BOE

Basis of Estimates

2010

State Specifications and Estimates Office
Estimating Systems Support Section

2010

FDOT Basis of Estimates

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Basis of Estimates

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Introduction
BASIS OF ESTIMATES MANUAL

I.1 PURPOSE

The ***Basis of Estimates Manual*** sets forth the standard methods of documenting design quantities, as well as selection criteria, for construction pay items for Florida Department of Transportation (FDOT) projects.

I.2 AUTHORITY

Sections 334.044(2), 20.23(3)(a), and 334.048(3), Florida Statutes (F.S.)

I.3 SCOPE

This procedure impacts anyone preparing construction plans or specifications for the Department.

I.4 GENERAL INFORMATION

Chapter 334 of the ***Florida Statutes***, as part of the ***Florida Transportation Code,*** establishes the responsibilities of the State, counties, and municipalities for the planning and development of the transportation systems serving the people of Florida, with the objective of assuring development of an integrated, balanced statewide system. The ***Code's*** purpose is to protect the safety and general welfare of the people of the State and to preserve and improve all transportation facilities in Florida. Under ***Sections 20.23(3)(a) and 334.048(3), F.S.***, the ***Code*** sets forth the powers and duties of the Department of Transportation including adopting rules, procedures and standards for the conduct of its business operations and the implementation of any provisions of law for which the Department is responsible.

I.5 DISTRIBUTION

This document is published online at http://www.dot.state.fl.us/specificationsoffice/ . Contacts, updates and registration information are available at the Basis of Estimates link on the above internet web page.

I.6 REGISTRATION

All users are encouraged to register online with the FDOT Project Management Contact Database located at http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.shtm . Registered users will receive e-mail notification of major updates and bulletins.

I.7 REVISIONS and UPDATES

Basis of Estimates holders are encouraged to submit comments and suggestions for changes to this manual to the State Specifications and Estimates Office. When ideas or suggestions are received, they will be reviewed by appropriate Design and/or Construction staff in a timely manner, and will be coordinated with other offices affected by the proposed change. Issues warranting immediate change will be made with the approval of the State Estimates Engineer in the form of an ***Estimates Bulletin***.

Estimates Bulletins will be posted online at
http://www.dot.state.fl.us/specificationsoffice/.

NOTE: ***Estimates Bulletins*** will remain effective until either:
a) an official manual revision is published, or
b) the Estimates Bulletin is made void.

The State Specifications and Estimates Office will coordinate proposed revisions or additions with affected offices within the Central Office. All new chapters and substantive revisions that result in policy change will be coordinated in accordance with the Forms and Procedures Office in accordance with ***Procedure No. 025-020-002, Standard Operating System***, and the Executive Committee for concurrence.

Basis of Estimates Coordinator,
FDOT State Specifications and Estimates Office
605 Suwannee St., MS 34
Tallahassee, FL 32399-0450
http://www.dot.state.fl.us/specificationsoffice/

Updates are posted online at least twice a year. Issues resulting in an ***Estimates Bulletin*** will be updated as approved by the State Estimates Engineer. Additions, minor issues, or corrections not requiring a bulletin will be updated as needed.

I.8 TRAINING

No training required. Optional training on the ***Basis of Estimates***, reports, and supporting computer systems is available through the Estimating Systems Support section of the State Specifications and Estimates Office.

I.9 FORMS

The Pay Item Request form is available online at
http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp
The use of this form is optional; refer to ***Chapter 6*** for complete information.

Revision History

This is the revision history for the ***Introduction***; revisions to ***Chapters 1-10*** are located at the end of each chapter. Revisions and history of individual pay items is available through the State Specifications and Estimates Office, care of the Basis of Estimates Coordinator.

12-9-09: Expanded ***Revisions and Updates*** to include a limitation on the lifespan of an ***Estimates Bulletin***.
10-30-09: Updated header dates for 2010 edition.
6-30-09: Removed draft watermark. Changed header date for publication.
11-14-08: Updated internet links to current addresses.
11-5-08: Updated formatting in accordance with Forms and Procedures Office's recommendations.
10-1-08: Updated header dates for 2009 edition. Forms- added note to indicate form is optional.

Chapter 1
Updates and Registration

1.1 Registration

All users of the Basis of Estimates (BOE) are encouraged to register with the Contact Database at http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm . Registration is free. Additional information about the contact database is available at the web page above.

1.2 Update notices

An e-mail message is sent to all registered users when **major** updates occur, normally twice a year.

Estimates Bulletins will be posted online for major pay item changes. E-mail messages will be sent when it is determined that an issue has a "significant impact" on a large number of projects. E-mail messages will only be sent with approval of the State Estimates Engineer.

Major changes and bulletins must be implemented according to the posted implementation schedule for the specific pay item(s). The implementation dates are scheduled to coordinate specifications, standards, and other design guidance.

Minor changes will be posted online, as needed. Note the revision date for the applicable file or chapter. A summary of minor changes will be posted online, with the major updates. Minor changes should be implemented in design, as early as practical.

1.3 Proposed Changes

Users are encouraged to submit comments and suggestions for changes to the BOE. All items will be reviewed by the BOE Coordinator, and processed as follows:

a) Pay item Issues: Refer to Chapter 6 for additional information.

b) Formatting Issues: Evaluated by the BOE Coordinator.

c) Other Content Issues: Evaluated by the BOE Coordinator and/or the responsible office.

Issues forwarded to the C-Team are processed as detailed in Chapter 6. Other issues requiring review will be discussed with the State Estimates Engineer, and processed as recommended.

1.4 Submitting Proposed Updates

To submit a comment or suggestion, send the appropriate information to the BOE Coordinator or State Estimates Engineer. Contact Information is listed in Chapter 5, and on the State Estimates Office's web pages.

Please include the complete pay item number (if applicable), a detailed explanation of the proposal, and contact information (if you would like a response).

1.5 Critical Dates for BOE Updates

In order to process changes in a timely manner, please submit proposed changes as early as possible. What may appear as a minor change for one office may result in major changes for another office. With assistance from the Coordination team, all issues will be resolved prior to announcement in an Estimates Bulletin or Summary of Major Changes.

The following dates are normal processing deadlines. Issues impacting a significant number of projects and/or dollar value may require longer or shorter processing times, as recommended by FDOT managers.

Deadline	**Annual Edition**	**Mid-Year Update**
Normal Implementation of issues*	July letting	January letting
Publication Date (approx 6-9 months prior to implementation)	October-January	April -June
Other affected specifications, manuals and/or handbooks**	varies	varies

*Issues with less than 6 months advance notice will normally be issued as a Bulletin, Mandatory, or other special announcement to registered users.
**Contact the responsible office for critical dates and update procedures. Specifications, manuals, and handbooks may take 6-18 months from start to implementation.

Chapter 1 Revision History

10-30-09: Updated header dates for 2010 edition.
10-19-2009: Removed cover letter reference; all major changes announced with a bulletin.
10-1-2008: Updated header dates for 2009 edition.

Chapter 2
Units of Measure

2.1 Abbreviations

Listed below are selected abbreviations used in the Basis of Estimates. For a more complete list of abbreviations, refer to Design Standards, Index No. 001.

AC	Acre
AS	Assembly*
BU	Bushel
CF	Cubic Foot
CO	Cleanout*
CY	Cubic Yard
DA	Day
DD	Dollars per Day
EA	Each
ED	Each Day
GA	Gallon
GK	Gross Kilometer
GM	Gross Mile
HA	Hectare
HR	Hour
KG	Kilogram
KL	Kiloliter
KM	Kilometer
LB	Pound
LF	Foot
LI	Liter
LO	Location
LS	Lump Sum
LU	Luminaire
M1	Meter
M2	Square Meter
M2	Square Meter
M3	Cubic Meter
MB	Board Measure/ Thousand Feet
MG	Thousand Gallons
MH	Man-hour**
MI	Mile
MO	Month
MT	Metric Ton
NK	Net Kilometer

NM	Net Mile
PA	Per Analysis*
PB	Per Building*
PI	Per Intersection*
PL	Plant*
PM	Per Mile*
PS	Per Set*
PW	Per Well*
SF	Square Foot
SY	Square Yard
TH	Therms
TN	Ton
YD	Yard

*Units which may be replaced with unit of Each (EA), upon pay item review
** Units may be replaced with Hour (HR), upon review.

2.2 ACCURACY

Unless otherwise indicated for a specific pay item, accuracy is recorded as follows:

Unit of Measure	Accuracy*
AC	1/10 of an acre
CF	1/10 of a cubic foot
CY	1/10 of a cubic yard
GM	1/1000 of a mile
MB	1/10 of a thousand foot board measure
NM	1/1000 of a mile
TN	1/10 of a Ton
Unit items	Unit quantity: each, assembly, location, set, intersection
Others	To the nearest whole number: pound, foot, square yard, gallon, day,

*Note: Calculations are performed with one additional significant figure, and then rounded to the above accuracy for measurement/payment.

2.3 CONVERSION FACTORS

Linear Measure
25.4 mm/in
0.03937 in/mm
0.3048 m/ft
3.2808 ft/m
0.9144 m/yd
1.0936 yd/m
1.609 km/mi
0.621 mi/km

Area Measure
9 ft^2/yd^2
0.836 m^2/yd^2
1.2 yd^2/m^2
0.40 ha/ac
4047 m^2/ac
2.477 ac/ha
43,560ft^2/ac
4840 yd^2/ac
640 ac/mi^2
0.386 mi^2/km^2
2.590 km^2/mi^2

Volume, Liquid Measure
1728 in^3/ft^3
0.028 m^3/ft^3
0.765 m^3/yd^3
27 ft^3/yd^3
0.2642 gal/l
3.785 l/gal

Force, Weight Measure
2.205 lb/kg
1.10 TN/MT
0.907 MT/TN (short ton)
2000 lb/ton (short ton)
1000 kg/MT

Additional items to be added upon request.

Chapter 2 Revision History

10-30-09: Updated header dates for 2010 edition.
1-28-09: Added 2.2 Accuracy. Renumbered 2.3 Conversion Factors.
10-1-2008: Updated header dates for 2009 edition.

Chapter 3

Alphabetical Index

3.1 General

The Alphabetical Index was created for reference purposes only, to assist users with locating the appropriate pay item(s). In some cases, the pay item description may vary slightly from “common use” descriptions. For example, Crash Cushions may also be known as Vehicular Impact Attenuators. The alphabetical index provides both pay item descriptions and common use descriptions.

When a pay item has become obsolete, due to specification, design standard, or other policy changes, the pay item description may remain in the BOE for up to one year, to assist users with locating replacement item(s). Note that inclusion of a pay item on the alphabetical index does not guarantee that the item is valid. Additional information may be available with the referenced pay item.

3.2 Applicability

Some pay items with similar descriptions have different requirements or applications. The specifications and/or standards should always be considered when selecting a pay item. For example, Junction Boxes are used for drainage, signals, lighting, and utility applications; looking at the first 3 digits of the pay items (representing the specification section number), users can quickly determine which item(s) may be applicable.

“If the specs don’t apply, the pay item doesn’t apply either.”

When there is a question regarding pay item usage, coordinate with the District Specifications and/or Estimates Office.

Chapter 3 Revision History

5-14-10: Restored Alphabetical Index. Created explanation text for chapter.
10-30-09: Updated header dates for 2010 edition.
10-1-08: Updated header dates for 2009 edition. Deleted “Alphabetical Index” chapter. Users, please use search/find, as needed.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN	462- 3-
ADVANCE WARNING ARROW PANEL	102- 76-
Aggregate Fill	120- 73-
ALUMINUM BULLET RAILINGS	460- 70- A
ALUMINUM LIGHT POLE, COMPLETE	715- 4A-BCC
ALUMINUM SIDEWALK FLOOR	507- 70-
ANALYSIS & DOCUMENTATION, INTERSECTION	604- 2-AAB
ANCHOR BAR, STEEL	455- 87-
Anchor Beams	400- 6-
ANCHOR BOLT REPLACEMENT	460-112-
ANTI-GRAFFITI COATING	563- A
Architectural Pavers	526- 1- A
Architectural Work (for Architectural Plans)	see 750 and 751 items
ARCHITECTURAL, ASBESTOS ABATEMENT	750-
ARCHITECTURAL, BUILDING	750- 1- AB
ARCHITECTURAL, ELECTRICAL/POWER	751- 2-
ARCHITECTURAL, HVAC	751- 6-
ARCHITECTURAL, LIGHTNING PROTECTION SYSTEM	751- 20- A
ARCHITECTURAL, PICNIC PAVILION	751- 30- A
ARCHITECTURAL, SANITARY SEWER/SEWAGE TREATMENT	751- 5-
ARCHITECTURAL, TELEPHONE/COMMUNICATION	751- 3-
ARCHITECTURAL, WATER/SEWER INTERIOR	751- 4-
ARMI- Asphalt Rubber Membrane Interlayer	341- 70-
Arrow Panel, Advance Warning	102- 76-
ARTERIAL ANALYSIS & DOCUMENTATION	604- 5- A
Articulating Block- Riprap	530- 78-
ARTIFICIAL COVERINGS FOR EROSION CONTROL	104- 1-
Asbestos Abatement (for Architectural Plans)	see 750 and 751 items
Asphalt Resistant Stripe	905-707- 1
ASPHALT RUBBER MEMBRANE INTERLAYER	341- 70-
ASPHALT TREATED PERMEABLE BASE	287- 1-
Asphalt, Milling	327- 70- AA
Asphalt, Miscellaneous	339- 1-
Asphalt, Superpave	334- 1- AA
ASPHALTIC CONCRETE CURB	525- 1-
ASPHALTIC CONCRETE FRICTION COURSE	337- 7- AA
Attenuator / Crash Cushion, Temporary	102- 89- A
ATTENUATOR MODULES- SAND FILLED	544- 76-
AUDIBLE STRIPE	906-701- AA
AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)	906-102- 1
AUTOMATIC WINDSHIELD WASHER	735- 89-
Back of Sidewald Drainage	430-963- AA
Bale, Synthetic	104- 10- 2
BALLAST ROCK	443- 71- A
BARRICADE TYPE III (TO REMAIN)	102- 98- A
Barricade, Temporary	102- 74- A
BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)	102-106- A
Barrier Wall Lights, Temp Wall	102- 79-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
Barrier Wall- Median	521- 1- A
Barrier Wall- Removal	521- 73-
Barrier Wall, Concrete	521- 72- AA
Barrier, Sound	534- 72-1AA
Base, Asphalt Treated Permeable	287- 1-
Base, Existing	220- 70- AA
Base, Shape	220- 1- AA
Basin, Sediment	104- 7-
BEAM REPAIR	450- 83- A
BEAM REPAIR	450- 82-
Beams, Prestressed	450- 1-AAA
Beams, Prestressed	450- 2-AAA
Bedding Material	125- 3-
BEDDING STONE	530- 74-
Bedding, Pipe	430-970-
BENCHES	721- 75- A
Bent Caps, End	400-113-
Bent Caps, Intermediate	400-114-
BICYCLE PARKING RACK	721- 77-
BOAT DOCK- FLOATING	764- 1-
BOAT DOCK- GANGWAY	764- 2-
BOLLARDS	519- 78-
Bolt, Anchor	460-112-
Bolts	460- 81- A
BONDED ASPHALT CONCRETE FRICTION COURSE	901-337- 8
BORROW EXCAVATION	120- 2- A
Box Culvert	410- 70-AAB
Box Culvert, Desilting	430-950-
Box girder Interior Lighting	715- 50-
BRIDGE APPROACH EXPANSION JOINT	370- 1-
BRIDGE DECK EXPANSION JOINT	458- 1- AB
Bridge Deck Grinding	400- 20-
BRIDGE DRAIN PIPE	506- 2-
BRIDGE DRAINS	506- 3-
Bridge Lights	510- 1- A
Bridge Operator	465- 21-
BRIDGE OPERATOR	102- 90-
Bridge Traffic Railing	521- 5- A
Bulkhead Panels	400- 72-
Bulkhead- Removal	110- 73-
Bumper Guards	542- 70-
BUMPER GUARDS, CONCRETE	542- 70-
BUMPING POST	827- 2-ABC
BUS BOARDING PAD- CONCRETE	522- 3-
BUS SHELTER PAD- CONCRETE	522- 4-
BUSINESS SIGN	102- 61-
Cabinet (Signals)	668- AB-
Cabinet- see ITS	785- 2- AB

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
Cable Barrier	540-
Cable Barrier- see High Tension Cable Barrier	904-540- A
CABLE- INTERCONNECT	632- 8-ABC
CABLE- SIGNAL	632- 6- A
CABLE- SIGNAL	632- 7- A
Cable, Adjust	634- 7-
Cable, Submarine	508- 73- A
Call Box- see Motorist Aid	714- 1-ABC
Camera, ITS CCTV	782- 1- AB
CASING SPACERS	730- 77- AA
Casing- Steel	730- 76-ABB
Casing, Drilled Shaft	455-107- AA
CAST IRON SOIL PIPE	430-150-ABB
CATHODIC PROTECTION	455- 81-ABB
CATHODIC PROTECTION- ELECTRICAL WORK	400- 60- A
CATHODIC PROTECTION INTEGRAL PILE JACKET	457- 2- AB
CATHODIC PROTECTION- PILE JACKET	457- 71- AB
CATHODIC PROTECTION SYSTEM	400-142- A
CEMENT CONCRETE PAVEMENT PLAIN	350- 1- AA
CEMENT CONCRETE PAVEMENT, REINFORCED	350- 2- AA
CEMENT TREATED PERMEABLE BASE	288-001-
Cement, Latex Modified	405- 70- A
CERAMIC PAVEMENT MARKERS	704- 1- AB
CHANGEABLE VARIABLE MESSAGE SIGN- TEMPORARY	102- 99-
CHANNEL EXCAVATION	120- 5-
CHEMICAL GROUT REPAIR - PIPE, NON-TEST	432- 3- A
CHEMICAL GROUT REPAIR- MANHOLE/INLET	433- 1-
CHEMICAL TREATMENT- POWDERED (For Erosion Control)	104- 19-
CLASS I CONCRETE	400- 1-AAA
CLASS II CONCRETE	400- 2-AAA
CLASS III CONCRETE	400- 3-AAA
CLASS IV CONCRETE	400- 4-AAA
CLASS V CONCRETE	400- 8-AAA
Clay Liner	514- 73-
CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT	350- 72-
CLEANING & SEALING EXISTING PIPE JOINT	430-82A- BB
CLEANING AND COATING CONCRETE SURFACES, CLASS 5	400-143-
CLEANING CONCRETE SURFACE	400-145- A
Clean-out Sediment Basin	104- 9-
CLEARING AND GRUBBING	110- 1- 1
CLEARING AND GRUBBING (FOR PUSH BUTTON CONTRACTS)	110- 2- 1
CLOSED CIRCUIT TELEVISION EQUIPMENT	686-ABB-
Coating Concrete	400-143-
COATING CONCRETE SURFACES	400- 97-
COATING EXISTING STRUCTURAL STEEL	561- 1-
Coating, Anti-Graffiti	563- A
COFFERDAM	400- 95- A
COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	102- 3-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
COMMERCIAL STABILIZING MATERIAL	160- 3-
COMPOSITE NEOPRENE PADS	400-147-
COMPOSITE SHEET PILING	906-455- 1
CONCRETE BARRIER WALL- REMOVAL	521- 73-
CONCRETE CORE DITCH BLOCKS	524- 3-
CONCRETE CURB	520- 2- AA
CONCRETE CURB AND GUTTER	520- 1- AA
CONCRETE CYLINDER PILES- FURNISHED & DRIVEN	455- 36- A
CONCRETE DITCH PAVEMENT (NON-REINFORCED)	524- 1- A
CONCRETE DITCH PAVEMENT (REINFORCED)	524- 1- AB
CONCRETE FOR JOINT REPAIR	400- 32-
CONCRETE GUTTER, SPECIAL	520- 4-
CONCRETE PARAPET	521- 6- A
CONCRETE PARAPET	521- 6- AB
Concrete Pavement	352- 70-
Concrete Pavement	175- 1-
Concrete Pavement	350- 1- AA
CONCRETE PAVEMENT SLAB REPLACEMENT	353- 70-
Concrete Pavement, Fiber Reinforced	908-350- A
Concrete Pavement, Removal	110- 4-
CONCRETE SHEET PILING	455- 14- AA
CONCRETE SIDEWALK, 4" THICK	522- 1-
CONCRETE SIDEWALK, 6" THICK	522- 2-
CONCRETE SLOPE PAVEMENT (NON-REINFORCED)	524- 2- A
CONCRETE SLOPE PAVEMENT (REINFORCED)	524- 2- AB
CONCRETE TRAFFIC RAILING- BRIDGE	521- 5- A
CONCRETE TRAFFIC SEPARATOR	520- 5- AB
Concrete, Class I	400- 1-AAA
Concrete, Class II	400- 2-AAA
Concrete, Class III	400- 3-AAA
Concrete, Class IV	400- 4-AAA
Concrete, Class V	400- 8-AAA
Concrete, Cleaning	400-145- A
Conductor, Lighting	715- 1- AB
CONDUIT & CABLING, REMOVE	690- 90-
CONDUIT- SIGNALS	630- 1- AB
Conduit, ITS	783- 4- AB
Conduit, Lighting	715- 2- AB
Construction, Turnout	286- 1-
Control House, Movable Bridge	512- 1- A
CONTROL STATION COMMUNICATION ASSEMBLY	714- 74-
CONTROLLER ACCESSORIES	678- 1-ABB
CONTROLLER ASSEMBLY- REMOVE	690- 50- A
Controller, Actuated Solid State	670- 5-ABC
Controller, Programmable	508- 77- A
CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION	455-111-
Coverings, Artificial- For Erosion Control	104- 1-
Crack Membrane	315- 1-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
Crack Relief Layer	340-
CRACKS, INJECT AND SEAL	400-135-
Cracks, Sealing	350- 78-
CRASH CUSHION -GATING, TEMPORARY	102- 81- 2
CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR	544- 75- AA
CRASH CUSHION, TEMPORARY	102- 89- A
CROSSHOLE SONIC LOGGING	455-142-
CROSSOVER	825-6AB-CDE
Curb	520- 2- AA
Curb, Asphaltic Concrete	525- 1-
DATA COLLECTION	604- 1- AB
Debris Removal, Underwater	110- 8- A
DEEP WELL CLEANING	444- 72- AA
DELINEATOR	705- 11- A
DELINEATOR, DOUBLE UNIT	705- 2-
DELINEATOR, SINGLE UNIT	705- 1-
DELINEATOR, TRIPLE UNIT	705- 3-
DELINEATOR, TUBULAR FLEXIBLE	705- 71-
DELIVERY OF SALVAGEABLE MATERIAL TO FDOT	110- 86-
Demolition, Water	110- 12- A
DERAIL	827- 1-ABC
DESIGN / BUILD	50- A-
DESILT PIPE	430- 94- AA
DESILTING CONCRETE BOX CULVERT	430-950-
DETECTABLE WARNING ON WALKING SURFACE- RETROFIT	527- 1-
DETECTOR CABINET (SIGNALS)	668- AB-
DETECTOR PEDESTRIAN ASSEMBLY, REMOVE	690- 70-
DETECTOR VEHICLE ASSEMBLY, REMOVE	690- 60-
Detector, Pedestrian	665- AB-
Detector, Temporary	102-107-
Detector, Vehicle	663- 72- A
DETECTORS VEHICLE- TREADLE FRAME	735- 86- A
Detour	102- 2- AA
DEWATERING FOR SPREAD FOOTINGS	400- 91-
DIGITAL INCLINOMETER	144- 73-
DIGITAL INCLINOMETER CASING	144- 1- A
Digital Video, ITS	784- 3- AB
Digital Video, ITS	784- 4- AB
DIRECTIONAL BORE	555- 1- A
DISPUTE REVIEW BOARD (DO NOT BID)	999- 20-
Ditch Pavement- Non Reinforced	524- 1- A
Ditch Pavement- Reinforced	524- 1- AB
Dock, Boat- Floating	764- 1-
Dock, Boat- Gangway	764- 2-
Drainage- Bridge Drain Pipe	506- 2-
DRAINAGE MATERIALS	908-430- A
DRAINAGE STRUCTURE- MODIFY EXISTING	425- 11-
Drainage Structure, Modify	425- 11-

Lower case items: see referenced pay item for current pay item description.
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Description	***for more information, refer to Pay Item Number and/or specifications***
DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST	425- 8-
Draincrete	446- 1- A
Drains	425- 10-
Drains, Bridge	506- 3-
DRILLED SHAFT	455- 88- AA
DRILLED SHAFT CASING	455-107- AA
DRILLED SHAFT TIP GROUTING	455- 89- AA
Drilled Shafts- Thermal Integrity Testing	455- 93-
DRILLING HOLES FOR PRESSURE GROUTING	173- 71-
Driveway Material	102- 3-
EDC	455-146-
EDGEDRAIN DRAINCRETE	446- 1- A
EDGEDRAIN OUTLET PIPE	446- 71- A
ELECTRIC POWERED SIGN	700- 89- AA
Electrical Power- ITS only	780- 1- AB
ELECTRICAL POWER SERVICE (SIGNALS)	639- 1- AB
Electrical Work/Power	see Architectural, Utilities, Signals, etc.
Electrical, Mov Bridge	508- 4-
ELECTRONIC UTILITY DESIGNATE	737- 71- A
EMBANKMENT	120- 6-
Embankment	120- 74-
EMBEDDED DATA COLLECTOR	455-146-
EMERGENCY GENERATOR (SIGNALS)	639- 4- A
END ANCHORAGE ASSEM	E536-
EPOXY CONCRETE OVERLAY	400-136-
EPOXY MATERIAL FOR CRACK INJECTION	411- 1-
EPOXY MATERIAL- STRUCTURES REHAB	400-134-
Equipment Shelter, ITS only	785- 3-ABC
Erosion Control	908-104- 1
Ethernet Hub- see ITS	784- 5- AB
Excavation	120- 71-
Excavation	120- 3-
Excavation- Channel	120- 5-
EXCAVATION FOR STRUCTURES	125- 1-
Excavation, Borrow	120- 2- A
Excavation, Regular	120- 1-
EXISTING SIGN	700- 46- AB
Expansion Joint (Bridge Deck)	458- 1- AB
Expansion Joint, Bridge Approach	370- 1-
EXPOSED AGGREGATE TOPPING- SIDEWALK	522- 73-
FENCE GATE	550- 60-ABC
Fence, Sand	104- 17-
Fence, Silt	104- 13- A
FENCING	550- 10-ABC
Fender System	110- 71- 1
FENDER SYSTEM, PLASTIC MARINE LUMBER	471- 1- A
FIBER OPTIC AERIAL SPLICE ENCLOSURE	906-633- 1

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Description	***for more information, refer to Pay Item Number and/or specifications***
Fiber Optic Cable (for Signals)	633-ABC- D
Fiber Optic Cable, ITS	783- 1-ABC
Fiber Optic Connection Hardware, ITS	783- 3- AB
Fiber Optic Connections, ITS	783- 2- AB
FIBER REINFORCED CONCRETE PAVEMENT	908-350- A
FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES	455- 37- A
Field Cabinet- see ITS	785- 2-ABC
FIELD OFFICE	109- 71- A
Fill, Flowable	121- 70-
Fill, Gravel	120- 72-
Fill, Sand	142- 70-
FILTER FABRIC, PLASTIC	514- 71- A
FIRE HYDRANT	1644-ABC-DEE
FIRE SUPPRESSION SYSTEM	505- 1- AB
Flagger Device- see Automated Flagger	906-102- 1
FLAP GATES	430-880- AA
FLARED END SECTION	430-200-ABB
FLASHING BEACON CONTROLLER ASSEMBLY	670- 4- A
FLOATING MANHOLE FRAME AND COVER SYSTEM	910-425- 1
FLOATING TURBIDITY BARRIER	104- 11- A
FLOWABLE FILL	121- 70-
Frangible Base- Light Pole	715- 36- AB
FRENCH DRAIN	443- 70- AA
Friction Course	337- 7- AA
Friction Course- Bonded Asphalt	901-337- 8
FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE	906-334- 1
Functional Checkout, Mov Bridge	465- 71- A
GABION BASKET	530- 77- A
GABION MAT	530- 76- A
Gate, Bridge	508- 2- A
Gate, Fence	550- 60-ABC
Gates, Flap (Drainage)	430-880- AA
Generator, Mov Bridge	508- 72- A
Generator, Signals	639- 4- A
Generic Items	0000-600-AAA
GEOSYNTHETIC CLAY LINER	514- 73-
GEOSYNTHETIC REINFORCED SOIL SLOPES	145- 1-
GLARE SCREEN	539- 75-ABC
GLARE SCREEN	102- 94- AB
GRADE CROSSING	830-1AB-CDE
GRANITE CURB	520- 7- A
GRASSING COMPLETE	900-576- 1
GRATE, REPLACE	425- 82-
GRAVEL FILL	120- 72-
Grid, Reinforcement	145- 71-
Grid, Reinforcement	145- 71- A
GRINDING BRIDGE DECK- REHABILITATION ONLY	400- 20-
GRINDING CONCRETE PAVEMENT	352- 70-

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Description	*for more information, refer to Pay Item Number and/or specifications*
Grooving and Planing, Bridge Deck 8.5" or greater	400- 9-
Grooving and Planing, Bridge Deck- less than 8.5"	400- 7-
GROUP RELAMPING (LIGHTING)	715- 30- AA
Grout	400-153-
GROUT PIPE INSTALLATION	173- 76-
Grout, Chemical Repair- Manhole/Inlet	433- 1-
Grout, Chemical Repair- Pipe	432- 3- A
GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)	400-128-
Grubbing: see Clearing and Grubbing	110- 1- 1
GUARDRAIL	536- 1- AA
GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL	536- 82-
GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY	536- 8- A
GUARDRAIL END ANCHORAGE ASSEMBLY	536- 85- AA
GUARDRAIL POST REPLACEMENT	536- 83- A
GUARDRAIL POST, SPECIAL	536- 7-
GUARDRAIL POSTS- SPECIAL LENGTH	536- 76-
GUARDRAIL REMOVAL	536- 73-
GUARDRAIL- RESET	538- 1-
GUARDRAIL- SHOP BENT PANELS	536- 2-
Guardrail, Retrofit	536- 4- A
Guardrail, Temporary	102- 73-
Guiderail, Pipe Handrail	515- 1- A
Gutter, Concrete	520- 4-
Gutter: see Curb and Gutter	520- 1- AA
HIGH FRICTION SURFACE COURSE	908-333- 1
HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B	102- 77-
HIGH MAST LIGHT POLE, COMPLETE	715-19A-BBB
HIGH MAST LIGHT POLE, COMPLETE	715- 19-ABC
High Mast Lighting	715-19A-BBB
HIGH TENSION CABLE BARRIER SYSTEM	904-540- A
HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS	540-
HURRICANE REPAIRS- LIGHTING	999-715- A
HVAC- Architectural only	751- 6-
Hydrant (Utilities)	1644-ABC-DEE
HYDRODEMOLITION	110- 12- A
Inclinometer	144- 1- A
Inclinometer	144- 73-
INITIAL CONTINGENCY AMOUNT (DO NOT BID)	999- 25-
Inject & Seal Cracks	400-135-
INJECT AND SEAL CRACK	411- 2-
INLET- ADJUST	425- 4-
INLET CAP, PRECAST	425- 78-
INLET PROTECTION SYSTEM	104- 18-
Inlet, Adjust	425- 4-
INLETS	425- 1-AAB
INLETS RELOCATION	425- 71-
INSTRUMENTATION AND DATA COLLECTION	455-129- A
INSULATED JOINTS	836-1AB-CDE

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Description	*for more information, refer to Pay Item Number and/or specifications*
INTEGRAL PILE JACKET	457- 70-ABB
Integral Pile Jacket	457- 2- AB
Interconnect Cable	632- 8-ABC
INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM	906-609-100
INTERNALLY ILLUMINATED SIGN	699- 1- AB
INTERSECTION ANALYSIS & DOCUMENTATION	604- 4-
Intersection Analysis and Documentation	604- 2-AAB
INVERTED PROFILE MARKINGS	906-702- AA
Inverted Rib Pavement Markings	702-???
Inverted Rib Pavement Markings	702- 1A-BCD
IRRIGATION SYSTEM	590- 70-
ITS CABINET	785- 2- AB
ITS CCTV CAMERA	782- 1- AB
ITS CONDUIT	783- 4- AB
ITS DEVICE SERVER	784- 2- A
ITS DIGITAL VIDEO DECODER	784- 4- AB
ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER	784- 3- AB
ITS DYNAMIC MESSAGE SIGN	781- 1A-BCD
ITS ELECTRICAL POWER	780- 1- AB
ITS EQUIPMENT SHELTER	785- 3- AB
ITS EQUIPMENT SHELTER	785- 3-ABC
ITS FIBER OPTIC CABLE	783- 1-ABC
ITS FIBER OPTIC CONNECTION	783- 2- AB
ITS FIBER OPTIC CONNECTION HARDWARE	783- 3- AB
ITS FIELD CABINET	785- 2-ABC
ITS HIGHWAY ADVISORY RADIO	781- 2- AB
ITS MANAGED FIELD ETHERNET SWITCH	784- 1- A
ITS MANAGER ETHERNET HUB SWITCH	784- 5- AB
ITS MULTI-CONDUCTOR COMMUNICATION CABLE	783- 8- A
ITS POLE	785- 1- AB
ITS PULL AND JUNCTION BOX	783- 7- A
ITS PULL BOX FOR FIBER OPTIC	783- 5- A
ITS REST AREA INFORMATION SYSTEMS	782- 3- A
ITS ROAD WEATHER INFORMATION SYSTEM	781- 3-ABC
ITS SPLICE BOX FOR FIBER OPTIC	783- 6- A
ITS VEHICLE DETECTION SYSTEM	786- 1- AB
ITS VIDEO DISPLAY	782- 2-ABC
ITS WIRELESS COMMUNICATION DEVICE	784- 6- AB
JACK AND BORE	556- 1- A
Joint Repair- Structures	400- 32-
Joints, Cleaning & Resealing	350- 72-
JUNCTION BOX (DRAINAGE)	425- 3-AAB
LADDERS & PLATFORMS	460- 6-
LANDSCAPE COMPLETE	580- 1- A
LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM	0000-600-AAA
LANE RENTAL DAYS (TIME BID)	999- 5-
LATERAL DITCH EXCAVATION	120- 3-
LATEX MODIFIED PORTLAND CEMENT CONCRETE	405- 70- A

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Description	***for more information, refer to Pay Item Number and/or specifications***
Lift Station (Utilities work only)	1501- 1-
LIGHT POLE (FURNISH NEW POLE)	715- 34- A
LIGHT POLE CABLE DISTRIBUTION SYSTEM	715-500- A
LIGHT POLE COMPLETE	715- 4-ABC
LIGHT POLE COMPLETE, SPECIAL DESIGN	715-5AB-CDD
LIGHT POLE FOUNDATION	715- 10- A
LIGHT POLE FRANGIBLE BASE	715- 36- AB
Light, High Intensity	102- 77-
LIGHTED OVERHEAD TRUSS CANTILEVER SIGN	700- 45- AB
LIGHTED OVERHEAD TRUSS SPAN SIGN	700- 44-AAB
LIGHTING - ROUTINE MAINTENANCE	715- 31- AA
Lighting (Hurricane Repairs)	999-715- A
LIGHTING- CONDUCTORS	715- 1- AB
LIGHTING CONDUIT	715- 2- AB
LIGHTING- HURRICANE REPAIRS	907-715-AAA
LIGHTING- INSIDE BOX GIRDER	715- 50-
LIGHTING- PULL BOX	715- 14- AB
LIGHTING- SCHEDULED CLEANING	715- 20- A
LIGHTING- SURGE PROTECTOR	715- 19- A
LIGHTING- TRNSFORMER FOR SPECIAL LIGHTING	715- 51-
Lightning Protection- Architectural only	751- 20- A
LIGHTWEIGHT AGGREGATE FILL	120- 73-
Limerock	210- 2-
Limerock Base	210- 1- AA
LIMEROCK MATERIAL	230- 2-
LIMEROCK, NEW MATERIAL	210- 2-
LINE & SURFACE	825-4AB- C
LINER IMPERMEABLE PVC	514- 72-
Liner, Pipe	431- 1- A
LITTER REMOVAL AND DISPOSAL	107- 1-
LOAD CENTER	715- 7- AB
LOAD TEST- DYNAMIC	455-137-
LOAD TEST- OSTERBERG	455-101- A
LOAD TEST- STATIC	455-119-ABB
LOAD TEST- STATNAMIC	455-103-ABB
LOOP ASSEMBLY	660- 2-ABB
LOOP DETECTOR, INDUCTIVE	660- 1-ABB
LUMINAIRE	715- 11-ABC
LUMINAIRE & BRACKET ARM	715- 5- AB
LUMINAIRE STARTER BOARD	715- 21- 1
LUMP SUM CONTRACT (ALTERNATIVE BIDDING)	999- 2-
MAILBOX - FURNISH AND INSTALL	110- 7- A
MAINTENANCE OF TRAFFIC	102- 1-
MANHOLES	425- 2-AAB
MANHOLES- ADJUST	425- 5- A
MANHOLES AND INLETS, CLEANING & SEALING	425- 74- A
MARKER PAVEMENT RETRO-REFLECTIVE	706- 3-
MAST ARM	715- 35- A

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Description	*for more information, refer to Pay Item Number and/or specifications*
MAST ARM ASSEMBLY	649-ABC-DEE
MEDIAN CONCRETE BARRIER WALL	521- 1- A
METAL TRAFFIC RAILING	460- 71- A
METHACRYLATE MONOMER	413-151-
Microsurfacing	909-335- A
MICRO-SURFACING FOR PAVEMENT PRESERVATION	909-335- A
MILLING EXISTING ASPHALT PAVEMENT	327- 70- AA
MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL	455- 39- A
MISCELLANEOUS ASPHALT PAVEMENT	339- 1-
MITERED END SECTION	430-98A-BCC
MITERED END SECTION, REPLACE GRATE	430-990-
MOBILIZATION	101- 1-
Modem	747- 70- AB
MONOTUBE ASSEMBLIES, STEEL	649- 1A-BBB
Motor, Span	508- 76- A
MOTORIST AID CALL BOX	714- 1-ABC
MOTORIST AID COMPONENTS (F&I) CONSOLE	714- 3- AB
MOTORIST AID CONSOLE	714- 2- A
MOTORIST AID MICROWAVE	714- 75-ABB
MOTORIST AID MICROWAVE COMMUNICATION SHELTER	714- 8- A
MOTORIST AID MICROWAVE COMPONENT	714- 4-ABB
MOTORIST AID MICROWAVE TOWER	714- 5-ABB
MOTORIST AID TECHNICAL SUPPORT	714- 9- A
MOTORIST AID TRANSMISSION LINES	714- 7- A
MOTORIST INFORMATION SIGN	700- 95-
Movable Bridge	see 465 and 508 items
MOVABLE BRIDGE- CONTROL HOUSE	512- 1- A
MOVABLE BRIDGE COUNTERWEIGHT	465- 3- AB
MOVABLE BRIDGE ELECTRICAL EQUIPMENT	508- 1- A
MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB	508- 4-
MOVABLE BRIDGE EMERGENCY GENERATOR	508- 72- A
MOVABLE BRIDGE FUNCTIONAL CHECKOUT	465- 71- A
MOVABLE BRIDGE GATE	508- 2- A
MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB	465- 2-ABB
MOVABLE BRIDGE- MECHANICAL EQUIPMENT	465- 1-
MOVABLE BRIDGE OPERATOR	465- 21-
MOVABLE BRIDGE PLUMBING SYSTEM	512- 71- A
MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE	465- 20-
MOVABLE BRIDGE REHAB- BRAKE SYSTEM	508- 80- A
MOVABLE BRIDGE REHAB- CONTROL CONSOLE	508- 79- A
MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM	508- 83-ABB
MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS	508- 76- A
MOVABLE BRIDGE SIGNAL	508- 3- A
MOVABLE BRIDGE SPAN JACKING	465- 4-
Mowing	107- 2-
MOWING	104- 4-
MOWING	107- 2-
Mowing	107- 1-

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Description	***for more information, refer to Pay Item Number and/or specifications***
MULTI ROTATIONAL BEARING ASSEMBLY	461-113- AB
MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION	461-114- AB
MULTI-POST SIGN	700- 21- AB
NATURAL DISASTER/PRE-EVENT CONTRACTS	129- 1-AAA
NAVIGATION LIGHTS- FIXED BRIDGE	510- 1- A
NEOPRENE PAD REPLACEMENT	400-140- A
No Track Thermo	904-711-ABC
NON SHRINK GROUT- MISCELLANEOUS	400-153-
OBJECT MARKER	705- 10- AB
OBJECT MARKER	705- 10- A
Office	109- 71- A
Officer (for moving operations)	102- 14-
OPAQUE VISUAL BARRIER	539- 80-ABC
OPEN GRADED CRACK RELIEF LAYER	340-
OPEN GRADED CRACK RELIEF LAYER	906-340-1
Operator, Bridge	102- 90-
OPTIONAL BASE	285-7AA-
Optional Pipe	430-17A-BCC
Outlet pipe	440- 73- A
Outlet Pipe, Edgedrain	446- 71- A
OVERHEAD SIGN- BRIDGE MOUNTED	700- 83-
OVERHEAD SIGN- SPAN WIRE MOUNTED	700- 82-
OVERHEAD TRUSS CANTILEVER SIGN	700- 43- AB
OVERHEAD TRUSS CANTILEVER SIGN	700- 23-ABC
OVERHEAD TRUSS SPAN SIGN	700- 42-AAB
OVERHEAD TRUSS SPAN SIGN	700- 22-ABC
Overlay, Epoxy	400-136-
Pad Replacement	400-140- A
Pads, Neoprene	400-147-
Paint- Traffic Markings	710- 1A-BCD
PAINTED PAVEMENT MARKINGS	710- 1A-BCD
PAINTED PAVEMENT MARKINGS- FINAL SURFACE	710- 90-
PAINTING STRUCTURAL STEEL- CABLES	906-560- 1
PAINTING STRUCTURAL STEEL- REHAB	560- 1-
Parapet	521- 6- AB
Parapet	521- 6- A
PARTNERING (DO NOT BID)	999- 16-
PASSENGER SHELTER- ALUMINUM, PREFABRICATED	721- 70- AB
Patrol- Emergency Service/Roadside Repairs	102- 11-
PATTERNED / TEXTURED PAVEMENT	523- 1- A
Pavement Marker, Ceramic	704- 1- AB
PAVEMENT MARKING- PREFORMED TAPE	713-1AA-BCD
PAVEMENT MARKING REMOVABLE- WHITE/BLACK	102-911- A
PAVEMENT MARKING REMOVABLE- YELLOW	102-912- A
Pavement Markings- Thermoplastic	711- 1A-BCD
Pavement, Concrete	350- 2- AA
PAVERS, ARCHITECTURAL	526- 1- A
PEDESTRIAN DETECTOR	665- AB-

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Description	***for more information, refer to Pay Item Number and/or specifications***
PEDESTRIAN PLAZA	721- 80-
PEDESTRIAN/BICYCLE RAILING	515- 2-ABB
PENETRANT SEALER	413-149-
PERFORMANCE TURF	570- 1- A
PERIMETER WALL	534- 73-
Permeable Base	288-001-
PHOTO ELECTRIC CONTROL ASSEMBLY	715- 37- A
Picnic Pavilion	751- 30- A
Piezometer	144- 71-
Piezometer	144- 72-
PILE- AUGER GROUTED	455-112- A
Pile Jacket	457- 1- AB
Pile Jacket	457- 70-ABB
PILE POINT PROTECTION	455-120- A
Pile Wrap	455- 76-
Pile, Auger Grouted	455-112- A
Piles	455-143- AA
Piles, Concrete	455- 36- A
PILES, POLYETHYLENE SHEETING	459- 71-
Piling	455- 34- AA
Piling	455- 14- AA
PILING- PRESTRESSED	999-455- AB
PILING, STEEL	455- 35- AA
PIPE CULVERT OPTIONAL MATERIAL	430-17A-BCC
PIPE FILLING AND PLUGGING	430-830-
PIPE HANDRAIL- GUIDERAIL	515- 1- A
PIPE HANGER	460- 98- A
PIPE LINER- SECTIONAL REPAIR	908-431- A
PIPE LINER, OPTIONAL MATERIAL	431- 1- A
Pipe, Cast Iron Soil	430-150-ABB
Pipe, Cleaning & Sealing Existing Joint	430-82A- BB
PIPE, SLOTTED OR PERFORATED CULVERT	430-72A-BCC
PLASTIC CELLULAR CONFINEMENT SYSTEM	530- 79-
PLASTIC EROSION MAT	571- 1- AB
Plastic Lumber	471- 1- A
Plastic Piles, Fender System	455- 37- A
PLATFORM, REMOTE OBSERVATION	455-132-
PLATFORM, WORKING SERVICE	455-131-
Plugging Pipe	430-830-
PLUGGING WATER WELL- ARTESIAN	110- 5-
PLUGGING WATER WELL- NON-ARTESIAN	110- 6-
Plumbing, Mov Bridge	512- 71- A
POLE REMOVAL- DEEP	690- 33- A
POLE REMOVAL- SHALLOW	690- 32- A
Pole, ITS	785- 1- AB
Pole, Lighting	715- 4A-BCC
Poles	641- AB-CDD
PORE-PRESSURE TRANSDUCER (PIEZOMETER)	144- 71-

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Description	*for more information, refer to Pay Item Number and/or specifications*
PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT	144- 74-
PORTABLE REGULATORY SIGN	102-150- 1
Poser Service (Signals)	639- 1- AB
POST TENSIONING REPAIR	462- 20- A
POST TENSIONING TENDONS	462- 2- AA
Post- Tensioning, Segmental Box Span	462- 3-
Posttensioned Slab	450- 88- AA
PRECAST ANCHOR BEAMS	400- 6-
PRECAST BENT CAPS (END)	400-113-
PRECAST BENT CAPS (INT)	400-114-
PRECAST BULKHEAD PANELS	400- 72-
PRECAST CONCRETE BOX CULVERT	410- 70-AAB
PRECAST SEGMENT PRODUCTION	452- 70-
PRECAST THREE SIDED CULVERT	407- 1- AB
PREDESIGNED STABILIZED SUBGRADE	161-
PREPARED SOIL LAYER	162- 1- AB
PRE-PASS SENSOR	770- 75- A
Pressure Grouting	173- 71-
PRESSURE GROUTING- SUBSURFACE	173- 77- A
PRESTRESSED BEAM (FLORIDA U-BEAM)	450- 4-AAA
PRESTRESSED BEAMS	450- 1-AAA
PRESTRESSED BEAMS: FLORIDA-I BEAM	450- 2-AAA
PRESTRESSED CONCRETE PILING	455- 34- AA
PRESTRESSED CONCRETE POLES	641- 2- AB
PRESTRESSED CONCRETE POLES	641- AB-CDD
PRESTRESSED PAVEMENT	450- 5-
PRESTRESSED SLAB UNITS	450- 3- AB
PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED	450- 88- AA
PRESTRESSED SOIL ANCHOR	451- 70- AA
Preventative Maintenance, Mov Bridge	465- 20-
PROTECTION OF EXISTING STRUCTURES	455- 18-
Protection, Cathodic	400-142- A
PROTECTIVE PIPE BEDDING	430-970-
Pull & Junction- ITS only	783- 7- A
Pull and Splice Box, ITS	783- 5- A
Pull and Splice Box, ITS	783- 6- A
PUMPING STATION	448- 73-
PUMPING SYSTEM	730- 88-
PVC Liner	514- 72-
PVC PIPE FOR BACK OF SIDEWALK DRAINAGE	430-963- AA
QUICK DISCONNECT PLUG	715- 26- A
Quickchange Movable Barrier Wall	102-106- A
Rack, Bicycle Parking	721- 77-
RADAR SPEED DISPLAY UNIT	700- 94-
RADAR SPEED DISPLAY UNIT	102-150- 2
Radio, ITS Advisory	781- 2- AB
Railing	460- 71- A
Railing, Pedestrian/Bicycle	515- 2-ABB

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Description	***for more information, refer to Pay Item Number and/or specifications***
Railings, Aluminum Bullet	460- 70- A
Railroad (see 800s)	823- 1A-BBB
RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1)	736- 75-
RAILROAD TRACK WORK	736- 73- 1
RAILROAD TURNOUT AND CROSSOVER	736- 74- A
RAISED RIB SHOULDER WARNING DEVICE	701- 1- A
Reef Material, Transport	110- 84-
REGULAR EXCAVATION	120- 1-
REGULAR EXCAVATION (3R PROJECTS ONLY)	120- 71-
REINFORCED ASPHALT PAVEMENT OVERLAY	906-313- A
Reinforced Foundation	145- 2-
Reinforced Soil	145- 1-
REINFORCEMENT GRID	145- 71- A
REINFORCEMENT GRID FOR SOIL STABILIZATION	145- 71-
REINFORCING STEEL	415- 1- A
REINFORCING STEEL- STAINLESS	415- 2- A
RELAY STATION COMMUNICATION ASSEMBLY	714- 73-
Relocate Inlets	425- 71-
Removable Pavement Marking- White/Black	102-911- A
Removable Pavement Marking- Yellow	102-912- A
REMOVAL OF EXISTING CONCRETE PAVEMENT	110- 4-
REMOVAL OF EXISTING STRUCTURES	110- 3-
REMOVE EXISTING BULKHEAD	110- 73-
Repair Beam	450- 82-
Repair Beam	450- 83- A
RESEAT CONCRETE PAVEMENT	175- 1-
Rest Area Info Sys- ITS	782- 3- A
RESTORE SPALLED AREAS	401- 70- A
RETAINING WALL SYSTEM	548- AA-
RETROFIT EXISTING GUARDRAIL	536- 4- A
REWORKING LIMEROCK BASE	210- 1- AA
RIPRAP- ARTICULATING BLOCK	530- 78-
RIPRAP- RUBBLE	530- 3- A
RIPRAP- SAND - CEMENT	530- 1-
RIPRAP, FABRIC-FORMED CONCRETE	547- 70- A
RIVET / HIGH STRENGTH BOLT REPLACEMENT	460- 81- A
ROCK BAG	104- 16-
Rock, Ballast	443- 71- A
RPM	706- 3-
RPM, Temporary	102- 78-
Rumble Strip Sets	102-910-
RUMBLE STRIP SETS	546- 71-
RUMBLE STRIPS	546- 72- AB
Rumble Strips, Temporary	906-546- 1
Salvageable Material	110- 86-
Sand Barrel: see Attenuator Module, Sand Filled	544- 76-
SAND FENCE	104- 17-
SAND FILL	142- 70-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
SANDBAGGING	104- 5-
Sandwich Plate, Steel	460- 13- A
SCALE FOUNDATION	775- 72-
SCALE PIT STRUCTURES	775- 70-
Screen, Glare	102- 94- AB
Sealer, Penetrant	413-149-
SEDIMENT AND EROSION CONTROL	908-104- 1
SEDIMENT BARRIER	104- 10- 3
SEDIMENT BASIN	104- 7-
SEDIMENT BASIN CLEANOUT	104- 9-
Segmental Production	452- 70-
SELECT BEDDING MATERIAL	125- 3-
Server, ITS Device	784- 2- A
SERVICE PATROL	102- 11-
SERVICE PLAZA RENOVATION	735- 80-
SETTLEMENT PLATE ASSEMBLY	141- 70-
SEWAGE AND WATER MODIFICATIONS	735- 79-
Shaft Excavation	455-122- AA
SHAPE & COMPACT BASE	220- 1- AA
SHAPE & COMPACT EXISTING BASE	220- 70- AA
Sheet Piling	906-455- 1
SHEET PILING, STEEL	455-133- A
Shelter	721- 70- AB
SHOULDER CONCRETE BARRIER WALL	521- 72- AA
SHOULDER GUTTER, CONCRETE	520- 6-
Sidewalk	522- 1-
Sidewalk Floor, Aluminum	507- 70-
SIDEWALK FLOOR, STEEL - REHAB	504- 2-
SIGN PANEL	700- 48- AB
Sign, Bridge Mounted	700- 83-
SIGN, FLASHING BEACON	700- 90- AB
Sign, Internally Illuminated	699- 1- AB
Sign, ITS Dynamic Message	781- 1A-BCD
SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED	700- 70-
SIGN, MULTI-POST	700- 41- AA
Sign, Portable Regulatory	102-150- 1
SIGN, SINGLE POST	700- 40- A
Sign, Span Wire	700- 82-
Sign, Variable/Changeable, Temporary	102- 99-
Signal Cable	632- 6- A
SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	690-100-
SIGNAL HEAD AUXILIARIES	659-ABB-
SIGNAL INTERCONNECT CABLE, REMOVE	690- 91-
SIGNAL PEDESTAL- REMOVE	690- 31-
SIGNAL PEDESTRIAN ASSEMBLY, REMOVE	690- 20-
Signal, Mov Bridge	508- 3- A
SIGNAL, PEDESTRIAN	653-ABC-
Signal, Pedestrian	653-ABC-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	*for more information, refer to Pay Item Number and/or specifications*
Signal, Temporary Traffic Control	102-104- A
Signal, Traffic	650- 5A-BCD
SIGNALS- CABLE, ADJUST	634- 7-
SIGNALS- ELECTRICAL SERVICE DISCONNECT	639- 3- AB
SIGNALS- ELECTRICAL SERVICE WIRE	639- 2- A
SIGNALS- FIBER OPTIC CABLE	633-ABC- D
SIGNALS- FIBERGLASS INSULATOR	634- 5- A
SIGNALS- MESSENGER WIRE	634- 6- A
SIGNALS- PULL & JUNCTION BOXES	635- 1- AB
SIGNALS- SPAN WIRE ASSEMBLY	634- 4-ABC
SIGNALS TRUSS, SPECIAL	908-648- A
Signs (see 700s)	700- 20- AB
Signs, Business	102- 61-
Signs, Work Zone	102- 60-
SINGLE POST SIGN	700- 20- AB
Slab Replacement: see Concrete Pavement	353- 70-
Slope Drain, Temp	104- 6-
Slope Pavement	524- 2- A
Soil Anchor, Prestressed	451- 70- AA
Soil Improvement by Stone Columns	173- 79-
Soil Improvement by Vibro-Compaction	173- 78-
Soil Layer	162- 1- AB
SOIL TRACKING PREVENTION DEVICE	104- 15-
Sonic Logging	455-142-
SOUND BARRIERS- INCLUDING FOUNDATION	534- 72-1AA
Spalled Areas	401- 70- A
Span Jacking	465- 4-
SPAN WIRE ASSEMBLY REMOVE	690- 80-
SPECIAL DETOUR	102- 2- AA
SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)	999-102- A
Speed Display, Radar	102-150- 2
Spread Footing	400- 91-
STABILIZATION, TYPE "B"	160- 4-
STABILIZED SUBBASE	160- 6-
STABILIZED SUBBASE	180- 70-
STABILIZED SUBBASE, 6"	180- 72-
Stabilizing Matierla	160- 3-
Stainless Steel	415- 2- A
STAKED SILT FENCE	104- 13- A
STAKED TURBIDITY BARRIER	104- 12- A
STANDARD INTEGRAL PILE JACKET	457- 1- AB
STATIC/WEIGH-IN-MOTION SCALE SYSTEM	770- 78-
Steel	460- 1- AA
STEEL CASING, OPEN TRENCH	730- 76-ABB
Steel Floor	504- 1- AA
STEEL MAST ARM ASSEMBLY	649- 3A-BCC
Steel Piling	455- 35- AA
Steel Repair	460- 95-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
STEEL ROADWAY FLOOR	504- 1- AA
Steel Strain Pole	649- 1- AB
STEEL STRAIN POLES	649- 1- AB
Steel, Reinf.	415- 1- A
Stone, Bedding	530- 74-
STORM SEWER TRENCH	430-860- A
STRAIN POLES, GUYING, CONCRETE	641- 1-
STRAIN POLES, GUYING, WOOD	643- 1-
STRAIN POLES, STEEL	649- A-BCC
STRAIN POLES, WOOD	643-ABB-
STRESS ABSORBING MEMBRANE	315- 1-
Stripe, Audible	906-701- AA
STRIPING & MARKING- ASPHALT RESISTANT	905-707- 1
STRUCTURAL PLATE PIPE CULVERT	435- 1- AB
STRUCTURAL STEEL- NEW/WIDENING	460- 2- AA
STRUCTURAL STEEL- REHAB	460- 1- AA
STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM	460- 13- A
STRUCTURAL STEEL REPAIR	460- 95-
STRUCTURAL TIMBER- REMOVAL & DISPOSAL	110- 82-
Structures	110- 3-
Structures Rehab, Epoxy	400-134-
Structures, Protection of Existing	455- 18-
SUBBALLAST	823- 1A-BBB
Subbase	180- 70-
Subbase	180- 72-
SUBMARINE CABLE ASSEMBLY	508- 73- A
Subsoil	120- 4-
SUBSOIL EXCAVATION	120- 4-
SUPERPAVE ASPHALTIC CONCRETE	334- 1- AA
SURCHARGE EMBANKMENT	120- 74-
Switch, ITS Manage Field Ethernet	784- 1- A
Switches, Limit	508- 78- A
SYNTHETIC BALE	104- 10- 2
SYNTHETIC SUBSURFACE DRAINAGE LAYER	904-439- A
SYSTEM AUXILIARIES	685-ABB-
SYSTEM COMMUNICATIONS	683-ABB-
SYSTEM COMMUNICATIONS CARRIER	684- AB-
SYSTEM CONTROL EQUIPMENT	680-ABB-
SYSTEM DISPLAY	682-ABB-
SYSTEM SOFTWARE	681-ABB-
Telephone (Utilities work only)	1820- 1- AB
TEMPORARY BARRICADE	102- 74- A
TEMPORARY BARRIER WALL	102- 71- AB
TEMPORARY GUARDRAIL	102- 73-
TEMPORARY RAISED RUMBLE STRIP SET	102-910-
TEMPORARY RAISED RUMBLE STRIPS	906-546- 1
TEMPORARY REFLECTIVE PAVEMENT MARKER	102- 78-
TEMPORARY SLOPE DRAIN	104- 6-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
TEMPORARY TRAFFIC CONTROL SIGNAL	102-104- A
TEMPORARY TRAFFIC DETECTION, INTERSECTION	102-107-
TEMPORARY WORK STRUCTURE	103- 1-
Tendons	462- 2- AA
TEST PILE- CONCRETE CYLINDER PILES	455-145- A
TEST PILES- PRESTRESSED CONCRETE	455-143- AA
TEST PILES- STEEL	455-144- AA
THERMAL INTEGRITY TESTING FOR DRILLED SHAFTS	455- 93-
THERMITE WELD	832- 2- A
THERMOPLASTIC	711- 1A-BCD
THERMOPLASTIC, NO TRACK	904-711-ABC
Three Sided Box Culvert	407- 1- AB
Timber	470- 1-
Timber Piling	455- 2- A
Timber, Remove	110- 82-
TIMING IMPLEMENTATION	604- 3- A
TOLL PLAZA	735- 74- AA
TOLL PLAZA CANOPY	735- 82- A
TOLL PLAZA ISLAND	735- 84- A
TOLL PLAZA MODIFY EXISTING	735- 88-
TRACK RAISING	825-3AB-CCC
TRACK UNDERCUTTING	825-2AB-CCC
TRACK, STANDARD	825-1AB-CDE
TRAFFIC CONTROL OFFICER	102- 14-
Traffic Control Officer- see Speed and Law Enf.	999-102- A
TRAFFIC CONTROLLER	671- 2- AB
TRAFFIC CONTROLLER ASSEMBLY	670- 5-ABC
TRAFFIC MONITORING SITE, CABINET	746- 7A-BCD
TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY	745- 70- AB
TRAFFIC MONITORING SITE, MODEM	747- 70- AB
TRAFFIC MONITORING SITE, SOLAR POWER UNIT	744- 70- AB
TRAFFIC MONITORING SITE, VEHICLE SENSOR- CLASS II	741- 70-ABC
Traffic Railing Barrier	521- 8- AA
TRAFFIC SIGNAL	650- 5A-BCD
TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL	690- 10-
TRAFFIC SIGNAL SYSTEM	906-609- AA
Traffic Signal System, Interconnect	906-609-100
TRAFFIC STRIPE- TWO REACTIVE COMPONENTS	709- 1A-BCD
Traffic, Maintenance of	102- 1-
Transducer	144- 74-
Transformer (Utilities)	1720-ABB-
TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT	110- 84-
TRASH RECEPTACLE	721- 74- A
TREATED TIMBER PILING	455- 2- A
TREATED TIMBER, STRUCTURAL	470- 1-
TRENCH DRAIN	436- 1- A
TUBING FOR PIEZOMETER	144- 72-
Turbidity Barrier, Floating	104- 11- A

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	*for more information, refer to Pay Item Number and/or specifications*
Turbidity Barrier, Staked	104- 12- A
TURNOUT	825-5AB-CDE
TURNOUT CONSTRUCTION	286- 1-
TURNOUT CONSTRUCTION- ASPHALT	286- 2-
TV- CCTV for Signals	686-ABB-
Type B Stabilization	160- 4-
U-ENDWALL	430-6AB-CDD
UNCLASSIFIED SHAFT EXCAVATION	455-122- AA
UNDERDRAIN	440- 1- AA
UNDERDRAIN INSPECTION BOX	440- 70-
UNDERDRAIN OUTLET PIPE	440- 73- A
UNDERWATER DEBRIS REMOVAL	110- 8- A
UTILITY CABLE, TELEPHONE/COMMUNICATIONS	1820- 1- AB
Utility Designating	737- 71- A
UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS	1820- 2- AB
UTILITY FITTINGS	1055- 1A-BCD
UTILITY FIXTURES	1080- 1A-BCC
UTILITY- GUYS AND ANCHORS- ABOVE GROUND	1135- A
UTILITY LIFT STATION, SANITARY SEWER	1501- 1-
UTILITY LOCATE	737- 70- A
UTILITY PIPE	1050- 1A-BCD
UTILITY RELOCATION- WATER	736- 72- AA
UTILITY STRUCTURE- ABOVE GROUND	1060- 2A- BC
UTILITY STRUCTURE- BELOW GROUND	1060- 1A-BCD
UTILITY TUNNEL	735- 87- A
UTILITY WORK	1000- AA-
UTILITY WORK- TRANSFORMER	1720-ABB-
VALLEY GUTTER, CONCRETE	520- 3-
VALVE BOX- ADJUST	425- 6-
Valve Box, Adjust	425- 6-
Variable Message Sign	102- 99
VEHICLE DETECTOR ASSEMBLIES	663- 74- AB
Vehicle Detector- ITS only	786- 1- AB
VEHICLE DETECTOR SUPPORT APPURTENANCES	663- 72- A
Vehicular Impact Attenuator: See Crash Cusion	102- 81- 2
VERTICAL DRAINAGE WICKS	442- 70-
VIBRATORY PLOWING	557- 1- A
Video Display, ITS	782- 2-ABC
WALL	740- 71-ABC
Wall	534- 73-
Wall	548- AA-
Wall, Barrier- Temporary	102- 71- AB
Weather Info- ITS	781- 3-ABC
Weigh in Motion	770- 78-
WEIGH STATION	770- 79-
Weld (Railroad)	832- 1- A
WELDS, ELECTRIC FLASH-BUTT/THERMITE	832- 1- A
WELL	730- 83- A

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

NOTE: Inclusion on this list does not guarantee that the pay item is valid or open!

Description	***for more information, refer to Pay Item Number and/or specifications***
WELL (IN EXCESS OF 250 FEET DEPTH)	730- 84- A
WELL CASING (DEEP)	444- 71- AA
Well Cleaning	444- 72- AA
WELL OPEN HOLE (DEEP)	444- 70- AA
Well, Plugging	110- 5-
WET WEATHER PAVEMENT MARKINGS	702- 1A-BCD
Wicks, Vertical Drainage	442- 70-
Windshield Washer	735- 89-
Wire, Electrical Service (Signals)	639- 2- A
Wire, Messenger	634- 6- A
Wood Strain Pole	643-ABB-
Work Structure, Temporary	103- 1-
WORK ZONE SIGN	102- 60-
WRAP PILE CLUSTERS	455- 76-
YARD DRAIN	425- 10-

Lower case items: see referenced pay item for current pay item description.
Refer to applicable specifications for additional information.

Chapter 4

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Chapter 4 Revision History

10-30-09: Updated header dates for 2010 edition.
10-1-08: Updated header dates for 2009 edition.

Chapter 5
Contact Lists

The Basis of Estimates is the result of coordination between District Estimates Offices and Central Office Design, Construction, and Maintenance. Issues are identified in the districts, options are proposed through the Responsible Offices, and finally, recommendations are presented for management approval and statewide implementation.

In general, **Designers should coordinate with the FDOT Project Manager.** Pay item issues should be forwarded through the District Estimates and Specifications Coordinator(s) to the Central Office BOE Coordinator. Issues that require major changes (plans, standards, specifications, pay items, or other manuals) will be coordinated between the Responsible Offices, and any recommendations will be forwarded from the Coordination Team. Refer to the tables below for District and Responsible Office contacts.

5.1 CENTRAL OFFICE PAY ITEM COORDINATORS

CENTRAL OFFICE	COORDINATOR	LOCAL
Estimates, Engineering Support Services		
Basis of Estimates	Melissa Hollis	850-414-4182
Long Range Estimates	Dale Stanley	850-414-4197
TRNS*PORT PES/CES	Cheri Sylvester	850-414-4179
Final Estimates	David Chason	850-414-4171
Construction COMP Book forms	Sherry Valdez	850-414-4249
Specifications	Rudy Powell Frances Thomas Debbie Toole	850-414-4280 850-414-4101 850-414-4114
Construction	Stefanie Maxwell	850-414-4314
Maintenance	Deanna Carroll Ray Haverty	850-410-5757 850-410-5531
CADD	Michelle Guynn	850-245-1621

5.2 DISTRICT SPECIFICATIONS AND ESTIMATES COORDINATORS

DISTRICT	COORDINATOR (Titles vary by District)	LOCAL
First	**Specifications:**	
	John Previte	863-519-2679
	Fern Jackson	864-519-2242
	Marilyn Hancock	864-519-2919
	Estimates:	
	Gena Batman	863-519-2558
	Tommy Thompson	863-519-2612
	Ronny Hall	863-519-2602
	Tim Phillips	863-519-2514
Second	**Specifications:**	
	Eddy Scott	386-961-7831
	Teresa Thrasher	386-961-7470
	Chad Townsend	386-961-7844
	Estimates:	
	Richard Rountree	386-758-3759
	Chris O'Gara	386-961-7708
	Ronnie Sadler	386-961-7363
	Lea-Ann Arnold	386-961-7376
	Amir Zad	386-961-7441
Third	**Specifications:**	
	Tim Smith	850-415-9513
	William Evans	850-415-9368
	Bessie Dickens	850-415-9564
	Justin Culbreth	850-415-9392
	Kelsea Garney	850-415-9462
	Estimates:	
	Richard Yates	850-415-9500
	Heath Riley	850-415-9567
	Clay Boutwell	850-415-9437
	Phillip Smith	850-415-9361
Fourth	**PS&E:**	
	Ben Burton	954-777-4135
	Maria Izquierdo	954-777-4412
	Juan Bowles	954-777-4465
	Specifications:	
	Glenn Reyes	954-777-4469
	Estimates:	
	Gene Lipscomb	954-777-4691
	Mark Madgar	954-777-4613
	Ali Rastagh	954-777-4413
Fifth	**PS&E:**	
	Ed Kestory	386-943-5415
	Specifications:	
	Dee Kane	386-943-5227
	Cindy Maluda	386-943-5228
	Estimates:	
	Yougens Pierre	386-943-5415
	Jonathan Linforth	386-943-5185
	Carol Tillis	386-943-5225
	Thomas Maultsby	386-943-5152
	Anna Porter	386-943-5191

Sixth	**Specifications:**	
	Ghasem Zolfaghari	305-470-5268
	Vivian Suarez	305-470-5376
	Estimates:	
	Rubin Rivero	305-470-5259
	Maria Benavides	305-470-5273
	Maurilio Reyes	305-470-5186
Seventh	**PS&E:**	
	Stephen Branson	813-975-6799
	Specifications:	
	Rick McCall	813-975-4854
	Estimates:	
	Beth Carlson	813-975-6139
	Benjamin Loeser	813-975-6064
	Robert King	813-975-6279
Turnpike	**PS&E:**	
	Don Brackins	407-264-3437
	Eddie Register	407-264-3087
	Specifications:	
	Bill Newlin	407-264-3009
	Dayna Nixon	407-264-3695
	Estimates:	
	Steven Sheffield	407-264-3444
	Larry Campbell	407-264-3438

NOTE: Some districts operate as a “PS&E” group (Plans, Specifications, & Estimates), while others have separate offices. Additional names and/or descriptions may be added upon request of the District Office(s).

5.3 CONTACT PERSONS- BY PAY ITEM NUMBER RANGE

ITEM NUMBERS	SUBJECT/GROUP		CENTRAL OFFICE COORDINATOR	PHONE
100-102	MOT		Cheryl Adams	850-414-4327
103	Temporary Structures		Tom Andres	850-414-4269
104 -108	Erosion Control Drainage		Larry Ritchie	850-414-4168
109	Field Office		Stefanie Maxwell	850-414-4314
110-199	"Dirt" Earthwork	Construction	Stefanie Maxwell	850-414-4314
		Roadway	Cheryl Adams	850-414-4327
		Geotechnical	Larry Jones	850-414-4305
		Topsoil/Vegetation	Larry Ritchie	850-414-4168
200-299	Base Courses		Emmanuel Uwaibi	850-414-4372
300-399, except 346-347	Surface Courses, Concrete Pavement		Emmanuel Uwaibi	850-414-4372
346-347	Concrete		Tom Andres	850-414-4269
400-499	Structures	Structures Design	Tom Andres	850-414-4269
		Drainage	Linda Seigle	850-414-4322
		Geotechnical	Larry Jones	850-414-4305
		Movable Bridges	Angel Rodriguez	850-414-4297
500-515	Incidental Construction	Structures	Tom Andres	850-414-4269
		Geotechnical	Larry Jones	850-414-4305
		Movable Bridges	Angel Rodriguez	850-414-4297
516-559	Incidental Construction- Roadway Items		Andy Keel	850-414-4323
			Chester Henson	850-414-4117
560-569	Incidental Construction- Structural Paint		Tom Andres	850-414-4269
570-599	Incidental Construction- Landscaping		Larry Ritchie	850-414-4168
600-699	Traffic Control Devices- Signals & ITS		Trey Tillander	850-410-5617
700-713	Traffic Control- Signing & Pavement Markings		Chester Henson	850-414-4117
714	Motorist Aid Call Boxes		Trey Tillander	850-410-5617
715	Highway Lighting		Chester Henson	850-414-4117
720-734	Incidental Construction- Other		Andy Keel	850-414-4323
735-739	Turnpike Service/Toll Plaza		Steven Sheffield	407-264-3444
741-749	Incidental Construction- Traffic Monitoring (TMS)			
750-775	Incidental Construction- Architectural, Weigh Station, Other		Dean Perkins	850-414-4359
780-789	Intelligent Transportation Systems (ITS)		Trey Tillander	850-410-5617
800-899	Mass Transit (Railroad)			
1000-1999	Utilities		Gordon Wheeler	850-414-4366

Chapter 5 Revision History

10-30-09: Updated header dates for 2010 edition.
10-29-09: Updated Pay Item ranges & contact persons.
10-22-09: Updated contact information for CO and District Specs/Estimates.
10-22-08: Updated contact information for District Specs/Estimates.
10-1-08: Updated header dates for 2009 edition.
10-1-08: Updated CO Specs contact information.

5-28-08: Updated contact information for Districts 3.

Chapter 6
Requesting Pay Items

6.1 General

Occasionally a project requires the use of a pay item that is not currently active in the Master Pay Item Listing, or not defined in the Pay Item Structure. When this occurs, a request must be submitted. ***All pay item requests must go through the District Estimates Engineer.*** *See the instructions below for Opening Pay Items (Items which are listed on the pay item structure), Requesting New Items (Items which require a new/expanded structure), or using Generic Pay Items (Items for one-time use for non-standard work items).*

Note: According to the Plans Preparation Manual, Volume II, Chapter 2, items should be loaded for a project at Phase II. Quantities should be completed in Phase III. Due to processing times noted below, **items should be requested as soon as a need is identified.** DO NOT WAIT until Phase III or IV submittals are due.

Note: The Specifications Office requires that Technical Special Provisions (TSPs) be submitted along with **new** pay item requests. To avoid production delays, TSPs should be submitted for District Review as soon as a need is identified. Refer to the Specifications Office's web page at www.dot.state.fl.us/specificationsoffice for additional instructions.

6.2 Opening Pay Items

Most pay items are open and available for use on any project, as applicable. For items included in the Pay Item Structure, but not currently open on the Master Pay Item list, submit the following information via e-mail to the District Estimates Engineer:

Financial Project ID,
Letting date,
FDOT project manager's name,
Pay item number and description,
Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
Contact name and phone number.
For Tech Spec items: Coordinate with the District Specifications Office before requesting pay items.

SAMPLE E-Mail for Opening Pay Items
(with Valid Pay Item Structure)

TO: District Estimates Engineer
Copy: Project Manager
From: Designer
Subject: Pay Item Request, Project 123456-1-52-01

Please open the following Pay Item(s) for Project 123456-1-52-01, scheduled for 01/01/2010 letting:

0123-456 Item Description (size)(shape defined in structure), EA
Approval of the Tech Spec is included below. (E-mail forwarded from District Specifications' approval.)

0123-457 Item Description (size in structure), LS
Covered by current specifications.

Requested By: Joe Designer, ABC Company, phone 850-555-1212.

The District Estimates Engineer will review the request, verify specification status as needed, and forward the information to the TRNS*PORT Coordinator in the State Estimates Office.

While **most requests are completed within 2 hours**, please allow up to 2 working days for items to be opened. Upon completion of the request, a "reply to all" e-mail will be sent so that the item(s) may be loaded on the identified project(s).

6.3 Requesting New Items

To expand or request a new pay item structure, submit the following information via e-mail to the District Estimates Engineer (form 600-000-02 may be used, as needed):

- Item Description and suggested unit of measure, accuracy
- BOE Detail text,
- Proposed pay item structure (if applicable for items with multiple sizes, functions, etc.)
- Specifications (refer to current specification section, or attach a draft of the proposed Developmental and/or Technical Special Provision)
- PPM reference, standards, and/or plan notes that may apply,
- Supporting information (drawings, Manufacturer's literature, etc.), if available
- Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
- Contact name, e-mail address, and phone number of Designer and/or Project Manager
- Financial Project ID & Letting Date

The District Estimates Engineer forwards the request to the State Specifications and Estimates Office. It is reviewed by the responsible office(s), Specifications Office, and then returned to the Estimates Office. Each office has the opportunity to indicate if the proposed change affects current documents (specifications, standards, and/or other manuals).

Requests for items with no known impact on specifications, standards, or other manuals (normally expanded sizes, shapes, etc.) will be completed within 2 working days*. Upon completion of the request, the originator will be contacted, so that the item may be loaded on the identified project.

***NOTE: While minor changes to the pay item structure can be completed within 2 hours, other changes may require additional time.** When a pay item request MAY involve a new/changed specification, existing pay item, standard, and/or manual, the request will be forwarded to the C-Team for evaluation. Updates to these items may involve extended industry review period(s) and coordination for implementation. Requests for new items should be submitted as early as possible in the design phase. Refer to the C-Team information below for process details.

6.4 Pay Item Request Form Instructions

The Pay item request form 600-000-02 is available at http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp As noted above, the form is optional; the required information may be submitted via e-mail.

To complete the form, **the Originator completes the fields marked with an asterisks(*).** The Originator may be a Consultant Designer (for project specific needs), an FDOT Designer (for new products, processes, etc.) or any FDOT Employee (for implementing policy or procedures).

Fields without an asterisks (*), or unknown information, may be left blank. They will be completed by the BOE Coordinator and/or Responsible Office, as necessary.

Item Structure (Pay item number):

This number will be assigned by the Basis of Estimates Coordinator in the Central Office. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

Guidelines for new pay item structures 0123-456-789:

First three digits (123) match the Specification Section. See also Developmental Pay Items for special cases.

Digits 456-789 are right justified within the group.

Variables ABC-DEF may be used to define operation, size, shape, color, type, etc. when needed to separate items with significantly different cost. *Variables that can be defined in the plans or specifications DO NOT need separate pay items, if the cost is similar.* Contact the Basis of Estimates Coordinator for assistance.

When Install, Relocate, or other non-furnish operations are defined, the remaining variables may be blank or zero. These should be clearly indicated with the structure.

Refer to Chapter 10 for details on the Pay Item Structure/Number. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

***Description:**

Describe the new pay item so that this "name" best relates to future users what this item is used for. The same name will be used for English & Metric lists; therefore, dimensions or unit specific names should be used at the structure level.

***Unit of measure:**

A maximum of two spaces used to abbreviate the method of measure for this item. (see Section 3 of the Basis of Estimates for acceptable units.) Include both English and Metric units.

***Requested Action:**

Check the type of action requested: New Item or Permanent Block. When this item is to be processed with other items, note the related item(s), i.e. Item No. ###-abc-def, or "MOT items for updated standards". An expanded pay item structure is considered a “new item”.

***Structure:**

The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where items a through f are detailed as needed.

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results. Use additional sheet(s) if necessary.

Refer to Chapter 10 for details on the pay item structure/number.

***Detail Information:**

Describe the item, application, recommended use, materials, etc. This information will be used to help identify the appropriate pay item, and cost estimate distribution. This information is used in the Basis of Estimates detail to assist designers in the selection and quantity calculations of an item.

Text may include "Use When…" , “Do not use when…”, "Estimate xx items per…", and/or "Item(s)… are recommended/required when this item is used."

The pay item detail information is not a substitute for specifications. In case of doubt, always refer to the applicable specification(s) for a complete description of the work to be completed, materials, measurement, and payment.

***Method of Measure, Accuracy:**

Unit of Measure & Accuracy used for payment. Consider payment accuracy of similar

items, as shown in the Basis of Estimates. Note: Calculation/Documentation may require higher level of accuracy in the plans and/or computation book.

***Plan Quantity:**

Yes, if payment of item to be based on Plan Quantity, subject to specifications. No, if payment to be based on Field Measurement.

Ensure that this selection matches compensation information in the applicable specifications.

Documentation-

***Specification- Section, Article; Tech Specs?:**

For items with existing or related specifications (requests for items with new size, shape, or function), refer to the applicable Section number.

For project specific items without existing specifications (requests for items with limited use or project specific conditions), contact the District Specifications Office; a copy of the Technical Special Provision will be required with the pay item request form.

For new, general use items without existing specifications (requests for items based on changes to standards, specifications, and or policy), contact the State Specifications Office. The implementation of these items will be coordinated with all affected offices.

Specifications Submitted, Date:

List the name of the person originating the specification, and the date it was sent to the Specifications Office.

***Plans Prep Manual:**

Refer to Volume and Chapter for applicable information. If a revision is necessary, contact the State Roadway Design Office to propose revision(s).

***Standards Index No(s):**

Applicable *Roadway and Traffic Design Standards*, or *Structures Design Standards*, with index number(s). If a revision is necessary, contact the applicable office.

***CADD/COMP Form Number(s):**

Applicable form(s) for documentation of quantities. Refer to Section 1 of the Basis of Estimates for current forms.

***Plan Notes:**

If plan notes will be required, provide sample text of note. (Plan notes should not replace or duplicate specification text.) All plan notes should be coordinated with the PPM text.

Other:

If use of this item is included in other documentation (Drainage, Pavement Design, Traffic Signals, or other Manual/Handbook), note applicable volume, chapter, or edition. If revisions are necessary, coordinate changes with applicable office.

Responsible Office Approval, Date:

This is the Office and Contact Person listed in Chapter 5, generally within the Office of Design in Tallahassee. The Contact Person in the Responsible Office should refer to Chapter 10 for assistance in completing the blank fields on the form.

Cost Data-
Related Pay Item(s), Unit Price, Additional Cost, Availability:

For items similar in cost, provide related item numbers. (This information is used to assist in Preliminary Cost Estimates.) If no similar item exist, provide price and availability information. Unit price includes cost of material; additional cost to include installation, delivery, incidental materials, etc. Availability to include suppliers or manufacturers.

Estimator's Approval, Date:

State Estimates Office, Preliminary Estimates Section will review of the proposed price and/or related items.

Originator-
Name, Date, Office, Phone, District:

The originator may be a Consultant or FDOT employee, currently working on the project for which the item is requested. This person should be able to answer any additional questions regarding the use/application of this item. Complete information as requested.

District Estimates Office Approval:

For Items originating in the districts, the District Estimates Engineer should sign, indicating that the form contents have been completed and reviewed.

Central Office Approvals-
Design Coordinator, Specifications Coordinator, BOE Coordinator, TRNS*PORT Coordinator:

Each person responsible for approval should verify that requested action is necessary, meets existing/proposed standards, guidelines, handbooks, etc, and not in conflict with existing item(s).

Implementation-
Effective Letting Date, C-Team Issue #, Summary Details:

The implementation information will be completed in the Central Office, following all approvals. Actions which require coordination between offices will be addressed by the Coordination Team, with approved implementation plans detailed in the Basis of Estimates Summary of Changes. Minor actions, not requiring an implementation plan, will be implemented immediately.

Master File- Item Number, Financial Project Number, and Project Letting Date:

If a project number is known, the item(s) will be opened upon approval and implementation. If the project number is unknown, the structure will be established, but the item will not be opened until requested.

6.5 Using Generic Items

6.5.1 Description

Generic pay items are general-use pay items for each design group (component set of plans) that are defined by a pay item supplemental description on a project by project basis in the Trns•port system. They are intended to support one-time usage pay items or specialty situations where a standard pay item is not available, and for which it is not practical to create a new pay item. A single generic pay item number can be used many times, but only once per project/proposal; each time it is used the appropriate descriptive information must be included in Trns•port. ***Since these items are for unique situations, tracking of cost history for future estimation purposes is not necessary.***

Generic pay items are intended to facilitate the use of one-time or limited-use non-standard work items, as well as to provide more flexibility in Utilities pay item structure.

The key users of generic pay items include:

- District/Consultant Designers
- Construction Personnel
- Utility Agencies

6.5.2 Rules

The following rules apply in the usage of generic pay items:

- Must not be used if there is an existing pay item.
- Must not be used to violate or circumvent standard pay items. Exception: Generic Items for JPA Utility work.
- Must not be used to circumvent the approval process (for specification usage) on developmental items.
- Must not be used as a standard means to work-around a pay item that has been rejected for statewide usage by Central Office. (For unique situations, an item rejected for statewide usage may be used as a one-time generic pay item.)
- Must not to be used for sole-sourcing of materials/methods for items of work.
- Must not be used to circumvent the pay item request process if the pay item should be opened for statewide usage.
- Must be supported by a technical special provision and/or plan details (drawings or notes) that include clear definition of work, materials, measurement, and payment.
- Must be loaded in Trns•port under the appropriate category.

6.5.3 Roles

It is important that everyone involved in the pre-letting and post-letting processes understands and fulfills their respective responsibilities regarding generic pay items:

Designer – Designers are responsible for determining if a generic pay item is needed, developing the technical special provision (or ensuring it has been developed), and ensuring that all necessary details are included in the contract documents.

District Estimates Staff – District Estimates Staff are responsible for determining if a standard pay item should be requested for statewide usage. If a Generic Pay Item is deemed appropriate, the District Estimates Staff is responsible for entering the appropriate information into Trns•port PES.

Central Office Project Review Team – The CO Project Review staff will perform a quarterly Quality Assurance review of generic pay items after the letting. They will not perform a Quality Control review of generic pay items prior to the letting.

The quarterly review will be completed as follows:

- Run the Pay Item Future Search report to determine if any generic pay items were used during the previous quarter;
- Check for proper details and plan notes in the contract documents;
- Check for correct information in Trns•port:
  - Verify that the description of the generic pay item has a Proposal Supplemental Description, with unit of measure;
  - Verify that generic items have been loaded in the correct category;
- Coordinate with the responsible design office if usage of generic pay item is questionable (usage does not appear to abide by the usage "Rules" as described in this document).

6.5.4 Process

The process that is to be followed when generic pay items are used is as follows:

1. District identifies work that is appropriate for a generic pay item, but must not violate the rules;
2. Designer includes all supporting details for the generic pay item in the contract documents;
3. Designer loads generic pay item into Trns•port via the Designer Interface, and supplies the District Estimates staff with the pay item supplemental description.
4. District Estimates staff loads supplemental description and units for generic pay item into Trns•port (Designers do not have access to this description field in PES via the Designer Interface).

6.5.5 Quality Control & Quality Assurance

Quality Control: Districts assume all responsibility for proper usage of generic pay items. No approvals from Central Office will be required; no Quality Control reviews will be performed by Central Office.

Quality Assurance: Quarterly post-letting reviews of generic pay items will be performed by the Central Office Project Review team. The team will check for:

- Supplemental Proposal Description (clearly representing the item of work), with unit of measure, has been loaded in Trns•port; and
- Complete documentation (drawings and/or specifications) is included in the contract package.

The responsible Central Office Design personnel may be consulted to verify appropriate usage.

6.5.6 Pay Item Structure & Description

Generic pay items are structured as:

0000-AAA-BBB
AAA = Design Group/Trns•port Category (100 for Structures, 200 for Roadway, etc.)
BBB= Sequential Number that can be re-used

Note: Zeros are hard-coded; they are NOT blanks.

There are a minimum of 10 generic pay items available in each Trns•port design group. If additional generic items are needed, they can be requested through Central Office Design, and will be opened through an expedited process without delay.

The default unit of measure (in Trns•port) for all generic pay items is ZZ. The actual unit of measure must be keyed into Trns•port with the project-specific description being added at the end of the Supplemental Proposal (Pay Item) Description.
Example:

```
0000-600-  1   LANDSCAPE DESIGN GROUP— GENERIC PAY ITEM1 (SMALL TREE TRIMMING — EA)        ZZ
```

Trns•port PES: The Supplemental Proposal (Pay Item) Description and unit of measure are entered into PES as follows:

By default, the Description field will be filled with the generic description that is associated with the pay item number in the master pay item list; the default unit of measure will be ZZ. While the designer may enter the pay item number and quantity, it is the District Estimates Office's responsibility to enter the Supplemental Proposal Description and actual unit of measure, as shown in parentheses in the example above.

Non-Utilities Pay Item: When using a generic pay item for non-Utilities work, caution must be taken to ensure that a standard pay item is not appropriate for the conditions. Refer to the rules in 6.5.2. In unique or special situations, generic pay items can be used for non-Utilities work to:

- Specify details of a lump sum pay item:

```
0580-  1-  1    LANDSCAPE COMPLETE - SMALL PLANTS     LS
0000-600-  1    LANDSCAPE DESIGN GROUP– GENERIC PAY ITEM1   (AZALEAS- EA)    ZZ
```

- Include a one-time usage item, or an item that is unique to the project:

```
 0000-200-  1   ROADAY DESIGN GROUP– GENERIC PAY ITEM1 (LARGE BLUE WIDGET – EA)
ZZ
```

- Generic items must **NOT** be used for non-Utilities work to specify a size on pay items for which a range of sizes is available:

```
0430-173-101    PIPE CULVERT OPTIONAL MATERIAL, ROUND-SHAPE,  0-24", GUTTER
                DRAIN   LF
0000-200-  1    ROADAY DESIGN GROUP– GENERIC PAY ITEM1 (PIPE CULVERT OPT MATERIAL,
                ROUND, 18", GUTTER DRAIN)    LF
```

JPA Utility Pay Items: Generic pay items can potentially provide greater flexibility for Utilities projects. They can be used to:

- Specify a pipe size when the standard pay item is for a size range:

```
 1050- 11-424  UTILITY PIPE, F&I, DI/CI, WATER/SEWER, 8-19.9"        LF
 0000-700-  1  UTILITY DESIGN GROUP – GENERIC PAY ITEM 1 (UTILITY PIPE, F&I, DI/CI,
               WATER/SEWER, 10" - LF)         ZZ
```

- Break out fittings on items that normally have fittings included as an incidental cost of the pipe (pipe size less than 8"):

```
 1050- 11-423   UTILITY PIPE, F&I, DI/CI, WATER/SEWER, 5-7.9"         LF
 0000-700-  1   UTILITY DESIGN GROUP – GENERIC PAY ITEM 1 (UTILITY PIPE, F&I, DI/CI,
                WATER/SEWER, 6" - LF)           ZZ
 0000-700-  2   UTILITY DESIGN GROUP – GENERIC PAY ITEM 2 (UTILITY FITTINGS, F&I,
DI/CI,
                ELBOW, 6" - EA)                 ZZ
 0000-700-  3   UTILITY DESIGN GROUP – GENERIC PAY ITEM 3 (UTILITY FITTINGS, F&I,
DI/CI,
                TEE, 6" - EA)            ZZ
 0000-700-  4   UTILITY DESIGN GROUP – GENERIC PAY ITEM 4 (UTILITY FITTINGS, F&I,
DI/CI,
                CAP/PLUG, 6" - EA)            ZZ
```

- Combine fittings into one pay item when the standard pay item does not include the fittings (pipe size greater than or equal to 8").

```
 1055- 11-414   UTILITY FITTINGS, F&I, DI/CI, ELBOW, 8-19.9"  EA
 1055- 11-424   UTILITY FITTINGS, F&I, DI/CI, TEE, 8-19.9"    EA
 1055- 11-454   UTILITY FITTINGS, F&I, DI/CI, CAP/PLUG, 8-19.9"       EA
 0000-700-  1   UTILITY DESIGN GROUP – GENERIC PAY ITEM 1 (UTILITY FITTINGS,
                8-19.9" - EA)    ZZ
```

6.6 Inactive Items

In an effort to remove unused pay items, those items not used within a 2 year period will be labeled as "inactive" and considered for temporary and/or permanent blocking.

Opening inactive items will require that the Designer follow the instructions for opening an item (i.e. submit an e-mail with the requested information, as described above. A copy of the Tech Spec may be required). The Central Office Estimates staff will request approval from the responsible office, prior to opening. Designers should allow up to an additional 2

working days for this approval.

If an inactive item remains unused for 3 years, the Estimates Office will recommend to the responsible office that the pay item structure be blocked. Once blocked, a pay item request form must be completed in accordance with Requesting new items, as described above.

6.7 Pay Item Reviews

When a major specification or standards change is made, the responsible office is requested to review the pay item structure to ensure that the affected items meet the needs of Design, Construction, Maintenance, and other industries. Historical use and item averages are available, but should not be the only consideration.

As recommended with new items, the pay item structure ###-abc-def, should be used to define parameters as needed. Some factors to consider when reviewing the pay item structure:

a. What factors are most important to the Designer, Estimator, Supplier, Manufacturer, and/or Contractor? Can they be detailed in the plans? Are they included in the specification? Does it affect the price?

Note: Not all factors should be weighted equally. Sometimes the installation (labor) is more significant than the materials.

b. Are there standards/specifications for the item?

There may be 2 standard products and 8 “special” items. If the 2 standard items account for a significant percentage of applications, could the “special” items be combined under one “special” item?

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results

6.8 Coordination Team

A team representing many Design & Construction Offices has been established to coordinate the review and implementation of various issues. By working together, the team is able to ensure that pay items, specifications, and standards, as well as supporting handbooks and manuals, are available in a timely manner- with a coordinated implementation plan. Design Representatives include the persons from Roadway, Structures, Specifications, Standards, and Estimates. Construction and Maintenance are also represented. When necessary, representatives from other affected offices are requested to attend.

Issues may be submitted by any office or representative, but are normally the result of changes to pay items, specifications, and/or standards. Each office’s representative is encouraged to keep the team informed of issues that may impact others. Representatives’ names and contact information are listed in Chapter 5. When proposing major changes to

the pay item structure, specifications or standards, please coordinate with the contact person(s) listed for the affected items.

Issues brought to the attention of the C-Team will be evaluated and processed on a "case-by case" basis. Issues with minimal impact on others are noted, with little or no further C-Team activity. Issues with extensive impact may be assigned to a committee for further investigation. The result of C-Team activity should be a recommended implementation plan, complete with a brief history and resulting changes. Implementation will be scheduled to coincide with Specification, BOE, Standard, and Manual updates, when possible.

The State Estimates Office compiles information resulting from C-Team recommendations for the Summary of Major Changes included with each edition/update to the Basis of Estimates. Managers of the affected offices approve issues included in the summary. Overall approvals, from the Directors of the Office of Design and Highway Operations, are also included.

6.9 Developmental Pay Items / Trial Pay Items

When an item is recommended for implementation while details are under review (specifications, standards, policy, etc.) a developmental pay item may be assigned. Developmental items are created for limited use, for a limited period of time, while the item is under review. A monitor will be assigned for each Developmental Item.

Developmental pay item numbers will be assigned as follows: (year)-(section)-(sequential use). The monitor's name will be included with the structure. Any problems or concerns with these items, from either Design or Construction, should be directed to the monitor, in writing.

