

## Chapter 8 PLAN SUMMARY BOXES

CADD Forms/Sheets/Cells are maintained by the State Engineering/ CADD Office at <http://www.dot.state.fl.us/ecso/default.htm> Updates are posted through maintenance releases and the FDOT CADD Support community website.

NOTE: This chapter is effective for Plan Summary Boxes (Comp Book replacements) started January 2014 and later. Refer to the CADD Office's web page for updates and additional information.

**This chapter will continue to be updated, as needed. All changes will be coordinated with the Engineering CADD Systems Office (ECSSO), as well as the responsible office for specific summary boxes. Refer to the Revision History at the end of this chapter for additional details.**

**Summary Box Examples have been added to the end of this chapter. Additional examples will be provided as they become available.**

### 8-1 Introduction

For many years, Computation Books were used to document planned and final quantities, by location, for each pay item on a project. These books were used by construction inspectors to document quantity changes and related notes as a project progressed. Alternatively, some pay items were documented within the plans on summary tables. The summary table information varied; only selected tables detailed the quantities by location. While both methods contained similar information, computation books were not a part of the contract bid documents.

Due to requests from our bidding contractors, the State Construction Office began an effort to streamline the final estimates process. Effective January 2014, projects starting the quantity calculation process will no longer be creating computation books. Quantities will be documented in the plan set using summary boxes and/or tabulation of quantities sheets.

All pay items must be documented on a plan summary box or tabulation sheet. In general, Roadway and Structures items are included on plan summary boxes. Signing, Pavement Marking, Lighting, Signalization, Landscaping, and Utility component plans will use tabulation sheets. Whether plan summary boxes or tabulation sheets are used, the quantity of each item, by location is required. Each quantity must be calculated with one additional significant decimal place, totaled, and then rounded to the defined precision for each pay item. If station equations exist in the alignment, the region numbers are required for the station locations.

If a question arises involving quantities, Construction will request in writing, that the designer provide detailed documentation or verify the concern of the pay item(s) in question. The designer shall produce the back-up documentation within five working days of the request from construction.

## 8-2 Adding and Deleting Columns or Rows

The summary boxes are formatted with pay items and quantities listed in columns or rows. Customize the summary boxes for the specific work to be quantified/documented. Do not add columns or rows for pay items not associated with that summary box. Do not add columns or rows for sheet numbers or other non-standard information. Update pay item (A) and size (XX) on column heading. Specific modifications to summary boxes that are prohibited are identified below with each box. Unused columns or rows may be hidden or deleted; this is not required. However, DO NOT hide or delete the columns or rows intended for Construction Remarks or Final (F) quantities. When noting plans revisions, DO NOT use the areas reserved for construction's use, including the Construction Remarks column. Additional guidance is provided with each summary box below.

When adding columns or rows to a summary box, consider the size of the plan sheet(s). Refer to CADD instructions for boxes that extend beyond one page, so that quantities continue to automatically total across continued boxes.

For summary boxes that show each pay item in a separate column and total at the bottom, the Plan Total should be shown on the first summary box with any subsequent summary boxes showing only the Sub-Totals. This format has already been set up in the templates provided by the CADD office.

For pay items with multiple rows, due to area/locations or other details, DO NOT REPEAT the pay item number and description multiple times. Only enter the pay item, description, unit of measure, and total on the first line. Use as many additional rows, as needed, for each location. DO NOT add subtotals to any sheet.

For Summary Boxes designed to include multiple pay items, show all locations/quantities of the first pay item, followed by locations/quantities of the next pay item. DO NOT use a separate box for each pay item.

## 8-3 Summary Box Order

Summary boxes for the Roadway component items are placed on Summary of Quantities sheets, and numbered SQ-1, SQ-2, etc. Do not use other alpha characters for sheet suffixes. These sheets will be located after the roadway typical section sheet(s). Refer to the *Plans Preparation Manual*, Volume 2, Section 3.2.7 for additional details. Do not add non-standard summary tables, tabulation sheets, or other data tables to the Summary Of Quantities sheets.

Within the SQ sheets, place the summary boxes in the following order, when possible. While allowances may be made to fit multiple summary boxes on a single sheet, the pay

item order shown below will allow items to be easily located. Do not number the summary boxes in the plans.

#	Summary Box Title <i>(select title to go to Instructions)</i>	Examples
1	<a href="#">Summary of Lump Sum Items</a>	<a href="#">Examples</a>
2	<a href="#">Summary of General Items</a>	<a href="#">Examples</a>
3	<a href="#">Summary of Temporary Traffic Control Plan Items (TTCP)</a>	<a href="#">Examples</a>
4	<a href="#">Summary of Temporary Signalization and Detection</a>	<a href="#">Examples</a>
5	<a href="#">Summary of Temporary Driveways</a>	<a href="#">Examples</a>
6	<a href="#">Summary of Temporary Crash Cushions</a>	<a href="#">Examples</a>
7	<a href="#">Summary of Erosion and Sediment Control Devices</a>	<a href="#">Examples</a>
8	<a href="#">Summary of Litter Removal and Mowing</a>	<a href="#">Examples</a>
9	<a href="#">Summary of Monitor Existing Structures</a>	<a href="#">Examples</a>
10	<a href="#">Summary of Clearing and Grubbing &amp; Removal Items</a>	<a href="#">Examples</a>
11	<a href="#">Summary of Mailboxes</a>	<a href="#">Examples</a>
12	<a href="#">Summary of Earthwork</a>	<a href="#">Examples</a>
13	<a href="#">Summary of Geotechnical Items</a>	<a href="#">Examples</a>
14	<a href="#">Summary of Turnouts</a>	<a href="#">Examples</a>
15	<a href="#">Summary of Pavement</a>	<a href="#">Examples</a>
16	<a href="#">Summary of Miscellaneous Asphalt Pavement</a>	<a href="#">Examples</a>
17	<a href="#">Summary of Structures Quantities, Bridge XXXXXX*</a>	<a href="#">Examples</a>
18	<a href="#">Summary of Box Culverts*</a>	<a href="#">Examples</a>
19	<a href="#">Summary of Walls</a>	<a href="#">Examples</a>
20	<a href="#">Summary of Utility Adjustments</a>	<a href="#">Examples</a>
21	<a href="#">Summary of Sidedrain &amp; Mitered End Sections</a>	<a href="#">Examples</a>
22	<a href="#">Summary of Miscellaneous Drainage Items</a>	<a href="#">Examples</a>
23	<a href="#">Summary of Trench Drain</a>	<a href="#">Examples</a>
24	<a href="#">Summary of Underdrain</a>	<a href="#">Examples</a>
25	<a href="#">Summary of French Drain</a>	<a href="#">Examples</a>
26	<a href="#">Summary of Edgedrain</a>	<a href="#">Examples</a>
27	<a href="#">Summary of Railing</a>	<a href="#">Examples</a>
28	<a href="#">Summary of Permanent Barrier Wall</a>	<a href="#">Examples</a>
29	<a href="#">Summary of Curb &amp; Gutter and/or Traffic Separators</a>	<a href="#">Examples</a>
30	<a href="#">Summary of Sidewalk &amp; Detectable Warnings</a>	<a href="#">Examples</a>
31	<a href="#">Summary of Permanent Driveways</a>	<a href="#">Examples</a>
32	<a href="#">Summary of Ditch Pavement</a>	<a href="#">Examples</a>
33	<a href="#">Summary of Guardrail</a>	<a href="#">Examples</a>
34	<a href="#">Summary of Cable Barrier (Pending)</a>	<a href="#">Examples</a>
35	<a href="#">Summary of Permanent Crash Cushions</a>	<a href="#">Examples</a>
36	<a href="#">Summary of Fencing</a>	<a href="#">Examples</a>
37	<a href="#">Summary of Performance Turf</a>	<a href="#">Examples</a>
38	<a href="#">Summary of Traffic Monitoring Site Items</a>	<a href="#">Examples</a>

\*Structures summaries, only when no separate component plans exist

In the Structures component plans, the summary boxes will be placed on Summary of Structures Quantity sheets and be numbered BQ#-1, BQ#-2, etc. These sheets will be located after the key sheet/index sheet.

For structures projects without a Roadway component, the Summary of Structures Quantity sheets for all structures will be located after the Summary of Pay Items sheet (Transport report).

For signing, lighting, and similar projects without a Roadway component, most pay items will be shown on the tabulation sheet. For incidental Roadway pay items, include the appropriate summary boxes following the tabulation sheet. Continue to number the component sheets without the SQ numbering (i.e. S1, S2, S2, or L1, L2, L3). All of these sheets (tab sheets and summary of quantity sheets) should be placed in the TABQXX design files.

For Roadway projects without a Lighting, Signing, or similar components, summarize the quantities for incidental component work on either the appropriate summary box (Summary of Removal Items, Summary of Utility Adjustments), on the Summary of General Items or on the appropriate Tabulation of Quantities Sheet. If the Tabulation of Quantities sheet is used, it should be placed behind the Summary of Quantities sheets and number with the rest of the Roadway component sheets.

For multiple projects let under one contract, Summary Boxes or Tabulation Sheets are completed separately for each project; locate the summary boxes for each project with their respective project and component plans. When incidental work (project B without separate plans) is added to a larger project (project A with plans), the summary boxes for the incidental work are shown following the summary boxes for the larger project, with the project number located in the upper right corner of the summary box. For example:

- Summary of Lump Sum Items (Project A in upper right corner)
  - Summary of Lump Sum Items (Project B, in upper right corner)
  - Summary of General Items (Project A in upper right corner)
  - Summary of General Items (Project B, in upper right corner)
  - Summary of Temporary Traffic Control Plan Items (TTCP) (Project A in upper right corner)
  - Summary of Temporary Traffic Control Plan Items (TTCP) (Project B, in upper right corner)
- Continue with summary box order shown above.

The project number in the upper right corner should ONLY be used when separate plans for project B do not exist, and work under a separate project number is shown in project A.

SUMMARY OF GENERAL ITEMS									FPID: 999999-5-52-01		
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		





102: Traffic Control

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Signalization, as well as maintenance of Existing Signalization.

DO NOT include these pay items on the Summary of Temporary Traffic Control Devices.

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION														DESIGN NOTES	CONSTRUCTION REMARKS	
PHASE	DURATION	0102104						0102107 1								
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY								
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW					
		DAYS	#	P	F	#	P	F	#	P	F	#	P			F
SUB-TOTAL																
TOTAL						TOTAL										

5. Summary of Temporary Driveways

102: MOT- Temp Driveways

[Examples; Return to Summary Box List](#)

This form is intended to summarize the locations for Temporary Driveways, and quantity needed for Commercial Material. DO NOT include this pay item on the Summary of Temporary Traffic Control Devices.

SUMMARY OF TEMPORARY DRIVEWAYS									DESIGN NOTES	CONSTRUCTION REMARKS
LOCATION	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE							
			L	W	THK	0102 3				
			FT	FT	IN	CY				
						P	F			
SUB-TOTAL:										
TOTAL:										

6. Summary of Temporary Crash Cushions

102: Temporary Crash Cushions

[Examples; Return to Summary Box List](#)

This form is intended for use with Temporary Crash Cushions. Details must be provided for each location. DO NOT include this pay item on the Summary of Temporary Traffic Control Devices.











Barrier Walls should be shown on the Summary of Barrier Walls.

Sheet piling associated with a structure is shown on the Summary of Structure Quantities. Sheet piling not associated with a structure is shown on the Summary of Walls.

Steps should be shown on the Summary General Items or the appropriate tabulation sheet for landscaping or architecture.

SUMMARY OF STRUCTURE QUANTITIES - BRIDGE XXXXXX										
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
LUMP SUM ITEMS										
EARTHWORK										
FOUNDATION										
CULVERT										
SUBSTRUCTURE										
APPROACH SLABS										
SUPERSTRUCTURE										
RAILINGS/BARRIERS										
MOVABLE BRIDGE ARCHITECTURAL										
SPECIAL FEATURES										

### 18. Summary of Box Culverts

400s: Box Culverts, Reinforcing Steel

[Examples; Return to Summary Box List](#)

This form is used for Box Culverts less than 20', shown in the Roadway component plans. Bridge Culverts (20' and greater) are shown in the Structures component plans, on the Summary of Structures Quantities, with the bridge number in the summary box heading.

SUMMARY OF BOX CULVERTS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION		P	F	P	F		

### 19. Summary of Walls

400, 534, etc.

[Examples; Return to Summary Box List](#)

This form is intended for use with Noise Walls, MSE walls, Perimeter Walls, Gravity Walls, and Retaining Walls. Barrier Walls should be included on the Summary of Barrier Walls.

Sheet piling associated with a structure is shown on the Summary of Structure Quantities. Sheet piling not associated with a structure is shown on the Summary of Walls.



















### **Signing and Pavement Markings: Tabulation of Quantities**

700s: Signing

This form is intended for use with Signing and Pavement Marking Items

Summarize items by pay item and location.

### **Lighting: Tabulation of Quantities**

715: Lighting

This form is intended for use with Lighting Items.

Summarize items by pay item and location.

Note: See conduit pay items for additional required plan details.

### **Utility: Tabulation of Quantities**

U1000: Utility Work

This form is intended for use with Utility Work.

## **8.6 Pay Items with No Form Required**

### **Maintenance Item- No Form Required**

*000: Maintenance*

NO BOX OR FORM: Maintenance pay items do not require any specific form or summary box.

### **NA: No applicable form/Form not needed**

*000: No applicable form*

NO BOX OR FORM: DO NOT BID and "special" pay items do not require any summary box or form.

## **8.7 Lump Sum Contracts**

Projects or Contracts using pay item 999-2 will continue to require detailed quantities, by location, for work shown in the plans. Complete the summary boxes or tabulation sheet(s), similar to traditional pay item projects. Do not include the total quantity.

For example, Roadway guardrail is summarized by location from station A to B as 250', station C to D as 300', and station E to F as 500'; do not provide pay item number 536-1-1 or the total quantity.

