

**NOTE:**

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

- ① 38.82' Rt "C" 517+05.00  
END TRANSITION RAILING (TYPE WB)  
END VEGETATION CONTROL (MINOR Conc)
- ② "C" 516+80.00  
END MBGR  
Beg TRANSITION RAILING (TYPE WB)

**CURVE DATA**

No.	O	R	Δ	T	L
4		2899.99'	2°25'18"	61.29'	122.57'
5		145.00'	174°5'19"	2808.27'	440.57'
6		6455.21'	2°21'34"	132.93'	265.82'
7		5554.99'	5°15'31"	255.10'	509.84'
8		300.00'	42°5'07"	115.42'	220.36'
13		5480.00'	51°48'13"	2661.16'	4954.71'

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Orca	5,74	9.3/10.0, 0.0/0.2	23	515

03-14-12  
REGISTERED CIVIL ENGINEER DATE

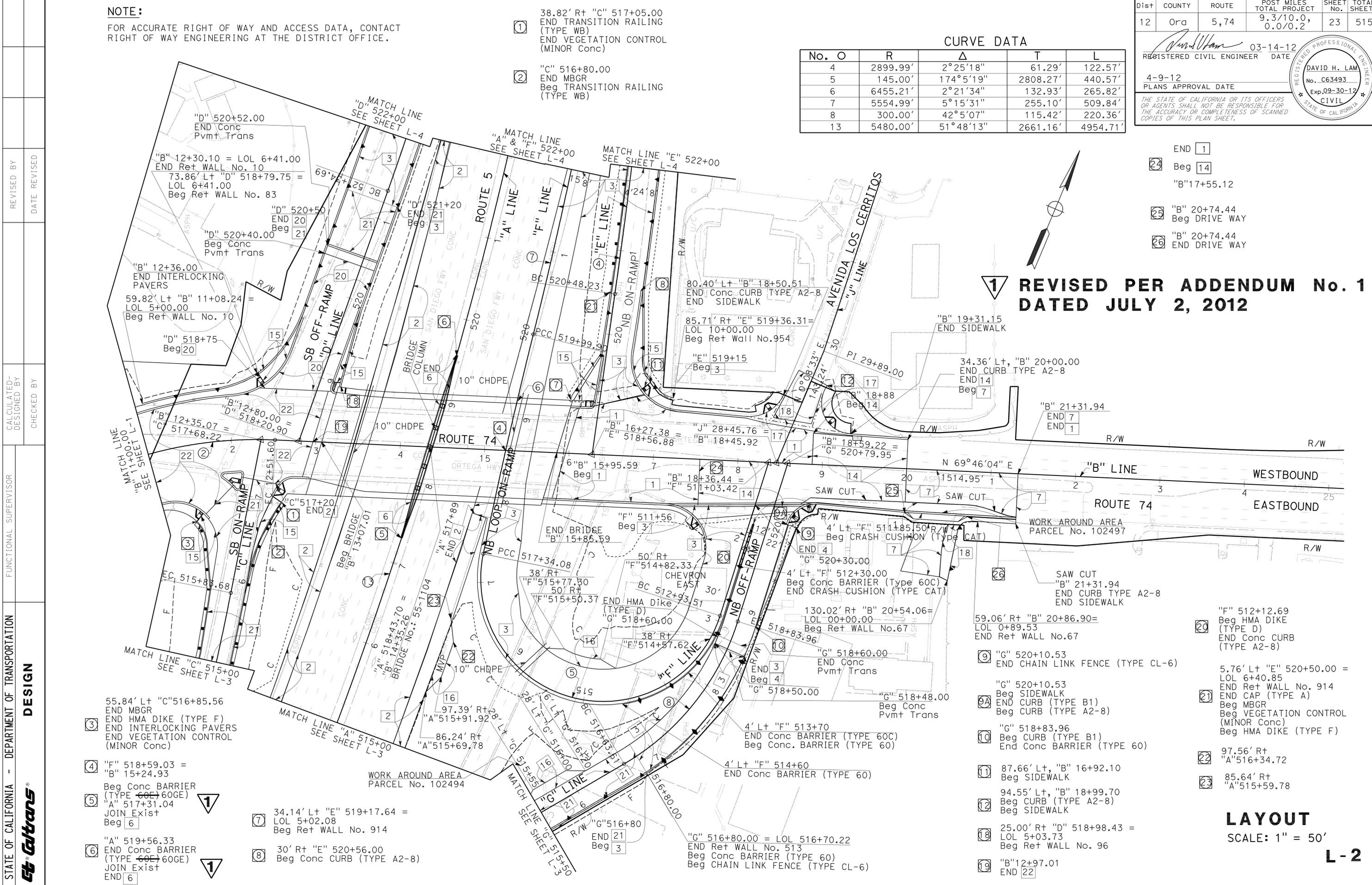
4-9-12  
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
DAVID H. LAM  
No. C63493  
Exp. 09-30-12  
CIVIL

- END ①
- ② Beg ⑭
- "B" 17+55.12
- ③ "B" 20+74.44  
Beg DRIVE WAY
- ④ "B" 20+74.44  
END DRIVE WAY

**1 REVISED PER ADDENDUM No. 1 DATED JULY 2, 2012**



REVISOR: [ ] DATE: [ ]