Contact the monitor prior to using a Developmental Pay Item. If the monitor approves the item for use, the monitor will e-mail the central offices of Design, Specifications and Estimates approving the use of that trial pay item number with specifications dated mm/dd/yy for a specific project.

Upon completion of the specification, standard, and/or policy change(s), the monitor will recommend that the item be opened for statewide implementation, the Coordination Team will recommend an implementation date, and a new pay item number will be assigned.

6.10 Related Documents

COMPUTATION BOOKS

The Computation Book(s) are to be prepared in accordance with the Department's directive/procedure No. 700-050-001**, Computation Methods for Design, Construction, and Final Estimates**, and accompanying handbook. Included in the procedure are instructions for documentation of Lump Sum items, Plan Quantity items, as well as final measure items. This information is available online at **www.dot.state.fl.us/construction** .

ALTERNATIVE CONTRACTING USER'S GUIDE

It is the intention of the Department to use various techniques on a wide range of project types in order to determine which techniques work best with each project type. The goal of this program is to reduce the cost and time overruns, and thereby reducing the impact of construction on motorists, businesses and homeowners within the transportation corridor.

Most of the alternative contracting practices involve financial incentives to expedite work. Methods include A+B Bidding, Lane Rental, Design-Build, Bonus, Liquidated Savings, and Lump Sum Projects. ***Note: For more detailed instructions, refer to the Department's Alternative Contracting User's Guide* on the Construction Office's web page at www.dot.state.fl.us/construction**

PLANS PREPARATION MANUAL

The Roadway Design office maintains the Plans Preparation Manual (PPM). The manual sets forth geometric and other design criteria, as well as procedure for FDOT projects. This document is now available online at www.dot.state.fl.us/rddesign

Chapter 6 Revision History

12-9-2009: Inserted section 6.5 Generic Pay Items. Text is based on Estimates Bulletin 09-06, and the accompanying Guidelines for Usage of Generic Pay Items.
10-30-2009: Updated header dates for 2010 edition.
10-1-2008: Updated header dates for 2009 edition.
10-1-2008: Updated text to make the pay item request form optional. Complete information may be submitted by e-mail.

Chapter 7
Design Tools

7.1 General Information

Detailed plan notes and/or technical special provisions must be provided by the designer for all items not covered by existing specifications. *Plan notes are not acceptable as a substitute for Technical Special Provisions.* Plan notes are intended to work *with* the specifications, and are not intended to supersede the specifications. Plan notes must not:

Change the specifications
Conflict with the specifications
Duplicate the specifications

When existing specifications are not applicable, coordinate the specification revisions with the District Specifications Office. Every effort should be made to avoid conflicts, as plan notes are overridden by some specifications and take precedence over others. In either case, plan notes must *never* conflict with specifications. Details necessary for complete information include:

Description of item
Materials
Construction and installation
Method of measurement
Basis of payment.

***NOTE: Refer to the Plans Preparation Manual (Topic 625-00-006) for additional guidelines on using plan notes. It is located online at http://www.dot.state.fl.us/rddesign/default.htm* Contact the Roadway Design Office with any questions, comments, or corrections regarding these notes**.

7.2 Tech Spec or Detail Flags

Several letters or “flags” are used on the Master Pay Item list and Summary of Pay Items to indicate when a Tech Spec and/or Plan detail is likely needed. Below is a current list of these flags:

T= Tech Spec and/or Plan Detail required
D= Plan Details required
M= Monitored Item
G= Generic Item
P= Permit required
A= Approvals needed

Whenever one of these flags is used, refer to the pay item details in the ***Basis of Estimates*** for additional information. A “Quick Reference” handout is provided at the end of this Chapter.

Chapter 7 Revision History

5-14-10: Updated “Quick Reference” page.
10-30-09: Updated header dates for 2010 edition.
9-16-09: Changed chapter title from Plan Notes to Design Tools. Added section for Tech Spec and other flags. Added “Quick Reference” page.
10-1-08: Updated header dates for 2009 edition.
5-28-08: Deleted notes; refer to PPM for current information for: Key Sheet Notes, Typical Section Notes, Summary of Quantities Sheet Notes, Plan and Profile Sheet Notes, Pay Item Footnotes, Drainage Map Notes, and Utility Adjustment Sheet Notes.

BOE Quick Reference: Tech Spec or Plan Detail

Refer to BOE Chapter 7 for complete information

Quick Questions:

1. What is the **work to be completed**?
2. What are the **material requirements**? What are the testing criteria?
3. How is this to be **installed**? What are the performance requirements?
4. Will the item be **measured** in the field, or paid by plan quantity?
5. What work/materials are included with, or excluded from, this **payment**?

When is a Plan Note sufficient? When the quick questions above are answered by the specifications, a plan note is sufficient. Remember, plan details/drawings show dimensions and location; they are not a substitute for complete specifications.

When is a Tech Spec Required? If the above quick questions are not answered by the existing specifications, a tech spec is required.
The Designer is responsible for ensuring that all pay items are completely covered within the contract documents (specs, standards, and/or plans).

A complete specification includes:

Description: A Description of the work to be completed may be in the form of a drawing/plan detail, words in a specification, or both.

Material requirements: Materials may be identified in the specifications, design standards, by reference to ASTM or other testing criteria, or by notes in the plans. Consider long-term material requirements, such as UV protection or other coatings.

Construction: Either installation methods or performance requirements may be given. Some products may be installed “in accordance with manufacturer’s instructions.”

Method of Measurement: Describe how the item will be measured, as well as whether it will be paid by plan quantity or field measured.

Many items are “furnish & install”, for a complete and accepted installation. When working with “install only” items, ensure that the pick-up/delivery instructions are included. For “relocate” items, clearly identify original and final location, as well as clean-up work at the original location and incidental items needed at the final location. “Remove” items should clearly identify whether contractor takes ownership (dispose) or the Department retains ownership (stockpile- within right or way, or delivered to maintenance yard). Additional operations are explained in the ***BOE, Chapter 10.***

Special/Custom items should only be used when there is a significant deviation from the standard item of work; existing specs and/or standards do not apply. Complete specifications are needed. Note: Minor changes may be noted in the plans, using standard pay items, as long as conflicts are not created within the contract documents. Coordinate spec changes with the District Specifications Office.

Basis of Payment: Payment is often “full compensation for all work specified” for a complete and accepted installation.

Chapter 8
FORMS

CADD Forms/Sheets/Cells are maintained by the State Engineering/ CADD Office at http://www.dot.state.fl.us/ecso/default.htm

COMP Forms are maintained by the State Construction Office at http://www.dot.state.fl.us/construction/formsonl/Forms_on.htm

For information regarding these forms, please contact these offices directly.

8-1 Introduction

Support information for CADD/Comp forms is now located within Section 1 of the Construction Office's handbook **Computation Methods For Design, Construction & Final Estimates Handbook** located at: http://www.dot.state.fl.us/construction/manuals/finalest/newcompbook/Handbook_meun.htm on the internet. Please refer to this handbook for the latest information on both CADD and Comp book forms.

The forms referenced in this section were developed by the Department of Transportation to serve the needs of Design, Construction and Estimates personnel. In Design, they are used to record calculations and tabulations for plan quantity. Construction personnel must verify the original quantity or modify it to reflect what was constructed, and enter a tentative final pay quantity. Estimates personnel must check both the original or plan quantity, versus the final quantity, and substantiate what quantity is to be paid to the contractor in agreement with all specifications and Department policies.

It is MANDATORY that each pay item be documented. **When two or more forms are available, the Designer should select the best form (CADD or COMP) to document the pay item quantity, based on project conditions.** For example, a simple area of turf may be documented in a CADD summary box in the plans. A complex area of turf should be shown in the plans with detailed quantity calculations documented in the comp book. DO NOT use both forms, as this duplication of effort causes additional work for designers, reviewers, estimators, and others.

There are three groups of forms applicable for estimate purposes: Computation Book Forms, Plans Forms, and Miscellaneous Forms. Computation Book forms are maintained by the State Construction Office, Final Estimates Section. Plans forms are maintained by the Engineering CADD Systems Office, with input from affected Design Offices. The State Estimates Office, Engineering Support Section, maintains miscellaneous Forms. Web links to these forms are included with each group.

DISCLAIMER: The information contained within this Section is for information/reference purposes only. The intent is to provide a brief summary of the forms referenced by specific pay items. Current forms are available from the responsible office, as noted above. Any questions, comments, or other correspondence related to forms should be directed to the responsible office.

8.2 Computation Book Forms

The forms assembled in the Computation Book provide a simple and logical basis of documentation for the Summary of Pay Items Sheet in the contract plans. The calculations required for different forms, range from tabulations of "each items" or "lump sum items" to complex area or volume calculations. The designer should use the form recommended for each item calculated or tabulated, if practical.

Form Number	*Form Title*
700-050-01	Area Computations
700-050-02	Curb and/or Gutter Computation
700-050-03	Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computations
700-050-04	Volume Measure Items
700-050-05	Lump Sum Quantities
700-050-06	Weight Measure or Liquid Volume Computations
700-050-07	Concrete & Reinforcing Steel Computations
700-050-08	Piling Tabulation
700-050-09	Linear Measurement Computation with Components
700-050-10	Computation Book Pay Item Summary Sheet
700-050-11	Computation Book Pay Item Summary and Certification Sheet
	The following are Final Estimates Site Source Records
700-050-50	Off Duty Police Officer
700-050-51	Daily Log Sheet, Maintenance of Traffic
700-050-52	Daily Log Sheet (Striping)
700-050-54	Daily Report of Truck-Measured Material
700-050-55	Daily Log Sheet for Tracking Grassing Items
700-050-56	Daily Log Sheet for Miscellaneous Items
700-050-62	Contractor's Certified Invoice, Maintenance of Traffic Sheet

For questions or comments regarding these forms, please contact the State Construction Office, Final Estimates Section. Contact information is located in the introduction section of this handbook.

Forms are available in .pdf format from the Office of Forms and Procedures at http://www.dot.state.fl.us/proceduraldocuments/ Search by Number, Office (Construction) or Title. To retrieve forms from the FDOT CADD software, use the bar menu. Contact your CADD Manager for details and software updates.

8.3 Plans Forms (CADD-Generated)

Plans Forms are CADD-generated. They provide the designer with a simple and logical format for summarizing quantities by the type of item. These forms contain spaces for recording both original design quantities and final "as built" quantities.

Form Title *Refer to the CADD office web page for form/sheet names*
Pole Data Sheet (Sheets 1 and 2)
Tabulation of Quantities *
Summary of Pay Items
Summary of Drainage Structures
Summary of Guardrail
Summary of Ditch Pavement and Sodding
Summary of Fencing
Summary of Fencing Type B
Summary of Fencing Type A
Summary of Earthwork

Summary of Sodding
Summary of Side Drain and Mitered End Sections (Without Offset and Flow Line)
Summary of Sheeting
Summary of Turnouts
Summary of Underdrain
Summary of Gravity Wall and Aluminum Handrail
Summary of Flood Data
Cross Drain Optional Materials Tabulation (With Flow Line) (Sheets 1 & 2)
Optional Materials Tabulation (without Flow Line Changes) (Sheets 1 & 2)
Summary of Edgedrain
Summary of Sidedrain and Mitered End Sections (With Offset and Flow Line)

***** The Tabulation of Quantities format shall be used for the following:

1. Signalization Plans
2. Signing and Pavement Marking Plans
3. Lighting Plans
4. Landscaping Plans
5. Utility Joint Project Agreement Plans
6. Other items, as indicated in the Basis of Estimates Handbook.

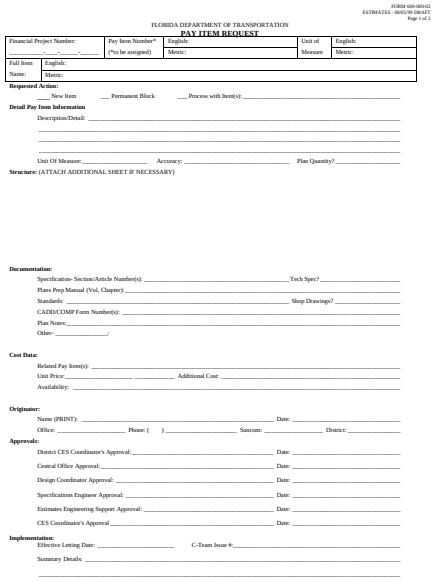
CONTACT INFORMATION

For questions or comments regarding these forms, please contact the Engineering CADD Systems Office. To retrieve CADD forms, visit the Engineering/CADD Systems Office web site at: http://www.dot.state.fl.us/ecso/default.htm

8.4 Quantity Manager & Computation Book (A Note from the CADD and Construction Offices)

When the Designer utilizes the Department's Quantity Manager Tool within MicroStation/GEOPAK, the data that is depicted on the Computation Sheets may not utilize the whole form. The data shown on the Computation Sheets may only fill a portion of the actual form, and not display the whole form with blank lines. This will be an acceptable format, as the data depicted on the Computation Sheets should be complete. The first page will continue to provide a signature block for plan quantity items, as well as the area of notes for over/under runs, and the extra notes below that. The remainder of the sheets will provide quantities for the individual sheets. By utilizing the Quantity Manager tool in GEOPAK, the Designer will eliminate potential errors in data transfer and transposition of numbers by being automated.

8.5 Estimates Forms



FORM 600-000-02
ESTIMATES – 08/05/09 DRAFT
Page 1 of 2

FLORIDA DEPARTMENT OF TRANSPORTATION

PAY ITEM REQUEST

Financial Project Number:	Pay Item Number*	English:	Unit of Measure	English:
_____-_____-_____-_____	(*to be assigned)	Metric:		Metric:
Full Item Name:	English:			
	Metric:			

Requested Action:

____ New Item ___ Permanent Block ___ Process with Item(s): _____

Detail Pay Item Information

Description/Detail: _____

_____

_____

_____

Unit Of Measure: _____ Accuracy: _____ Plan Quantity? _____

Structure: (ATTACH ADDITIONAL SHEET IF NECESSARY)

Documentation:

Specification- Section/Article Number(s): _____ Tech Spec? _____

Plans Prep Manual (Vol, Chapter): _____

Standards: _____ Shop Drawings? _____

CADD/COMP Form Number(s): _____

Plan Notes: _____

Other: _____;

Cost Data:

Related Pay Item(s): _____

Unit Price: _____ _____ Additional Cost: _____

Availability: _____

Originator:

Name (PRINT): _____ Date: _____

Office: _____ Phone: ( ) _____ Suncom: _____ District: _____

Approvals:

District CES Coordinator's Approval: _____ Date: _____

Central Office Approval: _____ Date: _____

Design Coordinator Approval: _____ Date: _____

Specifications Engineer Approval: _____ Date: _____

Estimates Engineering Support Approval: _____ Date: _____

CES Coordinator's Approval _____ Date: _____

Implementation:

Effective Letting Date: _____ C-Team Issue #: _____

Summary Details: _____

_____

PAY ITEM REQUEST
600-000-02

This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details. Note: This form is optional; required information may be sent via e-mail, per Chapter 6.

Chapter 8 Revision History

10-30-09: Updated header dates for 2010 edition.
10-6-08: Updated header dates for 2009 edition.
10-6-08: Updated pay item request form information, per Chapter 6. Use of the form is optional.
5-14-08: Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.

Chapter 9
WEBGATE: TRNS*PORT DESIGNER INTERFACE & REPORTS

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9.1 General

9.1.1 Intro to TRNS*PORT Suite

TRNS*PORT is a suite of programs owned by AASHTO (American Association of State Highway Transportation Officials). Many states around the country use this suite of programs for their transportation contracts. The TRNS*PORT programs used by FDOT include:

PES: Proposal Estimating System
CES: Cost Estimating System
LAS: Letting and Award System
SiteManager

9.1.2 Levels: Proposal, Project, Category, and Pay Item

TRNS*PORT data is organized into several levels. Starting at the lowest level, **pay items** are used to pay for a given item of work, as defined in the plans and/or specifications. Pay Items may include materials, equipment, and/or labor to complete the defined work. Multiple pay items may be included in a **category** of work. Categories include Structures, Roadway, Signing, Lighting, etc. For each category of work, a component set of plans is usually provided. A **project** may include one or more categories of work, within a defined geographic area. For example, a project may include a bridge (structure), resurfacing and drainage improvements (roadway), and related striping (signing and pavement markings). When ready for letting, one or more projects may be combined in a **proposal**. The proposal includes any additional components (letting, award, and execution information) necessary for the contract.

9.1.3 Training & Helpful Hints

Training is available from the State Specifications and Estimates Office, Engineering Systems Support section. Dates are scheduled at the District Offices, when requested. Please contact your District Estimates Office to request training.

Additional information and “Helpful Hints” handouts are available on the Estimates Office web pages at http://www.dot.state.fl.us/estimates/Training/training.htm

9.1.4 Security

Security within TRNS*PORT is managed by Control Groups (access to Projects & Proposals) and Roles (User functions).

Control Groups: Control Groups are used by TRNS*PORT to assign projects and/or proposals to selected users or groups. The typical designer (user) control group is CD??U525, where **CD** indicates that the project is for **C**onstruction (as opposed to Maintenance), originating in the **D**istrict. The question marks (??) are wildcard indicators for the district number. These wildcards may be replaced by a two digit number, when the user is restricted to a single district. Finally, the last 4 digits indicate the designer’s company. The District Estimates Engineer assigns projects to a company’s control group. A sample Project control group might be CD03U525. Note: by using the ?? for

district number in a user's control group, a designer (user) is permitted to see all projects, in all districts, which have been assigned to their company (project).

User Control Group: CD??A123

Project Control Group: CD##A123, where ## is the district number, and A123 is the company code, as defined in TRNS*PORT PES.

If you are unable to access a project, contact your District Estimates Office. In the early design phase, it is possible that the project has not been assigned to your company. In later design phases, it is possible that the project has changed control for estimating and/or letting purposes. The Project Manager and/or District Estimates Office will make arrangements to return control to designers if/when revisions are necessary. Addendums (revisions after advertisement) must be coordinated with the District Estimates Office.

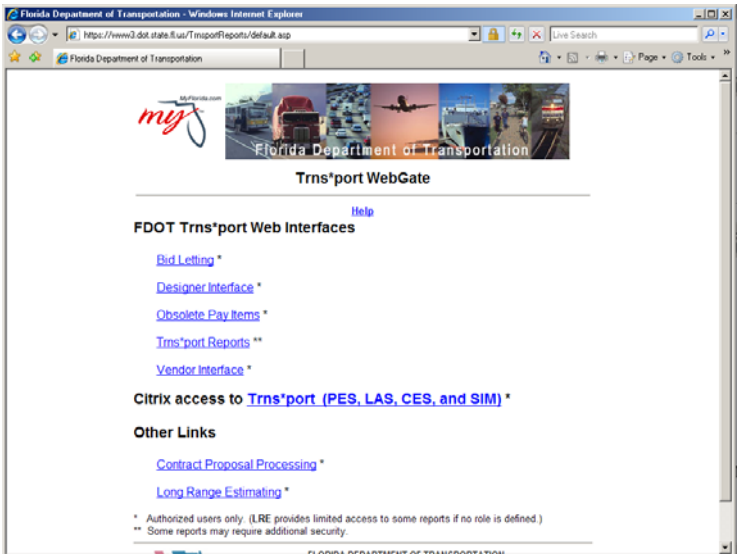
Roles: Most designers are given the role "Designer". This role allows the designer to access the Designer Interface, as well as to run selected reports. Non-Designers may be given the role "Public", to allow report access without the Designer Interface. Specialized roles are available to FDOT reviewers and estimators; contact the District Estimates Office for additional information.

9.2 Webgate

The Webgate is an internet page that serves as a doorway to the Designer Interface, Reports Menu, and other applications. It is accessed with the RACF userID and password.

9.2.1 Menu

The screen below shows the options available at the Webgate menu.



The Webgate (formerly known as the Designer Web pages) was developed by FDOT to assist the Designer with pay item needs. With the Webgate, the designer uses an internet connection (dial-up, DSL, cable, etc.) to access the web pages located at https://www3.dot.state.fl.us/TrnsportReports/default.asp
Additional Instructions and "Helpful Hints" handouts are located on the Estimates web pages at http://www.dot.state.fl.us/estimates/training/training.htm

9.2.2 Designer Interface

The Designer Interface is a tool used for loading project pay items into TRNS*PORT's Project Estimating System (PES) module.

Projects are initiated in the FDOT Financial Management (FM) System. The District Estimates staff creates a project in PES, and transfers FM information into the header. The District Estimates staff then sets the control group, based on the design firm assigned to work on the project. Additional details are provided below for using the Designer Interface.

9.2.3 Reports

The Reports menu allows users to select and produce reports based on current "live" information. Some of the reports are based on historical (awarded) projects, while other reports are based on future (proposed) projects. Additional details are provided below for using the Reports.

9.2.4 Other Applications

Additional applications, including LRE (Long Range Estimates System), are available from the Webgate menu. Note that additional "roles" may be required to fully utilize these applications. Contact your District Estimates Office for information and/or to request access to these applications. Access will be based on the applications needed to complete the FDOT work assigned to a user and/or their employer.

9.3 Designer Interface

9.3.1 Project Access and Verification

Once assigned to a project, the designer should verify:

a) that the project exists (or that proper control has been given)
b) that all project header information is correct

If proper control is not given, the project will not appear on the designer's list of available projects. The designer should contact the District Estimates Office to request control. See below for more information on Control Groups.

9.3.2 Headers

TRNS*PORT information is grouped at various levels:

Proposal
Project

Category (aka Design Group)
Pay Item

Each level includes information applicable to the levels above and/or below it.

Proposal Headers: The District Estimates Office creates the proposal prior to the letting. The proposal is used to “link” or “string” one or more projects, for letting purposes. All projects must be assigned a proposal number prior to advertisement.

Note: The State Estimates Office recommends that the proposal be created between 90-100% plans. Creating the proposal prior to 90% plans is possible, but causes PES issues when adding or deleting pay items- section and line numbers must be re-generated within PES, prior to producing a proposal summary. Currently, the designer must request that the District Estimates Office “Generate Section and Line Numbers.”

Project Headers: When first given access to the project, and at each design phase, the designer must verify the project header information. While much of this information is automatically transferred from FM to TRNS*PORT, the designer should check the letting date, spec year, and other information. Any errors should be immediately reported to the FDOT project manager for correction.

If project header information is incorrect, DO NOT attempt change it; this information is refreshed nightly from FM. It MUST BE CORRECTED IN FM. The designer should contact the FDOT project manager prior to making any changes. The project manager will coordinate FM changes with the responsible office(s) in the district. See below for more information on Project Headers.

Category Headers: From the project level of the Designer Web Pages, the designer can select, copy, and/or delete categories. At a minimum, **each component set of plans (structures, roadway, lighting, etc.) must have a corresponding category.** In accordance with the Plans Preparation Manual (PPM), it is possible to have minor/incidental work from another design group included on the roadway plans, yet still have a separate category for pay items. Unused categories should be deleted.

Items are categorized by pay item range:

Item Numbers **(Specification Sections)**	**SUBJECT/GROUP**			TRNS*PORT Category / Design Group/ Plans
100-102	MOT			0200 Roadway
103	Temporary Structures			
104	Erosion Control	Drainage		
		Environmental		
106-108	Environmental	Coordinator		
		Water/Erosion Control		
		Air Quality		
		Decontamination/Hazardous Materials		
109	Field Office			
110-199	"Dirt" Earthwork	Roadway		
		Erosion Control		
		Topsoil/Vegetation		
200-299	Base Courses			
300-399	Surface Courses, Concrete Pavement			
except 346-347	Concrete			0100 Structures or 0200 Roadway
400-499	Structures			0100 Structures
except 425-449	Drainage Structures			0200 Roadway
500-515	Incidental Construction- Structures			0100 Structures
516-559	Incidental Construction- Roadway Items			0200 Roadway
560-569	Incidental Construction- Structural Paint			0100 Structures
570-599	Incidental Construction- Turf & Landscaping			0200 Roadway or 0600 Landscaping
600-699	Traffic Control Devices (Signals)			0500 Signals
700-714	Traffic Control			0300 Signing
715	Traffic Control- Lighting			0400 Lighting
720-740	Incidental Construction- Other			0200 Roadway
741-749	Incidental Construction- Traffic Monitoring (TMS)			
750-770	Incidental Construction- Other			
780-789	Intelligent Transportation Systems (ITS)			0550 ITS
800-899	Mass Transit (Railroad)			0900 Mass Transit
1000-1999	Utilities			0100 Structures

NOTE: While pay item ranges are generally grouped by category, some items may be used in multiple categories. Refer to the specific items for details.

Bridge Category Header: The bridge header requires information specific to each structure. **Each bridge must be loaded into a separate category**, with details specific to that bridge. With each bridge category, the Designer Interface requires that the bridge

category header information, specifically the bridge ID, be entered prior to loading/editing pay items. The following fields must be completed:

Alternate Code: leave blank unless using alternate structures. Contact your District Estimates Office for assistance when considering alternate structures.

Bridge Length (feet): Enter the total bridge length, not including approach slabs.

Bridge Width (feet): Enter the total bridge deck width, from outside to outside of traffic railing. For bridges with variable width, divide the total bridge deck area, outside to outside, by the length to obtain the average width.

Number of Spans: Enter the correct number

Bridge Type: Select the appropriate type.

Note: As of April 2005, the list of bridge types and the corresponding definitions are under review. Contact your District Estimates Engineer if assistance is needed. An updated list will be included with the October 2005 update.

Bridge ID: Enter the valid bridge number. For bridge replacements, use the new bridge ID (replacement) number, not the old number.

Note that the Structures Detailing Manual (also referenced by the PPM) recommends that the bridge ID be obtained in the early design phase. By phase 2 and phase 3 submittals, as defined in the PPM, this information must be known in order to correctly complete the TRNS*PORT pay item information.

Begin/End Termini: Not used.

Superstructure Type: Select the appropriate type; for box culverts, select “none”.

Substructure Type: Select the appropriate type; for box culverts, select “none”.

Foundation Type: Select the appropriate type; for box culverts, select “none”.

Structure Location: Select the appropriate type.

Structure Work Type: Select the appropriate type; for pedestrian overpass, select “Miscellaneous”.

Pay Item Header: Pay Item header information (description, unit of measure, etc.) is maintained by the State Estimates Office, Engineering Systems Support section. Any errors in the pay item header should immediately be brought to the attention of the State Estimates Office.

If the pay item description does meet the project needs, refer to Chapter 6 for Requesting a New Pay Item. Additional items can be created within 24 hours, pending approval of the specifications. See below for additional information regarding pay items.

9.3.3 Leading Zeros

Leading zeros for pay items are optional, except as required by the TRNS*PORT system.

Designer Web Pages / Summary of Pay Items: When entering English items 50- through 999 into the TRNS*PORT system, a leading zero must be added before the first group of digits, i.e. 102- 1 becomes 0102- 1. (A leading zero replaces the leading space **only** in the first group of digits.) Metric items and English Utility items are unaffected, as they already have four numbers in the first group of digits.

Comp Book Forms: Automated comp book forms use pay items generated by the TRNS*PORT system, and therefore will include the leading zero. (The automated comp book forms may also be used by TRNS*PORT's Site Manager module. The leading zero must be retained on these forms.)

CADD Forms: CADD forms, including tabulation sheets in the plans, will be accepted with or without the leading zero.

Other Documents: The plans, specifications, standards, and other documents, including the BOE, will continue to refer to the item numbers without the leading zero.

9.3.4 Alternates

Pay Item Alternates use a 3 character code to describe the Category, alternate group, and item(s) within the group. Using structures alternates as an example, category letter would be A. The first alternate group would be A, and the items for the alternates would start with 1. For bid items, with the above example, the alternate code might be:

AA1 Item 0450-999- 1
AA1 Item 0450-999- 2
AA1 Item 0450-999- 3
AA2 Item 0450-999- 4
AA2 Item 0450-999- 5

In the above example, the contractor would be required to bid either the AA1 or AA2 group, that is, AA1 group items 0450-999- 1, 0450-999- 2, and 0450-999- 3 OR AA2 group items 0450-999- 4 and 0450-999- 5.

If there is a need to consider alternate categories (rather than just alternate items), contact your District Estimates Office for assistance.

9.3.5 Participating/Non-Participating Field

The column labeled "Non-Part" within the designer interface screens and reports is an indicator or "flag" for those items not participating in the major funding group, as defined in PES. **Designers are no longer able to change this field.** Please consult with your District Estimates Engineer if unusual funding is anticipated.

9.3.6 Pay Items, TRNS*PORT Category, and Component Plans

Pay items within a category must correspond to the work shown in the component plans. For example, the signals items shown in the signals category/summary of pay items must correspond to the work shown in the signals plans.

Category totals are used for reporting purposes. Ensure that all work shown in a category uses the appropriate items for that category. Additional reminders are as follows:

For landscaping- all work must be detailed in the plans.

For structures- each bridge must be entered separately. All work associated with each structure must be entered accordingly.

For ITS- only projects identified by the State ITS office, with ITS funding, are to be entered with ITS pay items. (Signals projects without ITS funding should use signals items with signals plans, even for computerized or future ITS installations.)

For Signals- use signals pay items.

For lighting- use lighting pay items.

Note: Some items are valid in multiple categories; they include directional drilling, jack & bore. Some items are separated by category and specification; they include conduit (separate items for lighting, signals, ITS, and utilities), fiber optic, pull & junction boxes, electrical work, and foundations. Select the pay item appropriate for the category and work to be completed. Refer to the specifications for materials and installation requirements.

When a project does not have a roadway component (structures only, signals only, landscape only, etc.), the “roadway” pay items are loaded into the category that corresponds with the primary component plans. For example, Mobilization and Maintenance of Traffic are included in the signalization component plans & category of a “signalization project” without roadway plans. The pay items within a category will continue to correspond to the work shown in each of the component plans.

9.4 Reports

9.4.1 General

Many of the reports are available to any user with access to the Reports Menu. The reports listed below are generally used by the Designer, with the “Designer” role. Users with a “Public” role may not have access to all of the reports listed below.

The following definitions are important in TRNS*PORT.

Project: A single project, with appropriate Financial Project number, header information, funding, items, etc.

Proposal: One or more projects combined for the purpose of creating a contract for letting. Projects are “strung” only when combined to form a proposal. The District Estimates Office, according to district practices, will create proposals.

9.4.2 Project Edit Report

The **Project Edit Report is the single most important report.** It should be run at the project level after updating any items or quantities, after an update bulletin, or after a project has been idle or “shelved” for a period of time. In addition to listing the current items and quantities, this report will provide an item check based on the proposed letting date.

9.4.3 Master Pay Item List

The Master Pay Item List is a list of items currently available in the TRNS*PORT PES module. It also includes valid (effective/obsolete) dates, a Tech Spec flag, and a Reference Price from LRE. Additional items are opened upon request; refer to Chapter 6 for additional information.

Note: The Reference Price is for general information only. It is based on a weighted average, with extreme high/low values removed. It should NOT be used for project estimates, without consideration of other project conditions.

9.4.4 Proposal Summary of Pay Items (CADD)

After the District Estimates Office has created a proposal, the Designer will be able to select a Proposal Summary of Quantities from the Reports menu. After entering the proposal number, a report (.txt format) will be sent to the CADD ftp site. The designer can download and import the file according to established CADD procedures.

For early phase reviews (up to 90%, or until the proposal has been created), the Project Summary of Quantities Report must be used. (No proposal, no proposal report.) If multiple projects are anticipated to be let together, the Designer should be sure to print each project's Summary of Quantities for review. These reports may be printed on standard 8.5" by 11" paper.

For later phase reviews (90%, or after the proposal has been created), the Proposal Summary of Quantities Report should be used. After the Designer submits the report from the interface menu, the output will be sent to the CADD ftp site in 5-10 minutes.

9.4.5 Project Summary of Pay Items

This report will print in .pdf format for a specified project. This report will be used for early phase reviews. Note: If a proposal has already been created, the proposal number will be included in the report header.

9.4.6 Project Item List

This report will list the items and quantities for a given project number.

9.4.7 Pay Item Average Unit Cost

This report will provide historical project information for specific pay items. Note: The pay items must be entered individually, rather than as a group. This report is helpful when detailed project information is needed for a specific pay item.

9.4.8 Item Average Unit Cost

This report provides a historical average for a pay item range, over a specified date range. This report is helpful when general price information is needed for selected pay item(s).

9.4.9 Custom Reports

The State Estimates Office has the ability to create and/or run custom reports for user specified criteria. Please contact your District Estimates Office if custom reports are needed.

Note: Pricing for individual projects does not require a custom report. Pricing (Authorization and Official Estimate) before the letting is completed by the District Estimates Office using the TRNS*PORT CES module. Design estimates should be project specific- based on specifications, location, market area, materials, quantity, equipment, labor, and other related factors.

Chapter 9 Revision History

10-30-09: Updated header dates for 2010 edition. Updated formatting for section &

subsection titles.
1-27-09: Expanded 9.3.6 to include instructions for projects without roadway component plans.
10-1-08: Updated header dates for 2009 edition.
10-1-08: Updated 9.3.6 Pay Items, TRNS*PORT Category, and Component Plans to include examples of items/category usage.

Chapter 10
Formatting Pay Items

10.1 General

The purpose of this Chapter is to assist those responsible with maintaining the pay item structure and associated documentation. It will also assist users with understanding how/why pay items are formatted.

Much of the information in this Chapter begins as a Pay Item Request. Refer to Chapter 6 for information on completing the pay item request form.

This chapter should be considered a guide for pay items. It is not a restriction on how they may/may not be used. Each pay item should be evaluated based on the many needs of our customers: Design, Estimates, Construction, Contracts, and Management. Note that the needs of one group may be considerably different than those of another. Communication between these groups, whenever a pay item is evaluated, is essential.

10.2 Format / Legend

The pay item information shown in the online BOE is formatted as follows:

Pay Item Number	**PAY ITEM DESCRIPTION**			
	Unit		**Accuracy**	**Plan Quantity?**
Notes	**Important Notes or Dates**			
Details	Details			
Related Items	**Required**		**Recommended**	
Forms	**Design**			
	Construction			
Documentation	**Design**			
	Construction			
References	**PPM Chapter**			
	Standards			
	Specifications			
	P&DM Chapter(s)			
TRNS*PORT Category				
Status	**Tech Spec Recommended**			
Structure	**Item Description**	**Unit**		
	English Structure			
	English Structure Notes			
Structure Notes				

Pay Item Number: Each 10 digit Pay Item is structured into three parts: 1234-567-890. Spaces and/or digits may be used to detail an item.

Within the first group (first 4 digits), the leading digit indicates the unit system: 0 -English, 1 -English Utilities, 2 -Metric, 3 -Metric Utilities, 9 -Special. The remaining digits (second through fourth digits), identify the applicable Specification Section.

The remaining groups (fifth through tenth spaces/digits), are descriptive fields, as detailed for each item. These variables are described in the pay item structure below.

Pay Item Description: The Description. This description may be abbreviated on some reports, due to space constraints. The Complete (Long Description) is used whenever possible.

Unit: Unit of measure, as defined in Chapter 2. When secondary units are shown, they are intended for estimating purposes, and should be documented in the Comp Book or plans as instructed.

Accuracy: The degree of accuracy of decimal rounding for the total quantity of the item. Intermediate computations should be made to at least the next higher decimal.

Important Notes or Dates: Many pay items are blocked or opened with an effective letting date. Verify that the applicable dates correspond a project's scheduled letting date. TRNS*PORT PES will verify dates for selected pay items.

Important dates are normally shown in this field for 1 year after implementation of the change.

Detail: Description of the most common usage of the pay item, intended to assist designers with the selection of pay items. Also includes, when necessary, detailed information useful to the designer for calculating quantities and determining related pay items. Text may include "Use When…" , "Do not use when…", "Estimate xx items per…", and/or "Item(s)… are recommended/required when this item is used."

See errors & omissions below for an explanation of missing detail information.

Related Items, Recommended: Lists item numbers that are recommended, or should be considered, when using this pay item.

Related Items, Required: Lists item numbers that, under normal circumstances, are required when using this pay item.

Original, Design: Available Methods for documentation of design quantities in the plans and/or computation book, with appropriate form numbers noted.

When both a CADD and COMP book form are listed, the designer should select the appropriate form based on the item and form contents. Some forms have additional fields to detail complex lines, grades, areas, and/or other features. **Do NOT use both a CADD and COMP book form for the same item.**

Final, Construction: Required methods for detailed back-up calculations and documentation of final pay quantities, with appropriate form numbers noted.

Plan Quantity?: Indicator (Yes or No) that this item is (or is not) designated to be paid under the Plan Quantity concept, per Article 9-1.3.2 of the Specifications. Refer to specifications for measurement and payment details.

References, PPM Chapter, SDGs, Other: *This field is currently under development.* Links are provided to applicable Plans Preparation Manual Chapter(s), Structures Design Guidelines, or other design references.

FEPDM: Final Estimates Preparation and Documentation Manual reference chapter number(s), when applicable.

Standards: Indicates the index sheet number(s) for the applicable Design Standards. When listed, the pay item must be used in accordance with the referenced standard. Contact the BOE Coordinator and/or Responsible Office for non-standard applications. Non-standard applications may be required to use a different pay item number.

Specifications: *This field is currently under development*. Links are provided to current Standard Specifications (Specifications Book) and/or current workbook. These links are for reference purposes only; the designer is responsible for using applicable specifications, as available from the State Specifications Office. Contact your District Specifications Office for further assistance.

Plan Detail and/or Tech Spec recommended: Coordinate with your District Specifications Office. If blank, a Tech Spec is not normally necessary.

NOTE: If the current specifications do not appropriately cover the work necessary for a given project, a plan detail and/or Tech Spec may be necessary. Standard Specifications DO NOT normally cover “custom”, “modify”, “special”, or “relocate”, as these are project specific situations. Plan Details and/or Tech Specs will be required. Remember- complete specifications for each pay item include a description of the work, materials and/or equipment required, construction or performance requirements, method of measurement, and basis of payment.

Status: Indicates the status of the Item Structure. Refer to Chapter 6 for assistance with items that are not currently open in the Master File.

TRNS*PORT Category: This is the recommended TRNS*PORT category for normal usage of the pay item. Pay items within a category must correspond to the work shown in the component plans. Additional details are included in Chapter 9 for loading pay items into TRNS*PORT.

When an item is used outside of the recommended category, the designer and reviewer should consider whether the appropriate item is used, in accordance with the specifications (signals items used for signals work, lighting items used for lighting work, etc.)

10.3 Pay Item Structure

The Pay Item Structure may vary between items, but the intent is to define the operation and variables needed to pay for the work and/or materials provided.

Pay Item Structure Item Description Unit
Pay Item Structure- Operations and other variables
Notes

Common Operations- refer to individual items as needed:

1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove & Dispose)
7 (Remove & Stockpile)
8 (Plug & Place out of service)
9 other item specific operation, as needed

FURNISH & INSTALL: Includes all work and materials necessary for a complete installation in accordance with the contract documents (plans, specs, standards, etc.).

FURNISH: To be used ONLY with approval of ____. Do not furnish additional items to DOT maintenance yards using construction funds. When requested, and funded by the maintaining agency, the furnish only item may be used. Plans or specifications must detail instructions for delivery of item(s) to the maintaining agency. Do not use separate “Furnish” and “Install” pay items for the same item of work.

INSTALL: To be used ONLY when the item is to be furnished by the Department or other maintaining agency. Plans or specs should clearly identify the item(s) to be installed, pick-up/delivery instructions, as well as installation instructions. Payment includes any incidentals necessary (furnished by the Contractor) for a complete installation.

RELOCATE: Ensure that the existing item is in good condition; may not be cost effective to relocate an old/obsolete item. Plans or specs should clearly identify the item and initial/final locations. As needed, detail incidental items to be furnished by the Contractor for a complete installation. Clearly identify conditions under which item replacement (damaged by contractor) is needed.

ADJUST/MODIFY: Detail minor work to be completed by the Contractor. Incidental items to be furnished by the Contractor.

REMOVE: Plans or specs should identify if contractor is to take ownership, stockpile, or deliver item(s) to a FDOT maintenance yard.

REMOVE & DISPOSE (Contractor takes ownership): Plans or specs should identify limits of item to be removed: incidental components, foundation, wiring, or other work.

REMOVE & STOCKPILE (DOT/maintaining agency retains ownership): Plans or specs should identify if contractor is to stockpile or deliver item(s) to a FDOT maintenance yard.

PLUG & PLACE OUT OF SERVICE: Plans or specs should identify materials and work to be completed.

SPECIAL/CUSTOM: To be used only when there is a significant deviation from the standard item or work to be completed: existing specifications and/or standards do not apply. Complete details including description, materials, installation, maintenance, method of measurement, and basis of payment are to be included in the plans or specifications.

10.3 Pay Item Ranges and Other Variables

The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where variables a through f are detailed as needed. Parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item variables for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results (i.e., more items, less history per item).

Ranges are established to combine items/sizes with similar installed costs. When a pay item range is used, the designer must specify the specific size/shape needed on the plans and/or tabulation sheet(s). Ranges are not intended as a “contractor’s option”.

For most reports, including the Master Pay Item List and Pay Item Summary, descriptive information, such as size, shape, and color, will be included after the primary description. The title and/or description may be abbreviated on various reports, as necessary.

Currently open pay item combinations are shown following the pay item structure. For additional information on opening or requesting new pay items, refer to Chapter 6.

10.4 Where to Find It

As noted above, the first 3 digits of the pay item corresponds to the applicable specification section. The following table is helpful for finding the pay item group. Note that it does not include all possible section numbers; it is only a guide help identify "Where to find it…"

Pay Item Group/ Specification Section	**Description, including key words for searches**
101	Mobilization
102	Maintenance of Traffic
104	Erosion Control
110	Clearing and Grubbing
120-175	Excavation, Embankment, and other Earthwork
200s	Base Courses
300-341	Bituminous Mixtures, Milling, Superpave, Friction Courses
346-347	Portland Cement Concrete
350-353	Concrete Pavement
400	Concrete Structures
415	Reinforcing Steel
425-449	Drainage: Inlets, Manholes, Junction Boxes, Pipe, Trench Drain, Underdrain, French Drain, Edgedrain
450	Precast, Prestressed Concrete
455	Structures Foundations: Piling, Drilled Shafts
470	Timber Structures
508-510	Movable Bridges: Navigation Lights, Machinery
520s	Concrete Gutter, Curb, Barriers, Traffic Separator, Sidewalk
523	Patterned/Textured Pavement
530	Riprap
534	Sound Barriers
536-538	Guardrail
550	Fencing
555-557	Directional Bore, Vibratory Plowing, Jack & Bore
570-580	Grassing, Seeding, Sodding, Landscaping, Trees, Plants
600s	Signalization: Conduit, Mast Arms, Detectors, Cabinets
700-705	Signing, Delineators
710-714	Pavement Markings: Paint, Thermo
715	Lighting: Poles, Conduit,
780s	Intelligent Traffic Systems (ITS)
800s	Mass Transit
900s	Special, Developmental, Trial Items

10.5 Errors, Omissions, Comments

The Engineering Systems Support Section of the State Specifications and Estimates Office maintains the Basis of Estimates, Pay Item Structure, as well as the Master Pay Item List(s). Details, notes, and documentation information is based on information provided with the pay item request. When a detail is missing or incomplete, you may contact the responsible coordinator (listed in Chapter 5), or submit a recommendation via e-mail. Links are provided within the BOE pages on the Specifications and Estimates Office web pages at http://www.dot.state.fl.us/specificationsoffice/ .
While we make every effort to provide the most current information, pay items and related FDOT handbooks/manuals are continuously developing.

If an error is found with any of the BOE content, please notify the State Specifications and Estimates Office- Engineering Systems Support Section.

We appreciate your comments and suggestions.

Chapter 10 Revision History

10-30-09: Updated header dates for 2010 edition.
9-16-09: Added 10.3 Pay Item Structure, with guidance on common operations. Corrected Office and web links to “State Specifications and Estimates Office”.
1-28-09: Expanded 10.2 to include TRNS*PORT Category.
10-1-08: Updated header dates for 2009 edition.

50- A- DESIGN / BUILD

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details This item to be used for Districts letting Design-Build projects. This item to be used only when identified by the District as a "Design-Build" project. Include Initial Contingency Amount under 999- 25 (2999- 25) item.

When multi-category work is called for, use the pay item structure that represents the largest percentage of the total dollars."

Related Items **Required** 999- 25 (2999- 25) **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Contractor is responsible for design. The computation book, if required, will show lump sum tasks (lump sum constructed project pay items), as listed in the proposal.

Construction Any adjusted final quantities for the lump sum payment will require appropriate documentation and Supplemental Agreements. The "as-built" final plans must show any additions/deletions that occurred on the project.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 11

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **50- A-** **DESIGN / BUILD** **LS/LS**

A= Operation
1 (Resurfacing)
2 (Roadway Construction)

4 (Bridge Construction)
5 (Buildings/Toll Facilities/Rest Areas/Service Plaza)
6 (Traffic Operations)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0 50 1	DESIGN - BUILD, RESURFACING	LS	T	1/1/2010	
0 50 2	DESIGN / BUILD, ROADWAY	LS	T	1/1/2010	
0 50 4	DESIGN / BUILD, BRIDGE CONSTRUCTION	LS	T	1/1/2010	
0 50 5	DESIGN / BUILD, BUILDING / TOLL FACILITY/ REST AREA / SERVICE PLAZA	LS	T	1/1/2010	
0 50 6	DESIGN / BUILD, TRAFFIC OPERATIONS	LS	T	1/1/2010	

101- 1- MOBILIZATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Consists of work and operations necessary to begin work on a project. Includes moving in equipment and personnel, establishing temporary offices, safety equipment and sanitary facilities. May include surveying, bond and insurance expenses. In some cases, may consist of security services and/or expenses associated with night work.
For contracts with more than one project, the pay item for Mobilization will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA): the Mobilization will not be shown on the Summary of Pay Items for the JPA; the cost of Mobilization will be included in the prime project.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities
COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 101

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **101- 1-** **MOBILIZATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0101 1	MOBILIZATION	LS		1/1/2010	

102- 1- MAINTENANCE OF TRAFFIC

Unit LS/DA **Accuracy** Lump Sum (Day) **PlanQuantity?** yes

Notes

Details Includes all items required to safely maintain traffic throughout a transportation work zone with minimal inconvenience to the public and fit into one of the following categories:
1) cannot reasonably be quantified;
2) cannot be addressed under current pay items;
3) are incidental to the operations necessary to safely maintain traffic throughout a work zone.
Code the second unit of measure (number of days) from the construction day estimate.

For contracts with more than one project, the pay item for Maintenance of Traffic will be shown on each project's Summary of Pay Items. An exception to this is when the contract

contains a Joint Project Agreement (JPA): the Maintenance of Traffic will not be shown on the Summary of Pay Items for the JPA; the cost of Maintenance of Traffic will be included in the prime project.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	Index No. 600
	Specifications	Section 102
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 1-** **MAINTENANCE OF TRAFFIC** **LS/DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 1	MAINTENANCE OF TRAFFIC	LS		1/1/2010	

102- 2- AA SPECIAL DETOUR

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Consists of work and materials necessary to construct a diversion (Temp Roadway). May also include temporary bridge (Acrow panel, or similar.) The quantities for major items necessary for the Special Detour shall be shown in the plans but paid for under Special Detour. Items that will be used in the Special Detour that will remain as part of the final product will be paid for under the appropriate pay item (i.e., earthwork). Show the limits of each Special Detour in the plans. Traffic control devices, warning devices, barriers, signing and pavement markings will be paid for separately.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 2- AA** **SPECIAL DETOUR** **LS/LS**

AA = Detour Number
1 (First Detour Of Several)
2 (Second Detour Of Several)
3 (Third Detour Of Several)
4 (Fourth Detour Of Several)
N (Nth Detour Of Several)
N = 1 Thru 30

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 2 1	SPECIAL DETOUR 1	LS		1/1/2010	
0102 2 2	SPECIAL DETOUR 2	LS		1/1/2010	
0102 2 3	SPECIAL DETOUR 3	LS		1/1/2010	
0102 2 4	SPECIAL DETOUR 4	LS		1/1/2010	
0102 2 5	SPECIAL DETOUR 5	LS		1/1/2010	
0102 2 6	SPECIAL DETOUR 6	LS		1/1/2010	
0102 2 7	SPECIAL DETOUR 7	LS		1/1/2010	
0102 2 8	SPECIAL DETOUR 8	LS		1/1/2010	
0102 2 9	SPECIAL DETOUR 9	LS		1/1/2010	
0102 2 10	SPECIAL DETOUR 10	LS		1/1/2010	
0102 2 11	SPECIAL DETOUR 11	LS		1/1/2010	
0102 2 12	SPECIAL DETOUR 12	LS		1/1/2010	
0102 2 13	SPECIAL DETOUR 13	LS		1/1/2010	
0102 2 14	SPECIAL DETOUR 14	LS		1/1/2010	
0102 2 15	SPECIAL DETOUR 15	LS		1/1/2010	
0102 2 16	SPECIAL DETOUR 16	LS		1/1/2010	
0102 2 17	SPECIAL DETOUR 17	LS		1/1/2010	
0102 2 18	SPECIAL DETOUR 18	LS		1/1/2010	
0102 2 19	SPECIAL DETOUR 19	LS		1/1/2010	
0102 2 20	SPECIAL DETOUR 20	LS		1/1/2010	
0102 2 21	SPECIAL DETOUR 21	LS		1/1/2010	
0102 2 22	SPECIAL DETOUR 22	LS		1/1/2010	
0102 2 23	SPECIAL DETOUR 23	LS		1/1/2010	
0102 2 24	SPECIAL DETOUR 24	LS		1/1/2010	
0102 2 25	SPECIAL DETOUR 25	LS		1/1/2010	

0102 2 26	SPECIAL DETOUR 26	LS	1/1/2010
0102 2 27	SPECIAL DETOUR 27	LS	1/1/2010
0102 2 28	SPECIAL DETOUR 28	LS	1/1/2010
0102 2 29	SPECIAL DETOUR 29	LS	1/1/2010
0102 2 30	SPECIAL DETOUR 30	LS	1/1/2010

102- 3- COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details

Consists of furnishing and placing suitable material which may be necessary for providing safe access to businesses and residences affected by the construction. If authorized, portions of this material may be salvaged and reused at other driveways along the length of the project.

Quantity Estimation: Use 250 cubic yards per mile (200 cubic meters per kilometer) on rural projects and 500 cubic yards per mile (400 cubic meters per kilometer) on urban projects. Use 250 cubic yards (200 cubic meters) as a minimum.

Per the specification, "The quantity to be paid for will be the certified volume, in cubic yards, of all materials authorized by the Engineer, acceptably placed and maintained for driveway maintenance. The volume, which is authorized to be reused, and which is acceptably salvaged, placed, and maintained in other designated driveways will be included again for payment."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 3-** **COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY		1/1/2010	

102- 11- SERVICE PATROL- ROAD RANGER OR SIMILAR

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes

Details

Used when it is determined during design that an active service patrol ("Road Ranger" or similar service) will be needed to keep traffic flowing. The Traffic Control Plan (TCP) or Technical Special Provisions should explain when and where the service patrol will be needed, as well as what type of services will be provided, and what type of service vehicle will be needed. Time shall be based on an 8 hour day.

Coordinate services with District Office(s) that may have a Road Ranger service in effect- Maintenance, Operations, Construction, or other. Do not duplicate services that are available under a separate contract. Refer to Traffic Operations web page for additional information on Road Ranger services.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction All field records are required for this item. Final payment is based on field book/records.

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 11-** **SERVICE PATROL- ROAD RANGER OR SIMILAR** **MH**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 11	SERVICE PATROL- ROAD RANGER OR SIMILAR	MH	D	1/1/2010	

102- 14- TRAFFIC CONTROL OFFICER

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes **Refer to 999-102 for Speed/Law Enforcement**

Details ***** LIMITED USE ; read details below *****

Provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling and directing traffic in the work zone ONLY when the following types of work is necessary on projects:
*traffic control in a signalized intersection when signals are not in use,
*when standard index no. 619 is used on Interstate at nighttime and called for in the plans,
*when standard index no. 625 or 655 are used,
*when traffic pacing is called for in the plans or approved by the Engineer, or
* when pulling conductor/cable above an open traffic lane on limited access facilities, when called for in the plans or approved by the Engineer.

The Department will include pay item 102- 14 for officers directing traffic as defined above. For Speed and Law Enforcement officers, see pay item 999-102

Related Items **Required** **Recommended** 999-102-xxa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-50

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction All field records are required for this item. Final payment is based on field book/records.

References **PPM Chapter**

Other

Standards Index No. 600, 619, 625, 655

Specifications Section 102

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 14-** **TRAFFIC CONTROL OFFICER** **MH**

Notes Refer to 999-102 for Speed/Law Enforcement

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 14	TRAFFIC CONTROL OFFICER	MH	T	1/1/2010	

102- 60- WORK ZONE SIGN

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Used for the purpose of informing motorists of the work zone and work zone related (i.e. temporary regulatory or temporary route) conditions that will be encountered. Tabulate the number of individual sign panels (20 square feet or less)/(1.9 square meters or less) as recorded per day for each phase of the project. When multiple signs are located together on a single or multiple posts, each sign panel will be paid for individually.

Non-standard sign panels, including Project Information Signs, (greater than 20 square feet)/(greater than 1.9 square meters) will be detailed in the plans and paid for under

Maintenance of Traffic, Lump sum.

Refer to PPM (Plans Preparation Manual) Vol 1, Chapter 10 for additional information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 60-** **WORK ZONE SIGN** **ED**

Notes Signs LESS THAN 20 ft² only- see details above

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 60	WORK ZONE SIGN	ED		1/1/2010	

102- 61- BUSINESS SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2011, not needed for resurfacing type projects. See detail below.**

Details Used to assist motorists with finding the appropriate business driveway entrance while the roadway is under construction. The quantity is based on one business sign for each business whose driveway entrance could be affected. When several businesses share a common driveway, one sign per common driveway should be estimated.

Effective January 2011: Per Index 600, Business entrance signs are intended to guide motorist to business entrances moved/modified or disturbed during construction projects. Business entrance signs are not required where there is minimal disruption to business driveways such as with resurfacing type projects.

Per the specifications, "Provide and place signs in accordance with the plans and Design Standards. The maximum sign size is 24 by 36 inches.
Use signs with specific business names on each sign. Install logos provided by business owners and approved by the Engineer. Standard Business entrance signs meeting the requirements of Index 17355 without specific business names may be used only with the approval of the Engineer."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Documentation

Construction 700-050-51

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 61-** **BUSINESS SIGN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 61	BUSINESS SIGN	EA		1/1/2010	

102- 71- AB TEMPORARY BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Included for the protection of the traveling public and workers. May be moved from one location to another on the project. Estimate length of wall needed for each phase, and then choose the maximum length anticipated for any one phase to be paid for as Temporary Barrier. Phasing in plans must indicate adequate quantity of barrier prior to calling for relocating of barrier. Add the estimated lengths for the remaining phases together and pay for under Barrier Wall (Temporary) Relocate. When this item is used, include lights or glare screen.

For example:
200 LF needed for phase 1 = 200 LF F&I
300 LF needed for phase 2 = 100 LF left in place from phase 1 (no movement; no payment) +100 LF Relocated from phase 1 +100 LF F&I
150 LF needed for phase 3 = 150 LF relocated from phase 2 (remaining quantity stockpiled; no payment)
400 LF needed for phase 4 = 300 LF relocated from earlier phase(s) or stockpile + 100 LF F&I
200 LF needed for phase 5 using phase 4 wall in existing location = 0 LF relocated (remaining quantity stockpiled, if needed for later use)
Note: No separate payment for "removal" or "stockpiling"

Maximum quantity F&I for above example: 400 LF
Relocate paid when moved to a new phase, NOT when removing or stockpiling.

QPL- Temporary barrier wall shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

NOTE: For bridge applications, ONLY Type K permitted.

Related Items **Required** 102- 79 or 102- 94-xab **Recommended** 102- 81- 1, and/or 102- 89-xxa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards see detail

Specifications Section 102

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 71- AB** **TEMPORARY BARRIER WALL** **LF**

A = Operation
1 (Furnish & Install)
2 (Relocate)

B = Material
1 (Concrete)
2 (Water filled)
3 (Low Profile Concrete)
4 (Type K) bridge applications

Notes Effective 1/04 letting: B= 3, 4

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 71 11	BARRIER WALL, TEMPORARY, F&I, CONCRETE	LF		1/1/2010	
0102 71 12	BARRIER WALL, TEMPORARY, F&I, WATERFILLED	LF		1/1/2010	
0102 71 13	BARRIER WALL, TEMPORARY, F&I, LOW PROFILE, CONCRETE	LF		1/1/2010	
0102 71 14	BARRIER WALL, TEMPORARY, F&I, TYPE K	LF		1/1/2010	
0102 71 21	BARRIER WALL, TEMPORARY, RELOCATE, CONCRETE	LF		1/1/2010	
0102 71 22	BARRIER WALL, TEMPORARY, RELOCATE, WATERFILLED	LF		1/1/2010	
0102 71 23	BARRIER WALL, TEMPORARY, RELOCATE, LOW PROFILE, CONCRETE	LF		1/1/2010	
0102 71 24	BARRIER WALL, TEMPORARY, RELOCATE, TYPE K	LF		1/1/2010	

102- 73- TEMPORARY GUARDRAIL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For Temporary applications, use in accordance with Index 400. Payment includes installation, maintenance, and removal of guardrail.

For permanent applications, refer to 536 items.

Per the specification, "The quantity to be paid for will be the length, in feet, of temporary guardrail constructed and certified as installed/used on the project. The length of a run of guardrail will be determined as a multiple of the nominal panel lengths."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 73-** **TEMPORARY GUARDRAIL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 73	TEMPORARY GUARDRAIL	LF		1/1/2010	

102- 74- A TEMPORARY BARRICADE/CHANNELIZING DEVICE

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Included for the protection of workers and the public from hazards within the traffic control zone. The designer is NOT to add plan notes specifying one type of barricade/channelizing device (Type I, II, DI, VP, or Drum).

DI = Direction Indicator Barricade, shown on Index 600.
VP= Vertical Panel

Estimate for each Traffic Control Plan phase based on the type of operation and duration anticipated as follows: Quantity= (Length of Setup / Spacing) X Phase Duration.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 74- A** **TEMPORARY BARRICADE/CHANNELIZING DEVICE** **ED**

A = Type
1 (Types I, II, DI, VP & Drum)
2 (Type III- 6')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 74 1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	ED		1/1/2010	
0102 74 2	BARRICADE, TEMPORARY, TYPE III, 6'	ED		1/1/2010	

102- 76- ADVANCE WARNING ARROW PANEL

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Included for the purpose of providing advanced warning of a lane closure. (Not intended for lane shifts.) Estimate the number needed for each Traffic Control Plan phase times the phase duration.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 76-** **ADVANCE WARNING ARROW PANEL** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 76	ADVANCE WARNING ARROW PANEL	ED		1/1/2010	

102- 77- HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details

Included as a safety device, to draw attention to the warning sign. The lights shall be mounted on the first advanced post mounted warning sign where only one sign is used, and on the first and second advanced post mounted warning signs where two or more signs are used. This applies to all approaches to any work zone. When this item is used, item 102- 60 (2102- 60) must be used.

Refer to the PPM for Warning Lights.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 10.

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 77-** **HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 77	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	ED		1/1/2010	

102- 78- TEMPORARY RETROREFLECTIVE PAVEMENT MARKER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Class A, B, D, or E RPMs used to supplement pavement markings, as shown in Index 600.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600, 17352

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 78-** **TEMPORARY RETROREFLECTIVE PAVEMENT MARKER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		1/1/2010	

102- 79- TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details These lights are placed on Barrier Wall (Temp), excluding low profile. The standard spacing will be:
50' on centers for transitions, 100' on centers for curves, 200' on centers tangents (15 meters on centers for transitions, 30 meters on centers for curves, 60 meters on centers for tangent);
Curves that are flat enough to maintain a normal 2% cross slope shall have spacing equal to that of a tangent.
QPL- Temporary barrier wall mount lights shall conform to the requirements of the pre-approved alternatives for temporary concrete or water filled barrier wall listed on the Department's Qualified Products List (QPL).

Barrier mounted wall lights will not be required when glare screen is used.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards see detail

Specifications Section 102

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 79-** **TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 79	LIGHTS,BARRIER WALL MOUNT,TEMP,TYPE C,STEADY BURN	ED		1/1/2010	

102- 81- 2 TEMPORARY CRASH CUSHION -GATING

Unit LO **Accuracy** Location **PlanQuantity?** no

Notes

Details Formerly known as "Impact Attenuator Modules"
Roadway Design permission needed before "sand barrels" may be used; requires special design
QPL- Temporary Gating Crash Cushions shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 417, see detail

Specifications Section 102

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 81- 2** **TEMPORARY CRASH CUSHION -GATING** **LO**

Notes Contact Cheryl Adams prior to use. Project specific conditions must be reviewed.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102- 89- A TEMPORARY CRASH CUSHION

Unit LO **Accuracy** Location **PlanQuantity?** no

Notes

Details Payment will be made based on each location of the crash cushion/attenuator. Redirective cushions selected by contractor, subject to Design Standards. Restricted options to be detailed in plans and documented in project file.
QPL- Temporary Redirective Crash Cushions shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

Formerly known as "Impact Attenuators"

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards See detail; Index No. 415, 430

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 89- A** **TEMPORARY CRASH CUSHION** **LO**

A = Type
7 (Redirective Option)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 89 7	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO		1/1/2010	

102- 94- AB GLARE SCREEN

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details See barrier wall detail for measurement. This item is used with Temporary Barrier Wall (Concrete).

Refer to specification from QPL requirements.

When glare screen is used, barrier mounted lights will not be required.

Related Items **Required** 102- 71-xab **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 102

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 94- AB** **GLARE SCREEN** **LF**

A = Operation
Blank (Furnish and Install)
1 (Relocate)

B = Wall Material
1 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 94 1	GLARE SCREEN, TEMPORARY, F&I, WALL MATERIAL-CONCRETE	LF		1/1/2010	
0102 94 11	GLARE SCREEN, TEMPORARY, RELOCATE, WALL MATERIAL- CONCRETE	LF		1/1/2010	

102- 98- A BARRICADE TYPE III- TO REMAIN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 98- A** **BARRICADE TYPE III- TO REMAIN** **EA**

A = Size
2 (6 Feet)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 98 2	BARRICADE TYPE III -TO REMAIN, 6'	EA		1/1/2010	

102- 99- PORTABLE CHANGEABLE MESSAGE SIGN- TEMPORARY

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Should be considered for use in complex, high-density work zones. Messages must be simple, with a minimum number of words and lines, and should require no more than two displays of no more than three lines each. The Traffic Control Plan (TCP) shall include the location and messages to be displayed. Refer to the PPM for message guidelines and acceptable abbreviations.

Estimate the number needed for each traffic control plan phase, times the number of days needed (phase duration). May be used 14 days before contract time begins, as authorized by the Engineer. Not to be used when standard signs are available. Refer to the Plans Preparation Manual for proper usage.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 10

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 99-** **PORTABLE CHANGEABLE MESSAGE SIGN-** **ED**

TEMPORARY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY (VARIABLE MESSAGE SIGN)	ED		1/1/2010	

102-104- A TEMPORARY TRAFFIC CONTROL SIGNAL

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Estimate based on the number of completed installations (each signalized location) in operation on the project.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 606

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-104- A** **TEMPORARY TRAFFIC CONTROL SIGNAL** **ED**

A = Type
1 (Portable)
2 (Fixed)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102104 1	TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL	ED		1/1/2010	
0102104 2	TEMPORARY TRAFFIC CONTROL, FIXED SIGNAL	ED		1/1/2010	

102-107- TEMPORARY TRAFFIC DETECTION, INTERSECTION

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details Identify intersections where required. Estimate number of intersections times number of

contract days. Do not include "new" intersections. Payment will be for number of days Temp Traffic Detection Technology is used and authorized by Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 102

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-107-** **TEMPORARY TRAFFIC DETECTION, INTERSECTION** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102107	TEMPORARY TRAFFIC DETECTION, INTERSECT	DA		1/1/2010	

102-150- 1 PORTABLE REGULATORY SIGN

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details This device is part of the Motorist Awareness System (MAS). Design should work with Construction to determine the estimated days for each component of the motorist awareness system to be included in the contract.
Portable Regulatory Sign (PRS): The purpose of this device is to highlight the regulatory speed for the work zone. A PRS is a trailer that has the regulatory sign mounted with flashing lights on each side of the sign. The lights are used to draw the driver's attention to the regulatory speed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 670

Specifications Section 102

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-150- 1** **PORTABLE REGULATORY SIGN** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102150 1	PORTABLE REGULATORY, SIGN	ED		1/1/2010	

102-150- 2 RADAR SPEED DISPLAY UNIT

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details This device is part of the Motorist Awareness System. Refer to item 102-150- 1 for additional detail information.
Radar Speed Display Unit (RSDU): The purpose of this device is to display the motorist's work zone speed. A radar speed display unit is a portable trailer that displays the speed of approaching motorists on a LED display panel. The radar mounted on the unit detects the speed. A regulatory sign with the posted speed is mounted above the LED display panel. The unit is fitted with a device which counts the number of vehicles passing the Radar Speed Display Unit. The counter device is capable of: digital readout of the total number of vehicles passing the radar speed display unit, and digital readout of the number of vehicles exceeding the speed limit shown on the radar speed display unit. The device can be set that only speeds greater than the work zone speed are displayed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 670

Specifications Section 102

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-150- 2** **RADAR SPEED DISPLAY UNIT** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102150 2	RADAR SPEED DISPLAY UNIT	ED		1/1/2010	

102-910- TEMPORARY RAISED RUMBLE STRIP SET

Unit PS **Accuracy** Per Set **PlanQuantity?** no

Notes **FUTURE USE, PENDING SPECIFICATION APPROVAL. DO NOT OPEN UNTIL SPECIFICATION IS AVAILABLE.**

Details

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **102-910-** **TEMPORARY RAISED RUMBLE STRIP SET** **PS**

Notes FUTURE USE, PENDING SPECIFICATION APPROVAL. DO NOT OPEN UNTIL SPECIFICATION IS AVAILABLE.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102-911- A REMOVABLE TAPE PAVEMENT MARKING - WHITE/BLACK

Unit LF; M1; SF; M2 **Accuracy** Linear Foot; 1/10 Meter; Square Foot; Square Meter **PlanQuantity?** no

Notes

Details Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

OTHER (SF): Pay item 102-911- 3 (2102-911- 3) is used for stop bars, turn arrows, etc.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-911- A** **REMOVABLE TAPE PAVEMENT MARKING - WHITE/BLACK** **LF; SF**

A = Type
1 (Skip) LF
2 (Solid) LF
3 (Other) SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102911 1	PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, SKIP	LF		1/1/2010	
0102911 2	PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK,SOLID	LF		1/1/2010	
0102911 3	PAVEMENT MARKING REMOVABLE TAPE, WHITE-BLACK, OTHER	SF		1/1/2010	

102-912- A REMOVABLE TAPE PAVEMENT MARKING - YELLOW

Unit LF; M1; SF; M2 **Accuracy** Linear Foot; 1/10 Meter; Square Foot; Square Meter **PlanQuantity?** no

Notes

Details Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications Section 102

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-912- A** **REMOVABLE TAPE PAVEMENT MARKING - YELLOW** **LF; SF**

A = Type
1 (Skip) LF
2 (Solid) LF
3 (Other) SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0102912 1	PAVT MARKING REMOVABLE TAPE, YELLOW, SKIP	LF		1/1/2010	
0102912 2	PAVEMENT MARKING REMOVABLE TAPE, YELLOW, SOLID	LF		1/1/2010	
0102912 3	PAVEMENT MARKING REMOVABLE TAPE, YELLOW, OTHER	SF		1/1/2010	

103- 1- A TEMPORARY WORK STRUCTURE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes **Monitor: Robert Robertson, State Structures Design Engineer**

Details M= Monitored Item.
Coordinate with the State Structures Design Office on the use of this item.

The plans shall include drawings depicting the construction methods assumed in the preparation of the plans. The designer shall determine if a temporary structure (temporary bridges, platforms, etc.) is needed to furnish the contractor with access to the site to enable the bridge to be built. When a temporary structure is required, the anticipated structure type will be shown in the plans.

Temporary Structures will be paid separately only if they are required for access or to comply with permit restrictions. If access is available by including, but not limited to, barges, mats, or existing ground, no temporary structure is required.

State Structures Office must request unblock pay item structure.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities
COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 103

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **103- 1- A** **TEMPORARY WORK STRUCTURE** **LS/LS**

A= Project Number
1 (valid through 12-31-2008; for any project)
2…next number (project number, as approved by State Structures Design Office)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0103 1 6	TEMPORARY WORK STRUCTURE, PROJECT NUMBER 256903-1-52-01	LS	M	1/1/2010	10/30/2014
0103 1 7	TEMPORARY WORK STRUCTURE, PROJECT NUMBER 218946-1-52-01	LS	M	1/1/2010	

104- 1- ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details

This item may be used for several purposes. Estimate and/or calculate according to the following information. The total quantity is the sum used for the applicable purposes below. Tabulate the quantity and purpose of each in the plans. Install the product(s) in accordance with the Erosion and Sediment Control Manual.

FOR PAUSES IN CONSTRUCTION: Used for pauses in construction due to inclement weather or other circumstances. For this purpose, artificial coverings may be composed of natural or synthetic fiber mats, plastic sheeting or netting. Estimate 1% of the total permanent grassing area, where the total grassing area is defined as the sum of the seeding + seeding and mulching + sodding areas. Coverings used for this purpose are typically removed when construction resumes.

FOR EROSION CONTROL: Used for erosion control that facilitates plant growth, while permanent grass is established. Biodegradable erosion control blankets are installed over a seeded area and may be used on fill slopes and in ditches, and left in place to biodegrade. Show in plans (plan view or tabulation of quantities) the locations where erosion control blankets are to be used. Calculate the quantity in square yards (square meters).

FOR DRAINAGE CHANNEL: Use the E&SC Manual Selection Guide to determine the correct product type. Shear Stress and velocity calculations must be completed, as shown in the E&SC manual.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications Section 104
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 1-** **ARTIFICIAL COVERINGS/ROLLED EROSION CONTROL PRODUCTS** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 1	ARTIFICIAL COVERINGS /ROLLED EROSION CONTROL PRODUCTS	SY		1/1/2010	

104- 4- MOWING

Unit AC; HA **Accuracy** 1/10 Acre; 1/10 Hectare **PlanQuantity?** no

Notes **Valid through June 2010. Replaced by 107 items. Refer to Estimates/Roadway Design Bulletin for details.**

Details DO NOT USE THIS ITEM WITH SECTION 570- PERFORMANCE TURF.

This item is included for routine maintenance of existing, permanent, and temporary grassing until the project is completed.

Coordinate the use of this item with Sections 570 and 580. DO NOT use this item when payment for mowing is to be made under Section 570. When 570 items are used, all mowing, including undisturbed areas within project limits, is included under payment for 570 items.

Estimated Design Quantity: Use total grassed area, plus any other undisturbed areas within the project limits that need to be mowed during the life of the contract. Obtain the mowing cycle from the local Maintenance Office; multiply the area by the number of mowing cycles to be performed during the life of the contract. Convert units to acres (hectares), as necessary. Detail calculations in the comp book.

Related Items **Required** **Recommended** 570-1-A, 580-1-A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 4-** **MOWING** **AC**

Notes DO NOT USE THIS ITEM WITH SECTION 570- PERFORMANCE TURF

Effective July 2010, refer to Section 107 items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 4	MOWING	AC		1/1/2010	6/30/2010

104- 5- SANDBAGGING

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes **Item valid through December 2009 letting. Refer to Estimates Bulletin 09-02 and Specification for replacement item(s).**

Details Included for the purpose of controlling erosion and siltation. Use 12"x24"x6" bags (0.3 x 0.6 x 0.15 meter bags). Refer to index for applications and estimated quantity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 100, 102, and 201
(see Index modifications for July 2010; Index 100 and 102 are deleted.)

Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 5-** **SANDBAGGING** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

104- 6- TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Pay Item Description changed to Runoff Control Structure. Refer to Specification for current usage.**

Details Refer to the Erosion and Sediment Control manual (E&SC manual) for correct use of this

item. Runoff Control Structures include temporary slope drains and check dams. All items shown in the manual or design standard are included in the payment, per length, along the centerline of the structure.

Related Items **Required** **Recommended** 104- 5, 575- 5 (2104-5, 2575-5)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 100 (see Index modifications for July 2010; Index 100 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 6-** **TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 6	TEMPORARY SLOPE DRAIN / RUNOFF CONTROL STRUCTURE	LF		1/1/2010	

104- 7- SEDIMENT BASIN/CONTAINMENT SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Refer to Estimates Bulletin 09-02 and E&SC manual for correct usage.**

Details Refer to the Erosion and Sediment Control manual (E&SC manual) for correct use of this item. These systems work to retain sediment, as well as to slow water velocities. Payment will include all items shown in the plans or E&SC manual, for a complete system.

Cleanings to maintain the system will be paid under pay item 104-9.

Related Items **Required** **Recommended** 104- 9- (2104- 9-)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 101, 241
(see Index modifications for July 2010; Index 101 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 7-** **SEDIMENT BASIN/CONTAINMENT SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 7	SEDIMENT BASIN / CONTAINMENT SYSTEM	EA		1/1/2010	

104- 9- SEDIMENT BASIN/ CONTAINMENT SYSTEM-CLEANOUT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Refer to Estimates Bulletin 09-02 and E&SC manual for correct usage.**

Details Estimate one cleanout per sediment Basin/Containment system, Item 104- 7 (2104- 7), on the project.

Sediment shall be removed or "cleaned-out" from the basin/containment system, as indicated in the plans, or as directed by the Engineer. Actual number of cleanings will depend on project conditions, as necessary to maintain the containment system(s).

Related Items **Required** **Recommended** 104- 7- (2104- 7-)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 101
(see Index modifications for July 2010; Index 101 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 9-** **SEDIMENT BASIN/ CONTAINMENT SYSTEM-CLEANOUT** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 9	SEDIMENT BASIN / CONTAINMENT SYSTEM- CLEANOUT	EA		1/1/2010	

104- 10- 2 SYNTHETIC BALES

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Valid through 12-31-09; replaced by Sediment Barrier. Refer to Estimates Bulletin 09-02 for additional information.**

Details Consists of synthetic bales to protect against downstream accumulations of silt. Dams shall be constructed in accordance with the details shown in the plans or Design Standards. Standard lengths for common inlets will be shown on the Design Standards. Note that synthetic bales may be cleaned or replaced as necessary. Do not estimate for replacement cycles; payment includes maintenance of the erosion control device (cleaning and/or replacement), until permanent erosion control measures are in place.
All bales must be listed on the QPL, according to specification.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 104

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **104- 10- 2** **SYNTHETIC BALES** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

104- 10- 3 SEDIMENT BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?**

Notes **Effective with the January 2010 letting, New Item to replace 104-10-2 Synthetic Bales and 104-13- Staked Silt Fence. Refer to Estimates Bulletin 09-02**

Details To be used in accordance with the Erosion and Sediment Control Manual to protect against downstream accumulation of sediment. Includes synthetic bales, silt fence, and other similar materials shown in the manual.

Refer to the manual for examples of appropriate and inappropriate use of materials.

Payment is made per length of material, for each location on the project, regardless of

whether the materials are new or relocated. The contractor must maintain the sediment barrier, by removing sediment, throughout the installed life of the product. No separate payment is made for maintaining the barrier. Refer to the specification for complete payment information.

Related Items **Required** **Recommended**

Forms **Design** CADD Form not specified.

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **104- 10- 3** **SEDIMENT BARRIER** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 10 3	SEDIMENT BARRIER	LF		1/1/2010	

104- 11- A FLOATING TURBIDITY BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details To be used in accordance with the Erosion and Sediment Control Manual. Common uses include areas where dredging, filling or other construction activities may cause turbidity in water. Also refer to Design Standard Index 103, and any applicable permit requirements.

Per the specifications, each location is paid per length, regardless of whether the barrier is new, used, or relocated from a previous location. The designer should estimate the quantity based on the tabulated length at each location.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 103
(see Index modifications for July 2010; Index 103 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 11- A** **FLOATING TURBIDITY BARRIER** **LF**

A = Blank (Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 11	FLOATING TURBIDITY BARRIER	LF		1/1/2010	

104- 12- A STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details To be used in accordance with the Erosion and Sediment Control Manual and the Design Standards. This item is commonly used in areas where continuous construction activities change the natural contour and drainage runoff. Refer to Design Standard Index 106. Note that the material required by the standard is nylon reinforced PVC. (Geotextile fabric, such as silt fence, is not a substitute for this item.)

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 103
(see Index modifications for July 2010; Index 103 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 12- A** **STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC** **LF**

A = Blank (Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	LF		1/1/2010	

104- 13- A STAKED SILT FENCE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Valid through 12-31-09. Replaced by 104-10-3 Sediment Barrier item. Refer to Estimates Bulletin 09-02 for additional information.**

Details Used for erosion control in areas where construction activities may cause silt runoff. Type III Silt Fence, as detailed in Index No. 102, should be used in most locations. Type IV fence has greater strength and height and should be used where a large sediment load is anticipated (steep fill slopes, long fill slopes, or a combination of both likely to produce a large sediment load)
Each type of silt fence will have an estimated service life of 12 months. The quantity will be developed by estimating the time (in months) the fence will be in place at each location and dividing by 12 (rounding up to the nearest whole) to determine the number of replacements. The total length of fence at each location is determined by multiplying the length of fence at each location by the number of replacements.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 102, 106
(see Index modifications for July 2010; Index 102 and 106 are deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 13- A** **STAKED SILT FENCE** **LF**

A = Type
1 (Type III)
2 (Type IV)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

104- 15- SOIL TRACKING PREVENTION DEVICE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Should be constructed at points of egress from unstabilized areas of the project to minimize offsite tracking of sediment. to minimize tracking from the roadway portion of the

project, use one device per mile (one device per 2 kilometers) with a minimum of two per project. Include an additional device for each storm water pond or mitigation site that is not adjacent to the roadway right-of-way. RRR projects should be handled on a case-by-case basis.
Payment includes excavation, grading, pipe, filter fabric, aggregate, etc., as indicated in Design Standard 106. Separate payment is made for hay bales and silt fence.

Related Items **Required** 104-10-1, 104-13-xxa **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 106
(see Index modifications for July 2010; Index 106 is deleted)

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 15-** **SOIL TRACKING PREVENTION DEVICE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 15	SOIL TRACKING PREVENTION DEVICE	EA		1/1/2010	

104- 16- ROCK BAG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through 12-31-09. Replaced by 104-18 Inlet Protection System. Refer to Estimates Bulletin 09-02 for additional information.**

Details Include for the purpose of controlling siltation at curb and gutter inlets as shown in the Design Standards. Bags are to be 12"x12"x4" (0.3 m x 0.3 m x 0.1 m). Estimate 20 bags for each curb inlet.

Related Items **Required** **Recommended** 104-10-1,

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 102
(see Index modifications for July 2010; Index 102 is deleted)

Specifications Section 104

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 16-** **ROCK BAG** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

104- 17- SAND FENCE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Temporary fence for sand locations, used for erosion control purposes.

Tech Specs and/or plan details to include: fence size, slat size, post and fence materials, construction, installation, maintenance, removal, measurement, and payment. Spec to include option to allow fence to remain in place, at the discretion of the Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 17-** **SAND FENCE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 17	SAND FENCE	LF	T	1/1/2010	

104- 18- INLET PROTECTION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?**

Notes **New item effective January 2010, per Estimates Bulletin 09-02.**

Details This item is to be used in accordance with the Erosion and Sediment Control Manual for the protection of inlets. Payment per each inlet includes all work and materials shown in the E&SC manual, or as detailed in the plans, for a complete system. Curb Inlet filters, such as GutterBuddy, GutterGator, and similar are included in this pay item.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **104- 18-** **INLET PROTECTION SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 18	INLET PROTECTION SYSTEM	EA		1/1/2010	

104- 19- CHEMICAL TREATMENT- POWDERED (For Erosion Control)

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?**

Notes **New item effective January 2010, per Estimates Bulletin 09-02.**

Details This item is to be used in accordance with the Erosion and Sediment Control Manual.

Polyacrylamides and Aluminum Sulfate are used to “clarify turbid or sediment laden water that does not yet meet surface water quality standards… or as an amendment to other erosion prevention and sediment control products, to aid in their performance.” This pay item is typically used for soil stabilization in conjunction with Rolled Erosion Control Products (RECP); designers should estimate the same amount of area used for RECPs. The product must be installed in accordance with the chemical manufacturer’s suggested application rate.

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **104- 19-** **CHEMICAL TREATMENT- POWDERED (For Erosion Control)** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 19	CHEMICAL TREATMENT- POWDERED, FOR EROSION CONTROL	SY		1/1/2010	

104- 20- CHEMICAL TREATMENT- FLOC LOGS, ALUM DRUMS (For Erosion Control)

Unit EA **Accuracy** Each **PlanQuantity?**

Notes

New item effective January 2010, per Estimates Bulletin 09-02.

CONTACT THE MONITOR- Larry Ritchie, Environmental Specialist, State Construction Office.

Details

Coordinate the use of this item with the State Construction Office.

This item is to be used in accordance with the Erosion and Sediment Control Manual.

The 104-20 pay item is considered a Contractor's option for sediment control on the project site. It is typically used in conjunction with water treatment systems constructed by the contractor to control sediment that results from project specific issues. Do not use in design without contacting Larry Ritchie, Environmental Specialist, in the State Construction Office.

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **104- 20-** **CHEMICAL TREATMENT- FLOC LOGS, ALUM DRUMS (For Erosion Control)** **EA**

Notes DO NOT USE WITHOUT APPROVAL OF THE MONITOR- Environmental Specialist, State Construction Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0104 20	CHEMICAL TREATMENT - FLOC LOGS, ALUM DRUMS	EA		1/1/2010	

107- 1- LITTER REMOVAL AND DISPOSAL

Unit AC; HA **Accuracy** 1/10 Acre; 1/10 Hectare **PlanQuantity?** no

Notes **Effective July 2010, with new 107 Specification. Refer to Estimates/Roadway Design Bulletin for additional information.**

Details Estimate the area for each phase, based on the Temporary Traffic Control plans. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc.

Estimate one litter removal and mowing cycle, at 15 day increments, for the duration of the project. Do not adjust the estimated number of cycles for growing season, special events, or project location; these will be adjusted by the engineer during construction, as needed.

Use a summary table in the plans to show the duration, estimated area, mowing frequency, and estimated number of cycles for each phase and the estimated total area. Use a minimum of 1 cycle per phase; after dividing the cycle duration by the frequency, round to the nearest cycle.

Payment will be based on the area calculated by the Engineer, per litter removal or mowing cycle.

Additional comments: If the contractor changes phasing, the CEI will still base the payment for that mowing and litter removal cycle by determining the “actual area completed and accepted…determined by calculation using the lengths and widths based on the station to station dimensions shown in the plans.” This means that the CEI will figure the area the contractor mowed (or is supposed to mow) by measurements on the plans…i.e., the approximate width mowed on each side times the length, less any areas deducted by engineer (areas not mowed).

If the number of cycles changes (due to wet or dry weather conditions, grass height, or other), payment will be made for the actual area and number of cycles completed.

While litter removal is normally completed prior to mowing, It is possible to have additional litter cycles (without mowing cycles), when directed by the Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

(No COMP Form; use tabulation sheet)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **107- 1-** **LITTER REMOVAL AND DISPOSAL** **AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0107 1	LITTER REMOVAL	AC		7/1/2010	

107- 2- MOWING

Unit AC; HA **Accuracy** 1/10 Acre; 1/10 Hectare **PlanQuantity?** yes

Notes **Effective July 2010, with new 107 Specification. Refer to Estimates/Roadway Design Bulletin and Updated PPM for additional information.**

Details

Estimate the area for each phase, based on the Temporary Traffic Control plans. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc.

Estimate one litter removal and mowing cycle, at 15 day increments, for the duration of the project. Do not adjust the estimated number of cycles for growing season, special events, or project location; these will be adjusted by the engineer during construction, as needed.

Use a summary table in the plans to show the duration, estimated area, mowing frequency, and estimated number of cycles for each phase and the estimated total area. Use a minimum of 1 cycle per phase; after dividing the phase duration by the frequency, round to the nearest cycle.

Payment will be based on the area calculated by the Engineer, per litter removal or mowing cycle.

Additional comments: If the contractor changes phasing, the CEI will still base the payment for that mowing and litter removal cycle by determining the “actual area completed and accepted…determined by calculation using the lengths and widths based on the station to station dimensions shown in the plans.” This means that the CEI will figure the area the contractor mowed (or is supposed to mow) by measurements on the plans…i.e., the approximate width mowed on each side times the length, less any areas deducted by engineer (areas not mowed).

If the number of cycles changes (due to wet or dry weather conditions, grass height, or other), payment will be made for the actual area and number of cycles completed.

While litter removal is normally completed prior to mowing, It is possible to have additional litter cycles (without mowing cycles), when directed by the Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

(No COMP Form; use tabulation sheet)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **107- 2-** **MOWING** **AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0107 2	MOWING	AC		7/1/2010	

109- 71- A FIELD OFFICE

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details The designer should contact the District Construction Office to determine if this item should be used on a project. Consists of providing, furnishing and maintaining an Engineer's field office for exclusive use by the Department.
Type B Fencing shall be used as detailed on Roadway and Traffic Design Standards, Index No. 452 for enclosing the field office. Payment for the fence shall be included in the bid price of the field office.
The field office shall be a building or mobile trailer erected at locations selected by the engineer. The field office shall be paid for at the contract unit price per day. per the specifications, "Provide a Field Office for Department use beginning 10 working days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. Payment will be made for each day the field office is available for use by Department personnel."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 802

Specifications Section 109

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **109- 71- A** **FIELD OFFICE** **DA**

A = Size
1 (300 Sq ft)
2 (600 Sq ft)
3 (900 Sq ft)
4 (1200 Sq ft)
5 (1500 Sq ft)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0109 71 1	FIELD OFFICE, 300 SQ FT	DA		1/1/2010	
0109 71 2	FIELD OFFICE, 600 SQ FT	DA		1/1/2010	
0109 71 3	FIELD OFFICE, 900 SQ FT	DA		1/1/2010	
0109 71 4	FIELD OFFICE,1200 SQ FT	DA		1/1/2010	
0109 71 5	FIELD OFFICE,1500 SQ FT	DA		1/1/2010	

110- 1- 1 CLEARING AND GRUBBING

Unit LS/AC; LS/HA **Accuracy** Lump Sum (1/100 Acre); Lump Sum (1/100 Hectare) **PlanQuantity?** yes

Notes

Details

Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions in all areas where excavation is to be done, or where embankments or structures will be constructed. This includes roadway area, ditch area, borrow and material pits, and areas where culverts or pipe lines will be constructed. Code the number of acres (hectares). Locate or define the scope of work involved on the contract plans.

Refer to Pay Item 110-4 for removal of concrete pavement, sidewalk, curb and gutter, etc.

Refer to specifications for guidance "when no direct payment is provided" for clearing and grubbing.

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications Section 110
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 1- 1** **CLEARING AND GRUBBING** **LS/AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 1 1	CLEARING & GRUBBING	LS		1/1/2010	

110- 2- 1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Unit AC; HA **Accuracy** 1/10 Acre; 1/10 Hectare **PlanQuantity?** no

Notes

Details FOR PUSH BUTTON CONTRACTS ONLY
Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions identified in the plans or specifications. Locate or define the scope of work involved. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 2- 1** **CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)** **AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 2 1	CLEARING & GRUBBING (PUSH BUTTON CONTRACT)	AC		1/1/2010	

110- 3- REMOVAL OF EXISTING STRUCTURE

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** yes

Notes

Details

Used for the removal of existing bridge structures and box culverts. Includes all work of removal (complete and/or partial), and disposal of the designated structures. Code the number of square feet (square meters), out-to-out of coping from begin bridge to end bridge.

If bridge debris is to be delivered to another agency, refer to specifications for delivery location. Delivery costs are included in the price for Removal of Existing Structure.

Add pay item note in plans that address bridges to be completely removed and bridges to be partially removed.

Tabulate bridges by bridge number and deck area to be removed. Quantities are based on out-to-out of coping from begin bridge to end bridge or from coping line to saw cut line from begin bridge to end bridge as applicable. Do not include rip-rap, fill slope area in removal quantity. Detail items to be removed in pay item note. Insert existing bridge plans into plan set. Show existing piling on Foundation Layout Sheet that requires complete removal (conflict with proposed foundations, or conflicts with future channel dredging per permit requirements, etc.).

Related Items **Required** **Recommended**

Forms

Design SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation

Design Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications Section 110

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **110- 3-** **REMOVAL OF EXISTING STRUCTURE** **LS/SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 3	REMOVAL OF EXISTING STRUCTURE	LS		1/1/2010	

110- 4- REMOVAL OF EXISTING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details

Consists of removing and disposing of existing concrete pavement, concrete sidewalks, slope pavement, ditch pavement and curb and gutter, where required because of construction operations. Specifically excludes retaining walls and drainage structures.

NOTE: Do not include flexible pavement removal under this item.

Guidance: When is payment included under Clearing and Grubbing? When is Removal of Existing Concrete Pavement needed?
Consider project specific conditions:
If curb & gutter, sidewalk, etc. would likely be removed during standard clearing and grubbing operations (widening projects), then payment could be included in pay item 110-1. No separate payment is needed.
If the project involves removal of concrete pavement, sidewalk, etc., without the broad removal of items normally considered standard clearing and grubbing, then the Removal of Existing Pavement item might be the best choice. The square yard measurement would be clearly defined for these areas.
If the project involves replacement of a section of sidewalk and/or curb, the “no direct payment” option might be best; payment would be included in the cost for the new item(s).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 110

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 4-** **REMOVAL OF EXISTING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY		1/1/2010	

110- 5- PLUGGING WATER WELL- ARTESIAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Artesian is defined in specifications as "an artificial hole in the ground from which water supplies may be obtained and which penetrates any water bearing rock, the water in which is raised to the surface by natural flow…"

The Each pay item is to be used for caps placed on the well. Specifications or plan details are required to detail cap dimensions, materials, and installation instructions.

If the well is to be plugged with flowable fill or similar material, use the flowable fill pay item, 121-70.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 110

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 5-** **PLUGGING WATER WELL- ARTESIAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 5	PLUGGING WATER WELLS, ARTESIAN	EA		1/1/2010	

110- 6- PLUGGING WATER WELL- NON-ARTESIAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Non-Artesian is defined in the specifications as "a well in which the source of water is an unconfined aquifer. The water… does not rise above the source bed."

The Each pay item is to be used for caps placed on the well. Specifications or plan details are required to detail cap dimensions, materials, and installation instructions.

If the well is to be plugged with flowable fill or similar material, use the flowable fill pay item, 121-70.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 110

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 6-** **PLUGGING WATER WELL- NON-ARTESIAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 6	PLUGGING WATER WELLS, NON-ARTESIAN	EA		1/1/2010	

110- 7- A MAILBOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used for replacement of residential or business mailboxes that must be removed during construction operations. Refer to Index 532 for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 532

Specifications Section 110

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 7- A** **MAILBOX** **EA**

A = Description
1 (Furnish & Install Single)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 7 1	MAILBOX, F&I SINGLE	EA		1/1/2010	

110- 8- A UNDERWATER DEBRIS REMOVAL

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details

The specification must describe the item in detail, including its acceptance criteria, method of measurement, and for lump sum items, any secondary units of measure. This item should only be used when the designer is reasonably sure of the number of days which will be required for the task. The daily unit cost for the cranes and barges typically used in this item is relatively high and can quickly lead to large overrun costs if the number of days cannot be accurately estimated. Item 110-3 (2110- 3) is a more appropriate item to use when an accurate estimate of days required cannot be made.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 8- A** **UNDERWATER DEBRIS REMOVAL** **Mixed**

A = Method of Measurement
blank (Day) DA
1 (Weight) TN

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 8	UNDERWATER DEBRIS REMOVAL	DA	T	1/1/2010	
0110 8 1	UNDERWATER DEBRIS REMOVAL	TN	T	1/1/2010	

110- 12- A HYDRODEMOLITION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 12- A** **HYDRODEMOLITION** **SY**

A = Description/Unit of Measure
1 (Removal Of Deck Surface) SY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 12 1	HYDRODEMOLITION, REMOVAL OF DECK SURFACE	SY	T	1/1/2010	

110- 71- 1 BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- REHAB PROJECTS ONLY

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For use on Fender System Rehab projects only.
For projects with bridge and fender system replacement, payment for removal and disposal of existing fender system is included under Removal Of Existing Structures, item 110-3. Plan Details and/or Tech Spec must address proper disposal of timber, as well as measurement and payment of rehab work. Refer to Section 110 of Specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 71- 1** **BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- REHAB PROJECTS ONLY** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 71 1	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL	LF	T	1/1/2010	

110- 73- REMOVE EXISTING BULKHEAD

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **110- 73-** **REMOVE EXISTING BULKHEAD** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 73	REMOVE EXISTING BULKHEAD	LF	T	1/1/2010	

110- 82- REMOVE & DISPOSE STRUCTURAL TIMBER

Unit MB; M3 **Accuracy** 1/10 Thou Board Measure; 1/10 Cubic Meter **PlanQuantity?** no

Notes

Details one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **110- 82-** **REMOVE & DISPOSE STRUCTURAL TIMBER** **MB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 82	REMOVE & DISPOSE STRUCTURAL TIMBER	MB	T	1/1/2010	

110- 84- TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 84-** **TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 84	TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT	LS	T	1/1/2010	

110- 85- CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Valid for maintenance use. Detail cleaning requirements in the plans or specifications.

