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**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
OFFICE ENGINEER  
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P.O. BOX 168041  
SACRAMENTO, CA 95816-8041  
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TTY 711

October 3, 2012

08-Riv,SBd-91,215-21.5/21.7, 43.2/45.2, 0.0/5.1  
08-0M94U4  
Project ID 0800000506  
ACNH-000C(355)E  
CMSTPLN-6208(018)

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN RIVERSIDE AND SAN BERNARDINO COUNTIES ON ROUTE 91 FROM SPRUCE STREET TO 60/91/215 SEPARATION AND ON ROUTE 215 FROM 60/91/215 SEPARATION TO ORANGE SHOW ROAD.

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 11, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, the Bid book, and the Federal Minimum Wage with Modification Number 10 dated 09/14/2012.

Project Plan Sheets 634, 641, 643, 719, 726, 802, 830, 980, 1390, 1391, 1392, 1393, 1395, 1400, 1405, 1418, 1419, 1420, 1421, 1423, 1424, 1427, 1428, 1533, 1637 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 634A, 641A and 643A are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders, the fifteenth paragraph is revised as follows:

"The estimated cost of the project is \$135,000,000."

In the Special Provisions, Section 5-1.20, "NONHIGHWAY FACILITIES (INCLUDING UTILITIES)," is revised as attached.

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In the Special Provisions, Section 10-1.01, "ORDER OF WORK," the following paragraph is added after the last paragraph.  
 "Attention is directed to the following private property parcels that have access restrictions :

<b>San Bernardino County Parcel #</b>	<b>Address</b>	<b>*Contractor to Access Parcels For Construction After The Following Dates</b>
22004	Southern California Edison	April 1, 2013
22050	Southern California Edison	April 1, 2013
22389	Southern California Edison	April 1, 2013
22064	Union Pacific Railroad (U.P.R.R.)	December 31, 2012
22390	Union Pacific Railroad (U. P.R. R.)	December 31, 2012
22391	Burlington Northern-Santa Fe Railro (B.N.S. F.)	December 31, 2012

\*Contractor shall provide 30 day advance written notice to the Engineer prior to entry onto temporary construction easement (TCE)."

In the Special Provisions, Section 10-1.22, "MAINTAINING TRAFFIC," Lane Closure Chart No. 14 is revised as attached.

In the Special Provisions, Section 10-1.22, "MAINTAINING TRAFFIC," Lane Closure Chart No. 15, 16, and 17 are added as attached.

In the Special Provisions, Section 10-1.33, "EXISTING HIGHWAY FACILITIES," subsection "ABANDON PIPELINE," is added before subsection "OBLITERATE SURFACING," as attached.

In the Special Provisions, Section 10-1.33, "EXISTING HIGHWAY FACILITIES," subsection "BRIDGE REMOVAL," is revised as attached.

In the Special Provisions, Section 10-1.36, "EARTHWORK," the following paragraph is added after the fifth paragraph as follows:

"At Newport Avenue Overcrossing (Bridge No. 54-1294) and Highgrove UP (Shoofly) Viaduct (Bridge No. 54-1306S) spread footings, all footing excavations shall be made producing undisturbed native material at bottom-of-footing elevations. The Contractor shall notify the Engineer upon completion of the footing excavations, and allow 5 days to inspect all footing excavations before any further work is completed."

In the Special Provisions, Section 10-1.50, "HOT MIX ASPHALT," subsection "MATERIALS," subsection "Asphalt Binder," the first paragraph is revised as follows:

"The grade of asphalt binder mixed with aggregate for HMA Type A must be PG 64-28PM."

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In the Special Provisions, Section 10-1.52, "HOT MIX ASPHALT (TYPE A - BOND BREAKER)," is revised as attached.

In the Special Provisions, Section 10-1.64, "PILING," the fifth paragraph is revised as follows:

"Difficult pile installation is anticipated due to the presence of loose and caving soils, existing reinforced concrete footings and piles, hard and erratic driving, zones of railroad ballast and ties and roadbed, required use of driving lugs for driven steel piling, predrilling through fill materials, high ground water, subsurface concrete debris, the requirements of pile embedment into rock and traffic control."

In the Special Provisions, Section 10-1.67, "CONCRETE STRUCTURES," subsection "GENERAL," the following paragraph is added after the first paragraph as follows:

"Grout for anchor bolt blockouts shall have a minimum 28-day compressive strength of 5,000 psi and be anchor bolt blockouts shall be fully grouted under pressure with a nonshrink grout mixture in conformance with ASTM Designation: C 1107."

In the Special Provisions, Section 10-1.87, "STEEL STRUCTURES," subsection "MEASUREMENT AND PAYMENT," the following paragraph is added after the first paragraph as follows:

"The contract price paid per pound for furnish structural steel (bridge) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, complete in place, for the special ladder climbing systems, for all metal components and galvanizing that are not paid for as miscellaneous metal (bridge), as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer."

In the Special Provisions, Section 10-1.109, "MISCELLANEOUS METAL (BRIDGE)," the following paragraph is added after the first paragraph as follows:

"Miscellaneous metal (bridge) shall consist of the miscellaneous bridge metal items listed in Section 75-1.03, "Miscellaneous Bridge Metal," of the Standard Specifications and the following:

- A. Checkered walkway plates

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In the Special Provisions, Section 13-1.04, "WORK BY RAILROAD," item (e) is revised as follows:

- "(e) UPRR will furnish all labor, materials, tools, and equipment for railroad work required for the construction of the Project. Construction of the Project must include the following railroad work by UPRR:
- (1) Procurement of materials, equipment and supplies necessary for the railroad work;
  - (2) Preliminary engineering, design, and contract preparation;
  - (3) Furnishing of flagging services during construction of the Project as required and set forth in further detail on **Exhibit C**;
  - (4) Furnishing engineering and inspection as required in connection with the construction of the Project;
  - (5) Providing a contract project coordinator, at STATE's expense, to serve as a project manager for the Project;
  - (6) Providing a structural coordinator, at STATE's expense, to monitor any construction activities;
  - (7) Construction and Removal of the Ice Deck Siding #2 and Shoo-flies, including line-overs for Ice Deck Siding #2;
  - (8) Removal of UPRR Main Track associated with the Grand Terrace bridge removal;
  - (9) Providing survey control for all track work; and
  - (10) Providing review, at STATE's expense, of plans and specifications for any falsework, shoring, and demolition that may be subsequently submitted to UPRR by STATE or its contractor for approval."

In the Special Provisions, Section 13-1.05, "WORK BY STATE," item (b)(4) is revised as follows:

"(4) All necessary backfill of excavations and restoration of disturbed vegetation on UPRR's right-of-way;"

In the Special Provisions, Section "EXHIBIT "C" TO THE BNSF C&M AGREEMENT, CONTRACTOR REQUIREMENTS, 1.01 GENERAL," subsection "1.01.03," is revised as follows:

"1.01.03 The Contractor must plan, schedule and conduct all work activities so as not to interfere with the movement of any trains on Railway Property. The Railway and STATE mutually agree that no construction activities at anytime, or future maintenance of the Structure that would interfere with BNSF's operations will be permitted during the fourth quarter of each calendar year. Emergency work will be permitted only upon prior notification to BNSF's Network Operations Center (telephone number: 800 832-5452). The parties hereto mutually understand and agree that trains cannot be subjected to delay during this time period.

STATE must require its Contractor(s) to reasonably adhere to the Project's construction schedule for all Project work. At BNSF's discretion, any work that would affect train operations shall be scheduled at night. The parties hereto mutually agree that BNSF's failure to complete the railroad work in accordance with the construction schedule due to inclement weather or unforeseen railroad emergencies will not constitute a breach of this Agreement by BNSF and will not subject BNSF to any liability. Regardless of the requirements of the construction schedule, BNSF reserves the right to reallocate the labor forces assigned to complete the railroad work in the event of an emergency to provide for the immediate restoration of railroad operations (BNSF or its related railroads) or to protect persons or property on or near any BNSF owned property. BNSF will not be liable for any additional costs or expenses resulting from any such reallocation of its labor forces. The parties mutually agree that any reallocation of labor forces by BNSF pursuant to this provision and any direct or indirect consequences or costs resulting from any such reallocation will not constitute a breach of this Agreement by BNSF. In the event of significant delay, the Temporary Construction License may be extended by written agreement of the parties."