CALCULATED/DESIGNED BY: [ ] CHECKED BY: [ ]

FUNCTIONAL SUPERVISOR: [ ]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN

Et Caltrans

- ③ 55.84' Lt "C" 516+85.56  
END MBGR  
END HMA DIKE (TYPE F)  
END INTERLOCKING PAVERS  
END VEGETATION CONTROL (MINOR Conc)
- ④ "F" 518+59.03 =  
"B" 15+24.93  
Beg Conc BARRIER (TYPE 60C) (GOGE)
- ⑤ "A" 517+31.04  
JOIN Exist  
Beg ⑥
- ⑥ "A" 519+56.33  
END Conc BARRIER (TYPE 60C) (GOGE)  
JOIN Exist  
END ⑥
- ⑦ 34.14' Lt "E" 519+17.64 =  
LOL 5+02.08  
Beg Ret WALL No. 914
- ⑧ 30' Rt "E" 520+56.00  
Beg Conc CURB (TYPE A2-8)

- ⑨ "G" 520+10.53  
END CHAIN LINK FENCE (TYPE CL-6)
- ⑩ "G" 518+83.96  
Beg CURB (TYPE B1)  
End Conc BARRIER (TYPE 60)
- ⑪ 87.66' Lt, "B" 16+92.10  
Beg SIDEWALK
- ⑫ 94.55' Lt, "B" 18+99.70  
Beg CURB (TYPE A2-8)  
Beg SIDEWALK
- ⑬ 25.00' Rt "D" 518+98.43 =  
LOL 5+03.73  
Beg Ret WALL No. 96
- ⑭ "B" 12+97.01  
END ⑭
- ⑮ 5.76' Lt "E" 520+50.00 =  
LOL 6+40.85  
END Ret WALL No. 914  
END CAP (TYPE A)  
Beg MBGR  
Beg VEGETATION CONTROL (MINOR Conc)  
Beg HMA DIKE (TYPE F)
- ⑯ 97.56' Rt  
"A" 516+34.72
- ⑰ 85.64' Rt  
"A" 515+59.78

**LAYOUT**  
SCALE: 1" = 50'  
**L-2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109A	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

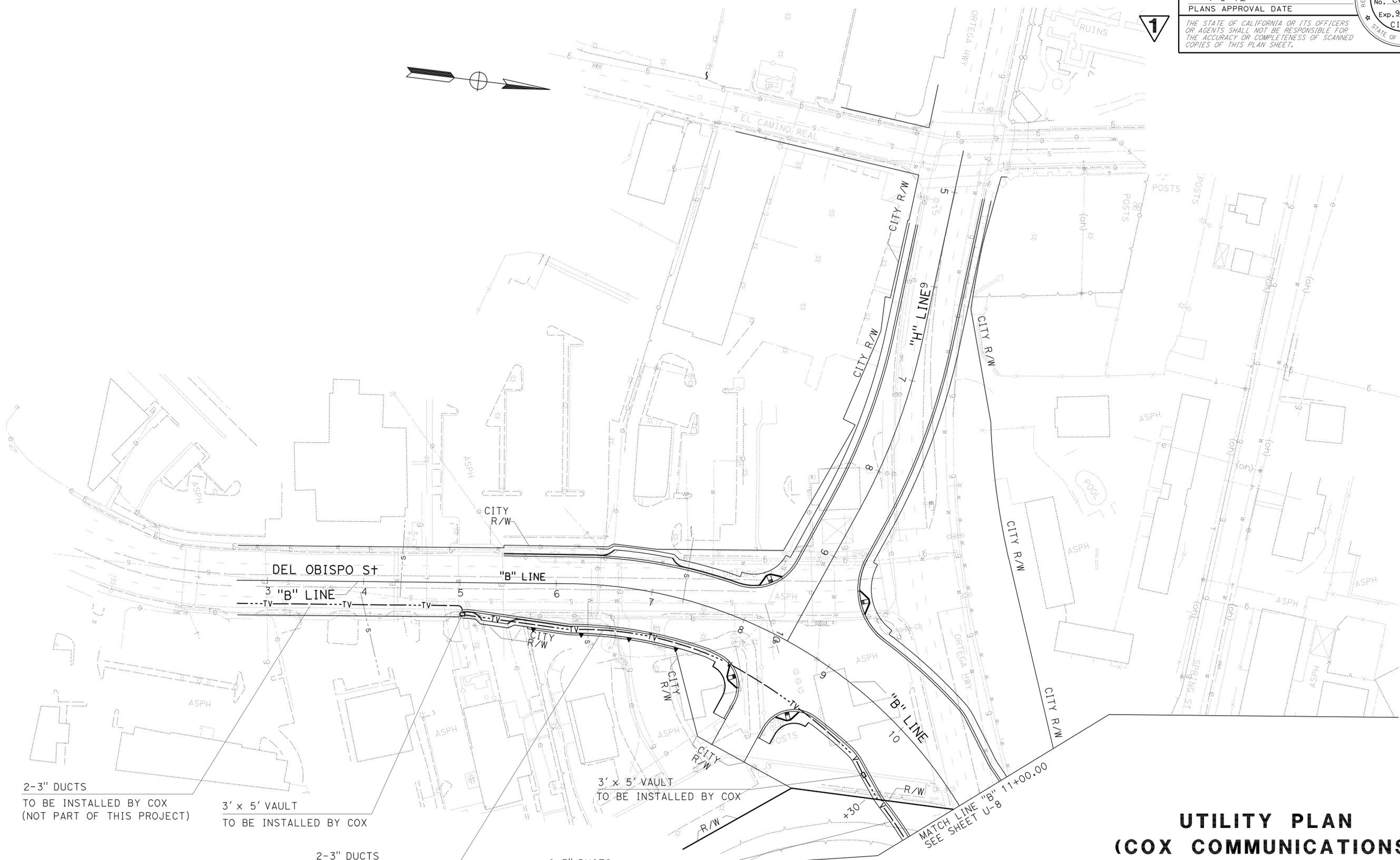
REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**