Related Items **Required** **Recommended**

Forms **Design** CADD Form not specified.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

References

Construction

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 85-** **CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 85	CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN	EA	T	1/1/2010	

110- 86- DELIVERY OF SALVAGEABLE MATERIAL TO FDOT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Designer must coordinate with Maintenance Office prior to using this item. Plan note as to delivery location of salvageable material must be included.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications Section 110

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 86-** **DELIVERY OF SALVAGEABLE MATERIAL TO FDOT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0110 86	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT	LS	T	1/1/2010	

120- 1- REGULAR EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of excavation on the project.

Related Items **Required** **Recommended** 120- 6 (2120- 6)

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards Index No. 285, 500, 505

Specifications Section 120

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 1-** **REGULAR EXCAVATION** **CY**

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 1	REGULAR EXCAVATION	CY		1/1/2010	

120- 2- A BORROW EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

TRUCK MEASURE: This item should only be used on projects with limited or no cross sections. The method to determine the quantity of borrow excavation is as follows:

Fill x Fill Adjustment Factor x Truck Adjustment Factor = Borrow Excavation (Truck Measure).

For example, if the fill adjustment is 20%, the fill adjustment factor is 1.2; and if the truck adjustment is 25%, the truck adjustment factor is 1.25

Applied to the above equation, an original fill amount of 253 CY would become:
253 X 1.2 X 1.25 = 380 CY of Borrow, Truck Measure

Note- the adjustments vary based on the type of material. Per the PPM, contact the District Materials of District Construction Office for project specific numbers.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.

Related Items **Required** **Recommended** 120- 71 (2120- 71)

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards Index No. 500, 505

Specifications Section 120

Prep & Doc Manual Chapter(s) 6, 8, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 2- A** **BORROW EXCAVATION** **CY**

A = Measure Type
2 (Truck Measure)

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 2 2	BORROW EXCAVATION, TRUCK MEASURE	CY		1/1/2010	

120- 3- LATERAL DITCH EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Consists of excavation on portions of lateral ditches beyond the limits of the roadway ROW. Includes inlet and outlet ditches, ditches parallel to the roadway, and may include channel excavation if Item 120-5 (2120- 5) is not used.

Related Items	**Required**	**Recommended**
Forms	**Design**	SBEHWK; SBEarthwork: Summary of Earthwork
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	Vol 1, Chapter 3
	Other	
	Standards	Index No. 281, 500
	Specifications	Section 120
	Prep & Doc Manual Chapter(s)	9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 3-** **LATERAL DITCH EXCAVATION** **CY**

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 3	LATERAL DITCH EXCAVATION	CY		1/1/2010	

120- 4- SUBSOIL EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. Consists of excavation and disposal of muck, clay, rock or other material that is unsuitable in its original position, and that is excavated below the finished grade line template. Also includes all suitable material necessary to be removed in order to excavate the unsuitable material. The areas used to calculate subsoil excavation must also be used in calculating the fill areas, if material is to be replaced.

Related Items	**Required**	**Recommended** 120- 2- 2 or 120- 6 (2120- 2- 2 or 2120- 6)
Forms	**Design**	SBEHWK; SBEarthwork: Summary of Earthwork
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Chapter 3
	Other	
	Standards	Index No. 500, 505
	Specifications	Section 120

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 4-** **SUBSOIL EXCAVATION** **CY**

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 4	SUBSOIL EXCAVATION	CY		1/1/2010	

120- 5- CHANNEL EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Consists of excavation and disposal of all material from the limits of the channel, within the lines and grades indicated in the plans and permit.

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards

Specifications Section 120

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 5-** **CHANNEL EXCAVATION** **CY**

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 5	CHANNEL EXCAVATION	CY		1/1/2010	

120- 6- EMBANKMENT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of embankment on the project.

Related Items **Required** **Recommended** 120- 1 (2120- 1)

Forms **Design** SBEHWK; SBEarthwork: Summary of Earthwork

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards Index No. 500, 505

Specifications Section 120

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 6-** **EMBANKMENT** **CY**

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 6	EMBANKMENT	CY		1/1/2010	

120- 71- REGULAR EXCAVATION (3R PROJECTS ONLY)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. to be used only on resurfacing or minor widening and resurfacing projects which conform to the guidelines in the Plans Preparation Manual. The designer will calculate quantities based on information obtained from the field and the proposed typical section. The designer will continue to show the Summary of Earthwork in the plans. The summary should show all quantities and adjustments.
Effective 7/2000 letting: This item should be used on projects with limited or no cross sections, to pay for the quantity of excavation on the project. Item 120- 2- 2 (2120- 2- 2) should be considered.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards

Specifications Section 120

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 71-** **REGULAR EXCAVATION (3R PROJECTS ONLY)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 71	REGULAR EXCAVATION (3-R PROJECTS ONLY)	LS		1/1/2010	

120- 72- GRAVEL FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details

Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 72-** **GRAVEL FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 72	GRAVEL FILL	CY	T	1/1/2010	

120- 73- LIGHTWEIGHT AGGREGATE FILL

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** no

Notes

Details

Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 9, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **120- 73-** **LIGHTWEIGHT AGGREGATE FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 73	LIGHTWEIGHT AGGREGATE FILL	CY	T	1/1/2010	

120- 74- SURCHARGE EMBANKMENT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details

The work of constructing surcharge fills, as shown in the plans and any extensions thereof, directed by the engineer, shall be included in the price and payment for surcharge embankment. The quantity shall be measured as provided in Section 120, with the exception that the original ground line used in computations shall be the finished grading template for the permanent construction. The measurement shall include only surcharge

material actually placed above the original ground line (as defined above) and within the lines and grades for surcharge construction, as indicated in the plans or directed by the engineer. No allowance will be made for subsidence of material below the original ground line, as defined above. The price and payment for surcharge embankment shall be full compensation for all work required to construct and remove surcharge fills, including furnishing from areas provided by the contractor and borrow excavation required. Surcharge embankment requires a Technical Specification for materials, placement, measurement, and payment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 74-** **SURCHARGE EMBANKMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0120 74	SURCHARGE EMBANKMENT	CY	T	1/1/2010	

121- 70- FLOWABLE FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Applications for flowable fill include: beddings, encasements, closure for tanks, pipes, and general backfill for trenches.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 307

Specifications Section 121

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **121- 70-** **FLOWABLE FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0121 70	FLOWABLE FILL	CY		1/1/2010	

125- 1- EXCAVATION FOR STRUCTURES

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Includes excavation for bridge foundations, box culverts, pipe culverts, retaining walls, headwalls for pipe culverts and drains, manholes, and similar structures.
Direct Payment: refer to Method of Measurement in specifications.
No Direct Payment: work is included in the price for concrete or other related items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications Section 125

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **125- 1-** **EXCAVATION FOR STRUCTURES** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0125 1	EXCAVATION FOR STRUCTURES	CY		1/1/2010	

125- 3- SELECT BEDDING MATERIAL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details No payment for this material will be made when available from excavation of pipe culvert or from other material from grading operations at a location not sufficiently remote to require loading on trucks.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications Section 125

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **125- 3-** **SELECT BEDDING MATERIAL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0125 3	SELECT BEDDING MATERIAL	CY		1/1/2010	

129- 1-AAA NATURAL DISASTER/PRE-EVENT CONTRACTS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Coordinate with the State Maintenance Office prior to using these items.**

Details Valid for Emergency Pre-event or Emergency Response contracts. May need to be coordinated with FEMA for post-event response contracts.

DO NOT use these items on standard Design-Construction contracts.

Crew Pre-positioning: Specifications should indicate that payment will be made for each crew, per day. This item is normally used with cut and toss, for pre-event contracts.

Crew: 2 People and vehicle, per hour. Specifications should indicate any specialized equipment that may need to be included with the vehicle. Overtime, after 8 hours, needs to

be defined in the specifications- per 24 hour period, continuous shift, etc.

Cut and Toss: Hourly rate normally includes vehicle, 2 chain saw operators, and a supervisor. Specifications should detail specific requirements for contract. This item is normally used with crew pre-positioning, for pre-event contracts.

COLLECTION, HAULING, AND REDUCTION ITEMS:
Loading and Hauling debris to TDS site: Specifications must define measurement of the load, i.e. per truck volume, for a full to "slightly mounded" load. Quantity to be reduced for a partial load, based on truck volume. Price to include Maintenance of Traffic (MOT), CY

Reduction by grinding at the TDS, CY: Specifications to indicate whether this is based on volume of ground material, or truck load of loose unground material.
Reduction by incineration at the TDS, CY: Specifications to indicate how material is to be measured, before or after incineration.

Stump removal, per each. Specifications should indicate that no separate payment is made for stumps less than 24".

MISCELLANEOUS ITEMS:
Sweeping Curb and Gutter, HR: Payment will be made per person for sweeping with power blower. Equipment provided by the contractor.

Vacuum Inlets, HR: Payment will be made for clearing debris from inlets.

Removal of Hanging Limbs, HR: Payment will be made for each person removing hanging limbs.

Loading and hauling construction and demolition debris, CY: Specifications must define measurement of the load, i.e. per truck volume, for a full to "slightly mounded" load. Quantity to be reduced for a partial load, based on truck volume. Price to include Maintenance of Traffic (MOT), CY

White Goods and Hazardous Household Waste Disposal, EA: Specifications should indicate that payment is based on each "white good" . Define Hazardous waste disposal?

Freon Recovery, EA: Specifications need to define the work (remove, recover, etc.) to be completed. Payment is for each white good properly serviced to recover the freon.

LOADING OF REDUCED MATERIAL, FINAL DISPOSITION
Loading and Hauling Reductions to a final disposition site, including MOT, CY: Specifications to indicate whether this is based on volume of ground material, or truck load of loose unground material. DO NOT USE BOTH CY AND TN Item on the same contract.

Loading and Hauling Reductions to a final disposition site, including MOT, TN: Specifications to indicate when/where weight measurements are to be made. DO NOT USE BOTH CY AND TN Item on the same contract.

Disposal/Tipping Fees: no-bid item, Contractor will be paid actual cost for this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	
	Construction	
Documentation	**Design**	
	Construction	

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **129- 1-AAA** **NATURAL DISASTER/PRE-EVENT CONTRACTS** **Mixed**

AAA= Operation and Unit of Measure
Pre-event, First response
1 (Crew Pre-positioning) DA
2 (Cut and Toss) HR
3 (Crew, 2 people and service Truck, Regular Time) HR
4 (Crew, 2 people and service Truck, After 8 Hours) HR
5 (Crew, 2 people and Bucket Truck, Regular Time) HR
6 (Crew, 2 people and Bucket Truck, After 8 Hours) HR

Collection, Hauling, and Reduction
11 (Loading and Hauling debris to TDS site) CY
12(Reduction by grinding at the TDS) CY
13 (Reduction by incineration at the TDS) CY

Stump Removal
21(24-48” diameter stump removal) EA
22(>48” diameter stump removal) EA

Miscellaneous Work
31 (Sweeping Curb and Gutter) HR
32 (Vacuum Inlets) HR
33 (Removal of Hanging Limbs) HR
34 (Loading and hauling construction and demolition debris) CY
35 (White Goods and Hazardous Household Waste Disposal) EA
36 (Freon Recovery) EA

Loading of Reduced Material, Final Disposition
50 (Disposal/Tipping Fees- no-bid item, Contractor will be paid actual cost for this item
51 (Loading and Hauling Reductions to a final disposition site, including MOT) CY; see detail to distinguish between CY and TN items.
52 (Loading and Hauling Reductions to a final disposition site, including MOT) TN; see detail to distinguish between CY and TN items.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0129 1 1	NATURAL DISASTER /PRE EVENT CONTRACTS, CREW PRE-POSITIONING	DA	T	1/1/2010	
0129 1 2	NATURAL DISASTER /PRE EVENT CONTRACTS, CUT AND TOSS	HR	T	1/1/2010	
0129 1 3	NATURAL DISASTER /PRE EVENT CONTRACTS, CREW, 2 PEOPLE AND SERVICE TRUCK, REGULAR TIME	HR	T	1/1/2010	

0129 1 4	NATURAL DISASTER /PRE EVENT CONTRACTS, CREW, 2 PEOPLE AND SERVICE TRUCK, AFTER 8 HR	HR	T	1/1/2010
0129 1 5	NATURAL DISASTER /PRE EVENT CONTRACTS, CREW, 2 PEOPLE AND BUCKET TRUCK, REGULAR TIME	HR	T	1/1/2010
0129 1 6	NATURAL DISASTER /PRE EVENT CONTRACTS, CREW, 2 PEOPLE AND BUCKET TRUCK, AFTER 8 HOURS	HR	T	1/1/2010
0129 1 11	NATURAL DISASTER /PRE EVENT CONTRACTS, LOADING AND HAULING DEBRIS TO TDS SITE	CY	T	1/1/2010
0129 1 12	NATURAL DISASTER /PRE EVENT CONTRACTS, REDUCTION BY GRINDING AT THE TDS	CY	T	1/1/2010
0129 1 13	NATURAL DISASTER /PRE EVENT CONTRACTS, REDUCTION BY INCINERATION AT THE TDS	CY	T	1/1/2010
0129 1 21	NATURAL DISASTER /PRE EVENT CONTRACTS, 24-48" DIAMETER STUMP REMOVAL	EA	T	1/1/2010
0129 1 22	NATURAL DISASTER /PRE EVENT CONTRACTS, >48" DIAMETER STUMP REMOVAL	EA	T	1/1/2010
0129 1 31	NATURAL DISASTER /PRE EVENT CONTRACTS, SWEEPING CURB AND GUTTER	HR	T	1/1/2010
0129 1 32	NATURAL DISASTER /PRE EVENT CONTRACTS, VACUUM INLETS	HR	T	1/1/2010
0129 1 33	NATURAL DISASTER /PRE EVENT CONTRACTS, REMOVAL OF HANGING LIMBS	HR	T	1/1/2010
0129 1 34	NATURAL DISASTER /PRE EVENT CONTRACTS, LOADING AND HAULING CONSTRUCTION AND DEMO DEBRIS	CY	T	1/1/2010
0129 1 35	NATURAL DISASTER /PRE EVENT CONTRACTS, WHITE GOODS AND HAZARD HOUSEHOLD WASTE DISPOSAL	EA	T	1/1/2010
0129 1 36	NATURAL DISASTER /PRE EVENT CONTRACTS, FREON RECOVERY	EA	T	1/1/2010
0129 1 50	NATURAL DISASTER /PRE EVENT CONTRACTS, DISPOSAL AND TIPPING FEES-DO NOT BID	LS	T	1/1/2010
0129 1 51	NATURAL DISASTER /PRE EVENT CONTRACTS, LOADING AND HAULING REDUCTIONS TO FINAL DISP, INC MOT	CY	T	1/1/2010
0129 1 52	NATURAL DISASTER /PRE EVENT CONTRACTS, LOADING AND HAULING REDUCTIONS TO FINAL DISP, INC MOT	CY	T	1/1/2010

141- 70- SETTLEMENT PLATE ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Coordinate with the State Maintenance Office prior to using these items.**

Details Used with surcharge embankment item

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 540

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **141- 70-** **SETTLEMENT PLATE ASSEMBLY** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0141 70	SETTLEMENT PLATE ASSEMBLY	AS	T	1/1/2010	

142- 70- SAND FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **142- 70-** **SAND FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0142 70	FILL SAND	CY		1/1/2010	

144- 1- A DIGITAL INCLINOMETER CASING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Coordinate the use of this item with the State Geotechnical Engineer.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 1- A** **DIGITAL INCLINOMETER CASING** **LF**

A = Description
1 (Vertical)
2 (Horizontal) to be opened with approval of State Geotech Engineer

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0144 1 1	DIGITAL INCLINOMETER CASING, VERTICAL	LF	T	1/1/2010	

144- 71- A PORE-PRESSURE TRANSDUCER (PIEZOMETER)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Coordinate the use of this item with the State Geotechnical Engineer.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **144- 71- A** **PORE-PRESSURE TRANSDUCER (PIEZOMETER)** **EA**

A= Transducer Type
blank (type defined in plans/specs) valid through 6/30/2009
1 (Pneumatic) also use item 144-72 for tubing; effective 7/1/2009
2 (Vibrating Wire) do not use item 144-72; effective 7/1/2009

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0144 71 1	PORE-PRESSURE TRANSDUCER-PIEZOMETER, PNEUMATIC	EA	T	1/1/2010	
0144 71 2	PORE-PRESSURE TRANSDUCER-PIEZOMETER, VIBRATING WIRE	EA	T	1/1/2010	

144- 72- TUBING FOR PIEZOMETER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Coordinate the use of this item with the State Geotechnical Engineer.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 72-** **TUBING FOR PIEZOMETER** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

144- 74- A PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Coordinate the use of this item with the State Geotechnical Engineer.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 74- A** **PORE-PRESSURE TRANSDUCER-CONTROL/READOUT UNIT** **EA**

A= Transducer Type
blank (type defined in plans/specs) valid through 6/30/2009
1 (Pneumatic) effective 7/1/2009
2 (Vibrating Wire) effective 7/1/2009

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0144 74 1	PORE-PRESSURE TRANSDUCER, CONTROL / READOUT UNIT PNEUMATIC	EA	T	1/1/2010	
0144 74 2	PORE-PRESSURE TRANSDUCER, CONTROL / READOUT UNIT VIBRATING WIRE	EA	T	1/1/2010	

145- 1- GEOSYNTHETIC REINFORCED SOIL SLOPE

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details

CAUTION- CALCULATE QUANTITY PER SPECIFICATION*

Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. The designer must provide the requirements in the plans for choosing the material from those listed in Index 501. For design assistance, contact the State Geotechnical Engineer.

Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.
Plan measurement will be based on the projected vertical height of the slope, from top of slope to the ground line at the toe of slope, regardless of the number of layers; multiply by the width (beginning and end limits). DO NOT USE THE SLOPE FACE AREA or material area. Refer to the specifications for method of measurement.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 501

Specifications Section 145

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 1-** **GEOSYNTHETIC REINFORCED SOIL SLOPE** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0145 1	GEOSYNTHETIC REINFORCED SOIL SLOPE	SF	D	1/1/2010	

145- 2- GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details

Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. The designer must provide the requirements in the plans for choosing the material from those listed in Index 501. For design assistance, contact the State Geotechnical Engineer.

Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.
Plan measurement will be based on the area of embankment to be reinforced. Refer to specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 501

Specifications Section 145

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 2-** **GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	SY	D	1/1/2010	

145- 71- REINFORCEMENT GRID FOR SOIL STABILIZATION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Coordinate the use of this item with the State Geotechnical Engineer.**

Details Geosynthetic Reinforced Roadway Base for Construction Expedient, as shown on Index 501. Full material technical specifications are required.

This item is intended for Soil Stabilization applications. For drainage/erosion control applications, refer to Section 530 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 501

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 71-** **REINFORCEMENT GRID FOR SOIL STABILIZATION** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

145- 71- A REINFORCEMENT GRID FOR SOIL STABILIZATION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Valid Through Dec 31, 2009; replaced by 145-71. Coordinate the use of this item with the State Geotechnical Engineer.**

Details Geosynthetic Reinforced Roadway Base for Construction Expedient, as shown on Index 501.

Intended for Soil Stabilization applications. For drainage/erosion control applications, refer to Section 530 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 501
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 71- A** **REINFORCEMENT GRID FOR SOIL STABILIZATION** **SY**

A = Description
1 (Biaxial Type 1)
2 (Biaxial Type 2)
3 (Biaxial Type 3)

For other types, including Plastic Cellular Confinement Systems, contact the State Geotechnical Engineer; additional items to be added, pending approval.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0145 71	REINFORCEMENT GRID FOR SOIL STABILIZATION	SY	T	1/1/2010	

160- 4- TYPE B STABILIZATION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of stabilizing designated portions of the roadbed to provide a firm and unyielding subgrade. Stabilizing material can be obtained from existing base material, or from commercial and local materials.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 506

Specifications Section 160

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **160- 4-** **TYPE B STABILIZATION** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0160 4	TYPE B STABILIZATION	SY		1/1/2010	

160- 6- STABILIZED SUBBASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Item valid through 12-31-2009. Replaced by 160-4, per specification.**

Details Stabilized subbase intended to strengthen the upper portion of the subgrade.

Refer to Section 180 (180 items) for Special Select Stabilized Subbase.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 160

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **160- 6-** **STABILIZED SUBBASE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

161-	**PREDESIGNED STABILIZED SUBGRADE**				
	Unit	SY; M2	**Accuracy**	Square Yard; Square Meter	**PlanQuantity?** yes
Notes	**Specification change pending.**				
Details	Per the specifications, Section 161 is valid only for shoulder and non-traffic areas. Refer to Section 160 for roadway stabilization.				
Related Items	**Required**			**Recommended**	
Forms	**Design**	CADD Form not specified.			
	Construction	Refer to Comp Book			
Documentation	**Design**				
	Construction				
References	**PPM Chapter**				
	Other				
	Standards				
	Specifications				
		Plan Details and/or Technical Specifications required			
	Prep & Doc Manual Chapter(s)	6, 7, 13			

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **161-** **PREDESIGNED STABILIZED SUBGRADE** **SY**

Notes Pay Item structure to be determined, pending specification change.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

162- 1- AB	**PREPARED SOIL LAYER**				
	Unit	SY; M2	**Accuracy**	Square Yard; Square Meter	**PlanQuantity?** no
Notes					
Details	Not to be used for Section 580: Landscape Operations. Refer to 580 specifications. FINISH SOIL LAYER: to be used for areas to be seeded, seeded and mulched, or planted. (Included for sodded areas when called for in the plans.) Refer to 162 specifications and Index 105. Note- per index 105, treatment I conditions are included under performance turf pay item. For treatment II conditions, payment is made for Finish Soil Layer and Performance Turf items. Refer to Index 105 for additional information. ORGANIC SOIL LAYER: only when required by permit. 6" depth. BLANKET MATERIAL: only when required by permit. Show depth in plans				
Related Items	**Required**			**Recommended**	
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet			

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 105 Blanket Material: Index No. 505
	Specifications	Section 162
		Selected items to be used by Permit only
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **162- 1- AB** **PREPARED SOIL LAYER** **SY**

A= Material
1 (Finish Soil Layer)
2 (Organic Soil Layer) Note: by Permit only. 6" depth, per specification.
3 (Blanket Soil Layer) Note: By Permit Only

B= Depth
1 (6") Standard depth for finish soil
2 (12") A=1 or 3
3 (Special Depth) A=2 or 3 only, as required by permit

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY		1/1/2010	
0162 1 12	PREPARED SOIL LAYER, FINISH SOIL LAYER, 12"	SY		1/1/2010	
0162 1 21	PREPARED SOIL LAYER, ORGANIC SOIL LAYER, 6"	SY	P	1/1/2010	
0162 1 33	PREPARED SOIL LAYER, BLANKET SOIL LAYER, SPECIAL DEPTH	SY	P	1/1/2010	

173- 71- DRILLING HOLES FOR PRESSURE GROUTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **173- 71-** **DRILLING HOLES FOR PRESSURE GROUTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0173 71	DRILLING HOLES FOR PRESSURE GROUTING	EA	T	1/1/2010	

173- 76- GROUT PIPE INSTALLATION

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **173- 76-** **GROUT PIPE INSTALLATION** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0173 76	GROUT PIPE INSTALLATION	LF	T	1/1/2010	

173- 77- A SUBSURFACE PRESSURE GROUTING

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** no

Notes **Contact the State Geotechnical Engineer prior to using this item.**

Details This item to be used for subsurface applications only. May be used for sinkhole repair. Tech Specs should indicate that this item includes all work and materials for grout injection; drilling holes and grout pipe may be paid separately under related 173 items. Clearly define material properties in specifications.
For concrete structures, refer to Structures items 400 to 460.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 173- 71-, 173- 76-

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **173- 77- A** **SUBSURFACE PRESSURE GROUTING** **CY**

A= Grout Material
1 (Sand-Cement)
2 (Sand Cement with Calcium Chloride) CaCl_2
3 (Cement Slurry)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0173 77 1	SUBSURFACE PRESSURE GROUTING, SAND CEMENT	CY	T	1/1/2010	
0173 77 2	SUBSURFACE PRESSURE GROUTING, SAND CEMENT WITH CALCIUM CHLORIDE	CY	T	1/1/2010	
0173 77 3	SUBSURFACE PRESSURE GROUTING, CEMENT SLURRY	CY	T	1/1/2010	

173- 78- Soil Improvement by Vibro-Compaction

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Contact the State Geotechnical Engineer prior to using this item.**

Details This item to be used for subsurface applications, as approved by the State Geotechnical Engineer.

Tech Specs should be coordinated with the State Geotechnical Engineer and the District Materials Office.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **173- 78-** **Soil Improvement by Vibro-Compaction** **LF**

A= Vibrator Horsepower
1(Up to 125 hp vibrator)
2 (126 to 205 hp vibrator)
3 (Over 206 hp vibrator)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

173- 79- Soil Improvement by Stone Columns

Unit **Accuracy** **PlanQuantity?** no

Notes **Contact Larry Jones, State Geotechnical Engineer. Pay item structure to be determined based on pending specification.**

Details

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **173- 79-** **Soil Improvement by Stone Columns**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

175- 1- RESEATING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Perform controlled cracking of concrete pavement and reseating of the cracked slabs, by rolling, tamping, etc., on the underlying subgrade to provide a firm base for asphalt concrete surfacing.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 175

Prep & Doc Manual Chapter(s) 6, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **175- 1-** **RESEATING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0175 1	RESEATING CONCRETE PAVEMENT	SY		1/1/2010	

210- 1- AA REWORKING LIMEROCK BASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Rework (or rework and widen) the existing rock base, by adding new limerock material as required by the plans and Section 210 of the specifications. Construct adjacent turnouts, entirely with new limerock.

Related Items **Required** 210- 2 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 210, 285

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **210- 1- AA** **REWORKING LIMEROCK BASE** **SY**

AA = Thickness
1 (6")
8 (4")
9 (3")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0210 1 1	REWORKING LIMEROCK BASE, 6"	SY		1/1/2010	
0210 1 8	REWORKING LIMEROCK BASE, 4"	SY		1/1/2010	
0210 1 9	REWORKING LIMEROCK BASE, 3"	SY		1/1/2010	

210- 2- LIMEROCK, NEW MATERIAL FOR REWORKING BASE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details To be used in accordance with Section 210 of the specifications.

Measurement, from specification: The quantity to be paid for will be the number of cubic yards of only the new limerock material actually placed in the road and accepted. The quantity will be determined by measurement in loose volume, in truck bodies, at the point of dumping on the road, with proper deduction for all materials wasted, left in trucks or otherwise not actually used in the road. For this purpose, level the material in the truck

bodies to facilitate accurate measurement.

Related Items **Required** 210- 1- A **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications Section 210, 285

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **210- 2-** **LIMEROCK, NEW MATERIAL FOR REWORKING BASE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0210 2	LIMEROCK-NEW MATERIAL FOR REWORKING BASE	CY		1/1/2010	

285-7AA- OPTIONAL BASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of base construction of one of the optional materials shown in the plan typical sections. The plans will include typical sections specifying only the base group on new construction and complete reconstruction projects, permitting the maximum number of general use options that the contractor can utilize. Note that there are still limitations given in the notes. Also, the designer can still specify base materials, if this is appropriate for the project. The Optional Base item is also used when specifying only one option, such as ABC III. The quantity must include a 4" (0.1 m) overhang, as shown on the typical section for rural projects.

NOTE: The cost of prime or tack coats used between layers of the base are included in the cost of the Optional Base.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 514

Specifications Section 285

Prep & Doc Manual Chapter(s) 6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **285-7AA-** **OPTIONAL BASE** **SY**

AA = Is 01 Thru 15 which indicates Base Group, as shown on Index 514

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0285701	OPTIONAL BASE, BASE GROUP 01	SY		1/1/2010	
0285702	OPTIONAL BASE, BASE GROUP 02	SY		1/1/2010	
0285703	OPTIONAL BASE, BASE GROUP 03	SY		1/1/2010	
0285704	OPTIONAL BASE, BASE GROUP 04	SY		1/1/2010	
0285705	OPTIONAL BASE, BASE GROUP 05	SY		1/1/2010	
0285706	OPTIONAL BASE, BASE GROUP 06	SY		1/1/2010	
0285707	OPTIONAL BASE, BASE GROUP 07	SY		1/1/2010	
0285708	OPTIONAL BASE, BASE GROUP 08	SY		1/1/2010	
0285709	OPTIONAL BASE, BASE GROUP 09	SY		1/1/2010	
0285710	OPTIONAL BASE, BASE GROUP 10	SY		1/1/2010	
0285711	OPTIONAL BASE, BASE GROUP 11	SY		1/1/2010	
0285712	OPTIONAL BASE, BASE GROUP 12	SY		1/1/2010	
0285713	OPTIONAL BASE, BASE GROUP 13	SY		1/1/2010	
0285714	OPTIONAL BASE, BASE GROUP 14	SY		1/1/2010	
0285715	OPTIONAL BASE, BASE GROUP 15	SY		1/1/2010	

286- 1- TURNOUT CONSTRUCTION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details To be used in accordance with Section 286 of the specifications and Index 516. Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of base course, and specifically excludes placing of AC surface course.

Related Items **Required** **Recommended**

Forms **Design** SBTURN; SBTurnouts: Summary of Turnouts

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	Index No. 516
	Specifications	Section 286
	Prep & Doc Manual Chapter(s)	6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **286- 1-** **TURNOUT CONSTRUCTION** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0286 1	TURNOUT CONSTRUCTION	SY		1/1/2010	

286- 2- TURNOUT CONSTRUCTION- ASPHALT

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details To be used in accordance with Section 286 of the specifications and Index 516. Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of asphalt base course, and specifically excludes placing of AC surface course.

Related Items	**Required**	**Recommended**
Forms	**Design**	SBTURN; SBTurnouts: Summary of Turnouts
		COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
	Construction	700-050-56
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 516
	Specifications	Section 286
	Prep & Doc Manual Chapter(s)	6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **286- 2-** **TURNOUT CONSTRUCTION- ASPHALT** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0286 2	TURNOUT CONSTRUCTION-ASPHALT	TN		1/1/2010	

287- 1- ASPHALT TREATED PERMEABLE BASE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 287

Specifications Section 287

Prep & Doc Manual Chapter(s) 6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **287- 1-** **ASPHALT TREATED PERMEABLE BASE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0287 1	ASPHALT TREATED PERMEABLE BASE	CY		1/1/2010	

288-001- CEMENT TREATED PERMEABLE BASE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 287

Specifications Section 288

Prep & Doc Manual Chapter(s) 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **288-001-** **CEMENT TREATED PERMEABLE BASE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0288001	CEMENT TREATED PERMEABLE BASE	CY		1/1/2010	

315- 1- STRESS ABSORBING MEMBRANE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **CONTACT THE STATE PAVEMENT DESIGN OFFICE for approval, prior to using this item.**

Details Project specific specifications, including material and installation requirements, are needed

Payment for this item includes all work and materials for the membrane.

NOTE: This item may serve as a replacement for Pavement Overlay fabric (Item 518-70), when approved by State Pavement Design Office.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **315- 1-** **STRESS ABSORBING MEMBRANE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0315 1	STRESS ABSORBING MEMBRANE	SY	T	1/1/2010	

327- 70- AA MILLING EXISTING ASPHALT PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of removing existing AC pavement to improve the rideability of the finished pavement, to lower the finished grade adjacent to existing curb prior to resurfacing, or to completely remove existing pavement. Includes transporting the milled material to the asphalt plant site, and stockpiling the material. Also includes removal of existing Reflective Pavement Markers. Show basis of calculation, include exceptions.

Related Items **Required** **Recommended** 300- 1- 1 (2300- 1- 1)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 327
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **327- 70- AA** **MILLING EXISTING ASPHALT PAVEMENT** **SY**

AA =
1 (1" Avg. Depth)
2 (3 1/2" Avg. Depth)
3 (4 1/2" Avg. Depth)
4 (3" Avg. Depth)
5 (2" Avg. Depth)
6 (1 1/2" Avg. Depth)
7 (4" Avg. Depth)
8 (2 1/2" Avg. Depth)
9 (5 1/4 Avg. Depth)
10 (5" Avg. Depth)
11 (2 1/4" Avg. Depth)
12 (1 1/4" Avg. Depth)
13 (1 3/4" Avg. Depth)
14 (6 1/2" Avg. Depth)
15 (2 3/4" Avg. Depth)
16 (1/2" Avg. Depth)
17 (3 1/4" Avg. Depth)
18 (5 1/2" Avg. Depth)
19 (3/4" Avg. Depth)
20 (3 3/4" Avg. Depth)
21 (7" Avg. Depth)
22 (4 1/4" Avg. Depth)
23 (6" Avg. Depth)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY		1/1/2010	
0327 70 2	MILLING EXIST ASPH PAVT, 3 1/2" AVG DEPTH	SY		1/1/2010	
0327 70 3	MILLING EXIST ASPH PAVT, 4 1/2" AVG DEPTH	SY		1/1/2010	
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY		1/1/2010	
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY		1/1/2010	

0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY	1/1/2010
0327 70 7	MILLING EXIST ASPH PAVT, 4" AVG DEPTH	SY	1/1/2010
0327 70 8	MILLING EXIST ASPH PAVT, 2 1/2" AVG DEPTH	SY	1/1/2010
0327 70 9	MILLING EXIST ASPH PAVT, 5 1/4" AVG DEPTH	SY	1/1/2010
0327 70 10	MILLING EXIST ASPH PAVT, 5" AVG DEPTH	SY	1/1/2010
0327 70 11	MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY	1/1/2010
0327 70 12	MILLING EXIST ASPH PAVT, 1 1/4" AVG DEPTH	SY	1/1/2010
0327 70 13	MILLING EXIST ASPH PAVT, 1 3/4" AVG DEPTH	SY	1/1/2010
0327 70 14	MILLING EXIST ASPH PAVT, 6 1/2" AVG DEPTH	SY	1/1/2010
0327 70 15	MILLING EXIST ASPH PAVT, 2 3/4" AVG DEPTH	SY	1/1/2010
0327 70 16	MILLING EXIST ASPH PAVT, 1/2" AVG DEPTH	SY	1/1/2010
0327 70 17	MILLING EXIST ASPH PAVT, 3 1/4" AVG DEPTH	SY	1/1/2010
0327 70 18	MILLING EXIST ASPH PAVT, 5 1/2" AVG DEPTH	SY	1/1/2010
0327 70 19	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH	SY	1/1/2010
0327 70 20	MILLING EXIST ASPH PAVT, 3 3/4" AVG DEPTH	SY	1/1/2010
0327 70 21	MILLING EXIST ASPH PAVT, 7" AVG DEPTH	SY	1/1/2010
0327 70 22	MILLING EXIST ASPH PAVT,4 1/4" AVG DEPTH	SY	1/1/2010
0327 70 23	MILLING EXIST ASPH PAVT, 6" AVG DEPTH	SY	1/1/2010

334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details Consists of using SUPERPAVE asphalt mixture design and analysis test equipment and procedures, Gyratory Compactor to better simulate actual pavement loadings (five different traffic levels available) to provide for a better rut-resistant mix design. Use 110 lb per square yard per 1 inch (24 kg/m2 per 10 mm) lift. Note: Other rates and PG 76-22 Binder may be used only when recommended by District Materials Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the

data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications Section 334

Prep & Doc Manual Chapter(s) 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **334- 1- AA** **SUPERPAVE ASPHALTIC CONCRETE** **TN**

AA = Traffic
11 (A)
12 (B)
13 (C)
14 (D)
15 (E)
21 (Traffic A, PG 76-22)
22 (Traffic B, PG 76-22)
23 (Traffic C, PG 76-22)
24 (Traffic D, PG 76-22)
25 (Traffic E, PG 76-22)

Notes Item used for Price Trends Report

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0334 1 11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	TN		1/1/2010	
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN		1/1/2010	
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN		1/1/2010	
0334 1 14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	TN		1/1/2010	
0334 1 15	SUPERPAVE ASPHALTIC CONC, TRAFFIC E	TN		1/1/2010	
0334 1 21	SUPERPAVE ASPH CONC, TRAF A, PG76-22	TN		1/1/2010	
0334 1 22	SUPERPAVE ASPH CONC, TRAF B, PG76-22	TN		1/1/2010	
0334 1 23	SUPERPAVE ASPH CONC, TRAF C, PG76-22	TN		1/1/2010	
0334 1 24	SUPERPAVE ASPH CONC, TRAF D, PG76-22	TN		1/1/2010	
0334 1 25	SUPERPAVE ASPH CONC, TRAF E, PG76-22	TN		1/1/2010	

337- 7- AA **ASPHALTIC CONCRETE FRICTION COURSE**

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details The maximum spread rate used for estimating quantities are as follows:
a=5~ FC-5(Rubber): 80 lb/yd2 (44 kg/m2); recommended thickness 3/4 in (20mm)
a=7~ FC-9.5 (Rubber): 110 lb/yd2 (72 kg/m2); recommended thickness 1 in (30mm)
a=6~ FC-12.5 (Rubber): 165 lb/yd2 (96 kg/m2); recommended thickness 11/2 in (40mm)
a=21~ FC-9.5 (PG 76-22): 110 lb/yd2 (72 kg/m2); recommended thickness 1 in (30mm)
a=20~ FC-12.5 (PG 76-22): 165 lb/yd2 (96 kg/m2); recommended thickness 11/2 in (40mm)
a=22~ FC-5 (PG 76-22): 80 lb/yd2 (44 kg/m2); recommended thickness 3/4 in (20mm)

The actual spread rate will be based on the contractor's mix design per specifications. Designers must specify on the Typical Section, the traffic Level for structural Friction Courses FC-9.5 and FC-12.5.
Refer to Pavement Design Manual for additional information.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
		COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
	Construction	700-050-56
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 337
	Prep & Doc Manual Chapter(s)	11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **337- 7- AA** **ASPHALTIC CONCRETE FRICTION COURSE** **TN**

AA = Type
5 (FC-5, Rubber)
22 (FC-5, PG 76-22)

30 (Traffic B, FC-9.5, Rubber)
31 (Traffic B, FC-12.5, Rubber)
32 (Traffic C, FC-9.5, Rubber)
33 (Traffic C, FC-12.5, Rubber)
35 (Traffic D, FC-12.5, Rubber)

40 (Traffic B, FC-9.5, PG 76-22)
41 (Traffic B, FC-12.5, PG 76-22)
42 (Traffic C, FC-9.5, PG 76-22)
43 (Traffic C, FC-12.5, PG 76-22)
45 (Traffic D, FC-12.5, PG 76-22)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0337 7 5	ASPHALT CONCRETE FRICTION COURSE-INC BIT/RUBBER, FC-5	TN		1/1/2010	
0337 7 22	ASPH CONC FRICTION COURSE, INC BIT, FC-5, PG76-22	TN		1/1/2010	
0337 7 30	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, RUBBER	TN		1/1/2010	
0337 7 31	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, RUBBER	TN		1/1/2010	

0337 7 32	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, RUBBER	TN	1/1/2010
0337 7 33	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, RUBBER	TN	1/1/2010
0337 7 35	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, RUBBER	TN	1/1/2010
0337 7 40	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, PG 76-22	TN	1/1/2010
0337 7 41	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, PG 76-22	TN	1/1/2010
0337 7 42	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, PG 76-22	TN	1/1/2010
0337 7 43	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	1/1/2010
0337 7 45	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, PG 76-22	TN	1/1/2010

339- 1- MISCELLANEOUS ASPHALT PAVEMENT

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details Consists of construction of asphalt pavement in areas which will not be subjected to vehicular traffic, such as pavement under guardrail, bicycle paths, median pavement, sidewalks, etc. The pay quantity will be based on the average spread rate or dimensions for the project, limited to a maximum of 105% of the plan quantity. For calculation, use a weight of 100 lb/sy-in (22kg/m2 per 10mm) thickness.

Related Items **Required** **Recommended**

Forms **Design** SBAsphaltMisc: Summary of Miscellaneous Asphalt

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References **PPM Chapter**

Other

Standards Index No. 400 for guardrail applications

Specifications Section 339

Prep & Doc Manual Chapter(s) Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **339- 1-** **MISCELLANEOUS ASPHALT PAVEMENT** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN		1/1/2010	

341- 70- ASPHALT RUBBER MEMBRANE INTERLAYER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Consists of a separate application of asphalt rubber binder covered with a single application of aggregate. Payment for bituminous material (rubber binder) is incidental to this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 341

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **341- 70-** **ASPHALT RUBBER MEMBRANE INTERLAYER** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0341 70	ASPHALT RUBBER MEMBRANE INTERLAYER	SY		1/1/2010	

350- 1- AA CEMENT CONCRETE PAVEMENT PLAIN

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of placement of plain Portland Cement Concrete pavement and also of construction of pavement joints.
For colored concrete, see 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 305, 560

Specifications Section 350

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 1- AA** **CEMENT CONCRETE PAVEMENT PLAIN** **SY**

AA = Average thickness
1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
8 (7 1/2")
9 (Var. 7 1/2" Avg.)
10 (12")
11 (13")
12 (11")
13 (11 1/2")
14 (14")
15 (13 1/2")
16 (10 1/2")
17 (8 1/2")
19 (12 1/2")
20 (Var. 9 1/2" Avg.)
21 (Var. 11" Avg.)
22 (Var. 11 1/2" Avg.)
23 (14 1/2")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0350 1 1	PLAIN CEMENT CONCRETE PAVEMENT, 6"	SY		1/1/2010	
0350 1 2	PLAIN CEMENT CONCRETE PAVEMENT, 7"	SY		1/1/2010	
0350 1 3	PLAIN CEMENT CONCRETE PAVEMENT, 8"	SY		1/1/2010	
0350 1 4	PLAIN CEMENT CONCRETE PAVEMENT, 9"	SY		1/1/2010	
0350 1 5	PLAIN CEMENT CONCRETE PAVEMENT, 10"	SY		1/1/2010	
0350 1 8	CEMENT CONCRETE PAVEMENT PLAIN, 7 1/2"	SY		1/1/2010	
0350 1 9	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 71/2" AVERAGE	SY		1/1/2010	
0350 1 10	PLAIN CEMENT CONCRETE PAVEMENT, 12"	SY		1/1/2010	
0350 1 11	PLAIN CEMENT CONCRETE PAVEMENT, 13"	SY		1/1/2010	
0350 1 12	PLAIN CEMENT CONCRETE PAVEMENT, 11"	SY		1/1/2010	

0350 1 13	PLAIN CEMENT CONCRETE PAVEMENT, 11 1/2"	SY	1/1/2010
0350 1 14	PLAIN CEMENT CONCRETE PAVEMENT, 14"	SY	1/1/2010
0350 1 15	PLAIN CEMENT CONCRETE PAVEMENT, 13 1/2"	SY	1/1/2010
0350 1 16	PLAIN CEMENT CONCRETE PAVEMENT, 10 1/2"	SY	1/1/2010
0350 1 17	PLAIN CEMENT CONCRETE PAVEMENT, 8 1/2"	SY	1/1/2010
0350 1 19	PLAIN CEMENT CONCRETE PAVEMENT, 12 1/2"	SY	1/1/2010
0350 1 20	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 9 1/2" AVERAGE	SY	1/1/2010
0350 1 21	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 11" AVERAGE	SY	1/1/2010
0350 1 22	PLAIN CEMENT CONCRETE PAVEMENT, VAR 11 1/2" AVG	SY	1/1/2010
0350 1 23	PLAIN CEMENT CONCRETE PAVEMENT, 14 1/2"	SY	1/1/2010

350- 2- AA CEMENT CONCRETE PAVEMENT, REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of placement of steel reinforced Portland Cement Concrete pavement and also of construction of pavement joints, as described in Section 350.

For fiber reinforced concrete, contact the State Pavement Design Office.
For colored concrete, see 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 305, 560

Specifications Section 350

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 2- AA** **CEMENT CONCRETE PAVEMENT, REINFORCED** **SY**

AA = thickness
1 (6")
3 (8")
4 (9")
10 (12")
17 (8.5")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0350 2 1	CEMENT CONC PAVT REINFORCED, 6"	SY		1/1/2010	
0350 2 3	CEMENT CONC PAVT REINFORCED, 8"	SY		1/1/2010	
0350 2 4	CEMENT CONC PAVT REINFORCED, 9"	SY		1/1/2010	
0350 2 10	CEMENT CONC PAVT REINFORCED,12"	SY		1/1/2010	
0350 2 17	CEMENT CONC PAVT REINFORCED, 8.5"	SY		1/1/2010	

350- 72- CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only.
DO NOT Use on bridge structures; refer to item 400-12.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 305

Specifications Section 350

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 72-** **CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0350 72	CLEANING & RESEALING JOINTS- EXISTING CONCRETE PAVEMENT:	LF		1/1/2010	

350- 78- CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only.
DO NOT Use on bridge structures; refer to Section 400 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 350

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 78-** **CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0350 78	CLEANING & SEALING RANDOM CRACKS IN EXISTING CONCRETE PAVEMENT	LF		1/1/2010	

352- 70- GRINDING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.
DO NOT Use on bridge structures; refer to Section 400 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 352

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **352- 70-** **GRINDING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0352 70	GRINDING CONCRETE PAVEMENT	SY		1/1/2010	

353- 70- CONCRETE PAVEMENT SLAB REPLACEMENT

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** no

Notes

Details For use on existing Concrete Pavement roadways only.

Per specification, "the quantity will be calculated on the basis of field measured horizontal dimensions and pavement design thickness. No additional compensation will be allowed for additional concrete required to bring the proposed concrete slab up to finished grade."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 305, 308

Specifications Section 353

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **353- 70-** **CONCRETE PAVEMENT SLAB REPLACEMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0353 70	CONCRETE PAVEMENT SLAB REPLACEMENT	CY		1/1/2010	

370- 1- BRIDGE APPROACH EXPANSION JOINT FOR CONCRETE PAVEMENT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Consists of the construction of special expansion joints for concrete pavement near the bridge approach slabs. These joints contain a section of reinforced concrete subslab supporting the concrete pavement, and a portion of the pavement over the subslab interrupted by a galvanized sheet metal strip.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 306

Specifications Section 350, 370

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **370- 1-** **BRIDGE APPROACH EXPANSION JOINT FOR CONCRETE PAVEMENT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0370 1	BRIDGE APPROACH EXPANSION JOINT FOR CONCRETE PAVEMENT	LF		1/1/2010	

400- -ALL	Class NS, I, II, III, IV, V, VI Details

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes **NOTES BELOW ARE FOR CLASS NS, I, II, III, IV, and V, VI Concrete**

Details

No separate payment made for deck scuppers, poured expansion joints, deck control joints, preformed anchor bolt holes, plain neoprene bearing pads. These items are included in the cost of the concrete.

Reinforcement steel may be incidental to the cost of the concrete; refer to Section 400 of the specifications. Reinforcement is incidental for concrete jackets on steel piles, steel in barriers, traffic separators, and parapets. For Gravity Walls, reinforcement steel is incidental to cost of concrete.

Include quantity block in plans by component (except for misc. concrete). Mass concrete should be broken out in the quantity block separately. See SDG's 3.9. When component is phased, break down quantity by phase.
Concrete quantity is PLAN QUANTITY (except for misc. concrete). See Section 400-22.2.2 of the Specifications.

ENDWALLS: Refer to Design Standards for correct class of concrete and other payment details. For some U-endwalls, including Index 260 and 261, payment is made under 430 items. For Index 250, reinforcing steel is included in cost of concrete.

JUNCTION SLAB FOR GRAVITY WALLS: (Effective July 2010) Payment for Junction Slab on Gravity Wall (Index 520) will be included in payment for 521-8 Retaining Wall with Junction Slab. Do not include junction slab quantities with CY gravity wall quantities.

Misc Concrete (through June 2009 letting): Estimate 5 CY (5 M3) minimum. PENDING: To be replaced by Class NS concrete or other non-concrete items, to which concrete is incidental.

Misc Concrete (effective July 2009 letting): No separate payment is made for Misc Concrete. Work and materials are to be included in the item to which it is incidental- pull & junction box, lighting, signing, etc.

Precast Deck Overlay: consists of Class II with steel fiber reinforcement; Class IV with polymer fiber reinforcement and low shrinkage admixtures. Coordinate Use of this item with the State Structures Design Office. Requires modified specifications.

Class III: When it is not practical to dewater land pier footings, show seal concrete in the plans. For water piers, both waterline and mud line footings require seal concrete to be shown in the plans. See SDG's 3.7.

Precast Segmental Production: Refer to Section 452 of the specifications, as needed.

Superstructure Light-Weight Concrete requires plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Low Shrink Deck Concrete requires a TSP.

Self-Consolidating Concrete requires a Tech Spec. Coordinate this specification with the State Structures Design Office.

Counterweight Concrete may require plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Concrete for bascule bridge pier should be paid for under Substructure or Mass-Substructure pay items. See SDG's 3.9.

Clearly delineate limits of microsilica concrete in the plans. Clearly delineate limits of calcium nitrite in the plans. CIP concrete requiring calcium nitrite should be paid for using the normal concrete pay item. See SDG's 1.4.3.

Class VI: Coordinate the use of these items with the State Structures Design Office.

ORIGINAL MEASUREMENT:
ALL, Except MISC: Detailed calculations are required in the computation book, calculate carefully to reflect actual scope of work. PLAN QUANTITY will be basis of payment to the Contractor.
MISC: Detailed calculations are required in computation book.
FINAL:
ALL, Except MISC: No calculations required unless item is to be adjusted. Final pay quantity will be PLAN QUANTITY with proper considerations for Specification tolerances.
MISC: Final measurements should be recorded in field book showing detailed calculations. (Refer to subarticle 400-20.2.2 in the specifications.) Transfer final quantity to proper form in computation book.

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.
Normally requires SHOP DRAWINGS

Standards Index Numbers:
APPROACH SLABS: 20900, 20910
CIP Retaining Wall: 5100
CULVERTS: 289
ENDWALLS: 250, 251, 252, 253, 255, 264, 266, 295
MISC: 270, 280, 286, 287
GRAVITY WALL: 520
RET WALLS: 5000 series

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- -ALL** **Class NS, I, II, III, IV, V, VI Details** **CY**

AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV
2 (Endwalls) Class I, II, IV, excluding Index 260 & 261 endwalls
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV

6 (Counterweight) Class IV
8 (Bulkhead) Class IV
10 (Approach Slabs) Class II
11 (Retaining Walls) Class NS: Gravity Wall, Index 520; Class II: Gravity Wall w/ junction slab, Index 520. NOTE: DO NOT use this item for walls covered by 548 specifications.
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS: Index 521 **New item effective 7/09 letting***
15 (Miscellaneous) **Valid through June 2009 letting**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class ??
25 (Mass- Substructure) Class ??
39 (Precast Segmental Superstructure) Class IV, V, VI. Refer to Section 452.
40 (Precast Segmental Substructure) Class IV, V. Refer to Section 452.
41 (Precast Deck Overlay) Class II with steel fiber reinforcement; Class IV with polymer fiber reinforcement & low shrink admixtures
42 (Substructure Self-Consolidating Concrete) Class VI, Tech Spec required
43 (Superstructure Self-Consolidating Concrete) Class VI, Tech Spec required
104 (Superstructure Light-Weight) Class ??
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400- 0-AAA CLASS NS CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes **Effective July 2009.**

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.
Normally requires SHOP DRAWINGS

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 0-AAA** **CLASS NS CONCRETE** **CY**

AAA = Class 0 Applications
11 (Gravity Wall), Index 520 **Effective 7/2009**
13 (Concrete Steps) Index 521 **Effective 7/2009**

Notes CLASS NS: DO NOT OPEN until specifications & standards are approved

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY		1/1/2010	
0400 0 13	CONCRETE CLASS NS, STEPS	CY		1/1/2010	

400- 1-AAA CLASS I CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.
Normally requires SHOP DRAWINGS

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 1-AAA** **CLASS I CONCRETE** **CY**

AAA = Class I Applications
1 (Culverts)
2 (Endwalls) Index 250, 264, 266, 282
11 (Retaining Walls) Gravity Wall, Index 520 **Valid through 6-30-2009; replaced by Class NS Gravity Wall**
15 (Miscellaneous) **Valid through June 2009 letting**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 1 1	CONCRETE CLASS I, CULVERTS	CY		1/1/2010	
0400 1 2	CONCRETE CLASS I, ENDWALLS	CY		1/1/2010	
0400 1 11	CONCRETE CLASS I, RETAINING WALLS	CY		1/1/2010	
0400 1 25	CONC CLASS I, MASS SUBSTRUCTURE	CY		1/1/2010	

400- 2-AAA CLASS II CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 2-AAA** **CLASS II CONCRETE** **CY**

AAA = Class II Applications
1 (Culverts)
2 (Endwalls) Index 251, 252, 253, 255; NOT Index 260 or 261
4 (Superstructure)
5 (Substructure)
10 (Approach Slabs)
11 (Retaining Walls) Gravity Wall w/ junction slab, Index 520. NOTE: DO NOT use this item for walls covered by 548 specifications.
12 (Trench Slabs)
15 (Miscellaneous) **Valid through June 2009 letting**
41 (Precast Deck Overlay) w/admixtures

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 2 1	CONCRETE CLASS II, CULVERTS	CY		1/1/2010	
0400 2 2	CONCRETE CLASS II, ENDWALLS	CY		1/1/2010	
0400 2 4	CONC CLASS II, SUPERSTRUCTURE	CY		1/1/2010	
0400 2 5	CONCRETE CLASS II, SUBSTRUCTURE	CY		1/1/2010	
0400 2 8	CONCRETE CLASS II, BULKHEAD	CY		1/1/2010	
0400 2 10	CONCRETE CLASS II, APPROACH SLABS	CY		1/1/2010	
0400 2 11	CONCRETE CLASS II, RETAINING WALLS	CY		1/1/2010	
0400 2 12	CONCRETE, CLASS II, TRENCH SLAB	CY		1/1/2010	
0400 2 25	CONCRETE CLASS II, MASS, SUBSTRUCTURE	CY		1/1/2010	
0400 2 41	CONCRETE CLASS II, PRECAST DECK OVERLAY	CY		1/1/2010	

400- 3-AAA CLASS III CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 3-AAA** **CLASS III CONCRETE** **CY**

AAA = Class III Applications
15 (Miscellaneous) **Valid through June 2009 letting**
20 (Seal) Class III

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 3 1	CONCRETE CLASS III, CULVERTS	CY		1/1/2010	
0400 3 8	CONCRETE CLASS III, BULKHEAD	CY		1/1/2010	
0400 3 20	CONC CLASS III, SEAL	CY		1/1/2010	

400- 4-AAA CLASS IV CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete
Class IV normally used for aggressive environments.

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications Sections 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 4-AAA** **CLASS IV CONCRETE** **CY**

AAA = Class IV Applications
1 (Culverts)
2 (Endwalls)
4 (Superstructure)
5 (Substructure)
6 (Counterweight)
8 (Bulkhead)
15 (Miscellaneous) **Valid through June 2009 letting**
41 (Precast Deck Overlay) w/admixtures

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 4 1	CONCRETE CLASS IV, CULVERTS	CY		1/1/2010	
0400 4 2	CONCRETE CLASS IV, ENDWALLS	CY		1/1/2010	
0400 4 4	CONCRETE CLASS IV, SUPERSTRUCTURE	CY		1/1/2010	
0400 4 5	CONCRETE CLASS IV, SUBSTRUCTURE	CY		1/1/2010	
0400 4 6	CONCRETE CLASS IV, COUNTERWEIGHT	CY		1/1/2010	
0400 4 8	CONC CLASS IV, BULKHEAD	CY		1/1/2010	
0400 4 11	CONC CLASS IV, RETAINING WALLS	CY		1/1/2010	
0400 4 22	CONCRETE, CLASS IV, SUPERSTRUCTURE - CLOSURE JOINT	CY		1/1/2010	
0400 4 25	CONCRETE CLASS IV, MASS, SUBSTRUCTURE	CY		1/1/2010	
0400 4 39	CONCRETE CLASS IV, PRECAST SEGMENTAL, SUPSTRUCTURE	CY		1/1/2010	12/31/2013
0400 4 40	CONCRETE CLASS IV, PRECAST SEGMENTAL, SUBSTRUCTURE	CY		1/1/2010	12/31/2013
0400 4 41	CONCRETE CLASS IV, PRECAST DECK OVERLAY	CY		1/1/2010	
0400 4104	CONC CLASS IV, SUPERSTRUCTURE, LT-WT	CY		1/1/2010	

400- 6- PRECAST ANCHOR BEAMS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for Precast Tie Back anchors for use in anchored wall systems. Include in anchored wall quantity block in plans

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 6-** **PRECAST ANCHOR BEAMS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 6	PRECAST ANCHOR BEAMS	EA		1/1/2010	

400- 7- BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5"

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Item intended for cases where deck profilograph and planing is not required by specification. When rigid approach slab is utilized, include approach slab area only. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 4.2

Standards

Specifications Section 400

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 7-** **BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5"** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 7	BRIDGE DECK GROOVING, LESS THAN 8.5"	SY		1/1/2010	

400- 8-AAA CLASS V CONCRETE

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-04/07: Volume Measure Items and Continuation; Concrete & Reinforcing Steel Comp. and Cont.

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.3, Cofferdams and Seals SDG's 3.7.
	Standards	Refer to 400- -ALL for details on all classes of concrete
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 8-AAA** **CLASS V CONCRETE** **CY**

AAA = Class V Applications
39 (Precast Segmental Superstructure)
40 (Precast Segmental Substructure)
106 (Microsilica Substructure)
107 (Microsilica Substructure-Mass)
239 (Low Shrink Deck) Material Only

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 8 5	CONCRETE CLASS V, SUBSTRUCTURE	CY	T	1/1/2010	
0400 8 22	CONCRETE CLASS V, SUPER STRUCTURE CLOSURE JOINT	CY	T	1/1/2010	
0400 8 25	CONC CLASS V MASS - SUBSTRUCTURE	CY	T	1/1/2010	
0400 8 39	CONCRETE CLASS V, PRECAST SEGMENTAL SUPERSTRUCTURE	CY	T	1/1/2010	
0400 8106	CONCRETE CLASS V, MICROSILICA SUBSTRUCTURE	CY	T	1/1/2010	
0400 8107	CONC CLASS V, MICROSILICA SUBSTRUCTURE MASS	CY		1/1/2010	

400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Item intended for cases where deck profilograph, and planing is required by specification. When rigid approach slab is utilized, include approach slab area. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 4.2

Standards

Specifications Section 400

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 9-** **BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 9	BRIDGE DECK GROOVING & PLANING, DECK 8.5"&>	SY		1/1/2010	

400- 16-AAA Class VI Concrete

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 16-AAA** **Class VI Concrete** **CY**

AAA = Application
22 (Superstructure Closure Joint)
25 (Mass- Substructure)
39 (Precast Segmental Superstructure)
42 (Substructure Self-Consolidating Concrete)
43 (Superstructure Self-Consolidating Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 16 22	CONCRETE, CLASS VI, SUPERSTRUCTURE - CLOSURE JOINT	CY	T	1/1/2010	
0400 16 25	CONCRETE CLASS VI, MASS, SUBSTRUCTURE	CY	T	1/1/2010	
0400 16 39	CONCRETE CLASS VI, PRECAST SEG SUPERST	CY	T	1/1/2010	
0400 16 42	CONCRETE CLASS VI, SUBSTRUCTURE SELF-CONSOLIDATING CONCRETE	CY	T	1/1/2010	
0400 16 43	CONCRETE CLASS VI, SUPERSTRUCTURE SELF-CONSOLIDATING CONCRETE	CY	T	1/1/2010	

400- 20- GRINDING BRIDGE DECK- REHABILITATION ONLY

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Estimates Support: Contact the State Structures Design Office before opening item.**

Details For use on bridge rehabilitation projects only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 20-** **GRINDING BRIDGE DECK- REHABILITATION ONLY** **SY**

Notes Estimates Support: Contact the State Structures Design Office before opening item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 20	GRINDING BRIDGE DECK- REHABILITATION	SY	M	1/1/2010	

400- 32- CONCRETE FOR JOINT REPAIR

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes

Notes

Details Intended for rehabilitation or widening projects to repair or replace concrete deck at expansion joints. Include in Quantity Block in Plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 6.4

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 32-** **CONCRETE FOR JOINT REPAIR** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 32	CONCRETE FOR JOINT REPAIR	CY	T	1/1/2010	

400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?**

Notes

Details Intended for Electrical Work associated with Cathodic Protection. 3 pay items (power, conduit, and equipment, as described below) are needed for a complete electrical system. Use with either 400-142 Cathodic Protection (CP) of mass concrete products , 455-81 CP for piles, or 457 items- CP for integral pile jackets. Contact the Materials Lab for assistance with using this item.

AC or DC POWER SOURCE ASSEMBLY: Includes all work and materials for providing power to the Cathodic Protection System. For AC assemblies, this includes all costs associated with connection between system and external power source. For DC assemblies, includes solar panels, batteries, incidentals, and wiring necessary to provide power.

CONDUIT: Includes all conduit from power source assembly to end location(s), junction boxes, wiring, and all incidentals. Measure as the length of conduit from the power system, along the bridge, and down each pier to be protected.

EQUIPMENT & INSTRUMENTATION: Lump sum item to include all remaining items necessary for a complete system. Detail major equipment, by location, in the plans or Tech Specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400-142, 455-81, or 457 items. **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK LS/LS

A= Components (Select only 1 power source assembly; use with BOTH A= 3 and 4)
1 (AC Power Source Assembly) LS
2 (DC Power Source Assembly) LS
3 (Conduit, Wiring, and Accessories) LS/LF
4 (Equipment & Instrumentation) LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 60 1	CATHODIC PROTECTION - ELECTRICAL WORK, AC POWER SOURCE ASSEMBLY	LS	T	1/1/2010	
0400 60 2	CATHODIC PROTECTION - ELECTRICAL WORK, DC POWER SOURCE ASSEMBLY	LS	T	1/1/2010	
0400 60 3	CATHODIC PROTECTION - ELECTRICAL WORK, CONDUIT, WIRING, AND ACCESSORIES	LS	T	1/1/2010	
0400 60 4	CATHODIC PROTECTION - ELECTRICAL WORK, EQUIPMENT & INSTRUMENTATION	LS	T	1/1/2010	

400- 72- PRECAST BULKHEAD PANELS

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details

Intended for precast panels used as part of a soldier pile wall system.
Pay Item note recommended; coordinate with specifications. Add pay item note similar to concrete sheet piles (Spec. 455-9.4 and 455-12.7) to include cost of trenching, preformed holes in cost of precast panels. Include in Soldier Wall Quantity Block in Plans.
May require specification modifications as follows: 455-5.15.2 and 455-5.15.3 Placement Tolerances (+/-1") and Batter Tolerances (1/8 in/ft)

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 455-34- AA

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 3.12.9 and Figure 3-13.
Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 72-** **PRECAST BULKHEAD PANELS** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 72	PRECAST BULKHEAD PANELS	SF	T	1/1/2010	

400- 91- DEWATERING FOR SPREAD FOOTINGS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

Required on all spread footing projects where dewatering is anticipated due to high water table. Include in Footing Quantity Block in Plans.
Usually used with Pay Items 400-4-25, 400-2-25, 415-1-5. Include Pay Item 125-1 only when additional excavation is required below bottom of footing elevation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 91-** **DEWATERING FOR SPREAD FOOTINGS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 91	DEWATERING FOR SPREAD FOOTINGS	EA	T	1/1/2010	

400- 95- A COFFERDAM

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

Intended to construct/dewater cofferdams. Cofferdams may be required to construct or demolish mud line footings located in the waterway. This pay item is not to be utilized when full containment structures are required due to special environmental turbidity requirements, or when a pier footing is located at the shoreline making dewatering difficult. Do not use for waterline or slightly submerged footings.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 3- 20 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 3.7.

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 95- A** **COFFERDAM** **EA**

A =
1 (Bascule Pier)
3 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400 95 1	COFFERDAM, BASCULE PIER	EA	T	1/1/2010	
0400 95 3	COFFERDAM, SPECIAL	EA	T	1/1/2010	

400-128- GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended for grouting the keyways of precast deck panels for both new and rehabilitation projects. On rehabilitation projects, include pay item notes to address payment of the various work items involved.
TSP may be required on rehabilitation projects to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-128-** **GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400128	GROUTING PRECAST DECK PANELS, NON-SHRINK GROUT	LF		1/1/2010	

400-136- EPOXY CONCRETE OVERLAY- STRUCTURES REHAB

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details

Used for rehabilitation of existing bridges. Item includes all costs for shotblasting deck, cleaning deck surface, testing cohesion, furnishing & installing epoxy overlay wearing surface. Contact State Structures Office for assistance.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-136-** **EPOXY CONCRETE OVERLAY- STRUCTURES REHAB** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400136	EPOXY CONCRETE OVERLAY- STRUCTURES REHAB	SY	T	1/1/2010	

400-140- A NEOPRENE PAD REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for rehabilitation and widening projects to replace existing damaged pads. Show locations w/ quantity block in plans. Include pay item note to include cost of neoprene pads, jacking bridge, disposal of old pads, and all other labor and materials required to replace existing bearing incidental to cost of this item.
For Composite pads, refer to pay item 400-147.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other SDG's 6.5
Standards Index No. 20500, 20501
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-140- A** **NEOPRENE PAD REPLACEMENT** **EA**

A =
1 (Bent / Pier)
2 (Abutment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400140 1	NEOPRENE PAD REPLACEMENT, BENT/PIER	EA	T	1/1/2010	
0400140 2	NEOPRENE PAD REPLACEMENT, ABUTMENT	EA	T	1/1/2010	

400-142- A CATHODIC PROTECTION SYSTEM

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects when galvanic or impressed current cathodic systems are used for mass concrete or structural components. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Use Item 400-60 for Electrical Work associated with this item.

DO NOT USE this item for Pile or Pile Jacket Cathodic Protection. See 455-81 (pile) or 457-71 (pile jacket) for other Cathodic Protection items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 60- A **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-142- A** **CATHODIC PROTECTION SYSTEM** **SF**

A =

3 (Zinc Aluminum Spray)
4 (Zinc Aluminum Sheets)
7 (Titanium Mesh)
8 (Titanium Bars)
9 (Other Material) to be used only with approval of State Corrosion Engineer/Materials Office

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400142 3	CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY	SF	T	1/1/2010	
0400142 4	CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SHEETS	SF	T	1/1/2010	
0400142 7	CATHODIC PROTECTION SYSTEM, TITANIUM MESH	SF	T	1/1/2010	
0400142 8	CATHODIC PROTECTION SYSTEM, TITANIUM BARS	SF	T	1/1/2010	
0400142 9	CATHODIC PROTECTION SYSTEM, OTHER MATERIAL	SF	T	1/1/2010	

400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details

This is a concrete texture coating utilized as a final concrete finish. This item is used on bridge widening jobs for applying a class 5 finish coating to existing concrete surfaces or where existing bridges/walls within the limits of a project require a class 5 finish coating.

Per specification, "The cost of coating new concrete will not be paid for separately, but will be included in the cost of the item to which it is applied."

Show locations in plans w/ quantity block.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Structures Design Manual, Vol 2- Detailing Manual, 13.13

Standards

Specifications Section 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-143-** **CLEANING AND COATING CONCRETE SURFACES, CLASS 5** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400143	CLEANING & COATING CONCRETE SURFACE, CLASS 5	SF		1/1/2010	

400-145- A CLEANING CONCRETE SURFACE

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** yes

Notes

Details Intended for cleaning existing class 5 finish coating of existing bridge. Show locations in plans w/ quantity block. Include pay item note in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400-145- A** **CLEANING CONCRETE SURFACE** **LS/SF**

A = location
Blank (Above Water)
1 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400145	CLEANING CONCRETE SURFACE	SF	T	1/1/2010	

400-147- COMPOSITE NEOPRENE PADS

Unit CF; M3 **Accuracy** 1/10 Cubic Foot; 1/100 Cubic Meter **PlanQuantity?** no

Notes

Details Intended for composite (steel reinforced) neoprene bearing pads for bridges. Include cost of plain neoprene bearing pads in cost of concrete superstructure component. Add pay item note for this case. Show locations in plans w/ quantity block.
For replacement of neoprene pads, refer to pay item 400-140.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5, Normally requires SHOP DRAWINGS

Standards Index No. 20500, 20501

Specifications Section 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-147-** **COMPOSITE NEOPRENE PADS** **CF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400147	COMPOSITE NEOPRENE PADS	CF		1/1/2010	

400-153- NON SHRINK GROUT- MISCELLANEOUS

Unit CF; M3 **Accuracy** 1/10 Cubic Foot; 1/100 Cubic Meter **PlanQuantity?** no

Notes

Details For rehabilitation/widening projects only. Use 10.0 CF (0.03 M3) as a minimum quantity. Show locations in plans w/ quantity block. Include pay item note in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-153-** **NON SHRINK GROUT- MISCELLANEOUS** **CF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0400153	NON SHRINK GROUT, F&I, MISCELLANEOUS- STRUCTURES REHAB	CF	T	1/1/2010	

401- 70- A RESTORE SPALLED AREAS

Unit CF; M3 **Accuracy** 1/10 Cubic Foot; 1/100 Cubic Meter **PlanQuantity?** no

Notes

Details Used on rehabilitation projects to cover costs of patching existing concrete spalls. Show locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of concrete patch.
Use 10.0 CF (1.00 M3) as a minimum quantity.

MATERIAL REQUIREMENTS NEEDED in the Technical Special Provisions.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **401- 70- A** **RESTORE SPALLED AREAS** **CF**

A =
1 (Epoxy)
2 (Latex Modified Mortar - Styrene-Butadiene)
3 (Latex Modified Mortar - Acrylic)
4 (Portland Cement Grout)
5 (Contractors Option)
6 (Thermosetting Polymer Concrete)
Blank (Gunite)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0401 70	RESTORE SPALLED AREAS, GUNITE	CF	T	1/1/2010	
0401 70 1	RESTORE SPALLED AREAS, EPOXY	CF	T	1/1/2010	
0401 70 2	RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- STYRENE BUTADIENE	CF	T	1/1/2010	
0401 70 3	RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- ACRYLIC	CF	T	1/1/2010	
0401 70 4	RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT	CF	T	1/1/2010	
0401 70 5	RESTORE SPALLED AREAS, CONTRACTORS OPTION	CF	T	1/1/2010	
0401 70 6	SPALLED AREAS RESTORE, THERMOSETTING POLYMER CONC	CF	T	1/1/2010	

405- 70- A LATEX MODIFIED PORTLAND CEMENT CONCRETE

Unit CF; M3 **Accuracy** 1/10 Cubic Foot; 1/100 Cubic Meter **PlanQuantity?** no

Notes

Details

Intended for thin deck overlays. Show locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of latex modified concrete overlay.
Use 10.0 CF (1.00 M3) as a minimum quantity.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **405- 70- A** **LATEX MODIFIED PORTLAND CEMENT CONCRETE** **CF**

A =
1 (Type I Cement)
2 (Type III Cement)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0405 70 1	LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I	CF	T	1/1/2010	
0405 70 2	LATEX MODIFIED PORTLAND CEMENT CONC,TYPE III	CF	T	1/1/2010	

407- 1- AB PRECAST THREE SIDED CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Per specifications, 3 sided box culvers are not an equivalent substitution for Precast Concrete Box Culverts. Refer to PPM for selection and design criteria.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 33

Other

Standards

Specifications Section 407

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **407- 1- AB** **PRECAST THREE SIDED CULVERT** **LF**

A= Span (Total width of culvert when multiple barrels)
1 (up to 20 ft)
2 (20-29 ft)
3 (30-39 ft)
4 (40-49 ft)
5 (50 ft or greater)

B= Height
1 (up to 10 ft)
2 (10 ft or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0407 1 21	PRECAST CONCRETE 3 SIDE BOX CULVERT, 20-29' SPAN, < OR = 10' HEIGHT	LF		1/1/2010	

411- 1- EPOXY MATERIAL FOR CRACK INJECTION

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?** no

Notes

Details Items 411-1 and 411-2 are for separate payment of materials and labor for Epoxy Injection of cracks in existing concrete surfaces, in accordance with specification Section 411.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications Section 411

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **411- 1-** **EPOXY MATERIAL FOR CRACK INJECTION** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0411 1	EPOXY MATERIAL FOR CRACK INJECTION-STRUCTURES REHAB	GA	T	1/1/2010	

411- 2- INJECT AND SEAL CRACK

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details See Item 411-1 for detail information.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications Section 411

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **411- 2-** **INJECT AND SEAL CRACK** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0411 2	CRACKS INJECT & SEAL- STRUCTURES REHAB	LF	T	1/1/2010	

413-149- PENETRANT SEALER

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?** no

Notes

Details NO SEPARATE PAYMENT FOR NEW, PRECAST ITEMS.
Pay Item for Rehabilitation jobs only. Intended to cover material cost of penetrant sealer.
Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items **Required** 413-154 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 413

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **413-149-** **PENETRANT SEALER** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0413149	PENETRANT SEALER	GA		1/1/2010	

413-151- METHACRYLATE MONOMER

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?** no

Notes

Details For use on rehabilitation projects to seal existing deck cracks. Contact State Materials (Gainesville Corrosion) Lab for assistance with Specs. Intended to cover material cost of methacrylate monomer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items **Required** 413-154 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 413

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **413-151-** **METHACRYLATE MONOMER** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0413151	METHACRYLATE MONOMER	GA		1/1/2010	

413-154- CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square **PlanQuantity?** no

Meter

Notes

Details NO SEPARATE PAYMENT for prestressed, precast items.

REFER TO SECTION 400 for other coatings.
Intended to cover labor cost of penetrant sealer or Methacrylates. Pay Item 413-149 or 413-151 to cover material costs. Show locations in plans w/ quantity block.

Related Items **Required** 413-149 or 413-151 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 413

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **413-154-** **CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0413154	CLEANING & SEALING CONCRETE SURFACES - PENETRANT SEALER OR METHACRYLATES	SF		1/1/2010	

415- 1- A REINFORCING STEEL

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Show locations in plans w/ quantity block by component (when component is constructed in phases break down quantity by phase). Include complete bar lists in plans.

APPROACH SLABS: Item No. 415- 1- 9 (2415- 1- 9) to be used with Item No. 400- 2- 10 (2400- 2- 10).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards ENDWALLS: Index No. 295
MISC: Index No. 280 for guard at pipe end

Specifications Section 415

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **415- 1- A** **REINFORCING STEEL** **LB**

A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
8 (Bulkhead)
9 (Approach Slabs)
13 (Steps)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0415 1 1	REINF STEEL- ROADWAY	LB		1/1/2010	
0415 1 3	REINFORCING STEEL- RETAINING WALL	LB		1/1/2010	
0415 1 4	REINFORCING STEEL - SUPERSTRUCTURE	LB		1/1/2010	
0415 1 5	REINFORCING STEEL- SUBSTRUCTURE	LB		1/1/2010	
0415 1 6	REINFORCING STEEL- MISCELLANEOUS	LB		1/1/2010	
0415 1 8	REINFORCING STEEL- BULKHEAD	LB		1/1/2010	
0415 1 9	REINFORCING STEEL- APPROACH SLABS	LB		1/1/2010	
0415 1 13	REINFORCING STEEL - STEPS	LB		1/1/2010	

415- 2- A REINFORCING STEEL- STAINLESS

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** no

Notes

Details Coordinate the use of Stainless Steel with the State Structures Office.
Intended for stainless steel or stainless steel clad reinforcing. Show locations in plans w/ quantity block. Include bar lists.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **415- 2- A** **REINFORCING STEEL- STAINLESS** **LB**

A =
6 (Miscellaneous)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0415 2 6	REINF STEEL- STAINLESS, MISCELLANEOUS	LB	T	1/1/2010	
0415 2 8	REINF STEEL- STAINLESS, BULKHEAD	LB	T	1/1/2010	6/30/2010

425- 1-AAB INLETS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

"Partial" is used when an existing structure is to be modified.
"Modified" is used when the standard structure on new construction is modified. Modification of the Standard Index Drawing by adding weirs, notches, skimmers, and/or a change to dimensions and reinforcement, are to be detailed in the plans.
"Special" is not limited to any particular inlet type. If a designer has a need for something other than an inlet covered by the standard indexes, it is regarded as special (as in special design). Special Designs require signed and sealed drawings to be included in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201, 210, 211, 212, 213, 215, 216, 217, 218, 219, 220, 221, 230, 232, 233,235,240, 282

Specifications Section 425

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 425- 1-AAB INLETS EA

AA =
20 (Curb Type 9)
21 (Curb Type 10)
31 (Curb Type P-1) B not 3, 4, 7, or 8
32 (Curb Type P-2) B not 3, 4, 7, or 8
33 (Curb Type P-3) B not 3, 4, 7, or 8
34 (Curb Type P-4) B not 3, 4, 7, or 8
35 (Curb Type P-5) B not 3, 4, 7, or 8
36 (Curb Type P-6) B not 3, 4, 7, or 8
41 (Curb Type J-1) B not 3, 4, 7, or 8
42 (Curb Type J-2) B not 3, 4, 7, or 8
43 (Curb Type J-3) B not 3, 4, 7, or 8
44 (Curb Type J-4) B not 3, 4, 7, or 8
45 (Curb Type J-5) B not 3, 4, 7, or 8
46 (Curb Type J-6) B not 3, 4, 7, or 8
47 (Curb Type 7)
48 (Curb Type 8)
50 (Ditch Bottom Type A)
51 (Ditch Bottom Type B)
52 (Ditch Bottom Type C)
53 (Ditch Bottom Type C Mod) B not 9
54 (Ditch Bottom Type D)
55 (Ditch Bottom Type E)
56 (Ditch Bottom Type F)
57 (Ditch Bottom Type G)
58 (Ditch Bottom Type H)
59 (Ditch Bottom Type I)
60 (Ditch Bottom Type J)
61 (Ditch Bottom Type K)
70 (Gutter Type S)
71 (Gutter Type V)
72 (Gutter Type S Mod) B not 9
80 (Med Barrier Type 1)
81 (Med Barrier Type 2)
82 (Med Barrier Spec Type 1)
83 (Med Barrier Spec Type 2)
84 (Med Barrier Type 3)
85 (Med Barrier Type 4)
86 (Med Barrier Type 5)
88(Barrier Wall, Rigid, Curb & Gutter)
89 (Barrier Wall)
90 (Special) B not 7 or 8*

91 (Closed Flume) B= 0

B =
1 (=< 10')
2 (> 10')
3 (J Bot, < 10') (Standard Index 201)
4 (J Bot, > 10') (Standard Index 201)
5 (Partial)
7 (J Bottom, <10', Special)
8 (J Bottom, >10', Special)
9 (Modify)
0 (N/A) only for A=91

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 1201	INLETS, CURB, TYPE 9, <10'	EA		1/1/2010	
0425 1202	INLETS, CURB, TYPE 9, >10'	EA		1/1/2010	
0425 1203	INLETS, CURB, TYPE 9, J BOT, <10'	EA		1/1/2010	
0425 1205	INLETS, CURB, TYPE 9, PARTIAL	EA		1/1/2010	
0425 1209	INLETS, CURB, TYPE 9, MODIFY	EA		1/1/2010	
0425 1211	INLETS, CURB, TYPE 10, <10'	EA		1/1/2010	
0425 1213	INLETS, CURB, TYPE 10, J BOT <10'	EA		1/1/2010	
0425 1215	INLETS, CURB, TYPE 10, PARTIAL	EA		1/1/2010	
0425 1311	INLETS, CURB, TYPE P-1, <10'	EA		1/1/2010	
0425 1312	INLETS, CURB TYPE P-1, >10'	EA		1/1/2010	
0425 1315	INLETS, CURB TYPE P-1, PARTIAL	EA		1/1/2010	
0425 1319	INLETS, CURB TYPE P-1, MODIFY	EA		1/1/2010	
0425 1321	INLETS, CURB, TYPE P-2, <10'	EA		1/1/2010	
0425 1322	INLETS, CURB, TYPE P-2, >10'	EA		1/1/2010	
0425 1325	INLETS, CURB, TYPE P-2, PARTIAL	EA		1/1/2010	
0425 1329	INLETS, CURB TYPE P-2, MODIFY	EA		1/1/2010	
0425 1331	INLETS, CURB, TYPE P-3, <10'	EA		1/1/2010	
0425 1332	INLETS, CURB. TYPE P-3, >10'	EA		1/1/2010	
0425 1335	INLETS, CURB, TYPE P-3, PARTIAL	EA		1/1/2010	
0425 1341	INLETS, CURB, TYPE P-4, <10'	EA		1/1/2010	
0425 1342	INLETS, CURB, TYPE P-4, >10'	EA		1/1/2010	
0425 1345	INLETS, CURB, TYPE P-4, PARTIAL	EA		1/1/2010	
0425 1351	INLETS, CURB, TYPE P-5, <10'	EA		1/1/2010	
0425 1352	INLETS, CURB, TYPE P-5, >10'	EA		1/1/2010	
0425 1355	INLETS, CURB, TYPE P-5, PARTIAL	EA		1/1/2010	
0425 1359	INLETS, CURB, TYPE P-5, MODIFY	EA		1/1/2010	
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA		1/1/2010	
0425 1362	INLETS, CURB, TYPE P-6, >10'	EA		1/1/2010	
0425 1365	INLETS, CURB, TYPE P-6, PARTIAL	EA		1/1/2010	
0425 1369	INLETS, CURB, TYPE P-6, MODIFY	EA		1/1/2010	

0425 1411	INLETS, CURB TYPE J-1, <10'	EA	1/1/2010
0425 1412	INLETS, CURB, TYPE J-1, >10'	EA	1/1/2010
0425 1415	INLETS, CURB, TYPE J-1, PARTIAL	EA	1/1/2010
0425 1419	INLETS, CURB, TYPE J-1, MODIFY	EA	1/1/2010
0425 1421	INLETS, CURB, TYPE J-2, <10'	EA	1/1/2010
0425 1422	INLETS, CURB, TYPE J-2, >10'	EA	1/1/2010
0425 1425	INLETS, CURB, TYPE J-2, PARTIAL	EA	1/1/2010
0425 1429	INLETS, CURB, TYPE J-2, MODIFY	EA	1/1/2010
0425 1431	INLETS, CURB, TYPE J-3, <10'	EA	1/1/2010
0425 1432	INLETS, CURB, TYPE J-3, >10'	EA	1/1/2010
0425 1435	INLETS, CURB, TYPE J-3, PARTIAL	EA	1/1/2010
0425 1441	INLETS, CURB, TYPE J-4, <10'	EA	1/1/2010
0425 1442	INLETS, CURB, TYPE J-4, >10'	EA	1/1/2010
0425 1445	INLETS, CURB, TYPE J-4, PARTIAL	EA	1/1/2010
0425 1451	INLETS, CURB, TYPE J-5, <10'	EA	1/1/2010
0425 1452	INLETS, CURB, TYPE J-5, >10'	EA	1/1/2010
0425 1455	INLETS, CURB, TYPE J-5, PARTIAL	EA	1/1/2010
0425 1459	INLETS, CURB, TYPE J-5, MODIFY	EA	1/1/2010
0425 1461	INLETS, CURB, TYPE J-6, <10'	EA	1/1/2010
0425 1462	INLETS, CURB, TYPE J-6, >10'	EA	1/1/2010
0425 1465	INLETS, CURB, TYPE J-6, PARTIAL	EA	1/1/2010
0425 1471	INLETS, CURB, TYPE 7, <10'	EA	1/1/2010
0425 1472	INLETS, CURB, TYPE 7, >10'	EA	1/1/2010
0425 1473	INLETS, CURB, TYPE 7, J BOT , <10'	EA	1/1/2010
0425 1474	INLETS, CURB, TYPE 7, J BOT ,>10'	EA	1/1/2010
0425 1475	INLETS, CURB, TYPE 7, PARTIAL	EA	1/1/2010
0425 1479	INLETS, CURB, TYPE 7, MODIFY	EA	1/1/2010
0425 1481	INLETS, CURB, TYPE 8, <10'	EA	1/1/2010
0425 1483	INLETS, CURB, TYPE 8, J BOT , <10'	EA	1/1/2010
0425 1484	INLETS, CURB, TYPE 8, J BOT ,>10'	EA	1/1/2010
0425 1485	INLETS, CURB, TYPE 8, PARTIAL	EA	1/1/2010
0425 1489	INLETS, CURB, TYPE 8, MODIFY	EA	1/1/2010
0425 1501	INLETS, DT BOT, TYPE A, <10'	EA	1/1/2010
0425 1502	INLETS, DT BOT, TYPE A, >10'	EA	1/1/2010
0425 1503	INLETS, DT BOT, TYPE A, J BOT, <10'	EA	1/1/2010
0425 1504	INLETS, DT BOT, TYPE A, J BOT, >10'	EA	1/1/2010
0425 1505	INLETS, DT BOT, TYPE A, PARTIAL	EA	1/1/2010
0425 1511	INLETS, DT BOT, TYPE B, <10'	EA	1/1/2010
0425 1512	INLETS, DT BOT, TYPE B, >10'	EA	1/1/2010
0425 1513	INLETS, DT BOT, TYPE B, J BOT, <10'	EA	1/1/2010
0425 1514	INLETS, DT BOT, TYPE B, J BOT, >10'	EA	1/1/2010
0425 1515	INLETS, DT BOT, TYPE B, PARTIAL	EA	1/1/2010
0425 1519	INLETS, DT BOT, TYPE B, MODIFY	EA	1/1/2010

0425 1521	INLETS, DT BOT, TYPE C,<10'	EA	1/1/2010
0425 1522	INLETS, DT BOT, TYPE C,>10'	EA	1/1/2010
0425 1523	INLETS, DT BOT, TYPE C,JBOT, <10'	EA	1/1/2010
0425 1524	INLETS, DT BOT, TYPE C, JBOT, >10'	EA	1/1/2010
0425 1525	INLETS, DITCH BOTTOM, TYPE C, PARTIAL	EA	1/1/2010
0425 1529	INLETS, DT BOT, TYPE C, MODIFY	EA	1/1/2010
0425 1531	INLETS, DT BOT, TYPE C, MODIFIED, <10''	EA	1/1/2010
0425 1532	INLETS, DT BOT, TYPE C, MODIFIED, >10''	EA	1/1/2010
0425 1533	INLETS, DT BOT, TYPE C, MODIFIED, J BOT, <10''	EA	1/1/2010
0425 1534	INLETS, DT BOT, TYPE C, MODIFIED, J BOT, >10''	EA	1/1/2010
0425 1535	INLETS, DT BOT, TYPE C, MODIFIED, PARTIAL	EA	1/1/2010
0425 1541	INLETS, DT BOT, TYPE D, <10'	EA	1/1/2010
0425 1542	INLETS, DT BOT, TYPE D, >10'	EA	1/1/2010
0425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	EA	1/1/2010
0425 1544	INLETS, DITCH BOTTOM, TYPE D, J BOT, >10'	EA	1/1/2010
0425 1545	INLETS, DITCH BOTTOM, TYPE D, PARTIAL	EA	1/1/2010
0425 1547	INLETS, DITCH BOTTOM, TYPE D, J BOTTOM, <10', SPECIAL	EA	1/1/2010
0425 1549	INLETS, DT BOT, TYPE D, MODIFY	EA	1/1/2010
0425 1551	INLETS, DT BOT, TYPE E, <10'	EA	1/1/2010
0425 1552	INLETS, DT BOT, TYPE E, >10'	EA	1/1/2010
0425 1553	INLETS, DT BOT, TYPE E, J BOT, <10'	EA	1/1/2010
0425 1554	INLETS, DT BOT, TYPE E, J BOT, >10'	EA	1/1/2010
0425 1555	INLETS, DT BOT, TYPE E, PARTIAL	EA	1/1/2010
0425 1557	INLETS, DITCH BOTTOM, TYPE E, J BOTTOM, <10', SPECIAL	EA	1/1/2010
0425 1559	INLETS, DT BOT, TYPE E, MODIFY	EA	1/1/2010
0425 1561	INLETS, DT BOT, TYPE F, <10'	EA	1/1/2010
0425 1562	INLETS, DT BOT, TYPE F, >10'	EA	1/1/2010
0425 1563	INLETS, DITCH BOTTOM, TYPE F, J BOT, <10'	EA	1/1/2010
0425 1564	INLETS, DITCH BOTTOM, TYPE F, J BOT, >10'	EA	1/1/2010
0425 1565	INLETS, DITCH BOTTOM, PARTIAL	EA	1/1/2010
0425 1567	INLETS, DITCH BOTTOM, TYPE F, J BOT, <10' - SPECIAL	EA	1/1/2010
0425 1568	INLETS,DITCH BOT,TYPE F, J BOT, >10', SPECIAL	EA	1/1/2010
0425 1569	INLETS, DITCH BOTTOM, TYPE F, MODIFY	EA	1/1/2010
0425 1571	INLETS, DITCH BOTTOM, TYPE G, <10'	EA	1/1/2010
0425 1572	INLETS, DITCH BOTTOM, TYPE G, >10'	EA	1/1/2010
0425 1573	INLETS, DITCH BOTTOM, TYPE G, J BOT, <10'	EA	1/1/2010

0425 1574	INLETS, DITCH BOTTOM, TYPE G, J BOT, >10'	EA	1/1/2010
0425 1577	INLETS, DITCH BOTTOM, TYPE G, J BOT, <10' , SPECIAL	EA	1/1/2010
0425 1578	INLETS, DITCH BOTTOM, TYPE G, J BOT, >10' , SPECIAL	EA	1/1/2010
0425 1579	INLETS, DITCH BOTTOM, TYPE G, MODIFY	EA	1/1/2010
0425 1581	INLETS, DT BOT, TYPE H, <10'	EA	1/1/2010
0425 1582	INLETS, DT BOT, TYPE H, >10'	EA	1/1/2010
0425 1583	INLETS, DT BOT, TYPE H, <10'	EA	1/1/2010
0425 1585	INLETS, DT BOT, TYPE H, PARTIAL	EA	1/1/2010
0425 1587	INLETS, DITCH BOTTOM, TYPE H, J BOTTOM, <10', SPECIAL	EA	1/1/2010
0425 1589	INLETS, DT BOT, TYPE H, MODIFY	EA	1/1/2010
0425 1601	INLETS, DT BOT, TYPE J, <10'	EA	1/1/2010
0425 1602	INLETS, DT BOT, TYPE J, >10'	EA	1/1/2010
0425 1603	INLETS, DT BOT, TYPE J, J BOT, <10'	EA	1/1/2010
0425 1604	INLETS, DT BOT, TYPE J, JBOT,>10'	EA	1/1/2010
0425 1609	INLETS, DT BOT, TYPE J, MODIFY	EA	1/1/2010
0425 1611	INLETS, DITCH BOTTOM, TYPE K, <10'	EA	1/1/2010
0425 1617	INLETS, DITCH BOTTOM, TYPE K, J BOTTOM, <10' SPECIAL	EA	1/1/2010
0425 1619	INLETS, DITCH BOTTOM, TYPE K, J BOTTOM, MODIFY	EA	1/1/2010
0425 1701	INLETS, GUTTER, TYPE S, <10'	EA	1/1/2010
0425 1702	INLETS, GUTTER, TYPE S, >10'	EA	1/1/2010
0425 1703	INLETS, GUTTER, TYPE S, J BOTTOM <10'	EA	1/1/2010
0425 1704	INLETS, GUTTER, TYPE S, J BOTTOM, >10'	EA	1/1/2010
0425 1705	INLETS, GUTTER, TYPE S, PARTIAL	EA	1/1/2010
0425 1707	INLET,GUTTER TYPE S,J BOTTOM,<10',SPECIAL	EA	1/1/2010
0425 1708	INLET,GUTTER TYPE S,J BOTTOM,>10',SPECIAL	EA	1/1/2010
0425 1711	INLETS, GUTTER, TYPE V, <10'	EA	1/1/2010
0425 1712	INLETS, GUTTER, TYPE V, >10'	EA	1/1/2010
0425 1713	INLETS, GUTTER, TYPE V, J BOT, <10'	EA	1/1/2010
0425 1714	INLETS, GUTTER, TYPE V, J BOTTOM, >10'	EA	1/1/2010
0425 1715	INLETS, GUTTER, TYPE V, PARTIAL	EA	1/1/2010
0425 1719	INLETS, GUTTER, TYPE V, MODIFY	EA	1/1/2010
0425 1725	INLETS, GUTTER, TYPE S MOD, PARTIAL	EA	1/1/2010
0425 1801	INLETS, MEDIAN BARRIER, TYPE 1, <10'	EA	1/1/2010
0425 1802	INLETS, MEDIAN BARRIER, TYPE 1, >10'	EA	1/1/2010
0425 1803	INLETS, MEDIAN BARRIER, TYPE 1, J BOT, <10'	EA	1/1/2010
0425 1804	INLETS, MEDIAN BARRIER, TYPE 1, J BOT, >10'	EA	1/1/2010

0425 1805	INLETS, MEDIAN BARRIER, TYPE 1, PARTIAL	EA	1/1/2010
0425 1807	INLETS, MEDIAN BARRIER, TYPE 1, J BOT, <10' SPECIAL	EA	1/1/2010
0425 1811	INLETS, MEDIAN BARRIER, TYPE 2, <10'	EA	1/1/2010
0425 1812	INLETS, MEDIAN BARRIER, TYPE 2, >10'	EA	1/1/2010
0425 1813	INLETS, MEDIAN BARRIER, TYPE 2, J BOT, <10'	EA	1/1/2010
0425 1814	INLETS, MEDIAN BARRIER, TYPE 2, J BOT, >10'	EA	1/1/2010
0425 1815	INLETS, MEDIAN BARRIER, TYPE 2, PARTIAL	EA	1/1/2010
0425 1833	INLETS, MEDIAN BARRIER SPEC TYPE 2, J BOT, <10'	EA	1/1/2010
0425 1841	INLETS, MEDIAN BARRIER, TYPE 3, <10'	EA	1/1/2010
0425 1842	INLETS, MEDIAN BARRIER, TYPE 3, >10'	EA	1/1/2010
0425 1843	INLETS, MEDIAN BARRIER, TYPE 3, J BOT, <10'	EA	1/1/2010
0425 1844	INLETS, MEDIAN BARRIER, TYPE 3, J BOT, >10'	EA	1/1/2010
0425 1845	INLETS, MEDIAN BARRIER, TYPE 3, PARTIAL	EA	1/1/2010
0425 1847	INLETS, MEDIAN BARRIER, TYPE 3, J BOTTOM, <10', SPECIAL	EA	1/1/2010
0425 1848	INLETS, MEDIAN BARRIER, TYPE 3, J BOTTOM, >10', SPECIAL	EA	1/1/2010
0425 1851	INLETS, MEDIAN BARRIER, TYPE 4, <10'	EA	1/1/2010
0425 1852	INLETS, MEDIAN BARRIER, TYPE 4, >10'	EA	1/1/2010
0425 1853	INLETS, MEDIAN BARRIER, TYPE 4, J BOT, <10'	EA	1/1/2010
0425 1854	INLETS, MEDIAN BARRIER, TYPE 4, J BOT, >10'	EA	1/1/2010
0425 1855	INLETS, MEDIAN BARRIER, TYPE 4, PARTIAL	EA	1/1/2010
0425 1857	INLETS, MEDIAN BARRIER, TYPE 4, J BOTTOM, <10', SPECIAL	EA	1/1/2010
0425 1859	INLETS, MEDIAN BARRIER TYPE 4, MODIFY	EA	1/1/2010
0425 1861	INLETS, MEDIAN BARRIER TYPE 5, < 10'	EA	1/1/2010
0425 1862	INLETS, MB, TYPE 5, >10'	EA	1/1/2010
0425 1863	INLETS, MB, TYPE 5, J BOT, <10'	EA	1/1/2010
0425 1864	INLETS, MB, TYPE 5, J BOT, >10'	EA	1/1/2010
0425 1865	INLETS, MB, TYPE 5, PARTIAL	EA	1/1/2010
0425 1869	INLETS, MB, TYPE 5, MODIFY	EA	1/1/2010
0425 1881	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, <10'	EA	1/1/2010
0425 1882	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, >10'	EA	1/1/2010
0425 1883	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT<10'	EA	1/1/2010
0425 1884	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT>10'	EA	1/1/2010

0425 1885	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, PARTIAL	EA		1/1/2010
0425 1887	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J-BOTTOM,<10', S	EA		1/1/2010
0425 1889	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, MODIFY	EA		1/1/2010
0425 1891	INLETS, BARRIER WALL, <10'	EA		1/1/2010
0425 1892	INLETS, BARRIER WALL, >10'	EA		1/1/2010
0425 1893	INLETS, BARRIER WALL, J BOT, <10'	EA		1/1/2010
0425 1894	INLETS, BARRIER WALL, J BOT, >10'	EA		1/1/2010
0425 1895	INLETS, BARRIER WALL, PARTIAL	EA		1/1/2010
0425 1898	INLETS, BARRIER WALL, J BOT, >10', SPECIAL	EA		1/1/2010
0425 1899	INLETS, BARRIER WALL, MODIFY	EA		1/1/2010
0425 1901	INLETS, SPECIAL, <10'	EA	T	1/1/2010
0425 1902	INLETS, SPECIAL, >10'	EA	T	1/1/2010
0425 1903	INLETS, SPECIAL, J BOTTOM <10'	EA	T	1/1/2010
0425 1904	INLETS, SPECIAL, J BOTTOM >10'	EA	T	1/1/2010
0425 1905	INLETS, SPECIAL, PARTIAL	EA	T	1/1/2010
0425 1909	INLETS, SPECIAL, MODIFY	EA	T	1/1/2010
0425 1910	INLETS, CLOSED FLUME, N/A	EA		1/1/2010

425- 2-AAB MANHOLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details The designer should consider calling for a ring and cover where routine cleanout and inspection is anticipated, such as a French Drain.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201

Specifications Section 425

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 2-AAB** **MANHOLES** **EA**

AA =

4 (P-7)
6 (P-8)
7 (J-7)
9 (J-8)
10 (Special) Plan Detail and/or Tech Spec required

B =
1 (=< 10') Refer to Index 201
2 (> 10') " " " "
3 (Partial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 2 41	MANHOLES, P-7, <10'	EA		1/1/2010	
0425 2 42	MANHOLES, P-7, >10'	EA		1/1/2010	
0425 2 43	MANHOLES, P-7, PARTIAL	EA		1/1/2010	
0425 2 61	MANHOLES, P-8, <10'	EA		1/1/2010	
0425 2 62	MANHOLES, P-8, >10'	EA		1/1/2010	
0425 2 63	MANHOLES, P-8, PARTIAL	EA		1/1/2010	
0425 2 71	MANHOLES, J-7, <10'	EA		1/1/2010	
0425 2 72	MANHOLES, J-7, >10'	EA		1/1/2010	
0425 2 73	MANHOLES, J-7, PARTIAL	EA		1/1/2010	
0425 2 91	MANHOLES, J-8, <10'	EA		1/1/2010	
0425 2 92	MANHOLES, J-8, >10'	EA		1/1/2010	
0425 2 93	MANHOLES, J-8, PARTIAL	EA		1/1/2010	
0425 2101	MANHOLES, SPECIAL, <10'	EA	T	1/1/2010	
0425 2102	MANHOLES, SPECIAL, >10'	EA	T	1/1/2010	
0425 2103	MANHOLES, SPECIAL, PARTIAL	EA	T	1/1/2010	
0425 2110	MANHOLES, REPAIR	EA	T	1/1/2010	

425- 3-AAB JUNCTION BOX (DRAINAGE)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to the specifications for requirements.

