Basis of Estimates

2009

State Specifications and Estimates Office
Estimating Systems Support Section
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# Basis of Estimates

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</table>

**Appendices (available online)**

- Appendix 1: Past Updates/ Cover Letters
- Appendix 2: History- Obsolete Structures
- Appendix 3: Forms & Documentation
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Introduction

BASIS OF ESTIMATES MANUAL

I.1 PURPOSE

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

I.2 AUTHORITY

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

I.3 SCOPE

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

I.4 GENERAL INFORMATION

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

I.5 DISTRIBUTION

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

I.6 REGISTRATION

All users are encouraged to register online with the FDOT Project Management Contact Database located at [http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm](http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm). Registered users will receive e-mail notification of major updates and bulletins.
I.7 REVISIONS and UPDATES

*Basis of Estimates* holders are encouraged to submit comments and suggestions for changes to this manual to the State Specifications and Estimates Office. When ideas or suggestions are received, they will be reviewed by appropriate Design and/or Construction staff in a timely manner, and will be coordinated with other offices affected by the proposed change. Issues warranting immediate change will be made with the approval of the State Estimates Engineer in the form of an *Estimates Bulletin*. *Estimates Bulletins* will be posted online at [http://www.dot.state.fl.us/estimates](http://www.dot.state.fl.us/estimates). The State Specifications and Estimates Office will also coordinate proposed revisions or additions with affected offices within the Central Office. Substantive revisions that result in policy change will be coordinated in accordance with Procedure No. 025-020-002, Standard Operating System.

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

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

I.8 TRAINING

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

I.9 FORMS

The Pay Item Request form is available online at [http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp](http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp)

The use of this form is optional; refer to Chapter 6 for complete information.

**Revision History**  
Chapter 1
Updates & Registration

State Specifications and Estimates Office
Estimating Systems Support Section
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Chapter 1
Updates and Registration

1.1 Registration

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

1.2 Update notices

An e-mail message is sent to all registered users when major updates occur, normally twice a year. The e-mail message will remind users to go to the Estimates Office web pages for the BOE, as well as to read the Summary of Major Changes, also known as the “Cover Letter”.

Special Update notices, Estimates Bulletin announcements, or other e-mail messages may be sent to registered users. These e-mail messages will only be sent when it is determined that an issue has a “significant impact” on a large number of users, with approval of the State Estimates Engineer.

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

1.3 Proposed Changes

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

a) Pay item Issues: Refer to Chapter 6 for additional information.
b) Formatting Issues: Evaluated by the BOE Coordinator.
c) Other Content Issues: Evaluated by the BOE Coordinator and/or the responsible office.

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

1.4 Submitting Proposed Updates

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

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

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

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

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

*Issues with less than 6 months advance notice will normally be issued as a Bulletin, Mandatory, or other special announcement to registered users.

**Contact the responsible office for critical dates and update procedures. Specifications, manuals, and handbooks may take 6-18 months from start to implementation.

Chapter 1 Revision History

Chapter 2
Units of Measure:
Abbreviations & Conversion Factors
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Chapter 2
Units of Measure

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>AC</td>
<td>Acre</td>
</tr>
<tr>
<td>AS</td>
<td>Assembly*</td>
</tr>
<tr>
<td>BU</td>
<td>Bushel</td>
</tr>
<tr>
<td>CF</td>
<td>Cubic Foot</td>
</tr>
<tr>
<td>CO</td>
<td>Cleanout*</td>
</tr>
<tr>
<td>CY</td>
<td>Cubic Yard</td>
</tr>
<tr>
<td>DA</td>
<td>Day</td>
</tr>
<tr>
<td>DD</td>
<td>Dollars per Day</td>
</tr>
<tr>
<td>EA</td>
<td>Each</td>
</tr>
<tr>
<td>ED</td>
<td>Each Day</td>
</tr>
<tr>
<td>GA</td>
<td>Gallon</td>
</tr>
<tr>
<td>GK</td>
<td>Gross Kilometer</td>
</tr>
<tr>
<td>GM</td>
<td>Gross Mile</td>
</tr>
<tr>
<td>HA</td>
<td>Hectare</td>
</tr>
<tr>
<td>HR</td>
<td>Hour</td>
</tr>
<tr>
<td>KG</td>
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<td>KM</td>
<td>Kilometer</td>
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<tr>
<td>LB</td>
<td>Pound</td>
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<td>LF</td>
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<td>Liter</td>
</tr>
<tr>
<td>LO</td>
<td>Location</td>
</tr>
<tr>
<td>LS</td>
<td>Lump Sum</td>
</tr>
<tr>
<td>LU</td>
<td>Luminaire</td>
</tr>
<tr>
<td>M1</td>
<td>Meter</td>
</tr>
<tr>
<td>M2</td>
<td>Square Meter</td>
</tr>
<tr>
<td>M2</td>
<td>Square Meter</td>
</tr>
<tr>
<td>M3</td>
<td>Cubic Meter</td>
</tr>
<tr>
<td>MB</td>
<td>Board Measure/ Thousand Feet</td>
</tr>
<tr>
<td>MG</td>
<td>Thousand Gallons</td>
</tr>
<tr>
<td>MH</td>
<td>Man-hour**</td>
</tr>
<tr>
<td>MI</td>
<td>Mile</td>
</tr>
<tr>
<td>MO</td>
<td>Month</td>
</tr>
<tr>
<td>MT</td>
<td>Metric Ton</td>
</tr>
<tr>
<td>NK</td>
<td>Net Kilometer</td>
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<tr>
<td>Units</td>
<td>Definition</td>
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<tr>
<td>NM</td>
<td>Net Mile</td>
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<tr>
<td>PA</td>
<td>Per Analysis*</td>
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<td>PB</td>
<td>Per Building*</td>
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<tr>
<td>PI</td>
<td>Per Intersection*</td>
</tr>
<tr>
<td>PL</td>
<td>Plant*</td>
</tr>
<tr>
<td>PM</td>
<td>Per Mile*</td>
</tr>
<tr>
<td>PS</td>
<td>Per Set*</td>
</tr>
<tr>
<td>PW</td>
<td>Per Well*</td>
</tr>
<tr>
<td>SF</td>
<td>Square Foot</td>
</tr>
<tr>
<td>SY</td>
<td>Square Yard</td>
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<tr>
<td>TH</td>
<td>Therms</td>
</tr>
<tr>
<td>TN</td>
<td>Ton</td>
</tr>
<tr>
<td>YD</td>
<td>Yard</td>
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</tbody>
</table>

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

### 2.2 CONVERSION FACTORS

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

#### Area Measure
- 9 ft²/yd²
- 0.836 m²/yd²
- 1.2 yd²/m²
- 0.40 ha/ac
- 4047 m²/ac
- 2.477 ac/ha
- 43.560 ft²/ac
- 4840 yd²/ac
- 640 ac/mi²
- 0.386 mi²/km²
- 2.590 km²/mi²

#### Volume, Liquid Measure
- 1728 in³/ft³
- 0.028 m³/ft³
- 0.765 m³/yd³
- 27 ft³/yd³
0.2642 gal/l
3.785 l/gal

**Force, Weight Measure**

2.205 lb/kg
1.10 TN/MT
0.907 MT/TN (short ton)
2000 lb/ton (short ton)
1000 kg/MT

Additional items to be added upon request.

**Chapter 2 Revision History**

10-1-2008: Updated header dates for 2009 edition
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Chapter 3

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Chapter 3 Revision History

Chapter 4
Blank– Future Use
Chapter 4

Blank- for future enhancement

Chapter 4 Revision History

Chapter 5
Contact Lists

State Specifications and Estimates Office
Estimating Systems Support Section
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Chapter 5
Contact Lists

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

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

5.1 CENTRAL OFFICE PAY ITEM COORDINATORS

<table>
<thead>
<tr>
<th>CENTRAL OFFICE SERVICES</th>
<th>COORDINATOR</th>
<th>LOCAL</th>
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<tbody>
<tr>
<td>Estimates, Engineering Support Services</td>
<td>Melissa Hollis</td>
<td>850-414-4182</td>
</tr>
<tr>
<td>Long Range Estimates</td>
<td>Dale Stanley</td>
<td>850-414-4197</td>
</tr>
<tr>
<td>TRNS*PORT PES/CES</td>
<td>Cheri Sylvester</td>
<td>850-414-4179</td>
</tr>
<tr>
<td>Final Estimates</td>
<td>David Chason</td>
<td>850-414-4171</td>
</tr>
<tr>
<td>Construction COMP Book forms</td>
<td>Sherry Valdez</td>
<td>850-414-4249</td>
</tr>
<tr>
<td>Specifications</td>
<td>Rudy Powell</td>
<td>850-414-4280</td>
</tr>
<tr>
<td></td>
<td>Frances Thomas</td>
<td>850-414-4101</td>
</tr>
<tr>
<td>Construction</td>
<td>Stefanie Maxwell</td>
<td>850-414-4314</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Deanna Carroll</td>
<td>850-410-5757</td>
</tr>
<tr>
<td>CADD</td>
<td>Bill Gerry</td>
<td>850-245-1600</td>
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<tr>
<td></td>
<td>Michelle Guynn</td>
<td>850-245-1621</td>
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## 5.2 DISTRICT COORDINATORS

<table>
<thead>
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<th>DISTRICT</th>
<th>COORDINATOR (Titles vary by District)</th>
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<tr>
<td>First</td>
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<tr>
<td></td>
<td>John Previte</td>
<td>863-519-2679</td>
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<td>Estimates:</td>
<td>863-519-2558</td>
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<td>Second</td>
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<td></td>
<td>Teresa Thrasher</td>
<td>386-961-7470</td>
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<tr>
<td></td>
<td>Estimates:</td>
<td>386-758-3759 \n</td>
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<tr>
<td>Third</td>
<td>Specifications:</td>
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<td></td>
<td>Robert Ellis</td>
<td>850-415-9459</td>
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<td></td>
<td>Estimates:</td>
<td>850-415-9361 \n</td>
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<tr>
<td>Fourth</td>
<td>Specifications:</td>
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<tr>
<td></td>
<td>Ben Burton</td>
<td>954-777-4135</td>
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<tr>
<td></td>
<td>Estimates:</td>
<td>954-777-4691</td>
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<tr>
<td>Fifth</td>
<td>PS&amp;E:</td>
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<td></td>
<td>Ed Kestory</td>
<td>386-943-5185</td>
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<td>Specifications:</td>
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<td></td>
<td>Anne Brewer</td>
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<td>Thomas Maultsby</td>
<td>386-943-5191</td>
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<td>Anna Porter</td>
<td></td>
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<td>Sixth</td>
<td>Specifications:</td>
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<tr>
<td></td>
<td>Hong Benitez</td>
<td>305-470-5268</td>
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<td>Estimates:</td>
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<td>Seventh</td>
<td>PS&amp;E:</td>
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<tr>
<td></td>
<td>Jason Spilak</td>
<td>813-975-6799</td>
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<td>Specifications:</td>
<td>813-975-6279</td>
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<tr>
<td></td>
<td>Brian Shroyer</td>
<td></td>
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<td></td>
<td>Estimates:</td>
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<tr>
<td>Turnpike</td>
<td>PS&amp;E:</td>
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<tr>
<td></td>
<td>Don Brackins</td>
<td>407-532-3999 x3437</td>
</tr>
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<td>Specifications:</td>
<td>407-532-3009</td>
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<tr>
<td></td>
<td>Bill Newlin</td>
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<tr>
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<td>Estimates:</td>
<td>407-264-3444</td>
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</tbody>
</table>

NOTE: Some districts operate as a "PS&E" group (Plans, Specifications, & Estimates), while others have separate offices. Additional names and/or descriptions may be added upon request of the District Office(s).
### 5.3 CONTACT PERSONS - BY PAY ITEM NUMBER RANGE

<table>
<thead>
<tr>
<th>ITEM NUMBERS</th>
<th>SUBJECT/GROUP</th>
<th>CENTRAL OFFICE COORDINATOR</th>
<th>PHONE</th>
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</thead>
<tbody>
<tr>
<td>100-102</td>
<td>MOT</td>
<td>Cheryl Adams</td>
<td>850-414-4327</td>
</tr>
<tr>
<td>103</td>
<td>Temporary Structures</td>
<td>Robert Robertson</td>
<td>850-414-4267</td>
</tr>
<tr>
<td>104</td>
<td>Erosion Control</td>
<td>Jerome Taylor</td>
<td>850-414-4355</td>
</tr>
<tr>
<td></td>
<td>Drainage</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Environmental</td>
<td>Joshua Boan</td>
<td>850-414-5266</td>
</tr>
<tr>
<td>106-108</td>
<td>Environmental Coordinator</td>
<td>Jeff Caster</td>
<td>850-414-5267</td>
</tr>
<tr>
<td></td>
<td>Water/Erosion Control</td>
<td>Joshua Boan</td>
<td>850-414-5266</td>
</tr>
<tr>
<td></td>
<td>Air Quality</td>
<td>Jeff Caster</td>
<td>850-414-5267</td>
</tr>
<tr>
<td></td>
<td>Decontamination/Hazardous Materials</td>
<td>Jeff Caster</td>
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<td>Field Office</td>
<td>Stefanie Maxwell</td>
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<td>&quot;Dirt&quot; Earthwork</td>
<td>Cheryl Adams</td>
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<td>Joshua Boan</td>
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<td>Jeff Caster</td>
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<td>300-399,</td>
<td>Surface Courses, Concrete Pavement</td>
<td>Emmanuel Uwaibi</td>
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<td>Robert Robertson</td>
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<td>Jerome Taylor</td>
<td>850-414-4355</td>
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<td>Robert Robertson</td>
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<td>Incidental Construction- Roadway Items</td>
<td>Andy Keel</td>
<td>850-414-4323</td>
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<td>551-569</td>
<td>Incidental Construction- Structural Paint</td>
<td>Robert Robertson</td>
<td>850-414-4267</td>
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<td>570-599</td>
<td>Incidental Construction- Landscaping</td>
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<td>Wetland Monitoring</td>
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<td>Chester Henson</td>
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<td>Traffic Control</td>
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</tr>
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<td>Traffic Control- Lighting</td>
<td>Chester Henson</td>
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<td>Incidental Construction- Other</td>
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<td>Incidental Construction- Traffic Monitoring (TMS)</td>
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<td>850-414-4323</td>
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<tr>
<td>750-770</td>
<td>Incidental Construction- Other</td>
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<tr>
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<td>Gene Glotzbach</td>
<td>850-410-5616</td>
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<tr>
<td>800-899</td>
<td>Mass Transit (Railroad)</td>
<td>Gordon Wheeler</td>
<td>850-414-4366</td>
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<tr>
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<td>Utilities</td>
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</tbody>
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### Chapter 5 Revision History

- **10-1-2008**: Updated CO Specs contact information.
- **5-28-08**: Updated contact information for Districts 3.
Chapter 6
Requesting Pay Items
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Chapter 6
Requesting Pay Items

6.1 General

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

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

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

6.2 Opening Pay Items

For items included in the Pay Item Structure, but not currently open on the Master Pay Item list, submit the following information via e-mail to the District Estimates Engineer:
- Financial Project ID,
- Letting date,
- FDOT project manager’s name,
- Pay item number and description,
- Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
- Contact name and phone number.

For Tech Spec items: Coordinate with the District Specifications Office before requesting pay items.
SAMPLE E-Mail for Opening Pay Items  
(with Valid Pay Item Structure)

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

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

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

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

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

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

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

6.3 Requesting New Items
To expand or request a new pay item structure, submit the following information via e-mail to the District Estimates Engineer (form 600-000-02 may be used, as needed)
- Item Description and suggested unit of measure, accuracy
- BOE Detail text,
- Proposed pay item structure (if applicable for items with multiple sizes, functions, etc.)
- Specifications (refer to current specification section, or attach proposed Developmental and/or Technical Special Provision)
- PPM reference, standards, and/or plan notes that may apply,
- Supporting information (drawings, Manufacturer’s literature, etc.), if available
- Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
- Contact name, e-mail address, and phone number of Designer and/or Project Manager
- Financial Project ID & Letting Date
The District Estimates Engineer forwards the request to the State Estimates Office. It is reviewed by the responsible office(s), Specifications Office, and then returns to the Estimates Office. Each office has the opportunity to indicate if the proposed change affects current documents (specifications, standards, and/or other manuals).

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

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

6.4 Pay Item Request Form Instructions

The Pay item request form 600-000-02 is available at http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp

As noted above, the form is optional; the required information may be submitted via e-mail.

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

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

Item Structure (Pay item number):

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

- Guidelines for new pay item structures 0123-456-789:
  - First three digits (123) match the Specification Section. See also Developmental Pay Items for special cases.
  - Digits 456-789 are right justified within the group.
  - Variables ABC-DEF may be used to define operation, size, shape, color, type, etc.

When needed to separate items with significantly different cost. Variables that can be defined in the plans or specifications DO NOT need separate pay items, if the cost is
similar. Contact the Basis of Estimates Coordinator for assistance.

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

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

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

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

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

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

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

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

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

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

*Method of Measure, Accuracy:
Unit of Measure & Accuracy used for payment. Consider payment accuracy of similar items, as shown in the Basis of Estimates. Note: Calculation/Documentation may require higher level of accuracy in the plans and/or computation book.

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

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

Documentation-
*Specification- Section, Article; Tech Specs?:
  For items with existing or related specifications (requests for items with new size, shape, or function), refer to the applicable Section number.
  For project specific items without existing specifications (requests for items with limited use or project specific conditions), contact the District Specifications Office; a copy of the Technical Special Provision will be required with the pay item request form.
  For new, general use items without existing specifications (requests for items based on changes to standards, specifications, and or policy), contact the State Specifications Office. The implementation of these items will be coordinated with all affected offices.

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

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

*Standards Index No(s):
Applicable Roadway and Traffic Design Standards, or Structures Design Standards, with index number(s). If a revision is necessary, contact the applicable office.

*CADD/COMP Form Number(s):
Applicable form(s) for documentation of quantities. Refer to Section 1 of the Basis of Estimates for current forms.

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

Other:
If use of this item is included in other documentation (Drainage, Pavement Design, Traffic Signals, or other Manual/Handbook), note applicable volume, chapter, or edition. If revisions are necessary, coordinate changes with applicable office.
Responsible Office Approval, Date:
This is the Office and Contact Person listed in Chapter 5, generally within the Office of Design in Tallahassee. The Contact Person in the Responsible Office should refer to Chapter 10 for assistance in completing the blank fields on the form.

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

Estimator’s Approval, Date:
State Estimates Office, Preliminary Estimates Section will review of the proposed price and/or related items.

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

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

Central Office Approvals-
Design Coordinator, Specifications Coordinator, BOE Coordinator, TRNS*PORT Coordinator:
Each person responsible for approval should verify that requested action is necessary, meets existing/proposed standards, guidelines, handbooks, etc, and not in conflict with existing item(s).

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

Master File- Item Number, Financial Project Number, and Project Letting Date:
If a project number is known, the item(s) will be opened upon approval and implementation. If the project number is unknown, the structure will be established, but the
item will not be opened until requested.

6.5 Inactive Items

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

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

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

6.6 Pay Item Reviews

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

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

a. What factors are most important to the Designer, Estimator, Supplier, Manufacturer, and/or Contractor? Can they be detailed in the plans? Are they included in the specification? Does it affect the price?
   
   Note: Not all factors should be weighted equally. Sometimes the installation (labor) is more significant than the materials.

b. Are there standards/specifications for the item?

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

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

6.6 Coordination Team

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

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

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

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

6.7 Developmental Pay Items / Trial Pay Items

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

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

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

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

6.8 Related Documents

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

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

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

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

Chapter 6 Revision History

10-1-2008: Updated text to make the pay item request form optional. Complete information may be submitted by e-mail.
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Chapter 7
Plan Notes

7.1 General Information

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

- Change the specifications
- Conflict with the specifications
- Duplicate the specifications

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

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

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

Chapter 7 Revision History

5-28-08: Deleted notes; refer to PPM for current information for: Key Sheet Notes, Typical Section Notes, Summary of Quantities Sheet Notes, Plan and Profile Sheet Notes, Pay Item Footnotes, Drainage Map Notes, and Utility Adjustment Sheet Notes.
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Chapter 8
Forms
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Chapter 8
FORMS

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

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

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

8-1 Introduction


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

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

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

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

8.2 Computation Book Forms

The forms assembled in the Computation Book provide a simple and logical basis of documentation for the Summary of Pay Items Sheet in the contract plans. The calculations required for different forms, range from tabulations of “each items” or “lump sum items” to complex area or volume calculations. The designer should use the form recommended for each item calculated or tabulated, if practical.
<table>
<thead>
<tr>
<th>Form Number</th>
<th>Form Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-050-01</td>
<td>Area Computations</td>
</tr>
<tr>
<td>700-050-02</td>
<td>Curb and/or Gutter Computation</td>
</tr>
<tr>
<td>700-050-03</td>
<td>Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computations</td>
</tr>
<tr>
<td>700-050-04</td>
<td>Volume Measure Items</td>
</tr>
<tr>
<td>700-050-05</td>
<td>Lump Sum Quantities</td>
</tr>
<tr>
<td>700-050-06</td>
<td>Weight Measure or Liquid Volume Computations</td>
</tr>
<tr>
<td>700-050-07</td>
<td>Concrete &amp; Reinforcing Steel Computations</td>
</tr>
<tr>
<td>700-050-08</td>
<td>Piling Tabulation</td>
</tr>
<tr>
<td>700-050-09</td>
<td>Linear Measurement Computation with Components</td>
</tr>
<tr>
<td>700-050-10</td>
<td>Computation Book Pay Item Summary Sheet</td>
</tr>
<tr>
<td>700-050-11</td>
<td>Computation Book Pay Item Summary and Certification Sheet</td>
</tr>
<tr>
<td>700-050-50</td>
<td>Off Duty Police Officer</td>
</tr>
<tr>
<td>700-050-51</td>
<td>Daily Log Sheet, Maintenance of Traffic</td>
</tr>
<tr>
<td>700-050-52</td>
<td>Daily Log Sheet ( Striping )</td>
</tr>
<tr>
<td>700-050-54</td>
<td>Daily Report of Truck-Measured Material</td>
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<tr>
<td>700-050-55</td>
<td>Daily Log Sheet for Tracking Grassing Items</td>
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<tr>
<td>700-050-56</td>
<td>Daily Log Sheet for Miscellaneous Items</td>
</tr>
<tr>
<td>700-050-62</td>
<td>Contractor’s Certified Invoice, Maintenance of Traffic Sheet</td>
</tr>
</tbody>
</table>

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

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

### 8.3 Plans Forms (CADD-Generated)

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

<table>
<thead>
<tr>
<th>Form Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Data Sheet (Sheets 1 and 2)</td>
</tr>
<tr>
<td>Tabulation of Quantities *</td>
</tr>
<tr>
<td>Summary of Pay Items</td>
</tr>
<tr>
<td>Summary of Drainage Structures</td>
</tr>
<tr>
<td>Summary of Guardrail</td>
</tr>
<tr>
<td>Summary of Ditch Pavement and Sodding</td>
</tr>
<tr>
<td>Summary of Fencing</td>
</tr>
<tr>
<td>Summary of Fencing Type B</td>
</tr>
<tr>
<td>Summary of Fencing Type A</td>
</tr>
<tr>
<td>Summary of Earthwork</td>
</tr>
</tbody>
</table>

Refer to the CADD office web page for form/sheet names
Summary of Sodding

Summary of Side Drain and Mitered End Sections (Without Offset and Flow Line)

Summary of Sheeting

Summary of Turnouts

Summary of Underdrain

Summary of Gravity Wall and Aluminum Handrail

Summary of Flood Data

Cross Drain Optional Materials Tabulation (With Flow Line) (Sheets 1 & 2)

Optional Materials Tabulation (without Flow Line Changes) (Sheets 1 & 2)

Summary of Edgedrain

Summary of Sidedrain and Mitered End Sections (With Offset and Flow Line)

* The Tabulation of Quantities format shall be used for the following:
  1. Signalization Plans
  2. Signing and Pavement Marking Plans
  3. Lighting Plans
  4. Landscaping Plans
  5. Utility Joint Project Agreement Plans
  6. Other items, as indicated in the Basis of Estimates Handbook.

CONTACT INFORMATION

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

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

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

**PAY ITEM REQUEST**

600-000-02

This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details. Note: This form is optional; required information may be sent via e-mail, per Chapter 6.
Chapter 8 Revision History

10-6-2008: 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.
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Chapter 9

TRNS*PORT Designer Web Pages
(Webgate)

State Specifications and Estimates Office
Estimating Systems Support Section
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Chapter 9
Webgate: TRNS*PORT Designer Interface & Reports

Outline

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Levels: Proposal, Project, Category, and Pay Item
Training & Helpful Hints
Security
Control Groups
Roles

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Other Applications

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Proposal Summary of Pay Items (CADD)
Project Summary of Pay Items
Project Item List
Pay Item Average Unit Cost
Item Average Unit Cost
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9.1 General

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

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

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

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

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

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

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

**User Control Group:** CD??A123

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

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

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

### 9.2 Webgate

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

#### 9.2.1 Menu

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

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

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

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

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

9.3 Designer Interface

9.3.1 Project Access and Verification: Once assigned to a project, the designer should verify:
   a) that the project exists (or that proper control has been given)
   b) that all project header information is correct

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

9.3.2 Headers: TRNS*PORT information is grouped at various levels:
   Proposal
   Project
   Category (aka Design Group)
   Pay Item

Each level includes information applicable to the levels above and/or below it.
9.3.2.1 **Proposal Headers:** The District Estimates Office creates the proposal prior to the letting. The proposal is used to “link” or “string” one or more projects, for letting purposes. All projects must be assigned a proposal number prior to advertisement.

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

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

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

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

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

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

9.3.2.4 Bridge Category Header: The bridge header requires information specific to each structure. **Each bridge must be loaded into a separate category**, with details specific to that bridge. With each bridge category, the Designer Interface
requires that the bridge category header information, specifically the bridge ID, be entered prior to loading/editing pay items. The following fields must be completed:

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

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

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

**Number of Spans:** Enter the correct number

**Bridge Type:** Select the appropriate type.

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

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

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

**Begin/End Termini:** Not used.

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

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

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

**Structure Location:** Select the appropriate type.

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

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

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

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

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

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

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

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

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

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

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

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

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

9.3.6 Pay Items, TRNS*PORT Category, and Component Plans: Pay items within a category must correspond to the work shown in the component plans. For example, the signals items shown in the signals category/summary of pay items must correspond to the work shown in the signals plans.

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

For landscaping- all work must be detailed in the plans.
For structures- each bridge must be entered separately. All work associated with each structure must be entered accordingly.
For ITS- only projects identified by the State ITS office, with ITS funding, are to be entered with ITS pay items. (Signals projects without ITS funding should use signals items with signals plans, even for computerized or future ITS installations.)
For Signals- use signals pay items.
For lighting- use lighting pay items.
Note: Some items are valid in multiple categories; they include directional drilling, jack & bore. Some items are separated by category and specification; they include conduit (separate items for lighting, signals, ITS, and utilities), fiber optic, pull & junction boxes, electrical work, and foundations. Select the pay item appropriate for the category and work to be completed. Refer to the specifications for materials and installation requirements.

9.4 Reports

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

The following definitions are important in TRNS*PORT.

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

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

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

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

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

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

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

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

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

9.4.6 Project Item List: This report will list the items and quantities for a given project number.

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

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

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

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

Chapter 9 Revision History

10-1-2008: Updated 9.3.6 Pay Items, TRNS*PORT Category, and Component Plans to include examples of items/category usage.
Chapter 10
Formatting Pay Items
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Chapter 10
Formatting Pay Items

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

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

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

10.2 Format / Legend
The pay item information shown in the online BOE is formatted as follows:

<table>
<thead>
<tr>
<th>Pay Item Number</th>
<th>PAY ITEM DESCRIPTION</th>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>Important Notes or Dates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td>Details</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Related Items</td>
<td>Required</td>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
<tr>
<td>Forms</td>
<td>Design</td>
<td></td>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td></td>
<td>Standards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Specifications</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P&amp;DM Chapter(s)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td>Tech Spec Recommended</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structure</td>
<td>Item Description</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Structure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Structure Notes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pay Item Number:** Each 10 digit Pay Item is structured into three parts: 1234-567-890. Spaces and/or digits may be used to detail an item.
Within the first group (first 4 digits), the leading digit indicates the unit system: 0 - English, 1 - English Utilities, 2 - Metric, 3 - Metric Utilities, 9 - Special. The remaining digits (second through fourth digits), identify the applicable Specification Section.

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

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

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

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

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

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

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

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

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

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

**Original, Design:** Available Methods for documentation of design quantities in the plans and/or computation book, with appropriate form numbers noted.
When both a CADD and COMP book form are listed, the designer should select the appropriate form based on the item and form contents. Some forms have additional fields to detail complex lines, grades, areas, and/or other features. Do NOT use both a CADD and COMP book form for the same item.

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

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

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

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

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

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

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

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

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

Structure: Item Description Unit
English Structure
English Structure Notes

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

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

Parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results (i.e., more items, less history per item).

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

Although the BOE listing shows all valid combinations of pay items, not all of the pay items are currently open for use. Refer to the Master Pay Item List for currently open items. For additional information on opening or requesting new pay items, refer to Chapter 6.

Note that the metric pay item structure is maintained in the BOE Database, but not currently published in the online BOE.

Additional Notes: Additional notes, as provided by the responsible office or C-Team, may be included in the Notes or Detail fields.

10.3 Pay Item Ranges

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

10.4 Where to Find It

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

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

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

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

We appreciate your comments and suggestions.

Chapter 10 Revision History

Chapter 11
Items 000 to 199

State Specifications and Estimates Office
Estimating Systems Support Section
This page intentionally left blank
### 50- A- DESIGN / BUILD

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

#### Notes

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

#### Details

Constractor is responsible for design. The computation book, if required, will show lump sum tasks (lump sum constructed project pay items), as listed in the proposal. Any adjusted final quantities for the lump sum payment will require appropriate documentation and Supplemental Agreements. The "as-built" final plans must show any additions/deletions that occurred on the project.

#### Related Items

- **Required**: 999-25 (2999-25)
- **Recommended**: SHTabQuantLS, COMP 700-050-05
- **Design**: Refer to Comp Book
- **Construction**: Any adjusted final quantities for the lump sum payment will require appropriate documentation and Supplemental Agreements. The "as-built" final plans must show any additions/deletions that occurred on the project.

#### Standards

- **References**
  - PPM Chapter
  - Other
  - Specifications
  - Plan Detail and/or Tech Spec Required
  - Prep & Doc Manual Chapter(s)
  - 11

#### TRNS*PORT Category (DRAFT FIELD):

- 0200 Roadway

#### Status

- **Struct. 50- A- DESIGN / BUILD LS/LS**
  - A= Operation
  - 1 (Resurfacing)
  - 2 (Roadway Construction)
  - 3 (Roadway Reconstruction)
  - 4 (Bridge Construction)
  - 5 (Buildings)
  - 6 (Traffic Operations)

#### Notes

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

---

### 101- 1- MOBILIZATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

#### Notes

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

#### Related Items

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

102- 1- MAINTENANCE OF TRAFFIC

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

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

Code the second unit of measure (number of days) from the construction day estimate.

For contracts with more than one project, the pay item for Maintenance of Traffic will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA): the Maintenance of Traffic will not be shown on the Summary of Pay Items for the JPA; the cost of Maintenance of Traffic will be included in the prime project.
### 102- 2- AA SPECIAL DETOUR

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>yes</td>
</tr>
</tbody>
</table>

#### Notes

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

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

#### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

#### Structure

102- 2- AA

AA = Detour Number
1 (First Detour Of Several)
2 (Second Detour Of Several)
3 (Third Detour Of Several)
4 (Fourth Detour Of Several)
N (Nth Detour Of Several)
N = 1 Thru 56

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 2 21</td>
<td>SPECIAL DETOUR 21</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 22</td>
<td>SPECIAL DETOUR 22</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 23</td>
<td>SPECIAL DETOUR 23</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 24</td>
<td>SPECIAL DETOUR 24</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 25</td>
<td>SPECIAL DETOUR 25</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
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<td></td>
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<tr>
<td>0102 2 26</td>
<td>SPECIAL DETOUR 26</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
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<tr>
<td>0102 2 27</td>
<td>SPECIAL DETOUR 27</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 28</td>
<td>SPECIAL DETOUR 28</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 29</td>
<td>SPECIAL DETOUR 29</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
<tr>
<td>0102 2 30</td>
<td>SPECIAL DETOUR 30</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

#### Notes

**Details**

Consists of furnishing and placing suitable material which may be necessary for providing safe access to businesses and residences affected by the construction. If authorized, portions of this material may be salvaged and reused at other driveways along the length of the project. Use 250 cubic yards per mile (200 cubic meters per kilometer) on rural projects and 500 cubic yards per mile (400 cubic meters per kilometer) on urban projects. Use 250 cubic yards (200 cubic meters) as a minimum. The final quantity shall be determined by truck measurement, loose volume.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: 700-050-54
- **Recommended**
  - Design: COMP 700-050-04
  - Construction: COMP 700-050-04

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 7
- **Other**: 13

**Prep & Doc Manual Chapter(s)**: 7, 13

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

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

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

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

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

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

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

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

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

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

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 3</td>
<td>COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
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<td>$25.11</td>
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</table>

### 102-11- SERVICE PATROL

<table>
<thead>
<tr>
<th>Notes Details</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MH</td>
<td>Hour</td>
<td>no</td>
</tr>
</tbody>
</table>

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

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

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
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</tbody>
</table>

| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
|              |        |
|              | Construction | All field records are required for this item. Final payment is based on field book/records. |

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards Specifications</th>
<th>Index No. 600</th>
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</table>

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

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

### Status

**Struct.** 102-11- SERVICE PATROL MH

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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### 102-14- TRAFFIC CONTROL OFFICER

<table>
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<th>Unit</th>
<th>Accuracy</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MH</td>
<td>Hour</td>
<td>no</td>
</tr>
</tbody>
</table>

Refer to 999-102 for Speed/Law Enforcement

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

Provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling and directing traffic in the work zone ONLY when the following types of work is necessary on projects:

---

Details and Structure: Items 000 to 199
*traffic control in a signalized intersection when signals are not in use,
*when standard index no. 619 (moving operations) are used on Interstate at nighttime and
required by the plans,
*when pacing/rolling blockade specification is used (Tech Spec Recommended).
The Department will include pay item 102-14 for officers directing traffic as defined above.
For Speed and Law Enforcement officers, see pay item 999-102

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms Design</td>
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<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>700-050-50</td>
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<th>Design</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td></td>
<td>All field records are required for this item. Final payment is based on field book/records.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
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<tr>
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<td>Index No. 619</td>
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<td>Specifications</td>
<td>Plan Detail and/or Tech Spec Required</td>
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*TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

<table>
<thead>
<tr>
<th>Status</th>
<th>Struct. 102-14- TRAFFIC CONTROL OFFICER MH</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Notes</th>
<th>Refer to 999-102 for Speed/Law Enforcement</th>
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</thead>
</table>

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</table>

### Item 102-60-

**WORK ZONE SIGN**

<table>
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<th>Details</th>
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<tbody>
<tr>
<td></td>
<td>Used for the purpose of informing motorists of the work zone and work zone related (i.e. temporary regulatory or temporary route) conditions that will be encountered. Tabulate the number of individual sign panels (20 square feet or less)/(1.9 square meters or less) as recorded per day for each phase of the project. When multiple signs are located together on a single or multiple posts, each sign panel will be paid for individually. Non-standard sign panels, including Project Information Signs, (greater than 20 square feet)/(greater than 1.9 square meters) will be detailed in the plans and paid for under Maintenance of Traffic, Lump sum.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-51</td>
<td></td>
</tr>
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<tr>
<th>Documentation</th>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

Details and Structure: Items 000 to 199
### Standards
Index No. 600

#### Notes
Signs LESS THAN 20 sf only - see details above

---

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

---

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

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<td>WORK ZONE SIGN</td>
<td>ED</td>
<td>1/1/2007</td>
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<td></td>
<td></td>
<td>$0.31</td>
</tr>
</tbody>
</table>

---

#### 102-61-  
**BUSINESS SIGN**

**Unit**  
EA

**Accuracy**  
Each

**PlanQuantity?** no

---

#### Notes
Used for the purpose of assisting the motorists find the appropriate business driveway entrance while the roadway is under construction. The quantity is based on one business sign for each business whose driveway entrance could be affected. When several businesses share a common driveway, one sign per common driveway should be estimated.

---

#### Related Items
**Required**  
SHTabQuant

**Recommended**  
COMP 700-050-03

---

#### Forms
**Design**  
700-050-51

---

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

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

---

#### References
**PPM Chapter**

Other

**Standards**  
Index No. 600

**Specifications**

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

---

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

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 61</td>
<td>BUSINESS SIGN</td>
<td>EA</td>
<td>1/1/2007</td>
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<td></td>
<td></td>
<td>$35.63</td>
</tr>
</tbody>
</table>

---

Details and Structure: Items 000 to 199
TEMPORARY BARRIER WALL

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
PlanQuantity? no

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

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

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

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

NOTE: For bridge applications, ONLY Type K permitted.

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

Forms
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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

Status
Struct. 102- 71- AB TEMPORARY BARRIER WALL LF
A = Operation
1 (Furnish & Install)
2 (Relocate)
B = Material
1 (Concrete)
2 (Water filled)
3 (Low Profile Concrete)
4 (Type K) bridge applications

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 71 11</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, CONCRETE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$20.49</td>
</tr>
<tr>
<td>0102 71 12</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, WATERFILLED</td>
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<td>$33.00</td>
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<tr>
<td>0102 71 13</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, LOW PROFILE, CONCRETE</td>
<td>LF</td>
<td>1/1/2007</td>
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<td>$37.34</td>
</tr>
<tr>
<td>0102 71 14</td>
<td>BARRIER WALL, TEMPORARY, F&amp;I, TYPE K</td>
<td>LF</td>
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<td>0102 71 21</td>
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<td>1/1/2007</td>
<td></td>
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<td>$11.48</td>
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</tbody>
</table>

102- 73-
TEMPORARY GUARDRAIL

Unit: LF; M1
Accuracy: Linear Foot; 10th of a Meter
PlanQuantity?: no

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

For permanent applications, refer to 536 items.

Related Items
Required: SHTabQuant
Recommended: COMP 700-050-03

Forms
Design
Construction
Refer to Comp Book

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

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

References
PPM Chapter
Other
Index No. 400
Specifications
Prep & Doc Manual Chapter(s) 7, 13
TEMORARY GUARDRAIL LF

Notes

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

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0102 73</td>
<td>TEMPORARY GUARDRAIL</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$8.06</td>
</tr>
</tbody>
</table>

102- 74- A TEMPORARY BARRICADE

Notes

Included for the protection of workers and the public from hazards within the traffic control zone. The designer is not to add plan notes specifying one type of barricade (Type I, II, DI, VP, or Drum). Note: DI = Direction Indicator Barricade, which is shown on Index 600. Estimate for each Traffic Control Plan phase based on the type of operation and duration anticipated as follows: Quantity= (Length of Setup / Barricade Spacing) X Phase Duration.

Related Items

Required
Forms
Design   SHTabQuant
Construction   700-050-51

Recommended
Documentation
Design   Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction   Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards   Index No. 600

Specifications

Prep & Doc Manual Chapter(s)   7, 13

ADVANCE WARNING ARROW PANEL

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 74 1</td>
<td>BARRICADE, TEMPORARY, TYPES I, II, DI, VP &amp; Drum</td>
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<td>1/1/2007</td>
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<tr>
<td>0102 74 2</td>
<td>BARRICADE, TEMPORARY, TYPE III, 6'</td>
<td>ED</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$0.38</td>
</tr>
</tbody>
</table>
Basis of Estimates  
Topic No. 600-000-002  
2009 Edition  
October 6, 2008

### ADVANCE WARNING ARROW PANEL

**Unit:** ED  
**Accuracy:** Each Day  
**Plan Quantity:** No

#### Details

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

#### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-51</td>
<td></td>
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</tbody>
</table>

#### Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>7, 13</td>
<td></td>
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#### Notes

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<tr>
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<td>1/1/2007</td>
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</table>

### HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B

**Unit:** ED  
**Accuracy:** Each Day  
**Plan Quantity:** No

#### Details

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

#### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
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<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>700-050-51</td>
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#### Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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#### Notes

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway  
Struct. 102- 76- ADVANCE WARNING ARROW PANEL ED
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tr>
<td>0102 77</td>
<td>HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B</td>
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<td>1/1/2007</td>
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<td>$0.44</td>
</tr>
</tbody>
</table>

**102- 78- TEMPORARY REFLECTIVE PAVEMENT MARKER**

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity**: no

**Notes**

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

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

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

**References**

- **PPM Chapter**: Other
- **Standards**: Index No. 600, 17352
- **Specifications**: Prep & Doc Manual Chapter(s) 7, 13

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

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

**Notes**

Roadway Design Bulletin 08-01, dated 1-14-08: Continue to use steady burn lights on channelizing devices.

**Details**

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

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-51</td>
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<tr>
<td>Documentation</td>
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<tr>
<td>Design</td>
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<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
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<td>Standards</td>
<td>see detail</td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
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</table>

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

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

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
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<tbody>
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<td>LIGHTS,BARRIER WALL MOUNT,TEMP,TYPE C,STEADY BURN</td>
<td>ED</td>
<td>1/1/2007</td>
<td>$0.17</td>
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</tr>
</tbody>
</table>

102-81-2 TEMPORARY CRASH CUSHION -GATING

| Unit | LO | Accuracy | Location | PlanQuantity? | no |
|------|----|----------|----------|---------------|

Notes

Details

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

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation</td>
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<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form</td>
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Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
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<th>Unit</th>
<th>LO</th>
<th>Accuracy</th>
<th>Location</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
</table>

The following are the details for the item 102-89-A:

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

### Related Items

<table>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
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</tbody>
</table>

### Forms

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

### Documentation

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

### References

- **PPM Chapter**
- **Other**
- **Standards**: See detail; Index No. 413, 415, 434, 432, 433, 435, 438, 439, 440, 441, 481, 493, 495, 497, 498

### Specifications

- **Prep & Doc Manual Chapter(s)**: 7, 13

---

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

---

**Status**

**Struct.** 102-89- A

**Notes**

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

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tr>
<td>0102 89 7</td>
<td>CRASH CUSHION/IMPACT ATTENUATOR, TEMPORARY, REDIRECTIVE OPTION</td>
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<td>$1,403.83</td>
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</table>

### 102-94-AB GLARE SCREEN

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: no

**Notes**: See barrier wall detail for measurement. to be used with Temporary Barrier Wall (Concrete)

**Details**

**Required**  
102-71-xab

**Recommended**

**Forms**

- **Design**: SHTabQuant  
- **Construction**: 700-050-51

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**

---

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

**Status**

- **Struct.**: 102-94-AB GLARE SCREEN LF
  
  - A = Operation
  - Blank (Furnish and Install)
  - 1 (Relocate)
  - B = Wall Material
  - 1 (Concrete)

**Notes**

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102 94 1</td>
<td>GLARE SCREEN, TEMPORARY, F&amp;I, WALL MATERIAL-CONCRETE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$12.00</td>
</tr>
<tr>
<td>0102 94 11</td>
<td>GLARE SCREEN, TEMPORARY, RELOCATE, WALL MATERIAL-CONCRETE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$10.00</td>
</tr>
</tbody>
</table>

### 102-98-A BARRICADE TYPE III-TO REMAIN

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: no

**Details**

**Required**

**Recommended**

**Forms**

- **Design**: SHTabQuant  
- **Construction**: 700-050-03

---

Details and Structure: Items 000 to 199

Page 15 of 67
### Details

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

A = Size 2 (6 Feet)

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0102 98 2</td>
<td>BARRICADE TYPE III - TO REMAIN, 6’</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
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<td>$83.60</td>
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</tbody>
</table>

**102-99-**  
**CHANGEABLE VARIABLE MESSAGE SIGN- TEMPORARY**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED</td>
<td>Each Day</td>
<td>no</td>
</tr>
</tbody>
</table>

### Details

Should be considered for use in complex, high-density work zones. Messages must be simple, with a minimum number of words and lines, and should require no more than two displays of no more than three lines each. The Traffic Control Plan (TCP) shall include the location and messages to be displayed. Estimate the number needed for each traffic control plan phase, times the phase duration. Not to be used when standard signs are available. Refer to the Plans Preparation Manual for proper usage.

### Related Items

**Forms**  
**Required**  
Design SHTabQuant  
Construction 700-050-51

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

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

### References

**PPM Chapter**  
Design

**Other**

**Standards** Index No. 600

**Specifications**

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

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0102 99</td>
<td>CHANGEABLE-VARIABLE MESSAGE SIGN, TEMP</td>
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<td></td>
<td>1/1/2007</td>
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</table>

### 102-104- A TEMPORARY TRAFFIC CONTROL SIGNAL

<table>
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<th>Unit</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED</td>
<td>Each Day</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

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

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: COMP 700-050-03

- **Recommended**
  - Design: 700-050-51

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter: 7, 13

**Status**

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

A = Type
1 (Portable)
2 (Fixed)

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL</td>
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<tr>
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<td></td>
<td>$12.51</td>
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</table>

### 102-106- A BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1; EA</td>
<td>Linear Foot; 10th of a Meter; Each</td>
<td>no</td>
</tr>
</tbody>
</table>
Item must be coordinated with Roadway Design prior to opening.

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

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<tbody>
<tr>
<td>Standards</td>
<td>Index No. 600</td>
</tr>
<tr>
<td>Specifications</td>
<td>Plan Detail and/or Tech Spec Required</td>
</tr>
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</table>

PPM Chapter | 6, 7, 13 |

**Notes**

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

**102-107-** TEMPORARY TRAFFIC DETECTION, INTERSECTION

| Unit  | DA  | Accuracy | Day | PlanQuantity? | no |
|-------|-----|----------|-----|---------------|

**Notes**

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

Prep & Doc Manual Chapter(s)

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

**Status**

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

**Notes**

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

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>TEMPORARY TRAFFIC DETECTION, INTERSECT</td>
<td>DA</td>
<td>1/1/2007</td>
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<td></td>
<td>$12.29</td>
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### 102-150- 1 PORTABLE REGULATORY SIGN

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>ED</td>
<td>Each Day</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

This device is part of the Motorist Awareness System (MAS). Design should work with Construction to determine the estimated days for each component of the motorist awareness system to be included in the contract.

Portable Regulatory Sign (PRS): The purpose of this device is to highlight the regulatory speed for the work zone. A PRS is a trailer that has the regulatory sign mounted with flashing lights on each side of the sign. The lights are used to draw the driver's attention to the regulatory speed.

**Related Items**

**Forms**

- **Design**
  - SHTabQuant
- **Construction**
  - 700-050-51

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
  - Index No. 670.
- **Specifications**

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

**Status**

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

**Notes**

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

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0102150 1</td>
<td>PORTABLE REGULATORY, SIGN</td>
<td>ED</td>
<td>1/1/2007</td>
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<td></td>
<td>$14.35</td>
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</table>

### 102-150- 2 RADAR SPEED DISPLAY UNIT

Details and Structure: Items 000 to 199
Radar Speed Display Unit (RSDU): The purpose of this device is to display the motorist's work zone speed. A radar speed display unit is a portable trailer that displays the speed of approaching motorists on a LED display panel. The radar mounted on the unit detects the speed. A regulatory sign with the posted speed is mounted above the LED display panel. The unit is fitted with a device which counts the number of vehicles passing the Radar Speed Display Unit. The counter device is capable of: digital readout of the total number of vehicles passing the radar speed display unit, and digital readout of the number of vehicles exceeding the speed limit shown on the radar speed display unit. The device can be set that only speeds greater than the work zone speed are displayed.

Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications. FOR ITEM 102-911-3 (2102-911-3): Used for Stop bars, turn arrows, etc.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0102911 1</td>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, SKIP</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td>$1.49</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 102-912- A PAVEMENT MARKING REMOVABLE - YELLOW

**Unit**: LF; M1; SF; M2  
**Accuracy**: Linear Foot; 10th of a Meter; Square Foot; Square Meter  
**PlanQuantity?**: no

**Notes**

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

**Details**

Refer to Comp Book

**Related Items**

**Forms**

- Required: SHTabQuant  
- Recommended: COMP 700-050-03

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards: Index No. 600
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0102911 2</td>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, SOLID</td>
<td>LF</td>
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<td>1/1/2007</td>
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<tr>
<td>0102911 3</td>
<td>PAVEMENT MARKING REMOVABLE, WHITE-BLACK, OTHER</td>
<td>SF</td>
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<td>1/1/2007</td>
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<tr>
<td>0102912 1</td>
<td>PAVT MARKING REMOVABLE, YELLOW, SKIP</td>
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<tr>
<td>0102912 2</td>
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<td>1/1/2007</td>
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<td>$1.95</td>
</tr>
<tr>
<td>0102912 3</td>
<td>PAVEMENT MARKING REMOVABLE, YELLOW, OTHER</td>
<td>SF</td>
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<td>1/1/2007</td>
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<td>$2.88</td>
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</table>

---

**103- 1- TEMPORARY WORK STRUCTURE**

**Notes**

Monitor: Robert Robertson, State Structures Design Engineer

Coordinate with the State Structures Design Office on the use of this item.

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

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

State Structures Office must request unblock pay item structure.

**Required**

- Design: SHTabQuantLS
- Construction: Refer to Comp Book

**Recommended**

- Design: COMP 700-050-05
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Related Items**

**Forms**

- Design: SHTabQuantLS
- Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Prep & Doc Manual Chapter(s)**

- 6, 7, 13

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

- 0200 Roadway

**Status**

Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
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<tbody>
<tr>
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<td>TEMPORARY WORK STRUCTURE LS/LS</td>
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<td>1/1/2007</td>
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<td>$18,869.00</td>
</tr>
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</table>

### 104- 1- ARTIFICIAL COVERINGS FOR EROSION CONTROL

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

**Notes**
This item may be used for two purposes. Estimate and/or calculate according to the following information. The total quantity is the sum used for the two purposes below. The quantity and purpose of each should be noted in a pay item footnote.

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

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td><strong>Forms</strong></td>
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<tr>
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<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
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<td><strong>Documentation</strong></td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

PPM Chapter
Other
Specifications

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

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

**Status**

<table>
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<th>104- 1-</th>
<th>ARTIFICIAL COVERINGS FOR EROSION CONTROL</th>
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**Notes**

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

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<td>ARTIFICIAL COVERINGS FOR EROSION CONTROL</td>
<td>SY</td>
<td>1/1/2007</td>
<td>$1.68</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**104- 4- MOwing**

**Notes**

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

Coordinate the use of this item with Sections 570 and 580. DO NOT use this item when payment for mowing is to be made under Section 570.

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

**Related Items**

<table>
<thead>
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<th>Required</th>
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<td>570-1-A</td>
<td>580-1-A</td>
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**Forms**

- **Design:** SHTabQuant
- **Construction:** Refer to Comp Book

**Documentation**

- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

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

---

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

**Status**

**Struct. 104- 4- MOwING AC**

**Notes**

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

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<th>Item</th>
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<tr>
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<td>MOwING</td>
<td>AC</td>
<td>1/1/2007</td>
<td></td>
<td>$511.95</td>
<td></td>
</tr>
</tbody>
</table>

**104- 5- SANDBAGGING**

**Notes**

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
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**Forms**

- **Design:** SHTabQuant
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<tr>
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<td>CY</td>
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<td>1/1/2007</td>
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<td>$202.72</td>
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</tbody>
</table>

### 104- 6- TEMPORARY SLOPE DRAIN

**Notes**

Base estimate as described by Roadway Standard Index No. 100, locations and lengths are required.

**Related Items**

**Required**

**Recommended** 104- 5, 575- 5 (2104-5, 2575-5)

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

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

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

**References**

**PPM Chapter**

**Other**

**Standards** Index No. 100

**Specifications**

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

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

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<tbody>
<tr>
<td>0104 5</td>
<td>SANDBAGGING</td>
<td>CY</td>
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<td>1/1/2007</td>
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<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>0104 6</td>
<td>TEMPORARY SLOPE DRAIN</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$43.34</td>
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</table>

### 104- 7- SEDIMENT BASIN

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Use when separate items for temporary erosion control features are included in the contract. Includes cost for riprap, fencing, baffles, piping, and earthwork, as indicated on Index. Refer to index for estimated quantity.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
</tr>
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<tbody>
<tr>
<td>Required</td>
<td></td>
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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Standards</td>
<td>Index No. 101, 241</td>
<td></td>
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<tr>
<td>Specifications</td>
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</table>

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

### 104- 9- SEDIMENT BASIN CLEANOUT

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
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<tbody>
<tr>
<td></td>
<td>Estimate one cleanout per sediment basin, Item 104- 7 (2104- 7-), on project.</td>
</tr>
</tbody>
</table>

<table>
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<th>Forms</th>
<th>Design</th>
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<th>Design</th>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

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<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
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<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0104</td>
<td>SEDIMENT BASIN CLEANOUT</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

104-10-2 SYNTHETIC BALES

**Unit**: LF; M1  **Accuracy**: Linear Foot; 10th of a Meter

**Notes**

Effective January 2007; replaces 104-10-1 Baled Hay or Straw.

**NOTE**: UNIT OF MEASURE CHANGED TO LINEAR FOOT

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

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other Standards Specifications

**Prep & Doc Manual Chapter(s)**

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 104-10-2 SYNTHETIC BALES LF

**Notes**

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

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<tr>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0104 10 2</td>
<td>SYNTHETIC BALES</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$10.54</td>
</tr>
</tbody>
</table>
### 104-11- A FLOATING TURBIDITY BARRIER

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**
To be included in areas where dredging, filling or other construction activities may cause turbidity in water. Refer to Design Standard Index 103. Used when turbidity standards may be exceeded, as shown in the plans and permit.

Per the specifications (104-9), each location is paid per length, regardless of whether the barrier is new, used, or relocated from a previous location. The designer should estimate based on the tabulated length at each location.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Standards</td>
</tr>
<tr>
<td>Specifications</td>
</tr>
</tbody>
</table>

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

---

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

**Struct.** 104-11- A FLOATING TURBIDITY BARRIER LF  
A = Blank (Standard)

---

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0104 11</td>
<td>FLOATING TURBIDITY BARRIER</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$10.86</td>
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### 104-12- A STAKED TURBIDITY BARRIER

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**

to be included in areas where continuous construction activities change the natural contour and drainage runoff. Should be installed across ditch lines and other temporary locations where construction may interfere with natural runoff. Refer to Design Standard Index 106.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

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

---

**Details and Structure**: Items 000 to 199
STAKED TURBIDITY BARRIER

A = Blank (Standard)
1 (Special) Plan Detail and/or Tech Spec Required

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0104 12</td>
<td>STAKED TURBIDITY BARRIER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$4.73</td>
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</tbody>
</table>

104-13- A STAKED SILT FENCE

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter

Notes

Details

Used for erosion control in areas where construction activities may cause silt runoff. Type III Silt Fence, as detailed in Index No. 102, should be used in most locations. Type IV fence has greater strength and height and should be used where a large sediment load is anticipated (steep fill slopes, long fill slopes, or a combination of both likely to produce a large sediment load).

Each type of silt fence will have an estimated service life of 12 months. The quantity will be developed by estimating the time (in months) the fence will be in place at each location and dividing by 12 (rounding up to the nearest whole) to determine the number of replacements. The total length of fence at each location is determined by multiplying the length of fence at each location by the number of replacements.
### Struct. 104-13- A

**STAKED SILT FENCE LF**

- A = Type
  - 1 (Type III)
  - 2 (Type IV)

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0104 13 1</td>
<td>STAKED SILT FENCE, TYPE III</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td>$1.10</td>
<td></td>
</tr>
<tr>
<td>0104 13 2</td>
<td>STAKED SILT FENCE, TYPE IV</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td>$1.72</td>
<td></td>
</tr>
</tbody>
</table>

### 104-15- SOIL TRACKING PREVENTION DEVICE

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

### Details

Should be constructed at points of egress from unstabilized areas of the project to minimize offsite tracking of sediment. To minimize tracking from the roadway portion of the project, use one device per mile (one device per 2 kilometers) with a minimum of two per project. Include an additional device for each storm water pond or mitigation site that is not adjacent to the roadway right-of-way. RRR projects should be handled on a case-by-case basis.

Payment includes excavation, grading, pipe, filter fabric, aggregate, etc., as indicated in Design Standard 106. Separate payment is made for hay bales and silt fence.

**Related Items**

- **Required** 104-10-1, 104-13-xxa
- **Recommended**

**Forms**

- Design: SHTabQuant  
- Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other: Index No. 106
- Standards: Specifications
- Prep & Doc Manual Chapter(s)

---

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

### Notes

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

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0104 15</td>
<td>SOIL TRACKING PREVENTION DEVICE</td>
<td>EA</td>
<td>1/1/2007</td>
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<td></td>
<td>$2,709.23</td>
</tr>
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</table>
## 104-16- ROCK BAG

<table>
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<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
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</thead>
</table>

**Notes**
Include for the purpose of controlling siltation at curb and gutter inlets as shown in the Design Standards. Bags are to be 12”x12”x4” (0.3 m x 0.3 m x 0.1 m). Estimate 20 bags for each curb inlet.

**Details**

**Related Items**
- **Required**
- **Recommended** 104-10-1,

**Forms**
- **Design** SHTabQuant
- **Construction** COMP 700-050-03

**Documentation**
- **Design** Refer to Comp Book
- **Construction** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**
- PPM Chapter
- Other
- Standards Index No. 102
- Specifications

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

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

**Status**

**Notes**

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

<table>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0104 16</td>
<td>ROCK BAG</td>
<td>EA</td>
<td>1/1/2007</td>
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## 104-17- SAND FENCE

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**
Temporary fence for sand locations, used for erosion control purposes. Tech Specs and/or plan details to include: fence size, slat size, post and fence materials, construction, installation, maintenance, removal, measurement, and payment. Spec to include option to allow fence to remain in place, at the discretion of the Engineer.

**Details**

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

**Forms**
- **Design** SHTabQuant
- **Construction** COMP 700-050-03

**Documentation**
- **Design** Refer to Comp Book
- **Construction** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

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

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

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

### Notes

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

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<tr>
<th>Item</th>
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<td>LF</td>
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**109-71- A FIELD OFFICE**

<table>
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<tr>
<th>Unit</th>
<th>DA</th>
<th>Accuracy</th>
<th>Day</th>
<th>PlanQuantity?</th>
<th>no</th>
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</thead>
</table>

**Notes**

The designer should contact the District Construction Office to determine if this item should be used on a project. Consists of providing, furnishing and maintaining an Engineer's field office for exclusive use by the Department. Type B Fencing shall be used as detailed on Roadway and Traffic Design Standards, Index No. 452 for enclosing the field office. Payment for the fence shall be included in the bid price of the field office.

The field office shall be a building or mobile trailer erected at locations selected by the engineer. The field office shall be paid for at the contract unit price per day, per the specifications, "Provide a Field Office for Department use beginning 10 working days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. Payment will be made for each day the field office is available for use by Department personnel."

### Related Items

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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<td>Construction</td>
<td>700-050-51</td>
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### Documentation

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### References

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<td>Other</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status

**Struct. 109-71- A FIELD OFFICE DA**

A = Size

1 (300 Sq ft)

2 (600 Sq ft)
### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
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<td>0109 71 2</td>
<td>FIELD OFFICE, 600 SQ FT</td>
<td>DA</td>
<td>1/1/2007</td>
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<td>0109 71 3</td>
<td>FIELD OFFICE, 900 SQ FT</td>
<td>DA</td>
<td>1/1/2007</td>
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<td>FIELD OFFICE,1200 SQ FT</td>
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<td>1/1/2007</td>
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<tr>
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<td>FIELD OFFICE,1500 SQ FT</td>
<td>DA</td>
<td>1/1/2007</td>
<td>$91.21</td>
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</table>

### 110- 1- 1 CLEARING AND GRUBBING

**Unit** LS/AC; LS/HA  
**Accuracy** Lump Sum (1/100th of an Acre); Lump Sum (1/100th of a Hectare)  
**PlanQuantity?** yes

**Notes**

Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions in all areas where excavation is to be done, or where embankments or structures will be constructed. This includes roadway area, ditch area, borrow and material pits, and areas where culverts or pipe lines will be constructed. Code the number of acres (hectares). Locate or define the scope of work involved on the contract plans. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

**Related Items**  
**Required** SBEHWK; SBEarthwork  
**Recommended** COMP 700-050-05

**Design** Refer to Comp Book

**Form**

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

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

**References**  
**PPM Chapter**  
**Other**  
**Specifications**

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

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

### Status

**Struct.** 110- 1- 1 CLEARING AND GRUBBING LS/AC

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0110 1 1</td>
<td>CLEARING &amp; GRUBBING</td>
<td>LS</td>
<td>1/1/2007</td>
<td>$11,272.71</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Details and Structure: Items 000 to 199
110- 2- 1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Unit AC; HA  Accuracy 10th of an Acre; 10th of a Hectare

Notes

Details FOR PUSH BUTTON CONTRACTS ONLY
Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions identified in the plans or specifications. Locate or define the scope of work involved. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

Related Items

- Required
- Recommended

Forms

- Design SBEHWK; SBEarthwork
- Construction Refer to Comp Book

Documentation

- Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 110- 2- 1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Notes

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 2 1</td>
<td>CLEARING &amp; GRUBBING (PUSH BUTTON CONTRACT)</td>
<td>AC</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$12,540.00</td>
</tr>
</tbody>
</table>

110- 3- REMOVAL OF EXISTING STRUCTURE

Unit LS/SF; LS/M2  Accuracy Lump Sum (Square Foot); Lump Sum (Square Meter)

Notes

Details to be used for the removal of existing bridge structures and box culverts. Includes all work of removal (complete and/or partial), and disposal of the designated structures. Code the number of square feet (square meters), out-to-out of coping from begin bridge to end bridge.

If bridge debris is to be delivered to another agency, refer to specifications for delivery location. Delivery costs are included in the price for Removal of Existing Structure. Add pay item note in plans that address bridges to be completely removed and bridges to be partially removed. Tabulate bridges by bridge number and deck area to be removed. Quantities to be based on out-to-out of coping from begin bridge to end bridge or from coping line to saw cut line from begin bridge to end bridge as applicable. Do not include rip-rap, fill slope area in removal quantity. Cover items to be removed in pay item note.
Insert existing bridge plans into plan set. Show existing piling on Foundation Layout Sheet that requires complete removal (conflict with proposed foundations, or conflicts with future channel dredging per permit requirements, etc.).

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
</tbody>
</table>

### References

- PPM Chapter
- Other
- Standards
- Specifications

Prep & Doc Manual Chapter(s)  6, 13

### TRNS*PORT Category (DRAFT FIELD):

0200  Roadway

### Status

Struct.  110-3-  REMOVAL OF EXISTING STRUCTURE  LS/SF

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0110 3</td>
<td>REMOVAL OF EXISTING STRUCTURE</td>
<td>LS</td>
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<td>1/1/2007</td>
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<td>$40.83</td>
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### Related Items

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<th>Recommended</th>
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<td>Forms</td>
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<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

- PPM Chapter
- Other
- Standards
- Specifications

Prep & Doc Manual Chapter(s)  7, 13

---

**Details and Structure:** Items 000 to 199
TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>REMOVAL OF EXISTING CONCRETE PAVEMENT SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$13.00</td>
</tr>
</tbody>
</table>

110- 5- PLUGGING WATER WELL- ARTESIAN

Unit EA Accuracy Each PlanQuantity? no

Details Artesian is defined in specifications as "an artificial hole in the ground from which water supplies may be obtained and which penetrates any water bearing rock, the water in which is raised to the surface by natural flow…”

Related Items Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>PLUGGING WATER WELLS, ARTESIAN EA</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2,115.01</td>
</tr>
</tbody>
</table>

110- 6- PLUGGING WATER WELL- NON-ARTESIAN

Unit EA Accuracy Each PlanQuantity? no

Details Non-Artesian is defined in the specifications as "a well in which the source of water is an unconfined aquifer. The water… does not rise above the source bed.”

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 6</td>
<td>PLUGGING WATER WELLS, NON-ARTESIAN</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2,567.76</td>
</tr>
</tbody>
</table>

### 110-7- A MAILBOX

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

#### Notes

- **Details:** Used for replacement of residential or business mailboxes that must be removed during construction operations. Refer to Index 532 for details.

#### Related Items

- **Required Forms:** Design SHTabQuant  
- **Recommended Forms:** Construction COMP 700-050-03

#### Documentation

- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter:** Design  
- **Other Standards:** Index No. 532  
- **Specifications:** Prep & Doc Manual Chapter(s) 7, 13

---

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

---

**Struct.** 110-7- A MAILBOX EA

A = Description  
1 (Furnish & Install Single)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>MAILBOX, F&amp;I SINGLE</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$136.42</td>
</tr>
</tbody>
</table>

### Notes

**UNDERWATER DEBRIS REMOVAL**

**Unit** DA; TN; MT  
**Accuracy** Day; Ton; Metric Ton  
**PlanQuantity?** no

**Details**

The specification must describe the item in detail, including its acceptance criteria, method of measurement, and for lump sum items, any secondary units of measure. This item should only be used when the designer is reasonably sure of the number of days which will be required for the task. The daily unit cost for the cranes and barges typically used in this item is relatively high and can quickly lead to large overrun costs if the number of days cannot be accurately estimated. Item 110-3 (2110-3) is a more appropriate item to use when an accurate estimate of days required cannot be made.

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

**Related Items**

**Required** SHTabQuant  
**Recommended** COMP 700-050-03

**Forms**

**Design** 700-050-51  
**Construction**

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other  
Standards  
Specifications

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

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

**Struct.**

110-8- A UNDERWATER DEBRIS REMOVAL DA; TN  
A = Method of Measurement  
blank (Day) DA  
1 (Weight) TN

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110</td>
<td>UNDERWATER DEBRIS REMOVAL</td>
<td>DA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$7,291.11</td>
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</tbody>
</table>

### Notes

**HYDRODEMOLITION**

Details and Structure: Items 000 to 199
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-01
- Construction: Refer to Comp Book

**Documentation**

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

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

**References**

**PPM Chapter**
- 6, 7, 13

**Other**
- Standards
- Specifications

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

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

**Status**

**Struct.** 110-12- A HYDRODEMOLITION SY; SF

A = Description/Unit of Measure
1 (Removal Of Deck Surface) SY
2 (Removal Of Concrete Curb) SF

**Notes**

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

**Item** 0110 12 1 HYDRODEMOLITION, REMOVAL OF DECK SURFACE SY T 1/1/2007 $67.41

**110-71-1 BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- REHAB PROJECTS ONLY**

**Unit** LF; M1
**Accuracy** Linear Foot; 10th of a Meter
**PlanQuantity?** no

**Notes**

For use on Fender System Rehab projects only.
For projects with bridge and fender system replacement, payment for removal and disposal of existing fender system is included under Removal Of Existing Structures, item 110-3. Plan Details and/or Tech Spec must address proper disposal of timber, as well as measurement and payment of rehab work. Refer to Section 110 of Specifications.

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

**Details and Structure: Items 000 to 199**
### 110-71-1 BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL - LF REHAB PROJECTS ONLY

#### Required
- **Standards**
- **Specifications**

#### Recommended
- **Design** SHTabQuant
- **Construction** COMP 700-050-03

---

### 110-73- REMOVE EXISTING BULKHEAD

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

#### Related Items
- **Forms**
  - **Design** SHTabQuant
  - **Construction** Refer to Comp Book
- **Documentation**
  - **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).
- **References**
  - **PPM Chapter**
  - **Other**
  - **Standards**
  - **Specifications**

#### Plan Detail and/or Tech Spec Required
- **Prep & Doc Manual Chapter(s)** 6, 7, 13
Basis of Estimates

2009 Edition
October 6, 2008

Struct. 110-73- REMOVE EXISTING BULKHEAD LF

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0110 73</td>
<td>REMOVE EXISTING BULKHEAD</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$51.55</td>
</tr>
</tbody>
</table>

110-82- REMOVE & DISPOSE STRUCTURAL TIMBER

Unit MB; M3 Accuracy 10th of a Thou Board Measure; 10th of a Cubic Meter PlanQuantity? no

Notes
Details
one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.