1. FOR ACCURATE RIGHT OF WAY ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGN
CHRISTOPHER LE		
CALCULATED/DESIGNED BY	CHECKED BY	
MINH PHAM	KEVIN PHAM	
REVISED BY	DATE REVISED	
MINH PHAM	06/2012	



**UTILITY PLAN  
(COX COMMUNICATIONS)**

SCALE: 1" = 50'

**U-7**

**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
APPROVED UTILITY INFORMATION ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR: CHRISTOPHER LE  
 CHECKED BY: KEVIN PHAM  
 DESIGNED BY: MINH PHAM  
 REVISIONS:  
 06/2012: MINH PHAM  
 DATE REVISED: 06/2012

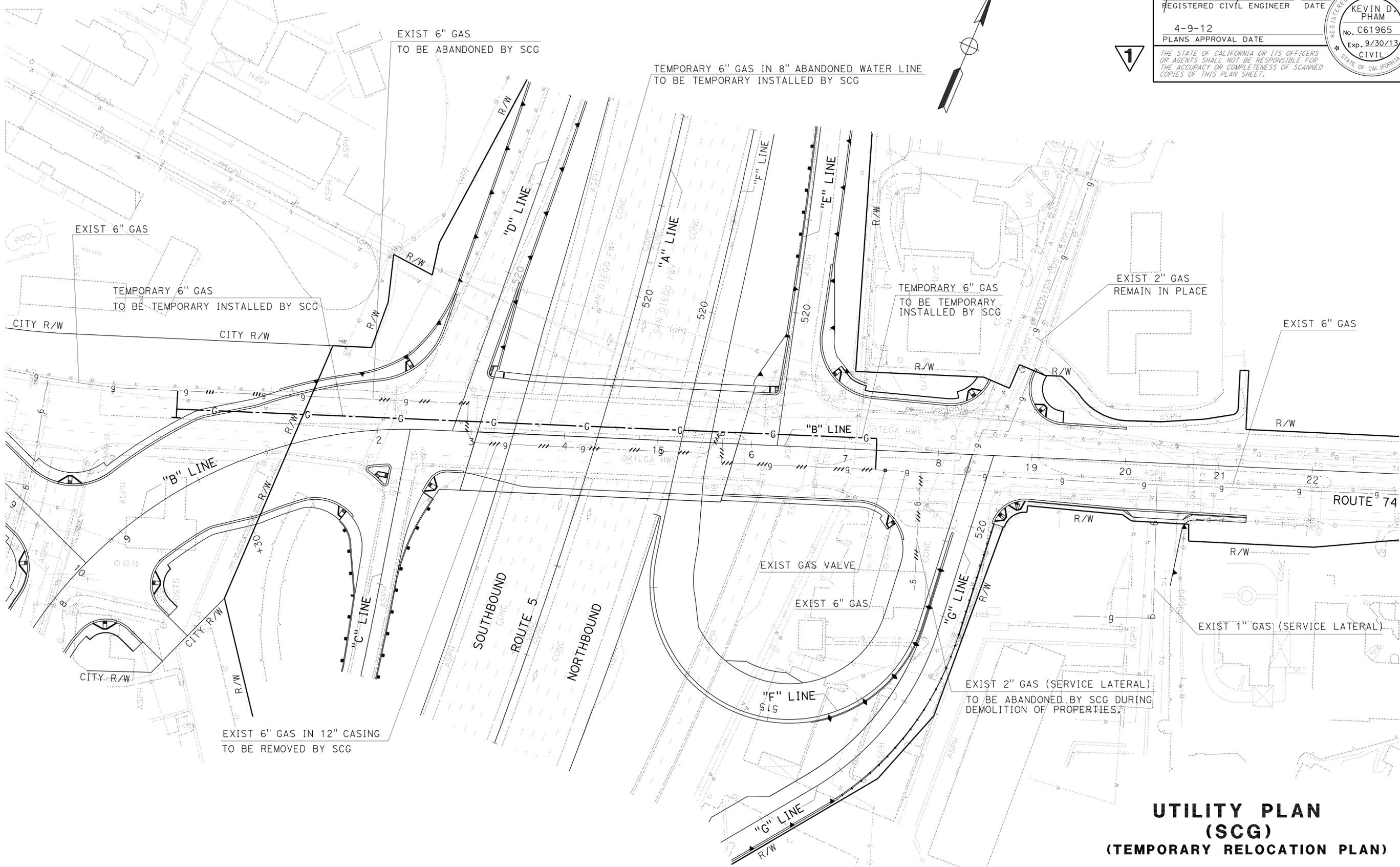
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
 CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109C	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
 APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (SCG)  
 (TEMPORARY RELOCATION PLAN)**