REPAIR: Detail repairs to be completed in the plans or specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 200, 201

Specifications Section 425

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 3-AAB** **JUNCTION BOX (DRAINAGE)** **EA**

AA =
4 (P-7)
6 (J-7)
5 (Repair) B=0
8 (Special)*
9 (Utility)
10 (Utility, Modify)
11 (Utility, Remove)

B =
1 (=< 10') Refer to Index 201
2 (> 10') " " "
3 (Partial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 3 41	JUNCTION BOX, DRAINAGE, P-7, <10'	EA		1/1/2010	
0425 3 42	JUNCTION BOXES, P-7, >10'	EA		1/1/2010	
0425 3 43	JUNCTION BOX, DRAINAGE, P-7, PARTIAL	EA		1/1/2010	
0425 3 50	JUNCTION BOX, DRAINAGE, REPAIR	EA	T	7/1/2020	
0425 3 61	JUNCTION BOXES, J-7, <10'	EA		1/1/2010	
0425 3 63	JUNCTION BOXES, DRAINAGE, J-7, PARTIAL	EA		1/1/2010	
0425 3 81	JUNCTION BOX, DRAINAGE, SPECIAL, < 10'	EA		1/1/2010	
0425 3 82	JUNCTION BOX, DRAINAGE, SPECIAL, > 10'	EA		1/1/2010	
0425 3 83	JUNCTION BOX, DRAINAGE, SPECIAL, PARTIAL	EA		1/1/2010	
0425 3 91	JUNCTION BOX, DRAINAGE, UTILITY, < 10'	EA		1/1/2010	
0425 3 92	JUNCTION BOX, DRAINAGE, UTILITY, > 10'	EA		1/1/2010	

425- 4- **INLET- ADJUST**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Consists of changing the vertical placement of an existing inlet so that it will conform to the finished grade as designated in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	sumdrd.dgn: Summary of Drainage Structures
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 200, 201, 210
	Specifications	Section 425
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 4-** **INLET- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 4	INLETS, ADJUST	EA		1/1/2010	

425- 5- A MANHOLES- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Consists of changing the vertical placement of an existing manhole so that it will conform to the finished grade as designated in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	sumdrd.dgn: Summary of Drainage Structures
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 200, 201
	Specifications	Section 425
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 5- A** **MANHOLES- ADJUST** **EA**

A =
Blank (Standard)
1 (Utilities)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 5	MANHOLE, ADJUST	EA		1/1/2010	
0425 5 1	MANHOLE, ADJUST, UTILITIES	EA		1/1/2010	

425- 6- VALVE BOX- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 425

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 6-** **VALVE BOX- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 6	VALVE BOXES, ADJUST	EA		1/1/2010	

425- 8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 425
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 8-** **DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 8	DRAINAGE STRUCTURES, MISCELLANEOUS, ADJUST	EA		1/1/2010	

425- 10- YARD DRAIN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use outside of the R/W. Refer to Design Standard for details.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 282
	Specifications	Section 425
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 10-** **YARD DRAIN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 10	YARD DRAIN	EA		1/1/2010	

425- 11- DRAINAGE STRUCTURE- MODIFY EXISTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 11-** **DRAINAGE STRUCTURE- MODIFY EXISTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 11	DRAINAGE STRUCTURE MODIFY	EA	T	1/1/2010	

425- 71- INLETS RELOCATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 71-** **INLETS RELOCATION** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 71	INLETS RELOCATING	EA	T	1/1/2010	

425- 74- A MANHOLES AND INLETS, CLEANING & SEALING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 74- A** **MANHOLES AND INLETS, CLEANING & SEALING** **EA**

A =
1 (<10')
2 (>10')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 74 1	MANHOLES & INLETS CLEANING & SEALING, <10'	EA	T	1/1/2010	
0425 74 2	MANHOLES & INLETS CLEANING & SEALING, >10'	EA	T	1/1/2010	

425- 78- INLET CAP, PRECAST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201, 280

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 78-** **INLET CAP, PRECAST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 78	INLET CAP, PRECAST	EA	T	1/1/2010	

425- 82- REPLACE GRATE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Payment includes "…new grates, and removing and stockpiling existing grates", per specification.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Special Provision available

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 82-** **REPLACE GRATE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0425 82	REPLACE GRATE	EA		1/1/2010	

430- 94- AA DESILT PIPE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Includes furnishing equipment and labor necessary to desilt the pipe, and also includes disposing of all silt and debris removed during the desilting operation.
Summarize on plans by pipe location, diameter (or equivalent round diameter), and length to be desilted.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES: Sidedrain & MES, w/o offset

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430- 94- AA** **DESILT PIPE** **LF**

AA= Pipe Diameter
1 (0 to 24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430 94 1	DESILTING PIPE, 0 - 24"	LF		1/1/2010	
0430 94 2	DESILTING PIPE, 25 - 36"	LF		1/1/2010	
0430 94 3	DESILTING PIPE, 37 - 48"	LF		1/1/2010	
0430 94 4	DESILTING PIPE, 49 - 60"	LF		1/1/2010	
0430 94 5	DESILTING PIPE, 61" OR GREATER	LF		1/1/2010	

430-17A-BCC PIPE CULVERT OPTIONAL MATERIAL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes **Pipe Ranges valid through 12-31-2010. Specific pipe sizes effective 1/1/2011, but may be implemented 7-1-10.**

Details Show application, size, and material with class/gage/corrugation on the contract plans. Refer to Index 205 for valid sizes, class/gage/corrugation. For pipe other than round (elliptical concrete and metal pipe arch) show actual size, class/gage/corrugation shown on standard index 205. Use equivalent round pipe size for payment.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES: Sidedrain & MES, w/o offset

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Drainage Manual

Standards Index No. 205

Specifications Section 430

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-17A-BCC** **PIPE CULVERT OPTIONAL MATERIAL** **LF**

A = Application
3 (Gutter Drain) GD
4 (Side Drain) SD
5 (Storm and Cross Drain)

B = Shape
1 (Round Shape)

2 (Other –Elliptical/Arch)

CC= Standard Pipe Sizes, valid through 12-31-2010
01 (up to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)

CC = Standard Pipe Sizes, available for projects let 7-1-10; required Effective 1-1-2011
12 (12")
15 (15")
18 (18")
24 (24")
30 (30")
36 (36")
42 (42")
48 (48")
54 (54")
60 (60")
66 (66")
72 (72")
78 (78")
84 (84")
90 (90")
96 (96")
99 (99” or greater) Note size in plans

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430173101	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 0-24", GUTTER DRAIN	LF		1/1/2010	12/31/2010
0430173102	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 25-36", GUTTER DRAIN	LF		1/1/2010	12/31/2010
0430173103	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 37-48"GD	LF		1/1/2010	12/31/2010
0430173112	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 12", GUTTER DRAIN	LF		7/1/2010	
0430173118	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 18", GUTTER DRAIN	LF		7/1/2010	
0430173124	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 24", GUTTER DRAIN	LF		7/1/2010	
0430173130	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 30", GUTTER DRAIN	LF		7/1/2010	
0430173136	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 36", GUTTER DRAIN	LF		7/1/2010	
0430173142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"GD	LF		7/1/2010	
0430173148	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 37-48"GD	LF		7/1/2010	12/31/2010
0430173201	PIPE CULVERT OPTIONAL MATERIAL, OTHER - ELLIP ARCH, 0-24", GUTTER DRAIN	LF		1/1/2010	12/31/2010

0430174101	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 0-24"SD	LF	1/1/2010	12/31/2010
0430174102	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 25-36"SD	LF	1/1/2010	12/31/2010
0430174103	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 37-48"SD	LF	1/1/2010	12/31/2010
0430174104	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 49-60"SD	LF	1/1/2010	12/31/2010
0430174112	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 12"SD	LF	7/1/2010	
0430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	LF	7/1/2010	
0430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	7/1/2010	
0430174124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD	LF	1/1/2010	
0430174130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD	LF	7/1/2010	
0430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"SD	LF	7/1/2010	
0430174142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"SD	LF	7/1/2010	
0430174148	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 48"SD	LF	7/1/2010	
0430174154	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 54"SD	LF	7/1/2010	
0430174160	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 60"SD	LF	7/1/2010	
0430174201	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 0-24"SD	LF	1/1/2010	12/31/2010
0430174202	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 25-36"SD	LF	1/1/2010	12/31/2010
0430174203	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 37-48"SD	LF	1/1/2010	12/31/2010
0430174204	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 49-60"SD	LF	1/1/2010	12/31/2010
0430174215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 15"SD	LF	7/1/2010	
0430174218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 18"SD	LF	7/1/2010	
0430174224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 24"SD	LF	7/1/2010	
0430174230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 30"SD	LF	7/1/2010	
0430174236	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 36"SD	LF	7/1/2010	
0430175101	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 0-24"S/CD	LF	1/1/2010	12/31/2010
0430175102	PIPE CULVERT, OPT MATERIAL, ROUND, 25-36"S/CD	LF	1/1/2010	12/31/2010

0430175103	PIPE CULVERT, OPT MATERIAL, ROUND, 37-48"S/CD	LF	1/1/2010	12/31/2010
0430175104	PIPE CULVERT, OPT MATERIAL, ROUND, 49-60"S/CD	LF	1/1/2010	12/31/2010
0430175105	PIPE CULVERT, OPT MATERIAL, ROUND, 61" OR > S/CD	LF	1/1/2010	12/31/2010
0430175112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	7/1/2010	
0430175115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	7/1/2010	
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	7/1/2010	
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	7/1/2010	
0430175130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	7/1/2010	
0430175136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	7/1/2010	
0430175142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	7/1/2010	
0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	7/1/2010	
0430175154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	LF	7/1/2010	
0430175160	PIPE CULVERT, OPT MATERIAL, ROUND, 60"S/CD	LF	7/1/2010	
0430175166	PIPE CULVERT, OPT MATERIAL, ROUND, 66"S/CD	LF	7/1/2010	
0430175201	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 0-24"S/CD	LF	1/1/2010	12/31/2010
0430175202	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 25-36"S/CD	LF	1/1/2010	12/31/2010
0430175203	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 37-48"S/CD	LF	1/1/2010	12/31/2010
0430175204	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 49-60"S/CD	LF	1/1/2010	12/31/2010
0430175205	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 61" OR >,S/CD	LF	1/1/2010	12/31/2010
0430175215	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 15"S/CD	LF	7/1/2010	
0430175218	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 18"S/CD	LF	7/1/2010	
0430175224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	LF	7/1/2010	
0430175230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	LF	7/1/2010	
0430175236	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 36"S/CD	LF	7/1/2010	

0430175242	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 42"S/CD	LF	7/1/2010
0430175248	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 48"S/CD	LF	7/1/2010
0430175254	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 54"S/CD	LF	7/1/2010

430-200-ABB FLARED END SECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for use outside the clear zone on median drain and cross drain installations. Pipe sizes 12" and 15" (300 mm and 375 mm) are permitted within the clear zone. Specifically not intended for side drain installation.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 270

Specifications Section 430

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-200-ABB** **FLARED END SECTION** **EA**

A =
Blank (Concrete)

BB = Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430200 21	FLARED END SECTION, CONCRETE, 12"	EA		1/1/2010	
0430200 23	FLARED END SECTION, CONCRETE, 15"	EA		1/1/2010	
0430200 25	FLARED END SECTION, CONCRETE, 18"	EA		1/1/2010	
0430200 29	FLARED END SECTION, CONCRETE, 24"	EA		1/1/2010	
0430200 33	FLARED END SECTION, CONCRETE, 30"	EA		1/1/2010	
0430200 38	FLARED END SECTION, CONCRETE, 36"	EA		1/1/2010	
0430200 40	FLARED END SECTION, CONCRETE, 42"	EA		1/1/2010	
0430200 41	FLARED END SECTION, CONCRETE, 48"	EA		1/1/2010	
0430200 42	FLARED END SECTION, CONCRETE, 54"	EA		1/1/2010	
0430200 43	FLARED END SECTION, CONCRETE, 60"	EA		1/1/2010	
0430200 44	FLARED END SECTION, CONCRETE, 66"	EA		1/1/2010	
0430200 45	FLARED END SECTION, CONCRETE, 72"	EA		1/1/2010	

430-6AB-CDD U-ENDWALL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Refer to Standard Index 260 or 261 for proper selection. to be used only in the clear zone for the drainage of medians and other areas having low design velocities. Precasting or cast-in-place will be permitted. Cost of this item shall include concrete, reinforcing steel, grate and all accessories.

For items included on Index 250, payment will be made under concrete and steel items. Refer to Design Standards.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 260, 261

Specifications Section 430

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **430-6AB-CDD** **U-ENDWALL** **EA**

A =Index No.
0 (Std 260) when A =0, BC =21
1 (Std 261)

B = Appurtenance

0 (none)
1 (baffles)
2 (grate)
3 (baffles and grate)

C = slope
0 (1:6)
1 (1:4)
2 (1:3)
3 (1:2)

DD = Standard Pipe Sizes
23 (15")
25 (18")
29 (24")
33 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430600025	U-ENDWALL, STD 260, 1:6 SLOPE, 18"PIPE	EA		1/1/2010	
0430600125	U-ENDWALL, STD 260, 1:4 SLOPE, 18"PIPE	EA		1/1/2010	
0430602123	U-ENDWALL, WITH GRATE,STD INDEX 260, 1:4 SLOPE, 15"	EA		1/1/2010	
0430602125	U-ENDWALL, WITH GRATE,STD 260, 1:4 SLOPE, 18"	EA		1/1/2010	
0430602129	U-ENDWALL, WITH GRATE,STD 260, 1:4 SLOPE, 24"	EA		1/1/2010	
0430602133	U-ENDWALL, WITH GRATE,STD INDEX 260, 1:4 SLOPE, 30"	EA		1/1/2010	
0430610025	U-ENDWALL, STD 261, 1:6 SLOPE, 18"PIPE	EA		1/1/2010	
0430610029	U-ENDWALL, STD 261, 1:6 SLOPE, 24"PIPE	EA		1/1/2010	
0430610123	U-ENDWALL, STD 261, 1:4 SLOPE, 15"PIPE	EA		1/1/2010	
0430610125	U-ENDWALL, STD 261, 1:4 SLOPE, 18"PIPE	EA		1/1/2010	
0430610129	U-ENDWALL, STD 261, 1:4 SLOPE, 24"PIPE	EA		1/1/2010	
0430610133	U-ENDWALL, STD 261, 1:4 SLOPE, 30"PIPE	EA		1/1/2010	
0430610223	U-ENDWALL, STD 261, 1:3 SLOPE, 15"PIPE	EA		1/1/2010	
0430610225	U-ENDWALL, STD 261, 1:3 SLOPE, 18"PIPE	EA		1/1/2010	
0430610229	U-ENDWALL, STD 261, 1:3 SLOPE, 24"PIPE	EA		1/1/2010	
0430610233	U-ENDWALL, STD 261, 1:3 SLOPE, 30"PIPE	EA		1/1/2010	
0430610323	U-ENDWALL, STD 261, 1:2 SLOPE, 15"PIPE	EA		1/1/2010	
0430610325	U-ENDWALL, STD 261, 1:2 SLOPE, 18"PIPE	EA		1/1/2010	
0430610329	U-ENDWALL, STD 261,1:2 SLOPE, 24"PIPE	EA		1/1/2010	
0430611025	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 18"PIPE	EA		1/1/2010	
0430611029	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 24"PIPE	EA		1/1/2010	
0430611033	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 30"PIPE	EA		1/1/2010	

0430611123	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 15"PIPE	EA	1/1/2010
0430611125	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 18"PIPE	EA	1/1/2010
0430611129	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 24"PIPE	EA	1/1/2010
0430611133	U-ENDWALL WITH BAFFLES,STD 261,1:4 SLOPE,30"PIPE	EA	1/1/2010
0430611223	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 15"PIPE	EA	1/1/2010
0430611225	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 18"PIPE	EA	1/1/2010
0430611229	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 24"PIPE	EA	1/1/2010
0430611233	U-ENDWALL, STD 261, BAFFLES, 1:3 SLOPE, 30"PIPE	EA	1/1/2010
0430611323	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 15"PIPE	EA	1/1/2010
0430611325	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 18"PIPE	EA	1/1/2010
0430611329	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 24"PIPE	EA	1/1/2010
0430611333	U-ENDWALL, BAFFLES, STD 261, 1:2 SLOPE, 30"PIPE	EA	1/1/2010
0430612023	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 18"	EA	1/1/2010
0430612025	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 18"PIPE	EA	1/1/2010
0430612029	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 24"PIPE	EA	1/1/2010
0430612033	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 30"	EA	1/1/2010
0430612125	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 18"PIPE	EA	1/1/2010
0430612129	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 24"PIPE	EA	1/1/2010
0430612133	U-ENDWALL, GRATE, STD 261, 1:4 SLOPE, 30" PIPE	EA	1/1/2010
0430612329	U-ENDWALL WITH GRATE, STD 261, 1:2 SLOPE, 24"PIPE	EA	1/1/2010
0430612333	U-ENDWALL, GRATE, STD 261, 1:2 SLOPE, 30" PIPE	EA	1/1/2010
0430613025	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:6 SLOPE, 18"	EA	1/1/2010
0430613029	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:6 SLOPE, 24"PIPE	EA	1/1/2010
0430613033	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:6 SLOPE, 30"	EA	1/1/2010
0430613123	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,15"PIPE	EA	1/1/2010

0430613125	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,18"PIPE	EA	1/1/2010
0430613133	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,30"PIPE	EA	1/1/2010
0430613225	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:3 SLOPE,18"PIPE	EA	1/1/2010
0430613233	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:3 SLOPE,30"PIPE	EA	1/1/2010
0430613325	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:2 SLOPE,18"PIPE	EA	1/1/2010
0430613333	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:2 SLOPE,30"PIPE	EA	1/1/2010

430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details to be used for French Drain applications only. Refer to Design Standards. Show size, class/gage and material on the contract plans. Payment is based on equivalent round pipe size.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES: Sidedrain & MES, w/o offset

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 205, 285

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-72A-BCC** **PIPE, SLOTTED OR PERFORATED CULVERT** **LF**

A =
1 (Storm Sewer) French Drain ONLY

B = Material
4 (Optional)

CC = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")

38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430721423	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 15" SS	LF	T	1/1/2010	
0430721425	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 18" SS	LF	T	1/1/2010	
0430721429	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 24" SS	LF	T	1/1/2010	
0430721433	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 30" SS	LF	T	1/1/2010	
0430721438	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 36" SS	LF	T	1/1/2010	
0430721443	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 60" SS	LF		1/1/2010	

430-82A- BB CLEANING & SEALING EXISTING PIPE JOINT

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

For cleaning and sealing existing joints only.

Coordinate use of this item w/ State Drainage Office to evaluate the condition of the existing pipe. Replacement of the pipe (paid under optional pipe) should be considered.

Tech Specs should detail the work to be completed, the sealing materials, and any testing that may be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **430-82A- BB** **CLEANING & SEALING EXISTING PIPE JOINT** **EA**

A =
1 (Storm Sewer)
2 (Cross Drain)

BB = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
61 (61" and greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430821 33	CLEANING & SEALING EXISTING PIPE JOINT, 30" STORM SEWER	EA	T	1/1/2010	
0430822 29	CLEANING & SEALING EXISTING PIPE JOINT, 24" CD	EA	T	1/1/2010	
0430822 33	CLEANING & SEALING EXISTING PIPE JOINT, 30" CD	EA	T	1/1/2010	
0430822 38	CLEANING & SEALING EXISTING PIPE JOINT, 36" CD	EA	T	1/1/2010	
0430822 42	CLEANING & SEALING EXISTING PIPE JOINT, 54" CD	EA	T	1/1/2010	
0430822 43	CLEANING & SEALING EXISTING PIPE JOINT, 60" CD	EA	T	1/1/2010	

430-830- PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details to be used only for filling/plugging existing drainage culverts, where called for in the plans. Per the specifications, "The cost of filling and plugging pipe shown in the plans as existing, to be placed out of service"
NOTE: "The cost of plugging pipe, shown in the plans as proposed new pipe, will be included in the contract unit price for pipe culvert." (Do not use this pay item for temporarily plugging new pipe.)

Related Items	**Required**	**Recommended**
Forms	**Design**	sumdrd.dgn: Summary of Drainage Structures
	Construction	700-050-56
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 280
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-830-** **PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430830	PIPE FILLING AND PLUGGING- PLACE OUT OF SERVICE	CY		1/1/2010	

430-860- A STORM SEWER TRENCH

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Related Items	**Required**	**Recommended**
Forms	**Design**	sumdrd.dgn: Summary of Drainage Structures
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-860- A** **STORM SEWER TRENCH** **LF**

A =
2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

430-880- AA **FLAP GATES**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Drainage Manual for additional information.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-880- AA** **FLAP GATES** **EA**

AA= Standard Pipe Sizes (effective 1/1/2007)
01 (0 to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430880 01	FLAP GATES, 0-24"	EA	T	1/1/2010	
0430880 02	FLAP GATES, 25-36"	EA	T	1/1/2010	
0430880 03	FLAP GATES, 37-48"	EA	T	1/1/2010	
0430880 04	FLAP GATES, 49-60"	EA	T	1/1/2010	

430-950- DESILTING CONCRETE BOX CULVERT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Payment is for the VOLUME OF SILT removed, based on the length and width of the box culvert, and the average DEPTH OF SILT to be removed.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 430

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **430-950-** **DESILTING CONCRETE BOX CULVERT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430950	DESILTING CONCRETE BOX CULVERT,	CY		1/1/2010	

430-963- AA PVC PIPE FOR BACK OF SIDEWALK DRAINAGE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?**

Notes

Details For use according to Design Standard for back of sidewalk applications. Index calls for 4" PVC. Non-standard diameters must be shown with plan details and material requirements.

For all other applications, including gutter drain, use Optional Pipe.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 282
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-963- AA** **PVC PIPE FOR BACK OF SIDEWALK DRAINAGE** **LF**

A= Size
1 (4" diameter) Standard
2 (Non-Standard diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430963 1	PVC PIPE FOR BACK OF SIDEWALK, 4"	LF		1/1/2010	
0430963 2	PVC PIPE FOR BACK OF SIDEWALK, NON STANDARD DIAMETER	LF	T	1/1/2010	

430-970- PROTECTIVE PIPE BEDDING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Pipe bedding is incidental to cost of pipe for most applications. If a special bedding is needed, contact the State Drainage Office prior to requesting this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	sumdrd.dgn: Summary of Drainage Structures
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **430-970-** **PROTECTIVE PIPE BEDDING** **LF**

Notes Contact the State Drainage Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

430-98A-BCC MITERED END SECTION

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Includes all pipe, grates (when required), fasteners, reinforcement, connectors, anchors, concrete, sealants, jackets, coupling bands, and all work required to install the mitered end section. Show shape and size on the contract plans. Refer to Index 273 for valid sizes. Use equivalent round pipe size for payment.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES: Sidedrain & MES, w/o offset

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 205, 272, 273

Specifications Section 430

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-98A-BCC** **MITERED END SECTION** **EA**

A = Application
2 (Cross Drain)
4 (Side Drain)

B = Shape
1 (Optional Round)
6 (Optional Other – Elliptical/Arch)

CC = Standard Round or Equivalent Other Shape Pipe Sizes
Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")

31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")
46 (78")
47 (84")
48 (90")
49 (96")
50 (102")
51 (108")
52 (120")
53 (132")
54 (144")
55 (156")
56 (168")
57 (180")
Refer to Standard Index 205

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430982121	MITERED END SECTION, OPTIONAL ROUND, 12" CD	EA		1/1/2010	
0430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	EA		1/1/2010	
0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA		1/1/2010	
0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA		1/1/2010	
0430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA		1/1/2010	
0430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA		1/1/2010	
0430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	EA		1/1/2010	
0430982141	MITERED END SECTION, OPTIONAL ROUND, 48" CD	EA		1/1/2010	
0430982142	MITERED END SECTION, OPTIONAL ROUND, 54" CD	EA		1/1/2010	
0430982143	MITERED END SECTION, OPTIONAL ROUND, 60" CD	EA		1/1/2010	
0430982144	MITERED END SECTION, OPTIONAL ROUND, 66" CD	EA		1/1/2010	
0430982145	MITERED END SECTION, OPTIONAL ROUND, 72" CD	EA		1/1/2010	
0430982147	MITERED END SECTION, OPTIONAL ROUND, 84" CD	EA		1/1/2010	

0430982623	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 15" CD	EA	1/1/2010
0430982625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	1/1/2010
0430982629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	1/1/2010
0430982633	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 30" CD	EA	1/1/2010
0430982638	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 36" CD	EA	1/1/2010
0430982640	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 42" CD	EA	1/1/2010
0430982641	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 48" CD	EA	1/1/2010
0430982642	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 54" CD	EA	1/1/2010
0430982643	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 60" CD	EA	1/1/2010
0430982645	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 72" CD	EA	1/1/2010
0430984121	MITERED END SECTION, OPTIONAL ROUND, 12" SD	EA	1/1/2010
0430984123	MITERED END SECTION, OPTIONAL ROUND, 15" SD	EA	1/1/2010
0430984125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	1/1/2010
0430984129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	1/1/2010
0430984133	MITERED END SECTION , OPTIONAL ROUND, 30" SD	EA	1/1/2010
0430984138	MITERED END SECTION , OPTIONAL ROUND, 36" SD	EA	1/1/2010
0430984140	MITERED END SECTION , OPTIONAL ROUND, 42" SD	EA	1/1/2010
0430984141	MITERED END SECTION , OPTIONAL ROUND, 48" SD	EA	1/1/2010
0430984142	MITERED END SECTION , OPTIONAL ROUND, 54" SD	EA	1/1/2010
0430984143	MITERED END SECTION , OPTIONAL ROUND, 60" SD	EA	1/1/2010
0430984144	MITERED END SECTION (OPTIONAL ROUND)(66" SD)	EA	1/1/2010
0430984147	MITERED END SECTION, OPTIONAL ROUND, 84" SD	EA	1/1/2010
0430984623	MITERED END SECTION, OPTIONAL OTHER - ELLIP/ARCH, 15" SD	EA	1/1/2010
0430984625	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 18" SD	EA	1/1/2010
0430984629	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 24" SD	EA	1/1/2010

0430984633	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 30" SD	EA	1/1/2010
0430984638	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 36" SD	EA	1/1/2010
0430984640	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 42" SD	EA	1/1/2010
0430984641	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 48" SD	EA	1/1/2010
0430984642	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 54" SD	EA	1/1/2010
0430984643	MITERED END SECTION, OPTIONAL SHAPE /ELLIP/ARCH, 60" SIDE DRAIN	EA	1/1/2010
0430984644	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 66" SD	EA	1/1/2010
0430984645	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 72" SD	EA	1/1/2010

430-990- MITERED END SECTION, REPLACE GRATE

Unit EA **Accuracy** Each **PlanQuantity?**

Notes

Details For replacement of grate on an existing MES. DO NOT USE this item for a new MES.

Installation should be in accordance with design standards, unless otherwise shown in the plans.

Payment is per MES, for replacement of complete set (all bars).

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **430-990-** **MITERED END SECTION, REPLACE GRATE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0430990	MITERED END SECT, REPLACE GRATE	EA		1/1/2010	

431- 1- A PIPE LINER, OPTIONAL MATERIAL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This item is used to rehabilitate an existing pipe by forming a lining on the host pipe's interior, thereby allowing a debilitated pipe to regain strength and performance capabilities. Box to Box liners are preferred.

Contact the State Drainage Office if sectional liners are considered (see item 908-431-A)

Design with manufacturer's lengths in mind for all practical applications. Refer to specifications for current industry practices.

Per Specifications, "The plans will indicate the location of the pipe to be rehabilitated, the material composition and the alternate liner types that may be used to rehabilitate the pipe, and the method of liner installation."

Related Items **Required** **Recommended** 121- 70, 430- 94-AA

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 431

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **431- 1- A** **PIPE LINER, OPTIONAL MATERIAL** **LF**

A= Size Range
1 (0=-24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" and greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0431 1 1	PIPE LINER, OPTIONAL MATERIAL, 0-24"	LF	T	1/1/2010	
0431 1 2	PIPE LINER, OPTIONAL MATERIAL, 25-36"	LF	T	1/1/2010	
0431 1 3	PIPE LINER, OPTIONAL MATERIAL, 37-48"	LF	T	1/1/2010	
0431 1 4	PIPE LINER, OPTIONAL MATERIAL, 49 - 60"	LF	T	1/1/2010	
0431 1 5	PIPE LINER, OPTIONAL MATERIAL, 61" AND GREATER	LF	T	1/1/2010	

432- 3- A CHEMICAL GROUT REPAIR - PIPE, NON-TEST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **432- 3- A** **CHEMICAL GROUT REPAIR - PIPE, NON-TEST** **EA**

A =
1 (15")
2 (18")
3 (21")
4 (24")
5 (30")
6 (36")
7 (42")
8 (48")
9 (54")
10 (66")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0432 3 1	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 15"	EA	T	1/1/2010	
0432 3 2	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 18"	EA	T	1/1/2010	
0432 3 3	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 21"	EA	T	1/1/2010	
0432 3 4	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 24"	EA	T	1/1/2010	
0432 3 5	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 30"	EA	T	1/1/2010	
0432 3 6	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 36"	EA	T	1/1/2010	
0432 3 7	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 42"	EA	T	1/1/2010	
0432 3 8	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 48"	EA	T	1/1/2010	
0432 3 9	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 54"	EA	T	1/1/2010	
0432 3 10	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 66"	EA	T	1/1/2010	

433- 1- CHEMICAL GROUT REPAIR- MANHOLE/INLET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **433- 1-** **CHEMICAL GROUT REPAIR- MANHOLE/INLET** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0433 1	CHEMICAL GROUT REPAIR, MANHOLE / INLET	EA	T	1/1/2010	

435- 1- AA STRUCTURAL PLATE PIPE CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Coordinate the use of this item with the State Drainage Office prior to requesting pay items.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications Section 435

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **435- 1- AA** **STRUCTURAL PLATE PIPE CULVERT** **LF**

AA= Blank for drainage applications
99 (Animal Crossing)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0435 1	STRUCTURAL PLATE PIPE CULVERT	LF		1/1/2010	
0435 1 99	STRUCTURAL PLATE PIPE CULVERT SPECIAL- ANIMAL CROSSING	LF		1/1/2010	

436- 1- A TRENCH DRAIN

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Use in accordance with Index 206. Various alternatives are available on the standard.

Special should only be used if you have a significant design change. Plan Details and/or Tech Spec will be required.

Minor changes to the standard may be noted in the plans, and used with the "standard" pay item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 206

Specifications Section 436

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **436- 1- A** **TRENCH DRAIN** **LF**

A = size
1 (Standard)
2 (Special) see details above

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0436 1 1	TRENCH DRAIN, STANDARD	LF		1/1/2010	
0436 1 2	TRENCH DRAIN, SPECIAL	LF	T	1/1/2010	

440- 1- AA UNDERDRAIN

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Item based on the size of the smooth interior product. Price per length shall include cost of pipe, fittings, aggregate, sock, filter fabric, cleanouts, and concrete aprons.

Related Items **Required** **Recommended**

Forms **Design** SBUNDR; SBUnderdrain: Summary of Underdrain

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards Index No. 286

Specifications Section 440

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 1- AA** **UNDERDRAIN** **LF**

AA =
10 (Type I)
20 (Type II)
30 (Type III)
50 (Type V)
60 (Type Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0440 1 10	UNDERDRAIN, TYPE I	LF		1/1/2010	
0440 1 20	UNDERDRAIN, TYPE II	LF		1/1/2010	
0440 1 30	UNDERDRAIN, TYPE III	LF		1/1/2010	
0440 1 50	UNDERDRAIN, TYPE V	LF		1/1/2010	
0440 1 60	UNDERDRAIN, TYPE SPECIAL	LF	T	1/1/2010	

440- 70- UNDERDRAIN INSPECTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBUNDR; SBUnderdrain: Summary of Underdrain

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 245, 286

Specifications Section 440

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 70-** **UNDERDRAIN INSPECTION BOX** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0440 70	UNDERDRAIN INSPECTION BOX	EA		1/1/2010	

440- 73- A UNDERDRAIN OUTLET PIPE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Use in accordance with Standard Index. Price per length includes trench excavation, pipe, fittings, concrete aprons, hardware cloth for concrete aprons, stubbing into drainage structures, backfill in place, and removal of excess materials.

Related Items **Required** **Recommended**

Forms **Design** SBUNDR; SBUnderdrain: Summary of Underdrain

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 286

Specifications Section 440

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 73- A** **UNDERDRAIN OUTLET PIPE** **LF**

A = Size
1 (4")
2 (6")
3 (8")
4 (10")
5 (12") Note: 12" is non-standard; will require plan details and/or Tech Spec

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0440 73 1	UNDERDRAIN OUTLET PIPE, 4"	LF		1/1/2010	
0440 73 2	UNDERDRAIN OUTLET PIPE, 6"	LF		1/1/2010	
0440 73 3	UNDERDRAIN OUTLET PIPE, 8"	LF		1/1/2010	
0440 73 4	UNDERDRAIN OUTLET PIPE, 10"	LF		1/1/2010	
0440 73 5	UNDERDRAIN OUTLET PIPE, 12"	LF	T	1/1/2010	

442- 70- VERTICAL DRAINAGE WICKS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **442- 70-** **VERTICAL DRAINAGE WICKS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0442 70	VERTICAL DRAINAGE WICKS	LF	T	1/1/2010	

443- 70- AA FRENCH DRAIN

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This item includes furnishing and placing pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric, and also includes trenching, backfilling, sheeting and, when necessary, pavement restoration.

When using elliptical pipe, payment will be according to the equivalent round size, as noted in the plans.

Related Items **Required** **Recommended**

Forms **Design** sumdrd.dgn: Summary of Drainage Structures

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 285

Specifications Section 443

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **443- 70- AA** **FRENCH DRAIN** **LF**

AA = Size. Additional sizes per index 285
3 (18")
4 (24")
5 (30")
6 (36")
7 (42")
8 (48")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0443 70 3	FRENCH DRAIN, 18"	LF		1/1/2010	
0443 70 4	FRENCH DRAIN, 24"	LF		1/1/2010	
0443 70 5	FRENCH DRAIN, 30"	LF		1/1/2010	
0443 70 6	FRENCH DRAIN, 36"	LF		1/1/2010	
0443 70 7	FRENCH DRAIN, 42"	LF		1/1/2010	
0443 70 8	FRENCH DRAIN, 48"	LF		1/1/2010	

443- 71- A BALLAST ROCK

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Do not use with 443-70 French Drain item; refer to Index 285 for details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards Index No. 285

Specifications Section 443

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **443- 71- A** **BALLAST ROCK** **CY**

A =
1 (French Drain Aggregate)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0443 71 1	BALLAST ROCK, FRENCH DRAIN AGGREGATE	CY		1/1/2010	

444- 70- AA DEEP WELL- OPEN HOLE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This item is to be used in accordance with Index 288 for drainage applications.

For irrigation wells, see pay item 730-83.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 288

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **444- 70- AA** **DEEP WELL- OPEN HOLE** **LF**

AA = Well Diameter
11 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0444 70 11	DEEP WELL- OPEN HOLE, 24"	LF	T	1/1/2010	

444- 71- AA DEEP WELL CASING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This item is to be used in accordance with Index 288 for drainage applications.

For irrigation wells, see pay item 730-83.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 288

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **444- 71- AA** **DEEP WELL CASING** **LF**

AA = Well Diameter
11 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0444 71 11	DEEP WELL CASING, 24"	LF	T	1/1/2010	

444- 72- AA DEEP WELL CLEANING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This item is to be used in accordance with Index 288 for drainage applications.

For irrigation wells, see pay item 730-83.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 288

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **444- 72- AA** **DEEP WELL CLEANING** **LF**

AA = Well Diameter
11 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0444 72 11	DEEP WELL CLEANING, 24"	LF	T	1/1/2010	

446- 1- A EDGEDRAIN DRAINCRETE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Price per length includes removal of existing shoulder pavement, trench excavation, disposal of excess materials, filter fabric, draincrete, edgedrain pipe and fittings. Refer to Design Standard for payment details, based on new/rehab construction.

Related Items **Required** **Recommended**

Forms **Design** SBEDDR; SBEdgedrains: Summary of Edgedrain

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 286, 287

Specifications Section 446

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **446- 1- A** **EDGEDRAIN DRAINCRETE** **LF**

A= pipe size
1 (Standard) per Index 287 is 4"

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0446 1 1	EDGEDRAIN DRAINCRETE, STANDARD	LF		1/1/2010	

446- 71- A EDGEDRAIN OUTLET PIPE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Includes removal of existing shoulder pavement, trench excavation, pipe and fitting, concrete apron, sod, stubbing into existing inlets and paved ditches, etc. Refer to Design Standard for details.

Related Items **Required** **Recommended**

Forms **Design** SBEDDR; SBEdgedrains: Summary of Edgedrain

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 287

Specifications Section 446

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **446- 71- A** **EDGEDRAIN OUTLET PIPE** **LF**

A= pipe size
1 (4")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0446 71 1	EDGEDRAIN OUTLET PIPE, 4"	LF		1/1/2010	

448- 73- PUMPING STATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **448- 73-** **PUMPING STATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0448 73	PUMPING STATION	LS	T	1/1/2010	

450- 1-AAA PRESTRESSED BEAMS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for prestressed beams for bridge construction.
Summarize quantities by location per span.
AAA= 201, 202, 203 are typically used for bridge widening projects. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.
AAA=278, 378 are typically used for post-tensioned beams. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.

Non-Standard beam types: Coordinate standards (as applicable / if available), with details shown in the plans.

Florida-I Beams: See pay item 450- 2-. Pay items will be effective with implementation of Design Standards. For earlier implementation, contact the State Structures Design Office.

Full design details will be required in the plans.

Other beam types: Pay Items for other beam types may be expanded upon request. Minor "non-standard" changes may be paid under the applicable beam type, with applicable details in the plans or specifications.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	Index No. 20110 series: 20110, 20120, 20130, 20140, 20150, 20160, 20172, 20178, 20199, 20310, 20320.
	Specifications	Section 450
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 450- 1-AAA PRESTRESSED BEAMS LF

AAA =
1 (Type II)
2 (Type III)
3 (Type IV)
4 (Type V)
5 (Type VI)
7 (Special) see pay item details
54 (Bulb T, 54") *non-standard
63 (Bulb T, 63") *non-standard
72 (Bulb T, 72")
78 (Bulb T, 78")
118 (Florida Double Tee, Fdt18) *non-standard
124 (Florida Double Tee, Fdt24) *non-standard
130 (Florida Double Tee, Fdt30) *non-standard
201 (Type II Modified) *non-standard
202 (Type III Modified) *non-standard
203 (Type IV Modified) *non-standard
250 (Inverted T, 20”)
278 (Bulb T, 78", Modified, w/post tensioning) *non-standard
378 (Bulb T, 78", Haunched, Modified, w/post tensioning) *non-standard

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 1 1	PRESTRESSED BEAMS, TYPE II	LF		1/1/2010	
0450 1 2	PRESTRESSED BEAMS, TYPE III	LF		1/1/2010	
0450 1 3	PRESTRESSED BEAMS, TYPE IV	LF		1/1/2010	
0450 1 4	PRESTRESSED BEAMS, TYPE V	LF		1/1/2010	
0450 1 5	PRESTRESSED BEAMS, TYPE VI	LF		1/1/2010	
0450 1 7	PREST BEAMS, SPECIAL	LF		1/1/2010	
0450 1 72	PRESTRESSED BEAMS, BULB T - 72"	LF		1/1/2010	
0450 1 78	PRESTRESSED BEAMS, BULB T - 78"	LF		1/1/2010	
0450 1201	PREST BEAMS, TYPE II, MODIFIED	LF		1/1/2010	
0450 1202	PREST BEAMS, TYPE III, MODIFIED	LF		1/1/2010	
0450 1203	PRESTRESSED BEAMS, TYPE IV MODIFIED	LF		1/1/2010	
0450 1250	PRESTRESSED BEAMS, INVERTED T 20"	LF		1/1/2010	

450- 2-AAA PRESTRESSED BEAMS: FLORIDA-I BEAM

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes **June 2009: Refer to Temporary Design Bulletin on Structures Office Web Page for implementation instructions.**

Details Intended for prestressed beams for bridge construction.
Summarize quantities by location per span.

Non-Standard beam types: Coordinate standards (as applicable / if available), with details shown in the plans.

Florida-I Beams: Pay items will be effective with implementation of Design Standards. For earlier implementation, contact the State Structures Design Office. Full design details will be required in the plans.

Other beam types: Pay Items for other beam types may be expanded upon request. Minor "non-standard" changes may be paid under the applicable beam type, with applicable details in the plans or specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Florida-I Series: 20010, 20036, 20045, 20054, 20063, 20072, 20078, 20199
Index No. 20110 series: 20110, 20120, 20130, 20140, 20150, 20160, 20172, 20178, 20199, , and 20310, 20320.
Bearing Pads & Plates for Florida-I: Index No. 20510, 20511

Specifications Section 450

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 2-AAA** **PRESTRESSED BEAMS: FLORIDA-I BEAM** **LF**

AAA = Size
36 (36")
45 (45")
54 (54")
63 (63")
72 (72")
78 (78")
84 (84")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 2 36	PREST BEAMS: FLORIDA-I BEAM 36"	LF		1/1/2010	
0450 2 45	PREST BEAMS: FLORIDA-I BEAM 45"	LF		1/1/2010	
0450 2 54	PREST BEAMS: FLORIDA-I BEAM 54"	LF		1/1/2010	
0450 2 63	PREST BEAMS: FLORIDA-I BEAM 63"	LF		1/1/2010	
0450 2 72	PREST BEAMS: FLORIDA-I BEAM 72"	LF		1/1/2010	
0450 2 78	PREST BEAMS: FLORIDA-I BEAM 78"	LF		1/1/2010	
0450 2 84	PREST BEAMS: FLORIDA-I BEAM 84"	LF		1/1/2010	
0450 2 96	PREST BEAMS: FLORIDA-I BEAM 96"	LF		1/1/2010	

450- 3- AB PRESTRESSED SLAB UNITS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for non-post-tensioned prestressed bridge deck panels w/ concrete wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 4.4, Normally requires SHOP DRAWINGS

Standards Index 20350 series: 20350, 20353, 20354, 20355, 20363, 20364, 20365,

20399

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 3- AB** **PRESTRESSED SLAB UNITS** **LF**

A = Width
1 (48")
2 (60")
3 (96")
4 (72")
5 (36") valid through 12/2008
6 (54")
7 (57")
9 (Variable 30-47") Per design standard index, B=1 or 5 only

B = Thickness
1 (12")
2 (16")
3 (10")
4 (18")
5 (15")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 3 11	PRESTRESSED SLAB UNITS, WIDTH 48", THICKNESS 12"	LF		1/1/2010	
0450 3 15	PRESTRESSED SLAB UNITS, WIDTH 48", THICKNESS 15"	LF		1/1/2010	
0450 3 21	PRESTRESSED SLAB UNITS, WIDTH 60", THICKNESS 12"	LF		1/1/2010	
0450 3 22	PRESTRESSED SLAB UNITS, WIDTH 60", THICKNESS 16"	LF		1/1/2010	
0450 3 41	PRESTRESSED SLAB UNITS, WIDTH 72", THICKNESS 12"	LF		1/1/2010	
0450 3 62	PRESTRESSED SLAB UNITS, WIDTH 54", THICKNESS 16"	LF		1/1/2010	
0450 3 72	PRESTRESSED SLAB UNITS, WIDTH 57", THICKNESS 16"	LF		1/1/2010	
0450 3 91	PRESTRESSED SLAB UNITS, VARIABLE WIDTH 30-47", THICKNESS 12"	LF		1/1/2010	
0450 3 95	PRESTRESSED SLAB UNITS, VARIABLE WIDTH 30-47", THICKNESS 15"	LF		1/1/2010	

450- 4-AAA **PRESTRESSED BEAM (FLORIDA U-BEAM)**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for prestressed Florida U-beams for bridge construction.

Summarize quantities by location per span.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 20210 series: 20210, 20484, 20254, 20263, 20272, 20299

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 4-AAA** **PRESTRESSED BEAM (FLORIDA U-BEAM)** **LF**

AAA =
1 (48”)
2 (54”)
3 (63”)
4 (72”)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 4 1	PRESTRESSED BEAM- FL U-BEAM, 48"	LF		1/1/2010	
0450 4 2	PRESTRESSED BEAM- FL U-BEAM, 54"	LF		1/1/2010	
0450 4 3	PRESTRESSED BEAM- FL U-BEAM, 63"	LF		1/1/2010	
0450 4 4	PRESTRESSED BEAM- FL U-BEAM,72"	LF		1/1/2010	

450- 5- PRESTRESSED PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?**

Notes **New Item effective 1-1-10. Coordinate the use of this item with the State Structures Design Office**

Details This item was opened for a test section, monitored by District 5 and the State Structures Design Office. DO NOT USE THIS ITEM WITHOUT COORDINATING WITH THE STATE STRUCTURES DESIGN OFFICE.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **450- 5-** **PRESTRESSED PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 5	PRESTRESSED PAVEMENT	SY		1/1/2010	

450- 82- BEAM REPAIR

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items.
See also item 450-83.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 82-** **BEAM REPAIR** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 82	BEAMS REPAIR	LF	T	1/1/2010	

450- 83- A BEAM REPAIR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items.
See also item 450-82.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 83- A** **BEAM REPAIR** **EA**

A =
1 (Strand Splices)
2 (Bar Splices)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 83 1	BEAM REPAIR, STRAND SPLICES	EA	T	1/1/2010	
0450 83 2	BEAM REPAIR, BAR SPLICES	EA	T	1/1/2010	

450- 88- AA PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** no

Notes

Details Intended for post-tensioned prestressed bridge deck panels w/ concrete or asphalt wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 4.4, Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 88- AA** **PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED** **SF**

AA =
12 (12")
14 (14")
15 (15")
16 (16")
18 (18")
19 (19")
20 (20")
21 (21")
24 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0450 88 15	PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED, 15"	SF	T	1/1/2010	
0450 88 18	PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED, 18"	SF	T	1/1/2010	

451- 70- AA PRESTRESSED SOIL ANCHOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For permanent applications only. Do not pay for separately when prestressed soil anchors are part of a temporary steel sheet pile wall system. Intended for payment of prestressed soil anchor, proof and creep test. See specification 451-12. Show anchor spacing and force/anchor.
Show locations in plans w/ quantity block.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 451

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **451- 70- AA** **PRESTRESSED SOIL ANCHOR** **EA**

AA =
Blank (F&I, With Standard Tests)
1 (Performance Test)
2 (Creep Test)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0451 70	PREST SOIL ANCHORS	EA		1/1/2010	
0451 70 1	PRESTRESSED SOIL ANCHOR, PERFORMANCE TEST	EA		1/1/2010	
0451 70 2	PRESTRESSED SOIL ANCHOR, CREEP TEST	EA		1/1/2010	

452- 70- PRECAST SEGMENT PRODUCTION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended to cover for segmental casting yard set-up costs. Required on all Precast Segmental Bridge Projects.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 452

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **452- 70-** **PRECAST SEGMENT PRODUCTION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0452 70	PRECAST SEGMENT PRODUCTION	LS		1/1/2010	

455- 2- A TREATED TIMBER PILING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Designer must verify material requirements with State Materials Lab prior to requesting item.

Intended for temporary detour bridge applications, or special use structures. Summarize quantities by location per bent. The quantity to be paid for shall be the length, in feet (meters), of piling actually remaining in the completed structure below the elevation of cut-off shown in the plans or designated by the Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications Section 455

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 2- A** **TREATED TIMBER PILING** **LF**

A = Treatment
Blank (Single Treatment)
1 (Dual Treatment)

Notes Designer must verify material requirements with State Materials Lab prior to requesting item.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 2	TREATED TIMBER PILING	LF	T	1/1/2010	

455- 14- AA CONCRETE SHEET PILING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended for concrete sheet pile walls. Show locations in plans. Include quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Normally requires SHOP DRAWINGS

Standards Index 20400 series: 20400, 20410, 20412, 40230, 20440

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 14- AA** **CONCRETE SHEET PILING** **LF**

A =
1 (7" X 30")

2 (8" X 30")
3 (10" X 30")
4 (12" X 30")
5 (Special)
6 (6" X 30")
7 (5" X 24")
8 (6" X 48")
9 (6" X 36")
10 (9" X 48")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 14 2	CONCRETE SHEET PILING, 8"X30"	LF		1/1/2010	
0455 14 3	CONCRETE SHEET PILING, 10"X30"	LF		1/1/2010	
0455 14 4	CONCRETE SHEET PILING, 12"X30"	LF		1/1/2010	
0455 14 5	CONCRETE SHEET PILING,SPECIAL	LF		1/1/2010	

455- 18- PROTECTION OF EXISTING STRUCTURES

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

The item is to protect adjacent buildings, RR tracks, existing bridge structures, etc that may be impacted by vibration affects of the new construction.

Survey existing older bridges and monitor vibration/settlement of existing structures located within a few hundred feet of the following construction operations: pile driving, drilled shaft excavations, blasting, vibro-compaction, steel sheet pile installations, well point dewatering systems, etc. Of special concern are old bridge structures on timber piles, existing retaining walls, existing building on shallow foundations, etc.

IN THE PLANS, list the adjacent structures not covered under 455-1.1 that require surveying and vibration monitoring, or structures that require special attention during construction.

The item is usually loaded as a structures items due to pile driving operations. However, blasting, sheet pile wall installations and super-pave vibratory compaction operations can cause vibrations sufficient to create damage to adjacent structures also.

NOTE: Protection of structures that are under construction (existing portion of a bridge during widening) is incidental to the bridge costs. No separate pay item is needed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Soils and Foundations Handbook 7.1.6, 9.2.4

Standards

Specifications Section 455

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 18-** **PROTECTION OF EXISTING STRUCTURES** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 18	PROTECTION OF EXISTING STRUCTURES	LS	T	1/1/2010	

455- 34- AA PRESTRESSED CONCRETE PILING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Effective January 2009- refer to specification changes for dynamic load tests.**

Details For projects let January 2009 and later: Intended to cover cost and installation of the square prestressed concrete piling.
Design quantity computed as the total anticipated length of pile WITHOUT ALLOWANCES for cutoffs, splices, dynamic load tests, or preforming. Construction Final Quantity will be adjusted based on allowances, per the specifications.
Related item 455-143, except for fender system piling, & piling for soldier pile walls.
Per specification, "No payment will be made for dynamic load tests used to evaluate the integrity of a pre-planned epoxy-bonded dowel splice. Include all costs associated with dynamically testing production piles with epoxy-bonded dowel splices in the Pay Item 455-34."

For projects let through December 2008: Intended to cover cost and installation of the square prestressed concrete piling.
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming. Related items 455-143 & 455-137, except for fender system piling, & piling for soldier pile walls

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-08: Piling Tabulation and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Final tabulation of quantities must be recorded on proper form in computation book by location.

References **PPM Chapter**

Other SDG's 3.5

Standards Index 20600 series: 20600, 20601, 20602, 20612, 20614, 20618, 20620,

20624, 20630, 20631, 20654, 20660

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 34- AA** **PRESTRESSED CONCRETE PILING** **LF**

A =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Sq.)
8 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 34 1	PRESTRESSED CONCRETE PILING, 12" SQ.	LF		1/1/2010	
0455 34 2	PRESTRESSED CONCRETE PILING, 14" SQ.	LF		1/1/2010	
0455 34 3	PRESTRESSED CONCRETE PILING, 18" SQ	LF		1/1/2010	
0455 34 4	PRESTRESSED CONCRETE PILING, 20" SQ	LF		1/1/2010	
0455 34 5	PRESTRESSED CONCRETE PILING, 24" SQ	LF		1/1/2010	
0455 34 6	PRESTRESSED CONCRETE PILING, 30" SQ	LF		1/1/2010	
0455 34 7	PRESTRESSED CONCRETE PILING, 36" SQ	LF		1/1/2010	
0455 34 8	CONCRETE PILING PRESTRESSED, SPECIAL	LF		1/1/2010	

455- 35- AA PILING, STEEL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended to cover cost and installation of the steel “H” or pipe piling.
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet
COMP 700-050-08: Piling Tabulation and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Final tabulation of quantities must be recorded on proper form in computation book by location.

References **PPM Chapter**

Other SDG’s 3.5

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 35- AA** **PILING, STEEL** **LF**

AA =
1 (Hp 8 X 36)
2 (Hp 10 X 36)
3 (Hp 10 X 42)
4 (Hp 12 X 53)
5 (Hp 14 X 73)
6 (Hp 14 X 89)
7 (Hp 14 X102)
8 (Hp 14 X 117)
9 (Special)
20 (18" Dia Pipe)
21 (20" Diameter Pipe)
22 (24" Diameter Pipe)
23 (30" Diameter Pipe)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 35 4	STEEL PILING, HP 12 X 53	LF		1/1/2010	
0455 35 5	STEEL PILING, HP 14 X 73	LF		1/1/2010	
0455 35 6	STEEL PILING, HP 14 X 89	LF		1/1/2010	
0455 35 7	STEEL PILING, HP 14 X 102	LF		1/1/2010	
0455 35 8	STEEL PILING, HP 14 X 117	LF		1/1/2010	
0455 35 9	STEEL PILING, SPECIAL	LF	T	1/1/2010	
0455 35 21	STEEL PILING, 20" DIA. PIPE	LF		1/1/2010	
0455 35 22	STEEL PILING, 24" DIA. PIPE	LF		1/1/2010	
0455 35 23	STEEL PILING, 30" DIA. PIPE	LF		1/1/2010	

455- 37- A FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details to be used with Fender System, Section 471. Refer to Design Standards and Specifications for additional information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-08: Piling Tabulation and Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications Section 455
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 37- A** **FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES** **LF**

A= Size
1 (13" Diameter) to be opened only with Structures Design Approval
2 (16" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 37 2	FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILE, 16" D	LF		1/1/2010	

455- 76- WRAP PILE CLUSTERS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Repair/Rehab Projects only.
Intended on fender repair projects.
Show locations in plans w/ quantity block.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 76-** **WRAP PILE CLUSTERS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 76	WRAP PILE CLUSTERS	EA		1/1/2010	

455- 81-ABB CATHODIC PROTECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for Pile or Pier installation of Zinc or Titanium anode, installed as routine maintenance on H-piles and steel sheet piles used for seawalls. Show locations in plans with quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work paid under item 400-60-A.

DO NOT USE this item with 400-142 (Cathodic Protection for mass concrete or structural components) or 457 items (integral pile jackets).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400-60 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 81-ABB** **CATHODIC PROTECTION** **EA**

A = Operation
1 (Furnish & Install)

BB =

01 (Pile, Zinc Anode Assembly)
02 (Pier, Zinc Anode Assembly)
04 (Pile, Titanium Anode Assembly)
05 (Pier, Titanium Anode Assembly)
06 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 81101	CATHODIC PROTECTION, F&I, PILE, ZINC ANODE ASSEMBLY	EA	T	1/1/2010	
0455 81102	CATHODIC PROTECTION, F&I, PIER, ZINC ANODE ASSEMBLY	EA	T	1/1/2010	
0455 81104	CATHODIC PROTECTION, F&I, PILE, TITANIUM ANODE PROTECTION	EA		1/1/2010	
0455 81105	CATHODIC PROTECTION, F&I, PIER, TITANIUM ANODE ASSEMBLY	EA		1/1/2010	

455- 87- STEEL ANCHOR BAR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for wall anchor tiebacks to connect wall to dead men, or anchor piles. Not for prestressed soil anchor applications.
Show locations in plans w/ quantity block. Design for sacrificial thickness and coat with coal tar epoxy, if required

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455- 87-** **STEEL ANCHOR BAR** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 87	ANCHOR BAR, STEEL	EA		1/1/2010	

455- 88- AA **DRILLED SHAFT**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details PAY ITEM VALID FOR BRIDGE STRUCTURES ONLY. Drilled Shaft foundations for High Mast Lighting, Overhead Signs, and Mast Arms are included in the price of the item being installed; no separate payment for these items.

Intended to pay for the cost of concrete and steel, temporary casing, all labor, materials, equipment and incidentals necessary to complete the drilled shaft. Length is measured from top-of-shaft elevation to the design tip elevation shown in the plans. Pay Item 455-122-XAA is required with this item. Pay Item 455-122 covers the cost of the shaft excavation. Clearly specify in plans CSL testing requirements as required. Cost of Shaft Inspection Device included in cost of drilled shaft, 455- 88-XAA. CSL tubes included under 455- 88-XAA. CSL testing paid for under Item 455-142.

Related Items **Required** 455-122 (2455-122) **Recommended** 455-142 when CSL testing is required

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 88- AA** **DRILLED SHAFT** **LF**

AA = Diameter
1 (24" Diameter)
2 (30" Diameter)
3 (36" Diameter)
4 (42" Diameter)
5 (48" Diameter)
6 (60" Diameter)
7 (72" Diameter)
8 (54" Diameter)
9 (66" Diameter)
15 (84" Diameter)
19 (90" Diameter)
20 (108" Diameter)
21 (96" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455 88 1	DRILLED SHAFT, 24" DIA	LF		1/1/2010	
0455 88 2	DRILLED SHAFT, 30" DIA	LF		1/1/2010	
0455 88 3	DRILLED SHAFT, 36" DIA	LF		1/1/2010	
0455 88 4	DRILLED SHAFT, 42" DIA	LF		1/1/2010	
0455 88 5	DRILLED SHAFT, 48" DIA	LF		1/1/2010	
0455 88 6	DRILLED SHAFT, 60" DIA	LF		1/1/2010	
0455 88 7	DRILLED SHAFT, 72" DIA	LF		1/1/2010	
0455 88 8	DRILLED SHAFT, 54" DIA	LF		1/1/2010	
0455 88 9	DRILLED SHAFT, 66" DIA	LF		1/1/2010	
0455 88 15	DRILLED SHAFT, 84" DIA	LF		1/1/2010	
0455 88 19	DRILLED SHAFT, 90" DIA	LF		1/1/2010	
0455 88 20	DRILLED SHAFT, 108 " DIA	LF		1/1/2010	
0455 88 21	DRILLED SHAFT, 96" DIA	LF		1/1/2010	

455- 93- THERMAL INTEGRITY TESTING FOR DRILLED SHAFTS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Monitor: Larry Jones, State Geotechnical Engineer**

Details Contact the monitor prior to use. Project specific approval required; do not use without approval of the State Geotechnical Engineer. Specifications are under development by the monitor.

Estimate the quantity based on the number of drilled shafts to be tested.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

Status

Struct. **455- 93-** **THERMAL INTEGRITY TESTING FOR DRILLED SHAFTS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-101- A LOAD TEST- OSTERBERG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended to load test drilled shafts using Osterberg Cells. Show location and test load of o-cells test shafts. Show number and depth of o-cells for each test shaft.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-129-XXA **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 10.3.3

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-101- A** **LOAD TEST- OSTERBERG** **EA**

A =
1 (Less Than 5 Cells)
2 (5 Or More Cells)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455101 1	TEST LOAD, OSTERBERG CELL, LESS THAN FIVE CELLS	EA	T	1/1/2010	
0455101 2	TEST LOAD, OSTERBERG CELL, 5 OR MORE CELLS	EA	T	1/1/2010	

455-103-ABB LOAD TEST- STATNAMIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for Statnamic load testing of piles or drilled shafts. Show location and test load of test shafts or piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-129- A **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 10.3.1

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-103-ABB** **LOAD TEST- STATNAMIC** **EA**

A = Type
1 (Compression)
2 (Lateral)

BB = Test Capacity
01 (100 Tons)
02 (200 Tons)
03 (300 Tons)
04 (400 Tons)
05 (500 Tons)
06 (600 Tons)
07 (700 Tons)
08 (800 Tons)
09 (900 Tons)
10 (1000 Tons)
11 (1100 Tons)
12 (1200 Tons)
13 (1300 Tons)
14 (1400 Tons)
15 (1500 Tons)
16 (1600 Tons)
30 (3000 Tons)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455103110	LOAD TEST - STATNAMIC, COMPRESSION, 1000TN	EA	T	1/1/2010	

455-107- AA DRILLED SHAFT CASING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended on drilled shaft projects when plans require permanent casing method be used. Permanent casing is typically not paid for separately for portions of shaft in waterway unless permanent casing method is required for shaft below the mud line. Show locations and depths in drilled shaft data table.

Related Items **Required** 455-122- AA, 455-88- AA **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-107- AA** **DRILLED SHAFT CASING** **LF**

AA =
1 (24" Diameter)
2 (30" Diameter)
3 (36" Diameter)
4 (42" Diameter)
5 (48" Diameter)
6 (60" Diameter)
7 (72" Diameter)
8 (54" Diameter)
9 (66" Diameter)
18 (84" Diameter)
19 (90" Diameter)
20 (108" Diameter)
21 (96" Dia)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455107 1	DRILLED SHAFT CASING, 24" DIAMETER	LF		1/1/2010	
0455107 2	DRILLED SHAFT CASING, 30" DIAMETER	LF		1/1/2010	
0455107 3	DRILLED SHAFT CASING, 36" DIAMETER	LF		1/1/2010	
0455107 4	DRILLED SHAFT CASING, 42" DIAMETER	LF		1/1/2010	
0455107 5	DRILLED SHAFT CASING, 48" DIAMETER	LF		1/1/2010	
0455107 6	DRILLED SHAFT CASING, 60" DIAMETER	LF		1/1/2010	
0455107 7	DRILLED SHAFT CASING, 72" DIAMETER	LF		1/1/2010	
0455107 8	DRILLED SHAFT CASING, 54" DIAMETER	LF		1/1/2010	
0455107 9	DRILLED SHAFT CASING, 66" DIAMETER	LF		1/1/2010	
0455107 18	DRILLED SHAFT CASING, 84" DIAMETER	LF		1/1/2010	
0455107 19	DRILLED SHAFT CASING, 90" DIAMETER	LF		1/1/2010	
0455107 20	DRILLED SHAFT CASING, 108" DIAMETER	LF		1/1/2010	
0455107 21	DRILLED SHAFT CASING, 96" DIAMETER	LF		1/1/2010	

455-111- CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Intended for payment of pilot holes or cores for drilled shaft projects to determine the quality of the material below the tip.
Pilot holes are taken at shaft locations prior to shaft excavation.
Cores are taken below the tip of an excavated shaft.
Pilot holes or cores when deemed necessary, are typically taken 3 to 5 shaft diameters below the shaft's planned tip elevation. Use 3 shaft diameters unless otherwise noted in the plans.
Show location in the plans. Clarify whether pilot holes or cores are to be taken. Base quantity on the anticipated pilot hole and/or core length needed. Include pay item note.

Establish quantities as follows: Cores: measured from the bottom of shaft elevation to the bottom of the core (3 to 5 shaft diameters below tip); Pilot holes: measured from the ground elevation to the bottom elevation of the pilot hole (3 to 5 shaft diameters below tip).

Related Items **Required** 455- 88- AA, 455-122- AA **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-111-** **CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455111	CORE-PILOT HOLE, DRILLED SHAFT EXCAVATION	LF		1/1/2010	

455-112- A PILE- AUGER GROUTED

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended for payment of auger cast piles to support miscellaneous structures. Do not use with Pay Item 534- 72-1AA. Cost of sound barrier foundations included in the cost of sound barrier wall. Not for use to support bridge structures.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Manual 8.2.4, SDG's 3.1

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-112- A** **PILE- AUGER GROUTED** **LF**

A =
1 (16" Diameter)
2 (14" Diameter)
3 (24" Diameter)
4 (30" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455112 3	PILE AUGER GROUTED, 24" DIA	LF		1/1/2010	

455-119-ABB LOAD TEST- STATIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for static axial or lateral load testing of piles or drilled shafts. Not used for

Osterberg- Cell or Statnamic tests. Show location and test load in plans.

Related Items **Required** 455-129- A **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 10.3.1, Normally requires SHOP DRAWINGS

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-119-ABB** **LOAD TEST- STATIC** **EA**

A = Type Load
1 (Compression)
2 (Tension)
3 (Lateral)

BB = Amount Of Load
01 (0 - 50 Tons)
02 (51 - 100 Tons)
03 (101 - 600 Tons)
04 (601 -1200 Tons)
05 (1201-1800 Tons)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455119103	LOAD TEST-STATIC, COMPRESSION,101-600 TONS	EA		1/1/2010	
0455119201	LOAD TEST-STATIC, TENSION, 0-50 TONS	EA		1/1/2010	
0455119301	LOAD TEST-STATIC, LATERAL, 0-50 TONS	EA		1/1/2010	

455-120- A PILE POINT PROTECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for steel “H” or pipe piling and steel sheet piling projects when borings show soils that may be difficult to penetrate. Show locations in plans w/ quantity block

Related Items **Required** 455- 35, 455-133 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-120- A** **PILE POINT PROTECTION** **EA**

A =
1 (HP 14" X 89)
2 (20" Sq.)
3 (24" Sq.)
4 (HP 14 X 117)
5 (HP 14" X 73")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455120 1	PILE POINT PROTECTION, HP 14" X 89"	EA		1/1/2010	
0455120 2	PILE POINT PROTECTION, 20" SQ	EA		1/1/2010	
0455120 3	PILE POINT PROTECTION, 24"	EA		1/1/2010	
0455120 4	PILE POINT PROTECTION, HP 14" X 117"	EA		1/1/2010	
0455120 5	PILE POINT PROTECTION, HP 14" X 73"	EA		1/1/2010	

455-122- AA UNCLASSIFIED SHAFT EXCAVATION

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Intended for the excavation of the drilled shafts. Pay Item 455-88-XAA is required with this item. Quantity is the depth of excavated hole from ground elevation to tip of shaft.

Related Items **Required** 455- 88- AA **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications Section 455

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-122- AA** **UNCLASSIFIED SHAFT EXCAVATION** **LF**

AA =
1 (24" Diameter.)
2 (30" Diameter.)
3 (36" Diameter.)
4 (42" Diameter.)
5 (48" Diameter.)
6 (60" Diameter.)
7 (72" Diameter.)
8 (54" Diameter.)
9 (66" Diameter.)
19 (90" Diameter.)
20 (108" Diameter.)
21 (96" Diameter.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455122 3	EXCAVATION UNCLASSIFIED SHAFT, 36" DIA	LF		1/1/2010	
0455122 4	EXCAVATION UNCLASSIFIED SHAFT, 42" DIA	LF		1/1/2010	
0455122 5	EXCAVATION UNCLASSIFIED SHAFT, 48" DIA	LF		1/1/2010	
0455122 6	EXCAVATION UNCLASSIFIED SHAFT, 60" DIA	LF		1/1/2010	
0455122 7	EXCAVATION UNCLASSIFIED SHAFT, 72" DIA	LF		1/1/2010	
0455122 8	EXCAVATION UNCLASSIFIED SHAFT, 54" DIA	LF		1/1/2010	
0455122 15	EXCAVATION UNCLASSIFIED SHAFT, 84" DIA	LF		1/1/2010	
0455122 19	EXCAVATION UNCLASSIFIED SHAFT, 90" DIA	LF		1/1/2010	
0455122 21	EXCAVATION UNCLASSIFIED SHAFT, 96" DIA	LF		1/1/2010	

455-129- A INSTRUMENTATION AND DATA COLLECTION (STRUCTURES FOUNDATIONS)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended for use with all static, statnamic and Osterberg Cell load tests.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-101, 455-103, or 455-119 **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	Soils and Foundations Handbook 10.3
	Standards	
	Specifications	Section 455
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-129- A** **INSTRUMENTATION AND DATA COLLECTION (STRUCTURES FOUNDATIONS)** **LS/LS**

A =

2 (Drilled Shaft Foundation)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455129 2	INSTRUMENTATION & DATA COLLECT, DRILL SHAFT FOUND	LS		1/1/2010	

455-133-AAA SHEET PILING

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Selected items are monitored by the State Geotechnical Engineer. Contact Larry Jones, State Geotechnical Engineer in the State Structures Design Office, prior to including the monitored items on any project.

Details

STEEL PERMANENT: Complete designs and details must be provided in the plans including the Steel sheeting section, begin and end stations, top and bottom pile elevations. Refer to Section 455 for current specifications.

STEEL TEMPORARY: This item should be utilized for temporary sheet pile installations that are installed at “critical locations.” Critical walls” are walls necessary to maintain the safety of the traveling public or structural integrity of nearby structures, roadways and utilities during construction. Refer to Section 455 for current specifications.
For temporary critical walls requiring soil anchors, dead men etc., provide full details in plans (design of wale, soil anchor spacing and load, dead men anchor, number of proof test and creep test required, etc.).

COMPOSITE POLYURETHANE & GLASS FIBER: Low height sheet pile for shoreline protection. Polyurethane resin/glass fiber matrix pultruded material. Experimental use only. The use of this item must be approved by the State Geotechnical Engineer.

VINYL: The Interlocking Vinyl Sheet Piling Wall consists of Vinyl sheet piling manufactured from extruded, UV stabilized Polyvinyl Chloride (PVC). The use of this item must be

approved by the State Geotechnical Engineer.

Complete design and details must be provided in the plans including the section modulus, begin and end stations, top and bottom pile elevations. See 455-12.6.2 for additional information.

****
TRNS*PORT Category: When walls are used for construction of a structure and shown in the structures plans, load the item in the corresponding structures category. When walls are used for other applications (roadway or utilities), load the item in the corresponding category.

MEASUREMENT: The area to be paid for will be measured from top of pile elevation to bottom of pile elevation and longitudinally from beginning to end of wall, as shown in the plans.

PAYMENT: PLAN QUANTITY will be the basis of payment to the contractor. No separate payment will be made for the cost of the anchor system for anchored

Related Items **Required** **Recommended** 455-120

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 3.5, Normally requires SHOP DRAWINGS

Standards

Specifications Section 455

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455-133-AAA** **SHEET PILING** **SF**

AAA = Material & Operation
for Concrete- use Item 455-14-
2 (Steel, Temporary- Critical)
3 (Steel, Furnish & Install Permanent)
4 (Composite Polyurethane & glass fiber) *
5 (Vinyl, Furnish & Install Permanent) *

*Must be approved by State Geotechnical Engineer for each project; Tech Specs required.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-142- **CROSSHOLE SONIC LOGGING / DRILLED SHAFT TESTING**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for integrity testing of drilled shafts. CSL tubes are required to be placed in all drilled shafts, but only a portion of shafts will actually be tested. Determine number of shafts to be CSL tested; identify shafts in the plans.

This pay item should NOT be included for miscellaneous structures with drilled shafts smaller than 60 inches in diameter.

If the Engineer suspects defects in any drilled shaft installation, additional CSL testing may be required. If the installation is found to be defective, no additional payment will be made for testing or required corrections. If the installation is found to meet specifications, then payment for CSL testing will be made as unforeseeable work.

Related Items **Required** 455-88, 455-122-XAA **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundation Handbook 10.4.2, 10.4.3

Standards

Specifications Section 455

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-142-** **CROSSHOLE SONIC LOGGING / DRILLED SHAFT TESTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455142	CROSSHOLE SONIC LOGGING	EA	T	1/1/2010	

455-143- AA TEST PILES- PRESTRESSED CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For Projects let January 2009 and later: Intended to cover cost and installation of the prestressed concrete test piling. Includes the payment for dynamic load test on test piles. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For projects let through December 2008: Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Intended to cover cost and installation of the prestressed concrete piling. Quantity

computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-137, 455-34 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundation Handbook 10.1, 10.2

Standards

Specifications Section 455

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-143- AA** **TEST PILES- PRESTRESSED CONCRETE** **LF**

AA =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Dia)
8 (Special)* open only with approval from State Structures Design Office

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455143 1	TEST PILES-PRESTRESSED CONCRETE,12" SQ	LF		1/1/2010	
0455143 2	TEST PILES-PRESTRESSED CONCRETE,14" SQ	LF		1/1/2010	
0455143 3	TEST PILES-PRESTRESSED CONCRETE,18" SQ	LF		1/1/2010	
0455143 4	TEST PILES-PRESTRESSED CONCRETE,20" SQ	LF		1/1/2010	
0455143 5	TEST PILES-PRESTRESSED CONCRETE,24" SQ	LF		1/1/2010	
0455143 6	TEST PILES-PRESTRESSED CONCRETE,30" SQ	LF		1/1/2010	
0455143 7	TEST PILES-PRESTRESSED CONCRETE,36" SQ	LF		1/1/2010	

455-144- AA **TEST PILES- STEEL**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Intended to cover cost and installation of the steel test piling. PDA paid for separately under item 455-137.
Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles]
Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-137, 455-34 **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundation Handbook 10.1, 10.2

Standards

Specifications Section 455

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-144- AA** **TEST PILES- STEEL** **LF**

AA =
1 (Hp 8 X 36)
2 (Hp 10 X 36)
3 (Hp 10 X 42)
4 (Hp 12 X 53)
5 (Hp 14 X 73)
6 (Hp 14 X 89)
7 (Hp 14 X 102)
8 (Hp 14 X 117)
9 (Special)*
20 (18" Dia Pipe)
21 (20" Dia Pipe)

22 (24" Dia Pipe)
23 (30" Dia Pipe)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455144 1	TEST PILES - STEEL, HP 8 x 36	LF		1/1/2010	
0455144 2	TEST PILES - STEEL, HP 10 x 36	LF		1/1/2010	
0455144 3	TEST PILES - STEEL, HP 10 x 42	LF		1/1/2010	
0455144 4	TEST PILES - STEEL, HP 12 x 53	LF		1/1/2010	
0455144 5	TEST PILES (STEEL)(HP 14 X 73)	LF		1/1/2010	
0455144 6	TEST PILES - STEEL, HP 14 x 89	LF		1/1/2010	
0455144 8	TEST PILES - STEEL, HP 14 x 117	LF		1/1/2010	
0455144 9	TEST PILES - STEEL, SPECIAL	LF		1/1/2010	
0455144 20	TEST PILES - STEEL, 18" DIA PIPE	LF		1/1/2010	
0455144 21	TEST PILES - STEEL, 20" DIA PIPE	LF		1/1/2010	
0455144 22	TEST PILES - STEEL, 24" DIA PIPE	LF		1/1/2010	
0455144 23	TEST PILES - STEEL, 30" DIA PIPE	LF		1/1/2010	

455-146- EMBEDDED DATA COLLECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details to be used with all prestressed concrete test piles. Estimate a quantity of 1 per test pile. Each collector system will include gauges at the top and tip, as well as antenna and incidental equipment for installation in each pile, as shown in the standard.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 20602

Specifications

Special Provision available

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-146-** **EMBEDDED DATA COLLECTOR** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0455146	EMBEDDED DATA COLLECTOR	EA		1/1/2010	

457- 1- AB STANDARD INTEGRAL PILE JACKET

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to repair concrete pile damage or to protect sheet piles. Project details (plans or specs) must include jacket lengths. Grout material(s) should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **457- 1- AB** **STANDARD INTEGRAL PILE JACKET** **LF**

A = Type
1 (non-structural)
2 (Structural)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0457 1 11	STANDARD INTEGRAL PILE JACKET, NON-STRUCTURAL, UP TO 16"	LF	T	1/1/2010	
0457 1 12	STANDARD INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1 to 30.0"	LF	T	1/1/2010	
0457 1 21	STANDARD INTEGRAL PILE JACKET, STRUCTURAL, UP TO 16"	LF	T	1/1/2010	
0457 1 22	STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0"	LF	T	1/1/2010	

457- 2- AB CATHODIC PROTECTION INTEGRAL PILE JACKET

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to repair concrete pile corrosion damage. Project details (plans or specs) must include jacket lengths, anode type and configuration, as well as connection methods and materials for cathodic protection. Grout material(s) should be specified in the plans or specifications.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work will be paid under 400-60, when required for impressed current jackets. For galvanic jackets, include a note in the plans or specifications indicating that electrical work is incidental to the cost of the integral Cathodic protection pile jacket.

See items 400-142 (structure) and 455-81 (pier or pile) for other Cathodic Protection work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 60- **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **457- 2- AB** **CATHODIC PROTECTION INTEGRAL PILE JACKET** **LF**

A = Type
1 (non-structural)
2 (Structural)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0457 2 11	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, UP TO 16"	LF	T	1/1/2010	
0457 2 12	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1-30."	LF	T	1/1/2010	
0457 2 13	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, 30.1" AND LARGER	LF	T	1/1/2010	
0457 2 21	CATHODIC PROTECTION INTEGRAL PILE JACKET, STRUCTURAL, UP TO 16"	LF	T	1/1/2010	
0457 2 22	CATHODIC PROTECTION INTEGRAL PILE JACKET, STRUCTURAL, 16.1-30."	LF	T	1/1/2010	
0457 2 23	CATHODIC PROTECTION INTEGRAL PILE JACKET, STRUCTURAL, PILE SIZE 30.1" AND LARGER	LF	T	1/1/2010	

458- 1- AB BRIDGE DECK EXPANSION JOINT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Refer to Design Standards and Specifications for selection and use of these joints.
Poured joints- Type A, B, or C silicone is included in the cost of the concrete item; no separate payment.
Poured Joints with Backer Rod- Type D silicone is paid under this item.
Strip Seal Joint System- Elastomeric material, as indicated in specs & standards, is paid under this item.
Note: Tech Specs are required for selected types of joints/materials, as shown in the pay item structure.

For Bridge Approach Expansion Joints near bridge approach slabs, refer to 370 items.
For Concrete Joint repairs in Structures, refer to 400 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 21110, 21100

Specifications Section 458

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **458- 1- AB** **BRIDGE DECK EXPANSION JOINT** **LF**

A= Operation
1 (New Construction- F&I)
2 (Rehabilitation- Clean, Seal, Replace)

B= Type
1 (Poured Joint with Backer Rod) Type D silicone
2 (Strip Seal Joint System)
3 (Modular) Note: Tech Spec Required, including material and installation specs
4 (Finger Joint) Note: Tech Spec Required, including material and installation specs
5 (Compression Elastomeric) Note: For Rehab only. Tech Spec Required, including material and installation specs
6 (Other) Note: For Rehab only. Tech Spec Required, including material and installation specs

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0458 1 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	LF		1/1/2010	
0458 1 12	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I STRIP SEAL	LF		1/1/2010	
0458 1 13	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I MODULAR	LF	T	1/1/2010	
0458 1 14	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I FINGER JOINT	LF	T	1/1/2010	
0458 1 21	BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD	LF		1/1/2010	
0458 1 22	BRIDGE DECK EXPANSION JOINT, REHABILITATION, STRIP SEAL	LF		1/1/2010	
0458 1 23	BRIDGE DECK EXPANSION JOINT, REHABILITATION, MODULAR	LF	T	1/1/2010	
0458 1 24	BRIDGE DECK EXPANSION JOINT, REHABILITATION, FINGER JOINT	LF	T	1/1/2010	
0458 1 25	BRIDGE DECK EXPANSION JOINT, REHABILITATION, COMPRESSION ELASTOMERIC	LF	T	1/1/2010	
0458 1 26	BRIDGE DECK EXPANSION JOINT, REHABILITATION, OTHER	LF	T	1/1/2010	

459- 71- PILES, POLYETHYLENE SHEETING

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Intended on piling or drilled shaft projects to wrap portion of end bent pile or shaft within the fill height to reduce down-drag. Add note on Foundation Layout Sheet.
Pay quantity is the pile area wrapped, NOT the quantity of material applied. For each pile, record the perimeter and the height to be wrapped. Payment includes 2 layers, lubricant, and overlap, as required by specification.
Bitumen Coating paid separately.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 8.3.3

Standards

Specifications Section 459

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **459- 71-** **PILES, POLYETHYLENE SHEETING** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0459 71	PILES, POLYETHYLENE SHEETING	SY		1/1/2010	

460- 1- AA STRUCTURAL STEEL- REHAB

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Do not use for new steel structures. This item will be used on all rehabilitation work only. Show steel quantities in quantity blocks on plans. Pay for painting of structural steel separately. Conduct lead based paint survey. Add general note to alert Contractor of existing lead based paint.

Related Items **Required** **Recommended** 560- 1

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 460

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 1- AA** **STRUCTURAL STEEL- REHAB** **LB**

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
4 (Expansion Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
7 (Approach Spans)
11 (Screws, Bolts And Washer Assemblies)
12 (Flanking Spans)
13 (Bolts, Nuts, Washers And Plates)
15 (Miscellaneous)
16 (Movable Span)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 1 1	STRUCT STEEL- REHAB, CARBON	LB		1/1/2010	
0460 1 2	STRUCT STEEL, LOW ALLOY	LB		1/1/2010	
0460 1 3	STRUCT STEEL - REHABILITATION, SHOE ASSEMBLIES	LB		1/1/2010	
0460 1 5	STRUCT STEEL - REHABILITATION, BASCULE LEAVES	LB		1/1/2010	
0460 1 11	STRUCTURAL STEEL REHAB- SCREWS,BOLTS & WASHER ASSEMBLIES	LB		1/1/2010	
0460 1 13	STRUCTURAL STEEL REHAB- BOLTS, NUTS, WASHERS & PLATES	LB		1/1/2010	
0460 1 15	STRUCTURAL STEEL - REHABILITATION, MISCELLANEOUS	LB		1/1/2010	

460- 2- AA STRUCTURAL STEEL- NEW/WIDENING

Unit LS/LB; LS/KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Intended for new construction of steel structures and bridge widenings. When painting is

specified, cost of painting is incidental to this item.
WEATHERING item used when uncoated weathering steel is specified.
CARBON item used for Grades 36 and higher including weathering steel when painted.
LOW ALLOY item used for Grade 50 steel.
BASCULE LEAVES item used for all grades of steel in bascule leaf except steel used for decking, and steel counterweight blocks. When flanking span remains within the limits of bascule pier, pay under BASCULE PIERS. If not, include under CARBON or LOW ALLOY. Cost of F-shaped or vertical shape steel traffic railing barrier located on bascule leaf included in steel quantity under BASCULE PIERS. Leaf Centering Device Assembly included in steel quantity under BASCULE LEAVES.
BASCULE PIERS item used for all grades of steel in bascule pier except for steel for decking. Cost of F-shaped or vertical shape steel traffic railing barrier located within limits of bascule pier included in steel quantity under BASCULE PIERS.
Calculate weight of steel for estimating purposes only. Due not tabulate steel quantities in the plans. On steel box girder projects add note to include cost of all access hatches, and screen doors in cost on structural steel.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS
	Standards	
	Specifications	Section 460
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 460- 2- AA STRUCTURAL STEEL- NEW/WIDENING LS/LB

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
15 (Miscellaneous)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 2 1	STRUCT STEEL, CARBON	LS		1/1/2010	
0460 2 2	STRUCT STEEL, LOW ALLOY	LS		1/1/2010	
0460 2 5	STRUCT STEEL, BASCULE LEAVES	LS		1/1/2010	
0460 2 6	STRUCT STEEL, BASCULE PIERS	LS		1/1/2010	
0460 2 15	STRUCT STEEL, MISCELLANEOUS	LS		1/1/2010	
0460 2 20	STRUCT STEEL - NEW/WIDENING, WEATHERING	LS		1/1/2010	

460- 6- LADDERS & PLATFORMS

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Intended for both steel and aluminum ladders and platforms when necessary for personnel/ maintenance access. Clearly define location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 460

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 6-** **LADDERS & PLATFORMS** **LB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 6	LADDERS & PLATFORMS	LB		1/1/2010	

460- 10- A STAINLESS STEEL (For Keys Bridges and Port of Miami)

Unit EA **Accuracy** Each **PlanQuantity?**

Notes

Details Project Specific Items

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
References	**Construction**	
	PPM Chapter	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 10- A** **STAINLESS STEEL (For Keys Bridges and Port of Miami)** **EA**

A= Project Specific Items
Valid for Keys Bridges and Port Of Miami ONLY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 10 1	STAINLESS STEEL, VERMIN GUARDS AT EXPANSION JOINTS, KEYS BRIDGES	EA		1/1/2010	
0460 10 2	STAINLESS STEEL, PERSONNEL ACCESS MANHOLE, BOTTOM SLAB, APPROX 3'x3' GRATE-BAR TYPE, KEYS BRIDGES	EA		1/1/2010	
0460 10 3	STAINLESS STEEL, UTILITY ACCESS OPENING, BOTTOM SLAB, APPROX 5'x14', GRATE-BAR TYPE, KEYS BRIDGES	EA		1/1/2010	
0460 10 4	STAINLESS STEEL, VERMIN GUARDS AT EXPANSION JOINTS, PORT OF MIAMI BRIDGES	EA		1/1/2010	
0460 10 5	STAINLESS STEEL, PERSONNEL ACCESS MANHOLE, BOTTOM SLAB, APPROX 3'x3' GRATE-BAR TYPE, PORT OF MIAMI BRIDGES	EA		1/1/2010	
0460 10 6	SPECIAL SECURITY LOCKABLE ACCESS MANHOLE DEVICE, DECK SLAB, PORT OF MIAMI BRIDGE	EA		1/1/2010	

460- 13- A STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **Experimental Item. Requires State Structures Design Office Approval / FHWA**

Details Must be coordinated with State Structures Design Office.
Consists of Furnishing and Installing Sandwich Plate System, including wearing surface, bridge deck, and supporting stringer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 460
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 13- A** **STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM** **SY**

A=
1 (Deck and Stringer)
2 (Deck)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

460- 70- A ALUMINUM BULLET RAILINGS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Consists of furnishing and installing bullet railing on top of traffic railing barriers and parapets to protect pedestrians or bicycles. Note details on Indexes 423, 820, 821, and 822 For other aluminum railings, refer to Index Series 860 and 870, and pay items 515-1-xxa and 515-2-xxa.

