

50- A-	DESIGN / BUILD		
	Unit	LS/LS	Accuracy Lump Sum
			PlanQuantity? no
Notes			
Details	<p>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.</p> <p>When multi-category work is called for, use the pay item structure that represents the largest percentage of the total dollars."</p> <p>Estimators: Verify that contract type is CDB (Construction Design Build). When entering the pay item, 0 50- A-, use "zero, space, fifty, space, space, operation number", to correctly align pay item digits.</p> <p>Forms and Documentation: Follow Design-Build Guidelines.</p>		
Related Items	Required	999- 25 (2999- 25)	Recommended
Design Forms and Documentation	<p>See Details Above</p> <p>Locate in the plans. Summarize quantities by location in the computation book.</p>		
Construction Forms and Documentation	<p>No additional form required; use plans summary or comp book</p>		
References	<p>PPM Chapter</p> <p>Trns-port</p> <p>Other</p> <p>Standards</p> <p>Specifications</p> <p style="text-align: center;">T: Plan Details and/or Technical Specifications required</p> <p>Prep & Doc Manual Chapter(s) 11</p>		
TRNS*PORT Category (DRAFT FIELD):			
	0200	Roadway	

Struct.	50- A-	DESIGN / BUILD	LS/LS
	<p>A= Operation</p> <p>1 (Resurfacing)</p> <p>2 (Roadway Construction)</p> <p>4 (Bridge Construction)</p> <p>5 (Buildings/Toll Facilities/Rest Areas/Service Plaza)</p> <p>6 (Traffic Operations)</p> <p>7 (Rail)</p>		

Notes

The following items were open, 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**

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards
Specifications Section 101
Prep & Doc Manual Chapter(s) 7, 13

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

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?** no

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

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities
 Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
 Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

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.

Temporary Detour Bridge: When a temporary detour bridge is used, refer to index 21600 and instructions. The designer should include the following information in the plans: contact information, location (maintenance yard) of bridge components, and pick-up/delivery instructions.

Related Items	Required	Recommended
Design Forms and Documentation	sumqrd: Roadway Summary of Quantities Sheet	
	Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter	
	Trns-port	
	Other	
	Standards	Index No. 21600 Series- Temporary Detour Bridge
	Specifications Section 102	
	Prep & Doc Manual Chapter(s) 7, 13	

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

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, unless otherwise directed by the District Construction Office.

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

Design Forms and Documentation

COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Other
Standards** Index No. 600
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

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

Details from specification:

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:

- 1 (through Dec 2011) traffic control in a signalized intersection when signals are not in use,
- 1* (effective January 2012) Directing traffic/overriding the signal in a signalized intersection.
- 2 when standard index no. 619 is used on Interstate roadway at nighttime and called for in the plans,
- 3 when standard index 655 Traffic Pacing for overhead work is called for in the plans or approved by the Engineer, or
- 4 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. Pay Item note/plan details are recommended to identify work in accordance with specification. DO NOT USE this pay item for "slowing traffic" or "as needed" law enforcement. For Speed and Law Enforcement officers, see pay item 999-102

***ESTIMATING GUIDANCE:**

For signalized intersections being resurfaced, use 4 hours per each approach lane (through and turn) per lift. Do not count bike lanes or shoulders. The estimate includes the number of TCO hours needed for the operation of milling, sweeping, tacking, paving, installing temporary and permanent pavement markings, and installing loops/other vehicle detection devices.

For pacing operations, the number of officers varies by location/project conditions. Contact the District Construction Office for estimating guidance based on project conditions.

NOTE: This guidance does not include TCO hours at a signalized intersection for other types of work such as reconstruction, traffic signal components (other than loops), or for other situations specified under FDOT specification 102-7. Include additional hours for these activities.

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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.

Type K Barriers, refer to Instructions for Design Standards, Index No. 411

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

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 411, 412, 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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) Index 412
- 4 (Type K) see details above

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, LF 1/1/2010
TYPE K

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

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Trns-port

Other

Standards Index No. 400

Specifications [Section 102](#)

Prep & Doc Manual Chapter(s) 7, 13

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

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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Index No. 600 Specifications Section 102 Prep & Doc Manual Chapter(s) 7, 13	

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

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- ARROW BOARD / 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.

NOTE: Refer to specifications for acceptable types. Type B or C boards may be used for 0-50 mph; only Type C boards are acceptable for greater than 50 mph facilities.

Related Items	Required	Recommended

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

Struct. 102- 76- **ARROW BOARD / 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	ARROW BOARD / 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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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**

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards Index No. 411, 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s)

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

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- 89- A TEMPORARY CRASH CUSHION

	Unit	LO	Accuracy	Location	PlanQuantity?	no
Notes	Effective January 2012: Special Provision may apply with new pay item A=17. Refer to Estimates Bulletin 11-10.					
Details	<p>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.</p> <p>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.</p> <p>Through December 2011: All temporary crash cushions use A=7 Redirective Option.</p> <p>Effective January 2012: Refer to Estimates Bulletin 11-10 and Mandatory Specification change. Special Provision SP1021312 and pay item 102-89-17 will be used "on projects with less than 50 crash cushions and one of the following work types: Add Lanes and Reconstruction, Add Lanes and Rehab pavement, Interchanges and new road construction."</p> <p>Formerly known as "Impact Attenuators"</p>					
Related Items	Required		Recommended			
Design Forms and Documentation	<p>COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation</p> <p>Locate in the plans. Summarize quantities by location in the computation book.</p>					
Construction Forms and Documentation	<p>No additional form required; use plans summary or comp book</p> <p>Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).</p>					
References	<p>PPM Chapter</p> <p>Trns-port</p> <p>Other</p> <p>Standards See detail; Index No. 415, 430</p> <p>Specifications Section 102</p> <p>Prep & Doc Manual Chapter(s) 7, 13</p>					
TRNS*PORT Category (DRAFT FIELD): 0200 Roadway						
Struct.	102- 89- A	TEMPORARY CRASH CUSHION			LO	
	<p>A = Type</p> <p>7 (Redirective Option)</p> <p>17 (Redirective Option, less than 50) see details above</p>					

Notes

The following items were open, 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	
0102 89 17	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION, LESS THAN 50 AND WORK TYPES	LO		1/1/2012	

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**

Design Forms and Documentation

COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s)

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

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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Vol 1, Ch 10 Trns-port Other Standards Index No. 600 Specifications Section 102 Prep & Doc Manual Chapter(s) 7, 13	

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

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	ED		1/1/2010	

102-104- TEMPORARY SIGNALIZATION AND MAINTENANCE OF INTERSECTION

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

Notes **Effective with January 2012 letting & specification changes. Replaces 102-104-A**

Details For existing intersections, the quantity to be paid for will be the number of signalized intersections (per each, per day) for the full duration of the Contract. For temporary intersections, the quantity to be paid for will be the number of signalized intersections per day for the duration of the temporary intersection. No separate payment will be made for temporary signalization and maintenance at new intersections.

For estimating purposes, the number of days for a temporary intersection will be based on the duration of the applicable Maintenance of Traffic (MOT) phase(s). For payment purposes, the actual number of days will be used.