SCALE: 1" = 50' U-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109D	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

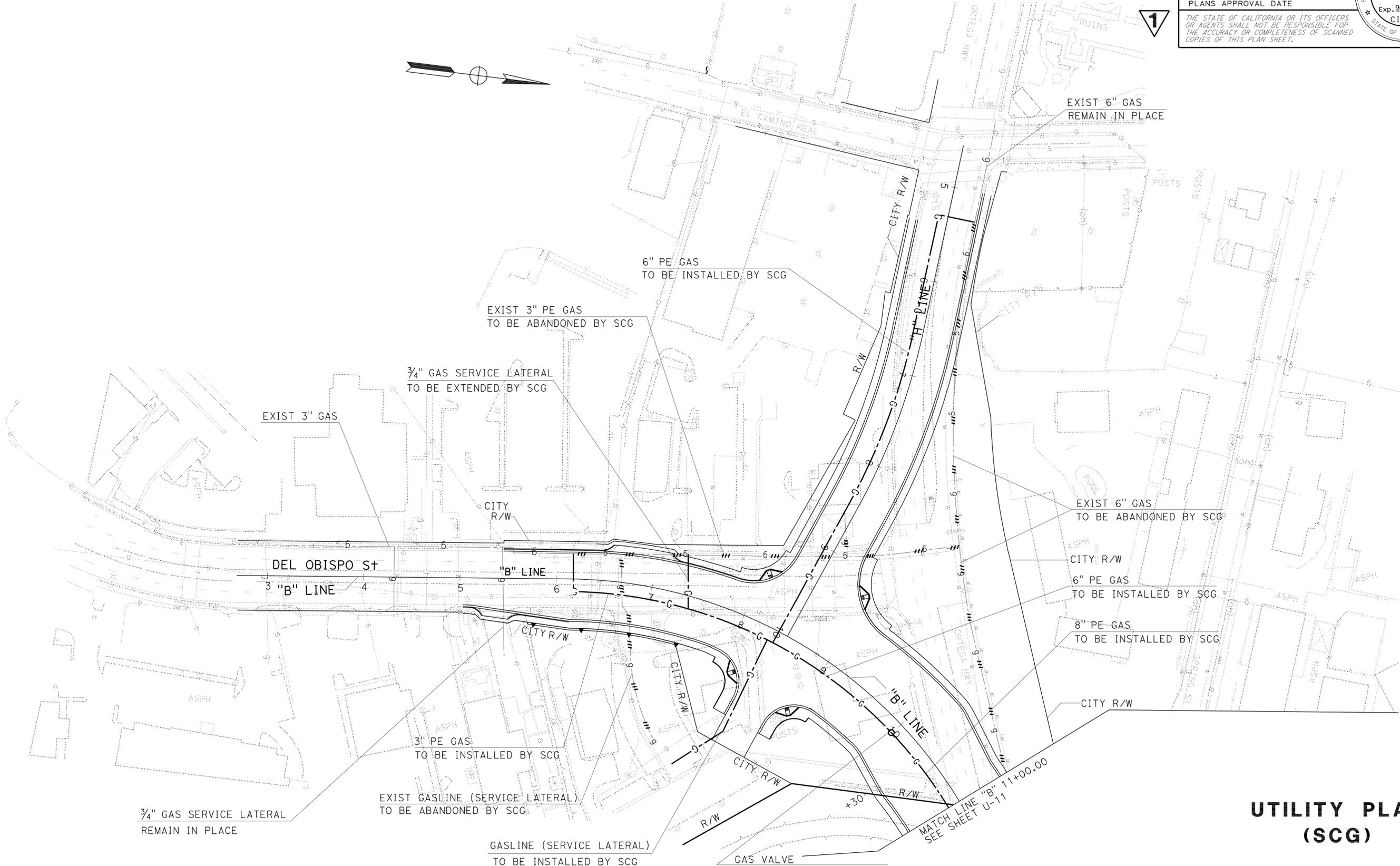
REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS  
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**NOTE:**

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	CHRISTOPHER LE
CALCULATED/DESIGNED BY	CHECKED BY
MINH PHAM	KEVIN PHAM
REVISED BY	DATE REVISED
MINH PHAM	06/2012