Related Items	**Required**	521- 6- A when Index 820 Pedestrian Bicycle railing is used **Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	

Standards Index No. 423, 820, 821, 822

Specifications Section 460

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 70- A** **ALUMINUM BULLET RAILINGS** **LF**

A =
1 (Single Rail)
2 (Double Rail)
3 (Triple Rail)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 70 1	ALUMINUM BULLET RAILINGS, SINGLE RAIL	LF		1/1/2010	
0460 70 2	ALUMINUM BULLET RAILINGS, DOUBLE RAIL	LF		1/1/2010	
0460 70 3	ALUMINUM BULLET RAILINGS, TRIPLE RAIL	LF		1/1/2010	

460- 71- A METAL TRAFFIC RAILING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Consists of furnishing and installing metal traffic barriers, for new construction or Barrier Retrofit.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 6.7

Standards Index No. 470, 471, 472, 473, 474, 475, and 476

Specifications Section 460

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 71- A** **METAL TRAFFIC RAILING** **LF**

A =
1 (Thrie Beam Retrofit)
2 (Steel Post And Rail) Non-standard; custom design may be required.

3 (Steel Post and Rail-Retaining Wall System Maintenance)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 71 1	METAL TRAFFIC RAILING,THRIE BEAM RETROFIT	LF		1/1/2010	
0460 71 2	METAL TRAFFIC RAILING,STEEL POST AND RAIL	LF		1/1/2010	

460- 81- A RIVET / HIGH STRENGTH BOLT REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Rehabilitation projects only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 460

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 81- A** **RIVET / HIGH STRENGTH BOLT REPLACEMENT** **EA**

A =
Blank (Standard)
1 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 81	RIVETS - HIGH STRENGTH BOLTS, REPLACEMENT	EA	T	1/1/2010	
0460 81 1	RIVETS - HIGH STRENGTH BOLT REPLACEMENT, SPECIAL	EA	T	1/1/2010	

460- 95- STRUCTURAL STEEL REPAIR

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Intended on rehabilitation projects for in-place heat straightening. Quantity based on weight of steel components to be repaired. Show locations in the plans w/ pay item note to address all work items required.

Related Items **Required** 460- 1-XAA **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 460

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 95-** **STRUCTURAL STEEL REPAIR** **LB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 95	STRUCTURAL STEEL REPAIR	LB	T	1/1/2010	

460- 98- A PIPE HANGER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details to be used ONLY for non-drainage system applications such as structure utility attachments. When deck inserts are required for utility attachments by others, do not include this item. Deck inserts are included in the cost of the superstructure concrete. Show location spacing w/ quantity block in plans.
Note: Pipe hangers for bridge drainage system paid for under 506-2.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Documentation

Construction Refer to Comp Book

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications Section 460

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 98- A** **PIPE HANGER** **EA**

A =
1 (Carbon)
2 (Stainless)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460 98 1	PIPE HANGER, CARBON	EA	T	1/1/2010	
0460 98 2	PIPE HANGER, STAINLESS	EA	T	1/1/2010	

460-112- ANCHOR BOLT REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For rehabilitation jobs only. Show location with quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Documentation

Construction Refer to Comp Book

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications Section 460

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460-112-** **ANCHOR BOLT REPLACEMENT** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0460112	ANCHOR BOLT REPLACEMENT	EA	T	1/1/2010	

461-113- AB MULTI ROTATIONAL BEARING ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5, Normally requires SHOP DRAWINGS

Standards

Specifications Section 461

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **461-113- AB** **MULTI ROTATIONAL BEARING ASSEMBLY** **EA**

A = Operation
1 (Furnish & Install)

B =
1 (1 - 250 Kips)
2 (251 - 500 Kips)
3 (501 - 750 Kips)
4 (751 - 1000 Kips)
5 (1001 - 1250 Kips)
6 (1251 - 1500 Kips)
7 (1501 - 1750 Kips)
8 (1751 - 2000 Kips)
9 (> = 2001 Kips)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0461113 12	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 251-500 KIPS	EA		1/1/2010	
0461113 13	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 501- 750KIPS	EA		1/1/2010	
0461113 14	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 751-1000KIPS	EA		1/1/2010	
0461113 15	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1000-1250 KIPS	EA		1/1/2010	
0461113 16	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1251-1500 KIPS	EA		1/1/2010	
0461113 17	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1501-1750 KIPS	EA		1/1/2010	
0461113 18	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1751-2000 KIPS	EA		1/1/2010	
0461113 19	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, >= 2001KIPS	EA		1/1/2010	

461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5, Normally requires SHOP DRAWINGS

Standards

Specifications Section 461

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **461-114- AB** **MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION** **EA**

A = Operation
1 (Furnish & Install)

B =
1 (1 - 250 Kips)
2 (251 - 500 Kips)
3 (501 - 750 Kips)
4 (751 - 1000 Kips)

5 (1001 - 1250 Kips)
6 (1251 - 1500 Kips)
7 (1501 - 1750 Kips)
8 (1751 - 2000 Kips)
9 (> = 2001 Kips)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0461114 11	MULTIROTATIONAL BEARING ASSEMBLY EXPANSION,F&I, 1- 250KIPS	EA		1/1/2010	
0461114 12	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 251- 500KIPS	EA		1/1/2010	
0461114 13	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 501- 750KIPS	EA		1/1/2010	
0461114 14	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 751- 1000KIPS	EA		1/1/2010	
0461114 15	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, 1000-1250KIPS	EA		1/1/2010	
0461114 16	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, 1251-1500KIPS	EA		1/1/2010	
0461114 17	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I,1501-1750KIP	EA		1/1/2010	
0461114 18	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I,1751-2000KIP	EA		1/1/2010	
0461114 19	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, >=2001KIPS	EA		1/1/2010	

462- 2- AA POST TENSIONING TENDONS

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 462

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **462- 2- AA** **POST TENSIONING TENDONS** **LB**

AA =
11 (Superstructure Strand)
12 (Superstructure Bar)
13 (Substructure Strand)
14 (Substructure Bar)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0462 2 11	POST TENSIONING TENDONS, SUPERSTRUCTURE STRAND	LB		1/1/2010	
0462 2 12	POST TENSIONING TENDONS, SUPERSTRUCTURE BAR	LB		1/1/2010	
0462 2 13	POST TENSIONING TENDONS, SUBSTRUCTURE STRAND	LB		1/1/2010	
0462 2 14	POST TENSIONING TENDONS, SUBSTRUCTURE BAR	LB		1/1/2010	

462- 3- ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for rehabilitation projects intended to strengthen span with the installation of additional post-tensioning. Show location in plans. Include a schedule of post tensioning tendons w/ quantity block in plans. Include a pay item notes as necessary to cover the work activity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 4.5

Standards Index 21801, 21802, and 21803

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status **Inactive Structure**

Struct. **462- 3-** **ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

462- 20- A	POST TENSIONING REPAIR		
Unit EA; LF; CF	**Accuracy** Each; Linear Foot; Cubic Foot	**PlanQuantity?** no	

Notes

Details

NOT FOR USE ON NEW CONSTRUCTION. Details to be included in Tech Specs.
Tendon Inspection: Do not include repairs under this item, except for repair of inspection holes.
Anchorage Inspection: Do not include void repairs or pour backs under this item.
Tendon Repair Set-up: to be used every time a void is detected and is to cover the cost of installing injection and outlet points, preparing to fill void, and sealing of these areas after completion. Shop drawings may be required.
Replace Anchorage Protect Sys: Includes replacement of the tendon anchorage protect system
Repair External Ducts: Not for use to repair areas damaged while repairing voids.
Tendon Replace: Remove & replace complete tendons, including anchorage components, placement & stressing new tendon, grouting, inspection, and protection system.
Grout Tendon Voids: Includes installation & material, detailed in Tech Spec
Install Grout Ports: includes drilling and installing grout ports suitable for connection to grouting equipment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct.	**462- 20- A**	**POST TENSIONING REPAIR**	**EA; LF; CF**

A=
1 (Tendon Inspection) LF
2 (Anchorage Inspection) EA
3 (Tendon Repair Set-up) EA

4 (Replace Anchorage Protection System) EA
5 (Repair External Tendon Ducts) LF
6 (Replace Tendon) LF
7 (Vacuum Grout Tendon Voids) CF
9 (Install Grout Ports) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0462 20 1	POST TENSIONING REPAIR, TENDON INSPECTION	LF	T	1/1/2010	
0462 20 2	POST TENSIONING REPAIR, ANCHORAGE INSPECTION	EA	T	1/1/2010	
0462 20 4	POST TENSIONING REPAIR, REPLACE ANCHORAGE PROTECTION SYSTEM	EA	T	1/1/2010	
0462 20 5	POST TENSIONING REPAIR, REPAIR EXTERNAL TENDON DUCTS	LF	T	1/1/2010	
0462 20 6	POST TENSIONING, REPLACE TENDON	LF	T	1/1/2010	
0462 20 7	POST TENSIONING REPAIR, VACUUM GROUT TENDON VOIDS	CF	T	1/1/2010	
0462 20 9	POST TENSIONING REPAIR, INSTALL GROUT PORTS	EA	T	1/1/2010	

465- 1- MOVABLE BRIDGE- MECHANICAL EQUIPMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

For new bridge construction only. Intended for furnishing and installing complete mechanical system for bascule bridge. Includes all mechanical equipment and appurtenances (speed reducer and gear train, trunnion assemblies, span locks, couplings, live load shoes, flat & curved tracks, plain journal bearings, spherical bearings, supports and brackets, hydraulic systems, and all other equipment/service) required for a complete mechanical system on new bascule bridges. Clearly define scope of work in plans and specifications.
Contact State Structures Design for boiler plate Specification 465 to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 1-** **MOVABLE BRIDGE- MECHANICAL EQUIPMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 1	MOVABLE BRIDGE - MECHANICAL EQUIPMENT	LS	T	1/1/2010	

465- 2-ABB MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** yes

Notes

Details Intended for rehabilitation projects for bascule bridge machinery and castings. For new structures, the complete machinery system is included under 465- 1, LS. Contact C.O. Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
EACH and ASSEMBLY ITEMS: Location must be summarized on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 465- 2-ABB MOVABLE BRIDGE MACHINERY AND CASTINGS-REHAB Mixed

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Adjust /Modify)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership
8 (Field Machining)

BB= Equipment
01 (Speed Reducer And Gear Train) LS/LS
04 (Trunnion Assembly) EA
05 (Span Locks) AS
07 (Couplings) EA
08 (Live Load Shoes) LS/LS
10 (Flat Rack, Curved Rack, Flat Track) EA
11 (Hopkins Frame) EA
21 (Plain Journal Bearing) EA
22 (Spherical Bearing) EA
52 (Hydraulic Cylinder) EA
53 (Hydraulic Motor) EA
54 (Hydraulic Power Pack) EA
55 (Temporary Hydraulic System) EA
60 (Other Machinery Components) LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 2101	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I SPEED REDUCER & GEAR TRAIN	LS	T	1/1/2010	
0465 2105	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I SPAN LOCKS	AS	T	1/1/2010	
0465 2107	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I COUPLINGS	EA	T	1/1/2010	
0465 2108	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I LIVE LOAD SHOES	LS	T	1/1/2010	
0465 2110	MOVABLE BRIDGE MACHINERY & CASTING- BR REHABILITATION, F&I FLAT RACK, CURVED TRACK, FLAT TRACK	EA	T	1/1/2010	
0465 2111	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I HOPKINS FRAME	EA	T	1/1/2010	
0465 2154	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I HYDRAULIC POWER PACK	EA	T	1/1/2010	
0465 2155	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I TEMPORARY HYDRAULIC SYSTEM	EA	T	1/1/2010	

0465 2160	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, FURNISH & INSTALL OTHER MACHINERY COMPONENTS	LS	T	1/1/2010
0465 2401	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION, SPEED REDUCER & GEAR TRAIN	LS	T	1/1/2010
0465 2404	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION, TRUNION ASSEMBLY	EA	T	1/1/2010
0465 2405	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION,SPAN LOCKS	AS	T	1/1/2010
0465 2408	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION,LIVE LOAD SHOES	LS	T	1/1/2010
0465 2411	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION, HOPKINS FRAME	EA	T	1/1/2010
0465 2452	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION,HYDRAULIC CYLINDER	EA	T	1/1/2010
0465 2453	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION, HYDRAULIC MOTOR	EA	T	1/1/2010
0465 2460	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, RECONDITION, OTHER MACHINERY COMPONENTS	LS	T	1/1/2010
0465 2511	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, ADJUST& MODIFY,HOPKINS FRAME	EA	T	1/1/2010
0465 2554	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, ADJUST& MODIFY,HYDRAULIC POWER PACK	EA	T	1/1/2010
0465 2601	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, REMOVE & DISPOSE, SPEED REDUCER & GEAR TRAIN	LS	T	1/1/2010
0465 2605	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, REMOVE & DISPOSE- CONTRACTOR OWNS, SPAN LOCKS	AS	T	1/1/2010
0465 2607	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, REMOVE & DISPOSE- CONTRACTOR OWNS, COUPLINGS	EA	T	1/1/2010
0465 2608	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, REMOVE & DISPOSE- CONTRACTOR OWNS, LIVE LOAD SHOES	LS	T	1/1/2010
0465 2610	MOVABLE BRIDGE MACHINERY & CASTING- BR REHABILITATION, REMOV & DISPOSE, FLAT RACK/ CURVED TRACK/ FLAT TRACK	EA	T	1/1/2010
0465 2611	MOVABLE BRIDGE MACHINERY & CASTING- REHABILITATION, REMOVE & DISPOSE- CONTRACTOR OWNS, HOPKINS FRAME	EA	T	1/1/2010

0465 2654	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, HYDRAULIC POWER PACK	EA	T	1/1/2010
0465 2752	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & SALVAGE,HYDRAULIC CYLINDER	EA	T	1/1/2010

465- 3- AB MOVABLE BRIDGE COUNTERWEIGHT

Unit EA; TN; MT **Accuracy** Each; Ton; Metric Ton **PlanQuantity?** no

Notes

Details

Applies for either rehabilitation or new bridge projects. Intended for work items related to bascule bridge counterweights (balance calculations, balance blocks, steel ballast, transition slabs, sump pumps, bumper blocks). Steel ballast intended for bulk steel counterweight (transition slabs, steel plates). Show location & quantity block in plans. When using "Adjust" item, Tech Spec must clearly define method of measurement: adjustment of each bridge, leaf, or after specific operations.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 3- AB** **MOVABLE BRIDGE COUNTERWEIGHT** **EA; TN**

A= Operation
1 (Furnish & Install)
5 (Adjust) EA; for A=5, B=0
9 (Clean) Valid for B=6 only

B= Item
1 (Fiberglass Pocket Cover) EA
2 (Sump Pump) EA
4 (Bumper Block) EA
6 (Pockets) EA
7 (Balance Blocks) EA

9 (Steel Ballast) TN

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 3 11	MOVABLE BRIDGE COUNTERWEITHT, F&I, FIBER GLASS POCKET COVER	EA	T	1/1/2010	
0465 3 14	MOVABLE BRIDGE COUNTERWEITHT, F&I, BUMPER BLOCK	EA	T	1/1/2010	
0465 3 16	MOVABLE BRIDGE COUNTERWEITHT, F&I, POCKETS	EA	T	1/1/2010	
0465 3 17	MOVABLE BRIDGE COUNTERWEITHT, F&I, BALANCE BLOCKS	EA	T	1/1/2010	
0465 3 19	MOVABLE BRIDGE COUNTERWEITHT, F&I, STEEL BALLAST	TN	T	1/1/2010	
0465 3 50	MOVABLE BRIDGE COUNTERWEITHT, ADJUST	EA	T	1/1/2010	
0465 3 96	MOVABLE BRIDGE COUNTERWEITHT, CLEAN, POCKETS	EA	T	1/1/2010	

465- 4- MOVABLE BRIDGE SPAN JACKING

Unit LS/EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to jack bascule span off trunnion supports. Used in conjunction with trunnion reconditioning or bearing replacement. Tech Spec should include jacking procedure, and require that procedures and calculations be completed by a Florida Licensed Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms

Design SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation

Design Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 4-** **MOVABLE BRIDGE SPAN JACKING** **LS/EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

465- 20- MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE

Unit LS/DA **Accuracy** Lump Sum (Day) **PlanQuantity?**

Notes

Details This item covers the cost of maintaining a movable bridge during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 20-** **MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE** **LS/DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 20	MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE & ROUTINE REPAIR	LS	T	1/1/2010	

465- 21- MOVABLE BRIDGE OPERATOR

Unit DA **Accuracy** Day **PlanQuantity?**

Notes

Details This item covers the cost of furnishing a bridge tender during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 21-** **MOVABLE BRIDGE OPERATOR** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 21	MOVABLE BRIDGE OPERATOR	DA	T	1/1/2010	

465- 71- A MOVABLE BRIDGE FUNCTIONAL CHECKOUT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Phase A to be used to test first-two leafs of a four leaf bascule, Phase B to be used for the Second-two leafs, and Phase C to be used for the complete bridge. Sometimes Phase C and Phase B are combined for simplicity. This item is required on all new bascule bridges and on all bascule bridge rehabilitation projects where the leaf operation, weight is being affected.
Where phasing is not required, only a single checkout (Phase C) is required.
Contact State Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for

Specification tolerances.

References **PPM Chapter**

Other SDG's 8.7.19

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 71- A** **MOVABLE BRIDGE FUNCTIONAL CHECKOUT** **LS/LS**

A = See detail for Phasing
1 (Phase A) for 1st 2 leaves
2 (Phase B) for 2nd leaves
3 (Phase C) for Complete

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0465 71 1	MOVEABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE A	LS	T	1/1/2010	
0465 71 3	MOVABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE C	LS	T	1/1/2010	

470- 1- TREATED TIMBER, STRUCTURAL

Unit MB; M3 **Accuracy** 1/10 Thou Board Measure; 1/10 Cubic Meter **PlanQuantity?** yes

Notes

Details Intended for the cost of treated structural timber. The quantity of timber to be based on the final width and thickness shown in the plans. When applicable, indicate in the plans the nominal size (2x6) and dressed dimension. Quantity is to be based on the dressed volume. For rough cut or "full sawn" sizes, the nominal size is the finished size and the basis of the quantity. Timber piles paid for under 455- 2-XXA.
The board-foot measure is the unit of volume for measuring lumber. One board-foot measure is a 12-inch long 1-inch-by-12-inch volume. MB is per thousand board-foot measure.

Example calculation:
800' - 12X6 Rough Sawn = 800x12x6/12,000= 4.8 MB
800' - 12X6 Dressed Lumber (Dressed 11 ½ " X 5 ½ ") = 800X11.5X5.5/12,000= 4.2 MB

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for

Specification tolerances.

References **PPM Chapter**

Other Structures Detailing Manual Chapter 12.

Standards

Specifications Section 470

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 470- 1- TREATED TIMBER, STRUCTURAL MB

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0470 1	TREATED TIMBER, STRUCTURAL	MB		1/1/2010	

471- 1- A FENDER SYSTEM, PLASTIC MARINE LUMBER

Unit MB; M3 **Accuracy** 1/10 Thou Board Measure; 1/10 Cubic Meter **PlanQuantity?** yes

Notes

Details to be used for wales and dimensional lumber for fender systems. Plastic piling to be paid separately under Section 455 items.

one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.
Refer to Design Standards and Specifications for additional information.

Related Items **Required** 455- 37- a **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 21900 series: 21900, 21910, 21920, 21930

Specifications Section 471

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 471- 1- A FENDER SYSTEM, PLASTIC MARINE LUMBER MB

A= Reinforcement

1 (Reinforced)
2 (non-reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0471 1 1	FENDER SYSTEM,PLASTIC MARINE LUMBER,REINFORCED	MB		1/1/2010	
0471 1 2	FENDER SYSTEM,PLASTIC MARINE LUMBER, NON-REINFORCED	MB		1/1/2010	

504- 1- AA STEEL ROADWAY FLOOR

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details Intended for steel grating for sidewalks and bridge decks usually on bascule leaves. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, no separate payment is made for fill concrete. See Section 504 for Specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 504

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **504- 1- AA** **STEEL ROADWAY FLOOR** **SF**

A =
1 (5" Open)
2 (3" Armored)
5 (5 1/2" Armored)
10 (5" Armored)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0504 1 1	ROADWAY FLOOR, STEEL, 5" OPEN	SF		1/1/2010	
0504 1 2	ROADWAY FLOOR, STEEL, 3" ARMORED	SF		1/1/2010	
0504 1 5	ROADWAY FLOOR, STEEL, 5.5" ARMORED	SF		1/1/2010	
0504 1 10	ROADWAY FLOOR, STEEL, 5" ARMORED	SF		1/1/2010	

504- 2- SIDEWALK FLOOR, STEEL - REHAB

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details Intended for rehabilitation projects when steel sidewalks gratings is required without roadway grating. Clearly identify work to be completed including area, type of rehab work, and acceptance criteria. On new bascule bridge projects, include both sidewalk and

roadway grating quantity under 504-1.

Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, include cost of the concrete fill under this pay item (add pay item note).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 504

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **504- 2-** **SIDEWALK FLOOR, STEEL - REHAB** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0504 2	SIDEWALK FLOOR, STEEL, REHABILITATION	SF	T	1/1/2010	

506- 2- BRIDGE DRAIN PIPE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for payment for drainage pipes located on bridge structure to convey water from deck inlets to ends of bridge or down to ground at pier locations. Include piping that is cast into concrete components in the quantity. Bridge drains paid separately under 506-3. Show location w/ quantity block in plans.

Coordinate Tech Spec with

Related Items **Required** 506- 3- **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for

Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 506

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 506- 2- BRIDGE DRAIN PIPE LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0506 2	BRIDGE DRAINAGE PIPE	LF		1/1/2010	

506- 3- BRIDGE DRAINS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Intended for payment for deck inlets located on bridge structure. Bridge piping paid under 506-2. Deck scuppers holes cast into bridge deck should not be paid for under this item unless they consist of a casting. Pay for deck scupper holes under superstructure concrete (add pay item note). Show location w/ quantity block in plans.

Related Items **Required** 506- 2- **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 506

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 506- 3- BRIDGE DRAINS EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0506 3	BRIDGE DRAINS	EA		1/1/2010	

506- 72- POWER CLEAN BRIDGE DOWN DRAIN

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Valid for Maintenance Use. Plans or Specifications must detail cleaning requirements including: method(s), permitted chemicals, etc.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **506- 72-** **POWER CLEAN BRIDGE DOWN DRAIN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0506 72	BRIDGE POWER CLEAN DOWN DRAIN	EA		1/1/2010	

507- 70- ALUMINUM SIDEWALK FLOOR

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details Intended for aluminum sidewalks usually on bascule leaves. Show location w/ quantities block in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **507- 70-** **ALUMINUM SIDEWALK FLOOR** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0507 70	ALUMINUM SIDEWALK FLOOR	SF	T	1/1/2010	

508- 1- A MOVABLE BRIDGE ELECTRICAL EQUIPMENT, NEW CONSTRUCTION ONLY

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

For NEW BRIDGE CONSTRUCTION ONLY. Intended for furnishing and installing complete electrical system for bascule bridge.

Includes all electrical equipment and appurtenances (wire, cables, submarine cable assembly, conduits, wiring, wiring devices, light fixtures, motors, controllers, motor control centers, panelboards, relays, control equipment, safety switches, traffic signals, all traffic gates, traffic barriers, Variable Speed Controllers, drive motors, stand-by generator and transfer switch, motor control equipment, air horns, navigation lights, limit switches, system grounding scheme, tender house amenities, and all other apparatus and accessories indicated, specified, or required) required for a complete operating electrical system on new bascule bridges. Clearly define scope of work in plans and specifications.

Contact State Structures Design for boiler plate Specification 508 to be modified as required for project specifics.

For plan detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item."

****

For movable bridges only. Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NEW- FURNISH & INSTALL: Includes complete, new, electrical system for bascule bridge. Includes all electrical equipment and appurtenances (emergency generator, submarine cable, motors, control console, brakes, programmable controller, motor control center, drive system, CCTV system, navigation lights, gates, signals, and all other equipment/service) required for a complete installation on bascule bridges.

EXISTING- ADJUST/MODIFY/REHAB: Includes all electrical system equipment, components, and/or work not paid for separately under other items. May include furnishing/wiring/installation of new or rehab electrical components.

REMOVAL: Clearly identify which items are to be stockpiled or disposed. For stockpiled items, include a location for delivery (define limits of contractor's work) and a contact name.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 1- A** **MOVABLE BRIDGE ELECTRICAL EQUIPMENT, NEW CONSTRUCTION ONLY** **LS/LS**

A= Operation
1 (New- Furnish & Install)
4 (Relocate) *Valid through 6-30-10
5 (Existing- Adjust/Modify/Rehab) *Valid through 6-30-10
6 (Remove & Dispose) Note: Contractor takes ownership *Valid through 6-30-10
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership *Valid through 6-30-10

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 1 1	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, F&I	LS	T	1/1/2010	
0508 1 5	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, EXISTING- ADJUST/ MODIFY/REHAB	LS	T	1/1/2010	6/30/2010
0508 1 6	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REMOVE & DISPOSE CONTRACTOR TAKES OWNERSHIP	LS	T	1/1/2010	

508- 2- A MOVABLE BRIDGE GATE

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details

For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.) Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

Design Standards shows location. Remaining specs/details are needed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new gates on an existing bascule bridge.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing gates. Include pay item 508-1 for other electrical system work.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17890

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 2- A** **MOVABLE BRIDGE GATE** **AS**

A= Operation
1 (Furnish & Install)

4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 2 1	MOVABLE BRIDGE GATE, F&I	AS	T	1/1/2010	
0508 2 6	MOVABLE BRIDGE GATE, REMOVE & DISPOSE	AS	T	1/1/2010	
0508 2 7	MOVABLE BRIDGE GATE, REMOVE & STOCKPILE/SALVAGE	AS	T	1/1/2010	

508- 3- A MOVABLE BRIDGE SIGNAL

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details

For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.)

Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics. Coordinate with details shown on Design Standard.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new signals on an existing bascule bridge. Includes the mast arm, monotube, or other supports, as shown in the standards or plans.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing signals. Include pay item 508-1 for other electrical system work.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17890

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 3- A MOVABLE BRIDGE SIGNAL AS

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 3 1	MOVABLE BRIDGE - SIGNAL, F&I	AS		1/1/2010	
0508 3 6	MOVABLE BRIDGE - SIGNAL, REMOVE & DISPOSE	AS	T	1/1/2010	
0508 3 7	MOVABLE BRIDGE - SIGNAL, REMOVE & STOCKPILE/SALVAGE	AS	T	1/1/2010	

508- 4- MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHABILITATION PROJECTS ONLY

Unit **Accuracy** **PlanQuantity?**

Notes

Details

Intended for REHABILITATION PROJECTS for bascule bridge electrical systems. (For new structures, the complete electrical system is included under 508- 1, LS.)

Contact Central Office Structures Design for boiler plate 508 Specification to be modified as required for project specifics.

As needed, the removal, repair, replacement or rehabilitation of specific components will be included, as defined in the project specifications.

For Plan Detail/Tech Spec Items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 4-** **MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHABILITATION PROJECTS ONLY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 4	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB	LS	T	1/1/2010	

508- 72- A MOVABLE BRIDGE EMERGENCY GENERATOR

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details

Includes standby generator system (generator, transfer switch, control panel, etc.) for bascule bridge rehabilitation projects only.
For new structures, emergency generator is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 72- A** **MOVABLE BRIDGE EMERGENCY GENERATOR** **AS**

A = 1 (Furnish & Install)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 72 1	MOVABLE BRIDGE EMERGENCY GENERATOR ,F&I	AS	T	1/1/2010	
0508 72 4	MOVABLE BRIDGE EMERGENCY GENERATOR , REMOVE	AS	T	1/1/2010	

508- 73- A SUBMARINE CABLE ASSEMBLY

Unit LS/LF; LS/M1 **Accuracy** Lump Sum (Linear Foot); Lump Sum (Meter) **PlanQuantity?** yes

Notes

Details

Intended for sub-aqueous cable. For bascule bridge rehabilitation projects only or fixed new bridge projects.
For new bascule bridge projects, submarine cable is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **508- 73- A** **SUBMARINE CABLE ASSEMBLY** **LS/LF**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 73 1	SUBMARINE CABLE ASSEMBLY, FURNISH & INSTALL	LS	T	1/1/2010	
0508 73 3	SUBMARINE CABLE ASSEMBLY, INSTALL	LS	T	1/1/2010	
0508 73 4	SUBMARINE CABLE ASSEMBLY, REMOVE	LS	T	1/1/2010	

508- 76- A MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Includes span drive motors and speed controllers for bascule bridge rehabilitation only. For new structures, span motors are included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **508- 76- A** **MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS** **LS/LS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 76 1	MOVABLE BRIDGE - REHAB, SPAN MOTORS & CONTROLLERS , F&I	LS	T	1/1/2010	
0508 76 4	MOVABLE BRIDGE - REHAB, SPAN MOTORS & CONTROLLERS , REMOVE	LS	T	1/1/2010	

508- 77- A MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Includes programmable logic controllers (controllers, I/O racks, power supplies, programming) for bascule bridge rehabilitation only. For new structures, logic controllers are included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 77- A** **MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER** **EA**

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 77 1	MOVABLE BRIDGE-REHAB,PROGRAMMABLE LOGIC CONTROLLER F&I	EA	T	1/1/2010	
0508 77 5	MOVABLE BRIDGE-REHAB,PROGRAMMABLE LOGIC CONTROLLER PROGRAMMING	EA	T	1/1/2010	

508- 78- A MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Includes limit switches and transducers for bascule bridge rehabilitation only. For new structures, limit switches and transducers are included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 78- A** **MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS** **LS/LS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 78 1	MOVABLE BRIDGE-REHAB, LIMIT SWITCHES & TRANSDUCERS F&I	LS	T	1/1/2010	
0508 78 4	MOVABLE BRIDGE-REHAB, LIMIT SWITCHES & TRANSDUCERS REMOVE	LS	T	1/1/2010	

508- 79- A MOVABLE BRIDGE REHAB- CONTROL CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Includes control console and associated equipment (switches, indicating lights, relays, etc.) for bascule bridge rehabilitation only. For new structures, control console is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design Office for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms

Design SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 79- A** **MOVABLE BRIDGE REHAB- CONTROL CONSOLE** **EA**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 79 1	MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, F&I	EA	T	1/1/2010	
0508 79 4	MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, REMOVE	EA	T	1/1/2010	

508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Includes brake systems (brake shoes, brake drums, brake operators) for bascule bridge rehabilitation only. For new structures, brake system is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 80- A** **MOVABLE BRIDGE REHAB- BRAKE SYSTEM** **EA**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 80 1	MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, F&I	EA	T	1/1/2010	
0508 80 4	MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, REMOVE	EA	T	1/1/2010	

508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Includes motor control center and starters for bascule bridge rehabilitation only. For new structures, control panel or motor controller is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 82- A** **MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Replace)*

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 82 1	MOVABLE BRIDGE-REHAB, CONTROL PANEL - MOTOR CONTROLLER, F&I	EA	T	1/1/2010	
0508 82 5	MOVABLE BRIDGE-REHAB, CONTROL PANEL - MOTOR CONTROLLER, REPLACE	EA	T	1/1/2010	

508- 83-ABB MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Includes drive systems (motor(s), variable speed drive, shop testing) for bascule bridge rehabilitation only. For new structures, integrated drive system is included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 83-ABB** **MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM** **AS**

A = Operation
1 (Furnish & Install)
2 (Replace)
3 (Recondition)
4 (Repair)

BB = Drive Type
01 (25 kW Or Less)
02 (26 - 40 kW)
03 (41 - 60 kW)
04 (61 - 80 kW)
05 (81 - 115 kW)
06 (116 - 155 kW)
07 (156 - 190 kW)

08 (191 Or Larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0508 83101	MOVABLE BRIDGE INTEGRATED DRIVE SYS, F&I, 25KW OR LESS	AS	T	1/1/2010	
0508 83107	MOVABLE BRIDGE-REHAB, INTREGRATED DRIVE SYSTEM, F&I 156 - 190 KW	AS	T	1/1/2010	

510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** yes/no

Notes

Details

LS System: Includes all work related to the navigation lights and accessories for fixed bridges, including the fender and channel lights, wiring, conduit, wiring devices, transformers, enclosures, grounding system, controls, and protective devices, as detailed in the specs and design standard index. (No separate payment for conduit and pull boxes.) The designer should ensure that all details are complete, to correspond to spec references. Note: For dual bridges, use one system; pay item may be entered with either bridge.

Repair/Rehab, EA light: Tech Spec and Plan Details are required to detail location and work to be completed. Measurement and payment will be per light. (If the entire system of lights is to be repaired/rehabilitated, use the LS system pay item.)

For bascule bridges, navigation lights are included under 508-1.

DOCUMENTATION
LUMP SUM: No calculations required unless item is to be adjusted. All calculations and documentation of adjustments, in accordance with the Specifications, are required.
EACH: Final quantity must be recorded in space provided on summary sheet in the plans. All changes must be shown on final plan sheets.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities
COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
EACH and ASSEMBLY ITEMS: Location must be summarized on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 21220

Specifications Section 510

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **510- 1- A** **NAVIGATION LIGHTS- FIXED BRIDGE** **Mixed**

A =
Blank (System) LS/LS
4 (Repair/Rehab light) EA, see details above

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0510 1	NAVIGATION LIGHTS- FIXED BRIDGE, SYSTEM	LS	T	1/1/2010	
0510 1 4	NAVIGATION LIGHTS- FIXED BRIDGE, REPAIR/REHAB	EA	T	1/1/2010	

512- 1- A MOVABLE BRIDGE- CONTROL HOUSE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended for the complete cost of control house for bascule bridges. Include cost of foundation under separate pay items (piling, shaft, etc.) Contact State Structures Design for boiler plate specification to be modified as required for project specifics. Clearly show limits in plans for payment purposes. Include complete bar lists for control house in the plans, Including cost of reinforcing steel for walls and floors.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **512- 1- A** **MOVABLE BRIDGE- CONTROL HOUSE** **LS/LS**

A =
1 (Renovation)
Blank (New)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0512 1	MOVABLE BRIDGE-CONTROL HOUSE, NEW	LS	T	1/1/2010	
0512 1 1	MOVABLE BRIDGE-CONTROL HOUSE, RENOVATE	LS	T	1/1/2010	

512- 71- A MOVABLE BRIDGE PLUMBING SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **512- 71- A** **MOVABLE BRIDGE PLUMBING SYSTEM** **EA**

A = Operation
1 (Furnish & Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0512 71 1	MOVABLE BRIDGE PLUMBING SYSTEM, FURNISH & INSTALL	EA	T	1/1/2010	

514- 71- A FILTER FABRIC, PLASTIC

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Intended for Subsurface Drainage or Stabilization applications, as detailed in Section 514 and 985 of Specifications.

Geotextile fabrics are divided into the following three main classes:
1. Drainage- under all rubble riprap, including cyclopean stone and under gabions; wrapped around drains, pipe joints, and edge-drains; filter behind walls, etc.
2. Erosion Control- silt fence, staked silt barrier, plastic erosion mat.

3. Stabilization- separator between embankment and soft subsoil, reinforcement and pipe bedding.

NOTE: When this item is incidental to other work, no separate payment is made for filter fabric.

Refer to specifications and/or design standards:
Ditch Pavement, Section 524: no separate payment for filter fabric

Related Items **Required** **Recommended** 514-72 for impermeable liner

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 199

Specifications Section 514

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **514- 71- A** **FILTER FABRIC, PLASTIC** **SY**

A =
1 (Subsurface)
2 (Stabilization)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0514 71 1	PLASTIC FILTER FABRIC, SUBSURFACE	SY		1/1/2010	
0514 71 2	PLASTIC FILTER FABRIC, STABILIZATION	SY		1/1/2010	

514- 72- LINER IMPERMEABLE PVC

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 514-71 for "filter" fabric

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **514- 72-** **LINER IMPERMEABLE PVC** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0514 72	LINER IMPERMEABLE PVC	SY	T	1/1/2010	

514- 73- GEOSYNTHETIC CLAY LINER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Contact Larry Jones, State Geotechnical Engineer**

Details Contact the State Geotechnical Engineer prior to using this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **514- 73-** **GEOSYNTHETIC CLAY LINER** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0514 73	GEOSYNTHETIC CLAY LINER	SY	T	1/1/2010	

515- 1- A PIPE HANDRAIL- GUIDERAIL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

To be used as detailed on Design Standards Index 870 (aluminum) or 880 (steel). Two pipe handrail is generally used in locations where drop-off is between 10" and 30". Additional applications may include "steering" pedestrians next to a sidewalk or out of a parking lot (with or without drop-off).

For use next to drop-off greater then 30", refer to Index 800 series and pay items 460-70 or 515-2.
Not valid for use on bridge.

When PVC guiderail is used, complete specifications are needed; consider weather, UV requirements, etc when specifying material requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 870 (aluminum) or 880 (steel) only

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **515- 1- A** **PIPE HANDRAIL- GUIDERAIL** **LF**

A =
1 (Steel) per Index 880
2 (Aluminum) per Index 870
5 (PVC) see BOE detail

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0515 1 1	PIPE HANDRAIL - GUIDERAIL, STEEL	LF		1/1/2010	
0515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF		1/1/2010	
0515 1 5	PIPE HANDRAIL- GUIDERAIL, PVC	LF	T	1/1/2010	

515- 2-ABB PEDESTRIAN/BICYCLE RAILING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

To be used for pedestrian railing next to drop-offs greater than 30". Use in accordance with Index 850 and 860.

These specific rails replace the current two rail system, and are intended to be used when there is a drop-off next to a pedestrian or bicycle facility which must be protected. These rails are not intended for use on top of traffic barriers or where vehicle containment is required.

For drop-off locations less than 30", consider item 515- 1. For other railings, refer to Index series 800 and pay item 460- 70-xxa.

Special Materials: Full material specifications will be required. Ensure that material requirements address UV issues, strength, etc.

Non-standard type/height to be used only when existing design standards do not apply. For minor deviations from standards, note changes in the plans with pay item corresponding to applicable standard & height. Ensure that smaller railing heights are not a climbing issue.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Section 8.8

Other

Standards Index No. 850 or 860

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **515- 2-ABB** **PEDESTRIAN/BICYCLE RAILING** **LF**

A = Required Material Types
1 (Non Specified Material)
2 (Steel Only)
3 (Aluminum Only)
4 (Special Materials) full material specifications needed

BB = Rail Type
01 (42" Picket Railing)
02 (54" Picket Railing)
03 (Non-standard Height) see detail requirements above

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0515 2101	PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED,42" PICKET RAIL	LF		1/1/2010	
0515 2102	PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED,54" PICKET RAIL	LF		1/1/2010	
0515 2201	PEDESTRIAN, BICYCLE RAILING, STEEL ONLY,42" PICKET RAIL	LF		1/1/2010	
0515 2202	PEDESTRIAN / BICYCLE RAILING, STEEL ONLY, 54" PICKET RAIL	LF		1/1/2010	
0515 2301	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY,42" PICKET RAIL	LF		1/1/2010	
0515 2302	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY,54" PICKET RAIL	LF		1/1/2010	
0515 2303	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY, SPECIAL	LF	T	1/1/2010	

519- 78- BOLLARDS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

Intended for posts placed at the ends of pedestrian or special-use facilities. Space/locate as necessary to restrict certain vehicles, while allowing others.

Tech Spec should indicate that this is a plan quantity item. Details to consider include: materials (concrete, wood, metal, other), installation methods and/or construction requirements. Materials spec to address UV, strength, and/or other applicable issues.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **519- 78-** **BOLLARDS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0519 78	BOLLARDS	EA	T	1/1/2010	

520- 1- AA CONCRETE CURB AND GUTTER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Includes construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measure along the face of the curb. Cost of asphalt curb pad, and additional curb thickness required, to be included in the cost of curb and gutter.

Special Type: To be used for any curb & gutter, other than "Type E" or "Type F", as shown in the design standards or plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02 (with deductions): Curb/Gutter Calculations and Continuation; or 700-050-03 (no deductions) Linear Measurement, Component Weight, Per Hours, Per Day, or Per Each Computations and Continuation

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications Section 520

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 1- AA** **CONCRETE CURB AND GUTTER** **LF**

AA =
7 (Type E)
8 (Special) see BOE detail
10 (Type F)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF		1/1/2010	
0520 1 8	CONCRETE CURB & GUTTER, SPECIAL	LF		1/1/2010	
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF		1/1/2010	

520- 2- AA CONCRETE CURB

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details For use next to concrete or flexible pavement. Per specification, asphalt curb pad will be included in unit price, when detailed in the plans.

Per the standard, joints are required between curb and concrete pavement. Per the spec, "Joint materials shall be included in the Contract unit price for the item in which it is used." (No separate payment for joint.)

SPECIAL: Do not use SPECIAL for Types A, B, or D. Small changes to Index 300 should be noted in the plans and paid under the applicable type. Special may be used when the existing standards are not applicable; full details are required in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02 (with deductions): Curb/Gutter Calculations and Continuation; or 700-050-03 (no deductions) Linear Measurement, Component Weight, Per Hours, Per Day, or Per Each Computations and Continuation

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications Section 520

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 2- AA** **CONCRETE CURB** **LF**

AA =
1 (Type A)
2 (Type B)
4 (Type D)
8 (Type RA)
9 (Special)*

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 2 1	CONCRETE CURB, TYPE A	LF		1/1/2010	
0520 2 2	CONCRETE CURB, TYPE B	LF		1/1/2010	
0520 2 4	CONCRETE CURB, TYPE D	LF		1/1/2010	
0520 2 8	CONCRETE CURB, TYPE RA	LF		1/1/2010	
0520 2 9	CONCRETE CURB, SPECIAL	LF	T	1/1/2010	

520- 3- CONCRETE VALLEY GUTTER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02 (with deductions): Curb/Gutter Calculations and Continuation; or 700-050-03 (no deductions) Linear Measurement, Component Weight, Per Hours, Per Day, or Per Each Computations and Continuation

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications Section 520

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 3-** **CONCRETE VALLEY GUTTER** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 3	VALLEY GUTTER- CONCRETE	LF		1/1/2010	

520- 5- AB CONCRETE TRAFFIC SEPARATOR

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Includes construction of traffic separator in 4, 6, and 8.5' (1.2, 1.8, and 2.6 meter) widths. Includes all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Include the length of the nose when calculating the linear feet (meters). Refer to Plans Preparation Manual for proper use. For separator of variable width, consider item 520-70, paid per area.

Related Items **Required** **Recommended** 520- 70 (2520- 70)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02 (with deductions): Curb/Gutter Calculations and Continuation; or 700-050-03 (no deductions) Linear Measurement, Component Weight, Per Hours, Per Day, or Per Each Computations and Continuation

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300, 302, 212, 213

Specifications Section 520

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **520- 5- AB** **CONCRETE TRAFFIC SEPARATOR** **LF**

A =
1 (Type I)
2 (Type II)
4 (Type IV)
5 (Type V)

B =
1 (4' Wide)
2 (6' Wide)
6 (8.5' Wide)

Notes Valid widths based on current design standards. All other widths use 520-70 item.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	LF		1/1/2010	
0520 5 12	TRAFFIC SEPARATOR CONCRETE-TYPE I, 6' WIDE	LF		1/1/2010	
0520 5 16	TRAFFIC SEPARATOR CONCRETE- TYPE I, 8.5' WIDE	LF		1/1/2010	
0520 5 21	TRAFFIC SEPARATOR - CONCRETE, TYPE II, 4' WIDE	LF		1/1/2010	
0520 5 22	TRAFFIC SEPARATOR - CONCRETE, TYPE II, 6' WIDE	LF		1/1/2010	
0520 5 41	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 4' WIDE	LF		1/1/2010	
0520 5 42	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 6' WIDE	LF		1/1/2010	
0520 5 46	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 8.5' WIDE	LF		1/1/2010	
0520 5 51	TRAF SEP CONC, TYPE V, 4' WIDE	LF		1/1/2010	

520- 6- SHOULDER GUTTER, CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Deduct inlet top lengths as shown in the standards from the length of curb and gutter. For Type S, length to be measured along the face of the curb.

When spillway is needed, as shown on Index 284, include payment for spillway in shoulder gutter. Add the length of the spillway to the shoulder gutter quantity for payment.

Related Items **Required** **Recommended**

Forms

Design SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02 (with deductions): Curb/Gutter Calculations and Continuation; or 700-050-03 (no deductions) Linear Measurement, Component Weight, Per Hours, Per Day, or Per Each Computations and Continuation

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 220, 284, 300

Specifications Section 520

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 6-** **SHOULDER GUTTER, CONCRETE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 6	SHOULDER GUTTER- CONCRETE	LF		1/1/2010	

520- 7- A GRANITE CURB

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?**

Notes

Details Measured by Plan Quantity.

Tech Specs required to detail materials, construction/placement, as well as measurement and payment. Tech specs should indicate that damage due to contractors operations will be repaired/replaced at no additional cost to the department.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 7- A** **GRANITE CURB** **LF**

A= Operation
1 (Furnish & Install)
2 (Reset)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 7 1	GRANITE CURB, FURNISH & INSTALL	LF		1/1/2010	
0520 7 2	GRANITE CURB, RESET	LF		1/1/2010	

520- 70- CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH

Unit SY; M2 **Accuracy** Square Yard; Square **PlanQuantity?** yes

Meter

Notes

Details Includes construction of traffic separator in variable width, as well as non-standard widths. Refer to Plans Preparation Manual for proper use. Use item 520-5 for standard constant width separator, paid per length.

Plan Detail requirement: Show the limits of the special/variable width separator. Tabulate the area, by location, in the plans. This item will be paid per plan quantity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 302

Specifications Section 520

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 70-** **CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL-VARIABLE WIDTH	SY	T	1/1/2010	

521- 1- A MEDIAN CONCRETE BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Median Concrete Barrier Wall is to be used when calling for concrete barrier wall that is to be located in a median (double face or full wall barrier); see pay item 521- 72- (2521- 72-) for shoulder wall. Consists of construction of plain or reinforced barrier wall, as shown in the design standards. The contractor may request approval for precast construction in lieu of cast-in-place.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 217, 410, 415

Specifications Section 521

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **521- 1- A** **MEDIAN CONCRETE BARRIER WALL** **LF**

A =
Blank (Cast In Place)
1 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 1	MEDIAN CONCRETE BARRIER WALL	LF		1/1/2010	
0521 1 1	MEDIAN BARRIER WALL CONC, PRECAST	LF		1/1/2010	

521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Items to be used in accordance with Standard Indexes. Include barriers located on approach slabs in this item.

If any modification is made to a standard barrier, the "Special" pay item should be used along with complete plan details. Details for any modified/non-standard barrier must be submitted to the Structures Design Office for approval, due to crash testing requirements.

Standard Indexes:
Index 420 - 32” F-Shape
Index 425: 42” F-Shape
Index 421: 32” Median, Double Face
Index 423: 32” Vertical Face
Index 422: 42” Vertical Face
Index 424: Corral With Curb
Index 424: Corral W/O Curb
Index 480 thru Index 483: Retrofit-Vertical Face
Index 5210: F–Shaped with Sound Barrier Wall, 8’Ht.

REPAIR EXISTING: The repair pay item should only be used for maintenance/operations contracts, where the type of barrier and/or repair details are provided in the plans or specifications. Ensure that complete details are provided for materials, repair requirements, measurement and payment.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	Vol 1, Ch 2
	Other	SDG 6.7
	Standards	See detail for index numbers 420, 421, 422, 423, 424, 425, 480, 481, 482, 483, 5210
	Specifications	Section 521
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **521- 5- A** **CONCRETE TRAFFIC RAILING- BRIDGE** **LF**

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” F-Shape Median, Double Face)
4 (32” Vertical Face)
5 (42” Vertical Face)
6 (Corral With Curb)
7 (Corral W/O Curb)
8 (Retrofit-Vertical Face)
9 (Special Design) see BOE Detail above
10 (Repair Existing Railing) see BOE Detail above
20 (F–Shaped with Sound Barrier Wall 8’Ht.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 5 1	CONCRETE TRAFFIC RAILING, BRIDGE 32" F - SHAPE	LF		1/1/2010	
0521 5 2	CONCRETE TRAFFIC RAILING, BRIDGE 42" F - SHAPE	LF		1/1/2010	
0521 5 3	CONCRETE TRAFFIC RAILING, BRIDGE, 32" F - SHAPE, MEDIAN, DOUBLE FACE	LF		1/1/2010	
0521 5 4	CONCRETE TRAFFIC RAILING, BRIDGE, 32" VERTICAL FACE	LF		1/1/2010	
0521 5 5	CONCRETE TRAFFIC RAILING, BRIDGE, 42" VERTICAL FACE	LF		1/1/2010	
0521 5 6	CONCRETE TRAFFIC RAILING- BRIDGE, CORRAL W/CURB	LF		1/1/2010	
0521 5 7	CONCRETE TRAFFIC RAILING, BRIDGE, CORRAL WITHOUT CURB	LF		1/1/2010	
0521 5 8	CONCRETE TRAFFIC RAILING, BRIDGE,RETROFIT-VERTICAL FACE	LF		1/1/2010	

0521 5 9	CONCRETE TRAFRIC RAILING, BRIDGE, SPECIAL DESIGN	LF	T	1/1/2010
0521 5 10	CONCRETE TRAFRIC RAILING, BRIDGE, REPAIR EXISTING	LF	T	1/1/2010
0521 5 20	CONCRETE TRAFFIC RAILING-BRIDGE, F SHAPED WITH SOUND BARRIER WALL 8' HEIGHT	LF		1/1/2010

521- 6- A CONCRETE PARAPET

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes **PROPOSED: Items valid through 12-31-10. Replaced by 521-6-AB. Structures and/or Estimates Bulletin pending with actual effective dates.**

Details Intended for pedestrian/ bicycle railings located on bridge or on retailing walls. Includes cost of concrete portion of the parapet (including cost of sidewalk as applicable). Railing mounted on the top of parapet are to be paid for separately.
Show location w/ quantity block on bridge superstructure sheets and wall sheets as required.
When Index 800, Pedestrian Bicycle Railing is utilized, Pay Item 460-70-3 also Required

Special Design: If significant modifications are made to this design standard, the "Special" pay item should be used along with complete plan details and/or tech specs.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 820

Specifications Section 521

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 6- A** **CONCRETE PARAPET** **LF**

A = Type
1 (Pedestrian/Bicycle)
2 (Special Design) see BOE detail
3 (Retaining Wall System Mounted w/ Sidewalk)
4 (Retaining Wall System Mounted w/ sidewalk and 8' Sound Wall)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 6 1	CONCRETE PARAPET, PEDEST/BICYCLE	LF		1/1/2010	
0521 6 2	CONCRETE PARAPET, SPECIAL	LF		1/1/2010	
0521 6 3	CONCRETE PARAPET, RETAINING WALL MOUNTED WITH SIDEWALK	LF		1/1/2010	

521- 6- AB CONCRETE PARAPET

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes **PROPOSED: New items effective 1-1-11; replaces 521- 6- A. Structures and/or Estimates Bulletin pending with actual effective dates.**

Details Intended for pedestrian/ bicycle railings located on bridge or on retailing walls. Includes cost of concrete portion of the parapet (including cost of sidewalk as applicable). Railing mounted on the top of 27" parapets are to be paid for separately.
Show location w/ quantity block on bridge superstructure sheets and wall sheets as required.

When Index 800, 27" Pedestrian Bicycle Railing is utilized, Pay Item 460-70-3 also Require

Special Design: If significant modifications are made to the design standards, the "Special" pay item should be used along with complete plan details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 820, 825, 826, and 5300.

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 6- AB** **CONCRETE PARAPET** **LF**

A = Type
1 (Pedestrian/Bicycle)
2 (Special Design) see BOE detail; B=0
3 (Retaining Wall System Mounted w/ Sidewalk) Index 5300
4 (Retaining Wall System Mounted w/ sidewalk and 8' Sound Wall) Index 5300

B= Height
1 (27") Index 820, with metal railing, paid under 460-70-3
2 (42") Index 825
3 (54") Index 826

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

521- 7- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for 8' retaining wall mounted sound barrier with junction slab.
Show location with quantity block on wall sheets

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 5210

Specifications Section 521

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

Status

Struct. **521- 7- AA** **CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM** **LF**

A =
1 (F Shape with Sound Barrier Wall 8' Ht.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 7 1	CONCRETE TRAFFIC RAILING BARRIER-RETAINING WALL SYSTEM, F SHAPE WITH SOUND BARRIER WALL, 8' HEIGHT	LF		1/1/2010	

521- 8- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH JUNCTION SLAB

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Item to be used in accordance with Standard Indexes. Show location with quantity block in wall plans.
Sometimes used with item 521- 5- A for traffic railing systems that extend onto bridge.

Note description change from "Sleeper Slab" to "Junction Slab", in accordance with Design Standards.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 420 & 5300- 32” F-Shape
Index 425 & 5300-42” F-Shape)
Index 423 & 5300 -32” Vertical Face
Index 422 & 5300-42” Vertical Face
Index 424 & 5300-Corral With Curb
Index 520- Gravity Wall

Specifications Section 521

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 8- AA** **CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH JUNCTION SLAB** **LF**

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” Vertical Face)
4 (42” Vertical Face)
5 (Corral With Curb)
20 (Special)*

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 8 1	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER/ JUNCTION SLAB, 32" F SHAPE	LF		1/1/2010	
0521 8 2	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER/JUNCTION SLAB, 42" F SHAPE	LF		1/1/2010	
0521 8 3	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER/JUNCTION SLAB, 32" VERTICAL FACE	LF		1/1/2010	
0521 8 4	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER/ JUNCTION SLAB, 42" VERTICAL FACE	LF		1/1/2010	

0521 8 20	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER/ JUNCTION SLAB, SPECIAL	LF	1/1/2010

521- 72- AA SHOULDER CONCRETE BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Intended for rigid shoulder roadway barriers with 8'-14' shoulder mounted sound barrier walls and box culvert mounted barriers.
Use 521- 1- (2521- 1-) for median wall.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 410, 411, 5210, 5211, 5213, 5214, 5215

Specifications Section 521

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 72- AA** **SHOULDER CONCRETE BARRIER WALL** **LF**

AA =
2 (Box Culvert)
3 (Rigid - Shoulder) 32", Index 410
4 (Rigid - Retaining)
5 (Rigid - Curb & Gutter)
6 (Plain - Shoulder) A=6 valid through 12-31-2009
7 (Rigid - Shoulder, With 8' Sound Wall)
10 (Rigid Shoulder 42") Index 411
11 (Rigid Shoulder 54") Index 411
20 (F-Shaped, With 8' Sound Wall)
21 (F-Shaped, With 10' Sound Wall)
22 (F-Shaped, With 12' Sound Wall)
23 (F-Shaped, With 14' Sound Wall)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 72 2	SHOULDER CONCRETE BARRIER WALL, BOX CULVERT	LF		1/1/2010	
0521 72 3	SHOULDER CONCRETE BARRIER WALL, RIGID-SHOULDER	LF		1/1/2010	
0521 72 4	SHOULDER CONCRETE BARRIER WALL, RIGID RETAINING	LF		1/1/2010	
0521 72 5	SHOULDER CONCRETE BARRIER WALL, RIGID-CURB & GUTTER	LF		1/1/2010	
0521 72 6	SHOULDER CONCRETE BARRIER WALL, PLAIN - SHOULDER	LF		1/1/2010	6/30/2010
0521 72 7	SHOULDER CONCRETE BARRIER WALL, RIDIG - SHOULDER WITH 8' SOUND WALL	LF		1/1/2010	
0521 72 10	SHOULDER CONCRETE BARRIER WALL, RIGID SHOULDER 42"	LF		1/1/2010	
0521 72 11	SHOULDER CONCRETE BARRIER WALL, RIGID SHOULDER 54"	LF		1/1/2010	
0521 72 20	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 8' SOUND WALL	LF		1/1/2010	
0521 72 21	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 10' SOUND WALL	LF		1/1/2010	
0521 72 22	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 12' SOUND WALL	LF		1/1/2010	
0521 72 23	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 14' SOUND WALL	LF		1/1/2010	

521- 73- CONCRETE BARRIER WALL- REMOVAL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This work normally paid for under Clearing and Grubbing or removal of existing structures. Read standards and specifications carefully before use; plan details may be required.

To be used for Roadway barrier only. For bridge barrier, refer to Structures Standards.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 521

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 73-** **CONCRETE BARRIER WALL- REMOVAL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0521 73	CONCRETE BARRIER WALL, REMOVAL	LF		1/1/2010	

522- 1- CONCRETE SIDEWALK, 4" THICK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of construction of plain or reinforced sidewalk. Includes all materials, foundation preparation, joint forming (or sawing), placing, finishing and curing. Specifically excludes excavation.
Sidewalk 6" (0.15 meter) is used in traffic-bearing situations, i.e., driveways.
Detectable Warning for sidewalk ramps is incidental to the cost of new sidewalk; for retro-fit of ramps, refer to Section 527 of the specifications.
Additional details on Index 310.
For designs near significant trees, consult with Environmental Management Office.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Ch 8

Other

Standards Index No. 282, 304, 310, 515

Specifications Section 522

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 1-** **CONCRETE SIDEWALK, 4" THICK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0522 1	SIDEWALK CONCRETE, 4" THICK	SY		1/1/2010	

522- 2- CONCRETE SIDEWALK, 6" THICK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Refer to pay item 522-1 for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Ch 8

Other

Standards Index No. 282, 304, 310

Specifications Section 522

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 2-** **CONCRETE SIDEWALK, 6" THICK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0522 2	SIDEWALK CONCRETE, 6" THICK	SY		1/1/2010	

522- 3- BUS BOARDING PAD- CONCRETE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **New item available 1-1-10.**

Details To be used for the roadway portion of a bus pad. Show dimensions, including pad thickness, in the plans. Details or specifications are required to indicate the concrete class (strength).

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 3-** **BUS BOARDING PAD- CONCRETE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0522 3	BUS BOARDING PAD- CONCRETE	SY		1/1/2010	

522- 4- BUS SHELTER PAD- CONCRETE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **New item available 1-1-10.**

Details To be used for the pedestrian (non-roadway) portion of a bus pad. Show dimensions, including pad thickness, in the plans. Details or specifications are required to indicate the concrete class (strength).

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 4-** **BUS SHELTER PAD- CONCRETE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0522 4	BUS SHELTER PAD- CONCRETE	SY		1/1/2010	

523- 1- A PATTERNED / TEXTURED PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Includes placement of a patterned (colored) and/or textured (imprinted, stamped) treatment. Work/materials (coloring, coating, etc.) for treatment included under this item. Underlying asphalt/concrete material paid for separately. Refer to the PPM for application

restrictions.

Unit of measure is Plan Quantity, without deductions for trees, manholes, etc, per specification.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Ch 2

Other

Standards

Specifications Section 523

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **523- 1- A** **PATTERNED / TEXTURED PAVEMENT** **SY**

A= Underlying Pavement Material
1 (Asphalt)
2 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0523 1 1	PATTERNED / TEXTURED PAVEMENT, ASPHALT	SY		1/1/2010	
0523 1 2	PATTERNED / TEXTURED PAVEMENT, CONCRETE	SY		1/1/2010	

524- 1- A CONCRETE DITCH PAVEMENT: NON-REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes, ditch blocks within ditch pavement area, furnishing and placing the filter fabric, skimmers, and any incidental materials, as detailed in the plans.

Refer to Index 281 for additional information.

Tabulate ditch pavement and ditch blocks, by location in the plans.

Related Items **Required** **Recommended**

Forms **Design** SBDTPS; SBDitchPvmt: Summary of Ditch Pavement and Sod

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 281

Specifications Section 524

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 1- A** **CONCRETE DITCH PAVEMENT: NON-REINFORCED** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0524 1 1	CONCRETE DITCH PAVT, NON REINFORCED, 3"	SY		1/1/2010	
0524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY		1/1/2010	
0524 1 3	CONCRETE DITCH PAVEMENT, NON REINFORCED, 5"	SY		1/1/2010	
0524 1 4	CONCRETE DITCH PAVEMENT, NON REINFORCED, 6"	SY		1/1/2010	

524- 1- AB CONCRETE DITCH PAVEMENT:REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details

Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes, ditch blocks within ditch pavement area, furnishing and placing the filter fabric, skimmers, and any incidental materials, as detailed in the plans.
Refer to Index 281 for additional information.
When reinforcement is called for, detail quantities in the plans. No separate payment is made for reinforcement.

Tabulate ditch pavement and ditch blocks, by location in the plans.

Related Items **Required** **Recommended**

Forms **Design** SBDTPS; SBDitchPvmt: Summary of Ditch Pavement and Sod

Construction Refer to Comp Book

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 281

Specifications Section 524

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 1- AB** **CONCRETE DITCH PAVEMENT:REINFORCED** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

B =
9 (Reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0524 1 19	CONCRETE DITCH PAVT, 3", REINFORCED	SY		1/1/2010	
0524 1 29	CONCRETE DITCH PAVEMENT, 4", REINFORCED	SY		1/1/2010	
0524 1 49	CONCRETE DITCH PAVEMENT, 6", REINFORCED	SY		1/1/2010	

524- 2- A CONCRETE SLOPE PAVEMENT: NON-REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Intended for non-reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications Section 524
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 2- A** **CONCRETE SLOPE PAVEMENT: NON-REINFORCED** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0524 2 1	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 3"	SY		1/1/2010	
0524 2 2	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 4"	SY		1/1/2010	

524- 2- AB CONCRETE SLOPE PAVEMENT: REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Intended for reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications Section 524
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 2- AB** **CONCRETE SLOPE PAVEMENT: REINFORCED** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

B =
9 (Reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0524 2 4	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 6"	SY		1/1/2010	
0524 2 29	CONCRETE SLOPE PAVEMENT, 4", REINFORCED	SY		1/1/2010	
0524 2 49	CONCRETE SLOPE PAVEMENT, 6", REINFORCED	SY		1/1/2010	

524- 3- CONCRETE CORE DITCH BLOCKS

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** yes

Notes **Effective July 2009, with plan details or tech spec. Modified Section 524 pending for July 2010.**

Details Cubic Yard item for concrete core ditch blocks to be used ONLY for grass or earth ditches without other ditch pavement. Tabulate each location and cubic yard quantity of concrete in the plans. Plan quantity payment also includes any necessary earthwork.

Do not use this pay item for Ditch Blocks within areas where payment is made for Concrete Ditch Pavement.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction

Documentation **Design** Locate in plans, summarize quantities by location on summary sheet in the plans. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **524- 3-** **CONCRETE CORE DITCH BLOCKS** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0524 3	CONC CORE DITCH BLOCKS	CY		1/1/2010	

525- 1- ASPHALTIC CONCRETE CURB

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details Not intended for temporary or MOT applications. Use in accordance with Index 300.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-02: Curb/Gutter Calculations and Continuation

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications Section 525

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **525- 1-** **ASPHALTIC CONCRETE CURB** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0525 1	CURB ASPHALTIC CONC	LF		1/1/2010	

526- 1- A PAVERS, ARCHITECTURAL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Used for roadway (roadway, commercial driveways) and/or sidewalk (sidewalks, medians, and residential driveway) applications. Refer to the PPM for restricted applications.

Measurement is per square yard, with no deduction for ornamental trees, manholes, inlets, or other public appurtenances within the normal area of the pavers. Refer to the specifications for measurement details.

For Patterned/Textured pavement (asphalt or concrete), use 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Ch 2
	Other	
	Standards	Index 515 for turnouts
	Specifications	Section 526
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **526- 1- A** **PAVERS, ARCHITECTURAL** **SY**

A =
1 (Roadway)
2 (Sidewalk)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	SY		1/1/2010	
0526 1 2	PAVERS, ARCHITECTURAL, SIDEWALK	SY		1/1/2010	

527- 1- DETECTABLE WARNING ON EXISTING WALKING SURFACE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is to be used for Detectable Warnings applied to existing walking surfaces (RETROFIT for previous projects), used in coordination with Index 304.

For new installations (detectable warnings constructed under the current project/proposal), use index 304; cost of detectable warning for new installations is included in the cost of the walking surface- sidewalk, curb, etc.
Refer to specifications for a complete description of acceptable products.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 304

Specifications Section 527

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **527- 1-** **DETECTABLE WARNING ON EXISTING WALKING SURFACE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0527 1	DETECTABLE WARNING ON EXISTING WALKING SURFACE, RETROFIT	EA		1/1/2010	

530- 1- RIPRAP- SAND - CEMENT

Unit CY; M3 **Accuracy** 1/10 Cubic Yard; 1/10 Cubic Meter **PlanQuantity?** no

Notes

Details This item entails the use of sand-cement bags to construct endwalls, provide fill slope protection, and/or provide ditch bottom and ditch slope protection. To be used in accordance with Design Standards.

Note, per specification: Record and show how quantity was arrived at on tabulation form 700-050-56. If sand-cement is proportioned by volume, the sand shall be measured loose in an approved measure prior to mixing with cement. If proportioned by weight, approved scales shall be used for this purpose and the volume shall be calculated using a standard conversion factor for sand of 85 lb/ft³ (1360 kg/m³).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 258 or 268

Specifications Section 530

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 1-** **RIPRAP- SAND - CEMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0530 1	RIPRAP, SAND-CEMENT	CY		1/1/2010	

530- 3- A RIPRAP- RUBBLE

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details

To be used for bank and shore, bridge abutment, ditch, and outlet structure protection. Refer to Drainage Manual for design criteria. Gradation is given in the specifications.
Design quantity is based on the following: W = Vol.s X S.G. X Ww X Vf
W = Weight of Stone
Vol.s = Volume of Stone
S.G. = Specific Gravity
=2.3 for Bank & Shore Protection
=1.9 for Ditch Lining
Ww = 62.4 lb/ft3 (1 MT/M3) Weight of Water
Vf = .90 (Void Factor)
NOTE: remember to convert weight (LB) to (TN) for unit of measure & payment.

COASTAL SHORE- LARGE BOULDERS: Contact the State Drainage Office, prior to using this item. The standard specifications must be modified to detail the boulder size and specific gravity.

Final measure, per specifications, will be by railroad scales, truck scales, or barge displacement.

Related Items **Required** **Recommended** 514-71

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet
COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications Section 530
Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 3- A** **RIPRAP- RUBBLE** **TN**

A =
3 (Bank & Shore)
4 (Ditch Lining)
5 (Coastal Shore- Large Boulders) to be used only with approval; see details above.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0530 3 3	RIPRAP- RUBBLE, BANK AND SHORE	TN		1/1/2010	
0530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN		1/1/2010	
0530 3 5	RIPRAP- RUBBLE, COASTAL SHORE- LARGE BOULDERS	TN	M	1/1/2010	

530- 74- BEDDING STONE

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 530

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 74-** **BEDDING STONE** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0530 74	BEDDING STONE	TN		1/1/2010	

530- 76- A GABION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Standards under development; contact the State Drainage Office for assistance.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 76- A** **GABION MAT** **SY**

A = Thickness
1 (6" Thick)
2 (9" Thick)
3 (18")
4 (12")
5 (15")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0530 76 2	GABION MAT, 9" THICK	SY	T	1/1/2010	
0530 76 4	GABION MAT, 12" THICK	SY	T	1/1/2010	
0530 76 5	GABION MAT, 15" THICK	SY	T	1/1/2010	

530- 77- A GABION BASKET

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 77- A** **GABION BASKET** **SY**

A =
1 (12" Thick)
2 (36" Thick)
3 (30" Thick)
4 (18" Thick)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

530- 78- RIPRAP- ARTICULATING BLOCK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **530- 78-** **RIPRAP- ARTICULATING BLOCK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0530 78	RIPRAP - ARTICULATING BLOCK	SY	T	1/1/2010	

530- 79- PLASTIC CELLULAR CONFINEMENT SYSTEM

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?**

Notes **Effective January 2009 letting, with approval for specific projects.**

Details Contact the State Drainage Office for approval, prior to using this item. Technical Specifications should be reviewed by Drainage Office, Construction Office, and/or State Geotechnical Engineer.

Intended for permanent erosion control applications. Temporary applications are covered under Section/Items 104. Reinforced Soil Slopes and/or Soft Soil reinforcement covered under Section/Items 145.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **530- 79-** **PLASTIC CELLULAR CONFINEMENT SYSTEM** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

534- 72-1AA SOUND BARRIERS- INCLUDING FOUNDATION

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details To be used for panel-type sound barrier (wall) construction.
Refer to standards for details. Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel,

bottom of panel, without deductions for openings; refer to specs for additional information. Special details must be included in the plans.

NOTE: Sound barriers to be placed on bridges or MSE wall sections are not covered by the new standards or this pay item. Sound barriers in these locations have separate standards and pay items. See 521-5, 521-7, and 521-72 for shoulder mounted sound barriers.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 32

Other

Standards Index No. 5200 series: 5200, 5201, 5202, 5203, 5204, 5205, 5206

Specifications Section 534

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **534- 72-1AA** **SOUND BARRIERS- INCLUDING FOUNDATION** **SF**

A=
01 (Permanent)
02 (Temporary)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0534 72101	SOUND BARRIER-INC FOUNDATION, PERMANENT	SF		1/1/2010	
0534 72102	SOUND BARRIER-INC FOUNDATION, TEMPORARY	SF	T	1/1/2010	

534- 73- PERIMETER WALL

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes **Monitor: Steve Nolan, State Structures Design Office**

Details To be used for perimeter wall construction, in accordance with Developmental Design Index D5250. Contact the State Structures Design Office for drawings and details. Also used with Developmental Specifications.

Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information.

NOTE: There is currently no specific criteria specifying when perimeter walls are justified.

This will be a project by project decision based on project demands and resolved by the District.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 32

Other

Standards Developmental Index No. D5250

Specifications

Developmental Specification required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **534- 73-** **PERIMETER WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0534 73	PERIMETER WALL	SF	M	1/1/2010	

536- 1- AA GUARDRAIL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details

Consists of the construction of metal guardrail on posts of timber or steel. Panels are 12.5' (3.810 meters) in length.
The plan length of a run of guardrail should normally be determined as a multiple of the nominal panel lengths.

When attaching guardrail to a new or widened bridge railing, the guardrail (including transition and thrie beam panels) is paid for under item 536-1- (2536-1-). The cost of connecting the guardrail to the bridge railing is included in the cost of the guardrail.

When connecting guardrail to an existing bridge railing or to vertical face rail retrofits, the guardrail (including transition and thrie beam panels) is paid for under the item 536-1- (2536-1-) and item 536-8 is included for the cost of connecting the guardrail to the existing bridge railing. Other situations should be noted in the plans.

Pipe rail is a pedestrian safety treatment; it is to be included in the cost of the guardrail, as indicated on standards. Tabulate the length of pedestrian pipe rail on the Summary of Guardrail in the plans. Refer to Index 400, Pedestrian Treatments, for additional information.

Rub rail is used for guardrail placed on slopes, as shown on the standards, mounted approximately 12 inches below the center of the standard guardrail. Per the standard, payment is included in the contract unit price for guardrail. Tabulate the length of rubrail on the Summary of Guardrail in the plans. Use the "Roadway, with rubrail" pay item.

Document locations on summary table. Refer to PPM Vol 2, Chapter 7 for details.

Object markers used for facing reverse laning traffic are included in the cost of the guardrail.

Bridge Thrie Bean: Refer to Index 470. Payment is made under 460-71-1

Related Items **Required** 339- 1 (2339- 1) **Recommended** 536- 7 and 536- 8 (2536- 7, 2536- 8)

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 400, 402

Specifications Section 536

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 1- AA** **GUARDRAIL** **LF**

A =
1 (Roadway)
2 (Bridge)
3 (Roadway, Double Face)
4 (Bridge, Double Face)
5 (Roadway, Thrie Beam)
6 (Bridge, Thrie Beam) valid through 6-30-10; see details above.
8 (Roadway, With Rub Rail) see details above for pipe rail.
9 (Roadway, Thrie Beam, Double Face)
11 (Roadway, Modified Thrie Beam)
12 (Roadway, Modified Thrie Beam, Double Face)
13 (Roadway, Install only- materials available at FDOT Maintenance Yard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 1 1	GUARDRAIL -ROADWAY	LF		1/1/2010	
0536 1 2	GUARDRAIL- BRIDGE	LF		1/1/2010	
0536 1 3	GUARDRAIL- ROADWAY, DOUBLE FACE	LF		1/1/2010	
0536 1 5	GUARDRAIL- ROADWAY, THRIE BEAM	LF		1/1/2010	
0536 1 6	GUARDRAIL- BRIDGE, THRIE BEAM	LF		1/1/2010	
0536 1 8	GUARDRAIL, ROADWAY, WITH RUB RAIL	LF		1/1/2010	
0536 1 9	GUARDRAIL- ROADWAY, THRIE BEAM, DOUBLE FACE	LF		1/1/2010	
0536 1 10	GUARDRAIL, ROADWAY, WEATHERING STEEL	LF		1/1/2010	
0536 1 11	GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM	LF		1/1/2010	
0536 1 12	GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM-DOUBLE FACE	LF		1/1/2010	
0536 1 13	GUARDRAIL, ROADWAY, INSTALL ONLY-MATERIALS AVAILABLE AT FDOT MAINTENANCE YARD	LF		1/1/2010	

536- 2- GUARDRAIL- SHOP BENT PANELS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** yes

Notes

Details When this item is used, item 339- 1 must be used.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 536

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 2-** **GUARDRAIL- SHOP BENT PANELS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 2	GUARDRAIL- SHOP-BENT PANELS	LF		1/1/2010	

536- 4- A RETROFIT EXISTING GUARDRAIL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This item to be used when existing guardrail is to be retrofitted with additional components. Do not use this item for replacement of complete guardrail system.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 4- A** **RETROFIT EXISTING GUARDRAIL** **LF**

A= Component
1 (Pedestrian/Cyclist Pipe Rail)
2 (Rubrail)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 4 1	RETROFIT EXIST GUARDRAIL, PEDESTRIAN/ CYCLE PIPE RAIL	LF		1/1/2010	

536- 7- SPECIAL GUARDRAIL POST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Index 400 for all types of special posts: timber, steel, and others.
Used when culvert, pier footing or other concrete structure precludes normal post installation and special fabrication is required. Specifically excludes posts for double-faced median guardrail. When this item is used, item 536- 1-xxa (2536- 1-xxa) must be used.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 536

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 7-** **SPECIAL GUARDRAIL POST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 7	SPECIAL GUARDRAIL POST	EA		1/1/2010	

536- 8- A GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used when connecting guardrail to an existing bridge. Includes furnishing and installing special end shoes, wood blocks or concrete wedges, concrete posts and necessary hardware. When this item is used, item 536- 1 (2536- 1) must be used.
Remove: Plans or specs to indicate disposal or salvage instruction.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 402

Specifications Section 536

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 8- A** **GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY** **EA**

A = Operation
Blank (Furnish & Install)
1 (Install)
2 (Furnish)
3 (Relocate)
6 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 8	GUARDRAIL- BRIDGE ANCHORAGE ASSEMBLY (FURNISH & INSTALL)	EA		1/1/2010	
0536 8 1	GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, INSTALL	EA		1/1/2010	
0536 8 6	GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, REMOVE	EA		1/1/2010	

536- 73- GUARDRAIL REMOVAL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For single run, double face guardrail: measurement and payment are based on the single run length. Refer to specification for details.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 536

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 73-** **GUARDRAIL REMOVAL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 73	GUARDRAIL REMOVAL	LF		1/1/2010	

536- 76- GUARDRAIL POSTS- SPECIAL LENGTH

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details To be used only as detailed on index 400, for Special Length guardrail posts.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 400
	Specifications	Section 536
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 76-** **GUARDRAIL POSTS- SPECIAL LENGTH** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 76	GUARDRAIL POST - SPECIAL LENGTH	EA		1/1/2010	

536- 82- GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Independent stand alone anchorage to be used between guardrail and a fixed structure.

Related Items **Required** **Recommended**

Forms	**Design**	SBGDRL; SBGuardrail: Summary of Guardrail
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 400, 410, 413, 415
	Specifications	Section 536
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 82-** **GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 82	GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL	EA		1/1/2010	

536- 83- A GUARDRAIL POST REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details To be used in accordance with Index 400.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 536

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 83- A** **GUARDRAIL POST REPLACEMENT** **EA**

A =
1 (Regular)
3 (Steel In Concrete, Regular)
4 (Steel In Asphalt, Regular)
5 (Steel In Soil, Regular)
6 (Wooden In Asphalt, Regular)
7 (Wooden In Soil, Regular)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 83 1	GUARDRAIL POST REPLACEMENT, REGULAR	EA		1/1/2010	

536- 85- AA GUARDRAIL END ANCHORAGE ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.

Related Items **Required** 536- 1 **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications Section 536

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 85- AA** **GUARDRAIL END ANCHORAGE ASSEMBLY** **EA**

AA =
22 (Flared)
24 (Parallel)
25 (Type II)
26 (Type CRT)
27 (Double Face Terminal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0536 85 22	GUARDRAIL END ANCHORAGE ASSEMBLY-FLARED	EA		1/1/2010	
0536 85 24	GUARDRAIL END ANCHORAGE ASSEMBLY-PARALLEL	EA		1/1/2010	
0536 85 25	GUARDRAIL END ANCHORAGE ASSEMBLY-TYPE II	EA		1/1/2010	
0536 85 26	GUARDRAIL END ANCHORAGE ASSEMBLY-TYPE CRT	EA		1/1/2010	
0536 85 27	GUARDRAIL END ANCHORAGE ASSEMBLY-DOUBLE FACE TERMINAL	EA		1/1/2010	

538- 1- GUARDRAIL- RESET

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Consists of the removal of existing guardrail and resetting of the salvaged guardrail along with necessary new materials. Locations of the existing and proposed guardrail must be shown in the plans. Coordinate the use of this item with District Maintenance Office.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail: Summary of Guardrail

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 400

Specifications Section 538

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **538- 1-** **GUARDRAIL- RESET** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0538 1	GUARDRAIL RESET	LF		1/1/2010	

539- 75-ABC GLARE SCREEN

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Material and installation requirements are needed for project specific conditions.

This item is for permanent installations only. For temporary installations (during construction/maintenance contract), see MOT Section 102 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **539- 75-ABC** **GLARE SCREEN** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00
6 (Relocate) BC=00

B = Material
1 (Modular)

C = Height
1 (18")
2 (24")
3 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0539 75113	GLARE SCREEN , F&I, MODULAR, 30"	LF	T	1/1/2010	

539- 80-ABC OPAQUE VISUAL BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

The Designer should coordinate the details on Index 461 with project specific conditions. Payment for barrier includes concrete and reinforcing steel, as shown on design standard.

Non-concrete materials will require details and material specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 461

Specifications

Special Provision available for compensation information

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **539- 80-ABC** **OPAQUE VISUAL BARRIER** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00

B = Material
1 (Concrete)
2 (Fiberglass)*
3 (Aluminum)*

C = Height
1 (2' 3" Height)

Notes *Only concrete option included on design standard

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0539 80111	OPAQUE VISUAL BARRIER, F&I, CONCRETE, 2'3" HT	LF		1/1/2010	

540- HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Future item; refer to developmental item 904-540-xx1**

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **540-** **HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS** **LF**

pending

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

542- 70- BUMPER GUARDS, CONCRETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Parking space bumper, used in rest areas, service plazas, etc. Concrete Bumper guard dimensions are shown on index 300. The Designer should coordinate the design standard and/or plan details as needed. If other materials are acceptable, detail the material requirements in the plans/specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 300

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **542- 70-** **BUMPER GUARDS, CONCRETE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0542 70	BUMPER GUARDS, CONCRETE	EA	T	1/1/2010	

544- 74- AA RELOCATE CRASH CUSHION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Items to be relocated/installed in accordance with Standards and/or manufacturer's instructions.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 544
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 74- AA** **RELOCATE CRASH CUSHION** **EA**

AA = Type
8 (Cat)
9 (Brakemaster)
10 (Dragnet)
13 (React 350)
14 (Quadgard)
17-20 Hold
23 (SCI)
24 (Quest)
25 (HEART)
26 (X-MAS)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0544 74 14	RELOCATE CRASH CUSHION - QUADGUARD	EA		1/1/2010	
0544 74 23	RELOCATE CRASH CUSHION - SCI	EA		1/1/2010	
0544 74 24	RELOCATE CRASH CUSHION - QUEST	EA		1/1/2010	

544- 75- AA CRASH CUSHION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual and Design Standards prior to selecting a specific option. Items are to be installed in accordance with Standards and/or manufacturer's instructions. All items must be listed on QPL, per specifications.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 4
Other
Standards Index No. 430
Specifications Section 544
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 75- AA** **CRASH CUSHION** **EA**

AA =
8 (Cat)*
9 (Brakemaster)*
10 (Dragnet)*
13 (React 350)*
14 (Quadguard)*
16 (Tracc)*
17 (QuadGuard Elite)*
18 (QuadGuard LMC)*
19 (QuadGuard LMA)*
20 (QuadTrend)*
21 (TAU-II)*
22 (Widetracc)*
23 (SCI)*
24 (Quest)*
25 (HEART)*
26 (X-MAS)*
40 (Optional)

Notes *AA=40 (Optional) should be used, unless there is a specific reason why options are limited to a single product. Refer to index 430 for additional information.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0544 75 13	CRASH CUSHION - REACT 350	EA		1/1/2010	
0544 75 14	CRASH CUSHION - QUADGUARD	EA		1/1/2010	
0544 75 21	CRASH CUSHION- TAU-II	EA		1/1/2010	
0544 75 23	CRASH CUSHION - SCI	EA		1/1/2010	
0544 75 24	CRASH CUSHION - QUEST	EA		1/1/2010	
0544 75 26	CRASH CUSHION- X-MAS	EA		1/1/2010	
0544 75 40	CRASH CUSHION - OPTIONAL	EA		1/1/2010	

544- 76- A ATTENUATOR MODULES- SAND FILLED

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **DO NOT OPEN without an approved design**

Details Project specific design will be required.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Section 544
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 76- A** **ATTENUATOR MODULES- SAND FILLED** **EA**

A= Project Number

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

546- 71- RUMBLE STRIP SETS

Unit PS **Accuracy** Per Set **PlanQuantity?** no

Notes

Details

Raised rumble strip SETS shall be constructed at all structures with less than full width shoulders. They will also be constructed at intersection approaches only when specified in the plans. This item is to be used in accordance with Standard Index 518.

Note that thermoplastic sets typically include 4 strips; Asphalt sets include 6 strips. Refer to Index for details.

For ground-in strips, refer to item 546-72-AB.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Ch 2
	Other	
	Standards	Index No. 518
	Specifications	Section 546
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **546- 71-** **RUMBLE STRIP SETS** **PS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0546 71	RUMBLE STRIPS	PS		1/1/2010	

546- 72- AB RUMBLE STRIPS

Unit PM; KM **Accuracy** 1/10 Mile; Kilometer **PlanQuantity?** yes

Notes

Details

Ground-in rumble strips (16" minimum width, 400 mm minimum width) shall be constructed on freeway and other limited access per Index No. 518. Other methods and types of applications shall not be used unless approved in writing by the State Roadway Design Engineer. Approval will be considered only with sufficient documented justification for variance from this standard.
For Raised Rumble Strips, refer to item 546-71-.

Measurement, per specification: The quantity of will be the plan quantity in miles, constructed and accepted. The plan quantity will be determined based on the roadway length minus bridge lengths for each shoulder on which Rumble Strips are to be constructed.

Per specifications, plan quantity will be determined based on the roadway length, minus bridge lengths for each shoulder on which Rumble Strips are to be constructed. (No deduction is made for skip section of skip array.)

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 2

Other

Standards Index No. 518

Specifications Section 546

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **546- 72- AB** **RUMBLE STRIPS** **PM; KM**

A = Type
5 (Ground-In)

B =
1 (16" Min. Width)
0 (Non Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0546 72 50	RUMBLE STRIPS, GROUND-IN, NON STANDARD	PM		1/1/2010	
0546 72 51	RUMBLE STRIPS, GROUND-IN, 16" MIN. WIDTH	PM		1/1/2010	

547- 70- A RIPRAP, FABRIC-FORMED CONCRETE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Future use may require development of specs and/or standards.**

Details Used for specialized fabric riprap; requires Technical Special Provisions. Contact State Drainage office for additional information.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **547- 70- A** **RIPRAP, FABRIC-FORMED CONCRETE** **SY**

A =
1 (8" Filter Points)
2 (10" Filter Points)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0547 70 1	RIPRAP FABRIC-FORMED CONCRETE, 8" FILTER POINTS	SY	T	1/1/2010	
0547 70 2	RIPRAP FABRIC-FORMED CONCRETE, 10" FILTER POINTS	SY	T	1/1/2010	

548- AA-	RETAINING WALL SYSTEM				
	Unit	SF; M2	**Accuracy**	Square Foot; 1/10 Square Meter	**PlanQuantity?** yes

Notes

Details

Approved walls are listed on the Qualified Products List (QPL).

The wall pay area is based on area bounded by coping line, top of leveling pad, begin and end of wall. Barriers and parapets paid for separately (Items 521-8 and 521-6.) The backfill material for the retaining wall volume, as defined in Section 548, is paid as embankment or borrow excavation, as applicable.

For Cast-in-Place walls, refer to design standards and use Concrete (CY) and Reinforcing Steel (LB) items.

*For Permanent-Widening walls, compensation information is needed in the specifications. Coordinate with Specs to modify existing spec.

NOTE: Include item in TRNS*PORT Roadway Category.

Related Items **Required** **Recommended** 521- 6-xxa, or 521-8-xaa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 30

Other

Standards Index No. 5300, 5301

Specifications Section 548

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **548- AA-** **RETAINING WALL SYSTEM** **SF**

AA = Type
12 (Permanent) excluding barrier
13 (Temporary) excluding barrier
14 (Permanent- Widening) attached to existing wall; *see BOE detail

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0548 12	RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER	SF		1/1/2010	
0548 13	RETAINING WALL SYSTEM,TEMPORARY, EXCLUDING BARRIER	SF		1/1/2010	
0548 14	RETAINING WALL SYSTEM, PERMANENT-WIDENING, ATTACHED TO EXISTING WALL	SF		1/1/2010	

550- 10-ABC FENCING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Includes all fence, posts, and incidental materials. Gates to be paid under 550-60-ABC.

Type A= 9 (Special) is used for decorative/wood fencing, other than A, B, or R. Tech Spec and/or plan details required to specify materials, installation, and payment.

Details/Features C=8 (Reset Existing), per the specification, measurement & payment is for "the actual length of existing fence reset, including gates when applicable."

Details/Features C=9 (Special) may be used for Type A or B fence, when special features, other than barbed attachment or coatings are needed. For example, fine mesh added to standard Type B fence, for restricting small critters.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 550- 60-ABC

Forms **Design** SBFN; SBFence; SBFNTA; SBFenceA; SBFNTB; SBFenceB: Summary of

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Ch 2 for Bridge Fencing

Other

Standards Indexes 800, 801, 802, 803, 810, 811, 812

Specifications Section 550

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **550- 10-ABC** **FENCING** **LF**

A = Type
1 (Type A)
2 (Type B)

3 (Type R)
9 (Special) Not Type A, B, or R; C= 8 or 9

B = Nominal Fabric Height
1 (0.0- 5.0' Height) Note: Type A Standard; may be used for other types
2 (5.1- 6.0' Height) Note: Type B Standard; may be used for other types
3 (6.1- 7.0' Height)
4 (7.1- 8.0' Height)
5 (8.1-10.0' Height)

C = Details/Features
0 (Standard features) No coating, barbed wire, or other special features
1 (w/Barbed Wire Attachment), Type B Only
2 (w/Vinyl Coating), Type B Only
3 (Full Enclosure), Type R Only
4 (Partial Enclosure), Type R Only
5 (Vertical) Type R Only
8 (Reset Existing) see detail for measurement
9 (Special Feature) Features), other than coating, barbs, or enclosure

Notes *A= Special for non-standard types (wood fence?)
*C= Special for other than coatings or enclosure
*A or C =9 may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0550 10110	FENCING, TYPE A, 0.0-5.0', STANDARD	LF		1/1/2010	
0550 10118	FENCING, TYPE A, 0.0-5.0', TYPE A STANDARD, RESET EXISTING	LF		1/1/2010	
0550 10120	FENCING, TYPE A, 5.1-6.0, STANDARD	LF		1/1/2010	
0550 10130	FENCING, TYPE A, 6.1-7.0, STANDARD	LF		1/1/2010	
0550 10140	FENCING, TYPE A, 7.1-8.0', STANDARD	LF		1/1/2010	
0550 10150	FENCING, TYPE A, 8.1-10.0', STANDARD	LF		1/1/2010	
0550 10210	FENCING, TYPE B, 0.0-5.0', STANDARD FEATURES	LF		1/1/2010	
0550 10212	FENCING, TYPE B, 0.5-5.0, W/ VINYL COATING	LF		1/1/2010	
0550 10218	FENCING, TYPE B, 0.0-5.0', RESET EXISTING	LF		1/1/2010	
0550 10220	FENCING, TYPE B, 5.1-6.0, STANDARD	LF		1/1/2010	
0550 10221	FENCING, TYPE B, 5.1-6.0, W/ BARB WIRE ATTMT	LF		1/1/2010	
0550 10222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COATING	LF		1/1/2010	
0550 10228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF		1/1/2010	
0550 10229	FENCING, TYPE B, 5.1-6.0, SPECIAL FEATURES	LF		1/1/2010	
0550 10230	FENCING, TYPE B, 6.1-7.0', STANDARD	LF		1/1/2010	
0550 10231	FENCING, TYPE B, 6.1-7.0, W/ BARB WIRE ATTMT	LF		1/1/2010	
0550 10232	FENCING, TYPE B, 6.1-7.0, W/ VINYL COATING	LF		1/1/2010	
0550 10238	FENCING, TYPE B, 6.1-7.0, RESET EXISTING	LF		1/1/2010	
0550 10240	FENCING, TYPE B, 7.1-8.0', STANDARD	LF		1/1/2010	

0550 10248	FENCING, TYPE B, 7.1-8.0, RESET EXISTING	LF		1/1/2010
0550 10250	FENCING, TYPE B, 8.1-10.0', STANDARD FEATURES	LF		1/1/2010
0550 10251	FENCING, TYPE B, 8.1-10.0', WITH BARBED WIRE ATTMT	LF		1/1/2010
0550 10259	FENCING, TYPE B, 8.1-10.0', SPECIAL	LF		1/1/2010
0550 10315	FENCING, TYPE R, 0-5.0', VERTICAL	LF		1/1/2010
0550 10325	FENCING, TYPE R, 5.1-6.0', VERTICAL	LF		1/1/2010
0550 10335	FENCING, TYPE R, 6.1-7.0', VERTICAL	LF		1/1/2010
0550 10343	FENCING, TYPE R, 7.1-8.0, W/FULL ENCLOSURE	LF		1/1/2010
0550 10344	FENCING, TYPE R, 7.1-8.0, W / PARTIAL ENCLOSURE	LF		1/1/2010
0550 10353	FENCING, TYPE R, 8.1 - 10.0', WITH FULL ENCLOSURE	LF		1/1/2010
0550 10354	FENCING, TYPE R, 8.1-10.0', WITH PARTIAL ENCLOSURE, TYPE R ONLY	LF		1/1/2010
0550 10918	FENCING, SPECIAL TYPE, 0.0-5.0', RESET EXISTING	LF	T	1/1/2010
0550 10919	FENCING, SPECIAL TYPE, 0.0-5.0', SPECIAL FEATURES	LF	T	1/1/2010
0550 10929	FENCING, SPECIAL TYPE, 5.1-6.0', SPECIAL FEATURES	LF	T	1/1/2010
0550 10938	FENCING, SPECIAL TYPE, 6.1-7.0', RESET EXISTING	LF	T	1/1/2010
0550 10948	FENCING, SPECIAL TYPE, 7.1-8.0', RESET EXISTING	LF	T	1/1/2010
0550 10959	FENCING, SPECIAL TYPE, 8.1-10.0', SPECIAL FEATURES	LF	T	1/1/2010

550- 60-ABC FENCE GATE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Fence to be installed in accordance with standards, Index Nos. 800-812.

