

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

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*Flex your power!  
Be energy efficient!*

September 28, 2012

07-LA-5-29.4/31.6

07-1218W4

Project ID 0700021119

ACIM-005-3(078)N

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN LOS ANGELES COUNTY IN BURBANK FROM WEST MAGNOLIA BOULEVARD OVERCROSSING TO 0.3 MILE NORTH OF BUENA VISTA STREET/WINONA AVENUE UNDERCROSSING.

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, October 4, 2012.

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

Project Plan Sheets 278M, 285, 286, 287, 356, 370, 372, 373, 379, 992, 1036, 1061, 1072, 1073, 1127, 1354, 1355 and 1606 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheet 179A is added. A copy of the added sheet is attached for addition to the project plans.

In the Special Provisions, Section 5-1.14 "PAYMENT," the following items are added after item TT:

"UU. Signal and lightning standards  
VV. Signal heads and Mounting brackets"

In the Special Provisions, Section 8-1.02, "STATE-FURNISHED MATERIALS," item 4 of the second paragraph is revised as follows:

"4. (3) 6 foot x 6 foot Prewired House for Intermediate Single Track. Batteries included. 6 foot x 6 foot Prewired House for Intermediate Double Track. Batteries are included. M-23A Switch Machine and #24 LH Layout."

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

In the Special Provisions, Section 10-1.45, "LIGHTWEIGHT FILL (EPS GEOFOAM BLOCK)," subsection "MATERIALS," the table in the second paragraph is revised as follows:

"Property	Test	Value
Density, lb/cubic ft min	ASTM C 303	1.5
Density, lb/cubic ft max	ASTM C 303	2.4
Compressive Strength, at 1% deformation, psi min	ASTM D 1621	10.0
Flexural Strength, psi min	ASTM C 203	43.5
Tensile Strength, psi min	ASTM D 1623	20.0
Water Absorption by volume percent max	ASTM C 272	2.0"

In the Special Provisions, Section 10-1.45, "LIGHTWEIGHT FILL (EPS GEOFOAM BLOCK)," subsection "MATERIALS," the table in the third paragraph is revised as follows:

"Property	Test	Value <sup>1</sup>
Unleaded Gasoline Permeability, ounce per square foot max per 24 hours	ASTM D 814	0.4
Thickness, mils min	ASTM D 751 <sup>2</sup>	28
Grab Tensile Strength (1" grip, 4" x 8" sample), pound min each direction	ASTM D 751 <sup>2</sup>	600
Tensile Strength, psi min	ASTM D 1623	20
Elongation at break, percent min	ASTM D 4632 <sup>2</sup>	20
Toughness (Percent elongation by Grab Tensile Strength), pound min	N/A	14,000
Puncture Resistance (ball tip), pound min	ASTM D 751 <sup>3</sup>	800
Cold Crack Resistance (1" mandrel, 4 hours)	ASTM D 2136 <sup>2</sup>	Pass at -30°F
Factory Produced Seams, Bonded Width, inches min	ASTM D 751 <sup>4</sup>	1.25
Factory Produced Seams, Shear Strength, pound per foot min	ASTM D 751 <sup>4</sup>	320
Field Produced Seams, Vapor Tight Seal	ASTM D 5641	Pass
<sup>1</sup> Specified as Minimum or Maximum, not average roll properties. <sup>2</sup> Or ASTM test method appropriate for specific polymer. <sup>3</sup> Or FTMS 101C, Method 2065. <sup>4</sup> Modified per NSF Standard No. 54."		

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

In the Special Provisions, Section 10-1.45, "LIGHTWEIGHT FILL (EPS GEOFOAM BLOCK)," subsection "CONSTRUCTION," the third and the ninth paragraphs are deleted.

In the Special Provisions, Section 10-1.107, "DUCTILE-IRON PIPE AND FITTINGS," subsection "MATERIALS," sub-subsection "Lining For Pipe and Fittings," is revised as follows:

**"Lining For Pipe and Fittings**

The interior of all pipe and fittings shall be lined with epoxy lined (Protecto 401 Ceramic Epoxy Lining).