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In the Special Provisions, Section "EXHIBIT "C" TO THE BNSF C&M AGREEMENT, CONTRACTOR REQUIREMENTS, 1.01 GENERAL," subsection "1.01.07," is revised as follows:

"1.01.07 For any bridge demolition and/or falsework above any tracks or any excavations located with any part of the excavations located within, whichever is greater, twenty-five (25) feet of the nearest track or intersecting a slope from the plane of the top of rail on a 2 horizontal to 1 vertical slope beginning at eleven (11) feet from centerline of the nearest track, both measured perpendicular to center line of track, the Contractor must furnish the Railway five sets of working drawings showing details of construction affecting Railway Property and tracks. The working drawing must include the proposed method of installation and removal of falsework, shoring or cribbing, not included in the contract plans and two sets of structural calculations of any falsework, shoring or cribbing. For all excavation and shoring submittal plans, the current "BNSF-UPRR Guidelines for Temporary Shoring" must be used for determining the design loading conditions to be used in shoring design, and all calculations and submittals must be in accordance with the current "BNSF-UPRR Guidelines for Temporary Shoring". All submittal drawings and calculations must be stamped by a registered professional engineer licensed to practice in the state the project is located. All calculations must take into consideration railway surcharge loading and must be designed to meet American Railway Engineering and Maintenance-of-Way Association (previously known as American Railway Engineering Association) Coopers E-80 live loading standard. All drawings and calculations must be stamped by a registered professional engineer licensed to practice in the state the project is located. The Contractor must not begin work until notified by the Railway that plans have been approved. The Contractor will be required to use lifting devices such as, cranes and/or winches to place or to remove any falsework over Railway's tracks. In no case will the Contractor be relieved of responsibility for results obtained by the implementation of said approved plans.

The work hereunder must be done in accordance with the Bridge Requirements set forth on Exhibit F of the BNSF C&M Agreement, the "Instructions for Preparation of Demolition Plans" as set forth in Exhibit G of the BNSF C&M Agreement, and the detailed plans and specifications approved by BNSF."

In the Bid book, in the "Bid Item List," Item 104 is revised, Items 336, 337 are added and Item 335 is deleted as attached.

To Bid book holders:

Replace pages 8 and 20 of the "Bid Item List" in the Bid book with the attached revised pages 8 and 20 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.

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This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/08/08-0M94U4](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/08/08-0M94U4)**

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,



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

Attachments

**5-1.20 NONHIGHWAY FACILITIES (INCLUDING UTILITIES)**

During the progress of the work under this Contract, the utility owner will relocate a utility shown in the following table within the corresponding number of days shown. Notify the Engineer before you work within the approximate location of a utility shown. The days start on the notification date.

**Utility Relocation and Department-Arranged Time for the Relocation**

Utility	Location	Days
<b>SCG (GAS)</b>		
1. 6" GAS Line High Pressure Protect in place by Contractor	U-7 71.4' Lt "ALN1" Station 532+60.1 to 72.0' Rt "ALN1" Station 532+64.3	Protect in place
2. 6" GAS LINE HIGH PRESSURE Protect in place by Contractor	U-12 353.8' Lt "ALN2" Station 26+78.1 to 459.3' Rt "ALN2" Station 33+38.8	Protect in place
3. 12" GAS Line High Pressure To be abandoned by other	U-11,U-12, U-13, U-31 196' Lt "ALN2" Station 22+71.6 to 857' Lt "ALN2" Station 52+22.2	During construction
<b>Water</b>		
4. 24" WATER LINE WITH 36" STEEL CASING City of Riverside Water Protect in Place by Contractor	U-5 72.30' Lt "ALN1" Station 494+76.3 to 112.44' Rt "ALN1" Station 494+10.3	Protect in place
5. ABANDON XX" STEEL City of Colton Water CASING 6" CIP WATER LINE	U-14 84.4' Lt "ALN2" Station 59+47.4 to 92.0' Rt "ALN2" Station 61+66.7	Abandoned In Place
6. ABANDON 6" IRRIGATION LINE RHWC	U-22 110.78' Lt "ALN2" Station 181+80.63 to 119.34' Rt "ALN2" Station 178+56.98	Abandoned In Place
7. 6" CIP WATER Colton Water Protect in Place by Contractor	U-12 380.8' Lt "ALN2" Station 26+73.6 to 496.7' Lt"ALN2" Station 33+33.7	Protect in place
8. SCE-4 POWER POLE (#4259160E) Protect in place by SCE	U-11 STATION 16+50 LT Protect in place During construction	Protect in place by SCE
9. 14" WATER LINE (SWC) Sierra Water Company	U-13 108.0' Lt "ALN2" Station 52+20.9 to 118.4' Rt "ALN2" Station 49+79.5	Abandon During Construction By project contractor

<b>Fiber Optic Line</b>		
10. Fiber Optic Line AT&T Protect in Place by Contractor	U-3 226.2' Lt "ALN1" Station 475+63 to 70.0' Rt "ALN1" Station 475+61.3	Protect in Place
11. Fiber Optic Line AT&T Protect in Place by Contractor	U-3 220.0' Lt "ALN1" Station 475+67.9 to 70.0' Rt "ALN1" Station 475+74.9	Protect in Place

**Utility Relocation and Contractor-Arranged Time for the Relocation**

Utility	Utility Address	Location	Days
<b>SCG (Gas)</b>			
12. 2" GAS LINE HIGH PRESSURE	Steve Spencer 1981 W. Lugonia Ave Redlands, CA 92374-9796 Phone: (909)335-7879 <a href="mailto:sspencer@semprautilities.com">sspencer@semprautilities.com</a>	U-9 113.9'Rt "ALN1" Station 549+26.0 to 102.5' Rt "ALN1" Station 551+19.7	Advance Notice Required:40 business Days Working Days: 40 Days
13. 2" GAS LINE HIGH PRESSURE	Steve Spencer 1981 W. Lugonia Ave Redlands, CA 92374-9796 Phone: (909)335-7879 <a href="mailto:sspencer@semprautilities.com">sspencer@semprautilities.com</a>	U-14, U-15 63.5' Lt "ALN2" Station 59+81.1 to 139.5' Lt "ALN2" Station 74+98.3	Advance Notice Required:40 business Days Working Days:40 Days
<b>SCE</b>			
14. SCE-1 GUY WIRE POLE (# 416977E)	Raul Martinez Planner 2 Edison Carrier Solutions San Bernardino Regional Office- Trailers Phone: (909)873-3276 <a href="mailto:Raul.9.Martinez@sce.com">Raul.9.Martinez@sce.com</a>	U-10 STATION 568+001 LT	Advance Notice Required:15 business Days Working Days: 15 Days
15. SCE-2 POWER POLE (#1981346E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-10 STATION 570+001 LT	Advance Notice Required:15 business Days Working Days:15 Days
16. SCE-3 POWER POLE (#4168954E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-11 STATION 10+50 LT	Advance Notice Required:15 business Days Working Days:15 Days

17. SCE-5 POWER POLE (#4286951E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-12 STATION 32+50 LT	Advance Notice Required:15 business Days Working Days: 30 Days
18. SCE-7 POWER POLE (#1766610E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-13 STATION 39+50 RT	Advance Notice Required:60 business Days Working Days:45 Days
19. SCE-8 POWER POLE (#1766611E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-13 STATION 41+00 RT	Advance Notice Required:60 business Days Working Days:45 Days
20. SCE-9 POWER POLE (#2177603E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 103+00 RT	Advance Notice Required:30 business Days Working Days:45 Days
21. SCE-10 POWER POLE (#2216768E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 103+50 RT	Advance Notice Required:30 business Days Working Days:45 Days
22. SCE-11 POWER POLE (#4387041E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 104+50 RT	Advance Notice Required:30 business Days Working Days:45 Days
23. SCE-12 POWER POLE (#4402226E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 103+00 LT	Advance Notice Required:30 business Days Working Days:45 Days