Pay item numbers are not needed on Summary Boxes or Tabulation sheets for Lump Sum Contracts, but may be used to describe work to be completed. When pay items are included, a note is added to the Summary of Pay Items sheet, per the Plans Preparation Manual:

*999-2 Lump Sum Contract: All other Pay Item numbers shown in the*

*Contract Plans are provided for the purpose of describing the work to be performed. Pay item descriptions are found in the Department's Basis of Estimates Manual."*

The above note should be used once. Do not repeat the note on any SQ sheets.

## 8.8 Pay Item Request Form

### PAY ITEM REQUEST

600-000-02

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

### Chapter 8 Revision History-

**2-2-17:** Added notes for Monitor Existing Structures. Added instructions and example for Temporary Traffic Control Devices with different durations within a phase.

**11-1-16:** Updated header dates for 2017 edition.

- Summary of Clearing and Grubbing & Removal Items: Updated title, replaced graphic.
- Summary of General Items: removed old note.
- Summary of Box Culverts: Clarified instructions for bridge culverts.
- Summary of Performance Turf: Removed note regarding Temporary Sod. Future guidance pending.
- Summary of Traffic Monitoring Site Items: added graphic.
- Examples: Added text to clarify some of the correct/incorrect features.

**6-8-16:** NO policy or instruction changes were made. Corrected title of "Traffic Monitoring Site". Updated examples. Added Landscape Soil details.

**1-28-16:** Updated entire Chapter for 2016 edition.

- Header: Updated header dates.
- 8-1: Expanded 3<sup>rd</sup> paragraph to include calculation note.
- 8-2: Clarified that empty columns/rows do not need to be deleted. Added reminder to keep Construction notes column reserved for construction use (not used by designer). Added note to restrict added subtotals.
- 8-3: Clarified sheet numbering. Updated PPM reference. Converted list to table. Added hyperlinks to sample box and examples.
- 8-4: Added "and Instructions" to article heading. Added note regarding examples.
- 8-5 through 8-8: Corrected article numbering.
- 8-5: Expanded text to clarify calculations. Added PPM reference for sheet numbering.
- Summary of General Items: updated guidance. Removed reference to Traffic Monitoring due to new summary box.
- Summary of Special Detour Quantities: Summary Box removed; no longer valid.
- Summary of Monitor Existing Structures: New Summary Box, per bulletins and 2016 PPM. Note change from "Protection of Existing Structures" to "Monitor Existing Structures".

- Summary of Removal Items: Clarified note for LS item.
- Summary of Geotechnical Items: Clarified note for specification reference.
- Summary of Turnouts: Clarified guidance for showing surface course.
- Summary of Pavement: Clarified guidance for driveways and overbuild.
- Summary of Misc Asphalt Pavement: Removed obsolete note.
- Summary of Sidedrain & MES: updated guidance for Sod/Turf, added reference to PPM, and added note for updated summary box.
- Summary of Sidewalk & Detectable Warnings: Clarified guidance for driveways.
- Summary of Permanent Driveways: Clarified guidance for asphalt driveways.
- Summary of Traffic Monitoring Items: Sample summary box is pending.
- Added Examples & links for all summary boxes. Additional populated examples will be added as they become available.
- Landscape tabulation of Quantities: This tabulation sheet may include the plant

**8-20-15:** Added Summary Box Examples to end of chapter. Added note above 8.1 Introduction. Formatted 8-3 table for Summary Box Order, to include hyperlinks within chapter to instructions and examples for each summary box.

**8-6-15:** Added text to 8.1 Introduction, to address 5 day language for response to quantity questions from Construction. This text was previously located in the *Computation Methods for Design, Construction, and Final Estimates Handbook*. Added text to Summary of Miscellaneous Drainage Items, Summary of Side Drain and Mitered End Sections, Summary of Trench Drain, Summary of Underdrain, and Summary of French Drain, to clarify usage and avoid duplication of quantities.

**4-28-15:** Added details to Summary of Pavement, to require overbuild quantities to be shown separately from structural quantities. Removed reference to Field Office from Summary of General Items. Removed reference to Special Detours from Summary of Temporary Traffic Control Plan Items. Added note to keep Summary of Temporary Signalization & Detection separate from Summary of Temporary Traffic Control Devices.

**2-20-15:** Updated note for Summary of Permanent Barrier Wall, to address 521-8 items. Added Summary of Temporary Signalization to list in 8-3. Marked Summary of Special Detour with strikethrough, due to Estimates Bulletin 14-06. Added Summary of Cable Barrier (Pending).

**2-10-15:** Updated Summary of Structure Quantities and Summary of Walls with note for Sheet Piling. Replaced Summary of Drainage Structures box. Updated note for Special Detour, per Estimates Bulletin 14-06. Updated Summary of Miscellaneous Asphalt; removed column for Temporary Sidewalk.

**12-30-14:** Updated header dates for 2015 edition. Removed contact information from header. Updated note in red at top of chapter to refer to revision history. Added text to 8.2 for summary box totals to be shown on the first page, per the CADD templates. Added text to 8.3 for multiple projects let under one contract.

**10-20-14:** Added note to Summary of Guardrail for removal pay item.

**10-17-14:** Updated all graphics for the latest Summary Boxes.

**10-13-14:** Added rumble strips to Summary of Pavement.

**9-24-14:** Temporary Signalization- updated detail. When the new box with total is used, do not include the total on the Summary of Temporary Traffic Control Plan Items. If the

old box is used, the total remains on the Summary of Temporary Traffic Control Plan Items.

**9-19-14:** Updated details for Summary Boxes, as follows:

- Temporary Traffic Control Plan Items: Corrected items, based on new boxes. Added notes to limit format of summary box. Added note for 710-90 and temporary items.
- Added Summary of Temporary Signalization and Detection.
- Litter and Mowing: added notes for areas identified in the plans.
- Miscellaneous Asphalt Pavement: updated notes to remove temporary asphalt and temporary sidewalk.
- Utility Adjustments: updated notes to clarify items to be included.
- Sidedrain and Mitered End Sections: clarified that pay item numbers are not shown, and are not to be added by designer.
- Sidewalk & Detectable Warnings: clarified note for location/area ID.
- Sidewalk, Curb, and Ditch Pavement: added note for removal work. Permanent Crash Cushions: Removed note- cadd file is current.
- Fencing: Added note for temporary fencing.
- Performance Turf: Added note for temp sodding.

**9-19-14:** Update 8.2 to clarify when columns or rows may be added or deleted.

**9-17-14:** Updated 8.3 to clarify that non-standard tables may not be included with SQ sheets. Changed TABQLT to TABQXX. Added Summary of Temp Signals to list of Summary Boxes.

**9-16-14:** Updated 8.6 to clarify note location on the Summary of Pay Items.

**8-28-14:** Updated Special Detour to include Temporary Bridge information.

**8-12-14:** Updated introductory information to remove "Draft" statement.

**8-7-14:** Updated instructions for Lump Sum projects, to allow pay item numbers, with notice.

**4-18-14:** Updated instructions based on user comments.

**3-17-14:** Added instructions for projects with no roadway component.

**2-26-14:** Updated text with additional notes and guidance, per CADD webinar training.

**3-6-13:** Complete re-write of Chapter, due to change from Comp Book to Plan Summary Boxes. Chapter title changed from "Forms" to "Plan Summary Boxes". Refer to Estimates Bulletin 13-09 for details.

**2-20-13:** Updated header dates for 2013 edition.

**11-23-11:** Updated header dates for 2012 edition.

**7-29-11:** Updated web link for Construction forms.

**5-19-11:** Updated web link for Computation Methods For Design, Construction & Final Estimates Handbook.

**11-10-10:** Updated header dates for 2011 edition. Updated Construction Office web links. Changed font size from 10 pt to 12 pt.

**11-8-10:** Inserted 8.5 to better explain Forms and Documentation. Renumbered Estimates Forms from 8.5 to 8.6.

**10-30-09:** Updated header dates for 2010 edition.

**10-6-08:** Updated header dates for 2009 edition.

**10-6-08:** Updated pay item request form information, per Chapter 6. Use of the form is optional.

**5-14-08:** Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.

## Summary Box Examples

These examples are provided to show specific details from the instructions provided above (Chapter 8), as well as pay item specific instructions contained in the details section of various pay items (Chapters 11-20). The examples are not intended to cover all possible situations.

Additional examples of correct/incorrect summary boxes are welcome and appreciated. Submit files to: [Denise.Broom@dot.state.fl.us](mailto:Denise.Broom@dot.state.fl.us) and [Melissa.Hollis@dot.state.fl.us](mailto:Melissa.Hollis@dot.state.fl.us)

### Miscellaneous Errors:

Do NOT move or delete the total columns or rows. The total for a pay item should be found on either the FIRST row when the items total across, or the FIRST summary box when the items total at the bottom.

Do NOT include Tab sheets within the SQ sheets. They go after the SQ sheets and are numbered with the rest of the component plan set.

### General Notes:

The hyphen in the pay item is acceptable; however, when used, it needs to be consistent throughout the summary boxes.

Blank rows used to separate pay item groups, locations, etc. may be helpful for easier reading; this is a designer option.

### 1. Summary of Lump Sum Items

[Instructions](#); [Return to Summary Box List](#)

#### Correct:

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101-1	MOBILIZATION	1			

**Incorrect:**

102-1 belongs on the Summary of Temporary Traffic Control Plan Items

110-1-1 belongs on the Summary of Removal Items.

<b>SUMMARY OF LUMP SUM ITEMS</b>								
<b>PAY ITEM NO.</b>	<b>UNIT</b>	<b>SECONDARY UNIT</b>	<b>AREA ID</b>	<b>PAY ITEM DESCRIPTION</b>	<b>QUANTITY</b>		<b>TOTAL</b>	<b>CONSTRUCTION REMARKS</b>
					<b>P</b>	<b>F</b>		
0101 1	LS			MOBILIZATION	1		1	
0102 1	LS			MAINTENANCE OF TRAFFIC	1		1	
0110 1 1	LS	AC	153189	CLEARING & GRUBBING	1/ (30.05AC)		1/ (30.05AC)	

**2. Summary of General Items**

[Instructions; Return to Summary Box List](#)

**Correct:**

**Incorrect:**

Location information is missing.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		CONSTRUCTION REMARKS
				P	F	
0519 78	BOLLARDS		EA	70		
	FIXED - 30					
	REMOVABLE - 9					
	WOODEN - 31					

102-3 has its own summary box, Summary of Temporary Driveways. It does not go with the General Items.

SUMMARY OF GENERAL ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNITS	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F		
102-3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY	7		FOR TEMP. DRIVEWAY ACCESS	
					AT STA. 110+94.33 TO STA. 111+29.33	

### 3. Summary of Temporary Traffic Control Plan Items (TTCP)

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

102-78 Temporary Retroreflective Pavement Markers used for MOT are included in this summary box.

102-14 Traffic Control Officer (contractor's use for MOT) included by phase.

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P	DAYS	P	P				
0102-1	MAINTENANCE OF TRAFFIC	LS							1		500 CONSTRUCTION DAYS	
0102-2-1	SPECIAL DETOUR - DIVERSION 1	LS		1	1				1			
0102-2-2	SPECIAL DETOUR - DIVERSION 2	LS					1	1	1			
0102-14	TRAFFIC CONTROL OFFICER	MH			2			2	4			
0102-60	WORK ZONE SIGN	ED	300	23	6,900	147	23	3,381	10,281			
0102-61	BUSINESS SIGN	ED	300	3	900	147	3	441	1,341			
0102-71-11	TEMPORARY BARRIER WALL	LF		564	564				564			
0102-74-1	CHANNELIZING DEVICE, TYPES I, II, DI, VP, Drum, OR LCD	ED	300	560	168,000	147	437	64,239	232,239			
0102-74-2	CHANNELIZING DEVICE, TYPE III, 6'	ED	300	10	3,000	147	10	1,470	4,470			
0102-76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	300	2	600	147	2	294	894			
0102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA		1187	1,187		649	649	1,836			
0102-99	PORTABLE CHANGEABLE MESSAGE SIGN - TEMPORARY	ED	307	4	1,228	147	2	294	1,522		INCLUDES 7 DAYS PRIOR	
0102-911-2	REMOVABLE TAPE PAVEMENT MARKING - WHITE / BLACK	LF		521	521				521			
0710-11-101	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6"	NM		5.337	5.337		5.337	5.337	11			
0710-11-102	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 8"	GM		1.531	1.531		1.531	1.531	3			
0710-11-123	PAINTED PAVEMENT MARKINGS STD, WHITE, SOLID 12"	LF		1.636	1.636		1.636	1.636	3,272			
0710-11-124	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18"	LF		3,259	3,259		3,259	3,259	6,518			
0710-11-125	PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	LF		1,733	1,733		1,733	1,733	3,466			
0710-11-131	PAVEMENT PAVEMENT MARKINGS, STD, WHITE, SKIP 10-30 OR 3-9 SKIP, 6" WIDE	GM		3.935	3.935		3.935	3.935	8			
0710-11-141	PAINTED PAVEMENT MARKINGS, STD, WHITE, DOTTED, GAP EXTENSION 6"	GM		2.128	2.128		2.128	2.128	4			
0710-11-160	PAINTED PAVEMENT MARKINGS, SRD, WHITE, MESSAGE OR SYMBOL	EA		23	23		23	23	46			
0710-11-170	PAINTED PAVEMENT MARKINGS, STD, WHITE, ARROWS	EA		69	69		69	69	138			
0710-11-201	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	NM		5.555	5.555		5.555	5.555	11			
0710-11-224	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 18"	LF		281	281		281	281	562			
0710-11-241	PAINTED PAVEMENT MARKINGS, STD, YELLOW, DOTTED, GAP EXTENSION 6"	GM		0.131	0.131		0.131	0.131	0.262			

Always use whole numbers for "Each" and "Each Day" item quantities. Add additional rows for different durations within the phase. See below for Items needed less than the full phase duration, example with 3 devices needed for 60 days, and 2 devices needed for 30 days:

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE I			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	P	F		
			DAYS	P	P				
102-76	ARROW BOARD/ ADVANCE WARNING ARROW PANEL	ED				240		Total, both locations	
		ED	60	3	180			Location aaaa	
		ED	30	2	60			Location bbb	

**Incorrect:**

Do not include 706-3 Reflective Pavement Markers (RPMs) with Temporary Traffic Control Plan Items. Permanent RPMs are included with 710-90 Final Surface Markings.