**Ceramic Epoxy Lining (Protecto 401)**

Lining material for ductile iron pipe and fittings shall be Protecto 401 ceramic epoxy lining. The material shall be a high build multi-component ceramic quartz filled amine cured novalac epoxy lining. The lining shall be applied at a nominal 40 mils thickness. Upon completion of the lining process, each pipe shall pass a 2500 volt holiday detection test. In addition, a thickness test shall be performed to insure a sound chemically resistant protective lining for the ductile iron pipe and fittings.

All ductile iron pipe and fittings shall have a bituminous coating on the exterior except for 6-inches of the exterior of the spigot ends. The bituminous coating shall not be applied to the first 6 inches of the exterior of the spigot ends. All ductile iron pipe and fittings shall be delivered to the application facility without asphalt, cement lining, or any other lining on the interior surface. Because removal of old linings may not be possible, the intent of this specification is that the entire interior of the ductile iron pipe and fittings shall not have been lined with any substance prior to the application of the specified lining.

The material used for lining the pipe and fittings shall be Protecto 401 Ceramic Epoxy, a high build multi-component amine cured novalac epoxy lining.

The lining shall be applied by a competent firm with a successful history of applying linings to the interior of ductile iron pipe and fittings.

Surface Preparation: Prior to abrasive blasting, the entire area which will receive the protective compound shall be inspected for oil, grease, etc. Any areas where oil, grease, or any substance which can be removed by solvent is present shall be solvent cleaned using the guidelines outlined in SSPC-1 Solvent Cleaning. After the surface has been made free of grease, oil or other substances, all areas to receive the protective compounds shall be abrasive blasted using compressed air nozzles with sand or grit abrasive media. The entire surface to be lined shall be struck with the blast media so that all rust, loose oxides, etc., are removed from the surface. Only slight stains and tightly adhering annealing oxide may be left on the surface. Any area where rust appears before coating must be re-blasted to remove all rust.

Lining: After the surface preparation and within 8 hours of surface preparation, the interior pipe shall receive 40 mils dry film thickness of the protective lining. No lining shall take place when the substrate or ambient temperature is below 40 degrees Fahrenheit. The surface also must be dry and dust free. If flange fittings of pipe are included in the project, the linings must not be used on the face of the flange; however, full face gaskets must be used to protect the ends of the pipe. All fittings shall be lined with 40 mils of the protective lining. The 40 mils system shall not be applied in the gasket grooves.

Coating of Gasket and Spigot Ends: Due to the tolerances involved, the gasket area and spigot end up to 6 inches back from the end of the spigot end must be coated with 6 mils nominal, 10 mils maximum of Protecto Joint Compound. This coating shall be applied by brush to ensure coverage. Care should be taken that the coating is smooth without excess buildup in the gasket groove or on the spigot end. All materials for the gasket groove and spigot end shall be applied after the application of the lining.

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

**Number of Coats:** The number of coats of lining material applied shall be as recommended by the lining manufacturer. However, in no case shall this material be applied above the dry thickness per coat recommended by the lining manufacturer in printed literature. The time between coats shall never exceed that time recommended by the lining material manufacturer. No material shall be used for lining which is not indefinitely recoatable with itself without roughening of the surface.

**Touch-up & Repair:** Protecto Joint Compound shall be used for touch-up or repair. Procedures shall be in accordance with manufacturer's recommendations.

**Inspection:** All ductile iron pipe and fitting linings shall be checked for thickness using a magnetic film thickness gauge. The thickness testing shall be done using the method outlined in SSPC-PA-2 Film Thickness Rating. The interior lining of all pipe and fittings shall be tested for pinholes with a nondestructive 2,500 volt test. Each pipe joint and fitting shall be marked with the date of application of the lining system and with its numerical sequence of application on that date.

**Certification:** The pipe or fitting manufacturer shall supply a certificate to the fact that the applicator met the requirements of this specification, and that the material used was as specified, and that the material was applied as required by this specification.

**Procedures for sealing cut ends and repairing field damaged areas:** Remove burrs caused by field cutting of ends or handling damage and smooth out the edge of the lining if rough. Remove all traces of oil, grease, asphalt, dust, dirt, etc. Remove any damaged lining caused by field cutting operations or handling and clean any exposed metal by sanding or scraping. Sandblasting or power tool cleaning roughening is also acceptable. It is recommended that any loose lining be removed by chiseling, cutting, or scraping into well adhered lined area before patching. Be sure to overlap at least 1-inch over the lining in the area to be repaired.