**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
 APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (SCG)**

SCALE: 1" = 50' **U-10**

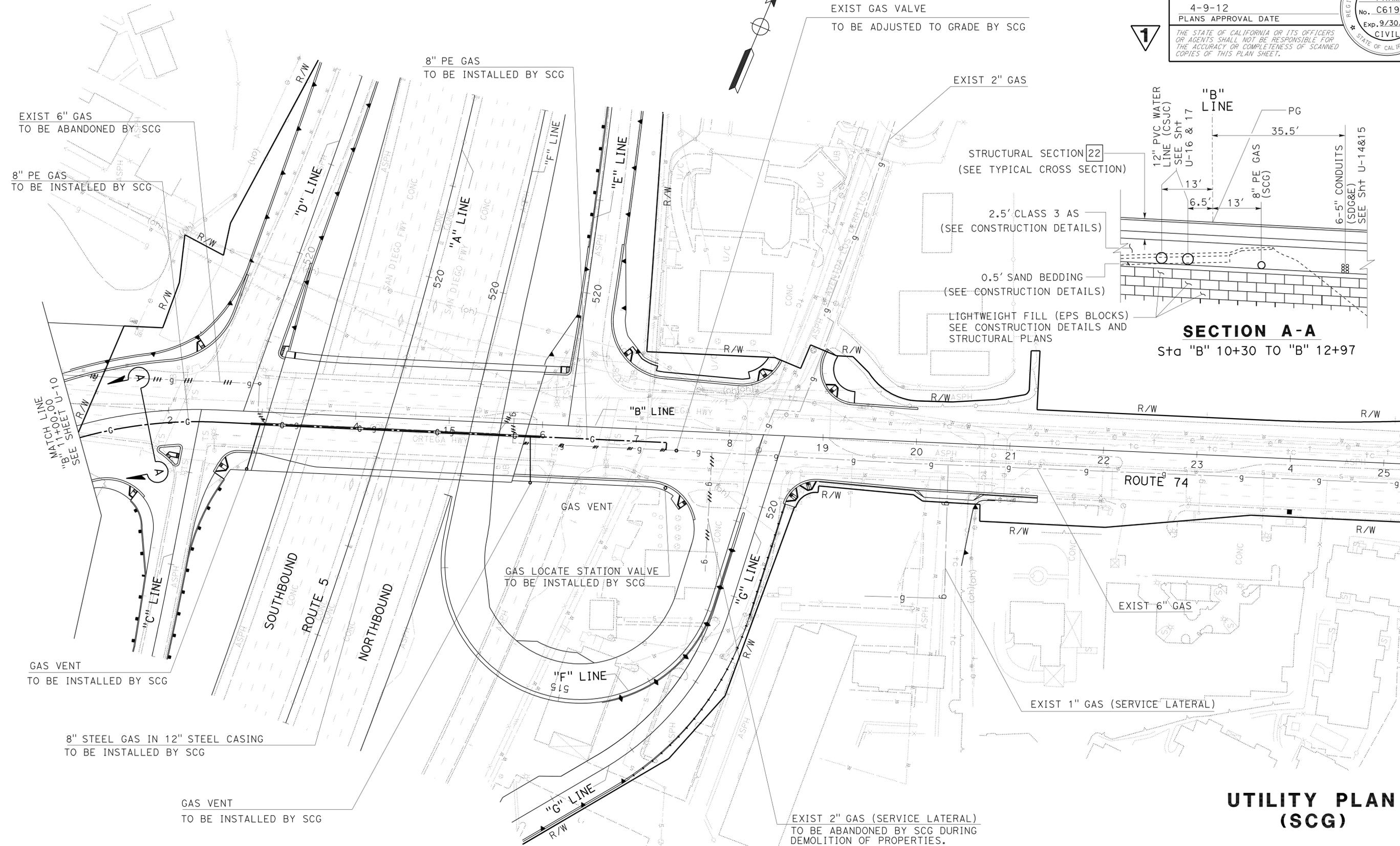
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: CHRISTOPHER LE  
 CHECKED BY: KEVIN PHAM  
 DESIGNED BY: MINH PHAM  
 REVISIONS:  
 REVISED BY: MINH PHAM DATE: 06/2012  
 REVISIONS:  
 REVISED BY: MINH PHAM DATE: 06/2012

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109E	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.  
 REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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 FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
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**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
 APPROVED UTILITY INFORMATION ONLY

SCALE: 1" = 50' **U-11**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109F	515