#### 4. Summary of Temporary Signalization and Detection

[Instructions](#); [Return to Summary Box List](#)

**Correct:** This form is NOT limited to “Temporary Signals”. Quantity based on maintaining existing intersections for the full duration of project.

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION														DESIGN NOTES	CONSTRUCTION REMARKS			
PHASE	DURATION	0102104						0102107 1										
		TEMPORARY SIGNALS & MAINTENANCE OF INTERSECTION - EACH DAY						TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION - EACH DAY										
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW							
DAYS	#	P	F	#	P	F	#	P	F	#	P	F						
1	91	3	273							3	273							
2	190	3	570							3	570							
3	152	3	456							3	456							
4	31	3	93							3	93							
SUB-TOTAL		1392						1392										
		TOTAL			1392						TOTAL			1392				

**Incorrect:**

Quantities must be summarized by phase, or indicate “all phases”. Missing Construction Remarks column.

SUMMARY OF TEMPORARY SIGNALIZATION & DETECTION																
PHASE	DURATION	102-104 TEMPORARY SIGNALIZATION & MAINTENANCE OF INTERSECTION, EACH DAY						102-107-1 TEMPORARY TRAFFIC DETECTION & MAINTENANCE OF INTERSECTION, EACH DAY								
		EXISTING			TEMPORARY			EXISTING			TEMPORARY/NEW					
		DAYS	#	PLAN	FINAL	#	PLAN	FINAL	#	PLAN	FINAL	#	PLAN	FINAL		
1	120	10	1200							10	1200					
SUB-TOTAL		1200						1200								
		TOTAL			1200						TOTAL			1200		

### 5. Summary of Temporary Driveways

[Instructions](#); [Return to Summary Box List](#)

**Correct:** Example with location and dimensions

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE				DESIGN NOTES	CONSTRUCTION REMARKS
		L FT	W FT	THK IN	CY P F		
70+53.00	RT	39.50	12.00	6.00	8.8		PHASE 1
70+85.00	RT	40.00	12.00	6.00	8.9		PHASE 1
72+21.00	RT	40.00	12.00	6.00	8.9		PHASE 1
61+48.00	LT	41.00	12.00	6.00	9.1		PHASE 2
62+97.00	LT	41.00	12.00	6.00	9.1		PHASE 2
66+05.00	LT	41.00	18.00	6.00	13.7		PHASE 2
71+56.00	LT	41.50	12.00	6.00	9.2		PHASE 2
SUB-TOTAL:					68		
TOTAL:					68		

**Example with Location, Area ID, and Thickness**

SUMMARY OF TEMPORARY DRIVEWAYS							
LOCATION STA. @ C/ OF DRIVEWAY	SIDE	AREA ID	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE			DESIGN NOTES	CONSTRUCTION REMARKS
			THK IN	0102 3 CY P F			
1011+00.00	LT	290406	2.00		7.76		PHASE 1
1014+00.00	LT	290392	2.00		3.34		PHASE 1
1014+00.00	LT	290399	2.00		3.10		PHASE 1
1018+60.00	RT	290619	2.00		2.66		PHASE 1
1019+65.00	RT	290636	2.00		2.96		PHASE 1
1020+25.00	RT	290656	2.00		2.07		PHASE 1
291+62.00	LT/RT	290898	2.00		6.10		PHASE 3
294+25.00	LT/RT	290842	2.00		4.40		PHASE 3
1018+50.00	LT/RT	290820	2.00		3.58		PHASE 3
1018+60.00	LT/RT	290803	2.00		1.62		PHASE 3
1019+65.00	LT/RT	290831	2.00		2.51		PHASE 3
1020+25.00	LT/RT	290775	2.00		2.29		PHASE 3
SUB-TOTAL:					42.4		
TOTAL:					42		

**Incorrect:**

### 6. Summary of Temporary Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

**Correct:** Do not remove any columns from this table; all design information is required. If length restriction does not apply, use N/A; do not remove column.

SUMMARY OF TEMPORARY CRASH CUSHIONS												
TTC PHASE	STATION	OFFSET (FT)	SIDE	WORK ZONE SPEED (MPH)	TEST LEVEL (TL-2 OR TL-3)	WIDTH OF HAZARD (IN)	LENGTH RESTRICTION (FT)	TEMPORARY CRASH CUSHION			DESIGN NOTES	CONSTRUCTION REMARKS
								0102	89	1		
								P	F			
I	1371+65.30	8.50'	LT.	50	TL-3	24.00	N/A	1				
I	1374+00.00	35.64'	LT.	50	TL-3	24.00	N/A	1				
I	100+49.38	5.50'	RT.	40/50	TL-3	24.00	N/A	1				
I	1712+92.00	90.86'	RT.	70	TL-3	24.00	N/A	1				
I	85+80.00	8.36'	LT.	50	TL-3	24.00	N/A	1		RAMP A-1		
I	85+80.00	21.00'	RT.	50	TL-3	24.00	N/A	1		RAMP A-1		
I	418+40.00	8.29'	LT.	50	TL-3	24.00	N/A	1		RAMP D-1		
I	418+40.00	21.69'	RT.	50	TL-3	24.00	N/A	1		RAMP D-1		
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	LT.	40	TL-2	24.00	N/A	1				
I	SLIGH AVE.	SEE PLANS	RT.	40	TL-2	24.00	N/A	1				
II	1372+21.12	19.79'	LT.	50	TL-3	24.00	N/A	1				
III	1210+00.00	17.00'	RT.	40/50	TL-3	24.00	N/A	1				
SUB-TOTAL:								14				
TOTAL:								14				

**Incorrect:**

7. Summary of Erosion and Sediment Control Devices

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES														
LOCATION  STA. TO STA.	SIDE	AREA ID	ARTIFICIAL COVERINGS / ROLLED EROSION CONTROL		SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
			104 1		0104 10 3		0104 11		0104 15		0104 18			
			LF		LF		EA		EA		EA			
			P	F	P	F	P	F	P	F	P	F		
1401+69.67 R2 to 1403+76.66 R2	RT					252.7								
1401+78.80 R2 to 1403+69.32 R2	LT					243.1								
1404+01.92 R2 to 1407+29.79 R2	RT					418.0								
1404+07.29 R2 to 1411+03.51 R2	LT					755.9								
1407+68.94 R2 to 1411+02.14 R2	RT					414.2								
1410+74.82 R2 to 1410+78.56 R2	RT					4.9								
1411+39.97 R2 to 1414+72.72 R2	RT					406.6								
1411+42.18 R2 to 1418+30.39 R2	LT					830.8								
1415+06.38 R2 to 1418+28.18 R2	RT					375.8								
1418+74.44 R2 to 1421+44.39 R2	RT					449.0								
1418+80.65 R2 to 1421+32.57 R2	LT					390.2								
1418+81.13 R2 to 1418+81.64 R2	LT					15.0								
1418+93.50 R2 to 1419+00.00 R2	RT					6.7								
1422+44.37 R2 to 1428+25.73 R2	RT					756.9								
1422+47.14 R2 to 1436+85.49 R3	LT					1483.9								
1428+50.18 R2 to 1436+61.28 R3	RT					1024.9								
1437+43.12 R3 to 1441+33.27 R3	LT					404.1								
1437+49.84 R3 to 1441+42.10 R3	RT					448.3								
1441+72.52 R3 to 1445+23.59 R3	LT					373.6								
1441+76.60 R3 to 1445+21.40 R3	RT					375.0								
1445+62.91 R3 to 1452+80.15 R3	LT					697.2								
1445+72.40 R3 to 1448+40.49 R3	RT					293.9								
1448+61.31 R3 to 1451+00.00 R3	RT					251.8								
1451+57.58 R3 to 1455+63.05 R3	RT					416.0								
1453+18.60 R3 to 1461+92.11 R3	LT					902.7								
1455+99.20 R3 to 1461+76.64 R3	RT					618.8								
1425+44.51 R2 to 1426+37.18 R2	RT						92.8							
1425+95.55 R2 to 1426+58.44 R2	LT						67.0							
1447+52.17 R3 to 1447+95.65 R3	RT						45.7							
1447+98.03 R3 to 1448+52.40 R3	LT						51.8							
1407+31.18 R2 to 1407+33.22 R2	RT													I
1407+52.74 R2 to 1407+54.78 R2	LT													I
1407+64.39 R2 to 1407+66.43 R2	RT													I
1411+01.08 R2 to 1411+03.12 R2	RT													I
1411+33.99 R2 to 1411+36.03 R2	RT													I
1411+35.28 R2 to 1411+37.33 R2	LT													I
1414+70.92 R2 to 1414+72.97 R2	RT													I
1414+90.54 R2 to 1414+92.59 R2	LT													I
1415+04.03 R2 to 1415+06.08 R2	RT													I
1415+04.74 R2 to 1415+06.78 R2	LT/RT													I
1418+05.39 R2 to 1418+07.43 R2	LT/RT													I
1418+31.29 R2 to 1418+33.33 R2	RT													I
1418+65.40 R2 to 1418+67.44 R2	RT													I
1419+57.24 R2 to 1419+59.29 R2	LT													I
1420+58.92 R2 to 1420+60.96 R2	LT													I
SUB-TOTAL:			*349	12609.4	257.3	*2	15	* SEE PAY ITEM NOTES FOR BASIS OF CALCULATIONS						
PLAN TOTAL:			349	12609	257	2	31							
FINAL TOTAL:														

Incorrect:

Do not add pay item notes for replacement. Per the specification, no separate payment is made for maintenance or replacement.

3. PAY ITEM 104-10-3 (SEDIMENT BARRIER)  
INCLUDES ALL COSTS FOR RESTAKING AND MAINTENANCE OF FENCE; AND IS BASED ON  
REPLACEMENT EVERY 12 MONTHS.

Do not specify type of barrier; per the specification, this is an option open to the contractor.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES (CONT.)										
LOCATION  STA. TO STA.	SIDE	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES
		0104 10 3		0104 11		0104 15		0104 18		
		LF		LF		EA		EA		
		P	F	P	F	P	F	P	F	
455+13.34 to 455+13.55	LT.	61.9								SYNTHETIC BALES
458+15.84 to 458+17.08	LT.	62.8								SYNTHETIC BALES
458+87.25 to 458+87.78	RT.	62.8								SYNTHETIC BALES
460+01.33 to 460+02.05	LT.	62.8								SYNTHETIC BALES
462+33.50 to 462+37.10	LT.	60.5								SYNTHETIC BALES
465+00.90 to 465+02.63	LT.	62.8								SYNTHETIC BALES
466+94.95 to 466+95.34	LT./RT.	62.8								SYNTHETIC BALES
469+93.39 to 469+98.63	LT.	62.8								SYNTHETIC BALES
470+47.70 to 470+52.36	LT.	62.8								SYNTHETIC BALES
488+18.78 to 488+23.71	LT.	61.1								SYNTHETIC BALES
493+29.51 to 493+30.09	RT.	65.8								SYNTHETIC BALES
516+69.45 to 516+70.07	LT.	69.3								SYNTHETIC BALES
309+38.76 to 320+75.00	LT.	1137.9								STAKED SILT. FENCE
321+30.00 to 3348+20.00	LT.	2654.2								STAKED SILT. FENCE
322+24.85 to 348+80.00	RT.	2680.7								STAKED SILT. FENCE
1348+79.98 to 1399+76.12	LT.	5089.4								STAKED SILT. FENCE
349+20.00 to 400+17.40	RT.	5114.5								STAKED SILT. FENCE
1402+68.21 to 1446+21.80	LT.	4479.0								STAKED SILT. FENCE
403+31.69 to 439+70.58	RT.	3539.2								STAKED SILT. FENCE
441+87.94 to 1445+13.29	LT./RT.	263.3								STAKED SILT. FENCE
443+76.82 to 449+44.53	RT.	559.6								STAKED SILT. FENCE
444+04.50 to 1447+20.26	LT./RT.	239.1								STAKED SILT. FENCE
1448+74.15 to 1454+09.18	LT.	1587.0								STAKED SILT. FENCE
454+73.46 to 455+32.30	RT.	130.8								STAKED SILT. FENCE
459+06.86 to 461+58.73	RT.	245.2								STAKED SILT. FENCE
488+22.11 to 516+78.48	LT.	2632.5								STAKED SILT. FENCE
497+70.26 to 498+32.23	RT.	126.0								STAKED SILT. FENCE
502+64.14 to 503+31.40	RT.	129.8								STAKED SILT. FENCE
504+91.83 to 505+50.01	RT.	120.5								STAKED SILT. FENCE
1402+79.44 to 1402+87.45	RT.			141.0						FLOATING TURBIDITY
1444+93.42 to 1446+37.74	LT./RT.			221.2						FLOATING TURBIDITY
1446+76.10 to 1448+05.92	LT./RT.			226.2						FLOATING TURBIDITY
440+54.32 to 442+11.90	LT./RT.			221.2						FLOATING TURBIDITY
442+68.78 to 444+13.04	LT./RT.			226.2						FLOATING TURBIDITY
311+11.19 to 488+24.15	LT./RT.					8				1 DEVICE PER MILE NB & SB
305+29.31	RT.							1		INLET PROTECTION SYSTEM
315+98.84	RT.							1		INLET PROTECTION SYSTEM
469+30.61	RT.							1		INLET PROTECTION SYSTEM
471+99.86	RT.							1		INLET PROTECTION SYSTEM
475+00.30	RT.							1		INLET PROTECTION SYSTEM
479+01.22	RT.							1		INLET PROTECTION SYSTEM
488+00.99	RT.							1		INLET PROTECTION SYSTEM
497+65.12	RT.							1		INLET PROTECTION SYSTEM
498+62.46	LT.							1		INLET PROTECTION SYSTEM
505+48.00	LT.							1		INLET PROTECTION SYSTEM
	SUB-TOTAL	31487		1036		8		10		
	FINAL-PLAN	38203		1036		8		10		

**8. Summary of Litter Removal and Mowing**  
[Instructions; Return to Summary Box List](#)

**Correct:**

Frequency estimated based on 30 day cycle.