Special: Tech Spec and/or plan details required to specify materials, installation, and payment. Do not use "special" item for type A, B, or R fencing.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 550-10-ABC

Forms **Design** SBFN; SBFence; SBFNTA; SBFenceA; SBFNTB; SBFenceB: Summary of

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards Indexes 800, 801, 802, 803, 810, 811, 812

Specifications Section 550

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **550- 60-ABC** **FENCE GATE** **EA**

A = Type
1 (Type A)
2 (Type B)
9 (Special) *Not Type A or B

B = Type
1 (Single)
2 (Double)
3 (Sliding / Cantilever)

C = Size of Opening
1 (0-6.0’ Opening)
2 (6.1-12.0’ Opening)
3 (12.1-18.0’ Opening)
4 (18.1-20.0’ Opening)
5 (20.1-24.0’ Opening)
6 (24.1-30.0’ Opening)
7 (Greater than 30’ Opening)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0550 60111	FENCE GATE, TYPE A, SINGLE, 0-6.0' OPENING	EA		1/1/2010	
0550 60112	FENCE GATE, TYPE A, SINGLE, 6.1-12.0' OPENING	EA		1/1/2010	
0550 60122	FENCE GATE, TYPE A, DOUBLE, 6.1-12.0' OPENING	EA		1/1/2010	
0550 60123	FENCE GATE, TYPE A, DOUBLE, 12.1-18.0' OPENING	EA		1/1/2010	
0550 60124	FENCE GATE, TYPE A, DOUBLE, 18.1-20.0' OPENING	EA		1/1/2010	
0550 60125	FENCE GATE, TYPE A, DOUBLE, 20.1-24.0' OPENING	EA		1/1/2010	
0550 60126	FENCE GATE, TYPE A, DOUBLE, 24.1-30.0' OPENING	EA		1/1/2010	
0550 60127	FENCE GATE, TYPE A, DOUBLE, GREATER THAN 30' OPENNING	EA		1/1/2010	
0550 60134	FENCE GATE, TYPE A, SLIDING/CANTILEVER, 18.1-20.0' OPENING	EA		1/1/2010	

0550 60211	FENCE GATE, TYPE B, SINGLE, 0- 6.0' OPENING	EA		1/1/2010
0550 60212	FENCE GATE, TYPE B, SINGLE, 6.1 - 12.0' OPENING	EA		1/1/2010
0550 60213	FENCE GATE, TYPE B, SINGLE, 12.1-18.0' OPENING	EA		1/1/2010
0550 60214	FENCE GATE, TYPE B, SINGLE, 18.1-20.0' OPENING	EA		1/1/2010
0550 60222	FENCE GATE, TYPE B, DOUBLE, 6.1-12.0' OPENING	EA		1/1/2010
0550 60223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA		1/1/2010
0550 60224	FENCE GATE, TYPE B, DOUBLE, 18.1-20.0' OPENING	EA		1/1/2010
0550 60225	FENCE GATE , TYPE B, DOUBLE, 20.1-24' OPENING	EA		1/1/2010
0550 60226	FENCE GATE , TYPE B, DOUBLE, 24.1-30.0' OPENING	EA		1/1/2010
0550 60227	FENCE GATE, TYPE B, DOUBLE, GREATER THAN 30' OPENNING	EA		1/1/2010
0550 60232	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 6.1-12' OPENING	EA		1/1/2010
0550 60233	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 12.1-18' OPENING	EA		1/1/2010
0550 60234	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 18.1-20.0' OPENING	EA		1/1/2010
0550 60235	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 20.1-24' OPENING	EA		1/1/2010
0550 60236	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24.1-30' OPENING	EA		1/1/2010
0550 60237	FENCE GATE, TYPE B, SLIDING/CANTILEVER, GREATER THAN 30' OPENNING	EA		1/1/2010
0550 60914	FENCE GATE, SPECIAL TYPE, SINGLE, 18.1-20' OPENING	EA	T	1/1/2010
0550 60927	GATE, SPECIAL TYPE, DOUBLE, >30' OPENING	EA	T	1/1/2010
0550 60934	FENCE GATE, SPECIAL TYPE, SLIDING/CANTILEVER, 18.1-20' OPENING	EA	T	1/1/2010
0550 60935	FENCE GATE, SPECIAL TYPE, SLIDING/CANTILEVER, 20.1-24' OPENING	EA	T	1/1/2010

555- 1- A DIRECTIONAL BORE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

Per Specification, Bundled products in a single bore will be paid as a single bore, based on the required drill bit head or back reamer head size. Separate payment shall not be made

for individual products in a bundle.

This item should be loaded into the category for which the item is used (Roadway, Lighting, Signals, etc.) The Item may appear on multiple categories, as needed.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 555

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **555- 1- A** **DIRECTIONAL BORE** **LF**

A = Diameter Of Pipe/Conduit*
1 (Less Than 6")
2 (6" to <12")
3 (12" to <18")
4 (18" to <24")
5 (24" to <36")
6 (36" to <48")
7 (48" to <60")

Notes Additional Ranges At 12" Increments
*Refer to detail information when working with bundled products

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0555 1 1	DIRECTIONAL BORE, LESS THAN 6"	LF		1/1/2010	
0555 1 2	DIRECTIONAL BORE, 6" TO < 12"	LF		1/1/2010	
0555 1 3	DIRECTIONAL BORE, 12" TO < 18"	LF		1/1/2010	
0555 1 4	DIRECTIONAL BORE, 18" TO < 24"	LF		1/1/2010	
0555 1 5	DIRECTIONAL BORE, 24" TO < 36"	LF		1/1/2010	
0555 1 6	DIRECTIONAL BORE, 36" TO < 48"	LF		1/1/2010	
0555 1 7	DIRECTIONAL BORE, 48" TO < 60"	LF		1/1/2010	

556- 1- A JACK AND BORE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for

each location/crossing.

This item should be loaded into the category for which the item is used (Roadway, Lighting, Signals, etc.) The Item may appear on multiple categories, as needed.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 556

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **556- 1- A** **JACK AND BORE** **LF**

AA = Diameter Of Casing
1 (<6”)
2 (6” to < 12”)
3 (12” to < 18”)
4 (18” to < 24”)
5 (24” to < 36”)
6 (36” to < 48”)
7 (48” to < 60”)
8 (60” to < 72")
9 (72" to < 84")
10 (84" to < 96")
11 (96" to < 108")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0556 1 1	JACK AND BORE, CASING DIAMETER <6"	LF		1/1/2010	
0556 1 2	JACK AND BORE, CASING DIAMETER 6"TO<12"	LF		1/1/2010	
0556 1 3	JACK AND BORE, CASING DIAMETER 12"TO<18"	LF		1/1/2010	
0556 1 4	JACK AND BORE, CASING DIAMETER 18"TO<24"	LF		1/1/2010	
0556 1 5	JACK AND BORE, CASING DIAMETER 24"TO<36"	LF		1/1/2010	
0556 1 6	JACK AND BORE, CASING DIAMETER, 36" TO <48"	LF		1/1/2010	

0556 1 7	JACK AND BORE, CASING DIAMETER 48"TO<60"	LF	1/1/2010
0556 1 8	JACK AND BORE, CASING DIAMETER 60"TO<72"	LF	1/1/2010
0556 1 9	JACK AND BORE, CASING DIAMETER 72"TO<84"	LF	1/1/2010
0556 1 10	JACK AND BORE, CASING DIAMETER 84"TO<96"	LF	1/1/2010
0556 1 11	JACK AND BORE, CASING DIAMETER 96"TO<108"	LF	1/1/2010

557- 1- A VIBRATORY PLOWING

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details Effective January 03: Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

This item should be loaded into the category for which the item is used (Roadway, Lighting, Signals, etc.) The Item may appear on multiple categories, as needed.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 557

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **557- 1- A** **VIBRATORY PLOWING** **LF**

A = Diameter Of Casing
1 (< 6”)
2 (6” to < 12”)
3 (12” to < 18”)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

560- 1- PAINTING STRUCTURAL STEEL- REHAB

Unit LS/TN; LS/MT **Accuracy** Lump Sum (Ton); Lump Sum (Metric Ton) **PlanQuantity?** yes

Notes **Specification and pay item for rehab painting valid through 6-30-10. New 561 pay item and specification valid for July 2010.**

Details Intended for rehabilitation projects. For new bridges, the cost of painting is included in the cost of the structural steel. Do not include quantities in the plans. The weight of the steel to be painted is for estimating purposes only.

Tech Spec required for Rehab painting (Projects let through 6/2010).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications Section 560

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **560- 1-** **PAINTING STRUCTURAL STEEL- REHAB** **LS/TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0560 1	PAINTING STRUCTURAL STEEL	LS	T	1/1/2010	6/30/2010

561- 1- COATING EXISTING STRUCTURAL STEEL

Unit LS/TN; LS/MT **Accuracy** Lump Sum (Ton); Lump Sum (Metric Ton) **PlanQuantity?** yes

Notes **New pay items and specifications implemented for July 2010 letting.**

Details Coordinate the use of this item with the District Materials Office and the State Materials Office.

Consists of removing and replacing the existing coating, or using an overcoating system. Do not include quantities in the plans. The weight of the steel to be painted is for estimating purposes only.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **561- 1-** **COATING EXISTING STRUCTURAL STEEL** **LS/TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0561 1	COATING EXISTING STRUCTURAL STEEL	LS		7/1/2010	
0561 1	COATING EXISTING STRUCTURAL STEEL	LS		7/1/2010	

563- A ANTI-GRAFFITI COATING

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes **Pending specification change for July 2008: Measurement to be made by plan quantity.**

Details Coordinate the use of this item with District Maintenance Office. Consists of furnishing and applying anti-graffiti coating to the surfaces indicated in the plans. The work also includes surface preparations prior to application of the coating. All coatings are to be clear, unless otherwise specified in the plans, or approved by the Engineer. Pay Item specifies whether material is sacrificial or non-sacrificial.
Measurement is based on the projected area of the wall (height x length) or surface, with no additional allowance for surface texture.
****
For projects let before 7/2008, measurement/payment will be based on measured area, as indicated above.
For projects let 7/2008 and later, measurement will be based on plan quantity, as indicated above.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications Section 563
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **563- A** **ANTI-GRAFFITI COATING** **SF**

A =
3 (Sacrificial)
4 (Non – Sacrificial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0563 3	ANTI-GRAFFITI COATING, SACRIFICIAL	SF		1/1/2010	
0563 4	ANTI-GRAFFITI COATING, NON-SACRIFICIAL	SF		1/1/2010	

570- 1- A PERFORMANCE TURF

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** Yes

Notes **Effective July 2010, Mowing is paid separately. Refer to Estimates/Roadwya Design Bulletin and specifications Section 107 for details.**

Details Consists of establishing a stand of grass on slopes, shoulders, or other areas by seeding (includes seeding, seeding & mulching, hydroseeding, bonded fiber matrix, or any combination), or sodding, in accordance with Section 570.
Coordinate the use of this item with Sections 104, 107, 162, and 580.

Through June 2010 lettings: This item includes the mowing of all areas, including undisturbed areas, within the project limits, as noted in the plans. DO NOT use item 104-4 when this item is used. Payment for all mowing is incidental to the turf payment.

Effective July 2010 letting: Litter Removal and Mowing are paid separately under Section 107.

Per Section 570 specification, the Statewide Disputes Review Board specifications must be included on projects with this item.

SHOULDER SODDING: When Performance Turf is used in accordance with Index 105-Treatment II, separate payment for Finished Soil Layer should also be included. Refer to specification section 162 and index no. 105 for additional information.

Related Items **Required** **Recommended** 162-1 Prepared Soil Layer

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 105 for shoulder sodding and turf on existing facilities

Specifications Section 570

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **570- 1- A** **PERFORMANCE TURF** **SY**

A= Type
1 *leave secondary description blank- Contractor's Option
2 (Sod)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0570 1 1	PERFORMANCE TURF	SY		1/1/2010	
0570 1 2	PERFORMANCE TURF, SOD	SY		1/1/2010	

571- 1- AB PLASTIC EROSION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details

Geosynthetic rolled erosion control product that retains soil, moisture, and seed; promotes vegetative growth while preventing erosion in ditches, channels, and spillways. to be used where conditions prevent vegetation that lasts past a single growing season.

Design standard 199 lists standard criteria/material properties. Plans/Specs need to detail installation requirements and compensation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 199

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **571- 1- AB** **PLASTIC EROSION MAT** **SY**

A =Application
1 (TRM) “Turf Reinforcement Mat”

B =Type
1 (Type 1)
2 (Type 2)
3 (Type 3)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0571 1 11	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1	SY		1/1/2010	
0571 1 12	PLASTIC EROSION MAT, TRM, TYPE 2	SY		1/1/2010	
0571 1 13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	SY		1/1/2010	

580- 1- A LANDSCAPE COMPLETE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

This item is for the complete installation of plants, in accordance with Specification Section 580, including all incidental work. The designer should coordinate plan details with installation requirements shown in the specifications.

Through June 2010: Mowing included as part of the landscape work will be identified in the contract documents. If mowing is required outside of the landscape areas, use pay item 104-4, unless 570-1-A is included.

July 2010 and later: Mowing included as part of the landscape work will be identified in the contract documents. If mowing is required outside of the landscape areas, use pay item 107-2.

Small plants includes all ground covers, shrubs to less than 7 gallon, trees to less than 7 gallon, palms clustering type less than 6 foot overall height, cycads to less than 7 gallon. Incidentals, as shown in the landscaping plans, should be included on the tabulation sheet for payment along with small plans.

Large plants include shrubs 7 gallon or greater, trees 7 gallon or greater, all palms single trunk, palms clustering type 6 foot overall height and greater, cycads 7 gallon or greater, all Sabal palms (aka Sabal palmetto, cabbage palm, state tree)

Refer to the latest edition of the Florida Grades and Standards for Nursery Plants for classification. All plants must be detailed in the plans in accordance with Volume 2, Chapter 26 of the PPM. See also PPM Vol 1, Chapter 9.

The computation book will use form 70-050-05 Lump Sum Quantities. On the form, refer to the plans tabulation sheet for calculations; do not repeat tabulation sheet information on the comp book form.

All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

Related Items **Required** **Recommended**

Forms **Design** SBTBLD: Tabulation of Quantities- Landscape

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 9; Vol 2, Chapter 26

Other

Standards

Specifications Section 580

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0600 Landscaping

Status

Struct. **580- 1- A** **LANDSCAPE COMPLETE** **LS/LS**

A= Plant Size
1 (Small Plants) Includes incidental landscape work
2 (Large Plants)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0580 1 1	LANDSCAPE COMPLETE- SMALL PLANTS	LS		1/1/2010	
0580 1 2	LANDSCAPE COMPLETE- LARGE PLANTS	LS		1/1/2010	

590- 70- IRRIGATION SYSTEM

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBTBLD: Tabulation of Quantities- Landscape

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0600 Landscaping

Status

Struct. **590- 70-** **IRRIGATION SYSTEM** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0590 70	IRRIGATION SYSTEM	LS	T	1/1/2010	

604- 3- A TIMING IMPLEMENTATION

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes **Contact the State Traffic Ops office prior to using this item. BOE Details needed.**

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 3- A** **TIMING IMPLEMENTATION** **PI**

A = Controller Type
1 (Controller)
2 (Controller And Coordination Unit)
3 (Master Clock Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0604 3 1	TIMING IMPLEMENTATION, CONTROLLER	PI	T	1/1/2010	
0604 3 2	TIMING IMPLEMENTATION, CONTROLLER & COORDINATION UNIT	PI	T	1/1/2010	
0604 3 3	TIMING IMPLEMENTATION, MASTER CLOCK UNIT	PI	T	1/1/2010	

630- 1- AB SIGNALS- CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as 'Underground.' 'Underpavement' should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. EXISTING PAVEMENT.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS for Items 630- 1- 11 thru 630- 1- 22
	Standards	Index No. 17721
	Specifications	Section 630 Min Specs: Section A630
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **630- 1- AB** **SIGNALS- CONDUIT** **LF**

A = Operation
1 (Furnish & Install)

B = Conduit Installation Type
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: Only when sawcutting is necessary for location under EXISTING PAVEMENT
4 (Underground - Jacked)
5 (Bridge Mount)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0630 1 11	CONDUIT - SIGNALS, FURNISH & INSTALL, ABOVEGROUND	LF		1/1/2010	
0630 1 12	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND	LF		1/1/2010	
0630 1 13	CONDUIT - SIGNALS, FURNISH & INSTALL, SAWCUT & PLACE UNDER EXISTING PAVEMENT	LF		1/1/2010	
0630 1 14	CONDUIT, SIGNALS, F & I, UNDERGROUND - JACKED	LF		1/1/2010	
0630 1 15	CONDUIT, SIGNALS, F & I, BRIDGE MOUNT	LF		1/1/2010	
0630 1 24	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND-JACKED	LF		1/1/2010	

632- 6- A SIGNALS- CABLE OUTSIDE OF INTERSECTION

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum

Specifications for Traffic Control Signal Devices, as applicable.

Use for runs to flashing beacon, signs, etc. beyond the normal limits of the intersection. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding. Use item 632- 7- (2632- 7-) for cable within the intersection.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17727

Specifications Min Specs: Section A632

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 6- A** **SIGNALS- CABLE OUTSIDE OF INTERSECTION** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0632 6 1	CABLE - SIGNAL, FURNISH & INSTALL	LF		1/1/2010	
0632 6 3	CABLE - SIGNAL, INSTALL	LF		1/1/2010	

632- 7- A SIGNALS- CABLE WITHIN INTERSECTION

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding, within the normal limits of the intersection. Consider 632- 6- (2632- 6-) for runs outside the limits of the intersection.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17727

Specifications Section 632
Min Specs: Section A632

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 7- A** **SIGNALS- CABLE WITHIN INTERSECTION** **PI**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0632 7 1	CABLE, SIGNAL, FURNISH & INSTALL	PI		1/1/2010	
0632 7 4	CABLE SIGNAL, ADJUST	PI		1/1/2010	

632- 8-ABC SIGNALS- INTERCONNECT CABLE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

INSTALL: To be used ONLY when the item is to be furnished by the Department or other maintaining agency. Plans or specs should clearly identify the item(s) to be installed, pick-up/delivery instructions, as well as installation instructions. Payment includes any incidentals necessary (furnished by the Contractor) for a complete installation.

RELOCATE: Plans or specs should clearly identify the item and initial/final locations. As needed, detail incidental items to be furnished by the Contractor for a complete installation. Clearly identify conditions under which item replacement (damaged by contractor) is needed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Normally requires SHOP DRAWINGS for Items 632- 8-111 thru 632- 8-131, 632- 8-211 thru 632-8-222, and 632- 8-311 thru 632- 8-422

Standards Index No. 17733

Specifications Section 632
Min Specs: Section A632

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 8-ABC** **SIGNALS- INTERCONNECT CABLE** **LF**

A = Number Of Pairs
1 (to Be Determined By Contractor)
2 (1- 25)
3 (26- 50)
4 (51-100)
5 (101-150)

B = Operation
1 (Furnish & Install)
3 (Install)
4 (Relocate) A=1, C=0
For remove, see item 690-91

C = Type Of Interconnect Cable Installation
0 used for relocate item; details in plans
1 (Aerial)
2 (Underground)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0632 8112	CABLE, INTERCONNECT, PAIRS - DETERMINED BY CONTRACTOR, F&I, UNDER GROUND	LF		1/1/2010	
0632 8131	CABLE, INTERCONNECT, PAIRS - DETERMINED BY CONTRACTOR, INSTALL, AERIAL	LF		1/1/2010	
0632 8140	CABLE, INTERCONNECT, PAIRS - DETERMINED BY CONTRACTOR, RELOCATE	LF		1/1/2010	
0632 8211	CABLE, INTERCONNECT, 1- 25, F&I, AERIAL	LF		1/1/2010	
0632 8212	CABLE, INTERCONNECT, 1-25 PAIRS, F&I, UNDERGROUND	LF		1/1/2010	
0632 8231	CABLE, INTERCONNECT, 1-25 PAIRS, INSTALL, AERIAL	LF		1/1/2010	
0632 8232	CABLE, INTERCONNECT, 1-25 PAIRS, INSTALL, UNDERGROUND	LF		1/1/2010	
0632 8311	CABLE, INTERCONNECT, 26-50 PAIRS, F&I, AERIAL	LF		1/1/2010	

0632 8312	CABLE, INTERCONNECT, 26-50 PAIRS, F&I, UNDERGROUND	LF	1/1/2010
0632 8412	CABLE, INTERCONNECT, 51-100 PAIRS, F&I, UNDERGROUND	LF	1/1/2010

633- 1-ABC SIGNALS- FIBER OPTIC CABLE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.
****
REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless otherwise indicated in the plans or specs.
REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **633- 1-ABC** **SIGNALS- FIBER OPTIC CABLE** **LF**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)
4 (97 to 144)

Notes *Remove item may require plan details and/or tech spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 1111	SIGNALS FIBER OPTIC CABLE, F&I, OVERHEAD,2-12 FIBERS	LF	T	1/1/2010	
0633 1112	SIGNALS FIBER OPTIC CABLE, F&I, OVERHEAD,13-48 FIBERS	LF	T	1/1/2010	
0633 1113	SIGNALS FIBER OPTIC CABLE, F&I, OVERHEAD,49-96 FIBERS	LF	T	1/1/2010	
0633 1121	SIGNALS FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	T	1/1/2010	
0633 1122	SIGNALS FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	T	1/1/2010	
0633 1123	SIGNALS FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	T	1/1/2010	
0633 1412	SIGNALS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 13-48	LF	T	1/1/2010	
0633 1422	SIGNALS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 13-48	LF	T	1/1/2010	
0633 1423	SIGNALS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 49-96	LF	T	1/1/2010	
0633 1600	SIGNALS FIBER OPTIC CABLE, REMOVE	LF	T	1/1/2010	

633- 2- AB SIGNALS- FIBER OPTIC CONNECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected.
Type of connection must be noted in the plans.

Related Items **Required** **Recommended** 783-3

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 2- AB** **SIGNALS- FIBER OPTIC CONNECTION** **EA**

New items for Signals use, pending spec approval.

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Splice)
2 (Termination)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 2 31	SIGNALS- FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	T	1/1/2010	
0633 2 32	SIGNALS- FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	T	1/1/2010	

633- 3- AB SIGNALS- FIBER OPTIC CONNECTION HARDWARE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cord/cable.

Related Items **Required** **Recommended** 783-2

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 3- AB** **SIGNALS- FIBER OPTIC CONNECTION HARDWARE** **EA**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B=Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Preterminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Preterminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)
8 (Patch Cord)* Tech Spec needed; see BOE detail

Notes *B=8: Tech Spec needed. Coordinate the use of this item with Traffic Ops Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 3 11	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	T	1/1/2010	
0633 3 14	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA	T	1/1/2010	
0633 3 15	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	T	1/1/2010	
0633 3 16	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	T	1/1/2010	
0633 3 17	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	T	1/1/2010	
0633 3 46	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL, FIELD TERMINATED	EA	T	1/1/2010	

633- 4-1AB **SIGNALS FIBER OPTIC CONDUIT**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For fiber optic cable and Signals devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 4-1AB** **SIGNALS FIBER OPTIC CONDUIT** **LF**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

Notes *Special to be used only with approval of the Traffic Ops Office.
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 5- A **SIGNALS- PULL BOX FOR FIBER OPTIC**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specificaion for size, materials, and other details for box.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 5- A** **SIGNALS- PULL BOX FOR FIBER OPTIC** **EA**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 6- A SIGNALS SPLICE BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specificaion for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 6- A** **SIGNALS SPLICE BOX FOR FIBER OPTIC** **EA**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 7- A SIGNALS PULL AND JUNCTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details

For use on Signals projects. To be used for non-fiber optic wiring needs (power, communication, etc for Signals systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
****
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 7- A** **SIGNALS PULL AND JUNCTION BOX** **EA**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
7 (Remove and Stockpile)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 8- A	**SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE**				
	Unit	LF; M1	**Accuracy**	Linear Foot; 1/10 Meter	**PlanQuantity?** no
Notes	**New items for Signals use, pending spec approval.**				
Details	For use on Signals projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cable. Record the total length for payment under this pay item. Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.				
Related Items	**Required**		**Recommended**		
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet			
	Construction	Refer to Comp Book			
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.			
	Construction				
References	**PPM Chapter**				
	Other				
	Standards				
	Specifications				
	Prep & Doc Manual Chapter(s)				

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 8- A** **SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE** **LF**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)

3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 9- AB	**SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT**		
	Unit EA	**Accuracy** Each	**PlanQuantity?** no
Notes	**New items for Signals use, pending spec approval.**		
Details	For use on Signals projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that cane be used together to determine the location of the underground utilities and other objects. Special configuration and/or installation details should be detailed in the plans on a project-by project basis. Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing Signals boxes within project limits. NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the Signals conduit price, per specifications.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet	
	Construction		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 9- AB** **SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT EA**

New items for Signals use, pending spec approval.

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Equipment Type
1 (Transmitter)
2 (Receiver)

3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633-ABC- D	**SIGNALS- FIBER OPTIC CABLE**		
	Unit LF; M1	**Accuracy** Linear Foot; 1/10 Meter	**PlanQuantity?** no
Notes	**Valid through ????, pending implementation of new Section 633 specification.**		
Details	This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet	
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other	Normally requires SHOP DRAWINGS	
	Standards		
	Specifications		
		Plan Details and/or Technical Specifications required	
	Prep & Doc Manual Chapter(s) 7, 13		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633-ABC- D** **SIGNALS- FIBER OPTIC CABLE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

B = Type Of Interconnect Cable Installation
1 (Aerial)
2 (Underground)
3 (Drop)

C = Type Of Fiber
1 (Single Mode)
2 (Multi Mode)
3 (Composite)

D = Number Of Fibers In Cable
1 (1 - 25)
2 (26 - 50)

3 (51 - 100)
4 (101 - 150)
5 (151 - 200)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633111 1	CABLE FIBER OPTIC, F&I, 1- 25PR, AERIAL, SINGLE	LF	T	1/1/2010	
0633111 3	CABLE FIBER OPTIC, F&I, 51-100PR, AERIAL, SINGLE MODE	LF	T	1/1/2010	
0633113 2	CABLE FIBER OPTIC, F&I, 26- 50 PR, AERIAL, COMPOSITE	LF	T	1/1/2010	
0633121 1	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 1- 25 PR	LF	T	1/1/2010	
0633121 2	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 26 - 50PR	LF	T	1/1/2010	
0633121 3	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 51-100 PR	LF	T	1/1/2010	
0633121 4	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 101-150 PR	LF	T	1/1/2010	
0633122 1	CABLE - FIBER OPTIC, F&I, UNDERGROUND, MULTI MODE,1- 25 PR	LF	T	1/1/2010	
0633123 1	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 1 - 25 PR	LF	T	1/1/2010	
0633123 2	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 26- 50 PR	LF	T	1/1/2010	
0633123 3	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 51-100 PAIR	LF	T	1/1/2010	
0633131 1	CABLE FIBER OPTIC, F&I, 1- 25 PR, DROP, SINGLE MODE	LF	T	1/1/2010	
0633131 3	CABLE -FIBER OPTIC, F&I, DROP, SINGLE MODE, 51 - 100 PR	LF	T	1/1/2010	
0633132 1	CABLE -FIBER OPTIC, F&I, DROP, MULTI MODE, 1 - 25 PR	LF	T	1/1/2010	
0633133 1	CABLE FIBER OPTIC, F&I, DROP, COMPOSITE,1-25	LF	T	1/1/2010	
0633133 2	CABLE FIBER OPTIC, F&I, DROP, COMPOSITE, 26-50	LF	T	1/1/2010	
0633313 2	CABLE -FIBER OPTIC, INSTALL, AERIAL, COMPOSITE, 26 - 50 PR	LF	T	1/1/2010	
0633421 1	CABLE - FIBER OPTIC, RELOCA, UNDERGROUND, SGL MODE, 1-25 PR	LF	T	1/1/2010	
0633422 1	CABLE - FIBER OPTIC, RELOCA, UNDERGROUND, MULTI MODE, 1-25 PR	LF	T	1/1/2010	
0633431 1	SIGNALS - FIBER OPTIC CABLE, RELOCA, DROP, SINGLE MODE,1-25 PR	LF	T	1/1/2010	

634- 4-ABC SIGNALS- SPAN WIRE ASSEMBLY

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes **Refer to Estimates Bulletin and Roadway Design Bulletin**

Details This pay item is for traffic signals and traffic control devices only.

For projects let through June 2009, Items for two wire and three wire are valid. Projects may be updated to use Single Point and Two Point pay item descriptions, when changes do not adversely affect production.

For projects let July 2009 and later, use the single or two point attachment type pay items, as applicable. (Estimates Bulletin 09-01)

Perpendicular spans, box spans or drop box spans shall be used for all signal span wire assemblies. Diagonal span assemblies shall only be used for flashing beacon installations. (2009 PPM- Plans Preparation Manual, Design Bulletin 09-01; Vol 1, Ch 7.4.18)

Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.

Install Span wire in accordance with Design Standards. For minor installation changes, note details in the plans with standard span type.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Ch 7.4.18
	Other	Normally requires SHOP DRAWINGS for Items 634- 4-111 thru 634- 4-311
	Standards	Index No. 17727
	Specifications	Section 634
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 4-ABC** **SIGNALS- SPAN WIRE ASSEMBLY** **PI**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) FDOT furnished
4 (Adjust)
Remove: Use item 690-80

B = Type Assembly
0 (One Wire) **5/22/08: effective date pending. 1-12-09: Not opened; see Estimates Bulletin**
1 (Two Wire) valid through 6-30-2009
2 (Three Wire) valid through 6-30-2009

B= Attachment Type
4 (Single Point) effective July 2009, or earlier
5 (Two Point) effective July 2009, or earlier

C = Type Span
1 (Perpendicular)
2 (Diagonal) see details above; flashing beacon installations only
3 (Box)
4 (Other - As Shown In Plans) Details required for approved design variances

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 4141	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, PERPENDICULAR	PI		1/1/2010	
0634 4142	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, DIAGONAL	PI		1/1/2010	
0634 4143	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, BOX	PI		1/1/2010	
0634 4151	SPAN WIRE ASSEMBLY, F&I, TWO POINT, PERPENDICULAR	PI		1/1/2010	
0634 4152	SPAN WIRE ASSEMBLY, F&I, TWO POINT, DIAGONAL	PI		1/1/2010	
0634 4153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI		1/1/2010	
0634 4154	SPAN WIRE ASSEMBLY, F&I, TWO POINT, OTHER TYPE	PI	D	1/1/2010	
0634 4341	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, PERPENDICULAR	PI		1/1/2010	
0634 4342	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, DIAGONAL	PI		1/1/2010	
0634 4343	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, BOX SPANS	PI		1/1/2010	
0634 4344	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, OTHER SPAN TYPE	PI	D	1/1/2010	
0634 4351	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, PERPENDICULAR	PI		1/1/2010	
0634 4352	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, DIAGONAL	PI		1/1/2010	
0634 4353	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, BOX SPANS	PI		1/1/2010	
0634 4354	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, OTHER SPAN TYPE	PI	D	1/1/2010	
0634 4453	SPAN WIRE ASSEMBLY,ADJUST, TWO POINT, BOX	PI		1/1/2010	

634- 5- A SIGNALS- FIBERGLASS INSULATOR

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Fiberglass Insulators are to be used on span wires located within 6 feet of overhead electric power lines. Detail length of each insulator in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications Section 634

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 5- A** **SIGNALS- FIBERGLASS INSULATOR** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 5 1	FIBERGLASS INSULATOR, FURNISH & INSTALL	LF	D	1/1/2010	

634- 6- A SIGNALS- MESSENGER WIRE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17356, 17727

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 6- A** **SIGNALS- MESSENGER WIRE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 6 1	MESSENGER WIRE, F&I	LF	T	1/1/2010	

634- 7- SIGNALS- CABLE, ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Tech Spec or Plan details to clearly define necessary adjustments to existing span wire assembly. DO NOT USE this item for Maintenance of Traffic adjustments. (Adjustment of new assemblies is incidental to the furnish/install item.)

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 7-** **SIGNALS- CABLE, ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 7	ADJUST CABLE- SPAN WIRE ASSEMBLY	EA	T	1/1/2010	

635- 1- AB **SIGNALS- PULL & JUNCTION BOXES**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

NOT TO BE USED FOR ITS Projects. Refer to 780 items.
Use in accordance with Section 635 of the specifications.

Special (B=6): Detail the size, shape, and material properties in the plans or specifications. Coordinate with Traffic Operations, for approved products (APL).

Install (A=3): Item furnished by maintaining agency. Plan details required to inform contractor how to obtain pull & junction box. Include Agncy name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

Relocate (A=4): When a box is to be relocated, specs or plan details should include the removal, protection/relocation, and reinstallation- in accordance with the specs & standards. Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS for Items 635- 1- 11 thru 635- 1- 23, and 635- 1- 34

Standards Index No. 17500, 17503, 17733
(Index No. 17503 valid through July 2009)

Specifications Min Specs: Section A635

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **635- 1- AB** **SIGNALS- PULL & JUNCTION BOXES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

4 (Relocate) B=0

B = Type Of Box
1 (Pull Box)
2 (Aerial Junction Box)
3 (Mounted Junction Box)
5 (Fiber Optics)
6 (Special)*

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0635 1 11	PULL & JUNCTION BOXES, F&I, PULL BOX	EA		1/1/2010	
0635 1 12	PULL & JUNCTION BOXES, F&I, AERIAL JUNCTION BOX	EA		1/1/2010	
0635 1 13	PULL & JUNCTION BOXES, F&I, MOUNTED JUNCTION BOX	EA		1/1/2010	
0635 1 15	PULL & JUNCTION BOXES, F&I, FIBER OPTICS	EA	T	1/1/2010	
0635 1 16	PULL & JUNCTION BOXES, F&I, SPECIAL	EA	T	1/1/2010	
0635 1 30	PULL & JUNCTION BOXES, INSTALL	EA	T	1/1/2010	
0635 1 40	PULL & JUNCTION BOXES, RELOCATE	EA	T	1/1/2010	

639- 1- AB SIGNALS- ELECTRICAL POWER SERVICE

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17736

Specifications Section 639
Min Specs: Section A639

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 1- AB** **SIGNALS- ELECTRICAL POWER SERVICE** **AS**

A = Type Of Service
1 (Overhead)

2 (Underground)

B = Meter Base
1 (Furnished By Power Company)
2 (Purchased By Contractor From Power Company)
3 (Not Required)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 1 11	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD, METER FURNISHED BY POWER COMPANY	AS		1/1/2010	
0639 1 12	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD, METER FURNISHED BY CONTRACTOR	AS		1/1/2010	
0639 1 13	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD	AS		1/1/2010	
0639 1 21	SIGNALS, ELECTRICAL POWER SERVICE, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS		1/1/2010	
0639 1 22	SIGNALS,ELECTRICAL POWER SERVICE,UNDERGROUND, PURCHASED BYCONTRACTOR FROM POWER COMPANY	AS		1/1/2010	
0639 1 23	SIGNALS, ELECTRICAL POWER SERVICE,UNDERGROUND	AS		1/1/2010	

639- 2- A SIGNALS- ELECTRICAL SERVICE WIRE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Payment shall be based on the linear foot (meter) of a single conductor. Refer to Specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Section 639
Min Specs: Section A639

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 2- A** **SIGNALS- ELECTRICAL SERVICE WIRE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 2 1	SIGNALS, ELECTRICAL SERVICE WIRE	LF		1/1/2010	

639- 3- AB SIGNALS- ELECTRICAL SERVICE DISCONNECT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17736

Specifications Section 639
Min Specs: Section A639

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 3- AB** **SIGNALS- ELECTRICAL SERVICE DISCONNECT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Type Mount
1 (Pole)
2 (Cabinet)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 3 11	SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA		1/1/2010	
0639 3 12	SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&I, CABINET	EA		1/1/2010	

639- 4- A SIGNALS- EMERGENCY GENERATOR

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Selected items are for Emergency / Pre-Event contract use only.**

Details This pay item is for traffic signals and traffic control devices only.

FURNISH & INSTALL: COORDINATE THE USE OF THIS ITEM WITH THE STATE TRAFFIC OPERATIONS OFFICE. Tech Spec needs to address several issues related to the generator: Size, capacity, mounting, maintenance, and security.
*** Generators cannot be furnished to the maintenance yard or maintaining agency using construction funds.***
If Generator is to be installed at the signals location, maintenance agreements should be completed with maintaining agency. Installation details should address securing generator to minimize potential theft.

Install: For Pre-Event or Emergency contracts, coordinate the use of this item with the District Maintenance Office, to ensure the availability of generators. Tech Spec should detail security of generator and instructions for returning unit to FDOT maintenance yard.

Retrofit: Signalized location has been retrofit to accept generator connection.

Not Retrofit: Signalized location has NOT been retrofit to accept generator connection; contractor must complete the retrofit prior to generator installation. Payment for retrofit operation is included in the payment for installing generator.

Monitor & Refuel: Tech Specs should detail monitoring requirements. Fuel to be included in payment for hourly rate. (No separate payment for fuel.)

Install Generator Housing (Item furnished by maintaining agency): Details or Tech Spec should indicate that the contractor is to coordinate with the maintaining agency for pick-up/delivery of the housing to the project site. Contractor will install housing. Details or specs should indicate approximate housing dimensions, and whether a foundation/pad (included in this item for payment) is necessary.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 4- A** **SIGNALS- EMERGENCY GENERATOR** **Mixed**

A = Operation
1 (Furnish & Install) Blocked 8-10-08
3 (Install - Retrofit; FDOT furnished) EA; For Emergency /Pre-Event contracts only. Signalized location HAS BEEN RETROFIT to accept generator connection.
4 (Install - Not Retrofit; FDOT furnished) EA; For Emergency /Pre-Event contracts only. Signalized location HAS NOT BEEN RETROFIT to accept generator connection.
5 (Monitor and Refuel) HR; For Emergency /Pre-Event contracts only
6 (Install Generator Housing only) EA; housing furnished by maintaining agency.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 4 3	EMERGENCY GENERATOR - SIGNALS USE ONLY, INSTALL- RETROFIT; FDOT FURNISHED	EA	T	1/1/2010	
0639 4 4	EMERGENCY GENERATOR - SIGNALS USE ONLY, INSTALL- NOT RETROFIT, FDOT FURNISHED	EA	T	1/1/2010	
0639 4 5	EMERGENCY GENERATOR - SIGNALS USE ONLY, MONITOR & REFUEL	HR	T	1/1/2010	
0639 4 6	EMERGENCY GENERATOR - SIGNALS USE ONLY, INSTALL HOUSING ONLY	EA	T	1/1/2010	

641- 1- SIGNALS- STRAIN POLES, GUYING, CONCRETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17725

Specifications Section 641

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **641- 1-** **SIGNALS- STRAIN POLES, GUYING, CONCRETE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0641 1	STRAIN POLES GUYING, CONCRETE	EA		1/1/2010	

641- 2- AB PRESTRESSED CONCRETE POLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal plans.
to be used as detailed on index 17725. Poles must be on QPL list.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17725

Specifications Section 641

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **641- 2- AB** **PRESTRESSED CONCRETE POLES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type P-II Pedestal)
2 (Type P-II Service Pole)
3 (Type P-III)
4 (Type P-IV)
5 (Type P-V)
6 (Type P-VI)
7 (Type P-VII)
8 (Type P-VIII)
9 (Custom Design)*

Notes *Custom Design requires Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA		1/1/2010	
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA		1/1/2010	
0641 2 14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA		1/1/2010	
0641 2 15	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V	EA		1/1/2010	
0641 2 16	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VI	EA		1/1/2010	
0641 2 17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VII	EA		1/1/2010	
0641 2 18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA		1/1/2010	
0641 2 19	PRESTRESSED CONCRETE POLE, F&I, CUSTOM DESIGN	EA		1/1/2010	
0641 2 30	PRESTRESSED CONCRETE POLE, INSTALL	EA		1/1/2010	

643- 1- STRAIN POLES, GUYING, WOOD

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17356, 17727

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **643- 1-** **STRAIN POLES, GUYING, WOOD** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0643 1	STRAIN POLES, GUYING, WOOD	EA		1/1/2010	

643-ABB- STRAIN POLES, WOOD

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended** 643- 1- (2643- 1)

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **643-ABB-** **STRAIN POLES, WOOD** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
BB = Pole Length (Specified In 5' Increments Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0643125	STRAIN POLE, WOOD, F&I, 25'	EA		1/1/2010	
0643130	STRAIN POLES, WOOD, FURNISH & INSTALL, 30'	EA		1/1/2010	
0643140	STRAIN POLE, WOOD, FURNISH & INSTALL, 40'	EA		1/1/2010	
0643145	STRAIN POLES, WOOD, FURNISH & INSTALL, 45'	EA		1/1/2010	
0643150	STRAIN POLE, WOOD, F&I, 50'	EA		1/1/2010	

649- 1- AB STEEL STRAIN POLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Selected Items may require Plan Details and/or Technical Specifications
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649- 1- AB** **STEEL STRAIN POLES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type PS-IV)
2 (Type PS - V)
3 (Type PS-VI)
4 (Type PS-VII)
5 (Type PS - VIII)
6 (Type PS-IX)
7 (Type PS - X)
9 (Custom)*

Notes * Custom may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 1 13	STEEL STRAIN POLE, F&I, TYPE PS- VI	EA		1/1/2010	
0649 1 14	STEEL STRAIN POLE, F&I, TYPE PS- VII	EA		1/1/2010	
0649 1 15	STEEL STRAIN POLE, F&I, TYPE PS- VIII	EA		1/1/2010	
0649 1 16	STEEL STRAIN POLE, F&I, TYPE PS- I X	EA		1/1/2010	
0649 1 17	STEEL STRAIN POLE, F&I, TYPE PS- X	EA		1/1/2010	

649- 1A-BBB MONOTUBE ASSEMBLIES, STEEL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.

After December 2007: Design Standards are no longer available. Please contact the State Structures Office for assistance. Ensure that the maintaining agency and local authorities have agreed to the use of a monotube. Tech Specs and/or Plan Details will be required for structural size/shape, material requirements, installation details, and measurement/payment. Foundation is to be included in the price for the complete assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NOT TO BE USED FOR ITS Projects. Refer to 780 items.
Item used for monotube structures which carry signals. Refer to Plans Preparation Manual, Vol I Chapters 7 and 29, Vol II Chapter 24 for details.
Use Monotube Tabulation Sheet (available from CADD bar menu).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17746 (Index valid through 12/2007)

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649- 1A-BBB** **MONOTUBE ASSEMBLIES, STEEL** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BBB =
001 (Special) see detail
002 (Special 2) see detail
003 (Special 3) see detail
110 (Standard 110’ span)
135 (Standard 135’ span)
160 (Standard 160’ span)
185 (Standard 185’ span)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 11160	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, STANDARD 160' SPAN	EA	T	1/1/2010	
0649 11185	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, STANDARD 185' SPAN	EA	T	1/1/2010	

649- 3A-BCC STEEL MAST ARM ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Effective January 2009: Refer to PPM (Plans Preparation Manual) Vol 1, Chapters 7 and 29 for current FDOT Policy on the use of Mast Arms: in general, only to be used within 10 miles of coastline.

Details

This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.

When "w/ Luminaire" is used, detail luminaire requirements in the plans.

BCC=999 (Custom) to be used only when specifications and/or standards do not apply, due to significant design changes. Complete design calculations, including wind loads, are required in the plans.

Note: For minor changes in arm lengths, such as field cuts, use the standard pay item, with a note in the plans for the final length.

When street name signs are to be located on a signals mast arm, tabulate and detail the sign (size, shape, letters, etc.) in the SIGNING plans. Load the pay item in the SIGNING category. The installation location may be shown on the signal plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required **Recommended**

Forms

Design SHMastArmTab1; SHMastArmTab2: Mast Arm Tabulation Sheets

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter Vol 1, 7.4

Other

Standards

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649- 3A-BCC** **STEEL MAST ARM ASSEMBLY** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCC=000
4 (Relocate) BCC=000

B= Wind Speed
1 (150 with signal backplates)
2 (130 with signal backplates or 150 without signal backplates)
3 (110 with signal backplates)
9 (Custom) CC=99 *See details above

CC= Arm Length(s)
For Single Arm, w/o Luminaire
01 (36)
02 (46)
03 (60)
04 (70.5)
05 (78)
For Single Arm w/ Luminaire- see details above
06 (36)
07 (46)
08 (60)
09 (70.5)
For Double Arm w/o Luminaire
10 (36-36)
11 (36-46)
12 (36-60)
13 (36-70.5)
14 (46-46)
15 (46-60)
16 (46-70.5)
17 (60-60)
18 (60-70.5)
19 (70.5-70.5)
Custom/Non-Standard Arm Combinations
99= (Custom) B=9, *See details above

Notes Include Arm Type/luminaire in TRNS*PORT description

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 31101	STEEL MAST ARM,F&I, WIND SPEED-150,SINGLE ARM, W/0 LUMINAIRE-36	EA		1/1/2010	
0649 31102	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-46	EA		1/1/2010	
0649 31103	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-60	EA		1/1/2010	
0649 31104	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-70.5	EA		1/1/2010	
0649 31105	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-78	EA		1/1/2010	

0649 31106	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM WITH LUMINAIRE-36'	EA	1/1/2010
0649 31107	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-46	EA	1/1/2010
0649 31108	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-60	EA	1/1/2010
0649 31109	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-70.5	EA	1/1/2010
0649 31110	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-36	EA	1/1/2010
0649 31111	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-46	EA	1/1/2010
0649 31112	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-60	EA	1/1/2010
0649 31113	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-70.5	EA	1/1/2010
0649 31114	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/0 LUMINAIRE, 46-46	EA	1/1/2010
0649 31115	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/0 LUMINAIRE, 46-60	EA	1/1/2010
0649 31116	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 46-70.5	EA	1/1/2010
0649 31117	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 60-60	EA	1/1/2010
0649 31118	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA	1/1/2010
0649 31119	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA	1/1/2010
0649 31201	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-36	EA	1/1/2010
0649 31202	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-46	EA	1/1/2010
0649 31203	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-60	EA	1/1/2010
0649 31204	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 70.5	EA	1/1/2010
0649 31205	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 78	EA	1/1/2010
0649 31206	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 36'	EA	1/1/2010
0649 31207	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 46	EA	1/1/2010
0649 31208	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 60	EA	1/1/2010
0649 31209	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 70.5	EA	1/1/2010
0649 31210	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/ LUMINAIRE, ARM LENGTH 36' AND 36'	EA	1/1/2010

0649 31211	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-46	EA	1/1/2010
0649 31212	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-60	EA	1/1/2010
0649 31213	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-70.5	EA	1/1/2010
0649 31214	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 46'	EA	1/1/2010
0649 31215	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46-60	EA	1/1/2010
0649 31216	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46-70.5	EA	1/1/2010
0649 31217	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 60-60	EA	1/1/2010
0649 31218	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA	1/1/2010
0649 31219	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA	1/1/2010
0649 31301	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-36	EA	1/1/2010
0649 31302	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-46	EA	1/1/2010
0649 31303	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-60	EA	1/1/2010
0649 31304	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-70.5	EA	1/1/2010
0649 31305	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-78	EA	1/1/2010
0649 31306	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-36	EA	1/1/2010
0649 31307	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-46	EA	1/1/2010
0649 31308	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-60	EA	1/1/2010
0649 31309	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/ LUMINAIRE-70.5	EA	1/1/2010
0649 31310	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 36'	EA	1/1/2010
0649 31311	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 46'	EA	1/1/2010
0649 31312	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 60'	EA	1/1/2010
0649 31313	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 70.5'	EA	1/1/2010
0649 31314	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 46'	EA	1/1/2010
0649 31315	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 60'	EA	1/1/2010
0649 31316	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 70.5'	EA	1/1/2010

0649 31317	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 60' AND 60'	EA		1/1/2010
0649 31318	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA		1/1/2010
0649 31319	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA		1/1/2010
0649 31999	MAST ARM,F&I, CUSTOM WIND SPEED, CUSTOM ARM LENGTH(S)	EA	T	1/1/2010
0649 33000	MAST ARM, INSTALL	EA		1/1/2010
0649 34000	MAST ARM, RELOCATE	EA		1/1/2010

650- 5A-BCD TRAFFIC SIGNAL

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

This pay item is for "permanent" traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable. For Maintenance of Traffic (MOT) activities, refer to MOT specifications, section 102.

Includes standard traffic signal, with LED indicators, and all other materials necessary for a complete and accepted installation.

Install only: Signal to be furnished by FDOT or Maintaining Agency. Plans or Specifications must provide pick-up or delivery instructions. Contractor to furnish any incidentals for a complete installation.

Relocate: Includes the removal of the signal head and installation at the location shown in the plans. Payment includes signal cable and all other materials necessary for a complete and accepted relocation. DO NOT USE this item for Maintenance of Traffic (MOT) adjustments.

Special: DO NOT Use this item for LED (standard) signals. "Special" types should be submitted to the State Traffic Ops office for review.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Min Specs: Section A650

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **650- 5A-BCD** **TRAFFIC SIGNAL** **AS**

A = Operation
1 (Furnish & Install)
3 (Install) BCD=blank. Signal furnished by FDOT or Maintaining Agency.
4 (Relocate) BCD=blank. DO NOT USE for MOT activities.
Remove: Use item 690-10
5 (Retrofit Existing Hanger Assembly) BCD=blank

B = Number Of Sections On Each Face

C = Number Of Directions

D = Type
1 (Standard) LED indicators
2 (Light Weight)
3 (Special) see detail

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0650 51111	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, STANDARD	AS		1/1/2010	
0650 51112	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51113	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2010	
0650 51121	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, STANDARD	AS		1/1/2010	
0650 51122	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51123	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, SPECIAL	AS	T	1/1/2010	
0650 51131	TRAFFIC SIGNAL, F&I, 1 SECT, 3 WAY, STD	AS		1/1/2010	
0650 51132	TRAFFIC SIGNAL, F&I, 1 SECT, 3 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51133	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 3 WAY, SPECIAL	AS	T	1/1/2010	
0650 51141	TRAFFIC SIGNAL, F&I, 1 SECT, 4 WAY, STD	AS		1/1/2010	
0650 51142	TRAFFIC SIGNAL, F&I, 1 SECT, 4 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51143	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 4 WAY, SPECIAL	AS	T	1/1/2010	
0650 51211	TRAFFIC SIGNAL, F&I, 2 SECTION, 1 WAY, STANDARD	AS		1/1/2010	
0650 51212	TRAFFIC SIGNAL, F&I, 2 SECTION, 1 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51213	TRAFFIC SIGNAL, F&I, 2 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2010	
0650 51311	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, STANDARD	AS		1/1/2010	
0650 51312	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 1 WAY, LIGHT WEIGHT	AS		1/1/2010	
0650 51313	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2010	

0650 51321	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, STANDARD	AS		1/1/2010
0650 51322	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 51323	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 2 WAY, SPECIAL	AS	T	1/1/2010
0650 51331	TRAFFIC SIGNAL, F&I, 3 SECTION, 3 WAY, STANDARD	AS		1/1/2010
0650 51332	TRAFFIC SIGNAL, F&I, 3 SECTION, 3 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 51341	TRAFFIC SIGNAL, F&I, 3 SECTION, 4 WAY, STANDARD	AS		1/1/2010
0650 51342	TRAFFIC SIGNAL, F&I, 3 SECTION, 4 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 51411	TRAFFIC SIGNAL, F&I, 4 SECT 1 WAY, STD	AS		1/1/2010
0650 51412	TRAFFIC SIGNAL, F&I, 4 SECT 1 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 51511	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, STANDARD	AS		1/1/2010
0650 51512	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 51513	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2010
0650 51521	TRAFFIC SIGNAL , F&I, 5 SECT, 2 WAY, STD	AS		1/1/2010
0650 51522	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 2 WAY, LIGHT WEIGHT	AS		1/1/2010
0650 53	TRAFFIC SIGNAL, INSTALL	AS		1/1/2010
0650 54	TRAFFIC SIGNAL, RELOCATE	AS		1/1/2010
0650 55	TRAFFIC SIGNAL, RETROFIT EXISTING HANGER ASSEMBLY	AS		1/1/2010

653-ABC- PEDESTRIAN SIGNAL

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

LED Countdown is the current standard; refer to PPM Vol 1, Chapter 7.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 7

Other

Standards Index No. 17764, 17784

Specifications Min Specs: Section A653

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **653-ABC-** **PEDESTRIAN SIGNAL** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) Items provided by local maintaining agency
4 (Relocate) BC=00
Remove: use item 690-20

B = Type Signal
1 (12" Incandescent)

7 (Neon International Symbol Low Wattage)
8 (LED)
9 (LED- Countdown) STANDARD

C = Number Of Directions (Ways)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0653111	SIGNAL PEDESTRIAN, 12 INCH, INCANDESCENT, 1 WAY	AS		1/1/2010	
0653112	SIGNAL PEDESTRIAN, 12 INCH, INCANDESCENT, 2 WAY	AS		1/1/2010	
0653171	SIGNAL PEDESTRIAN, NEON INTERNATIONAL SYMBOL LOW WATTAGE, 1 WAY	AS		1/1/2010	
0653172	SIGNAL PEDESTRIAN, NEON INTERNATIONAL SYMBOL LOW WATTAGE, F&I, 2 WAY	AS		1/1/2010	
0653181	PEDESTRIAN SIGNAL, F&I, LED, 1 DIRECTION	AS		1/1/2010	
0653182	PEDESTRIAN SIGNAL, F&I, LED, 2 DIRECTIONS	AS		1/1/2010	
0653191	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 1 DIRECTION	AS		1/1/2010	
0653192	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 2 DIRECTIONS	AS		1/1/2010	
0653193	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 3 DIRECTIONS	AS		1/1/2010	
0653311	PEDESTRIAN SIGNAL,INSTALL,12" INCANDESCENT,1 DIRECTION	AS		1/1/2010	
0653312	PEDESTRIAN SIGNAL,INSTALL,12" INCANDESCENT,2 DIRECTIONS	AS		1/1/2010	
0653381	PEDESTRIAN SIGNAL, INSTALL, LED, 1 WAY	EA		1/1/2010	

0653391	PEDESTRIAN SIGNAL , INSTALL, LED - COUNT DOWN, 1 DIRECTION	AS	1/1/2010
0653392	PEDESTRIAN SIGNAL , INSTALL, LED - COUNT DOWN, 2 DIRECTION	AS	1/1/2010
0653400	SIGNAL PEDESTRIAN, RELOCATE	AS	1/1/2010

659-ABB- SIGNAL HEAD AUXILIARIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Min Specs: Section A659

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **659-ABB-** **SIGNAL HEAD AUXILIARIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
Remove: for signal pedestal, use item 690-31

BB = 01 (Back Plates, 3 Section)
02 (Back Plates, 4 Section)
03 (Disconnect Hanger)
04 (Signal Lamps 140 Watt Max.)
05 (Signal Lamps 60 Watt Max.)
06 (Tunnel Visor)
07 (Aluminum Pedestal)
08 (Steel Pedestal)
09 (Concrete Pedestal, Type II)
10 (Louvers)
11 (Back Plates, 1-Section)
12 (Mounting Brackets, 2-Way)
13 (Mounting Brackets, 3-Way)
14 (Mounting Brackets, 4-Way)
15 (12" Lens)
16 (8" Lens)
17 (Signal Frame)

18 (Back Plates, 5-Section Cluster)
20 (LED Module)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0659101	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES 3 SECT	EA		1/1/2010	
0659102	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES 4 SECT	EA		1/1/2010	
0659103	SIGNAL HEAD AUXILIARIES, FURNISH & INSTAL, DISCONNECT HANGER	EA		1/1/2010	
0659104	SIGNAL HEAD AUXILIARIES, FURNISH & INSTAL, SIGNAL LAMPS 140 WATT MAX	EA		1/1/2010	
0659106	SIGNAL HEAD AUXILIARIES, F&I, TUNNEL VISOR	EA		1/1/2010	
0659107	SIGNAL HEAD AUXILIARIES, F&I, ALUMINUM PEDESTAL	EA		1/1/2010	
0659108	SIGNAL HEAD AUXILIARIES, F&I, STEEL PEDESTAL	EA		1/1/2010	
0659109	SIGNAL HEAD AUXILIARIES, F&I, CONC PEDESTAL TYPE II	EA		1/1/2010	
0659110	SIGNAL HEAD AUXILIARIES, F&I, LOUVERS	EA		1/1/2010	
0659111	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 1 SECTION	EA		1/1/2010	
0659112	SIGNAL HEAD AUXILIARIES, F&I, MOUNTING BRACKETS, 2- WAY	EA		1/1/2010	
0659115	SGNL HEAD AUXI, F&I, 12" LENS	EA		1/1/2010	
0659118	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 5 SECT CLUSTER	EA		1/1/2010	
0659120	SIGNAL HEAD AUXILIARIES, F&I, LED MODULE	EA		1/1/2010	
0659307	SIGNAL HEAD AUXILIARIES, INSTALL, ALUMINUM PEDESTAL	EA		1/1/2010	
0659308	SIGNAL HEAD AUXILIARIES, INSTALL, STEEL PEDESTAL	EA		1/1/2010	
0659309	SIGNAL HEAD AUXILIARIES, INSTALL, CONC PEDESTAL TYPE II	EA		1/1/2010	

660- 1-ABB LOOP DETECTOR, INDUCTIVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Min Specs: Section A660
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **660- 1-ABB** **LOOP DETECTOR, INDUCTIVE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type
01 (Type 1, 1 Ch, R, S)
02 (Type 2, 1 Ch, R, S, TD)
03 (Type 3, 1 Ch, SS, S))
04 (Type 4, 1 Ch, SS, S, TD)
05 (Type 5, 2 Ch, SS, S)
06 (Type 6, 2 Ch, SS, S, TD)
07 (Type 7, 4 Ch, SS, S)
08 (Type 8, 4 Ch, SS, S, TD)
09 (Type 9, 2 Ch, SS, RM)
10 (Type 10, 2 Ch, SS, RM, TD)
11 (Type 11, 4 Ch, SS, RM)
12 (Type 12, 4 Ch, SS, RM, TD)
Legend
Ch = Channel
R = Relay Output
S = Shelf Mounted
TD = Time Delay
RM = Rack Mounted
SS = Solid State

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 1101	LOOP DETECTOR INDUCTIVE, F&I, TYPE 1	EA		1/1/2010	
0660 1102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	EA		1/1/2010	
0660 1103	LOOP DETECTOR INDUCTIVE, F&I, TYPE 3	EA		1/1/2010	
0660 1104	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 4, 2CHANNEL, SOLID STATE, SHELF MOUNTED, TIME DELAY	EA		1/1/2010	
0660 1105	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 5, 2CHANNEL, SOLID STATE, SHELF MOUNTED	EA		1/1/2010	

0660 1106	LOOP DETECTOR INDUCTIVE , F&I, TYPE 6, 2 CH,SS,S,TD	EA	1/1/2010
0660 1107	LOOP DETECTOR INDUCTIVE , F&I, TYPE 7, 4 CH,SS,S	EA	1/1/2010
0660 1109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	1/1/2010
0660 1110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA	1/1/2010
0660 1111	LOOP DETECTOR INDUCTIVE, F&I, TYPE 11, 4 CH, SS, RM	EA	1/1/2010
0660 1112	LOOP DETECTOR INDUCTIVE, F&I, TYPE 12, 4 CH, SS, RM, TD	EA	1/1/2010

660- 2-ABB LOOP ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Includes cost of loop material, labor, etc. according to specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17781

Specifications Min Specs: Section A660

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **660- 2-ABB** **LOOP ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type
01 (Type A)
02 (Type B)
03 (Type C)
04 (Type D)
05 (Type E)
06 (Type F)
07 (Type G)
08 (Type H)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	AS		1/1/2010	
0660 2102	LOOP ASSEMBLY, F&I, TYPE B	AS		1/1/2010	
0660 2103	LOOP ASSEMBLY, F&I, TYPE C	AS		1/1/2010	
0660 2104	LOOP ASSEMBLY, F&I, TYPE D	AS		1/1/2010	
0660 2105	LOOP ASSEMBLY, F&I, TYPE E	AS		1/1/2010	
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS		1/1/2010	
0660 2107	LOOP ASSEMBLY, F&I, TYPE G	AS		1/1/2010	

663- 72- A VEHICLE DETECTOR SUPPORT APPURTENANCES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **663- 72- A** **VEHICLE DETECTOR SUPPORT APPURTENANCES** **EA**

A =
1 (Readers)
2 (Memory Modules)
3 (Software)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

663- 74- AB VEHICLE DETECTOR ASSEMBLIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Includes all work and materials necessary for a complete assembly, as detailed in the plans

or specifications. One assembly is needed, per approach (normally 4 per intersection).

For Relocate operation, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **663- 74- AB** **VEHICLE DETECTOR ASSEMBLIES** **EA**

A = Operation
1 (Furnish & Install)
4 (Relocate) B=0
Remove: use item 690-60

B = Assembly Type
1 (Optical Type)
2 (Infrared)
3 (Road Tube)
4 (Emergency Pre-emption)
5 (Video)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0663 74 11	VEHICLE DETECTOR ASSEM, F&I, OPTICAL TYPE	EA	T	1/1/2010	
0663 74 12	VEHICLE DETECTOR ASSEMBLIES, F&I, INFRARED	EA	T	1/1/2010	
0663 74 14	VEHICLE DETECTOR ASSEMBLIES, F&I, EMERGENCY PRE-EMPTION	EA	T	1/1/2010	
0663 74 15	VEHICLE DETECTOR ASSEMBLIES, F&I, VIDEO	EA	T	1/1/2010	

0663 74 40	VEHICLE DETECTOR ASSEM, RELOCATE	EA	T	1/1/2010	
0663 74 45	VEHICLE DETECTOR ASSEM, RELOCATE, VIDEO	EA	T	1/1/2010	6/30/2010

665- AB- PEDESTRIAN DETECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Includes pedestrian signs, as shown on index 17784.

INSTALL: Detector and Sign to be furnished by FDOT or Maintaining agency. Plans or Specs must indicate pick-up or delivery instructions. Incidental parts to complete the installation to be furnished by the contractor.

RELOCATE: Ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17784

Specifications Min Specs: Section A665

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **665- AB-** **PEDESTRIAN DETECTOR** **EA**

A = Operation
1 (Furnish & Install)
3 (Install) B=0. Furnished by FDOT or Maintaining Agency
4 (Relocate) B=0 see details above
Remove: use item 690-70

B = Assembly Type
1 (Pole Or Controller Cabinet Mounted Detector Station & Sign)
2 (Detector Station With Post & Sign)
3 (Detector With Sign Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0665 11	PEDESTRIAN DETECTOR, F&I, POLE OR CONTROLLER CABINET MOUNTED DETECTOR STATION & SIGN	EA		1/1/2010	
0665 12	PEDESTRIAN DETECTOR, F&I, DETECTOR STATION WITH POST & SIGN	EA		1/1/2010	
0665 13	PEDESTRIAN DETECTOR, F&I, DETECTOR WITH SIGN ONLY	EA		1/1/2010	
0665 30	PEDESTRIAN DETECTOR, INSTALL	EA		1/1/2010	
0665 40	PEDESTRIAN DETECTOR, RELOCATE	EA		1/1/2010	

668- AB- DETECTOR CABINET (SIGNALS)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **668- AB-** **DETECTOR CABINET (SIGNALS)** **EA**

A =
1 (Furnish & Install)
3 (Install)

B = Cabinet Size (Minimum)
1 (Type I 13" X 10" X 6")
2 (Type II 27" X 15" X 12")
3 (Type III 32" X 20" X 14")
4 (Type IV 48" X 29" X 16")
5 (Type V 54" X 38" X 24")
6 (Type Vi 74" X 38" X 24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0668 11	DETECTOR CABINET, FURNISH & INSTALL, TYPE I 13"X10"X6"	EA		1/1/2010	
0668 12	DETECTOR CABINET, FURNISH & INSTALL, TYPE II 27"X15"X12"	EA		1/1/2010	
0668 13	DETECTOR CABINET, SIGNALS, F&I, TYPE III, 32"X20"X14"	EA		1/1/2010	
0668 14	DETECTOR CABINET, SIGNALS, F&I, TYPE IV, 48"X29"X16"	EA		1/1/2010	
0668 15	DETECTOR CABINET- SIGNALS, F&I, TYPE V, 54"X38"X24"	EA		1/1/2010	
0668 16	DETECTOR CABINET, SIGNALS, F&I, TYPE VI, 74"X38"X24"	EA		1/1/2010	
0668 33	DETECTOR CABINET, INS, TYPE III, 32"X20"X14"	EA		1/1/2010	
0668 35	DETECTOR CABINET, INS, TYPE V, 54"X38"X24"	EA		1/1/2010	

670- 4- A FLASHING BEACON CONTROLLER ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17841

Specifications Min Specs: Section A670

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **670- 4- A** **FLASHING BEACON CONTROLLER ASSEMBLY** **AS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0670 4 1	FLASHING BEACON CONTROLLER ASSEMBLY, F&I	AS		1/1/2010	
0670 4 3	FLASHING BEACON CONTROLLER ASSEMBLY, INS	AS		1/1/2010	

670- 5-ABC TRAFFIC CONTROLLER ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

For Modify, detail all work to be completed.
For Special Type, detail all components.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Min Specs: Section A670

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **670- 5-ABC** **TRAFFIC CONTROLLER ASSEMBLY** **AS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Type
1 (NEMA)
2 (170)
3 (Special)

C = Special Features
0 (None)

1 (One Preemption Plan)
2 (Two Preemption Plans)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0670 5110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS		1/1/2010	
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS		1/1/2010	
0670 5112	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS		1/1/2010	
0670 5120	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170	AS		1/1/2010	
0670 5121	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170, 1 PREEMPTION PLAN	AS		1/1/2010	
0670 5122	TRAFFIC CONTROLLER ASSEMBLY, F&I,170,2 PREEMPTION PLANS	AS		1/1/2010	
0670 5130	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL	AS	T	1/1/2010	
0670 5131	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL ONE PREEMPTION PLAN	AS	T	1/1/2010	
0670 5132	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL, 2 PREEMPTION PLANS	AS	T	1/1/2010	
0670 5310	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, NEMA	AS		1/1/2010	
0670 5311	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, NEMA, 1 PREEMPT	AS		1/1/2010	
0670 5320	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, 170	AS		1/1/2010	
0670 5330	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, SPECIAL	AS	T	1/1/2010	
0670 5331	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, SPECIAL ONE PREEMPTION PLAN	AS	T	1/1/2010	
0670 5410	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA	AS		1/1/2010	
0670 5411	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA, 1 PREEMPT	AS		1/1/2010	
0670 5412	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA, 2 PREEMPT	AS		1/1/2010	
0670 5420	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, 170	AS		1/1/2010	
0670 5430	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL	AS	T	1/1/2010	
0670 5431	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL, 1 PREEMPTION PLANS	AS		1/1/2010	
0670 5432	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL, 2 PREEMPTION PLANS	AS		1/1/2010	
0670 5520	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE, 170	AS		1/1/2010	

671- 2- AB TRAFFIC CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications Min Specs: Section A671

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **671- 2- AB** **TRAFFIC CONTROLLER** **EA**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Type
1 (NEMA)
2 (170)
3 (Special)
4 (2070)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0671 2 11	TRAFFIC CONTROLLER, F&I, NEMA	EA		1/1/2010	
0671 2 13	TRAFFIC CONTROLLER, F&I, SPECIAL	EA		1/1/2010	
0671 2 41	TRAFFIC CONTROLLER, MODIFY, NEMA	EA		1/1/2010	
0671 2 42	TRAFFIC CONTROLLER, MODIFY, 170	EA		1/1/2010	
0671 2 43	TRAFFIC CONTROLLER, MODIFY, SPECIAL	EA		1/1/2010	

678- 1-ABB CONTROLLER ACCESSORIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	Min Specs: Section A678
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **678- 1-ABB** **CONTROLLER ACCESSORIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type Of Controller Accessory
01 (Type 3 Conflict Monitor)
02 (Type 6 Conflict Monitor)
03 (Type 12 Conflict Monitor)
04 (Load Switch)
05 (Type 1 Flasher)
06 (Type 3 Flasher)
07 (Type 1 Time Switch)
08 (Type 2 Time Switch)
09 (Type 3 Time Switch)
10 (Type 4 Time Switch)
11 (Power Reduction Assembly)
12 (Master Clock Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0678 1103	CONTROLLER ACCESSORIES, F&I, TYPE 12CONFLICT MONITOR	EA		1/1/2010	
0678 1104	CONTROLLER ACCESSORIES, F&I, LOAD SWITCH	EA		1/1/2010	
0678 1105	CONTROLLER ACCESSORIES, F&I, TYPE 1 FLASHER	EA		1/1/2010	
0678 1106	CONTROLLER ACCESSORIES, F&I, TYPE 3 FLASHER	EA		1/1/2010	
0678 1107	CONTROLLER ACCESSORIES, F&I, TYPE 1 TIME SWITCH	EA		1/1/2010	

0678 1109	CONTROLLER ACCESSORIES, F&I, TYPE 3 TIME SWITCH	EA	1/1/2010
0678 1110	CONTROLLER ACCESSORIES, F&I, TYPE 4 TIME SWITCH	EA	1/1/2010
0678 1111	CONTROLLER ACCESSORIES, F&I, POWER REDUCTION ASSEMBLY	EA	1/1/2010
0678 1112	CONTROLLER ACCESSORIES, F&I, MASTER CLOCK UNIT	EA	1/1/2010
0678 1305	CONTROLLER ACCESSORIES, INSTALL, TYPE 1 FLASHER	EA	1/1/2010

680-ABB- SYSTEM CONTROL EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Detailed plan notes or specifications to be provided by designer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **680-ABB-** **SYSTEM CONTROL EQUIPMENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CPU)
02 (Card Reader)
03 (Keyboard Printer)
04 (Line Printer)

05 (Disc Memory System)
06 (Communications Interface)
07 (Display Map Interface)
08 (Mag Type System)
09 (Keyboard CRT)
10 (Control Console)
11 (Roadside Master)
12 (Card Punch)
13 (Central Microcomputer Assembly)
14 (Central Modem Card)
15 (Autodial/Answer Ext Communications Modem)
16 (Fiber Optic, FSK Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0680104	SYSTEM CONTROL EQUIPMENT,F&I, LINE PRINTER	EA	T	1/1/2010	
0680106	SYSTEM CONTROL EQUIPMENT,F&I, COMMUNICATION INTERFACE	EA	T	1/1/2010	
0680111	SYSTEM CONTROL EQUIPMENT, FURNISH AND INSTALL ROADSIDE MASTER	EA	T	1/1/2010	
0680113	SYSTEM CONTROL EQUIPMENT,F&I, CENTRAL MICROCOMPUTER ASSEMBLY	EA	T	1/1/2010	
0680114	SYSTEM CONTROL EQUIPMENT,F&I, MODEM CARD	EA	T	1/1/2010	
0680115	SYSTEM CONTROL EQUIPMENT, F&I, AUTODIAL / ANSWER EXT COMM MODEM	EA	T	1/1/2010	
0680116	SYSTEM CONTROL EQUIPMENT,F&I, FIBER OPTIC, FSK MODEM	EA	T	1/1/2010	

681-ABB- SYSTEM SOFTWARE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **681-ABB-** **SYSTEM SOFTWARE** **LS/LS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BB=00

BB = Item As Described
01 (CPU Software)
02 (UTCS Fortran Routines)
03 (UTCS Assembly Language Routines)
04 (Data Base)
05 (Control Patterns)
06 (Data Base Generator)
07 (Pattern Generator)
08 (SCS Operating Software)
09 (Motorist Aid Operating Software)
10 (Weigh In Motion Operating Software)
11 (Traffic Control System Software)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0681101	SYSTEM SOFTWARE, F&I, CPU SOFTWARE	LS	T	1/1/2010	
0681104	SYSTEM SOFTWARE, F&I, DATA BASE	LS	T	1/1/2010	
0681111	SYSTEM SOFTWARE, F&I, TRAFFIC CONTOL SYSTEM SOFTWARE	LS	T	1/1/2010	

682-ABB- **SYSTEM DISPLAY**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Refer to ITS Items for Intelligent Transportation System applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **682-ABB-** **SYSTEM DISPLAY** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CRT Display)
02 (Panel Board Map)
03 (Projected Display)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0682101	SYSTEM DISPLAY, CRT DISPLAY	EA	T	1/1/2010	

683-ABB- SYSTEM COMMUNICATIONS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **683-ABB-** **SYSTEM COMMUNICATIONS** **LS/LS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB= Item As Described
01 (FDM) Frequency Division Multiplexor
02 (TDM)
03 (TDM Hardware)
04 (TDM Radio)
05 (TDM Coaxial)
06 (Central Site Radio)
07 (System Communications Modems)
08 (Voice Equipment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0683107	SYSTEM COMMUNICATIONS, F&I, COMMUNICATIONS MODEMS	LS	T	1/1/2010	

684- AB- SYSTEM COMMUNICATIONS CARRIER

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **684- AB-** **SYSTEM COMMUNICATIONS CARRIER** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Item As Described
1 (Multi-Pair Cable)
2 (Coaxial Cable)
3 (Lead Jacketed Coaxial Cable)
4 (Fiber Optic Cable)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 11	SYSTEM COMMUNICATIONS CARRIER, F&I, MULTI-PAIR CABLE	LF	T	1/1/2010	
0684 12	SYSTEM COMMUNICATIONS CARRIER, F&I, COAXIAL CABLE	LF	T	1/1/2010	
0684 14	SYSTEM COMMUNICATIONS CARRIER, F&I, FIBER OPTIC CABLE	LF	T	1/1/2010	
0684 34	SYSTEM COMMUNICATIONS CARRIER, INSTALL, FIBER OPTIC CABLE	LF	T	1/1/2010	

685-ABB- SYSTEM AUXILIARIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
NOT TO BE USED FOR ITS Projects. Refer to 780 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **685-ABB-** **SYSTEM AUXILIARIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (RF Modulator)
02 (Multi-Plex Field Transceiver, Wire)
03 (Multi-Plex Field Transceiver, Radio)
04 (Data Accumulator)
05 (Master Clock Unit)
06 (Uninterruptible Power Source)
07 (Test Equipment)
08 (Equipment Cabinet, Type A)
09 (Equipment Cabinet, Type B)
10 (Equipment Cabinet, Type C)
11 (Equipment Cabinet, Type D)
12 (Bridge Continuity Sensor)
13 (Pier Vibration Detection System-Sensors)
14 (Pier Vibration Detection System-Monitor/Controller)
15 (Weather Instrumentation)
16 (Remote Site-Radio)
17 (Citizen Band-Radio)
18 (Telemetry Transmitter)
19 (Telemetry Receiver)
20 (Telemetry Transceiver)
21 (Pre-Timed Controller Adapter)
22 (2-Phase Or Full Actuated Adapter)
23 (3/Phase Thru 8-Phase Full Actuated Adapter)
24 (Universal Adapter)
25 (Standby System Relay)
26 (Standby System Timer)
27 (Telephone Connection Box)
28 (Interface Panel)
29 (Pneumatic Transport Tube Assembly)
30 (Weigh In Motion Scale Assembly)
31 (Static Scale Assembly)
32 (Public Address System Assembly)
33 (RF Demodulator)
34 (Dimensional Measurement Assembly)
36 (Low Band Vhf Radio)
37 (Line Amplifier)
38 (CCTV Camera Assembly)
39 (Fiber Optic Video Amplifier, Transmitter
& Receiver)
40 (Fiber Optic, Modulator/Demodulator)
41 (Fiber Optic, Multiplexor/Demultiplexor)
42 (Video Central Control Equipment)
43 (Video Monitors)
44 (Video System Support Equipment)
55 (PLP FSK Card)
56 (FSK Modem, Interface Panel Wall)

57 (FSK Modem, Multiplexor Interface Panel)
58 (FSK Modem, Interface Panel Rack)
60 (Microwave Radar Detection Unit Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0685106	SYSTEM AUXILIARIES, F&I, UNINTERRUPTIBLE POWER SOURCE	EA	T	1/1/2010	
0685107	SYSTEM AUXILIARIES, F&I, TEST EQUIPMENT	EA	T	1/1/2010	
0685110	SYSTEM AUXILIARIES, F&I, EQUIPMENT CABINET, TYPE C	EA	T	1/1/2010	
0685118	SYSTEM AUXILIARIES, F&I, TELEMETRY TRANSCEIVER	EA	T	1/1/2010	
0685120	SYSTEM AUXILIARIES, F&I, TELEMETRY TRANSCEIVER	EA	T	1/1/2010	
0685124	SYSTEM AUXILIARIES, F&I, UNIVERSAL ADAPTER	EA	T	1/1/2010	
0685127	SYSTEM AUXILIARIES, FURNISH & INSTALL TELEPHONE CONNECTION BOX	EA	T	1/1/2010	
0685128	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL	EA	T	1/1/2010	
0685138	SYSTEM AUXILIARIES, FURNISH & INSTALL, CCTV CAMERA ASSEMBLY	EA	T	1/1/2010	
0685139	SYSTEM AUXILIARIES, F&I, FIBER OPTIC VIDEO AMPLIFIER, TRANSMITTER & RECEIVER	EA	T	1/1/2010	
0685140	SYSTEM AUXILIARIES, FURNISH & INSTALL FIBER OPTIC-MODULATOR/DEMODULATOR	EA	T	1/1/2010	
0685141	SYSTEM AUXILIARIES, FIBER OPTIC-MULTIPLEXOR/DEMULTIPLEXOR	EA	T	1/1/2010	
0685142	SYSTEM AUXILIARIES, F&I, VIDEO CENTRAL CONTROL EQUIPMENT	EA	T	1/1/2010	
0685143	SYSTEM AUXILIARIES, F&I, VIDEO MONITORS	EA	T	1/1/2010	
0685144	SYSTEM AUXILIARIES, F&I, VIDEO SYSTEM SUPPORT EQUIPMENT	EA	T	1/1/2010	
0685156	SYSTEM AUXILIARIES, F&I, FSK MODEM INTERFACE PANEL WALL	EA	T	1/1/2010	
0685158	SYSTEM AUXILIARIES, F&I, FSK MODEM INTERFACE PANEL RACK	EA	T	1/1/2010	
0685160	SYSTEM AUXILIARIES, F&I, MICROWAVE RADAR DETECTION UNIT ASSEMBLY	EA	T	1/1/2010	
0685320	SYSTEM AUXILIARIES, INSTALL, TELEMETRY TRANSCEIVER	EA	T	1/1/2010	
0685324	SYSTEM AUXILIARIES, INSTALL, UNIVERSAL ADAPTER	EA	T	1/1/2010	
0685327	SYSTEM AUXILIARIES, INSTALL, TELEPHONE CONNECTION BOX	EA	T	1/1/2010	

0685338	SYSTEM AUXILARIES, INSTALL, CCTV CAMERA ASSEMBLY	EA	T	1/1/2010
0685360	SYSTEM AUXILIARIES, INSTALL, MICROWAVE RADAR DETECTION UNIT ASSEMBLY	EA	T	1/1/2010

686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **686-ABB-** **CLOSED CIRCUIT TELEVISION EQUIPMENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (Camera Assembly)
02 (Monitor)
03 (Recorder)
04 (Central Controls)
05 (Camera Support)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0686101	CLOSED CIRCUIT TV EQUIPMENT, F&I, CAMERA ASSEMBLY	EA	T	1/1/2010	
0686102	CLOSED CIRCUIT TV EQUIPMENT, F&I, MONITOR	EA	T	1/1/2010	
0686103	CLOSED CIRCUIT TV EQUIPMENT, F&I, RECORDER	EA	T	1/1/2010	
0686104	CLOSED CIRCUIT TV EQUIPMENT, F&I, CENTRAL CONTROLS	EA	T	1/1/2010	
0686105	CLOSED CIRCUIT TV EQUIPMENT, F&I, CAMERA SUPPORT	EA	T	1/1/2010	
0686301	CLOSED CIRCUIT TV EQUIPMENT, INSTALL, CAMERA ASSEMBLY	EA	T	1/1/2010	
0686302	CLOSED CIRCUIT TV EQUIP, INS, MONITOR	EA	T	1/1/2010	
0686305	CLOSED CIRCUIT TV EQUIPMENT, INSTALL, CAMERA SUPPORT	EA	T	1/1/2010	

690- 10- TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **690- 10-** **TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 10	SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL	EA		1/1/2010	

690- 20- SIGNAL PEDESTRIAN ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 20-** **SIGNAL PEDESTRIAN ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA		1/1/2010	

690- 31- SIGNAL PEDESTAL- REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.

Per the specifications, the Department retains ownership of the equipment removed unless

otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 31-** **SIGNAL PEDESTAL- REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 31	SIGNAL PEDESTAL REMOVAL	EA		1/1/2010	

690- 32- A POLE REMOVAL- SHALLOW

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Separate items exist for "shallow" and "deep" pole removal, as defined in the specifications.
Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation , including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.

NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 32- A** **POLE REMOVAL- SHALLOW** **EA**

A =
1 (Direct Burial)
2 (Bolt on Attachment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 32 1	POLE REMOVAL, SHALLOW, DIRECT BURIAL	EA		1/1/2010	
0690 32 2	POLE REMOVAL, SHALLOW, BOLT ON ATTACHMENT	EA		1/1/2010	

690- 33- A POLE REMOVAL- DEEP

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Separate items exist for "shallow" and "deep" pole removal, as defined in the specifications. Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.

NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 33- A** **POLE REMOVAL- DEEP** **LF**

A =
blank (Complete Pole Removal) EA **HOLD: Pending effective date- January 2011 letting**
1 (Direct Burial) LF
2 (Bolt on Attachment) LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 33 1	POLE REMOVAL, DEEP DIRECT BURIAL	LF		1/1/2010	
0690 33 2	POLE REMOVAL, DEEP, BOLT ON ATTACHMENT	LF		1/1/2010	

690- 50- A CONTROLLER ASSEMBLY- REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 50- A** **CONTROLLER ASSEMBLY- REMOVE** **EA**

A =
'Blank' = Complete Assembly
1 (Cabinet Assembly, Less Foundation)
2 (Controller Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 50	CONTROLLER ASSEMBLY, REMOVE, COMPLETE ASSEMBLY	EA		1/1/2010	
0690 50 1	CONTROLLER ASSEMBLY, REMOVE, CAB ASSEMBLY, LESS FOUNDATION	EA		1/1/2010	
0690 50 2	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA		1/1/2010	

690- 60- DETECTOR VEHICLE ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 60-** **DETECTOR VEHICLE ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 60	DETECTOR VEHICLE ASSEMBLY REMOVE	EA		1/1/2010	

690- 70- DETECTOR PEDESTRIAN ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 70-** **DETECTOR PEDESTRIAN ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 70	DETECTOR PEDESTRIAN ASSEMBLY REMOVE	EA		1/1/2010	

690- 80- SPAN WIRE ASSEMBLY REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials

are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 80-** **SPAN WIRE ASSEMBLY REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 80	SPAN WIRE ASSEMBLY, REMOVE	EA		1/1/2010	

690- 90- REMOVE CONDUIT & CABLING

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 90-** **REMOVE CONDUIT & CABLING** **PI**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 90	CONDUIT & CABLING REMOVE	PI		1/1/2010	

690- 91- SIGNAL INTERCONNECT CABLE, REMOVE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 91-** **SIGNAL INTERCONNECT CABLE, REMOVE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690 91	SIGNAL INTERCONNECT CABLE REMOVE	LF		1/1/2010	

690-100- SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690-100-** **SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE** **PI**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0690100	SIGNAL EQUIPMENT MISCELLANOUS REMOVE	PI		1/1/2010	

699- 1- AB INTERNALLY ILLUMINATED SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This item should be used when requested by maintaining agency. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

The internally illuminated street name sign is normally attached to the signals mast arm or span wire. This item should be shown on the signals plans and loaded in the signals category.

INSTALL: To be used ONLY when the item is to be furnished by the Department or other maintaining agency. Plans or specs should clearly identify the item(s) to be installed, pick-up/delivery instructions, as well as installation instructions. Payment includes any incidentals necessary (furnished by the Contractor) for a complete installation.

RELOCATE: Plans or specs should clearly identify the item and initial/final locations. As needed, detail incidental items to be furnished by the Contractor for a complete installation. Clearly identify conditions under which item replacement (damaged by contractor) is needed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 17748
	Specifications	Min Specs: Section A699
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **699- 1- AB** **INTERNALLY ILLUMINATED SIGN** **EA**

A=Operation
blank (Furnish & Install)

2 (Install)
3 (Modify)
4 (Relocate)

B = Sign type
1(Street Name)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0699 1 1	INTERNAL ILLUM SIGN, FURNISH & INSTALL, STREET NAME	EA		1/1/2010	
0699 1 21	INTERNAL ILLUM SIGN, INSTALL, ST NAME	EA	T	1/1/2010	
0699 1 31	INTERNAL ILLUM SIGN, MODIFY, ST NAME	EA	T	1/1/2010	
0699 1 41	INTERNAL ILLUM SIGN, RELOCATE, ST NAME	EA	T	1/1/2010	

700- 20- AB	SINGLE POST SIGN		
	Unit AS	**Accuracy** Assembly	**PlanQuantity?** no

Notes **Effective January 2010 letting, maximum panel area increased to 30 ft².**

Details

Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)…"

Back-to-Back and/or multiple signs on a single post: Select the sign panel size (B= 1, 2, 3) based on the combined total sign area.

VALID THROUGH DECEMBER 2009 LETTING: Standards limit single post sign area (wind resistance area from any one direction) to 20 ft².

EFFECTIVE JANUARY 2010 LETTING: Standards limit single post sign area (wind resistance area from any one direction) to 30 ft².

IN-STREET FLEXIBLE POST SIGN: Used for R1-6 crosswalk signs. All signs must meet MUTCD requirements. Recommended plan note: "In-street flexible post sign must meet MUTCD requirements." A maintenance agreement with the maintaining agency must be included with the project file.

B=9 Custom: For signs with a wind resistance area/ maximum projected area from any one direction greater than 20 ft², MULTI-POST SIGNS are recommended where site conditions allow installation. If project conditions require a single post sign greater than 30 ft², a custom (non-standard) sign may be used. Plan details will be needed. Verify with Roadway Design Office prior to using this pay item on a project.

Refer to design standards for single/multi-post requirements.

INSTALL: Install includes the installation of existing panel(s) on a new sign post. This item is used for signs furnished by FDOT or a local agency. The contractor will provide the post(s) and foundation, as needed to meet currect design standards.

RELOCATE: Relocate includes the removal of the sign assembly in accordance with the specifications, and the relocation/installation of the sign within the project limits, in accordance with the current design standards. If new sign post(s) are needed, they should be noted in the plans, and included in the cost of the relocated sign.

Remove: Includes the removal of the sign, post, and foundation. Do not use the "remove" operation for a sign that is to be relocated. Signs become the property of the contractor, unless otherwise noted in the plans or specs.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index Nos. 11200 series: 11200, 11300, 11310, 11320, 11860, 13417,

17302, 17328, 17344, 17345, 17346, 17347, 17349, 17350, 17351, 17352, 17354, 17355, 17356, 17357, 17359

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 20- AB** **SINGLE POST SIGN** **AS**

A= Operation
1 (Furnish & Install)
3 (Install) furnished by FDOT or local agency
4 (Relocate) B=0; relocated within project
6 (Remove) B=0

B= Sign Panel Size or Type
1 (less than 12 ft²)
2 (12-20 ft²)
3 (20+ back-to back)
4 (21-30 ft²) effective 1/2010
8 (In-Street Flexible Post) see details above
9 (Custom) see details above

Notes *B=9 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 20 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS		1/1/2010	
0700 20 12	SINGLE POST SIGN, F&I, 12-20 SF	AS		1/1/2010	
0700 20 13	SINGLE POST SIGN, F&I, 20 + BACK TO BACK SF	AS		1/1/2010	
0700 20 14	SINGLE POST SIGN, F&I, 21-35 SF	AS		1/1/2010	
0700 20 18	SINGLE POST SIGN, F&I, IN-STREET FLEXIBLE POST	AS	T	1/1/2010	
0700 20 19	SINGLE POST SIGN, F&I, NON - STANDARD	AS	T	1/1/2010	
0700 20 31	SINGLE POST SIGN, INSTALL, LESS THAN 12 SF	AS		1/1/2010	
0700 20 32	SINGLE POST SIGN, INSTALL, 12-20 SF	AS		1/1/2010	
0700 20 40	SINGLE POST SIGN, RELOCATE	AS		1/1/2010	
0700 20 60	SINGLE POST SIGN, REMOVE	AS		1/1/2010	

700- 21- AB MULTI-POST SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Effective with the January 2011 letting, refer to Roadway Design Bulletin 10-07 for business logo signs.**

Details Includes sign panel, posts, any foundation or breakaway base as required by the Design Standards or plans. The number and size of post and the average post length must be shown in the plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)…"

INSTALL: Install includes the installation of existing panel(s) on new sign posts. This item is

used for signs furnished by FDOT or a local agency. The contractor will provide the post(s) and foundation, as needed to meet currect design standards.

RELOCATE: Relocate includes the removal of the sign assembly in accordance with the specifications, and the relocation/installation of the sign within the project limits, in accordance with the current design standards. If new sign post(s) are needed, they should be noted in the plans, and included in the cost of the relocated sign.