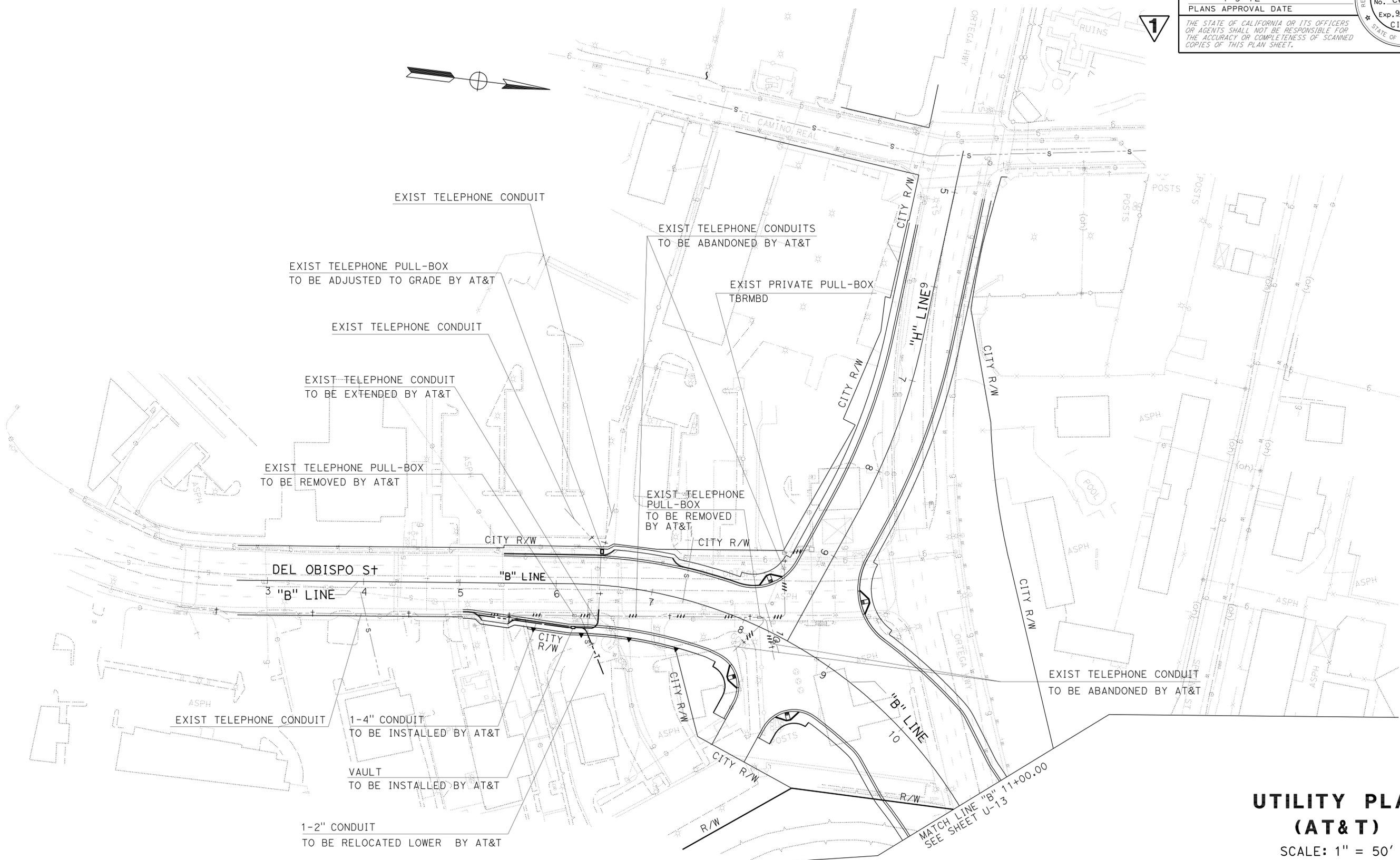
Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

**NOTE:**  
FOR ACCURATE RIGHT OF WAY ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	CHRISTOPHER LE
CALCULATED/DESIGNED BY	CHECKED BY
MINH PHAM	KEVIN PHAM
REVISED BY	DATE REVISED
MINH PHAM	06/2012



**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (AT&T)**  
SCALE: 1" = 50'

**U-12**

LAST REVISION DATE PLOTTED => 29-JUN-2012    06-21-12    TIME PLOTTED => 06:46



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109H	515

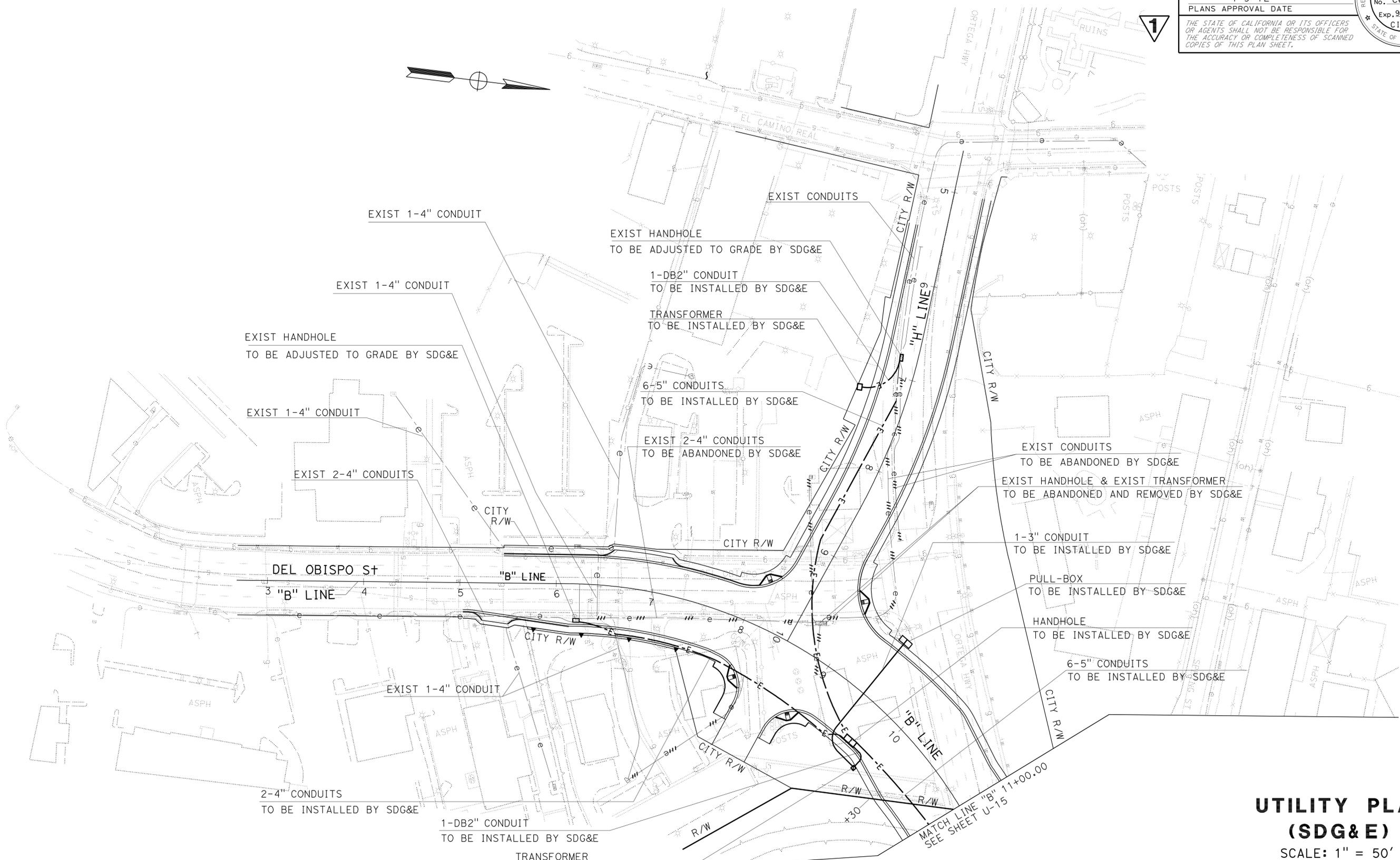
Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