24. SCE-13 POWER POLE (#12515705E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 103+50 LT	Advance Notice Required:30 business Days Working Days:45 Days
25. SCE-14 POWER POLE (#1420599E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-17 STATION 104+50 LT	Advance Notice Required:30 business Days Working Days:45 Days
26. SCE-15 POWER POLE (#4286983E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-12 STATION 31+00 LT	Advance Notice Required:15 business Days Working Days:15 Days
27. SCE-16 POWER POLE (#1766609E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-12 & U-30 STATION 36+50 RT	Advance Notice Required:60 business Days Working Days:45 Days
28. SCE-18 POWER POLE (#1289692E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-9 STATION 550+25 RT	Advance Notice Required:30 business Days Working Days:15 Days
29. SCE-19 POWER POLE (#1407152E)	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	U-11 STATION 18+00 RT Remove During construction	Advance Notice Required:30 business Days Working Days:15 Days
<b>COC-E</b>			
30. COC-E-5 POWER POLE (PP#4696F) Relocate before construction	Mitch Grigg (909)370-6192	U-12 STATION 33+00 LT	Advance Notice Required:15 business Days Working Days:15 Days
<b>City of Riverside ( Electric)</b>			
31. COR-E-1 POWER POLE (PP#J35145) Relocate before construction	Viset Ong Utilities Senior Electrical Engineer (951)826-5731 <a href="mailto:vong@riversideca.gov">vong@riversideca.gov</a> RiversidePublicUtilities.com	U-7 STATION 529+00 RT	Advance Notice Required:30 business Days Working Days:30 Days

32. COR-E-2 POWER POLE (PP#J37443) Relocate before construction	Viset Ong Utilities Senior Electrical Engineer (951)826-5731 <a href="mailto:vong@riversideca.gov">vong@riversideca.gov</a> RiversidePublicUtilities.com	U-7 STATION 533+20 LT	Advance Notice Required:30 business Days Working Days: 30 Days
33. COR-E-3 POWER POLE (PP#J37442) Relocate before construction	Viset Ong Utilities Senior Electrical Engineer (951)826-5731 <a href="mailto:vong@riversideca.gov">vong@riversideca.gov</a> RiversidePublicUtilities.com	U-8 STATION 536+20 LT	Advance Notice Required:30 business Days Working Days:30 Days
34. COR-E-4 POWER POLE (PP#J36584) Remove and Replace	Viset Ong Utilities Senior Electrical Engineer (951)826-5731 <a href="mailto:vong@riversideca.gov">vong@riversideca.gov</a> RiversidePublicUtilities.com	U-8 STATION 535+00 LT	Advance Notice Required:30 business Days Working Days:30 Days
35. Proposed 8" Sewer line & Sewer Manhole and Fire Hydrant by other. City of Colton Water & Sewer	Jess Soto (909)370-5003	U-11 131' Lt "ALN2" Station 14+55.6	15 Days It will be completed by 12/28/12
36. 108" Concrete Pipe Water in 162" Steel Plate casing DWR Protect in Place During Construction		U-21, U-22 111.98' Lt "ALN2" Station 171+75.17 to 121.63' Rt "ALN2" Station 170+40.97	7 Days Notice Prior to starting working Water Resource Right of Way.
<b>AT&amp;T</b>			
37. Telephone line Protect in place	Anthony Kwan (714)237-7126	U-5 98.3' Rt "ALN1" Station 494+45.4 to 110.5' Rt "ALN1" Station 499+19.0	Advance Notice Required:15 business Days Working Days:30 Days
38. UG Tele (AT&T) Relocate before construction	Anthony Kwan (714)237-7126	U-9 100.2' Rt "ALN1" Station 549+55.2 to 100.6' Rt "ALN1" Station 553+04.9	Advance Notice Required:15 business Days Working Days:30 Days
39. UG Tele (AT&T) Proposed UG Telephone line Complete install Before construction	Anthony Kwan (714)237-7126	U-8 to U9 106' Rt "ALN1" Station 544+50 to 122.7' Rt "ALN1" Station 555+50	Advance Notice Required:15 business Days Working Days:30 Days

<b>Verizon</b>			
40. Verizon Telephone line Jack and Bore new line	Verizon Bret Plaskey (909)929-9491	U-27 119.24' Lt "ALN3" Station 245+92.23 to 149.02' Rt "ALN3" Station 245+92.23	Advance Notice Required:30 business Days Working Days:30 Days
41. 12" GAS LINE HP Relocation during construction	Steve Spencer 1981 W. Lugonia Ave Redlands, CA 92374-9796 Phone: (909)335-7879 <a href="mailto:sspencer@semprautilities.com">sspencer@semprautilities.com</a>	U-12-U-13. 366.8' Rt "ALN2" Station 36+75.6 to 459.2' Lt "ALN2" Station 47+68.3	Advance Notice Required: 40 business Days Working Days: 40 Days
42. 8" HP Gas line in 28" steel casing New Gas line Jack and Boring During construction	Steve Spencer 1981 W. Lugonia Ave Redlands, CA 92374-9796 Phone: (909)335-7879 <a href="mailto:sspencer@semprautilities.com">sspencer@semprautilities.com</a>	U-16 113' Lt "ALN2" Station 90+03 to 89.3' Rt "ALN2" Station 90+48.8	Advance Notice Required:40 business Days Working Days:45 Days
<b>Fiber Optic-AT&amp;T Long Haul</b>			
43. Fiber Optic line Jack &Bore under UPRR Bridge	Glenn Sels Project Engineer 22311 Brookhurst St, Suite 203 Huntington Beach, CA 92646 Phone : (714)963-6793 <a href="mailto:glenns@forkertengineering.com">glenns@forkertengineering.com</a>	U-13 105.1' Lt "ALN2" Station 52+61 to 117.2' Rt "ALN2" Station 50+25.4	Advance Notice Prior to existing track Remove: 30 business Days Working Days: 30 Days
<b>Fiber Optic US Sprint</b>			
44. Fiber Optic line-Temporary attached on Shoofly after Shoofly completed install. Relocate Fiber Optic line from Shoofly to BNSF Mainline.	Lynn Durrett Field Services Support 282 South Sycamore Ave Rialto, CA 92376 Phone: (909)873-8022 <a href="mailto:lynn.durrett@ericsson.com">lynn.durrett@ericsson.com</a>	U-12 & U-13 444.9' Lt "ALN2" Station 46+08.9 to 376.88' Rt "ALN1" Station 34+87.3	Advance Notice Required: 30 business Days Working Days: 30 Days
<b>Riverside Highland Water Company (RHWC)</b>			
45. 10" Water line To be Relocated before Newport Bridge Dismantling and reinstated after new Bridge is installed.	Graig Gudgeon 12374 Michigan St Grand Terrace, CA 92313 Phone: (909) 825-4128 <a href="mailto:Cgudgeon@rhwco.com">Cgudgeon@rhwco.com</a>	U-17 99.52' Lt "ALN Station 103+8.16 to 69.0' Rt ALN2" Station 103+45.75	Advance Notice prior to construct bridge: 30 business Days Working Days: 30 Days

<b>SCE-Distribution</b>			
46. 4-5" PVC with 12KV run through bridge cells.	Albert J. Ramirez Project Manager Building C, 300 N. Pepper Ave Rialto, CA 92376 Phone: (909)820-5532 <a href="mailto:Albert.ramirez@sce.com">Albert.ramirez@sce.com</a>	Newport Ave Bridge Station 103+00	Advance Notice prior to construct bridge: 30 business Days Working Days: 30 Days
<b>SCE-Communication</b>			
47. Relocate Underground Telecommunication Line.	Raul Martinez Planner 2 Edison Carrier Solutions San Bernardino Regional Office- Trailers Phone: (909)873-3276 <a href="mailto:Raul.9.Martinez@sce.com">Raul.9.Martinez@sce.com</a>	Newport Ave Bridge Station 103+40	Advance Notice prior to construct bridge: 30 business Days Working Days: 30 Days
48. SCE-SECURITY FENCE POST BLOCKOUT	Adrian Flores Major Projects Organization (MPO) Project Manager Phone: (714) 255-6868 Cell: (714) 349-4581	Newport Ave Bridge OC ( Replace) Retaining Wall No. 101B	Advance Notice prior Required: 30 business Days during constructing Retaining Wall No. 101B During construction Retaining Wall No. 101B the contractor shall provide 30 working days to complete Fence Post Blockout.