With the area to be sealed or repaired, absolutely clean and suitably roughened, apply a coat of Protecto Joint Compound using the following procedure: Mixing Procedure-Protecto Joint Compound is a 7 to 1 (7:1) mix ratio. When mixed, it should contain 7 parts of the black activator and one part of the translucent blending resin. This can be accomplished by simply using the same container to dip out seven containers full from the large can and pouring one container full from the small can which contains the blending resin. This is the simplest and most accurate means for field mixing less than the kit provided. After the blending resin is added to the activator, the mixture should be thoroughly agitated. All activated material must be used within 45 minutes of mixing.

**Application of Material –** After the material has been thoroughly mixed in a seven-to-one (7:1) ratio, it can be applied to the prepared surface by brush. Brushing is usually best, due to the fact that the areas are usually small. Practices conducive to a good coating are contained in the technical data sheet for Protecto Joint Compound. It is important to coat the entire freshly cut exposed metal surface of the cut pipe end. To ensure proper sealing, overlap at least, one inch of the lining with this repair material."

In the Special Provisions, Section 10-1.115, "HYDRODYNAMIC SEPARATOR," subsection "MATERIALS," sub-subsection "General," is revised as follows:

"The separator should be equipped with an internal high flow bypass that regulates the flow rate into the treatment chamber and conveys high flows directly to the outlet so the scour and re-suspension of material previously collected in the separator does not occur. External bypasses are not acceptable. The bypass area must be physically separated from the separation area to prevent mixing with the separator. The concrete separator is designed and manufactured in accordance with ASTM C-478. The concrete joints shall be watertight and shall have oil resistant gaskets and shall be in accordance with ASTM C-443. A minimum of 12 inches of oil storage should be lined with fiberglass to provide secondary containment of any hydrocarbon materials.

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

The difference between the separator inlet pipe elevation and the separator outlet pipe elevation must be 1 inch.

The separator must capture spills including free oil and must not be compromised by temporary backwater conditions (i.e, trapped pollutants must not be re-suspended and scoured from the separator during backwater conditions). The non-scouring capabilities of the selected separator must be documented.

Concrete for the hydrodynamic separator shall conform to the Standard Specifications."

In the Special Provisions, Section 12-15.01, "DRAINAGE PUMPING EQUIPMENT," subsection "MATERIALS," sub-subsection "Lining For Pipe and Fittings," is revised as follows:

**"Lining For Pipe and Fittings**

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Surface Preparation: Prior to abrasive blasting, the entire area which will receive the protective compound shall be inspected for oil, grease, etc. Any areas where oil, grease, or any substance which can be removed by solvent is present shall be solvent cleaned using the guidelines outlined in SSPC-1 Solvent Cleaning. After the surface has been made free of grease, oil or other substances, all areas to receive the protective compounds shall be abrasive blasted using compressed air nozzles with sand or grit abrasive media. The entire surface to be lined shall be struck with the blast media so that all rust, loose oxides, etc., are removed from the surface. Only slight stains and tightly adhering annealing oxide may be left on the surface. Any area where rust appears before coating must be re-blasted to remove all rust.

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Coating of Gasket and Spigot Ends: Due to the tolerances involved, the gasket area and spigot end up to 6 inches back from the end of the spigot end must be coated with 6 mils nominal, 10 mils maximum of Protecto Joint Compound. This coating shall be applied by brush to ensure coverage. Care should be taken that the coating is smooth without excess buildup in the gasket groove or on the spigot end. All materials for the gasket groove and spigot end shall be applied after the application of the lining.

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

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**Inspection:** All ductile iron pipe and fitting linings shall be checked for thickness using a magnetic film thickness gauge. The thickness testing shall be done using the method outlined in SSPC-PA-2 Film Thickness Rating. The interior lining of all pipe and fittings shall be tested for pinholes with a nondestructive 2,500 volt test. Each pipe joint and fitting shall be marked with the date of application of the lining system and with its numerical sequence of application on that date.