Separate entry for each area. When automated, the mowing areas and quantities may follow the litter removal areas and quantities.

Use "same as phase x", when applicable.

Note: Only use "ALL" for the Const. Phase column when TCP does not affect the areas for quantities. Otherwise, ensure locations are separated by phases.

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA					
							AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)				
				P	F	P	F	P	F							
ALL	27+68.09 to 28+68.06	LT	90	30	17767	3	0.150	0.450								
ALL	27+68.09 to 29+56.62	RT	90	30	17731	3	0.070	0.210								
ALL	30+60.22 to 37+12.28	LT	90	30	17751	2	0.225	0.960								
ALL	30+53.36 to 37+12.27	RT	90	30	17740	3	0.200	0.600								
ALL	27+68.09 to 29+61.36	LT	90	30					17539	3	0.120	0.360				
ALL	27+68.37 to 28+69.31	RT	90	30					17567	3	0.010	0.030				
ALL	30+48.21 to 32+89.80	LT	90	30					17882	3	0.040	0.120				
ALL	30+63.31 to 32+36.86	RT	90	30					17695	3	0.060	0.180				
ALL	30+88.80 to 32+82.29	LT	90	30					17608	3	0.010	0.030				
ALL	31+32.82 to 32+34.86	RT	90	30					17597	3	0.010	0.030				
ALL	32+93.27 to 35+60.81	RT	90	30					17616	3	0.010	0.030				
ALL	33+25.57 to 35+36.51	LT	90	30					17645	3	0.010	0.030				
ALL	32+57.70 to 35+69.91	RT	90	30					17628	3	0.010	0.030				
					SUB-TOTAL				3.22	SUB-TOTAL				6.84		
					TOTAL					TOTAL						

**Incorrect:**

Each area must be separately identified, either by Area ID or Length/width/location.

Do NOT lump quantities for a phase in one row. (This was acceptable ONLY when supported by a Computation Book, prior to Summary Boxes)

Do not add footnotes to this box.

SUMMARY OF LITTER REMOVAL AND MOWING																		
CONST. PHASE	LOCATION STA. TO STA.	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS			
				AREA ID	LENGTH	WIDTH	CYCLES	AREA		AREA ID	LENGTH	WIDTH	CYCLES			AREA		
								AC/ CYCLE	TOTAL (AC)							AC/ CYCLE	TOTAL (AC)	
				P	F	P	F	P	F									
I	54+21.33 - 760+50.00	20	30				1	261.850	261.850									
II	450+00.00 - 597+00.00	420	30				14	38.910	544.740									
III	450+00.00 - 597+00.00	350	30				12	38.910	453.950									
IV	450+00.00 - 597+00.00	30	30				1	38.910	38.910									
								SUB-TOTAL		1299.450	SUB-TOTAL					1450.597		
								TOTAL		1299.45	TOTAL					1450.60		

THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHOULD NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR

Separate Location column required for each of the pay items.

SUMMARY OF LITTER REMOVAL AND MOWING																		
CONST. PHASE	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS
									0107 1				0107 2					
	STA. TO STA.								AREA		AREA							
									CYCLES	AC/CYCLE	TOTAL (AC)		CYCLES	AC/CYCLE	TOTAL (AC)			
		P	F	P	F			P	F									
ALL	205+00.00 to 264+64.86						230	30	8	5.3	42.4		8	1.37	10.96			
									SUB-TOTAL:		42.4		SUB-TOTAL:		10.96			
									TOTAL:		42.4		TOTAL:		10.96			

NOTE: THE PHASE DURATIONS SHOWN ARE NOT BASED ON PROJECT SCHEDULE AND SHALL NOT BE USED FOR SCHEDULING PURPOSES BY THE CONTRACTOR.

Do NOT modify the pay item description in the header rows.

SUMMARY OF LITTER REMOVAL AND MOWING																		
CONST. PHASE	LOCATION		SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS			
						0107-1				0107-2								
	STA. TO STA.					AREA		AREA										
						CYCLES	AC/CYCLE	TOTAL (AC)		CYCLES	AC/CYCLE	TOTAL (AC)						
		P	F	P	F			P	F									
	429+13.59	456+30.95	RT	60	30	2	3.001	6.003		2	2.405	4.810						
	429+13.59	466+11.77	MED	60	30	2	1.965	3.930		2	1.830	3.660						
	429+58.54	442+46.47	LT	60	30	2	1.131	2.262		2	0.925	1.851						
	442+46.47	456+06.27	LT	60	30	2	1.518	3.035		2	1.208	2.416						
	456+06.27	466+12.11	LT	60	30	2	1.602	3.204		2	1.407	2.814						
	456+30.95	466+11.77	RT	60	30	2	0.971	1.942		2	0.775	1.550						
									SUB-TOTAL:		20.376		SUB-TOTAL:		17.101			
									TOTAL:		20.38		TOTAL:		17.10			

Individual locations are not shown. Areas are lumped together for left and right. Per specifications the limits are different for Litter Removal and Mowing areas.

SUMMARY OF LITTER REMOVAL AND MOWING																		
CONST. PHASE	LOCATION		SIDE	AREA (SY)	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL				MOWING				DESIGN NOTES	CONSTRUCTION REMARKS		
							0107 1				0107 2							
	STA. TO STA.						AREA		AREA									
							CYCLES	AC /CYCLE	TOTAL (AC)		CYCLES	AC/CYCLE	TOTAL (AC)					
		P	F	P	F			P	F									
ALL PHASES	197+00.00 TO 458+59.29		LT/RT	327888.9	1200	30	40	52.950	2118.00									
ALL PHASES	197+00.00 TO 458+59.29		LT/RT	277888.9	1200	30				40	42.770	1710.80						
									SUB-TOTAL:		2118.00		SUB-TOTAL:		1710.80			
									TOTAL:		2118.00 AC		TOTAL:		1710.80 AC			

Do not list the Area ID as a range. Each area/location should be listed in the summary box.

SUMMARY OF LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION STA. TO STA.	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
					AREA ID	CYCLES	AREA		AREA ID	CYCLES	AREA					
							AC/CYCLE	TOTAL (AC)			AC/CYCLE	TOTAL (AC)				
													P	F		
ALL	248+48.96-328+95	LT/RT	160	30	41977 to 43103	6	14.300	85.800		49146 to 52760	6	5.100	30.600			
SUB-TOTAL:								85.800		SUB-TOTAL:					30.600	
TOTAL:								85.80		TOTAL:					30.60	



**Incorrect:**

Do not add/change columns. Place an "X" in the appropriate column(s) for the type of monitoring to be completed. Address goes under the Location. Unused pay item column should be removed.

Do not remove Total rows at the bottom of the summary box. Total should reflect 1LS for each applicable pay item.

SUMMARY OF MONITOR EXISTING STRUCTURES												
SITE NO.	LOCATION		STRUCTURE USAGE	INSPECTION & SETTLEMENT MONITORING		VIBRATION MONITORING		GROUNDWATER MONITORING		DESIGN NOTES	ADDRESS	STRUCTURE TYPE
				0108 1		0108 2		0108 3				
	LS			LS		LS						
	P	F		P	F	P	F					
	1313+50	LEFT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2256 W NINE MILE RD	
	1316+00	RIGHT	PHARMACY			1				MONITOR DURING ROADWAY COMPACTION	2237 W NINE MILE RD	
	1337+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	400 MILESTONE BLVD	
	1340+50	LEFT	DENTISTRY			1				MONITOR DURING ROADWAY COMPACTION	35 NEWPORT ST	
	1347+50	LEFT	MEDICAL			1				MONITOR DURING ROADWAY COMPACTION	185 CROSSVILLE ST	
	1350+00	LEFT	ASSISTED LIVING			1				MONITOR DURING ROADWAY COMPACTION	150 CROSSVILLE ST	
	1385+50	RIGHT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1251 W NINE MILE RD	
	1388+50	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1144 W NINE MILE RD	
	1394+00	LEFT	CHURCH			1				MONITOR DURING ROADWAY COMPACTION	1101 W NINE MILE RD	
	1416+50	LEFT	VETERINARY CLINIC			1				MONITOR DURING ROADWAY COMPACTION	550 W NINE MILE RD	
	1420+00	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	535 W NINE MILE RD	
	1422+50	RIGHT	RESTAURANT			1				MONITOR DURING DEEP EXCAVATION	529 W NINE MILE RD	
	1422+50	LEFT	CHIROPRACTOR			1				MONITOR DURING ROADWAY COMPACTION	410 W NINE MILE RD	
	15+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9106 UNTREINER AVE	
	15+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9107 UNTREINER AVE	
	17+50	LEFT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9111 UNTREINER AVE	
	18+50	RIGHT	RV PARK			1				MONITOR DURING SHEETPILE WALL INSTALL.	9110 UNTREINER AVE	
	20+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9112 UNTREINER AVE	
	21+50	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9250 UNTREINER AVE	
	22+00	LEFT	RETAIL			1				MONITOR DURING SHEETPILE WALL INSTALL.	541 W NINE MILE RD	
	23+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9270 UNTREINER AVE	
	24+00	RIGHT	RESIDENTIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9295 UNTREINER AVE	
	26+00	RIGHT	INDUSTRIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	9320 UNTREINER AVE	
	27+00	RIGHT	RETAIL SERVICE			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #1	
	27+50	RIGHT	CHURCH			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD #3	
	28+50	RIGHT	COMMERCIAL			1				MONITOR DURING SHEETPILE WALL INSTALL.	301 W NINE MILE RD # 2	

10. Summary of Clearing and Grubbing & Removal Items

[Instructions](#); [Return to Summary Box List](#)

**Correct:** Shown below, with 110-4- pay item and old title, prior to July 2017 implementation of new Section 110 specification.

SUMMARY OF REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	SECONDARY UNITS (IF LUMP SUM)		QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				AREA (AC)	P	F	P	F			
0110 1 1	CLEARING AND GRUBBING	963+61.19	TO 963+61.19	RT	21748	LS	0.810						1.76 TOTAL AC	
		963+80.76	TO 963+80.76	LT	21821		0.950							
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	964+14.59	TO 964+28.34	RT	20703	SY			7.2		269			
		964+70.49	TO 967+09.85	LT	20696				195.9					
		965+23.57	TO 965+93.41	RT	20707					56.8				
		966+73.63	TO 966+84.28	RT	20713					8.7				

Shown below, with 110-4-10 pay item, after July 2017 implementation of new Section 110 specification, with type of concrete to be removed identified in the Design Notes Column. Similar types of concrete may be sorted together, i.e. all sidewalk, all Retaining Walls.

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNITS	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.				P	F	P	F		
0110 4 10	REMOVAL OF EXISTING CONCRETE	700+71.00	TO 703+71.00	RT	19624	SY	134.0		1640		TRAFFIC SEPARATOR	
		701+34.00	TO 705+70.99	LT	19434		291.3				SIDEWALK	
		701+38.50	TO 702+16.58	LT	19634		43.4				GRAVITY WALL	
		703+52.34	TO 708+36.74	RT	19635		233.9				RETAINING WALL	
		705+70.99	TO 712+37.08	RT	18843		421.9				SIDEWALK	
		705+70.99	TO 712+37.08	LT	18838		466.2				SIDEWALK	
		713+25.23	TO 714+35.97	LT	19629		49.2				TRAFFIC SEPARATOR	

**Incorrect:**

Do not create “custom” summary boxes for Tree Protection or Clearing & Grubbing- Tree Removal.

SUMMARY OF TREE PROTECTION						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
218+49.48	LT	8"	1			
219+01.96	RT	9"	1			
221+18.05	LT	12"	1			
231+89.34	LT	14"	1			
232+62.43	LT	24"	1		MULTI TRUNK	
234+42.82	LT	30"	1			
236+17.95	LT	12"	1			
236+66.12	LT	13"	1			
237+28.29	LT	11"	1			
237+72.52	LT	12"	1			
238+17.70	LT	12"	1			
238+62.29	LT	12"	1			
239+13.94	LT	24"	1		MULTI TRUNK	
239+59.50	LT	14"	1			
241+11.71	LT	13"	1			
241+58.12	LT	10"	1			
253+71.78	LT	10"	1			
254+44.06	LT	14"	1			
255+37.07	LT	16"	1			
SUB-TOTAL:			19			

SUMMARY OF TREE PROTECTION (CONTINUED)						
LOCATION		TREE CALIPER	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
STATION	SIDE		P	F		
			EA	EA		
256+19.29	LT	12"	1			
256+76.00	LT	14"	1			
257+27.66	LT	13"	1			
258+30.50	LT	15"	1			
258+66.32	RT	12"	1			
258+84.24	RT	10"	1			
259+02.26	RT	9"	1			
259+03.80	LT	14"	1			
259+20.42	RT	12"	1			
260+73.10	LT	20"	1			
261+09.88	LT	14"	1			
261+47.11	LT	12"	1			
261+83.70	LT	12"	1			
262+22.98	LT	12"	1			
262+65.95	LT	18"	1			
263+04.34	LT	14"	1			
263+43.12	LT	13"	1			
SUB-TOTAL:			17			
FINAL TOTAL:			36			COST OF TREE PROTECTION TO BE INCLUDED UNDER CLEARING AND GRUBBING (110-1-1)

Guardrail Removal belongs on the Summary of Guardrail.