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

Related Items
Required
Forms Design SHTabQuant
Construction 700-050-04
    700-050-56

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

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

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

Details and Structure: Items 000 to 199
### 110-000-002 Basis of Estimates

**Notes**

**Details**

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

**Related Items**

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

<table>
<thead>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>Other</td>
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</tr>
<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
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</table>

**Plan Detail and/or Tech Spec Required**

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

---

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

---

**Notes**

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

---

**110-84-**

TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

**Notes**

Valid for maintenance use. Detail cleaning requirements in the plans or specifications.

**Related Items**

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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**References**

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<th>Design</th>
<th>Construction</th>
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<tr>
<td>Other</td>
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<tr>
<td>Standards</td>
<td></td>
<td></td>
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<tr>
<td>Specifications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Plan Detail and/or Tech Spec Required**

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

---

**Details and Structure:** Items 000 to 199

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

### 110- 86- DELIVERY OF SALVAGEABLE MATERIAL TO FDOT

**Notes**

- Designer must coordinate with Maintenance Office prior to using this item. Plan note as to delivery location of salvageable material must be included.

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

**Related Items**

- **Required**
  - Design: SHTabQuantLS
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-05

**Documentation**

- Construction: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

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

**References**

- PPM Chapter
- Other
- Standards
- Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 7, 13

---

### 120- 1- REGULAR EXCAVATION

**Notes**

- Unit: CY; M3
- Accuracy: Cubic Yard; Cubic Meter
- PlanQuantity?: yes

---

**Details and Structure:** Items 000 to 199
Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of excavation on the project.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SBEHWK; SBEearthwork</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
|               | Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

- **PPM Chapter**
- **Other**
- **Standards** Index No. 285, 500, 505
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 6, 13

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

**Status**

**Struct.** 120-1- REGULAR EXCAVATION CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0120 1</td>
<td>REGULAR EXCAVATION</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$5.09</td>
</tr>
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</table>

**120-2- A BORROW EXCAVATION**

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

**Notes**

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

TRUCK MEASURE: This item should only be used on projects with limited or no cross sections. The method to determine the quantity of borrow excavation is as follows:

\[
\text{Fill} \times \text{Fill Adjustment Factor} \times \text{Truck Adjustment Factor} = \text{Borrow Excavation (Truck Measure)}.
\]

For example, if the fill adjustment is 20%, the fill adjustment factor is 1.2; and if the truck adjustment is 25%, the truck adjustment factor is 1.25

Applied to the above equation, an original fill amount of 253 CY would become:

\[
253 \times 1.2 \times 1.25 = 380 \text{ CY of Borrow, Truck Measure}
\]

Note- the adjustments vary based on the type of material. Per the PPM, contact the District Materials of District Construction Office for project specific numbers.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.
### Required and Recommended

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 2 2</td>
<td>BORROW EXCAVATION, TRUCK MEASURE</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$10.03</td>
</tr>
</tbody>
</table>

### Notes

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

1. **BORROW EXCAVATION CY**
   - **A = Measure Type**
   - **2 (Truck Measure)**

2. **LATERAL DITCH EXCAVATION**
   - **Unit** CY; M3
   - **Accuracy** Cubic Yard; Cubic Meter
   - **Plan Quantity?** yes
   - **Details**
     Consists of excavation on portions of lateral ditches beyond the limits of the roadway ROW. Includes inlet and outlet ditches, ditches parallel to the roadway, and may include channel excavation if Item 120-5 (2120-5) is not used.
   - **Related Items**
     - **Forms**
       - **Design** SBEHWK; SBEarthwork
       - **Construction** COMP 700-050-04
     - **Documentation**
       - **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
       - **Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
   - **Related Items**
     - **PPM Chapter** Chapter 3
     - **Other**
     - **Standards** Index No. 500, 505
     - **Specifications**
     - **Prep & Doc Manual Chapter(s)** 6, 8, 13

---

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

**Status**

**Struct. 120-2-A BORROW EXCAVATION CY**

- **A = Measure Type**
- **2 (Truck Measure)**

---

**Details and Structure: Items 000 to 199**
**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 120-3-  LATERAL DITCH EXCAVATION  CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 3</td>
<td>LATERAL DITCH EXCAVATION</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$20.07</td>
</tr>
</tbody>
</table>

**Notes**

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. Consists of excavation and disposal of muck, clay, rock or other material that is unsuitable in its original position, and that is excavated below the finished grade line template. Also includes all suitable material necessary to be removed in order to excavate the unsuitable material. The areas used to calculate subsoil excavation must also be used in calculating the fill areas, if material is to be replaced.

**Related Items**

**Required**

120-2-2 or 120-6 (2120-2-2 or 2120-6)

**Recommended**

120-2-2 or 120-6 (2120-2-2 or 2120-6)

**Forms**

**Design** SBEHWK; SBEarthwork  COMP 700-050-04

**Construction**

Refer to Comp Book

**Documentation**

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

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

**References**

**PPM Chapter**

**Other**

Index No. 500, 505

**Standards**

**Specifications**

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

**Status**

**Struct.** 120-4-  SUBSOIL EXCAVATION  CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 4</td>
<td>SUBSOIL EXCAVATION</td>
<td>CY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$10.89</td>
</tr>
</tbody>
</table>

**Notes**

Consists of excavation and disposal of all material from the limits of the channel, within the...
lines and grades indicated in the plans and permit.

### Related Items

**Forms**
- **Required**
  - Design: SBEHWK; SBEarthwork
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 9, 13

### TRNS*PORT Category (DRAFT FIELD):

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0120-5</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$22.96</td>
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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>0120-6</td>
<td>EMBANKMENT</td>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

### Notes

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

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of embankment on the project.

### Related Items

**Forms**
- **Required**
  - Design: SBEHWK; SBEarthwork
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**
  - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 9, 13

### TRNS*PORT Category (DRAFT FIELD):

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120-5</td>
<td>CHANNEL EXCAVATION</td>
<td>CY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0120-6</td>
<td>EMBANKMENT</td>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>
## Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 6</td>
<td>EMBANKMENT</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$8.88</td>
</tr>
</tbody>
</table>

### 120-71- REGULAR EXCAVATION (3R PROJECTS ONLY)

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

**Notes**

Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. To be used only on resurfacing or minor widening and resurfacing projects which conform to the guidelines in the Plans Preparation Manual. The designer will calculate quantities based on information obtained from the field and the proposed typical section. The designer will continue to show the Summary of Earthwork in the plans. The summary should show all quantities and adjustments. Effective 7/2000 letting: This item should be used on projects with limited or no cross sections, to pay for the quantity of excavation on the project. Item 120-2-2 (2120-2-2) should be considered.

**Related Items**

**Required**: SHTabQuantLS  
**Recommended**: COMP 700-050-05

**Forms**

**Design**: Refer to Comp Book  
**Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter  
Other  
Standards  
Specifications  
Prep & Doc Manual Chapter(s): 7, 13

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

**Struct.**: 120-71- REGULAR EXCAVATION (3R PROJECTS ONLY)  
**Unit**: LS/LS

### 120-72- GRAVEL FILL

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

**Notes**

Details and Structure: Items 000 to 199
Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

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

Details

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>700-050-54</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.</td>
</tr>
</tbody>
</table>

References

- PPM Chapter
- Other
- Standards
- Specifications

Plan Details and/or Tech Spec required.

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 120-72- GRAVEL FILL CY

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 72</td>
<td>GRAVEL FILL</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$188.82</td>
</tr>
</tbody>
</table>

120-73- LIGHTWEIGHT AGGREGATE FILL

| Unit | CY; M3 | Accuracy | 10th of a Cubic Yard; 10th PlanQuantity? | no of a Cubic Meter |

Details

Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

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

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
</tbody>
</table>
**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  9, 13

---

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

**Status**

**Struct.**  120- 73-  LIGHTWEIGHT AGGREGATE FILL  CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120 73</td>
<td>LIGHTWEIGHT AGGREGATE FILL</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**120- 74-**  SURCHARGE EMBANKMENT

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

**Notes**

The work of constructing surcharge fills, as shown in the plans and any extensions thereof, directed by the engineer, shall be included in the price and payment for surcharge embankment. The quantity shall be measured as provided in 120-12.2, with the exception that the original ground line used in computations shall be the finished grading template for the permanent construction. The measurement shall include only surcharge material actually placed above the original ground line (as defined above) and within the lines and grades for surcharge construction, as indicated in the plans or directed by the engineer. No allowance will be made for subsidence of material below the original ground line, as defined above. The price and payment for surcharge embankment shall be full compensation for all work required to construct and remove surcharge fills, including furnishing from areas provided by the contractor and borrow excavation required. Surcharge embankment requires a Technical Specification.

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

**Related Items**

**Required**

**Design**  SHTabQuant  
**Construction**  Refer to Comp Book

**Recommended**

**Design**  COMP 700-050-04  
**Construction**  

**Documentation**

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

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

**References**

**PPM Chapter**

**Other**

**Standards**
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0120</td>
<td>SURCHARGE EMBANKMENT CY</td>
<td>CY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$26.81</td>
</tr>
<tr>
<td>121- 70-</td>
<td>FLOWABLE FILL CY</td>
<td>CY; M3</td>
<td>Accuracy Cubic Yard; Cubic Meter</td>
<td>PlanQuantity? no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes

Details

Applications for flowable fill include: beddings, encasements, closure for tanks, pipes, and general backfill for trenches.

Related Items

Required

Design

SHTabQuant

Construction

Refer to Comp Book

Documentation

Design

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

Construction

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

References

PPM Chapter

Other

Standards

Index No. 307

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 121- 70- FLOWABLE FILL CY

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0121</td>
<td>FLOWABLE FILL</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$166.33</td>
</tr>
</tbody>
</table>

125- 1- EXCAVATION FOR STRUCTURES

Notes

Details

Includes excavation for bridge foundations, box culverts, pipe culverts, retaining walls,
headwalls for pipe culverts and drains, manholes, and similar structures.
Direct Payment: refer to Method of Measurement in specifications.
No Direct Payment: work is included in the price for concrete or other related items.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
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</table>

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 125-1- EXCAVATION FOR STRUCTURES CY

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0125</td>
<td>EXCAVATION FOR STRUCTURES</td>
<td>CY</td>
<td>no</td>
<td>1/1/2007</td>
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<td>$66.60</td>
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</tbody>
</table>

125-3- SELECT BEDDING MATERIAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>CY; M3</td>
<td>Cubic Yard; Cubic Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

No payment for this material will be made when available from excavation of pipe culvert or from other material from grading operations at a location not sufficiently remote to require loading on trucks.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Construction</td>
<td>700-050-54</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.</td>
</tr>
</tbody>
</table>

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13
### SELECT BEDDING MATERIAL

**Unit:** CY  
**TSP/Detail:** 1/1/2007  
**LRE Ref Price:** $90.56

---

### SETTLEMENT PLATE ASSEMBLY

**Unit:** AS; EA  
**Accuracy:** Assembly; Each  
**PlanQuantity?** no

---

### SAND FILL

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

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>700-050-54</td>
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### Documentation

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<th>Recommended</th>
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<tr>
<td><strong>Design</strong></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
</tr>
</tbody>
</table>

### Notes

Plan Detail and/or Tech Spec Required

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

### TRNS*PORT Category (DRAFT FIELD):

| 0200 | Roadway |

### Status

Inactive Structure

### Struct.

| 142-70- | SAND FILL |

| CY |

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0142 70 FILL SAND CY</td>
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<td>CY</td>
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<td>$35.91</td>
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</table>

### 144-1- A DIGITAL INCLINOMETER CASING

<table>
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<tr>
<th>Unit</th>
<th>LF; M1</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Notes

Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

### Details

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

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

### Documentation

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design</strong></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

| Standards |

---

Details and Structure: Items 000 to 199
### Specifications

**Plan Detail and/or Tech Spec Required**

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

---

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

### Status

**Struct.** 144- 1- A DIGITAL INCLINOMETER CASING LF

A = Description
1 (Vertical)
2 (Horizontal)

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0144 1</td>
<td>DIGITAL INCLINOMETER CASING, VERTICAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>6/30/2009</td>
<td>$21.33</td>
<td></td>
</tr>
</tbody>
</table>

### 144- 71-

**PORE-PRESSURE TRANSDUCER (PIEZOMETER)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer</td>
<td></td>
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<tr>
<td>Details</td>
<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
<td></td>
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</tbody>
</table>

### Related Items

**Forms**

- **Required**
  - Design: SHTabQuant
- **Recommended**
  - CONSTRUCTION: COMP 700-050-03

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

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

---

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

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 0144 71
**Description**: PORe-PressurE Transducer, Piezometer
**Unit**: EA
**TSP/Detail**: T
**Valid Date**: 1/1/2007
**Obsolete Date**: 6/30/2009
**Ref**: 
**Price**: $1,800.00

#### 144- 72-
**Description**: TUBING FOR PIEZOMETER
**Unit**: LF; M1
**Accuracy**: Linear Foot; 10th of a Meter
**Plan Quantity?**: no

**Details**
Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

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

**Related Items**
**Required**
Design: SHTabQuant
Construction: Refer to Comp Book

**Recommended**
Design: COMP 700-050-03

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

**References**
**PPM Chapter**
**Other**
**Standards**
**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**: 7, 13

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

**Struct.** 144- 72-
**Description**: TUBING FOR PIEZOMETER
**Unit**: LF

**Notes**

---

### 0144 73
**Description**: DIGITAL INCLINOMETER
**Unit**: EA
**Accuracy**: Each
**Plan Quantity?**: no

**Details**
Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer

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

**Related Items**
**Required**
Design: SHTabQuant
Construction: Refer to Comp Book

**Recommended**
Design: COMP 700-050-03

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

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 144- 73- DIGITAL INCLINOMETER EA

<table>
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<td>Related Items</td>
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<tr>
<td>Forms</td>
<td>Design SHTabQuant</td>
<td>COMP 700-050-03</td>
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</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

- 7, 13

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

**Notes**

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

---

### 144- 74- PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT

<table>
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<tr>
<th>Unit</th>
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<th>Each</th>
<th>Plan Quantity?</th>
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<tr>
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<tr>
<td>Details</td>
<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
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<td>Related Items</td>
<td>Required</td>
<td>Recommended</td>
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<td>Forms</td>
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<td>COMP 700-050-03</td>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Design</td>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

- 7, 13

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

**Notes**

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
145- 1- GEOSYNTHETIC REINFORCED SOIL SLOPE

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter  
**PlanQuantity?**: yes

**Notes**
Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.

**Details**
Plan measurement will be based on the projected height of the slope face, from top of slope to the ground line at the toe of slope. Refer to the specifications.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
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</table>

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

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

**Status**

<table>
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<th>Struct.</th>
<th>145- 1-</th>
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</thead>
</table>

**Notes**

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

1. **Item**: 0145 1  
   **Description**: GEOSYNTHETIC REINFORCED SOIL SLOPE  
   **Unit**: SF  
   **TSP/Detail**: 1/1/2007  
   **Obsoleted Date**:  
   **LRE Ref Price**: $4.81

145- 2- GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL

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

**Notes**
Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.
Plan measurement will be based on the area of embankment to be reinforced. Refer to specifications.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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### Documentation

<table>
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<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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</table>

### Notes

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

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

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

### Status

#### Struct.

145-2- GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0145 2</td>
<td>GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL</td>
<td>SY</td>
<td>1/1/2007</td>
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<td>$7.24</td>
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</tbody>
</table>

### 145-71- A REINFORCEMENT GRID

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

### Notes

Future use will require Specification Development

### Details

Geosynthetic Reinforced Roadway Base for Construction Expedient

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

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

### Documentation

<table>
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<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index No. 501</td>
<td></td>
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</tbody>
</table>

---

**Details and Structure:** Items 000 to 199

---
Specifications

Plan Detail and/or Tech Spec Required

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 145-71- A  REINFORCEMENT GRID SY

A = Description
1 (Biaxial Type 1)
2 (Biaxial Type 2)
3 (Biaxial Type 3)

Notes  Future use will require Specification Development

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0145 71 1</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 1</td>
<td>SY</td>
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<td>0145 71 2</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 2</td>
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<tr>
<td>0145 71 3</td>
<td>REINFORCEMENT GRID, BIAXIAL TYPE 3</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$30.00</td>
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</table>

160-3- COMMERCIAL STABILIZING MATERIAL

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

Notes  Contact the District Soils Engineer for basis of estimate on each project. Show basis.

Details  Related Items

Required  Recommended

Forms

Design SHTabQuant COMP 700-050-04
Construction 700-050-54

Documentation

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

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status  160- 3-  COMMERCIAL STABILIZING MATERIAL  CY

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<tr>
<td>0160 3</td>
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</table>

### 160- 4- TYPE B STABILIZATION

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

**Notes**
Consists of stabilizing designated portions of the roadbed to provide a firm and unyielding subgrade. Stabilizing material can be obtained from existing base material, or from commercial and local materials.

**Related Items**
- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-01

**Documentation**
- **Design**: Refer to Comp Book  
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**:  
- **Index No. 506**
- **Specifications**:  
- **PPM Chapter Design**:  
- **PPM Chapter Construction**:  
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

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

**Status**
- **Struct.**: 160- 4- TYPE B STABILIZATION SY

### 160- 6- STABILIZED SUBBASE

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

**Notes**
Stabilized subbase intended to strengthen the upper portion of the subgrade. Refer to Section 180 (180 items) for Special Select Stabilized Subbase.

**Related Items**
- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-01

**Documentation**
- **Design**: Refer to Comp Book  
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities

Details and Structure: Items 000 to 199
sheet in the plans, or detail calculations in the computation book.

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

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

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

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

### Status

**Struct.** 160- 6- STABILIZED SUBBASE SY

### Notes

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

<table>
<thead>
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<th>Item</th>
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<th>LRE Ref Price</th>
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</table>

**162- 1- AB PREPARED SOIL LAYER**

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**Plan Quantity?** no

**Notes**
Not to be used for Section 580: Landscape Operations. Refer to 580 specifications.

FINISH SOIL LAYER: to be used for areas to be seeded, seeded and mulched, or planted. (Included for sodded areas when called for in the plans.) Refer to 162 specifications.

ORGANIC SOIL LAYER: only when required by permit. 6" depth.

BLANKET MATERIAL: only when required by permit. Show depth in plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Selected items to be used by Permit only

**Prep & Doc Manual Chapter(s)**

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

### Status

**Struct.** 162- 1- AB PREPARED SOIL LAYER SY

Details and Structure: Items 000 to 199
### Notes

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<td>0162 1 11</td>
<td>PREPARED SOIL LAYER, FINISH SOIL LAYER, 6&quot;</td>
<td>SY</td>
<td>1/1/2007</td>
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#### 173- 71- DRILLING HOLES FOR PRESSURE GROUTING

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

**Notes**

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

**Related Items**

**Forms**

**Required** | SHTabQuant  
**Recommended** | COMP 700-050-03

**Documentation**

**Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Other**  
**Standards**  
**Specifications**

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

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

### Status

**Struct.** 173- 71- DRILLING HOLES FOR PRESSURE GROUTING EA

### Notes

Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
<td>0173 71</td>
<td>DRILLING HOLES FOR PRESSURE GROUTING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$306.00</td>
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</table>

### 173- 76- GROUT PIPE INSTALLATION

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**

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

**Related Items**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: Refer to Comp Book  
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

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

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

- **Plan Detail and/or Tech Spec Required**
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

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

**Status**

**Struct.**: 173- 76- GROUT PIPE INSTALLATION  
**LF**

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
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<th>TSP/Detail</th>
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<td>0173 76</td>
<td>GROUT PIPE INSTALLATION</td>
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<td>1/1/2007</td>
<td></td>
<td>$18.12</td>
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</table>

### 173- 77- A SUBSURFACE PRESSURE GROUTING

**Unit**: CY; M3  
**Accuracy**: 10th of a Cubic Yard; 10th of a Cubic Meter  
**PlanQuantity?**

**Notes**

Contact the State Structures Design Office prior to using this item.  
This item to be used for subsurface applications only. May be used for sinkhole repair.  
Tech Specs should indicate that this item includes all work and materials for grout injection; drilling holes and grout pipe may be paid separately under related 173 items. Clearly define material properties in specifications.  
For concrete structures, refer to Structures items 400 to 460.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
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<tr>
<td>Forms</td>
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<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
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<td>COMP 700-050-04/07</td>
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</table>

| Documentation | Design | Refer to Comp Book |
|              | Construction | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
|              | Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

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<th>Standards</th>
<th>Specifications</th>
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<td>Other</td>
</tr>
<tr>
<td>Standards</td>
<td>Specifications</td>
</tr>
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</table>

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

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

**Struct.**  173- 77- A  SUBSURFACE PRESSURE GROUTING  CY

A= Grout Material
1 (Sand-Cement)
2 (Sand Cement with Calcium Chloride) CaCl_2
3 (Cement Slurry)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0173 77 1</td>
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<td>0173 77 3</td>
<td>SUBSURFACE PRESSURE GROUTING, CEMENT SLURRY</td>
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**175- 1- RESEATING CONCRETE PAVEMENT**

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<th>Accuracy</th>
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</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Perform controlled cracking of concrete pavement and reseating of the cracked slabs, by rolling, tamping, etc., on the underlying subgrade to provide a firm base for asphalt concrete surfacing.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>
Topic No. 600-000-002
Basis of Estimates

Construction

Refer to Comp Book

Documentation

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

Construction

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

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 175-1-

RESEATING CONCRETE PAVEMENT SY

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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</tbody>
</table>

180-70-

STABILIZED SUBBASE

Unit SY; M2

Accuracy Square Yard; Square Meter

PlanQuantity? yes

Notes

Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.

Details

Refer to specifications- compare Section 160 and 180 prior to requesting item(s).

Related Items

Required Design SHTabQuant

Recommended COMP 700-050-01

Forms

Construction Refer to Comp Book

Documentation

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

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

References

PPM Chapter

Other

Standards

Specifications

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 180-70-

STABILIZED SUBBASE SY

Details and Structure: Items 000 to 199
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
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<td>1/1/2008</td>
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</table>

### 180-72- RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL

**Unit**: SY; M2  
**Accuracy**: Square Yard; Square Meter  
**Plan Quantity?**: yes

**Notes**: Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</table>

**References**

PPM Chapter
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s): 6, 7, 13

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

**Status**

**Struct.**: 180-72- RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0180 72</td>
<td>STABILIZED SUBBASE FOR RIGID PAVEMENT- SPECIAL SELECT</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
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</table>

---

Details and Structure: Items 000 to 199
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Chapter 12
Items 200 to 299
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**210- 1- AA REWORKING LIMEROCK BASE**

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

**Notes**

**Details**
Rework (or rework and widen) the existing rock base, by adding new limerock material as required by the plans. Construct adjacent turnouts, entirely with new limerock.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
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</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>

**References**

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

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

**Status** Inactive Structure

**Struct.** 210- 1- AA REWORKING LIMEROCK BASE SY

AA = Thickness  
1 (6")  
2 (8" D-CSE)  
3 (10" D-CSE)  
4 (Var. Thickness)  
5 (5")  
6 (12" D-CSE)  
7 (9" D-CSE)  
8 (4")  
9 (3")  
11 (14" T-CSE)  
12 (16" T-CSE)  
13 (11" D-CSE)  
14 (Var. Thickness 4 1/2" Avg.)  
15 (Var. Thickness 12 1/2" Avg.)  
16 (7")  
17 (13" D-CSE)  
18 (14" D-CSE)  
19 (Var. Thickness 7 1/2" Avg.)  
20 (Var. Thickness 9" Avg.)  
21 (4 1/2")  
22 (9 1/2")

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0210 1 1</td>
<td>REWORKING LIMEROCK BASE, 6&quot;</td>
<td>SY</td>
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<tr>
<td>0210 1 9</td>
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<td>1/1/2007</td>
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<td>$50.00</td>
</tr>
</tbody>
</table>

### 210- 2- LIMEROCK, NEW MATERIAL

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

**Notes**
Measurement, from specification: The quantity to be paid for will be the number of cubic yards of only the new limerock material actually placed in the road and accepted. The quantity will be determined by measurement in loose volume, in truck bodies, at the point of dumping on the road, with proper deduction for all materials wasted, left in trucks or otherwise not actually used in the road. For this purpose, level the material in the truck bodies to facilitate accurate measurement.

**Related Items**
- **Required**: Design SHTabQuant  
- **Recommended**: COMP 700-050-04

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

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

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

**Status**: Inactive Structure

**Struct.**: 210- 2- LIMEROCK, NEW MATERIAL

### 230- 2- LIMEROCK MATERIAL

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

**Notes**
Refer to specifications for correct usage; consider optional base pay item when possible.

**Related Items**
- **Required**: Design SHTabQuant  
- **Recommended**: COMP 700-050-04

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
### Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 6, 13

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

### Status
- **Inactive Structure**

### Struct.
- **230-2**
- **LIMEROCK MATERIAL**
- **CY**

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

### 285-7AA- OPTIONAL BASE

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

### Notes
Consists of base construction of one of the optional materials shown in the plan typical sections. The plans will include typical sections specifying only the base group on new construction and complete reconstruction projects, permitting the maximum number of general use options that the contractor can utilize. Note that there are still limitations given in the notes. Also, the designer can still specify base materials, if this is appropriate for the project. The Optional Base item is also used when specifying only one option, such as ABC III. The quantity must include a 4" (0.1 m) overhang, as shown on the typical section for rural projects.

**NOTE:** The cost of prime or tack coats used between layers of the base are included in the cost of the Optional Base.

### Related Items

#### Forms
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-01

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

- **Recommended**
  - **Design**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References
- **PPM Chapter**
- **Other**
- **Standards**: Index No. 514
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 6, 9, 13

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

### Status
- **Inactive Structure**

### Struct.
- **285-7AA-**
- **OPTIONAL BASE**
- **SY**
AA = Is 01 Thru 15 which indicates Base Group, as shown on Index 514

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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</table>

286-  1-  TURNOUT CONSTRUCTION

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

Details

Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of base course, and specifically excludes placing of AC surface course.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBTURN; SBTurnouts</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

Documentation

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

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

References

PPM Chapter

Other

Standards  Index No. 516

Specifications

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

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  286-  1-  TURNOUT CONSTRUCTION  SY

Details and Structure: Items 200 to 299
## Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0286 1</td>
<td>TURNOUT CONSTRUCTION</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$18.79</td>
</tr>
</tbody>
</table>

### 286-2- TURNOUT CONSTRUCTION- ASPHALT

**Unit**: TN; MT  
**Accuracy**: 10th of a Ton; 10th of a Metric Ton  
**PlanQuantity?**: no

**Notes**

Details

Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of asphalt base course, and specifically excludes placing of AC surface course.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>
| Design   | SBTURN; SBTurnouts  
           | COMP 700-050-06  
           | 700-050-56 |
| Construction | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
           | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter

Other

Standards  

Index No. 516

Specifications

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

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

**Status**

**Struct. 286-2- TURNOUT CONSTRUCTION- ASPHALT**

**TN**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0286 2</td>
<td>TURNOUT CONSTRUCTION- ASPHALT</td>
<td>TN</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$156.22</td>
</tr>
</tbody>
</table>

### 287-1- ASPHALT TREATED PERMEABLE BASE

**Unit**: CY; M3  
**Accuracy**: Cubic Yard; Cubic Meter  
**PlanQuantity?**: yes

**Notes**

**Details**

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>
| Design   | SHTabQuant  
           | COMP 700-050-04  
           | 700-050-54 |
| Construction | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
**Construction**

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

**References**

PPM Chapter
Other
Standards Index No. 287
Specifications

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

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

**Status** Inactive Structure

**Struct.** 287-1- ASPHALT TREATED PERMEABLE BASE CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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<tr>
<td>0287-1</td>
<td>ASPHALT TREATED PERMEABLE BASE CY</td>
<td>CY</td>
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<td>1/1/2007</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status** Inactive Structure

**Struct.** 288-001- CEMENT TREATED PERMEABLE BASE CY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0288001</td>
<td>CEMENT TREATED PERMEABLE BASE CY</td>
<td>CY</td>
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<td>1/1/2007</td>
<td></td>
<td>$439.83</td>
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</table>
Chapter 13

*Items 300 to 399*
This page intentionally left blank
### 327-70- AA  MILLING EXISTING ASPHALT PAVEMENT

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M²</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

#### Notes

**Details**
Consists of removing existing AC pavement to improve the rideability of the finished pavement, to lower the finished grade adjacent to existing curb prior to resurfacing, or to completely remove existing pavement. Includes transporting the milled material to the asphalt plant site, and stockpiling the material. Also includes removal of existing Reflective Pavement Markers. Show basis of calculation, include exceptions.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
<th>300-1-1 (2300-1-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

#### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Design</th>
<th>Construction</th>
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<tr>
<td>Other</td>
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</table>

#### Standards

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
</table>

#### Specifications

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

---

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Roadway</th>
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<tbody>
<tr>
<td>0200</td>
<td></td>
</tr>
</tbody>
</table>

#### Status

**Struct.**

<table>
<thead>
<tr>
<th>MILLING EXISTING ASPHALT PAVEMENT</th>
<th>SY</th>
</tr>
</thead>
</table>

#### AA =

1 (1" Avg. Depth)  
2 (3 1/2" Avg. Depth)  
3 (4 1/2" Avg. Depth)  
4 (3" Avg. Depth)  
5 (2" Avg. Depth)  
6 (1 1/2" Avg. Depth)  
7 (4" Avg. Depth)  
8 (2 1/2" Avg. Depth)  
9 (5 1/4" Avg. Depth)  
10 (5" Avg. Depth)  
11 (2 1/4" Avg. Depth)  
12 (1 1/4" Avg. Depth)  
13 (1 3/4" Avg. Depth)  
14 (6 1/2" Avg. Depth)  
15 (2 3/4" Avg. Depth)  
16 (1/2" Avg. Depth)  
17 (3 1/4" Avg. Depth)  
18 (5 1/2" Avg. Depth)  
19 (3/4" Avg. Depth)  
20 (3 3/4" Avg. Depth)  
21 (7" Avg. Depth)  
22 (4 1/4" Avg. Depth)  
23 (6" Avg. Depth)  
24 (9" Avg. Depth)
### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0327 70 1</td>
<td>MILLING EXIST ASPH PAVT, 1&quot; AVG DEPTH</td>
<td>SY</td>
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<td>1/1/2007</td>
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<td>$2.09</td>
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<tr>
<td>0327 70 2</td>
<td>MILLING EXIST ASPH PAVT, 3 1/2&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$3.49</td>
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<tr>
<td>0327 70 3</td>
<td>MILLING EXIST ASPH PAVT, 4 1/2&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
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<tr>
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<td>SY</td>
<td>1/1/2007</td>
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<td>$2.52</td>
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<tr>
<td>0327 70 5</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.46</td>
</tr>
<tr>
<td>0327 70 6</td>
<td>MILLING EXIST ASPH PAVT, 1 1/2&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.34</td>
</tr>
<tr>
<td>0327 70 7</td>
<td>MILLING EXIST ASPH PAVT, 4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.25</td>
</tr>
<tr>
<td>0327 70 8</td>
<td>MILLING EXIST ASPH PAVT, 2 1/2&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.27</td>
</tr>
<tr>
<td>0327 70 9</td>
<td>MILLING EXIST ASPH PAVT, 5 1/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
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<tr>
<td>0327 70 10</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$26.00</td>
</tr>
<tr>
<td>0327 70 11</td>
<td>MILLING EXIST ASPH PAVT, 2 1/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.46</td>
</tr>
<tr>
<td>0327 70 12</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.27</td>
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<tr>
<td>0327 70 13</td>
<td>MILLING EXIST ASPH PAVT, 1 3/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
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<td>$2.28</td>
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<tr>
<td>0327 70 14</td>
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<td>SY</td>
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<td>1/1/2007</td>
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<tr>
<td>0327 70 15</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
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<tr>
<td>0327 70 16</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.27</td>
</tr>
<tr>
<td>0327 70 17</td>
<td>MILLING EXIST ASPH PAVT, 3 1/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$3.13</td>
</tr>
<tr>
<td>0327 70 18</td>
<td>MILLING EXIST ASPH PAVT, 5 1/2&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$26.50</td>
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<tr>
<td>0327 70 19</td>
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<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$1.95</td>
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<tr>
<td>0327 70 20</td>
<td>MILLING EXIST ASPH PAVT, 3 3/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$2.14</td>
</tr>
<tr>
<td>0327 70 21</td>
<td>MILLING EXIST ASPH PAVT, 7&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$7.50</td>
</tr>
<tr>
<td>0327 70 22</td>
<td>MILLING EXIST ASPH PAVT, 4 1/4&quot; AVG DEPTH</td>
<td>SY</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$3.27</td>
</tr>
</tbody>
</table>
MILLING EXIST ASPH PAVT, 6” AVG DEPTH  
SY  
1/1/2007  
$6.86

MILLING EXISTING ASPHALT PAVEMENT, 4 3/4” AVERAGE DEPTH  
SY  
1/1/2007  
$6.75

### 334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

<table>
<thead>
<tr>
<th>Unit</th>
<th>TN; MT</th>
<th>Accuracy</th>
<th>10th of a Ton; 10th of a Metric Ton</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td></td>
<td></td>
<td>Consists of using SUPERPAVE asphalt mixture design and analysis test equipment and procedures, Gyratory Compactor to better simulate actual pavement loadings (five different traffic levels available) to provide for a better rut-resistant mix design. Use 110 lb per square yard per 1 inch (24 kg/m² per 10 mm) lift. Note: Other rates and PG 76-22 Binder may be used only when recommended by District Materials Engineer.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-06</td>
</tr>
<tr>
<td>Construction</td>
<td>700-050-56</td>
<td></td>
</tr>
<tr>
<td>Documentation Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Standards</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications</td>
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<td></td>
</tr>
</tbody>
</table>

| Prep & Doc Manual Chapter(s) | 13 |

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

### Status

334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

AA = Traffic

11 (A)  
12 (B)  
13 (C)  
14 (D)  
15 (E)  
21 (Traffic A, PG 76-22)  
22 (Traffic B, PG 76-22)  
23 (Traffic C, PG 76-22)  
24 (Traffic D, PG 76-22)  
25 (Traffic E, PG 76-22)

### Notes

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0334 1 11</td>
<td>SUPERPAVE ASPHALTIC CONC, TRAFFIC A</td>
<td>TN</td>
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<td>1/1/2007</td>
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<tr>
<td>0334 1 12</td>
<td>SUPERPAVE ASPHALTIC CONC, TRAFFIC B</td>
<td>TN</td>
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<td>1/1/2007</td>
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<td>0334 1 13</td>
<td>SUPERPAVE ASPHALTIC CONC, TRAFFIC C</td>
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<td></td>
<td>1/1/2007</td>
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<td></td>
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<td>0334 1 15</td>
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<td>TN</td>
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<td>1/1/2007</td>
<td></td>
<td>$89.65</td>
</tr>
</tbody>
</table>

### 337- 7- AA  ASPHALTIC CONCRETE FRICTION COURSE

**Unit**  
TN; MT

**Accuracy**  
10th of a Ton; 10th of a Metric Ton

**Plan Quantity?**  
no

**Notes**

The maximum spread rate used for estimating quantities are as follows:

- a=5~ FC-5(Rubber): 80 lb/yd² (44 kg/m²); recommended thickness 3/4 in (20mm)
- a=7~ FC-9.5 (Rubber): 110 lb/yd² (72 kg/m²); recommended thickness 1 in (30mm)
- a=6~ FC-12.5 (Rubber): 165 lb/yd² (96 kg/m²); recommended thickness 11/2 in (40mm)
- a=21~ FC-9.5 (PG 76-22): 110 lb/yd² (72 kg/m²); recommended thickness 1 in (30mm)
- a=20~ FC-12.5 (PG 76-22): 165 lb/yd² (96 kg/m²); recommended thickness 11/2 in (40mm)
- a=22~ FC-5 (PG 76-22): 80 lb/yd² (44 kg/m²); recommended thickness 3/4 in (20mm)

The actual spread rate will be based on the contractor's mix design per specifications. Designers must specify on the Typical Section, the traffic Level for structural Friction Courses FC-9.5 and FC-12.5. Refer to Pavement Design Manual for additional information.

**Related Items**

**Forms**

- Required  
  Design: SHTabQuant
  Construction: 700-050-56

- Recommended  
  Design: COMP 700-050-06

**Documentation**

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

- **Construction**: Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

**References**

- PPM Chapter
- Other

Details and Structure: Items 300 to 399
Standards
Specifications

Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

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

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

30 (Traffic B, FC-9.5, Rubber)
31 (Traffic B, FC-12.5, Rubber)
32 (Traffic C, FC-9.5, Rubber)
33 (Traffic C, FC-12.5, Rubber)
35 (Traffic D, FC-12.5, Rubber)

40 (Traffic B, FC-9.5, PG 76-22)
41 (Traffic B, FC-12.5, PG 76-22)
42 (Traffic C, FC-9.5, PG 76-22)
43 (Traffic C, FC-12.5, PG 76-22)
45 (Traffic D, FC-12.5, PG 76-22)

Notes
Valid through 6-30-2007:
AA= Type
6 (FC-12.5, Rubber)
7 (FC-9.5, Rubber)
20 (FC-12.5, PG 76-22)
21 (FC-9.5, PG 76-22)

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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0337 7 43  ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22  TN  7/1/2007  $116.00
0337 7 45  ASPHALT CONCRETE FRICTION COURSE, TRAFFIC D, FC-12.5, PG 76-22  TN  7/1/2007  $117.73

### 339- 1- MISCELLANEOUS ASPHALT PAVEMENT

**Unit**: TN; MT  
**Accuracy**: 10th of a Ton; 10th of a Metric Ton

**Notes**
Consists of construction of asphalt pavement in areas which will not be subjected to vehicular traffic, such as pavement under guardrail, bicycle paths, median pavement, sidewalks, etc. The pay quantity will be based on the average spread rate or dimensions for the project, limited to a maximum of 105% of the plan quantity. For calculation, use a weight of 100 lb/sy-in (22kg/m2 per 10mm) thickness.

**Related Items**

**Required**
- Design: SBAshphaltMisc
- Construction: 700-050-56

**Recommended**
- Design: COMP 700-050-06

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

**References**
- PPM Chapter
- Other: Index No. 400 for guardrail applications
- Standards
- Specifications
- Prep & Doc Manual Chapter(s): Contact Final Estimates

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

## Status

**Struct.** 339- 1- MISCELLANEOUS ASPHALT PAVEMENT TN

**Notes**

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

### 340- OPEN GRADED CRACK RELIEF LAYER

**Unit**: TN; MT  
**Accuracy**: 10th of a Ton; 10th of a Metric Ton

**Notes**
HOLD for Future Development; refer to 906-340- item for use with developmental specification
Contact the State Materials Office for assistance with this office.

### Forms

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<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
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<td>SHTabQuant</td>
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### Documentation

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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### References

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<tr>
<td>Standards</td>
<td>Specifications</td>
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### Notes

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

### 341- 70-

**ASPHALT RUBBER MEMBRANE INTERLAYER**

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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
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### Notes

Consists of a separate application of asphalt rubber binder covered with a single application of aggregate. Jobs let through 6/04: When this item is used, item 2300- 1- 19 must be used.

Jobs let 7/04 and later: Payment for bituminous material (rubber binder) is incidental to this item.

### Related Items

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<thead>
<tr>
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<th>Recommended</th>
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</thead>
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### Documentation

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</tr>
<tr>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### References

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<th>Other</th>
</tr>
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<tr>
<td>Standards</td>
<td>Specifications</td>
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### Prep & Doc Manual Chapter(s)

6, 7, 13

### Summary

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

**Status**

**Struct.** 341- 70- ASPHALT RUBBER MEMBRANE INTERLAYER SY
Notes

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

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### 350- 1- AA  CEMENT CONCRETE PAVEMENT PLAIN

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

**Details**: Consists of placement of plain Portland Cement Concrete pavement and also of construction of pavement joints. For colored concrete, see 523 items.

**Related Items**

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<th>Required</th>
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<td>COMP 700-050-01</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
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<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<td>Specifications</td>
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**Prep & Doc Manual Chapter(s)**  
6, 7, 13

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

**Status**

**Struct.**  
350- 1- AA  CEMENT CONCRETE PAVEMENT PLAIN  
SY

AA = thickness
1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
6 (3")
7 (2")
8 (7 1/2")
9 (Var. 7 1/2" Avg.)
10 (12")
11 (13")
12 (11")
13 (11 1/2")
14 (14")
15 (13 1/2")
16 (10 1/2")
17 (8 1/2")
18 (15")
19 (12 1/2")
20 (Var. 9 1/2" Avg.)
21 (Var. 11" Avg.)
22 (Var. 11 1/2" Avg.)
23 (14 1/2")
24 (var 10 1/2" average)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 350- 2- AA CEMENT CONCRETE PAVEMENT, REINFORCED

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<th>Accuracy</th>
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<th>PlanQuantity?</th>
<th>yes</th>
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</table>

#### Notes

**Details**

Consists of placement of steel reinforced Portland Cement Concrete pavement and also of construction of pavement joints, as described in Section 350.

For fiber reinforced concrete, contact the State Pavement Design Office. For colored concrete, see 523 items.

#### Related Items

<table>
<thead>
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<th>Required</th>
<th>Recommended</th>
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<td>SHTabQuant</td>
</tr>
<tr>
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<td><strong>Design</strong></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
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<tr>
<td><strong>Construction</strong></td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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#### References

<table>
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<tr>
<th><strong>PPM Chapter</strong></th>
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<tr>
<td>6, 7, 13</td>
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**Prep & Doc Manual Chapter(s)**: 6, 7, 13

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

**Struct.**

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</tr>
<tr>
<td>3 (8&quot;)</td>
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<td>6 (3&quot;)</td>
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<td>7 (2&quot;)</td>
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#### Notes

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

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### Notes

**Details**

Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only. DO NOT Use on bridge structures; refer to item 400-12.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
  - Standards: Index No. 305
  - Specifications

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

---

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

**Status**

**Struct.** 350-72-

**Notes**

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

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**Details and Structure: Items 300 to 399**
Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only. DO NOT Use on bridge structures; refer to Section 400 items.

**Related Items**

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**Notes**

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

**Construction**

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

**References**

PPM Chapter

**Related Items**

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<th>Forms</th>
<th>Documentation</th>
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<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**Notes**

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

<table>
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<th>Item</th>
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<td>CLEANING &amp; SEALING RANDOM CRACKS IN CONCRETE PAV'T</td>
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**352-70-**

**GRINDING CONCRETE PAVEMENT**

<table>
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<tr>
<th>Unit</th>
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<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
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This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.

DO NOT Use on bridge structures; refer to Section 400 items.

**Related Items**

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<tr>
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**Notes**

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

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 352-70- GRINDING CONCRETE PAVEMENT SY

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

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353-70- CONCRETE PAVEMENT SLAB REPLACEMENT

Unit CY; M3 Accuracy 10th of a Cubic Yard; 10th PlanQuantity? no/yes* of a Cubic Meter

Notes
Effective July 2008 letting, measurement will be plan quantity, per specification.

Details
For use on existing Concrete Pavement roadways only.

NOTE: Method of measurement change, per specifications. For projects let through 6/2008, method of measurement will be quantity, as placed. For projects let 7/2008 and later, method of measurement will be by plan quantity.

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-04
Construction Refer to Comp Book

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

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

References
PPM Chapter Other
Standards Index No. 305, 308
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 353-70- CONCRETE PAVEMENT SLAB REPLACEMENT CY

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

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370-1- BRIDGE APPROACH EXPANSION JOINT

Details and Structure: Items 300 to 399
Unit: LF; M1  Accuracy: Linear Foot; 10th of a Meter  PlanQuantity?: yes

Details:
Consists of the construction of special expansion joints for concrete pavement near the bridge approach slabs. These joints contain a section of reinforced concrete subslab supporting the concrete pavement, and a portion of the pavement over the subslab interrupted by a galvanized sheet metal strip.

Related Items:
Required: Design - SHTabQuant; Construction - Refer to Comp Book
Recommended: Index No. 306

Specifications:
Struct. 370-1- BRIDGE APPROACH EXPANSION JOINT LF  

Notes:
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

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

Status:
Struct. 370-1- BRIDGE APPROACH EXPANSION JOINT LF

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

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Chapter 14

Items 400 to 499

State Specifications and Estimates Office
Estimating Systems Support Section
This page intentionally left blank
### Class NS, I, II, III, IV, V, VI Details

<table>
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<tr>
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<td>CY; M3</td>
<td>10th of a Cubic Yard; 10th of a Cubic Meter</td>
<td>yes/no</td>
</tr>
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</table>

#### Notes

**NOTES BELOW ARE FOR CLASS NS, I, II, III, IV, and V, VI Concrete:**

**Class NS effective July 2009, pending specification and standards changes**

No separate payment made for deck scuppers, poured expansion joints, deck control joints, preformed anchor bolt holes, plain neoprene bearing pads. These items are included in the cost of the concrete.

Reinforcement steel may be incidental to the cost of the concrete; refer to Section 400 of the specifications. Reinforcement is incidental for concrete jackets on steel piles, steel in barriers, traffic separators, and parapets. For Gravity Walls, reinforcement steel is incidental to cost of concrete.

Include quantity block in plans by component (except for misc. concrete). Mass concrete should be broken out in the quantity block separately. See SDG’s 3.9. When component is phased, break down quantity by phase.

Concrete quantity is PLAN QUANTITY (except for misc. concrete). See Section 400-22.2.2 of the Specifications.

**ENDWALLS:** Refer to Design Standards for correct class of concrete and other payment details. For some U-endwalls, payment is made under 430 items. For Index 250, reinforcing steel is included in cost of concrete.

Misc Concrete: Estimate 5 CY (5 M3) minimum. PENDING: To be replaced by Class NS concrete or other non-concrete items, to which concrete is incidental. Valid through July 2009?

Precast Deck Overlay: consists of Class IV with steel fiber reinforcement and low shrinkage admixtures. Coordinate Use of this item with the State Structures Design Office. Requires modified specifications.

Class III: When it is not practical to dewater land pier footings, show seal concrete in the plans. For water piers, both waterline and mud line footings require seal concrete to be shown in the plans. See SDG’s 3.7.

Superstructure Light-Weight Concrete requires plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Low Shrink Deck Concrete requires a TSP.

Self-Consolidating Concrete requires a Tech Spec. Coordinate this specification with the State Structures Design Office.

Counterweight Concrete may require plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Concrete for bascule bridge pier should be paid for under Substructure or Mass-Substructure pay items. See SDG’s 3.9.

Clearly delineate limits of microsilica concrete in the plans. Clearly delineate limits of calcium nitrite in the plans. CIP concrete requiring calcium nitrite should be paid for using the normal concrete pay item. See SDG’s 1.4.2.

Class VI: Coordinate the use of these items with the State Structures Design Office.
ORIGINAL MEASUREMENT:
ALL, Except MISC: Detailed calculations are required in the computation book, calculate carefully to reflect actual scope of work. PLAN QUANTITY will be basis of payment to the Contractor.
MISC: Detailed calculations are required in computation book.

FINAL:
ALL, Except MISC: No calculations required unless item is to be adjusted. Final pay quantity will be PLAN QUANTITY with proper considerations for Specification tolerances.
MISC: Final measurements should be recorded in field book showing detailed calculations. (Refer to subarticle 400-20.2.2 in the specifications.) Transfer final quantity to proper form in computation book.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
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<tr>
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<td>Construction</td>
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<td>Documentation</td>
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<td>References</td>
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<td>Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.</td>
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TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

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

AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV
2 (Endwalls) Class I, II, IV
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV
6 (Counterweight) Class IV
8 (Bulkhead) Class IV
10 (Approach Slabs) Class II
11 (Retaining Walls) Class NS: Gravity Wall, Index 520; Class II: Gravity Wall w/ junction slab, Index 520
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS: Index 521 **New item effective 7/09 letting**
15 (Miscellaneous) **Valid through ???**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class ??
25 (Mass- Substructure) Class ??
39 (Precast Segmental Superstructure) Class IV, V, VI
40 (Precast Segmental Substructure) Class IV, V
41 (Precast Deck Overlay) Class IV with steel fiber reinforcement & low shrink admixtures
42 (Substructure Self-Consolidating Concrete) Class VI, Tech Spec required
43 (Superstructure Self-Consolidating Concrete) Class VI, Tech Spec required
104 (Superstructure Light-Weight) Class ??
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

Notes

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

---

### 400-0-AAA CLASS NS CONCRETE

<table>
<thead>
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<td>Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.</td>
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<td>Specifications</td>
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<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>6, 7, 13</td>
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TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

---

### 400-1-AAA CLASS I CONCRETE

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<td>Notes</td>
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Details and Structure: Items 400 to 499
## Basis of Estimates

### Topic No. 600-000-002

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

---

### Related Items

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### Forms

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### Documentation

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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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### Notes

- **Status:**
  - **Struct.** 400-1-AAA  
  - **CLASS I CONCRETE**
  
  AAA = Class I Applications
  
  1 (Culverts)
  2 (Endwalls) Index 250, 264, 266, 282
  11 (Retaining Walls) Gravity Wall, Index 520 **Valid through 6-30-2009; replaced by Class NS Gravity Wall**
  15 (Miscellaneous) **Valid through ??**

---

### References

- **PPM Chapter**
  - Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

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

---

### TRNS*PORT Category (DRAFT FIELD):

- 100 or 200 Structures or Roadway

---

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### Related Items

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### Details

- **Notes:**
  - Refer to 400-ALL for details on all classes of concrete
  - **Unit:** CY; M3  
  - **Accuracy:** 10th of a Cubic Yard; 10th of a Cubic Meter  
  - **PlanQuantity?** yes/no

---

**Details and Structure:** Items 400 to 499

---

**Page 4 of 146**
Basis of Estimates
2009 Edition
October 6, 2008

Standards
Refer to 400-ALL for details on all classes of concrete Specifications 346, 400

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

Struct. 400-2-AAA CLASS II CONCRETE CY

AAA = Class II Applications
1 (Culverts)
2 (Endwalls) Index 251, 252, 253, 255; NOT Index 260 or 261
4 (Superstructure)
5 (Substructure)
10 (Approach Slabs)
11 (Retaining Walls) Gravity Wall w/junction slab, Index 520
12 (Trench Slabs)
15 (Miscellaneous) **Valid through ???**

Notes

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<th>Unit</th>
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400-3-AAA CLASS III CONCRETE

Unit CY; M3
Accuracy 10th of a Cubic Yard; 10th of a Cubic Meter
PlanQuantity? yes/no

Notes

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

Related Items
Required Recommended 415-1-A

Forms
Design SHTabQuant

Details and Structure: Items 400 to 499
**Construction**
Refer to Comp Book

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

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

### References

**PPM Chapter**

**Other**
Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

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

**Prep & Doc Manual Chapter(s)**

---

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

100 or 200 Structures or Roadway

**Status**

**Struct.**

400- 3-AAA CLASS III CONCRETE CY

AAA = Class III Applications
15 (Miscellaneous)**Valid through ??**
20 (Seal) Class III

### Notes

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

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<th>Item</th>
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**400- 4-AAA CLASS IV CONCRETE**

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<tbody>
<tr>
<td>CY; M3</td>
<td>10th of a Cubic Yard; 10th of a Cubic Meter</td>
<td>yes/no</td>
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### Notes

Refer to 400- -ALL for details on all classes of concrete
Class IV normally used for aggressive environments.

### Related Items

**Required**

**Recommended**

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-04/07</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
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</table>

**Documentation**

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

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

### References

**PPM Chapter**

**Other**
Mass Concrete SDG’s 3.9, Class and Admixtures SDG’s 1.4.2, Cofferdams and Seals SDG’s 3.7.

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

---

Details and Structure: Items 400 to 499
**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct.  400-  4-AAA CLASS IV CONCRETE CY**

AAA = Class IV Applications
1 (Culverts)
2 (Endwalls)
4 (Superstructure)
5 (Substructure)
6 (Counterweight)
8 (Bulkhead)
15 (Miscellaneous) **Valid through ???**
41 (Precast Deck Overlay) w/admixtures

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**400-  6- PRECAST ANCHOR BEAMS**

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**Notes**

**Details**

Intended for Precast Tie Back anchors for use in anchored wall systems. Include in anchored wall quantity block in plans

**Related Items**

<table>
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<tr>
<th>Required</th>
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<tbody>
<tr>
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**Details and Structure:** Items 400 to 499
### 400-002 Topic

**Basis of Estimates**

#### 2009 Edition

**October 6, 2008**

**Standards**

**Specifications**

#### Structures 400-6- PRECAST ANCHOR BEAMS EA

**Notes**

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

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

#### Documentation

- **Construction** Refer to Comp Book
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

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

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

**Status**

**Struct.** 400-6- PRECAST ANCHOR BEAMS EA

**Notes**

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

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

**Status**

**Struct.** 400-7- BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5"

**Notes**

Item intended for cases where deck profilograph and planing is not required by specification. When rigid approach slab is utilized, include approach slab area only. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

#### Related Items

**Required** SHTabQuant

**Recommended** COMP 700-050-01

**Forms**

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

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

#### References

- **PPM Chapter**
- **Other** SDG’s 4.2
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 7, 13

**Details and Structure:** Items 400 to 499

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Page 8 of 146
### Notes

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

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### 400- 8-AAA CLASS V CONCRETE

- **Unit**: CY; M3
- **Accuracy**: 10th of a Cubic Yard; 10th of a Cubic Meter
- **Plan Quantity?**: yes/no

**Notes**
- **Details**: Refer to 400-ALL for details on all classes of concrete
- **Related Items**
  - **Required**: SHTabQuant
  - **Recommended**: COMP 700-050-04/07

**Forms**
- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**: Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.
- **Other**: Refer to 400-ALL for details on all classes of concrete

**Prep & Doc Manual Chapter(s)**

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

- **100 or 200 Structures or Roadway**

### Status

**Struct. 400- 8-AAA CLASS V CONCRETE CY**

AAA = Class V Applications
- 39 (Precast Segmental Superstructure)
- 40 (Precast Segmental Substructure)
- 106 (Microsilica Substructure)
- 107 (Microsilica Substructure-Mass)
- 239 (Low Shrink Deck) Material Only

### Notes

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

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**Details and Structure**: Items 400 to 499
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0400 8107 CONC CLASS V, MICRO SILICA SUBSTRUCTURE CY 1/1/2007 $0.00

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<td>October 6, 2008</td>
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**400- 9-** BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5” or GREATER

<table>
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<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
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**Notes**

**Details**

Item intended for cases where deck profilograph, and planing is required by specification. When rigid approach slab is utilized, include approach slab area. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

**Related Items**

**Required**

- Design: SHTabQuant

**Recommended**

- Construction: Refer to Comp Book

**Forms**

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

**Documentation**

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

**References**

- PPM Chapter: SDG’s 4.2

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

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

---

**Status**

**Struct.** 400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5” or GREATER

---

**Notes**

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

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**400- 16-AAA** Class VI Concrete

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<tbody>
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<td>CY; M3</td>
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</tr>
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**Notes**

**Details**

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

**Related Items**

**Required**

- Construction: Recommended 415- 1- A

**Forms**

- Design:
Construction Specifications

Struct.  400-16-AAA Class VI Concrete CY

AAA = Application
22 (Superstructure Closure Joint)
25 (Mass- Substructure)
39 (Precast Segmental Superstructure)
42 (Substructure Self-Consolidating Concrete)
43 (Superstructure Self-Consolidating Concrete)

Notes

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

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<tr>
<th>Item</th>
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400-20- GRINDING BRIDGE DECK- REHABILITATION ONLY

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

Notes

Estimates Support: Contact the State Structures Design Office before opening item

Details

For use on bridge rehabilitation projects only.

Related Items

Required Design SHTabQuant
Recommended Construction COMP 700-050-01

Documentation Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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

**Status**

**Notes**
Estimates Support: Contact the State Structures Design Office before opening item

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

---

### 400-32- CONCRETE FOR JOINT REPAIR

**Unit** CY; M3  **Accuracy** 10th of a Cubic Yard; 10th **PlanQuantity?** yes of a Cubic Meter

**Notes**
Intended for rehabilitation or widening projects to repair or replace concrete deck at expansion joints. Include in Quantity Block in Plans.

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

**Related Items**

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<tr>
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**Forms**
Refer to Comp Book

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

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

**References**
PPM Chapter
Other
SDG’s 6.4
Standards
Specifications

Plan Detail and/or Tech Spec Required

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

---

**Status**

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

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**400-60- A CATHODIC PROTECTION- ELECTRICAL WORK**

**Notes**

Intended for Electrical Work associated with Cathodic Protection. 3 pay items (power, conduit, and equipment, as described below) are needed for a complete electrical system. Use with either 400-142 Cathodic Protection (CP) of mass concrete product(s), 455-81 CP for piles, or 457 items- CP for integral pile jackets. Contact the Materials Lab for assistance with using this item.

**AC or DC POWER SOURCE ASSEMBLY:** Includes all work and materials for providing power to the Cathodic Protection System. For AC assemblies, this includes all costs associated with connection between system and external power source. For DC assemblies, includes solar panels, batteries, incidentals, and wiring necessary to provide power.

**CONDUIT:** Includes all conduit from power source assembly to end location(s), junction boxes, wiring, and all incidentals. Measure as the length of conduit from the power system, along the bridge, and down each pier to be protected.

**EQUIPMENT & INSTRUMENTATION:** Lump sum item to include all remaining items necessary for a complete system. Detail major equipment, by location, in the plans or Tech Specs.

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

**Related Items**

- **Required**: 400-142, 455-81, or 457 items.
- **Recommended**: Items.

**Forms**

- **Design**: SHTabQuantLS
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

**Status**

Struct. 400-60- A CATHODIC PROTECTION- ELECTRICAL WORK LS/LS

A= Components (Select only 1 power source assembly; use with BOTH A= 3 and 4)
Notes

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

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<td>0400 60 3</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, CONDUIT, WIRING, AND ACCESSORIES</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$28.87</td>
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<tr>
<td>0400 60 4</td>
<td>CATHODIC PROTECTION - ELECTRICAL WORK, EQUIPMENT &amp; INSTRUMENTATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$272,416.45</td>
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</tbody>
</table>

400-72- PRECAST BULKHEAD PANELS

<table>
<thead>
<tr>
<th>Unit</th>
<th>SF; M2</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Square Foot; 10th of a Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes

Details

Intended for precast panels used as part of a soldier pile wall system. Pay Item note recommended; coordinate with specifications. Add pay item note similar to concrete sheet piles (Spec. 455-9.4 and 455-12.7) to include cost of trenching, preformed holes in cost of precast panels. Include in Soldier Wall Quantity Block in Plans. May require specification modifications as follows: 455-5.15.2 and 455-5.15.3 Placement Tolerances (+/-1") and Batter Tolerances (1/8 in/ft).

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

Related Items

Required: 455-34- AA
Recommended: 455-34- AA

Forms

Design: SHTabQuant
Construction: Refer to Comp Book

Documentation

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

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

References

PPM Chapter: SDG’s 3.12.9 and Figure 3-13.

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 72</td>
<td>PRECAST BULKHEAD PANELS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$35.08</td>
</tr>
</tbody>
</table>

### 400-91- DEWATERING FOR SPREAD FOOTINGS

**Unit** | EA  
**Accuracy** | Each 
**PlanQuantity?** | yes

**Notes**

Required on all spread footing projects where dewatering is anticipated due to high water table. Include in Footing Quantity Block in Plans. Usually used with Pay Items 400-4-25, 400-2-25, 415-1-4. Include Pay Item 125-1 only when additional excavation is required below bottom of footing elevation.

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

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SBDRST</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction Design</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>Specifications</td>
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</table>

**Prep & Doc Manual Chapter(s)** | 7, 13

---

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

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<tr>
<th>Item</th>
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<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400 91</td>
<td>DEWATERING FOR SPREAD FOOTINGS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5,250.00</td>
</tr>
</tbody>
</table>

### 400-95- A COFFERDAM

**Unit** | EA  
**Accuracy** | Each 
**PlanQuantity?** | yes

---

Details and Structure: Items 400 to 499
Notes
Details
Intended to construct/dewater cofferdams. Cofferdams may be required to construct or demolish mud line footings located in the waterway. This pay item is not to be utilized when full containment structures are required due to special environmental turbidity requirements, or when a pier footing is located at the shoreline making dewatering difficult. Do not use for waterline or slightly submerged footings.

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

Related Items
Forms
Required 400- 3- 20
Recommended
Design SHTabQuant
Comp 700-050-03
Construction Refer to Comp Book

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

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

References
PPM Chapter
Other SDG’s 3.7.

Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 400- 95- A COFFERDAM EA

A =
1 (Bascule Pier)
2 (Control House)
3 (Special)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 95 1</td>
<td>COFFERDAM, BASCULE PIER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,700,000.00</td>
</tr>
<tr>
<td>0400 95 3</td>
<td>COFFERDAM, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

400- 97- COATING CONCRETE SURFACES- REHAB

Unit LS/SF; LS/M2 Accuracy Lump Sum (Square Foot); PlanQuantity? yes Lump Sum (Square Meter)

Notes

Details Intended on rehabilitation projects to apply coating systems onto existing concrete surfaces such as epoxy or bituminous protection coatings. Cost usually covers the labor. Material costs covered under separate pay item. Show location. Pay item note recommended. Do not use with Item 400-143.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Required** | **Recommended**
--- | ---
**Forms**
Design | SHTabQuantLS | COMP 700-050-05
Construction | Refer to Comp Book
**Documentation**
Design | Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 6, 13

---

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

---

### Status

**Struct.**

0400-97- COATING CONCRETE SURFACES- REHAB LS/SF

---

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400 97</td>
<td>COATING CONCRETE SURFACES-REHAB</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.82</td>
</tr>
</tbody>
</table>

---

### 400-113-

**PRECAST BENT CAPS (END)**

**Unit** | **Accuracy** | **PlanQuantity?** | yes
--- | --- | ---
LF; M1 | Linear Foot; 10th of a Meter |

---

### Notes

- Intended for prefabricated end bent caps (furnish and install). Include in End Bent Quantity Block in Plans. Address cost of connection to piles and flowable fill (or similar) required to fill under finished cap. Tech Spec or Plan note may be necessary to address connection to piles.
- Tech Spec or Plan note may be necessary to address connection to piles.

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

---

### Related Items

**Required** | **Recommended**
--- | ---
**Forms**
Design | SHTabQuant | COMP 700-050-03
Construction | Refer to Comp Book
**Documentation**
Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter
Other
Standards
Specifications

**PlanDetail and/or Tech Spec Required**
Prep & Doc Manual Chapter(s)

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

**Status**

**Struct.** 400-113- PRECAST BENT CAPS (END) LF

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

---

**400-114- PRECAST BENT CAPS (INT)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Quantity</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>LF; M1</td>
<td>yes</td>
<td>Linear Foot; 10th of a Meter</td>
<td></td>
</tr>
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</table>

**Notes**
Intended for prefabricated bent caps (furnish and install). Include in Bent Cap Quantity Block in Plans. TSP or plan notes may be necessary to address connection to piles.

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms</td>
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</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Document</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**
PPM Chapter
Other
Standards
Specifications

**PlanDetail and/or Tech Spec Required**
Prep & Doc Manual Chapter(s) 6, 13

---

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

**Status**

**Struct.** 400-114- PRECAST BENT CAPS (INT) LF

**Notes**

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400128</td>
<td>GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

### 400-128-
**GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)**

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**
Intended for grouting the keyways of precast deck panels for both new and rehabilitation projects. On rehabilitation projects, include pay item notes to address payment of the various work items involved.

TSP may be required on rehabilitation projects to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**
PPM Chapter  
Other

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**: 6, 13

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

**Struct.** 400-128-
**GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)**

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400134</td>
<td>EPOXY MATERIAL- STRUCTURES REHAB</td>
<td>GA; LI</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Unit**: GA; LI  
**Accuracy**: Gallon; Liter  
**PlanQuantity?**: no

**Notes**
Valid through 12-31-08; replaced by 411-1

**Details**
Intended on rehabilitation projects for epoxy material to coat existing concrete surfaces. Cost of labor usually paid for under 400-97 or 400-135. Show location in plans. Pay item
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
</table>
| 0400134| EPOXY MATERIAL- STRUCTURES REHAB | GA   | T          | 1/1/2007   | 12/31/2008    | $127.38       

400-135- INJECT AND SEAL CRACKS- STRUCTURES REHAB

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes Valid through 12-31-08; replaced by 411-2

Details Intended for Rehabilitation Projects to Epoxy Inject and Seal Cracks in Existing Concrete Components. Item intended to Cover Labor. Item 400-134 Intended to cover material. Show locations w/ quantity block in plans.

Related Items Required 400-134 Recommended

Forms Design SHTabQuant Construction 700-050-05

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

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

References PPM Chapter Other Standards Specifications

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures
## Struct. 400-135- INJECT AND SEAL CRACKS- STRUCTURES REHAB LF

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400135</td>
<td>CRACKS INJECT &amp; SEAL- STRUCTURES REHAB</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$13.97</td>
</tr>
</tbody>
</table>

### 400-136- EPOXY CONCRETE OVERLAY- STRUCTURES REHAB

#### Unit
- SY; M2

#### Accuracy
- Square Yard; Square Meter

### Notes

**Details**

Used for rehabilitation of existing bridges. Item includes all costs for shotblasting deck, cleaning deck surface, testing cohesion, furnishing & installing epoxy overlay wearing surface. Contact State Structures Office for assistance.

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>COMP 700-050-01</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

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

### Struct. 400-136- EPOXY CONCRETE OVERLAY- STRUCTURES REHAB SY

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400136</td>
<td>EPOXY CONCRETE OVERLAY- STRUCTURES REHAB</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$35.48</td>
</tr>
</tbody>
</table>

### 400-140- A NEOPRENE PAD REPLACEMENT

Details and Structure: Items 400 to 499
Notes
Details
Intended for rehabilitation and widening projects to replace existing damaged pads. Show locations w/ quantity block in plans. Include pay item note to include cost of neoprene pads, jacking bridge, disposal of old pads, and all other labor and materials required to replace existing bearing incidental to cost of this item. For Composite pads, refer to pay item 400-417.

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

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter SDG’s 6.5
Other Index No. 20500, 20501
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 400-140- A NEOPRENE PAD REPLACEMENT EA

A =
1 (Bent / Pier)
2 (Abutment)
3 (Box Pier)
4 (Trestle Pier)
5 (V - Pier)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400140 1</td>
<td>NEOPRENE PAD REPLACEMENT, BENT/PIER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0400140 2</td>
<td>NEOPRENE PAD REPLACEMENT, ABUTMENT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,184.33</td>
</tr>
</tbody>
</table>

400-142- A CATHODIC PROTECTION SYSTEM

Unit SF; M2
Accuracy Square Foot; 10th of a Square Meter
PlanQuantity? no

Notes
Intended for rehabilitation projects when galvanic or impressed current cathodic systems are used for mass concrete or structural components. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Use Item 400-60 for Electrical Work associated with this item.

DO NOT USE this item for Pile or Pile Jacket Cathodic Protection. See 455-81 (pile) or 457-71 (pile jacket) for other Cathodic Protection items.

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

Related Items

| Required | 400-60- A |

Recommended

| Forms | Design | SHTabQuant |
| Construction | Refer to Comp Book |

| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

| PPM Chapter |
| Other Standards |
| Specifications |

Plan Detail and/or Tech Spec Required

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

Status

| Struct. | 400-142- A |
| CATHODIC PROTECTION SYSTEM |
| SF |

A =
3 (Zinc Aluminum Spray)
4 (Zinc Aluminum Sheets)
7 (Titanium Mesh) effective 7/1/06
8 (Titanium Bars) effective 7/1/06
9 (Other) effective 7/1/06

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400142 3</td>
<td>CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$21.88</td>
</tr>
<tr>
<td>0400142 4</td>
<td>CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SHEETS</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$322.50</td>
</tr>
<tr>
<td>0400142 7</td>
<td>CATHODIC PROTECTION SYSTEM, TITANIUM MESH</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$51.35</td>
</tr>
</tbody>
</table>

400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

| Unit | SF; M2 |
| Accuracy | Square Foot; 10th of a |
| PlanQuantity? | yes |

Details and Structure: Items 400 to 499
This item is used on bridge widening jobs for applying a class 5 finish coating to existing concrete surfaces or where existing bridges/walls within the limits of a project require a class 5 finish coating. Show locations in plans w/ quantity block.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

**Standards**

Struct. 400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400143</td>
<td>CLEANING &amp; COATING CONCRETE SURFACE, CLASS 5</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$1.52</td>
</tr>
</tbody>
</table>

**Notes**

400-145- A CLEANING CONCRETE SURFACE

**Notes**

Intended for cleaning existing class 5 finish coating of existing bridge. Show locations in plans w/ quantity block. Include pay item note in plans.