To allow pile driving, drilling activities, or subsurface construction, the utility owner will rearrange the utilities shown in the following table during construction activities. No other utility will be rearranged or temporarily deactivated before or during construction activities for this purpose unless you make arrangements with the utility owner. Notify the Engineer at least 30 days before the interfering utilities are to be rearranged. The Engineer notifies the utility owners.

**Utility Rearrangement for Pile Driving, Drilling Activities, or Subsurface Construction**

Utility	Location
49. 2" PVC UG Colton Electric Protect in Place by Contractor	U-24 218.5' Lt "A1CON2" Station 206+21.8 to Rt 190.26' "A1CON1" 206+31.9
50. 12" CMLC WATER LINE Colton Water Protect in Place by Contractor	U-24 114.1' Lt "A1CON2" Station 212+22.0 to 69.7' Rt "A1CON1" Station 212+21.8
51. 4" PVC Conduit AT&T Protect in Place by Contractor	U-24 218.4' Lt "A1CON2" Station 206+20.9 to 190.1' Rt "A1CON1" Station 206+30.6

52. Telephone Line AT&T Protect in Place by Contractor	U-24 114.93' Lt "A1CON2" Station 212+33.10 to 280.10' Rt "A1CON1" Station 212+34.24
53. 8" ACP/CIP Water line SBMWD Protect in Place by Contractor	U-26 130.57' Lt "A1CON2" Station 237+97.07 to 96.00' Rt "A1CON1" Station 238+23.4
54. 6" STEEL GAS LINE SCG Protect in Place by Contractor	U-26 130.8' Lt "A1CON2" Station 237+94.8 to 96.0' Rt "A1CON2" Station 238+26.2
55. 20" PETROLEUM HIGH PRESSURE Kinder Morgan Company Protect in Place by Contractor	U-24 226.6' Lt "ALN2" Station 210+68.1 to 253.4' Rt "ALN2" Station 210+72.1

The Contractor shall protect in place the utilities shown in the table below with sand backfill and minor concrete prior to any work being done above these utilities. Work to be done follows:

- A. Gas, Telephone, and Fiber Optics cable lines shall be backfilled by sand on top of pipe or pipe casing and minor concrete above the sand.
- B. Water lines shall be covered with minor concrete on top of pipe or the pipe casing.
- C. The minimum width of backfill shall be 2 feet unless otherwise noted on the plans.
- D. Work will be paid for separately as shown on Summary of Quantity Sheet, Q-10.

Station	Sheet No.	Utility	Length	Sand Backfill	Minor concrete (Backfill)
				Thickness (ft)	Thickness (ft)
499+46.1 150.2' Lt "ALN1"	U-5	Gas	10	1	0.5
499+92.1 155.9' Lt "ALN1"	U-5	Gas	8	1	0.5
500+38.1 163.5' Lt "ALN1"	U-5	Gas	12	1	0.5
498+93.1 110.0' Rt "ALN1"	U-5	Telephone	8	1	0.5
510+50.7 71.78' Rt "ALN1"	U-6	Water	3.3		0.5
532+60.1 71.4' Lt "ALN1"	U-7	Gas	39	1	0.5
532+62.5 9.6' Rt "ALN1"	U-7	Gas	19.5	1	0.5
532+64.3 76.3' Rt "ALN1"	U-7	Gas	39	1	0.5
554+97.3 76.8' Lt "ALN1"	U-9	Telephone	44	1	0.5
555+27.4 10' Lt "ALN1"	U-9	Telephone	22	1	0.5
555+48.4 37' Rt "ALN1"	U-9	Telephone	24	1	0.5
546+01.6 70.8' Lt "ALN1"	U-9	Water	4		0.5
546+03.8 67.5' Rt "ALN1"	U-9	Water	4		0.5
562+80.3 73.1' Lt "ALN1"	U-10	Gas	31.5	1	0.5
563+10.2 10.6' Rt "ALN1"	U-10	Gas	22.6	1	0.5
563+28.7 40.4' Rt "ALN1"	U-10	Gas	31.5	1	0.5
11+84.7 117.9' Lt "ALN2" To	U-11	Gas			
16+34.1 187.0' Lt "ALN2"	U-11	Gas	455	1	0.5

29+90.5 406.3' Lt "ALN2" To	U-12	Gas			
31+40.8 429.4' Lt "ALN2"	U-12	Gas	155.5	1	0.5
155+09.4 37.3' Lt "ALN2"	U-20	Fiber Optic	71	1	0.5
155+64.8 12.5' Rt "ALN2"	U-20	Fiber Optic	38	1	0.5
156+29.8 66.1' Rt "ALN2"	U-20	Fiber Optic	44	1	0.5
155+46.8 37.8' Lt "ALN2"	U-20	Telephone	52	1	0.5
156+06.8 12.5' Rt "ALN2"	U-20	Telephone	38	1	0.5
156+70.0 65.3' Rt "ALN2"	U-20	Telephone	43	1	0.5
171+56.6 81.0' Lt "ALN2"	C-95	Water	34		1.7
170+69.1 72.0' Rt "ALN2"	C-95	Water	34		1.7

Additional special instructions to the contractor regarding utilities follow.

The Southern California Gas Company has requested the following design parameters are strictly adhered to during construction over their gas lines and should be protected in place:

- Consideration be given to the safety of our pipeline during the design and construction stages.
- No mechanical equipment will be permitted to operate within three horizontal feet or one vertical foot of the pipeline, and any closer work must be done by hand. No heavy equipment to cross pipeline without Gas Company Representative's approval.
- A representative of The Gas Company must observe the excavation around or near our facilities to insure protection and to record pertinent data necessary for our operations.
- Vertical clearance of at least two (2) feet between High Pressure Gas Facilities and any substructure crossing, and all laterals must cross perpendicular to the gas facilities.
- All equipment crossing gas easement must be approved by the Gas Company Representative, and all crossings require a minimum of seven (7) feet of cover over gas facilities.
- Only rubber tire, light loading equipment will be allowed to work within the Gas Company Easement and no mechanical equipment will be permitted to operate within two (2) vertical feet of the pipeline. Any closer work must be performed by hand.
- A Construction Note to be placed on plans requiring Notification of Gas Company Representative prior to any work within the Gas Company Easement.
- A Caution Note to be placed on plans stating, "Caution, High Pressure Gas Line, Do Not Disturb", at each proposed crossing.
- No Change of Grade within Gas Company Easement without Gas Company's approval. No permanent structures within easement without Gas Company approval.
- Horizontal clearance of at least ten (10) feet between High Pressure Gas Facilities and any parallel substructure.
- No vibratory compaction equipment permitted within ten feet of High Pressure Gas Line. Static compaction equipment is permitted.

Should a re-location of the gas lines be necessary, a minimum of 6 months will be required in order to review, design, procure materials, construct and complete the re-locations. Any re-location is also subject to being up to 100% collectible.

Upon request, at least two (2) working days prior to the start of construction, we will locate and mark our active underground facilities for the contractor at no cost. Please call Underground Service Alert (USA) at (800) 422-4133.

Arrangements for someone to stand-by and observe can be made by calling (951) 845-0712 two working days prior to the start of construction.