SUMMARY OF REMOVAL ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNITS	QUANTITY		TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F	
0536 73	GUARDRAIL REMOVAL	1425+32.01 R2 to 1426+67.99 R2	RT	LF	148.0		392		
		1425+67.65 R2 to 1427+30.09 R2	LT		164.0				
		1446+30.99 R3 to 1446+69.54 R3	RT		80.0				

### 11. Summary of Mailboxes

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
108+11.51	LT.	1			
109+78.56	LT.	1			
154+13.18	RT.	1			
155+42.04	RT.	1			
155+46.49	RT.	1			
184+45.26	LT.	1			
256+66.95	RT.	1			
256+67.26	RT.	1			
256+67.99	RT.	1			
256+68.14	RT.	1			
256+68.64	RT.	1			
256+69.20	RT.	1			
256+70.17	RT.	1			
294+31.30	RT.	1			
SUB-TOTAL:		14			
TOTAL:		14			

Incorrect:

## 12. Summary of Earthwork

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF EARTHWORK				
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		CONSTRUCTION REMARKS
		P	F	
0120- 1-	REGULAR EXCAVATION			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	25545.00		
	MAINLINE (SR 45A) STA. 1462+50.00 TO 1468+60.00 (FOR MEDIAN N OF BIRD BAY)	343.00		
	GROVELAND AVE.	175.00		
	LAUREL AVE.	27.00		
	CYPRESS AVE.	299.00		
	VENICE AVE.	42.00		
	RIDGEWOOD AVE	37.00		
	SNF C	6780.00		
	SNF D	10031.00		
	TOTAL REGULAR EXCAVATION	43279.00		
0120- 6-	EMBANKMENT			
	MAINLINE (SR 45A) STA. 1401+79.59 TO 1461+87.37	12014.00		
	GROVELAND AVE.	28.00		
	LAUREL AVE.	1.00		
	CYPRESS AVE.	0.00		
	VENICE AVE.	34.00		
	RIDGEWOOD AVE	4.00		
	SNF C	3652.00		
	SNF D	5181.00		
	TOTAL EMBANKMENT	20914.00		

Incorrect:

SUMMARY OF EARTHWORK							
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY (CY)		TOTAL (CY)		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F	P	F		
0120 1	REGULAR EXCAVATION			572.00			
		572.00				12TH AVENUE	
0120 6	EMBANKMENT			4463.00			
		4463.00				12TH AVENUE	

Earthwork has been calculated using the Limerock base option.  
If another option is constructed, there shall be no revision to the earthwork quantities for which payment is made by Plan Quantity.

Do NOT create supplemental summary boxes to define the work.

SUMMARY OF EARTHWORK				
STREET NAME		DESCRIPTION	CY	
			P	F
MAINLINE NW 7TH Avenue	EXCAVATION	68+60.00 TO 70+70.00 (SEE CROSS SECTIONS)	26439	
	EMBANKMENT	68+60.00 TO 70+70.00 (SEE CROSS SECTIONS)	239	
SUBTOTAL (NW 9th Street)	EXCAVATION	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	152	
	EMBANKMENT	8+86.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 10th Street)	EXCAVATION	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	228	
	EMBANKMENT	9+10.00 TO 10+85.00 (SEE CROSS SECTIONS)	5	
SUBTOTAL (NW 11th Street)	EXCAVATION	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	126	
	EMBANKMENT	8+65.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 11th Street) E	EXCAVATION	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	294	
	EMBANKMENT	10+25.00 TO 11+45.78 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 12th Street) W	EXCAVATION	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	120	
	EMBANKMENT	8+95.00 TO 9+74.97 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) W	EXCAVATION	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	95	
	EMBANKMENT	9+24.00 TO 9+75.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 13th Street) E	EXCAVATION	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	136	
	EMBANKMENT	10+25.00 TO 11+00.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 14th Street) W	EXCAVATION	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	91	
	EMBANKMENT	9+01.00 TO 9+75.39 (SEE CROSS SECTIONS)	7	
SUBTOTAL (NW 14th Street) E	EXCAVATION	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	232	
	EMBANKMENT	10+25.45 TO 10+93.00 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) W	EXCAVATION	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	156	
	EMBANKMENT	8+00.00 TO 9+75.15 (SEE CROSS SECTIONS)	0	
SUBTOTAL (NW 15th Street) E	EXCAVATION	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	144	
	EMBANKMENT	10+24.98 TO 10+85.00 (SEE CROSS SECTIONS)	0	
		SUBTOTAL EXCAVATION	28213	
		SUBTOTAL EMBANKMENT	251	

**13. Summary of Geotechnical Items**

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

SUMMARY OF GEOTECHNICAL ITEMS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	83+36.00	to 91+20.00	LT	SY	2367		2367			

**Incorrect:**

## 14. Summary of Turnouts

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

### 15. Summary of Pavement

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

The street name, ramp designation, “northbound mainline”, or “median”, etc. may be added to the location description column, to provide additional clarity.

*Requested: Need a correct example that includes overbuild, with detailed quantity calculations. Need an example that includes driveway(s).*

SUMMARY OF PAVEMENT												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0160 4	TYPE B STABILIZATION	60+41.48 to 66+99.00		LT/RT	35797	SY	5480.10		8988.0			
		66+99.00 to 67+13.25		LT/RT	35843		113.50					
		68+30.75 to 68+45.00		LT/RT	35838		113.30					
		68+44.96 to 72+61.48		LT/RT	35821		3281.20					
285706	OPTIONAL BASE, BASE GROUP 06	60+41.48 to 66+99.00		LT/RT	35918	SY	5117.80		8414.0			
		66+99.00 to 67+13.25		LT/RT	35911		113.50					
		68+30.75 to 68+45.00		LT/RT	35906		113.30					
		68+45.00 to 72+61.48		LT/RT	35937		3069.20					
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	56+17.45 to 60+41.48		LT/RT	7169	SY	2992.80		6400.0			
		72+61.48 to 77+49.38		LT/RT	30464		3407.00					
0334 1 22	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B, PG 76-22, PMA)	60+41.48 to 66+99.00		LT/RT	36019	TN	844.44		1379.1			
		66+99.00 to 67+12.04		LT/RT	40825		7.07					
		66+99.00 to 67+12.04		LT	40817		7.07					
		68+31.96 to 68+45.00		RT	41532		7.05					
		68+31.96 to 68+45.00		LT	41539		7.05					
		68+45.00 to 72+61.48		LT/RT	36036		506.42					
0337 7 40	ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC B, FC-9.5, PG 76-22, PMA)	56+17.45 to 60+41.48		LT/RT	36118	TN	164.61		811.7			
		60+41.48 to 66+99.00		LT/RT	36063		281.48					
		66+99.00 to 67+12.04		LT	40886		2.36					
		66+99.00 to 67+12.04		RT	40873		2.36					
		68+31.96 to 68+45.00		RT	41561		2.35					
		68+31.96 to 68+45.00		LT	41552		2.35					
		68+45.00 to 72+61.48		LT/RT	36080		168.81					
		72+61.48 to 77+49.38		LT/RT	36089		187.39					

SUMMARY OF PAVEMENT											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F	
0327 70 16	MILLING EXIST ASPH PAVT, 1/2" AVG DEPTH	138+22.48 R 2 TO 150+90.15 R 2	RAMP B OUTER SHOULDER	LT	40903	SY	1625.8		8329		
		138+24.79 R 2 TO 151+10.81 R 2	RAMP B INNER SHOULDER	LT	40904		397.0				
		138+55.26 R 2 TO 151+18.03 R 2	RAMP A OUTER SHOULDER	RT	40908		1573.0				
		138+58.34 R 2 TO 151+27.21 R 2	RAMP A INNER SHOULDER	RT	40907		352.2				
		151+88.35 R 2 TO 164+36.60 R 2	RAMP C INNER SHOULDER	LT	40905		490.0				
		152+04.09 R 2 TO 165+54.22 R 2	RAMP D INNER SHOULDER	RT	40910		520.8				
		152+24.95 R 2 TO 164+39.53 R 2	RAMP C OUTER SHOULDER	LT	40906		1662.3				
		152+51.23 R 2 TO 165+55.60 R 2	RAMP D OUTER SHOULDER	RT	40909		1707.7				
0334 1 12	SUPERPAVE ASPH CONC, TRAFFIC B	99+99.41 R 2 TO 132+56.66 R 2	OUTSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	41133	TN	276.44		4514.0		
		99+99.41 R 2 TO 128+16.69 R 2		LT	41169		226.24				
		128+16.67 R 2 TO 138+23.25 R 2		LT	41137		74.35				
		132+55.69 R 2 TO 138+56.49 R 2		RT	41142		52.64				
		138+24.79 R 2 TO 150+25.61 R 2		LT	41341		92.13				
		138+58.32 R 2 TO 150+28.02 R 2		RT	41347		106.07				
		152+68.22 R 2 TO 164+40.58 R 2		LT	41404		86.12				
		152+70.73 R 2 TO 165+54.44 R 2		RT	41376		88.64				
		164+38.58 R 2 TO 214+01.25 R 2		LT	41319		404.33				
		165+55.12 R 2 TO 214+21.15 R 2		RT	41146		413.65				
		218+56.05 R 2 TO 364+18.77 R 3		LT	41153		1266.00				
		219+30.79 R 2 TO 364+18.80 R 3		RT	41162		1227.3				
		99+99.41 R 2 TO 364+18.80 R 3		RT			60.5				
		99+99.41 R 2 TO 364+18.80 R 3		LT			139.6				
0334 1 22	SUPERPAVE ASPH CONC, TRAFFIC B, PG76-22, PMA	322+44.93 R 3 TO 325+59.59 R 3	PERMANENT CROSSOVER	LT/RT	52755	TN	53.00		53.0		
0334 1 23	SUPERPAVE ASPH CONC, TRAFFIC C, PG76-22, PMA	138+23.48 R 2 TO 151+08.86 R 2	RAMP B TRAVEL LANE	LT	42698	TN	253.53		1070.4		
		138+56.49 R 2 TO 151+36.99 R 2	RAMP A TRAVEL LANE	RT	42712		273.41				
		151+87.95 R 2 TO 164+38.39 R 2	RAMP C TRAVEL LANE	LT	42723		273.18				
		152+05.81 R 2 TO 165+55.00 R 2	RAMP D TRAVEL LANE	RT	42688		270.27				
0334 1 34	SUPERPAVE ASPH CONC, TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.92 R 2	INSIDE SHOULDERS OF MAIN TRAVEL LANES	RT	46488	TN	204.70		1803.8		
		99+99.41 R 2 TO 150+25.63 R 2		LT	46521		166.80				
		152+68.43 R 2 TO 214+21.21 R 2		LT	46496		238.90				
		152+70.27 R 2 TO 214+21.11 R 2		RT	46502		223.70				
		218+55.80 R 2 TO 364+18.78 R 2		LT	46509		491.70				
		219+30.92 R 2 TO 364+18.80 R 2		RT	46516		478.00				
0334 1 34	SUPERPAVE ASPH CONC, TRAFFIC D, PG82-22, PMA	99+99.41 R 2 TO 150+28.74 R 2	MAIN TRAVEL LANES	RT	43530	TN	1754.40		17323.4		
		99+99.41 R 2 TO 150+25.62 R 2		LT	43543		1811.50				
		152+68.39 R 2 TO 214+01.26 R 2		LT	43557		2069.70				
		152+70.37 R 2 TO 214+21.07 R 2		RT	43522		2196.20				
		218+55.82 R 2 TO 364+18.78 R 2		LT	43483		4607.40				
		219+30.82 R 2 TO 364+18.80 R 2		RT	43488		4625.00				
		99+99.41 R 2 TO 364+18.80 R 3		RT			119.6				
		99+99.41 R 2 TO 364+18.80 R 3		LT			139.6				

**Incorrect:**

Do not add columns (Volume in this example). Do not create a separate summary box. Keep the 334 quantities together and notate the quantity as Overbuild in the Design Notes column.

SUMMARY OF PAVEMENT (OVERBUILD)												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		AREA	VOLUME	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, (OVERBUILD)	85+00.00		0.46		TN			*		*326.2 TN INCLUDED IN	
		85+50.00		1.46	47.9		4				SUMMARY OF PAVEMENT	
		86+00.00		2.18	90.9		7				0.334 1 13	
		86+50.00		2.48	116.4		9					
		87+00.00		2.80	132.0		10					
		87+50.00		3.55	158.8		12					
		88+00.00			88.7		7					
		92+40.00		7.14								
		92+50.00		7.14	71.4		5					
		93+00.00		7.14	178.4		13					
		93+00.00		33.37								
		93+33.00		33.37	1101.2		81					
		93+33.00		17.24								
		93+50.00		17.24	293.0		21					
		94+00.00		4.46	542.5		40					
		101+00.00		12.61								
		101+50.00		7.48	502.3		37					
		102+00.00		9.16	416.0		31					
		102+50.00		4.66	345.5		25					
		103+00.00		3.91	214.1		16					
		103+50.00		1.38	132.2		10					
		103+74.48			16.9		1					

### 16. Summary of Miscellaneous Asphalt Pavement

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT									
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	MEDIAN PAVEMENT (TN)		DESIGN NOTES	CONSTRUCTION REMARKS
						0339	1		
						P	F		
1450+72.58 R3 to 1450+79.81 R3	LT	146055			2	0.24			
1452+13.26 R3 to 1452+18.26 R3	RT	120216			2	0.44			
1455+98.24 R3 to 1456+05.77 R3	LT	120210			2	0.32			
1456+28.91 R3 to 1456+36.20 R3	RT	120205			2	0.24			
1461+69.67 R3 to 1461+77.00 R3	LT	120200			2	0.35			
1462+59.20 R3 to 1462+65.03 R3	LT/RT	120195			2	0.44			
SUB-TOTAL:						2.0			
TOTAL:						2.0			

Incorrect:

Location information (including the Area ID or length/width of quantified area) shall be included in the summary box. There should not be a reference to the plans for the information.

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT						
LOCATION STA. TO STA.	SIDE	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
			0339	1 (TN)		
			P	F		
92+20.66 TO 96+78.16	LT	2	7.62		**	
92+85.29 TO 94+24.51	RT	2	3.69		**	
94+70.70 TO 96+90.70	RT	2	3.66		**	
SUB-TOTAL:			14.97			
TOTAL:			14.97			

\*\* NOTE: REFER TO PLANS FOR MISCELLANEOUS ASPHALT PAVEMENT WIDTH.