Estimated Quantity = (# of existing intersections x estimated total contract days) + (# of temporary intersections x estimated # of days for temporary intersection)

Payment Quantity = (# of existing intersections x actual contract days) + (# of temporary intersections x actual # of days for temporary intersection)

NOTE: This pay item should be used on all projects with milling and resurfacing, and signalized intersections. For projects without milling and resurfacing, the designer or project manager should coordinate with the local agency to determine whether the contractor will be required to maintain the signalization equipment within the project limits. Per the specification, this pay item covers shifting signal heads, trouble calls, and maintaining intersection and coordination timing.

For most projects, use this pay item with 102-107-1 Temporary Detection and Maintenance

Traffic Control with portable signals used around a work area (signal lane closure, two-lane two way, work with in the travelway): When a pair of portable signals is used together to control traffic around a work area, the pair of signals should be considered one intersection. Refer to index 606 and/or detail in plans.

Related Items	Required	Recommended
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Index No. 606 Specifications Section 102 Prep & Doc Manual Chapter(s) 7, 13	

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

Struct. 102-104- TEMPORARY SIGNALIZATION AND MAINTENANCE OF INTERSECTION 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
0102104	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED		1/1/2012	

102-104- A TEMPORARY TRAFFIC CONTROL SIGNAL
Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes **Valid through 12-31-2011**

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

Related Items	Required	Recommended
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Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 606
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

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.

102-107- TEMPORARY TRAFFIC DETECTION, INTERSECTION

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

Notes **Valid through 12-31-2011; replaced by 102-107-1.**

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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications [Section 102](#)

Prep & Doc Manual Chapter(s)

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

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.

102-107- 1 TEMPORARY TRAFFIC DETECTION AND MAINTENANCE OF INTERSECTION

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

Notes **Effective with January 2012 letting & specification changes. Replaces 102-107-**

Details

For existing intersections, the quantity to be paid for will be the number of signalized intersections (per each, per day) beginning the day contract time begins and ending the day the permanent detection is operational and in the final lane configuration. For temporary and new intersections, the quantity to be paid for will be number of signalized intersections per day beginning the day the temporary detection is functional and ending the day the permanent detection is operational and in the final lane configuration for a new intersection or when the detection is removed for a temporary intersection.

For estimating purposes, the number of days for a temporary intersection will be based on the duration of the applicable Maintenance of Traffic (MOT) phase(s). For payment purposes, the actual number of days will be used.

Estimated Quantity = (# of existing intersections x estimated total contract days) + (# of temporary and new intersections x estimated days for temporary intersection)

Payment Quantity = (# of existing intersections x actual # of contract days until permanent detection is "operational and in the final lane configuration") + (# of temporary and new intersections x actual # of days for temporary detection)

NOTE: This pay item should be used on all projects with milling and resurfacing, and signalized intersections. For projects without milling and resurfacing, the designer or project manager should coordinate with the local agency to determine whether the contractor will be required to maintain the signalization equipment within the project limits. Per the specification, the work included under this pay item includes maintenance of detection for existing intersections.

For most projects, use this pay item with 102-104 Temporary Signalization and Maintenance.

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Trns-port

**Other
Standards
Specifications Section 102
Prep & Doc Manual Chapter(s)**

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

Struct. 102-107- 1 TEMPORARY TRAFFIC DETECTION AND MAINTENANCE OF INTERSECTION 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
0102107 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED		1/1/2012	

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

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other Standards Index No. 670
Specifications Section 102
Prep & Doc Manual Chapter(s) 6, 7, 13

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

Struct. 102-150- 1 PORTABLE REGULATORY SIGN ED

Notes

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 600
Specifications [Section 102](#)
Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications [Section 103](#)
M: Monitored Item
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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 7	TEMPORARY WORK STRUCTURE, PROJECT NUMBER 218946-1-52-01	LS	M	1/1/2010	12/31/2013

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
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Specifications Section 104 Prep & Doc Manual Chapter(s) 6, 7, 13	

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

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- 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)

Design Forms and Documentation sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port

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

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-)

Design Forms and Documentation sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
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

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.

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.

DO NOT include pay item notes for "based on replacement every xx months"; payment includes maintenance of the product in the specified locations, until permanent erosion control features are in place.

DO NOT USE this pay item for curb inlets or ditch bottom inlet protection; see pay item 104-18.

Related Items	Required	Recommended
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
References	PPM Chapter Trns-port Other Standards Specifications Section 104 Prep & Doc Manual Chapter(s)	

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

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
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port 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

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
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port 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

**Struct. 104- 12- A STAKED TURBIDITY BARRIER- NYLON REINFORCED LF
PVC**

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- 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**

Design Forms and Documentation

sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards Index No. 106
(see Index modifications for July 2010; Index 106 is deleted)
Specifications Section 104
Prep & Doc Manual Chapter(s)

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

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- 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

Design Forms and Documentation

sumqem: EMO Summary of Quantities Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter

Trns-port

Other

Standards

Specifications [Section 104](#)

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

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

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?** no

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. Ditch Bottom inlet protection systems ("caps", barriers, and other materials, as shown in the manual) are also included in this pay item.

Related Items	Required	Recommended
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Specifications Section 104 Prep & Doc Manual Chapter(s)	

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

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?** no

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
Design Forms and Documentation	sumqem: EMO Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
References	PPM Chapter Trns-port	

**Other
Standards
Specifications Section 104
Prep & Doc Manual Chapter(s)**

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

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? no

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**

Design Forms and Documentation sumqem: EMO Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book

References **PPM Chapter
Trns-port
Other
Standards
Specifications Section 104
Prep & Doc Manual Chapter(s)**

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

Struct. 104- 20- CHEMICAL TREATMENT- FLOC LOGS, ALUM DRUMS EA

(For Erosion Control)

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. Use the total area of existing and proposed turf or vegetation to be mowed within the project limits. It is not necessary to adjust for inlets, drains, slopes, small variations in tree lines, etc.

Estimate one litter removal and mowing cycle per 30 days, or at 15 day increments (e.g. 30 days, 45 days, or 60 days), 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. NOTE: 30 days is the minimum number of days, unless otherwise recommended by District policy.

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.

*PQ 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). While this is a final calculation determination of pay area, per 9-1.3, the dimensions should be determined from the plans, rather than field measured, per the 107 spec.

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.

Urban Areas without mowing: Do not include litter removal pay item without

Mowing/Litter removing contracts separate from construction contracts: When there is an overlap of responsibilities between a construction contract and a maintenance contract, refer to Topic 850-000-005, "Maintenance Responsibilities on Construction Projects". Do not include duplicate mowing/litter removal pay items on the construction contract. Mowing

& litter removal operations will be coordinated through the Resident Engineer and the District Maintenance Engineer.

TRANSPORT: For projects with federal funds, this item will appear a "non-participating". For projects without federal funds, no funding flag is needed.