Remove: Includes the removal of the sign, post, and foundation. Do not use the "remove" operation for a sign that is to be relocated. Signs become the property of the contractor, unless otherwise noted in the plans or specs.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index Nos. 11200 series: 11200, 11300, 11310, 11320, 11860, 13417, 17302, 17328, 17344, 17345, 17346, 17347, 17349, 17350, 17351, 17352, 17354, 17355, 17356, 17357, 17359
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 21- AB** **MULTI-POST SIGN** **AS**

A= Operation
1 (Furnish & Install)
3 (Install) Furnished by FDOT or local agency, installed on new contractor furnished posts
4 (Relocate) B=0
6 (Remove) B=0

B = Sign Panel Size, square feet
1 (50 or less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 to 250)
6 (251 to 300)
7 (over 300)
9 (Custom) non-standard sign

Notes *B=9 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 21 11	MULTI- POST SIGN, F&I, 50 SF OR LESS	AS		1/1/2010	
0700 21 12	MULTI- POST SIGN, F&I, 51 - 100 SF	AS		1/1/2010	
0700 21 13	MULTI- POST SIGN, F&I, 101 - 150 SF	AS		1/1/2010	
0700 21 14	MULTI- POST SIGN, F&I, 151 - 200 SF	AS		1/1/2010	
0700 21 15	MULTI- POST SIGN, F&I, 201 - 250 SF	AS		1/1/2010	
0700 21 16	MULTI- POST SIGN, F&I, 251 - 300 SF	AS		1/1/2010	
0700 21 17	MULTI- POST SIGN, F&I, GREATER THAN 300 SF	AS		1/1/2010	
0700 21 31	MULTI- POST SIGN, INSTALL, 50 SF OR LESS	AS		1/1/2010	
0700 21 32	MULTI- POST SIGN, INSTALL, 51 - 100 SF	AS		1/1/2010	
0700 21 33	MULTI- POST SIGN, INSTALL, 101 - 150	AS		1/1/2010	
0700 21 34	MULTI- POST SIGN, INSTALL, 151 - 200 SF	AS		1/1/2010	
0700 21 35	MULTI- POST SIGN, INSTALL, 201 - 250 SF	AS		1/1/2010	
0700 21 36	MULTI- POST SIGN, INSTALL, 251 - 300 SF	AS		1/1/2010	
0700 21 40	MULTI- POST SIGN, RELOCATE	AS		1/1/2010	
0700 21 60	MULTI- POST SIGN, REMOVE	AS		1/1/2010	

700- 22-ABC OVERHEAD TRUSS SPAN SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

FOR ITS APPLICATIONS, USE 780 items
****

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 7 and 29

Other

Standards

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 22-ABC** **OVERHEAD TRUSS SPAN SIGN** **AS**

A= Operation
1 (Furnish & Install)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Truss Span Length (feet)
1 (50 or less)
2 (51-100)
3 (101-150)
4 (151-200)
5 (Greater than 200)

C= Sign Panel Size (square feet)
1 (300 or less)
2 (301-500)
3 (501-700)
4 (Greater than 700)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 22111	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 50 OR LESS, SIGN AREA 300 OR LESS SF	AS		1/1/2010	
0700 22121	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 300 OR LESS SF	AS		1/1/2010	
0700 22122	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 301-500 SF	AS		1/1/2010	
0700 22123	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 501-700 SF	AS		1/1/2010	
0700 22124	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA >700 SF	AS		1/1/2010	
0700 22131	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 300 OR LESS SF	AS		1/1/2010	
0700 22132	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 301-500 SF	AS		1/1/2010	
0700 22133	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 501-700SF	AS		1/1/2010	

0700 22134	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA >700 SF	AS	1/1/2010
0700 22141	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 300 OR LESS SF	AS	1/1/2010
0700 22142	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 301-500SF	AS	1/1/2010
0700 22143	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 501-700SF	AS	1/1/2010
0700 22144	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA >700 SF	AS	1/1/2010
0700 22151	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 300 OR LESS	AS	1/1/2010
0700 22152	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 301-500	AS	1/1/2010
0700 22153	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 501-700SF	AS	1/1/2010
0700 22154	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA >700SF	AS	1/1/2010
0700 22400	OVERHEAD TRUSS SPAN SIGN, RELOCATE	AS	1/1/2010
0700 22500	OVERHEAD TRUSS SPAN SIGN, REPAIR	AS	1/1/2010
0700 22600	OVERHEAD TRUSS SPAN SIGN,REMOVE	AS	1/1/2010

700- 23-ABC OVERHEAD TRUSS CANTILEVER SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

FOR ITS APPLICATIONS, USE 780 items
****

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Ch 7 and 29
	Other	
	Standards	
	Specifications	
		Selected Items may require Plan Details and/or Technical Specifications
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 23-ABC** **OVERHEAD TRUSS CANTILEVER SIGN** **AS**

A= Operation
1 (Furnish & Install)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Truss Span Length (feet)
1 (30 or less)
2 (31-40)
3 (41-50)
4 (over 50)

C= Sign Panel Size (square feet)
1 (100 or less)
2 (101-200)
3 (201-300)
4 (Greater than 300)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 23111	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 100 OR <	AS		1/1/2010	
0700 23112	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 101-200	AS		1/1/2010	
0700 23113	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 201-300	AS		1/1/2010	
0700 23114	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S > 300	AS		1/1/2010	
0700 23121	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 31-40, S 100 OR LESS	AS		1/1/2010	
0700 23122	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 31-40, S 101-200	AS		1/1/2010	
0700 23123	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL, T 31-40, S 201-300	AS		1/1/2010	

0700 23124	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL, T 31-40, S GREATER THAN 300	AS	1/1/2010
0700 23131	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 100 OR <	AS	1/1/2010
0700 23132	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 101-200	AS	1/1/2010
0700 23133	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 201-300	AS	1/1/2010
0700 23134	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL TRUSS LENGTH 41-50, SIGN AREA >300	AS	1/1/2010
0700 23141	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 100 OR LESS	AS	1/1/2010
0700 23142	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 101-200 SF	AS	1/1/2010
0700 23143	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 201-300 SF	AS	1/1/2010
0700 23144	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA >300 SF	AS	1/1/2010
0700 23300	OVERHEAD TRUSS CANTILEVER SIGN, INSTALL	AS	1/1/2010
0700 23400	OVERHEAD TRUSS CANTILEVER SIGN, RELOCATE	AS	1/1/2010
0700 23600	OVERHEAD TRUSS CANTILEVER SIGN, REMOVE	AS	1/1/2010

700- 38-AAB SIGN LIGHTED OVERHEAD TRUSS- MONOTUBE

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Standards valid through 12-31-06**

Details Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 38-AAB** **SIGN LIGHTED OVERHEAD TRUSS- MONOTUBE** **AS**

AA = Length Of Sign Truss
01 (20 Or Less)
02 (21 - 40)
03 (41 - 60)
04 (61 - 80)
05 (81 - 100)
06 (101 - 120)
07 (121 - 140)
08 (141 - 160)
09 (161 - 180)
10 (181 - 200)
11 (201 - 220)

B = Square Footage Of Sign Panel
1 (100 Or Less)
2 (101 to 200)
3 (201 to 300)
4 (301 to 400)
5 (401 to 500)
6 (501 to 600)
7 (601 to 700)
8 (Over 700)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 38024	SIGN LT'D OVHD TRUSS-MONOTUBE, T 21-40,S301-400	AS		1/1/2010	
0700 38033	SIGN LT'D OVHD TRUSS-MONOTUBE, T 41-60,S201-300	AS		1/1/2010	
0700 38034	SIGN LT'D OVHD TRUSS-MONOTUBE, T 41-60,S301-400	AS		1/1/2010	
0700 38036	SIGN LT'D OVHD TRUSS-MONOTUBE, T 41-60,S501-600	AS		1/1/2010	
0700 38043	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S201-300	AS		1/1/2010	
0700 38044	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S301-400	AS		1/1/2010	
0700 38045	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S401-500	AS		1/1/2010	
0700 38048	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S >700	AS		1/1/2010	7/31/2010

0700 38054	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S301-400	AS	1/1/2010
0700 38055	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S401-500	AS	1/1/2010
0700 38056	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S 501-600	AS	1/1/2010
0700 38057	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S 601-700	AS	1/1/2010
0700 38058	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S OVER 700	AS	1/1/2010
0700 38063	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S 201-300	AS	1/1/2010
0700 38064	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S301-400	AS	1/1/2010
0700 38065	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120,S401-500	AS	1/1/2010
0700 38066	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120,S501-600	AS	1/1/2010
0700 38067	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S601-700	AS	1/1/2010
0700 38068	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120,S >700	AS	1/1/2010
0700 38075	SIGN LT'D OVHD TRUSS-MONOTUBE, T 121-140,S 401-500	AS	1/1/2010
0700 38094	SIGN LT'D OVHD TRUSS-MONOTUBE, T 161-180, S301-400	AS	1/1/2010

700- 39- AB SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Standards valid through 12-31-06**

Details Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 700- 39- AB SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE AS

A = Length Of Cantilever
1 (20 Or Less)
2 (21 - 30)
3 (31 - 40)
4 (41 - 50)
5 (51 - 60)
6 (61 - 70)
7 (71 - 80)
8 (81 - 90)

B = Square Footage Of Sign Panel
1 (50 Or Less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 - 250)
6 (251 - 300)
7 (Over 300)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 39 22	SIGN LT'D OVHD CTLVR-MONOTUBE, C 21-30, S 51-100	AS		1/1/2010	
0700 39 24	SIGN LT'D OVHD CTLVR-MONOTUBE, C 21-30, S 151-200	AS		1/1/2010	
0700 39 25	SIGN LT'D OVHD CTLVR-MONOTUBE, C 21-30, S 201-250	AS		1/1/2010	
0700 39 26	SIGN LT'D OVHD CTLVR-MONOTUBE, C 21-30, S 251-300	AS		1/1/2010	
0700 39 33	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31-40, S101-150	AS		1/1/2010	
0700 39 34	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31-40, S151-200	AS		1/1/2010	
0700 39 35	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31-40, S201-250	AS		1/1/2010	
0700 39 36	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31-40, S251-300	AS		1/1/2010	
0700 39 37	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31-40, S OVER 300	AS		1/1/2010	
0700 39 43	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41-50, S101-150	AS		1/1/2010	
0700 39 44	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41-50, S151-200	AS		1/1/2010	

0700 39 46	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41-50, S251-300	AS	1/1/2010
0700 39 47	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41-50, OVER 300	AS	1/1/2010
0700 39 56	SIGN LT'D OVHD CTLVR-MONOTUBE, C 51-60, S251-300	AS	1/1/2010
0700 39 57	SIGN LT'D OVHD CTLVR-MONOTUBE, C 51-60, OVER 300	AS	1/1/2010
0700 39 67	SIGN LT'D OVHD CTLVR-MONOTUBE, C 61-70, OVER 300	AS	1/1/2010
0700 39 74	SIGN LT'D OVHD CTLVR-MONOTUBE, C 71-80, S151-200	AS	1/1/2010

700- 46- AB EXISTING SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

The REMOVE item includes the removal of the sign panels and the complete support assembly.
The RELOCATE item includes the reinstallation of the complete assembly at the location shown in the plans.
The INSTALL item includes the installation of the assembly, at the location shown in the plans. Includes the breakaway base and foundation, if required for installation of the new assembly. For a multi-post assembly, the number and size of the post and the average post length must be shown in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 46- AB** **EXISTING SIGN** **AS**

A = Operation
1 (Remove)
2 (Relocate)
3 (Install)

B = Sign Assembly Type
5 (Span Wire)
6 (Bridge Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 46 15	SIGN EXISTING- REMOVE, SPAN WIRE	AS		1/1/2010	
0700 46 16	SIGN EXISTING- REMOVE, BRIDGE MOUNTED	AS		1/1/2010	
0700 46 25	SIGN EXISTING- RELOCATE, SPAN WIRE	AS		1/1/2010	
0700 46 26	SIGN EXISTING- RELOCATE, BRIDGE MOUNTED	AS		1/1/2010	

700- 48- AB SIGN PANEL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This item is for the sign panel only. For posts, structures, etc, refer to other Section 700 items.

The FURNISH AND INSTALL item includes the sign panel and materials required for installation on an existing post.

The INSTALL item includes the materials required for installation. The sign panel will be furnished. Install on an existing post.

The OVERLAY item includes the sign panel and the materials required for installation.

The RELOCATE item includes the removal of the sign panel and the reinstallation at the location noted in the plans.

The REPLACE item includes the new sign panel, the removal of the existing panel and the installation of the new panel. The REMOVE item includes the removal of the existing sign panel.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 48- AB** **SIGN PANEL** **EA**

A = Operation

1 (Furnish & Install)
2 (Install)
3 (Overlay)
4 (Relocate)
5 (Replace)
6 (Remove) B=0
7 (Furnish Only)

B = Square Footage Of Sign Panel
2 (101 to 200)
3 (201 to 300)
4 (301 to 400)
5 (401 to 500)
6 (501 to 600)
7 (601 or greater)
8 (15 Or Less)
9 (16 to 100)
0 (N/A)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 48 12	SIGN PANELS, F & I, 101 - 200	EA		1/1/2010	
0700 48 13	SIGN PANELS, F&I, 201 - 300	EA		1/1/2010	
0700 48 14	SIGN PANELS, F&I, 301 - 400	EA		1/1/2010	
0700 48 15	SIGN PANELS, F&I, 401 - 500	EA		1/1/2010	
0700 48 16	SIGN PANELS, F&I, 501 - 600	EA		1/1/2010	
0700 48 17	SIGN PANELS, F&I, 601 - 700	EA		1/1/2010	
0700 48 18	SIGN PANELS, F & I, 15 OR <	EA		1/1/2010	
0700 48 19	SIGN PANELS, F & I, 16 - 100	EA		1/1/2010	
0700 48 22	SIGN PANELS, INSTALL, 101 - 200	EA		1/1/2010	
0700 48 28	SIGN PANELS, INSTALL, 15 OR LESS	EA		1/1/2010	
0700 48 29	SIGN PANELS, INSTALL, 16 - 100	EA		1/1/2010	
0700 48 32	SIGN PANELS, OVERLAY, 101 - 200	EA		1/1/2010	
0700 48 33	SIGN PANELS, OVERLAY, 201-300	EA		1/1/2010	
0700 48 34	SIGN PANELS, OVERLAY, 301-400	EA		1/1/2010	
0700 48 35	SIGN PANELS, OVERLAY, 401-500	EA		1/1/2010	
0700 48 38	SIGN PANELS, OVERLAY, 15 OR LESS	EA		1/1/2010	
0700 48 39	SIGN PANELS, OVERLAY, 16 - 100	EA		1/1/2010	
0700 48 42	SIGN PANELS, RELOCATE, 101 - 200	EA		1/1/2010	
0700 48 43	SIGN PANELS, RELOCATE, 201 - 300	EA		1/1/2010	
0700 48 44	SIGN PANELS, RELOCATE, 301 - 400	EA		1/1/2010	
0700 48 45	SIGN PANELS, RELOCATE, 401 - 500	EA		1/1/2010	
0700 48 46	SIGN PANELS, RELOCATE, 501 - 600	EA		1/1/2010	
0700 48 47	SIGN PANELS, RELOCATE, 601 - 700	EA		1/1/2010	
0700 48 48	SIGN PANELS RELOCATE, 15 OR <	EA		1/1/2010	
0700 48 49	SIGN PANELS RELOCATE, 16 - 100	EA		1/1/2010	
0700 48 52	SIGN PANELS, REPLACE, 101 - 200	EA		1/1/2010	

0700 48 53	SIGN PANELS, REPLACE, 201 - 300	EA	1/1/2010
0700 48 54	SIGN PANELS, REPLACE, 301 - 400	EA	1/1/2010
0700 48 55	SIGN PANELS, REPLACE, 401 - 500	EA	1/1/2010
0700 48 56	SIGN PANELS, REPLACE, 501 - 600	EA	1/1/2010
0700 48 57	SIGN PANELS, REPLACE, 601 OR >	EA	1/1/2010
0700 48 58	SIGN PANELS, REPLACE, 15 OR LESS	EA	1/1/2010
0700 48 59	SIGN PANELS, REPLACE, 16 - 100	EA	1/1/2010
0700 48 60	SIGN PANELS, REMOVE	EA	1/1/2010

700- 70- SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Includes sign panels, overhead structure, sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Complete design and details of the structure and connections to the bridge must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 70-** **SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 70	SIGN LIGHTED OVERHEAD, BRIDGE MOUNTED	AS		1/1/2010	

700- 82- OVERHEAD SIGN- SPAN WIRE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This item includes sign panels, poles, span wire assembly and other incidentals required for a complete assembly. The type and length of the poles and the size of the span wires must be shown in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17356

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 82-** **OVERHEAD SIGN- SPAN WIRE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 82	OVERHEAD SIGN, SPAN WIRE MOUNTED	AS		1/1/2010	

700- 83- OVERHEAD SIGN- BRIDGE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This item includes sign panels, overhead structure, and incidentals required for a complete assembly. Complete design and details of the structure and connections to the bridge must be shown in the plans

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 83-** **OVERHEAD SIGN- BRIDGE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 83	OVERHEAD SIGN, BRIDGE MOUNTED	AS		1/1/2010	

700- 89- AA ELECTRIC POWERED SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

NOTE: not to be used for ITS projects; refer to 780 items for ITS systems
Refer to 699 items for Internally Illuminated signs.
Includes the complete sign assembly, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

"Special" signs to be approved by Roadway Design. Plan Details and/or Tech Specs required to provide materials, construction, and payment information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 89- AA** **ELECTRIC POWERED SIGN** **EA**

AA =
2 (Blank-Out)
3 (Changeable Message - Fiber Optics)*
4 (Changeable Message - Light Bulb Matrix)*
5 (Changeable Message - Electromagnetic Disk Matrix)*
6 (Changeable Message -Drum - Type)*
7 (Changeable Message - Vane Matrix)*
8 (Lane Control - Vane Matrix)
9 (Changeable Message - Flap Type)*
10 (Changeable Message - Tricolor)*

Notes * Consider ITS (780 items) for changeable message signs
** Special requires Tech Spec and/or Plan details. Do not use "Special" for Radar Display Sign Units; contact the Basis of Estimates Coordinator for the current status of this item.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 89 2	SIGN, ELECTRIC POWERED, BLANK OUT	EA		1/1/2010	

700- 90- AB SIGN, FLASHING BEACON

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Includes the complete sign, flashing beacon, flashing beacon controller, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17344, 17882, 17881

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 90- AB** **SIGN, FLASHING BEACON** **AS**

A = Operation
1 (Furnish & Install)
2 (Relocate)
3 (Remove)

B = Sign Type
1 (Ground Mount)
2 (Overhead Mount)
3 (Bridge Mount)
4 (Span Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0700 90 11	SIGN FLASHING BEACON, F&I GROUND MOUNT	AS		1/1/2010	
0700 90 12	SIGN FLASHING BEACON, F&I, OVERHEAD MOUNT	AS		1/1/2010	
0700 90 13	SIGN FLASHING BEACON, F&I, BRIDGE MOUNT	AS		1/1/2010	
0700 90 14	SIGN FLASHING BEACON, F&I, SPAN WIRE	AS		1/1/2010	
0700 90 21	SIGN FLASHING BEACON, RELOCATE, GROUND MOUNT	AS		1/1/2010	
0700 90 31	SIGN FLASHING BEACON, REMOVE, GROUND MOUNT	AS		1/1/2010	
0700 90 32	SIGN FLASHING BEACON, REMOVE, OVERHEAD MOUNT	AS		1/1/2010	
0700 90 34	SIGN FLASHING BEACON, REMOVE, SPAN WIRE	AS		1/1/2010	

701- 1A-BCD AUDIBLE AND VIBRATORY PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details

Refer to May 9, 2008 Estimates Bulletin 08-07/Roadway Bulletin 08-05.

For use on "all rural construction projects, excluding limited access facilities". More specifically, "OUTSIDE EDGE line for all 2-lane and multi-lane undivided rural projects" (From FDOT Executive Committee Policy, approved March 19, 2008)

CENTERLINE: Audible and Vibratory pavement markings should be used on centerline of two lane rural roadways ONLY when there is a history of centerline cross over crashes.

Other applications: Audible and Vibratory markings shall also be considered on flush shoulder roadways within Urban 2 and Urban 3 boundaries; noise is the primary consideration in these areas.

****
Longitudinal stripes (along the direction of traffic) are normally applied by truck; these stripes are paid per NET MILE(solid) or GROSS MILE (skip). Most of these stripes are 6" in width. 3-9 and 10-30 skip stripes are included in the gross mile measurement. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

Refer to the specification for complete Method of Measurement information.
Accuracy: GM and NM items are measured to 1/1000 of a mile.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **701- 1A-BCD** **AUDIBLE AND VIBRATORY PAVEMENT MARKINGS** **Mixed**

A= Class
1 (Standard)

B= Color
1 (White)
2 (Yellow)

C= Type of Marking
1 (Solid) NM
2 (Skip) GM

D= Width
1 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0701 11111	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,WHITE, SOLID, 6"	NM		1/1/2010	
0701 11121	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,WHITE, SKIP, 6"	GM		1/1/2010	
0701 11211	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,YELLOW, SOLID, 6"	NM		1/1/2010	
0701 11221	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD, YELLOW, SKIP,6"	GM		1/1/2010	

702- 1A-BCD **WET WEATHER PAVEMENT MARKINGS**

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?**

Notes **Effective August 2011 letting, per Mandatory Specification change.**
Use of this item must be approved by the Monitor.

Details Monitor: Chester Henson, State Roadway Design Office

DETAIL INFORMATION UNDER REVIEW, PENDING SPECIFICATION DEVELOPMENT
Contact the monitor before loading this item on any project. Refer to items 906-702 and 701 for general guidance.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **702- 1A-BCD** **WET WEATHER PAVEMENT MARKINGS** **Mixed**

A= Class
1 (Standard)
2 (with Audible)

B= Color
1 (White)
2 (Yellow)

C= Type
1 (Solid) NM
2 (Skip) GM

D= Width
1 (6")

Notes formerly known as INVERTED RIB PROFILE MARKINGS

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0702 11111	WET WEATHER MARKINGS, SOLID, WHITE, 6"	NM	T	1/1/2010	
0702 11121	WET WEATHER MARKINGS, SKIP, WHITE, 6"	GM	T	1/1/2010	
0702 11211	WET WEATHER MARKINGS, SOLID, YELLOW, 6"	NM	T	1/1/2010	
0702 11221	WET WEATHER MARKINGS, SKIP, YELLOW, 6"	GM	T	1/1/2010	
0702 12111	WET WEATHER AND AUDIBLE MARKINGS, SOLID, WHITE, 6"	NM	T	1/1/2010	
0702 12121	WET WEATHER AND AUDIBLE MARKINGS, SKIP, WHITE, 6"	GM	T	1/1/2010	
0702 12211	WET WEATHER AND AUDIBLE MARKINGS, SOLID, YELLOW, 6"	NM	T	1/1/2010	
0702 12221	WET WEATHER AND AUDIBLE MARKINGS, SKIP, YELLOW, 6"	GM	T	1/1/2010	

705- 10- A **OBJECT MARKER**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Object Markers are to be used to mark obstructions within or adjacent to the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the MUTCD, Chapter 3C.
****
Refer to Delineators for marking the roadway alignment
****
Reflective Railing Markers, as shown on Index 420, 421, and 422, are included in the cost of the railing; no separate payment is made for these markers.

Related Items **Required** **Recommended** 705-11

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, 7.2.9

Other

Standards Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **705- 10- A** **OBJECT MARKER** **EA**

A= Type*
1 (Type 1)
2 (Type 2)
3 (Type 3)
4 (Type 4)

Notes *Note: The Type is defined in the MUTCD, Chapter 3C.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0705 10 1	OBJECT MARKER, TYPE 1	EA		1/1/2010	
0705 10 2	OBJECT MARKER, TYPE 2	EA		1/1/2010	
0705 10 3	OBJECT MARKER, TYPE 3	EA		1/1/2010	
0705 10 4	OBJECT MARKER, TYPE 4	EA		1/1/2010	

705- 11- A DELINEATOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Delineators are to be used along the side of the roadway to indicate the alignment of the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the Plans Preparation Manual (PPM) Vol 1, Chapter 7, and the MUTCD,

Chapter 3D.

The Department uses delineators to mark median opening for both rural and urban openings. In general, flexible delineators are used on urban median openings and nonflexible
are used on rural median openings. A high visibility median delineator should be used on traffic separators in the following locations:
1. At multilane intersections where additional visibility is required for the marking of the traffic separator,
2. Where the separator is obstructed due to crest vertical curves,
3. At intersections where the alignment thru the intersection is not straight, and
4. Where traditional flexible delineators are constantly being replaced.

High visibility median delineators can be specified for urban median separators.

High performance delineators should be used in all applications where the delineator is being used to maintain lane positions, restrict vehicle movements or any other area where the delineator is subject to being frequently hit.
****
Refer to Object Markers to mark obstructions.
****
Reflective Railing Markers, as shown on Index 420, 421, and 422, are included in the cost of the railing; no separate payment is made for these markers.

Related Items **Required** **Recommended** 705-10

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, 7.2.9

Other

Standards Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **705- 11- A** **DELINEATOR** **EA**

A= Type, see above for selection guidance
1 (Flexible Tubular)
2 (non-Flexible)
3 (Flexible High Visibility Median)
4 (Flexible High Performance)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA		1/1/2010	
0705 11 2	DELINEATOR, NON-FLEXIBLE	EA		1/1/2010	
0705 11 3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA		1/1/2010	
0705 11 4	DELINEATOR, FLEXIBLE HIGH PERFORMANCE	EA		1/1/2010	

706- 3- RETRO-REFLECTIVE PAVEMENT MARKER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Refer to 710- 90 for final surface payment.
Use Type B, unless otherwise shown in the plans. Use Pavement markers to supplement lane lines and gore markings, as shown on design standards.

BLUE RPMs: Refer to the Traffic Engineering Manual, Section 4.3. Note that blue RPMs are installed and maintained by local agencies.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17345, 17352

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **706- 3-** **RETRO-REFLECTIVE PAVEMENT MARKER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA		1/1/2010	

708- OPTIONAL STRIPE

Unit **Accuracy** **PlanQuantity?**

Notes **Reserved pay item group for possible new specification. No pay items valid at this time.**

Details

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **708-** **OPTIONAL STRIPE**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

709- 1A-BCD TRAFFIC STRIPE- TWO REACTIVE COMPONENTS

Unit EA, LF, GM, NM; GK, NK **Accuracy** Each; Linear Foot; 1/1000 mile **PlanQuantity?**

Notes

Details Consists of "Two Reactive Component Traffic Stripe and Markings" used in areas representing final and work zone pavement markings.
Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

****
CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be

included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN", Bike symbol and wheelchair/"Universal Symbol of Accessibility". Additional messages shown on index 17346.

Refer to the Specification for the complete Method of Measurement.

ACCURACY: LF items are measured to the nearest Linear Foot; Mile items are measured to 1/1000th of a mile; and Square Foot items are measured to the nearest square foot.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	700-050-52
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, 7.2.8 for material selection guidance
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **709- 1A-BCD** **TRAFFIC STRIPE- TWO REACTIVE COMPONENTS** **EA, LF, GM,**

A= Class
1 (Standard)
7 (Remove) SF Note: When A=7, BCD= Blank

B=Color
1 (White)
2 (Yellow)
3 (Black)

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM

4 (Skip) LF
5 (Dotted/Guideline/6-10 Gap Extension) LF

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0709 11111	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 6"	NM		1/1/2010	
0709 11123	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 12"	LF		1/1/2010	
0709 11124	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 18"	LF		1/1/2010	
0709 11125	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 24"	LF		1/1/2010	
0709 11131	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SKIP, 6"	GM		1/1/2010	
0709 11211	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 6"	NM		1/1/2010	
0709 11222	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 8"	LF		1/1/2010	
0709 11224	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 18"	LF		1/1/2010	

710- 1A-BCD PAINTED PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Effective July 2010, Durable Paint is valid for use on Maintenance Contracts Only.**

Details Consists of paint used in areas representing final and work zone pavement markings. Broken (skip) stripes shall consist of a succession of solid stripes.

Durable Paint is valid for use on Maintenance Contracts Only. Refer to the special provisions for current requirements.
****
Measurement and Payment for Pavement Markings:
Longitudinal stripes (along the direction of traffic) are normally applied by truck; these stripes are paid per NET MILE(solid) or GROSS MILE (skip). Most of these stripes are 6" in width. 3-9 and 10-30 skip stripes are included in the gross mile measurement. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the

specifications.

Transverse stripes (across the direction of traffic) are applied by walking with a hand operated machine; these stripes are paid per linear foot. Most of these stripes are 8"-24" wide. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

Dotted, 2-4 Guideline, and 6-10 Gap Extension Through Cross-over Area stripes are also paid per LF, due to the walking/hand application required. Most of these stripes are 6" wide.

APPROACH TO TOLL PLAZA: 12" wide Longitudinal lines used for the approach to toll plaza are paid per mile.

Non-standard stripe applications should be coordinated with the State Roadway Design Office, prior to including notes/items in the plans.
****
CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed). Use Maintenance item E710-17.

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN", Bike symbol and wheelchair/"Universal Symbol of Accessibility". Additional messages shown on index 17346. BLUE markings (accessible parking) will be paid per LF or EA.

Refer to the Specification for the complete Method of Measurement.

ACCURACY: LF items are measured to the nearest Foot; NM and GM items are measured to 1/1000th of a mile (about +/-5 ft); and SF items are measured to the nearest square foot.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	700-050-52
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **710- 1A-BCD** **PAINTED PAVEMENT MARKINGS** **Mixed**

A= Class
1 (Standard)
2 (Durable) for Maintenance Contracts Only
7 (Remove) SF, BCD=blank. Maintenance use only; see details above.

B= Color
1 (White)
2 (Yellow) C=1, 2, 3, 4, 5, 9
3 (Black)
4 (Blue) C=2, 6

C= Type of Marking
1 (Solid) NM; D = 1
2 (Solid) LF; D = 2, 3, 4, 5
3 (Skip) GM; D= 1 or 2*

5 (Dotted / Guide line/ 6-10 Gap Extension) LF; D=1*
6 (Message) EA; D=0, Includes YIELD message
7 (Arrows) EA; D=0
8 (Yield Line) LF; D=0 see details above
9 (Island Nose) SF; D=0

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0710 11111	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	NM		1/1/2010	
0710 11122	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	LF		1/1/2010	
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF		1/1/2010	
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	LF		1/1/2010	
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF		1/1/2010	
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6"	GM		1/1/2010	

0710 11132	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 8" LANE DROP	GM	1/1/2010
0710 11133	PAINTED PVMT MARK, STANDARD, WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA	GM	1/1/2010
0710 11142	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 8"	LF	1/1/2010
0710 11151	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, DOTTED / GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE	EA	1/1/2010
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	1/1/2010
0710 11180	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, YIELD LINE	LF	1/1/2010
0710 11190	PAINTED PAVEMENT MARKINGS,STANDARD,WHITE,ISLAND NOSE	SF	1/1/2010
0710 11211	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	NM	1/1/2010
0710 11222	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 8"	LF	1/1/2010
0710 11223	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 12"	LF	1/1/2010
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF	1/1/2010
0710 11225	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 24"	LF	1/1/2010
0710 11231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	1/1/2010
0710 11251	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, DOTTED/ GUIDELINE/6-10 GAP EXTENSION, 6"	LF	1/1/2010
0710 11260	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, MESSAGE NOSE	EA	1/1/2010
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	1/1/2010
0710 11311	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SOLID, 6"	NM	1/1/2010
0710 11331	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 6"	GM	1/1/2010
0710 11342	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 8"	LF	1/1/2010
0710 11351	PAINTED PAVEMENT MARKINGS, STANDARD, BLACK, DOTTED / GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0710 11421	PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, SOLID, 6"	LF	1/1/2010
0710 11460	PAINTED PAVEMENT MARKINGS, STANDARD,BLUE, MESSAGE	EA	1/1/2010

710- 90- PAINTED PAVEMENT MARKINGS- FINAL SURFACE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes **Effective July 2009, some districts will be using Thermoplastic in Construction contracts. Coordinate with District Design for district specific policy.**

Details Includes payment for painted final surface pavement markings (1 or 2 applications of 710 paint), including RPMs (1 application). The number of applications will be indicated in the specifications, depending upon whether thermoplastic will be applied during construction or maintenance operations. Coordinate with District Design for district specific policy.

DOES NOT include pavement markings used for Maintenance of Traffic. Must continue to use other 710 items for MOT applications.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction 700-050-52

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **710- 90-** **PAINTED PAVEMENT MARKINGS- FINAL SURFACE** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS		1/1/2010	

711- 1A-BCD THERMOPLASTIC PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Effective July 2009, some districts will be using Thermoplastic in Construction contracts. Coordinate with District Design for district specific policy.**

Details Consists of Thermoplastic used for permanent pavement markings. Thermoplastic may be used on construction projects, in accordance with District specific policy.

Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

Longitudinal stripes (along the direction of traffic) are normally applied by truck; these stripes are paid per NET MILE(solid) or GROSS MILE (skip). Most of these stripes are 6" in width. 3-9 and 10-30 skip stripes are included in the gross mile measurement. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

Transverse stripes (across the direction of traffic) are applied by walking with a hand operated machine; these stripes are paid per linear foot. Most of these stripes are 8"-24" wide. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

Dotted, 2-4 Guideline, and 6-10 Gap Extension Through Cross-over Area stripes are also paid per LF, due to the walking/hand application required. Most of these stripes are 6" wide.

Non-standard stripe applications should be coordinated with the State Roadway Design Office, prior to including notes/items in the plans.

****
CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

SUN PASS LANES: The 3-9 skip, 12" wide, per GM is used to designate a sun pass lane or similar approach to a toll plaza.

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN", Bike symbol and wheelchair/"Universal Symbol of Accessibility". Additional messages shown on index 17346. BLUE markings (accessible parking) will be paid per LF or EA.

Refer to the Specification for the complete Method of Measurement.

ACCURACY: LF items are measured to the nearest Linear Foot; Mile items are measured to 1/1000th of a mile; and Square Foot items are measured to the nearest square foot.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.

For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	700-050-52
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, 7.2 for material selection and guidance
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **711- 1A-BCD** **THERMOPLASTIC PAVEMENT MARKINGS** **Mixed**

A=Class
1 (Standard)
2 (Refurbishment)
3 (Hot Spray)
4 (Preformed)
7 (Remove) SF Note: When A=7, BCD=blank. See details above.

B=Color
1 (White)
2 (Yellow) C=1,2,3,4,5
3 (Black) **
4 (Blue) C=2,6

**B=3 not valid as of 12-15-05; use 710 items.

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM, D=1, 2, 3
4 (Skip) LF, D=1, 2 Note: Do not use for longitudinal stripe (C=3) or Dotted/guideline (C=5) applications.
5 (Dotted/Guideline/6-10 Gap Extension) LF D=1
6 (Message) EA Includes Yield Messages
7 (Arrows) EA ; D=0
8 (Yield Line) LF, D=0

***when C= 6, 7, or 8, D=0

D= Width
1 (6")
2 (8")
3 (12")
4 (18")

5 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0711 11111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	NM		1/1/2010	
0711 11112	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	NM		1/1/2010	
0711 11122	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	LF		1/1/2010	
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF		1/1/2010	
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	LF		1/1/2010	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF		1/1/2010	
0711 11131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM		1/1/2010	
0711 11132	THERMOPLASTIC, STANDARD, WHITE, 3-9 SKIP, 8"	GM		1/1/2010	
0711 11133	THERMOPLASTIC, STANDARD, WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA	GM		1/1/2010	
0711 11142	THERMOPLASTIC, STANDARD, WHITE, SKIP, 8"	LF		1/1/2010	
0711 11143	THERMOPLASTIC, STANDARD, WHITE, SKIP, 12"	LF		1/1/2010	
0711 11151	THERMOPLASTIC, STANDARD, WHITE, DOTTED/GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF		1/1/2010	
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA		1/1/2010	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA		1/1/2010	
0711 11180	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	LF		1/1/2010	
0711 11211	THERMOPLASTIC, STANDARD,YELLOW, SOLID, 6"	NM		1/1/2010	
0711 11222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 8"	LF		1/1/2010	
0711 11223	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 12"	LF		1/1/2010	
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF		1/1/2010	
0711 11225	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 24"	LF		1/1/2010	
0711 11231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM		1/1/2010	

0711 11251	THERMOPLASTIC, STANDARD, YELLOW, DOTTED / GUIDELINE /6-10 GAP EXTENSION, 6"	LF	1/1/2010
0711 11421	THERMOPLASTIC, STANDARD, BLUE, SOLID,6"	LF	1/1/2010
0711 11460	THERMOPLASTIC, STANDARD, BLUE, MESSAGE	EA	1/1/2010
0711 12111	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 6"	NM	1/1/2010
0711 12121	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 6"	LF	1/1/2010
0711 12122	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 8"	LF	1/1/2010
0711 12123	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 12"	LF	1/1/2010
0711 12124	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 18"	LF	1/1/2010
0711 12125	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 24"	LF	1/1/2010
0711 12131	THERMOPLASTIC, REFURBISHMENT, WHITE, SKIP, 6"	GM	1/1/2010
0711 12151	THERMOPLASTIC, REFURBISHMENT, WHITE, DOTTED/ GUIDELINE /6-10 GAP EXTENSION, 6"	LF	1/1/2010
0711 12160	THERMOPLASTIC, REFURBISH, WHITE, MESSAGE	EA	1/1/2010
0711 12170	THERMOPLASTIC, REFURBISH, WHITE, ARROWS	EA	1/1/2010
0711 12211	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 6"	NM	1/1/2010
0711 12221	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 6"	LF	1/1/2010
0711 12222	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 8"	LF	1/1/2010
0711 12223	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 12"	LF	1/1/2010
0711 12224	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 18"	LF	1/1/2010
0711 12225	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 24"	LF	1/1/2010
0711 12231	THERMOPLASTIC, REFURBISHMENT, YELLOW, SKIP, 6"	GM	1/1/2010
0711 12241	THERMOPLASTIC, REFURBISHMENT, YELLOW, SKIP, 6"	LF	1/1/2010
0711 12251	THERMOPLASTIC, REFURBISHMENT, YELLOW DOTTED / GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0711 13111	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 6"	NM	1/1/2010
0711 13122	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 8"	LF	1/1/2010

0711 13123	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 12"	LF	1/1/2010
0711 13124	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 18"	LF	1/1/2010
0711 13125	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 24"	LF	1/1/2010
0711 13131	THERMOPLASTIC, HOT SPRAY, WHITE, SKIP, 6"	GM	1/1/2010
0711 13151	THERMOPLASTIC, HOT SPRAY, WHITE, DOTTED /GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0711 13160	THERMOPLASTIC, HOT SPRAY, WHITE, MESSAGE	EA	1/1/2010
0711 13170	THERMOPLASTIC, HOT SPRAY, WHITE, ARROW	EA	1/1/2010
0711 13211	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 6"	NM	1/1/2010
0711 13222	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 8"	LF	1/1/2010
0711 13223	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 12"	LF	1/1/2010
0711 13224	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 18"	LF	1/1/2010
0711 13225	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 24"	LF	1/1/2010
0711 13231	THERMOPLASTIC, HOT SPRAY, YELLOW, SKIP, 6"	GM	1/1/2010
0711 13251	THERMOPLASTIC, HOT SPRAY, YELLOW, DOTTED / GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0711 14122	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 8"	LF	1/1/2010
0711 14123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12"	LF	1/1/2010
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24"	LF	1/1/2010
0711 14131	THERMOPLASTIC, PREFORMED, WHITE, SKIP, 6"	GM	1/1/2010
0711 14141	THERMOPLASTIC, PREFORMED, WHITE, SKIP, 6"	LF	1/1/2010
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	1/1/2010
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	1/1/2010
0711 14222	THERMOPLASTIC, PREFORMED,YELLOW,SOLID, 8"	LF	1/1/2010
0711 14224	THERMOPLASTIC, PREFORMED,YELLOW,SOLID,18"	LF	1/1/2010
0711 17	THERMOPLASTIC, REMOVE	SF	1/1/2010

713-1AA-BCD PAVEMENT MARKING- PREFORMED TAPE

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details

Consists of Preformed Tape used for permanent pavement markings; it should be considered for use on concrete surfaces. For MOT (Maintenance of Traffic) operations, "temporary" removable tape should be paid under 102-911- and 102-912- items.

High performance tapes are required for longitudinal markings; standard tapes are limited to transverse lines, arrows, and messages.

Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

Longitudinal stripes (along the direction of traffic) are normally applied by truck; these stripes are paid per NET MILE(solid) or GROSS MILE (skip). Most of these stripes are 6" in width. 3-9 and 10-30 skip stripes are included in the gross mile measurement. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

Transverse stripes (across the direction of traffic) are applied by walking with a hand operated machine; these stripes are paid per linear foot. Most of these stripes are 8"-24" wide. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

Dotted, 2-4 Guideline, and 6-10 Gap Extension Through Cross-over Area stripes are also paid per LF, due to the walking/hand application required. Most of these stripes are 6" wide.

Non-standard stripe applications should be coordinated with the State Roadway Design Office, prior to including notes/items in the plans.

****
WHITE W/BLACK CONTRAST: The white with black contrast stripe is normally used as above for 6" stripe, although the total width is 9" (a 6" white stripe, plus additional black material to improve contrast). Similarly, for 8" contrast applications, the 11" total with stripe is available. Contrast markings also available for arrows, messages, and dotted/guidelines.

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be

paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN", Bike symbol and wheelchair/"Universal Symbol of Accessibility". Additional messages shown on index 17346.

Refer to the Specification for the complete Method of Measurement.

ACCURACY: LF items are measured to the nearest Linear Foot; Mile items are measured to 1/1000th of a mile; and Square Foot items are measured to the nearest square foot.

TRNS*PORT quantities:
For Category 0200- MOT, continue to use 710 and 102-78 items.
For Category 0300- Signing and Pavement Markings , include either item 710-90, or pay item(s) for final marking materials, as called for in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	700-050-52
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, 7.2 for material selection and guidance
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **713-1AA-BCD** **PAVEMENT MARKING- PREFORMED TAPE** **Mixed**

AA= Class
01 (Standard) Transverse markings only, per spec
02 (High Performance) req'd for longitudinal stripe, per spec
07 (Removal) SF, BCD=blank

B= Color
1 (White)
2 (Yellow)
3 (Black)
4 (Blue)
5 (White w/Black Contrast) D=0 (arrows, messages, dotted/guidelines), 3 or 7

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted / Guideline) LF
6 (Messages) EA, D=0
7 (Arrows) EA, D=0

D= Width
0 when C=6, 7
1 (6")

2 (8")
3 (9") valid for 6" white/black contrast applications only, B=5
4 (12")
5 (18")
6 (24")
7 (11") valid for 8" white/black contrast applications only, B=5

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0713101111	PREFORMED TAPE, STANDARD, WHITE, SOLID, 6"	NM		1/1/2010	
0713101122	PREFORMED TAPE, STANDARD, WHITE, SOLID, 8"	LF		1/1/2010	
0713101124	PREFORMED TAPE, STANDARD, WHITE, SOLID, 12"	LF		1/1/2010	
0713101125	PREFORMED TAPE, STANDARD, WHITE, SOLID, 18"	LF		1/1/2010	
0713101126	PREFORMED TAPE, STANDARD, WHITE, SOLID, 24"	LF		1/1/2010	
0713101151	PREFORMED TAPE, STANDARD, WHITE, DOTTED/ GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF		1/1/2010	
0713101160	PREFORMED TAPE, STANDARD, WHITE, MESSAGE	EA		1/1/2010	
0713101170	PREFORMED TAPE, STANDARD, WHITE, ARROWS	EA		1/1/2010	
0713101211	PREFORMED TAPE, STANDARD, YELLOW,SOLID, 6"	NM		1/1/2010	
0713101222	PREFORMED TAPE, STANDARD, YELLOW, SOLID, 8"	LF		1/1/2010	
0713101225	PREFORMED TAPE, STANDARD, YELLOW, SOLID, 18"	LF		1/1/2010	
0713101251	PREFORMED TAPE, STANDARD, YELLOW, DOTTED/ GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF		1/1/2010	
0713101560	PREFORMED TAPE, STANDARD, WHITE W/BLACK CONTRAST, MESSAGE	EA		1/1/2010	
0713102111	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 6"	NM		1/1/2010	
0713102122	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 8"	LF		1/1/2010	
0713102124	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 12"	LF		1/1/2010	
0713102126	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 24"	LF		1/1/2010	
0713102131	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SKIP, 6"	GM		1/1/2010	
0713102142	PREFORMED TAPE, HP, WHITE, SKIP, 8"	LF		1/1/2010	

0713102151	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, DOT/GUIDELINE/ 6-10 GAP EXTENSION, 6"	LF	1/1/2010
0713102211	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SOLID, 6"	NM	1/1/2010
0713102222	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SOLID, 8"	LF	1/1/2010
0713102231	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SKIP, 6"	GM	1/1/2010
0713102251	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, DOT/GUIDE/ 6-10 GAP, 6"	LF	1/1/2010
0713102331	PREFORMED TAPE, HIGH PERFORMANCE, BLACK, SKIP, 6"	GM	1/1/2010
0713102533	PREFORMED TAPE, HIGH PERFORMANCE, WHITE/BLACK CONTRAST, SKIP, 9"	GM	1/1/2010
0713102537	PREFORMED TAPE, HIGH PERFORMANCE, WHITE W/BLACK CONTRAST, SKIP, 11"	GM	1/1/2010
0713102547	PREFORMED TAPE, HIGH PERFORMANCE, WHITE/BLACK CONTRAST, SKIP, 11"	LF	1/1/2010
0713102553	PREFORMED TAPE, HIGH PERFORMANCE, WHITE/BLACK CONTRAST, DOTTED/GUIDELINE/6-10 GAP EXTENSION , 9"	LF	1/1/2010
0713103160	PREFORMED TAPE, TEMPORARY, WHITE, MESSAGE	EA	1/1/2010
0713103170	PREFORMED TAPE, TEMPORARY, WHITE, ARROWS	EA	1/1/2010
0713107	PREFORMED TAPE, REMOVE	SF	1/1/2010

714- 1-ABC MOTORIST AID CALL BOX

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

New installations- estimate quantity on basis of 2 per mile (1 per 804 meters) in project length for rural areas.

For projects let through June 2009: Per Index, concrete pad is paid under Class II concrete, Misc.

For projects let July 2009 and later: Concrete pad is included in cost of call box assembly. Refer to updated design standards.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 17600

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 1-ABC** **MOTORIST AID CALL BOX** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Modify Existing Roadside Terminal) BC=00
5 (Relocate Existing Roadside Terminal) BC=00
6 (Remove) BC=00
7 (Refurnish) BC=00

B = Installation Type
1 (Roadside Call Terminal)
2 (Call Box Assembly)
3 (Central Terminal)

C = Form
1 (Coded Message, Radio)
2 (Coded Message, Wire)
3 (Voice, Radio)
4 (Voice, Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0714 1121	MOTORIST AID CALL BOX, F&I, ROADSIDE CALL TERMINAL, CODED MESSAGE RADIO	AS	T	1/1/2010	
0714 1123	MOTORIST AID CALL BOX, F&I, CALL BOX ASSEMBLY, VOICE, RADIO	AS	T	1/1/2010	
0714 1300	MOTORIST AID CALL BOX, INSTALL	AS		1/1/2010	
0714 1400	MOTORIST AID CALL BOX, MODIFY EXISTING ROADSIDE TERMINAL	AS		1/1/2010	
0714 1413	MOTORIST AID CALL BOX, MODIFY, ROADSIDE CALL TERMINAL, VOICE RADIO	AS		1/1/2010	
0714 1500	MOTORIST AID CALL BOX, RELOCATE	AS		1/1/2010	
0714 1600	MOTORIST AID CALL BOX, REMOVE	AS	T	1/1/2010	

714- 2- A MOTORIST AID CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 2- A** **MOTORIST AID CONSOLE** **EA**

A = Form
1 (Coded Message, Radio)
2 (Coded Message, Wire)
3 (Voice, Radio)
4 (Voice, Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 3- AB MOTORIST AID COMPONENTS (F&I) CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 3- AB** **MOTORIST AID COMPONENTS (F&I) CONSOLE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) Not Valid W/ B= 2, 3, & 4.

B = Form
1 (Antenna)
2 (290' Guyed Tower)
3 (190' Guyed Tower)
4 (190' Self Support Tower)
5 (Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 4-ABB MOTORIST AID MICROWAVE COMPONENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 4-ABB** **MOTORIST AID MICROWAVE COMPONENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

BB =
01 (10,000 F9 Microwave 1.9 GHz)
02 (1,600 F9 Microwave 2.9 GHz)
03 (800 F9 Microwave 2.1 GHz)
04 (10,000 F9 Microwave 6.5 GHz)
05 (Master Alarm System)
06 (District Alarm System)
07 (Alarm Monitor)
08 (6' Grid Microwave Antenna)
08 (6' Grid Microwave Antenna)
09 (8' Grid Microwave Antenna)
10 (10' Grid Microwave Antenna)
11 (10' Solid Microwave Antenna)
12 (72 MHz Antenna)
13 (150-170 MHz Antenna)
14 (40- 50 MHz Antenna)
15 (450-460 MHz Antenna)
16 (CB Antenna)
17 (1/2" Foam Connectors)
18 (7/8" Air Connectors)
19 (Dehydrator And Manifold)
20 (1 5/8" Air Connectors)
21 (72 MHz Base Station)
22 (Waveguide Connectors)
23 (DTMF Call Unit)
24 (DTMF Card / Phone)
25 (Power Divider Harness)
26 (Transmitter Combiner)
27 (Receiver Multicoupler)
28 (6 GHz Digital Radio)
29 (10 GHz Digital Radio)
30 (8' Solid Microwave Antenna)
31 (6' Solid Microwave Antenna)
32 (4' Solid Microwave Antenna)
33 (72 MHz Antenna, High Gain)
34 (Phone Ringing Generator)
35 (10 GHz Waveguide Connector)
36 (Phone System)
37 (Channel Modem, Analog)
38 (Channel Modem, Digital)
39 (Pressurized Connector)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 5-ABB	**MOTORIST AID MICROWAVE TOWER**		
	Unit EA	**Accuracy** Each	**PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 5-ABB** **MOTORIST AID MICROWAVE TOWER** **EA**

A = Operation
1 (Furnish & Install)
2 (Transport)
3 (Disassemble)
4 (Modify) BB = 00

BB = Tower Height
10 (51' - 75')
11 (76' -100')
12 (101' -125')
13 (126' -150')
14 (151' -175')
15 (176' -200')
16 (201' -225')
17 (226' -250')
18 (251' -275')
19 (276' -300')
20 (301' -325')
21 (326' -350')
22 (351' -375')
23 (376' -400')
24 (401' -425')
25 (426- 450')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 7- A **MOTORIST AID TRANSMISSION LINES**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 7- A** **MOTORIST AID TRANSMISSION LINES** **LF**

A =
1 (1/2" Foam Transmission Line)
2 (7/8" Air Transmission Line)
3 (1 5/8" Air Transmission Line)
4 (2.01" X 1.16" Elliptic Waveguide)
5 (7/8" Foam Transmission Line)
6 (1.32" X .80" 10 GHz Elliptical Waveguide)
7 (1 5/8" Foam Transmission Line)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 8- A** **MOTORIST AID MICROWAVE COMMUNICATION SHELTER** **EA**

A = Area In Square Feet
1 (<100 Sq. Ft. Shelter)
2 (100-125 Sq. Ft. Shelter)
3 (126-150 Sq. Ft. Shelter)
4 (151-175 Sq. Ft. Shelter)
5 (176-200 Sq. Ft. Shelter)
6 (201-250 Sq. Ft. Shelter)
7 (251-300 Sq. Ft. Shelter)
8 (301-400 Sq. Ft. Shelter)
9 (>400 Sq. Ft. Shelter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 9- A MOTORIST AID TECHNICAL SUPPORT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 9- A** **MOTORIST AID TECHNICAL SUPPORT** **EA**

A =
1 (Training Session Number 1)
2 (Training Session Number 2)
3 (Training Session Number 3)
4 (Testing Callboxes)
5 (Control Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 73- RELAY STATION COMMUNICATION ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 73-** **RELAY STATION COMMUNICATION ASSEMBLY** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 74- CONTROL STATION COMMUNICATION ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 74-** **CONTROL STATION COMMUNICATION ASSEMBLY** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 75-ABB MOTORIST AID MICROWAVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to PPM for recommended pay item plan note.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 75-ABB** **MOTORIST AID MICROWAVE** **EA**

A =
1 (Spares)
2 (Test Equipment)

BB =
01 (Transmitter Baseband Combiner Card)
02 (Transmitter Baseband Amplifier Card)
03 (Transmitter Logic Card)
04 (Receiver Splitter Card)
05 (Receiver Baseband Amplifier Card)
06 (Receiver Logic Card)
07 (4w/4w Baseband Bridge)
08 (Alarm Card)
09 (Ringing Generator 5w)
10 (Hybrid Term Set
11 (FXO Signaling Adaptor)
12 (FXS Signaling Adaptor)
13 (Bypass Card W/Attenuators)
14 (Line Pilot Sync Unit)
15 (Two-Step Group Translator)
16 (Dual Hybrid Card Kit)
17 (Equalizer / Timer For Battery Charger)
18 (RF Power Meter)
19 (RF Power Sensor)
20 (Tracking Generator)
21 (Selective Level Meter)
22 (Frequency Counter)
23 (RF Attenuator 20w, 30 Db)
24 (Variable Attenuator, 6-66 Db)
25 (Trans, Imparrment Measurement Set -TIMS)
26 (Digital Multimeter)
27 (4w/4w DTMF Bridge)
28 (Test Fixtures)
29 (Transmitter Power Amplifier)
30 (Receiver RF Amplifier)
31 (Transmitter Oscillator)
32 (Transmitter Modulator)
33 (Receiver Local Oscillator)
34 (Receiver If Amplifier)
35 (Remote Alarm Terminal)
36 (Selective Call Unit)
37 (Channel Modem)
38 (HF Combiner) S)
39 (DTMF Orderwire Unit)
40 (72 MHz Base Transmitter Unit)
41 (72 MHz Base Receiver Unit)
42 (72 MHz Base Bridge)
43 (Phone Ringing Generator)
44 (Digital Channel/Codec)
45 (Spectrum Analyzer)
46 (Signal Generator)
47 (Bit Error Rate Test Set)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

715- 1- AB LIGHTING- CONDUCTORS

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Includes conductors as per the plans and standard indexes. Design quantity shall be based on the length of single conductor in horizontal measurement.

REMOVE & DISPOSE: Contractor takes ownership of the removed material. Any salvage value may be incorporated into the contractor's bid price.

REMOVE & STOCKPILE: FDOT or maintaining agency retains ownership. Do not use this item, unless specifically requested by District Maintenance or the maintaining agency.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17500, 17501, 17502

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 1- AB** **LIGHTING- CONDUCTORS** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify)B=0
6 (Remove & Dispose) B=0, Note: Contractor takes ownership.
7 (Remove & Stockpile)B=0, Note: ONLY when requested by maintaining agency
8 (Place out of Service) B=0

B= Size
1 (No. 10 or smaller)
2 (No 8 to No. 6)
3 (No. 4 to No. 2)
4 (No. 1 to No. 0)
5 (No. 1/0 to No. 3/0)
6 (No. 4/0 or larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF		1/1/2010	
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF		1/1/2010	
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF		1/1/2010	
0715 1 14	LIGHTING CONDUCTORS, F&I, INSULATED, NO 1 TO NO 0	LF		1/1/2010	
0715 1 15	LIGHTING CONDUCTORS, F&I, NO.1/0 - 3/0 (0 to 000)	LF		1/1/2010	
0715 1 16	LIGHTING CONDUCTORS, F&I, NO.4/0 (0000) OR LARGER	LF		1/1/2010	
0715 1 19	LIGHTING CONDUCTORS, F&I, SPECIAL	LF		1/1/2010	
0715 1 50	LIGHTING CONDUCTORS, ADJUST/MODIFY	LF	T	1/1/2010	
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF		1/1/2010	
0715 1 70	LIGHTING CONDUCTORS, REMOVE & STOCKPILE, FDOT OR MAINT AGENCY OWNS	LF	T	1/1/2010	
0715 1 80	LIGHTING CONDUCTORS, PLACE OUT OF SERVICE	LF	T	1/1/2010	

715- 2- AB LIGHTING CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

For highway lighting applications only. Includes conduit, elbows, sweeps, connecting hardware, trenching and backfill as per the plans and standard indexes. Also includes the cost of restoring cut pavement, sidewalks, sod, etc. to its original condition.

Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as Underground.

Underpavement should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. under EXISTING PAVEMENT.

Additional conduit placed for future use should be detailed in the plans; tabulate quantity as furnished & installed conduit.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17721

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 2- AB** **LIGHTING CONDUIT** **LF**

A= Operation
1 (Furnish & Install)

B = Location
1 (Underground)
2 (Underpavement Sawcut) Note: Only when sawcutting is necessary for locations under EXISTING PAVEMENT
3 (Surface Mount)

Notes See details above for furnish item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 2 11	LIGHTING - CONDUIT, F&I, UNDERGROUND	LF		1/1/2010	
0715 2 12	LIGHTING - CONDUIT, F&I, UNDER EXISTING PAVEMENT SAWCUT	LF		1/1/2010	
0715 2 13	LIGHTING CONDUIT, F&I, SURFACE MOUNT	LF		1/1/2010	

715- 4-ABC LIGHT POLE COMPLETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 715-4A-BCC**

Details For standard light pole designs; poles listed on Qualified Products List (QPL). If a special foundation is needed, select the pay item based on the pole type; detail the special foundation in the plans.

INSTALL: Plans or specs should identify agency furnishing pole, as well as pick-up or delivery instructions. Payment includes foundation and all incidentals for installation/operation.

REMOVE: Plans or specs should identify if contractor is to take ownership of the poles, stockpile, or deliver to a FDOT maintenance yard. Plans/specs to indicate if foundation is to be removed.

RELOCATE: Plans or specs should identify location(s) of poles, as well as compensation: Payment includes new foundation and all incidentals for installation/operation.

Use C=Custom only when the pole height is non-standard. Plans should clearly identify height for pole(s) included under this item. Remaining design standards apply.
****
For Special Design (non-standard) light poles, refer to 715-5AB-CDD.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed

for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SBTBLT: Tabulation of Quantities- Lighting
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, 7.3
	Other	
	Standards	Index No. 17501, 17503, 17515 (Index No. 17503 valid through July 2009) Structures Manual, Vol 9
	Specifications	
		Selected Items may require Plan Details and/or Technical Specifications
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 4-ABC** **LIGHT POLE COMPLETE** **EA**

A= Operation
0 (Furnish & Install Standard Pole, Special Foundation) *foundations other than as shown on index 17515; details in plans
1 (Furnish & Install) Standard pole, standard foundation
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Wind Speed (mph)
1 (150)
2 (130)
3 (110)

C= Pole Height (feet)
1 (40)
2 (45)
3 (50)
9 (Custom height)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 4011	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 40'	EA		1/1/2010	
0715 4012	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 45'	EA		1/1/2010	

0715 4013	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 50'	EA		1/1/2010
0715 4021	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 130, POLE HEIGHT 40'	EA		1/1/2010
0715 4023	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION, WIND SPEED 130,POLE HEIGHT 50'	EA		1/1/2010
0715 4033	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 110, POLE HEIGHT 50'	EA		1/1/2010
0715 4111	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE - 40'	EA	T	1/1/2010
0715 4112	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE - 45'	EA	T	1/1/2010
0715 4113	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE HEIGHT- 50'	EA		1/1/2010
0715 4119	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, CUSTOM HEIGHT	EA	T	1/1/2010
0715 4121	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 40'	EA		1/1/2010
0715 4122	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 45'	EA		1/1/2010
0715 4123	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 50'	EA		1/1/2010
0715 4129	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, CUSTOM HEIGHT	EA	T	1/1/2010
0715 4131	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 40'	EA		1/1/2010
0715 4132	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 45'	EA		1/1/2010
0715 4133	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 50'	EA		1/1/2010
0715 4139	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, CUSTOM HEIGHT	EA		1/1/2010
0715 4300	LIGHT POLE COMPLETE, INSTALL	EA		1/1/2010
0715 4400	LIGHT POLE COMPLETE, RELOCATE	EA		1/1/2010
0715 4600	LIGHT POLE COMPLETE, REMOVE	EA		1/1/2010

715- 5- AB LUMINAIRE & BRACKET ARM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the bracket arm, luminaire with lamp and all necessary mounting hardware as per the plans and indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards Index No. 17500, 17501

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 5- AB** **LUMINAIRE & BRACKET ARM** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)

Code B = 0 If A = 3, 4, Or 5
B = Material Type
1 (Aluminum)
2 (Galvanized Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 5 11	LUMINAIRE & BRACKET ARM, F&I, ALUMINUM	EA		1/1/2010	
0715 5 12	LUMINAIRE & BRACKET ARM, F&I, GALVANIZED STEEL	EA		1/1/2010	
0715 5 30	LUMINAIRE & BRACKET ARM, INSTALL	EA		1/1/2010	
0715 5 50	LUMINAIRE & BRACKET ARM, REMOVE	EA		1/1/2010	

715- 7- AB LOAD CENTER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes all components listed in the Standards and all external and internal conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards Index No. 17504

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 7- AB** **LOAD CENTER** **EA**

A = Operation
1 (Furnish & Install)
2 (Rework)
3 (Relocate)
4 (Remove)

B =Service
1 (Secondary Voltage)
2 (Primary Voltage)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA		1/1/2010	
0715 7 12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA		1/1/2010	
0715 7 21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA		1/1/2010	
0715 7 31	LOAD CENTER, RELOCATE, SECONDARY VOLTAGE	EA		1/1/2010	
0715 7 41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA		1/1/2010	

715- 10- A LIGHT POLE FOUNDATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details DO NOT USE WITH LIGHT POLE COMPLETE. Foundation is included in cost of complete pole installation or removal.

This item is normally used for maintenance type functions. Includes the foundation and anchor bolts with lock nuts and washers as per the plans and standard indexes. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS for Furnish & Install Items

Standards Index No. 17501, 17503, 17504
(Index No. 17503 valid through July 2009)

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 10- A** **LIGHT POLE FOUNDATION** **EA**

A = Operation
2 (Furnish & Install) Do not use with F&I light poles.
3 (Repair)
4 (Straighten Existing Foundation)
5 (Remove) Do not use with light pole removal.
6 (Relocate)
7 (Furnish)
8 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 10 2	LIGHT POLE FOUNDATION, F&I	EA		1/1/2010	
0715 10 3	LIGHT POLE FOUNDATION, REPAIR	EA		1/1/2010	
0715 10 4	LIGHT POLE FOUNDATION, STRAIGHTEN EXISTING FOUNDATION	EA		1/1/2010	
0715 10 5	LIGHT POLE FOUNDATION, REMOVE	EA		1/1/2010	

715- 11-ABC LUMINAIRE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the luminaire with lamp and necessary mounting hardware as per the plans and standard indexes.

DO NOT USE WITH items 715-4-ABC Light Pole Complete or 715-5AB-CDD Light Pole Complete, Special Design; the luminaire is included with the complete pole.

DO NOT USE WITH NEW SIGN INSTALLATIONS; lighting for new signs is included in the cost of the sign. Refer to Section 700 of the specifications.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS for Furnish & Install Items

Standards Index No. 17500, 17501, 17502, 17505

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 11-ABC** **LUMINAIRE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Remove) BC=00
6 (Repair & Reinstall) BC=00

B = Classification
1 (Roadway) Do not use with "Light Pole, Complete" or "Light Pole, Special Design"
2 (Underdeck)
3 (Sign) for Retrofits only; no separate payment for lighting on new signs

C = Type
1 (Cobra Head)
2 (High Mast)
3 (Pole Top)
4 (Shoe Box)
5 (Wall Mount)
6 (Pendant Hung)
7 (Sign Mount)
8 (Flood)
9 (Special)*

Notes *Selected Items require Tech Spec and/or Plan Details.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 11111	LUMINAIRE, F&I, ROADWAY, COBRA HEAD	EA		1/1/2010	
0715 11112	LUMINAIRE, F&I, ROADWAY, HIGH MAST	EA		1/1/2010	
0715 11113	LUMINAIRE, F&I, ROADWAY, POLE TOP	EA		1/1/2010	
0715 11114	LUMINAIRE, F&I, ROADWAY, SHOE BOX	EA		1/1/2010	
0715 11115	LUMINAIRE, F&I, ROADWAY, WALL MOUNT	EA		1/1/2010	
0715 11116	LUMINAIRE, F&I, ROADWAY, PENDANT HUNG	EA		1/1/2010	
0715 11118	LUMINAIRE, F&I, ROADWAY, FLOOD	EA		1/1/2010	
0715 11119	LUMINAIRE, F&I, ROADWAY SPECIAL	EA		1/1/2010	
0715 11125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA		1/1/2010	
0715 11126	LUMINAIRE, F&I, UNDER DECK, PENDANT HUNG	EA		1/1/2010	
0715 11127	LUMINAIRE, F&I, SIGN, SIGN MOUNT	EA		1/1/2010	
0715 11128	LUMINAIRE, F&I, UNDER DECK, FLO0D	EA		1/1/2010	

0715 11129	LUMINAIRE, F&I, UNDER DECK, SPECIAL	EA	1/1/2010
0715 11136	LUMINAIRE, F&I, SIGN, PENDANT HUNG	EA	1/1/2010
0715 11137	LUMINAIRE, F&I, SIGN, SIGN MOUNT	EA	1/1/2010
0715 11138	LUMINAIRE, F&I, SIGN, FLOOD	EA	1/1/2010
0715 11139	LUMINAIRE, F&I, SIGN, SPECIAL	EA	1/1/2010
0715 11500	LUMINAIRE, REMOVE	EA	1/1/2010
0715 11600	LUMINAIRE, REPAIR & REINSTALL	EA	1/1/2010
0715 11612	LUMINAIRE, REPAIR &REINSTALL, ROADWAY, HIGH MAST	EA	1/1/2010

715- 14- AB LIGHTING- PULL BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the pull box and cover as per plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS for Furnish & Install Items

Standards Index No. 17500, 17503
(Index No. 17503 valid through July 2009)

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 14- AB** **LIGHTING- PULL BOX** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)
6 (Furnish & Install Cover Only)
7 (Repair)

B = Placement
1 (Roadside) - Moulded
2 (Sidewalk)
3 (Embedded) - Bridge
4 (Surface Mount)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 14 11	LIGHTING - PULL BOX, F&I, ROADSIDE-MOULDED	EA		1/1/2010	
0715 14 12	LIGHTING - PULL BOX, F&I, SIDEWALK	EA		1/1/2010	
0715 14 13	LIGHTING - PULL BOX, F&I, EMBEDDED BRIDGE	EA		1/1/2010	
0715 14 14	LIGHTING - PULL BOX, F&I, SURFACE MOUNT	EA		1/1/2010	
0715 14 32	LIGHTING - PULL BOX, INSTALL, SIDEWALK	EA		1/1/2010	
0715 14 41	LIGHTING - PULL BOX, RELOCATE, ROADSIDE - MOULDED	EA		1/1/2010	
0715 14 42	LIGHTING - PULL BOX, RELOCATE, SIDEWALK	EA		1/1/2010	
0715 14 51	LIGHTING - PULL BOX, REMOVE, ROADSIDE, MOULDED	EA		1/1/2010	
0715 14 52	LIGHTING - PULL BOX, REMOVE, SIDEWALK	EA		1/1/2010	
0715 14 54	LIGHTING - PULL BOX, REMOVE, SURFACE MOUNT	EA		1/1/2010	
0715 14 61	LIGHTING - PULL BOX, F&I COVER ONLY, ROADSIDE-MOULDED	EA		1/1/2010	
0715 14 62	LIGHTING - PULL BOX, F&I COVER ONLY, SIDEWALK	EA		1/1/2010	
0715 14 64	LIGHTING - PULL BOX, F&I COVER ONLY, SURFACE MOUNT	EA		1/1/2010	
0715 14 71	LIGHTING - PULL BOX, REPAIR, ROADSIDE-MOULDED	EA		1/1/2010	

715- 19- A LIGHTING- SURGE PROTECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 19- A** **LIGHTING- SURGE PROTECTOR** **EA**

A =
1 (Pole Base)
2 (Install Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 19 1	LIGHTING - SURGE PROTECTOR, POLE BASE	EA	T	1/1/2010	

715- 19-ABC HIGH MAST LIGHT POLE, COMPLETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the pole, luminaires with lamps, lowering system, breakers and anchor bolts with lock nuts and
washers as indicated in the plans and the Design Standards.

NO SEPARATE PAYMENT for the foundation, drilled shaft excavation, CSL tubes, or concrete pad around pole or pull box; all foundation work is included in the payment for a complete light pole.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 19-ABC** **HIGH MAST LIGHT POLE, COMPLETE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
6 (Remove) BC=00

B= Wind Speed (mph)
1 (150)
2 (130)

3 (110)

C = Pole Height (feet)
1 (80)
2 (100)
3 (120)
9 (Custom

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 19111	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 80'	EA		1/1/2010	
0715 19112	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 100'	EA		1/1/2010	
0715 19113	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 120'	EA		1/1/2010	
0715 19119	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, CUSTOM HEIGHT	EA		1/1/2010	
0715 19121	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 80'	EA		1/1/2010	
0715 19122	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 100'	EA		1/1/2010	
0715 19123	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 120'	EA		1/1/2010	
0715 19129	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, CUSTOM HEIGHT	EA		1/1/2010	
0715 19132	HIGH MAST LIGHT POLE, F&I, WIND SPEED-110 MPH, POLE 100'	EA		1/1/2010	
0715 19133	HIGH MAST LIGHT POLE COMPLETE, F&I, WIND SPEED-110 MPH, POLE HEIGHT 120'	EA		1/1/2010	
0715 19300	HIGH MAST LIGHT POLE, INSTALL	EA		1/1/2010	
0715 19600	HIGH MAST LIGHT POLE, REMOVE	EA		1/1/2010	

715- 20- A LIGHTING- SCHEDULED CLEANING

Unit LU **Accuracy** Luminaire **PlanQuantity?** no

Notes

Details This is a maintenance operation. Coordinate the use of this item with the District Maintenance Office. Verify correct funding for this pay item.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 20- A** **LIGHTING- SCHEDULED CLEANING** **LU**

A =
1 (Pole Mounted <50')
2 (Underdeck)
3 (Sign Luminaire)
4 (High Mast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 20 4	LIGHTING - SCHEDULED CLEANING, HIGH MAST	LU		1/1/2010	

715- 26- A QUICK DISCONNECT PLUG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 26- A** **QUICK DISCONNECT PLUG** **EA**

A =
1 (Switch Boxing - For Sign Structure)
2 (Plug Pole Base - High Mast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 26 1	QUICK DISCONNECT PLUG, SWITCH BOXING FOR SIGN	EA		1/1/2010	
0715 26 2	QUICK DISCONNECT PLUG,PLUG POLE BASE, HIGH MAST	EA		1/1/2010	

715- 30- AA GROUP RELAMPING (LIGHTING)

Unit LU **Accuracy** Luminaire **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 30- AA** **GROUP RELAMPING (LIGHTING)** **LU**

AA =
1 (Mercury Vapor)
2 (High Pressure Sodium)
3 (Metal Halide)
4 (Bridge Mounted HPS)
5 (High Mast/HPS)
6
7
8 (Low Pressure Sodium)
9 (Fluorescent)
10 (Incandescent)
11 (State Furnished Lamps)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 30 2	LIGHTING- GROUP RELAMPING, HIGH PRESSURE SODIUM	LU		1/1/2010	
0715 30 5	GROUP RELAMPING, LIGHTING, HIGH MAST/HPS	LU		1/1/2010	

715- 31- AA LIGHTING - ROUTINE MAINTENANCE

Unit LU **Accuracy** Luminaire **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 31- AA** **LIGHTING - ROUTINE MAINTENANCE** **LU**

AA =
1 (Shoulder, Single Arm)
2 (Shoulder, Double Arm)
3 (Median, Single Arm, Wall Mounted.)
4 (Median, Double Arm, Wall Mounted.)
5 (Bridge Mounted)
6 (Underdeck)
7 (Load Center)
8 (High Mast Pole)
9 (Overhead Sign Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 31 6	ROUTINE LIGHTING MAINTAINANCE, UNDERDECK	LU	T	1/1/2010	

715- 34- A LIGHT POLE (MAINTENANCE USE ONLY)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This is a Maintenance item. Coordinate with District Maintenance Office.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 34- A** **LIGHT POLE (MAINTENANCE USE ONLY)** **EA**

A =
1 (Furnish New Pole)
2 (Repair A Pole And Furnish For Reuse)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

715- 36- AB LIGHT POLE FRANGIBLE BASE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the frangible base, attachments, bolts and washers as per the plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 17501
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 36- AB** **LIGHT POLE FRANGIBLE BASE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)

3 (Install)
4 (Remove)
5 (Leveling In-Place Pole)

B = Type
1 (Shoe Base)
2 (Transformer Base)
3 (Frangible Insert)
4 (Door Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 36 12	LIGHT POLE, FRANGIBLE BASE, F&I, TRANSFORMER BASE	EA		1/1/2010	
0715 36 14	LIGHT POLE, FRANGIBLE BASE, F&I, DOOR ASSEMBLY	EA		1/1/2010	
0715 36 42	LIGHT POLE, FRANGIBLE BASE, REMOVE, TRANSFORMER BASE	EA		1/1/2010	
0715 36 62	LIGHT POLE, FRANGIBLE BASE, REPLACE, TRANSFORMER BASE	EA		1/1/2010	

715- 37- A LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the photo electric control, transformer, conduit and conductors as per the plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS for Item 715- 37- 1

Standards Index No. 17504

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status **Inactive Structure**

Struct. **715- 37- A** **LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

5 (Relocate)

Notes Inactive

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 37 1	PHOTO ELECTRIC CONTROL ASSEMBLY, F&I	EA		1/1/2010	

715- 50- LIGHTING- INSIDE BOX GIRDER

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?**

Notes

Details Intended for lighting system within box girder structures. Coordinate the use of this item with the Mechanical/Electrical Section of the State Structures Office. All work must be detailed in the plans/specifications, including a tabulation of materials.

LS System: Includes all work & materails tabulated in the plans, including conduit and wiring (within the box girder), power distribution, switches, light fixtures, etc.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status

Struct. **715- 50-** **LIGHTING- INSIDE BOX GIRDER** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715 50	LIGHTING, INSIDE BOX GIRDER	LS	T	1/1/2010	

715-500- A LIGHT POLE CABLE DISTRIBUTION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the surge protector, fuse holders with fuses, waterproof connectors and waterproof wiring connection to the luminaire. Refer to Section 992 of the Specifications for details.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT: Tabulation of Quantities- Lighting

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715-500- A** **LIGHT POLE CABLE DISTRIBUTION SYSTEM** **EA**

A = Type
1 = (Conventional)
2 = (High Mast)
3 = (Wall Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA		1/1/2010	
0715500 2	POLE CABLE DISTRIBUTION SYSTEM, HIGH MAST	EA		1/1/2010	
0715500 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA		1/1/2010	

715-5AB-CDD LIGHT POLE COMPLETE, SPECIAL DESIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective 7/2010 letting, Median Barrier Mounted Aluminum Poles (single and double arm) are included on design standard.**
Effective 7/2010 letting, Internal Vibration Damper required for light poles. Refer to 715-1 of specifications.

Details Used for Specially Designed Poles, including decorative or non-standard aluminum . Requires shop drawings.
Includes the pole, internal vibration damping device, bracket arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.

For special foundations, select pay item based on pole type; detail foundation in the plans.

For standard aluminum poles, use item 715-4-ABC.

FURNISH (A=2): Do not furnish additional light fixtures to DOT maintenance yards using construction funds. When requested, and funded by the maintaining agency, the furnish only item may be used. Plans or specifications must detail instructions for delivery of item(s) to the maintaining agency.

Effective 7/2010 letting:
For Median Barrier Mounted Aluminum, refer to Index 17515. Do not use "Special Design" pay item for standard poles included on design standard; use pay item 715-4- for Light Pole Complete, for all standard poles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SBTBLT: Tabulation of Quantities- Lighting
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS
	Standards	Index No. 17500, 17501, 17503 (Index No. 17503 valid through July 2009)
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715-5AB-CDD** **LIGHT POLE COMPLETE, SPECIAL DESIGN** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish) approvals needed; see details above
3 (Install)
4 (Relocate) B-CDD = 0-000
5 (Remove) B-CDD = 0-000
6 (Repair & Reinstall) B-CDD = 0-000
7 (Furnish & Install With Internal Vibration Damper) *valid through 6-30-10

B = No. Arms & Location
1 (Single Arm Shoulder Mount)
2 (Double Arm Shoulder Mount)
3 (Single Arm Wall Mount) Do not used for designs shown on Index 17515.
4 (Double Arm Wall Mount) Effective 7/2010, do NOT use for poles covered by Index 17515, Median Barrier Wall Mount.
5 (Single Arm Bridge Mount)
6 (Pole Top Mount)
7 (Double Arm Bridge Mount)

8 (Double Arm, Pole Top Mount)

C = Material Type
1 (Aluminum) non-standard designs
2 (Galvanized Steel)
3 (Concrete)
4 (Fiberglass)
5 (Wood)
6 (Cast Iron)

DD = Mounting Height (Open In Five Foot Increments

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0715511115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 15'	EA	T	1/1/2010	
0715511120	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 20'	EA	T	1/1/2010	
0715511125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 25'	EA	T	1/1/2010	
0715511130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 30'	EA	T	1/1/2010	
0715511135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	
0715511140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	
0715511145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	
0715511150	LIGHT POLE COMPLETE SPECIAL DESIGN , F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	
0715511230	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, GALVANIZED STEEL, 30'	EA	T	1/1/2010	
0715511240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, GALVANIZED STEEL, 40'	EA	T	1/1/2010	
0715511245	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, GALVANIZED STEEL, 45'	EA	T	1/1/2010	
0715511250	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, GALVANIZED STEEL, 50'	EA	T	1/1/2010	
0715511315	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 15'	EA	T	1/1/2010	

0715511330	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 30'	EA	T	1/1/2010	
0715511335	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 35'	EA	T	1/1/2010	
0715511340	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 40'	EA	T	1/1/2010	
0715511350	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 50'	EA	T	1/1/2010	
0715511540	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, WOOD, 40'	EA	T	1/1/2010	
0715511550	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, WOOD, 50'	EA	T	1/1/2010	
0715512115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 15'	EA	T	1/1/2010	
0715512140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	12/31/2013
0715512145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	
0715512150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	
0715512320	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, CONCRETE, 20'	EA	T	1/1/2010	
0715512340	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, CONCRETE, 40'	EA	T	1/1/2010	
0715512940	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, CONCRETE, 40'	EA	T	1/1/2010	
0715513115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 15'	EA	T	1/1/2010	
0715513125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 25'	EA	T	1/1/2010	
0715513130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 30'	EA	T	1/1/2010	
0715513135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	

0715513140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 40'	EA	T	1/1/2010
0715513145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 45'	EA	T	1/1/2010
0715513150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 50'	EA	T	1/1/2010
0715513215	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 15'	EA	T	1/1/2010
0715513240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 40'	EA	T	1/1/2010
0715513245	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 45'	EA	T	1/1/2010
0715513250	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 50'	EA	T	1/1/2010
0715514115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM WALL MOUNT, ALUMINUM, 15'	EA	T	1/1/2010
0715514135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM WALL MOUNT, ALUMINUM, 35'	EA	T	1/1/2010
0715514145	LIGHT POLE COMP- SPECIAL DESIGN, F&I, DOUBLE ARM WALL MOUNT, ALUMINUM, 45'	EA	T	1/1/2010
0715514150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM WALL MOUNT, ALUMINUM, 50'	EA	T	1/1/2010
0715515125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-ALUMINUM, 25'	EA	T	1/1/2010
0715515130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SIGLE ARM BRIDGE MOUNT-ALUMINUM, 30'	EA	T	1/1/2010
0715515135	LIGHT POLE COMPLETE- SEPCIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-ALUMINUM, 35'	EA	T	1/1/2010
0715515145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-ALUMINUM, 45'	EA	T	1/1/2010
0715515150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-ALUMINUM, 50'	EA	T	1/1/2010
0715516115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 15'	EA	T	1/1/2010
0715516120	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 20'	EA	T	1/1/2010

0715516125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT-ALUMINUM, 25'	EA	T	1/1/2010	
0715516130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT-ALUMINUM, 30'	EA	T	1/1/2010	
0715516135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT-ALUMINUM, 35'	EA	T	1/1/2010	
0715516140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MNT-ALUMINUM, 40'	EA	T	1/1/2010	
0715516145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	
0715516150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	
0715516210	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, POLE TOP MNT-GALVANIZED STEEL, 10'	EA	T	1/1/2010	
0715516320	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I ,POLE TOP MOUNT, CONCRETE, 20'	EA	T	1/1/2010	
0715517110	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 10'	EA	T	1/1/2010	
0715517140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	
0715517145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	
0715518140	LIGHT POLE COMP- SPECIAL DESIGN, F&I, DOUBLE ARM, POLE TOP MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	
0715518145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM, POLE TOP MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	
0715521135	LIGHT POLE COMPLETE- SPECIAL DESIGN, FURNISH, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	
0715521140	LIGHT POLE COMPLETE- SPECIAL DESIGN, FURNISH, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	12/31/2014
0715526120	LIGHT POLE COMPLETE-SPECIAL DESIGN, FURNISH, POLE TOP MOUNT, ALUMINUM, 20'	EA	T	1/1/2010	
0715540000	LIGHT POLE COMPLETE- SPECIAL DESIGN, RELOCATE	EA	T	1/1/2010	
0715550000	LIGHT POLE COMPLETE- SPECIAL DESIGN, REMOVE	EA	T	1/1/2010	
0715560000	LIGHT POLE COMPLETE- SPECIAL DESIGN, REPAIR & REINSTALL	EA	T	1/1/2010	
0715571135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	6/30/2010

0715571140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010
0715571145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010
0715571150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715572150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715573135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	6/30/2010
0715573140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010
0715573145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010
0715573150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715573230	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 30'	EA	T	1/1/2010	6/30/2010
0715573240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 40'	EA	T	1/1/2010	6/30/2010
0715573250	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM WALL MOUNT, GALVANIZED STEEL, 50'	EA	T	1/1/2010	6/30/2010
0715574140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010
0715574145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010

0715574150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715574240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, DOUBLE ARM WALL MOUNT, STEEL, 40'	EA	T	1/1/2010	6/30/2010
0715575130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 30'	EA	T	1/1/2010	6/30/2010
0715575135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	6/30/2010
0715575140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010
0715575145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010
0715575150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715575230	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, STEEL, 30'	EA	T	1/1/2010	6/30/2010
0715575240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT, STEEL, 40'	EA	T	1/1/2010	6/30/2010
0715575250	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, SINGLE ARM BRIDGE MOUNT,GALVANIZED STEEL, 50'	EA	T	1/1/2010	6/30/2010
0715576115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 15'	EA	T	1/1/2010	6/30/2010
0715576120	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 20'	EA	T	1/1/2010	6/30/2010
0715576130	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 30'	EA	T	1/1/2010	6/30/2010
0715576135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	6/30/2010
0715576140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010

0715576150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010
0715577135	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I INTERNAL VIBRATION DAMPER, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 35'	EA	T	1/1/2010	6/30/2010
0715577145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010
0715577240	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, DOUBLE ARM ,BRIDGE MOUNT, ALUMINUM, 40'	EA	T	1/1/2010	6/30/2010
0715578145	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER, POLE TOP MOUNT, ALUMINUM, 45'	EA	T	1/1/2010	6/30/2010
0715578150	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, INTERNAL VIBRATION DAMPER,DOUBLE ARM POLE TOP MOUNT, ALUMINUM, 50'	EA	T	1/1/2010	6/30/2010

721- 70- AB PASSENGER SHELTER- ALUMINUM, PREFABRICATED

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 70- AB** **PASSENGER SHELTER- ALUMINUM, PREFABRICATED EA**

A =

1 (Aluminum)

B =
1 (Pre-Fabricated)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

721- 74- A TRASH RECEPTACLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 74- A** **TRASH RECEPTACLE** **EA**

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0721 74 1	TRASH RECEPTACLE, PRE-FABRICATED	EA	T	1/1/2010	

721- 75- A BENCHES

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed

for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 75- A** **BENCHES** **EA**

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0721 75 1	BENCHES, PRE-FABRICATED	EA	T	1/1/2010	

721- 77- BICYCLE PARKING RACK

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 77-** **BICYCLE PARKING RACK** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0721 77	BICYCLE PARKING RACK	EA	T	1/1/2010	

721- 80- PEDESTRIAN PLAZA

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

May include pedestrian banners, drinking fountains, kiosk, and other items, as detailed in the plans. Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 80-** **PEDESTRIAN PLAZA** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

730- 76-ABB **STEEL CASING, OPEN TRENCH**

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

a=1, 4, 5 valid for open cut trench applications only. For Jack & Bore, Directional Bore, and/or vibratory plowing, refer to Items 555, 556, and/or 557.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 76-ABB** **STEEL CASING, OPEN TRENCH** **LF**

A = Operation
1 (Furnish & Install)
4 (Remove)
5 (Install)

BB = Size
01 (2")
02 (3")
03 (4")
04 (6")
05 (8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")

18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29 (84")
30 (72")
31 (90")
32 (108")
33 (")
34 (")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0730 76101	STEEL CASING, OPEN TRENCH, F&I, 2"	LF		1/1/2010	
0730 76103	STEEL CASING, OPEN TRENCH, F&I, 4"	LF		1/1/2010	
0730 76104	STEEL CASING, OPEN TRENCH, F&I, 6"	LF		1/1/2010	
0730 76105	STEEL CASING, OPEN TRENCH, F&I, 8"	LF		1/1/2010	
0730 76107	STEEL CASING, OPEN TRENCH, F&I, 12"	LF		1/1/2010	
0730 76108	STEEL CASING, OPEN TRENCH, F&I, 14"	LF		1/1/2010	
0730 76109	STEEL CASING, OPEN TRENCH, F&I, 16"	LF		1/1/2010	
0730 76110	STEEL CASING, OPEN TRENCH, F&I, 18"	LF		1/1/2010	
0730 76111	STEEL CASING, OPEN TRENCH, F&I, 20"	LF		1/1/2010	
0730 76113	STEEL CASING, OPEN TRENCH, F&I, 24"	LF		1/1/2010	
0730 76115	STEEL CASING, OPEN TRENCH, F&I, 28"	LF		1/1/2010	
0730 76116	STEEL CASING, OPEN TRENCH, F&I, 30"	LF		1/1/2010	
0730 76118	STEEL CASING, OPEN TRENCH, F&I, 34"	LF		1/1/2010	
0730 76119	STEEL CASING, OPEN TRENCH, F&I, 36"	LF		1/1/2010	
0730 76121	STEEL CASING, OPEN TRENCH, F&I, 40"	LF		1/1/2010	
0730 76122	STEEL CASING, OPEN TRENCH, F&I, 42"	LF		1/1/2010	
0730 76123	STEEL CASING, OPEN TRENCH, F&I, 48"	LF		1/1/2010	
0730 76124	STEEL CASING, OPEN TRENCH, F&I, 54"	LF		1/1/2010	
0730 76126	STEEL CASING, OPEN TRENCH, F&I, 66"	LF		1/1/2010	
0730 76130	STEEL CASING, OPEN TRENCH, F&I, 72"	LF		1/1/2010	

730- 77- AA CASING SPACERS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 77- AA** **CASING SPACERS** **EA**

AA = Carrier Size
01 (2")
02 (3")
03 (4")
04 (6")
05 (8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")
18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29(84")
30(72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0730 77 1	CASING SPACERS, 2" CARRIER SIZE	EA		1/1/2010	

730- 83- AB IRRIGATION WELL

Unit PW; EA; LF; M1 **Accuracy** Per Well; Each; Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Irrigation well for roadway, architectural, or landscaping applications. Designer should determine if permits are required by local and/or state agencies. For drainage deep wells, see 444- pay items and index 288.

When used for landscape applications, load pay item in landscape category. For Roadway applications, load item in roadway category.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Final Measure:
For Per Each/Well Items: Final tabulation of quantities must be recorded on proper form in computation book by location.
For Length Measurements: Record final measurements on proper form in computation book or field book. When measurements have been recorded in the field book, transfer final quantities to computation book.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 or oth Roadway or other- see details

Status

Struct. **730- 83- AB** **IRRIGATION WELL** **PW; EA; LF;**

A= Depth
blank (up to 250') per well
1 (250' and greater) per LF

A =
4 (4" Casing)

6 (6" Casing)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0730 83 4	WELL, TO 250' DEPTH, 4" CASING	PW	T	1/1/2010	
0730 83 6	WELL, TO 250' DEPTH, 6" CASING	PW	T	1/1/2010	

730- 88- PUMPING SYSTEM- IRRIGATION WELL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Irrigation well for roadway, architectural, or landscaping applications. Designer should determine if permits are required by local and/or state agencies. For drainage deep wells, see 444- pay items and index 288.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 or oth Roadway or other- see details

Status

Struct. **730- 88-** **PUMPING SYSTEM- IRRIGATION WELL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0730 88	PUMPING SYSTEM	EA	T	1/1/2010	

735- 74- AA TOLL PLAZA

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Tabulation summary required on all projects. See 735-88-AA for modifications to existing toll plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **735- 74- AA** **TOLL PLAZA** **LS/LS**

AA =
blank (single location)
1 (Location 1)
2 (Location 2)
3 (Location 3)
4 (Location 4)
5 (Location 5)
6 (Location 6)
7 (Location 7)
8 (Location 8)
9 (Location 9)
10 (Location 10)
11 (Location 11)
12 (Location 12)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0735 74	TOLL PLAZA, SINGLE LOCATION	LS	T	1/1/2010	
0735 74 1	TOLL PLAZA, LOCATION 1	LS	T	1/1/2010	
0735 74 2	TOLL PLAZA, LOCATION 2	LS	T	1/1/2010	

735- 79- SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 79-** **SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0735 79	SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS	LS	T	1/1/2010	

735- 80- SERVICE PLAZA RENOVATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 80-** **SERVICE PLAZA RENOVATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 81- SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Valid for Turnpike/Service Plaza use only.
Detail the size, depth, and any material requirements in the plans or specifications. If structure is to be similar to drainage structure, consider reference to Section 425 of the specifications.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **735- 81-** **SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 82- A TOLL PLAZA CANOPY

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 82- A** **TOLL PLAZA CANOPY** **SF**

A =
1 (Concrete)
2 (Aluminum)
3 (Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 84- A TOLL PLAZA ISLAND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 84- A** **TOLL PLAZA ISLAND** **EA**

A =
1 (New)
2 (Modify)
3 (Remove)
4 (New With Stairwell)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0735 84 3	TOLL PLAZA ISLAND, REMOVE	EA	T	1/1/2010	

735- 88- AA TOLL PLAZA MODIFY EXISTING

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For use on Turnpike and other toll roads. Tabulation summary required on all projects. For NEW plaza construction, see item 735-74-AA.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **735- 88- AA** **TOLL PLAZA MODIFY EXISTING** **LS/LS**

AA =
blank (single location)
1 (Location 1)
2 (Location 2)
3 (Location 3)
4 (Location 4)
5 (Location 5)
6 (Location 6)
7 (Location 7)
8 (Location 8)
9 (Location 9)
10 (Location 10)
11 (Location 11)
12 (Location 12)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0735 88	TOLL PLAZA MODIFY EXISTING	LS	T	1/1/2010	
0735 88 1	TOLL PLAZA MODIFY EXISTING, LOCATION 1	LS	T	1/1/2010	
0735 88 2	TOLL PLAZA MODIFY EXISTING, LOCATION 2	LS	T	1/1/2010	

735- 89- REST AREA/SERVICE PLAZA- AUTOMATIC WINDSHIELD WASHER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **735- 89-** **REST AREA/SERVICE PLAZA- AUTOMATIC WINDSHIELD WASHER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

737- 70- A UTILITY LOCATE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This item is intended to be used for verification of utility locations designated in the plans, when necessary to specifically identify a location. This item is not to be used for incidental work covered by 7-11 of the specifications.
Refer to the Utility Accommodation Manual and PPM for additional guidance.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 5
Other Normally requires SHOP DRAWINGS
Standards
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **737- 70- A** **UTILITY LOCATE** **EA**

A =

1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0737 70 1	UTILITY LOCATE, UNDERGROUND	EA	T	1/1/2010	
0737 70 2	UTILITY LOCATE, UNDER PAVEMENT	EA	T	1/1/2010	

737- 71- A ELECTRONIC UTILITY DESIGNATE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

This item is intended to be used for verification/designating/marking of utility locations designated in the plans. Marker requirements to be provided by designer for specifications. Pay item not intended for searching unknown conditions. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **737- 71- A** **ELECTRONIC UTILITY DESIGNATE** **LF**

A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

740- 71-ABC WALL

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status

Struct. **740- 71-ABC** **WALL** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Removal)
5 (Rehab) LS, BC=00

B = Material
1 (Drywall)
2 (Panel Wall)
3 (Block Wall)
4 (Other)

C = Height
1 (8')
2 (10')
3 (12')
4 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0740 71500	WALL, REHABILITATION	LS	T	1/1/2010	

741- 70-ABC TRAFFIC MONITORING SITE, VEHICLE SENSOR- CLASS II

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **741- 70-ABC** **TRAFFIC MONITORING SITE, VEHICLE SENSOR-CLASS II** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Vehicle Sensor Type
1 (Type I)
2 (Type II)

C = Sensor Length
1 (Half Lane Width)
2 (Full Lane Width)
3 (Non-Intrusive)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0741 70111	TMS VEHICLE SENSOR, CLASS II, F&I, TYP 1, 1/2 LN	EA		1/1/2010	
0741 70112	TMS VEHICLE SENSOR, CLASS II, F&I, TYP 1, FULL LANE WIDTH	EA		1/1/2010	
0741 70121	TMS VEHICLE SENSOR, CLASS 2, F&I, TYP II, HALF LANE WIDTH	EA		1/1/2010	
0741 70123	TMS VEHICLE SENSOR, CLASS 2, F&I, TYPE II, NON INTRUSIVE	EA		1/1/2010	

742- 1- A TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS UNIT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2010 letting; replaces 742-70 item.**

Details Valid for use with Traffic Monitorig Systems only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **742- 1- A** **TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS UNIT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0742 1 1	TMS WEIGH- IN- MOTION, ELECTRONICS UNIT,F&I	EA	T	1/1/2010	

742- 2- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS SENSORS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2010 letting; replaces 742-70 item.**

Details Valid for use with Traffic Monitorig Systems only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Documentation **Construction**
Design
Construction

References **PPM Chapter**
Other
Standards
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 or oth Roadway or other- see details

Status

Struct. **742- 2- AB** **TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS SENSORS** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

B = Weight Sensor Type
1 (Bending Plate)
2 (Piezoelectric/ Quartz Piezoelectric)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0742 2 11	TMS WEIGH- IN- MOTION, ELECTRONICS SENSORS,F&I BENDING PLATE	EA	T	1/1/2010	
0742 2 12	TMS WEIGH- IN- MOTION, ELECTRONICS SENSORS,F&I PIZOELECTRIC/QUARTZ PEIZOELECTRIC	EA	T	1/1/2010	
0742 2 22	TMS WEIGH- IN- MOTION, ELECTRONICS SENSORS, FURNISH PIZOELECTRIC/QUARTZ PEIZOELECTRIC	EA	T	1/1/2010	

742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Valid through December 31, 2009. Replaced by 742-1 Unit and 742-2 Sensors.**

Details Valid for use with Traffic Monitorig Systems only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **742- 70- AB** **TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

B = Weight Sensor Type
1 (Bending Plate)
2 (Piezoelectric)
3 (Capacitance)
4 (Combined Types)
5 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

743- 70- AB TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes		
Details	Refer to Specifications for use and application.	
Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **743- 70- AB** **TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Assembly Component
1 (Electronics Unit With Equipment Cable)
2 (Electronics Unit Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0743 70 11	TMS VEHICLE SPEED/CLASS. UNIT, F&I, ELECTRONICS UNIT WITH EQUIPMENT CABLE	AS		1/1/2010	

744- 70- AB TRAFFIC MONITORING SITE, SOLAR POWER UNIT

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **744- 70- AB** **TRAFFIC MONITORING SITE, SOLAR POWER UNIT** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Mounting
1 (New Pole)
2 (Existing Pole)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0744 70 11	TMS SOLAR POWER UNIT, F&I, NEW POLE	EA		1/1/2010	
0744 70 12	TMS SOLAR POWER UNIT, F&I, EXISTING POLE	EA		1/1/2010	

745- 70- AB TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **745- 70- AB** **TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Number Of Loops Per Lane
1 (One)
2 (Two)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0745 70 11	TMS INDUCTIVE LOOP ASSEMBLY, F&I, 1 LOOP / LANE	AS		1/1/2010	
0745 70 12	TMS INDUCTIVE LOOP ASSEM, F&I, 2 LOOPS / LANE	AS		1/1/2010	

746- 7A-BCD TRAFFIC MONITORING SITE, CABINET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **746- 7A-BCD** **TRAFFIC MONITORING SITE, CABINET** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Modify) BCD=blank
5 (Relocate) BCD=blank

B = Size
1 (Type III)
2 (Type IV)
3 (Type V)

C = Mounting
1 (Base)
2 (Pole)
3 (Pedestal)

D = Backplane
1 (One)

2 (Two)
3 (None)

Notes Existing Specs apply for A=1-3; Plan Detail and/or Tech Spec Required for A=4 or 5

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0746 71111	TMS CABINET, F&I, TYPE III, BASE MOUNT, 1 BACKPLANE	EA		1/1/2010	
0746 71112	TMS CABINET, F&I, TYPE III, BASE MOUNT, 2 BACKPLANE	EA		1/1/2010	
0746 71122	TRAFFIC MONITORING SYSTEM CABINET, F&I, TYPE III, POLE MOUNT, 2 BACKPLANE	EA		1/1/2010	
0746 71131	TMS CABINET,F&I, TYPE III, PEDESTAL MNT, 1 BACKPLANE	EA		1/1/2010	
0746 71132	TMS CABINET,F&I, TYPE III, PEDESTAL MNT, 2 BACKPLANE	EA		1/1/2010	
0746 71133	TMS CABINET,F&I, TYPE V, PEDESTAL MOUNT, NONE	EA		1/1/2010	
0746 71211	TMS CABINET, F&I, TYPE IV, BASE MOUNT, 1 BACKPLANE	EA		1/1/2010	
0746 71212	TMS CABINET,F&I, TYPE IV, BASE MNT, 2 BACKPLANE	EA		1/1/2010	
0746 71221	TRAFFIC MONITORING SYSTEM CABINET, F&I, TYPE IV, POLE MOUNT, 1 BACKPLANE	EA		1/1/2010	
0746 71222	TMS CABINET,F&I, TYPE IV, POLE MOUNT, 2 BACKPLANE	EA		1/1/2010	
0746 71311	TMS CABINET, F&I, TYPE V, BASE MOUNT, 1 BACKPLANE	EA		1/1/2010	
0746 71312	TMS CABINET, F&I, TYPE V, BASE MOUNT, 2 BACKPLANE	EA		1/1/2010	
0746 74	TMS CABINET, MODIFY	EA		1/1/2010	
0746 75	TMS CABINET, RELOCATE	EA		1/1/2010	

747- 70- AB TRAFFIC MONITORING SITE, MODEM

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **747- 70- AB** **TRAFFIC MONITORING SITE, MODEM** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Item
1 (Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0747 70 11	TMS MODEM, F&I	EA		1/1/2010	
0747 70 31	TMS MODEM, INSTALL	EA		1/1/2010	

750- 1- AB ARCHITECTURAL- BUILDING

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** no

Notes

Details

For all new/major rehab Architectural work. Includes all work (building, plumbing, electrical, water, HVAC, etc.) for a complete building. Tech Specs must detail all items, construction, and materials.
For limited incidental work, see 751 items.
Do not use for movable bridge structures; see 508 items and/or contact Movable Bridge Section. Do not use for Signing, Lighting, ITS, or Signalization.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities
COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **750- 1- AB** **ARCHITECTURAL- BUILDING** **LS/SF**

A= Operation
1 (New)
5 (Rehab)
6 (Remove)

B= Facility
1 (Rest Area)
2 (Welcome Center)
3 (Weigh Station)
4 (Maintenance Facility Building)
5 (Office)
6 (Parking Garage)
7 (Storage/Mechanical)
8 (Uncovered Storage)
9 (Other building)*
*Contact Architectural Section for approval

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0750 1 11	ARCHITECTURAL, BUILDING, NEW, REST AREA	LS	T	1/1/2010	
0750 1 13	ARCHITECTURAL, BUILDING, NEW, WEIGH STATION	LS	T	1/1/2010	
0750 1 17	ARCHITECTURAL, BUILDING, NEW, STORAGE/MECHANICAL	LS	T	1/1/2010	
0750 1 19	ARCHITECTURAL, BUILDING, NEW, OTHER BUILDING	LS	T	1/1/2010	
0750 1 53	ARCHITECTURAL, BUILDING, REHAB, WEIGH STATION	LS	T	1/1/2010	
0750 1 55	ARCHITECTURAL, BUILDING, REHAB, OFFICE	LS	T	1/1/2010	
0750 1 59	ARCHITECTURAL, BUILDING, REHAB, OTHER BUILDING	LS	T	1/1/2010	

751- 2- ARCHITECTURAL- ELECTRICAL/POWER

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (lighting fixtures, generator, etc.), and materials for a complete electrical system, as detailed in the plans and/or tech specs.
Do not use for Signing, Lighting, ITS, or Signalization.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 2-** **ARCHITECTURAL- ELECTRICAL/POWER** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0751 2	ARCHITECTURAL - ELECTRICAL/POWER	LS	T	1/1/2010	

751- 3- ARCHITECTURAL- TELEPHONE/COMMUNICATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
DO NOT USE FOR: Signing, Lighting, ITS, or Signalization.