**Certification:** The pipe or fitting manufacturer shall supply a certificate to the fact that the applicator met the requirements of this specification, and that the material used was as specified, and that the material was applied as required by this specification.

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In the Special Provisions, Section 13-4.01, "TRACKWORK," the first sentence of the third paragraph is revised as follows:

"The Contractor shall furnish all material necessary for SCRRA to construct the shoofly track between the 13-foot clear point and the connection to the main track at each end of the shoofly."

In the Special Provisions, Section 14-1.02, "BALLAST," subsection "PAYMENT," the first paragraph is revised as follows:

"The contract price paid per cubic yard for ballast includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all work involved in ballast, as shown on the plans, as specified in these special provisions, and as directed by the Engineer. The contract price paid for ballast also applies to the Contractor designed elements as shown on the plans as "Geotechnical Reinforced Ballast Embankment and Geotextile Reinforced Slope."

07-LA-5-29.4/31.6  
07-1218W4  
Project ID 0700021119  
ACIM-005-3(078)N

In the Special Provisions, Section 14-1.21, "TRACKWORK," subsection "MEASUREMENT AND PAYMENT," the sixth, seventh and sixteenth paragraphs are deleted.

In the Special Provisions, Section 14-1.26, "TRACK SHIFTING, RELOCATION, AND RESURFACING," subsection "MEASUREMENT AND PAYMENT," the second paragraph is revised as follows:

"Full compensation for conforming to the requirements of this section is considered as included in the contract price paid per track foot for running rail, by the unit for concrete and wood ties, linear foot for construct concrete grade crossing panels, lump sum for cutover track from mainline to shoofly and reverse, track foot for install ballasted track, lump sum for construct ballasted turn out and no separate payment will be made therefor."

In the Bid book, in the "Bid Item List," Items 3, 27, 29, 31, 32, 33, 40, 41, 42, 44, 166, 197, 203, 323 and 326 are revised as attached.

To Bid book holders:

Replace pages 3, 4, 5, 11, 12, 13, and 19 of the "Bid Item List" in the Bid book with the attached revised pages 3, 4, 5, 11, 12, 13, and 19 of the 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/07/07-1218W4](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/07/07-1218W4)

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,



REBECCA D. HARNAGEL  
Chief, Office of Plans, Specifications & Estimates  
Office Engineer  
Division of Engineering Services

Attachments

**BID ITEM LIST**  
**07-1218W4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	024076	CONTRACTOR-FURNISHED RESIDENT ENGINEER'S OFFICE	LS	LUMP SUM	LUMP SUM	
3	071321	TEMPORARY FENCE (TYPE CL-6)	LF	5,200		
4	024077	TEMPORARY DRAINAGE SAN FERNANDO AVENUE EXCAVATION	LS	LUMP SUM	LUMP SUM	
5	074016	CONSTRUCTION SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	
6	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
7	074026	TEMPORARY MULCH	SQYD	11,400		
8	074027	TEMPORARY EROSION CONTROL BLANKET	SQYD	3,000		
9	074028	TEMPORARY FIBER ROLL	LF	13,500		
10	074029	TEMPORARY SILT FENCE	LF	9,800		
11	074031	TEMPORARY GRAVEL BAG BERM	LF	22,500		
12	074033	TEMPORARY CONSTRUCTION ENTRANCE	EA	30		
13	074034	TEMPORARY COVER	SQYD	5,000		
14	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	24		
15	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	200		
16	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
17	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
18	074051	TEMPORARY HYDRAULIC MULCH	SQYD	4,700		
19	074053	TEMPORARY HYDROSEED	SQYD	8,000		
20	074055	TEMPORARY SOIL BINDER	SQYD	46,000		