Related Items	Required	Recommended
Design Forms and Documentation	SBLitterMowing: Summary of Litter Removal and Mowing Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter PPM Vol 2, 7.4 Trns-port This item will default to "non-participating" on projects with Federal Funds. Other Standards Specifications Section 107 Prep & Doc Manual Chapter(s)	

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

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
Notes	Unit AC; HA Accuracy 1/10 Acre; 1/10 Hectare PlanQuantity? no* Effective July 2010, with new 107 Specification. Refer to Estimates/Roadway Design Bulletin and Updated PPM for additional information.
Details	<p>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.</p> <p>Estimate one litter removal and mowing cycle, at 15 day increments (e.g. 30 days, 45 days, or 60 days), 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.</p> <p>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.</p> <p>Payment will be based on the area calculated by the Engineer, per litter removal or mowing cycle.</p>

*PQ 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). While this is a final calculation determination of pay area, per 9-1.3, the dimensions should be determined from the plans, rather than field measured, per the 107 spec.

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.

Mowing/Litter removing contracts separate from construction contracts: When there is an overlap of responsibilities between a construction contract and a maintenance contract, refer to Topic 850-000-005, "Maintenance Responsibilities on Construction Projects". Do not include duplicate mowing/litter removal pay items on the construction contract. Mowing & litter removal operations will be coordinated through the Resident Engineer and the District Maintenance Engineer.

TRANSPORT: For projects with federal funds, this item will appear a "non-participating". For projects without federal funds, no funding flag is needed.

Related Items	Required	Recommended
Design Forms and Documentation	SBLitterMowing: Summary of Litter Removal and Mowing Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter PPM Vol 2, 7.4 Trns-port This item will default to "non-participating" on projects with Federal Funds. Other Standards Specifications Section 107 Prep & Doc Manual Chapter(s)	

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

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 **Effective January 2012 letting- note change in number of days before contract time begins.**

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.

Through December 2011 letting, per the specifications, "Provide a Field Office for Department use beginning 10 calendar days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. "

Effective January 2012 letting, per the specifications, "Provide a Field Office for Department use beginning 30 calendar days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. "

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

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
 Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
 Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 802
Specifications [Section 109](#)
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities

Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

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

References

PPM Chapter

Trns-port

Other

Standards

Specifications Section 110

Prep & Doc Manual Chapter(s) 7, 13

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

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	

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
Design Forms and Documentation	COMP 700-050-05: Lump Sum Quantities	
	Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter	
	Trns-port	
	Other	
	Standards	
	Specifications Section 110	
	Prep & Doc Manual Chapter(s) 6, 13	

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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 removal of 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
Design Forms and Documentation	COMP 700-050-01: Area Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.	
References	PPM Chapter Trns-port Other Standards Specifications Section 110 Prep & Doc Manual Chapter(s) 7, 13	

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

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, detail work and materials in the contract documents. Tabulate the approximate volume of material to be included in the payment for plugging each well.

Related Items	Required	Recommended
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Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications Section 110
Prep & Doc Manual Chapter(s) 7, 13

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

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, detail work and materials in the contract documents. Tabulate the approximate volume of material to be included in the payment for plugging each well.

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

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port

Other Standards Specifications Section 110
Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation SBMailBox: Summary of Mail Boxes
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other Standards Index No. 532
Specifications Section 110
Prep & Doc Manual Chapter(s) 7, 13

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

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

Design Forms and Documentation

See Details Above
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

Struct. 110- 8- A **UNDERWATER DEBRIS REMOVAL** **Mixed**

A = Method of Measurement
blank (Day) DA
1 (Weight) TN
2 (Length) 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 8	UNDERWATER DEBRIS REMOVAL	DA	T	1/1/2010	
0110 8 1	UNDERWATER DEBRIS REMOVAL	TN	T	1/1/2010	
0110 8 2	UNDERWATER DEBRIS REMOVAL	LF	T	7/1/2010	

110- 12- A HYDRODEMOLITION

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

Meter

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

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

Struct. 110- 71- 1 **BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- LF**
REHAB 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
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**

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port

**Other
Standards
Specifications**

D: 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

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	D	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

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

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

References

**PPM Chapter
Trns-port
Other
Standards
Specifications**

T: 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

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**

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

Struct.	110- 84-	TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT	LS/LS
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Notes

The following items were open, 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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	

Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.	
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References	PPM Chapter Trns-port Other Standards Specifications
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T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

Struct.	110- 85-	CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN	EA
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Notes

The following items were open, 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 details should include contact information and delivery location of salvageable material. (This may be accomplished with a pay item 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.

Trnsport Funding: This pay item should remain "participating", unless items of work are specifically identified by Federal Highway to be "non-participating". If used for construction operations, the item will remain "participating".

Related Items	Required	Recommended
Design Forms and Documentation	sumqrd: Roadway Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Trns-port
Other Standards Specifications [Section 110](#)
T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 7, 13

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

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)

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 3
Trns-port
Other Standards Index No. 285, 500, 505
Specifications [Section 120](#)
Prep & Doc Manual Chapter(s) 6, 13

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

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)

Design Forms and Documentation

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation

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

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter Vol 1, Chapter 3
Trns-port
Other
Standards Index No. 500, 505
Specifications [Section 120](#)
Prep & Doc Manual Chapter(s) 6, 8, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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**

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 3
Trns-port
Other
Standards Index No. 281, 500
Specifications [Section 120](#)
Prep & Doc Manual Chapter(s) 9, 13

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

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

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

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter Vol 1, Chapter 3
Trns-port
Other
Standards
Specifications Section 120
Prep & Doc Manual Chapter(s) 7, 13

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

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
Design Forms and Documentation	SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation	
	Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.	

Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	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
	Trns-port
	Other
	Standards Specifications

D: Plan Details and/or Technical Specifications required

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

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

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	D	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
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Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3
Trns-port
Other Standards Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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**

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 3
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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**

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 307
Specifications Section 121

Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation

SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications [Section 125](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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**

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
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**
Trns-port
Other
Standards
Specifications [Section 125](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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
Design Forms and Documentation	See Details Above	
	Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	

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

Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation 700-050-54: Daily Report or Truck-Measured Material Site Source Record (and Sketch)

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

D: Plan Details and/or Technical Specifications required

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

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

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	D	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 Larry Jones, 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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards

Specifications

T: Plan Details and/or Technical Specifications required

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

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

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 Larry Jones, 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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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 Larry Jones, 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 _____
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.
References	PPM Chapter Trns-port Other Standards Specifications T: Plan Details and/or Technical Specifications required Prep & Doc Manual Chapter(s) 7, 13

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

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.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0144 72	TUBING FOR PIEZOMETER	LF	T	1/1/2010	

144- 74- A PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT	
Unit	EA
Accuracy	Each
PlanQuantity?	no
Notes	Coordinate the use of this item with Larry Jones, 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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	

Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.
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References
PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

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

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. See also the Instructions for Design Standards and Index No. 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
Design Forms and Documentation	COMP 700-050-01: Area Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter Trns-port Other Standards Index No. 501 Specifications Section 145 T: Plan Details and/or Technical Specifications required Prep & Doc Manual Chapter(s) 6, 7, 13	

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

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	Accuracy	PlanQuantity?
SY; M2	Square Yard; Square Meter	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. See also the Instructions for Design Standards and Index No. 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
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Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 501
Specifications [Section 145](#)

T: Plan Details and/or Technical Specifications required

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

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

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 Larry Jones, State Geotechnical Engineer.**

Details Geosynthetic Reinforced Roadway Base for Construction Expedient, as shown on Index 501. Full material technical specifications are required. See the Instructions for Design Standards and Index No. 501.