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

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
<td>COMP 700-050-05</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
</tr>
</tbody>
</table>
Construction

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

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

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

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

Status

Struct. 400-145- A CLEANING CONCRETE SURFACE LS/SF

A = location
Blank (Above Water)
1 (Underwater)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400145</td>
<td>CLEANING CONCRETE SURFACE</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.85</td>
</tr>
</tbody>
</table>

400-147- COMPOSITE NEOPRENE PADS

Unit CF; M3
Accuracy 10th of a Cubic Foot; 100th of a Cubic Meter

Notes

Details

Intended for composite (steel reinforced) neoprene bearing pads for bridges. Include cost of plain neoprene bearing pads in cost of concrete superstructure component. Add pay item note for this case. Show locations in plans w/ quantity block.

For replacement of neoprene pads, refer to pay item 400-140.

Related Items

Required Recommended

Forms
Design SHTabQuant COMP 700-050-04
Construction 700-050-56

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

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

References

PPM Chapter
Other SDG’s 6.5
Standards Index No. 20500, 20501
Specifications

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 400-147- COMPOSITE NEOPRENE PADS CF
### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0400147</td>
<td>COMPOSITE NEOPRENE PADS</td>
<td>CF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,051.02</td>
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</table>

#### 400-153-

**NON SHRINK GROUT- MISCELLANEOUS**

**Unit**: CF; M3  
**Accuracy**: 10th of a Cubic Foot; 100th of a Cubic Meter  
**Plan Quantity?**: no

**Details**

For rehabilitation/widening projects only. Use 10.0 CF (0.03 M3) as a minimum quantity. Show locations in plans w/ quantity block. Include pay item note in plans.

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

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<td>Design</td>
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<tr>
<td>COMP 700-050-04</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

- **PPM Chapter**:  
- **Other Standards**  
- **Specifications**

**Plan Detail and/or Tech Spec Required**

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

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

**Status**

**Struct.** 400-153-

**NON SHRINK GROUT- MISCELLANEOUS**

**Unit**: CF

---

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400153</td>
<td>NON SHRINK GROUT, F＆I, MISCELLANEOUS- STRUCTURES REHAB</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$166.97</td>
</tr>
</tbody>
</table>

#### 401-70-

**RESTORE SPALLED AREAS**

**Unit**: CF; M3  
**Accuracy**: 10th of a Cubic Foot; 100th of a Cubic Meter  
**Plan Quantity?**: no

**Details**

Used on rehabilitation projects to cover costs of patching existing concrete spalls. Show
locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of concrete patch. Use 10.0 CF (1.00 M3) as a minimum quantity.

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

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-04</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

<table>
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<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th></th>
</tr>
</thead>
</table>

**Plan Detail and/or Tech Spec Required**

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

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

**Status**

| Struct. 401-70- A | RESTORE SPALLED AREAS | CF |

**A =
1 (Epoxy)
2 (Latex Modified Mortar - Styrene-Butadiene)
3 (Latex Modified Mortar - Acrylic)
4 (Portland Cement Grout)
5 (Contractors Option)
6 (Thermosetting Polymer Concrete)
Blank (Gnite)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0401 70</td>
<td>RESTORE SPALLED AREAS, GUNITE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$239.98</td>
</tr>
<tr>
<td>0401 70 1</td>
<td>RESTORE SPALLED AREAS, EPOXY</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$667.10</td>
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<tr>
<td>0401 70 2</td>
<td>SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, STYRENE-BUTADIENE</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$507.50</td>
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<tr>
<td>0401 70 3</td>
<td>SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, ACRYLIC</td>
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<td>1/1/2007</td>
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<td>0401 70 4</td>
<td>RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT</td>
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<td>1/1/2007</td>
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<tr>
<td>0401 70 5</td>
<td>RESTORE SPALLED AREAS, CONTRACTORS OPTION</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$544.92</td>
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</table>
### 405-70- A LATEX MODIFIED PORTLAND CEMENT CONCRETE

**Unit**: CF; M3  
**Accuracy**: 10th of a Cubic Foot; 100th of a Cubic Meter  
**PlanQuantity?**: no

**Notes**
- Intended for thin deck overlays. Show locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of latex modified concrete overlay. Use 10.0 CF (1.00 M3) as a minimum quantity.
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**:  
- **Other**:  
- **Standards**:  
- **Specifications**:  

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

---

### Status

**Struct.** 405-70- A LATEX MODIFIED PORTLAND CEMENT CONCRETE CF

A =
1 (Type I Cement)  
2 (Type III Cement)

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0405 70 1</td>
<td>LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>0405 70 2</td>
<td>LATEX MODIFIED PORTLAND CEMENT CONC, TYPE III</td>
<td>CF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$483.33</td>
</tr>
</tbody>
</table>

---

### 407-1- AB PRECAST THREE SIDED CULVERT

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: yes

---

Details and Structure: Items 400 to 499
Per specifications, 3 sided box culverts are not an equivalent substitution for Precast Concrete Box Culverts. Refer to PPM for selection and design criteria.

**Related Items**

**Required**
- **Forms**
  - Design: SBDRST
  - Construction: Refer to Comp Book
- **Documentation**
  - Design: Construction

**Recommended**
- **PPM Chapter**
  - Vol 1, Chapter 33
- **Other**
- **Specifications**

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

**References**
- **PPM Chapter**
- **Other**
- **Specifications**

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

**Status**

**Struct.** 407- 1- AB  
**PRECAST THREE SIDED CULVERT**  
**LF**

A = Span (Total width of culvert when multiple barrels)
1 (up to 20 ft)
2 (20-29 ft)
3 (30-39 ft)
4 (40-49 ft)
5 (50 ft or greater)

B = Height
1 (up to 10 ft)
2 (10 ft or greater)

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

**411- 1-**  
**EPOXY MATERIAL**

**Unit** GA; LI  
**Accuracy** Gallon; Liter  
**PlanQuantity?** no

**Notes**
Effective 1/2009 letting; replaces 400-134. Refer to Estimates Bulletin 08-02.

**Details**
Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of labor paid under 411-2. Show location(s) in the plans.

**Related Items**

**Required**
- **Forms**
  - Design
  - Construction
- **Documentation**
  - Design
  - Construction

**Recommended**
- **PPM Chapter**
- **Other**
- **Specifications**

**Prep & Doc Manual Chapter(s)**

---

**Details and Structure:** Items 400 to 499  
Page 29 of 146
**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.** 411-1- **EPOXY MATERIAL**

#### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0411 1</td>
<td>EPOXY MATERIAL- STRUCTURES REHAB</td>
<td>GA</td>
<td>T</td>
<td>1/1/2009</td>
<td>$142.38</td>
<td></td>
</tr>
</tbody>
</table>

#### 411-2- **INJECT AND SEAL CRACK**

*Unit: Linear Foot; 10th of a Meter*

**Notes**


**Details**

Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of epoxy material paid under 411-1. Show location(s) in the plans.

**Related Items**

Required

Recommended

**Forms**

Design

Construction

**Documentation**

Design

Construction

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

### Status

**Struct.** 411-2- **INJECT AND SEAL CRACK**

#### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0411 2</td>
<td>CRACKS INJECT &amp; SEAL- STRUCTURES REHAB</td>
<td>LF</td>
<td>T</td>
<td>1/1/2009</td>
<td>$80.36</td>
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</tr>
</tbody>
</table>

#### 413-149- **PENETRANT SEALER**

*Unit: Gallon; Liter*

**Notes**

NO SEPARATE PAYMENT FOR NEW, PRECAST ITEMS.

Pay Item for Rehabilitation jobs only. Intended to cover material cost of penetrant sealer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

**Related Items**

Required 413-154

Recommended

**Forms**

Design

SHTabQuant

COMP 700-050-06
Standards
Specifications

Struct. 413-149- PENETRANT SEALER GA

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

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

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

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

Status
Struct. 413-149- PENETRANT SEALER GA

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0413149</td>
<td>PENETRANT SEALER</td>
<td>GA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$30.21</td>
</tr>
</tbody>
</table>

413-151- METHACRYLATE MONOMER

Notes
Unit GA; LI
Accuracy Gallon; Liter
PlanQuantity?

Details
For use on rehabilitation projects to seal existing deck cracks. Contact State Materials (Gainesville Corrosion) Lab for assistance with Specs. Intended to cover material cost of methacrylate monomer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items
Required 413-154
Recommended

Forms
Required
Design SHTabQuant
Construction 700-050-56

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

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

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

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

Status
Struct. 413-151- METHACRYLATE MONOMER GA

Notes

Details and Structure: Items 400 to 499
### 413-154 - CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter

**Notes**  
NO SEPARATE PAYMENT for prestressed, precast items.

**Details**  
REFERT TO SECTION 400 for other coatings. Intended to cover labor cost of penetrant sealer or Methacrylates. Pay Item 413-149 or 413-151 to cover material costs. Show locations in plans w/ quantity block.

**Related Items**  
**Required**: 413-149 or 413-151  
**Recommended**

**Forms**  
**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

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

**References**  
**PPM Chapter**
**Other**
**Standards**
**Specifications**

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

**Status**  
**Struct.**: 413-154 - CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES

---

### 415-1- A - REINFORCING STEEL

**Unit**: LB; KG  
**Accuracy**: Pound; Kilogram  
**PlanQuantity?**: yes

**Notes**  
Show locations in plans w/ quantity block by component (when component is constructed in phases break down quantity by phase). Include complete bar lists in plans.

**Details**  
APPROACH SLABS: Item No. 415- 1- 9 (2415- 1- 9) to be used with Item No. 400- 2-10 (2400- 2- 10).
Standards
ENDWALLS: 295
MISC: Index 280 for guard at pipe end
Specifications
Struct. 415-1- A
A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
8 (Bulkhead)
9 (Approach Slabs)
13 (Steps)

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0415 1 1</td>
<td>REINF STEEL- ROADWAY</td>
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<td>1/1/2007</td>
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<td>0415 1 2</td>
<td>REINFORCING STEEL- BRIDGE</td>
<td>LB</td>
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415-2- A  REINFORCING STEEL- STAINLESS

Notes
Details
Coordinate the use of Stainless Steel with the State Structures Office.

Details and Structure: Items 400 to 499
Intended for stainless steel or stainless steel clad reinforcing. Show locations in plans w/ quantity block. Include bar lists.

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

### Related Items

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

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

**Struct.** 415-2- A  
**REINFORCING STEEL- STAINLESS**  
**LB**

A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
7 (Sound Barrier Wall)
8 (Bulkhead)
9 (Approach Slabs)

**Notes**

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

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**425-1-AAB**  
**INLETS**

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

**Notes**

"Partial" is used when an existing structure is to be modified. 
"Modified" is used when the standard structure on new construction is modified. 
Modification of the Standard Index Drawing by adding weirs, notches, skimmers, and/or a change to dimensions and reinforcement, are to be detailed in the plans. 
"Special" is not limited to any particular inlet type. If a designer has a need for something
other than an inlet covered by the standard indexes, it is regarded as special (as in special
design). Special Designs require signed and sealed drawings to be included in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of
payment are available in the contract documents to clearly define the work to be completed
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**Selected Items may require Tech Spec and/or Plan Detail**

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 425-1-AAB INLETS EA

AA =
20 (Curb Type 9)
21 (Curb Type 10)
31 (Curb Type P-1) B not 3, 4, 7, or 8
32 (Curb Type P-2) B not 3, 4, 7, or 8
33 (Curb Type P-3) B not 3, 4, 7, or 8
34 (Curb Type P-4) B not 3, 4, 7, or 8
35 (Curb Type P-5) B not 3, 4, 7, or 8
36 (Curb Type P-6) B not 3, 4, 7, or 8
41 (Curb Type J-1) B not 3, 4, 7, or 8
42 (Curb Type J-2) B not 3, 4, 7, or 8
43 (Curb Type J-3) B not 3, 4, 7, or 8
44 (Curb Type J-4) B not 3, 4, 7, or 8
45 (Curb Type J-5) B not 3, 4, 7, or 8
46 (Curb Type J-6) B not 3, 4, 7, or 8
47 (Curb Type 7)
48 (Curb Type 8)
50 (Dt Bot Type A)
51 (Dt Bot Type B)
52 (Dt Bot Type C)
53 (Dt Bot Type C Mod) B not 9
54 (Dt Bot Type D)
55 (Dt Bot Type E)
56 (Dt Bot Type F)
57 (Dt Bot Type G)
58 (Dt Bot Type H)
59 (Dt Bot Type I)
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## MANHOLES

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

### Notes

The designer should consider calling for a ring and cover where routine cleanout and inspection is anticipated, such as a French Drain.

### Related Items

**Required** | **Recommended**
---|---
Design | SBDRST | COMP 700-050-03

### Forms

**Design**
- Refer to Comp Book

### Documentation

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

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

### References

**PPM Chapter**
- Index No. 200, 201

**Other**
- Standards

**Specifications**
- Prep & Doc Manual Chapter(s) 7, 13

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

### Status

**Struct.** | **425- 2-AAB** | **MANHOLES** | EA
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**Notes**

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

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### Notes

**Details**

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

### Related Items

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| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### Standards

- Index No. 200, 201
- *Selected Items may require Tech Spec and/or Plan Detail

### References

- **PPM Chapter**

### Forms

- **Other**

### Specifications

- **Index No. 200, 201**

### Status

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

- 0200 Roadway

### Notes

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

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Details and Structure: Items 400 to 499
### Topic No. 600-000-002

#### Basis of Estimates

2009 Edition

October 6, 2008

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#### 425- 4- INLET- ADJUST

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

**Notes**

Consists of changing the vertical placement of an existing inlet so that it will conform to the finished grade as designated in the plans.

**Related Items**

**Required Design**: SBDRST  
**Recommended Design**: COMP 700-050-03

**Forms**

**Construction**: Refer to Comp Book

**Documentation**

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

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

**References**

**PPM Chapter**:  
**Other**:  
**Standards**: Index No. 200, 201, 210  
**Specifications**:  
**Prep & Doc Manual Chapter(s)**: 7, 13

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

**Status**

**Struct. 425- 4- INLET- ADJUST EA**

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425 4</td>
<td>INLETS, ADJUST</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,735.70</td>
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</tbody>
</table>

#### 425- 5- A MANHOLES- ADJUST

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

**Notes**

Details and Structure: Items 400 to 499
Notes
Consists of changing the vertical placement of an existing manhole so that it will conform to the finished grade as designated in the plans.

Details

Required
Recommended
Forms
Design SBDRST COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards Index No. 200, 201
Specifications

Prep & Doc Manual Chapter(s) 7, 13

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

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<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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425- 6- VALVE BOX- ADJUST

Notes

Details

Related Items

Required
Recommended
Forms
Design SBDRST COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13
**Struct. 425-6- VALVE BOX- ADJUST EA**

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

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<th>Obsolete Date</th>
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**425-8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST**

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**425-10- YARD DRAIN**

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

Details

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

**Related Items**

**Forms**

Design: SBDRST

Construction: Refer to Comp Book

**Documentation**

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

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

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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Details and Structure: Items 400 to 499
### INLETS RELOCATION

| Unit    | EA | Accuracy | Each | PlanQuantity? | no |

#### Notes

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

#### Details

**Related Items**

- **Required**
  - Design: SBDRST
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

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

#### Status

- **Struct.**: 425- 71- INLETS RELOCATION EA

#### Notes

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

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<td>$5,000.00</td>
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### MANHOLES AND INLETS, CLEANING & SEALING

| Unit    | EA | Accuracy | Each | PlanQuantity? | no |

#### Notes

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

#### Details

**Related Items**

- **Required**
  - Design: SBDRST
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### 425-74- A

**MANHOLES AND INLETS, CLEANING & SEALING EA**

A =
1 (<10')
2 (>10')

### Notes

- Plan Detail and/or Tech Spec Required

### References

- PPM Chapter
- Other
- Standards
- Specifications

---

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

#### Status

**Struct.** 425-74- A

**MANHOLES AND INLETS, CLEANING & SEALING EA**

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

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<tr>
<th>Item</th>
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<th>LRE Ref Price</th>
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### 425-78-

**INLET CAP, PRECAST**

<table>
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<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

#### Status

**Struct.** 425-78-

**INLET CAP, PRECAST EA**

### Notes

- Plan Detail and/or Tech Spec Required

### References

- PPM Chapter
- Other
- Standards
- Specifications

---

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

#### Status

**Struct.** 425-78-

**INLET CAP, PRECAST EA**

---

**Details and Structure: Items 400 to 499**
### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>INLET CAP, PRECAST</td>
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<td>1/1/2007</td>
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</tbody>
</table>

#### Notes

**Details**

Payment includes "...new grates, and removing and stockpiling existing grates", per specification.

**Related Items**

**Required**

- Design: SBDRST

**Recommended**

- Design: COMP 700-050-03

**Forms**

- Design: Refer to Comp Book

**Documentation**

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

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

**References**

- PPM Chapter
- Other Standards
- Specifications

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

---

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

### Struct. 425- 82- REPLACE GRATE

#### Notes

**Details**

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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<tbody>
<tr>
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<td></td>
<td>1/1/2007</td>
<td></td>
<td>$805.93</td>
</tr>
</tbody>
</table>

#### Notes

**Details**

Includes furnishing equipment and labor necessary to desilt the pipe, and also includes disposing of all silt and debris removed during the desilting operation. Summarize on plans by pipe location, diameter (or equivalent round diameter), and length to be desilted.

**Related Items**

**Required**

- Design: SBSPMS; SBSDMES

**Recommended**

- Design: COMP 700-050-03

**Forms**

- Design: Refer to Comp Book

**Documentation**

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

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

- **Struct. 430-94- AA DESILT PIPE LF**
  - **AA**: Pipe Diameter
  - 1 (0 to 24”)
  - 2 (25-36”)
  - 3 (37-48”)
  - 4 (49-60”)
  - 5 (61” or greater)

### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<tr>
<td>0430 94 2</td>
<td>DESILTING PIPE, 25 - 36”</td>
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<tr>
<td>0430 94 3</td>
<td>DESILTING PIPE, 37 - 48”</td>
<td>LF</td>
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<td>$15.97</td>
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<tr>
<td>0430 94 4</td>
<td>DESILTING PIPE, 49 - 60”</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>0430 94 5</td>
<td>DESILTING PIPE, 61” OR GREATER</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$20.19</td>
</tr>
</tbody>
</table>

**430-150-ABB CAST IRON SOIL PIPE**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **Plan Quantity?**: yes

**Notes**: Inactive Structure; verify applicable standard index

**Details**: to be used in accordance with Index 282 for back of sidewalk drainage only.

**Related Items**

**Forms**

- **Design**: SBDRST
- **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 282
- **Specifications**

---

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

**Status**

- Inactive Structure

---

Details and Structure: Items 400 to 499
Struct.  430-150-ABB  |  CAST IRON SOIL PIPE  |  LF

A =
1 (Service) SV
BB = Standard Pipe Sizes
13 (4")

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

430-17A-BCC  |  PIPE CULVERT OPTIONAL MATERIAL

| Unit               | LF; M1 | Accuracy            | Linear Foot; 10th of a Meter | PlanQuantity? | yes |

Notes
Selected items valid through 6-30-08. See pay item structure.

Details
Show application, size, and material with class/gage/corrugation on the contract plans. Refer to Index 205 for valid sizes, class/gage/corrugation. For pipe other than round (elliptical concrete and metal pipe arch) show actual size, class/gage/corrugation shown on standard index 205. Use equivalent round pipe size for payment.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
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<td>Construction</td>
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<tr>
<td>Documentation</td>
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</table>

References

PPM Chapter
Other
Drainage Manual
Specifications
Index No. 205

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

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.  430-17A-BCC  |  PIPE CULVERT OPTIONAL MATERIAL  |  LF

A =
1 (Storm Sewer) SS valid through 6-30-08, replaced by A=5
2 (Cross Drain) CD valid through 6-30-08, replaced by A=5
3 (Gutter Drain) GD
4 (Side Drain) SD
5 (Storm and Cross Drain) S/CD effective 7-1-08

B = Shape
1 (Round Shape)
2 (Other –Elip/Arch)

CC= Standard Pipe Sizes (effective 1/1/2007)
01 (up to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 430-200-ABB FLARED END SECTION

**Notes**

Intended for use outside the clear zone on median drain and cross drain installations. Pipe sizes 12" and 15" (300 mm and 375 mm) are permitted within the clear zone. Specifically not intended for side drain installation.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Related Items**

**Forms**

- **Required** (Design): SBDRST
- **Recommended** (Construction): COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other Standards**: Index No. 270
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

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

**Struct.**

430-200-ABB FLARED END SECTION EA

A = Blank (Concrete)
BB = Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

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

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430-6AB-CDD  U-ENDWALL

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Notes
Details
Refer to Standard Index 260 or 261 for proper selection. To be used only in the clear zone for the drainage of medians and other areas having low design velocities. Precasting or cast-in-place will be permitted. Cost of this item shall include concrete, reinforcing steel, grate and all accessories.

For items included on Index 250, payment will be made under concrete and steel items. Refer to Design Standards.

Related Items
Forms
Required          Recommended
Design    SBDRST     COMP 700-050-03
Construction      Refer to Comp Book

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

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

References
PPM Chapter
Other
Standards         Index No. 260, 261
Specifications

Details and Structure: Items 400 to 499
**Struct.  430-6AB-CDD U-ENDWALL EA**

A = Index No.
0 (Std 260) when A = 0, BC = 21
1 (Std 261)

B = Appurtenance
0 (none)
1 (baffles)
2 (grate)
3 (baffles and grate)

C = slope
0 (1:6)
1 (1:4)
2 (1:3)
3 (1:2)

DD = Standard Pipe Sizes
23 (15")
25 (18")
29 (24")
33 (30")

---

**Notes**

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

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<th>Item</th>
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### 430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT

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### Related Items
- **Required**
  - Design: SBSPMS; SBSDMES
  - Construction: Refer to Comp Book
- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References
- **PPM Chapter**
  - Index No. 205, 285
- **Other Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

### TRANS*PORT Category (DRAFT FIELD)
- 0200 Roadway

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**Notes**

- 0430612333 Endwall, Grate, STD 261, 1:2 Slope, 30" Pipe: EA 1/1/2007 $4,000.00
- 0430613025 Endwall, with baffles & grate, STD 261, 1:6 Slope, 18" Pipe: EA 1/1/2007 $2,982.50
- 0430613123 Endwall, with baffles & grate, STD 261, 1:4 Slope, 15" Pipe: EA 1/1/2007 $4,500.00
- 0430613125 Endwall, with baffles & grate, STD 261, 1:4 Slope, 18" Pipe: EA 1/1/2007 $5,001.39
- 0430613133 Endwall, with baffles & grate, STD 261, 1:4 Slope, 30" Pipe: EA 1/1/2007 $3,812.76
- 0430613225 Endwall, with baffles & grate, STD 261, 1:3 Slope, 18" Pipe: EA 1/1/2007 $3,169.33
- 0430613233 Endwall, with baffles & grate, STD 261, 1:3 Slope, 30" Pipe: EA 1/1/2007 $3,647.00
- 0430613325 Endwall, with baffles & grate, STD 261, 1:2 Slope, 18" Pipe: EA 1/1/2007 $2,635.79
- 0430613333 Endwall, with baffles & grate, STD 261, 1:2 Slope, 30" Pipe: EA 1/1/2007 $0.00

**Struct.** 430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT LF

**A** = 1 (Storm Sewer) French Drain ONLY

**B** = Material
4 (Optional)

CC = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

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

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<th>Valid Date</th>
<th>Obsolete Date</th>
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430-82A- BB CLEANING & SEALING EXISTING PIPE JOINT

<table>
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<th>Unit</th>
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<th>Accuracy</th>
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<tbody>
<tr>
<td></td>
<td>EA</td>
<td>Each</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes
For cleaning and sealing existing joints only. Coordinate use of this item w/ State Drainage Office to evaluate the condition of the existing pipe. Replacement of the pipe (paid under optional pipe) should be considered. Tech Specs should detail the work to be completed, the sealing materials, and any testing that may be required.

Related Items
Required
Design SBDRST
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03
Construction

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

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

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
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<tbody>
<tr>
<td>Standards</td>
<td>Specifications</td>
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### Plan Detail and/or Tech Spec Required

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

### TRNS*PORT Category (DRAFT FIELD):

0200 Roadway

### Status

Inactive Structure

### Struct.

430-82A- BB  CLEANING & SEALING EXISTING PIPE JOINT EA

A =

1 (Storm Sewer)
2 (Cross Drain)

BB = Standard Pipe Sizes

23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")
47 (84")
48 (90")
49 (96")
50 (102")
51 (108")
52 (120")
53 (132")
54 (144")
55 (156")
56 (168")
57 (180")

### Notes

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

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<tr>
<th>Item</th>
<th>Description</th>
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</table>
### 430-830- PIPE FILLING AND PLUGGING

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

**Details**

to be used only for filling/plugging existing drainage culverts, where called for in the plans. Per the specifications, "The cost of filling and plugging pipe shown in the plans as existing, to be placed out of service"  
NOTE: "The cost of plugging pipe, shown in the plans as proposed new pipe, will be included in the contract unit price for pipe culvert." (Do not use this pay item for new pipe.)

**Related Items**

<table>
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**References**

PPM Chapter  
Other  
Specifications

Index No. 280

**Prep & Doc Manual Chapter(s)**

6, 7, 13

---

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

### Status

**Struct.** 430-830- PIPE FILLING AND PLUGGING  
**Unit**: CY

---

**Notes**

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

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<th>Description</th>
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| 430-860- A | STORM SEWER TRENCH | LF; M1 | Linear Foot; 10th of a | PlanQuantity? | yes |

---

Details and Structure: Items 400 to 499
### Meter

**Notes**

**Details**

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**Notes**

**Related Items**

**Forms**

**Documentation**

**References**

**PPM Chapter**

**Design**

**Construction**

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

---

**TRNS**\(^{PORT}\) **Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 430-860- A **STORM SEWER TRENCH** LF

A =

2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

**Notes**

---

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

### 430-880- AA FLAP GATES

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

**Notes**

Effective January 2007 sizes AA= 1 to 5 effective. Sizes AA=21 and greater valid through 12-31-06.

**Details**

Refer to Drainage Manual for additional information.

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

**Related Items**

**Forms**

**Documentation**

<table>
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**Notes**

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**Related Items**

**Forms**

**Documentation**

**References**

**PPM Chapter**

**Design**

**Construction**

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

---

**TRNS**\(^{PORT}\) **Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 430-860- A **STORM SEWER TRENCH** LF

A =

2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

**Notes**

---

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

### 430-880- AA FLAP GATES

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

**Notes**

Effective January 2007 sizes AA= 1 to 5 effective. Sizes AA=21 and greater valid through 12-31-06.

**Details**

Refer to Drainage Manual for additional information.

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

**Related Items**

**Forms**

**Documentation**

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**Notes**

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**Related Items**

**Forms**

**Documentation**

**References**

**PPM Chapter**

**Design**

**Construction**

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

---

**TRNS**\(^{PORT}\) **Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 430-860- A **STORM SEWER TRENCH** LF

A =

2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

**Notes**

---

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

### 430-880- AA FLAP GATES

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

**Notes**

Effective January 2007 sizes AA= 1 to 5 effective. Sizes AA=21 and greater valid through 12-31-06.

**Details**

Refer to Drainage Manual for additional information.

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

**Related Items**

**Forms**

**Documentation**

<table>
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<tr>
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**Notes**

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**Related Items**

**Forms**

**Documentation**

**References**

**PPM Chapter**

**Design**

**Construction**

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

---

**TRNS**\(^{PORT}\) **Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 430-860- A **STORM SEWER TRENCH** LF

A =

2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Structural 430-880- AA FLAP GATES EA

- **AA**: Standard Pipe Sizes (effective 1/1/2007)
  - 01 (0 to 24"
  - 02 (25 to 36"
  - 03 (37 to 48"
  - 04 (49 to 60"
  - 05 (61" or greater)

### Notes

**Plan Detail and/or Tech Spec Required**: Prep & Doc Manual Chapter(s) 7, 13

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

---

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

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### 430-950- DESILTING CONCRETE BOX CULVERT

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

### Notes

**Details**: Payment is for the VOLUME OF SILT removed, based on the length and width of the box culvert, and the average DEPTH OF SILT to be removed.

### Related Items

**Forms**
- **Design**: SBDRST  
- **Construction**: 700-050-54

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

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

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

---

### Status

**Struct.**: 430-950- DESILTING CONCRETE BOX CULVERT CY

**Notes**

**Details and Structure**: Items 400 to 499
**Notes**

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

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<th>Item</th>
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</table>

**Item 430-963- AA PVC PIPE FOR BACK OF SIDEWALK DRAINAGE**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **Plan Quantity?**: Yes

**Notes**

Effective January 2007; replaces 430-96A-BCC

For use according to Design Standard for back of sidewalk applications. For all other applications, including gutter drain, use Optional Pipe.

**Related Items**

- **Required**: Standard
- **Recommended**: Non-Standard diameter

**Forms**

- **Design**: SBDRST
- **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: Index 282
- **Other**: Preparatory & Documentation Manual Chapter(s)

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

**Struct.** 430-963- AA PVC PIPE FOR BACK OF SIDEWALK DRAINAGE LF

A=

1. (4" diameter) Standard
2. (Non-Standard diameter)

**Notes**

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

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<tr>
<th>Item</th>
<th>Description</th>
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<tr>
<td>0430963 2</td>
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<td>1/1/2007</td>
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</table>

**Item 430-970- PROTECTIVE PIPE BEDDING**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **Plan Quantity?**: No

**Notes**

Pipe bedding is incidental to cost of pipe for most applications. If a special bedding is needed, contact the State Drainage Office prior to requesting this item.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
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<tr>
<td>Construction</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

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

**Notes**

Contact the State Drainage Office prior to opening.

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

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

**Status** Inactive Structure

**Struct.** 430-970- PROTECTIVE PIPE BEDDING LF

**Notes**

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

**430-98A-BCC** MITERED END SECTION

- **Unit** EA
- **Accuracy** Each
- **PlanQuantity?** yes

**Details**

Includes all pipe, grates (when required), fasteners, reinforcement, connectors, anchors, concrete, sealants, jackets, coupling bands, and all work required to install the mitered end section. Show shape and size on the contract plans. Refer to Index 273 for valid sizes. Use equivalent round pipe size for payment.

**Related Items**

<table>
<thead>
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<th>Forms</th>
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<tr>
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<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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**References**

- **PPM Chapter**
- **Other**
- **Standards** Index No. 205, 272, 273
- **Specifications**

**Prep & Doc Manual Chapter(s)** 6, 13
**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

**Status**

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Notes

Refer to Standard Index 205

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Details and Structure: Items 400 to 499
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### 431-1-A PIPE LINER, OPTIONAL MATERIAL

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>Notes</th>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td>Effective January 2007 letting; replaces 431-1-ABB.</td>
</tr>
</tbody>
</table>

#### Details

This item is used to rehabilitate an existing pipe by forming a lining on the host pipe's interior, thereby allowing a debilitated pipe to regain strength and performance capabilities. Box to Box liners are preferred. Contact the State Drainage Office if sectional liners are considered (see item 908-431-A)

Design with manufacturer's lengths in mind for all practical applications. Refer to specifications for current industry practices.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
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<td>SBDRST</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

#### Documentation

**Design**

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

**Construction**

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

#### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 6, 7, 13
**TRNS*PORT Category (DRAFT FIELD):**  0200  Roadway

**Status**

**Struct.**  431-  1-  A  PIPE LINER, OPTIONAL MATERIAL  LF

A= Size Range
1 (0=24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" and greater)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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**432- 3- A** CHEMICAL GROUT REPAIR - PIPE, NON-TEST

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<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>EA</td>
<td>Each</td>
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</table>

**Notes**

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

**Related Items**

**Required**

<table>
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<tr>
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<tr>
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**Recommended**

<table>
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<tr>
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<tr>
<td>COMP 700-050-03</td>
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**Documentation**

<table>
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<tr>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**Prep & Doc Manual Chapter(s)**

**Plan Detail and/or Tech Spec Required**

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

**Status**

Details and Structure: Items 400 to 499
**Struct. 432-3- A**

**CHEMICAL GROUT REPAIR - PIPE, NON-TEST**

EA

A =
1 (15”)
2 (18”)
3 (21”)
4 (24”)
5 (30”)
6 (36”)
7 (42”)
8 (48”)
9 (54”)
10 (66”)
11 (72”)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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**433-1-**

**CHEMICAL GROUT REPAIR - MANHOLE/INLET**

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<tr>
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</table>

**Notes**

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

**Related Items**

**Required**
- Design: SHTabQuant

**Recommended**
- Construction: COMP 700-050-03

**Forms**
- Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Standards

**Struct. 433-1-**  
**CHEMICAL GROUT REPAIR- MANHOLE/INLET**  
**EA**

### Notes

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

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### 435-1- AA  
**STRUCTURAL PLATE PIPE CULVERT**

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<tbody>
<tr>
<td>LF; M1</td>
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<td>yes</td>
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</table>

### Notes

Coordinate the use of this item with the State Drainage Office prior to requesting pay items.

### Related Items

- **Required**
- **Recommended**

### Forms

- **Design**
- **Construction**

### Documentation

- **Design**
- **Construction**

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

---

### Status

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

**Struct. 435-1- AA  
**STRUCTURAL PLATE PIPE CULVERT**  
**LF**

AA= Blank for drainage applications  
99 (Animal Crossing)

### Notes

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<td>$1,000.00</td>
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</table>
436- 1- A  TRENCH DRAIN

**Unit**  LF; M1  **Accuracy**  Linear Foot; 10th of a Meter  **PlanQuantity?**  no

**Notes**
Use in accordance with Index 206. Various alternatives are available on the standard.

**Details**
Special should only be used if you have a significant design change. Plan Details and/or Tech Spec will be required. Minor changes may be noted in the plans with the "standard" item.

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

**Related Items**

<table>
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<th>Required</th>
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<td>Design</td>
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</tr>
<tr>
<td>Construction</td>
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</table>

**Documentation**

| Design       | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter  Other

**Standards**  Index No. 206

**Specifications**

*Selected Items may require Tech Spec and/or Plan Detail*

**Prep & Doc Manual Chapter(s)**

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

**Status**

**Struct.**  436- 1- A  TRENCH DRAIN  LF

A = size
1 (Standard)
2 (Special)*

**Notes**  * Special may require Tech Spec and/or Plan Detail

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

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<th>Item</th>
<th>Description</th>
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</tbody>
</table>

440- 1- AA  UNDERDRAIN

**Unit**  LF; M1  **Accuracy**  Linear Foot; 10th of a Meter  **PlanQuantity?**  no

**Notes**

**Details**  Item based on the size of the smooth interior product. Price per length shall include cost of pipe, fittings, aggregate, sock, filter fabric, cleanouts, and concrete aprons.

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>0440 1 50</td>
<td>UNDERDRAIN, TYPE V</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$66.42</td>
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<tr>
<td>0440 1 60</td>
<td>UNDERDRAIN, TYPE SPECIAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$95.91</td>
</tr>
</tbody>
</table>

440- 70- UNDERDRAIN INSPECTION BOX

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

Related Items

Forms

Design

SBUNDR; SBUnderdrain

Recommended

COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

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

Construction

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

References

PPM Chapter

Design

Construction

Other

Standards

Index No. 245, 286

Specifications

Prep & Doc Manual Chapter(s)

7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 440- 1- AA UNDERDRAIN LF

AA =
10 (Type I)
20 (Type II)
30 (Type III)
50 (Type V)
60 (Type Special)
Specifications

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

Struct. 440-70- UNDERDRAIN INSPECTION BOX EA

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0440</td>
<td>UNDERDRAIN INSPECTION BOX</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$1,926.54</td>
</tr>
</tbody>
</table>

440-73- A UNDERDRAIN OUTLET PIPE

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
PlanQuantity? no

Notes

Use in accordance with Standard Index. Price per length includes trench excavation, pipe, fittings, concrete aprons, hardware cloth for concrete aprons, stubbing into drainage structures, backfill in place, and removal of excess materials.

Related Items

Required
Design SBUNDR; SBUnderdrain
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03
Construction Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Documentation

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

References

PPM Chapter
Other
Standards Index No. 286
Specifications

Prep & Doc Manual Chapter(s) 7, 13

Status

Struct. 440-73- A UNDERDRAIN OUTLET PIPE LF

A = Size
1 (4")
2 (6")
3 (8")
4 (10")
5 (12") Note: 12” is non-standard; will require plan details and/or Tech Spec
6 (5")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0440 73 1</td>
<td>UNDERDRAIN OUTLET PIPE, 4&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$17.85</td>
</tr>
<tr>
<td>0440 73 2</td>
<td>UNDERDRAIN OUTLET PIPE, 6&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$38.74</td>
</tr>
<tr>
<td>0440 73 3</td>
<td>UNDERDRAIN OUTLET PIPE, 8&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
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<td></td>
<td></td>
<td>$88.27</td>
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<tr>
<td>0440 73 4</td>
<td>UNDERDRAIN OUTLET PIPE, 10&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
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<td></td>
<td></td>
<td>$36.83</td>
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<tr>
<td>0440 73 5</td>
<td>UNDERDRAIN OUTLET PIPE, 12&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$39.73</td>
</tr>
</tbody>
</table>

### 442- 70- VERTICAL DRAINAGE WICKS

**Unit:** LF; M1  
**Accuracy:** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

#### Notes

- **Details**

  - **Required**
    - **Forms** Design: SBDRST  
    - **Construction** Refer to Comp Book
  - **Documentation** Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
    - **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**
- **Other** Standards  
- **Specifications**

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

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

#### Status

**Struct.** 442- 70- VERTICAL DRAINAGE WICKS LF

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<th>Price</th>
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<tbody>
<tr>
<td>0442 70</td>
<td>VERTICAL DRAINAGE WICKS</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$2.17</td>
</tr>
</tbody>
</table>

### 443- 70- AA FRENCH DRAIN

**Unit:** LF; M1  
**Accuracy:** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

#### Notes

- **Details**

  - This item includes furnishing and placing pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric, and also includes trenching, backfilling, sheeting and, when necessary, pavement restoration.

#### Related Items

- **Required**
  - **Forms** Design: SBDRST  
  - **Construction** Refer to Comp Book
  - **Documentation** Design: Locate in plans. Summarize quantities by location on tabulation of quantities
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0443 70 3</td>
<td>FRENCH DRAIN, 18&quot;</td>
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<td>1/1/2007</td>
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<tr>
<td>0443 70 4</td>
<td>FRENCH DRAIN, 24&quot;</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>$156.88</td>
</tr>
<tr>
<td>0443 70 5</td>
<td>FRENCH DRAIN, 30&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$269.33</td>
</tr>
<tr>
<td>0443 70 6</td>
<td>FRENCH DRAIN, 36&quot;</td>
<td>LF</td>
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<tr>
<td>0443 70 7</td>
<td>FRENCH DRAIN, 42&quot;</td>
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<td>$269.33</td>
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<tr>
<td>0443 70 8</td>
<td>FRENCH DRAIN, 48&quot;</td>
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<td>1/1/2007</td>
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<td>$464.67</td>
</tr>
</tbody>
</table>

**443- 71- A BALLAST ROCK**

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

**Notes**

- **Details**: Do not use with 443-70 French Drain item; refer to Index 285 for details

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-04

**Forms**

- **Design**: SHTabQuant
- **Construction**: 700-050-54

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

**References**

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

TRNS*PORT Category (DRAFT FIELD):  0200 Roadway

Status

Struct.  443- 71- A  BALLAST ROCK  CY

A =
1 (French Drain Aggregate)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0443</td>
<td>BALLAST ROCK, FRENCH DRAIN AGGREGATE</td>
<td>CY</td>
<td>1/1/2007</td>
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<td></td>
<td>$81.88</td>
</tr>
</tbody>
</table>

444- 70- AA  WELL OPEN HOLE (DEEP)

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

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

Related Items  Required  Recommended

Forms  Design  SHTabQuant  COMP 700-050-03

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

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

References  PPM Chapter  Other

Standards  Specifications  

Plan Details and/or Tech Spec Required

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

TRNS*PORT Category (DRAFT FIELD):  0200 Roadway

Status

Struct.  444- 70- AA  WELL OPEN HOLE (DEEP)  LF

AA =
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")

Details and Structure: Items 400 to 499

Page 77 of 146
Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0444 70 11</td>
<td>WELL OPEN HOLE, DEEP, 24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$192.52</td>
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</tbody>
</table>

**444-71- AA** WELL CASING (DEEP)

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **PlanQuantity?**: no

Notes

**Details**

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

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: Refer to Comp Book
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other Standards**
- **Specifications**

**Plan Details and/or Tech Spec Required**

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

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

**Status**

- **Struct.** 444-71- AA WELL CASING (DEEP) LF

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0444 71 11</td>
<td>WELL CASING, DEEP, 24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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</tr>
</tbody>
</table>

**444-72- AA** DEEP WELL CLEANING

Details and Structure: Items 400 to 499

Page 78 of 146
Unit LF; M1 Accuracy Linear Foot; 10th of a Meter

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

Related Items Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Notes
Details

References PPM Chapter Other Standards Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status Inactive Structure

Struct. 444-72- AA DEEP WELL CLEANING LF

AA = Well Diameter
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")
14 (30")
17 (36")

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0444 72 11</td>
<td>DEEP WELL CLEANING, 24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$82.05</td>
</tr>
</tbody>
</table>

446-1- A EDGEDRAIN DRAINCRETE

Notes
Details Price per length includes removal of existing shoulder pavement, trench excavation, disposal of excess materials, filter fabric, draincrete, edgedrain pipe and fittings. Refer to Design Standard for payment details, based on new/rehab construction.

Related Items Required Recommended
Forms Design SBEDDR; SBEdgedrains COMP 700-050-03
Standards Index No. 286, 287
Specifications

Struct. 446-1- A EDGEDRAIN DRAINCRETE LF

A = pipe size
1 (Standard)
9 (non-standard)*
standard per Index 287 is 4"

Notes
* non-standard may require Tech Spec and/or Plan Detail

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0446 1</td>
<td>EDGEDRAIN DRAINCRETE, STANDARD</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$21.20</td>
</tr>
</tbody>
</table>

446-71- A EDGEDRAIN OUTLET PIPE

Unit LF; M1  Accuracy Linear Foot; 10th of a Meter  PlanQuantity? no

Notes
Details Includes removal of existing shoulder pavement, trench excavation, pipe and fitting, concrete apron, sod, stubbing into existing inlets and paved ditches, etc. Refer to Design Standard for details.

Related Items
Forms Required Recommended
Design SBEDDR; SBEdgedrains COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards Index No. 287
Specifications

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway
**Struct. 446-71- A**  
**EDGEDRAIN OUTLET PIPE**  

A = pipe size  
1 (4")  
9 (non-standard) Note: standard per Index 287 is 4"  

**Notes**  
* non-standard item may require Tech Spec and/or Plan Detail

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0446 71 1</td>
<td>EDGEDRAIN OUTLET PIPE, 4&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$21.80</td>
</tr>
</tbody>
</table>

448-73- **PUMPING STATION**

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

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

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

**Forms**  
**Design** SHTabQuantLS  
**Construction** Refer to Comp Book

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

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

**References**  
**PPM Chapter**  
**Other**  
**Standards**  
**Specifications**

---

**Plan Detail and/or Tech Spec Required**

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

---

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

**Status**

**Struct. 448-73-**  
**PUMPING STATION**

---

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0448 73</td>
<td>PUMPING STATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,426,250.00</td>
</tr>
</tbody>
</table>

450-1-AAA **PRESTRESSED BEAMS**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** yes

---

**Details and Structure:** Items 400 to 499
Intended for prestressed beams for bridge construction. Summarize quantities by location per span.

AAA= 201, 202, 203 are typically used for bridge widening projects. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.

AAA=278, 378 are typically used for post-tensioned beams. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.

Non-Standard beam types: Coordinate standards (as applicable / if available), with details shown in the plans.

Other beam types: Pay Items for other beam types may be expanded upon request. Minor "non-standard" changes may be paid under the applicable beam type, with applicable details in the plans or specifications.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong> SHTabQuant <strong>Construction</strong> Refer to Comp Book</td>
</tr>
<tr>
<td><strong>Documentation</strong> Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. <strong>Construction</strong> Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### Standards

- Index No. 20110 thru 20199, and 20310, 20320.

### Specifications

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

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

### Status

**Struct.**  450- 1-AAA **PRESTRESSED BEAMS** LF

AAA =
1 (Type II)
2 (Type III)
3 (Type IV)
4 (Type V)
5 (Type VI)
7 (Special) see pay item details
54 (Bulb T, 54") *non-standard
63 (Bulb T, 63") *non-standard
72 (Bulb T, 72")
78 (Bulb T, 78")
118 (Florida Double Tee, Fdt18) *non-standard
124 (Florida Double Tee, Fdt24) *non-standard
130 (Florida Double Tee, Fdt30) *non-standard
201 (Type II Modified) *non-standard
202 (Type III Modified) *non-standard
203 (Type IV Modified) *non-standard
250 (Inverted T, 20")
278 (Bulb T, 78", Modified, w/post tensioning) *non-standard
378 (Bulb T, 78", Haunched, Modified, w/post tensioning) *non-standard

### Notes

---

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0450 1 1</td>
<td>PRESTRESSED BEAMS, TYPE II</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$119.26</td>
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<tr>
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<td>PRESTRESSED BEAMS, TYPE III</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$169.41</td>
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</tr>
<tr>
<td>0450 1 3</td>
<td>PRESTRESSED BEAMS, TYPE IV</td>
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<td>1/1/2007</td>
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<tr>
<td>0450 1 4</td>
<td>PRESTRESSED BEAMS, TYPE V</td>
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<td>0450 1 5</td>
<td>PRESTRESSED BEAMS, TYPE VI</td>
<td>LF</td>
<td>1/1/2007</td>
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<tr>
<td>0450 1 7</td>
<td>PRESTressed BEAMS, SPECIAL</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$137.27</td>
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<tr>
<td>0450 1 72</td>
<td>PRESTRESSED BEAMS, BULB T - 72&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td>$287.39</td>
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<tr>
<td>0450 1201</td>
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<td>LF</td>
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<tr>
<td>0450 1202</td>
<td>PREST BEAMS, TYPE III, MODIFIED</td>
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<tr>
<td>0450 1203</td>
<td>PRESTRESSED BEAMS, TYPE IV</td>
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<td>1/1/2007</td>
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<tr>
<td>0450 1250</td>
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<td>1/1/2007</td>
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</tr>
</tbody>
</table>

450- 3- AB PRESTRESSED SLAB UNITS

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: yes

**Notes**

Intended for non-post-tensioned prestressed bridge deck panels w/ concrete wearing surface.

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

**Related Items**

**Required**

**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

**Recommended**

**Design**: COMP 700-050-03  
**Construction**: PLAN QUANTITY will be basis of payment to the Contractor.

**Documentation**

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

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

**References**

**PPM Chapter**: SHTabQuant  
**Other**: SDG’s 4.4

**Prep & Doc Manual Chapter(s)**

**Plan Detail and/or Tech Spec Required**

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

**Struct.** 450- 3- AB PRESTRESSED SLAB UNITS LF

Details and Structure: Items 400 to 499
### Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0450 3 11</td>
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<td>1/1/2007</td>
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<tr>
<td>0450 3 15</td>
<td>PRESTRESSED SLAB UNITS, WIDTH 48&quot;, THICKNESS 15&quot;</td>
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<td>1/1/2007</td>
<td></td>
<td>$215.82</td>
</tr>
<tr>
<td>0450 3 21</td>
<td>PRESTRESSED SLAB UNITS, WIDTH 60&quot;, THICKNESS 12&quot;</td>
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<td>1/1/2007</td>
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<td>$300.00</td>
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<tr>
<td>0450 3 22</td>
<td>PRESTRESSED SLAB UNITS, WIDTH 60&quot;, THICKNESS 16&quot;</td>
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<td>1/1/2007</td>
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<td>0450 3 41</td>
<td>PRESTRESSED SLAB UNITS, WIDTH 72&quot;, THICKNESS 12&quot;</td>
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<td>1/1/2007</td>
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<tr>
<td>0450 3 55</td>
<td>PRESTRESSED SLAB UNITS, WIDTH 36&quot;, THICKNESS 15&quot;</td>
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<td>1/1/2007</td>
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<td>$300.00</td>
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</table>

#### 450- 4-AAA PRESTRESSED BEAM (FLORIDA U-BEAM)

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**Plan Quantity?** yes

**Notes**

Intended for prestressed Florida U-beams for bridge construction. Summarize quantities by location per span.

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

**Related Items**

<table>
<thead>
<tr>
<th>Related Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

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

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

References
PPM Chapter
Other Standards
Index No. 20210 thru 20299
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 450-4-AAA  PRESTRESSED BEAM (FLORIDA U-BEAM) LF

AAA =
1 (48")
2 (54")
3 (63")
4 (72")

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0450 4 2</td>
<td>PRESTRESSED BEAM- FL U-BEAM, 54&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
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<tr>
<td>0450 4 4</td>
<td>PRESTRESSED BEAM- FL U-BEAM, 72&quot;</td>
<td>LF</td>
<td>1/1/2007</td>
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450-82- BEAM REPAIR

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes

Details
Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items. See also item 450-83.

Related Items

Forms
Design Required SHTabQuant Recommended COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13
**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 450-82- BEAM REPAIR LF

**Notes**

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

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<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>BEAMS REPAIR</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>$0.00</td>
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</tbody>
</table>

### 450-83- A BEAM REPAIR

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

**Notes**

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items. See also item 450-82.

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

**Related Items**

**Forms**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Refer to Comp Book

**Documentation**

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

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

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec**

- **Required**
- **Prep & Doc Manual Chapter(s)** 7, 13

---

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

**Struct.** 450-83- A BEAM REPAIR EA

A =

- 1 (Strand Splices)
- 2 (Bar Splices)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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<tr>
<td>0450 83 1</td>
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<td>EA</td>
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Details and Structure: Items 400 to 499
PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter  
**Plan Quantity?**: no

**Notes**

**Details**

Intended for post-tensioned prestressed bridge deck panels w/ concrete or asphalt wearing surface.

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

**Related Items**

<table>
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<th>Recommended</th>
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<tbody>
<tr>
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<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
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</table>

**Forms**

Refer to Comp Book

**Documentation**

**Design**

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

**Construction**

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

**References**

<table>
<thead>
<tr>
<th>Other Standards</th>
<th>Specifications</th>
</tr>
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<tbody>
<tr>
<td>SDG's 4.4</td>
<td>Plan Detail and/or Tech Spec Required</td>
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</table>

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

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

**Status**

**Struct.** 450- 88- AA

**Notes**

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

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<th>Item</th>
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<td></td>
<td>$0.00</td>
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</table>
451- 70- AA  PRESTRESSED SOIL ANCHOR

Notes
Details
For permanent applications only. Do not pay for separately when prestressed soil anchors are part of a temporary steel sheet pile wall system. Intended for payment of prestressed soil anchor, proof and creep test. See specification 451-12. Show anchor spacing and force/anchor. Show locations in plans w/ quantity block.

Related Items
Form Required Recommended
Design SHTabQuant COMP 700-050-03

Notes
Details
Struct. 451- 70- AA  PRESTRESSED SOIL ANCHOR  EA

Notes

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

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<th>Description</th>
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<td>1/1/2007</td>
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<td>$1,448.14</td>
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</table>

452- 70- PRECAST SEGMENT PRODUCTION

Notes
Details
Intended to cover for segmental casting yard set-up costs. Required on all Precast Segmental Bridge Projects.

Related Items
Form Required Recommended
Design SHTabQuantLS COMP 700-050-05
Standards
Specifications
Struct. 452-70- PRECAST SEGMENT PRODUCTION LS/LS

Notes

Status
Struct. 452-70- PRECAST SEGMENT PRODUCTION LS/LS

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

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<th>Item</th>
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<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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<tbody>
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<td>0452 70</td>
<td>PRECAST SEGMENT PRODUCTION</td>
<td>LS</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
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</tbody>
</table>

455-2- A TREATED TIMBER PILING

Notes
Details
Designer must verify material requirements with State Materials Lab prior to requesting item.

Intended for temporary detour bridge applications, or special use structures. Summarize quantities by location per bent. The quantity to be paid shall be the length, in feet (meters), of piling actually remaining in the completed structure below the elevation of cut-off shown in the plans or designated by the Engineer.

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

Related Items
Forms
Required
Design SHTabQuant
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03

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

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

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

Plan Detail and/or Tech Spec Required

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

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

Status

Struct.  455-  2-  A  TREATED TIMBER PILING  LF

A = Treatment
Blank (Single Treatment)
1 (Dual Treatment)

Notes
Designer must verify material requirements with State Materials Lab prior to requesting item.

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<tbody>
<tr>
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<td>1/1/2007</td>
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</tr>
</tbody>
</table>

455- 14- AA  CONCRETE SHEET PILING

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

Details  Intended for concrete sheet pile walls. Show locations in plans. Include quantity block in plans.

Related Items

Required  Recommended
Forms  Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards  Index 20400 thru 20440
Specifications

Prep & Doc Manual Chapter(s)  7, 13

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

Status

Struct.  455-  14-  AA  CONCRETE SHEET PILING  LF

A =
1 (7" X 30")
2 (8" X 30")
3 (10" X 30")
4 (12" X 30")
5 (Special)
6 (6" X 30")
7 (5" X 24")
8 (6" X 48")
Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<th>LRE Ref</th>
<th>Price</th>
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</thead>
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<td>CONCRETE SHEET PILING, 8&quot;X30&quot; LF</td>
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</table>

### 455-18-

**PROTECTION OF EXISTING STRUCTURES**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
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</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
</tr>
</tbody>
</table>

### Notes

Intended for projects where impacts of construction vibration on adjacent existing structures is a concern. Survey existing older bridges and monitor vibration/settlement of existing structures located within a few hundred feet of the following construction operations: pile driving, drilled shaft excavations, blasting, vibro-compaction, steel sheet pile installations, well point dewatering systems, etc. Of special concern are old bridge structures on timber piles, existing retaining walls, existing building on shallow foundations, etc.

List in the plans adjacent to structures not covered under 455-1.1 that require surveying and vibration monitoring, or structures that require special attention during construction.

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

### Related Items

#### Forms

- **Design**: SHTabQuantLS
- **Construction**: COMP 700-050-05

#### Documentation

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

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

### References

- **PPM Chapter**: 7.1.6, 9.2.4
- **Other**: Soils and Foundations Handbook
- **Prep & Doc Manual Chapter(s)**: 7, 13

### TRNS*PORT Category (DRAFT FIELD)

- **100 or 200 Structures or Roadway**

### Status

- **Struct.**: 455-18-
- **PROTECTION OF EXISTING STRUCTURES**: LS/LS

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<tbody>
<tr>
<td>0455 18</td>
<td>PROTECTION OF EXISTING STRUCTURES</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$16,311.10</td>
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</table>

### 455-34-AA PRESTRESSED CONCRETE PILING

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: no

**Notes**  
Effective January 2009- refer to specification changes for dynamic load tests.

**Details**  
For projects let January 2009 and later: Intended to cover cost and installation of the square prestressed concrete piling. Design quantity computed as the total anticipated length of pile WITHOUT ALLOWANCES for cutoffs, splices, dynamic load tests, or preforming. Construction Final Quantity will be adjusted based on allowances, per the specifications.

Related item 455-143, except for fender system piling, & piling for soldier pile walls.

For projects let through December 2008: Intended to cover cost and installation of the square prestressed concrete piling. Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming. Related items 455-143 & 455-137, except for fender system piling, & piling for soldier pile walls.

**Related Items**

**Forms**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-08

**Documentation**

- **Design**: Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.
- **Construction**: Final tabulation of quantities must be recorded on proper form in computation book by location.

**References**

- **PPM Chapter**: SDG’s 3.5  
- **Other**: Index 20600 thru 20631.

**Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

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

**Struct.**: 455-34-AA PRESTRESSED CONCRETE PILING  
**LF**

A =
1 (12" Sq.)  
2 (14" Sq.)  
3 (18" Sq.)  
4 (20" Sq.)  
5 (24" Sq.)  
6 (30" Sq.)  
7 (36" Sq.)  
8 (Special)

**Notes**
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0455 34 1</td>
<td>PRESTRESSED CONCRETE PILING, 12&quot; SQ.</td>
<td>LF</td>
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<td>0455 34 3</td>
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<td>CONCRETE PILING PRESTRESSED, SPECIAL</td>
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</table>

### 455- 35- AA  PILING, STEEL

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**

Intended to cover cost and installation of the steel “H” or pipe piling. Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming.

**Related Items**

**Forms**

**Required**
- Design: SHTabQuant  
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-08  
- Construction: Final tabulation of quantities must be recorded on proper form in computation book by location.

**Documentation**

**Design**: Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

**Construction**: Final tabulation of quantities must be recorded on proper form in computation book by location.

**References**

- PPM Chapter: SDG’s 3.5
- Other:  

**Prep & Doc Manual Chapter(s)**: 7, 13

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

**Struct.** 455- 35- AA  PILING, STEEL  LF

AA =
1 (Hp 8 X 36)  
2 (Hp 10 X 36)  
3 (Hp 10 X 42)  
4 (Hp 12 X 53)  
5 (Hp 14 X 73)  
6 (Hp 14 X 89)  
7 (Hp 14 X 102)  
8 (Hp 14 X 117)  
9 (Special)
## Basis of Estimates

### 20 (18" Dia Pipe)

21 (20" Dia. Pipe)

22 (24" Dia. Pipe)

23 (30" Dia. Pipe)

### Notes

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

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>1/1/2007</td>
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<td>$395.57</td>
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### 455- 36- A CONCRETE CYLINDER PILES- FURNISHED & DRIVEN

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

### Notes

Intended to cover cost and installation of the concrete cylinder piling.

Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming.

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

### Related Items

**Forms**
- **Required** Design: SHTabQuant  
- **Recommended** Construction: COMP 700-050-08

**Documentation**
- **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**  
- **Other** SDG’s 3.5  
- **Standards** Index 20654, 20660.
- **Specifications** Plan Detail and/or Tech Spec Required

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

### TRNS*PORT Category (DRAFT FIELD):

0100 Structures

### Status

**Struct.** 455- 36- A CONCRETE CYLINDER PILES- FURNISHED & DRIVEN LF

A =
1 (54” Dia.)
2 (60” Dia.)

Notes

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

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILE, 16” D</td>
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</table>

455- 39-  A MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL

Notes

Details

Intended for strengthening existing bridges or used on new structures that have restricted overhead room. Payment is per each; length is determined by the contractor's specialty engineer. Minimum tip elevation and minimum casing lengths shall be shown in the plans. Use requires State Structures Design Office approval.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td>Soils and Foundations Handbook 8.2.5</td>
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<td></td>
<td>Other</td>
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<table>
<thead>
<tr>
<th>Standards Specifications</th>
</tr>
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<tr>
<th>Plan Detail and/or Tech Spec Required</th>
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**Prep & Doc Manual Chapter(s)**

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

**Status**

<table>
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<tr>
<th>Struct.</th>
<th>455- 39- A MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL</th>
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<tbody>
<tr>
<td></td>
<td>A= Nominal Pile Diameter</td>
</tr>
<tr>
<td></td>
<td>blank (unspecified)</td>
</tr>
<tr>
<td></td>
<td>1 (10&quot; Diameter)</td>
</tr>
<tr>
<td></td>
<td>2 (12&quot; Diameter)</td>
</tr>
<tr>
<td></td>
<td>3 (14&quot; Diameter)</td>
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**Notes**

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

<table>
<thead>
<tr>
<th>455- 76- WRAP PILE CLUSTERS</th>
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</thead>
<tbody>
<tr>
<td>Unit</td>
</tr>
</tbody>
</table>

**Details**

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
</table>

| Repair/Rehab Projects only. |
| Intended on fender repair projects. |
| Show locations in plans w/ quantity block. |

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
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<thead>
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<th>Item</th>
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<tbody>
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<td>WRAP PILE CLUSTERS</td>
<td>EA</td>
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<td>$540.89</td>
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</tbody>
</table>

**455-81-ABB CATHODIC PROTECTION**

**Unit** EA  
**Accuracy** Each  
**Plan Quantity?** no

**Notes**

Intended for Pile or Pier installation of Zinc or Titanium anode, installed as routine maintenance on H-piles and steel sheet piles used for seawalls. Show locations in plans with quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work paid under item 400-60-A.

DO NOT USE this item with 400-142 (Cathodic Protection for mass concrete or structural components) or 457 items (integral pile jackets).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CATHODIC PROTECTION, F&amp;I, PILE, ZINC ANODE ASSEMBLY PROTECTION</td>
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<td>CATHODIC PROTECTION, F&amp;I, PILE, TITANIUM ANODE PROTECTION</td>
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</table>

**455- 87- STEEL ANCHOR BAR**

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Intended for wall anchor tiebacks to connect wall to dead men, or anchor piles. Not for prestressed soil anchor applications. Show locations in plans w/ quantity block. Design for sacrificial thickness and coat with coal tar epoxy, if required

**Related Items**

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-03
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

---

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

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

---

**Details and Structure: Items 400 to 499**
### Notes

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

<table>
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<th>Item</th>
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<td>ANCHOR BAR, STEEL</td>
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<tbody>
<tr>
<td>455- 88- AA</td>
<td>DRILLED SHAFT</td>
<td></td>
<td></td>
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</tbody>
</table>

#### Details

Intended to pay for the cost of concrete and steel, temporary casing, all labor, materials, equipment and incidentals necessary to complete the drilled shaft. Length is measured from top-of-shaft elevation to the design tip elevation shown in the plans. Pay Item 455-122-XAA is required with this item. Pay Item 455-122 covers the cost of the shaft excavation. Clearly specify in plans CSL testing requirements as required. Cost of Shaft Inspection Device included in cost of drilled shaft, 455- 88-XAA. CSL tubes included under 455- 88-XAA. CSL testing paid for under Item 455-142.

#### Related Items

- **Required**: 455-122 (2455-122)
- **Recommended**: 455-142 when CSL testing is required

#### Forms

- **Design**: SHTabQuant
- **Construction**: COMP 700-050-03

#### Documentation

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**: SDG's 3.6
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

### Standards

### Specifications

### Prep & Doc Manual Chapter(s)

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

### Status

**Struct.** 455- 88- AA DRILLED SHAFT LF

- AA =
  1 (24" Dia.)
  2 (30" Dia.)
  3 (36" Dia.)
  4 (42" Dia.)
  5 (48" Dia.)
  6 (60" Dia.)
  7 (72" Dia.)
  8 (54" Dia.)
  9 (66" Dia.)
  19 (90" Dia.)
  20 (108" Dia.)
  21 (96" Dia.)

### Notes

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**Details and Structure: Items 400 to 499**

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

<table>
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<tr>
<th>Item</th>
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### 455-89-AA DRILLED SHAFT TIP GROUTING

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: no

**Notes**

Intended for the post grouting of drilled shaft tips after installation. The item includes all materials, hardware, and labor to perform the work.

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

**Related Items**

**Required**: 455-122 (2455-122), 455-88-AA (2455-88-AA)  
**Recommended**: 

**Forms**

**Design**: SHTabQuant  
**Construction**: Refer to Comp Book

**Documentation**

**Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**: SDG’s 3.6

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

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

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

**Struct.** 455-89-AA DRILLED SHAFT TIP GROUTING EA

AA =  
1 (24" Dia.)  
2 (30" Dia.)  
3 (36" Dia.)  
4 (42" Dia.)  
5 (48" Dia.)  
6 (60" Dia.)  
7 (72" Dia.)  
8 (54" Dia.)  
9 (66" Dia.)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-101- A LOAD TEST- OSTERBERG

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

**Notes**

Intended to load test drilled shafts using Osterberg Cells. Show location and test load of o-cells test shafts. Show number and depth of o-cells for each test shaft.

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

**Related Items**

- **Required**: 455-129-XXA
- **Recommended**: 455-131- and 455-132- required for test located on water.

**Forms**

- **Design**: SHTabQuant  **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: Soils and Foundations Handbook 10.3.3
- **PPM Chapter**: Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

- PPM Chapter

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

**Notes**

**A =**

1 (Less Than 5 Cells)
2 (5 Or More Cells)

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

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455101 1</td>
<td>TEST LOAD, OSTERBERG CELL, LESS THAN FIVE CELLS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$200,000.00</td>
</tr>
</tbody>
</table>

455-103-ABB LOAD TEST- STATNAMIC

**Unit**: EA  **Accuracy**: Each  **PlanQuantity?**: no
Intended for Statnamic load testing of piles or drilled shafts. Show location and test load of test shafts or piles.

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

**Related Items**

- **Required**: 455-129- A
- **Recommended**: 455-131- and 455-132-

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**: Soils and Foundations Handbook 10.3.1

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

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

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

- 0100 Structures

**Struct.**

- **455-103-ABB**
  - LOAD TEST- STATNAMIC
  - EA

  A = Type
  - 1 (Compression)
  - 2 (Lateral)
  
  BB = Test Capacity
  - 01 (100 Tons)
  - 02 (200 Tons)
  - 03 (300 Tons)
  - 04 (400 Tons)
  - 05 (500 Tons)
  - 06 (600 Tons)
  - 07 (700 Tons)
  - 08 (800 Tons)
  - 09 (900 Tons)
  - 10 (1000 Tons)
  - 11 (1100 Tons)
  - 12 (1200 Tons)
  - 13 (1300 Tons)
  - 14 (1400 Tons)
  - 15 (1500 Tons)
  - 16 (1600 Tons)
  - 30 (3000 Tons)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
0455103110 LOAD TEST - STATNAMIC, COMPRESSION, 1000TN

**Item Description**

**Unit**

**Valid Date**

**obsolete Date**

**LRE Ref Price**

---

**455-107- AA DRILLED SHAFT CASING**

**Unit** LF; M1

**Accuracy** Linear Foot; 10th of a Meter

**PlanQuantity?** no

**Notes**

Intended on drilled shaft projects when plans require permanent casing method be used. Permanent casing is typically not paid for separately for portions of shaft in waterway unless permanent casing method is required for shaft below the mud line. Show locations and depths in drilled shaft data table.

---

**Required** 455-122- AA, 455-88- AA  **Recommended**

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

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

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

**References**

**PPM Chapter**

**Other** SDG’s 3.6

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

---

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

---

**Struct.** 455-107- AA **DRILLED SHAFT CASING** LF

AA =
1 (24" Dia.)
2 (30" Dia.)
3 (36" Dia.)
4 (42" Dia.)
5 (48" Dia.)
6 (60" Dia.)
7 (72" Dia.)
8 (54" Dia.)
9 (66" Dia.)
18 (84" Dia.)
19 (90" Dia.)
20 (108" Dia.)
21 (96" Dia.)

---

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455107 3</td>
<td>DRILLED SHAFT CASING, 36&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$192.02</td>
</tr>
<tr>
<td>0455107 4</td>
<td>DRILLED SHAFT CASING, 42&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$130.00</td>
</tr>
<tr>
<td>0455107 5</td>
<td>DRILLED SHAFT CASING, 48&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$146.67</td>
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<tr>
<td>0455107 6</td>
<td>DRILLED SHAFT CASING, 60&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<tr>
<td>0455107 7</td>
<td>DRILLED SHAFT CASING, 72&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$660.00</td>
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<tr>
<td>0455107 21</td>
<td>DRILLED SHAFT CASING, 96&quot; DIAMETER</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
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</tr>
</tbody>
</table>

---

### 455-111- CORE/PILOT HOLE - DRILLED SHAFT EXCAVATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

- Intended for payment of pilot holes or cores for drilled shaft projects to determine the quality of the material below the tip.
- Pilot holes are taken at shaft locations prior to shaft excavation.
- Cores are taken below the tip of an excavated shaft.
- Pilot holes or cores when deemed necessary, are typically taken 3 to 5 shaft diameters below the shaft's planned tip elevation. Use 3 shaft diameters unless otherwise noted in the plans.
- Show location in the plans. Clarify whether pilot holes or cores are to be taken. Base quantity on the anticipated pilot hole and/or core length needed. Include pay item note.