The following person are the point of contact for this project for the different utility companies:

SCE-D	- Ryan Jasso	- 909.307.6749
SCE-T	- Albert Ramirez	- 951.492.1313
SCE-C	- Raul Martinez	- 909.873.3276
AT&T	- Anthony Kwan	-714.237.7126
AT&T Long Haul	- Glen Sels.	- 714.963.6793 ex 231
City of Colton Electric	- Mitch Grigg	- 909.370.6192
City of Colton Sewer and Water	- Jess Soto	- 909.370.5003
RPU-Electric	- Viset Ong	- 951.826.5731
RPU-Water	- Blake Yamamoto	- 951.826.5549
Verizon	- Bret Plaskey	- 951.929.9491
Time Warner Cable	-Bruce Deweese	- 909.721.8589
Time Warner Telecom	- Barton VanWey	-909.456.3693
Charter Communication	- Micah Polk	-951.343.5100
Fiber Optic-Level 3 (L3)	- James Dailey	-858.292.2108 Cell 858.688.7007
City of San Bernardino Sewer	-John Van Havermat	-909.384.5143
City of Riverside Sewer	- Lonny Young	-951.826.5294
City of Grand Terrace Sewer	- Richard Shields	-909.825.3825
SAWPA (SARI) Sewer	-Rich Haller	-909.354.4240
SAWPA (RIX) Sewer	- Vince Bibbee	-909.783.8937 Cell 909.379.2519
SBMWD Water	-Michael Nevarez	-909.384.5092
Sierra Water Company	-Aaron Hodgdon	-909.783.3020
Kinder Morgan Company	-Tom Larkin	-951.830.9511

The Kinder Morgan, Inc. (KM) has requested the following guidelines for design and construction near and within their hazardous liquid operated facilities are strictly adhered and should be protected in place:

Contact Mr. Tom Larkin (951) 830-9511, at least two weeks prior to Commencement of work. Mr. Larkin will arrange for a pipeline representative to be present during work near the pipeline.

The list of design, construction and contractor requirements, including but not limited to the following, for the design and installation of foreign utilities or improvements on KM right of way (ROW) are not intended nor do they waive or modify any rights KM may have under existing easements or ROW agreements. Reference existing easements and amendments for additional requirements. This list of requirements is applicable for KM facilities on easements only. Encroachments on fee property should be referred to the ROW Department.

#### Design

- KM shall be provided sufficient prior notice of planned activities involving excavation, blasting or any type of construction on KM's ROW to determine and resolve any location, grade or encroachment problems and provide protection of our facilities and the public **before** the actual work is to take place.
- Encroaching entity shall provide KM with a set of drawings for review and a set of final construction drawings showing all aspects of the proposed facilities in the vicinity of KM's ROW. The encroaching entity shall also provide a set of "As-Built" drawings showing the proposed facilities in the vicinity of KM's ROW.
- Only facilities shown on drawings reviewed by KM will be approved for installation on KM's ROW. All drawing revisions that effect facilities proposed to be placed on KM's ROW must be approved by KM in writing.
- KM shall approve the design of all permanent road crossings.
- Any repair to surface facilities following future pipeline maintenance or repair work by KM will be at the expense of the developer or landowner.
- The depth of cover over the KM pipelines shall not be reduced nor drainage altered without KM's written approval.
- Construction of any permanent structure, building(s) or obstructions within KM pipeline easement is **not** permitted.
- Planting of shrubs and trees is not permitted on KM pipeline easement.
- Irrigation equipment i.e., backflow prevent devices, meters, valve boxes, etc. shall not be located on KM easement.

- Foreign line, gas, water, electric and sewer lines, etc., may cross perpendicular to KM's pipeline within the ROW, provided that a minimum of two (2) feet of vertical clearance is maintained between KM pipeline(s) and the foreign pipeline. Constant line elevations must be maintained across KM's entire ROW width, gravity drain lines are the only exception. Foreign line crossings below the KM pipeline must be evaluated by KM to ensure that a significant length of the KM line is not exposed and unsupported during construction. When installing underground utilities, the last line should be placed beneath all existing lines unless it is impractical or unreasonable to do so. Foreign line crossings above the KM pipeline with less than 2 feet of clearance must be evaluated by KM to ensure that additional support is not necessary to prevent setting on top of the KM hazardous liquids pipeline.
- A foreign pipeline shall cross KM facilities at as near a ninety-degree angle as possible. A foreign pipeline shall not run parallel to KM pipeline within KM easement without permission of KM.
- The foreign utility should be advised that KM maintains cathodic protection on their pipelines. The foreign utility must coordinate their cathodic protection system with KM's. At the request of KM, foreign utilities shall install (or allow to be installed) cathodic protection test leads at all crossings for the purposes of monitoring cathodic protection. The KM Cathodic Protection (CP) technician and the foreign utility CP technician shall perform post construction CP interference testing. Interference issues shall be resolved by mutual agreement between foreign utility and KM. All costs associated with the correction of cathodic protection problems on KM pipeline as a result of the foreign utility crossing shall be borne by the foreign utility for a period of one year from date the foreign utility is put in service.
- The metallic foreign line shall be coated with a suitable pipe coating for a distance of at least 10 feet on either side of the crossing unless otherwise requested by the KM CP Technician.
- AC Electrical lines must be installed in conduit and properly insulated.
- DOT approved pipeline markers shall be installed so as to indicate the route of the foreign pipeline across the KM ROW.
- No power poles, light standards, etc. shall be installed on KM easement.
- No pipeline may be located within 50 feet (15 meters) of any private dwelling, or any industrial building or place of public assembly in which persons work, congregate or assemble.

#### **Construction**

- Contractors shall be advised of KM's requirements and be contractually obligated to comply.
- The continued integrity of KM's pipelines and the safety of all individuals in the area of proposed work near KM's facilities are of the utmost importance. Therefore, contractor must meet with KM representatives prior to construction to provide and receive notification listings for appropriate area operations and emergency personnel. KM's on-site representative will require discontinuation of any work that, in his opinion, endangers the operations or safety of personnel, pipelines or facilities.
- The Contractor must expose all KM pipelines prior to crossing to determine the exact alignment and depth of the lines. A KM representative must be present. In the event of parallel lines, only one pipeline can be exposed at a time.
- KM will not allow pipelines to remain exposed overnight without consent of KM designated representative. Contractor may be required to backfill pipelines at the end of each day.
- A KM representative shall do all line locating. A KM representative shall be present for hydraulic excavation. The use of probing rods for pipeline locating shall be performed by KM representatives only, to prevent unnecessary damage to the pipeline coating.
- Notification shall be given to KM at least 72 hours before start of construction. A schedule of activities for the duration of the project must be made available at that time to facilitate the scheduling of Kinder Morgan, Inc.'s work site representative. Any Contractor schedule changes shall be provided to Kinder Morgan, Inc. immediately.
- Heavy equipment will not be allowed to operate directly over KM pipelines or in KM ROW unless written approval is obtained from KM. Heavy equipment shall only be allowed to cross KM pipelines at locations designated by Kinder Morgan, Inc. Contractor shall comply with all precautionary measures required by KM to protect its pipelines. When inclement weather exists, provisions must be made to compensate for soil displacement due to subsidence of tires. Equipment excavating within ten (10) feet of KM Pipelines will have a plate guard installed over the teeth to protect the pipelines.
- Excavating or grading which might result in erosion or which could render the KM ROW inaccessible shall not be permitted unless the contractor/developer/owner agrees to restore the area to its original condition and provide protection to KM's facility.