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 501
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 501
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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	

145- 72- CELLULAR CONFINEMENT FOR SOIL STABILIZATION

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

Notes **Coordinate the use of this item with Larry Jones, State Geotechnical Engineer.**

Details

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

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

Struct. 145- 72- CELLULAR CONFINEMENT 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.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0145 72	CELLULAR CONFINEMENT 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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other Standards Index No. 506
Specifications Section 160
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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	

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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? yes

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 105

Blanket Material: Index No. 505

Specifications Section 162

P: Selected items to be used by Permit only

Prep & Doc Manual Chapter(s)

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

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	

165- 70- SUBGRADE, LIME TREATED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details

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

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
 Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
 Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
 Trns-port
 Other
 Standards
 Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 13

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

Struct. 165- 70- SUBGRADE, LIME TREATED 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
0165 70	SUBGRADE LIME TREATED	SY	T	1/1/2010	

165- 71- HYDRATED LIME

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes

Details

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

Design Forms and Documentation COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 13

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

Struct. 165- 71- HYDRATED LIME 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
0165 71	HYDRATED LIME	TN	T	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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation	
	Locate in the plans. Summarize quantities by location in the computation book.	

Construction Forms and Documentation	No additional form required; use plans summary or comp book
	Record final quantity on the computation book form.

References
PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation	
	Locate in the plans. Summarize quantities by location in the computation book.	

Construction Forms and Documentation	No additional form required; use plans summary or comp book
	Record final quantity on the computation book form.

References
PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

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

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-

Design Forms and Documentation sumqrd: Roadway Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

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

Struct. 173- 78- A 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.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0173 78 1	SOIL IMPROVEMENT BY VIBRO-COMPACTION, UP TO 125 HP VIBRATOR	LF	T	7/1/2010	
0173 78 2	SOIL IMPROVEMENT BY VIBRO-COMPACTION, 126-205 HP VIBRATOR	LF	T	7/1/2010	
0173 78 3	SOIL IMPROVEMENT BY VIBRO-COMPACTION, OVER 206 HP VIBRATOR	LF	T	7/1/2010	

173- 79- A SOIL STABILIZATION BY AUGERED CONCRETE COLUMNS

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

Notes

Details

This item is to be used for strengthening of organics and soft soils, and the reduction of settlements of superimposed embankments by placing dry concrete mix to desired depth via continuous flight auger or SCV technique. NOT TO BE USED for auger-cast piles.

For assistance with this item, contact the State Geotech Engineer in the State Structures Design Office.

Technical Special Provisions are required to detail the materials, construction method, and/or acceptance criteria.

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

Design Forms and Documentation

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other Standards
Specifications [Section 173](#)

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 6, 13

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

Struct. 173- 79- A SOIL STABILIZATION BY AUGERED CONCRETE COLUMNS LF

A= Diameter
1 (6" to 8")

Notes

The following items were open, 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 79 1	SOIL STABILIZATION BY AUGERED CONCRETE COLUMNS, 6"-8" DIAMETER	LF	T	1/1/2012	

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other Standards
Specifications [Section 175](#)
Prep & Doc Manual Chapter(s) 6, 13

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

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
<hr/>		
Design Forms and Documentation	COMP 700-050-01: Area Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
<hr/>		
Construction Forms and Documentation	No additional form required; use plans summary or comp book Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
<hr/>		
References	PPM Chapter Trns-port Other Standards Specifications Section 210, 285 Prep & Doc Manual Chapter(s) 6, 7, 13	

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

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
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Design Forms and Documentation SBEarthwork: Summary of Earthwork, or COMP 700-050-04: Volume Measure Items and Continuation
Locate in plans. Summarize quantities by location on summary sheet in the plans, or detail calculations in the computation book.

Construction Forms and Documentation 700-050-54: Daily Report or Truck-Measured Material Site Source Record (and Sketch)
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**
Trns-port
Other
Standards
Specifications [Section 210, 285](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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.

Construction Forms & Text: A Contractor's Certification of Quantities will be required when Asphalt Base is used. The pay quantity will be adjusted per the specifications.

Related Items

Required

Recommended

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation See details above
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 514
Specifications Section 285
Prep & Doc Manual Chapter(s) 6, 9, 13

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

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
Design Forms and Documentation	SBTurnouts: Summary of Turnouts	
	Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter	
	Trns-port	
	Other Standards	Index No. 516
	Specifications	Section 286
	Prep & Doc Manual Chapter(s)	6, 9, 13

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

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
Design Forms and Documentation	SBTurnouts: Summary of Turnouts	
	Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record	
	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter	
	Trns-port	
	Other Standards	Index No. 516

Specifications Section 286

Prep & Doc Manual Chapter(s) 6, 9, 13

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

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**

Design Forms and Documentation sumqrd: Roadway Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation 700-050-54: Daily Report or Truck-Measured Material Site Source Record (and Sketch)
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 287
Specifications Section 287
Prep & Doc Manual Chapter(s) 6, 9, 13

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

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
Design Forms and Documentation	sumqrd: Roadway Summary of Quantities Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter Trns-port Other Standards Index No. 287 Specifications Section 288 Prep & Doc Manual Chapter(s) 13	

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

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
Design Forms and Documentation	COMP 700-050-01: Area Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.	
References	PPM Chapter Trns-port	

**Other
Standards
Specifications**

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

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

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	

324- 1- REWORKED ASPHALT CONCRETE

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

Notes

Specification under development; refer to pay item 905-324-A.

Details

VERIFY DETAILS OF CURRENT SPECIFICATION.

Includes milling, recycling in place, placement asphalt, and warranty bond.

Quantity will be measured in place, with contractor certified quantities.

Related Items

Required **Recommended**

Design Forms and Documentation

sumqrd: Roadway Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications

D: Specification under development

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

*TRNS*PORT Category (DRAFT FIELD):*

Struct. 324- 1- REWORKED ASPHALT CONCRETE SY

Notes

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

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)

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards
Specifications [Section 327](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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)
- 26 (4 3/4" Avg. Depth)
- 27 (5 3/4" Avg. Depth)
- 28 (6 3/4" Avg. Depth)
- 29 (6 1/4" 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 EXISTING ASPHALT PAVEMENT, 4 1/4" AVG DEPTH	SY		1/1/2010	
0327 70 23	MILLING EXIST ASPH PAVT, 6" AVG DEPTH	SY		1/1/2010	

- 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)

PROPOSED/PENDING: coordinate with State Materials Office; specs under development.