Establish quantities as follows:

- **Cores**: measured from the bottom of shaft elevation to the bottom of the core (3 to 5 shaft diameters below tip);
- **Pilot holes**: measured from the ground elevation to the bottom elevation of the pilot hole (3 to 5 shaft diameters below tip).

**Related Items**

- **Required**: 455-88- AA, 455-122- AA
- **Recommended**: COMP 700-050-03

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **PPM Chapter(s)**: 6, 7, 13

---

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

**Status**

- **Struct.**: 455-111- CORE/PILOT HOLE - DRILLED SHAFT EXCAVATION
- **Unit**: LF

**Notes**

---

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455111</td>
<td>CORE: PILOT HOLE, DRILLED SHAFT EXCAVATION</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$27.29</td>
</tr>
</tbody>
</table>

**455-112- A  PILE- AUGER GROUTED**

**Notes**

**Details**

Intended for payment of auger cast piles to support miscellaneous structures. Do not use with Pay Item 534-72-1AA. Cost of sound barrier foundations included in the cost of sound barrier wall. Not for use to support bridge structures.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Forms**

Refer to Comp Book

**Documentation**

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

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

**References**

PPM Chapter

Soils and Foundations Manual 8.2.4, SDG’s 3.1

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

**Status**

Struct. 455-112- A  PILE- AUGER GROUTED  LF

A =
1 (16" Diameter)  
2 (14" Diameter)  
3 (24" Diameter)  
4 (30" Diameter)

**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0455112 3</td>
<td>PILE AUGER GROUTED, 24&quot; DIA</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$40.00</td>
</tr>
</tbody>
</table>

**455-119-ABB  LOAD TEST- STATIC**

**Notes**

**Details**

Intended for static axial or lateral load testing of piles or drilled shafts. Not used for Osterberg-Cell or Statnamic tests. Show location and test load in plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>455-129- A</td>
<td>455-131- and 455-132- required for test located on water</td>
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</table>

Details and Structure: Items 400 to 499
### 455-119-ABB LOAD TEST-STATIC EA

<table>
<thead>
<tr>
<th>A</th>
<th>Type Load</th>
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<tbody>
<tr>
<td>1</td>
<td>(Compression)</td>
</tr>
<tr>
<td>2</td>
<td>(Tension)</td>
</tr>
<tr>
<td>3</td>
<td>(Lateral)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BB</th>
<th>Amount Of Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>(0 - 50 Tons)</td>
</tr>
<tr>
<td>02</td>
<td>(51 - 100 Tons)</td>
</tr>
<tr>
<td>03</td>
<td>(101 - 600 Tons)</td>
</tr>
<tr>
<td>04</td>
<td>(601 - 1200 Tons)</td>
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<tr>
<td>05</td>
<td>(1201-1800 Tons)</td>
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**Notes**

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

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td>0455119103</td>
<td>LOAD TEST-STATIC, COMPRESSION, 101-600 TONS</td>
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<tr>
<td>0455119201</td>
<td>LOAD TEST-STATIC, TENSION, 0-50 TONS</td>
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<td>0455119301</td>
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**455-120- A PILE POINT PROTECTION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
</tr>
</thead>
</table>

**Notes**

Intended for steel "H" or pipe piling and steel sheet piling projects when borings show soils that may be difficult to penetrate. Show locations in plans w/ quantity block

**Related Items**

| Required | 455- 35, 455-133 |

**Forms**

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
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<tr>
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<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

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Details and Structure: Items 400 to 499
Standards
Specifications

Struct. 455-120- A PILE POINT PROTECTION EA

A =
1 (HP 14" X 89"
2 (20" Sq.)
3 (24" Sq.)
4 (HP 14 X 117"
5 (HP 14" X 73"

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0455120 1</td>
<td>PILE POINT PROTECTION, HP 14&quot; X 89&quot;</td>
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<td>EA</td>
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<td>1/1/2007</td>
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<tr>
<td>0455120 4</td>
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<td>1/1/2007</td>
<td>1/1/2007</td>
<td></td>
<td>$450.00</td>
</tr>
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</table>

455-122- AA UNCLASSIFIED SHAFT EXCAVATION

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes

Details

Intended for the excavation of the drilled shafts. Pay Item 455-88-XAA is required with this item. Quantity is the depth of excavated hole from ground elevation to tip of shaft.

Related Items

Required 455-88- AA Recommended

Forms

Design SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation

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

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

References

PPM Chapter Other SDG’s 3.6

Standards Specifications

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

TRNS*PORT Category (DRAFT FIELD): 0100 Structures
Struct. 455-122- AA UNCLASSIFIED SHAFT EXCAVATION LF

AA =
1 (24" Diameter.)
2 (30" Diameter.)
3 (36" Diameter.)
4 (42" Diameter.)
5 (48" Diameter.)
6 (60" Diameter.)
7 (72" Diameter.)
8 (54" Diameter.)
9 (66" Diameter.)
19 (90" Diameter.)
20 (108" Diameter.)
21 (96" Diameter.)

Notes

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455122 3</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 36&quot; DIA</td>
<td>LF</td>
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<tr>
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<td>EXCAVATION UNCLASSIFIED SHAFT, 42&quot; DIA</td>
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<td>0455122 6</td>
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<td>LF</td>
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<td>1/1/2007</td>
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<tr>
<td>0455122 21</td>
<td>EXCAVATION UNCLASSIFIED SHAFT, 96&quot; DIA</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$250.00</td>
</tr>
</tbody>
</table>

455-129- A INSTRUMENTATION AND DATA COLLECTION

Unit LS/LS Accuracy Lump Sum PlanQuantity? yes

Notes

Details

Intended for use with all static, statnamic and Osterberg Cell load tests.

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

Related Items

Required 455-101, 455-103, or 455-119

Recommended

Forms Design SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation Design

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

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for
Specification tolerances.

**References**

<table>
<thead>
<tr>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPM Chapter</td>
<td>Other</td>
</tr>
</tbody>
</table>

Soils and Foundations Handbook 10.3

**Notes**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 455-129- A INSTRUMENTATION AND DATA COLLECTION LS/LS

A =
1 (Pile Foundation)
2 (Drilled Shaft Foundation)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455129</td>
<td>INSTRUMENTATION &amp; DATA COLLECT, DRILL SHAFT FOUND</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$20,000.00</td>
</tr>
</tbody>
</table>

455-131- PLATFORM, WORKING SERVICE

**Notes**

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

Intended for access platform at pile/shaft test site. Use with all static, statnamic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

Required 455-101, 455-103, or 455-119

Recommended

**Forms**

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
|        | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

| Construction | |

**References**

| PPM Chapter | Other |

| Standards | Specifications |

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

---

**Details and Structure:** Items 400 to 499
455-132- PLATFORM, REMOTE OBSERVATION

Unit: EA  
Accuracy: Each  
PlanQuantity?: no

Details:  
Intended for survey platform at test pile/shaft. Use with all static, staticamic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items:  
Required: 455-101, 455-103, or 455-119  
Recommended: 

Forms:  
Design: SHTabQuant  
Construction: Refer to Comp Book

Documentation:  
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References:  
PPM Chapter  
Other  
Standards  
Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

455-133- SHEET PILING, STEEL

Unit: SF; M2  
Accuracy: Square Foot; 10th of a Square Meter  
PlanQuantity?: yes

Details:  
PERMANENT: Complete designs and details must be provided in the plans including the Steel sheeting section, begin and end stations, top and bottom pile elevations.
TEMPORARY: This item should be utilized for temporary sheet pile installations that are installed at "critical locations." Critical walls" are walls necessary to maintain the safety of the traveling public or structural integrity of nearby structures, roadways and utilities during construction.

For temporary critical walls requiring soil anchors, dead men etc., provide full details in plans (design of wale, soil anchor spacing and load, dead men anchor, number of proof test and creep test required, etc.).

Complete design and details must be provided in the plans including the section modulus, begin and end stations, top and bottom pile elevations. See 455-12.6.2 for additional information.

TRNS*PORT Category: When walls are used for construction of a structure and shown in the structures plans, load the item in the corresponding structures category. When walls are used for other applications (roadway or utilities), load the item in the corresponding category.

MEASUREMENT: The area to be paid for will be measured from top of pile elevation to bottom of pile elevation and longitudinally from beginning to end of wall, as shown in the plans.

PAYMENT: PLAN QUANTITY will be the basis of payment to the contractor. No separate payment will be made for the cost of the anchor system for anchored.

**Related Items**

**Forms**
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-01

**Documentation**
- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**References**
- **PPM Chapter**: 6, 7, 13
- **SDG’s 3.5**
- **Other**: 455-137-

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**
- **Struct.** 455-133- A SHEET PILING, STEEL SF

\[ A = \]

- 2 (Temporary- Critical)
- 3 (Furnish & Install Permanent)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455133 2</td>
<td>SHEET PILING STEEL, TEMPORARY-CRITICAL</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$14.66</td>
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<tr>
<td>0455133 3</td>
<td>SHEET PILING STEEL, F&amp;I PERMANENT</td>
<td>SF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$54.84</td>
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**455-137-** LOAD TEST- DYNAMIC

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Details and Structure: Items 400 to 499
Valid through December 2008; refer to specification changes for Section 455.

For Project let January 2009 and later: No separate payment will be made for Dynamic Load Tests. For Test Piles, Dynamic Load tests will be incidental to the Test Piling. For Production piles, Dynamic Load Test will be paid as additional length of piling, according to Section 455 of the specifications.

For projects let through December 2008: Intended on driven piling projects for PDA testing. Quantity given should be equal to the number of test piles called out on the Foundations Layout Sheet.

Related Items
- **Required**: 455-143-XAA, 455-144-XAA, 455-145-XXA
- **Recommended**: SHTabQuant

Forms
- **Design**: Refer to Comp Book
- **Construction**: COMP 700-050-03

Documentation
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
- **PPM Chapter**: 6, 7, 13
- **Other**: Soils and Foundation Handbook 10.1, 10.2

Prep & Doc Manual Chapter(s): 6, 7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455137</td>
<td>TEST LOAD- DYNAMIC</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$2,196.43</td>
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455-142- CROSSHOLE SONIC LOGGING

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Intended for integrity testing of drilled shafts. CSL tubes are required to be placed in all drilled shafts, but only a portion of shafts will actually be tested. Determine number of shafts to be CSL tested; identify shafts in the plans.

This pay item should NOT be included for projects containing only miscellaneous structures with drilled shafts smaller than 60 inches in diameter.

If the Engineer suspects defects in a drilled shaft installation, additional CSL testing may be required If the installation is found to be defective, no additional payment will be made for testing or required corrections. If the installation is found to meet specifications, then payment for CSL testing will be made as unforeseeable work.

Related Items
- **Required**: 455-88, 455-122-XAA
- **Recommended**: SHTabQuant

Forms
- **Design**: Refer to Comp Book
- **Construction**: COMP 700-050-03

Documentation
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities.
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Soils and Foundation Handbook 10.4.2, 10.4.3

**Specifications**
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

**Status**
Struct. 455-142- CROSSHOLE SONIC LOGGING EA

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0455142</td>
<td>CROSSHOLE SONIC LOGGING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$2,242.60</td>
</tr>
</tbody>
</table>

**455-143- AA TEST PILES- PRESTRESSED CONCRETE**

| Unit   | LF; M1                      | Accuracy    | Linear Foot; 10th of a Meter | PlanQuantity? | no |

**Notes**
For Projects let January 2009 and later: Intended to cover cost and installation of the prestressed concrete test piling. Includes the payment for dynamic load test on test piles. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For projects let through December 2008: Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Intended to cover cost and installation of the prestressed concrete piling. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
Required 455-137, 455-34
Recommended

**Forms**
Design SHTabQuant COMP 700-050-03

**Documentation**
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Soils and Foundation Handbook 10.1, 10.2
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100  Structures

Struct. 455-143- AA  TEST PILES- PRESTRESSED CONCRETE  LF

AA =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Dia)
8 (Special)*

Notes  * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0455143 1</td>
<td>TEST PILES-PRESTRESSED CONCRETE,12&quot; SQ</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>0455143 3</td>
<td>TEST PILES-PRESTRESSED CONCRETE,18&quot; SQ</td>
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<td>0455143 4</td>
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<tr>
<td>0455143 5</td>
<td>TEST PILES-PRESTRESSED CONCRETE,24&quot; SQ</td>
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<tr>
<td>0455143 6</td>
<td>TEST PILES-PRESTRESSED CONCRETE,30&quot; SQ</td>
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<td>$595.00</td>
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</table>

455-144- AA  TEST PILES- STEEL

Unit LF; M1  Accuracy Linear Foot; 10th of a Meter  Plan Quantity?  no

Notes  Details

Intended to cover cost and installation of the steel test piling. PDA paid for separately under item 455-137.

Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles]

Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Required**: 455-137, 455-34
- **Recommended**: 

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Notes**
*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0100  Structures

**Status**
- **Struct.**: 455-144- AA

**Specifications**
- **Struct.**: TEST PILES- STEEL

AA =
1  (Hp 8 X 36)
2  (Hp 10 X 36)
3  (Hp 10 X 42)
4  (Hp 12 X 53)
5  (Hp 14 X 73)
6  (Hp 14 X 89)
7  (Hp 14 X 102)
8  (Hp 14 X 117)
9  (Special)*
20 (18" Dia Pipe)
21 (20" Dia Pipe)
22 (24" Dia Pipe)
23 (30" Dia Pipe)

**Notes**: * Special may require Tech Spec and/or Plan Detail

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
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<td>0455144 9</td>
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<td>1/1/2007</td>
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<td>$366.25</td>
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<td>0455144 21</td>
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<tr>
<td>0455144 22</td>
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<td>1/1/2007</td>
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<td>0455144 23</td>
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<td>1/1/2007</td>
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<td>$519.35</td>
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**455-145- A**  TEST PILE- CONCRETE CYLINDER PILES

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Details and Structure: Items 400 to 499
Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles] Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>455-137, 455-34</td>
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</table>

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other Standards</th>
<th>Soils and Foundation Handbook 10.1, 10.2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
</tr>
</tbody>
</table>

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct. 455-145- A**

TEST PILE- CONCRETE CYLINDER PILES LF

A =
1 (54" Dia.)
2 (60" Dia.)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**455-146- EMBEDDED DATA COLLECTOR**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Effective January 2007. Implemented by mandatory specification change and Structures Temporary Design Bulletin

to be used with all Prestressed concrete test piles. Estimate a quantity of 1 per test pile. Each collector system will include gauges at the top and tip, as well as antenna and incidental equipment for installation in each pile, as shown in the standard.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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**Forms**

<table>
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<tr>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

<table>
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<tr>
<th>Design</th>
<th>Construction</th>
<th>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</th>
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### Standards

**455-146-** EMBEDDED DATA COLLECTOR

#### Notes

- **TRNS*PORT Category (DRAFT FIELD):** 0100 Structures
- **Status:**

  - **Struct.:** 455-146-
  - **EMBEDDED DATA COLLECTOR**
  - **EA**

#### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>Obsolete Date</th>
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<td>1/1/2007</td>
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<td>$2,328.89</td>
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#### Details

**457- 1- AB STANDARD INTEGRAL PILE JACKET**

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
<td>New Item effective 1-1-2009; replaces 457-70 items</td>
</tr>
</tbody>
</table>

- Intended for rehabilitation projects to repair concrete pile damage or to protect sheet piles.
- Project details (plans or specs) must include jacket lengths. Grout material(s) should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.
- Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

- **Required**
  - **Design**
    - SHTabQuant
  - **Construction**
    - Refer to Comp Book

- **Recommended**
  - **Design**
    - COMP 700-050-03
  - **Construction**
    - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
    - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

- Plan Detail and/or Tech Spec Required

- **Prep & Doc Manual Chapter(s):** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Details and Structure:** Items 400 to 499
Struct.  457- 1- AB  STANDARD INTEGRAL PILE JACKET  LF

A = Type
1 (non-structural)
2 (Structural)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

457- 2- AB  CATHODIC PROTECTION INTEGRAL PILE JACKET

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

New Item effective 1-1-2009; replaces 457-71 items

Details

Intended for rehabilitation projects to repair concrete pile corrosion damage. Project details (plans or specs) must include jacket lengths, anode type and configuration, as well as connection methods and materials for cathodic protection. Grout material(s) should be specified in the plans or specifications.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work will be paid under 400-60, when required for impressed current jackets. For galvanic jackets, include a note in the plans or specifications indicating that electrical work is incidental to the cost of the integral Cathodic protection pile jacket.

See items 400-142 (structure) and 455-81 (pier or pile) for other Cathodic Protection work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required

400- 60-

Recommended

SHTabQuant

COMP 700-050-03

Related Items

Forms

Design

SHTabQuant

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  6, 7, 13
Struct. 457-2-AB CATHODIC PROTECTION INTEGRAL PILE JACKET LF

A = Type
1 (non-structural)
2 (Structural)

B = Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0457 2 12</td>
<td>CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1-30.”</td>
<td>LF</td>
<td>T</td>
<td>1/1/2009</td>
<td></td>
<td>$1.00</td>
</tr>
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</table>

457-70-ABB INTEGRAL PILE JACKET

Unit: LF; M1
Accuracy: Linear Foot; 10th of a Meter

Notes

Valid through 12-31-2008; replaced by 457-1 and 457-2 items

Details

Intended for rehabilitation projects to repair concrete pile corrosion damage or to protect steel piles. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Grout material(s) and jacket lengths should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
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<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
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</tbody>
</table>

Documentation

| Design | Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13
### Basis of Estimates

**2009 Edition**  
**October 6, 2008**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct. 457-70-ABB**  
**INTEGRAL PILE JACKET**  
**LF**

A =  
2 (Portland Cement Grout Filler)  
3 (Class III Concrete Seal Filler)  
4 (Others)

BB =  
01 (12")  
02 (14")  
03 (15")  
04 (16")  
05 (18")  
06 (20")  
07 (21")  
08 (22")  
09 (24")  
10 (27")  
11 (30")

**Notes**  
A=1 blocked 4-8-08

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
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<td>INTEGRAL PILE JACKET, PORT CEMENT GROUT FILLER, 18&quot;</td>
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<td>0457 70309</td>
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<td>INTEGRAL PILE JACKET, OTHER, 12&quot;</td>
<td>LF</td>
<td>T</td>
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**457-71-AB**  
**CATHODIC PROTECTION- INTEGRAL PILE JACKET**

**Unit**  
LF; M1

**Accuracy**  
Linear Foot; 10th of a Meter

**PlanQuantity?**  
no

**Notes**  
Valid through 12-31-2008; replaced by 457-2 items

**Details**  
Coordinate with the State Materials Office, Corrosion Lab for assistance in use of this item.  
Intended for rehabilitation projects to repair piles with corrosion damage using cathodic protection. Show locations and jacket lengths in plans w/ quantity block.  
Electrical Work paid under item 400-60-A.  
See items 400-142 (structure) and 455-81 (pier or pile) for related work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**  
400-60-

**Recommended**  
Design  
SHTabQuant  
COMP 700-050-03

---

**Details and Structure:** Items 400 to 499  
Page 120 of 146
**Topic No. 600-000-002**

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

### Standards

**Specifications**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>457-71-AB</th>
<th>CATHODIC PROTECTION- INTEGRAL PILE JACKET</th>
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<tr>
<td></td>
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<td></td>
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</tr>
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<td></td>
<td>3 (Impressed Current Cathodic Protection Non-Structural)</td>
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<td></td>
<td>4 (Impressed Current Cathodic Protection Structural)</td>
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<td>5 (Other)</td>
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<tr>
<td></td>
<td>B= Pile Size</td>
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<td>3 (30.1 and larger)</td>
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0457 71 12</td>
<td>CATHODIC PROTECTION- INTEGRAL PILE JACKET, GALVANIC, NON-STRUCTURAL, 16.1 - 30&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>0457 71 22</td>
<td>CATHODIC PROTECTION- INTEGRAL PILE PROTECTION, GALVANIC, STRUCTURAL, 16.1 - 30&quot;</td>
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<td>0457 71 33</td>
<td>CATHODIC PROTECTION-PILE JACKET, IMPRESSED CURRENT, NON-STRUCTURAL, 30.1&quot; AND LARGER</td>
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### TRNS*PORT Category (DRAFT FIELD)

<table>
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<th>0100 Structures</th>
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**Status**

**Struct.** 457-71-AB  CATHODIC PROTECTION- INTEGRAL PILE JACKET  LF

**Notes**

**Details**

Refer to Design Standards and Specifications for selection and use of these joints. Note: Tech Specs are required for selected items, as shown in the pay item structure. For Bridge Approach Expansion Joints, refer to 370 items. For Concrete Joint repairs in Structures, refer to 400 items.

**Related Items**

**Forms**

**Required**

**Recommended**

**Notes**

**Effective January 2007. Replaces several joint seal items**

**Details**

Refer to Design Standards and Specifications for selection and use of these joints. Note: Tech Specs are required for selected items, as shown in the pay item structure. For Bridge Approach Expansion Joints, refer to 370 items. For Concrete Joint repairs in Structures, refer to 400 items.

**Related Items**

**Forms**

**Required**

**Recommended**

Details and Structure: Items 400 to 499
Topic No. 600-000-002
Basis of Estimates

2009 Edition
October 6, 2008

Standards
Index No. 21110, 21100

Specifications

---

**Construction**
Refer to Comp Book

**Design**

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Index No. 21110, 21100

Specifications

Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 458-1-AB

**BRIDGE DECK EXPANSION JOINT**

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</tr>
<tr>
<td>2 (Rehabilitation- Clean, Seal, Replace)</td>
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</tr>
<tr>
<td>B= Type</td>
<td></td>
</tr>
<tr>
<td>1 (Poured Joint with Backer Rod)</td>
<td></td>
</tr>
<tr>
<td>2 (Strip Seal)</td>
<td></td>
</tr>
<tr>
<td>3 (Modular) Note: Tech Spec Required</td>
<td></td>
</tr>
<tr>
<td>4 (Finger Joint) Note: Tech Spec Required</td>
<td></td>
</tr>
<tr>
<td>5 (Compression Elastomeric) Note: For Rehab only</td>
<td></td>
</tr>
<tr>
<td>6 (Other)</td>
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**Notes**

---

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<table>
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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0458 1 11</td>
<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I Poured Joint with Backer Rod</td>
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<td>BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&amp;I Strip Seal</td>
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<td>0458 1 22</td>
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Details and Structure: Items 400 to 499

Page 122 of 146
0458 1 25  |  BRIDGE DECK EXPANSION JOINT, REHABILITATION, COMPRESSION ELASTOMERIC  |  LF  |  T  |  1/1/2007  |  $115.25

0458 1 26  |  BRIDGE DECK EXPANSION JOINT, REHABILITATION, OTHER  |  LF  |  T  |  1/1/2007  |  $107.50

459-71-  |  PILES, POLYETHYLENE SHEETING

| Unit | SY; M2 | Accuracy | Square Yard; Square Meter | PlanQuantity? | no |

Notes

Details

Intended on piling or drilled shaft projects to wrap portion of end bent pile or shaft within the fill height to reduce down-drag. Add note on Foundation Layout Sheet. Pay quantity is the pile area wrapped.

Related Items

Required

Recommended

Specifications

PPM Chapter

Soils and Foundations Handbook 8.3.3

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 459-71- PILES, POLYETHYLENE SHEETING SY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<td>0459 71</td>
<td>PILES, POLYETHYLENE SHEETING</td>
<td>SY</td>
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</table>

460-1-A  |  STRUCTURAL STEEL - REHAB

| Unit | LB; KG | Accuracy | Pound; Kilogram | PlanQuantity? | yes |

Notes

Details

Do not use for new steel structures. This item will be used on all rehabilitation work only. Show steel quantities in quantity blocks on plans. Pay for painting of structural steel separately. Conduct lead based paint survey. Add general note to alert Contractor of existing lead based paint.

Related Items

Required

Recommended

560- 1

Forms

Design

SHTabQuant

COMP 700-050-06

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN
QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.** 460-1- AA  STRUCTURAL STEEL- REHAB  LB

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
4 (Expansion Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
7 (Approach Spans)
11 (Screws, Bolts And Washer Assemblies)
12 (Flanking Spans)
13 (Bolts, Nuts, Washers And Plates)
15 (Miscellaneous)
16 (Movable Span)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 460-2- AA  STRUCTURAL STEEL- NEW/WIDENING

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<td>Pound; Kilogram</td>
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### Notes

Details and Structure: Items 400 to 499
Intended for new construction of steel structures and bridge widenings. When painting is specified, cost of painting is incidental to this item.

WEATHERING item used when uncoated weathering steel is specified.

CARBON item used for Grades 36 and higher including weathering steel when painted.

LOW ALLOY item used for Grade 50 steel.

BASCULE LEAVES item used for all grades of steel in bascule leaf except steel used for decking, and steel counterweight blocks. When flanking span remains within the limits of bascule pier, pay under BASCULE PIERS. If not, include under CARBON or LOW ALLOY. Cost of F-shaped or vertical shape steel traffic railing barrier located within limits of bascule leaf included in steel quantity under BASCULE PIERS. Leaf Centering Device Assembly included in steel quantity under BASCULE LEAVES.

BASCULE PIERS item used for all grades of steel in bascule pier except for steel for decking. Cost of F-shaped or vertical shape steel traffic railing barrier located within limits of bascule pier included in steel quantity under BASCULE PIERS.

Calculate weight of steel for estimating purposes only. Due not tabulate steel quantities in the plans. On steel box girder projects add note to include cost of all access hatches, and screen doors in cost on structural steel.

### Required and Recommended

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuantLS</th>
<th>COMP 700-050-05</th>
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<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.</td>
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<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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### References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

### Status

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct. 460- 2- AA** STRUCTURAL STEEL- NEW/WIDENING LS/LB

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
15 (Miscellaneous)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 460- 6- LADDERS & PLATFORMS

<table>
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<th>Accuracy</th>
<th>Pound; Kilogram</th>
<th>PlanQuantity?</th>
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</tr>
</thead>
</table>

### Notes
Intended for both steel and aluminum ladders and platforms when necessary for personnel/maintenance access. Clearly define location w/ quantity block in plans.

### Related Items
- **Required**
  - Design: SHTabQuant
  - Construction: COMP 700-050-06
- **Recommended**
  - Refer to Comp Book

### Forms
- **Design**
- **Construction**

### Documentation
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
  - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
- **Construction**

### References
- PPM Chapter
- Other Standards
- Specifications
- Prep & Doc Manual Chapter(s) 6, 7, 13

### Status
**Struct.** 460- 6- LADDERS & PLATFORMS LB

---

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0460 6</td>
<td>LADDERS &amp; PLATFORMS</td>
<td>LB</td>
<td>1/1/2007</td>
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<td></td>
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<td>$13.66</td>
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</table>

### 460- 13- A STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

### Notes
Experimental Item. Requires State Structures Design Office Approval / FHWA

### Details
Must be coordinated with State Structures Design Office.
Consists of Furnishing and Installing Sandwich Plate System, including wearing surface, bridge deck, and supporting stringer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 460-13- A

**STRUCTURAL STEEL REHAB- SANDWICH PLATE SY SYSTEM**

A=
1 (Deck and Stringer)
2 (Deck)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**460-70- A ALUMINUM BULLET RAILINGS**

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>yes</td>
</tr>
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</table>

**Notes**

- Details: Consists of furnishing and installing bullet railing on top of traffic railing barriers and parapets to protect pedestrians or bicycles. Note details on Indexes 423, 820, 821, and 822. For other aluminum railings, refer to Index Series 860 and 870, and pay items 515-1-xxa and 515-2-xxa.

**Related Items**

- Required: 521-6- A when Index 820 Ped Bicycle railing is used

**Forms**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
### Standards
Index No. 423, 820, 821, 822

### Specifications

**Struct. 460-70- A ALUMINUM BULLET RAILINGS LF**

\[ A = \]
1. Single Rail
2. Double Rail
3. Triple Rail

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<td>ALUMINUM BULLET RAILINGS, DOUBLE RAIL</td>
<td>LF</td>
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<tr>
<td>0460 70 3</td>
<td>ALUMINUM BULLET RAILINGS, TRIPLE RAIL</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$51.51</td>
</tr>
</tbody>
</table>

**Struct. 460-71- A METAL TRAFFIC RAILING LF**

Consists of furnishing and installing metal traffic barriers, for new construction or Barrier Retrofit. Show location in plans and include in quantity block.

### Notes
- **Detail**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- PPM Chapter
- SDG’s 6.7
- Index 470 through 476

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 100 or 200 Structures or Roadway
A =
1 (Thrie Beam Retrofit)
2 (Steel Post And Rail)*
3 (Steel Post and Rail-Retaining Wall System Maintenance)

Notes
*Non-standard; custom design may be required.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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<tr>
<td>0460 71 1</td>
<td>METAL TRAFFIC RAILING,THRIE BEAM RETROFIT</td>
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460- 81- A  RIVET / HIGH STRENGTH BOLT REPLACEMENT

<table>
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<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes
For Rehabilitation projects only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Forms
Design Required SHTabQuant Recommended COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status
Struct. 460- 81- A RIVET / HIGH STRENGTH BOLT REPLACEMENT EA

A =
Blank (Standard)
1 (Special)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Basis of Estimates

#### Topic No. 600-000-002

**Item Description**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0460 81</td>
<td>RIVETS - HIGH STRENGTH BOLTS, REPLACEMENT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>0460 81 1</td>
<td>RIVETS - HIGH STRENGTH BOLT REPLACEMENT, SPECIAL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$150.00</td>
</tr>
</tbody>
</table>

**460-95- STRUCTURAL STEEL REPAIR**

**Notes**

- **Unit**: LB; KG  
- **Accuracy**: Pound; Kilogram  
- **PlanQuantity?**: yes

**Details**

Intended on rehabilitation projects for in-place heat straightening. Quantity based on weight of steel components to be repaired. Show locations in the plans w/ pay item note to address all work items required.

**Related Items**

- **Required**: 460-1-XAA  
- **Recommended**:  

**Forms**

- **Design**: SHTabQuant  
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**:  
- **Other**:  
- **Standards**:  
- **Specifications**:  

**PPM Chapter**

- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**

- 0100 Structures

**Struct.**

- 460-95- STRUCTURAL STEEL REPAIR

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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<tbody>
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<td>STRUCTURAL STEEL REPAIR</td>
<td>LB</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$225.00</td>
</tr>
</tbody>
</table>

**460-98- PIPE HANGER**

**Notes**

- **Unit**: EA  
- **Accuracy**: Each  
- **PlanQuantity?**: no

**Details**

To be used ONLY for non-drainage system applications such as structure utility attachments. When deck inserts are required for utility attachments by others, do not include this item. Deck inserts are included in the cost of the superstructure concrete. Show location spacing w/ quantity block in plans.

**Note**: Pipe hangers for bridge drainage system paid for under 506-2.

**Related Items**

- **Required**:  
- **Recommended**:  

**Forms**

- **Design**: SHTabQuant  
- **Construction**: COMP 700-050-03

---

**Details and Structure**: Items 400 to 499
**Struct. 460-98- A PIPE HANGER EA**

\[ A = 1 \text{ (Carbon)} \]
\[ A = 2 \text{ (Stainless)} \]

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0460 98 1</td>
<td>PIPE HANGER, CARBON</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
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</tr>
<tr>
<td>0460 98 2</td>
<td>PIPE HANGER, STAINLESS</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$150.00</td>
</tr>
</tbody>
</table>

**460-112- ANCHOR BOLT REPLACEMENT**

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

For rehabilitation jobs only. Show location with quantity block in plans.

**Details**

**Related Items**

**Forms**

**Required** SHTabQuant  **Recommended** COMP 700-050-03

**Documentation**

**Design** Refer to Comp Book

**Construction** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct. 460-112- ANCHOR BOLT REPLACEMENT EA**
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
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<td></td>
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</tr>
</tbody>
</table>

### 461-113- AB MULTI ROTATIONAL BEARING ASSEMBLY

**Unit**: EA  | **Accuracy**: Each  | **PlanQuantity?**: no

**Details**

Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

**Related Items**

- **Required**
  - **Design**: SHTabQuant
  - **Construction**: Refer to Comp Book

- **Recommended**
  - **Design**: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**: SDG’s 6.5
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 461-113- AB  MULTI ROTATIONAL BEARING ASSEMBLY  EA

- A = Operation
- 1 (Furnish & Install)
- B =
- 1 ( 1 - 250 Kips)
- 2 ( 251 - 500 Kips)
- 3 ( 501 - 750 Kips)
- 4 ( 751 - 1000 Kips)
- 5 (1001 - 1250 Kips)
- 6 (1251 - 1500 Kips)
- 7 (1501 - 1750 Kips)
- 8 (1751 - 2000 Kips)
- 9 ( > = 2001 Kips)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0461113 12</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 251-500 KIPS</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$4,856.26</td>
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<tr>
<td>0461113 13</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 501- 750KIPS</td>
<td>EA</td>
<td>1/1/2007</td>
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<tr>
<td>0461113 15</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 1000-1250 KIPS</td>
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<td>1/1/2007</td>
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<td>$10,000.00</td>
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<tr>
<td>0461113 16</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 1251-1500 KIPS</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$10,000.00</td>
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<tr>
<td>0461113 17</td>
<td>MULTIROTATIONAL BEARING ASSEM-FIXED, F&amp;I, 1501-1750 KIPS</td>
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<tr>
<td>0461113 18</td>
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<td>1/1/2007</td>
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<td>$16,500.00</td>
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</table>

### 461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

**Notes**

Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

**Details**

Required Forms

<table>
<thead>
<tr>
<th>Design</th>
<th>SHTabQuant</th>
</tr>
</thead>
</table>

**Construction**

Refer to Comp Book

**Documentation**

<table>
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<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>SDG’s 6.5</th>
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</table>

**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS**PORT Category (DRAFT FIELD): 0100 Structures

**Status**

461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

A = Operation

1 (Furnish & Install)

**B =**

1 (1 - 250 Kips)
2 (251 - 500 Kips)
3 (501 - 750 Kips)
4 (751 - 1000 Kips)
5 (1001 - 1250 Kips)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<tr>
<td>0461114 12</td>
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<td>1/1/2007</td>
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<td>$4,856.26</td>
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<td>0461114 13</td>
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### 462-2-AA POST TENSIONING TENDONS

<table>
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<th>Unit</th>
<th>LB; KG</th>
<th>Accuracy</th>
<th>Pound; Kilogram</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

**Related Items**

**Forms**

**Required**

**Design**

SHTabQuant

**Recommended**

**COMP 700-050-06**

**Construction**

Refer to Comp Book

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Prep & Doc Manual Chapter(s)**

7, 13
**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct.** 462- 2- AA  
Post Tensioning Tendons  
LB

AA =  
11 (Superstructure Strand)  
12 (Superstructure Bar)  
13 (Substructure Strand)  
14 (Substructure Bar)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>POST TENSIONING TENDONS, SUPERSTRUCTURE BAR</td>
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</table>

**462- 3-**  
Additional Post-Tensioning in Segmental Box Span

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

Intended for rehabilitation projects intended to strengthen span with the installation of additional post-tensioning. Show location in plans. Include a schedule of post tensioning tendons w/ quantity block in plans. Include a pay item notes as necessary to cover the work activity.

**Related Items**

**Forms**

**Design**  
SHTabQuant  
COMP 700-050-03  
Refer to Comp Book

**Construction**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

**Design**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**  
SDG's 4.5

**Standards**

Index 21801 thru 21803

**Specifications**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**  
Inactive Structure

**Struct.** 462- 3-  
Additional Post-Tensioning in Segmental Box Span

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

Details and Structure: Items 400 to 499  
Page 135 of 146
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

462-20- A POST TENSIONING REPAIR

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA; LF; CF</th>
<th>Accuracy</th>
<th>Each; Linear Foot; Cubic Foot</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes Details

NOT FOR USE ON NEW CONSTRUCTION. Details to be included in Tech Specs.
Tendon Inspection: Do not include repairs under this item, except for repair of inspection holes.
Anchorage Inspection: Do not include void repairs or pour backs under this item.
Tendon Repair Set-up: to be used every time a void is detected and is to cover the cost of installing injection and outlet points, preparing to fill void, and sealing of these areas after completion. Shop drawings may be required.
Replace Anchorage Protect Sys: Includes replacement of the tendon anchorage protect system
Repair External Ducts: Not for use to repair areas damaged while repairing voids.
Tendon Replace: Remove & replace complete tendons, including anchorage components, placement & stressing new tendon, grouting, inspection, and protection system.
Grout Tendon Voids: Includes installation & material, detailed in Tech Spec Install Grout Ports: includes drilling and installing grout ports suitable for connection to grouting equipment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
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<td>Construction</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td>Refer to Comp Book</td>
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<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<td>Prep &amp; Doc Manual Chapter(s)</td>
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TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 462-20- A POST TENSIONING REPAIR EA; LF; CF

A=
1 (Tendon Inspection) LF
2 (Anchorage Inspection) EA
3 (Tendon Repair Set-up) EA
4 (Replace Anchorage Protection System) EA
5 (Repair External Tendon Ducts) LF
6 (Replace Tendon) LF

Details and Structure: Items 400 to 499

Page 136 of 146
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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465- 1- MOVABLE BRIDGE- MECHANICAL EQUIPMENT

Details

For new bridge construction only. Intended for furnishing and installing complete mechanical system for bascule bridge. Includes all mechanical equipment and appurtenances (speed reducer and gear train, trunnion assemblies, span locks, couplings, live load shoes, flat & curved tracks, plain journal bearings, spherical bearings, supports and brackets, hydraulic systems, and all other equipment/service) required for a complete mechanical system on new bascule bridges. Clearly define scope of work in plans and specifications.

Contact State Structures Design for boiler plate Specification 465 to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required

Design | SHTabQuantLS

Recommended

COMP 700-050-05

Refer to Comp Book

Related Items

Forms

Design

Refer to Comp Book

Construction

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

SDG’s Chapter 8

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
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**465- 2-ABB** MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB

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<tr>
<td>Notes</td>
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</table>

Details

Intended for rehabilitation projects for bascule bridge machinery and castings. For new structures, the complete machinery system is included under 465- 1, LS. Contact C.O. Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-05</td>
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</tbody>
</table>

Forms and Documentation

| Design                | LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
| Construction          | EACH ITEMS: Location must be summarized on the plans.
| Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 465- 2-ABB MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Adjust /Modify)

---

Details and Structure: Items 400 to 499
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership
8 (Field Machining)

BB= Equipment
01 (Speed Reducer And Gear Train) LS/LS
04 (Trunion Assembly) EA
05 (Span Locks) AS
07 (Couplings) EA
08 (Live Load Shoes) LS/LS
10 (Flat Rack, Curved Rack, Flat Track) EA
11 (Hopkins Frame) EA
21 (Plain Journal Bearing) EA
22 (Spherical Bearing) EA
52 (Hydraulic Cylinder) EA
53 (Hydraulic Motor) EA
54 (Hydraulic Power Pack) EA
55 (Temporary Hydraulic System) EA
60 (Other Machinery Components) LS

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
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<tr>
<th>Forms</th>
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<tr>
<td>Design</td>
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</tr>
<tr>
<td>Construction</td>
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### Documentation

| Design          | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction    | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

| PPM Chapter     | SDG's Chapter 8 |
| Other           |                |

### Standards

### Specifications

Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD): 0100 Structures

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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### Details and Structure: Items 400 to 499
465- 4- MOovable Bridge span jacking

### Notes
- Intended for rehabilitation projects to jack bascule span off trunnion supports. Used in conjunction with trunnion reconditioning or bearing replacement. Tech Spec should include jacking procedure, and require that procedures and calculations be completed by a Florida Licensed Engineer.
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items
- **Forms**
  - **Required**: SHTabQuantLS
  - **Recommended**: COMP 700-050-05
- **Documentation**
  - **Design**: Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
  - **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

### Status
- **Struct. 465- 4- MOvable Bridge span jacking**: LS/EA

### Notes
- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

465- 20- MOvable Bridge- Preventative maintenance

### Notes
- This item covers the cost of maintaining a movable bridge during construction.
- Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

### Related Items
- **Forms**
  - **Required**: Design
  - **Recommended**: Design

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Details and Structure: Items 400 to 499
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0465 20</td>
<td>MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE &amp; ROUTINE REPAIR</td>
<td>LS</td>
<td>T</td>
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<td>$160.96</td>
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465- 21- MOVABLE BRIDGE OPERATOR

<table>
<thead>
<tr>
<th>Unit</th>
<th>DA</th>
<th>Accuracy</th>
<th>Day</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

Notes

This item covers the cost of furnishing a bridge tender during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tr>
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</table>

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 465- 21- MOVABLE BRIDGE OPERATOR DA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
**465-71- A MOBILE BRIDGE FUNCTIONAL CHECKOUT**

**Unit** LS/LS  **Accuracy** Lump Sum  **Plan Quantity?** yes

**Notes**
Phase A to be used to test first-two leaves of a four leaf bascule, Phase B to be used for the Second-two leaves, and Phase C to be used for the complete bridge. Sometimes Phase C and Phase B are combined for simplicity. This item is required on all new bascule bridges and on all bascule bridge rehabilitation projects where the leaf operation, weight is being affected.

Where phasing is not required, only a single checkout (Phase C) is required. Contact State Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** SHTabQuantLS  **Recommended** COMP 700-050-05

**Forms**
Design - Refer to Comp Book

**Documentation**
Design - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
PPM Chapter SDG’s 8.7.19

**Standards**

**Specifications**
Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 465-71- A MOBILE BRIDGE FUNCTIONAL CHECKOUT LS/LS

A = See detail for Phasing
1 (Phase A) for 1st 2 leaves
2 (Phase B) for 2nd leaves
3 (Phase C) for Complete

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
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<td>0465 71 1</td>
<td>MOVEABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE A</td>
<td>LS</td>
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<tr>
<td>0465 71 3</td>
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<td>LS</td>
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<td>1/1/2007</td>
<td></td>
<td>$39,576.64</td>
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</tbody>
</table>
TREATED TIMBER, STRUCTURAL

**Unit**  MB; M3  **Accuracy**  10th of a Thou Board Measure; 10th of a Cubic Meter  **PlanQuantity?**  yes

**Notes**

Intended for the cost of treated structural timber. The quantity of timber to be based on the final width and thickness shown in the plans. When applicable, indicate in the plans the nominal size (2x6) and dressed dimension. Quantity is to be based on the dressed volume. For rough cut or “full sawn” sizes, the nominal size is the finished size and the basis of the quantity. Timber piles paid for under 455-2-XXA.

The board-foot measure is the unit of volume for measuring lumber. One board-foot measure is a 12-inch long 1-inch-by-12-inch volume. MB is per thousand board-foot measure.

Example calculation:
800’ - 12X6 Rough Sawn = 800x12x6/12,000= 4.8 MB
800’ - 12X6 Dressed Lumber (Dressed 11 ½ “ X 5 ½”) = 800X11.5X5.5/12,000= 4.2 MB

**Related Items**

**Required**
- SHTabQuant

**Recommended**
- COMP 700-050-04

**Forms**
- Design: Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- PPM Chapter
- Other:
- Structures Detailing Manual Chapter 12.

**Specifications**
- Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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<th>Item</th>
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<th>Obsolete Date</th>
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<td>MB</td>
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<td>1/1/2007</td>
<td>$5,435.17</td>
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FENDER SYSTEM, PLASTIC MARINE LUMBER

**Unit**  MB; M3  **Accuracy**  10th of a Thou Board Measure; 10th of a Cubic Meter  **PlanQuantity?**  yes

**Notes**

Effective January 2007 letting.

details to be used for wales and dimensional lumber for fender systems. Plastic piling to be paid separately under Section 455 items.
one board foot = one foot square by one inch thick; convert to thousand board foot for pay item.
Refer to Design Standards and Specifications for additional information.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>455-37-a</th>
<th>Recommended</th>
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<tbody>
<tr>
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<td>Construction</td>
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<td>Design</td>
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<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td></td>
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<td></td>
<td>Other</td>
<td></td>
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<tr>
<td></td>
<td>Standards</td>
<td>Index No. 21900 thru 21930</td>
<td></td>
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<td></td>
<td>Specifications</td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
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| TRNS*PORT Category (DRAFT FIELD): | 0100 | Structures |

<table>
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<th>Status</th>
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<th>471-1-A</th>
<th>FENDER SYSTEM, PLASTIC MARINE LUMBER MB</th>
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<tbody>
<tr>
<td></td>
<td>A= Reinforcement</td>
<td>1 (Reinforced)</td>
<td>2 (non-reinforced)</td>
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</table>

| Notes |  |

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<tr>
<td>0471 1</td>
<td>FENDER SYSTEM, PLASTIC MARINE LUMBER, NON-REINFORCED MB</td>
<td>1/1/2007</td>
<td></td>
<td>$18,129.99</td>
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<td></td>
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</tbody>
</table>
504- 1- AA  STEEL ROADWAY FLOOR

Unit  SF; M2  Accuracy  Square Foot; 10th of a Square Meter  PlanQuantity?  yes

Notes

Details

Intended for steel grating for sidewalks and bridge decks usually on bascule leaves. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, no separate payment is made for fill concrete. See Section 504 for Specifications.

Related Items

Required  Recommended

Forms

Design  SHTabQuant  COMP 700-050-01
Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0100  Structures

Status

Struct.  504- 1- AA  STEEL ROADWAY FLOOR  SF

A =
1 (5" Open)
2 (3" Armored)
3 (4 1/2" Open)
4 (5 1/2" Open)
5 (5 1/2" Armored)
6 (3 1/2" Armored)
7 (7 1/2" Open)
8 (6" Open)
9 (3 1/2" Open)
10 (5" Armored)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0504 1 1</td>
<td>ROADWAY FLOOR, STEEL, 5&quot; OPEN</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$64.99</td>
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<tr>
<td>0504 1 2</td>
<td>ROADWAY FLOOR, STEEL, 3&quot; ARMORED</td>
<td>SF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$89.57</td>
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</tbody>
</table>

504- 2-  SIDEWALK FLOOR, STEEL - REHAB

Unit  SF; M2  Accuracy  Square Foot; 10th of a Square Meter  PlanQuantity?  yes

Notes

Details and Structure: Items 500 to 599
Intended for rehabilitation projects when steel sidewalks gratings is required without roadway grating. On new bascule bridge projects, include both sidewalk and roadway grating quantity under 504-1. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, include cost of the concrete fill under this pay item (add pay item note).

### Required Standards

**Specifications**

**Details**

**Status**

Inactive Structure

**Struct.**

504-2 SIDEWALK FLOOR, STEEL - REHAB SF

### Related Items

**Forms**

Required: SHTabQuant

Recommended: COMP 700-050-01

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References

**PPM Chapter**

**Design**

**Construction**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**

0100 Structures

### Status

**Inactive Structure**

**Struct.**

504-2 SIDEWALK FLOOR, STEEL - REHAB SF

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>05042</td>
<td>SIDEWALK FLOOR, STEEL, REHABILITATION</td>
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</table>

504-3 Rehab Steel Floor

### Notes

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### Notes

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### Related Items

**Forms**

Required: Design

Recommended: Construction

**Documentation**

Design: Design

Construction: Construction

**References**

PPM Chapter

Other

Standards

Specifications

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

---

**Status**

---

Details and Structure: Items 500 to 599
Struct.  504- 3-  Rehab Steel Floor

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>506- 2-</th>
<th>BRIDGE DRAIN PIPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>LF; M1</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>yes</td>
</tr>
</tbody>
</table>

Notes

Details

Intended for payment for drainage pipes located on bridge structure to convey water from deck inlets to ends of bridge or down to ground at pier locations. Include piping that is cast into concrete components in the quantity. Bridge drains paid separately under 506-3. Show location w/ quantity block in plans.

Related Items

Required 506- 3-  Recommended

Forms

Design SHTabQuant  COMP 700-050-03

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100  Structures

Status

Struct.  506- 2-  BRIDGE DRAIN PIPE  LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<tbody>
<tr>
<td>0506 2</td>
<td>BRIDGE DRAINAGE PIPE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
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<td>$107.06</td>
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</table>

506- 3-  BRIDGE DRAINS

Notes

Details

Intended for payment for deck inlets located on bridge structure. Bridge piping paid under 506-2. Deck scuppers holes cast into bridge deck should not be paid for under this item unless they consist of a casting. Pay for deck scupper holes under superstructure concrete (add pay item note). Show location w/ quantity block in plans.

Related Items

Required 506- 2-  Recommended

Forms

Design SHTabQuant  COMP 700-050-03

Details and Structure: Items 500 to 599
Standards
Specifications

Struct. 506-3  BRIDGE DRAINS EA

Notes
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References PPM Chapter Other
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<td>0506 3</td>
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<td>1/1/2007</td>
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<td>$2,063.00</td>
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</tbody>
</table>

506-72- POWER CLEAN BRIDGE DOWN DRAIN

Notes
Valid for Maintenance Use. Plans or Specifications must detail cleaning requirements including: method(s), permitted chemicals, etc.

Details

Related Items

Required  Recommended
Forms
Design       CADD Form not specified;
Construction Refer to Comp Book

Documentation

Design
Construction

References
PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD):

Status

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 500 to 599
### 507 - 70- ALUMINUM SIDEWALK FLOOR

<table>
<thead>
<tr>
<th>Unit</th>
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<tbody>
<tr>
<td>SF; M2</td>
<td>Square Foot; 10th of a Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Intended for aluminum sidewalks usually on bascule leaves. Show location w/ quantities block in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
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**Documentation**

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<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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</table>

**References**

PPM Chapter

Other Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**

0100 Structures

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**Status**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<td>0507 70</td>
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### 508 - 1- A MOVABLE BRIDGE ELECTRICAL EQUIPMENT

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<tr>
<th>Unit</th>
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<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
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</tbody>
</table>

**Notes**

For movable bridges only. Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NEW- FURNISH & INSTALL: Includes complete, new, electrical system for bascule
bridge. Includes all electrical equipment and appurtenances (emergency generator, submarine cable, motors, control console, brakes, programmable controller, motor control center, drive system, CCTV system, navigation lights, gates, signals, and all other equipment/service) required for a complete installation on bascule bridges.

EXISTING- ADJUST/MODIFY/REHAB: Includes all electrical system equipment, components, and/or work not paid for separately under other items. May include furnishing/wiring/installation of new or rehab electrical components.

REMOVAL: Clearly identify which items are to be stockpiled or disposed. For stockpiled items, include a location for delivery (define limits of contractor’s work) and a contact name.

### Related Items

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuantLS COMP 700-050-05</td>
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<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation</td>
<td>Design</td>
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<tr>
<td></td>
<td>Construction</td>
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### References

<table>
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<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Standards</td>
<td>Specifications</td>
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Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

<table>
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<th>TRNS*PORT Category (DRAFT FIELD):</th>
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<tr>
<td>0100 Structures</td>
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### Status

<table>
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<tr>
<th>Struct.</th>
<th>MOVABLE BRIDGE ELECTRICAL EQUIPMENT LS/LS</th>
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<tbody>
<tr>
<td>508-1-A</td>
<td>A= Operation</td>
</tr>
<tr>
<td></td>
<td>1 (New- Furnish &amp; Install)</td>
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<td></td>
<td>4 (Relocate)</td>
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<td></td>
<td>5 (Existing- Adjust/Modify/Rehab)</td>
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<tr>
<td></td>
<td>6 (Remove &amp; Dispose) Note: Contractor takes ownership</td>
</tr>
<tr>
<td></td>
<td>7 (Remove &amp; Stockpile/Salvage) Note: DOT/maintaining agency retains ownership</td>
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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
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<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0508 1 1</td>
<td>MOVABLE BRIDGE ELECTRICAL EQUIPMENT, F&amp;I</td>
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<td>0508 1 6</td>
<td>MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REMOVE &amp; DISPOSE CONTRACTOR TAKES OWNERSHIP</td>
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<td>$16,407.64</td>
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### 508-2-A MOVABLE BRIDGE GATE

Details and Structure: Items 500 to 599
For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.) Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new gates on an existing bascule bridge.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing gates. Include pay item 508-1 for other electrical system work.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
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<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation Design</td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

References PPM Chapter Other

Standards Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 2- A MOVABLE BRIDGE GATE AS

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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## 508- 3- A MOVABLE BRIDGE SIGNAL

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<tr>
<td></td>
<td>For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.)</td>
</tr>
<tr>
<td></td>
<td>Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.</td>
</tr>
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<td>For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
</tr>
<tr>
<td></td>
<td>FURNISH &amp; INSTALL: Furnish &amp; Install new signals on an existing bascule bridge.</td>
</tr>
<tr>
<td></td>
<td>ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing signals. Include pay item 508-1 for other electrical system work.</td>
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</table>

<table>
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<th>Related Items</th>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.  508- 3- A MOVABLE BRIDGE SIGNAL**

A = Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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### Related Items

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**Documentation**

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**References**

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

### Status

**Struct.  508- 3- A MOVABLE BRIDGE SIGNAL**

A = Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

### Notes

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<thead>
<tr>
<th>Item</th>
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**508- 4- MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB**

### Details and Structure

Items 500 to 599
## Notes

USE 508-1-A, with A= REHAB

## Related Items

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## Documentation

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## References

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### TRNS*PORT Category (DRAFT FIELD):

0100 Structures

### Status

**Struct. 508- 4-** MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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### 508- 72- A MOVABLE BRIDGE EMERGENCY GENERATOR

<table>
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<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>AS</td>
<td>Assembly</td>
<td>yes</td>
</tr>
</tbody>
</table>

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### Notes

Includes standby generator system (generator, transfer switch, control panel, etc.) for bascule bridge rehabilitation projects only.

For new structures, emergency generator is included under 508- 1-. Clearly define work in plans and specifications.

Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
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<td>Construction</td>
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### Documentation

<table>
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<th>Design</th>
<th>Construction</th>
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<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
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### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
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Details and Structure: Items 500 to 599
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status
Struct. 508- 72- A MOVABLE BRIDGE EMERGENCY GENERATOR AS

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes
Plan Detail and/or Tech Spec Required

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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</table>

508- 73- A SUBMARINE CABLE ASSEMBLY

Unit LS/LF; LS/M1 Accuracy Lump Sum (Linear Foot); ~ PlanQuantity? ~ yes
Lump Sum (Meter)

Notes
Details
Intended for sub-aqueous cable. For bascule bridge rehabilitation projects only or fixed new bridge projects.
For new bascule bridge projects, submarine cable is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Forms Required Recommended
Design SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation
Design Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Struct. 508-73- A  SUBMARINE CABLE ASSEMBLY  LS/LF

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<td>SUBMARINE CABLE ASSEMBLY, FURNISH &amp; INSTALL</td>
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</table>

508-76- A  MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS

Unit LS/LS  Accuracy Lump Sum  PlanQuantity? yes

Notes
Details
Includes span drive motors and speed controllers for bascule bridge rehabilitation only. For new structures, span motors are included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required Recommended
Forms
Design SHTabQuantLS  COMP 700-050-05
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other SDG's Chapter 8
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

## Status

**Struct.** 508- 76- A MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>LRE Ref Price</th>
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<tbody>
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### 508- 77- A MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER

<table>
<thead>
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<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>no</td>
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</table>

### Details

Includes programmable logic controllers (controllers, I/O racks, power supplies, programming) for bascule bridge rehabilitation only. For new structures, logic controllers are included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Required**
- SHTabQuant

**Recommended**
- COMP 700-050-03

### Forms

**Design**
- Refer to Comp Book

### Documentation

**Design**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**
- SDG’s Chapter 8

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13
Struct.  508- 77- A MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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508- 78- A MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS

Notes

Details

Includes limit switches and transducers for bascule bridge rehabilitation only. For new structures, limit switches and transducers are included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design
Construction

Recommended
SHTabQuantLS
Refer to Comp Book

Forms

Documentation

Design
Construction

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13
### Struct. 508-78- A

**MOVABLE BRIDGE REHAB - LIMIT SWITCHES AND TRANSDUCERS**

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<td>2 (Furnish)</td>
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<td>4 (Remove)</td>
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<td>5 (Programming)</td>
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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>0508 78 4</td>
<td>MOVABLE BRIDGE-REHAB, LIMIT SWITCHES &amp; TRANSDUCERS REMOVE</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$3,549.04</td>
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### Struct. 508-79- A

**MOVABLE BRIDGE REHAB - CONTROL CONSOLE**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
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</thead>
<tbody>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Includes control console and associated equipment (switches, indicating lights, relays, etc.) for bascule bridge rehabilitation only. For new structures, control console is included under 508-1-. Clearly define work in plans and specifications. Contact State Structures Design Office for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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</table>

### Forms

<table>
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<tr>
<td>Refer to Comp Book</td>
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### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>SDG’s Chapter 8</th>
</tr>
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### Standards

Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

### Struct. 508-79- A

**MOVABLE BRIDGE REHAB - CONTROL CONSOLE**

| A = |

Details and Structure: Items 500 to 599
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0508 79 1</td>
<td>MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, F&amp;I</td>
<td>EA</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td></td>
<td>$84,413.60</td>
</tr>
<tr>
<td>0508 79 4</td>
<td>MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, REMOVE</td>
<td>EA</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td></td>
<td>$1.00</td>
</tr>
</tbody>
</table>

508- 80- A  MOVABLE BRIDGE REHAB- BRAKE SYSTEM

Unit EA Accuracy Each PlanQuantity? yes 508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM EA

Notes

Details

Includes brake systems (brake shoes, brake drums, brake operators) for bascule bridge rehabilitation only. For new structures, brake system is included under 508- 1-. Clearly define work in plans and specifications.

Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
</table>

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other SDG’s Chapter 8

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM EA

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0508 80 1</td>
<td>MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, F&amp;I</td>
<td>EA</td>
<td>1/1/2007</td>
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<tr>
<td>0508 80 4</td>
<td>MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, REMOVE</td>
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<td>$776.61</td>
</tr>
</tbody>
</table>

**508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER**

**Notes**

Includes motor control center and starters for bascule bridge rehabilitation only. For new structures, control panel or motor controller is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tbody>
<tr>
<td>Design</td>
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<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>SDG's Chapter 8</th>
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</table>

**Prep & Doc Manual Chapter(s)**

6, 7, 13

**Status**

**Struct.** 508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Replace)*

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Table:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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</thead>
<tbody>
<tr>
<td>0508 82 1</td>
<td>MOVABLE BRIDGE-REHAB, CONTROL PANEL - MOTOR CONTROLLER, F&amp;I</td>
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<td>1/1/2007</td>
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<td>$1.00</td>
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</table>

**508- 83-ABB MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM**

**Notes**

Includes drive systems (motor(s), variable speed drive, shop testing) for bascule bridge rehabilitation only. For new structures, integrated drive system is included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**: SDG’s Chapter 8

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 508- 83-ABB MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM

A = Operation
1 (Furnish & Install)
2 (Replace)
3 (Recondition)
4 (Repair)
BB = Drive Type
01 (25 kW Or Less)
02 (26 - 40 kW)
03 (41 - 60 kW)
04 (61 - 80 kW)
05 (81 - 115 kW)
06 (116 - 155 kW)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0508 83101</td>
<td>MOVABLE BRIDGE INTEGRATED DRIVE SYS, F&amp;I, 25KW OR LESS</td>
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<tr>
<td>0508 83107</td>
<td>MOVABLE BRIDGE-REHAB, INTEGRATED DRIVE SYSTEM, F&amp;I 156 - 190 KW</td>
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<td>1/1/2007</td>
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<td>$1.00</td>
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</table>

---

510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE

Unit: LS/LS; EA
Accuracy: Lump Sum; Each
PlanQuantity?: yes/no

Details
Includes work related to the navigation lights and accessories for fixed bridges, including the fender and channel lights. For bascule bridges, navigation lights included under 508-1.

FINAL:
LUMP SUM: No calculations required unless item is to be adjusted. All calculations and documentation of adjustments, in accordance with the Specifications, are required.
EACH: Final quantity must be recorded in space provided on summary sheet in the plans. All changes must be shown on final plan sheets.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

Documentation
<table>
<thead>
<tr>
<th>Design</th>
<th>LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans. EACH ITEMS: Location must be summarized on the plans.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

References
<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tbody>
<tr>
<td>Index 21220</td>
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</table>

Prep & Doc Manual Chapter(s): 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Struct. 510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE LS/LS; EA

A = Blank (Navigation Lights) LS/LS
3 (Piers) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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<td>NAVIGATION LIGHTS- FIXED BRIDGE</td>
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</table>
### 512- 1- A  MOVABLE BRIDGE- CONTROL HOUSE

<table>
<thead>
<tr>
<th>Unit</th>
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<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Details**

Intended for the complete cost of control house for bascule bridges. Include cost of foundation under separate pay items (piling, shaft, etc.) Contact State Structures Design for boiler plate specification to be modified as required for project specifics. Clearly show limits in plans for payment purposes. Include complete bar lists for control house in the plans, including cost of reinforcing steel for walls and floors.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

PPM Chapter
Other Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

A =
1 (Renovation)
Blank (New)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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<td>MOVABLE BRIDGE-CONTROL HOUSE, NEW</td>
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<td>0512 1 1</td>
<td>MOVABLE BRIDGE-CONTROL HOUSE, RENOVATE</td>
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</table>

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### 512- 71- A  MOVABLE BRIDGE PLUMBING SYSTEM

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<thead>
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<th>Unit</th>
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<tbody>
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<td>Each</td>
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**Details**

**Related Items**

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<td>Design</td>
<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
</tbody>
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Details and Structure: Items 500 to 599
Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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<th>Valid Date</th>
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<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0512 71</td>
<td>MOVABLE BRIDGE PLUMBING SYSTEM, FURNISH &amp; INSTALL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$50,000.00</td>
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</tbody>
</table>

514-71- A  FILTER FABRIC, PLASTIC

Unit SY; M2
Accuracy Square Yard; Square Meter

Notes
Intended for Subsurface Drainage or Stabilization applications, as detailed in Section 514 of Specifications.

When this item is incidental to other work, no separate payment is made for filter fabric. Refer to specifications and/or design standards:
Ditch Pavement, Section 524: no separate payment for filter fabric

Related Items
Required 514-72 for impermeable liner
Recommended

Forms
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards Index No. 199
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 514-71- A FILTER FABRIC, PLASTIC SY
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Accuracy</th>
<th>PlanQuantity</th>
<th>Related Items</th>
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</thead>
<tbody>
<tr>
<td>0514 71 1</td>
<td>PLASTIC FILTER FABRIC, SUBSURFACE</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0514 71 2</td>
<td>PLASTIC FILTER FABRIC, STABILIZATION</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

514-72- LINER IMPERMEABLE PVC

Unit: SY; M2
Accuracy: Square Yard; Square Meter
Plan Quantity?: no

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required: SHTabQuant
Recommended: COMP 700-050-01

Forms

Design: SHTabQuant
Construction: Refer to Comp Book

Documentation

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s): 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Details and Structure: Items 500 to 599
Details

Pipe handrail is generally used in locations where drop-off is between 10" and 30". Additional applications may include "steering" pedestrians next to a sidewalk or out of a parking lot (with or without drop-off).

For use next to drop-off greater than 30", refer to Index 800 series and pay items 460-70 or 515-2.

Not valid for use on bridge.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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<td>Design</td>
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<tr>
<td></td>
<td>COMP 700-050-03</td>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Documentation</td>
<td>Design</td>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
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<tr>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### Standards

- Index No. 870 (aluminum) or 880 (steel) only

### Specifications

*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

6, 7, 13

### TRNS**PORT Category (DRAFT FIELD):

0200 Roadway

### Status

Struct. 515- 1- A PIPE HANDRAIL- GUIDERAIL LF

A =
1 (Steel) per Index 880
2 (Aluminum) per Index 870
5 (PVC)*

Notes

*Plan Details and/or Tech Spec required for PVC materials. Consider weather, UV requirements, etc.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<tr>
<td>0515 1 1</td>
<td>PIPE HANDRAIL - GUIDERAIL, STEEL</td>
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<td></td>
</tr>
</tbody>
</table>

515- 2-ABB PEDESTRIAN/BICYCLE RAILING

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
PlanQuantity? yes

Notes

to be used for pedestrian railing next to drop-offs greater than 30". Use in accordance with Index 850 and 860; English standards may be used on metric projects.

Details and Structure: Items 500 to 599
These specific rails replace the current two rail system, and are intended to be used when there is a drop-off next to a pedestrian or bicycle facility which must be protected. These rails are not intended for use on top of traffic barriers or where vehicle containment is required.

For drop-off locations less than 30", consider item 515-1. For other railings, refer to Index series 800 and pay item 460-70-xxa.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
<tr>
<td>PPM Chapter</td>
<td>Vol 1, Section 8.8</td>
<td></td>
</tr>
<tr>
<td>Other Standards</td>
<td>Index No. 850 or 860</td>
<td></td>
</tr>
</tbody>
</table>

*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0515 2101</td>
<td>PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED, 42&quot; PICKET RAIL</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$62.79</td>
<td></td>
</tr>
<tr>
<td>0515 2102</td>
<td>PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED, 54&quot; PICKET RAIL</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$89.05</td>
<td></td>
</tr>
<tr>
<td>0515 2201</td>
<td>PEDESTRIAN, BICYCLE RAILING, STEEL ONLY, 42&quot; PICKET RAIL</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$84.74</td>
<td></td>
</tr>
<tr>
<td>0515 2202</td>
<td>PEDESTRIAN / BICYCLE RAILING, STEEL ONLY, 54&quot; PICKET RAIL</td>
<td>LF</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
<td>$78.50</td>
<td></td>
</tr>
</tbody>
</table>
519-78- BOLLARDS

Unit: EA  Accuracy: Each  Plan Quantity?: yes

Details:
Tech Spec should indicate that this is a plan quantity item. Details to consider include:
materials, methods and/or construction requirements. Intended for posts placed at the ends of pedestrian or special-use facilities. Space as necessary to restrict certain vehicles, while allowing others.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Required: Design: SHTabQuant; Construction: Refer to Comp Book
Recommended: Design: COMP 700-050-03

Documentation
Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other: Prep & Doc Manual Chapter(s) 7, 13
Standards
Specifications

Plan Detail and/or Tech Spec Required

TRNSPORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 519-78- BOLLARDS EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item Description Unit TSP/Detail Valid Date Obsolete Date LRE Ref Price
0519 78 BOLLARDS EA T 1/1/2007  1/1/2007 $477.92

520-1- AA CONCRETE CURB AND GUTTER

Unit: LF; M1  Accuracy: Linear Foot; 10th of a Meter  Plan Quantity?: yes

Notes

Details and Structure: Items 500 to 599
Details
Includes construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measure along the face of the curb. Cost of asphalt curb pad, and additional curb thickness required, to be included in the cost of curb and gutter.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Control</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

References
PPM Chapter
Design
Construction
Other
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 520-1- AA CONCRETE CURB AND GUTTER LF

AA =
7 (Type E)
8 (Special) - For Any Odd Type*
10 (Type F)

Notes
**Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0520 1 7</td>
<td>CONCRETE CURB &amp; GUTTER, TYPE E</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$15.75</td>
</tr>
<tr>
<td>0520 1 8</td>
<td>CONCRETE CURB &amp; GUTTER, SPECIAL</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$37.01</td>
</tr>
<tr>
<td>0520 1 10</td>
<td>CONCRETE CURB &amp; GUTTER, TYPE F</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$17.10</td>
</tr>
</tbody>
</table>

520-2- AA CONCRETE CURB

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? yes

Notes
Per specification, asphalt curb pad will be included in unit price, when detailed in the plans.

Details and Structure: Items 500 to 599
QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

---

### References

#### PPM Chapter

#### Other

#### Standards

Index No. 300

#### Specifications

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

---

**Struct.** 520-2- AA

**CONCRETE CURB**

**LF**

AA =

1 (Type A)
2 (Type B)
4 (Type D)
9 (Special)*

**Notes**

**“Special”** will require plan details and/or Tech Spec

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0520 2 1</td>
<td>CONCRETE CURB, TYPE A</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
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<tr>
<td>0520 2 2</td>
<td>CONCRETE CURB, TYPE B</td>
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<td>1/1/2007</td>
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<tr>
<td>0520 2 4</td>
<td>CONCRETE CURB, TYPE D</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
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<tr>
<td>0520 2 9</td>
<td>CONCRETE CURB, SPECIAL</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$41.84</td>
</tr>
</tbody>
</table>

---

### 520-3-

**VALLEY GUTTER, CONCRETE**

**Unit** LF; M1

**Accuracy** Linear Foot; 10th of a Meter

**PlanQuantity?** yes

---

**Notes**

---

**Details**

---

**Related Items**

**Forms**

**Required Design** SHTabQuant

**Recommended**

COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

---

### Construction Design

Refer to Comp Book

---

### Construction

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

---

### References

#### PPM Chapter

#### Other

#### Standards

Index No. 300

#### Specifications

---

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

Details and Structure: Items 500 to 599
### Notable Items

**Struct. 520-3- VALLEY GUTTER, CONCRETE LF**

- **Notes**
  - The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0520 3</td>
<td>VALLEY GUTTER- CONCRETE</td>
<td>LF</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
<td>1/1/2007</td>
<td>$26.38</td>
<td></td>
</tr>
</tbody>
</table>

**520-4- CONCRETE GUTTER, SPECIAL LF**

- **Notes**
  - Calculate carefully to reflect actual scope of work.