**NOTE:**  
FOR ACCURATE RIGHT OF WAY ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	CHRISTOPHER LE
CALCULATED/DESIGNED BY	CHECKED BY
MINH PHAM	KEVIN PHAM
REVISED BY	DATE REVISED
MINH PHAM	06/2012



**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN  
(SDG&E)**  
SCALE: 1" = 50'  
**U-14**

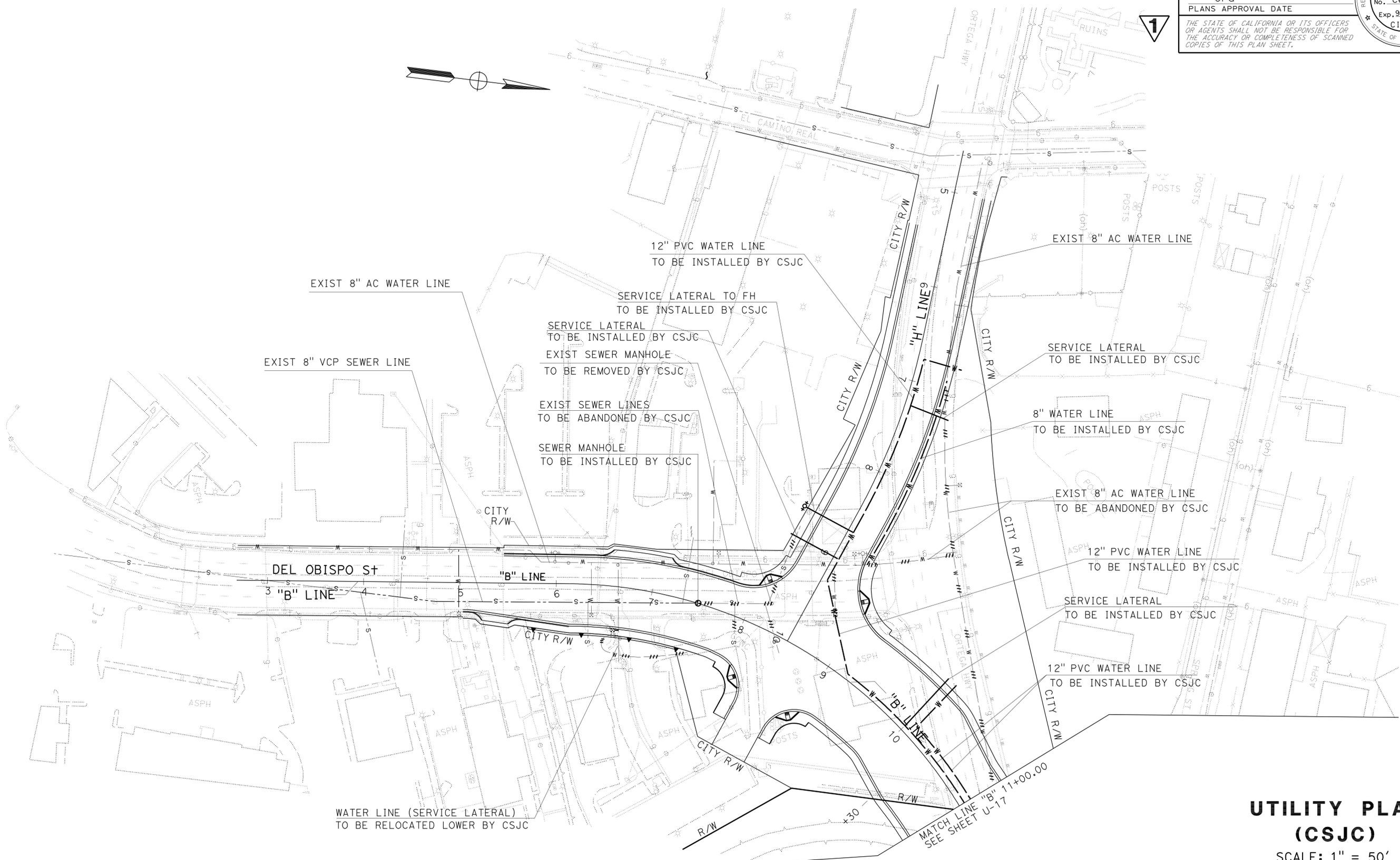
LAST REVISION DATE PLOTTED => 29-JUN-2012    06-21-12    TIME PLOTTED => 06:46