- 31 (Traffic Level A, PG 82-22)
- 32 (Traffic Level B, PG 82-22)
- 33 (Traffic Level C, PG 82-22)
- 34 (Traffic Level D, PG 82-22)
- 35 (Traffic Level E, PG 82-22)

- 41 (Traffic Level A, PG 67-22)
- 42 (Traffic Level B, PG 67-22)
- 43 (Traffic Level C, PG 67-22)
- 44 (Traffic Level D, PG 67-22)
- 45 (Traffic Level E, PG 67-22)

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	
0334 1 34	SUPERPAVE ASPH CONC, TRAF D, PG82-22	TN	D	1/1/2011	
0334 1 42	SUPERPAVE ASPH CONC, TRAFFIC LEVEL B, PG67-22	TN		1/1/2010	
0334 1 43	SUPERPAVE ASPH CONC, TRAFFIC LEVEL C, PG67-22	TN		1/1/2010	

337- 7- AA ASPHALT CONCRETE FRICTION COURSE

Unit TN; MT **Accuracy** 1/10 Ton; 1/10 Metric Ton **PlanQuantity?** no

Notes **Selected pay items work with developmental specifications (see structure below); coordinate with the Specifications Office and/or the monitor. Monitor: Greg Sholar**

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 1 1/2 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 1 1/2 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
Design Forms and Documentation	COMP 700-050-06: Weight Measure or Liquid Volume Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	700-050-66: Contractor's Certification of Quantities- Asphalt & Bituminous Materials Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Specifications Section 337 Prep & Doc Manual Chapter(s) 11, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 337- 7- AA ASPHALT CONCRETE FRICTION COURSE TN

AA = Type
5 (FC-5, Rubber)
22 (FC-5, PG 76-22)

29 (Traffic B, FC 4.75, Rubber) coordinate with State Materials Office; specs under development
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)

39 (Traffic B, FC 4.75, PG 76-22)*coordinate with State Materials Office; specs under development
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)

Developmental Specifications required for the following items:
50 (Traffic B, FC 4.75, PG 82-22)
51 (Traffic B, FC-9.5, PG 82-22)
52 (Traffic B, FC-12.5, PG 82-22)
53 (Traffic C, FC 4.75, PG 82-22)
54 (Traffic C, FC-9.5, PG 82-22)
55 (Traffic C, FC-12.5, PG 82-22)

- 56 (Traffic D, FC 4.75, PG 82-22)
- 57 (Traffic D, FC-9.5, PG 82-22)
- 58 (Traffic D, FC-12.5, PG 82-22)

- 60 (Traffic B, FC 4.75, PG 67-22)
- 61 (Traffic B, FC-9.5, PG 67-22)
- 62 (Traffic B, FC-12.5, PG 67-22)
- 63 (Traffic C, FC 4.75, PG 67-22)
- 64 (Traffic C, FC-9.5, PG 67-22)
- 65 (Traffic C, FC-12.5, PG 67-22)
- 66 (Traffic D, FC 4.75, PG 67-22)
- 67 (Traffic D, FC-9.5, PG 67-22)
- 68 (Traffic D, FC-12.5, PG 67-22)

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	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG76-22	TN		1/1/2010	
0337 7 29	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-4.75, RUBBER	TN	D	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 39	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-4.75, PG 76-22	TN	D	7/1/2010	
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	
0337 7 51	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, PG 82-22	TN	D	7/1/2011	
0337 7 53	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-4.75, PG 82-22	TN	D	7/1/2011	
0337 7 55	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 82-22	TN	D	7/1/2011	

0337 7 58	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, PG 82-22	TN	D	1/1/2011
0337 7 60	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-4.75, PG 67-22	TN		1/1/2012
0337 7 63	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-4.75, PG 67-22	TN		1/1/2012
0337 7 66	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-4.75, PG 67-22	TN		1/1/2012

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

Design Forms and Documentation

SBAshphaltMisc: Miscellaneous Asphalt
Locate in plans. Summarize quantities by location on summary sheet in the plans.
NOTE: When included on guardrail summary, do not duplicate quantities on Misc Asphalt Summary.

Construction Forms and Documentation

700-050-66: Contractor's Certification of Quantities- Asphalt & Bituminous Materials
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
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

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation 700-050-66: Contractor's Certification of Quantities- Asphalt & Bituminous Materials
Contractor's Certification of Quantities must be submitted. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other Standards
Specifications [Section 341](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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.

Through June 2011: Payment for grinding new concrete pavement is included with new concrete.
Effective July 2011: Pay for grinding separately, under Section 352 for all new concrete pavement.

Related Items **Required** 352- 70- **Recommended**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 305, 560
Specifications [Section 350](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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 (9 1/2" Avg.)
- 21 (Var. 11" Avg.) after 6-30-12, use AA=12
- 22 (Var. 11 1/2" Avg.) after 6-30-12, use AA=13
- 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	PLAIN CEMENT CONCRETE PAVEMENT, 7 1/2"	SY		1/1/2010	
0350 1 9	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 7 1/2" 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, 9 1/2" AVERAGE	SY	1/1/2010	
0350 1 21	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 11" AVERAGE	SY	1/1/2010	6/30/2012
0350 1 22	PLAIN CEMENT CONCRETE PAVEMENT, VAR 11 1/2" AVG	SY	1/1/2010	6/30/2012
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.

Through June 2011: Payment for grinding new concrete pavement is included with new concrete.
Effective July 2011: Pay for grinding separately, under Section 352 for all new concrete pavement.

Related Items

Required 352- 70- **Recommended**

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards Index No. 305, 560
Specifications Section 350

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

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

Struct. 350- 2- AA **CEMENT CONCRETE PAVEMENT, REINFORCED** **SY**

AA = thickness
1 (6")
3 (8")
4 (9")
10 (12")
12 (11")
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 12	CEMENT CONC PAVT REINFORCED,11"	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**

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 305
Specifications Section 350
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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: REHAB	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**

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other Standards
Specifications [Section 350](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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- REHAB	LF		1/1/2010	

352- 70- GRINDING CONCRETE PAVEMENT

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

Notes

Details

Through June 2011: This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.

Effective July 2011: This item will be used for grinding (1) existing concrete pavement shown in the plans, (2) new concrete pavement- the full width of the travel lanes, (3) shoulders, when shown in the plans to promote drainage. (Separate payment for grinding will be made for all concrete pavement- new and existing concrete.)

DO NOT Use on bridge structures; refer to Section 400 items for grinding deck slabs.

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port
Other Standards
Specifications [Section 352](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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

Design Forms and Documentation

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 305, 308
Specifications [Section 353](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

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

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

To be used in accordance with Index 306. 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.

Pay quantity of expansion joint is to be calculated across pavement at right angles to the centerline of the roadway pavement. Shoulder pavement joint is included in the total length.

For Bridge Deck Expansion Joints (on the bridge, rather than concrete pavement), use pay item 458-1-AB.

NOTE: This is a roadway pay item.

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

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port

Other Standards Index No. 306
Specifications Sections 350, 370, 932
Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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.

CULVERTS: Refer to Design Standards for correct class of concrete and other payment details. For index 289, 291 and 292, class 1 is valid through 12/2011.

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-June 2011) 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.

JUNCTION SLAB FOR GRAVITY WALLS: (Effective July 2011) Payment for Junction Slab on Gravity Wall (Index 6011) will be included in payment for 521-8 Concrete Traffic Railing Barrier with Junction Slab. Do not include junction slab quantities with CY gravity wall quantities.