Includes all work, hardware, and materials for a complete Telephone/Communication system, as detailed in the plans and/or tech specs. Communications may include cable and/or fiber optic connections necessary for a complete system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 3-** **ARCHITECTURAL- TELEPHONE/COMMUNICATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 4- ARCHITECTURAL- WATER/SEWER INTERIOR

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (sinks, toilets, water fountains), and materials for a complete water/sewer system for the interior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 4-** **ARCHITECTURAL- WATER/SEWER INTERIOR** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 5- ARCHITECTURAL- WATER, SANITARY SEWER/SEWAGE TREATMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

For use on Architectural projects only. May be used with 750-1 (New/Rehab building) item for major items of work. For minor water/sewer work associated with building, include with 750-1 item.
Includes all work, hardware (lift station, treatment plant, etc.) for a complete water/sewer system for the exterior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status

Struct. **751- 5-** **ARCHITECTURAL- WATER, SANITARY SEWER/SEWAGE TREATMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0751 5	ARCHITECTURAL-WATER, SANITARY SEWER/SEWAGE TREATMENT	LS	T	1/1/2010	

751- 6- ARCHITECTURAL- HVAC

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (AC, ventilation, and/or heating units), and materials for a complete HVAC system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 6-** **ARCHITECTURAL- HVAC** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 10- ARCHITECTURAL- ASBESTOS ABATEMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Contact Architectural Section before opening, due to possible CARS contract.**

Details Check for possible CARS contract prior to using this item.
****
For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware, and materials for Asbestos Abatement, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 10-** **ARCHITECTURAL- ASBESTOS ABATEMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 11- A ARCHITECTURAL- SPECIAL

	Unit	**Accuracy**	**PlanQuantity?**

Notes **Contact State Structures Design Office and/or State Architectural Section prior to use in any contract**

Details For use on Structural/Architectural plans only.

This item is intended to cover Special Architectural elements not included with "Buildings". Structural/Architectural details must be included in the plans or specifications.

Related Items	**Required**		**Recommended**
Forms	**Design**		
	Construction		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Details and/or Technical Specifications required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 11- A** **ARCHITECTURAL- SPECIAL**

A= Description
1 (Walls/Towers) LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 20- A ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
For movable bridge structures, refer to Section 508 items. For all other applications, lightning protection is incidental to the item being protected.
Do not use for Signing, Lighting, ITS, or Signalization.
****

Includes all work, hardware, and materials for a complete lightning protection system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms

Design SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status

Struct. **751- 20- A** **ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM** **LS/LS**

A= Type of System
1 (Point Discharge)
2 (Static Charge Dissipation)
3 (Surge Suppression)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0751 20 1	ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, POINT OF DISCHARGE	LS	T	1/1/2010	
0751 20 3	ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, SURGE SUPPRESSION	LS	T	1/1/2010	

751- 30- A ARCHITECTURAL- PICNIC PAVILION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on Architectural projects only.
Size (small/large) and details as shown on Design Standards.
Non-standard sizes must be approved by the Architectural Section, with a new pay item request.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 530

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 30- A** **ARCHITECTURAL- PICNIC PAVILION** **EA**

A= Size, per index
1 (Small)
2 (Large)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0751 30 1	ARCHITECTURAL, PICNIC PAVILION, SMALL	EA	T	1/1/2010	

770- 75- A PRE-PASS SENSOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use at weigh/inspection stations only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **770- 75- A** **PRE-PASS SENSOR** **EA**

A= Location
1(Asphalt Embedded)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

770- 78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details The designer should details all requirements and components to be included in the system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	Normally requires SHOP DRAWINGS
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **770- 78-** **STATIC/WEIGH-IN-MOTION SCALE SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0770 78	STATIC / WEIGH-IN-MOTION SCALE SYSTEM	EA	T	1/1/2010	

770- 79- WEIGH STATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details The designer should detail all requirements and components to be included in the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Normally requires SHOP DRAWINGS

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **770- 79-** **WEIGH STATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0770 79	WEIGH STATION	LS	T	1/1/2010	

775- 70- SCALE PIT STRUCTURES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **775- 70-** **SCALE PIT STRUCTURES** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

775- 72- SCALE FOUNDATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **775- 72-** **SCALE FOUNDATION** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

780- 1- AB ITS ELECTRICAL POWER

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details For use in providing electrical power service to ITS devices in the field. Installations of service assemblies can be either for overhead or underground service, in accordance with the details in the plans, or in Index 17736 of the Design Standards. A service assembly may include a weather head, conduit, service wire, a meter base, service disconnect, and a transient protection device.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **780- 1- AB** **ITS ELECTRICAL POWER** **Mixed**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove and Dispose- Contractor takes ownership)

B= Type
1 (Service) AS
2 (Service Wire) LF

3 (Service Disconnect) EA

Notes Note: Accuracy for LF items is per Linear Foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0780 1 11	ITS ELECTRICAL POWER, F&I, SERVICE	AS		1/1/2010	
0780 1 12	ITS ELECTRICAL POWER, F&I, SERVICE WIRE	LF		1/1/2010	
0780 1 13	ITS ELECTRICAL POWER, F&I, SERVICE DISCONNECT	EA		1/1/2010	
0780 1 32	ITS ELECTRICAL POWER, INSTALL, SERVICE WIRE	LF		1/1/2010	
0780 1 41	ITS ELECTRICAL POWER, RELOCATE,SERVICE	AS		1/1/2010	
0780 1 42	ITS ELECTRICAL POWER, RELOCATE, SERVICE WIRE	LF		1/1/2010	
0780 1 43	ITS ELECTRICAL POWER, RELOCATE, SERVICE DISCONNECT	EA	T	1/1/2010	
0780 1 51	ITS ELECTRICAL POWER,ADJUST & MODIFY,SERVICE	AS		1/1/2010	
0780 1 52	ITS ELECTRICAL POWER, ADJUST & MODIFY,SERVICE WIRE	LF		1/1/2010	
0780 1 61	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE	LF		1/1/2010	
0780 1 62	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE WIRE	LF		1/1/2010	
0780 1 63	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE DISCONNECT	EA		1/1/2010	

781- 2- AB ITS HIGHWAY ADVISORY RADIO

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For installation along the roadway for the purpose of broadcasting traffic advisories to vehicle radios. The HAR installation consists of a radio antenna mounted on a pole, a control cabinet containing the transmitter, power supply, communication hardware, and conduit. The system includes a roadside HAR sign with flashing beacons to alert motorists that a message is being broadcast.
Transmitter wattage, siting information, and installation details should be noted in the plans. For temporary MAS systems during construction, refer to Maintenance Of Traffic, Section 102 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **781- 2- AB** **ITS HIGHWAY ADVISORY RADIO** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Power Type
1 (Solar)
2 (AC)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0781 2 12	ITS HIGHWAY ADVISORY RADIO, F&I, AC POWER	EA		1/1/2010	
0781 2 41	ITS HIGHWAY ADVISORY RADIO, RELOCATE, SOLAR POWER	EA		1/1/2010	
0781 2 42	ITS HIGHWAY ADVISORY RADIO, RELOCATE, AC	EA		1/1/2010	
0781 2 52	ITS HIGHWAY ADVISORY RADIO, ADJUST/MODIFY, AC	EA		1/1/2010	

781- 3-ABC ITS ROAD WEATHER INFORMATION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For installation at the roadside, on bridges or other new or existing structures to provide real-time weather data on temperature, humidity, precipitation, wind speed, and direction, and visibility. The RWIS is furnished with the weather instruments necessary to produce the readings desired and collects, stores, and processes the data for transmittal to the transportation management center (TMS). An RWIS with one central monitoring site can serve multiple field installations. The weather sensors are typically mounted on either a dedicated RWIS tower or existing structures.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **781- 3-ABC** **ITS ROAD WEATHER INFORMATION SYSTEM** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00

B= Equipment Type
1 (Field Hardware)
2 (Central Monitoring/Processing Equipment)

C= Sensor Mounting
1 (New Tower Included)
2 (Mounted to Existing Structure)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0781 3112	ITS ROAD WEATHER INFORMATION SYSTEM, FURNISH & INSTALL, FIELD HARDWARE, MOUNTED TO EXISTING STRUCTURE	EA		1/1/2010	
0781 3121	ITS ROAD WEATHER INFORMATION SYSTEM, FURNISH & INSTALL, CTRL MONITOR/PROC EQIP, NEW TOWER MOUNT	EA		1/1/2010	

781- 1A-BCD ITS DYNAMIC MESSAGE SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

From the PPM, "The DMS is an electronic sign capable of displaying more than one message, which is changeable manually, by remote control, or by automatic control. The DMS is intended primarily to advise approaching motorists of freeway conditions, such as road construction or a traffic incident ahead, so that they can take appropriate action. In some instances the DMS could be used to display other messages, such as AMBER Alerts or traveler information related to special events, emergencies, and incidents impacting mobility and safety. A DMS generally displays messages that can be selected or modified by electronic means from a TMC or other central command location. As such, system designs utilizing DMS must also include designs for a communication infrastructure that supports this remote control capability."

18" Character Displays: for installation along interstate, expressway, or limited access corridors, or speed limits of 45 MPH or higher.

12" Character Displays: may only be used on roadways with speed limits lower than 45mph

STRUCTURE TYPES: Mid-span- across one direction of travel; full span- across all lanes;

cantilever- at the roadside.

SIGN TYPE: Front display surface, with either line matrix- pixels arranged in rows, or full matrix- pixels fully covering the surface. Designer should note the size of sign, structure, and installation details in the plans.

NOTE:
FURNISH & INSTALL: includes the furnishing of both the truss/structure and sign

FURNISH: Furnish the sign only (Signs are available on State purchase contracts)

INSTALL: Install sign on existing structure

FURNISH & INSTALL STRUCTURE, INSTALL SIGN: When sign is provided by FDOT (may have been purchased on state contract, or relocated from another location). Contractor must provide/construct truss, install sign.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Chapter 7
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **781- 1A-BCD** **ITS DYNAMIC MESSAGE SIGN** **EA**

A= Operation
1 (Furnish & Install) Sign and structure; C= 1,2, or 3
2 (Furnish) Sign only; CD = 40
3 (Install) Dept Furnished Sign on existing structure; CD = 40
4 (Relocate Sign) to another existing structure; CD = 40
5 (Relocate Sign and Structure) to a new location; CD = 50
9 (Furnish & Install structure; Install Sign) C = 1, 2, or 3

B=Sign Type
1 (LED Line Matrix- 18" Character Display)
2 (LED Full Matrix- 18" Character Display)
3 (LED Line Matrix- 12" Character Display)
4 (LED Full Matrix- 12" Character Display)

C=Sign Support Structure
1 (Mid-span)
2 (Full Span)
3 (Cantilever) D=1, 2, or 3 only
4 NA: Sign Only; no structure furnished by Contractor; D=0
5 NA: Sign and Structure; valid for A=5 only

D= Horizontal Structure Length
0 (Blank; No Structure) when C=2, 3, 4, 5
1 (0' to 40')
2 (41' to 60')
3 (61' to 80')
4 (81' to 100')
5 (101' to 120')
6 (121 to 140')
7 (141 to 161')
8 (161 to 180')
9 (greater than 180')

Notes See detail for Furnish/Install options

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0781 11132	ITS DYNAMIC MESSAGE SIGN, F&I, LED LINE MATRIX 18" CHAR, CANTILEVER,TRUSS - 41 - 60'	EA		1/1/2010	
0781 11213	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX- 18" CHARACT, MID SPAN, TRUSS - 61 - 80'	EA		1/1/2010	
0781 11214	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 81 - 100'	EA		1/1/2010	
0781 11215	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 101 - 120'	EA		1/1/2010	
0781 11216	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 121 - 140'	EA		1/1/2010	
0781 11217	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 141 - 160'	EA		1/1/2010	
0781 11222	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 41 - 60'	EA		1/1/2010	
0781 11223	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 61 - 80'	EA		1/1/2010	
0781 11225	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 101 - 120'	EA		1/1/2010	
0781 11226	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 121 - 140'	EA		1/1/2010	
0781 11227	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 141 - 161'	EA		1/1/2010	
0781 11229	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'	EA		1/1/2010	
0781 11231	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 0 - 40'	EA		1/1/2010	
0781 11232	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'	EA		1/1/2010	

0781 11233	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 61 - 80'	EA	1/1/2010
0781 11240	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX,SIGN ONLY,NO STRUCTURE	EA	1/1/2010
0781 13213	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, MID SPAN,TRUSS - 61 - 80'	EA	1/1/2010
0781 13215	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, MID SPAN,TRUSS - 101 - 120'	EA	1/1/2010
0781 13216	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX MID SPAN,TRUSS - 121 - 140'	EA	1/1/2010
0781 13217	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX MID SPAN,TRUSS - 141 - 160'	EA	1/1/2010
0781 13228	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, FULL SPAN, 161-180'	EA	1/1/2010
0781 13231	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED - FULL MATRIX, CANTILEVER, 0 - 40'	EA	1/1/2010
0781 13240	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, SIGN ONLY, NO STRUCTURE	EA	1/1/2010
0781 14240	ITS DYNAMIC MESSAGE SIGN, RELOCATE SIGN TO EXISTING STRUCT, LED FULL MATRIX, SIGN ONLY	EA	1/1/2010
0781 15250	ITS DYNAMIC MESSAGE SIGN, RELOCATE SIGN AND STRUCTURE, LED FULL MATRIX	EA	1/1/2010
0781 19213	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 61 - 80'	EA	1/1/2010
0781 19214	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 81 - 100'	EA	1/1/2010
0781 19215	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 101 TO 120'	EA	1/1/2010
0781 19216	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 121 TO 140'	EA	1/1/2010
0781 19225	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - 101 TO 120'	EA	1/1/2010
0781 19228	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - 161 TO 180'	EA	1/1/2010
0781 19229	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'	EA	1/1/2010
0781 19231	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 0-40'	EA	1/1/2010
0781 19232	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'	EA	1/1/2010

0781 19431	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX 12", CANTILEVER, TRUSS - 0-40'	EA	1/1/2010

782- 1- AB ITS CCTV CAMERA

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply. Cameras can be dome style enclosures, or "barrel type" units with external positioners. Either unit can be pressurized to reduce the effects of moisture, dust, and other contaminants.

REMOVE & DISPOSE: Plans or Specs should identify the limits of the item to be removed (incidental components, wiring, or other work).
REMOVE & STOCKPILE: Plans or Specs should indicate if the Contractor is to stockpile the item(s) within the project limits, or deliver to a FDOT maintenance yard.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **782- 1- AB** **ITS CCTV CAMERA** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)
7 (Remove & Stockpile)

B= Type
1 (Dome enclosure, pressurized)
2 (External positioner, pressurized)
3 (Dome enclosure, non-pressurized)
4 (External positioner, non-pressurized)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0782 1 11	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED	EA		1/1/2010	
0782 1 13	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON PRESSURIZED	EA		1/1/2010	
0782 1 31	ITS CCTV CAMERA, INSTALL, DOME ENCLOSURE, PRESSURIZED	EA		1/1/2010	
0782 1 41	ITS CCTV CAMERA, RELOCATE, DOME ENCLOSURE, PRESSURIZED	EA		1/1/2010	
0782 1 43	ITS CCTV CAMERA, RELOCATE, DOME ENCLOSURE, NON - PRESSURIZED	EA		1/1/2010	
0782 1 61	ITS CCTV CAMERA,, REMOVE & DISPOSAL	EA		1/1/2010	
0782 1 71	ITS CCTV CAMERA,, REMOVE & STOCKPILE	EA		1/1/2010	

782- 2-ABC ITS VIDEO DISPLAY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use in the Transportation Management Center (TMC) to display video from the CCTV cameras in the field, and for displaying maps, graphics, traffic counts, and other visuals. Video Display cubes can be stacked to form a wall display. Other monitors are positioned in the room or on the operator's desktops for control purposes.
The video controller receives the incoming video signals and arranges them on the various displays.
Display types, room layout, and installation details must be noted in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **782- 2-ABC** **ITS VIDEO DISPLAY** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Component

1 (Cube for video wall) C=2
2 (Workstation) C=1 or 3
3 (Monitor)
4 (Controller) C=0

C= Technology
1 (LCD- Liquid Crystal Display)
2 (Rear Projection)
3 (CRT- Cathode Ray Tube)
4 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0782 2121	ITS VIDEO DISPLAY, F&I, WORK STATION, LIQUID CRYSTAL DISPLAY	EA		1/1/2010	
0782 2131	ITS VIDEO DISPLAY, F&I, MONITOR, LIQUID CRYSTAL DISPLAY	EA		1/1/2010	
0782 2140	ITS VIDEO DISPLAY, F&I, CONTROLLER	EA		1/1/2010	

782- 3- A ITS REST AREA INFORMATION SYSTEMS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in highway rest areas for the display of traffic conditions and other information for the traveling public. The system is rack mounted and has the necessary processing power, memory, network connection, and video output capability to provide images for LCD displays in the lobby or concourse area of rest plazas.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **782- 3- A** **ITS REST AREA INFORMATION SYSTEMS** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

5 (Adjust & Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

783- 1-ABC	**ITS FIBER OPTIC CABLE**		
	Unit LF; M1	**Accuracy** Linear Foot; 1/10 Meter	**PlanQuantity?** no

Notes

Details

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.
****
REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless otherwise indicated in the plans or specs.
REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	Vol 1, Chapter 7
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 1-ABC** **ITS FIBER OPTIC CABLE** **LF**

A= Operation
1 (Furnish & Install)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)

4 (97 to 144)

Notes *Remove item may require plan details and/or tech spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 1111	ITS FIBER OPTIC CABLE, F& I, OVERHEAD, 2 -12 FIBERS	LF		1/1/2010	
0783 1112	ITS FIBER OPTIC CABLE, F& I, OVERHEAD, 13 - 48 FIBERS	LF		1/1/2010	
0783 1113	ITS FIBER OPTIC CABLE, F& I, OVERHEAD, 49-96 FIBERS	LF		1/1/2010	
0783 1121	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 2 -12 FIBERS	LF		1/1/2010	
0783 1122	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 13 -48 FIBERS	LF		1/1/2010	
0783 1123	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2010	
0783 1323	ITS FIBER OPTIC CABLE, INSTALL, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2010	
0783 1411	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 2 -12 FIBERS	LF		1/1/2010	
0783 1412	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 13 -48 FIBERS	LF		1/1/2010	
0783 1413	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 49 - 96 FIBERS	LF		1/1/2010	
0783 1421	ITS FIBER OPTIC CABLE,RELOCATE,UNDERGROUND,2-12 FIBERS	LF		1/1/2010	
0783 1422	ITS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 13 -48 FIBERS	LF		1/1/2010	
0783 1423	ITS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2010	
0783 1511	ITS FIBER OPTIC CABLE, ADJUST/MODIFY, OVERHEAD, 2-12 FIBERS	LF		1/1/2010	
0783 1512	ITS FIBER OPTIC CABLE, ADJUST/MODIFY, OVERHEAD, 13-48 FIBERS	LF		1/1/2010	
0783 1521	ITS FIBER OPTIC CABLE, ADJUST/MODIFY, UNDERGRO, 2-12 FIBERS	LF		1/1/2010	
0783 1522	ITS FIBER OPTIC CABLE, ADJUST/MODIFY,UNDERGRND,13-48 FIBERS	LF		1/1/2010	
0783 1523	ITS FIBER OPTIC CABLE, ADJUST & MODIFY, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2010	
0783 1524	ITS FIBER OPTIC CABLE, ADJUST/MODIFY,UNDERGRND,97-144 FIBERS	LF		1/1/2010	
0783 1600	ITS FIBER OPTIC CABLE, REMOVE	LF		1/1/2010	
0783 1700	ITS FIBER OPTIC CABLE, REMOVE & STOCKPILE	LF		1/1/2010	

783- 2- AB ITS FIBER OPTIC CONNECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected.
Type of connection must be noted in the plans.

Related Items **Required** **Recommended** 783-3

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 2- AB** **ITS FIBER OPTIC CONNECTION** **EA**

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Splice)
2 (Termination)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 2 31	ITS FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA		1/1/2010	
0783 2 32	ITS FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA		1/1/2010	
0783 2 41	ITS FIBER OPTIC CONNECTION, RELOCATE, SPLICE	EA		1/1/2010	
0783 2 42	ITS FIBER OPTIC CONNECTION, RELOCATE, TERMINATION	EA		1/1/2010	
0783 2 51	ITS FIBER OPTIC CONNECTION,ADJUST/MODIFY, SPLICE	EA		1/1/2010	

0783 2 52	ITS FIBER OPTIC CONNECTION,ADJUST/MODIFY, TERMINATION	EA	1/1/2010

783- 3- AB ITS FIBER OPTIC CONNECTION HARDWARE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cord/cable.

Related Items **Required** **Recommended** 783-2

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 3- AB** **ITS FIBER OPTIC CONNECTION HARDWARE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B=Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Preterminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Preterminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)
8 (Patch Cord)* Tech Spec needed; see BOE detail

Notes *B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 3 11	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA		1/1/2010	
0783 3 12	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE, TRAY	EA		1/1/2010	
0783 3 13	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA		1/1/2010	
0783 3 14	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA		1/1/2010	
0783 3 15	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL, PRETERMINATED	EA		1/1/2010	
0783 3 16	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL. FIELD TERMINATED	EA		1/1/2010	
0783 3 17	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA		1/1/2010	
0783 3 32	ITS FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA		1/1/2010	
0783 3 41	ITS FIBER OPTIC CONNECTION HARDWARE, RELOCATEI, SPLICE ENCLOSURE	EA		1/1/2010	
0783 3 45	ITS FIBER OPTIC CONNECTION HARDWARE, REL, PATCH PANEL, PRETERMINATED	EA		1/1/2010	
0783 3 51	ITS FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE	EA		1/1/2010	

783- 4-1AB ITS CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 4-1AB** **ITS CONDUIT** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

Notes *Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 4111	ITS CONDUIT, F& I, ABOVEGROUND	LF		1/1/2010	
0783 4112	ITS CONDUIT, F& I, UNDERGROUND	LF		1/1/2010	
0783 4113	ITS CONDUIT, F& I, UNDER EXISTING PAVEMENT SAWCUT	LF		1/1/2010	
0783 4142	ITS CONDUIT, RELOCATEI, UNDERGROUND	LF		1/1/2010	
0783 4152	ITS CONDUIT, ADJUST/MODIFYI, UNDERGROUND	LF		1/1/2010	
0783 4160	ITS CONDUIT, REMOVE&DISPOSE	LF		1/1/2010	

783- 5- A ITS PULL BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specification for size, materials, and other details for box.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 5- A** **ITS PULL BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 5 1	ITS PULL BOX FOR FIBER OPTIC CABLE, FURNISH AND INSTALL	EA		1/1/2010	
0783 5 4	ITS PULL BOX FOR FIBER OPTIC CABLE, RELOCATE	EA		1/1/2010	
0783 5 5	ITS PULL BOX FOR FIBER OPTIC CABLE, ADJUST AND MODIFY	EA		1/1/2010	

783- 6- A ITS SPLICE BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specification for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 6- A** **ITS SPLICE BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 6 1	ITS SPLICE BOX FOR FIBER OPTIC CABLE, F & I	EA		1/1/2010	
0783 6 4	ITS SPLICE BOX FOR FIBER OPTIC CABLE, RELOCATE	EA		1/1/2010	
0783 6 5	ITS SPLICE BOX FOR FIBER OPTIC CABLE, ADJUST/ MODIFY	EA		1/1/2010	
0783 6 6	ITS SPLICE BOX FOR FIBER OPTIC CABLE, REMOVE AND DISPOSE	EA		1/1/2010	

783- 7- A ITS PULL AND JUNCTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on ITS projects. To be used for non-fiber optic wiring needs (power, communication, etc for ITS systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
****
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 7- A** **ITS PULL AND JUNCTION BOX** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
7 (Remove and Stockpile)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 7 1	ITS PULL & JUNCTION BOX, FURNISH AND INSTALL	EA	T	1/1/2010	
0783 7 3	ITS PULL & JUNCTION BOX, INSTALL	EA	T	1/1/2010	
0783 7 4	ITS PULL & JUNCTION BOX, RELOCATE	EA	T	1/1/2010	
0783 7 5	ITS PULL & JUNCTION BOX, ADJUST/MODIFY	EA	T	1/1/2010	
0783 7 7	ITS PULL & JUNCTION BOX, REMOVE & STOCKPILE	EA	T	1/1/2010	

783- 8- A ITS MULTI-CONDUCTOR COMMUNICATION CABLE

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes

Details

For use on ITS projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Documentation

Construction Refer to Comp Book

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

References

Construction

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 8- A** **ITS MULTI-CONDUCTOR COMMUNICATION CABLE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 8 1	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	LF	T	1/1/2010	
0783 8 3	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, INSTALL	LF	T	1/1/2010	
0783 8 4	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, RELOCATE	LF	T	1/1/2010	
0783 8 5	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, ADJUST/MODIFY	LF	T	1/1/2010	

783- 9- AB ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on ITS projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that cane be used together to determine the location of the underground utilities and other objects.
Special configuration and/or installation details should be detailed in the plans on a project-by project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing ITS boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the ITS conduit price, per specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **783- 9- AB** **ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Equipment Type
1 (Transmitter)
2 (Receiver)
3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0783 9 11	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, TRANSMITTER	EA		1/1/2010	
0783 9 12	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, RECEIVER	EA		1/1/2010	
0783 9 13	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, BOX MARKER	EA		1/1/2010	

784- 1- A ITS MANAGED FIELD ETHERNET SWITCH

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in ITS communication networks to provide wire-speed fast Ethernet connections for ITS field devices. The Ethernet switch is hardened to withstand harsh environments and provides transmission rates of 100 megabits per second from the remote ITS device installation location to the ITS network trunk interconnection point.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 1- A** **ITS MANAGED FIELD ETHERNET SWITCH** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0784 1 1	ITS MANAGED FIELD ETHERNET SWITCH, F&I	EA		1/1/2010	
0784 1 2	ITS MANAGED FIELD ETHERNET SWITCH, FURNISH ONLY	EA		1/1/2010	
0784 1 3	ITS MANAGED FIELD ETHERNET SWITCH, INSTALL	EA		1/1/2010	
0784 1 4	ITS MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA		1/1/2010	
0784 1 6	ITS MANAGED FIELD ETHERNET SWITCH, REMOVE & DISPOSE, CONTRACTOR TAKE OWNERSHIP	EA		1/1/2010	

784- 2- A ITS DEVICE SERVER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use when an ITS field device must connect to an Ethernet network but the device is only equipped with serial communication ports (i.e. EIA-232, EIA-422, or EIA-485 connections). Field devices that may require use of device servers include highway advisory radio field assemblies, microwave vehicle detection system devices, magnetic traffic detection systems, road weather information system stations, and other low-speed data output devices.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 2- A** **ITS DEVICE SERVER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0784 2 1	ITS DEVICE SERVER, F&I	EA		1/1/2010	
0784 2 3	ITS DEVICE SERVER, INSTALL	EA		1/1/2010	
0784 2 4	ITS DEVICE SERVER, ADJUST/MODIFY	EA		1/1/2010	

784- 3- AB ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use when analog video and data signals obtained in the field must be converted to digital signals for transmission across IP networks. The encoder and decoder are independent, network-based devices that utilize MPEG-2 and other video compression algorithms for transmission of high-bandwidth signals. Encoders may be hardened devices and are installed in the field. Decoders are housed in transportation management centers and can be either a hardware device or a decoder software program running on a computer.
NOTE: Software based decoder is incidental to the digital video encoder, per specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 3- AB** **ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership, B=0

B= Component
1 (Hardened Encoder)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0784 3 11	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, F&I, HARDENED ENCODER	EA		1/1/2010	
0784 3 30	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, INSTALL	EA	T	1/1/2010	
0784 3 50	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, AJDUST/MODIFY	EA	T	1/1/2010	
0784 3 60	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, REMOVE & DISPOSE, HARDENED ENCODER	EA		1/1/2010	

784- 4- AB ITS DIGITAL VIDEO DECODER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details DO NOT USE with Digital Video Encoder; see details with 784-3 item.
This item to be used only when a hardware-based decoder, or additional copies of the software-based decoder are needed.
Contact ITS Section prior to opening.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 4- AB** **ITS DIGITAL VIDEO DECODER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership B=0

B= Component*
1 (Hardware-based decoder)
2 (Software-based decoder)
*See details and/or specifications

Notes Contact ITS Section prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

784- 5- AB ITS MANAGED ETHERNET HUB SWITCH

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in ITS communication networks to provide centralized Ethernet connections for ITS field devices utilizing field or edge switches. The Ethernet hub switch is hardened to withstand harsh environments and installation at remote locations. "Long haul" and "short haul" are common terms applied to telecommunication equipment in order to generally describe a devices ability to transmit information over various distances.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 5- AB** **ITS MANAGED ETHERNET HUB SWITCH** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate))
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

B= Type
1 (Long Haul)
2 (Short Haul)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0784 5 11	ITS MANAGED ETHERNET HUB SWITCH,F&I, LONG HAUL	EA	T	1/1/2010	
0784 5 12	ITS MANAGED ETHERNET HUB SWITCH,F&I, SHORT HAUL	EA	T	1/1/2010	
0784 5 30	ITS MANAGED ETHERNET HUB SWITCH,INSTALL	EA	T	1/1/2010	
0784 5 51	ITS MANAGED ETHERNET HUB SWITCH, ADJUST/MODIFY, LONG HAUL	EA	T	1/1/2010	

784- 6- AB ITS WIRELESS COMMUNICATION DEVICE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in transmitting and receiving data in ITS networks, especially between remotely located field devices and the mainline communications infrastructure tat serves them. Devices include radio transmitter-receivers and antennas, power-over-Ethernet (PoE) injectors, serial cable, power supplies and mounting hardware. Access points and subscriber units are typically associated with Ethernet systems.
Specifications needed to detail equipment requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **784- 6- AB** **ITS WIRELESS COMMUNICATION DEVICE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate))
5 (Adjust /Modify)
6 (Remove and Dispose) B=0, Contractor takes ownership

B= Type
1 (Ethernet Access Point)
2 (Ethernet Subscriber Unit)
3 (Serial Data Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0784 6 11	ITS WIRELESS COMMUNICATION DEVICE,F&I,ETHERNET ACCESS POINT	EA	T	1/1/2010	
0784 6 12	ITS WIRELESS COMMUNICATION DEVICE, F&I, ETHERNET SUBSCRIBER UNIT	EA	T	1/1/2010	
0784 6 41	ITS WIRELESS COMMUNICATION DEVICE,RELOCATE,ETHERNET ACCESS POINT	EA	T	1/1/2010	
0784 6 60	ITS WIRELESS COMMUNICATION DEVICE,REMOVE & DISPOSE	EA	T	1/1/2010	

785- 1- AB ITS POLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Use a lowering device in field locations where a CCTV camera or other ITS device is mounted on a pole, but the height precludes easy access to the equipment for maintenance or repair. The lowering device is provided along with a steel or concrete pole.

REMOVE: Plans or specs should identify if contactor is to take ownership, stockpile, or

deliver item(s) to a FDOT maintenance yard.
Retrofit: to be used where a pole is already provided, to include furnishing & installation of lowering device.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **785- 1- AB** **ITS POLE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) B=0
9 (Retrofit lowering device on existing pole) B=0

B= Type
1 (Concrete Pole w/ lowering device)
2 (Steel Pole w/ lowering device)
3 (Concrete Pole w/o lowering device)
4 (Steel Pole w/o lowering device)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0785 1 11	ITS POLE, F&I, CONCRETE - WITH LOWERING DEVICE	EA		1/1/2010	
0785 1 12	ITS POLE, F&I, STEEL WITH LOWERING DEVICE	EA		1/1/2010	
0785 1 13	ITS POLE, F&I, CONCRETE WITHOUT LOWERING DEVICE	EA		1/1/2010	
0785 1 14	ITS POLE, F&I, STEEL WITHOUT LOWERING DEVICE	EA		1/1/2010	
0785 1 42	ITS POLE, RELOCATE, STEEL POLE WITH LOWERING DEVICE	EA		1/1/2010	
0785 1 43	ITS POLE, RELOCATE, CONCRETE POLE WITHOUT LOWERING DEVICE	EA		1/1/2010	

0785 1 60	ITS POLE, REMOVE	EA	1/1/2010
0785 1 63	ITS POLE, REMOVE, CONCRETE POLE WITHOUT LOWERING DEVICE	EA	1/1/2010

785- 2-ABC ITS FIELD CABINET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on ITS project. Refer to Specification for cabinets covered by Section 785.
For Install, relocate, or adjust/modify operations, detail mounting requirements in the plans and/or specifications. Specifications for Install only items should include existing location of materials/equipment (i.e. maintenance yard address)
NOTE: Items listed in other sections may have cabinets incidental to item being installed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **785- 2-ABC** **ITS FIELD CABINET** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership BC=00

B= Type
1 (Type 336)
2 (Type 336 w/ sunshields)
3 (Type 336S)
4 (Type 336S w/ sunshields)
5 (Type 332)
6 (Type 332 w/ sunshields)

9 (Special)*

C= Mounting
1 (Pole Mount)
2 (Ground Mount)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0785 2111	ITS FIELD CABINET, F&I, TYPE 336, POLE MOUNT	EA		1/1/2010	
0785 2112	ITS FIELD CABINET, F&I, TYPE 336, GROUND MOUNT	EA		1/1/2010	
0785 2121	ITS FIELD CABINET, F&I, TYPE 336 WITH SUNSHIELDS, POLE MOUNT	EA		1/1/2010	
0785 2122	ITS FIELD CABINET, F&I, TYPE 336 WITH SUNSHIELDS, GROUND MOUNT	EA		1/1/2010	
0785 2131	ITS FIELD CABINET, F&I, TYPE 336S, POLE MOUNT	EA		1/1/2010	
0785 2141	ITS FIELD CABINET, F&I, TYPE 336S WITH SUNSHIELDS, POLE MOUNT	EA		1/1/2010	
0785 2161	ITS FIELD CABINET, F&I, TYPE 332 W/SUNSHIELDS, POLE MOUNT	EA		1/1/2010	
0785 2162	ITS FIELD CABINET, F&I, TYPE 332 W/SUNSHIELDS, GROUND MOUNT	EA		1/1/2010	
0785 2191	ITS FIELD CABINET, F&I, SPECIAL, POLE MOUNT	EA		1/1/2010	
0785 2192	ITS FIELD CABINET, F&I, SPECIAL, GROUND MOUNT	EA		1/1/2010	
0785 2300	ITS FIELD CABINET, INSTALL	EA		1/1/2010	
0785 2400	ITS FIELD CABINET, RELOCATE	EA		1/1/2010	
0785 2500	ITS FIELD CABINET, ADJUST/MODIFY	EA		1/1/2010	
0785 2600	ITS CABINET, REMOVE & DISPOSE	EA		1/1/2010	

785- 3-ABC ITS EQUIPMENT SHELTER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use on ITS Projects. Refer to Specification for cabinets/shelter covered by Section 785. All shelter/building incidentals must be detailed in the plans or specifications, including electrical, mechanical, and/or HVAC.

DO NOT Use 750 Architectural Items with this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **785- 3-ABC** **ITS EQUIPMENT SHELTER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)*
3 (Install) BC=00*
4 (Relocate) BC=00*
5 (Adjust /Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership

B= Size (from exterior dimensions)
1 (up to 120 ft2)
2 (121 to 170 ft2)
3 (171 to 250 ft2)
9 (Special)*

C= Interior Ceiling Height
1 (8 ft)
2 (9 ft)

Notes *A=2, 3, 4 verify with ITS Office prior to opening
*B=9 may require Tech Spec or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0785 3111	ITS EQUIPMENT SHELTER, F&I, 120 SQUARE FEET OR LESS 8' INTERIOR CEILING HEIGHT	EA	T	1/1/2010	
0785 3112	ITS EQUIPMENT SHELTER, F&I, 120 SQUARE FEET OR LESS 9' INTERIOR CEILING HEIGHT	EA	T	1/1/2010	
0785 3191	ITS EQUIPMENT SHELTER, F&I, SPECIAL 9' INTERIOR CEILING HEIGHT	EA	T	1/1/2010	

786- 1- AB **ITS VEHICLE DETECTION SYSTEM**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use on ITS Projects. Refer to Specifications for types of detection systems. Special Detection Systems require approval of the State ITS Office.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	**Recommended**
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Selected Items may require Plan Details and/or Technical Specifications
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS or Signalization

Status

Struct. **786- 1- AB** **ITS VEHICLE DETECTION SYSTEM** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0

B= Detector Type
1 (Microwave)
2 (Video)
3 (Magnetic)
4 (Acoustic)
9 (Special) * Note: Requires prior approval of the ITS Office

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0786 1 11	ITS VEHICLE DETECTION SYSTEM, F&I, MICROWAVE	EA		1/1/2010	
0786 1 12	ITS VEHICLE DETECTION SYSTEM, F&I, VIDEO DETECTOR	EA		1/1/2010	
0786 1 13	ITS VEHICLE DETECTION SYSTEM, F&I, MAGNETIC DETECTOR	EA		1/1/2010	
0786 1 19	ITS VEHICLE DETECTION SYSTEM, F&I, SPECIAL	EA	T	1/1/2010	

0786 1 31	ITS VEHICLE DETECTION SYSTEM, INSTALL, MICROWAVE	EA		1/1/2010
0786 1 39	ITS VEHICLE DETECTION SYSTEM, INSTALL, SPECIAL	EA	T	1/1/2010
0786 1 41	ITS VEHICLE DETECTION SYSTEM, RELOCATE, MICROWAVE	EA		1/1/2010
0786 1 42	ITS VEHICLE DETECTION SYSTEM, RELOCATE, VIDEO	EA		1/1/2010
0786 1 49	ITS VEHICLE DETECTION SYSTEM, RELOCATE, SPECIAL	EA		1/1/2010
0786 1 51	ITS VEHICLE DETECTION SYSTEM, ADJUST & MODIFY, MICROWAVE	EA		1/1/2010

800-	MASS TRANSIT- RAIL ROAD		
	Unit	**Accuracy**	**PlanQuantity?**
Notes	**Items 800 to 899: Mass Transit items removed due to lack of use. Item Structures restored upon request.**		
Details			
Related Items	**Required**	**Recommended**	
Forms	**Design**		
	Construction		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Details and/or Technical Specifications required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **800-** **MASS TRANSIT- RAIL ROAD**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

823- 1A-BBB	SUBBALLAST		
	Unit SF; M2	**Accuracy** Square Foot; 1/10 Square Meter	**PlanQuantity?** no
Notes			
Details	This item is to be used for railroad applications only. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet	
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0900 Mass Transit

Status

Struct. **823- 1A-BBB** **SUBBALLAST** **SF**

A =Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Modify)

BBB =
3 (3 in.)
4 (4 in.)
5 (5 in.)
6 (6 in.)
12 (12 in.)

Notes NOTE: Open in one inch increments only (Mass Transit Item)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0823 11 12	MASS TRANSIT- SUBBALLAST, F&I, 12 IN DEPTH	SF	T	1/1/2010	

825-6AB-CDE CROSSOVER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This item is to be used for railroad applications only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0900 Mass Transit

Status

Struct. **825-6AB-CDE** **CROSSOVER** **EA**

A =Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Modify)

B = Rail Size
1 (100 lb/yd)
2 (115 lb/yd)
3 (119 lb/yd)
4 (132 lb/yd)
5 (133 lb/yd)
6 (136 lb/yd)
7 (140 lb/yd)
8 (Special)

C = 1 (Right Hand)
2 (Left Hand)

D = Crossover Size
1 (No. 08)
2 (No. 10)
3 (No. 12)
4 (No. 14)
5 (No. 15)
6 (No. 16)
7 (No. 18)
8 (No. 20)

E = Tie Type
1 (Timber)
2 (Concrete)
3 (Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

903-460- A TUNNEL CONSTRUCTION

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use.**

Details Intended for Lafayette St, Tallahassee, only. Valid for project 408049 only to be used in accordance with Tech Spec.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **903-460- A** **TUNNEL CONSTRUCTION** **LF**

A= Type
1 (12' Diameter, F&I) LF
2 (Electrical Service for Tunnel Construction) LS
3 (Telephone Service for Tunnel Construction) LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0903460 1	TUNNEL CONSTRUCTION, F&I, 12' DIAMETER	LF	T	1/1/2010	6/30/2010
0903460 2	ELECTRICAL SERVICE FOR TUNNEL CONSTRUCTION	LS	T	1/1/2010	6/30/2010
0903460 3	TELEPHONE SERVICE FOR TUNNEL CONSTRUCTION	LS	T	1/1/2010	6/30/2010

904-439- A SYNTHETIC SUBSURFACE DRAINAGE LAYER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Larry Jones, State Structures Office**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **904-439- A** **SYNTHETIC SUBSURFACE DRAINAGE LAYER** **SY**

A= sides covered by geotextile
1 (single sided)
2 (double sided)
Note: Standard is double sided

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0904439 2	SYNTHETIC SUBSURFACE DRAINAGE LAYER,DOUBLE SIDED	SY		1/1/2010	12/31/2012

904-540- A HIGH TENSION CABLE BARRIER SYSTEM

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?** no

Notes **Monitor: Andy Keel**

Details This is a trial item; contact the Monitor prior to use. Refer to Design Bulletin 07-08 for additional details.

Through 12/05: A=1 complete system included anchors.
Effective 1/2006: A=2 or 3 defines type of post system, to be used with A=4 end terminal.
Effective 6/2007: Reinstated A=1.

THE MONITOR WILL SELECT WHICH ITEM(S) are to be used on a given project, as well as advise when specific notes and/or details are to be added to the plans.

Use Miscellaneous Asphalt item for mow strip.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **904-540- A** **HIGH TENSION CABLE BARRIER SYSTEM** **LF**

A= Type*
1 (System with anchors) LF
2 (Socketed Post System) LF
3 (Driven Post System) LF
4 (End Terminal) EA

Notes *The Monitor will select which item(s) to use on a given project.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0904540 2	HIGH TENSION CABLE BARRIER SYSTEM - SOCKETED POST	LF	T	1/1/2010	
0904540 4	HIGH TENSION CABLE BARRIER SYSTEM - END TERMINAL	EA	T	1/1/2010	
0904540 10	HIGH TENSION CABLE BARRIER SYSTEM - RELOCATE	LF	T	1/1/2010	

906-102- 1 AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes **Monitor: Cheryl Adams**

Details This is a developmental item; designers must get approval from the monitor prior to use.

Limited Use- When approved, Construction must document effectiveness for FHWA evaluation of this experimental item. Coordinate all reports with the monitor.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 906-546- 1

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Developmental Specification required.
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **906-102- 1** **AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-173- A POLYURETHANE INJECTION

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** no

Notes **Monitor: Larry Jones, State Structures Design Office.**

Details This is a trial item; contact the Monitor prior to use.

To be used only with approval of State Structures Design Office, for specialty geotechnical work.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **906-173- A** **POLYURETHANE INJECTION** **LB**

A= location
1 (At Box Culvert)
2 (At Bridge Approach Slab)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0906173 2	POLYURETHANE INJECTION AT BRIDGE APPROACH SLAB	LB	T	1/1/2010	

906-546- A TEMPORARY RAISED RUMBLE STRIP SET

Unit PS **Accuracy** Per Set **PlanQuantity?** yes

Notes **Monitor: Cheryl Adams**

Details This is a trial item; contact the Monitor prior to use

For use with flagging operations on a two-lane, two way roadway. Four Sets are to be used, in each direction of the roadway, in advance of the flagging station. Refer to the specification for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Developmental Specification required.

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **906-546- A** **TEMPORARY RAISED RUMBLE STRIP SET** **PS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0906546 1	RUMBLE STRIPS, RAISED, TEMPORARY	PS		1/1/2010	

906-548- 1 SOLDIER PILE WALL

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** no

Notes **This is a project-specific item.**

Details Contact the State Structures Design Office prior to requesting this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **906-548- 1** **SOLDIER PILE WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0906548 1	SOLDIER PILE WALL	SF	M	1/1/2010	12/31/2010

906-548- 2 SOLDIER NAIL WALL

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** no

Notes **This is a project-specific item.**

Details Contact the State Structures Design Office prior to requesting this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **906-548- 2** **SOLDIER NAIL WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0906548 2	SOIL NAIL WALL	SF	M	1/1/2010	12/31/2010

906-702- AA WET WEATHER PAVEMENT MARKINGS, formerly INVERTED RIB PROFILE MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Monitor: Chester Henson**

Details Pay Item structure updated with 10-19-09 developmental specification.

Note: Removal item must be used for removal of existing stripe, prior to installation of new 702 stripe. Convert length of existing stripe to square foot area.

Related Items **Required** **Recommended**

Forms **Design** SBTBSP: Tabulation of Quantities- Signing & Pavement Markings

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. **906-702- AA** **WET WEATHER PAVEMENT MARKINGS, formerly INVERTED RIB PROFILE MARKINGS** **Mixed**

Verify structure with Monitor prior to opening items
AA= valid through 12-31-2009
31 (White, Skip, 6") GM
32 (Yellow, Skip, 6") GM
33 (White, Skip, 6") LF
34(Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM

AAA= effective 1-2010 letting, with updated developmental specification
others, per specification.
17 (Removal of Existing Markings, prior to installation of Wet Weather Markings ONLY) SF
111 (Solid, White, 6") per net mile
131 (Solid, yellow, 6") per net mile

211 (Skip, White, 6") per gross mile
231 (Skip, yellow, 6") per gross mile

311 (Solid Wet Weather and Audible, White, 6"), per net mile
331 (Solid Wet Weather and Audible, Yellow, 6"), per net mile

411 (Skip Wet Weather and Audible, White, 6") per gross mile
431 (Skip Wet Weather and Audible, Yellow, 6") per gross mile

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0906702 17	WET WEATHER MARKINGS, REMOVE EXISTING MARKINGS	SF	T	1/1/2010	6/30/2010
0906702111	WET WEATHER MARKINGS, SOLID, WHITE, 6"	NM	T	1/1/2010	6/30/2010
0906702131	WET WEATHER MARKINGS, SOLID, YELLOW, 6"	NM	T	1/1/2010	6/30/2010
0906702211	WET WEATHER MARKINGS, SKIP, WHITE, 6"	GM	T	1/1/2010	6/30/2010
0906702231	WET WEATHER MARKINGS, SKIP, YELLOW, 6"	GM	T	1/1/2010	6/30/2010
0906702311	WET WEATHER AND AUDIBLE MARKINGS, SOLID, WHITE, 6"	NM	T	1/1/2010	6/30/2010
0906702331	WET WEATHER AND AUDIBLE MARKINGS, SOLID, YELLOW, 6"	NM	T	1/1/2010	6/30/2010
0906702411	WET WEATHER AND AUDIBLE MARKINGS, SKIP, WHITE, 6"	GM	T	1/1/2010	6/30/2010
0906702431	WET WEATHER AND AUDIBLE MARKINGS, SKIP, YELLOW, 6"	GM	T	1/1/2010	6/30/2010

908-333- 1 HIGH FRICTION SURFACE COURSE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Charles Holzschuher**

Details This is a developmental Item. Project specific approval required.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **908-333- 1** **HIGH FRICTION SURFACE COURSE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0908333 1	HIGH FRICTION SURFACE COURSE	SY	D	1/1/2010	6/30/2010

908-350- A FIBER REINFORCED CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **Monitor: Manny Uwaibi**

Details This is a monitored item. It may be used only with approval of the State Pavement Design Office.

Technical Specifications required to detail glass fiber reinforcement. Concrete pavement to be installed in accordance with Section 350, unless otherwise noted in the specifications.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**

Other

Standards

Specifications 350

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **908-350- A** **FIBER REINFORCED CONCRETE PAVEMENT** **SY**

A= Thickness
1 (11" Average)
2 (14" Average)
3 (8.5" Average)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0908350 1	FIBER REINFORCED CONCRETE PAVEMENT, 11" AVE THICKNESS	SY	M	1/1/2010	12/31/2010
0908350 2	FIBER REINFORCED CONCRETE PAVEMENT, 14" AVE THICKNESS	SY	M	1/1/2010	12/31/2010
0908350 3	FIBER REINFORCED CONCRETE PAVEMENT, 8.5" AVE THICKNESS	SY	M	1/1/2010	12/31/2010

908-431- A PIPE LINER- SECTIONAL REPAIR

Unit LF; M1 **Accuracy** Linear Foot; 1/10 Meter **PlanQuantity?**

Notes **Monitors: Michael Shepard and Larry Ritchie**

Details Contact the State Drainage Office prior to use.

Box-to-Box repairs are normally preferred (use Item 431-). When a Sectional Repair is considered, coordinate with the State Drainage Office. New materials/methods may be recommended.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-431- A** **PIPE LINER- SECTIONAL REPAIR** **LF**

A= Pipe Diameter Size Range
1 (0=-24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" and greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

908-571- 1 TRANSITION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Larry Ritchie, State Construction Office**

Details Contact the State Construction Office for approval, prior to using this item.

Transition Mat for scour and permanent erosion control.

See 530-79 for Plastic Cellular Confinement System for other drainage/erosion control applications.

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-571- 1** **TRANSITION MAT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

909-335- A MICRO-SURFACING FOR PAVEMENT PRESERVATION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **MONITOR: Manny Uwaibi, State Pavement Design Office.**
Developmental Item

Details Contact the State Pavement Design Office for approval, prior to using this item.

This item is a polymer-modified emulsion aggregate mixture, placed as a thin overlay, for the preservation of mildly distressed pavements and as a means to restore friction resistance to pavement.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Documentation	**Construction**	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **909-335- A** **MICRO-SURFACING FOR PAVEMENT PRESERVATION** **SY**

A= Project Number
1 no number required

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0909335 1	MICRO-SURFACING	SY	T	1/1/2010	
0909335 2	MICRO-SURFACING- CRACK FILLING	LF	T	1/1/2010	

910-425- 1 FLOATING MANHOLE FRAME AND COVER SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Monitor: Paul Steinman, State Construction Engineer**

Details This is a monitored item, to be used only with approval of the State Construction Engineer. Coordinate specifications with Paul Steinman or David Wang.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **910-425- 1** **FLOATING MANHOLE FRAME AND COVER SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0910425 1	FLOATING MANHOLE FRAME AND COVER SYSTEM	EA		1/1/2010	

999- 2- LUMP SUM CONTRACT (ALTERNATIVE BIDDING)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details See latest guidelines for Innovative Bidding practices.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 2-** **LUMP SUM CONTRACT (ALTERNATIVE BIDDING)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0999 2	LUMP SUM CONTRACT, ALTERNATIVE BIDDING	LS		1/1/2010	

999- 16- PARTNERING (DO NOT BID)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details The use of this pay item will be initiated by the District Construction Office. The purpose is to provide an amount of money to the contractor to pay for the cost of a partnering session(s). Designers will load the pay item and provide the cost to be overrun to the District Estimates Coordinator.
NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days and the cost per day.

Related Items	Required	Recommended
Forms	**Design**	SHTabQuantLS: LS Tabulation of Quantities
		COMP 700-050-05: Lump Sum Quantities
	Construction	Refer to Comp Book
Documentation	**Design**	Computation book form or documentation from Construction required.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 16-** **PARTNERING (DO NOT BID)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0999 16	PARTNERING, DO NOT BID	LS		1/1/2010	

999- 20- DISPUTE REVIEW BOARD (DO NOT BID)

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details The use of this pay item will be initiated by the District Construction Office. The purpose is to require a Dispute Resolution Board to be established for the project and to provide the contractor a specific amount of money to pay for the services of each of the three Board members. Designers will load the pay item and the number of days (meetings).
NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days (meetings), based on 1 meeting per month for the length of the contract. The cost has been hard coded at $3,300.00* as the unit price for this item. Only the Director of Construction can approve a change to this amount.
*Verify current amount with specification.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Computation book form or documentation from Construction required.

Construction Record final quantity on the computation book form.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 20-** **DISPUTE REVIEW BOARD (DO NOT BID)** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0999 20	DISPUTES REVIEW BOARD, DO NOT BID	DA		1/1/2010	

999- 25- INITIAL CONTINGENCY AMOUNT (DO NOT BID)

Unit $ **Accuracy** Dollars **PlanQuantity?** no

Notes **IMPORTANT: INITIAL CONTINGENCY TOTAL IS BASED ON PROPOSAL TOTAL, not**

individual project totals.

Details DESIGN: Use when requested by Construction, in accordance with the CPAM (Construction Project Administration Manual). The item will be loaded as "Participating" and the cost will be input by the District Estimates Coordinator. Load item in Roadway Category When a contract contains multiple projects, this item may be used on each project within the contract, if recommended by construction. Note that the totals listed in the CPAM are per PROPOSAL/CONTRACT, not per project.
Department Policy (per F. Simmons, 10-1-02): Include Initial Contingency Amount on all Design-Build Contracts.

CONSTRUCTION: Participating/Non-Participating payment will be determined by Construction, based on the item(s) of work.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** See Detail

Construction see detail

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 25-** **INITIAL CONTINGENCY AMOUNT (DO NOT BID)** **$**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS		1/1/2010	

999-102- A SPEED AND LAW ENFORCEMENT OFFICER

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes **Monitor: Cheryl Adams**
A=Contract Type refers to the contract between FDOT and Law enforcement, NOT the type of Construction Contract.

Details This item is used by the Construction Engineer to provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling speed and enforcing traffic laws in the work zone. Officers should be actively involved in either directing traffic or reducing speeding and traffic violations present in our work zones.

Note: The type of construction contract and/or location for letting (Tallahassee or District letting) is not a factor in selecting the type of Law Enforcement contract. Contact your Project Manager to determine the available Law Enforcement Contract(s) available in your district.

Per the PPM, "The documentation for Speed and Law Enforcement Officer will be shown in the Computation Book only and there will be no reference made to these services in the plans, except as shown on the Summary of Pay Items Sheet." Refer to the PPM for calculation and documentation of this item.

Related Items **Required** **Recommended** 102- 14 (2012- 14)

Forms **Design** CADD Form not specified.

Construction Refer to Comp Book

Documentation **Design** See Detail

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Ch 10

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999-102- A** **SPEED AND LAW ENFORCEMENT OFFICER** **MH**

A = Contract Type (Between FDOT and the Law Enforcement Agency)
1 = Central Office Statewide Contract
2 = District Contract

STATE FURNISHED; NON BID ITEM

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0999102 1	SPEED & LAW ENFORCEMENT OFFICER, STATE FURNISHED, CENTRAL CONTRACT, NON BID ITEM	MH		1/1/2010	
0999102 2	SPEED & LAW ENFORCEMENT OFFICER, STATE FURNISHED, DISTRICT CONTRACT, NON BID ITEM	MH		1/1/2010	

9AA-BBB- CC SPECIAL, DEVELOPMENTAL, OR TRIAL PAY ITEMS: SECTION

Unit **Accuracy** **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** See Detail

Construction see detail

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0000 Administrative

Status

Struct. **9AA-BBB- CC** **SPECIAL, DEVELOPMENTAL, OR TRIAL PAY ITEMS: SECTION**

Notes AA = Year of Development
BBB= Spec Book Section
CC = Sequence of New Item in Spec Book Section
01 = (First Trial Item for Year)
02 = (Second Trial Item for Year) Etc.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

0000-DDD-AAA **GENERIC PAY ITEM**

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details Generic Items: Contact the State Specifications and Estimates Office prior to use.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0600 Landscaping

Status

Struct. **0000-DDD-AAA** **GENERIC PAY ITEM** **Mixed**

DDD= Design Group
AAA= Item description, defined in plans with unit of measure

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0000100 1	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010	
0000100 2	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM2	ZZ	G	1/1/2010	
0000100 3	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010	
0000100 4	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010	
0000100 5	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010	
0000100 6	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010	
0000100 7	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010	
0000100 8	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010	
0000100 9	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010	
0000100 10	STRUCTURES DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010	
0000200 1	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010	
0000200 2	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010	
0000200 3	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010	
0000200 4	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010	
0000200 5	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010	
0000200 6	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010	
0000200 7	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010	
0000200 8	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010	
0000200 9	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010	
0000200 10	ROADWAY DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010	
0000300 1	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010	
0000300 2	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010	
0000300 3	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010	
0000300 4	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010	

0000300 5	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010
0000300 6	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010
0000300 7	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010
0000300 8	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010
0000300 9	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010
0000300 10	SIGNING AND PAVEMENT MARKING DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010
0000400 1	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010
0000400 2	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010
0000400 3	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010
0000400 4	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010
0000400 5	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010
0000400 6	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010
0000400 7	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010
0000400 8	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010
0000400 9	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010
0000400 10	LIGHTING MARKING DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010
0000500 1	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010
0000500 2	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010
0000500 3	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010
0000500 4	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010
0000500 5	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010
0000500 6	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010
0000500 7	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010
0000500 8	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010
0000500 9	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010

0000500 10	SIGNALIZATION DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010
0000600 1	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010
0000600 2	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010
0000600 3	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010
0000600 4	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010
0000600 5	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010
0000600 6	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010
0000600 7	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010
0000600 8	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010
0000600 9	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010
0000600 10	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010
0000600 11	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 11	ZZ	G	1/1/2010
0000600 12	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 12	ZZ	G	1/1/2010
0000600 13	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 13	ZZ	G	1/1/2010
0000600 14	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 14	ZZ	G	1/1/2010
0000600 15	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 15	ZZ	G	1/1/2010
0000600 16	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 16	ZZ	G	1/1/2010
0000600 17	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 17	ZZ	G	1/1/2010
0000600 18	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 18	ZZ	G	1/1/2010
0000600 19	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 19	ZZ	G	1/1/2010
0000600 20	LANDSCAPE DESIGN GROUP- GENERIC PAY ITEM 20	ZZ	G	1/1/2010
0000700 1	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 1	ZZ	G	1/1/2010
0000700 2	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 2	ZZ	G	1/1/2010
0000700 3	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 3	ZZ	G	1/1/2010
0000700 4	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 4	ZZ	G	1/1/2010

0000700 5	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 5	ZZ	G	1/1/2010
0000700 6	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 6	ZZ	G	1/1/2010
0000700 7	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 7	ZZ	G	1/1/2010
0000700 8	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 8	ZZ	G	1/1/2010
0000700 9	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 9	ZZ	G	1/1/2010
0000700 10	UTILITIES DESIGN GROUP- GENERIC PAY ITEM 10	ZZ	G	1/1/2010

1000- AA- **UTILITY WORK**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

This pay item for Utility JPA projects Only. Tech Specs are required for all work to be completed.

Coordinate the use of this item with District Utilities Office. This is a LS project pay item; do NOT use separate pay items along with the LS item for any given JPA. Payment covers all work and materials for the entire utility project number. (Note: The Roadway project(s) may be either LS or standard pay items. Each utility project number may be either LS or standard pay items.)

Additional guidance: As with roadway projects, Utility LS projects should only be considered when the work to be completed (including known quantities) is clearly defined in the plans. LS projects should not be considered for unknown conditions.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS: LS Tabulation of Quantities

COMP 700-050-05: Lump Sum Quantities

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1000- AA-** **UTILITY WORK** **LS/LS**

AA =
5 (Sewer)
6 (Water)
7 (Power)
8 (Communications)
9 (Fuel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1000 5	UTILITY WORK- JPA ONLY, SEWER	LS	T	5/1/2008	2/29/2012
1000 6	UTILITY WORK- JPA ONLY, WATER	LS	T	5/1/2008	2/29/2012
1000 7	UTILITY WORK- JPA ONLY, POWER	LS	T	1/1/2009	2/29/2012
1000 8	UTILITY WORK- JPA ONLY, COMMUNICATIONS	LS	T	4/1/2009	6/30/2009

1050- 1A-BCD UTILITY PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **B=9 (Special) valid through 6-30-09; select item for material needs**

Details This pay item for Utility JPA projects Only

For new pipe, payment includes anchors & incidentals, as well as connections to existing systems; detail all work in the plans or specifications. HISTORICAL PRICES vary considerably based on location, depth, installation length, specification requirements (sanitizing, leak detection) and other factors. Consult the maintaining agency for guidance on unit prices.

For pipe up to 7.9" diameter, payment includes all fittings.
Material requirements and pressure ratings must be included in the specifications.

For Casings, payment includes vents/air release valves.

For Plug/Place out of service, Specs/Details should indicate that payment includes all work & materials necessary. Plans should indicate length of pipe to be filled (payment length). For pipe up to 4", caps may be used, as allowed by the utility; this is an "each" item, valid only for A=8 (plug/place out of service). Caps must be detailed in the contract documents.

Tech Specs are required for all items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1050- 1A-BCD** **UTILITY PIPE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove & Dispose) BC=00, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BC=00, Note: DOT/maintaining agency retains ownership
8 (Plug & Place out of Service) BC=00 Note: Utility Retains Ownership
9 (Temporary Pipe)

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special) valid through 6-30-09; material type needed

C= Application
1 (Casing/Conduit)
2 (Water/Sewer)
3 (Gas)
4 (Fuel Transmission)

D= Size or Equivalent Diameter
Sizes up to 7.9" includes the cost of all fittings
0 (cap for pipe up to 4") EA, valid only for A=8
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1050 11124	UTILITY PIPE, F&I, CONCRETE, WATER / SEWER, 8 -19.9"	LF	T	1/1/2007	
1050 11125	UTILITY PIPE, F&I, CONCRETE, WATER / SEWER, 20 -49.9"	LF	T	1/1/2007	
1050 11211	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 0-1.9"	LF	T	1/1/2007	
1050 11212	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 2-4.9"	LF	T	1/1/2007	
1050 11213	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 5.0-7.9"	LF	T	1/1/2007	
1050 11214	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 8-19.9"	LF	T	1/1/2007	
1050 11215	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 20.0-49.9"	LF	T	1/1/2007	
1050 11221	UTILITY PIPE, F&I, PVC, WATER / SEWER, 0 - 1.9"	LF	T	1/1/2007	

1050 11222	UTILITY PIPE, F&I, PVC, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007
1050 11223	UTILITY PIPE, F&I, PVC, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007
1050 11224	UTILITY PIPE, F&I, PVC, WATER / SEWER, 8 - 19.9"	LF	T	1/1/2007
1050 11225	UTILITY PIPE, F&I, PVC, WATER / SEWER, 20 - 40.9"	LF	T	1/1/2007
1050 11312	UTILITY PIPE, F&I, PE, CASING/CONDUIT, 2.0 - 4.9"	LF	T	1/1/2007
1050 11313	UTILITY PIPE, F&I, PE, CASING/CONDUIT, 5.0 - 7.9"	LF	T	1/1/2007
1050 11321	UTILITY PIPE, F&I, PE, WATER / SEWER, 0 - 1.9"	LF	T	1/1/2007
1050 11322	UTILITY PIPE, F&I, PE, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007
1050 11323	UTILITY PIPE, F&I, PE, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007
1050 11324	UTILITY PIPE, F&I, PE, WATER / SEWER, 8 - 19.9"	LF	T	1/1/2007
1050 11325	UTILITY PIPE, F&I, PE, WATER / SEWER, 20 - 49.9"	LF	T	1/1/2007
1050 11414	UTILITY PIPE, F&I, DI/CI, CASING/CONDUIT, 8 - 19.9"	LF	T	1/1/2007
1050 11415	UTILITY PIPE, F&I, DI/CI, CASING/CONDUIT, 20 - 49.9"	LF	T	1/1/2007
1050 11422	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007
1050 11423	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007
1050 11424	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 8 - 19.9"	LF	T	1/1/2007
1050 11425	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 20 - 49.9"	LF	T	1/1/2007
1050 11432	UTILITY PIPE, F&I, DI / CI, GAS, 2-4.9"	LF	T	1/1/2007
1050 11433	UTILITY PIPE, F&I, DI / CI, GAS, 5-7.9"	LF	T	1/1/2007
1050 11434	UTILITY PIPE, F&I, DI / CI, GAS, 8-19.9"	LF	T	1/1/2007
1050 11512	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 2.0-4.9"	LF	T	1/1/2007
1050 11513	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 5-7.9"	LF	T	1/1/2007
1050 11514	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 8.0-19.9"	LF	T	1/1/2007
1050 11515	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0-49.9"	LF	T	1/1/2007
1050 11921	UTILITY PIPE, F&I, SPECIAL, WATER / SEWER, 0-1.9"	LF	T	1/1/2007
1050 11922	UTILITY PIPE, F&I, SPECIAL, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007

1050 11924	UTILITY PIPE, F&I, SPECIAL MATERIAL, WATER / SEWER, 8 -19.9"	LF	T	1/1/2007	
1050 11925	UTILITY PIPE, F&I, SPECIAL MATERIAL, WATER / SEWER, 20-49.9"	LF	T	1/1/2007	
1050 11931	UTILITY PIPE, F&I, SPECIAL, GAS, 0-1.9"	LF	T	1/1/2007	
1050 13002	UTILITY PIPE, INSTALL, 2-4.9"	LF	T	1/1/2007	
1050 13004	UTILITY PIPE, INSTALL, 8-19.9"	LF	T	1/1/2007	
1050 14004	UTILITY PIPE, RELOCATE, 8-19.9"	LF	T	1/1/2007	
1050 15002	UTILITY PIPE, ADJUST/MODIFY, 2 - 4.9"	LF	T	1/1/2007	
1050 15003	UTILITY PIPE, ADJUST/MODIFY, 5 - 7.9"	LF	T	1/1/2007	
1050 15004	UTILITY PIPE, ADJUST/MODIFY, 8 - 19.9"	LF	T	1/1/2007	
1050 16	UTILITY PIPE, REMOVE & DISPOSE	LF	T	1/1/2007	
1050 16001	UTILITY PIPE,REMOVE & DISPOSE, 0 - 1.9"	LF	T	1/1/2007	
1050 16002	UTILITY PIPE,REMOVE & DISPOSE, 2-4.9"	LF	T	1/1/2007	
1050 16003	UTILITY PIPE,REMOVE & DISPOSE, 5-7.9"	LF	T	1/1/2007	
1050 16004	UTILITY PIPE,REMOVE & DISPOSE, 8-19.9"	LF	T	1/1/2007	
1050 16005	UTILITY PIPE,REMOVE & DISPOSE & DISPOSE, 20-49.9"	LF	T	1/1/2007	
1050 16006	UTILITY PIPE,REMOVE & DISPOSE & DISPOSE, 50" OR LARGER	LF	T	1/1/2007	
1050 17004	UTILITY PIPE,REMOVE & STOCKPILE/SALVAGE, 8-19.9"	LF	T	1/1/2007	
1050 17005	UTILITY PIPE,REMOVE & STOCKPILE/SALVAGE, 20-49.9"	LF	T	1/1/2007	
1050 18000	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE	LF	T	1/1/2007	
1050 18001	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 0- 1.9"	LF	T	1/1/2007	
1050 18002	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 2- 4.9"	LF	T	1/1/2007	
1050 18003	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 5- 7.9"	LF	T	1/1/2007	
1050 18004	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 8-19.9"	LF	T	1/1/2007	
1050 18005	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 20-49.9"	LF	T	1/1/2007	
1050 19222	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER ,2-4.9"	LF	T	7/1/2007	
1050 19223	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER ,5-7.9"	LF	T	7/1/2007	
1050 19224	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER, 8-19.9"	LF	T	7/1/2007	
1050 19321	UTILITY PIPE, TEMPORARY, PE, WATER/SEWER ,0-1.9"	LF	T	7/1/2007	
1050 19922	UTILITY PIPE, TEMPORARY, SPECIAL MATERIALS, WATER/SEWER ,2-4.9"	LF	T	7/1/2007	12/31/2009
1050 19924	UTILITY PIPE, TEMPORARY, SPECIAL MATERIALS, WATER/SEWER, 8-19.9"	LF	T	7/1/2007	12/31/2009

1055- 1A-BCD	UTILITY FITTINGS		
	Unit EA	**Accuracy** Each	**PlanQuantity?** no
Notes	**B=9 (Special) valid through 6-30-09; select item for material needs**		
Details	This pay item for Utility JPA projects Only For pipe up to 7.9" diameter, payment includes all fittings. Material requirements and pressure ratings to be included in the specifications. Tech Specs are required for all items. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet	
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Details and/or Technical Specifications required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1055- 1A-BCD** **UTILITY FITTINGS** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Relocate) BCD=blank
5 (Adjust /Modify) BCD=blank
6 (Remove & Dispose) BCD=blank, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD=blank, Note: DOT/maintaining agency retains ownership
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special) valid through 6-30-09; material type needed

C= Fitting Type
1 (Elbow)
2 (Tee)
3 (Reducer)
4 (Union)
5 (Cap/Plug)
6 (Y)
7 (Cleanout)
9 (Special)*

D= Size or Equivalent Diameter
Sizes up to 7.9" includes the cost of all fittings
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1055 11214	UTILITY FITTINGS, F&I, PVC, ELBOW, 8.0-19.9"	EA	T	1/1/2007	
1055 11215	UTILITY FITTINGS, F&I, PVC, ELBOW, 20.0-49.9"	EA	T	1/1/2007	
1055 11224	UTILITY FITTINGS, F&I, PVC, TEE, 8.0-19.9"	EA	T	1/1/2007	
1055 11234	UTILITY FITTINGS, F&I, PVC, REDUCER, 8.0-19.9"	EA	T	1/1/2007	
1055 11244	UTILITY FITTINGS, F&I, PVC, UNION, 8.0-19.9"	EA	T	1/1/2007	
1055 11254	UTILITY FITTINGS, F&I, PVC, CAP/PLUG, 8 - 19.9"	EA	T	1/1/2007	
1055 11264	UTILITY FITTINGS, F&I, PVC, Y FITTING, 8 - 19.9"	EA	T	1/1/2007	
1055 11273	UTILITY FITTINGS, F&I, PVC, CLEANOUT,	EA	T	1/1/2007	
1055 11274	UTILITY FITTINGS, F&I, PVC, CLEANOUT, 8 - 19.9"	EA	T	1/1/2007	
1055 11275	UTILITY FITTINGS, F&I, PVC, CLEANOUT, 20 - 49.9"	EA	T	1/1/2007	
1055 11294	UTILITY FITTINGS, F&I, PVC, SPECIAL FITTING, 8 - 19.9"	EA	T	1/1/2007	6/30/2009
1055 11295	UTILITY FITTINGS, F&I, PVC, SPECIAL, 20 - 49.9"	EA	T	7/1/2006	
1055 11394	UTILITY FITTINGS, F&I, PE, SPECIAL FITTING, 8 - 19.9"	EA	T	1/1/2007	8/31/2009
1055 11414	UTILITY FITTINGS, F&I, DI/CI, ELBOW, 8 - 19.9"	EA	T	1/1/2007	
1055 11415	UTILITY FITTINGS, F&I, DI/CI, ELBOW, 20 - 49.9"	EA	T	1/1/2007	
1055 11424	UTILITY FITTINGS, F&I, DI/CI, TEE, 8 - 19.9"	EA	T	1/1/2007	
1055 11425	UTILITY FITTINGS, F&I, DI/CI, TEE, 20 - 49.9"	EA	T	1/1/2007	
1055 11434	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 8 - 19.9"	EA	T	1/1/2007	

1055 11435	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 20 - 49.9"	EA	T	1/1/2007	
1055 11444	UTILITY FITTINGS, F&I, DI/CI, UNION, 8 - 19.9"	EA	T	1/1/2007	
1055 11445	UTILITY FITTINGS, F&I, DI/CI, UNION, 20 - 49.9"	EA	T	1/1/2007	
1055 11452	UTILITY FITTINGS, F&I, DI/CI, CAP/PLUG	EA	T	1/1/2007	
1055 11453	UTILITY FITTINGS, F&I, DI/CI, CAP/PLUG	EA	T	1/1/2007	
1055 11454	UTILITY FITTINGS, F&I, DI/CI, CAP/PLUG, 8 - 19.9"	EA	T	1/1/2007	
1055 11455	UTILITY FITTINGS, F&I, DI/CI, CAP / PLUG, 20 - 49.9"	EA	T	1/1/2007	
1055 11464	UTILITY FITTINGS, F&I, DI/CI, Y, 8 -19.9"	EA	T	1/1/2007	
1055 11465	UTILITY FITTINGS, F&I, DI/CI, Y, 20 - 49.9"	EA	T	1/1/2007	
1055 11494	UTILITY FITTINGS, F&I, DI/CI, SPECIAL, 8.0-19.9"	EA	T	1/1/2007	
1055 11495	UTILITY FITTINGS, F&I, DI/CI, SPECIAL, 20.0-49.9"	EA	T	1/1/2007	
1055 11514	UTILITY FITTINGS, F&I, STEEL, ELBOW, 8.0-19.9"	EA	T	1/1/2007	
1055 11555	UTILITY FITTINGS, F&I, STEEL, CAP / PLUG, 20 - 49.9"	EA	T	1/1/2007	
1055 11914	UTILITY FITTINGS, F&I, SPECIAL, ELBOW, 8.0-19.9"	EA	T	1/1/2007	6/30/2009
1055 11944	UTILITY FITTINGS, F&I, SPECIAL, UNION, 8.0-19.9"	EA	T	1/1/2007	6/30/2009
1055 11954	UTILITY FITTINGS, F&I, SPECIAL,CAP/PLUG, 8.0-19.9"	EA	T	1/1/2007	6/30/2009
1055 11964	UTILITY FITTINGS, F&I, SPECIAL,Y, 8.0-19.9"	EA	T	1/1/2007	6/30/2009
1055 11994	UTILITY FITTINGS, F&I, SPECIAL MATERIAL, SPECIAL FITTING, 8.0-19.9"	EA	T	1/1/2007	6/30/2009
1055 11995	UTILITY FITTINGS, F&I, SPECIAL MATERIAL, SPECIAL FITTING, 20-49.9"	EA	T	1/1/2007	
1055 13	UTILITY FITTINGS, INSTALL	EA	T	1/1/2007	
1055 15	UTILITY FITTINGS, ADJUST & MODIFY	EA	T	1/1/2007	
1055 16	UTILITY FITTINGS, REMOVE & DISPOSAL	EA	T	1/1/2007	

1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
DO NOT USE for Milling adjustments; see 425 items for adjusting manholes & utility valves For Utility Structures BELOW ground.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant: Tabulation of Quantities Sheet
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Details and/or Technical Specifications required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1060- 1A-BCD** **UTILITY STRUCTURE- BELOW GROUND** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank See detail information for milling adjustments
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership

B=Utility
1 (Electrical /Communications)
2 (Water/Sewer)
3 (Other)*

C= Volume
1 (0-80 FT3)
2 (>80 FT3)

D=Depth
1 (0-6')
2 (6.1-12')
3 (>12')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1060 11211	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 0 - 6'	EA	T	1/1/2007	
1060 11212	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 6.1 - 12'	EA	T	1/1/2007	
1060 11213	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, >12'	EA	T	1/1/2007	
1060 11221	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, 0 - 6'	EA	T	1/1/2007	

1060 11222	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, 6.1 - 12'	EA	T	1/1/2007
1060 11223	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, > 12'	EA	T	1/1/2007
1060 13	UTILITY STRUCTURE, BELOW GROUND, INSTALL	EA	T	1/1/2007
1060 15	UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	EA	T	1/1/2007
1060 16	UTILITY STRUCTURE, BELOW GROUND, REMOVE&DISPOSE CONTRACTOR TAKES OWNERSHIP	EA	T	1/1/2007
1060 17	UTILITY STRUCTURE, BELOW GROUND, REMOVE/STOCKPILE/ SALVAGE, DOT/OTHER AGENCY RETAINS OWNERSHIP	EA	T	1/1/2007
1060 19222	UTILITY STRUCTURE, BELOW GROUND, REHAB, WATER/SEWER > 80 FT3, 6.1-12' DEEP	EA	T	1/1/2007
1060 21 20	UTILITY STRUCTURE- ABOVE GROUND, 1.1-3 CY PAD, WITHOUT COVER	EA	T	1/1/2007
1060 25	UTILITY STRUCTURE, ABOVE GROUND, ADJUST & MODIFY	EA	T	1/1/2007

1060- 2A- BC UTILITY STRUCTURE- ABOVE GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
For Utility Structures ABOVE ground.
Calculate pad volume as the length x width x depth of concrete. Covers are for non-electrical applications, aesthetic or weather enclosures. Material requirements to be included in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1060- 2A- BC** **UTILITY STRUCTURE- ABOVE GROUND** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership

B=Pad Volume
1 (0-1 YD3)
2 (1.1-3 YD3)
3 (>3 YD3)

C=Cover
0 (without cover)
1 (with cover)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

1080- 1A-BCC **UTILITY FIXTURES**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
Additional fixtures to be added as needed. Submit Request through District Estimates Office.
Tabulate all items in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1080- 1A-BCC** **UTILITY FIXTURES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) BCC= blank
5 (Adjust /Modify) BCC= blank
6 (Remove & Dispose) Note: Contractor takes ownership, BCC= blank
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership, BCC= blank
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B= Size or Equivalent Diameter
1 (0 - 1.9")*
2 (2.0 - 4.9")*
3 (5.0 - 7.9")*
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*NOTE: Fittings for pipe sizes up to 8" are included in the cost of the pipe. Fixtures, any size, may be paid under this item.

CC= Fixture
1 (Valve/Meter Box)
2 (Backflow Assembly)
3 (Tapping Saddle/Sleeve)
4 (Valve Assembly)
5 (Blowoff Assembly)
6 (VAC/AIR Assembly)
7 (Line Stop Assembly)
8 (Mechanical Joint Separator)
9 (Mechanical Joint Restraint)
10… submit request to expand structure
Note: CC list to be expanded as needed.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1080 11101	UTILITY FIXTURES, F&I, 0 - 1.9", VALVE/METER BOX	EA	T	1/1/2007	
1080 11102	UTILITY FIXTURES, F&I, 0 - 1.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007	
1080 11103	UTILITY FIXTURES, F&I, 0 - 1.9", TAPPING SADDLE / SLEEVE	EA	T	1/1/2007	
1080 11104	UTILITY FIXTURES, F&I, 0 - 1.9", VALVE ASSEMBLY	EA	T	1/1/2007	
1080 11105	UTILITY FIXTURES, F&I, 0-1.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007	
1080 11106	UTILITY FIXTURES, F&I, 0 - 1.9", VAC / AIR ASSEMBLY	EA	T	1/1/2007	

1080 11107	UTILITY FIXTURES, F&I, 0 - 1.9", LINE STOP ASSEMBLY	EA	T	1/1/2007
1080 11201	UTILITY FIXTURES, F&I, 2-4.9", VALVE/METER BOX	EA	T	1/1/2007
1080 11202	UTILITY FIXTURES, F&I, 2 - 4.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007
1080 11203	UTILITY FIXTURES, F&I, 2-4.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007
1080 11204	UTILITY FIXTURES, F&I, 2-4.9", VALVE ASSEMBLY	EA	T	1/1/2007
1080 11205	UTILITY FIXTURES, F&I, 2-4.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007
1080 11206	UTILITY FIXTURES, F&I, 2-4.9", VAC/AIR ASSEMBLY	EA	T	1/1/2007
1080 11207	UTILITY FIXTURES, F&I, 2-4.9", LINE STOP ASSEMBLY	EA	T	1/1/2007
1080 11209	UTILITY FIXTURES, F&I, 2-4.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007
1080 11301	UTILITY FIXTURES, F&I, 5.0 - 7.9", VALVE/METER BOX	EA	T	1/1/2007
1080 11302	UTILITY FIXTURES, F&I, 5.0 - 7.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007
1080 11303	UTILITY FIXTURES, F&I, 5.0 - 7.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007
1080 11304	UTILITY FIXTURES, F&I, 5.0 - 7.9", VALVE ASSEMBLY	EA	T	1/1/2007
1080 11305	UTILITY FIXTURES, F&I, 5.0 - 7.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007
1080 11306	UTILITY FIXTURES, F&I, 5.0 - 7.9", VAC/AIR ASSEMBLEY	EA	T	1/1/2007
1080 11307	UTILITY FIXTURES, F&I, 5-7.9", LINE STOP ASSEMBLY	EA	T	1/1/2007
1080 11309	UTILITY FIXTURES, F&I, 5-7.9", MECHANICAL JOINT RESTRAINT	EA		1/1/2007
1080 11401	UTILITY FIXTURES, F&I, 8.0 - 19.9", VALVE METER BOX	EA	T	1/1/2007
1080 11402	UTILITY FIXTURES, F&I, 8.0 - 19.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007
1080 11403	UTILITY FIXTURES, F&I, 8.0-19.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007
1080 11404	UTILITY FIXTURES, F&I, 8.0-19.9", VALVE ASSEMBLY	EA	T	1/1/2007
1080 11405	UTILITY FIXTURES, F&I, 8.0-19.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007
1080 11406	UTILITY FIXTURES, F&I, 8.0-19.9", VAC/AIR ASSEMBLY	EA	T	1/1/2007
1080 11407	UTILITY FIXTURES, F&I, 8-19.9", LINE STOP ASSEMBLY	EA	T	1/1/2007
1080 11408	UTILITY FIXTURES, F&I, 8-19.9", MJS ADAPTER	EA	T	1/1/2007

1080 11409	UTILITY FIXTURES, F&I, 8-19.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	
1080 11501	UTILITY FIXTURES, F&I, 20-49.9", VALVE/METER BOX	EA	T	1/1/2007	
1080 11502	UTILITY FIXTURES, F&I, 20-49.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007	
1080 11503	UTILITY FIXTURES, F&I, 20-49.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007	
1080 11504	UTILITY FIXTURES, F&I, 20-49.9", VALVE ASSEMBLY	EA	T	1/1/2007	
1080 11507	UTILITY FIXTURES, F&I, 20-49.9", LINE STOP ASSEMBLY	EA	T	1/1/2007	
1080 11509	UTILITY FIXTURES, F&I, 20-49.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	
1080 13101	UTILITY FIXTURES, INSTALL, 0 - 1.9", VALVE/METER BOX	EA	T	1/1/2007	
1080 13201	UTILITY FIXTURES, INSTALL, 2 -4.9", VALVE/METER BOX	EA	T	1/1/2007	12/31/2009
1080 13204	UTILITY FIXTURES, INSTALL, 2 -4.9", VALVE ASSEMBLY	EA	T	1/1/2007	12/31/2009
1080 13209	UTILITY FIXTURES, INSTALL, 2 -4.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	12/31/2009
1080 13304	UTILITY FIXTURES, INSTALL, 5 -7.9", VALVE ASSEMBLY	EA	T	1/1/2007	12/31/2009
1080 13305	UTILITY FIXTURES, INSTALL, 5 -7.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007	12/31/2009
1080 13309	UTILITY FIXTURES, INSTALL, 5 -7.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	12/31/2009
1080 13404	UTILITY FIXTURES, INSTALL, 8 -19.9", VALVE ASSEMBLY	EA	T	1/1/2007	12/31/2009
1080 13409	UTILITY FIXTURES, INSTALL, 8 -19.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	12/31/2009
1080 13509	UTILITY FIXTURES, INSTALL, 20 -49.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	12/31/2009
1080 14	UTILITY FIXTURES, RELOCATE	EA	T	1/1/2007	
1080 15	UTILITY FIXTURES, ADJUST & MODIFY	EA	T	1/1/2007	
1080 15101	UTILITY FIXTURES, ADJUST & MODIFY, 0 - 1.9", VALVE/ METER BOX	EA	T	1/1/2007	
1080 15404	UTILITY FIXTURES, ADJUST & MODIFY, 8 - 19.9", VALVE ASSEMBLY	EA	T	1/1/2007	
1080 16	UTILITY FIXTURES, REMOVE & DISPOSE	EA	T	1/1/2007	
1080 16401	UTILITY FIXTURES, REMOVE & DISPOSE,8 - 19.9", VALVE / METER BOX	EA	T	1/1/2007	
1080 17	UTILITY FIXTURES, REMOVE, STOCKPILE / SALVAGE	EA	T	1/1/2007	
1080 19408	UTILITY FIXTURES, SPECIAL, 8-19.9", MJS ADAPTER	EA	T	1/1/2007	

1135- A UTILITY- GUYS AND ANCHORS- ABOVE GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only- NEW installations only.
Protection of existing structures during construction is incidental to the work being performed.
For ABOVE GROUND installations only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status **Inactive Structure**

Struct. **1135- A** **UTILITY- GUYS AND ANCHORS- ABOVE GROUND** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Salvage & Store/Reuse)
5 (Adjust & Modify Or Relocate)
9 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

1501- 1- UTILITY LIFT STATION, SANITARY SEWER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
Includes pump(s), power, internal piping, housing, and incidentals associated with the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1501- 1-** **UTILITY LIFT STATION, SANITARY SEWER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1501 1	LIFT STATION, SANITARY SEWER	EA	T	1/1/2007	

1644-ABC-DEE FIRE HYDRANT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only
Items to be used for Water Main & Service Applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1644-ABC-DEE** **FIRE HYDRANT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC = 00, DEE = Blank
4 (Salvage & Store) BC = 00, DEE = Blank
5 (Salvage & Reuse) BC = 00, DEE = Blank
6 (Plug & Placed Out Of Service) BC = 00, DEE = Blank
7 (Adjust & Modify) BC = 00, DEE = Blank
8 (Relocate) BC = 00, DEE = Blank
9 (Remove) BC = 00, DEE = Blank

B = Type Of Hydrant
1 (Standard)
2 (Airport)
3 (Traffic)

C = Number Of Ways
1 (Hose)
2 (Two Hose)
3 (Two Hose, One Pumper)
4 (2 Way, Flush Type, One Hose, One Pumper)
5 (4 Way, Three Hose, One Pumper)
6 (3 Way, Two Hose, One Pumper)

D = (Open Leave Blank)

EE = Size
05 (2")
08 (6")
09 (8")

Notes Note: Do Not Code Leading Zeros.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1644113 05	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 2"	EA	T	1/1/2007	
1644113 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007	
1644114 08	FIRE HYDRANT, STANDARD, F&I, 2 WAY,FLUSH TYPE, 1 HOSE, 1 PUMPER,6"	EA	T	1/1/2007	
1644116 08	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMPER, 6"	EA	T	1/1/2007	
1644116 09	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMPER, 8"	EA	T	1/1/2007	
1644133 08	FIRE HYDRANT, F&I, TRAFFIC, 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007	

1644136 08	FIRE HYDRANT, F&I, TRAFFIC, 3 WAY - 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007
1644300	FIRE HYDRANT, INSTALL	EA	T	1/1/2007
1644400	FIRE HYDRANT, SALVAGE & STORE	EA	T	1/1/2007
1644700	FIRE HYDRANT, ADJUST & MODIFY	EA	T	1/1/2007
1644800	FIRE HYDRANT, RELOCATE	EA	T	1/1/2007
1644900	FIRE HYDRANT, REMOVE	EA	T	1/1/2007

1720-ABB- UTILITY WORK- TRANSFORMER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
Plans or Technical Specifications must detail item, materials, construction/installation requirements, as well as compensation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms

Design SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1720-ABB-** **UTILITY WORK- TRANSFORMER** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BB=00
8 (Relocate) BB=00
9 (Remove) BB=00

BB = Configurations
01 (25 kVA Continuous Single Phase)
02 (75 kVA Continuous Single Phase)
03 (250 kVA Continuous Single Phase)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1720103	TRANSFORMER, F&I, 250 KVA CONTINUOUS SINGLE PHASE	EA	T	1/1/2007	

1820- 1- AB UTILITY CABLE, TELEPHONE/COMMUNICATIONS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0700 Utilities

Status

Struct. **1820- 1- AB** **UTILITY CABLE, TELEPHONE/COMMUNICATIONS** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)*
4 (Relocate)*
5 (Adjust /Modify)*
6 (Remove & Dispose)* Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership
8 (Place out of Service)*
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0

B= # of pairs
1 (up to 10 pair)
2 (11-50 pair)
3 (50-100 pair)

4 (greater than 100 pair)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1820 1 50	UTILITY CABLE, TELEPHONE/COMMUNICATIONS, ADJUST & MODIFY	LF	T	1/1/2007	
1820 1 60	UTILITY CABLE, TELEPHONE/COMMUNICATIONS, REMOVE AND DISPOSE, CONTRACTOR TAKES OWNERSHIP	LF	T	1/1/2007	

1820- 2- AB UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant: Tabulation of Quantities Sheet

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1820- 2- AB** **UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
1820 2 60	UTILITY FIBER OPTIC,TELEPHONE COMMUNICATIONS, REMOVE & DISPOSE, CONTRACTOR TAKES OWNERSHIP	LF	T	1/1/2007	