- A KM representative shall be on-site to observe any construction activities within ten (10) feet of a KM pipeline or aboveground appurtenance. The contractor shall not work within this distance without a KM representative being on site. Only hand excavation shall be permitted within two (2) feet of KM pipelines, valves and fittings unless State requirements are more stringent. However, proceed with extreme caution when within three (3) feet of the pipe.
- A KM representative will monitor construction activity within 25 feet of KM facilities during and after the activities to verify the integrity of the pipeline and to ensure the scope and conditions agreed to have not changed. Monitoring means to conduct site inspections on a pre-determined frequency based on items such as: scope of work, duration of expected excavator work, type of equipment, potential impact on pipeline, complexity of work and/or number of excavators involved.
- Ripping is only allowed when the position of the pipe is known and not within ten (10) feet of KM facility unless company representative is present.
- Temporary support of any exposed KM pipeline by Contractor may be necessary if required by KM's on-site representative. Backfill below the exposed lines and 12" above the lines shall be replaced with sand or other selected material as approved by KM's on-site representative and thoroughly compacted in 12" lifts to 95% of standard proctor dry density minimum or as approved by KM's on-site representative. This is to adequately protect against stresses that may be caused by the settling of the pipeline.
- No blasting shall be allowed within 1000 feet of KM's facilities unless blasting notification is given to KM including complete Blasting Plan Data. A pre-blast meeting shall be conducted by the organization responsible for blasting. KM shall be indemnified and held harmless from any loss, cost of liability for personal injuries received, death caused or property damage suffered or sustained by any person resulting from any blasting operations undertaken within 500 feet of its facilities. The organization responsible for blasting shall be liable for any and all damages caused to KM's facilities as a result of their activities whether or not KM representatives are present. KM shall have a signed and executed Blasting Indemnification Agreement before authorized permission to blast can be given.

No blasting shall be allowed within 300 feet of KM's facilities unless blasting notification is given to KM a minimum of one week before blasting. KM shall review and analyze the blasting methods. A written blasting plan shall be provided by the organization responsible for blasting and agreed to in writing by KM in addition to meeting requirements for 500' and 1000' being met above. A written emergency plan shall be provided by the organization responsible for blasting

- Any contact with any KM facility, pipeline, valve set, etc. shall be reported immediately to KM. If repairs to the pipe are necessary, they will be made and inspected before the section is re-coated and the line is back-filled.
- KM personnel shall install all test leads on KM facilities.
- Burning of trash brush, etc. is not permitted within the KM ROW.

#### **Insurance Requirements**

- All contractors, and their subcontractors, working on Company easements shall maintain the following types of insurance policies and minimum limits of coverage. All insurance certificates carried by Contractor and Grantee shall include the following statement: "Kinder Morgan and its affiliated or subsidiary companies are named as additional insured on all above policies (except Worker's Compensation) and waiver of subrogation in favor of Kinder Morgan and its affiliated or subsidiary companies, their respective directors, officers, agents and employees applies as required by written contract." Contractor shall furnish Certificates of Insurance evidencing insurance coverage prior to commencement of work and shall provide thirty (30) days notice prior to the termination or cancellation of any policy.
1. Statutory Coverage Workers' Compensation Insurance in accordance with the laws of the states where the work is to be performed. If Contractor performs work on the adjacent on navigable waterways, Contractor shall furnish a certificate of insurance showing compliance with the provisions of the Federal Longshoreman's and Harbor Workers' Compensation Law.
  2. Employer's Liability Insurance with limits of not less than \$1,000,000 per occurrence and \$1,000,000 disease each employee.
  3. Commercial General Liability Insurance with a combined single limit of not less than \$2,000,000 per occurrence and in the aggregate. All policies shall include coverage for blanket contractual liability assumed.
  4. Comprehensive Automobile Liability Insurance with a combined single limit of not less than \$1,000,000. If necessary, the policy shall be endorsed to provide contractual liability coverage.

5. If necessary, Comprehensive Aircraft Liability Insurance with combined bodily injury, including passengers and property damage liability single limits of not less than \$5,000,000 each occurrence.
6. Contractor's Pollution Liability Insurance this coverage shall be maintained in force for the full period of this agreement with available limits of not less than \$2,000,000 per occurrence.
7. Pollution Legal Liability Insurance this coverage must be maintained in a minimum amount of \$5,000,000 per occurrence.

Storage and placement of construction equipment and materials is not allowed within Department of Water Resources Right of Way.

A seven (7) day advance notification is required prior to starting work within Department of Water Resources Right of Way, contact the Department of Water Resources, Division of Engineering Encroachment Permit Section, Sacramento, California at (800) 600-4397. The Southern Field Division shall be simultaneously notified at (661) 944-8500.

Except as otherwise provided herein, measures shall be taken by the Contractor to protect in place all SWP facilities and appurtenances, including but not limit to communication and control cables and cathodic protection test stations. The permittee and the Contractor will be liable for all damages to SWP facilities and appurtenances as a result of the construction, and for many other damages or losses suffered by DWR or its water contractors, including power, irrigation, municipal and industrial water supply, and communication losses.

**Chart No. 14  
Complete Ramp Closure Hours/Ramp Lane Requirements**

County: Riverside      Route/Direction: 215, N/B & S/B      PM: 44.0/45.0

Closure Limits: N/B & S/B Columbia Ave. on and off ramps, N/B Center Ave. off-ramp, & S/B Center Ave. on and off ramps

FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS: Each ramp shall be allowed to be fully closed, only once, up to 10 days. The starting day and time shall be on Friday at 2100 hours and the ending day and time shall be Monday at 5 hours.

Chart No. 15 Complete Ramp Closure Hours/Ramp Lane Requirements																									
County: San Bernardino					Route/Direction: 215, N/B & S/B										PM: 0.0/3.0										
Closure Limits: N/B & S/B Columbia Ave. on and off ramps, N/B Center Ave. off ramp, & S/B Center Ave. on and off ramps																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fridays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Saturdays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sundays	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C

Legend:

C Ramp may be closed completely

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS: Each ramp shall be allowed to be fully closed, only once, up to 10 days. The starting day and time shall be on Friday at 2100 hours and the ending day and time shall be Monday at 0500 hours.

Chart No. 16 Freeway/Expressway Lane Requirements																									
County: San Bernardino					Route/Direction: 10 E/B										PM: 23.5/24.0										
Closure Limits:																									
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays through Thursdays	1	1	1	1	1	2																	3	2	2
Fridays	1	1	1	1	1	2																	3	2	
Saturdays	2	1	1	1	1	2	2																		2
Sundays	2	1	1	1	1	1	2																3	2	2

Legend:

1 Provide at least one through freeway lane open in direction of travel

2 Provide at least two adjacent through freeway lanes open in direction of travel

3 Provide at least three adjacent through freeway lanes open in direction of travel

Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

**Chart No. 17  
Freeway/Expressway Lane Requirements**

County: San Bernardino	Route/Direction: 10 W/B												PM: 23.5/24.0													
Closure Limits:																										
FROM HOUR TO HOUR	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays through Thursdays	1	1	1	1	2																		3	2	2	
Fridays	1	1	1	1	2																			3	2	
Saturdays	2	1	1	1	1	2	2																		2	
Sundays	2	2	1	1	1	1	2																	3	2	2

Legend:

- 1 Provide at least one through freeway lane open in direction of travel
- 2 Provide at least two adjacent through freeway lanes open in direction of travel
- 3 Provide at least three adjacent through freeway lanes open in direction of travel
- Work permitted within project right of way where shoulder or lane closure is not required.

REMARKS:

## ABANDON PIPE LINE

Existing pipelines, where shown on the plans to be abandoned, shall be abandoned in place or, at the option of the Contractor, the pipelines shall be removed and disposed of. Resulting openings into existing structures that are to remain in place shall be plugged with concrete conforming to the provisions in Section 90-10 "Minor Concrete," of the Standard Specifications. The concrete shall contain not less than 505 pounds of cementitious material per cubic yard.

Abandoning pipelines in place shall conform to the following:

1. Pipelines that intersect the side slopes shall be removed to a depth of not less than 3 feet measured normal to the plane of the finished side slope, before being abandoned.
2. Pipelines 12 inches in diameter and larger, shall, at the Contractor's option, be backfilled with either sand, controlled low strength material or slurry cement backfill conforming to the provisions in Section 19-3.062, "Slurry Cement Backfill," of the Standard Specifications by any method acceptable to the Engineer that completely fills the pipe. Sand backfill material shall be clean, free draining, and free from roots and other deleterious substances.
3. The ends of pipelines shall be securely closed by a 0.5-foot thick tight fitting plug or wall of commercial quality concrete.