STEPS: Per Index 521, Payment for reinforcing steel shall be made under 415-1-13 misc

steel.

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.

Seal Concrete, 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
Design Forms and Documentation	COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.	415- 1- A

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References **PPM Chapter**
Trns-port
Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.
Normally requires SHOP DRAWINGS
Standards See pay item structure for applicable Index numbers.
Specifications Sections 346, 400
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Struct. 400- -ALL **Class NS, I, II, III, IV, V, VI Details** **CY**

- AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV **Class 1 valid through 12/2011**
2 (Endwalls) Class I, II, IV, excluding Index 260 & 261 U-endwalls
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV
6 (Counterweight) Class IV
8 (Bulkhead) Class II, III, IV: Index 6040*
10 (Approach Slabs) Class II
11 (Retaining Walls) CIP Retaining walls; DO NOT use this item for walls covered by 548 specifications
Class NS: Gravity Wall Index 520/6011*
Class II, III, IV: 5000 series/6010*
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS, Index 521
15 (Miscellaneous) **Valid through June 2009 letting**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class IV, VI
25 (Mass- Substructure) Class I, II, IV
39 (Precast Segmental Superstructure) Class IV, 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
45 (Precast Substructure) Class III
104 (Superstructure Light-Weight) Class IV
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

*Index numbers show both old (through June 2011)/ new (effective July 2011) references.

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

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References **PPM Chapter**
Trns-port
Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 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

Struct. 400- 0-AAA **CLASS NS CONCRETE** **CY**

AAA = Class 0 Applications
11 (Gravity Wall) Index 520/6011*
13 (Concrete Steps) Index 521

Notes

The following items were open, 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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References	<p>PPM Chapter Trns-port</p> <p>Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7. Normally requires SHOP DRAWINGS</p> <p>Standards Refer to 400- -ALL for details on all classes of concrete</p> <p>Specifications Sections 346, 400</p> <p>Prep & Doc Manual Chapter(s) 6, 7, 13</p>
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TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Struct. 400- 1-AAA CLASS I CONCRETE CY

AAA = Class I Applications
1 (Culverts) valid through 12/2011, per index change to 289, 291, 292
2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls

Notes

The following items were open, 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	3/30/2012
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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References	<p>PPM Chapter Trns-port</p> <p>Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.</p> <p>Standards Refer to 400- -ALL for details on all classes of concrete</p> <p>Specifications Sections 346, 400</p> <p>Prep & Doc Manual Chapter(s)</p>
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TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Struct. 400- 2-AAA CLASS II CONCRETE CY

- AAA = Class II Applications
 1 (Culverts)
 2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls
 4 (Superstructure)
 5 (Substructure)
 10 (Approach Slabs)
 11 (Retaining Walls) CIP retaining walls. 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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book see detail

References **PPM Chapter**
Trns-port
Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 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

Struct. 400- 3-AAA CLASS III CONCRETE CY

AAA = Class III Applications
11 (Retaining Walls) CIP retaining walls. NOTE: DO NOT use this item for walls covered by 548 specifications.
20 (Seal) Class III
45 (Precast Substructure)

Notes

The following items were open, 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	
0400 3 45	CONCRETE CLASS III, PRECAST SUBSTRUCTURE	CY		1/1/2012	

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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book see detail

References **PPM Chapter**
Trns-port

Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 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

Struct. 400- 4-AAA CLASS IV CONCRETE CY

AAA = Class IV Applications

- 1 (Culverts)
- 2 (Endwalls) Note: Does not include Index 260 or 261 U-endwalls
- 4 (Superstructure)
- 5 (Substructure)
- 6 (Counterweight)
- 8 (Bulkhead)
- 11 (Retaining Walls) CIP retaining walls. NOTE: DO NOT use this item for walls covered by 548 specifications.
- 22 (Superstructure Closure Joint)
- 25 (Mass- Substructure)
- 39 (Precast Segmental Superstructure)
- 40 (Precast Segmental Substructure)

- 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 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		
Design Forms and Documentation					
COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation					
Locate in the plans. Summarize quantities by location in the computation book.					
Construction Forms and Documentation					
No additional form required; use plans summary or comp book					
Record final quantity on the computation book form.					

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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References **PPM Chapter**
Trns-port

Other Mass Concrete SDG 3.9, Class and Admixtures SDG 1.4.3, Cofferdams and Seals SDG 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications [Section 400](#)

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

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 CY 1/1/2010
SUBSTRUCTURE MASS

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

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other SDG 4.2
Standards
Specifications Section 400
Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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- 10- PRECAST PANEL (ARCHITECTURAL)

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

Notes

Details

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other Normally requires SHOP DRAWINGS
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Struct. 400- 10- **PRECAST PANEL (ARCHITECTURAL)** **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 10	PRECAST PANEL- ARCHITECTURAL	SF		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

Design Forms and Documentation COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
see detail

References **PPM Chapter**
Trns-port
Other
Standards Refer to 400- -ALL for details on all classes of concrete
Specifications Section 400
T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

M: Monitored item

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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
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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

Design Forms and Documentation

COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other SDG 6.4
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Struct.	400- 32-	CONCRETE FOR JOINT REPAIR	CY
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Notes

The following items were open, 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- 40-	GROUT FOR FULL DEPTH PRECAST DECK	Unit CY; M3	Accuracy Cubic Yard; Cubic Meter	PlanQuantity?
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Notes

Developmental Item: Contact State Structures Office prio to use.

Details

Monitor: Gevin McDaniel

DRAFT DETAIL: This item is intended ONLY for use with Full Depth Precast Decks. Note that trasverse joints are included with the payment for Full Depth Precast Decks, per SY.

**Other
Standards
Specifications
Prep & Doc Manual Chapter(s)**

*TRNS*PORT Category (DRAFT FIELD):*

Struct. 400- 41-ABB FULL DEPTH PRECAST DECK SY

A= Type
1 (Pretensioned)
2 (Precast)
B= Nominal Thickness: Open in .5" increments only
80 (8.0")
85 (8.5")
90 (9.0)

Notes

The following items were open, 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 41180	FULL DEPTH PRECAST DECK, PRETENSIONED, 8"	SY	T	1/1/2012	
0400 41185	FULL DEPTH PRECAST DECK, PRETENSIONED, 8.5"	SY	T	1/1/2012	
0400 41190	FULL DEPTH PRECAST DECK, PRETENSIONED, 9.0"	SY	T	1/1/2012	
0400 41280	FULL DEPTH PRECAST DECK, NON-PRESTRESSED, 8"	SY	T	1/1/2012	
0400 41285	FULL DEPTH PRECAST DECK, NON-PRESTRESSED, 8.5"	SY	T	1/1/2012	
0400 41290	FULL DEPTH PRECAST DECK, NON-PRESTRESSED, 9.0"	SY	T	1/1/2012	

400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

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

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 **Recommended**
items.

Design Forms and Documentation COMP 700-050-05: Lump Sum Quantities
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Trns-port

Other

SDG 3.12.9 and Figure 3-13.
Normally requires SHOP DRAWINGS

Standards

Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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
Design Forms and Documentation	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	PPM Chapter Trns-port Other Standards Specifications T: Plan Details and/or Technical Specifications required Prep & Doc Manual Chapter(s) 7, 13	

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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
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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	Recommended
Design Forms and Documentation	400- 3- 20 COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.	