**BID ITEM LIST**  
**07-1218W4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	074056	RAIN EVENT ACTION PLAN	EA	82	500.00	41,000.00
22	074057	STORM WATER ANNUAL REPORT	EA	4	2,000.00	8,000.00
23	074058	STORM WATER SAMPLING AND ANALYSIS DAY	EA	52		
24	090100	TIME-RELATED OVERHEAD (WDAY)	WDAY	900		
25	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
26	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
27	120120	TYPE III BARRICADE	EA	60		
28	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	112,000		
29	120165	CHANNELIZER (SURFACE MOUNTED)	EA	750		
30	128601	TEMPORARY SIGNAL SYSTEM	LS	LUMP SUM	LUMP SUM	
31	129000	TEMPORARY RAILING (TYPE K)	LF	139,200		
32	129100	TEMPORARY CRASH CUSHION MODULE	EA	840		
33	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	57,600		
34	148005	NOISE MONITORING	LS	LUMP SUM	LUMP SUM	
35	150305	OBLITERATE SURFACING	SQYD	26,700		
36	150608	REMOVE CHAIN LINK FENCE	LF	33,900		
37	150662	REMOVE METAL BEAM GUARD RAILING	LF	4,360		
38	150676	REMOVE CABLE RAILING	LF	1,680		
39	024078	REMOVE HANDRAIL	LF	260		
40	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	404,300		

**BID ITEM LIST****07-1218W4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	150712	REMOVE PAINTED PAVEMENT MARKING	SQFT	1,630		
42	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	65,100		
43	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	1,950		
44	150722	REMOVE PAVEMENT MARKER	EA	23,600		
45	150742	REMOVE ROADSIDE SIGN	EA	316		
46	150757	REMOVE SIGN STRUCTURE (EA)	EA	12		
47	024079	REMOVE SLOTTED CORRUGATED STEEL PIPE	LF	1,290		
48	150812	REMOVE PIPE (LF)	LF	750		
49	150820	REMOVE INLET	EA	16		
50	150821	REMOVE HEADWALL	EA	2		
51	150833	REMOVE RETAINING WALL (LF)	LF	3,740		
52	150853	REMOVE CONCRETE PAVEMENT (SQYD)	SQYD	92,900		
53	024080	REPLACE UNDERLYING BASE	CY	400		
54	024081	REMOVE EXISTING TRACK, TIES AND BALLAST AND INSTALL BUMPING POST	TF	27,600		
55	024082	REMOVE GRADE CROSSING (SHOOFLY AND MAINLINE)	TF	370		
56	024083	SALVAGE TURN-OUT	EA	1		
57	152390	RELOCATE ROADSIDE SIGN	EA	5		
58	152430	ADJUST INLET	EA	6		
59	152604	MODIFY INLET	EA	1		
60	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	2,700		

**BID ITEM LIST****07-1218W4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
161	490780	FURNISH PILING (CLASS 200)	LF	7,380		
162	490781	DRIVE PILE (CLASS 200)	EA	156		
163	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
164 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	5,226		
165 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	20,082		
166 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	27,231		
167 (F)	510072	STRUCTURAL CONCRETE, BARRIER SLAB	CY	1,181		
168 (F)	510080	STRUCTURAL CONCRETE, APPROACH SLAB (RAILROAD)	CY	114		
169 (F)	510085	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ)	CY	290		
170 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	625		
171 (F)	510087	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	CY	303		
172 (F)	510088	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N MODIFIED)	CY	750		
173 (F)	510091	STRUCTURAL CONCRETE (AUSTIN VAULT)	CY	583		
174 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	338		
175	510800	PAVING NOTCH EXTENSION	CF	225		
176 (F)	511035	ARCHITECTURAL TREATMENT	SQFT	356,866		
177	511106	DRILL AND BOND DOWEL	LF	1,608		
178	512354	FURNISH PRECAST PRESTRESSED CONCRETE SLAB (TYPE SIV)	SQFT	65,800		
179	024106	PRECAST CONCRETE FASCIA	SQFT	7,230		
180	024787	EARTH RETAINING STRUCTURE (MSE WALL)	SQFT	196,233		