- **Details**
  - Related Items: Required, Recommended

- **Forms**
  - Design: SHTabQuant
  - Construction: COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
  - Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

- **References**
  - PPM Chapter
  - Other
  - Standards: Index No. 300
  - Specifications
  - Prep & Doc Manual Chapter(s): 6, 7, 13

**Struct. 520-4- CONCRETE GUTTER, SPECIAL LF**

- **Notes**
  - The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**Details**

- Includes construction of traffic separator in 4, 6, and 8.5' (1.2, 1.8, and 2.6 meter) widths.
- Includes all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Include the length of the nose when calculating the linear feet (meters). Refer to Plans Preparation Manual for proper use.
For separator of variable width, consider item 520-70, paid per area.

### Related Items

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
</tbody>
</table>

**Construction**

Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**
  - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### Specifications

- **Struct.**
  - 520-5-AB
  - **CONCRETE TRAFFIC SEPARATOR**
  - **LF**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Type I)</td>
<td>1 (4' Wide)</td>
</tr>
<tr>
<td>2 (Type II)</td>
<td>2 (6' Wide)</td>
</tr>
<tr>
<td>4 (Type IV)</td>
<td>6 (8.5' Wide)</td>
</tr>
<tr>
<td>5 (Type V)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

NOTE: A= 1 Thru 6 Valid For Widths Of 4', 6' And 8.5' Only; B = 1, 2 Or 6 Only.

### Status

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### References

- **PPM Chapter**
- **Other**
- **Index No.** 300, 302, 212, 213

**Prep & Doc Manual Chapter(s)** 6, 7, 13

### Related Items

**Forms**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0520 5 11</td>
<td>TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
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</tr>
<tr>
<td>0520 5 12</td>
<td>TRAFFIC SEPARATOR CONCRETE-TYPE I, 6' WIDE</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
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<td>$45.48</td>
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</tr>
<tr>
<td>0520 5 16</td>
<td>TRAFFIC SEPARATOR CONCRETE-TYPE I, 8.5' WIDE</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0520 5 21</td>
<td>TRAFFIC SEPARATOR - CONCRETE, TYPE II, 4' WIDE</td>
<td>LF</td>
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<tr>
<td>0520 5 22</td>
<td>TRAFFIC SEPARATOR - CONCRETE, TYPE II, 6' WIDE</td>
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<td>$84.12</td>
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<tr>
<td>0520 5 41</td>
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<td>$34.29</td>
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<tr>
<td>0520 5 42</td>
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<td>1/1/2007</td>
<td></td>
<td></td>
<td>$51.69</td>
<td></td>
</tr>
</tbody>
</table>

**Details and Structure:** Items 500 to 599

---

Page 28 of 81
### 520- 6-

**SHOULDER GUTTER, CONCRETE**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Deduct inlet top lengths as shown in the standards from the length of curb and gutter. For Type S, length to be measured along the face of the curb.

**Related Items**

**Forms**

Required: SHTabQuant

Recommended: COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

**Documentation**

**Design**

Refer to Comp Book

**Construction**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.**

**References**

PPM Chapter

Other Standards: Index No. 220, 284, 300

Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Struct. 520- 6- SHOULDER GUTTER, CONCRETE LF

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>0520 6</td>
<td>SHOULDER GUTTER- CONCRETE</td>
<td>LF</td>
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<td></td>
<td></td>
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</table>

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**520- 70-**

**CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Includes construction of traffic separator in variable width, as indicated in the plans. Refer to Plans Preparation Manual for proper use. Consider item 520-5 for constant width separator, paid per length.

**Related Items**

**Forms**

Required: SHTabQuant

Recommended: COMP 700-050-01

**Documentation**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities
sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0520 70</td>
<td>CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$67.16</td>
</tr>
</tbody>
</table>

**521- 1- A** MEDIAN CONCRETE BARRIER WALL

**Unit** LF; M1  **Accuracy** Linear Foot; 10th of a Meter  **PlanQuantity?** yes

**Notes**
to be used when calling for concrete barrier wall that is to be located in a median (double face or full wall barrier); see 521- 72- (2521- 72-) for shoulder wall. Consists of construction of plain or reinforced barrier wall. The contractor may request approval for precast construction in lieu of cast-in-place.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Design</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**  **Other**

**Standards** Index No. 217, 410, 413, 415  **Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>521- 1- A</th>
<th>MEDIAN CONCRETE BARRIER WALL</th>
<th>LF</th>
</tr>
</thead>
</table>
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### Item 0521
**Description:** Median Concrete Barrier Wall
**Unit:** LF
**Valid Date:** 1/1/2007
**Obsolete Date:**
**Price:** $127.73

### Item 0521 1 1
**Description:** Median Barrier Wall Conc, Precast
**Unit:** LF
**Valid Date:** 1/1/2007
**Price:** $60.61

---

### 521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE

**Unit:** LF; M1  
**Accuracy:** Linear Foot; 10th of a Meter  
**PlanQuantity?:** yes

---

**Notes**

Items to be used in accordance with Standard Indexes. If any modification is made to a standard barrier, the "Special" pay item should be used. Details for any non-standard barrier must be submitted to the Structures Design Office for approval, due to crash testing requirements.

Include barriers located on approach slabs in this item.

**Standard Indexes:**
- Index 420 - 32" F-Shape
- Index 425: 42" F-Shape
- Index 421: 32" Median, Double Face
- Index 423: 32" Vertical Face
- Index 424: Corral With Curb
- Index 424: Corral W/O Curb
- Index 480 thru Index 483: Retrofit-Vertical Face
- Index 5210: F–Shaped with Sound Barrier Wall, 8'Ht.

**Related Items**

- **Required:**
  - Forms: SHTabQuant  
  - Construction: COMP 700-050-03

- **Recommended:**
  - Forms: Refer to Comp Book
  - Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Specifications**

- **PPM Chapter:** SDG 6.7
- **Other:** See detail for index numbers 420, 421, 422, 423, 424, 425, 480, 481, 482, 483, 5210

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Struct. Status:** 521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE LF
Topic No. 600-000-002
Basis of Estimates

October 6, 2008

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” F-Shape Median, Double Face)
4 (32” Vertical Face)
5 (42” Vertical Face)
6 (Corral With Curb)
7 (Corral W/O Curb)
8 (Retrofit-Vertical Face)
9 (Special)*
20 (F–Shaped with Sound Barrier Wall 8’Ht.)

Notes
*See details above for use of "Special" item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0521 5 1</td>
<td>CONCRETE TRAFFIC RAILING, BRIDGE 32” F - SHAPE</td>
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<td>0521 5 2</td>
<td>CONCRETE TRAFFIC RAILING, BRIDGE 42” F - SHAPE</td>
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<td>1/1/2007</td>
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<td>CONCRETE TRAFFIC RAILING, BRIDGE, 32” F - SHAPE, MEDIAN, DOUBLE FACE</td>
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<td>0521 5 7</td>
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<td>1/1/2007</td>
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<td>0521 5 8</td>
<td>CONCRETE TRAFFIC RAILING, BRIDGE, RETROFIT-VERTICAL FACE</td>
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<td>1/1/2007</td>
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<td>$101.68</td>
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<td>0521 5 9</td>
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<td>$145.49</td>
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<tr>
<td>0521 5 20</td>
<td>CONCRETE TRAFFIC RAILING, BRIDGE, F SHAPED WITH SOUND BARRIER WALL 8’ HEIGHT</td>
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<td>1/1/2007</td>
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<td>$325.82</td>
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</table>

521- 6- A CONCRETE PARAPET

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
PlanQuantity? yes

Notes

Details
Intended for pedestrian/ bicycle railings located on bridge or on retailing walls. Includes cost of concrete portion of the parapet (including cost of sidewalk as applicable). Railing mounted on the top of parapet are to be paid for separately.
Show location w/ quantity block on bridge superstructure sheets and wall sheets as required.
When Index 800, Pedestrian Bicycle Railing is utilized, Pay Item 460-70-3 also Required

Related Items

Required
Design SHTabQuant
Construction Refer to Comp Book

Recommended
Forms COMP 700-050-03

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

Details and Structure: Items 500 to 599
QUANTITY will be basis of payment to the Contractor.

**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct.** 521- 6- A  

**CONCRETE PARAPET**  

**LF**

AA =
1 (Pedestrian/Bicycle)
2 (Special)*
3 (Retaining Wall System Mounted w/ Sidewalk)
4 (Retaining Wall System Mounted w/ sidewalk and 8' Sound Wall)

**Notes**

**"Special"** will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<td>0521 6 2</td>
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<td>0521 6 3</td>
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<td></td>
<td>$152.78</td>
</tr>
</tbody>
</table>

**521- 7- AA**  

**CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM**

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** yes

**Notes**

**Details**

Intended for 8' retaining wall mounted sound barrier with junction slab. Show location with quantity block on wall sheets

**Related Items**

**Forms**

**Required** SHTabQuant  
**Recommended** COMP 700-050-03

**Construction**

Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

**PPM Chapter**

**Other**

**Specifications**

5210

**Prep & Doc Manual Chapter(s)**
**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct. 521-7- AA**

**CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM**

A =
1 (F Shape with Sound Barrier Wall 8’ Ht.)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0521 71</td>
<td>CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, F SHAPE WITH SOUND BARRIER WALL, 8’ HEIGHT</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>$427.69</td>
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<table>
<thead>
<tr>
<th>521-8- AA</th>
<th>CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>LF; M1</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Linear Foot; 10th of a Meter</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**

Details

Item to be used in accordance with Standard Indexes. Show location with quantity block in wall plans. Sometimes used with item 521-5- A for traffic railing systems that extend onto bridge.

**Related Items**

**Required**

Forms Design SHTabQuant

Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

**Standards**

Index 420 & 5300-32” F-Shape
Index 425 & 5300-42” F-Shape
Index 423 & 5300-32” Vertical Face
Index 422 & 5300-42” Vertical Face
Index 424 & 5300-Corral With Curb

**Specifications**

**Prep & Doc Manual Chapter(s)**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**TRNS*PORT Category (DRAFT FIELD):** 100 or 200 Structures or Roadway

**Status**

**Struct. 521-8- AA**

**CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB**

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” Vertical Face)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0521 8 1</td>
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<td>0521 8 20</td>
<td>CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, SPECIAL</td>
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<td>1/1/2007</td>
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</table>

**521- 72- AA**  
**SHOULDER CONCRETE BARRIER WALL**

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**: yes

**Notes**

**Details**
Intended for rigid shoulder roadway barriers with 8’-14’ shoulder mounted sound barrier walls and box culvert mounted barriers. Use 521- 1- (2521- 1-) for median wall.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<tbody>
<tr>
<td>Construction</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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<tr>
<td></td>
<td>Index No. 410, 411, 5210, 5211, 5213, 5214, 5215</td>
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**Prep & Doc Manual Chapter(s)**
6, 7, 13
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0521 72 2</td>
<td>SHOULDER CONCRETE BARRIER WALL, BOX CULVERT</td>
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<td>0521 72 3</td>
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<tr>
<td>0521 72 4</td>
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<td>1/1/2007</td>
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<tr>
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<td>$593.97</td>
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</tbody>
</table>
### Topic No. 600-000-002
#### Basis of Estimates

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

### Notes

**Details**
This work normally paid for under Clearing and Grubbing or removal of existing structures. Read standards and specifications carefully before use. to be used for Roadway barrier only. For bridge barrier, refer to Structures Standards.

### Related Items

**Required**  
**Recommended**

**Forms**
- **Design** SHTabQuant  
- **Construction** Refer to Comp Book

**Documentation**
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**  
- **Other**
- **Standards**  
- **Specifications**

**Prep & Doc Manual Chapter(s)** 6, 7, 13

### TRNS*PORT Category (DRAFT FIELD):
100 or 200 Structures or Roadway

### Status

**Struct.** 521-73-  
**CONCRETE BARRIER WALL- REMOVAL**  
**LF**

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<td>CONCRETE BARRIER WALL, REMOVAL</td>
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</table>

### Item 522-1-

**CONCRETE SIDEWALK, 4" THICK**

**Unit** SY; M2  
**Accuracy** Square Yard; Square Meter  
**PlanQuantity?** yes

### Notes

**Details**
Consists of construction of plain or reinforced sidewalk. Includes all materials, foundation preparation, joint forming (or sawing), placing, finishing and curing. Specifically excludes excavation. Sidewalk 6" (0.15 meter) is used in traffic-bearing situations, i.e., driveways. Detectable Warning for sidewalk ramps is incidental to the cost of new sidewalk; for retrofit of ramps, refer to Section 527 of the specifications. Additional details on Index 310. For designs near significant trees, consult with Environmental Management Office.

### Related Items

**Required**  
**Recommended**

**Forms**
- **Design** SHTabQuant  
- **Construction** Refer to Comp Book

**Documentation**
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
### 522-1 - CONCRETE SIDEWALK, 4" THICK

**Unit:** SY; M2  
**Accuracy:** Square Yard; Square Meter  
**PlanQuantity?:** yes

**Notes:**
Refer to pay item 522-1 for details.

**Related Items**
- **Forms**
  - **Required:** Design - SHTabQuant  
  - **Recommended:** Construction - Refer to Comp Book

**Documents**
- **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**References**
- **PPM Chapter**
- **Other**
- **Standards** - Index No. 282, 304, 310
- **Specifications**
- **Prep & Doc Manual Chapter(s)** - 6, 7, 13

---

### 522-2 - CONCRETE SIDEWALK, 6" THICK

**Unit:** SY; M2  
**Accuracy:** Square Yard; Square Meter  
**PlanQuantity?:** yes

**Notes:**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**Related Items**
- **Forms**
  - **Required:** Design - SHTabQuant  
  - **Recommended:** Construction - Refer to Comp Book

**Documents**
- **Design:** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**
- **Other**
- **Standards** - Index No. 282, 304, 310
- **Specifications**
- **Prep & Doc Manual Chapter(s)**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<th>LRE Ref Price</th>
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</thead>
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<td>0522 2</td>
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<td>SY</td>
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</table>
**522- 73- EXPOSED AGGREGATE TOPPING- SIDEWALK**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-01
  - Construction: Refer to Comp Book

**Forms**

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s): 6, 7, 13

**Status**

Inactive Structure

**Struct.** 522- 73-

**EXPOSED AGGREGATE TOPPING- SIDEWALK** SY

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**523- 1- A PATTERNED / TEXTURED PAVEMENT**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

**Details**

Includes placement of a patterned (colored) and/or textured (imprinted, stamped) treatment. Work/materials (coloring, coating, etc.) for treatment included under this item. Underlying asphalt/concrete material paid for separately.

Unit of measure is Plan Quantity, without deductions for trees, manholes, etc, per specification.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-01
  - Construction: Refer to Comp Book

**Forms**

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- PPM Chapter
- Other
- Standards

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 523-1-A PATTERNED / TEXTURED PAVEMENT SY

A = Underlying Pavement Material
1 (Asphalt)
2 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0523 1 1</td>
<td>PATTERNED / TEXTURED PAVEMENT, ASPHALT</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$85.00</td>
</tr>
<tr>
<td>0523 1 2</td>
<td>PATTERNED / TEXTURED PAVEMENT, CONCRETE</td>
<td>SY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$60.62</td>
</tr>
</tbody>
</table>

524-1-A CONCRETE DITCH PAVEMENT- NON-REINFORCED

Unit SY; M2
Accuracy Square Yard; Square Meter
PlanQuantity? yes

Notes

Details
Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric. Refer to Index 281 for additional information.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SBDTPS; SBDitchPvmt</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
</tbody>
</table>

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards
Index No. 281
Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 524-1-A CONCRETE DITCH PAVEMENT- NON-REINFORCED SY

A =
1 (3")
2 (4")

Details and Structure: Items 500 to 599
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0524 1 1</td>
<td>CONCRETE DITCH PAVT, NON REINFORCED, 3”</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$54.84</td>
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<tr>
<td>0524 1 2</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 4”</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$54.96</td>
<td></td>
</tr>
<tr>
<td>0524 1 3</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 5”</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$80.00</td>
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<tr>
<td>0524 1 4</td>
<td>CONCRETE DITCH PAVEMENT, NON REINFORCED, 6”</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$74.15</td>
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<tr>
<td>0524 1 19</td>
<td>CONCRETE DITCH PAVT, 3”, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$54.75</td>
<td></td>
</tr>
<tr>
<td>0524 1 29</td>
<td>CONCRETE DITCH PAVEMENT, 4”, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$69.51</td>
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</tr>
<tr>
<td>0524 1 49</td>
<td>CONCRETE DITCH PAVEMENT, 6”, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$137.06</td>
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</tr>
</tbody>
</table>

524- 1- AB  CONCRETE DITCH PAVEMENT- REINFORCED

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBDTPS; SBDitchPvmt</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
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</tbody>
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Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

References

PPM Chapter

Other

Standards | Index No. 281 |

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 524- 1- AB CONCRETE DITCH PAVEMENT- REINFORCED SY

A =
1 (3”)
2 (4”)

Details and Structure: Items 500 to 599
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 524-2- A CONCRETE SLOPE PAVEMENT (NON-REINFORCED)

**Notes**

**Details**

Intended for non-reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524-1-xxa for details.

**Related Items**

**Required**

Design SHTabQuant

Construction Refer to Comp Book

**Recommended**

Design

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 524-2- A CONCRETE SLOPE PAVEMENT (NON-REINFORCED) SY

A =

1 (3")

2 (4")

3 (5")

4 (6")

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0524 2 1</td>
<td>CONCRETE SLOPE PAVEMENT, NON REINFORCED, 3&quot;</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$78.75</td>
</tr>
<tr>
<td>0524 2 2</td>
<td>CONCRETE SLOPE PAVEMENT, NON REINFORCED, 4&quot;</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$67.39</td>
</tr>
<tr>
<td>0524 2 29</td>
<td>CONCRETE SLOPE PAVEMENT, 4&quot;, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$77.69</td>
</tr>
<tr>
<td>0524 2 49</td>
<td>CONCRETE SLOPE PAVEMENT, 6&quot;, REINFORCED</td>
<td>SY</td>
<td>1/1/2007</td>
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<td></td>
<td>$123.58</td>
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</table>
524- 2- AB  CONCRETE SLOPE PAVEMENT (REINFORCED)

<table>
<thead>
<tr>
<th>Unit</th>
<th>SY; M2</th>
<th>Accuracy</th>
<th>Square Yard; Square Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes
Details
Intended for reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

Related Items
Forms
Recommended
Design  SHTabQuant  COMP 700-050-01
Construction  Refer to Comp Book

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

Status
Struct. 524- 2- AB  CONCRETE SLOPE PAVEMENT (REINFORCED)  SY

A =
1 (3")
2 (4")
3 (5")
4 (6")
B =
9 (Reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

525- 1-  ASPHALTIC CONCRETE CURB

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

Notes
Details
Not intended for temporary or MOT applications. Use in accordance with Index 300.

Related Items
Forms
Required
Design  SHTabQuant  COMP 700-050-02
Construction  Refer to Comp Book

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
### References
- **PPM Chapter**
- **Other**
- **Standards** Index 300
- **Specifications**

<table>
<thead>
<tr>
<th>Prep &amp; Doc Manual Chapter(s)</th>
<th>6, 7, 13</th>
</tr>
</thead>
</table>

### TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

### Status
- **Struct.** 525-1-
- **ASPHALTIC CONCRETE CURB** LF

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0525</td>
<td>CURB ASPHALTIC CONC</td>
<td>LF</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$26.00</td>
</tr>
</tbody>
</table>

### 526-1-A PAVERS, ARCHITECTURAL

| Unit | SY; M2 | Accuracy | Square Yard; Square Meter | PlanQuantity? | no |

### Notes

**Details**
- Used for roadway and/or sidewalk applications.
- For Patterned/Textured pavement (asphalt or concrete), use 523 items.

### Related Items

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: COMP 700-050-01
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

<table>
<thead>
<tr>
<th>Prep &amp; Doc Manual Chapter(s)</th>
<th>6, 7, 13</th>
</tr>
</thead>
</table>

### TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

### Status
- **Struct.** 526-1-
- **PAVERS, ARCHITECTURAL** SY

A =
1 (Roadway)
2 (Sidewalk)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

Details and Structure: Items 500 to 599
527- 1- DETECTABLE WARNING ON WALKING SURFACE- RETROFIT

Unit EA Accuracy Each PlanQuantity? no

Notes
This pay item is to be used for applied device on existing ramps only (RETROFIT for previous projects), used in coordination with Index 304. For new installations (ramps constructed under this project/proposal), use index 304; cost of detectable warning for new installations is included in the cost of the sidewalk. Refer to specifications for a complete description of product.

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Specifications Index 304

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 527- 1- DETECTABLE WARNING ON WALKING SURFACE- RETROFIT

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item Description Unit TSP/Detail Valid Date Obsolete Date LRE Ref Price
0527 1 DETECTABLE WARNING ON WALKING SURFACE, RETROFIT EA 1/1/2007 $598.06

530- 1- RIPRAP- SAND - CEMENT

Unit CY; M3 Accuracy 10th of a Cubic Yard; 10th PlanQuantity? no
of a Cubic Meter

Notes
This item entails the use of sand-cement bags to construct endwalls, provide fill slope protection, and/or provide ditch bottom and ditch slope protection. To be used in accordance with Design Standards.

FINAL:
Record and show how quantity was arrived at on tabulation form 700-050-56. If sand-cement is proportioned by volume, the sand shall be measured loose in an approved
measure prior to mixing with cement. If proportioned by weight, approved scales shall be used for this purpose and the volume shall be calculated using a standard conversion factor for sand of 85 lb/ft³ (1360 kg/m³).

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-04</td>
</tr>
<tr>
<td></td>
<td>700-050-56</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

| Standards     | Index 258 or 268 |
| Specifications |                |

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0530-1</td>
<td>RIPRAP, SAND-CEMENT</td>
<td>CY</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$453.78</td>
<td></td>
</tr>
</tbody>
</table>

#### 530-3- A RIPRAP- RUBBLE

**Unit**: TN; MT  
**Accuracy**: 10th of a Ton; 10th of a Metric Ton  
**PlanQuantity?**: no

### Details

- to be used for bank and shore, bridge abutment, ditch, and outlet structure protection.  
- Refer to Drainage Manual for design criteria. Gradation is given in the specifications.  
- Design quantity is based on the following: \( W = \text{Vol.s} \times \text{S.G.} \times Ww \times Vf \)  
  - \( W \) = Weight of Stone  
  - \( \text{Vol.s} \) = Volume of Stone  
  - \( \text{S.G.} \) = Specific Gravity  
  - =2.3 for Bank & Shore Protection  
  - =1.9 for Ditch Lining  
  - \( Ww = 62.4 \text{ lb/ft}^3 \) (1 MT/M3) Weight of Water  
  - \( Vf = .90 \) (Void Factor)  
- NOTE: remember to convert weight (LB) to (TN) for unit of measure & payment.  
- Final measure, per specifications, will be by railroad scales, truck scales, or barge displacement.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-06</td>
</tr>
<tr>
<td></td>
<td>700-050-56</td>
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<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
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</table>
### 530-73- A

**RIPRAP- RUBBLE**

<table>
<thead>
<tr>
<th>Unit</th>
<th>TN; MT</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10th of a Ton; 10th of a Metric Ton</td>
<td>no</td>
<td>Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).</td>
</tr>
</tbody>
</table>

**Struct. 530-73- A**

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 13

---

### 530-74- BEDDING STONE

<table>
<thead>
<tr>
<th>Unit</th>
<th>TN; MT</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>10th of a Ton; 10th of a Metric Ton</td>
<td>no</td>
<td>Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).</td>
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**Struct. 530-74-**

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

---

### Note

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0530 3 3</td>
<td>RIPRAP, RUBBLE, BANK AND SHORE</td>
<td>TN</td>
<td>1/1/2007</td>
<td></td>
<td>$97.05</td>
<td></td>
</tr>
<tr>
<td>0530 3 4</td>
<td>RIPRAP, RUBBLE, F&amp;I, DITCH LINING</td>
<td>TN</td>
<td>1/1/2007</td>
<td></td>
<td>$115.70</td>
<td></td>
</tr>
</tbody>
</table>

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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Basis of Estimates

#### Topic No. 600-000-002

<table>
<thead>
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<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0530 74</td>
<td>BEDDING STONE</td>
<td>TN</td>
<td>1/1/2007</td>
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<td>$93.83</td>
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</table>

#### 530-76- A GABION MAT

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
<td>Standards under development; contact the State Drainage Office for assistance.</td>
</tr>
</tbody>
</table>

#### Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>COMP 700-050-01</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
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</table>

#### References

PPM Chapter
Other Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

#### Status

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

**Struct.** 530-76- A GABION MAT SY

A = Thickness
1 (6" Thick)
2 (9" Thick)
3 (18")
4 (12")

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0530 76 2</td>
<td>GABION MAT, 9&quot; THICK</td>
<td>SY</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$180.00</td>
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<td>GABION MAT, 12&quot; THICK</td>
<td>SY</td>
<td>T</td>
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#### 530-77- A GABION BASKET

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<th>Notes</th>
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<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
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Details and Structure: Items 500 to 599

Page 48 of 81
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
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<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<th>Documentation</th>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tr>
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</table>

### Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

- 6, 7, 13

---

### TRNS*PORT Category (DRAFT FIELD):

- 0200 Roadway

---

### Status

#### Struct.

- 530- 77- A
- GABION BASKET SY

A =
1 (12" Thick)
2 (36" Thick)
3 (30" Thick)
4 (18" Thick)

### Notes

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 530- 78-

#### RIPRAP- ARTICULATING BLOCK

<table>
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<th>Unit</th>
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<td>Square Yard; Square Meter</td>
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</table>

### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-01</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tr>
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</table>
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status  Inactive Structure

Struct.  530-78-  RIPRAP- ARTICULATING BLOCK SY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<tbody>
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<td>0530 78</td>
<td>RIPRAP- ARTICULATING BLOCK SY</td>
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<td>T</td>
<td>1/1/2007</td>
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<td>$398.70</td>
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</table>

534-72-1AA  SOUND BARRIERS- INCLUDING FOUNDATION

Unit  SF; M2  Accuracy  Square Foot; 10th of a Square Meter  Plan Quantity?  yes

Notes

Details

To be used for panel-type sound barrier (wall) construction. Refer to standards for details. Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information. Special details must be included in the plans.

NOTE: Sound barriers to be placed on bridges or MSE wall sections are not covered by the new standards or this pay item. Sound barriers in these locations have separate standards and pay items. See 521-5, 521-7, and 521-72 for shoulder mounted sound barriers.

Related Items

Required  Recommended

Forms  Design  SHTabQuant  COMP 700-050-01

Construction  Refer to Comp Book

Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction  Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References  PPM Chapter  Chapter 32

Other  Standards  Index No. 5200 to 5206

Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0200  Roadway

Status

Struct.  534-72-1AA  SOUND BARRIERS- INCLUDING FOUNDATION SF

A=
01 (Permanent)
02 (Temporary)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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<td>0534 72102</td>
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<td>$25.00</td>
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---

### 534-73- PERIMETER WALL

**Unit**: SF; M2  
**Accuracy**: Square Foot; 10th of a Square Meter  
**Plan Quantity?**: yes

**Notes**: PENDING... Expected implementation January 2009 letting.

**Details**:  
To be used for perimeter wall construction, in accordance with Index 5250. Refer to standards for details.

Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information.

NOTE: There is currently no specific criteria specifying when perimeter walls are justified. This will be a project by project decision based on project demands and resolved by the District.

**Related Items**

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

| Design     | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

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<th>PPM Chapter</th>
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<tr>
<td>Other Standards</td>
<td>Index No. 5250</td>
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**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

---

### 536-1-AA GUARDRAIL

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: yes

**Notes**: Consists of the construction of metal guardrail on posts of timber or steel as specified.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Panels are 12.5' (3.810 meters) in length. The plan length of a run of guardrail should normally be determined as a multiple of the nominal panel lengths.

When attaching guardrail to a new or widened bridge railing, the guardrail (including transition and thrie beam panels) is paid for under item 536-1- (2536-1-). The cost of connecting the guardrail to the bridge railing is included in the cost of the guardrail.

When connecting guardrail to an existing bridge railing or to vertical face rail retrofits, the guardrail (including transition and thrie beam panels) is paid for under the item 536-1- (2536-1-) and item 536-8 is included for the cost of connecting the guardrail to the existing bridge railing.

Other situations should be noted in the plans.

Pipe rail/pedestrian safety treatment is to be included in the cost of the guardrail, as indicated on standards. Document locations on summary table. Refer to PPM Vol 2, Chapter 7 for details.

Related Items

<table>
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<tr>
<th>Required</th>
<th>339-1 (2339-1)</th>
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<tr>
<td>Recommended</td>
<td>536-7 and 536-8 (2536-7, 2536-8)</td>
</tr>
</tbody>
</table>

Forms

Design: SBGDLR; SGBguardrail
Construction: COMP 700-050-03

Document Design: Refer to Comp Book

Documentation Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter
Other
Standards: Index No. 400, 402
Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

Status

Struct. 536-1- AA GUARDRAIL LF

A =
1 (Roadway)
2 (Bridge)
3 (Roadway, Double Face)
4 (Bridge, Double Face)
5 (Roadway, Thrie Beam)
6 (Bridge, Thrie Beam)
8 (Roadway, With Rub Rail)
9 (Roadway, Thrie Beam, Double Face)
10 (Roadway, Weathering Steel)
11 (Roadway, Modified Thrie Beam)
12 (Roadway, Modified Thrie Beam, Double Face)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002
**Basis of Estimates**

2009 Edition  
October 6, 2008

<table>
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</table>

### 536- 2- GUARDRAIL - SHOP BENT PANELS

| Unit | LF; M1 | Accuracy | Linear Foot; 10th of a Meter | PlanQuantity? | yes |

**Notes**

- When this item is used, item 339- 1 must be used.

**Related Items**

**Forms**

- **Design**: SBGDRL; SBGuardrail
- **Construction**: COMP 700-050-03

**Documentation**

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**: Design
- **Other**: Construction
- **Standards**: Index No. 400
- **Specifications**: Refer to Comp Book

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

### Status

- **Struct.**: 536- 2- GUARDRAIL - SHOP BENT PANELS LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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Details and Structure: Items 500 to 599
GUARDRAIL POST, SPECIAL

536- 7-  

Unit | EA | Accuracy | Each | PlanQuantity? | no

Notes

Details

Used when culvert, pier footing or other concrete structure precludes normal post installation and special fabrication is required. Specifically excludes posts for double-faced median guardrail. When this item is used, item 536-1-xxa (2536-1-xxa) must be used.

Related Items

Required | Recommended
Design | SBGDRL; SGBGuardrail | COMP 700-050-03
Construction | Refer to Comp Book

Documentation

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards | Index No. 400
Specifications

Prep & Doc Manual Chapter(s) | 7, 13

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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</tbody>
</table>

GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY

536- 8- A  

Unit | EA | Accuracy | Each | PlanQuantity? | no

Notes

Details

Used when connecting guardrail to an existing bridge. Includes furnishing and installing special end shoes, wood blocks or concrete wedges, concrete posts and necessary hardware. When this item is used, item 536-1 (2536-1) must be used. Remove: Plans or specs to indicate disposal or salvage instruction.

Related Items

Required | Recommended
Design | SBGDRL; SGBGuardrail | COMP 700-050-03
Construction | Refer to Comp Book

Documentation

Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards | Index No. 400
Specifications

Prep & Doc Manual Chapter(s) | 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. | 536- 7- | GUARDRAIL POST, SPECIAL | EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 536-8- A GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY EA

A = Operation
Blank (Furnish & Install)
1 (Install)
2 (Furnish)
3 (Relocate)
6 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tr>
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<td>GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY (FURNISH &amp; INSTALL)</td>
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<tr>
<td>0536 8 6</td>
<td>GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, REMOVE</td>
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</tbody>
</table>

536-73- GUARDRAIL REMOVAL

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes

Details

For single run, double face guardrail: measurement and payment are based on the single run length. Refer to specification for details.

Related Items

Required Recommended
Forms Design SBGDRL; SBGuardrail COMP 700-050-03
Construction Design Refer to Comp Book
Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards Index No. 400
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 536-73- GUARDRAIL REMOVAL LF

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>Notes</th>
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<tbody>
<tr>
<td>536- 76-</td>
<td>GUARDRAIL POSTS- SPECIAL LENGTH</td>
<td>EA</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Unit</td>
<td>EA</td>
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<tr>
<td></td>
<td>Accuracy</td>
<td>Each</td>
<td></td>
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</tr>
</tbody>
</table>

**Notes**

To be used only as detailed on index 400, for Special Length guardrail posts.

**Related Items**

- **Required**
- **Recommended**

**Forms**

- **Design**: SBGDRL; SGuardrail  
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 400
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**

- **Struct**: 536- 76- GUARDRAIL POSTS- SPECIAL LENGTH EA

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>0536 76</td>
<td>GUARDRAIL POST - SPECIAL LENGTH</td>
<td>EA</td>
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<td>1/1/2007</td>
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<th>Notes</th>
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<tbody>
<tr>
<td>536- 82-</td>
<td>GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL</td>
<td>EA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Independent stand alone anchorage to be used between guardrail and a fixed structure.

**Related Items**

- **Required**
- **Recommended**

**Forms**

- **Design**: SBGDRL; SGuardrail  
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 400, 410, 413, 415

---

Details and Structure: Items 500 to 599
Specifications

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 536- 82- GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0536 82</td>
<td>GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL</td>
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</table>

**536- 83- A GUARDRAIL POST REPLACEMENT**

**Notes**

**Details**

**Related Items**

<table>
<thead>
<tr>
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<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SBGuardrail</td>
</tr>
</tbody>
</table>

**Forms**

**Construction**

Refer to Comp Book

**Document**

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards Index No. 400

Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 536- 83- A GUARDRAIL POST REPLACEMENT EA

A =

1 (Regular)
2 (Special)
3 (Steel In Concrete, Regular)
4 (Steel In Asphalt, Regular)
5 (Steel In Soil, Regular)
6 (Wooden In Asphalt, Regular)
7 (Wooden In Soil, Regular)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Topic No. 600-000-002

#### Basis of Estimates

**2009 Edition**  
**October 6, 2008**

<table>
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<tr>
<th>Item</th>
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<tr>
<td>0536 83 1</td>
<td>GUARDRAIL POST REPLACEMENT, REGULAR</td>
<td>EA</td>
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<tbody>
<tr>
<td>536-85-AA</td>
<td>GUARDRAIL END ANCHORAGE ASSEMBLY</td>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes

- **Details**: Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.

#### Related Items

- **Required**: 536-1
- **Recommended**: 536-85-AA

#### Forms

- **Design**: SBGDRL; SBGuardrail
- **Construction**: COMP 700-050-03

#### Documentation

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### Standards

- **Index No. 400**

#### Specifications

- **PPM Chapter**
- **Other**
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

#### TRNS*PORT Category (DRAFT FIELD):

- 0200  
  - Roadway

#### Status

**Struct.** 536-85-AA  
**GUARDRAIL END ANCHORAGE ASSEMBLY**  
**EA**

**AA =**
- 22 (Flared)
- 24 (Parallel)
- 25 (Type II)
- 26 (Type CRT)
- 27 (Double Face Terminal)

#### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>GUARDRAIL END ANCHORAGE ASSEMBLY- PARALLEL</td>
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<tr>
<td>0536 85 25</td>
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<td>0536 85 26</td>
<td>GUARDRAIL END ANCHORAGE ASSEMBLY- TYPE CRT</td>
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<td>0536 85 27</td>
<td>GUARDRAIL END ANCHORAGE ASSEMBLY- DOUBLE FACE TERMINAL</td>
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<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>538-1-</td>
<td>GUARDRAIL- RESET</td>
<td>LF; M1</td>
<td>Linear Foot; 10th of a</td>
<td>no</td>
</tr>
</tbody>
</table>

**Details and Structure: Items 500 to 599**
Consists of the removal of existing guardrail and resetting of the salvaged guardrail along with necessary new materials. Locations of the existing and proposed guardrail must be shown in the plans. Coordinate the use of this item with District Maintenance Office. Refer to Section 3 of this Handbook for recommended pay item plan note. When this item is used, Item 339-1 (2339-1) must be used.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBGDRL; SGuardrail</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<tbody>
<tr>
<td>0538 1</td>
<td>GUARDRAIL RESET</td>
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</table>

### Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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<td></td>
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### Related Items

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<thead>
<tr>
<th>Required</th>
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<td>Design</td>
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</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### Notes

Prep & Doc Manual Chapter(s) 7, 13
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

Status  Inactive Structure

Struct.  539-75-ABC  GLARE SCREEN  LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00
6 (Relocate) BC=00

B = Material
1 (Modular)

C = Height
1 (18")
2 (24")
3 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<tbody>
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<td>GLARE SCREEN, F&amp;I, MODULAR, 24&quot;</td>
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<tr>
<td>0539 75113</td>
<td>GLARE SCREEN, F&amp;I, MODULAR, 30&quot;</td>
<td>LF</td>
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<td>$26.80</td>
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</table>

539-80-ABC  OPAQUE VISUAL BARRIER

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter  PlanQuantity?  no

Notes

Details

Related Items

Forms

Required  Design  SHTabQuant

Recommended  Construction  COMP 700-050-03

Documentation

Required  Design  Refer to Comp Book

Recommended  Construction  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards  Index No. 461

Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

Status
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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<td>0539 80111</td>
<td>OPAQUE VISUAL BARRIER, F&amp;I, CONCRETE, 2'3&quot; HT</td>
<td>LF</td>
<td>1/1/2007</td>
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### 540-
**HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS**

<table>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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</tbody>
</table>

**Notes**
Future item; refer to developmental item 904-540-xx1

**Details**

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
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**Documentation**

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**References**

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<th>Standards</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td></td>
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</tr>
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</table>

**TRNS*PORT Category (DRAFT FIELD):**

0200  Roadway

**Status**

**Struct.**

540-

**HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS**

pending

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 542- 70-
**BUMPER GUARDS, CONCRETE**

Details and Structure: Items 500 to 599
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Notes**

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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</table>

**Related Items**

**Required**

- **Design**
  - SHTabQuant

**Recommended**

- **Construction**
  - COMP 700-050-03

**Forms**

- **Design**
  - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**

- **Other**

- **Standards**
  - Index No. 300

- **Specifications**

- **Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.** 542-70-

**BUMPER GUARDS, CONCRETE**

**EA**

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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---

**544-74- AA**

**RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Items to be installed in accordance with Standards and/or manufacturer's instructions.

**Related Items**

**Required**

- **Design**
  - SHTabQuant

**Recommended**

- **Construction**
  - COMP 700-050-03

**Forms**

- **Design**
  - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**

- **Other**

- **Standards**
  - Index No. 432, 433, 434, 435, 436, 438

- **Specifications**

- **Prep & Doc Manual Chapter(s)** 7, 13

---

Details and Structure: Items 500 to 599
**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct. 544-74- AA RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION**

AA =
8 (Cat)
9 (Brakemaster)
10 (Dragnet)
13 (React 350)
14 (Quadgard)
17-20 Hold
23 (SCI)
24 (Quest)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>LRE Ref Price</th>
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<td>0544 74 14</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD</td>
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<td>0544 74 23</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, SCI</td>
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<td>$4,000.00</td>
</tr>
<tr>
<td>0544 74 24</td>
<td>RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUEST</td>
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**544-75- AA CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR**

<table>
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<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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</table>

**Notes**

Refer to Plans Preparation Manual and Design Standards prior to selecting a specific option. Items are to be installed in accordance with Standards and/or manufacturer's instructions. All items must be listed on QPL, per specifications.

**Related Items**

<table>
<thead>
<tr>
<th>Required Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
</tr>
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<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
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<td>Specifications</td>
</tr>
<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
</tr>
</tbody>
</table>
Struct.  544- 75- AA  CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR EA

\[ \text{AA = } \]
8 (Cat)*
9 (Brakemaster)*
10 (Dragnet)*
13 (React 350)*
14 (Quadguard)*
16 (Tracc)*
17 (QuadGuard Elite)*
18 (QuadGuard LMC)*
19 (QuadGuard LMA)*
20 (QuadTrend)*
21 (TAU-II)*
22 (Widetracc)*
23 (SCI)*
24 (Quest)*
40 (Optional)

Notes  *AA=40 (Optional) should be used, unless there is a specific reason why options are limited to a single product.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0544 75 13</td>
<td>CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, REACT 350</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>0544 75 14</td>
<td>CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD</td>
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<td>1/1/2007</td>
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<td>0544 75 21</td>
<td>IMPACT ATTENUATOR VEHICULAR, TAU-II</td>
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<td>1/1/2007</td>
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<td>0544 75 23</td>
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<td>EA</td>
<td>1/1/2007</td>
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<td></td>
<td>$25,000.00</td>
</tr>
<tr>
<td>0544 75 24</td>
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544- 76- ATTENUATOR MODULES- SAND FILLED

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<tr>
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<td>no</td>
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Notes

Related Items

Forms

Design  SHTabQuant
Construction  COMP 700-050-03

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.  544-76- ATTENUATOR MODULES- SAND FILLED EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 546-71- RUMBLE STRIP SETS

| Unit | PS | Accuracy | Per Set | PlanQuantity? | no |

Notes

Raised rumble strip SETS shall be constructed at all structures with less than full width shoulders. They will also be constructed at intersection approaches only when specified in the plans. This item is to be used in accordance with Standard Index 518.

Note that thermoplastic sets typically include 4 strips; Asphalt sets include 6 strips. Refer to Index for details.

For ground-in strips, refer to item 546-72-AB.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
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<tr>
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<td>COMP 700-050-03</td>
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<td>Design</td>
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TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.  546-71- RUMBLE STRIP SETS PS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0546 71</td>
<td>RUMBLE STRIPS</td>
<td>PS</td>
<td>TSP</td>
<td>1/1/2007</td>
<td>Obsolete Date</td>
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### 546-72- AB RUMBLE STRIPS

| Unit | PM; KM | Accuracy | 10th of a Mile; Kilometer | PlanQuantity? | yes |

Notes

Details and Structure: Items 500 to 599
Ground-in rumble strips (16" minimum width, 400 mm minimum width) shall be constructed on freeway and other limited access per Index No. 518. Other methods and types of applications shall not be used unless approved in writing by the State Roadway Design Engineer. Approval will be considered only with sufficient documented justification for variance from this standard.

For Raised Rumble Strips, refer to item 546-71-.

Measurement, per specification: The quantity of will be the plan quantity in miles, constructed and accepted. The plan quantity will be determined based on the roadway length minus bridge lengths for each shoulder on which Rumble Strips are to be constructed.

Per specifications, plan quantity will be determined based on the roadway length, minus bridge lengths for each shoulder on which Rumble Strips are to be constructed. (No deduction is made for skip section of skip array.)

### Related Items

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<thead>
<tr>
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<th>Recommended</th>
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<tr>
<td>Design</td>
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<tr>
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<td>Specifications</td>
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<td>Index No. 518</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 546-72-AB RUMBLE STRIPS PM; KM

- A = Type
- 5 (Ground-In)
- B =
- 1 (16" Min. Width)
- 0 (Non Standard)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Obsolete Date</th>
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<td>0546 72 50</td>
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**547-70- A RIPRAP, FABRIC-FORMED CONCRETE**

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<tr>
<td>SY; M2</td>
<td>Square Yard; Square Meter</td>
<td>no</td>
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### Notes

Details and Structure: Items 500 to 599
Details


For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tr>
<td>Forms</td>
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<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
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<td>Construction</td>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 547-70- A RIPRAP, FABRIC-FORMED CONCRETE SY

A =
1 (8" Filter Points)
2 (10" Filter Points)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>RIPRAP FABRIC-FORMED CONCRETE, 8&quot; FILTER POINTS</td>
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<td>0547 70 2</td>
<td>RIPRAP FABRIC-FORMED CONCRETE, 10&quot; FILTER POINTS</td>
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<td>1/1/2007</td>
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548- AA-  RETAINING WALL SYSTEM

Unit SF; M2
Accuracy Square Foot; 10th of a Square Meter
PlanQuantity? yes

Notes

Approved walls are listed on the Qualified Products List (QPL).

NOTE: Include item in TRNS*PORT Roadway Category.

Pay area based on area bounded by coping line, top of leveling pad, begin and end of wall. Barriers and parapets paid for separately (Items 521-8 and 521-6.)

For Cast-in-Place walls, refer to design standards and use Concrete (CY) and Reinforcing Steel (LB) items.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
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<td></td>
<td>521-6-xaa, or 521-8-xaa</td>
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<td></td>
<td>Other</td>
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</tbody>
</table>
## Forms

**Design**
SHTabQuant

**Construction**
Refer to Comp Book

## Documentation

**Design**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

## References

**PPM Chapter**
Chapter 30

**Other**

**Specifications**

Index 5300, 5301

**Prep & Doc Manual Chapter(s)**
6, 7, 13

### TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

### Status

**Struct.** 548- AA-

**RETAILING WALL SYSTEM** SF

AA = Type
12 (Permanent) excluding barrier
13 (Temporary) excluding barrier
14 (Permanent- Widening) attached to existing wall

## Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<td>0548 12</td>
<td>RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER</td>
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</table>

### 550-10-ABC  FENCING

**Unit** LF; M1

**Accuracy** Linear Foot; 10th of a Meter

**PlanQuantity?** no

## Notes

Includes all fence, posts, and incidental materials. Gates to be paid under 550-60-ABC. Type 9 (Special) to be used for decorative fencing, other than A, B, or R. Tech Spec and/or plan details required to specify materials, installation, and payment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

## Related Items

**Required**

**Recommended**
550-60-ABC

## Forms

**Design**
SBFN; SBFence; SBFNTA; COMP 700-050-03
**Construction**
Refer to Comp Book

**Documentation**
Refer to Comp Book

**Design**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other

**Standards**
Indexes 800, 801, 802, 803, 810, 811, 812

**Specifications**
*Selected Items may require Tech Spec and/or Plan Detail*

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

---

**Status**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**Struct.** 550-10-ABC  FENCING  LF

A = Type
1 (Type A)
2 (Type B)
3 (Type R)
9 (Special) Not Type A, B, or R; C= 8 or 9

B = Nominal Fabric Height
1 (0.0-5.0' Height) Note: Type A Standard; may be used for other types
2 (5.1-6.0' Height) Note: Type B Standard; may be used for other types
3 (6.1-7.0' Height)
4 (7.1-8.0' Height)
5 (8.1-10.0' Height)

C = Details/Features
0 (Standard features) No coating, barbed wire, or other special features
1 (w/Barbed Wire Attachment), Type B Only
2 (w/Vinyl Coating), Type B Only
3 (Full Enclosure), Type R Only
4 (Partial Enclosure), Type R Only
5 (Vertical) Type R Only
8 (Reset Existing)
9 (Special Feature) Features), other than coating, barbs, or enclosure

**Notes**
*A= Special for non-standard types (wood fence?)
*B= Special for other than coatings or enclosure
*A or B =9 may require Tech Spec and/or Plan Detail

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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Details and Structure: Items 500 to 599
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</table>
550-60-ABC  FENCE GATE

| Unit  | EA       | Accuracy | Each | PlanQuantity? | no |

Notes

Details

Fence to be installed in accordance with standards, Index Nos. 800-812. Special: Tech Spec and/or plan details required to specify materials, installation, and payment. Do not use "special" item for type A, B, or R fencing.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required       Recommended 550-10-ABC

Forms

Design    SBFN; SBFence; SBFNTA; COMP 700-050-03

Construction    Refer to Comp Book

Documentation

Design    Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction    Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards    Indexes 800, 801, 802, 803, 810, 811, 812

Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0200    Roadway

Status

Struct.  550-60-ABC  FENCE GATE    EA

A = Type
1 (Type A)
2 (Type B)
9 (Special) *Not Type A or B

B = Type
1 (Single)
2 (Double)
3 (Sliding / Cantilever)

C = Size of Opening
1 (0-6.0' Opening)
2 (6.1-12.0' Opening)
3 (12.1-18.0' Opening)
4 (18.1-20.0' Opening)
5 (20.1-24.0' Opening)
6 (24.1-30.0' Opening)
7 (Greater than 30' Opening)

Notes

* Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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Topic No. 600-000-002
Basis of Estimates
2009 Edition
October 6, 2008

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555-1- A DIRECTIONAL BORE

Unit LF; M1
Accuracy Linear Foot; 10th of a Meter
Plan Quantity? no

Notes
Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

Per Specification, Bundled products in a single bore will be paid as a single bore, based on the required drill bit head or back reamer head size. Separate payment shall not be made for individual products in a bundle.

Required Recommended
556-1-xaa, 557-1-xxa

Related Items
Forms
Design SHTabQuant
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct. 555-1- A DIRECTIONAL BORE LF

A = Diameter Of Pipe/Conduit*
1 (Less Than 6")
2 (6" to <12")
3 (12" to <18")
4 (18" to <24")
5 (24" to <36")
6 (36" to <48")
7 (48" to <60")

Notes
Additional Ranges At 12" Increments
*Refer to detail information when working with bundled products

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Item Description

<table>
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#### Notes

**Details**

Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

**Related Items**

- **Required**: 556-1-xaa, 557-1-xxx
- **Recommended**: 556-1-xaa, 557-1-xxx

**Forms**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 7, 13

**Struct. 556-1-A JACK AND BORE LF**

\[
AA = \text{Diameter Of Casing} \\
1 ( <6") \\
2 ( 6" to < 12") \\
3 ( 12" to < 18") \\
4 ( 18" to < 24") \\
5 ( 24" to < 36") \\
6 ( 36" to < 48") \\
7 ( 48" to < 60") \\
8 ( 60" to < 72") \\
9 ( 72" to < 84") \\
10 ( 84" to < 96") \\
11 ( 96" to < 108")
\]

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
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<tr>
<th>Item</th>
<th>Description</th>
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557-1-A VIBRATORY PLOWING

**Unit** LF; M1  
**Accuracy** Linear Foot; 10th of a Meter  
**PlanQuantity?** no

**Notes**
Effective January 03: Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

**Related Items**

**Required**  
Design: SHTabQuant  
Construction: Refer to Comp Book

**Recommended**  
556-1-xxa, 557-1-xxa

**Forms**

**Documentation**

**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter  
Other Standards Specifications  
Prep & Doc Manual Chapter(s) 7, 13
560-1 PAINTING STRUCTURAL STEEL- REHAB

Unit: LS/TN; LS/MT  Accuracy: Lump Sum (Ton); Lump Sum (Metric Ton)  PlanQuantity?: yes

Notes

Details

Intended for rehabilitation projects. For new bridges, the cost of painting is included in the cost of the structural steel. Do not include quantities in the plans. The weight of the steel to be painted is for estimating purposes only.

Related Items

Required: SHTabQuantLS  Recommended: COMP 700-050-05

Forms

Design: Refer to Comp Book  Construction: Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s): 6, 7, 13

563- A ANTI-GRAFFITI COATING

Unit: SF; M2  Accuracy: Square Foot; 10th of a Square Meter  PlanQuantity?: yes

Notes

Pending specification change for July 2008: Measurement to be made by plan quantity.
Coordinate the use of this item with District Maintenance Office. Consists of furnishing and applying anti-graffiti coating to the surfaces indicated in the plans. The work also includes surface preparations prior to application of the coating. All coatings are to be clear, unless otherwise specified in the plans, or approved by the Engineer. Pay Item specifies whether material is sacrificial or non-sacrificial.

Measurement is based on the projected area of the wall (height x length) or surface, with no additional allowance for surface texture.

For projects let before 7/2008, measurement/payment will be based on measured area, as indicated above.

For projects let 7/2008 and later, measurement will be based on plan quantity, as indicated above.

### Related Items

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<th>Required Forms</th>
<th>Required</th>
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<td>Construction</td>
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### Documentation

**Design**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**
- Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

### References

**PPM Chapter**
- Design
- Construction

**Other Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**
- 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**

100 or 200 Structures or Roadway

### Status

**Struct.**

563- A ANTI-GRAFFITI COATING SF

A =
- 3 (Sacrificial)
- 4 (Non – Sacrificial)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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### 570- 1- A PERFORMANCE TURF

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### Notes

Effective January 2007 letting. Replaces several 570 items.

### Details

Consists of establishing a stand of grass on slopes, shoulders, or other areas by seeding (includes seeding, seeding & mulching, hydroseeding, bonded fiber matrix, or any combination), or sodding, in accordance with Section 570.

Coordinate the use of this item with Sections 104 and 580.
This item includes the mowing of all areas, including undisturbed areas, within the project limits, as noted in the plans. DO NOT use item 104-4 when this item is used. Payment for all mowing is incidental to the turf payment.

Per Section 570 specification, the Statewide Disputes Review Board specifications must be included on projects with this item.

### Related Items

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### Documentation

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### References

PPM Chapter

### Related Items

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### Notes

- **Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**
- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

### Related Items

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### Notes

- **Geosynthetic rolled erosion control product that retains soil, moisture, and seed; promotes vegetative growth while preventing erosion in ditches, channels, and spillways. to be used where conditions prevent vegetation that lasts past a single growing season.**

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**580- 1- A** LANDSCAPE COMPLETE

**Unit** LS/LS  **Accuracy** Lump Sum  **PlanQuantity?** yes

**Notes**

This item is for the complete installation of plants, in accordance with Specification Section 580, including all incidental work. Mowing included as part of the landscape work will be identified in the contract documents. If mowing is required outside of the landscape areas, use pay item 104-4, unless 570-1-A is included.

Small plants are defined as:
- all ground covers, shrubs to less than 7 gallon, trees to less than 7 gallon, palms clustering type less than 6 foot overall height, cycads to less than 7 gallon

Large plants are defined as:
- shrubs 7 gallon or greater, trees 7 gallon or greater, all palms single trunk, palms clustering type 6 foot overall height and greater, cycads 7 gallon or greater, all Sabal palms (aka Sabal palmetto, cabbage palm, state tree)

Refer to the latest edition of the Florida Grades and Standards for Nursery Plants for classification. All plants must be detailed in the plans in accordance with Volume 2, Chapter 26 of the PPM.

The computation book will use form 70-050-05 Lump Sum Quantities. On the form, refer to the plans tabulation sheet for calculations; do not repeat tabulation sheet information on the form.

All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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590- 70- IRRIGATION SYSTEM

Unit LS/LS  Accuracy Lump Sum  PlanQuantity? yes

Details

All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
**References**

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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0600  Landscaping

**Status**

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**Notes**

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Chapter 16

Items 600 to 699
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604- 1- AB  SIGNALS- DATA COLLECTION

Unit      LO; EA      Accuracy     Per Location; Each   Plan Quantity?  no

Notes
Details
This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Required  Recommended
Forms
Design SHTabQuant  COMP 700-050-03

Construction Refer to Comp Book

Documentation Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0500  Signalization

Status
Struct.  604- 1- AB  SIGNALS- DATA COLLECTION  LO; EA

A = Type Of Location
1 (Intersection)
2 (Mid-Block)

B = Type Of Count
1 (Turning Movement)
2 (Approach)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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604- 2-AAB  ANALYSIS & DOCUMENTATION- INTERSECTION

Unit      PA; EA      Accuracy     Per Analysis; Each   Plan Quantity?  no

Notes
Details
This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
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### Related Items

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### Plan Detail and/or Tech Spec Required

| Prep & Doc Manual Chapter(s) | 7, 13 |

### TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

### Status

**Struct. 604-2-AAB ANALYSIS & DOCUMENTATION- INTERSECTION PA; EA**

AA = (Number Of Intersections)

B = (Number Of Timing Patterns)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Notes

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### Other

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**Details and Structure: Items 600 to 699**
Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 604-3- A TIMING IMPLEMENTATION PI

A = Controller Type
1 (Controller)
2 (Controller And Coordination Unit)
3 (Master Clock Unit)

Notes

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604-4- INTERSECTION ANALYSIS & DOCUMENTATION

Notes

Details

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For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required
Design
SHTabQuant
Construction
Refer to Comp Book

Recommended
Design
COMP 700-050-03
Construction

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Details and Structure: Items 600 to 699
### Notes

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#### 604- 5- A ARTERIAL ANALYSIS & DOCUMENTATION

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**References**

PPM Chapter

Other

Standards

Specifications

**Prep & Doc Manual Chapter(s)**

6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0500 Signalization

### Status

**Struct.** 604- 5- A

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### 630- 1- AB SIGNALS- CONDUIT

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<th>Linear Foot; 10th of a</th>
<th>PlanQuantity?</th>
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Details and Structure: Items 600 to 699
**Notes**

**Details**

This pay item is for traffic signals and traffic control devices only. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as 'Underground.' 'Underpavement' should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. EXISTING PAVEMENT.

**Related Items**

**Required**

<table>
<thead>
<tr>
<th>Design</th>
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**Recommended**

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**Documentation**

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**Other**

**Standards**

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**TRNS*PORT Category (DRAFT FIELD):**

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**Status**

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A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Conduit Installation Type
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: Only when sawcutting is necessary for location under EXISTING PAVEMENT
4 (Underground - Jacked)
5 (Bridge Mount)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>LRE Ref Price</th>
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### Topic No. 600-000-002

**Basis of Estimates**

**2009 Edition**

**October 6, 2008**

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**632- 6- A  SIGNALS- CABLE**

**Notes**

This pay item is for traffic signals and traffic control devices only. Use for runs to flashing beacon, signs, etc. beyond the normal limits of the intersection. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding. Use item 632- 7- (2632- 7-) for cable within the intersection.

**Related Items**

**Required**

**Recommended**

**Forms**

Design: SHTabQuant

Construction: Refer to Comp Book

**Documentation**

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards: Index No. 17727

Specifications

Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

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A = Operation

1 (Furnish & Install)

2 (Furnish)

3 (Install)

4 (Adjust)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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**632- 7- A  SIGNALS- CABLE**

**Notes**

This pay item is for traffic signals and traffic control devices only. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors...
and cable grounding, within the normal limits of the intersection. Consider 632-6-(2632-6-) for runs outside the limits of the intersection.

### Related Items

<table>
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<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tbody>
<tr>
<td><strong>Forms</strong></td>
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<tr>
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<tr>
<td>Design</td>
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### Notes

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<td>0632 7 1</td>
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### 632-8-ABC

**SIGNALS- INTERCONNECT CABLE**

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<tbody>
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<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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### Notes

- This pay item is for traffic signals and traffic control devices only.

### Related Items

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<td>Construction</td>
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<td><strong>Documentation</strong></td>
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<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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<tr>
<td>Construction</td>
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### References

PPM Chapter
- Design: 6, 7, 13
- Construction: 6, 7, 13

**Prep & Doc Manual Chapter(s)**
- 6, 7, 13
### Prep & Doc Manual Chapter(s)

7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

---

**Status**

**Struct.** 632- 8-ABC **SIGNALS- INTERCONNECT CABLE**

- **A** = Number Of Pairs
  - 1 (to Be Determined By Contractor)
  - 2 (1 - 25)
  - 3 (26-50)
  - 4 (51-100)
  - 5 (101-150)
- **B** = Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
- **C** = Type Of Interconnect Cable Installation
  - 1 (Aerial)
  - 2 (Underground)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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**633- 1-ABC** **SIGNALS- FIBER OPTIC CABLE**

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<th>Unit</th>
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<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
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**Notes**

New items for Signals use, pending spec approval.

**Details**

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities. Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

*******

REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless...
otherwise indicated in the plans or specs.

REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

**Related Items**

**Forms**
- Required: Design
- Recommended: SHTabQuant

**Construction**
- Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter: Vol 1, Chapter 7
- Other:
  - Standards:
  - Specifications:

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct. 633- 1-ABC SIGNALS- FIBER OPTIC CABLE LF**

- **A= Operation**
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate)
  - 5 (Adjust /Modify)
  - 6 (Remove) BC=00
  - 7 (Remove and Stockpile) BC=00

- **B= Location**
  - 1 (Overhead)
  - 2 (Underground)

- **C= Number of Fibers in Cable**
  - 1 (2 to 12)
  - 2 (13 to 48)
  - 3 (49 to 96)
  - 4 (97 to 144)

**Notes**
- *Remove item may require plan details and/or tech spec

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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**633- 2- AB SIGNALS- FIBER OPTIC CONNECTION**

- **Unit**: EA
- **Accuracy**: Each
- **PlanQuantity?**: no

**Notes**
- New items for Signals use, pending spec approval.

**Details**
- For use in fiber optic networks where segments of fiber optic cable must be spliced

---

**Details and Structure:** Items 600 to 699
together, or when cables must be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable. Payment “each” is for each FIBER to be connected. Type of connection must be noted in the plans.

Related Items

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<tr>
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<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 633-2-AB SIGNALS- FIBER OPTIC CONNECTION EA

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
B= Type
1 (Splice)
2 (Termination)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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633-3-AB SIGNALS- FIBER OPTIC CONNECTION HARDWARE

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Notes

New items for Signals use, pending spec approval.

Details

For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cord/cable.
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
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**633- 4-1AB**  SIGNALS CONDUIT

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **PlanQuantity?**: no

**Notes**: New items for Signals use, pending spec approval.

**Details**: For fiber optic cable and Signals devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under
EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

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<tbody>
<tr>
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A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**

*Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>633- 5- A</th>
<th>SIGNALS- PULL BOX FOR FIBER OPTIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit</td>
<td>EA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Each</td>
</tr>
<tr>
<td>PlanQuantity?</td>
<td>no</td>
</tr>
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</table>

**Notes**

New items for Signals use, pending spec approval.
Details For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specification for size, materials, and other details for box.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
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**Details and Structure: Items 600 to 699**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633-6- A  SIGNALS SPLICE BOX FOR FIBER OPTIC

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
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<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notes</td>
<td>New items for Signals use, pending spec approval.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Details</td>
<td>For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specificaion for size, materials, and other details for box.</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Related Items**

**Forms**
- Required: SHTabQuant
- Recommended: COMP 700-050-03
- Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0500  Signalization

**Status**

**Struct.** 633-6- A  SIGNALS SPLICE BOX FOR FIBER OPTIC  EA
A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633-  7-  A  SIGNALS PULL AND JUNCTION BOX

<table>
<thead>
<tr>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Notes
New items for Signals use, pending spec approval.

Details
For use on Signals projects. To be used for non-fiber optic wiring needs (power, communication, etc for Signals systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

*******
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

References
PPM Chapter
Other
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status
Struct.  633-  7-  A  SIGNALS PULL AND JUNCTION BOX  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)  
4 (Relocate)  
5 (Adjust /Modify)  
7 (Remove and Stockpile)

**Notes**

_The following items were open, as of the publication date. Refer to the Master Pay Item list for current items._

### 633- 8- A SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE

<table>
<thead>
<tr>
<th>Unit</th>
<th>LF; M1</th>
<th>Accuracy</th>
<th>Linear Foot; 10th of a Meter</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**  
New items for Signals use, pending spec approval.

**Details**  
For use on Signals projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**  
**Required**  
Design: SHTabQuant  
Construction: Refer to Comp Book

**Recommended**  
COMP 700-050-03

**Forms**

**Design**  
PPM Chapter

**Construction**

**Documentation**

**PPM Chapter**  
**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0500  
Signalization

**Status**

**Struct.**  
633- 8- A  
SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE  
A= Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Relocate)  
5 (Adjust /Modify)

**Notes**

_The following items were open, as of the publication date. Refer to the Master Pay Item list for current items._
New items for Signals use, pending spec approval.

For use on Signals projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that can be used together to determine the location of the underground utilities and other objects. Special configuration and/or installation details should be detailed in the plans on a project-by-project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing Signals boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the Signals conduit price, per specifications.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Valid through ????, pending implementation of new Section 633 specification.

This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.

This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.

### Required

**Design**
- SHTabQuant

**Construction**
- Refer to Comp Book

### Recommended

**Design**
- COMP 700-050-03

**Construction**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Notes

**Specifications**

- Single Mode
- Multi Mode
- Composite

**Number Of Fibers In Cable**

- Aerial: 1 (1 - 25)
- Underground: 2 (26 - 50)
- Drop: 3 (51 - 100)
- 101 - 150
- 151 - 200

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>CABLE FIBER OPTIC, F&amp;I, 26-50 PR, AERIAL, COMPOSITE</td>
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**634- 4-ABC**

**SIGNALS- SPAN WIRE ASSEMBLY**

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>Per Intersection</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>PI</td>
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</table>

**Notes**

Effective Date for single wire pending.

**Details**

This pay item is for traffic signals and traffic control devices only.
### Required Standards

- Index No. 17356, 17727

### Documentation

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
  - Index No. 17356, 17727
- **Specifications**
- **Prep & Doc Manual Chapter(s)**
  - 6, 7, 13

### TRNSPORT Category (DRAFT FIELD): 0500 Signalization

### Status

**Struct.** 634- 4-ABC

**SIGNALS- SPAN WIRE ASSEMBLY**

**PI**

A = Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Adjust)

B = Type Assembly
- 0 (One Wire) **5/22/08: effective date pending**
- 1 (Two Wire)
- 2 (Three Wire)

C = Type Span
- 1 (Perpendicular)
- 2 (Diagonal)
- 3 (Box)
- 4 (Other - As Shown In Plans)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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0634 4412 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, DIAGONAL PI 1/1/2007 $1,066.67
0634 4413 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, BOX PI 1/1/2007 $2,319.20
0634 4414 SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, OTHER PI 1/1/2007 $2,304.40

634- 5- A SIGNALS- FIBERGLASS INSULATOR

Unit | LF; M1 | Accuracy | Linear Foot; 10th of a Meter | PlanQuantity? | no

Notes
Details This pay item is for traffic signals and traffic control devices only.
Related Items Required Recommended
Forms Design | SHTabQuant | COMP 700-050-03
Construction Refer to Comp Book

Notes
Details Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Notes Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<tr>
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634- 6- A SIGNALS- MESSENGER WIRE

Unit | LF; M1 | Accuracy | Linear Foot; 10th of a Meter | PlanQuantity? | no

Notes
Details This pay item is for traffic signals and traffic control devices only.
Related Items Required Recommended
Forms Design | SHTabQuant | COMP 700-050-03

Details and Structure: Items 600 to 699
**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>634- 6- A</th>
<th>SIGNALS- MESSENGER WIRE</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Operation</td>
<td>1 (Furnish &amp; Install)</td>
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</tr>
<tr>
<td></td>
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<td>2 (Furnish)</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>3 (Install)</td>
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</tbody>
</table>

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>TSP/Detail</th>
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<td>0634 6 1</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

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</tr>
</thead>
<tbody>
<tr>
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<td>EA</td>
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**Notes**

This pay item is for traffic signals and traffic control devices only.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>LRE Ref Price</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<td>CABLE ADJUST</td>
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635- 1- AB  SIGNALS- PULL & JUNCTION BOXES

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
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Notes
Details
This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items. Use in accordance with Section 635 of the specifications. For Special sizes, detail in the plans or specifications.

Install (A=3): Plan details required to inform contractor how to obtain pull & junction box. Include Agency name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Forms
Required
Design SHTabQuant
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03
Construction

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter 17500, 17503, 17733
Other
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct.  635- 1- AB  SIGNALS- PULL & JUNCTION BOXES  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Type Of Box
1 (Pull Box)
2 (Aerial Junction Box)
3 (Mounted Junction Box)
4 (Telephone Termination Assembly)
5 (Fiber Optics)
6 (Special)*

Notes
* Special may require Tech Spec and/or Plan Detail

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0635 1 11</td>
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<td>TSP/Detail</td>
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**639-1-AB SIGNALS- ELECTRICAL POWER SERVICE**

**Unit**: AS  
**Accuracy**: Assembly

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**

**Required**  
**Recommended**

**Forms**

**Design**  
SHTabQuant  
**Construction**  
Refer to Comp Book

**Documentation**

**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**  
Index No. 17736

**Specifications**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Struct.**  
639-1-AB SIGNALS- ELECTRICAL POWER SERVICE AS

A = Type Of Service
1 (Overhead)
2 (Underground)
B = Meter Base
1 (Furnished By Power Company)
2 (Purchased By Contractor From Power Company)
3 (Not Required)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### Item Description

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### Notes

This pay item is for traffic signals and traffic control devices only. Payment shall be based on the linear foot (meter) of a single conductor. Refer to Specifications.