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other SDG 3.7.
Standards
Specifications
T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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, in accordance with Design Standard.

A Pay Item note is recommended to indicate that payment is based on the length of the keyway, for the work shown on the Design Standard. Payment for materials and labor includes grout, backer rod (when needed), and incidental materials.

On rehabilitation projects, include pay item notes to address payment of the various work items involved. A Tech Spec may be required to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

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

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port
Other
Standards Index No. 20350
Specifications
Prep & Doc Manual Chapter(s) 6, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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	T	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.

Add a plan note to indicate the payment surface area, as well as application guidance: "Deck surface area to be covered is ##### SY. The cost of this pay item includes two applications." Similarly, if the coating thickness and/or number of coats varies by manufacturer, the note could be "Deck surface area to be covered is ##### SY. Apply the coating(s) in accordance with the manufacturer's instructions." If additional surface preparation guidance and/or coating application instructions are needed, consider using a tech spec.

Pay area should be the plan area, regardless of the number of applications or thickness 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**

Design Forms and Documentation COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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**

Design Forms and Documentation COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References **PPM Chapter**
Trns-port

Other SDG 6.5
Standards Index No. 20500, 20501
Specifications

T: Plan Details and/or Technical Specifications required

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

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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**

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port

Other Normally requires SHOP DRAWINGS
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Trns-port
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

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); **PlanQuantity?** yes
Lump Sum (Square Meter)

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

Design Forms and Documentation

COMP 700-050-05: Lump Sum Quantities
Use a quantity of 1, but calculations and computation book documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards

Specifications

T: 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

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?** yes

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.

Note: Designers should refer to instructions for Design Standards to verify if this pay item (separate payment) is to be used, or whether payment is included in the prestressed beams they are used with.

Related Items

Required **Recommended**

Design Forms and Documentation

COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other Standards Specifications SDG 6.5, Normally requires SHOP DRAWINGS
Index No. 20500, 20510
[Section 400](#)
Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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	

400-150- CLEANING AND SEALING EXISTING CONCRETE SURFACES

Unit SF; M2 **Accuracy** Square Foot; 1/10 Square Meter **PlanQuantity?** yes

Notes

Details

FOR MAINTENANCE ACTIVITIES ONLY; do not use for new construction.

Intended for the cleaning and sealing/staining/coating of existing concrete surfaces. Specs should detail the materials and application instructions/rates, as needed.

Related Items

Required

Recommended

Design Forms and Documentation

sumqrd: Roadway Summary of Quantities Sheet
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications [Section 400](#)

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Struct. 400-150- **CLEANING AND SEALING EXISTING CONCRETE SURFACES** **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
0400150	CLEANING AND SEALING EXISTING CONCRETE SURFACE	SF	T	1/1/2012	

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
Design Forms and Documentation	COMP 700-050-04: Volume Measure Items and Continuation Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the computation book form.	
References	PPM Chapter Trns-port Other Standards Specifications <p style="text-align: center; color: red;">T: Plan Details and/or Technical Specifications required</p> Prep & Doc Manual Chapter(s) 6, 7, 13	

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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
Design Forms and Documentation	COMP 700-050-04: Volume Measure Items and Continuation Locate in the plans. Summarize quantities by location in the computation book.	

**Construction
Forms and
Documentation**

No additional form required; use plans summary or comp book
Record final quantity on the computation book form.

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

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
Design Forms and Documentation	COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont. Locate in the plans. Summarize quantities by location in the computation book.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter Trns-port Other Standards Specifications	

T: Plan Details and/or Technical Specifications required
Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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
Design Forms and Documentation	sumdrd.dgn: Summary of Drainage Structures Locate in plans. Summarize quantities by location on summary sheet in the plans.	

Construction Forms and Documentation No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Vol 1, Chapter 33
Trns-port
Other Standards
Specifications [Section 407](#)
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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**

Design Forms and Documentation COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book

References **PPM Chapter**
Trns-port
Other Standards

Specifications Section 411

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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		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**

Design Forms and Documentation COMP 700-050-09: Linear Measure Comp with Components and Cont., or COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation No additional form required; use plans summary or comp book

References **PPM Chapter**
Trns-port
Other
Standards
Specifications Section 411
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

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		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**

Design Forms and Documentation COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications [Section 413](#)
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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**

Design Forms and Documentation COMP 700-050-04: Volume Measure Items and Continuation
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation 700-050-56: Daily Log Sheet Miscellaneous Tabulation Form Site Source Record
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port

**Other
 Standards
 Specifications Section 413
 Prep & Doc Manual Chapter(s)**

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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 Meter **PlanQuantity?** no

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**

Design Forms and Documentation

COMP 700-050-01: Area Computation and Continuation

Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book

Record final quantity on the computation book form.

References

**PPM Chapter
 Trns-port
 Other
 Standards
 Specifications Section 413
 Prep & Doc Manual Chapter(s)**

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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).

Misc Reinforcing Steel: Used per Index 289, 291, 2-2

Related Items

Required

Recommended

Design Forms and Documentation

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Trns-port

Other

Standards

ENDWALLS: Index No. 295
MISC: Index No. 280 for guard at pipe end
STEPS: Index No. 521

Specifications Section 415

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

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) valid through 12-31-2010; replaced by A=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
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	

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

Design Forms and Documentation

COMP 700-050-07: Concrete & Reinforcing Steel Comp & Cont.
Locate in the plans. Summarize quantities by location in the computation book.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: 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

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	

425- 1-AAB		INLETS	
Unit	EA	Accuracy	Each
PlanQuantity?	no		
Notes			
Details			
<p>"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.</p> <p>Median Barrier Inlet descriptions, from Index 217: Type 1 Single throat, one side of barrier wall. Type 2 Double throats, one side of barrier wall. Type 3 Two single throats, opposite side of Wall. Type 4 Two double throats, opposite sides of barrier wall. Type 5 Double throats, one side of barrier wall, and single throat other side of barrier wall.</p> <p>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.</p>			
Related Items		Required	Recommended
Design Forms and Documentation		sumdrd.dgn: Summary of Drainage Structures Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation		No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References		<p>PPM Chapter Trns-port Other Standards Index No. 200, 201, 210, 211, 212, 213, 215, 216, 217, 218, 219, 220, 221, 230, 232, 233, 234, 235, 240, 282 Specifications Section 425</p> <p>T: Selected Items may require Plan Details and/or Technical Specifications</p> <p>Prep & Doc Manual Chapter(s) 7, 13</p>	
TRNS*PORT Category (DRAFT FIELD): 0200 Roadway			
Struct.	425- 1-AAB	INLETS	EA
AA = Inlet Type 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 = Inlet depth/height
- 1 ($\leq 10'$)
 - 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 1349	INLETS, CURB, TYPE P-4, MODIFY	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 1469	INLETS, CURB, TYPE J-6, MODIFY	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 1575	INLETS, DITCH BOTTOM, TYPE G, PARTIAL	EA	1/1/2012
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, J BOTTOM <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, J BOT, >10'	EA	1/1/2010
0425 1605	INLETS, DT BOT, TYPE J, PARTIAL	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	D	1/1/2010
0425 1902	INLETS, SPECIAL, >10'	EA	D	1/1/2010
0425 1903	INLETS, SPECIAL, J BOTTOM <10'	EA	D	1/1/2010
0425 1904	INLETS, SPECIAL, J BOTTOM >10'	EA	D	1/1/2010
0425 1905	INLETS, SPECIAL, PARTIAL	EA	D	1/1/2010
0425 1909	INLETS, SPECIAL, MODIFY	EA	D	1/1/2010
0425 1910	INLETS, CLOSED FLUME	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.