Pipelines shall not be abandoned until their use is no longer required. The Contractor shall notify the Engineer in advance of any intended culvert or pipeline abandonment.

If the Contractor elects to remove and dispose of a pipeline which is specified to be abandoned, as provided herein, backfill specified for the pipe will be measured and paid for in the same manner as if the pipeline has been abandoned in place.

Backfill will be measured by the cubic yard determined from the dimensions of the pipelines to be abandoned.

Controlled low strength material and slurry cement backfill, if used at the Contractor's option, will be measured and paid for by the cubic yard as sand backfill.

Full compensation for concrete plugs, pipe removal, structure excavation, and backfill (including sand, controlled low strength material or slurry cement backfill) shall be considered as included in the contract unit price paid for abandon pipeline and no additional compensation will be allowed therefor.

## BRIDGE REMOVAL

Removing bridges or portions of bridges shall conform to the provisions in Section 15-4, "Bridge Removal," of the Standard Specifications and these special provisions.

Bridge removal (portion) shall consist of removing portions of existing structures as briefly described below:

### Location A:

Santa Ana River Bridge  
(Bridge No. 54-0471L/R)

The bridge removal (portion) work at this location consist of removing portions of bridge, culverts, channel lining and nosing, and slope paving, as shown on the plans.

### Location B:

I-215/I-10 Separation (Left)  
(Bridge No. 54-0479L)

The bridge removal (portion) work at this location consist of removing portions of existing wingwalls, overhang, concrete barrier and railing, and approach slabs as shown on the plans.

### Location C:

I-215/I-10 Separation (Right)  
(Bridge No. 54-0479R)

The bridge removal (portion) work at this location consist of removing portions of existing wingwalls, overhang, concrete barrier, and railing as shown on the plans.

### Location D:

Colton-Loma Linda Yard OH (LT)  
(Bridge No. 54-0482L)

The bridge removal (portion) work at this location consist of removing portions of existing abutments, overhang, and concrete barrier as shown on the plans.

### Location E:

Colton-Loma Linda Yard OH (RT)  
(Bridge No. 54-0482R)

The bridge removal (portion) work at this location consist of removing portions of existing abutments, footings, curtain walls, backwalls, overhang, concrete barrier, and approach slabs as shown on the plans.

Bridge removal shall consist of removing complete structures, as briefly described below:

### Location A:

Newport Ave OC  
(Bridge No. 54-0529)

The bridge removal work at this location consist of removing an existing CIP-RC bridge, as shown on the as-built plans.

### Location B:

Highgrove UP  
(Bridge No. 54-0518)

The bridge removal work at this location consists of removing an existing simply supported 4 span riveted steel through plate girder structure. The existing structure is 328 feet long by 37 feet wide and has reinforced concrete two column bents and reinforced concrete seated abutments with wing walls. Bent 3, in the median, is supported on concrete piling. The remainder of the supports are on spread footings. Bridge removal at Bent 3 shall include partial removal of footings as shown on the plans.

Location C:

Highgrove UP Shoofly  
(Bridge No. 54-1306)

The bridge removal work at this location consists of removing an existing simply supported 4 span bolted steel through plate girder structure. The existing structure is 371 feet long by 39 feet wide and has reinforced concrete three column bents and reinforced concrete seated abutments with wing walls and a retaining wall. Bridge removal at these locations shall include partial removal as shown on the plans.

Location D:

Grand Terrace UP  
(Bridge No. 54-0519)

The bridge removal work at this location consists of removing an existing 4 span simply supported riveted steel through plate girder (2) with reinforced concrete deck. The existing structure is 265 feet long by 23 feet wide and has reinforced concrete two column bents and reinforced concrete seated abutments with wing walls. All supports are on spread footings. There is an existing 14" diameter water pipe utility supported on the west side of west girder for the entire length of the bridge. The utility is to be removed and rerouted by others.

Location E:

Highgrove UP (Shoofly) Viaduct  
(Bridge No. 54-1306S)

The bridge removal work at this location consists of removing the constructed viaduct bridge, wingwalls and retaining walls to 3 feet below the lower elevation of OG or FG.

Removed materials that are not to be salvaged or used in the reconstruction shall become the property of the Contractor and shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

The Contractor shall submit a complete bridge removal plan to the Engineer for each bridge listed above, detailing procedures, sequences, and all features required to perform the removal in a safe and controlled manner.

The bridge removal plan shall include, but not be limited to, the following:

- A. The removal sequence, including staging of removal operations.
- B. Equipment locations on the structure during removal operations.
- C. Temporary support shoring or temporary bracing.
- D. Locations where work is to be performed over traffic, utilities, or railroad property.
- E. Details, locations, and types of protective covers to be used.
- F. Measures to assure that people, property, utilities, and improvements will not be endangered.
- G. Details and measures for preventing material, equipment, and debris from falling onto public traffic, or railroad property.

When protective covers are required for removal of portions of a bridge or when superstructure removal work on bridges is involved, the Contractor shall submit working drawings with design calculations to the Engineer for the proposed bridge removal plan, and the bridge removal plan shall be prepared and signed by an engineer who is registered as a Civil Engineer in the State of California. The design calculations shall be adequate to demonstrate the stability of the structure during all stages of the removal operations. Calculations shall be provided for each stage of bridge removal and shall include dead and live load values assumed in the design of protective covers. At a minimum, a stage will be considered to be removal of the deck, the soffit, or the girders, in any span; or walls, bent caps, or columns at support locations.

Temporary support shoring, temporary bracing, and protective covers, as required, shall be designed and constructed in conformance with the provisions in Section 51-1.06, "Falsework," of the Standard Specifications and these special provisions.

The assumed horizontal load to be resisted by the temporary support shoring and temporary bracing, for removal operations only, shall be the sum of the actual horizontal loads due to equipment, construction sequence, or other causes and an allowance for wind, but in no case shall the assumed horizontal load to be resisted in any direction be less than 5 percent of the total dead load of the structure to be removed.

The bridge removal plan shall conform to the provisions in Section 5-1.02, "Plans and Working Drawings," of the Standard Specifications. The number of sets of drawings, design calculations, and unless otherwise specified in the following table, the time for reviewing bridge removal plans shall be the same as specified for falsework working drawings in Section 51-1.06A, "Falsework Design and Drawings," of the Standard Specifications.

The time to be provided for the Engineer's review of the bridge removal plans for removing specific structures, or portions thereof, shall be as follows:

Structure or Portion of Structure	Review Time - Weeks
All RR Bridges	10
Non RR bridges	4

For bridge removal over railroad property, approval by the Engineer of the bridge removal plans will be contingent upon the drawings being satisfactory to the railroad company involved.

Temporary support shoring, temporary bracing, and protective covers over railroad property shall conform to the latest guidelines of the railroad company involved and shall provide the minimum clearances required under "Relations with Railroad Company" of these special provisions for the passage of railroad traffic.

For bridge removal work that requires the Contractor's registered engineer to prepare and sign the bridge removal plan, the Contractor's registered engineer shall be present at all times when bridge removal operations are in progress. The Contractor's registered engineer shall inspect the bridge removal operation and report in writing on a daily basis the progress of the operation and the status of the remaining structure. A copy of the daily report shall be available at the site of the work at all times. Should an unplanned event occur or the bridge operation deviate from the approved bridge removal plan, the Contractor's registered engineer shall submit immediately to the Engineer for approval the procedure of operation proposed to correct or remedy the occurrence.

**10-1.52 HOT MIX ASPHALT TYPE A - BOND BREAKER**

**GENERAL**

**Summary**

This work includes producing and placing hot mix asphalt Type A - Bond Breaker using the Standard process.

HMA Type A - Bond Breaker is to be placed between Jointed Plain Concrete Pavement (JPCP) and Lean Concrete Base (LCB). Thickness of HMA Type A - Bond Breaker is 0.10 feet.