### Related Items

**Forms**

- **Required**
  - Design: SHTabQuant

- **Recommended**
  - Construction: COMP 700-050-03
  - Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

### Prep & Doc Manual Chapter(s)

7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 639- 2- A SIGNALS- ELECTRICAL SERVICE WIRE LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

---

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
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<tr>
<td>0639 3 11</td>
<td>SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&amp;I, POLE MOUNT</td>
<td>EA</td>
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<td>1/1/2007</td>
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<td>$901.82</td>
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<td>0639 3 12</td>
<td>SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&amp;I, CABINET</td>
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### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>SIGNALS- EMERGENCY GENERATOR</td>
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### Notes
This pay item is for traffic signals and traffic control devices only.

### Related Items
**Required**
- SHTabQuant
- COMP 700-050-03

### Forms
- Design: Refer to Comp Book
- Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- PPM Chapter: Design, Construction
- Standards: Index No. 17736
- Specifications: Prep & Doc Manual Chapter(s): 7, 13

### TRNS*PORT Category (DRAFT FIELD):
- 0500 Signalization
**Status**

**Struct.** 639- 4- A  
**SIGNALS- EMERGENCY GENERATOR**

A = Operation
1 (Furnish & Install)
2 (Modify)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>8/10/2008</td>
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**Details**

This pay item is for traffic signals and traffic control devices only.

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<th>Forms</th>
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<tr>
<td>Design</td>
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**Documentation**

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**References**

PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500  Signalization

**Status**

**Struct.** 641- 1-  
**SIGNALS- STRAIN POLES, GUYING, CONCRETE**

**Notes**

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
<td>0641</td>
<td>STRAIN POLES GUYING, CONCRETE</td>
<td>EA</td>
<td>1/1/2007</td>
<td>1/1/2007</td>
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</table>

**641- 2- AB PRESTRESSED CONCRETE POLES**

**Notes**
Effective January 2008; replaces 641- AB-CDD

**Details**
This pay item is for traffic signals and traffic control devices only. Pole description, including the type, height, and other details must be included in the signal plans. to be used as detailed on index 17725. Poles must be on QPL list.

**Related Items**

**Forms**
- Required: Design
- Recommended: COMP 700-050-03

**Documentation**
- Design: Refer to Comp Book
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Specifications**
- Index No. 17725

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

**Struct.**

**Notes**
*Custom Design requires Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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<table>
<thead>
<tr>
<th>643- 1-</th>
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</thead>
</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

**Required**

**Recommended**

- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**: Index No. 17356, 17727
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 643- 1- STRAIN POLES, GUYING, WOOD EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 643-ABB-

**STRAIN POLES, WOOD**

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</table>

**Notes**

- This pay item is for traffic signals and traffic control devices only.
- Pole description, including the type, height, and other details must be included in the signal design.

**Related Items**

- Required: 643-
- Recommended: 643- 1- (2643- 1)

**Forms**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 643-ABB-

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A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Pole Length (Specified In 5' Increments Only)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 649- 1- AB

**STEEL STRAIN POLES**

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**Notes**

- Effective January 2008; replaces 649- A-BCC

**Details**

This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal design.
plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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### References

PPM Chapter
Other
Standards
Specifications

*Selected Items may require Tech Spec and/or Plan Detail

#### Prep & Doc Manual Chapter(s)

#### Status

**Struct.** 649- 1- AB STEEL STRAIN POLES EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type PS-IV)
2 (Type PS - V)
3 (Type PS-VI)
4 (Type PS-VII)
5 (Type PS - VIII)
6 (Type PS-IX)
7 (Type PS - X)
9 (Custom)*

* Custom may require Tech Spec and/or Plan Detail

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**649- 1A-BBB** MONOTUBE ASSEMBLIES, STEEL

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Details and Structure: Items 600 to 699
Valid through December 2007.

This pay item is for traffic signals and traffic control devices only.

After December 2007: Design Standards are no longer available. Please contact the State Structures Office for assistance. Ensure that the maintaining agency and local authorities have agreed to the use of a monotube. Contact the Estimates Office to request replacement pay item(s). Tech Specs and/or Plan Details will be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NOT TO BE USED FOR ITS Projects. Refer to 780 items.

Item used for monotube structures which carry signals. Refer to Plans Preparation Manual, Vol I Chapters 7 and 29, Vol II Chapter 24 for details.

Use Monotube Tabulation Sheet (available from CADD bar menu). Structures Office will determine configuration required.

Foundation included on standard; special foundation determined by structures engineer and included in plans.

Standards available in English units only; English standards may be used on metric projects.

Special: Tech Spec and/or plan detail required. Coordinate with District Specs Office

### Related Items

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### Prep & Doc Manual Chapter(s)

| 7, 13 |

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**TRNS**PORT Category (DRAFT FIELD): 0500 Signalization

**Status**

**Struct.** 649-1A-BBB MONOTUBE ASSEMBLIES, STEEL EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BBB =
001 (Special) see detail
002 (Special 2) see detail
003 (Special 3) see detail
110 (Standard 110' span)
135 (Standard 135' span)
160 (Standard 160' span)
185 (Standard 185’ span)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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**649- 3A-BCC STEEL MAST ARM ASSEMBLY**

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

Effective January 2008; replaces 649-ABC-DEE

**Details**

This pay item is for traffic signals and traffic control devices only. Pole description, including the type, height, and other details must be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.

B=9 (Custom) to be used only when specifications and/or standards do not apply, due to significant design changes.

When street name signs are to be located on a signals mast arm, tabulate and detail the sign (size, shape, letters, etc.) in the SIGNING plans. Load the pay item in the SIGNING category. The installation location may be shown on the signal plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Documentation**

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*Selected Items may require Tech Spec and/or Plan Detail*

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 649- 3A-BCC STEEL MAST ARM ASSEMBLY EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCC=000
4 (Relocate) BCC=000

B= Wind Speed
1 (150 with signal backplates)
2 (130 with signal backplates or 150 without signal backplates)
3 (110 with signal backplates)
9 (Custom) CC=99*

CC= Arm Length(s)
For Single Arm, w/o Luminaire
01 (36)
02 (46)
03 (60)
04 (70.5)
05 (78)
For Single Arm w/ Luminaire
06 (36)
07 (46)
08 (60)
o9 (70.5)
For Double Arm w/o Luminaire
10 (36-36)
11 (36-46)
12 (36-60)
13 (36-70.5)
14 (46-46)
15 (46-60)
16 (46-70.5)
17 (60-60)
18 (60-70.5)
19 (70.5-70.5)
Custom/Non-Standard Arm Combinations
99 = Custom*

Notes  *BC=99 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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**649-ABC-DEE** MAST ARM ASSEMBLY

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Details and Structure: Items 600 to 699
Details

This pay item is for traffic signals and traffic control devices only. Refer to Plans Preparation Manual- Vol I Chapter 29, Vol II Chapter 24, and/or Standards for details. Mast Arm Tabulation Sheet required in plans, in addition to tabulation of quantities.

If a Mast Arm assembly is required that differs from the standards, then a special design is performed and the details placed in the plans.

Mast Arms "A" to be replaced by "B".
Mast Arms "B" for 110 MPH wind w/signal backplate.
Mast Arms "C" for 90 MPH wind w/signal backplate, or 110 MPH wind, without backplate.
Arm and pole types, as noted in standards and pay item structure.
Foundation design is included on standard. Special Foundation designs to be determined by Structures Engineer and included with the plans, if needed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Required Recommended

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<tr>
<th>Related Items</th>
<th>Forms</th>
<th>Design</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
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*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 649-ABC-DEE MAST ARM ASSEMBLY EA

A = Operation
4 (Furnish & Install / high loading)
5 (Furnish / high loading)
6 (Install / high loading)
7 (Furnish & Install / reduced loading)
8 (Furnish / reduced loading)
9 (Install / reduced loading)

B = Structure Type
1 (Single Arm Without Luminaire)
2 (Double Arm Without Luminaire)
3 (Single Arm With Luminaire)
4 (Special Design) C = 0, DEE = blank

C = First Arm Type (A=4-6)
1 (B1)
2 (B2)
3 (B3)
4 (B4)
5 (B5)
6 (B6)
7 (B7)
C = First Arm Type (A=7-9)
1 (C1)
2 (C2)
3 (C3)
4 (C4)
5 (C5)
6 (C6)
7 (C7)
D = Second Arm Type (A=4-6)
0 (No Second Arm)
1 (B1)
2 (B2)
3 (B3)
4 (B4)
5 (B5)
6 (B6)
D = Second Arm Type (A=7-9)
0 (No Second Arm)
1 (C1)
2 (C2)
3 (C3)
4 (C4)
5 (C5)
6 (C6)
EE = Upright Pole Type (A=4-6)
01 (Q1)
02 (Q2)
03 (Q3)
04 (Q4)
05 (Q5)
06 (Q6)
07 (Q21 Lum)
08 (Q22 Lum)
09 (Q23 Lum)
10 (Q24Lum)
11 (Special Design)
EE = Upright Pole Type (A=7-9)
01 (R1)
02 (R2)
03 (R3)
04 (R4)
05 (R5)
06 (R6)
07 (R21 Lum)
08 (R22 Lum)
09 (R23 Lum)
10 (R24Lum)
11 (Special Design)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

650-5A-BCD TRAFFIC SIGNAL

Details and Structure: Items 600 to 699
This pay item is for traffic signals and traffic control devices only. Includes standard traffic signal, with LED indicators, and all other materials necessary for a complete and accepted installation.

Relocate: Includes the removal of the signal head and installation at the location shown in the plans. This includes signal cable and all other materials necessary for a complete and accepted relocation.

Special: DO NOT Use this item for LED (standard) signals. "Special" types should be submitted to the State Traffic Ops office for review.

### Related Items

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### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

### TRNSPORT Category (DRAFT FIELD):

0500 Signalization

---

**Notes**

TRAFFIC SIGNAL

A = Operation

1 (Furnish & Install)

2 (Furnish)

3 (Install) BCD=blank

4 (Relocate) BCD=blank

B = Number Of Sections On Each Face

C = Number Of Directions

D = Type

1 (Standard) LED indicators

2 (Light Weight)

3 (Special) see detail

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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Notes
This pay item is for traffic signals and traffic control devices only.

### Related Items
**Forms**
- **Required**
  - Design: SHTabQuant
  - Construction: COMP 700-050-03
- **Recommended**
  - Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**: Index No. 17764, 17784
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

### Status
**Struct.** 653-ABC- PEDESTRIAN SIGNAL AS

- A = Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate) BC=00
- B = Type Signal
  - 1 (12" Incandescent)
  - 2 (12" Fiber Optic)
  - 3 (Optically Programmed)
  - 4 (Neon)
  - 5 (9" Incandescent)
  - 6 (9" Fiber Optic)
  - 7 (Neon International Symbol Low Wattage)
  - 8 (LED)
  - 9 (LED- Countdown) STANDARD
- C = Number Of Directions (Ways)

### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**Details and Structure:** Items 600 to 699

---

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<th>Item</th>
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**659-ABB- SIGNAL HEAD AUXILIARIES**

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**Notes**
This pay item is for traffic signals and traffic control devices only.

**Details**

**Related Items**

**Required**

**Recommended**

**Forms**

**Design**

**Construction**

**Documentation**

**Refer to Comp Book**

Locate in plans. Summarize quantities by location on tabulation of quantities

**Details and Structure:** Items 600 to 699
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Specifications**

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 659-ABB- SIGNAL HEAD AUXILIARIES EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = 01 (Back Plates, 3 Section)
02 (Back Plates, 4 Section)
03 (Disconnect Hanger)
04 (Signal Lamps 140 Watt Max.)
05 (Signal Lamps 60 Watt Max.)
06 (Tunnel Visor)
07 (Aluminum Pedestal)
08 (Steel Pedestal)
09 (Concrete Pedestal, Type II)
10 (Louvers)
11 (Back Plates, 1-Section)
12 (Mounting Brackets, 2-Way)
13 (Mounting Brackets, 3-Way)
14 (Mounting Brackets, 4-Way)
15 (12" Lens)
16 (8" Lens)
17 (Signal Frame)
18 (Back Plates, 5-Section Cluster)
20 (LED Module)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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0659108  SIGNAL HEAD AUXILIARIES, F&I, STEEL PEDESTAL  EA  1/1/2007  $1,138.90
0659109  SIGNAL HEAD AUXILIARIES, F&I, CONC PEDESTAL TYPE II  EA  1/1/2007  $750.39
0659110  SIGNAL HEAD AUXILIARIES, F&I, LOUVERS  EA  1/1/2007  $121.18
0659111  SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 1 SECTION  EA  1/1/2007  $97.33
0659112  SIGNAL HEAD AUXILIARIES, F&I, MOUNTING BRACKETS, 2-WAY  EA  1/1/2007  $0.00
0659118  SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 5 SECT CLUSTER  EA  1/1/2007  $173.85
0659120  SIGNAL HEAD AUXILIARIES, F&I, LED MODULE  EA  1/1/2007  $47.24
0659307  SIGNAL HEAD AUXILIARIES, INSTALL, ALUMINUM PEDESTAL  EA  1/1/2007  $621.10
0659308  SIGNAL HEAD AUXILIARIES, INSTALL, STEEL PEDESTAL  EA  1/1/2007  $1,029.67
0659309  SIGNAL HEAD AUXILIARIES, INSTALL, CONC PEDESTAL TYPE II  EA  1/1/2007  $200.00

660- 1-ABB  LOOP DETECTOR, INDUCTIVE

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This pay item is for traffic signals and traffic control devices only.

**Required**
- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**PPM Chapter**
- Design
- Construction

**Other**
- Standards

**Specifications**

**TRNS*PORT Category (DRAFT FIELD):**
- 0500  Signalization

**Status**
- 660- 1-ABB  LOOP DETECTOR, INDUCTIVE  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

**Details and Structure:** Items 600 to 699
BB = Type
01 (Type 1, 1 Ch, R, S)
02 (Type 2, 1 Ch, R, S, TD)
03 (Type 3, 1 Ch, SS, S)
04 (Type 4, 1 Ch, SS, S, TD)
05 (Type 5, 2 Ch, SS, S)
06 (Type 6, 2 Ch, SS, S, TD)
07 (Type 7, 4 Ch, SS, S)
08 (Type 8, 4 Ch, SS, S, TD)
09 (Type 9, 2 Ch, SS, RM)
10 (Type 10, 2 Ch, SS, RM, TD)
11 (Type 11, 4 Ch, SS, RM)
12 (Type 12, 4 Ch, SS, RM, TD)

Legend
Ch = Channel
R = Relay Output
S = Shelf Mounted
TD = Time Delay
RM = Rack Mounted
SS = Solid State

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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660-  2-ABB LOOP ASSEMBLY

Unit   Accuracy Assembly PlanQuantity? no

Notes

Details and Structure: Items 600 to 699
Details

This pay item is for traffic signals and traffic control devices only. Includes cost of loop material, labor, etc. according to specifications.

Related Items

Required  Recommended

Forms  Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation  Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References  PPM Chapter  
Other  Index No. 17781
Specifications  Prep & Doc Manual Chapter(s)  6, 7, 13

TRNS*PORT Category (DRAFT FIELD):  0500  Signalization

Status

Struct.  660- 2-ABB  LOOP ASSEMBLY  AS

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type
01 (Type A)
02 (Type B)
03 (Type C)
04 (Type D)
05 (Type E)
06 (Type F)
07 (Type G)
08 (Type H)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
<th>Unit</th>
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663- 72- A  VEHICLE DETECTOR SUPPORT APPURTENANCES

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes

Details  This pay item is for traffic signals and traffic control devices only.
Related Items  Required  Recommended
Standards
Specifications

Struct.  663- 72-  A VEHICLE DETECTOR SUPPORT APPURTENANCES EA

A =
1 (Readers)
2 (Memory Modules)
3 (Software)

Notes

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct.  663- 72-  A VEHICLE DETECTOR SUPPORT APPURTENANCES EA

Unit EA Accuracy Each PlanQuantity? no

Notes

Details
This pay item is for traffic signals and traffic control devices only. Includes all work and materials necessary for a complete assembly, as detailed in the plans or specifications.
For Relocate operation, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS**PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 663-74-AB VEHICLE DETECTOR ASSEMBLIES EA

A = Operation
1 (Furnish & Install)
4 (Relocate)

B = Assembly Type
1 (Optical Type)
2 (Infrared)
3 (Road Tube)
4 (Optical- Emergency Pre-emption)
5 (Video)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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665-AB- PEDESTRIAN DETECTOR

Unit EA

Accuracy Each

Plan Quantity? no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Includes pedestrian signs, as shown on index 17784.

For Relocate, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

Related Items

Required Recommended

Forms Design SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 17784

Specifications

Prep & Doc Manual Chapter(s) 7, 13
### 665- AB- PEDESTRIAN DETECTOR

**A = Operation**
1. (Furnish & Install)
2. (Furnish)
3. (Install)
4. (Relocate) B=0 see details above

**B = Assembly Type**
1. (Pole Or Controller Cabinet Mounted Detector Station)
2. (Detector Station With Post)
3. (Detector With Sign Only)

---

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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### 668- AB- DETECTOR CABINET (SIGNALS)

**Unit** | EA  
**Accuracy** | Each  
**Plan Quantity?** | no

---

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>SHTabQuant</th>
<th>COMP 700-050-03</th>
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**Documentation**

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**References**

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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>7, 13</td>
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**TRNS*PORT Category (DRAFT FIELD):** 0500  Signalization

**Status**

**Struct.** 668- AB- DETECTOR CABINET (SIGNALS) EA

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Cabinet Size (Minimum)
1 (Type I 13" X 10" X 6")
2 (Type II 27" X 15" X 12")
3 (Type III 32" X 20" X 14")
4 (Type IV 48" X 29" X 16")
5 (Type V 54" X 38" X 24")
6 (Type VI 74" X 38" X 24")

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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670- 4- A  FLASHING BEACON CONTROLLER ASSEMBLY

**Unit** AS  **Accuracy**  **Assembly**  **PlanQuantity?** no

**Notes**

Details
This pay item is for traffic signals and traffic control devices only.

Related Items
**Required** SHTabQuant  **Recommended** COMP 700-050-03

**Forms**
**Design** Refer to Comp Book  **Construction**

**Documentation**
**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
**Standards** Index No. 17841

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

- **Required**
  - Design: SHTTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

- PPM Chapter
- Other
- Standards
- Specifications

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s): 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Details and Structure: Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 671- 2- AB TRAFFIC CONTROLLER

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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

Required

Forms

Design

Construction

Documentation

Design

Construction

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 671- 2- AB TRAFFIC CONTROLLER EA

A = 1 (Furnish & Install)

Details and Structure: Items 600 to 699
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
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678- 1-ABB CONTROLLER ACCESSORIES

| Unit | EA | Accuracy | Each | Plan Quantity? | no |

Notes

Details

This pay item is for traffic signals and traffic control devices only.

Related Items

Required

Recommended

Design | SHTabQuant | COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 678- 1-ABB CONTROLLER ACCESSORIES EA

A = Operation

1 (Furnish & Install)

2 (Furnish)

3 (Install)

BB = Type Of Controller Accessory

01 (Type 3 Conflict Monitor)

02 (Type 6 Conflict Monitor)

03 (Type 12 Conflict Monitor)

04 (Load Switch)

05 (Type 1 Flasher)

06 (Type 3 Flasher)
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
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680-ABB-

SYSTEM CONTROL EQUIPMENT

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Notes

This pay item is for traffic signals and traffic control devices only. Detailed plan notes or specifications to be provided by designer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
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<tr>
<th>Forms</th>
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<tr>
<td>Construction</td>
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Documentation

| Design  | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
|         | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

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<tr>
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Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 680-ABB- SYSTEM CONTROL EQUIPMENT EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CPU)
02 (Card Reader)
03 (Keyboard Printer)
04 (Line Printer)
05 (Disc Memory System)
06 (Communications Interface)
07 (Display Map Interface)
08 (Mag Type System)
09 (Keyboard CRT)
10 (Control Console)
11 (Roadside Master)
12 (Card Punch)
13 (Central Microcomputer Assembly)
14 (Central Modem Card)
15 (Autodial/Answer Ext Communications Modem)
16 (Fiber Optic, FSK Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
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This pay item is for traffic signals and traffic control devices only.

Required | Recommended
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SHTabQuantLS | COMP 700-050-05

Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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Details and Structure: Items 600 to 699
## Unit EA Accuracy Each PlanQuantity? no

### Notes

**Details**

This pay item is for traffic signals and traffic control devices only. Refer to ITS Items for Intelligent Transportation System applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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### Documentation

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### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

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**TRNS*PORT Category (DRAFT FIELD):**

0500 Signalization

---

### Status

**Struct.** 682-ABB- SYSTEM DISPLAY EA

A = Operation

1 (Furnish & Install)

2 (Furnish)

3 (Install)

4 (Modify)

BB = Item As Described

01 (CRT Display)

02 (Panel Board Map)

03 (Projected Display)

---

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**683-ABB- SYSTEM COMMUNICATIONS**

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### Notes

**Details**

This pay item is for traffic signals and traffic control devices only. Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Forms**

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**Documentation**

| Design | Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500  
**Status**

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A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Modify)  
BB= Item As Described  
01 (FDM)  
02 (TDM)  
03 (TDM Hardware)  
04 (TDM Radio)  
05 (TDM Coaxial)  
06 (Central Site Radio)  
07 (System Communications Modems)  
08 (Voice Equipment)

**Notes**

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**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
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**684- AB-**  
**SYSTEM COMMUNICATIONS CARRIER**

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**Notes**

**Details**

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Required

- **Forms**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
  - Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

- 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- 0500 Signalization

### Status

**Struct.**

684-AB-

SYSTEM COMMUNICATIONS CARRIER LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Item As Described
1 (Multi-Pair Cable)
2 (Coaxial Cable)
3 (Lead Jacketed Coaxial Cable)
4 (Fiber Optic Cable)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
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### 685-ABB-

SYSTEM AUXILIARIES

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### Notes

Details

- This pay item is for traffic signals and traffic control devices only. NOT TO BE USED FOR ITS Projects. Refer to 780 items.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Required

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### Recommended

**Design**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS**

**PORT Category (DRAFT FIELD):**  0500 Signalization

### Status

**Struct.** 685-ABB- SYSTEM AUXILIARIES EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (RF Modulator)
02 (Multi-Plex Field Transceiver, Wire)
03 (Multi-Plex Field Transceiver, Radio)
04 (Data Accumulator)
05 (Master Clock Unit)
06 (Uninterruptible Power Source)
07 (Test Equipment)
08 (Equipment Cabinet, Type A)
09 (Equipment Cabinet, Type B)
10 (Equipment Cabinet, Type C)
11 (Equipment Cabinet, Type D)
12 (Bridge Continuity Sensor)
13 (Pier Vibration Detection System-Sensors)
14 (Pier Vibration Detection System-Monitor/Controller)
15 (Weather Instrumentation)
16 (Remote Site-Radio)
17 (Citizen Band-Radio)
18 (Telemetry Transmitter)
19 (Telemetry Receiver)
20 (Telemetry Transceiver)
21 (Pre-Timed Controller Adapter)
22 (2-Phase Or Full Actuated Adapter)
23 (3/Phase Thru 8-Phase Full Actuated Adapter)
24 (Universal Adapter)
25 (Standby System Relay)
26 (Standby System Timer)
27 (Telephone Connection Box)
28 (Interface Panel)
29 (Pneumatic Transport Tube Assembly)
30 (Weigh In Motion Scale Assembly)
31 (Static Scale Assembly)
32 (Public Address System Assembly)
33 (RF Demodulator)
34 (Dimensional Measurement Assembly)
36 (Low Band Vhf Radio)
37 (Line Amplifier)
38 (CCTV Camera Assembly)
39 (Fiber Optic Video Amplifier, Transmitter & Receiver)
40 (Fiber Optic, Modulator/Demodulator)
41 (Fiber Optic, Multiplexor/Demultiplexor)
42 (Video Central Control Equipment)
43 (Video Monitors)
44 (Video System Support Equipment)
55 (PLP FSK Card)
56 (FSK Modem, Interface Panel Wall)
57 (FSK Modem, Multiplexor Interface Panel)
58 (FSK Modem, Interface Panel Rack)
60 (Microwave Radar Detection Unit Assembly)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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0685140  SYSTEM AUXILIARIES, FURNISH & INSTALL FIBER OPTIC-MODULATOR/DEMODULATOR  EA  T  1/1/2007  $898.20
0685141  SYSTEM AUXILIARIES, FIBER OPTIC-MULTIPLEXOR/DEMULTIPLEXOR  EA  T  1/1/2007  $5,671.75
0685142  SYSTEM AUXILIARIES, F&I, VIDEO CENTRAL CONTROL EQUIPMENT  EA  T  1/1/2007  $149,680.36
0685143  SYSTEM AUXILIARIES, F&I, VIDEO MONITORS  EA  T  1/1/2007  $958.77
0685144  SYSTEM AUXILIARIES, F&I, VIDEO SUPPORT EQUIPMENT  EA  T  1/1/2007  $79,121.12
0685158  SYSTEM AUXILIARIES, F&I, FSK MODEM INTERFACE PANEL RACK  EA  T  1/1/2007  $5,000.00
0685160  SYSTEM AUXILIARIES, F&I, MICROWAVE RADAR DETECTION UNIT ASSEMBLY  EA  T  1/1/2007  $1,234.95
0685206  SYSTEM AUXILIARIES, FURNISH, UNINTERRUPTIBLE POWER SOURCE  EA  T  1/1/2007  $2,000.00
0685320  SYSTEM AUXILIARIES, INSTALL, TELEMETRY TRANSCEIVER  EA  T  1/1/2007  $800.00
0685324  SYSTEM AUXILIARIES, INSTALL, UNIVERSAL ADAPTER  EA  T  1/1/2007  $500.00
0685327  SYSTEM AUXILIARIES, INSTALL, TELEPHONE CONNECTION BOX  EA  T  1/1/2007  $123.01
0685338  SYSTEM AUXILIARIES, INSTALL, CCTV CAMERA ASSEMBLY  EA  T  1/1/2007  $1,000.00
0685360  SYSTEM AUXILIARIES, INSTALL, MICROWAVE RADAR DETECTION UNIT ASSEMBLY  EA  T  1/1/2007  $2,096.91

686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT

Unit: EA  Accuracy: Each  Plan Quantity?: no

Notes

Details
This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Design: SHTabQuant  Construction: COMP 700-050-03

Recommended Design: Refer to Comp Book  Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

References

PPM Chapter Other Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (Camera Assembly)
02 (Monitor)
03 (Recorder)
04 (Central Controls)
05 (Camera Support)
C 06 (Cable Plant)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0686101</td>
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<td>0686103</td>
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<td>0686105</td>
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<td>1/1/2007</td>
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<tr>
<td>0686305</td>
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<td>1/1/2007</td>
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<td>$1,500.00</td>
</tr>
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690-10- TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL

Notes

Details

This pay item is for traffic signals and traffic control devices only.

Related Items

Required

Forms

Design | SHTabQuant

Construction

Recommended

Forms

Design | COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0690 10</td>
<td>SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL</td>
<td>EA</td>
<td>1/1/2007</td>
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<td></td>
<td>$51.42</td>
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</table>

**Struct. 690-10-** TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL EA

**Notes**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Related Items**

**Forms**
- Required
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0690 20</td>
<td>SIGNAL PEDESTRIAN ASSEMBLY REMOVE</td>
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<td>1/1/2007</td>
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<td>$47.72</td>
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**Struct. 690-20-** SIGNAL PEDESTRIAN ASSEMBLY, REMOVE EA

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**

**Forms**
- Required
  - Design: COMP 700-050-03
  - Construction: Refer to Comp Book

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 690-31- SIGNAL PEDESTAL- REMOVE

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

This pay item is for traffic signals and traffic control devices only.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

**Forms**

| Design | SHTabQuant | COMP 700-050-03 |

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter

**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

Struct. 690-31- SIGNAL PEDESTAL- REMOVE EA

### 690-32- POLE REMOVAL- SHALLOW

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal.

Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation, including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.

Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.

NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
</table>

**Forms**

| Design | SHTabQuant | COMP 700-050-03 |

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form |

---

**Details and Structure:** Items 600 to 699
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0690 32 1</td>
<td>POLE REMOVAL, SHALLOW, DIRECT BURIAL</td>
<td>EA</td>
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<td>$639.67</td>
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<tr>
<td>0690 32 2</td>
<td>POLE REMOVAL, SHALLOW, BOLT ON ATTACHMENT</td>
<td>EA</td>
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<td>1/1/2007</td>
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<td>$1,576.83</td>
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</table>

690-33- A POLE REMOVAL - DEEP

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes
Details
This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal. Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation, including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each. Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal. NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

Related Items
Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book
Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 690-33- A POLE REMOVAL- DEEP LF

A =
1 (Direct Burial)
2 (Bolt on Attachment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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<tr>
<td>0690 33 2</td>
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690-50- A CONTROLLER ASSEMBLY- REMOVE

<table>
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<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
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<tbody>
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</table>

Notes

Details

This pay item is for traffic signals and traffic control devices only.

Related Items

Required

Design: SHTabQuant

Recommended

Construction: Refer to Comp Book

Forms

Design

Construction

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 690-50- A CONTROLLER ASSEMBLY- REMOVE EA

A =
'Blank' = Complete Assembly
1 (Cabinet Assembly, Less Foundation)
2 (Controller Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 690-60-
**DETECTOR VEHICLE ASSEMBLY, REMOVE**

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>PlanQuantity?</th>
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<tbody>
<tr>
<td>0690 50</td>
<td>CONTROLLER ASSEMBLY, REMOVE, COMPLETE ASSEMBLY</td>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
<tr>
<td>0690 50 1</td>
<td>CONTROLLER ASSEMBLY, REMOVE, CAB ASSEMBLY, LESS FOUNDATION</td>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
<tr>
<td>0690 50 2</td>
<td>CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT</td>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
This pay item is for traffic signals and traffic control devices only.

**Related Items**
- **Forms**
  - **Required Design**: SHTabQuant
  - **Recommended Design**: COMP 700-050-03
  - **Construction Design**: Refer to Comp Book
- **Documentation Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Prep & Doc Manual Chapter(s)**: 7, 13

**TPNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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</table>

**Details**
This pay item is for traffic signals and traffic control devices only.

**References**
- **PPM Chapter**
- **Other Standards Specifications**

**Status**
- **Struct. 690-60- DETECTOR VEHICLE ASSEMBLY, REMOVE EA**

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Description</th>
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**Notes**
This pay item is for traffic signals and traffic control devices only.

**Related Items**
- **Forms**
  - **Required Design**: SHTabQuant
  - **Recommended Design**: COMP 700-050-03
  - **Construction Design**: Refer to Comp Book
- **Documentation Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>0690</td>
<td>DETECTOR PEDESTRIAN ASSEMBLY REMOVE</td>
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**Notes**

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<th>Obsolete Date</th>
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<th>Price</th>
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</thead>
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<td>SPAN WIRE ASSEMBLY REMOVE</td>
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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Related Items**
- **Required**
  - Design: SHTabQuant
  - Construction: COMP 700-050-03
- **Recommended**
  - Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### 690-90- \textbf{REMOVE CONDUIT & CABLING}

<table>
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<th>Unit</th>
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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Details**

**Required**

**Recommended**

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

Struct. 690-90- REMOVE CONDUIT & CABLING PI

---

### 690-91- \textbf{SIGNAL INTERCONNECT CABLE, REMOVE}

<table>
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<th>LF; M1</th>
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<th>Linear Foot; 10th of a Meter</th>
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<th>no</th>
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**Notes**

This pay item is for traffic signals and traffic control devices only.

**Details**

**Related Items**

**Required**

**Recommended**

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

---

**Details and Structure:** Items 600 to 699
### Struct. 690-91 SIGNAL INTERCONNECT CABLE, REMOVE LF

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>SIGNAL INTERCONNECT CABLE REMOVE</td>
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### 690-100 SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE PI

**Notes**

This pay item is for traffic signals and traffic control devices only. Detail items to be removed in plans, by intersection.

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Forms**

- **Construction**: Refer to Comp Book

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s): 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0500 Signalization

---

### Struct. 690-100 SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE PI

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
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<td>1/1/2007</td>
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### 699-1-AB INTERNALLY ILLUMINATED SIGN

**Notes**

This item should be used when requested by maintaining agency.

**Related Items**

- **Required**: Each

---

Details and Structure: Items 600 to 699
Details and Structure: Items 600 to 699

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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This page intentionally left blank
## 700-20-AB  SINGLE POST SIGN

<table>
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<tr>
<th>Unit</th>
<th>AS</th>
<th>Accuracy</th>
<th>Assembly</th>
<th>PlanQuantity?</th>
<th>no</th>
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</thead>
</table>

### Notes
**Effective July 2007 letting; replaces 700-40-A.**

Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)."

Back-to-Back and/or multiple signs on a single post: Select the sign panel size (B= 1, 2, 3) based on the combined total sign area.

Standards limit single post sign area (wind resistance area from any one direction) to 20 SF.

B=9 Custom: For signs with a wind resistance area/maximum projected area from any one direction greater than 20 SF, multi-post signs are recommended. If project conditions require a single post sign greater than 20sf, a custom (non-standard) sign may be used. Plan details will be needed. Verify with Roadway Design Office prior to opening/using pay item on a project.

Refer to design standards for single/multi-post requirements.

### INSTALL: Install includes the installation of existing panel(s) on a new sign post.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

- PPM Chapter
- Other Standards
- Specifications

**Prep & Doc Manual Chapter(s):** 7, 13

**TRNS**PORT Category (DRAFT FIELD): 0300  Signing and Pavement Markings

### Status

#### Struct.  700-20-AB  SINGLE POST SIGN  AS

- **A= Operation**
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate) B=0
  - 6 (Remove) B=0
- **B= Sign Panel Size, Square feet**
  - 1 (less than 12)
  - 2 (12-20)
  - 3 (20+ back-to-back)
  - 9 (Custom)*
Notes  See Details for selecting B= Sign Panel Size.
*B=9 (Custom) for non-standard designs. Plan details will be necessary. Verify with Roadway Design Office prior to opening/using on a project.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
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<tr>
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<td>SINGLE POST SIGN, F&amp;I, LESS THAN 12 SF</td>
<td>AS</td>
<td></td>
<td>7/1/2007</td>
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<td></td>
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<td>0700 20 12</td>
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</table>

700-21-AB  MULTI-POST SIGN

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<th>Unit</th>
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<th>Assembly</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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</tr>
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</table>

Notes  Effective July 2007 letting; replaces 700-41-AA.

Details  Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. The number and size of post and the average post length must be shown in the plans. Per specifications, “for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)...”

INSTALL: Install includes the installation of existing panel(s) on new sign posts.

Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
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<tr>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

Documentation  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References  PPM Chapter
Other Standards Specifications
Prep & Doc Manual Chapter(s) 7, 13

Status  0300  Signing and Pavement Markings

TRNS*PORT Category (DRAFT FIELD): 0300  Signing and Pavement Markings

Details and Structure: Items 700 to 799
2 (Furnish)  
3 (Install)  
4 (Relocate) B=0  
6 (Remove) B=0  

B = Sign Panel Size, square feet  
1 (50 or less)  
2 (51 to 100)  
3 (101 to 150)  
4 (151 to 200)  
5 (201 to 250)  
6 (251 to 300)  
7 (over 300)  
9 (Custom) non-standard sign  

Notes  
*B=9 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.  

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.  

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>MULTI- POST SIGN, F&amp;I, 50 SF OR LESS</td>
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<td></td>
<td></td>
<td>$3,516.62</td>
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<td>MULTI- POST SIGN, F&amp;I, 101 - 150 SF</td>
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</tbody>
</table>

700- 22-ABC  OVERHEAD TRUSS SPAN SIGN  

Notes  
Effective January 2008 letting; replaces selected 700-42 to 700-46 items  

Details  
FOR ITS APPLICATIONS, USE 780 items  
******************************************************************  

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.
All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
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<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

*Selected Items may require Tech Spec and/or Plan Detail

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 700-22-ABC OVERHEAD TRUSS SPAN SIGN AS

A= Operation
  1 (Furnish & Install)
  2 (Furnish)
  3 (Install) BC=00
  4 (Relocate) BC=00
  6 (Remove) BC=00

B= Truss Span Length (feet)
  1 (50 or less)
  2 (51-100)
  3 (101-150)
  4 (151-200)
  5 (Greater than 200)

C= Sign Panel Size (square feet)
  1 (300 or less)
  2 (301-500)
  3 (501-700)
  4 (Greater than 700)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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<th>LRE Ref Price</th>
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<tr>
<td>0700 22122</td>
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<td>0700 22134</td>
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<td>1/1/2008</td>
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<td>$100,000.00</td>
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<td>0700 22135</td>
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</table>
### 700-23-ABC OVERHEAD TRUSS CANTILEVER SIGN

**Unit** | **Accuracy** | **Assembly** | **Plan?** | **Quantity?** | **no**
---|---|---|---|---|

**Notes**

Effective January 2008 letting; replaces selected 700-42 to 700-46 items

**Details**

FOR ITS APPLICATIONS, USE 780 items

**************************************************

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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**Forms**

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<tr>
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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**Documentation**

**PPM Chapter**

**Design**

**Construction**

*Selected Items may require Tech Spec and/or Plan Detail*

**Prep & Doc Manual Chapter(s)** 7, 13

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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

### Status

**Struct.** 700-23-ABC OVERHEAD TRUSS CANTILEVER SIGN AS

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00
B = Truss Span Length (feet)
1 (30 or less)
2 (31-40)
3 (41-50)
4 (over 50)

C = Sign Panel Size (square feet)
1 (100 or less)
2 (101-200)
3 (201-300)
4 (Greater than 300)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 23111</td>
<td>OVERHEAD TRUSS CANTILEVER SIGN,F&amp;I,T 30 OR &lt;, S 100 OR &lt;</td>
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<td>1/1/2008</td>
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### 700-38-AAB  SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE)

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<th>Assembly</th>
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#### Notes
- Standards valid through 12-31-06
- Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

- For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

#### Related Items
- **Forms**
  - Required: Design
    - SHTabQuant
  - Recommended: Construction
    - COMP 700-050-03
- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**
- Other
- Standards
- Specifications

#### Plan Detail and/or Tech Spec Required
- Prep & Doc Manual Chapter(s): 7, 13

#### TRNS*PORT Category (DRAFT FIELD):
- 0300  Signing and Pavement Markings

#### Status
- Struct. 700-38-AAB  SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE)  AS

### Unit Descriptions

- **AA** = Length Of Sign Truss
  - 01 (20 Or Less)
  - 02 (21 - 40)
  - 03 (41 - 60)
  - 04 (61 - 80)
  - 05 (81 - 100)
  - 06 (101 - 120)
  - 07 (121 - 140)
  - 08 (141 - 160)

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**Details and Structure:** Items 700 to 799  
Page 8 of 148
B = Square Footage Of Sign Panel

1  (100 Or Less)
2  (101 to 200)
3  (201 to 300)
4  (301 to 400)
5  (401 to 500)
6  (501 to  600)
7  (601 to 700)
8  (Over 700)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
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**700- 39- AB** SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE

| Unit | AS | Accuracy | Assembly | PlanQuantity? | no |

Details and Structure: Items 700 to 799
Standards valid through 12-31-06

Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

<table>
<thead>
<tr>
<th>Related Items</th>
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Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0300    Signing and Pavement Markings

Struct.  700- 39- AB    SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE  AS

A = Length Of Cantilever
1 (20 Or Less)
2 (21 - 30)
3 (31 - 40)
4 (41 - 50)
5 (51 - 60)
6 (61 - 70)
7 (71 - 80)
8 (81 - 90)

B = Square Footage Of Sign Panel
1 (50 Or Less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 - 250)
6 (251 - 300)
7 (Over 300)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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### 700-46-AB EXISTING SIGN

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#### Notes
Selected items blocked; B=1 & 2 valid through 6-30-07; B=3 & 4 valid through 12-31-07. Replaced by 700-20 to 700-23 items

#### Details
The REMOVE item includes the removal of the sign panels and the complete support assembly.
The RELOCATE item includes the reinstallation of the complete assembly at the location shown in the plans.
The INSTALL item includes the installation of the assembly, at the location shown in the plans. Includes the breakaway base and foundation, if required for installation of the new assembly. For a multi-post assembly, the number and size of the post and the average post length must be shown in the plans.

#### Related Items

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<th>Recommended</th>
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#### Documentation

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#### References

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#### TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

#### Status

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Details and Structure: Items 700 to 799
2 (Relocate)
3 (Install)

B = Sign Assembly Type
1  (Single Post) valid through 6/07
2  (Multi-Post) valid through 6/07
3  (Overhead Truss) valid through 12/07
4  (Overhead Cantilever) valid through 12/07
5  (Span Wire)
6  (Bridge Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
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700- 48- AB  SIGN PANEL

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

Notes

Details

This item is for the sign panel only. For posts, structures, etc, refer to other Section 700 items.

The FURNISH AND INSTALL item includes the sign panel and materials required for installation. The INSTALL item includes the materials required for installation. The sign panel will be furnished. The OVERLAY item includes the sign panel and the materials required for installation. The RELOCATE item includes the removal of the sign panel and the reinstallation at the location noted in the plans. The REPLACE item includes the new sign panel, the removal of the existing panel and the installation of the new panel. The REMOVE item includes the removal of the existing sign panel.

Related Items

Required
Design SHTabQuant
Construction Refer to Comp Book

Recommended
Design COMP 700-050-03
Construction

Forms

Documention

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other

Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13

Status

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
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<tr>
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### 700-70- SIGN, LIGHTED OVERHEAD - BRIDGE MOUNTED

<table>
<thead>
<tr>
<th>Unit</th>
<th>AS</th>
<th>Accuracy</th>
<th>Assembly</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

#### Notes
Includes sign panels, overhead structure, sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Complete design and details of the structure and connections to the bridge must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

#### Related Items
- **Required**
  - **Design**: SHTabQuant
  - **Construction**: Refer to Comp Book

- **Recommended**
  - **Design**: COMP 700-050-03
  - **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**: Design, Construction
- **Other Standards**: Specifications
- **Prep & Doc Manual Chapter(s)**: 7, 13

#### TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

#### Structure
- 700-70- SIGN, LIGHTED OVERHEAD - BRIDGE MOUNTED

#### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

#### Item
- **0700 70**: SIGN LIGHTED OVERHEAD, BRIDGE MOUNTED

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>SIGN LIGHTED OVERHEAD, BRIDGE MOUNTED</td>
<td>AS</td>
<td>1/1/2007</td>
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<td></td>
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### 700-82- OVERHEAD SIGN - SPAN WIRE MOUNTED

<table>
<thead>
<tr>
<th>Unit</th>
<th>AS</th>
<th>Accuracy</th>
<th>Assembly</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

#### Notes
This item includes sign panels, poles, span wire assembly and other incidentals required for a complete assembly. The type and length of the poles and the size of the span wires...
must be shown in the plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Construction</strong></td>
</tr>
</tbody>
</table>

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

### TRNS*PORT Category (DRAFT FIELD):**

0300  Signing and Pavement Markings

### Status

- **Struct.**: 700-82- OVERHEAD SIGN- SPAN WIRE MOUNTED AS

### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 82</td>
<td>OVERHEAD SIGN, SPAN WIRE MOUNTED</td>
<td>AS</td>
<td>1/1/2007</td>
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<td></td>
<td>$4,416.67</td>
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### 700-83- OVERHEAD SIGN- BRIDGE MOUNTED

<table>
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<th>Unit</th>
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<th>Accuracy</th>
<th>Assembly</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

### Notes

- **Details**: This item includes sign panels, overhead structure, and incidentals required for a complete assembly. Complete design and details of the structure and connections to the bridge must be shown in the plans.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Construction</strong></td>
</tr>
</tbody>
</table>

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**

### TRNS*PORT Category (DRAFT FIELD):**

0300  Signing and Pavement Markings

### Status

---

**Details and Structure**: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 83</td>
<td>OVERHEAD SIGN, BRIDGE MOUNTED</td>
<td>AS</td>
<td>1/1/2007</td>
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700-89-AA ELECTRIC POWERED SIGN

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Details

NOTE: not to be used for ITS projects; refer to 780 items for ITS systems. Refer to 699 items for Internally Illuminated signs.

Includes the complete sign assembly, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

"Special" signs to be approved by Roadway Design. Plan Details and/or Tech Specs required to provide materials, construction, and payment information.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

Documentation

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s): 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 700-89-AA ELECTRIC POWERED SIGN EA

AA =
2 (Blank-Out)
3 (Changeable Message - Fiber Optics)*
4 (Changeable Message - Light Bulb Matrix)*
5 (Changeable Message - Electromagnetic Disk Matrix)*
6 (Changeable Message - Drum - Type)*
7 (Changeable Message - Vane Matrix)*
8 (Lane Control - Vane Matrix)
9 (Changeable Message - Flap Type)*
10 (Changeable Message - Tricolor)*
11 (Special)**

Notes

* Consider ITS (780 items) for changeable message signs
** Special requires Tech Spec and/or Plan details. Do not use "Special" for Radar Display Sign Units;
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 89 2</td>
<td>SIGN, ELECTRIC POWERED, BLANK OUT</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$4,000.00</td>
</tr>
<tr>
<td>0700 89 3</td>
<td>ELECTRIC POWERED SIGN, CHANGEABLE MESSAGE, FIBER OPTIC</td>
<td>EA</td>
<td></td>
<td>6/1/2008</td>
<td>12/31/2008</td>
<td>$80,000.00</td>
</tr>
</tbody>
</table>

### 700-90-AB SIGN, FLASHING BEACON

**Notes**

Includes the complete sign, flashing beacon, flashing beacon controller, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

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<tr>
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<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
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<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index No. 17344, 17882, 17881</td>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Status**

**Struct.** 700-90-AB SIGN, FLASHING BEACON AS

A = Operation
1 (Furnish & Install)
2 (Relocate)
3 (Remove)

B = Sign Type
1 (Ground Mount)
2 (Overhead Mount)
3 (Bridge Mount)
4 (Span Wire)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 700-95- MOTORIST INFORMATION SIGN (BLUE)

<table>
<thead>
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<th>TSP/Detail Date</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>$3,014.55</td>
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<td>AS</td>
<td>1/1/2007</td>
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<td></td>
<td>$1,801.68</td>
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<tr>
<td>0700 90 13</td>
<td>SIGN FLASHING BEACON, F&amp;I, BRIDGE MOUNT</td>
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<td>1/1/2007</td>
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<tr>
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<td>$2,330.00</td>
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<td>1/1/2007</td>
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<td>AS</td>
<td>1/1/2007</td>
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<td>$394.48</td>
</tr>
</tbody>
</table>

#### Notes
- **Inactive structure**: Maintenance item (?) intended for blue information signs and/or logo program.

#### Related Items
- **Required**:
- **Recommended**: Location in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

#### Forms
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

#### Documentation
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**:
- **Other**:
- **Standards**:
- **Specifications**:
- **Prep & Doc Manual Chapter(s)**

### TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

#### Status
- **Inactive Structure**

#### Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 701-1A-BCD AUDIBLE AND VIBRATORY PAVEMENT MARKINGS

<table>
<thead>
<tr>
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<th>Description</th>
<th>Unit</th>
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<th>PlanQuantity?</th>
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<td>701-1A-BCD</td>
<td>AUDIBLE AND VIBRATORY PAVEMENT MARKINGS</td>
<td>Mixed</td>
<td>Refer to item structure and details</td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes
- **Effective with the September 2008 letting; replaces Developmental 906-701 items**
Refer to May 9, 2008 Estimates Bulletin 08-07/Roadway Bulletin 08-05.

For use on "all rural construction projects, excluding limited access facilities". More specifically, "OUTSIDE EDGE line for all 2-lane and multi-lane undivided rural projects" (From FDOT Executive Committee Policy, approved March 19, 2008)

CENTERLINE: Audible and Vibratory pavement markings should be used on centerline of two lane rural roadways ONLY when there is a history of centerline cross over crashes.

Other applications: Audible and Vibratory markings shall also be considered on flush shoulder roadways within Urban 2 and Urban 3 boundaries; noise is the primary consideration in these areas.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

Accuracy: GM and NM items are measured to 1/1000 of a mile.

---

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
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</tr>
<tr>
<td>Construction</td>
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</tr>
</tbody>
</table>

**Forms**

- Design
- Construction

**Documentation**

- Design
- Construction

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Status**

**Struct.** 701- 1A-BCD AUDIBLE AND VIBRATORY PAVEMENT MARKINGS Mixed

A= Class
1 (Standard)

B= Color
1 (White)
2 (Yellow)

C= Type of Marking
1 (Solid) NM
2 (Skip) GM

D= Width
1 (6")

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 700 to 799
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0701 1111</td>
<td>AUDIBLE &amp; VIBRATORY PAVEMENT MARKING, STANDARD, WHITE, SOLID, 6&quot;</td>
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<td>0701 11121</td>
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<td>GM</td>
<td></td>
<td>9/1/2008</td>
<td></td>
<td>$0.00</td>
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<tr>
<td>0701 11211</td>
<td>AUDIBLE &amp; VIBRATORY PAVEMENT MARKING, STANDARD, YELLOW, SOLID, 6&quot;</td>
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<td>9/1/2008</td>
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<td>0701 11221</td>
<td>AUDIBLE &amp; VIBRATORY PAVEMENT MARKING, STANDARD, YELLOW, SKIP, 6&quot;</td>
<td>GM</td>
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<td>9/1/2008</td>
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<td>$0.00</td>
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</tbody>
</table>

### 702-???

**WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS**

| Notes | Future Effective Date: See 906-702 items. |

#### Details

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

#### References

PPM Chapter
Other Standards
Specifications
Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):**

0300 Signing and Pavement Markings

**Status**

**Struct.**

702-???

**Notes**

WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS

---

**705- 10- A**

**OBJECT MARKER**

| Notes | New items to be effective January 2008. |

#### Details

Object Markers are to be used to mark obstructions within or adjacent to the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the MUTCD, Chapter 3C.

Refer to Delineators for marking the roadway alignment.
Required Recommended

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
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<td>COMP 700-050-03</td>
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### Documentation

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<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### Standards

Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

### Specifications

Prep & Doc Manual Chapter(s) 7, 13

### TRNS*PORT Category (DRAFT FIELD): 0300

Signing and Pavement Markings

### Status

**Struct. 705-10- A**

**OBJECT MARKER**

EA

A= Type*

1 (Type 1)

2 (Type 2)

3 (Type 3)

4 (Type 4)

### Notes

*Note: The Type is defined in the MUTCD, Chapter 3C.

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
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### 705-11- A

**DELINEATOR**

### Notes


### Details

Delineators are to be used along the side of the roadway to indicate the alignment of the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the Plans Preparation Manual (PPM) Vol 1, Chapter 7, and the MUTCD, Chapter 3D.

Refer to Object Markers to mark obstructions.

### Related Items

<table>
<thead>
<tr>
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<tr>
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<td>Construction</td>
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### Documentation

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<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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### Standards

- Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

### Specifications

- **Struct. 705-11-A**
  - **DELINEATOR**
  - **EA**

  **A= Type**
  - 1 (Flexible Tubular)
  - 2 (non-Flexible)
  - 3 (Flexible High Visibility Median)
  - 4 (Flexible High Performance)

### Notes

- **Status**
  - **Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**

- **Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

- **Refer to 710-90 for final surface payment.**

- **Use Type B, unless otherwise shown in the plans. Use Pavement markers to supplement lane lines and gore markings, as shown on design standards.**

### Related Items

- **Required**

  - **Design**
    - SHTabQuant

  - **Construction**
    - Refer to Comp Book

- **Recommended**

  - **Design**
    - COMP 700-050-03

  - **Construction**

### References

- **PPM Chapter**
  - Vol 1, 7.2.9

- **Other**

- **Standards**
  - Index No. 17345 (Object Markers) 17352

- **Specifications**

- **Prep & Doc Manual Chapter(s)**
  - 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- 0300 Signing and Pavement Markings

### The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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### 706-3-

**RETRO-REFLECTIVE PAVEMENT MARKER**

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### Notes

- **Details**
  - Refer to 710-90 for final surface payment. Use Type B, unless otherwise shown in the plans. Use Pavement markers to supplement lane lines and gore markings, as shown on design standards.

### Related Items

- **Required**

  - **Design**
    - SHTabQuant

  - **Construction**
    - Refer to Comp Book

- **Recommended**

  - **Design**
    - COMP 700-050-03

  - **Construction**

### References

- **PPM Chapter**
  - Vol 1, 7.2.9

- **Other**

- **Standards**
  - Index No. 17345, 17352

- **Specifications**

- **Prep & Doc Manual Chapter(s)**
  - 7, 13

### TRNS*PORT Category (DRAFT FIELD):

- 0300 Signing and Pavement Markings
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 709-1A-BCD TRAFFIC STRIPE- TWO REACTIVE COMPONENTS

#### Notes

Effective January 2007 letting. Replaces all other 709 items.

#### Details

Consists of "Two Reactive Component Traffic Stripe and Markings" used in areas representing final and work zone pavement markings. Refer to the Specification for the complete Method of Measurement.

Broken (skip) stripes shall consist of a succession of solid stripes.

Measurement and Payment for Pavement Markings:

**LINEAR FOOT ITEMS:** Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

**GROSS MILE & NET MILE ITEMS:** Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

**REMOVAL ITEM! (A=7):** The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17 for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

**YIELD LINE:** Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

**CONTRASTING ALTERNATING SKIP:** Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

**MESSAGES:** Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.
Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

<table>
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<th>Related Items</th>
<th>Required</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

**Struct.** 709- 1A-BCD TRAFFIC STRIPE- TWO REACTIVE COMPONENTS EA, LF, GM,

A= Class
1 (Standard)
7 (Remove) SF Note: When A=7, BCD= Blank

B=Color
1 (White)
2 (Yellow)
3 (Black)

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted/Guideline) LF

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")
# Topic No. 600-000-002
## Basis of Estimates

2009 Edition  
October 6, 2008

<table>
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<th>Item</th>
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### 710-1A-BCD PAINTED PAVEMENT MARKINGS

**Unit**  
Mixed  
Accuracy  
Refer to item structure and details  
PlanQuantity?  
no

**Notes**  
Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

**Details**  
Consists of paint used in areas representing final and work zone pavement markings. Refer to the Specification for the complete Method of Measurement. Broken (skip) stripes shall consist of a succession of solid stripes.

******************

Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

---

Details and Structure: Items 700 to 799  
Page 25 of 148
GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications. The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.
1 (Yellow) C=1, 2, 3, 4, 5, 9
3 (Black)
4 (Blue)
C= Type of Marking
1 (Solid) NM; D = 1
2 (Solid) LF; D = 2, 3, 4, 5
3 (Skip) GM; D= 1 or 2*
4 (Skip) LF; D= 1 or 2*
5 (Dotted / Guide line) LF; D=1*
6 (Message) EA; D=0, Includes YIELD message
7 (Arrows) EA; D=0
8 (Yield Line) LF; D=0 see details above
9 (Island Nose) SF; D=0

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")

Notes  *See details above

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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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0710 11342 PAINTED PAVEMENT MARKINGS, STANDARD, BLACK, SKIP, 8" LF 1/1/2007 $1.45
0710 11421 PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, SOLID, 6" LF 1/1/2007 $1.03
0710 11460 PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, MESSAGE EA 1/1/2007 $100.00
0710 17 PAINTED PAVEMENT MARKINGS, REMOVE SF 1/1/2007 12/31/2008 $1.45

710-90- PAINTED PAVEMENT MARKINGS- FINAL SURFACE

Unit LS/LS Accuracy Lump Sum PlanQuantity? yes

Notes
Includes payment for final surface pavement markings (2 applications), including RPMs (1 application).
DOES NOT include pavement markings used for Maintenance of Traffic. Must continue to use other 710 items for MOT applications.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items

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<td><strong>Design</strong></td>
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<td><strong>Construction</strong></td>
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Documentation

| **Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| **Construction** | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

References

| PPM Chapter | Other |
| Standards | Specifications |

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 710-90- PAINTED PAVEMENT MARKINGS- FINAL SURFACE LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Details and Structure: Items 700 to 799
Item Description Unit TSP/Detail Valid Date Obsolete Date LRE Ref Price
0710 90 PAINTED PAVEMENT MARKINGS, FINAL SURFACE LS 1/1/2007 $50,332.24

711- 1A-BCD THERMOPLASTIC

Unit Mixed Accuracy Refer to item structure and details PlanQuantity? no

Notes Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

Details Consists of paint used in areas representing final and work zone pavement markings. Refer to the Specification for the complete Method of Measurement. Broken (skip) stripes shall consist of a succession of solid stripes.

Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications. The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

SUN PASS LANES: The 3-9 skip, 12" wide, per GM is used to designate a sun pass lane or similar approach to a toll plaza.

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.
TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

### Required Specifications

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- **A**: Class
  - 1 (Standard)
  - 2 (Refurbishment)
  - 3 (Hot Spray)
  - 4 (Preformed)
  - 7 (Remove) SF Note: When A=7, BCD=blank

- **B**: Color
  - 1 (White)
  - 2 (Yellow)*
  - 3 (Black)**
  - 4 (Blue)***
  - *when B=2, C=1, 2, 3, 4 or 5
  - **B=3 not valid as of 12-15-05; use 710 items.
  - ***when B=4, C=2, 6

- **C**: Type of Marking
  - 1 (Solid) NM
  - 2 (Solid) LF
  - 3 (Skip) GM*
  - 4 (Skip) LF*
  - 5 (Dotted/Guideline) LF**
  - 6 (Message) EA *** Includes Yield Messages
  - 7 (Arrows) EA ***
  - 8 (Yield Line) LF ***
  - *when C=3, D=1, 2, or 3
  - **when C=5, D=1
  - ***when C=6, 7, or 8, D=0

- **D**: Width
  - 1 (6")
  - 2 (8")
  - 3 (12")
  - 4 (18")

---

### Status

**Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**

**Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

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### Related Items

**Forms**
- Design: SHTabQuant
- Construction: 700-050-52

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

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### References

**PPM Chapter**
- Other

**Standards**
- Specifications

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### TRNS*PORT Category (DRAFT FIELD)
- 0300 Signing and Pavement Markings

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**Details and Structure**: Items 700 to 799
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**713-1AA-BCD**  
**PAVEMENT MARKING- PREFORMED TAPE**

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<th>Refer to item structure and details</th>
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**Notes**

Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

**Details**

Preformed Tape to be considered for use on concrete surfaces.

High performance tapes are required for longitudinal markings; standard tapes are limited to transverse lines, arrows, and messages.

Refer to the Specification for the complete Method of Measurement.

Broken (skip) stripes shall consist of a succession of solid stripes.

------------------

Measurement and Payment for Pavement Markings:

**LINEAR FOOT ITEMS:** Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

**GROSS MILE & NET MILE ITEMS:** Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the
last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.

The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings, include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

### Related Items

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| Documentation | Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

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**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

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**Details and Structure:** Items 700 to 799
1 (White)
2 (Yellow)
3 (Black)
4 (Blue)
5 (White w/Black Contrast)**

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted / Guideline) LF
6 (Messages) EA, D=0
7 (Arrows) EA, D=0

D= Width
0 when C=6, 7
1 (6")
2 (8")
3 (9")**
4 (12")
5 (18")
6 (24")

Notes
Note (Effective 1-1-2009) 6" stripe paid per NM or GM only; 8, 12, 18, and 24" stripe paid per LF.
**Note (effective 1-1-2007) : 9" black/white contrast will be paid per linear foot.
Note (through 12-31-2008): Mile (kilometer) units only valid with 6" or 8" stripes
*See details for guidance on class selection

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### 714-1-ABC  MOTORIST AID CALL BOX

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#### Notes
For A=3-7, BC=00, effective 7/08 letting

#### Details
New installations- estimate quantity on basis of 2 per mile (1 per 804 meters) in project length for rural areas.

NOTE: Per Index, concrete pad is paid under Class II concrete, Misc.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
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<th>Required</th>
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<tr>
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#### References

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#### Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

### TRNS**PORT Category (DRAFT FIELD):** 0200 Roadway

### Status
Inactive Structure

### Structure
714-1-ABC  MOTORIST AID CALL BOX  AS

A = Operation
1 (Furnish & Install)
2  (Furnish)
3 (Install) BC=00
4 (Modify Existing Roadside Terminal) BC=00
5 (Relocate Existing Roadside Terminal) BC=00
6 (Remove) BC=00
7 (Refurnish) BC=00

B = Installation Type
1 (Roadside Call Terminal)
2 (Call Box Assembly)
3 (Central Terminal)

C = Form
1 (Coded Message, Radio)
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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714- 2- A  MOTORIST AID CONSOLE

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Forms  
Design
SHTabQuant  COMP 700-050-03

Construction
Refer to Comp Book

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)  7, 13

Status  Inactive Structure

Struct.  714- 2- A  MOTORIST AID CONSOLE  EA

A = Form
1 (Coded Message, Radio)
2 (Coded Message, Wire)
3 (Voice, Radio)
4 (Voice, Wire)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**714- 3- AB  MOTORIST AID COMPONENTS (F&I) CONSOLE**

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#### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

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#### Documentation

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#### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

---

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

**Status** Inactive Structure

**Struct.** 714- 3- AB  MOTORIST AID COMPONENTS (F&I) CONSOLE EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) Not Valid W/ B= 2, 3, & 4.

B = Form
1 (Antenna)
2 (290' Guyed Tower)
3 (190' Guyed Tower)
4 (190' Self Support Tower)
5 (Console)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**714- 4-ABB  MOTORIST AID MICROWAVE COMPONENT**

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#### Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed
for payment under this item.

Related Items

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Forms

Design: Refer to Comp Book

Construction

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s): 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status: Inactive Structure

Struct. 714- 4-ABB MOTORIST AID MICROWAVE COMPONENT EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

BB =
01 (10,000 F9 Microwave 1.9 GHz)
02 (1,600 F9 Microwave 2.9 GHz)
03 (800 F9 Microwave 2.1 GHz)
04 (10,000 F9 Microwave 6.5 GHz)
05 (Master Alarm System)
06 (District Alarm System)
07 (Alarm Monitor)
08 (6' Grid Microwave Antenna)
09 (6' Grid Microwave Antenna)
10 (8' Grid Microwave Antenna)
11 (10' Grid Microwave Antenna)
12 (72 MHz Antenna)
13 (150-170 MHz Antenna)
14 (40-50 MHz Antenna)
15 (450-460 MHz Antenna)
16 (CB Antenna)
17 (1/2" Foam Connectors)
18 (7/8" Air Connectors)
19 (Dehydrator And Manifold)
20 (1 5/8" Air Connectors)
21 (72 MHz Base Station)
22 (Waveguide Connectors)
23 (DTMF Call Unit)
24 (DTMF Card / Phone)
25 (Power Divider Harness)
26 (Transmitter Combiner)
27 (Receiver Multicoupler)
28 (6 GHz Digital Radio)
29 (10 GHz Digital Radio)
30 (8' Solid Microwave Antenna)
31 (6' Solid Microwave Antenna)
32 (4' Solid Microwave Antenna)
33 (72 MHz Antenna, High Gain)
34 (Phone Ringing Generator)
35 (10 GHz Waveguide Connector)
36 (Phone System)
37 (Channel Modem, Analog)
38 (Channel Modem, Digital)
39 (Pressurized Connector)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status  Inactive Structure

Struct.  714-5-ABB  MOTORIST AID MICROWAVE TOWER  EA

A = Operation
1 (Furnish & Install)
2 (Transport)
3 (Disassemble)
4 (Modify) BB = 00
BB = Tower Height
10 (51' - 75')
11 (76' - 100')
12 (101' - 125')
13 (126' - 150')

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 7- A  MOTORIST AID TRANSMISSION LINES

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**Notes**

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<td>Construction</td>
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**Documentation**

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**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

Inactive Structure

**Struct.**

714- 7- A  MOTORIST AID TRANSMISSION LINES LF

A =
1 (1/2" Foam Transmission Line)
2 (7/8" Air Transmission Line)
3 (1 5/8" Air Transmission Line)
4 (2.01" X 1.16" Elliptic Waveguide)
5 (7/8" Foam Transmission Line)
6 (1.32" X .80" 10 GHz Elliptical Waveguide)
7 (1 5/8" Foam Transmission Line)

**Notes**

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<td>Construction</td>
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**Forms**

- Design: SHTabQuant
- Construction: COMP 700-050-03

**Documentation**

- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s):** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status:** Inactive Structure

**Struct.** 714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

A = Area In Square Feet
1 ( <100 Sq. Ft. Shelter)
2 (100-125 Sq. Ft. Shelter)
3 (126-150 Sq. Ft. Shelter)
4 (151-175 Sq. Ft. Shelter)
5 (176-200 Sq. Ft. Shelter)
6 (201-250 Sq. Ft. Shelter)
7 (251-300 Sq. Ft. Shelter)
8 (301-400 Sq. Ft. Shelter)
9 ( >400 Sq. Ft. Shelter)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 9- A MOTORIST AID TECHNICAL SUPPORT

<table>
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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed.
for payment under this item.

### Related Items

**Forms**

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**Notes**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

7, 13

**TRNS*PORT Category (DRAFT FIELD):**

0200 Roadway

**Status**

Inactive Structure

**Struct.**

714- 9- A MOTORIST AID TECHNICAL SUPPORT EA

A =
1 (Training Session Number 1)
2 (Training Session Number 2)
3 (Training Session Number 3)
4 (Testing Callboxes)
5 (Control Console)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 714- 73-

**RELAY STATION COMMUNICATION ASSEMBLY**

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**References**

PPM Chapter

Other

Standards

Specifications

**Prep & Doc Manual Chapter(s)**

Refer to Comp Book

**Prep & Doc Manual Chapter(s)**

7, 13

Details and Structure: Items 700 to 799
### 714-73- RELAY STATION COMMUNICATION ASSEMBLY

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**Details**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Related Items**
- **Forms**
  - **Required**
    - Design: SHTabQuant
  - **Recommended**
    - Design: COMP 700-050-03

**References**
- PPM Chapter, Design
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

### 714-74- CONTROL STATION COMMUNICATION ASSEMBLY

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**Details**
- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**
- **Forms**
  - **Required**
    - Design: SHTabQuant
  - **Recommended**
    - Design: COMP 700-050-03

**References**
- PPM Chapter, Design
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

### 714-75- ABB

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**Details**
- Refer to PPM for recommended pay item plan note.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Forms**
  - **Required**
    - Design: SHTabQuant
  - **Recommended**
    - Design: COMP 700-050-03

**Documentation**
- Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
### Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

#### PPM Chapter

#### Other

#### Standards

#### Specifications

Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)
6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status** Inactive Structure

**Struct.** 714-75-ABB MOTORIST AID MICROWAVE EA

- A =
  - 1 (Spares)
  - 2 (Test Equipment)

- BB =
  - 01 (Transmitter Baseband Combiner Card)
  - 02 (Transmitter Baseband Amplifier Card)
  - 03 (Transmitter Logic Card)
  - 04 (Receiver Splitter Card)
  - 05 (Receiver Baseband Amplifier Card)
  - 06 (Receiver Logic Card)
  - 07 (4w/4w Baseband Bridge)
  - 08 (Alarm Card)
  - 09 (Ringing Generator 5w)
  - 10 (Hybrid Term Set)
  - 11 (FXO Signaling Adaptor)
  - 12 (FXS Signaling Adaptor)
  - 13 (Bypass Card W/Attenuators)
  - 14 (Line Pilot Sync Unit)
  - 15 (Two-Step Group Translator)
  - 16 (Dual Hybrid Card Kit)
  - 17 (Equalizer / Timer For Battery Charger)
  - 18 (RF Power Meter)
  - 19 (RF Power Sensor)
  - 20 (Tracking Generator)
  - 21 (Selective Level Meter)
  - 22 (Frequency Counter)
  - 23 (RF Attenuator 20w, 30 Db)
  - 24 (Variable Attenuator, 6-66 Db)
  - 25 (Trans, Imparrment Measurement Set -TIMS)
  - 26 (Digital Multimeter)
  - 27 (4w/4w DTMF Bridge)
  - 28 (Test Fixtures)
  - 29 (Transmitter Power Amplifier)
  - 30 (Receiver RF Amplifier)
  - 31 (Transmitter Oscillator)
  - 32 (Transmitter Modulator)
  - 33 (Receiver Local Oscillator)
  - 34 (Receiver If Amplifier)
  - 35 (Remote Alarm Terminal)
  - 36 (Selective Call Unit)
  - 37 (Channel Modem)
  - 38 (HF Combiner)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-1-AB LIGHTING-CONDUCTORS

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**Notes**

Effective for projects let January 2007; replaces 715-1-ABC and 2715-11A-BCC.