**17. Summary of Structures Quantities, Bridge XXXXXX**

**[Instructions](#); [Return to Summary Box List](#)**

**Correct:**

**Incorrect:**

**18. Summary of Box Culverts**

[Instructions; Return to Summary Box List](#)

**Correct:** This summary box is normally used for box culverts less than 20'. Box Culverts over 20' are defined as bridge culverts, and should use the Summary of Structures Quantities, along with the Bridge number.

NOTE: If there are no structures component plans (box culvert shown in Roadway), either summary box may be used; note the bridge number in the Design Notes column; all other details are the same on both summary boxes.

SUMMARY OF BOX CULVERTS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STATION		P	F	P	F		
0400 4 1	CONCRETE CLASS IV, CULVERTS	1426+00.00 R2	CY	459.00		491.2		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		32.20				SEE BOX CULVERT DATA SHEETS	
0415 1 1	REINF STEEL-ROADWAY	1426+00.00 R2	LB	127250.89		135637.1		SEE BOX CULVERT DATA SHEETS	
		1448+00.00 R3		8386.22				SEE BOX CULVERT DATA SHEETS	

**Incorrect:**

19. Summary of Walls

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

*Requested: Need a correct example with Wall No. column.*

SUMMARY OF WALLS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL	63+75.00	- 65+38.99	RT	CY	60.5		175.5		5.5' AVG. HEIGHT	
		65+44.65	- 65+88.50	RT		16.2				5.5' AVG. HEIGHT	
		65+93.83	- 66+78.00	RT		31.1				5.5' AVG. HEIGHT	
		69+02.00	- 70+00.00	LT		21.8				4.0' AVG. HEIGHT	
		68+45.00	- 69+90.00	RT		45.9				5.0' AVG. HEIGHT	

**Incorrect:**

Do NOT rename the summary box.

SUMMARY OF RETAINING WALL											
WALL NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		CONSTRUCTION REMARKS
			STA.	TO STA.			P	F	P	F	
1	0400 4 11	CONCRETE CLASS IV, RETAINING WALLS	1412+98.62	1418+10.78	LT	CY	281.5		282		
	0415 1 3	REINFORCING STEEL - RETAINING WALL	1412+98.62	1418+10.78	LT	LB	25722.0		25722		

## 20. Summary of Utility Adjustments

[Instructions](#); [Return to Summary Box List](#)

### Correct:

Quantities separated for each included project.

*Note: Total column formatting could remain without merged cells, with the total shown at the top. When cells are merged, use top justification, so the total remains at the top of the cell.*

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425 5	ADJUST FOOT MANHOLES	74+50.54	RT	EA	1.0				Baseline Survey SR 953	
		75+73.35	RT	EA	1.0				Baseline Survey SR 953	
		77+49.35	RT	EA	1.0				Baseline Survey SR 953	
		91+17.35	LT	EA	1.0				Baseline Survey SR 953	
		93+65.93	LT	EA	1.0				Baseline Survey SR 953	
		95+53.08	LT	EA	1.0				Baseline Survey SR 953	
		96+54.32	LT	EA	1.0				Baseline Survey SR 953	
		98+69.99	LT	EA	1.0				Baseline Survey SR 953	
		16+20.60	LT	EA	1.0				Baseline Survey Alhambra Circle	
		16+67.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
								10		

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425 6	START-DATE WATER VALVE ADJUSTMENTS*	94+17.72	LT	EA	1.0				Baseline Survey SR 953	
		94+25.24	LT	EA	1.0				Baseline Survey SR 953	
		94+37.72	LT	EA	1.0				Baseline Survey SR 953	
		94+77.59	LT	EA	1.0				Baseline Survey SR 953	
		94+75.94	LT	EA	1.0				Baseline Survey SR 953	
		14+57.20	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+70.45	LT	EA	1.0				Baseline Survey Alhambra Circle	
		14+76.28	LT	EA	1.0				Baseline Survey Alhambra Circle	
		15+93.29	LT	EA	1.0				Baseline Survey Alhambra Circle	
		16+53.49	LT	EA	1.0				Baseline Survey Alhambra Circle	
		16+55.94	LT	EA	1.0				Baseline Survey Alhambra Circle	
								11		

### Incorrect:

Do not include offset information with location/station.

SUMMARY OF UTILITY ADJUSTMENTS										
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0425-5-	MANHOLES, ADJUST	9+41.59 (10.17' RT)	RT	EA	1.0		1.0		NW 14TH ST	
		66+69.60 (22.69' LT)	RT	EA	1.0		1.0		NW 7TH AVE	
		66+70.81 (9.47' RT)	RT	EA	1.0		1.0		NW 7TH AVE	
		67+29.17 (22.83' RT)	RT	EA	1.0		1.0		NW 7TH AVE	
		67+62.10 (6.82' LT)	RT	EA	1.0		1.0		NW 7TH AVE	
							5.0			
								5.0		

## 21. Summary of Sidedrain and Mitered End Sections

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS									
LOCATION STA. TO STA.	SIDE	PIPE LENGTH - LF			MES - EA			DESIGN NOTES	CONSTRUCTION REMARKS
		ROUND			ROUND				
		18"	24"	30"	18"	24"	30"		
169+30.00 to 169+30.00	RT	171.0			1			INDRIO	
301+70.00 to 301+70.00	LT		68.0			1		INDRIO	
304+49.97 to 304+49.97	LT	43.0			1			INDRIO	
304+92.32 to 304+92.32	LT				1			INDRIO	
316+30.00 to 316+30.00	RT			139.0			1	JOHNSTON	
SUB-TOTAL:		214.0	68.0	139.0	3	1	1		
TOTAL:		214	68	139	3	1	1		

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS											
LOCATION STA. TO STA.		SIDE	PIPE LENGTH - LF				MES - EA		PERF. TURF (SOD) SY	DESIGN NOTES	CONSTRUCTION REMARKS
			BACK		AHEAD		ROUND				
			OFFSET	£	OFFSET	£	18"	24"			
128+91.16 to 129+31.67		RT	60.45	202.00	59.75	201.50	22.0		2		18
131+29.95 to 132+09.37		RT	59.49	199.60	59.42	199.40		57.0		2	20
135+85.16 to 136+69.46		RT	59.50	198.40	59.11	197.90		62.0		2	20
139+22.73 to 140+24.88		RT	61.26	197.60	60.34	197.40		80.0		2	20
235+67.20 to 236+24.37		RT	71.40	146.90	68.68	145.80		35.0		2	20
264+87.75 to 266+67.27		RT	73.73	138.60	72.54	139.60	162.0		2		18
SUB-TOTAL:						184.0	234.0	4	8		116
TOTAL:						184	234	4	8		116

**Incorrect:**

Structure number should be notated in the Design Notes column. Location column should include the station.

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS					
LOCATION STA. TO STA.	SIDE	PIPE LENGTH - LF	MES - EA	DESIGN NOTES	CONSTRUCTION REMARKS
		18" ROUND	18" ROUND		
440+28.46 TO 440+98.92	LT	52.0			
S-1	LT			1	
449+25.43 TO 449+33.43	LT	8.0			
449+73.45 TO 449+81.45	LT	8.0			
S-2	LT			1	
SUB-TOTAL:		68.0		2	
TOTAL:		68		2	



## 22. Summary of Miscellaneous Drainage Items

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

**Incorrect:**

Do NOT repeat the pay item number, description, unit, or total. These should only be on the FIRST row where the pay item is list in the summary box. The total should include the accumulated total for all of the values in the Quantity column and shown only on the fir FIRST row where the pay item is list in the summary box.

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY	TOTAL		CONSTRUCTION REMARKS
		STA. TO STA.				P	F	
425-10	YARD DRAINS	1409+75.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1411+65.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1414+54.00 R2	RT	EA	1.0	1		
425-10	YARD DRAINS	1416+80.00 R2	RT	EA	1.0	1		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1409+77.00 R2 to 1411+01.25 R2	RT	LF	150.0	150		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1411+35.06 R2 to 1411+64.00 R2	RT	LF	50.0	50		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1414+55.00 R2 to 1414+72.36 R2	RT	LF	37.0	37		
430-175-115	PIPE CULVERT OPT MAT, ROUND, 15", S/CD	1415+05.98 R2 to 1416+78.00 R2	RT	LF	192.0	192		

Do NOT change the name or create a new summary box. This quantity should be included on the Summary of Miscellaneous Drainage, Summary of Concrete Box Culverts, or on the Summary of Drainage Structures Sheets.

SUMMARY OF DESILTING									
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
				P	F	P	F		
0430 950	DESILTING CONCRETE BOX CULVERT	LT/RT	CY	145.8		198		TRIPLE CULVERT @ STA. 1426+10	
		LT/RT		52.6				DOUBLE CULVERT @ STA. 1447+95	

Do not include the Summary of Drainage Structures on the Summary of Quantity sheets. They belong on their own sheets. If there is only minor work, use the Summary of Miscellaneous Drainage Items.



### 23. Summary of Trench Drain

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

Note: This box is correct; however, there is a newer version of the Summary Box template available.

<b>SUMMARY OF TRENCH DRAIN</b>			
<b>LOCATION</b>	<b>SIDE</b>	<b>TRENCH DRAIN (STANDARD)</b>	<b>CONSTRUCTION REMARKS</b>
<b>STA. TO STA.</b>		<b>0436 1 1</b>	
		<b>LF</b>	
1424+03.12 R2 to 1425+61.43 R2	RT	159.0	
1431+19.43 R3 to 1431+29.43 R3	LT	10.0	
1432+22.42 R3 to 1432+32.42 R3	LT	10.0	
1443+78.16 R3 to 1443+88.16 R3	LT	10.0	
<b>SUB-TOTAL:</b>		<b>189.0</b>	
<b>PLAN TOTAL:</b>		<b>189</b>	
<b>FINAL TOTAL:</b>			

**Incorrect:**

## 24. Summary of Underdrain

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF UNDERDRAIN										
LOCATION  STA. TO STA.	SIDE	UNDERDRAIN TYPE II		UNDERDRAIN TYPE V		OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS	
		0440	1 20	0440	1 50	0440	73 1			
		(LF)		(LF)		4" (LF)				
		P	F	P	F	P	F			
1161+51.49 TO 1162+24.95	LT		74.0						RAMP B1	
1162+27.53 TO 1164+48.47	LT		222.3						RAMP B1	
1164+51.53 TO 1165+29.01	LT		78.0						RAMP B1	
1165+30.99 TO 1167+78.00	LT		248.5						RAMP B1	
1167+78.00 TO 1170+22.31	LT		245.8						RAMP B1	
1170+35.79 TO 1171+97.97	LT		163.0						RAMP B1	
1172+02.03 TO 1173+50.00	LT		148.7						RAMP B1	
1173+50.00 TO 1174+97.97	LT		148.7						RAMP B1	
1175+02.03 TO 1175+75.00	LT		73.3						RAMP B1	
1175+75.00 TO 1176+47.97	LT		73.3						RAMP B1	
1176+52.03 TO 1177+99.32	LT		148.0						RAMP B1	
1179+28.07 TO 1179+47.97	LT		20.0						RAMP B1	
1181+58.29 TO 1181+78.25	LT		20.0						RAMP B1	
1183+62.13 TO 1183+82.13	LT		20.0						RAMP B1	
1183+85.63 TO 1184+05.63	LT		20.0						RAMP B1	
1194+26.99 TO 1194+76.71	LT				50.0				RAMP B1	
1375+83.93 TO 1376+97.73	RT				230.0				RAMP D	
1745+60.38 TO 1747+84.71	RT				225.0				BL 175	
1748+13.81 TO 1750+38.14	RT				225.0				BL 175	
1756+14.65 TO 1756+83.18	RT				70.3				BL 175	
1758+01.30 TO 1758+49.02	RT				48.9				BL 175	
1758+49.02 TO 1759+29.15	RT				82.2				BL 175	
1762+99.94 TO 1764+74.99	RT				185.0				BL 175	
1764+99.99 TO 1766+50.00	RT				160.0				BL 175	
1766+50.00 TO 1767+99.97	RT				150.0				BL 175	
1194+76.71 TO 1194+86.09	LT						15.6		RAMP B1	
1376+97.73 TO 1377+68.93	RT						70.0		RAMP D	
1747+84.71 TO 1747+99.41	RT						20.8		BL 175	
1747+99.41 TO 1748+13.81	RT						20.5		BL 175	
1756+83.18 TO 1756+95.50	RT						12.7		BL 175	
1764+20.09 TO 1764+20.73	RT						35.0		BL 175	
1766+78.10 TO 1766+78.23	RT						34.5		BL 175	
SUB-TOTAL			1703.6		1426.4		209.1			
TOTAL			1704		1427		210			

Incorrect:

Remove unused/blank columns.

