

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
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Flex your power!
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April 30, 2010

SBd-62-7.6/8.5
08-0K8804
ACHSNHG-P062(027)E

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SAN BERNARDINO COUNTY IN AND NEAR YUCCA VALLEY FROM YUCCA PARK ROAD TO SHAFTNER AVENUE.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Thursday, May 6, 2010.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions and the Bid book.

Project Plan Sheets 5, 6 and 22 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheet 29A is added. A copy of the added sheet is attached for addition to the project plans.

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," is revised as follows:

"Complete the work within 30 working days starting on the 30th day after contract approval or on the day you start work at the job site, which ever occurs first."

In the Special Provisions, Section 10, "CONSTRUCTION DETAILS," subsection 10-1.23, "SLOTTED CORRUGATED STEEL PIPE," is deleted.

In the Special Provisions, Section 10, "CONSTRUCTION DETAILS," subsection 10-1.225, "ALTERNATIVE SLOTTED PIPE," is added as attached.

In the Special Provisions, Section 10, "CONSTRUCTION DETAILS," subsection 10-1.226, "SLOTTED PLASTIC PIPE," is added as attached.

In the Special Provisions, Section 10, "CONSTRUCTION DETAILS," subsection 10-1.235, "SLOTTED CORRUGATED STEEL PIPE," is added as attached.

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In the Bid book, Item 32 is added and Item 20 is deleted as attached.

To Bid book holders:

Replace the entire "Bid Item List" in the Bid book with the attached revised Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/08/08-0K8804

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

RAYMOND W. WOLFE
District Director

Attachments

10-1.225 ALTERNATIVE SLOTTED PIPE

This work shall consist of furnishing and installing alternative slotted pipe as shown on the plans.

Plastic or Corrugated steel pipe may be used for each nominal size of alternative slotted pipe. Select the slotted pipe to be installed from the allowable kinds.

MEASUREMENT AND PAYMENT

The length of alternative slotted pipe to be paid will be the slope length measured along the centerline of the pipe as designated by the Engineer. Alternative slotted pipe cut to fit a structure will be the length of pipe necessary to be placed before cutting, measured in 2-foot increments. Alternative slotted pipe placed in excess of the length designated will not be paid for.

The contract price paid per foot for the different sizes or sizes and types of alternative slotted pipe includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all of the work involved in installing the alternative slotted pipe, complete in place, including structure excavation, concrete backfill, connecting alternative slotted pipe to new or existing facilities, including concrete collars, reinforcement, or other connecting devices, as specified herein, as shown on the plans, and as directed by the Engineer.

10-1.226 SLOTTED PLASTIC PIPE

GENERAL

Summary

Slotted plastic pipe must comply with Section 64, "Plastic Pipe," of the Standard Specifications and these special provisions.

SUBMITTALS

Furnish a Certificate of Compliance for the slotted plastic pipe under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications. The certificate must also certify that the slotted plastic pipe complies with the requirements of the specifications, and shall include the resin material Cell Classification and date of manufacture.

MATERIALS

Slotted Plastic Pipe

The interior surface of slotted plastic must be smooth except for vertical and top wall locations for stiffening ridges. Slotted plastic pipe must be made of polyethylene.

Slotted plastic pipe must be manufactured from polyethylene consisting of a composition of virgin polyethylene resin, carbon black, and must have the following properties:

Property	ASTM Test Designation	Requirement
Resin Properties		
Density (g/cm ³)	D 1505	0.934 - 0.935
Melt Index (g/10 min)	D 1238	5 - 10
Performance Properties		
Flexural Modulus (psi)	D 790	80,000 (min.)
Tensile Strength @ yield, (psi)	D 638	2,400 (min.)
Environmental Stress Crack Resistance	D 1693	Test condition B, Duration 24 hr., 45% failure (max.)
Hydrostatic Design Basis	D 2837	Not Pressure Rated
Color & Ultraviolet Stabilizer		C ^a

Note: ^aResin shall contain not less than 2 +/- 0.5 percent carbon black ultraviolet stabilizer.

Slotted plastic pipe must have a minimum wall thickness of 0.23 inches. At intervals not greater than 10 inches on center, vertical and top slope walls, excluding the slot, must be shaped so external ridges of at least 3/8 inch in depth and 1-3/8 inch wide are created when the plastic pipe is manufactured. These ridges must provide wall stiffness so the pipe will not deflect more than 1/16 inch maximum when concrete backfill is placed against the pipe walls.

End caps must be manufactured to the same materials requirements as the plastic slotted pipe. End caps and plastic slotted pipe must be from the same manufacturer. End caps must prevent concrete backfill from entering the pipe.

Slotted plastic pipe must have tongue-and-groove interlocking ends and clips molded into the sides of the channel to accommodate vertical reinforcing bar for positioning and anchoring purposes. Slot must be a minimum of 1-3/4 inches wide and have hollow throat stiffeners at 5-inch maximum intervals to keep sides of the slot apart.

Concrete Backfill

Concrete backfill for the slotted plastic pipe shall be minor concrete as specified in Section 90, "Portland Cement Concrete," of the Standard Specifications, except that minor concrete shall contain not less than 505 pounds of cementitious material per cubic yard.