**Details**

Includes conductors as per the plans and standard indexes. Design quantity shall be based on the length of single conductor in horizontal measurement.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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*Selected Items may require Tech Spec and/or Plan Detail

**Prep & Doc Manual Chapter(s)**

6, 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715-1-AB LIGHTING-CONDUCTORS LF

A= Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)*  
4 (Relocate)*  
5 (Adjust/Modify)*  
6 (Remove & Dispose)* Note: Contractor takes ownership  
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership

---

Details and Structure: Items 700 to 799
8 (Place out of Service)*
9  OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0  

B= Size
1 (No. 10 or smaller)
2 (No 8 to No. 6)
3 (No. 4 to No. 2)
4 (No. 1 to No. 0)
5 (No. 1/0 to No. 3/0)
6 (No. 4/0 or larger)
9 (Special)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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**715- 2- AB**

**LIGHTING CONDUIT**

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</table>

**Notes**

For highway lighting applications only. Includes conduit, elbows, sweeps, connecting hardware, trenching and backfill as per the plans and standard indexes. Also includes the cost of restoring cut pavement, sidewalks, sod, etc. to its original condition. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as Underground. Underpavement should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. under EXISTING PAVEMENT. Additional conduit placed for future use should be detailed in the plans; tabulate quantity as furnished & installed conduit.
When Furnish item is used, plans or specs should detail location (maintenance yard or other) for delivery of product.

**Related Items**

**Required** | **Recommended**
--- | ---
**Forms**
| Design | SBTBLT | COMP 700-050-03
| Construction | Refer to Comp Book |

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

- PPM Chapter
- Other
- Standards | Index No. 17721
- Specifications
- Prep & Doc Manual Chapter(s) | 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715- 2- AB LIGHTING CONDUIT LF

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Location
0
1 (Underground)
2 (Underpavement Sawcut) Note: Only when sawcutting is necessary for locations under EXISTING PAVEMENT
3 (Surface Mount)

**Notes** See details above for furnish item

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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**715- 4-ABC LIGHT POLE COMPLETE**

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**Notes** Effective January 2008; replaces 715-4A-BCC

**Details**

For standard light pole designs; poles listed on Qualified Products List (QPL). If a special foundation is needed, select the pay item based on the pole type; detail the special foundation in the plans.

---

Details and Structure: Items 700 to 799
Use C=Custom only when the pole height is non-standard. Remaining design standards apply.

**************

For Special Design (non-standard) light poles, refer to 715-5AB-CDD.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**: 17501, 17503, 17515
- **Recommended**: Structures Manual, Vol 9

**Forms**

- **Design**: SBTBLT
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: Refer to Comp Book
- **Other**: Structures Manual, Vol 9

**Specifications**

- *Selected Items may require Tech Spec and/or Plan Detail*

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 715-4-ABC

- **LIGHT POLE COMPLETE**
- **EA**

**A= Operation**
- 0 (Furnish & Install Standard Pole, Special Foundation) *foundations other than as shown on index 17515; details in plans*
- 1 (Furnish & Install) Standard pole, standard foundation
- 2 (Furnish)
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 6 (Remove) BC=00

**B= Wind Speed (mph)**
- 1 (150)
- 2 (130)
- 3 (110)

**C= Pole Height (feet)**
- 1 (40)
- 2 (45)
- 3 (50)
- 9 (Custom height)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
## Item Description

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### 715-5 AB LUMINAIRE & BRACKET ARM

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**Notes**

Includes the bracket arm, luminaire with lamp and all necessary mounting hardware as per the plans and indexes.

**Related Items**

- Required: SBTBLT
- Recommended: COMP 700-050-03
### Standards

**Index No.** 17500, 17501

### Specifications

**Struct. 715-5-AB LUMINAIRE & BRACKET ARM EA**

- **A** = Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
  - 4 (Relocate)
  - 5 (Remove)
- **Code B = 0 If A = 3, 4, Or 5**
- **B** = Material Type
  - 1 (Aluminum)
  - 2 (Galvanized Steel)

### Notes

**Status**

- **Struct. 715-5-AB**
  
  **LUMINAIRE & BRACKET ARM**
  
  **EA**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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### Related Items

**Forms**

- **Required**
  - Design: SBTBLT
- **Recommended**
  - Construction: COMP 700-050-03

**Documentation**

- **Design**
  - Refer to Comp Book
- **Construction**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Record final quantity on the tabulation sheet (plans) or computation form

### Details

Includes all components listed in the Standards and all external and internal conduit and conductors for the service.
Standards Index No. 17504
Specifications
Prep & Doc Manual Chapter(s) 7, 13

References
PPM Chapter
Other

Status
Struct. 715-7-AB LOAD CENTER EA

Notes
(comp book).

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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715-10- A LIGHT POLE FOUNDATION

Notes
Details
Includes the foundation and anchor bolts with lock nuts and washers as per the plans and standard indexes. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items
Forms
Required
Design SBTBLT
Construction Refer to Comp Book

Recommended
Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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**715-11-ABC LUMINAIRE**

**Notes**

Includes the luminaire with lamp and necessary mounting hardware as per the plans and standard indexes.

**Related Items**

**Forms**

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**Documentation**

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**References**

**PPM Chapter**

**Other**

**Standards** Index No. 17500, 17501, 17502, 17505

**Specifications**

**Prep & Doc Manual Chapter(s)** 7, 13
### Structural Information

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install) BC=00  
4 (Relocate) BC=00  
5 (Remove) BC=00  
6 (Repair & Reinstall) BC=00  

B = Classification  
1 (Roadway)  
2 (Underdeck)  
3 (Sign)  

C = Type  
1 (Cobra Head)  
2 (High Mast)  
3 (Pole Top)  
4 (Shoe Box)  
5 (Wall Mount)  
6 (Pendant Hung)  
7 (Sign Mount)  
8 (Flood)  
9 (Special)*

### Notes

*Selected Items require Tech Spec and/or Plan Details.

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

### Status

**Struct.** 715-11-ABC **LUMINAIRE** **EA**

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**715- 14- AB LIGHTING- PULL BOX**

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity?**: no

**Notes**: Includes the pull box and cover as per plans and standard indexes.

**Details**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Related Items**

- **N/A**

**Required Forms**

- **Design**: SBTBLT  
- **Construction**: Refer to Comp Book

**Recommended Forms**

- **Design**: COMP 700-050-03  
- **Construction**: N/A

**Documentation**

- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: N/A  
- **Other**: N/A  
- **Standards**: Index No. 17500, 17503  
- **Specifications**: N/A

**Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD)**: 0400 Lighting

**Struct.**: 715- 14- AB LIGHTING- PULL BOX EA

A = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Relocate)  
5 (Remove)
6 (Furnish & Install Cover Only)
7 (Repair)

**B = Placement**
1 (Roadside) - Moulded
2 (Sidewalk)
3 (Embedded) - Bridge
4 (Surface Mount)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
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**Details and Structure: Items 700 to 799**
### 715-19-ABC  HIGH MAST LIGHT POLE, COMPLETE

**Unit**: EA  
**Accuracy**: Each  
**PlanQuantity?**: no

**Notes**
- Effective January 2008; replaces 715-19A-BBB

**Details**

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**Documentation**
- Design
- Construction  
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications
- Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0400  Lighting

### Status

**Struct.** 715-19-ABC  
**A** = Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install) BC=00  
6 (Remove) BC=00  
**B** = Wind Speed (mph)  
1 (150)  
2 (130)

---

**Details and Structure: Items 700 to 799**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, POLE 120'</td>
<td>EA</td>
<td>1/1/2008</td>
<td></td>
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<td>$42,500.00</td>
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<tr>
<td>0715 19119</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-150 MPH, CUSTOM HEIGHT</td>
<td>EA</td>
<td>1/1/2008</td>
<td></td>
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<td>$57,478.12</td>
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<tr>
<td>0715 19121</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-130 MPH, POLE 80'</td>
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<td>1/1/2008</td>
<td></td>
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<td>$20,000.00</td>
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<tr>
<td>0715 19122</td>
<td>HIGH MAST LIGHT POLE, F&amp;I, WIND SPEED-130 MPH, POLE 100'</td>
<td>EA</td>
<td>1/1/2008</td>
<td></td>
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<td>$28,951.69</td>
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<tr>
<td>0715 19129</td>
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<td>EA</td>
<td>1/1/2008</td>
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<td>$20,000.00</td>
</tr>
<tr>
<td>0715 19133</td>
<td>HIGH MAST LIGHT POLE COMPLETE, F&amp;I, WIND SPEED-110 MPH, POLE HEIGHT 120'</td>
<td>EA</td>
<td>1/1/2008</td>
<td></td>
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<tr>
<td>0715 19300</td>
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<tr>
<td>0715 19600</td>
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715- 20- A LIGHTING- SCHEDULED CLEANING

<table>
<thead>
<tr>
<th>Unit</th>
<th>LU</th>
<th>Accuracy</th>
<th>Luminaire</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LU</td>
<td></td>
<td></td>
<td>no</td>
</tr>
</tbody>
</table>

Notes

Details

Related Items

Forms

Design          Required          Recommended
SBTBLT

Construction     Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction     Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

Details and Structure: Items 700 to 799
**Struct. 715-20- A**

**LIGHTING- SCHEDULED CLEANING**

**LU**

A =
1 (Pole Mounted <50')
2 (Underdeck)
3 (Sign Luminaire)
4 (High Mast)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 20 4</td>
<td>LIGHTING - SCHEDULED CLEANING, HIGH MAST</td>
<td>LU</td>
<td>1/1/2007</td>
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<td></td>
<td>$0.00</td>
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</table>

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**715-21-1**

**LUMINAIRE STARTER BOARD**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>SBTBLT</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Details**

**Related Items**

- **Forms**
  - Design: SBTBLT
  - Construction: Refer to Comp Book

- **Documentation**
  - Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**

---

**Struct. 715-21-1**

**LUMINAIRE STARTER BOARD**

**EA**

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 21 1</td>
<td>LUMINAIRE STARTER BOARD</td>
<td>EA</td>
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</table>

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**715-26- A**

**QUICK DISCONNECT PLUG**

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Details**

Details and Structure: Items 700 to 799
Details

Related Items

Required

Recommended

Forms

Design

SBTBLT

COMP 700-050-03

Construction

Refer to Comp Book

Documenta

Design

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. 715-26- A QUICK DISCONNECT PLUG EA

A =
1 (Switch Boxing - For Sign Structure)
2 (Plug Pole Base - High Mast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 26 1</td>
<td>QUICK DISCONNECT PLUG, SWITCH BOXING FOR SIGN</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$595.25</td>
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<tr>
<td>0715 26 2</td>
<td>QUICK DISCONNECT PLUG, PLUG POLE BASE, HIGH MAST</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$325.00</td>
</tr>
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</table>

715-30- AA GROUP RELAMPING (LIGHTING)

Notes

Details

Related Items

Required

Recommended

Forms

Design

SBTBLT

COMP 700-050-03

Construction

Refer to Comp Book

Documenta

Design

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)
**Struct. 715-30- AA GROUP RELAMPING (LIGHTING) LU**

AA =
1 (Mercury Vapor)
2 (High Pressure Sodium)
3 (Metal Halide)
4 (Bridge Mounted HPS)
5 (High Mast/HPS)
6
7
8 (Low Pressure Sodium)
9 (Fluorescent)
10 (Incandescent)
11 (State Furnished Lamps)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 30 5</td>
<td>GROUP RELAMPING, LIGHTING, HIGH MAST/HPS</td>
<td>LU</td>
<td>1/1/2007</td>
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<td>$0.01</td>
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</table>

---

**715-31- AA LIGHTING - ROUTINE MAINTENANCE**

**Notes**

**Details**

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBTBLT</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

**Documentation**

<table>
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<th>Design</th>
<th>Location</th>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**

PPM Chapter
Other Standards Specifications
Prep & Doc Manual Chapter(s)

---
6 (Underdeck)
7 (Load Center)
8 (High Mast Pole)
9 (Overhead Sign Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-34- A LIGHT POLE (MAINTENANCE USE ONLY)

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

This is a Maintenance item. Coordinate with District Maintenance Office.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**

**Forms**
- **Design**
  - Required: SBTBLT
  - Recommended: COMP 700-050-03
- **Construction**
  - Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**
- Design
- Construction

**Prep & Doc Manual Chapter(s)**
- 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**
- 0400 Lighting

**Status**

**Struct. 715-34- A LIGHT POLE (MAINTENANCE USE ONLY) EA**

A =
1 (Furnish New Pole)
2 (Repair A Pole And Furnish For Reuse)

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 715-35- A MAST ARM

| Unit | EA | Accuracy | Each |

**Notes**

---

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Related Items**

**Forms**
- **Design**
  - Required: SBTBLT
  - Recommended: COMP 700-050-03
- **Construction**
  - Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 35 4</td>
<td>MAST ARM, REPAIR</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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</table>

715-36-AB LIGHT POLE FRANGIBLE BASE

<table>
<thead>
<tr>
<th>Notes</th>
<th>Details</th>
<th>Includes the frangible base, attachments, bolts and washers as per the plans and standard indexes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related Items</td>
<td>Required</td>
<td>Recommended</td>
</tr>
<tr>
<td>Forms</td>
<td>Design</td>
<td>Construction</td>
</tr>
<tr>
<td>TRNS*PORT Category (DRAFT FIELD):</td>
<td>0400 Lighting</td>
<td></td>
</tr>
<tr>
<td>Status</td>
<td>Struct.</td>
<td>715-36-AB</td>
</tr>
<tr>
<td>A = Operation</td>
<td>1 (Furnish &amp; Install)</td>
<td>2 (Furnish)</td>
</tr>
</tbody>
</table>

Details and Structure: Items 700 to 799
5 (Leveling In-Place Pole)
B = Type
1 (Shoe Base)
2 (Transformer Base)
3 (Frangible Insert)
4 (Door Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 36 12</td>
<td>LIGHT POLE, FRANGIBLE BASE, F&amp;I, TRANSFORMER BASE</td>
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<tr>
<td>0715 36 14</td>
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<td>1/1/2007</td>
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<tr>
<td>0715 36 42</td>
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<td>EA</td>
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<td></td>
<td>$0.01</td>
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</tbody>
</table>

715-37- A  LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY

Notes

Details
Includes the photo electric control, transformer, conduit and conductors as per the plans and standard indexes.

Related Items

Forms
Required
Design  SBTBLT
Construction
Refer to Comp Book

Recommended
Design  COMP 700-050-03

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards  Index No. 17504
Specifications

Prep & Doc Manual Chapter(s)  7, 13

TRNS*PORT Category (DRAFT FIELD):  0400  Lighting

Status  Inactive Structure

Struct.  715-37- A  LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY  EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Relocate)

Notes  Inactive
## 715-50- LIGHTING-INSIDE BOX GIRDER

**Unit**: LS/LS  
**Accuracy**: Lump Sum  
**Plan Quantity?**:  

**Notes**: Effective January 2007 letting. (Earlier implementation upon request)  
Intended for lighting system within box girder structures. Coordinate the use of this item with the Mechanical/Electrical Section of the State Structures Office. All work must be detailed in the plans/specifications, including a tabulation of materials.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

- **Required**
  - Design: SHTabQuantLS  
  - Construction: Refer to Comp Book  

- **Recommended**
  - Design: Refer to Comp Book  
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

- **Plan Detail and/or Tech Spec Required**
- **Prep & Doc Manual Chapter(s)**

### TRNS*PORT Category (DRAFT FIELD):

- **0400**  
  - Lighting

### Status

- **Struct.**  
  - **715-50-**  
  - **LIGHTING-INSIDE BOX GIRDER**  
  - **LS/LS**

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0715 50</td>
<td>LIGHTING, INSIDE BOX GIRDER</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$40,541.67</td>
</tr>
</tbody>
</table>

## 715-51- LIGHTING-TRANSFORMER FOR SPECIAL LIGHTING

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity?**: no

**Notes**: This is a special item for non-standard, underdeck aesthetic lighting systems.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

- **Required**
  - Design: Refer to Comp Book  
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Details

- **Design**: Refer to Comp Book  
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Forms
- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

### Documentation
- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**: 
- **Other**: 
- **Standards**: 
- **Specifications**: Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

### Status
- **Struct.**: 715-51- LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING EA

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0715 51</td>
<td>LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status
- **Struct.**: 715-52- LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM LF

### Notes

This is a special item for non-standard, underdeck aesthetic lighting systems.

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0715 51</td>
<td>LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING</td>
<td>EA</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

### Status
- **Struct.**: 715-52- LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM LF
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>071552</td>
<td>LIGHTING-COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM</td>
<td>LF</td>
<td>T</td>
<td>1/1/2008</td>
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<td>$2.00</td>
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</tbody>
</table>

**715-500- A** LIGHT POLE CABLE DISTRIBUTION SYSTEM

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

Includes the surge protector, fuse holders with fuses, waterproof connectors and waterproof wiring connection to the luminaire. Refer to Section 992 of the Specifications for details.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SBTBLT</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
</tr>
</tbody>
</table>

**Documentation**

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Struct.** 715-500- A LIGHT POLE CABLE DISTRIBUTION SYSTEM EA

A = Type
1 = (Conventional)
2 = (High Mast)
3 = (Wall Mounted)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<tbody>
<tr>
<td>0715500 1</td>
<td>POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL</td>
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**715-5AB-CDD** LIGHT POLE COMPLETE, SPECIAL DESIGN

**Unit** EA  **Accuracy** Each  **PlanQuantity?** no

**Notes**

Details and Structure: Items 700 to 799
Details

Used for Specially Designed Poles, including decorative or non-standard aluminum. Requires shop drawings. Includes the pole, bracket arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.

***************

For special foundations, select pay item based on pole type; detail foundation in the plans. For standard aluminum poles, use item 715-4A-BCC (through 12/07) or 715-4-ABC (effective 1/2008)

***************

For Turnpike Projects, Top Mount light specs/details may be available.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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Documentation

| Design               | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction         | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

References

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Plan Detail and/or Tech Spec Required

| Prep & Doc Manual Chapter(s) | 7, 13 |

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. 715-5AB-CDD LIGHT POLE COMPLETE, SPECIAL DESIGN EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) B-CDD = 0-000
5 (Remove) B-CDD = 0-000
6 (Repair & Reinstall) B-CDD = 0-000
7 (Furnish & Install With Internal Vibration Damper)

B = No. Arms & Location
1 (Single Arm Shoulder Mount)
2 (Double Arm Shoulder Mount)
3 (Single Arm Wall Mount)
4 (Double Arm Wall Mount)
5 (Single Arm Bridge Mount)
6 (Pole Top Mount)*
7 (Double Arm Bridge Mount)
8 (Double Arm, Pole Top Mount)*

C = Material Type
1 (Aluminum) non-standard designs
2 (Galvanized Steel)
3 (Concrete)  
4 (Fiberglass)  
5 (Wood)  
6 (Cast Iron)  

DD = Mounting Height (Open In Five Foot Increments)

**Notes**  
*Turnpike has adopted the Top Mount as a standard for some applications; specs/details may be available from District Design*

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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0715574150 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 50' EA 1/1/2007 $5,250.00

0715575130 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 30' EA 1/1/2007 $5,000.00

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0715575145 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 45' EA 1/1/2007 $2,364.45

0715575150 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 50' EA 1/1/2007 $7,821.44

0715576140 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 40' EA 1/1/2007 $6,739.11

0715576145 LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 45' EA 1/1/2007 $4,333.33

0715577135 LIGHT POLE COMPLETE, F&I-W / INTERNAL VIBRATION DAMPER, DOUBLE ARM-BRIDGE MOUNT, ALUMINUM, 35' EA 1/1/2007 $0.00

0715577145 LIGHT POLE COMPLETE, SPECIAL, F&I, INTERNAL VIBRATING DAMPER, POLE BRIDGE MOUNT, ALUMINUM, 45' EA T 1/1/2007 $4,200.00

0715578145 LIGHT POLE COMPLETE, SPECIAL, F&I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 45' EA T 1/1/2007 $4,200.00

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**721-70-AB** PASSENGER SHELTER-ALUMINUM, PREFABRICATED

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**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Related Items**

**Details and Structure:** Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

TRNS**PORT Category (DRAFT FIELD): 0800 Architectural

Status

TRNS**PORT Category (DRAFT FIELD): 0800 Architectural

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

TRNS**PORT Category (DRAFT FIELD): 0800 Architectural

Notes

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

TRNS**PORT Category (DRAFT FIELD): 0800 Architectural
### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0721 74 1</td>
<td>TRASH RECEPTACLE, PRE-FABRICATED</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1,694.42</td>
</tr>
</tbody>
</table>

### Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design SHTabQuant COMP 700-050-03</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### References

- **PPM Chapter**: 0700-050-03
- **Other**: Refer to Comp Book
- **Standards**
- **Specifications**

### Prep & Doc Manual Chapter(s)

7, 13

### TRNS*PORT Category (DRAFT FIELD):

0800 Architectural
Unit | EA | Accuracy | Each | PlanQuantity? | no
\[
\text{Notes} \\
\text{Details} \\
\text{For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.}
\]
\[
\text{Related Items} \\
\text{Required} | SHTabQuant | COMP 700-050-03 \\
\text{Recommended} \\
\text{Forms} \\
\text{Design} | Refer to Comp Book \\
\text{Construction} | \\
\text{Documentation} \\
\text{Design} | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. \\
\text{Construction} | Record final quantity on the tabulation sheet (plans) or computation form (comp book).
\]
\[
\text{References} \\
\text{PPM Chapter} \\
\text{Other} \\
\text{Standards} \\
\text{Specifications} \\
\text{Plan Detail and/or Tech Spec Required} \\
\text{Prep & Doc Manual Chapter(s)} | 7, 13 \\
\text{Status} \\
\text{Struct.} | BICYCLE PARKING RACK | EA \\
\text{Notes} \\
\text{TRNS*PORT Category (DRAFT FIELD):} | 0800 | Architectural \\
\text{The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.} \\
\text{Item} | Description | Unit | TSP/Detail | Valid Date | Obsolete Date | LRE Ref Price \\
0721 77 | BICYCLE PARKING RACK | EA | T | 1/1/2007 | | $500.00 \\
\text{721- 80-} | PEDESTRIAN PLAZA \\
\text{Notes} \\
\text{Details} \\
\text{May include pedestrian banners, drinking fountains, kiosk, and other items, as detailed in the plans. Tabulation summary required on all projects.} \\
\text{For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.}
\]
\[
\text{Related Items} \\
\text{Required} | SHTabQuantLS | COMP 700-050-05 \\
\text{Recommended} \\
\text{Forms} \\
\text{Design} | Refer to Comp Book \\
\text{Construction} | \\
\text{Documentation} \\
\text{Design} | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. \\
\text{Construction} | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
\]
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status
Struct. 721- 80- PEDESTRIAN PLAZA LS/LS

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

730- 76-ABB STEEL CASING, OPEN TRENCH

Unit LF; M1 Accuracy Linear Foot; 10th of a Meter PlanQuantity? no

Notes
Details a=1, 4, 5 valid for open cut trench applications only. For Jack & Bore, Directional Bore, and/or vibratory plowing, refer to Items 555, 556, and/or 557.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Forms Required Recommended
Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status
Struct. 730- 76-ABB STEEL CASING, OPEN TRENCH LF

A = Operation
1 (Furnish & Install)
4 (Remove)
5 (Install)
BB = Size
01 ( 2")
02 ( 3")
03 ( 4")
04 ( 6")
05 ( 8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")
18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29 (84")
30 (72")
31 (90")
32 (108")
33 ( ")
34 ( ")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730 76101</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 2&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$60.00</td>
</tr>
<tr>
<td>0730 76103</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 4&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$72.94</td>
</tr>
<tr>
<td>0730 76104</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 6&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$49.09</td>
</tr>
<tr>
<td>0730 76105</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 8&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$80.00</td>
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<tr>
<td>0730 76107</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 12&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$84.18</td>
</tr>
<tr>
<td>0730 76108</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 14&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$94.18</td>
</tr>
<tr>
<td>0730 76109</td>
<td>STEEL CASING, OPEN TRENCH, F&amp;I, 16&quot;</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$245.00</td>
</tr>
</tbody>
</table>


**0730 76110** STEEL CASING, OPEN TRENCH, F&I, 18" LF 1/1/2007 $100.39

**0730 76111** STEEL CASING, OPEN TRENCH, F&I, 20" LF 1/1/2007 $200.00

**0730 76113** STEEL CASING, OPEN TRENCH, F&I, 24" LF 1/1/2007 $278.47

**0730 76116** STEEL CASING, OPEN TRENCH, F&I, 30" LF 1/1/2007 $285.96

**0730 76119** STEEL CASING, OPEN TRENCH, F&I, 36" LF 1/1/2007 $300.00

**0730 76122** STEEL CASING, OPEN TRENCH, F&I, 42" LF 1/1/2007 $400.00

**0730 76123** STEEL CASING, OPEN TRENCH, F&I, 48" LF 1/1/2007 $645.20

**0730 76124** STEEL CASING, OPEN TRENCH, F&I, 54" LF 1/1/2007 $912.50

**0730 76126** STEEL CASING, OPEN TRENCH, F&I, 66" LF 1/1/2007 $500.00

---

### 730-77-AA CASING SPACERS

**Unit** EA | **Accuracy** Each | **Plan** | **Quantity**? no

**Notes**

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** | **Recommended**

**Forms**

Design SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

**Documentation**

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter 6, 7, 13

*Prep & Doc Manual Chapter(s)*

**Status**

**Struct.** 730-77-AA CASING SPACERS EA

AA = Carrier Size

01 (2")

02 (3")

03 (4")

04 (6")

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Details and Structure:** Items 700 to 799
05 (8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")
18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29 (84")
30 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730</td>
<td>CASING SPACERS, 2&quot; CARRIER SIZE</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$119.30</td>
</tr>
</tbody>
</table>

730-83- A  WELL

Notes

Unit  PW; EA; LF; M1
Accuracy Per Well; Each; Linear Foot; 10th of a Meter
PlanQuantity? no

Details

For roadway or landscaping applications. Designer should determine if permits are required by local and/or state agencies.

When used for landscape applications, load pay item in landscape category. For Roadway applications, load item in roadway category.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Final Measure:
For Per Each/Well Items: Final tabulation of quantities must be recorded on proper form in computation book by location.
For Length Measurements: Record final measurements on proper form in computation book or field book. When measurements have been recorded in the field book, transfer final quantities to computation book.

Related Items

Required

Recommended

Details and Structure: Items 700 to 799
**Forms**  
**Design**  
SHTabQuant  
**Construction**  
Refer to Comp Book

**Documentation**  
**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**  
PPM Chapter  
Other  
Standards  
Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**  
7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**  
200 or 600  
Roadway or Landscaping

**Status**

**Struct.**  
730- 83- A  
WELL PW; EA; LF;

A =  
4 (4" Casing)  
6 (6" Casing)

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730 83 4</td>
<td>WELL, TO 250’ DEPTH, 4&quot; CASING</td>
<td>PW</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$13,500.00</td>
</tr>
<tr>
<td>0730 83 6</td>
<td>WELL, TO 250’ DEPTH, 6&quot; CASING</td>
<td>PW</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$13,500.00</td>
</tr>
</tbody>
</table>

---

**730- 84- A  
WELL (IN EXCESS OF 250 FEET DEPTH)**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**  
**Required**  
SHTabQuant  
**Recommended**  
COMP 700-050-03

**Documentation**  
**Design**  
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.  
**Construction**  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**  
PPM Chapter  
Other  
Standards  
Specifications

**Plan Detail and/or Tech Spec Required**
### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

<table>
<thead>
<tr>
<th>Struct.</th>
<th>WELL (IN EXCESS OF 250 FEET DEPTH)</th>
<th>LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>A =</td>
<td>4 (4&quot; Casing)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 (6&quot; Casing)</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 730- 88- PUMPING SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan</th>
<th>Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

- Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 6, 7, 13

### 735- 74- AA TOLL PLAZA

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>Plan</th>
<th>Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>yes</td>
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**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0730 88</td>
<td>PUMPING SYSTEM</td>
<td>EA</td>
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<td>1/1/2008</td>
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<td>$0.00</td>
</tr>
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</table>

Details and Structure: Items 700 to 799
Tabulation summary required on all projects. See 735-88-AA for modifications to existing toll plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
<td>COMP 700-050-05</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
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</tbody>
</table>

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.** 735- 74- AA TOLL PLAZA LS/LS

AA = blank (single location)

1 (Location 1)
2 (Location 2)
3 (Location 3)
4 (Location 4)
5 (Location 5)
6 (Location 6)
7 (Location 7)
8 (Location 8)
9 (Location 9)
10 (Location 10)
11 (Location 11)
12 (Location 12)

---

**Details and Structure:** Items 700 to 799
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
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<tbody>
<tr>
<td>Forms</td>
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</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):**

0800 Architectural

**Status**

Inactive Structure

**Struct.**

735- 79- SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0735 79</td>
<td>SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$50,000.00</td>
</tr>
</tbody>
</table>

---

**735- 80- SERVICE PLAZA RENOVATION**

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.</td>
</tr>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

| PPM Chapter | Other | |
|-------------|-------| |
|             |       | |
### Standards

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 6, 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status** Inactive Structure

**Struct.** 735-80- SERVICE PLAZA RENOVATION LS/LS

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

Valid for Turnpike/Service Plaza use only.

Detail the size, depth, and any material requirements in the plans or specifications. If structure is to be similar to drainage structure, consider reference to Section 425 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

---

**Related Items**

**Required**

**Recommended**

**Forms**

**Design**

- Refer to Comp Book

**Construction**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**

**Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

---

**TRNS*PORT Category (DRAFT FIELD):**

**Status**

**Struct.** 735-81- SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE EA

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 735-82- A TOLL PLAZA CANOPY

Details and Structure: Items 700 to 799
### Topic No. 600-000-002
#### Basis of Estimates

**Unit**  SF; M2  **Accuracy**  Square Foot; 10th of a Square Meter  **PlanQuantity?**  yes

**Notes**

**Details**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant
- **Recommended**
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
- **Construction**
  - Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**
- **PPM Chapter**
  - Other
- **Standards**
  - Specifications: Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**
- 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0800  Architectural

**Status**  Inactive Structure

**Struct.**
- 735- 82-  A  **TOLL PLAZA CANOPY**  SF
  
  A =
  1 (Concrete)
  2 (Aluminum)
  3 (Steel)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>735- 84-  A  <strong>TOLL PLAZA ISLAND</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong>  EA  <strong>Accuracy</strong>  Each  <strong>PlanQuantity?</strong>  no</td>
</tr>
</tbody>
</table>

**Notes**

**Details**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Required**
  - Design: SHTabQuant
- **Recommended**
  - Construction: Refer to Comp Book

**Documentation**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### References
- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status** Inactive Structure

**Struct.** 735-84- A TOLL PLAZA ISLAND EA

A =  
1 (New)  
2 (Modify)  
3 (Remove)  
4 (New With Stairwell)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

#### 735-86- A DETECTORS VEHICLE- TREADLE FRAME

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>Plan Quantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 735-86- A DETECTORS VEHICLE- TREADLE FRAME EA

A =  
1 (Existing Concrete Pavement)  
2 (New Concrete Pavement)
### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>735-87-88-30</td>
<td>TOLL PLAZA MODIFY EXISTING</td>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>yes</td>
<td>For use on Turnpike and other toll roads. Tabulation summary required on all projects. For NEW plaza construction, see item 735-74-AA. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</td>
</tr>
</tbody>
</table>
**Forms**

- **Design**: SHTabQuantLS  COMP 700-050-05
- **Construction**: Refer to Comp Book

**Documentation**

- **Design**: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
- **Construction**: Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

**TRNS**\*\PORT Category **(DRAFT FIELD)**:  0800  Architectural

**Status**

**Struct.**  735-88- AA  **TOLL PLAZA MODIFY EXISTING**  LS/LS

- **AA** = blank (single location)
- 1 (Location 1)
- 2 (Location 2)
- 3 (Location 3)
- 4 (Location 4)
- 5 (Location 5)
- 6 (Location 6)
- 7 (Location 7)
- 8 (Location 8)
- 9 (Location 9)
- 10 (Location 10)
- 11 (Location 11)
- 12 (Location 12)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0735 88</td>
<td>TOLL PLAZA MODIFY EXISTING</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$2,240,360.34</td>
</tr>
<tr>
<td>0735 88 1</td>
<td>TOLL PLAZA MODIFY EXISTING, LOCATION 1</td>
<td>LS</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$1,000,000.00</td>
</tr>
<tr>
<td>0735 88 2</td>
<td>TOLL PLAZA MODIFY EXISTING, LOCATION 2</td>
<td>LS</td>
<td>T</td>
<td>1/1/2008</td>
<td></td>
<td>$1,000,000.00</td>
</tr>
</tbody>
</table>

**735-89-**  **AUTOMATIC WINDSHIELD WASHER**

- **Unit**: EA
- **Accuracy**: Each
- **Plan Quantity?**: no

**Notes**

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

---

**Details and Structure**: Items 700 to 799
### Standards

#### Specifications

**Struct. 735-89- AUTOMATIC WINDSHIELD WASHER EA**

**Notes**

- Plan Detail and/or Tech Spec Required
- **Prep & Doc Manual Chapter(s)**: 7, 13

---

#### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

---

#### Status

**Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.**

**Record final quantity on the tabulation sheet (plans) or computation form (comp book).**

---

#### Documentation

**PPM Chapter**

**Design**

**Construction**

---

**736-72- AA UTILITY RELOCATION- WATER**

**Unit** LS/LS  **Accuracy** Lump Sum  **PlanQuantity?** yes

---

#### Notes

**Details**

**Related Items**

**Required**

**Recommended**

**Forms**

**Design** SHTabQuantLS  **COMP 700-050-05**

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

**Construction** Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

---

#### References

**PPM Chapter**

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**: 7, 13

---

#### Status

**Struct. 736-72- AA UTILITY RELOCATION- WATER LS/LS**

**AA =**

- 11 (Permanent)
- 12 (Temporary)

---

#### Notes

---

---
### 736-73-1 RAILROAD TRACK WORK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS/LS</td>
<td>Lump Sum</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**
- **Design**: SHTabQuantLS, COMP 700-050-05
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Prep & Doc Manual Chapter(s)**: 7, 13

**PPM Chapter**
- **Design**: Other
- **Construction**: Other

**References**

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

### 736-74- A RAILROAD TURNOUT AND CROSSOVER

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
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</tr>
</tbody>
</table>

**Notes**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 736-75- RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1)

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
<th>Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plan Detail and/or Tech Spec Required</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

<table>
<thead>
<tr>
<th>TRNS*PORT Category (DRAFT FIELD):</th>
<th>0200 Roadway</th>
</tr>
</thead>
</table>

**Status**

**Struct.** 736-75- RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1) EA

A = 1 (No. 10)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 737-70- A  UTILITY LOCATE
Notes Details
This item is intended to be used for verification of utility locations designated in the plans, when necessary to specifically identify a location. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required

Recommended

Forms
Design
SHTabQuant
COMP 700-050-03

Refer to Comp Book

Construction

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Struct.

737-70- A

UTILITY LOCATE

EA

A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0737 70 1</td>
<td>UTILITY LOCATE, UNDERGROUND</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$147.64</td>
</tr>
</tbody>
</table>

737-71- A

ELECTRONIC UTILITY DESIGNATE

Unit
LF; M1

Accuracy
Linear Foot; 10th of a Meter

PlanQuantity? no

Notes Details
This item is intended to be used for verification/designating/marking of utility locations designated in the plans. Marker requirements to be provided by designer for specifications. Pay item not intended for searching unknown conditions. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### Notes

- Plan Detail and/or Tech Spec Required
- **Prep & Doc Manual Chapter(s)**: 6, 7, 13

### Status

**Struct.** 737-71-A

**WALL**

- **Unit**: LF; M1
- **Accuracy**: Linear Foot; 10th of a Meter
- **PlanQuantity?**: no

### Related Items

<table>
<thead>
<tr>
<th></th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

### References

- PPM Chapter
- Other
- Standards
- Specifications

### Notes

- **Prep & Doc Manual Chapter(s)**: 7, 13

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

**Struct.** 740-71-ABC WALL LF

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Removal)
5 (Rehab) LS, BC=00

B = Material
1 (Drywall)
2 (Panel Wall)
3 (Block Wall)
4 (Other)

C = Height
1 (8')
2 (10')
3 (12')
4 (Other)

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0740</td>
<td>WALL, REHABILITATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$45,253.94</td>
</tr>
</tbody>
</table>

**741-70-ABC TRAFFIC MONITORING SITE, VEHICLE SENSOR-CLASS II**

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

**Details**

Refer to Specifications for use and application.

**Related Items**

**Required**

Design
SHTabQuant

**Recommended**

COMP 700-050-03

**Forms**

Design
Refer to Comp Book

**Construction**

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Documentation**

Design
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter
Other

Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 741-70-ABC TRAFFIC MONITORING SITE, VEHICLE SENSOR-CLASS II EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Vehicle Sensor Type
1 (Type I)
2 (Type II)

C = Sensor Length
1 (Half Lane Width)
2 (Full Lane Width)
3 (Non-Intrusive)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0741 70111</td>
<td>TMS VEHICLE SENSOR, CLASS II, F&amp;I, TYP 1, 1/2 LN</td>
<td>EA</td>
<td>1/1/2007</td>
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<td>$1,142.60</td>
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<tr>
<td>0741 70112</td>
<td>TMS VEHICLE SENSOR, CLASS II, F&amp;I, TYP 1, FULL LANE WIDTH</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$5,000.00</td>
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<tr>
<td>0741 70121</td>
<td>TMS VEHICLE SENSOR, CLASS 2, F&amp;I, TYP II, HALF LANE WIDTH</td>
<td>EA</td>
<td>1/1/2007</td>
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<tr>
<td>0741 70123</td>
<td>TMS VEHICLE SENSOR, CLASS 2, F&amp;I, TYPE II, NON INTRUSIVE</td>
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<td>$1,600.00</td>
</tr>
</tbody>
</table>

742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY

Unit AS Accuracy Assembly PlanQuantity? no

Notes

Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY AS

Details and Structure: Items 700 to 799
A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

B = Weight Sensor Type
1 (Bending Plate)
2 (Piezoelectric)
3 (Capacitance)
4 (Combined Types)
5 (Other)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>743-70-AB</th>
<th>TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT</th>
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</thead>
<tbody>
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<tr>
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<td>Quantity? no</td>
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Notes
Details
Refer to Specifications for use and application.

Related Items
Forms
Required
Design
SHTabQuant

Recommended
Design
COMP 700-050-03

Construction
Refer to Comp Book

Documentation
Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD):
0200 Roadway

Status
Struct. 743-70-AB

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Assembly Component
1 (Electronics Unit With Equipment Cable)
2 (Electronics Unit Only)

Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
### 744-70-AB
**TRAFFIC MONITORING SITE, SOLAR POWER UNIT**

#### Notes
**Unit** AS  
**Accuracy** Assembly

**PlanQuantity?** no

**Details**
Refer to Specifications for use and application.

**Related Items**
- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

**Forms**
- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**
    - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200  
Roadway

**Status**  
**Struct.** 744-70-AB  
**TRAFFIC MONITORING SITE, SOLAR POWER UNIT**  
**AS**

- **A =** Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)
- **B =** Mounting
  - 1 (New Pole)
  - 2 (Existing Pole)

**Notes**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

#### Item 07447011
**Description**  
TMS SOLAR POWER UNIT, F&I, NEW POLE

**Unit** EA  
**TSP/Detail** 1/1/2007  
**Obsolete Date**  
**LRE Ref Price** $4,824.39

---

### 745-70-AB
**TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY**

#### Notes
**Unit** AS  
**Accuracy** Assembly

**PlanQuantity?** no

**Details**
Refer to Specifications for use and application.

**Related Items**
- **Required**
  - Design: SHTabQuant

**Forms**
- **Design**
  - COMP 700-050-03

---

Details and Structure: Items 700 to 799
**Construction**
Refer to Comp Book

**Design**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Standards
Specifications

**Prep & Doc Manual Chapter(s)** 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 745-70-AB TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Number Of Loops Per Lane
1 (One)
2 (Two)

**Notes**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Documentation**
Design
Construction

**Required Forms**
Design SHTabQuant
Construction Refer to Comp Book

**Recommended Forms**
Design COMP 700-050-03

**Related Items**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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**746-7A-BCD** TRAFFIC MONITORING SITE, CABINET

**Notes**
Refer to Specifications for use and application.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

**Recommended**

**Details**
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).
Standards
Specifications

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Modify) BCD=blank
5 (Relocate) BCD=blank

B = Size
1 (Type III)
2 (Type IV)
3 (Type V)

C = Mounting
1 (Base)
2 (Pole)
3 (Pedestal)

D = Backplane
1 (One)
2 (Two)
3 (None)

Notes
Existing Specs apply for A=1-3; Plan Detail and/or Tech Spec Required for A=4 or 5

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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## 747-70-AB TRAFFIC MONITORING SITE, MODEM

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### Notes
- Refer to Specifications for use and application.

### Details
- **Required**
  - **Design**
    - SHTabQuant
  - **Construction**
    - Refer to Comp Book
- **Recommended**
  - COMP 700-050-03

### Related Items
- **Forms**
  - Refer to Comp Book
- **Documentation**
  - **Design**
    - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction**
    - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**
- **Prep & Doc Manual Chapter(s)**: 7, 13

### Status
- **Struct.** 747-70-AB TRAFFIC MONITORING SITE, MODEM
  - A = Operation
    - 1 (Furnish & Install)
    - 2 (Furnish)
    - 3 (Install)
    - 4 (Modify)
  - B = Item
    - 1 (Modem)

### Notes
- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<tr>
<th>Item</th>
<th>Description</th>
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Details and Structure: Items 700 to 799

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ARCHITECTURAL- BUILDING

**Unit**  LS/SF; LS/M2  **Accuracy**  Lump Sum (Square Foot); **Plan Quantity?**  no  Lump Sum (Square Meter)

**Notes**
- Effective January 2007; replaces several Architectural Items.

**Details**
- For all new/major rehab Architectural work. Includes all work (building, plumbing, electrical, water, HVAC, etc.) for a complete building. Tech Specs must detail all items, construction, and materials.
- For limited incidental work, see 751 items.
- Do not use for movable bridge structures; see 508 items and/or contact Movable Bridge Section. Do not use for Signing, Lighting, ITS, or Signalization.
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
<td>Construction</td>
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| Documentation | | |
| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. | |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). | |

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):**  0800  Architectural

**Status**

**Struct.**  750- 1- AB  **ARCHITECTURAL- BUILDING**  LS/SF

- A= Operation
  1 (New)
  5 (Rehab)
  6 (Remove)
- B= Facility
  1 (Rest Area)
  2 (Welcome Center)
  3 (Weigh Station)
  4 (Maintenance Facility Building)
  5 (Office)
  6 (Parking Garage)
  7 (Storage/Mechanical)
  8 (Uncovered Storage)
  9 (Other building)*
*Contact Architectural Section for approval

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
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### 751-2- ARCHITECTURAL- ELECTRICAL/POWER

**Unit**: LS/LS  
**Accuracy**:  
**Lump Sum**:  
**Plan Quantity?**: no

#### Notes

**Effective January 2007**

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware (lighting fixtures, generator, etc.), and materials for a complete electrical system, as detailed in the plans and/or tech specs. Do not use for Signing, Lighting, ITS, or Signalization.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

- **Required**: SHTabQuantLS  
- **Recommended**: COMP 700-050-05

#### Forms

- **Design**: Refer to Comp Book
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

#### Documentation

- **Design**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

- **PPM Chapter**: Design and Construction
- **Other Standards**:  
- **Specifications**:  

#### Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

- **TRNS*PORT Category (DRAFT FIELD)**: 0800 Architectural

#### Status

- **Struct.**: 751-2- ARCHITECTURAL- ELECTRICAL/POWER LS/LS
### 751- 3- ARCHITECTURAL- TELEPHONE/COMMUNICATION

<table>
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**Notes**
- Effective January 2007
- For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
- DO NOT USE FOR: Signing, Lighting, ITS, or Signalization.

Includes all work, hardware, and materials for a complete Telephone/Communication system, as detailed in the plans and/or tech specs. Communications may include cable and/or fiber optic connections necessary for a complete system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Prep & Doc Manual Chapter(s)**

Plan Detail and/or Tech Spec Required

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Struct.** 751- 3- ARCHITECTURAL- TELEPHONE/COMMUNICATION LS/LS

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 751- 4- ARCHITECTURAL- WATER/SEWER INTERIOR

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</table>

**Notes**
- Effective January 2007

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware (sinks, toilets, water fountains), and materials for a complete water/sewer system for the interior of a building, as detailed in the plans and/or tech specs.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Forms

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### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 751- 5-

**ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT**

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#### Details

- **Effective January 2007**
- For use on Architectural projects only. May be used with 750-1 (New/Rehab building) item for major items of work. For minor water/sewer work associated with building, include with 750-1 item.
- Includes all work, hardware (lift station, treatment plant, etc.) for a complete water/sewer system for the exterior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Forms

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### Standards

### Specifications

#### Plan Detail and/or Tech Spec Required

#### Prep & Doc Manual Chapter(s)

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#### Status

**Struct.** 751-5- **ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT**

#### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>751-6- <strong>ARCHITECTURAL- HVAC</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
</tr>
</tbody>
</table>

#### Effective January 2007

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.

Includes all work, hardware (AC, ventilation, and/or heating units), and materials for a complete HVAC system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

#### Documentation

<table>
<thead>
<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

#### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan Detail and/or Tech Spec Required</td>
<td><strong>Prep &amp; Doc Manual Chapter(s)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRNS*PORT Category (DRAFT FIELD):</th>
<th>0800</th>
<th>Architectural</th>
</tr>
</thead>
</table>

#### Status

**Struct.** 751-6- **ARCHITECTURAL- HVAC**

#### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

Details and Structure: Items 700 to 799
### 751-10- ARCHITECTURAL- ASBESTOS ABATEMENT

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

#### Notes
Effective January 2007; contact Architectural Section before opening, due to possible CARS contract.

#### Details
Check for possible CARS contract prior to using this item.

For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware, and materials for Asbestos Abatement, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td></td>
<td>COMP 700-050-05</td>
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<tr>
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<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Refer to Comp Book</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
</tr>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

#### References
PPM Chapter
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**
Struct. 751-10- ARCHITECTURAL- ASBESTOS ABATEMENT LS/LS

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 751-11- A ARCHITECTURAL- SPECIAL

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

#### Notes
Contact State Structures Design Office and/or State Architectural Section prior to use in any contract.

#### Details
For use on Structural/Architectural plans only.

This item is intended to cover Special Architectural elements not included with "Buildings". Structural/Architectural details must be included in the plans or specifications.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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</tr>
<tr>
<td></td>
<td>Construction</td>
</tr>
<tr>
<td></td>
<td>Design</td>
</tr>
</tbody>
</table>

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Details and Structure: Items 700 to 799
### 751-20- A  ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

#### Notes

- Effective January 2007
- For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
- For movable bridge structures, refer to Section 508 items. For all other applications, lightning protection is incidental to the item being protected.
- Do not use for Signing, Lighting, ITS, or Signalization.

---

*Includes all work, hardware, and materials for a complete lightning protection system, as detailed in the plans and/or tech specs.*

- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

#### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

#### References

- PPM Chapter
- Other
- Standards
- Specifications

---

*TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

---

Details and Structure: Items 700 to 799
Struct.  751- 20-  A ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM LS/LS

A= Type of System
1 (Point Discharge)
2 (Static Charge Dissipation)
3 (Surge Suppression)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>0751 20 1</td>
<td>ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, POINT OF DISCHARGE</td>
<td>LS</td>
<td>T</td>
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<td></td>
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<tr>
<td>0751 20 3</td>
<td>ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, SURGE SUPPRESSION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td>$0.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

751- 30-  A ARCHITECTURAL- PICNIC PAVILION

Unit   EA
Accuracy Each
PlanQuantity? no

Notes

Effective January 2007

Details

For use on Architectural projects only.
Size (small/large) and details as shown on Design Standards.
Non-standard sizes must be approved by the Architectural Section, with a new pay item request.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required       Recommended

Forms
Design  SHTabQuant  COMP 700-050-03
Construction  Refer to Comp Book

Documentation
Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards  Index No. 530
Specifications

Prep & Doc Manual Chapter(s)

Plan Detail and/or Tech Spec Required

Trns*Port Category (Draft Field): 0800 Architectural

Status
Struct.  751- 30-  A ARCHITECTURAL- PICNIC PAVILION EA

A= Size, per index
1 (Small)
2 (Large)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0751 30 1</td>
<td>ARCHITECTURAL, PICNIC PAVILION, SMALL</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$5,000.00</td>
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</table>

764- 1- BOAT DOCK- FLOATING

Unit SF; M2 Accuracy Square Foot; 10th of a Square Meter PlanQuantity? no

Notes Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items Required Recommended
Forms Design SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status Struct. 764- 1- BOAT DOCK- FLOATING SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

764- 2- BOAT DOCK- GANGWAY

Unit SF; M2 Accuracy Square Foot; 10th of a Square Meter PlanQuantity? no

Notes Details

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items Required Recommended
Forms Design SHTabQuant COMP 700-050-01
### Standards and Specifications

**Struct. 764-2- BOAT DOCK- GANGWAY SF**

**Notes**
- Plan Detail and/or Tech Spec Required
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**
- **Struct.** 764-2- BOAT DOCK- GANGWAY SF

**Documentation**
- **Construction** Refer to Comp Book
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
- For use at weigh/inspection stations only.

**Details**
- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Required**
  - **Design** SHTabQuant
  - **Construction** Refer to Comp Book
- **Recommended**
  - **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**
- 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**
- **Struct.** 770-75- A PRE-PASS SENSOR EA
  - **A= Location**
    - 1(Asphalt Embedded)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>077078</td>
<td>STATIC / WEIGH-IN-MOTION SCALE SYSTEM</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$2,016,666.67</td>
</tr>
</tbody>
</table>

---

### 770-78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

The designer should detail all requirements and components to be included in the system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Design**: SHTabQuant
- **Construction**: Refer to Comp Book

**Documentation**
- **Design**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: 7, 13
- **Prep & Doc Manual Chapter(s)**: 7, 13

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**: Block Pending

**Struct.**: 770-78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM EA

---

### 770-79- WEIGH STATION

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
<th>yes</th>
</tr>
</thead>
</table>

**Notes**

The designer should detail all requirements and components to be included in the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

---
Standards
Specifications

Struct. 770-79- WEIGH STATION LS/LS

Notes
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural
Status Inactive Structure

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0770 79</td>
<td>WEIGH STATION</td>
<td>LS</td>
<td>T</td>
<td>1/1/2007</td>
<td>$4,461,633.33</td>
<td></td>
</tr>
</tbody>
</table>

775-70- SCALE PIT STRUCTURES

Notes
Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
Forms
Design Required SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural
Status Inactive Structure

Details and Structure: Items 700 to 799
# SCALE PIT STRUCTURES

## Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 775-72- SCALE FOUNDATION

| Unit | EA | Accuracy | Each | PlanQuantity? | no |

**Notes**

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: COMP 700-050-03
- Construction: Refer to Comp Book

**Documentation**

**Design**

- Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Prep & Doc Manual Chapter(s)**

- Plan Detail and/or Tech Spec Required

---

**TRNS*PORT Category (DRAFT FIELD):** 0800 Architectural

**Status**

Inactive Structure

## ITS ELECTRICAL POWER

### Notes

For use in providing electrical power service to ITS devices in the field. Installations of service assemblies can be either for overhead or underground service, in accordance with the details in the plans, or in Index 17736 of the Design Standards. A service assembly may include a weather head, conduit, service wire, a meter base, service disconnect, and a transient protection device.

### Related Items

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Design: COMP 700-050-03

---

**Details and Structure:** Items 700 to 799
**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Vol 1, Chapter 7

**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 780-1-AB ITSC ELECTRICAL POWER Mixed

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove and Dispose- Contractor takes ownership)

B= Type
1 (Service) AS
2 (Service Wire) LF
3 (Service Disconnect) EA

**Notes**
Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0780 1 11</td>
<td>ITS ELECTRICAL POWER, F&amp;I, SERVICE</td>
<td>AS</td>
<td>TSP/Detail</td>
<td>1/1/2007</td>
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<tr>
<td>0780 1 12</td>
<td>ITS ELECTRICAL POWER, F&amp;I, SERVICE WIRE</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
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<td>0780 1 13</td>
<td>ITS ELECTRICAL POWER, F&amp;I, SERVICE DISCONNECT</td>
<td>EA</td>
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<td>1/1/2007</td>
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<td>1/1/2007</td>
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<td>0780 1 41</td>
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<td>ITS ELECTRICAL POWER, RELOCATE, SERVICE WIRE</td>
<td>LF</td>
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<td>1/1/2007</td>
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<td>0780 1 43</td>
<td>ITS ELECTRICAL POWER, RELOCATE, SERVICE DISCONNECT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$500.00</td>
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<tr>
<td>0780 1 51</td>
<td>ITS ELECTRICAL POWER, ADJUST &amp; MODIFY, SERVICE</td>
<td>AS</td>
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<td>1/1/2007</td>
<td></td>
<td>$2,311.68</td>
</tr>
<tr>
<td>0780 1 52</td>
<td>ITS ELECTRICAL POWER, ADJUST &amp; MODIFY, SERVICE WIRE</td>
<td>LF</td>
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<td>1/1/2007</td>
<td></td>
<td>$5.37</td>
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<tr>
<td>0780 1 61</td>
<td>ITS ELECTRICAL POWER, REMOVE &amp; DISPOSE, SERVICE</td>
<td>LF</td>
<td></td>
<td>1/1/2007</td>
<td></td>
<td>$800.00</td>
</tr>
</tbody>
</table>
For installation along the roadway for the purpose of broadcasting traffic advisories to vehicle radios. The HAR installation consists of a radio antenna mounted on a pole, a control cabinet containing the transmitter, power supply, communication hardware, and conduit. The system includes a roadside HAR sign with flashing beacons to alert motorists that a message is being broadcast.

Transmitter wattage, siting information, and installation details should be noted in the plans. For temporary MAS systems during construction, refer to Maintenance Of Traffic, Section 102 items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781 2 12</td>
<td>ITS HIGHWAY ADVISORY RADIO, F&amp;I, AC POWER</td>
<td>EA</td>
<td>7/1/2006</td>
<td>$69,959.34</td>
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<td>0781 2 41</td>
<td>ITS HIGHWAY ADVISORY RADIO, RELOCATE, SOLAR POWER</td>
<td>EA</td>
<td>7/1/2006</td>
<td>$5,000.00</td>
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<td>0781 2 42</td>
<td>ITS HIGHWAY ADVISORY RADIO, RELOCATE, AC</td>
<td>EA</td>
<td>7/1/2006</td>
<td>$25,000.00</td>
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<td>7/1/2006</td>
<td>$4,500.00</td>
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</tbody>
</table>

### 781- 3-ABC ITS ROAD WEATHER INFORMATION SYSTEM

**Unit**: EA  
**Accuracy**: Each  
**Plan Quantity**: no

**Notes**: Effective July 07 Letting.

**Details**: For installation at the roadside, on bridges or other new or existing structures to provide real-time weather data on temperature, humidity, precipitation, wind speed, and direction, and visibility. The RWIS is furnished with the weather instruments necessary to produce the readings desired and collects, stores, and processes the data for transmittal to the transportation management center (TMS). An RWIS with one central monitoring site can serve multiple field installations. The weather sensors are typically mounted on either a dedicated RWIS tower or existing structures.

**Related Items**

- **Required**
  - Design: SHTabQuant
  - Construction: Refer to Comp Book

- **Recommended**
  - Design: COMP 700-050-03
  - Construction: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Notes**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**: Vol 1, Chapter 7
- **Other Standards**:
- **Specifications**
- **Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD)**: 0550 ITS

**Status**

**Struct.**: 781- 3-ABC ITS ROAD WEATHER INFORMATION SYSTEM EA

- A= Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 5 (Adjust /Modify) BC=00

- B= Equipment Type
- 1 (Field Hardware)
- 2 (Central Monitoring/Processing Equipment)

- C= Sensor Mounting
- 1 (New Tower Included)
- 2 ( Mounted to Existing Structure)

**Notes**: Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 781-1A-BCD ITS DYNAMIC MESSAGE SIGN

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For installation along interstate, expressway, or limited access corridors for communicating traffic advisories to motorists.

Structure Types: Mid-span- across one direction of travel, full span- across all lanes, or cantilever- at the roadside.

Sign Type: Front display surface, with either line matrix- pixels arranged in rows, or full matrix- pixels fully covering the surface.

Designer should note the size of sign, structure, and installation details in the plans.

**NOTE:**

Furnish & Install: includes the furnishing of both the truss/structure and sign
Furnish: Furnish the sign only (Signs are available on State purchase contracts)
Install: Install sign on existing structure
Furnish & Install structure, Install Sign: When sign is provided by FDOT (may have been purchased on state contract, or relocated from another location). Contractor must provide/construct truss, install sign.

**Related Items**

**Forms**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tbody>
</table>

**Documentation**

<table>
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<tr>
<th>Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Vol 1, Chapter 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>Standards</td>
</tr>
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<td></td>
<td>Specifications</td>
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</table>

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.**

| 781-1A-BCD ITS DYNAMIC MESSAGE SIGN | EA |

A= Operation
1 (Furnish & Install)
2 (Furnish) *
3 (Install) *Sign on existing structure
4 (Relocate) *Sign to another existing structure
5 (Adjust /Modify)
9 (Furnish & Install structure; Install Sign)

B=Sign Type
1 (LED Line Matrix)
2 (LED Full Matrix)

C=Sign Support Structure
1 (Mid-span)
2 (Full Span)
3 (Cantilever) D=1, 2, or 3 only
4 (Sign Only) no structure; D=0
D= Horizontal Structure Length
0 (No Structure) when C=4
1 (0’ to 40’)
2 (41’ to 60’)
3 (61’ to 80’)
4 (81’ to 100’)
5 (101’ to 120’)
6 (121 to 140’)
7 (141 to 161’)
8 (161 to 180’)
9 (greater than 180’)

**Notes**
See detail for Furnish/Install options

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
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<td>0781  11213</td>
<td>ITS DYNAMIC MESSAGE SIGN, F&amp;I, LED FULL MATRIX, MID SPAN, TRUSS - 61 - 80’</td>
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<td>1/1/2007</td>
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<tr>
<td>0781 13217</td>
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<tr>
<td>0781 13232</td>
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<tr>
<td>0781 19215</td>
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<td>0781 19225</td>
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### ITS CCTV CAMERA

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>No</th>
</tr>
</thead>
</table>

**Notes**

For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply. Cameras can be dome style enclosures, or "barrel type" units with external positioners. Either unit can be pressurized to reduce the effects of moisture, dust, and other contaminants.

**Details**

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Related Items**

**Forms**

- **Design**
  - SHTabQuant

- **Construction**
  - Refer to Comp Book

**Documentation**

- **Design**
  - Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

- **Construction**
  - Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- **PPM Chapter**
  - Vol 1, Chapter 7

**Prep & Doc Manual Chapter(s)**

### TRNS*PORT Category (DRAFT FIELD):

- **0550 ITS**

**Status**

- **Struct.**
  - **782-1-AB**

**Details and Structure: Items 700 to 799**
Notes
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0782 1 11</td>
<td>ITS CCTV CAMERA, F&amp;I, DOME ENCLOSURE - PRESSURIZED</td>
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<td>0782 1 13</td>
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<tr>
<td>0782 1 31</td>
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<td>0782 1 41</td>
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</tr>
</tbody>
</table>

782- 2-ABC  ITS VIDEO DISPLAY

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes
For use in the Transportation Management Center (TMC) to display video from the CCTV cameras in the field, and for displaying maps, graphics, traffic counts, and other visuals. Video Display cubes can be stacked to form a wall display. Other monitors are positioned in the room or on the operator's desktops for control purposes. The video controller receives the incoming video signals and arranges them on the various displays. Display types, room layout, and installation details must be noted in the plans.

Related Items
Required
- Design
- Construction
Recommended
- Design
- Construction

Forms
- PPM Chapter
- Other

Documentation
- Design
- Construction

References
- PPM Chapter
- Other

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status
Struct.  782- 2-ABC  ITS VIDEO DISPLAY  EA
A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
B= Component
1 (Cube for video wall) C=2
2 (Workstation) C=1 or 3
3 (Monitor)
4 (Controller) C=0

C= Technology
1 (LCD- Liquid Crystal Display)
2 (Rear Projection)
3 (CRT- Cathode Ray Tube)
4 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0782 2121</td>
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<td>1/1/2007</td>
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<td>$5,000.00</td>
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</tbody>
</table>

782- 3- A  ITS REST AREA INFORMATION SYSTEMS

Unit   EA   Accuracy Each   PlanQuantity?  no

Notes

Details

For use in highway rest areas for the display of traffic conditions and other information for the traveling public. The system is rack mounted and has the necessary processing power, memory, network connection, and video output capability to provide images for LCD displays in the lobby or concourse area of rest plazas.

Related Items

Forms

Design  SHTabQuant  COMP 700-050-03
Construction

Documentation

Design  Construction

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550  ITS

Status

Struct.  782- 3- A  ITS REST AREA INFORMATION SYSTEMS  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>ITS FIBER OPTIC CABLE</th>
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<tr>
<td><strong>Unit</strong></td>
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<tr>
<td><strong>Accuracy</strong></td>
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<tr>
<td><strong>PlanQuantity?</strong></td>
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</tbody>
</table>

**Notes**

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.

Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless otherwise indicated in the plans or specs.

REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

<table>
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<th>PPM Chapter</th>
<th>Vol 1, Chapter 7</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

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<th>Struct.</th>
<th>783-1-ABC</th>
<th>ITS FIBER OPTIC CABLE</th>
<th>LF</th>
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A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust/Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)
### Notes

*Remove item may require plan details and/or tech spec*

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0783 1111</td>
<td>ITS FIBER OPTIC CABLE, F&amp; I, OVERHEAD, 2 -12 FIBERS</td>
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<td>0783 1113</td>
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<td>1/1/2007</td>
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<td>0783 1121</td>
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<td>1/1/2007</td>
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<td>1/1/2007</td>
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<tr>
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**783- 2- AB**  
**ITS FIBER OPTIC CONNECTION**

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must be terminated at the end of a segment. Note that each
connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected. Type of connection must be noted in the plans.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>COMP 700-050-03</td>
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**Forms**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Refer to Comp Book</td>
<td></td>
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**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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</tr>
<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</table>

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 783- 2- AB ITS FIBER OPTIC CONNECTION EA

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Splice)
2 (Termination)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0783 2 41</td>
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<td>0783 2 52</td>
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**783- 3- AB ITS FIBER OPTIC CONNECTION HARDWARE**

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<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**

Details For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing
individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cord/cable.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</table>

<table>
<thead>
<tr>
<th>Documentation Design</th>
<th>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
</table>

**Notes**

*B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

---

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0783 3 11</td>
<td>ITS FIBER OPTIC CONNECTION HARDWARE, F&amp;I, SPLICE ENCLOSURE</td>
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<td>1/1/2007</td>
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<td>EA</td>
<td>1/1/2007</td>
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<td>Quantity</td>
<td>Rate</td>
<td>Amount</td>
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<td>0783 3 14</td>
<td>ITS FIBER OPTIC CONNECTION HARDWARE, F&amp;I, BUFFER TUBE FAN OUT KIT</td>
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<td>1/1/2007</td>
<td>$58.31</td>
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<tr>
<td>0783 3 15</td>
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</table>

### 783-4-AB ITS CONDUIT

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**Plan Quantity?**: no

**Notes**: Valid through 6-30-08; replaced by 783-4-1AB

**Details**: For fiber optic cable and ITS devices only.  
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.  
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

**NOTE**: Per specification, length of conduit includes Electronic Locate system (transmitter and receiver).

**Related Items**

**Forms**

- **Required**: SHTabQuant  
- **Recommended**: COMP 700-050-03

**Documentation**

- **Design**: Refer to Comp Book  
- **Construction**: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**References**

- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**

---

**Details and Structure**: Items 700 to 799
**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct.** 783- 4- AB ITS CONDUIT LF

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**

*Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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**783- 4-1AB** ITS CONDUIT

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
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</tbody>
</table>

**Notes**

New Item effective 7-1-08; replaces 783-4-AB

For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or
where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under
EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic
Locate Transmitter & Receiver. Refer to specific for payment details.

**Related Items**

**Forms**

Design SHTabQuant COMP 700-050-03

**Documentation**

Design Locate in plans. Summarize quantities by location on tabulation of quantities

---

Details and Structure: Items 700 to 799
sheet in the plans, or detail calculations in the computation book.

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0550  ITS

**Status**

**Struct.** 783- 4-1AB  ITS CONDUIT  LF

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

**Notes**

*Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

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**783- 5- A  ITS PULL BOX FOR FIBER OPTIC**

**Notes**

For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specificaion for size, materials, and other details for box.

**Related Items**

**Required** SHTabQuant

**Recommended** COMP 700-050-03

**Forms**

Design

Construction

**Documentation**

Design

Locate in plans. Summarize quantities by location on tabulation of quantities

Details and Structure: Items 700 to 799
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
**PPM Chapter**
**Other**

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Status**

**Struct. 783-5- A**

**ITS PULL BOX FOR FIBER OPTIC**

**EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0783 5 1</td>
<td>ITS PULL BOX FOR FIBER OPTIC CABLE, FURNISH AND INSTALL</td>
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<td>1/1/2007</td>
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<td>0783 5 4</td>
<td>ITS PULL BOX FOR FIBER OPTIC CABLE, RELOCATE</td>
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<tr>
<td>0783 5 5</td>
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<td>$420.00</td>
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</tr>
</tbody>
</table>

**783-6- A**

**ITS SPLICE BOX FOR FIBER OPTIC**

**Notes**

**Details**

For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specification for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.

REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td><strong>Design</strong></td>
</tr>
</tbody>
</table>
Struct.  783-  6-  A  ITS SPLICE BOX FOR FIBER OPTIC  EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0783 6 1</td>
<td>ITS SPLICE BOX FOR FIBER OPTIC CABLE, F &amp; I</td>
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<td>1/1/2007</td>
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<tr>
<td>0783 6 5</td>
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<td>0783 6 6</td>
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<td>1/1/2007</td>
<td></td>
<td>$500.00</td>
</tr>
</tbody>
</table>

783-  7-  A  ITS PULL AND JUNCTION BOX

Notes

Details

For use on ITS projects. To be used for non-fiber optic wiring needs (power, communication, etc for ITS systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items

Required  Recommended

Details and Structure: Items 700 to 799
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0783 7 1</td>
<td>ITS PULL &amp; JUNCTION BOX, FURNISH AND INSTALL</td>
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<td>T</td>
<td>1/1/2007</td>
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<tr>
<td>0783 7 3</td>
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<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$0.00</td>
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<tr>
<td>0783 7 4</td>
<td>ITS PULL &amp; JUNCTION BOX, RELOCATE</td>
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<td>T</td>
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<td>$400.00</td>
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<tr>
<td>0783 7 5</td>
<td>ITS PULL &amp; JUNCTION BOX, ADJUST/MODIFY</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$400.00</td>
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<tr>
<td>0783 7 7</td>
<td>ITS PULL &amp; JUNCTION BOX, REMOVE &amp; STOCKPILE</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$200.00</td>
</tr>
</tbody>
</table>

For use on ITS projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
<thead>
<tr>
<th>Related Items</th>
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<tr>
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**Documentation**

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**References**

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<th>References</th>
<th>PPM Chapter</th>
<th>Other</th>
<th>Standards</th>
<th>Specifications</th>
</tr>
</thead>
</table>

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

**Struct.** 783- 8- A  ITS MULTI-CONDUCTOR COMMUNICATION CABLE  LF

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
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<td>0783 8 4</td>
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<td>1/1/2007</td>
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783- 9- AB  ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT

**Notes**

Effective July 08 letting, with updated specification.