SUMMARY OF UNDERDRAIN										
LOCATION  STA. TO STA.	SIDE					OUTLET PIPE		DESIGN NOTES	CONSTRUCTION REMARKS	
						0440	73 1			
						6" (LF)				
		P	F	P	F	P	F			
118+90.36	RT								1.25	
119+20.35	RT								1.25	
SUB-TOTAL									2.50	
TOTAL									2.50	



## 25. Summary of French Drain

[Instructions](#); [Return to Summary Box List](#)

Correct:

Incorrect:

26. Summary of Edgedrain

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF EDGEDRAIN							
LOCATION	SIDE	EDGEDRAIN		OUTLET PIPE LENGTH		DESIGN NOTES	CONSTRUCTION REMARKS
		0446	1 1	0446	71 1		
STA. TO STA.		4" (LF)		4" (LF)			
		P	F	P	F		
1762+00.00 to 1767+00.00	RT	500.0					
1767+00.00 to 1772+00.00	RT	500.0					
1772+00.00 to 1775+00.00	RT	300.0					
1775+18.00 to 1780+00.00	RT	482.0					
1780+00.00 to 1783+00.00	RT	300.0					
1783+00.00 to 1788+00.00	RT	500.0					
1788+00.00 to 1793+00.00	RT	500.0					
1793+00.00 to 1797+46.00	RT	446.0					
1767+00.00 to 1767+08.50	RT			26.7			
1772+00.00 to 1772+08.50	RT			31.6			
1775+00.00 to 1775+08.50	RT			30.7			
1775+09.50 to 1775+18.00	RT			30.7			
1779+91.50 to 1780+00.00	RT			24.0			
1782+91.50 to 1783+00.00	RT			23.5			
1787+91.50 to 1788+00.00	RT			30.0			
1792+95.08 to 1793+00.00	RT			22.3			
	SUB-TOTAL:	3528.0		219.3			
	TOTAL:	3528		220			

Incorrect:



**28. Summary of Permanent Barrier Wall**

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

SUMMARY OF PERMANENT BARRIER WALL											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0521 1	MEDIAN CONCRETE BARRIER WALL,	1352+40.00	to 1360+99.97		LF	860.0		1000			
	CAST IN PLACE	1360+99.97	to 1362+15.37			115.6					
		1362+15.37	to 1362+39.91	LT		24.6					
0521 72 3	SHOULDER CONCRETE BARRIER WALL,	1447+50.57	to 1454+35.03	RT	LF	692.5		2037			
	RIGID-SHOULDER	1456+97.27	to 1464+20.00	RT		722.7					
		1457+53.98	to 1463+76.08	LT		622.1					
0521 72 10	SHOULDER CONCRETE BARRIER WALL,	432+81.61	to 434+03.17	RT	LF	121.6		243			
	RIGID SHOULDER 42"	434+03.17	to 434+03.17	RT		121.6					

**Incorrect:**



Do NOT repeat total quantity in every summary box when it continues to the next sheet. The total should ONLY be on the FIRST summary box in the FIRST row (not centered or justified to the bottom of a merged cell) where the pay item is introduced to a box.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
						GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
							TYPE	LENGTH	P	F				
0520-1-10	CONCRETE CURB & GUTTER, TYPE F (CONT'D)	80+69.80 to 80+74.16	RT	67251	LF	8.50								
		81+14.47 to 81+38.83	RT	67223		33.60								
		81+38.83 to 83+29.91	RT	67230		191.10								
		82+98.91 to 83+11.91	LT	67204		20.50								
		82+98.91 to 83+11.91	LT	67463		20.50								
		83+11.47 to 83+11.91	LT	67170		67.00								
		83+29.91 to 86+24.59	RT	67224		294.70								
		83+37.89 to 83+38.00	LT	67185		65.10								
		83+38.00 to 83+53.00	LT	67206		23.60								
		83+53.00 to 86+61.50	LT	67205		308.50								
		86+24.59 to 86+54.59	RT	67253		47.00								
		86+54.59 to 86+54.89	RT	67228		45.30								
		86+61.50 to 86+76.50	LT	67187		23.60								
		86+76.50	LT	67163		8.70								
		86+76.50 to 86+76.63	LT	67457		27.40								
		86+90.57 to 87+20.57	RT	67254		47.20								
		86+90.57 to 86+90.68	RT	67227		45.00								
		87+06.92 to 87+41.92	LT	67186		55.00								
		87+06.92 to 87+06.93	LT	67458		15.80								
		87+20.57 to 90+86.25	RT	67226		365.70								
		87+41.92 to 90+86.51	LT	67177		344.60								
		90+86.25 to 91+16.25	RT	67236		47.50								
		90+86.51 to 91+16.51	LT	67207		47.20								
		91+15.76 to 91+16.25	RT	67234		37.80								
		91+15.76 to 91+15.83	RT	67497		22.10								
		91+16.42 to 91+16.45	LT	67461		24.80			24052.96					
		91+16.51 to 91+16.52	LT	67171		19.30								
		91+40.30 to 91+41.09	LT	67462		36.90								
		91+41.09 to 91+79.08	LT	67188		59.00								
		91+53.10 to 91+54.28	RT	67233		59.10								
		91+53.10 to 91+83.09	RT	67235		47.80								
		91+79.08 to 96+90.87	LT	67178		511.80								
		91+83.09 to 94+33.47	RT			264.26								
		94+54.57 to 97+50.27	RT			306.60								
		96+90.87 to 97+05.86	LT	67189		23.90								
		97+04.26 to 97+05.86	LT	67172		74.80								
		97+30.17 to 97+31.33	LT	67164		73.70								
		97+31.33 to 97+48.33	LT	67208		26.40								
		97+48.33 to 97+97.77	LT	67158		49.50								
		97+50.27 to 97+82.26	RT	67257		49.50								
		97+82.26 to 97+82.37	RT	67238		4.20								
		97+82.36 to 97+83.02	RT	67237		25.50								
		97+97.80 to 104+23.85	LT	67156		626.10								
		98+07.49 to 98+08.23	RT	67239		25.50								
		98+07.49	RT	67255		0.80								
		98+07.49 to 98+41.49	RT	67256		53.40								
		98+41.49 to 104+23.18	RT	67216		581.70								
		104+23.18 to 104+55.17	RT	67260		49.70								
		104+23.85 to 104+46.84	LT	67169		39.80								
		104+47.59 to 104+48.84	LT	67173		66.80								
		104+55.17 to 104+56.79	RT	67241		67.90								

Do not delete the total column for boxes that total across and then add pay items by sections with individual total rows.

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS											
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY				DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.			GROSS LENGTH	DEDUCTIONS		NET LENGTH			
						TYPE	LENGTH	P			F
520-2-2	CONCRETE CURB TYPE B	1131+61.74 TO 1131+76.90	LT	LF	40.6						
	CURB AND GUTTER B TOTAL			LF	41						
520-2-4	CONCRETE CURB TYPE D	SR 482									
		1127+96.73 TO 1128+05.85	LT	LF	17.3						
		1128+12.35 TO 1128+60.66	LT	LF	48.7						
		1128+55.74 TO 1128+71.32	LT	LF	77.8						
		1129+00.63 TO 1129+19.16	LT	LF	22.8						
		1129+03.32 TO 1129+42.38	LT	LF	48.7						
		1129+96.77 TO 1131+20.33	LT	LF	124.8						
		1127+13.87 TO 1127+13.31	RT	LF	14.0						
		INTERNATIONAL DR									
		22+10.15 TO 22+08.46	LT	LF	12.9						
		22+33.51 TO 22+40.00	LT	LF	15.0						
		26+10.66 TO 26+10.37	LT	LF	3.1						
		26+35.86 TO 26+37.50	LT	LF	6.9						
		34+35.42 TO 34+35.42	LT	LF	24.0						
		34+59.42 TO 34+59.42	LT	LF	24.0						
		35+78.34 TO 34+78.34	LT	LF	6.0						
		36+01.84 TO 36+01.84	LT	LF	6.0						
	CONCRETE CURB TYPE D TOTAL:			LF	452						
520-3	CONCRETE VALLEY GUTTER	SR 482									
		1128+55.42 TO 1129+14.73	LT	LF	59.3						
		1129+29.25 TO 1129+98.72	LT	LF	69.5						
		1131+03.88 TO 1132+35.19	LT	LF	131.3						
		1136+50.72 TO 1137+49.80	LT	LF	99.1						
		1131+28.54 TO 1132+08.88	RT	LF	80.3						
		1133+90.34 TO 1134+72.26	RT	LF	81.9						
		INTERNATIONAL DR									
		21+86.65 TO 22+57.01	LT	LF	70.4						
		25+93.03 TO 26+53.52	LT	LF	60.5						
		25+84.95 TO 26+84.72	RT	LF	99.8						
	CONCRETE VALLEY GUTTER TOTAL:			LF	752						

### 30. Summary of Sidewalk & Detectable Warnings

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

Where "back of sidewalk curb" is constructed or removed with the sidewalk, no separate payment is made. Optional: The designer may quantify these lengths, in accordance with the Design Standards, and show in the Design Notes column.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SF			
					P	F	P	F	P	F		
60+41.48 to 60+54.20	LT	17214			7.7							
60+66.80 to 61+22.56	LT	17200			36.7							
61+35.07 to 61+60.65	LT	17187			15.6							
61+72.27 to 62+15.71	LT	17173			27.5							
62+28.29 to 62+88.28	LT	17158			38.8							
63+05.72 to 63+42.22	LT	29176			20.7							
63+75.00 to 66+99.00	RT	30532			207.1							
63+88.88 to 65+93.33	LT	33222			129.4							
66+17.17 to 66+33.27	LT	33167			7.5							
66+33.27 to 66+99.00	LT	33188			37.5							
68+45.00 to 69+90.00	RT	29061			89.5							
68+45.00 to 70+74.00	LT	29042			149.4							
70+86.00 to 71+50.00	LT	14559			40.7							
71+62.00 to 71+94.22	LT	14572			20.0							
72+06.13 to 72+49.43	LT	30470			27.9							
60+44.41 to 60+76.58	LT	20121					23.9					
61+12.88 to 61+45.08	LT	20144					20.0					
61+44.54 to 61+77.46	RT	20110					24.3					
61+50.92 to 61+82.07	LT	20099					25.6					
62+05.92 to 62+38.08	LT	20133					33.4					
62+78.48 to 63+15.52	LT	30421					47.0					
65+83.01 to 66+27.09	LT	40918					111.3					
70+37.00 to 70+69.00	RT	20012					29.8					
70+64.00 to 70+96.00	LT	29245					27.7					
70+69.00 to 71+01.00	RT	20034					31.3					
71+26.50 to 71+58.50	RT	20045					29.0					
71+40.00 to 71+72.03	LT	29235					23.4					
71+84.05 to 72+16.06	LT	29224					20.6					
72+05.07 to 72+37.08	RT	35215					25.3					
63+33.50 to 63+40.88	LT	40901							13.1			
63+90.23 to 63+97.60	LT	40896							13.1			
SUB-TOTAL:						856		473		26		
TOTAL:						856		473		26		



On LS Project (optional: pay item numbers not shown)

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION  STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					SY		SF			
					P	F	P	F		
129+06.01 to 129+11.61	RT	13088			4.3				TENNESSEE AVE SE	
129+11.55 to 129+26.99	RT	13885			11.8				TENNESSEE AVE SE	
138+37.68 to 138+50.32	LT	8198			6.0				LURA AVE NW	
140+43.57 to 140+64.39	LT	13534			12.0				HURWOOD AVE SW	
141+07.15 to 141+15.93	LT	8282			1.0				HURWOOD AVE NW	
141+07.42 to 141+21.08	LT	13900			6.5				HURWOOD AVE NW	
141+43.79 to 141+49.30	LT	13081			3.1				HURWOOD AVE NW	
141+49.30 to 141+62.30	LT	13078			7.5				HURWOOD AVE NW	
141+62.29 to 141+79.41	LT	13024			8.0				HURWOOD AVE NW	
113+67.00 to 113+81.47	RT	13727					23.6		HOMEDEPOT, DELIVERY ENTRANCE	
114+48.06 to 114+61.32	RT	13729					21.7		HOMEDEPOT, DELIVERY ENTRANCE	
117+90.11 to 118+03.22	RT	13734					21.6		HOMEDEPOT, 1ST ENTRANCE SE	
118+07.48 to 118+09.48	LT	13744					10.2		TANGERINE AVE SW	
118+53.46 to 118+65.76	LT	13749					22.6		TANGERINE AVE NW	
118+65.59 to 118+78.67	RT	13739					21.6		HOMEDEPOT, 1ST ENTRANCE NE	
121+36.88 to 121+52.51	RT	13754					25.0		HOMEDEPOT, 2ND ENTRANCE SE	
129+18.60 to 129+26.99	RT	13112					17.4		TENNESSEE AVE SE	
133+30.18 to 133+41.82	RT	13762					19.7		GEORGIA AVE NE	
136+39.89 to 136+46.98	RT	13768					14.8		HATFIELD AVE SE	
136+88.02 to 136+96.81	RT	13773					17.3		HATFIELD AVE NE	
138+41.20 to 138+44.25	LT	13220					8.0		LURA AVE NW	
140+53.19 to 140+64.39	LT	13227					25.2		HURWOOD AVE SW	
141+11.35 to 141+14.25	LT	68243					8.0		HURWOOD AVE NW	
141+53.30 to 141+58.30	LT	13252					10.0		HURWOOD AVE NW	

**Incorrect:**

Either the Area ID or the length and width columns must be used.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS										
LOCATION		SIDE	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
			0522	1	0522	2	0527 2			
STA. TO STA.			SY	SY		SF				
		P	F	P	F	P	F			
429+11.48	TO 429+56.19	RT	23.9							
429+11.48	TO 429+17.35	RT				12.0				
429+54.79	TO 430+66.60	RT			60.3					
430+62.54	TO 431+14.62	RT	25.7							
431+03.50	TO 431+14.62	RT				18.0				
431+33.99	TO 431+41.23	RT				13.0				
431+34.00	TO 432+08.73	RT	40.0							
432+03.60	TO 432+08.73	RT				12.0				
432+39.21	TO 434+07.51	RT	91.3							
432+39.21	TO 432+50.23	RT				18.0				
433+99.37	TO 434+07.51	RT				15.0				
434+38.50	TO 442+07.31	RT	425.9							
434+38.50	TO 434+44.53	RT				12.0				
441+90.62	TO 442+07.31	RT				25.0				
442+81.84	TO 448+41.47	RT	311.7							
442+81.84	TO 442+98.71	RT				26.0				
448+36.47	TO 448+41.47	RT				11.0				
448+76.12	TO 449+52.66	RT	41.8							
448+76.12	TO 448+80.80	RT				11.0				
449+50.42	TO 449+52.66	RT				10.0				
449+80.65	TO 456+13.20	RT	351.4							
449+80.65	TO 449+83.01	RT				10.0				
456+07.24	TO 456+13.20	RT				12.0				
456+56.51	TO 457+87.88	RT	72.1							
456+56.51	TO 456+63.10	RT				13.0				
457+85.81	TO 457+87.88	RT				10.0				
458+02.86	TO 458+86.34	RT	46.1							
458+02.86	TO 458+06.47	RT				11.0				
458+84.14	TO 458+86.34	RT				10.0				
459+04.66	TO 460+30.89	RT	73.9							
459+04.66	TO 459+09.33	RT				11.0				
460+27.47	TO 460+30.11	RT				18.0				
460+51.31	TO 460+55.24	RT				12.0				
460+51.80	TO 465+59.33	RT	341.4							
465+49.46	TO 465+85.45	RT			24.4					
465+75.24	TO 466+04.13	RT	23.2							
SUB-TOTAL:			1868.4		84.7		290			

When the Area ID is not used, the width and length should be included in the available columns. The width should not be documented in the Design Notes column.