Per Index 201, the height used to determine if a drainage structure is greater than 10 feet shall be computed using:

a) the elevation of the top of the manhole lid, b) the grate elevation or the theoretical gutter grade elevation of an inlet, or c) the outside top elevation of a junction box less the flow line elevation of the lowest pipe or to top of sump floor.

Related Items

Required

Recommended

Design Forms and Documentation

sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards Index No. 200, 201
Specifications [Section 425](#)
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

Design Forms and Documentation

sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port

Other

Standards Index No. 200, 201

Specifications Section 425

T: Selected Items may require Plan Details and/or Technical Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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**

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

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**

Design Forms and Documentation sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications Section 425
Prep & Doc Manual Chapter(s) 7, 13

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

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
Design Forms and Documentation	sumdrd.dgn: Summary of Drainage Structures	
	Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter	
	Trns-port	
	Other	
	Standards	
	Specifications Section 425	
	Prep & Doc Manual Chapter(s) 7, 13	

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

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
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Notes

Details For use outside of the R/W. Refer to Design Standard for details.

Related Items	Required	Recommended
Design Forms and Documentation	sumdrd.dgn: Summary of Drainage Structures	
	Locate in plans. Summarize quantities by location on summary sheet in the plans.	
Construction Forms and Documentation	No additional form required; use plans summary or comp book	
	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	PPM Chapter	
	Trns-port	
	Other	
	Standards Index No. 282	
	Specifications Section 425	
	Prep & Doc Manual Chapter(s) 7, 13	

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

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**

Design Forms and Documentation sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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**

Design Forms and Documentation sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

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**

Design Forms and Documentation sumdrd.dgn: Summary of Drainage Structures
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Trns-port
Other
Standards Index No. 200, 201, 280
Specifications

T: Plan Details and/or Technical Specifications required

Prep & Doc Manual Chapter(s) 7, 13

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

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	
Design Forms and Documentation	sumdrd.dgn: Summary of Drainage Structures Locate in plans. Summarize quantities by location on summary sheet in the plans.		
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	PPM Chapter Trns-port Other Standards Specifications Special Provision available Prep & Doc Manual Chapter(s) 6, 7, 13		

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

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
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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	
Design Forms and Documentation	dromrd: Drainage Optional Materials Tabulation Locate in plans. Summarize quantities by location on summary sheet in the plans.		
Construction Forms and Documentation	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	PPM Chapter Trns-port		

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

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

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

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

Design Forms and Documentation

dromrd: Drainage Optional Materials Tabulation
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
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

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
0430173112	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 12", GUTTER DRAIN	LF		7/1/2010	
0430173115	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 15", GUTTER DRAIN	LF		7/1/2010	
0430173118	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 18", GUTTER DRAIN	LF		7/1/2010	
0430173124	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 24", GUTTER DRAIN	LF		7/1/2010	
0430173130	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 30", GUTTER DRAIN	LF		7/1/2010	
0430173136	PIPE CULVERT OPTIONAL MATERIAL, ROUND, 36", GUTTER DRAIN	LF		7/1/2010	

0430173142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42", GUTTER DRAIN	LF	7/1/2010
0430173148	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 48" GUTTER DRAIN	LF	7/1/2010
0430173218	PIPE CULVERT OPTIONAL MATERIAL, OTHER/ELLIPTICAL, 18", GUTTER DRAIN	LF	7/1/2010
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
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
0430174242	PIPE CULVERT, OPTIONAL MATERIAL, ELLIP/OTHER, 42"SD	LF	7/1/2010
0430174248	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 48"SD	LF	7/1/2010
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
0430175140	PIPE CULVERT, OPT MATERIAL, ROUND, 40"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
0430175172	PIPE CULVERT, OPT MATERIAL, ROUND, 72"S/CD	LF	7/1/2010
0430175178	PIPE CULVERT, OPT MATERIAL, ROUND, 78" STORM/CROSS DRAIN	LF	7/1/2010
0430175184	PIPE CULVERT, OPT MATERIAL, ROUND, 84"S/CD	LF	7/1/2010
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
0430175260	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 60"S/CD	LF	1/1/2010
0430175266	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 66"S/CD	LF	1/1/2010
0430175272	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 72"S/CD	LF	1/1/2010
0430175299	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 99" OR >, 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
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Design Forms and Documentation	SBSDMES or SBSDMESFL: Summary of Side Drain & Mitered End Sections	Locate in plans. Summarize quantities by location on summary sheet in the plans.
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Construction Forms and Documentation	No additional form required; use plans summary or comp book	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
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References	<p>PPM Chapter Trns-port Other Standards Index No. 270 Specifications Section 430 Prep & Doc Manual Chapter(s) 7, 13</p>
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*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Struct.	430-200-ABB	FLARED END SECTION	EA
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- 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

Design Forms and Documentation

SBSDMES or SBSDMESFL: Summary of Side Drain & Mitered End Sections
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Trns-port
Other
Standards Index No. 260, 261
Specifications [Section 430](#)
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

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The following items were open, 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	
0430610033	U-ENDWALL, STD 261, 1:6 SLOPE, 30"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

430-82A- 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

Design Forms and Documentation

dromrd: Drainage Optional Materials Tabulation
Locate in plans. Summarize quantities by location on summary sheet in the plans.

Construction Forms and Documentation

No additional form required; use plans summary or comp book
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Trns-port
Other
Standards
Specifications

T: Plan Details and/or Technical Specifications required

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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 23	CLEANING & SEALING EXISTING PIPE JOINT, 15" STORM SEWER	EA	T	1/1/2011	
0430821 33	CLEANING & SEALING EXISTING PIPE JOINT, 30" STORM SEWER	EA	T	1/1/2010	
0430821 40	CLEANING & SEALING EXISTING PIPE JOINT, 42", STORM SEWER	EA	T	1/1/2010	
0430821 41	CLEANING & SEALING EXISTING PIPE JOINT, 48", STORM SEWER	EA	T	1/1/2010	
0430822 15	CLEANING & SEALING EXISTING PIPE JOINT, 15" CD	EA	T	1/1/2010	
0430822 25	CLEANING & SEALING EXISTING PIPE JOINT, 18" CD	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

This pay item is used for filling/plugging existing drainage pipe, 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"

This pay item may also be used for filling/plugging drainage structures associated with placing drainage pipe out of service, when it is not practical to remove the drainage structure. Tabulate quantities in the plans.

Temporary Plugging: "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.)