HMA Type A - Bond Breaker must comply with the requirements for HMA Type A of Section 39, "Hot Mix Asphalt," of the Standard Specifications.

**QUALITY CONTROL TESTING**

Perform sampling and testing at the specified frequency for the following quality characteristics:

**HMA Type A – Bond Breaker Minimum Quality Control**

Quality Characteristic	Test Method	Minimum Sampling and Testing Frequency	Requirement
Aggregate gradation <sup>a</sup>	CT 202	1 per 750 tons and any remaining part at the end of the project	JMF ± Tolerance <sup>b</sup>
Sand equivalent (min.) <sup>c, g</sup>	CT 217		47
Asphalt binder content	CT 379 or 382		JMF ± 0.45%
HMA moisture content (max.)	CT 370	1 per 2500 tons but not less than 1 per paving day	1.0%
Percent of maximum theoretical density (minimum) <sup>d, e</sup>	Quality control plan	2 per business day (min.)	96%
Aggregate moisture content at continuous mixing plants and RAP moisture content at continuous mixing plants and batch mixing plants <sup>f</sup>	CT 226 or CT 370	2 per day during production	--
Percent of crushed particles coarse aggregate (% min.) <sup>g</sup> One fractured face Two fractured faces Fine aggregate (% min.) <sup>g</sup> (Passing No. 4 sieve and retained on No. 8 sieve.) One fractured face	CT 205	As necessary and designated in the QCP. At least once per project	90
			75
			70
Los Angeles Rattler (% max.) <sup>g</sup> Loss at 500 rev.	CT 211		45

Notes:

<sup>a</sup> Determine combined aggregate gradation containing RAP under Laboratory Procedure LP-9.

<sup>b</sup> The tolerances must comply with the allowable tolerances in Section 39-1.02E, "Aggregate."

<sup>c</sup> Report the average of 3 tests from a single split sample.

<sup>d</sup> Required if the total paved thickness is at least 0.15-foot.

<sup>e</sup> Determine maximum theoretical density (California Test 309) at the frequency specified for Test Maximum Density under California Test 375, Part 5.D.

<sup>f</sup> For adjusting the plant controller at the HMA plant.

<sup>g</sup> The point and method of sampling will be agreed upon before aggregate production begins. Perform this test before lime treatment.

Apply white pigmented curing compound to the finished surface of the HMA Type A (Bond Breaker) within 2 days of placing the portland cement concrete pavement. Pigmented curing compound must conform to the requirements of ASTM Designation C 309, Type 2, Class A. Curing compound must be applied in 2 separate applications to the area to be surfaced with portland cement concrete pavement. Apply curing compound at the rate of 1 gallon per 150 square feet.

**ENGINEER'S ACCEPTANCE**

The Engineer samples for acceptance testing, and tests for:

<b>HMA Type A – Bond Breaker Acceptance</b>		
Quality Characteristic	Test Method	Requirement
Aggregate gradation <sup>a</sup>	CT 202	JMF ± Tolerance <sup>b</sup>
Sand equivalent (min.) <sup>c, f</sup>	CT 217	47
Asphalt binder content	CT 379 or 382	JMF ± 0.45%
HMA moisture content (max.)	CT 370	1.0%
Percent of maximum theoretical density (minimum) <sup>d, e</sup>	Quality control plan	96%
Percent of crushed particles coarse aggregate (% min.) <sup>f</sup>	CT 205	90
One fractured face		75
Two fractured faces		
Fine aggregate (% min.) <sup>f</sup> (Passing No. 4 sieve and retained on No. 8 sieve.)		70
One fractured face		
Los Angeles Rattler (% max.) <sup>f</sup> Loss at 500 rev.	CT 211	45

Notes:

<sup>a</sup> The Engineer determines combined aggregate gradation containing RAP under Laboratory Procedure LP-9.

<sup>b</sup> The tolerances must comply with the allowable tolerances in Section 39-1.02E, "Aggregate."

<sup>c</sup> The Engineer reports the average of 3 tests from a single split sample.

<sup>d</sup> Required if the total paved thickness is at least 0.15-foot.

<sup>e</sup> The Engineer determines maximum theoretical density (California Test 309) at the frequency specified for Test Maximum Density under California Test 375, Part 5.D.

<sup>f</sup> The point and method of sampling will be agreed upon before aggregate production begins. Perform this test before lime treatment.

**MATERIALS**

**Asphalt Binder**

The grade of asphalt binder mixed with aggregate for HMA Type A - Bond Breaker must be PG 64-16.

**Aggregate**

The aggregate for HMA Type A – Bond Breaker must comply with the 3/8-inch grading.

**Asphalt Binder Content**

Increase the amount of asphalt binder mixed with aggregate for HMA Type A - Bond Breaker by 1.0 percent by weight of the dry aggregate over the optimum binder content (OBC) determined for use in HMA Type A under California Test 367.

**Job Mix Formula and HMA Type A – Bond Breaker Evaluation**

Prior to the 1.0 percent increase in asphalt binder, HMA Type A used for HMA Type A - Bond Breaker must conform to the requirements of Hot Mix Asphalt Mix Design Requirements.

Verification is testing for compliance with the specifications for:

1. Aggregate quality
2. HMA quality specified in the table HMA Type A - Bond Breaker Acceptance except percent of maximum theoretical density

#### **CONSTRUCTION**

##### **Tack Coat**

Apply tack coat for the HMA Type A – Bond Breaker to the Lean Concrete Base at the same rate as HMA over existing PCC pavement per Section 39-1.09.

##### **Antistrip Treatment**

Treat HMA Type A-Bond Breaker with the same antistrip treatment used for HMA Type A.

#### **PAYMENT**

HMA Type A - Bond Breaker will be measured and paid for in the same manner specified for HMA in conformance with the requirements of Section 39-5, "Measurement and Payment," of the Standard Specifications.

Full compensation for the additional 1 percent of asphalt binder used in HMA Type A - Bond Breaker and for furnishing and applying white pigmented curing compound to the surface of the HMA Type A - Bond Breaker is included in the contract price paid per ton for HMA Type A - Bond Breaker as designated in the Engineer's Estimate and no separate payment will be made therefor.

## BID ITEM LIST

08-0M94U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	023498	WATER METER (TYPE 1A)	EA	4		
102	023499	WATER METER (TYPE 1B)	EA	2		
103	023500	WATER METER (TYPE 1C)	EA	1		
104	023501	WATER METER (TYPE 2A)	EA	2		
105	208762	12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	LF	1,870		
106	260203	CLASS 2 AGGREGATE BASE (CY)	CY	150,000		
107	260210	AGGREGATE BASE (APPROACH SLAB)	CY	89		
108	280000	LEAN CONCRETE BASE	CY	2,170		
109	390131	HOT MIX ASPHALT	TON	141,000		
110	390140	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	69,300		
111	023502	HOT MIX ASPHALT (TYPE A BOND BREAKER)	TON	1,340		
112	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
113	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	1,140		
114	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	19,200		
115	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	2,630		
116	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	1,900		
117	395000	LIQUID ASPHALT (PRIME COAT)	TON	370		
118	397005	TACK COAT	TON	200		
119	023503	JOINTED PLAIN CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	CY	200		
120	401050	JOINTED PLAIN CONCRETE PAVEMENT	CY	4,340		

**BID ITEM LIST**  
08-0M94U4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
334	023550	MODIFY COMMUNICATION SYSTEM	LS	LUMP SUM	LUMP SUM	
335	BLANK					
336	157555	BRIDGE REMOVAL, LOCATION E	LS	LUMP SUM	LUMP SUM	
337	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID  
FOR ITEMS:**

\$ \_\_\_\_\_

**TOTAL  
BID  
FOR  
TIME:**

$$\frac{\text{WORKING DAYS BID (Not to exceed 620 Days)}}{\text{X}} \times \frac{\$35,306.00}{\text{COST PER DAY}} = \$ \text{_____}$$

**TOTAL BID FOR COMPARISON (COST PLUS TIME):**

\$ \_\_\_\_\_