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 1		0522 2		0527 2			
					SY		SY		SY			
P	F	P	F	P	F	P	F					
129+71.45 to 130+56.08	RT				18.00							WIDTH= 2.0', HARMONIZATION AREA
131+82.10 to 132+39.80	RT				39.10							WIDTH= 4.3', HARMONIZATION AREA
137+89.36 to 138+02.70	LT				8.40							WIDTH= 6.0', HARMONIZATION AREA
139+96.85 to 140+69.20	RT				40.00							WIDTH= 7.3', HARMONIZATION AREA
142+53.17 to 142+91.75	RT				24.50							WIDTH= 6.0', HARMONIZATION AREA
143+21.75 to 143+45.75	RT				16.00							WIDTH= 6.0', HARMONIZATION AREA
143+69.75 to 143+93.80	RT				15.90							WIDTH= 6.0', HARMONIZATION AREA
144+23.78 to 144+64.68	RT				90.80							WIDTH= 20.0', HARMONIZATION AREA
148+05.91 to 149+18.78	RT				2.70							WIDTH= 2.0', HARMONIZATION AREA
149+03.72 to 149+41.28	LT				12.10							WIDTH= 3.0', HARMONIZATION AREA
151+91.74 to 152+06.76	LT				4.20							WIDTH= 2.5', HARMONIZATION AREA
157+90.00 to 158+13.45	LT				2.40							WIDTH= 1.0', HARMONIZATION AREA
158+13.45 to 158+38.50	LT				7.80							WIDTH= 6.0', HARMONIZATION AREA
8+59.00 to 9+58.98	RT				42.78							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 12 ST(WEST)
8+85.00 to 9+64.40	RT				17.80							WIDTH= 2.0', HARMONIZATION AREA SIDE STREET-NW 15 ST(WEST)
10+50.36 to 11+23.83	RT				11.80							WIDTH= 1.5', HARMONIZATION AREA SIDE STREET-NW 17 ST(EAST)
8+45.80 to 8+90.80	RT				19.40							WIDTH= 4.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
8+66.32 to 9+01.52	LT				35.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
9+48.95 to 9+64.66	LT				20.00							WIDTH= 9.0', HARMONIZATION AREA SIDE STREET-NW 18 ST(WEST)
10+35.62 to 10+94.74	LT				35.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)
11+14.74 to 11+44.32	LT				16.80							WIDTH= 5.0', HARMONIZATION AREA SIDE STREET-NW 21 TERR(EAST)
10+44.00 to 10+96.01	RT				6.90							WIDTH= 1.3', HARMONIZATION AREA SIDE STREET-NW 22 ST
69+33.21 to 69+68.21	LT	6717					16.10					
71+34.39 to 71+46.28	LT	65203					35.00					
71+38.13 to 71+80.11	RT	6697					19.60					
72+52.09 to 72+86.24	LT	6627					13.40					
73+69.04 to 74+01.04	LT	6645					13.80					
76+12.39 to 76+46.39	RT	6628					13.20					
78+33.49 to 78+40.10	RT	6719					19.80					
81+69.09 to 82+19.09	RT	6630					27.70					
82+16.01 to 82+60.01	LT	6631					19.50					
83+04.73 to 83+09.84	LT	44754					9.60					
83+18.88 to 83+62.80	RT	6632					22.10					
83+39.85 to 83+44.93	LT	6720					12.20					
83+57.45 to 83+85.45	LT	6633					16.30					
83+87.45 to 84+11.45	LT	6634					15.10					
84+13.45 to 84+41.45	LT	6635					16.20					
84+60.88 to 84+92.88	LT	6636					17.10					
84+97.23 to 85+29.23	LT	6637					17.00					
86+24.67 to 86+62.67	LT	6638					22.30					
97+73.09 to 98+11.12	LT	6639					28.90					
98+47.68 to 99+03.68	RT	6640					35.70					
99+28.16 to 99+60.16	LT	6641					21.00					
99+92.98 to 100+32.98	LT	6642					34.50					
SUB-TOTAL:					488.18		446.10					

31. Summary of Permanent Driveways  
[Instructions; Return to Summary Box List](#)

**Correct:**

**Incorrect:**

### 32. Summary of Ditch Pavement

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

SUMMARY OF DITCH PAVEMENT									
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS	
					0524	1 2			
STA. TO STA.					SY				
					P	F			
964+30.00 to 967+10.00	LT		280.0	7.0		217.8			
966+74.00 to 966+84.00	RT		10.0	7.0		7.8			
SUB-TOTAL:						225.6			
TOTAL:						226			

**Incorrect:**

Either the Area ID or the length and width columns must be used.

SUMMARY OF DITCH PAVEMENT												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	RIPRAP - RUBBLE (DITCH LINING)		BEDDING STONE		DITCH PAVEMENT		DESIGN NOTES	CONSTRUCTION REMARKS
					0530	3 4	0530	74	0524	1 2		
STA. TO STA.					TN		TN		SY			
					P	F	P	F	P	F		
65+67.50 to 65+72.50	LT									3.0		
66+78.01 to 67+10.99	RT				34.1		71.9					
68+77.52 to 68+87.54	LT				4.0		2.9					
SUB-TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		
TOTAL:					38.1	0.0	74.8	0.0	3.0	0.0		

### 33. Summary of Guardrail

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF GUARDRAIL													
LOCATION	SIDE	GUARDRAIL (W-BEAM)		RUB RAIL (SINGLE FACE)		PIPE RAIL		GUARDRAIL REMOVAL		END ANCHORAGE ASSEMBLY (TYPE II)		DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 1		0536 5 1		0536 6		0536 73		0536 85 25			
STA. TO STA.		LF		LF		LF		LF		EA			
		P	F	P	F	P	F	P	F	P	F		
		66+22.32 to 67+64.83	LT					142.5					
67+64.83 to 67+99.20	LT							37.5					
67+64.83 to 68+58.01	LT	100.0											
68+01.01 to 68+58.01	LT			100.0									
86+00.00 to 400+19.50	LT					1073.8						EQUATION: STA. 96+54.25(BK)= STA. 400+00.00(AHD)	
68+42.15 to 68+42.15	LT									1			
SUB-TOTAL:		100.0		100.0		1216.3		37.5		1			
TOTAL:		100		100		1216		38		1			

Incorrect:

Note implies full run of guardrail requires encased posts. This would need to be handled by a specification revision and not a note.

SUMMARY OF GUARDRAIL											
LOCATION	SIDE	GUARDRAIL		PIPE RAIL		END ANCHORAGE ASSEMBLY				DESIGN NOTES	CONSTRUCTION REMARKS
		0536 1 1		0536 6		0536 85 24		0536 85 25			
STA. TO STA.		LF		LF		EA		EA			
		P	F	P	F	P	F	P	F		
		92+30.65 TO 96+67.64	LT	437		437		1			
92+95.29 TO 94+20.31	RT	125		125		1		1		*	
94+80.20 TO 96+80.71	RT	200.5		200.5		1		1		*	
SUB-TOTAL:		762.5		762.5		3		3			
TOTAL:		762.5		762.5		3		3			

\* NOTE: USE ENCASED (ROUND OPTION) STEEL GUARDRAIL POSTS

**34. Summary of Cable Barrier (Pending)**

**[Instructions](#); [Return to Summary Box List](#)**

**Correct: See IDS.**

<http://www.dot.state.fl.us/rddesign/DS/Dev/IDDS/IDDS-D00450.pdf>

**Incorrect:**

### 35. Summary of Permanent Crash Cushions

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

SUMMARY OF PERMANENT CRASH CUSHIONS (431422-1-52-01)												
LOCATION	SIDE	BARRIER SYSTEM		DESIGN LENGTH	DESIGN SPEED	CRASH TEST LEVEL	HAZARD WIDTH	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL						0544	75		
STATION				FT.	MPH	TL-2 / TL-3	IN.	FT.	P	F		
797+06.01	LT.	X		16	60	TL-3		24.00	1		Bridge # 030075	
SUB-TOTAL:									1			
TOTAL:												

**Incorrect:**

Missing length column.

SUMMARY OF PERMANENT CRASH CUSHIONS										
LOCATION	SIDE	BARRIER SYSTEM		DESIGN SPEED	CRASH TEST LEVEL	LENGTH RESTRICTION	CRASH CUSHION		DESIGN NOTES	CONSTRUCTION REMARKS
		CONCRETE BARRIER WALL	GUARDRAIL				0544	75		
STATION				MPH	TL-2 / TL-3	FT	P	F		
309+04.00	RT.	X		70	TL-3	18.75	1			
309+73.03	LT.	X		70	TL-3	18.75	1			
502+43.52	RT.	X		70	TL-3	18.75	1			
SUB-TOTAL:							3			
TOTAL:							3			

### 36. Summary of Fencing

[Instructions](#); [Return to Summary Box List](#)

Correct:

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
550-10-120	FENCING, TYPE A, 5.1'-6.0', STANDARD	1379+17.98	TO 1379+21.70	RT.	LF	24.0			168		
		1379+46.11	TO 1379+53.40	RT.	LF	48.0					
		1399+95.73	TO 1400+25.05	LT./RT.	LF	48.0					
		1402+35.26	TO 1402+43.83	LT./RT.	LF	24.0					
		1402+65.03	TO 1402+78.24	LT./RT.	LF	24.0					
550-10-128	FENCING, TYPE A, 5.1'-6.0', RESET EXISTING	321+63.02	TO 321+64.74	RT.	LF	44.0			284		
		321+91.50	TO 322+25.04	RT.	LF	56.0					
		379+45.85	TO 379+53.58	LT.	LF	40.0					
		379+81.58	TO 379+92.86	LT.	LF	48.0					
		400+31.82	TO 400+61.95	LT./RT.	LF	40.0					
		402+62.83	TO 402+75.33	LT./RT.	LF	19.0					
		403+00.94	TO 403+02.26	LT.	LF	24.0					
		403+01.77	TO 403+08.45	LT./RT.	LF	13.0					

SUMMARY OF FENCING											
PAY ITEM NO.	DESCRIPTION	LOCATION		SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA.	TO STA.			P	F	P	F		
0550 10222	Fencing, Type B, 5.1- 6.0' Height, w/ Vinyl Coating	1412+96.73	R2 to 1412+98.62	R2	LT	LF	1.9		2003		
		1412+96.73	R2 to 1412+99.62	R2	LT		38.5				
		1413+16.82	R2 to 1417+96.36	R2	LT		479.6				
		1418+10.78	R2 to 1418+20.16	R2	LT		23.7				
		1418+20.16	R2 to 1418+20.36	R2	LT		21.7				
		1428+53.58	R2 to 1434+46.34	R3	RT		1437.5				
0550 60212	Fence Gate, Type B, Single, 6.1-12.0' Opening	1434+46.33	R3 to 1434+46.34	R3	RT	EA	1.0		1		
0550 60225	Fence Gate, Type B, Double, 20.1-24.0' Opening	1412+99.62	R2 to 1413+16.82	R2	LT	EA	1.0		2		
		1417+96.36	R2 to 1418+20.36	R2	LT		1.0				

Incorrect:



**Incorrect:**

Do NOT create a new summary box. Plastic Erosion Mat and Prepared Soil Layer quantities go in the same summary box as the Performance Turf.

SUMMARY OF PLASTIC EROSION MAT										
PAY ITEM NO.	PAY ITEM DESCRIPTION	SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
0571 1 13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	LT	156440	SY	48.0		172		MAT @ HATCHETT CREEK	
		RT	156445		48.0				MAT @ HATCHETT CREEK	
		LT	156435		76.0				MAT @ HATCHETT CREEK	

SUMMARY OF PREPARED SOIL LAYER								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PREPARED SOIL LAYER		DESIGN NOTES	CONSTRUCTION REMARKS
					0162 1 11			
STA. TO STA.					SY			
					P	F		
14+19.18 TO 14+44.75	LT				88.0		3-6" LAYERS OF 75/25 SOIL	
14+20.72 TO 14+43.35	RT				38.0		3-6" LAYERS OF 75/25 SOIL	
75+81.00 TO 76+60.00	LT/RT				153.0		21" LAYER OF 75/25 SOIL	
90+36.50 TO 90+98.00	LT/RT				133.0		21" LAYER OF 75/25 SOIL	
96+60.00 TO 97+41.00	LT/RT				192.0		21" LAYER OF 75/25 SOIL	
					SUB-TOTAL :		604	
					TOTAL :		604	

**38. Summary of Traffic Monitoring Site Items**

[Instructions](#); [Return to Summary Box List](#)

**Correct:**

**Incorrect:**

LF quantity and sub-total should be shown to the tenth decimal place.

SUMMARY OF TRAFFIC MONITORING SITE ITEMS														
LOCATION		SIDE	CONDUIT (OPEN TRENCH)		PULL AND SPLICE BOX (17" X 30")		VEHICLE AXLE SENSOR, NON-WEIGHT		INDUCTIVE LOOP ASSEMBLY		CABINET		DESIGN NOTES	CONSTRUCTION REMARKS
SITE NO.	STATION		0630 2 11		0635 2 11		0695 1 1		0695 6 12		0695 7132			
			LF		EA		EA		EA		EA			
			P	F	P	F	P	F	P	F	P	F		
105616	1368+09.00	LT/RT	133		2		4		4		1			
SUB-TOTAL:			133		2		4		4		1			
TOTAL:			133		2		4		4		1			