Bar Reinforcement

Bar reinforcement must comply with ASTM A 615/A 615M, Grade 60 or A706, Grade 60.

Miscellaneous Metal

Ductile iron, nuts, bolts, and washers must comply with Section 75, "Miscellaneous Metal," of the Standard Specifications.

Grout

Grout must be non-shrink and comply with ASTM C 1107.

CONSTRUCTION

Excavation must comply with Section 19-3, "Structure Excavation and Backfill," of the Standard Specifications.

Where shown on the plans, place a lateral support bar reinforcement on both sides of the grate slot. This support bar reinforcement shall run the full length of the grate slot.

Texture concrete surface with a broom or burlap drag to produce a durable skid-resistant surface.

After placement of concrete backfill, apply non-pigmented curing compound to the exposed concrete backfill surface. Non-pigmented curing compound must comply with ASTM C 309 Type 1, Class B.

Slotted Plastic pipe

Lay and join slotted plastic pipe in accordance with the manufacturer's recommendations.

Slotted plastic pipe must be laid to line and grade with the sections closely jointed and shall be adequately secured to ensure that no separation occurs during placement of backfill. Nuts, bolts and washers must be used to secure the sections together prior to backfilling if the plastic pipe does not have a positive interlocking mechanism like slot and tongue connection.

The top of the slotted plastic pipe must not extend above the level of the finished surface and be positioned so finished minor concrete backfill will be flush with surrounding grade and be a minimum of 1/8-inch and a maximum of 1/4-inch (drop off) above the top of the slotted plastic pipe.

Channels must be placed with the male and female ends facing each other.

Pave adjacent traffic lanes before installation of slotted plastic pipe.

The slotted plastic pipe slot must be covered with a heavy-duty tape or other approved covering during backfill and paving operations to prevent infiltration of material into the slotted plastic.

A transition fitting shall be used to connect to the drainage inlet. The manufacturer of the slotted plastic pipe must supply the transition fitting. After the grout used to seal the transition fitting to the drainage inlet wall has cured a minimum of 24 hours, the portion of the pipe extending into the inlet box shall be cut 1 inch from inside wall face as shown on the plans.

When plastic slotted pipe connects to an existing drainage structure, the gap around the pipe in the structure wall must be filled with a non-shrink grout. Install grout per the manufacturer's instructions.

Slotted plastic pipe must be welded at joints as shown on the plans. Welds must be with a commercial electric welding tool per the pipe manufacturer's instructions. Welds must be constructed so that no visible pinholes are apparent. Welds with pinholes will be cause for rejection of the transition piece. All rejected material must not be re-used, but disposed off the project at the Contractor's expense under Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

10-1.235 SLOTTED CORRUGATED STEEL PIPE

Slotted corrugated steel pipe must comply with Section 66-3.09, "Slotted Pipe," of the Standard Specifications and these special provisions.

MATERIALS**Concrete Backfill**

Where plans show cement treated structure backfill use minor concrete for backfill or Class 3 concrete conforming to the provisions of Section 90, "Portland Cement Concrete," of the Standard Specifications, except that minor concrete shall contain not less than 525 pounds of cementitious material per cubic yard.

CONSTRUCTION

Excavation must comply with Section 19-3, "Structure Excavation and Backfill," of the Standard Specifications.

**BID ITEM LIST
08-0K8804**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070013	SMALL BUSINESS UTILIZATION REPORT	EA	1	250.00	250.00
2	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
3	074017	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	
4	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
5	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
6	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
7	120199	TRAFFIC PLASTIC DRUM	EA	240		
8	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2		
9	150662	REMOVE METAL BEAM GUARD RAILING	LF	100		
10	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	1,090		
11	150722	REMOVE PAVEMENT MARKER	EA	71		
12	018698	RECONSTRUCT SURVEY MONUMENT	EA	10		
13	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
14	260201	CLASS 2 AGGREGATE BASE	CY	130		
15	390132	HOT MIX ASPHALT (TYPE A)	TON	140		
16	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	3.8		
17	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	67		
18	566011	ROADSIDE SIGN - ONE POST	EA	6		
19	665017	18" CORRUGATED STEEL PIPE (.079" THICK)	LF	160		
20	BLANK					

**BID ITEM LIST
08-0K8804**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	705011	18" STEEL FLARED END SECTION	EA	3		
22	750001	MISCELLANEOUS IRON AND STEEL	LB	790		
23	820134	OBJECT MARKER (TYPE P)	EA	2		
24	832002	METAL BEAM GUARD RAILING (STEEL POST)	LF	950		
25	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	1		
26	018699	SMART CUSHION (SCI-100GM)	EA	2		
27	839701	CONCRETE BARRIER (TYPE 60)	LF	300		
28	839706	CONCRETE BARRIER (TYPE 60G)	LF	4,360		
29	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	50		
30	840560	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	LF	1,640		
31	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	43		
32	620715	18" ALTERNATIVE SLOTTED PIPE	LF	1,600		

TOTAL BID: _____