**Details**

For use on ITS projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that can be used together to determine the location of the underground utilities and other objects. Special configuration and/or installation details should be detailed in the plans on a project-by-project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing ITS
boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the ITS conduit price, per specifications.

<table>
<thead>
<tr>
<th>Related Items</th>
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<tr>
<th>References</th>
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<tr>
<td>Other</td>
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Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

<table>
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<th>Struct. 783- 9- AB</th>
<th>ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT EA</th>
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<td>A= Operation</td>
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<tr>
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<td>1 (Furnish &amp; Install)</td>
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<tr>
<td></td>
<td>2 (Furnish)</td>
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<td>3 (Install)</td>
</tr>
<tr>
<td></td>
<td>4 (Relocate)</td>
</tr>
<tr>
<td></td>
<td>5 (Adjust /Modify)</td>
</tr>
<tr>
<td>B = Equipment Type</td>
<td>1 (Transmitter)</td>
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<tr>
<td></td>
<td>2 (Receiver)</td>
</tr>
<tr>
<td></td>
<td>3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers</td>
</tr>
</tbody>
</table>

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
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<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
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</table>

784- 1- A  
ITS MANAGED FIELD ETHERNET SWITCH

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

Notes

Details

For use in ITS communication networks to provide wire-speed fast Ethernet connections for ITS field devices. The Ethernet switch is hardened to withstand harsh environments and provides transmission rates of 100 megabits per second from the remote ITS device installation location to the ITS network trunk interconnection point.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
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<tr>
<td></td>
<td>COMP 700-050-03</td>
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</table>

Details and Structure: Items 700 to 799
### 784-1- A

**ITS MANAGED FIELD ETHERNET SWITCH**

**EA**

A= Operation  
1 (Furnish & Install)  
2 (Furnish)  
3 (Install)  
4 (Relocate)  
5 (Adjust /Modify)  
6 (Remove and Dispose) Contractor takes ownership

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>0784 1 3</td>
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<tr>
<td>0784 1 4</td>
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</table>

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### 784-2- A

**ITS DEVICE SERVER**

**Unit** EA  
**Accuracy** Each  
**PlanQuantity?** no

**Notes**

For use when an ITS field device must connect to an Ethernet network but the device is only equipped with serial communication ports (i.e. EIA-232, EIA-422, or EIA-485 connections). Field devices that may require use of device servers include highway advisory radio field assemblies, microwave vehicle detection system devices, magnetic traffic detection systems, road weather information system stations, and other low-speed data output devices.

**Related Items**

**Required** SHTabQuant  
**Recommended** COMP 700-050-03

**Forms**

**Design** Refer to Comp Book  
**Construction**

**Documentation**

Locate in plans. Summarize quantities by location on tabulation of quantities.
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**Notes**

**Status**

### 784- 2- A

**ITS DEVICE SERVER**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
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<td>1/1/2007</td>
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<tr>
<td>0784 2 4</td>
<td>ITS DEVICE SERVER, ADJUST/MODIFY</td>
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<td>1/1/2007</td>
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</table>

**784- 3- AB ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER**

**Unit**  EA  **Accuracy**  Each  **PlanQuantity**  no

**Notes**

For use when analog video and data signals obtained in the field must be converted to digital signals for transmission across IP networks. The encoder and decoder are independent, network-based devices that utilize MPEG-2 and other video compression algorithms for transmission of high-bandwidth signals. Encoders may be hardened devices and are installed in the field. Decoders are housed in transportation management centers and can be either a hardware device or a decoder software program running on a computer.

NOTE: Software based decoder is incidental to the digital video encoder, per specifications.

**Related Items**

**Forms**

**Design**  SHTabQuant  **Recommended**  COMP 700-050-03

**Construction**  Refer to Comp Book

**Documentation**

**Design**  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction**  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other**
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct.  784-3-AB

ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER
EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership, B=0

B = Component
1 (Hardened Encoder)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 3 11</td>
<td>ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, F&amp;I, HARDENED ENCODER</td>
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<td>1/1/2007</td>
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<td>$500.00</td>
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</tr>
<tr>
<td>0784 3 60</td>
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<td>$0.00</td>
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</tr>
</tbody>
</table>

784-4-AB

ITS DIGITAL VIDEO DECODER

Unit EA Accuracy Each PlanQuantity? no

Notes

Details

DO NOT USE with Digital Video Encoder; see details with 784-3 item.
This item to be used only when a hardware-based decoder, or additional copies of the software-based decoder are needed.
Contact ITS Section prior to opening.

Related Items

Forms

Required
Design
SHTabQuant

Recommended
Construction
COMP 700-050-03

Documentation

Design
Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other

Standards

Details and Structure: Items 700 to 799
### Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0550  ITS

---

**Status**

**Struct.** 784- 4- AB  ITS DIGITAL VIDEO DECODER  EA

- **A= Operation**
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install) B=0
  - 4 (Relocate) B=0
  - 5 (Adjust /Modify) B=0
  - 6 (Remove and Dispose) Contractor takes ownership B=0

- **B= Component**
  - 1 (Hardware-based decoder)
  - 2 (Software-based decoder)

*See details and/or specifications

**Notes**

- Contact ITS Section prior to opening.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

### 784- 5- AB  ITS MANAGER ETHERNET HUB SWITCH

<table>
<thead>
<tr>
<th>Unit</th>
<th>EA</th>
<th>Accuracy</th>
<th>Each</th>
<th>PlanQuantity?</th>
<th>no</th>
</tr>
</thead>
</table>

**Notes**

- For use in ITS communication networks to provide centralized Ethernet connections for ITS field devices utilizing field or edge switches. The Ethernet hub switch is hardened to withstand harsh environments and installation at remote locations. "Long haul" and "short haul" are common terms applied to telecommunication equipment in order to generally describe a devices ability to transmit information over various distances.

**Related Items**

**Required**

- Design SHTabQuant

**Recommended**

- Construction COMP 700-050-03

**Forms**

- Refer to Comp Book

**Documentation**

**Design**

- Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

- PPM Chapter
- Other
- Standards
- Specifications

---

**TRNS*PORT Category (DRAFT FIELD):** 0550  ITS

---

**Status**

**Struct.** 784- 5- AB  ITS MANAGER ETHERNET HUB SWITCH  EA

- **A = Operation**
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install)

---
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 5 11</td>
<td>ITS MANAGED ETHERNET HUB SWITCH, F&amp;I, LONG HAUL</td>
<td>EA</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td></td>
<td>$18,379.80</td>
</tr>
</tbody>
</table>

**784- 6- AB**  
**ITS WIRELESS COMMUNICATION DEVICE**

**Notes**

For use in transmitting and receiving data in ITS networks, especially between remotely located field devices and the mainline communications infrastructure that serves them. Devices include radion transmitter-receivers and antennas, power-over-Ethernet (PoE) injectors, serial cable, power supplies and mounting hardware. Access points and subscriber units are typically associated with Ethernet systems. Specifications needed to detail equipment requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Forms**
- **Required**: SHTabQuant
- **Recommended**: COMP 700-050-03

**Documentation**
- **Design**: Refer to Comp Book
- **Construction**: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
- **PPM Chapter**
- **Other Standards**
- **Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD)**: 0550 ITS

**Status**

**Struct.** 784- 6- AB  
**ITS WIRELESS COMMUNICATION DEVICE**  
**EA**

A = Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate))
- 5 (Adjust /Modify)
6 (Remove and Dispose) B=0, Contractor takes ownership

B= Type
1 (Ethernet Access Point)
2 (Ethernet Subscriber Unit)
3 (Serial Data Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0784 6 11</td>
<td>ITS WIRELESS COMMUNICATION DEVICE,F&amp;I,ETHERNET ACCESS POINT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$7,107.50</td>
</tr>
<tr>
<td>0784 6 12</td>
<td>ITS WIRELESS COMMUNICATION DEVICE, F&amp;I, ETHERNET SUBSCRIBER UNIT</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
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<td>$6,750.00</td>
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<tr>
<td>0784 6 60</td>
<td>ITS WIRELESS COMMUNICATION DEVICE,REMOVE &amp; DISPOSE</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td>7/16/2008</td>
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<td>0784 6 61</td>
<td>ITS WIRELESS COMMUNICATION DEVICE,REMOVE &amp; DISPOSE,ETHERNET ACCESS POINT</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
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</table>

785- 1- AB ITS POLE

Notes

Details
Use a lowering device in field locations where a CCTV camera or other ITS device is mounted on a pole, but the height precludes easy access to the equipment for maintenance or repair. The lowering device is provided along with a steel or concrete pole. Retrofit: to be used where a pole is already provided, to include furnishing & installation of lowering device.

Related Items

Forms

Required
Design: SHTabQuant
Construction: COMP 700-050-03

Recommended
Design: Refer to Comp Book

Documentation

Design: Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

Status

Struct. 785- 1- AB ITS POLE EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0
B= Type
1 (Concrete Pole w/ lowering device)
2 (Steel Pole w/ lowering device)
3 (Concrete Pole w/o lowering device)
4 (Steel Pole w/o lowering device)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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</thead>
<tbody>
<tr>
<td>0785 1 11</td>
<td>ITS POLE, F&amp;I, CONCRETE - WITH LOWERING DEVICE</td>
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<td></td>
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</table>

785- 2-ABC  ITS FIELD CABINET

Unit EA Accuracy Each PlanQuantity? no

Notes Effective July 2007 letting; replaces 785-2-AB

Details For use on ITS project. Refer to Specification for cabinets covered by Section 785. For Install, relocate, or adjust/modify operations, detail mounting requirements in the plans and/or specifications. Specifications for Install only items should include existing location of materials/equipment (i.e. maintenance yard address) NOTE: Items listed in other sections may have cabinets incidental to item being installed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items Required Recommended
Forms Design SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation Design
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications

*Selected Items may require Tech Spec and/or Plan Detail
Struct.  785-  2-ABC  ITS FIELD CABINET EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership BC=00

B= Type
1 (Type 336)
2 (Type 336 w/ sunshields)
3 (Type 336S)
4 (Type 336S w/ sunshields)
5 (Type 332)
6 (Type 332 w/ sunshields)
9 (Special)*

C= Mounting
1 (Pole Mount)
2 (Ground Mount)

Notes  * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>$5,000.00</td>
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<tr>
<td>0785 2141</td>
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<tr>
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<td>7/1/2007</td>
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<tr>
<td>0785 2191</td>
<td>ITS FIELD CABINET, F&amp;I, SPECIAL, POLE MOUNT</td>
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<td>7/1/2007</td>
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<td>$7,361.00</td>
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<tr>
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<td>7/1/2007</td>
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<tr>
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<td>7/1/2007</td>
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<td>7/1/2007</td>
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<tr>
<td>0785 2500</td>
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<td>7/1/2007</td>
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<td>$2,700.00</td>
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<tr>
<td>0785 2600</td>
<td>ITS CABINET, REMOVE &amp; DISPOSE</td>
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<td>7/1/2007</td>
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<td>$350.00</td>
</tr>
</tbody>
</table>

785-  3-ABC  ITS EQUIPMENT SHELTER

Details and Structure: Items 700 to 799
**Unit** | EA | **Accuracy** | Each | **Plan Quantity?** | no
---|---|---|---|---|---
**Notes** | Effective July 2007 letting; replaces 785-3-AB
**Details** | For use on ITS Projects. Refer to Specification for cabinets/shelter covered by Section 785. All shelter/building incidentals must be detailed in the plans or specifications, including electrical, mechanical, and/or HVAC.

DO NOT Use 750 Architectural Items with this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th><strong>Required</strong></th>
<th><strong>Recommended</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
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</table>

### References

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standards</td>
<td>Specifications</td>
</tr>
</tbody>
</table>

*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

**TRNS**<sup>*</sup>**PORT Category (DRAFT FIELD):** 0550 ITS

### Status

**Struct.** 785-3-ABC

ITS EQUIPMENT SHELTER

EA

A= Operation
1 (Furnish & Install)
2 (Furnish)*
3 (Install) BC=00*
4 (Relocate) BC=00*
5 (Adjust/Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership

B= Size (from exterior dimensions)
1 (up to 120 ft2)
2 (121 to 170 ft2)
3 (171 to 250 ft2)
9 (Special)*

C= Interior Ceiling Height
1 (8 ft)
2 (9 ft)

**Notes**:*A=2, 3, 4 verify with ITS Office prior to opening
*B=9 may require Tech Spec or Plan Detail

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0785 3112</td>
<td>ITS EQUIPMENT SHELTER, F&amp;I, 120 SQUARE FEET OR LESS 9' INTERIOR CEILING HEIGHT</td>
<td>EA</td>
<td>T</td>
<td>7/1/2007</td>
<td></td>
<td>$56,017.38</td>
</tr>
<tr>
<td>0785 3191</td>
<td>ITS EQUIPMENT SHELTER, F&amp;I, SPECIAL 9' INTERIOR CEILING HEIGHT</td>
<td>EA</td>
<td>T</td>
<td>7/1/2007</td>
<td></td>
<td>$85,850.00</td>
</tr>
</tbody>
</table>

### Notes

**Details**

For use on ITS Projects. Refer to Specifications for types of detection systems. Special Detection Systems require approval of the State ITS Office.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

**Required**

- Design: SHTabQuant
- Construction: Refer to Comp Book

**Recommended**

- Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### References

- PPM Chapter
- Other
- Standards
- Specifications

*Selected Items may require Tech Spec and/or Plan Detail

### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0550 ITS

### Status

**Struct.** 786-1-AB ITS VEHICLE DETECTION SYSTEM EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0

B= Detector Type
1 (Microwave)
2 (Video)
3 (Magnetic)
4 (Acoustic)
9 (Special) * Note: Requires prior approval of the ITS Office

### Notes

* Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0786 1 11</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, MICROWAVE</td>
<td>EA</td>
<td></td>
<td>1/1/2007</td>
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<td>$5,400.72</td>
</tr>
<tr>
<td>0786 1 12</td>
<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, VIDEO DETECTOR</td>
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<td>1/1/2007</td>
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<td>ITS VEHICLE DETECTION SYSTEM, F&amp;I, MAGNETIC DETECTOR</td>
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<td>1/1/2007</td>
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<td>ITS VEHICLE DETECTION SYSTEM, INSTALL, MICROWAVE</td>
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<td>0786 1 39</td>
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<tr>
<td>0786 1 41</td>
<td>ITS VEHICLE DETECTION SYSTEM, RELOCATE, MICROWAVE</td>
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<td>1/1/2007</td>
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</tr>
<tr>
<td>0786 1 42</td>
<td>ITS VEHICLE DETECTION SYSTEM, RELOCATE, VIDEO</td>
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<td>$1,909.50</td>
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</table>
Chapter 18

Items 800 to 899

State Specifications and Estimates Office
Estimating Systems Support Section
### Notes

Items 800 to 899: Mass Transit items removed due to lack of use. Item Structures restored upon request.

### Details

- **Related Items**
  - Required
  - Recommended
- **Forms**
  - Design
  - Construction
- **Documentation**
  - Design
  - Construction
- **References**
  - PPM Chapter
  - Other
  - Standards
  - Specifications
  - Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):**

### Status

**Struct.** 800- **MASS TRANSIT - RAIL ROAD**

---

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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Chapter 19

Items 900 to 999

State Specifications and Estimates Office
Estimating Systems Support Section
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901-337-8  BONDED ASPHALT CONCRETE FRICTION COURSE

Unit: TN; MT  Accuracy: 10th of a Ton; 10th of a Metric Ton  Plan Quantity: no

Notes
Contact - Emmanuel Uwaibi  for use

Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
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</table>

References
PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200  Roadway

Struct. 901-337-8  BONDED ASPHALT CONCRETE FRICTION COURSE  TN

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Unit</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<td>BONDED ASPHALT CONCRETE FRICTION COURSE</td>
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<td>9/30/2008</td>
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904-439- A  SYNTHETIC SUBSURFACE DRAINAGE LAYER

Unit: SY; M2  Accuracy: Square Yard; Square Meter  Plan Quantity: no

Notes
Monitor: Larry Jones, State Structures Office

Details
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

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<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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References
PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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<th>Item</th>
<th>Description</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tr>
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<td>SYNTHETIC SUBSURFACE DRAINAGE LAYER, DOUBLE SIDED</td>
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**904-540- A**  
HIGH TENSION CABLE BARRIER SYSTEM

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</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
This is a trial item; contact the Monitor prior to use. Refer to Design Bulletin 07-08 for additional details.

**Details**
Monitor: Andy Keel through 12/05: A=1 complete system included anchors.
Effective 1/2006: A=2 or 3 defines type of post system, to be used with A=4 end terminal.

THE MONITOR WILL SELECT WHICH ITEM(S) are to be used on a given project, as well as advise when specific notes and/or details are to be added to the plans.

Use Miscellaneous Asphalt item for mow strip.

**Related Items**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Required</th>
<th>Recommended</th>
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<tbody>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
</tr>
</tbody>
</table>

**References**
PPM Chapter
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS**\(^*\)**PORT Category (DRAFT FIELD): 0200 Roadway

**Status**

**Struct.** 904-540 - A HIGH TENSION CABLE BARRIER SYSTEM LF

A= Type*
1 (System with anchors) LF
2 (Socketed Post System) LF
3 (Driven Post System) LF
4 (End Terminal) EA

**Notes**
*The Monitor will select which item(s) to use on a given project.

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0904540 1</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - WITH ANCHORS</td>
<td>LF T</td>
<td>6/1/2008</td>
<td>9/30/2008</td>
<td>$19.30</td>
<td></td>
</tr>
<tr>
<td>0904540 2</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - SOCKETED POST</td>
<td>LF T</td>
<td>1/1/2007</td>
<td></td>
<td>$14.30</td>
<td></td>
</tr>
<tr>
<td>0904540 4</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - END TERMINAL</td>
<td>EA T</td>
<td>1/1/2007</td>
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<td>$2,587.50</td>
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<tr>
<td>0904540 10</td>
<td>HIGH TENSION CABLE BARRIER SYSTEM - RELOCATE</td>
<td>LF T</td>
<td>1/1/2007</td>
<td></td>
<td>$10.00</td>
<td></td>
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</tbody>
</table>

---

**904-711-ABC** THERMOPLASTIC, NO TRACK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Mixed</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Refer to item structure and details</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
Monitor: Chester Henson
Developmental Item- initial end date set at 6-30-2005. May only be changed with monitor's approval.

**Details**
Monitor: Chester Henson.
Contact the monitor prior to using this item.

**Related Items**

<table>
<thead>
<tr>
<th><strong>Forms</strong></th>
<th><strong>Required</strong></th>
<th><strong>Recommended</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

**Documentation**

| **Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

PPM Chapter Other Standards Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS**\(^*\)**PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

**Status**
Struct.  904-711-ABC  THERMOPLASTIC, NO TRACK  Mixed

A = color
1 (white)
2 (yellow)
B = type
1 (solid), per NM or NK Note: C = 1 or 2
2 (skip), per GM or GK Note: C = 1 or 2
3 (solid), per LF or M1
4 (skip), per LF or M1
5 (guidelines), per LF or M1
6 (messages), EA Note: C = 0
C = width
0 (blank- used for B =6)
1 (6")
2 (8")
3 (10")
4 (12")
5 (16")
6 (18")
7 (24")

Notes
Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

905-324- A  REWORKED ASPHALT CONCRETE

Unit  SY; M2  Accuracy  Square Yard; Square Meter  PlanQuantity?  no

Notes  Monitor: Manny Uwaibi
Details  Monitor: Manny Uwaibi, State Pavement Design Office.
         Contact the monitor prior to using this item.
Related Items  Required  Recommended
Forms  Design  Construction
Documentation  Design  Construction
References  PPM Chapter
Other  Standards  Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):
Status
Struct.  905-324- A  REWORKED ASPHALT CONCRETE  SY
Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0905324</td>
<td>1</td>
<td>REWORKED ASPHALT CONCRETE</td>
<td>SY</td>
<td>1/1/2007</td>
<td></td>
<td>$13.18</td>
</tr>
</tbody>
</table>

**905-707- 1** STRIPING & MARKING- ASPHALT RESISTANT

**Unit** | LS/LS  
**Accuracy** | Lump Sum  
**PlanQuantity?** | no

**Notes**
This is a developmental Item; contact the monitor prior to use. Valid for projects let March 2005 through June 2006. Date may be extended only by Monitor.

**Details**
Monitor: Ananth Prasad

**Related Items**
**Required** | **Recommended**

**Forms**
**Design** | SHTabQuantLS  
**Construction** | COMP 700-050-05

**Documentation**
**Design** | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
**PPM Chapter**
**Other**
**Standards**
**Specifications**
**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0300 Signing and Pavement Markings

**Status**
**Struct.** 905-707- 1 STRIPING & MARKING- ASPHALT RESISTANT LS/LS

**Notes**
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

**906-102- 1** AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

**Unit** | ED  
**Accuracy** | Each Day  
**PlanQuantity?** | no

**Notes**
This is a developmental item; designers must get approval from the monitor prior to use.

**Details**
Monitor: Cheryl Adams  
Limited Use- When approved, Construction must document effectiveness for FHWA evaluation of this experimental item.  
Coordinate all reports with the monitor.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
**Required** | **Recommended**

**Forms**
**Design** | SHTabQuant  
**Construction** | COMP 700-050-03

**Documentation**
**Design** | Refer to Comp Book

**Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book).
### Standards

#### Specifications

- **Developmental Specification required.**

- **Prep & Doc Manual Chapter(s)**

| TRNS*PORT Category (DRAFT FIELD): | 0200 Roadway |

### Status

#### Struct.  906-102- 1

- **AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD) ED**

### Notes

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

---

<table>
<thead>
<tr>
<th>906-173- A</th>
<th>POLYURETHANE INJECTION AT BOX CULVERT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>LB; KG</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>Pound; Kilogram</td>
</tr>
<tr>
<td><strong>Quantity?</strong></td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes

- This is a trial item; contact the Monitor prior to use

#### Details

- to be used only with approval of State Structures Design Office
- to be used for specialty geotechnical work.

#### Related Items

- **Required**
- **Recommended**

<table>
<thead>
<tr>
<th>Forms</th>
<th>Design</th>
<th>CADD Form not specified;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Documentation</th>
<th>Design</th>
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<tbody>
<tr>
<td></td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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</tbody>
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#### References

- PPM Chapter
- Other
- Standards
- Specifications

- Plan Detail and/or Tech Spec Required
- Prep & Doc Manual Chapter(s)

---

<table>
<thead>
<tr>
<th>906-334-1</th>
<th>FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit</strong></td>
<td>TN; MT</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>10th of a Ton; 10th of a Metric Ton</td>
</tr>
<tr>
<td><strong>Quantity?</strong></td>
<td>no</td>
</tr>
</tbody>
</table>

#### Notes

- This is a trial item; contact the Monitor prior to use

---

Details and Structure: Items 900 to 999
Details
Monitor: Greg Sholar.
to be used only with approval of Asphalt Materials and/or Pavement Office. Intended for Agricultural Inspection and Weigh stations

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
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</table>

References
PPM Chapter
Other
Specifications

Prep & Doc Manual Chapter(s)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906334 1</td>
<td>FUEL RESISTANT SUPERPAVE ASPHALTIC CONCRETE</td>
<td>TN</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2007</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

906-340- 1 OPEN GRADED CRACK RELIEF LAYER

Notes
This is a developmental item; contact the Monitor prior to use.

Details
Contact the State Materials Office for assistance with this office. Developmental Specification required.
Used as a first layer over existing cracked pavement. Use only with concurrence from District Materials Engineer. Estimate Quantities based on a thickness of 1 inch, with equivalent spread rate of 107 lb/sy.

Related Items
<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
</tbody>
</table>

Details and Structure: Items 900 to 999
### Item 906-340-1: Open Graded Crack Relief Layer

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN GRADED CRACK RELIEF LAYER TN</td>
<td>TN</td>
<td>T</td>
<td>9/1/2008</td>
<td>9/30/2008</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**Notes:**

- This item was open as of the publication date. Refer to the Master Pay Item list for current items.

### Item 906-455-1: Composite Sheet Piling

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPOSITE SHEET PILING SF</td>
<td>SF; M2</td>
<td>Square Foot; 10th of a Square Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes:**

- This is a trial item; contact the Monitor prior to use.
- Monitor: Larry Jones
- Low height sheet pile for shoreline protection. Polyurethane resin/glass fiber matrix pultruded material. Experimental use only.

**Related Items:**

- **Required:** SHTabQuant
- **Recommended:** COMP 700-050-01

**Forms:**

- **Design:** Refer to Comp Book
- **Construction:**
  - **Design:** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
  - **Construction:** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References:**

- PPM Chapter
- Other
- Standards
- Specifications

---

### Item 906-546-1: Temporary Raised Rumble Strips

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPORARY RAISED RUMBLE STRIPS</td>
<td>PS</td>
<td>Per Set</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes:**

- This item was open as of the publication date. Refer to the Master Pay Item list for current items.
This is a trial item; contact the Monitor prior to use
Monitor: Cheryl Adams

For use with flagging operations on a two-lane, two way roadway. Four Sets are to be used, in each direction of the roadway, in advance of the flagging station. Refer to the specification for details.

### Related Items

<table>
<thead>
<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
</tbody>
</table>

### Documentation

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances. |

### References

PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>0906546 1</td>
<td>RUMBLE STRIPS, RAISED, TEMPORARY</td>
<td>PS</td>
<td>TSP/Detail</td>
<td>1/1/2006</td>
<td></td>
<td></td>
<td>$692.47</td>
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</table>

### Notes

This is a project-specific item.

Contact the State Structures Design Office prior to requesting this item.

### Related Items

<table>
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<tr>
<th>Forms</th>
<th>Required</th>
<th>Recommended</th>
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</thead>
<tbody>
<tr>
<td>Design</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Documentation

| Design | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)
### 906-548-1 SOLDIER PILE WALL SF

#### Notes

This is a project-specific item.

#### Details

Contact the State Structures Design Office prior to requesting this item.

#### Related Items

**Required**

**Recommended**

#### Forms

**Design**

Refer to Comp Book

**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References

**PPM Chapter**

Other

**Standards**

**Specifications**

**Prep & Doc Manual Chapter(s)**

### 906-548-2 SOLDIER NAIL WALL SF

#### Notes

This is a trial item; contact the Monitor prior to use

#### Details

Monitor: Karen Byram

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
### Structural Steel - Cables

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906560</td>
<td>PAINT STRUCT STEEL, CABLES</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$88.71</td>
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</table>

**Notes:**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>906-609-100</td>
<td>TRAFFIC SIGNAL SYSTEM</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Unit:** PI  
**Accuracy:** Per Intersection  
**PlanQuantity:** no

**Notes:**
This is a trial item; contact the Monitor prior to use

**Details:**
Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.
Intended for the payment of traffic signal systems, per intersection. Refer to the specifications for detailed list of items included/excluded for payment under this item.
**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct. 906-609- AA TRAFFIC SIGNAL SYSTEM PI**

AA = Intersection Number
1 (Intersection 1)
2 (Intersection 2)
## as needed for additional intersections on a proposal

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

| 906-609-100 INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM |
|---|---|---|---|---|
| **Unit** | LF; M1 | **Accuracy** | Linear Foot; 10th of a Meter | **PlanQuantity?** | no |

**Notes**

This is a trial item; contact the Monitor prior to use

**Details**

Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.
For use only with Traffic Signal System, per intersection. Includes cable, conduit, pull boxes, and other signals materials/items between intersections which are not included under per intersection item. Refer to the specifications for additional information.

**Related Items**

**Required** 906-609- AA

**Recommended**

**Forms**

**Design** SHTabQuant

**Construction** Refer to Comp Book

**Documentation**

**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

**Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Other Standards Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct. 906-609-100 INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

| 906-633-1 FIBER OPTIC AERIAL SPLICE ENCLOSURE |
|---|---|---|---|---|
| **Unit** | EA | **Accuracy** | Each | **PlanQuantity?** | no |

**Notes**

New item for one-time use in district 5. Future use requires approval of Design and
Specifications

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
</tr>
<tr>
<td>References</td>
<td>PPM Chapter</td>
<td>Other</td>
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<td></td>
<td>Standards</td>
<td>Specifications</td>
</tr>
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</table>

Plan Details and/or Tech Spec required

Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0500 Signalization

**Status**

**Struct.** 906-633-1 FIBER OPTIC AERIAL SPLICE ENCLOSURE EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
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<th>Item</th>
<th>Description</th>
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<td>0906633 1</td>
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**906-701- AA AUDIBLE STRIPE**

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<tr>
<td>Accuracy</td>
<td>Refer to item structure and details</td>
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**Notes**

Valid through 8-31-08; replaced by new 701 items. Refer to April 2008 Estimates/Roadway Bulletin.

This is a Developmental item; contact the Monitor prior to use

**Details**

Monitor: Chester Henson

This is a developmental item; contact the monitor prior to use.

**Related Items**

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<thead>
<tr>
<th>Required</th>
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<tbody>
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<tr>
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<td>PPM Chapter</td>
</tr>
<tr>
<td>Standards</td>
<td>Specifications</td>
</tr>
</tbody>
</table>

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Details and Structure: Items 900 to 999
### Topic No. 600-000-002

#### Basis of Estimates

2009 Edition

October 6, 2008

---

**Struct.  906-701- AA AUDIBLE STRIPE Mixed**

Verify structure with Monitor prior to opening items

- `AA=`
  - `32` (Yellow, Skip, 6") GM
  - `34` (Yellow, Skip, 6") LF
  - `35` (White, Solid, 6") LF
  - `36` (Yellow, Solid, 6") LF
  - `37` (White, Solid, 6") NM
  - `38` (Yellow, Solid, 6") NM
  - Others, per specification.

**Notes**

- Mile (kilometer) units only valid with 6” or 8” stripes
- Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0906701 32</td>
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**Struct.  906-702- AA INVERTED RIB PROFILE MARKINGS Mixed**

**Notes**

- Contact Chester Henson for information.

**Details**

- Pay Item structure updated with 9-8-06 developmental specification

**Related Items**

- **Required**
  - Design: SBTBSP
  - Construction: COMP 700-050-03

- **Recommended**
  - Design: Refer to Comp Book
  - Construction: Record final quantity on the tabulation sheet (plans) or computation form (comp book).

---

**Prep & Doc Manual Chapter(s)**

2009 Edition

October 6, 2008

---

Details and Structure: Items 900 to 999

---

Page 14 of 33
Verify structure with Monitor prior to opening items

AA=
31 (White, Skip, 6") GM
32 (Yellow, Skip, 6") GM
33 (White, Skip, 6") LF
34(Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM

others, per specification.

Notes
Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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907-455- A
CONCRETE CYLINDER PILE

Unit LF; M1  Accuracy Linear Foot; 10th of a Meter  PlanQuantity?

Notes Specification under development; do not open items until specification is complete

Details Monitor: Larry Sessions, State Structures Design Office
Details needed from Monitor

Related Items Required  Recommended
Forms Design  Construction
Documentation Design  Construction
References PPM Chapter  Other  Standards  Specifications
Prep & Doc Manual Chapter(s)

Details and Structure: Items 900 to 999
### 907-455- A CONCRETE CYLINDER PILE LF

**A = Diameter**

1 (27.6")
2 (31.5")
3 (34.5")
4 (39.4")

**Notes**: DO NOT OPEN WITHOUT APPROVAL OF THE MONITOR

---

**Status**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

#### 907-715-AAA LIGHTING- HURRICANE REPAIRS

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<tr>
<td>Details</td>
<td>Valid for D-4 projects with dedicated &quot;Hurricane Repair&quot; funds. Approvals needed for any other use.</td>
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**Related Items**

Required | Recommended

**Forms**

Design

Construction

**Documentation**

Design

Construction

**References**

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

---

**Status**

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

---

#### 907-715-AAA LIGHTING- HURRICANE REPAIRS

**AA Structure as requested**

---

**Notes**: The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Item</th>
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</table>
0907715 27  HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 8  EA  1/1/2007  $5,000.00

0907715 28  HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 9  EA  1/1/2007  $5,000.00

0907715 29  HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 10  EA  1/1/2007  $5,000.00

0907715 30  HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 11  EA  1/1/2007  $5,000.00

0907715 31  HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, GALVANIZED, 45'  EA  1/1/2007  $5,000.00

0907715 32  HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, CONCRETE, 40'  EA  1/1/2007  $5,000.00

0907715 33  HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, CONCRETE, 50'  EA  1/1/2007  $5,000.00

0907715 34  HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, WOOD, 40'  EA  1/1/2007  $1,500.00

0907715 35  HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, WOOD, 50'  EA  1/1/2007  $5,000.00

0907715 36  HURRICANE REPAIRS, DIAGNOSTIC WORK, LOAD CENTER  LO  1/1/2007  $150.00

0907715 37  HURRICANE REPAIRS, DIAGNOSTIC WORK, CIRCUIT  LO  1/1/2007  $750.00

0907715 38  HURRICANE REPAIRS, DIAGNOSTIC WORK, HIGH MAST, AERIAL  LO  1/1/2007  $1,500.00

0907715 39  HURRICANE REPAIRS, ROUTINE LIGHTING MAINTENANCE BRIDGE  LO  1/1/2007  $2,750.00

908-102- 1  MICROSURFACING FOR MOT

<table>
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<th>Unit</th>
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<tbody>
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</table>

Notes  MONITOR: Manny Uwaibi, State Pavement Design Office Developmental Item

Details  Contact the State Pavement Design Office for approval, prior to using this item.

This item intended for placing a thin asphalt layer for covering pavement markings, rather than removing conflicting pavement markings, during construction MOT at critical areas such as entrances and exits to Service Plazas and Toll Plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Design</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td></td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
<td></td>
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**Specifications**

<table>
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<tr>
<th>PPM Chapter</th>
<th>Other Standards Specifications</th>
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<tr>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Struct.** 908-102-1 **MICROSURFACING FOR MOT** SY

**Notes** Approval Required

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Notes** Approval Required

---

**908-104-1** **CONTRACTOR'S SEDIMENT AND EROSION CONTROL**

**Unit** LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

**Notes** DEVELOPMENTAL SPECIFICATION REQUIRED; to be used only with permission of State Construction Engineer and/or State Drainage Engineer. Valid only for projects let July 1, 2008 to December 31, 2008

**Details** For use with Erosion Control Best Management Practices (BMP) guidelines and Developmental Specification. When this item is used, DO NOT USE any other Sediment/Erosion Control items (104 items).

***************DRAFT BELOW**************

*******PPM Guidance Pending ***************

For the purposes of providing the contractor information needed for the development of its Erosion and Sediment Control Plan, the Department’s Engineer of Record would need to provide the following information in the plans:

1. Delineation of wetland areas
2. Identification of Limits of Construction
3. Hydraulic maps
4. Contour maps
5. existing drainage facilities
6. drainage maps with flow patterns identified
7. forms required for reporting and documenting compliance
8. runoff coefficients
9. NPDES requirements

**Related Items**

**Required**

**Recommended**

---

**Details and Structure:** Items 900 to 999
### Item 908-104

**Description:** CONTRACTOR'S SEDIMENT AND EROSION CONTROL LS/LS

**Notes:** DO NOT OPEN without approval from David Sadler and/or Rick Renna

**Status**
- **Struct.** 908-104-1
- **TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Details and Structure:** Items 900 to 999

**Prep & Doc Manual Chapter(s):**
- PPM Chapter
- Other
- Standards
- Specifications

**References**
- PPM Chapter

**Notes**

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>908104</td>
<td>CONTRACTOR'S SEDIMENT AND EROSION CONTROL</td>
<td>LS</td>
<td>T</td>
<td>7/1/2008</td>
<td>12/31/2010</td>
<td>$0.00</td>
<td></td>
</tr>
</tbody>
</table>

### Item 908-107

**Description:** Mitigation for Project Number 210427-3-52-01

**Notes**

- The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>908-107-908-107-</td>
<td>908-107- A</td>
<td>Unit</td>
<td>CY; M3</td>
<td>PlanQuantity?</td>
</tr>
</tbody>
</table>

**Details and Structure:** Items 900 to 999

**Prep & Doc Manual Chapter(s):**
- PPM Chapter

**References**
- PPM Chapter

**Notes**

- **TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**
- **Struct.** 908-107- A

**Details and Structure:** Items 900 to 999
of a Cubic Meter

Notes
Monitor: Larry Jones, State Geotechnical Engineer

Details
Contact the State Structures Office for approval, prior to using this item.

This item is intended to be used for dry-method of mass soil mixing to stabilize organic subsoils and minimize the potential for future settlements.

The work includes mechanically blending the in-situ surface soils (muck) overlying limestone with a reagent binder to increase the soil strength, reduce settlement characteristics, and provide a stable soil surface for the roadway.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPM Chapter</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Standards</td>
</tr>
<tr>
<td>Specifications</td>
</tr>
</tbody>
</table>

TRNS*PORT Category (DRAFT FIELD):

Status
Struct.  908-170- A  DEEP SOIL MIXING  CY

A= Method
1 (Dry)

Notes
Valid only for project 220499-1-52-01. Contact Monitor for consideration on other projects

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908170 1</td>
<td>DEEP SOIL MIXING, DRY</td>
<td>CY</td>
<td>T</td>
<td>7/14/2008</td>
<td>12/31/2009</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

908-350- A  FIBER REINFORCED CONCRETE PAVEMENT

Notes
Monitor: Manny Uwaibi

Details
Contact the State Pavement Design Office prior to use.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td>Documentation</td>
<td>Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPM Chapter</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Standards</td>
</tr>
<tr>
<td>Specifications</td>
</tr>
</tbody>
</table>

Details and Structure: Items 900 to 999
### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200  Roadway

### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908350 1</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 11&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
<tr>
<td>0908350 1</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 11&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
<tr>
<td>0908350 2</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 14&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
<tr>
<td>0908350 2</td>
<td>FIBER REINFORCED CONCRETE PAVEMENT, 14&quot; AVE THICKNESS</td>
<td>SY</td>
<td>T</td>
<td>1/1/2009</td>
<td>12/31/2009</td>
<td>$350.00</td>
</tr>
</tbody>
</table>

#### 908-400- A SKYWAY- LIGHTNING PROTECTION SYSTEM

**Notes**

SKYWAY Bridge Only. One-time use item for bridge structure.

**Related Items**

**Required**

**Recommended**

**Forms**

Design  
Construction

**Documentation**

Design  
Construction

**References**

PPM Chapter  
Other  
Standards  
Specifications

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0100  Structures

### Status

**Struct.** 908-400- A  SKYWAY- LIGHTNING PROTECTION SYSTEM  EA

A= 1

**Notes**

For use ONLY on the SKYWAY Bridge

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908400 1</td>
<td>SKYWAY - LIGHTNING PROTECTION SYSTEM</td>
<td>EA</td>
<td>Y</td>
<td>3/1/2008</td>
<td>12/30/2008</td>
<td>$0.00</td>
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</table>

#### 908-430- A DRAINAGE MATERIALS

**Details and Structure:** Items 900 to 999
**Basis of Estimates**

**Unit**: LS/LS  
**Accuracy**: Lump Sum  
**PlanQuantity?**: yes

**Details**: A=1: Plans and/or Specifications must clearly identify materials to be furnished under special agreement with local agency.

**Related Items**: Required  
**Recommended**:  

**Forms**:  
**Design**  
**Construction**

**Documentation**:  
**Design**  
**Construction**

**References**:  
**PPM Chapter**  
**Other**  
**Standards**  
**Specifications**  
**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD)**: 0200 Roadway

**Status**  
**Struct.**: 908-430- A  
**DRAINAGE MATERIALS**

**Notes**: One-time use; District 1 item

---

**908-431- A PIPE LINER- SECTIONAL REPAIR**

**Unit**: LF; M1  
**Accuracy**: Linear Foot; 10th of a Meter  
**PlanQuantity?**

**Notes**: Contact the State Drainage Office prior to use.  
Box-to-Box repairs are normally preferred (use Item 431-). When a Sectional Repair is considered, coordinate with the State Drainage Office. New materials/methods may be recommended.

**Related Items**: Required  
**Recommended**

**Forms**:  
**Design**  
**Construction**  

**Documentation**:  
**Design**  
**Construction**

**References**:  
**PPM Chapter**  
**Other**  
**Standards**  
**Specifications**  
**Prep & Doc Manual Chapter(s)**

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

---

*Details and Structure: Items 900 to 999*
### Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908431 1</td>
<td>PIPE LINER, SECTIONAL REPAIR, 0-24&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
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<tr>
<td>0908431 2</td>
<td>PIPE LINER, SECTIONAL REPAIR, 25-36&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
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<tr>
<td>0908431 3</td>
<td>PIPE LINER, SECTIONAL REPAIR, 37-48&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
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<tr>
<td>0908431 4</td>
<td>PIPE LINER, SECTIONAL REPAIR, 49-60&quot;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
<td>$113.52</td>
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<tr>
<td>0908431 5</td>
<td>PIPE LINER, SECTIONAL REPAIR, 61&quot; OR &gt;</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td>12/31/2008</td>
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### 908-450- A

<table>
<thead>
<tr>
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<th>PlanQuantity?</th>
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<tr>
<td></td>
<td>Required</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recommended</td>
<td></td>
</tr>
</tbody>
</table>

**Related Items**

- **Forms**
  - Design
  - Construction

- **Documentation**
  - Design
  - Construction

- **References**
  - PPM Chapter
  - Other
  - Standards
  - Specifications

- **Prep & Doc Manual Chapter(s)**

---

*TRNS*PORT Category (DRAFT FIELD):

**Status**

**Struct.** 908-450- A

---

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*
### 908-463- A FIBER REINFORCED COMPOSITE DECK

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
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</thead>
<tbody>
<tr>
<td>SF; M2</td>
<td>Square Foot; 10th of a Meter</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**
Valid only for test project

**Details**
One time use only: Project 415316-1-52-01, let 3-25-09

INSTALL: Decking to be purchased by FDOT. Contractor will pick up materials from operation center and install it per plans & specifications.

**Related Items**
Required

**Forms**
Design
Construction

**Documentation**
Design
Construction

**References**
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

---

**TRNS*PORT Category (DRAFT FIELD):** 0100 Structures

**Status**

**Struct.** 908-463- A FIBER REINFORCED COMPOSITE DECK SF

A= Operation
1 (Install)

**Notes**
One-time use; project 415316-1-52-01, let 3-25-09

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908463 1</td>
<td>FIBER REINFORCED COMPOSITE DECK, INSTALL</td>
<td>SF</td>
<td>3/25/2009</td>
<td>3/26/2009</td>
<td>$0.00</td>
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</tr>
</tbody>
</table>

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### 908-560- 1 CAULK FOR HART BRIDGE

<table>
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<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>Plan Quantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>yes</td>
</tr>
</tbody>
</table>

**Notes**
Valid for use only on Hart Bridge

**Details**
Tech Specs/Plan details required to detail material requirements (compatibility with coatings to be applied)

**Related Items**
Required

**Forms**
Design
Construction

**Documentation**
Design
Construction

---

Details and Structure: Items 900 to 999
### Item 908-560-1: Caulking for Hart Bridge

**Unit**: LF

**Valid Date**: 8/1/2008

**Obsolete Date**: 12/31/2008

**Reference Price**: $1.00

**Notes**: Valid for use only on Hart Bridge

**Details**: Tech Specs/Plan details required to detail grinding requirements

**Related Items**: Required

**Forms**: Design

**Documentation**: Design

**References**: PPM Chapter

**Status**: Valid

---

### Item 908-560-2: Grinding for Hart Bridge

**Unit**: LF; M1

**Accuracy**: Linear Foot; 10th of a Meter

**PlanQuantity?**: yes

**Notes**: Valid for use only on Hart Bridge

**Details**: Tech Specs/Plan details required to detail grinding requirements

**Related Items**: Required

**Forms**: Design

**Documentation**: Design

**References**: PPM Chapter

**Status**: Valid

---

### Item 908-571-1: Transition Mat

**Unit**: SY; M2

**Accuracy**: Square Yard; Square Meter

**PlanQuantity?**: no

**Notes**: Monitor: Larry Ritchie, State Construction Office

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
Contact the State Construction Office for approval, prior to using this item.

Transition Mat for scour and permanent erosion control.

**Related Items**
- **Required**
- **Recommended**

**Forms**
- **Design**
- **Construction**

**Documentation**
- **Design**
- **Construction**

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

**Prep & Doc Manual Chapter(s)**

---

**TRNS**<sup>PORT Category (DRAFT FIELD):</sup> 0200 Roadway

### Status

**Struct.** 908-571-1 TRANSITION MAT SY

---

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0908571 1</td>
<td>TRANSITION MAT</td>
<td>SY</td>
<td>T</td>
<td>9/15/2008</td>
<td>12/31/2009</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

---

**908-648- A** SIGNALS TRUSS, SPECIAL

**Notes**

Limited use item

**Details**

Opened for selected District 1 projects for signals structures (truss).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**
- **Required**
- **Recommended**

**Forms**
- **Design**
- **Construction**

**Documentation**
- **Design**
- **Construction**

**References**
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications**

Plan details and/or Tech Specs required

**Prep & Doc Manual Chapter(s)**

---

**TRNS**<sup>PORT Category (DRAFT FIELD):</sup> 0200 Roadway

### Status

**Details and Structure:** Items 900 to 999
Struct. 908-648- A SIGNALS TRUSS, SPECIAL

A= Operation
1 (F&I) Project 417365-1-52-01, 9/10
2 (F&I) Project 408268-5-52-01, 3/09

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0999 2</td>
<td>LUMP SUM CONTRACT, ALTERNATIVE BIDDING</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$879,508.82</td>
</tr>
</tbody>
</table>

999- 2- LUMP SUM CONTRACT (ALTERNATIVE BIDDING)

Unit LS/LS Accuracy Lump Sum PlanQuantity? no

Notes

Details See latest guidelines for Innovative Bidding practices.

Related Items Required Recommended

Forms Design SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation Design

Construction

References PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) Contact Final Estimates

$TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 999- 2- LUMP SUM CONTRACT (ALTERNATIVE BIDDING) LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0999 2</td>
<td>LUMP SUM CONTRACT, ALTERNATIVE BIDDING</td>
<td>LS</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$879,508.82</td>
</tr>
</tbody>
</table>

999- 5- LANE RENTAL DAYS (TIME BID)

Unit DD Accuracy Dollars per day PlanQuantity? no

Notes

Details See latest guidelines for Innovative Bidding Practices.

Related Items Required Recommended

Forms Design SHTabQuant COMP 700-050-03

Construction 700-050-57

Documentation Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).
The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 999-16- PARTNERING (DO NOT BID)

<table>
<thead>
<tr>
<th>Unit</th>
<th>LS/LS</th>
<th>Accuracy</th>
<th>Lump Sum</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

**Details**
The use of this pay item will be initiated by the District Construction Office. The purpose is to provide an amount of money to the contractor to pay for the cost of a partnering session(s). Designers will load the pay item and provide the cost to be overrun to the District Estimates Coordinator.

*NOTE:* Construction will advise the designer when to use this item. They will also provide the designer with the number of days and the cost per day.

**Related Items**

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

<table>
<thead>
<tr>
<th>Design</th>
<th>Computation book form or documentation from Construction required.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

**References**

<table>
<thead>
<tr>
<th>PPM Chapter</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

11, 13

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### 999-20- DISPUTE REVIEW BOARD (DO NOT BID)

<table>
<thead>
<tr>
<th>Unit</th>
<th>DA</th>
<th>Accuracy</th>
<th>Day</th>
<th>PlanQuantity?</th>
</tr>
</thead>
</table>

**Details**
The use of this pay item will be initiated by the District Construction Office. The purpose is...
to require a Dispute Resolution Board to be established for the project and to provide the contractor a specific amount of money to pay for the services of each of the three Board members. Designers will load the pay item and the number of days (meetings).

NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days (meetings), based on 1 meeting per month for the length of the contract. The cost has been hard coded at $3,300.00* as the unit price for this item. Only the Director of Construction can approve a change to this amount.

*Verify current amount with specification.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation Design</td>
<td>Computation book form or documentation from Construction required.</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Record final quantity on the computation book form.</td>
<td></td>
</tr>
<tr>
<td>References PPM Chapter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
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<td></td>
</tr>
<tr>
<td>Standards Specifications</td>
<td></td>
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<tr>
<td>Prep &amp; Doc Manual Chapter(s)</td>
<td>11, 13</td>
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</table>

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct.** 999- 20- DISPUTE REVIEW BOARD (DO NOT BID) DA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
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<tbody>
<tr>
<td>0999 16</td>
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</tbody>
</table>

**999- 25- INITIAL CONTINGENCY AMOUNT (DO NOT BID)**

**Unit** $  **Accuracy** Dollars  **PlanQuantity?** no

**Notes**

IMPORTANT: INITIAL CONTINGENCY TOTAL IS BASED ON PROPOSAL TOTAL, not individual project totals.

**Details**

Use when requested by Construction, in accordance with the CPAM (Construction Project Administration Manual). The item will be loaded as FA Participating and the cost will be input by the District Estimates Coordinator. Load item in Roadway Category. When a contract contains multiple projects, this item may be used on each project within the contract, if recommended by construction. Note that the totals listed in the CPAM are per PROPOSAL/CONTRACT, not per project.

Department Policy (per F. Simmons, 10-1-02): Include Initial Contingency Amount on all Design-Build Contracts.

<table>
<thead>
<tr>
<th>Related Items</th>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms Design</td>
<td>SHTabQuant</td>
<td>COMP 700-050-03</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
<td></td>
</tr>
<tr>
<td>Documentation Design</td>
<td>See Detail</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>see detail</td>
<td></td>
</tr>
<tr>
<td>References PPM Chapter</td>
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</tr>
<tr>
<td>Other</td>
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The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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<th>Price</th>
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### 999-102- A SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)

<table>
<thead>
<tr>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor: Cheryl Adams</td>
</tr>
<tr>
<td>A=Contract Type refer to contract between FDOT and Law enforcement, NOT type of Construction Contract.</td>
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<table>
<thead>
<tr>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>This item is used to provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling speed and enforcing traffic laws in the work zone. Officers should be actively involved in either directing traffic or reducing speeding and traffic violations present in our work zones.</td>
</tr>
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<table>
<thead>
<tr>
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<td>102-14 (2012-14)</td>
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<td>Design</td>
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<td>SHTabQuant</td>
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<tr>
<td>Construction</td>
</tr>
<tr>
<td>Refer to Comp Book</td>
</tr>
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<table>
<thead>
<tr>
<th>Documentation</th>
</tr>
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<tr>
<td>Design</td>
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<tr>
<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
</tr>
<tr>
<td>Construction</td>
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<tr>
<td>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</td>
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<th>References</th>
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<tr>
<td>PPM Chapter</td>
</tr>
<tr>
<td>Other</td>
</tr>
<tr>
<td>Standards</td>
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<tr>
<td>Specifications</td>
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### Prep & Doc Manual Chapter(s)

**TRNS*PORT Category (DRAFT FIELD):** 0200 Roadway

**Status**

**Struct. 999-102- A SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)**

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<tr>
<td>A =</td>
</tr>
<tr>
<td>1 = Central Office Statewide Contract</td>
</tr>
<tr>
<td>2 = District Contract</td>
</tr>
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</table>

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
999-455- AB  PILING- PRESTRESSED

Unit  LF; M1  Accuracy  Linear Foot; 10th of a Meter

Notes

Details

Related Items

Required  Recommended

Forms

Design  SHTabQuant  COMP 700-050-03

Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction  Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):  0100  Structures

Status

Struct.  999-455- AB  PILING- PRESTRESSED  LF

A = 1 Piling (Prestressed Concrete)
2 Test Piling (Prestressed)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

999-715- A  HURRICANE REPAIRS- LIGHTING

Unit  EA  Accuracy  Each  PlanQuantity?  no

Notes

Valid for Hurricane Repairs only.

Details

This is a special items for repair/replacement due to hurricanes.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required  Recommended

Forms

Design  SHTabQuant  COMP 700-050-03

Construction  Refer to Comp Book

Documentation

Design  Locate in plans. Summarize quantities by location on tabulation of quantities

Details and Structure: Items 900 to 999
sheet in the plans, or detail calculations in the computation book.

**Construction**
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**
PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0400 Lighting

**Status**

**Struct.** 999-715- A  HURRICANE REPAIRS- LIGHTING  EA

A= Sequential Order of Items; may be expanded upon request.
1 (Ballast) EA
2 (Lamp, HPS) EA
3 (Lamp, Mercury Vapor) EA
4 (Lamp, Metal Halide) EA

**Notes**

---

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.
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Chapter 20

Items 1000 to 1999

Utilities (JPA) use only
HOLD pending approval of the State Roadway Design Engineer. Specification and/or PPM guidance details to be determined.

This pay item for Utility JPA projects Only
Coordinate the use of this item with District Utilities Office. This item not to be used with detailed pay items for given utility. Payment covers all work and materials for specified utility.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forms</td>
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</tr>
<tr>
<td>Design</td>
<td>SHTabQuantLS</td>
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<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
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<tr>
<td>Documentation</td>
<td></td>
</tr>
<tr>
<td>Design</td>
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<tr>
<td>Construction</td>
<td>Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.</td>
</tr>
</tbody>
</table>

### References

PPM Chapter
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

### Prep & Doc Manual Chapter(s)

### TRNS*PORT Category (DRAFT FIELD):

| 0700 | Utilities |

### Status

#### Struct.

| 1000- AA- | UTILITY WORK | LS/LS |

#### Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
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<th>Obsolete Date</th>
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<td>2/29/2012</td>
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Details and Structure: Items 1000 to 1999 (JPA Utility use only)
## 1050-1A-BCD UTILITY PIPE

<table>
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<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity</th>
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</thead>
<tbody>
<tr>
<td>LF; M1</td>
<td>Linear Foot; 10th of a Meter</td>
<td>no</td>
</tr>
</tbody>
</table>

**Notes**
- This pay item for Utility JPA projects Only

**Details**
- For new pipe, payment includes anchors & incidentals, as well as connections to existing systems; detail all work in the plans or specifications. HISTORICAL PRICES vary considerably based on location, depth, installation length, specification requirements (sanitizing, leak detection) and other factors. Consult the maintaining agency for guidance on unit prices.

- For pipe up to 7.9" diameter, payment includes all fittings. Material requirements and pressure ratings must be included in the specifications. Pressure values shown next to the application are for common operating pressures, and are not included in the pay item description. (Design and Material pressure ratings are considerably higher than normal operating pressure, to allow for factor of safety.) Select the application based on the type of utility work to be completed.

- For Casings, payment includes vents/air release valves.

- For Plug/Place out of service, Specs/Details should indicate that payment includes all work & materials necessary. Plans should indicate length of pipe to be filled (payment length).

- For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

#### Forms
- **Design** Required: SHTabQuant, Recommended: COMP 700-050-03
- **Construction** Reference: Refer to Comp Book

#### Documentation
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

#### References
- **PPM Chapter**
- **Other**
- **Standards**
- **Specifications** Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

### TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

**Status**
- **Struct.** 1050-1A-BCD UTILITY PIPE LF
  - A= Operation
  - 1 (Furnish & Install)
  - 2 (Furnish)
  - 3 (Install) BC=00
  - 4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove & Dispose) BC=00, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BC=00, Note: DOT/maintaining agency retains ownership
8 (Plug & Place out of Service) BC=00 Note: Utility Retains Ownership
9 (Temporary Pipe)

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special)*

C= Application
1 (Casing/Conduit)
2 (Water/Sewer)
3 (Gas)
4 (Fuel Transmission)

D= Size or Equivalent Diameter
1 (0 - 1.9")*
2 (2.0 - 4.9")*
3 (5.0 - 7.9")*
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*Sizes up to 7.9" includes the cost of all fittings

Notes  * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<tr>
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### Utility Pipe, Temporary, PVC, Water/Sewer

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### Utility Fittings

**Unit**: EA, EA<br><br>**Accuracy**: Each<br><br>**Plan Quantity?**: No<br><br>**Notes**<br>This pay item for Utility JPA projects Only<br><br>For pipe up to 7.9" diameter, payment includes all fittings. Material requirements and pressure ratings to be included in the specifications.<br><br>For Plan Detail/Tech Spec items: The Designer should ensure that the description,
materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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<td>Forms</td>
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<td>Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.</td>
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**References**

- PPM Chapter
- Other
- Standards
- Specifications

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct.** 1055- 1A-BCD

**UTILITY FITTINGS**

EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Relocate) BCD=blank
5 (Adjust /Modify) BCD=blank
6 (Remove & Dispose) BCD=blank, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD=blank, Note: DOT/maintaining agency retains ownership
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special)*

C= Fitting Type
1 (Elbow)
2 (Tee)
3 (Reducer)
4 (Union)
5 (Cap/Plug)
6 (Y)
7 (Cleanout)
9 (Special)*

D= Size or Equivalent Diameter
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)

*Sizes up to 7.9" includes the cost of all fittings
**Notes**  
* Special may require Tech Spec and/or Plan Detail

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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### 1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND

**Unit**: EA  **Accuracy**: Each  **Plan Quantity?**: no

**Notes**
This pay item for Utility JPA projects Only
DO NOT USE for Milling adjustments; see 425 items for adjusting manholes & utility valves
For Utility Structures BELOW ground.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

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**Documentation**

| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

**PPM Chapter**

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**Other Standards**

**Specifications**

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Struct.** 1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank See detail information for milling adjustments
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership
B=Utility
### Basis of Estimates

1 (Electrical /Communications)  
2 (Water/Sewer)  
3 (Other)*  

**Notes**  
* Special/"other" may require Tech Spec and/or Plan Detail

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**Notes**  
Details: This pay item for Utility JPA projects Only  
For Utility Structures ABOVE ground.

**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
Calculate pad volume as the length x width x depth of concrete. Covers are for non-electrical applications, aesthetic or weather enclosures. Material requirements to be included in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

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<td>Other</td>
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<td>Standards</td>
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**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct. 1060- 2A- BC**

**UTILITY STRUCTURE- ABOVE GROUND**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership

B=Pad Volume
1 (0-1 YD3)
2 (1.1-3 YD3)
3 (>3 YD3)

C=Cover
0 (without cover)
1 (with cover)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.*

### 1080- 1A-BCC  
**UTILITY FIXTURES**

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**Notes**

This pay item for Utility JPA projects Only
Additional fixtures to be added as needed. Submit Request through District Estimates Office.

**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
Tabulate all items in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

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**Related Items**

**Forms**
- Design
- Construction

**Documentation**
- Design
- Construction

**References**
- PPM Chapter
- Other

**Standards**

**Specifications**

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

| 0700 | Utilities |
---|---|

**Struct.**

1080-1A-BCC

**UTILITY FIXTURES**

**EA**

A = Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate) BCC= blank
- 5 (Adjust /Modify) BCC= blank
- 6 (Remove & Dispose) Note: Contractor takes ownership, BCC= blank
- 7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership, BCC= blank
- 8
- 9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B = Size or Equivalent Diameter
- 1 (0 - 1.9")*
- 2 (2.0 - 4.9")*
- 3 (5.0 - 7.9")*
- 4 (8.0 - 19.9")
- 5 (20.0 - 49.9")
- 6 (50.0" or larger)

*NOTE: Fittings for pipe sizes up to 8" are included in the cost of the pipe. Fixtures, any size, may be paid under this item.

CC = Fixture
- 1 (Valve/Meter Box)
- 2 (Backflow Assembly)
- 3 (Tapping Saddle/Sleeve)
- 4 (Valve Assembly)
- 5 (Blowoff Assembly)
- 6 (VAC/AIR Assembly)
- 7 (Line Stop Assembly)
- 8 (Mechanical Joint Separator)
- 9 (Mechanical Joint Restraint)
10… submit request to expand structure  
Note: CC list to be expanded as needed.

## Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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### Basis of Estimates

**2009 Edition**

October 6, 2008

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### 1135- A UTILITY- GUYS AND ANCHORS- ABOVE GROUND

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**Notes**

This pay item for Utility JPA projects Only- NEW installations only.

Protection of existing structures during construction is incidental to the work being performed.

For ABOVE GROUND installations only.

**Details and Structure:** Items 1000 to 1999 (JPA Utility use only)
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
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<td><strong>Forms</strong></td>
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<td>Construction</td>
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| **Documentation** |             |
| Design | Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. |
| Construction | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

### References

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### Notes

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status** Inactive Structure

**Struct.** 1135- A UTILITY- GUYS AND ANCHORS- ABOVE GROUND EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Salvage & Store/Reuse)
5 (Adjust & Modify Or Relocate)
9 (Remove)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

### 1501- 1- UTILITY LIFT STATION, SANITARY SEWER

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**Notes**

This pay item for Utility JPA projects Only
Includes pump(s), power, internal piping, housing, and incidentals associated with the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Related Items

<table>
<thead>
<tr>
<th>Required</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Prep & Doc Manual Chapter(s)**

**Details and Structure: Items 1000 to 1999 (JPA Utility use only)**
**Construction**

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct.** 1501-1

UTILITY LIFT STATION, SANITARY SEWER EA

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>Ref</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1501</td>
<td>LIFT STATION, SANITARY SEWER</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$270,333.33</td>
</tr>
</tbody>
</table>

**1644-ABC-DEE** FIRE HYDRANT

**Notes**

**Unit** EA

**Accuracy** Each

**PlanQuantity?** no

**Details**

This pay item for Utility JPA projects Only

Items to be used for Water Main & Service Applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

**Required** SHTabQuant

**Recommended** COMP 700-050-03

**Forms**

Design

Construction

Refer to Comp Book

**Documentation**

Design

Construction

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

**Prep & Doc Manual Chapter(s)** 7, 13

---

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**

**Struct.** 1644-ABC-DEE

FIRE HYDRANT EA

A = Operation

---

Details and Structure: Items 1000 to 1999 (JPA Utility use only)
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC = 00, DEE = Blank
4 (Salvage & Store) BC = 00, DEE = Blank
5 (Salvage & Reuse) BC = 00, DEE = Blank
6 (Plug & Placed Out Of Service) BC = 00, DEE = Blank
7 (Adjust & Modify) BC = 00, DEE = Blank
8 (Relocate) BC = 00, DEE = Blank
9 (Remove) BC = 00, DEE = Blank

B = Type Of Hydrant
1 (Standard)
2 (Airport)
3 (Traffic)

C = Number Of Ways
1 (Hose)
2 (Two Hose)
3 (Two Hose, One Pumper)
4 (2 Way, Flush Type, One Hose, One Pumper)
5 (4 Way, Three Hose, One Pumper)
6 (3 Way, Two Hose, One Pumper)

D = (Open Leave Blank)

EE = Size
05 (2")
08 (6")
09 (8")

Notes
Note: Do Not Code Leading Zeros.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref</th>
<th>Price</th>
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<tbody>
<tr>
<td>1644113 05</td>
<td>FIRE HYDRANT, F&amp;I, STANDARD, 2 HOSE, 1PUMPER, 2&quot;</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
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<td>$10,000.00</td>
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<tr>
<td>1644113 08</td>
<td>FIRE HYDRANT, F&amp;I, STANDARD, 2 HOSE, 1PUMPER, 6&quot;</td>
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<td>T</td>
<td>1/1/2007</td>
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<td>1644114 08</td>
<td>FIRE HYDRANT, STANDARD, F&amp;I, 2 WAY, FLUSH TYPE, 1 HOSE, 1 PUMPER, 6&quot;</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$3,906.00</td>
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<tr>
<td>1644116 08</td>
<td>FIRE HYDRANT, STANDARD, F&amp;I, 3 WAY, 2 HOSE, 1 PUMPER, 6&quot;</td>
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<td>T</td>
<td>1/1/2007</td>
<td></td>
<td></td>
<td>$3,906.00</td>
</tr>
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<td>T</td>
<td>1/1/2007</td>
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<td>$3,270.35</td>
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<td>1644136 08</td>
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<tr>
<td>1644400</td>
<td>FIRE HYDRANT, SALVAGE &amp; STORE</td>
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<td>T</td>
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<td>1644700</td>
<td>FIRE HYDRANT, ADJUST &amp; MODIFY</td>
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<td>$1,422.23</td>
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<tr>
<td>1644800</td>
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<td>1644900</td>
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1720-ABB- UTILITY WORK- TRANSFORMER

<table>
<thead>
<tr>
<th>Unit</th>
<th>Accuracy</th>
<th>PlanQuantity?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Each</td>
<td>no</td>
</tr>
</tbody>
</table>

Details and Structure: Items 1000 to 1999 (JPA Utility use only)
This pay item for Utility JPA projects Only
Plans or Technical Specifications must detail item, materials, construction/installation requirements, as well as compensation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

### Required Recommended

**Forms**
- **Design** SHTabQuant
- **Construction** Refer to Comp Book

**Documentation**
- **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
- **Construction** Record final quantity on the tabulation sheet (plans) or computation form (comp book).

### Plan Detail and/or Tech Spec Required

**PPM Chapter**
- Design
- Construction

**Other**

**Standards**

**Specifications**

**Notes**

**Related Items**

**Struct.**

**1720-ABB-**

**UTILITY WORK- TRANSFORMER**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BB=00
8 (Relocate) BB=00
9 (Remove) BB=00

BB = Configurations
01 (25 kVA Continuous Single Phase)
02 (75 kVA Continuous Single Phase)
03 (250 kVA Continuous Single Phase)

**Notes**

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1720103</td>
<td>TRANSFORMER, F&amp;I, 250 KVA CONTINUOUS SINGLE PHASE</td>
<td>EA</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**1820- 1- AB**

**UTILITY CABLE, TELEPHONE/COMMUNICATIONS**

**Unit** LF; M1
**Accuracy** Linear Foot; 10th of a Meter

**Notes**

This pay item for Utility JPA projects Only

**Details**

**TRNS*PORT Category (DRAFT FIELD):** 0700 Utilities

**Status**
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

**Related Items**

<table>
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<tr>
<th>Required</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Forms</strong></td>
<td><strong>Design</strong></td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

**Documentation**

| Design | **Construction** | Record final quantity on the tabulation sheet (plans) or computation form (comp book). |

**References**

| PPM Chapter |
| Other |
| Standards |
| Specifications |

**Plan Detail and/or Tech Spec Required**

**Prep & Doc Manual Chapter(s)**

---

**TRNS*PORT Category (DRAFT FIELD):**

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0700 Utilities</td>
</tr>
</tbody>
</table>

**Struct.**

| 1820- 1- AB | UTILITY CABLE, TELEPHONE/COMMUNICATIONS | LF |

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)*
4 (Relocate)*
5 (Adjust /Modify)*
6 (Remove & Dispose)* Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership
8 (Place out of Service)*
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0

B= # of pairs
1 (up to 10 pair)
2 (11-50 pair)
3 (50-100 pair)
4 (greater than 100 pair)

---

**The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.**

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<tr>
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<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1820 1 60</td>
<td>UTILITY CABLE, TELEPHONE/COMMUNICATIONS, REMOVE AND DISPOSE, CONTRACTOR TAKES OWNERSHIP</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$3.27</td>
</tr>
</tbody>
</table>

---

**1820- 2- AB**

| UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS |

**Unit** LF; M1
**Accuracy** Linear Foot; 10th of a Meter
**PlanQuantity?** no

---

**Notes**

**Details and Structure: Items 1000 to 1999 (JPA Utility use only)**
Details

This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

<table>
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<tr>
<th>Required</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>SHTabQuant</td>
</tr>
<tr>
<td>Construction</td>
<td>Refer to Comp Book</td>
</tr>
</tbody>
</table>

Documentation

<table>
<thead>
<tr>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
</tr>
</tbody>
</table>

Notes

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. 1820-2-AB UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>TSP/Detail</th>
<th>Valid Date</th>
<th>Obsolete Date</th>
<th>LRE Ref Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1820 2 60</td>
<td>UTILITY FIBER OPTIC, TELEPHONE COMMUNICATIONS, REMOVE &amp; DISPOSE, CONTRACTOR TAKES OWNERSHIP</td>
<td>LF</td>
<td>T</td>
<td>1/1/2007</td>
<td></td>
<td>$1.21</td>
</tr>
</tbody>
</table>
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Chapter 21

Master Pay Item List

Note date on report.
Designers should use current (online) report for latest information
Items added upon request. See Chapter 6 for details.
Appendices
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