**BID ITEM LIST**  
**07-1218W4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181 (F)	512510	ERECT PRECAST PRESTRESSED CONCRETE DECK UNIT	EA	206		
182	024107	GRADE CROSSING PANELS	LF	230		
183	024109	CUTOVER TRACK FROM MAINLINE TO SHOOFLY AND REVERSE	LS	LUMP SUM	LUMP SUM	
184	515020	REFINISH BRIDGE DECK	SQFT	1,279		
185	515041	FURNISH POLYESTER CONCRETE OVERLAY	CF	5,483		
186 (F)	515042	PLACE POLYESTER CONCRETE OVERLAY	SQFT	65,800		
187 (F)	518002	SOUND WALL (MASONRY BLOCK)	SQFT	93,101		
188	519081	JOINT SEAL (MR 1/2")	LF	5,410		
189	519091	JOINT SEAL (MR 1 1/2")	LF	203		
190	519100	JOINT SEAL (MR 2")	LF	1,248		
191 (F)	520102	BAR REINFORCING STEEL (BRIDGE)	LB	7,351,259		
192 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	3,389,818		
193 (F)	520104	BAR REINFORCING STEEL (AUSTIN VAULT)	LB	137,540		
194	024111	BALLASTED TRACK	TF	31,000		
195	024112	BALLASTED TURN-OUT	LS	LUMP SUM	LUMP SUM	
196	024113	WOOD TIES	EA	6,700		
197	024114	CONCRETE TIES	EA	10,900		
198	024115	RUNNING RAIL	TF	31,100		
199	024116	BALLAST	CY	13,200		
200 (F)	540101	ASPHALT MEMBRANE WATERPROOFING	SQFT	926		

## BID ITEM LIST

07-1218W4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201 (F)	540104	WATERPROOFING AND COVER	SQFT	14,740		
202	043929	PUBLIC SAFETY PLAN	LS	LUMP SUM	LUMP SUM	
203 (F)	550110	COLUMN CASING	LB	67,800		
204 (F)	550203	FURNISH STRUCTURAL STEEL (BRIDGE)	LB	3,383,684		
205 (F)	550204	ERECT STRUCTURAL STEEL (BRIDGE)	LB	3,383,684		
206	024117	INSTALL BRIDGE MOUNTED VERTICAL CLEARANCE SIGN	EA	4		
207	560203	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	LB	6,940		
208	560204	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITH WALKWAY)	LB	6,940		
209	560208	FURNISH SIGN STRUCTURE (TUBULAR)	LB	11,800		
210	560209	INSTALL SIGN STRUCTURE (TUBULAR)	LB	11,800		
211	560213	FURNISH SIGN STRUCTURE (LIGHTWEIGHT)	LB	21,400		
212	560214	INSTALL SIGN STRUCTURE (LIGHTWEIGHT)	LB	21,400		
213	560218	FURNISH SIGN STRUCTURE (TRUSS)	LB	278,000		
214	560219	INSTALL SIGN STRUCTURE (TRUSS)	LB	278,000		
215	560233	FURNISH FORMED PANEL SIGN (OVERHEAD)	SQFT	3,620		
216	560244	FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	SQFT	640		
217	560245	FURNISH LAMINATED PANEL SIGN (1"-TYPE B)	SQFT	280		
218	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	1,660		
219	560249	FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	990		
220	560251	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	SQFT	180		

## BID ITEM LIST

07-1218W4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
321	840526	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	LF	22,100		
322	840550	8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	LF	4,260		
323	840656	PAINT TRAFFIC STRIPE (2-COAT)	LF	777,000		
324	840666	PAINT PAVEMENT MARKING (2-COAT)	SQFT	2,230		
325	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	9,550		
326	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	24,810		
327	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
328	024152	FURNISH AND INSTALL TRAFFIC SIGNAL SYSTEM COMPLETE	LS	LUMP SUM	LUMP SUM	
329	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	
330	860252	SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM	LUMP SUM	
331	860400	LIGHTING (TEMPORARY)	LS	LUMP SUM	LUMP SUM	
332	860402	LIGHTING (CITY STREET)	LS	LUMP SUM	LUMP SUM	
333	024153	RAILROAD LIGHTING	EA	16		
334	860705	INTERCONNECTION CONDUIT AND CABLE (LS)	LS	LUMP SUM	LUMP SUM	
335	860775	SPRINKLER CONTROL CONDUIT (BRIDGE) (LS)	LS	LUMP SUM	LUMP SUM	
336	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
337	024154	MICROWAVE VEHICLE DETECTION SYSTEM (TEMPORARY)	LS	LUMP SUM	LUMP SUM	
338	024155	MODIFY COMMUNICATION SYSTEM	LS	LUMP SUM	LUMP SUM	
339	861088	MODIFY RAMP METERING SYSTEM	LS	LUMP SUM	LUMP SUM	
340	861497	MODIFY SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	