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109K	515
Kevin D. Pham 06/28/12 REGISTERED CIVIL ENGINEER DATE					
Ora			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

**NOTE:**  
FOR ACCURATE RIGHT OF WAY ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	CHRISTOPHER LE
CALCULATED/DESIGNED BY	CHECKED BY
MINH PHAM	KEVIN PHAM
REVISED BY	DATE REVISED
MINH PHAM	06/2012



**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (CSJC)**  
SCALE: 1" = 50'  
**U-16**

LAST REVISION DATE PLOTTED => 29-JUN-2012 06:21:12 TIME PLOTTED => 06:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	CHRISTOPHER LE
CALCULATED/DESIGNED BY	CHECKED BY
MINH PHAM	KEVIN PHAM
REVISED BY	DATE REVISED
MINH PHAM	06/2012

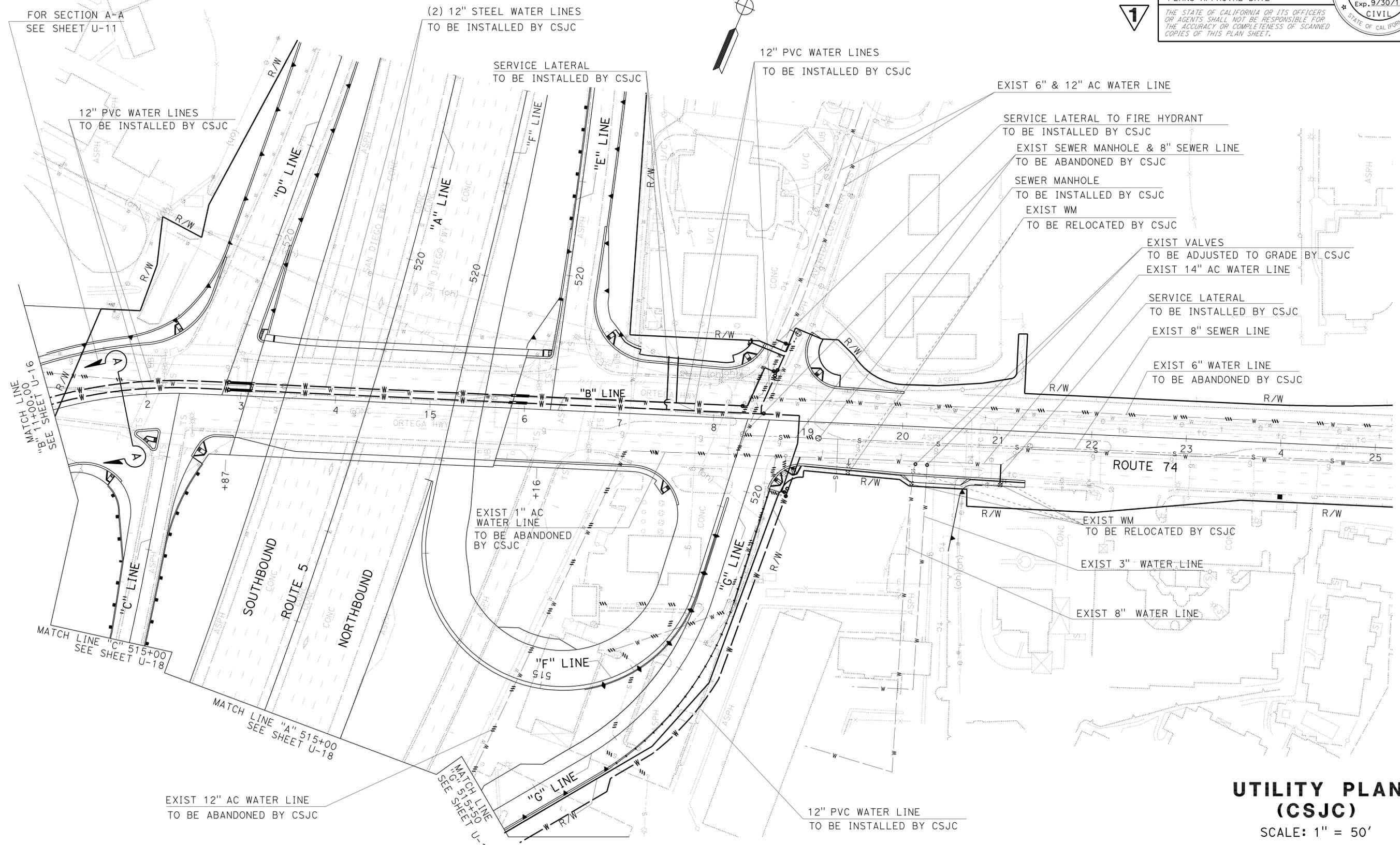
**NOTE:**  
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0, 0.0/0.2	109L	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA



**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (CSJC)**  
SCALE: 1" = 50'  
**U-17**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN

FUNCTIONAL SUPERVISOR: CHRISTOPHER LE  
 CHECKED BY: KEVIN PHAM  
 DESIGNED BY: MINH PHAM  
 REVISIONS: MINH PHAM 06/2012

**NOTE:**

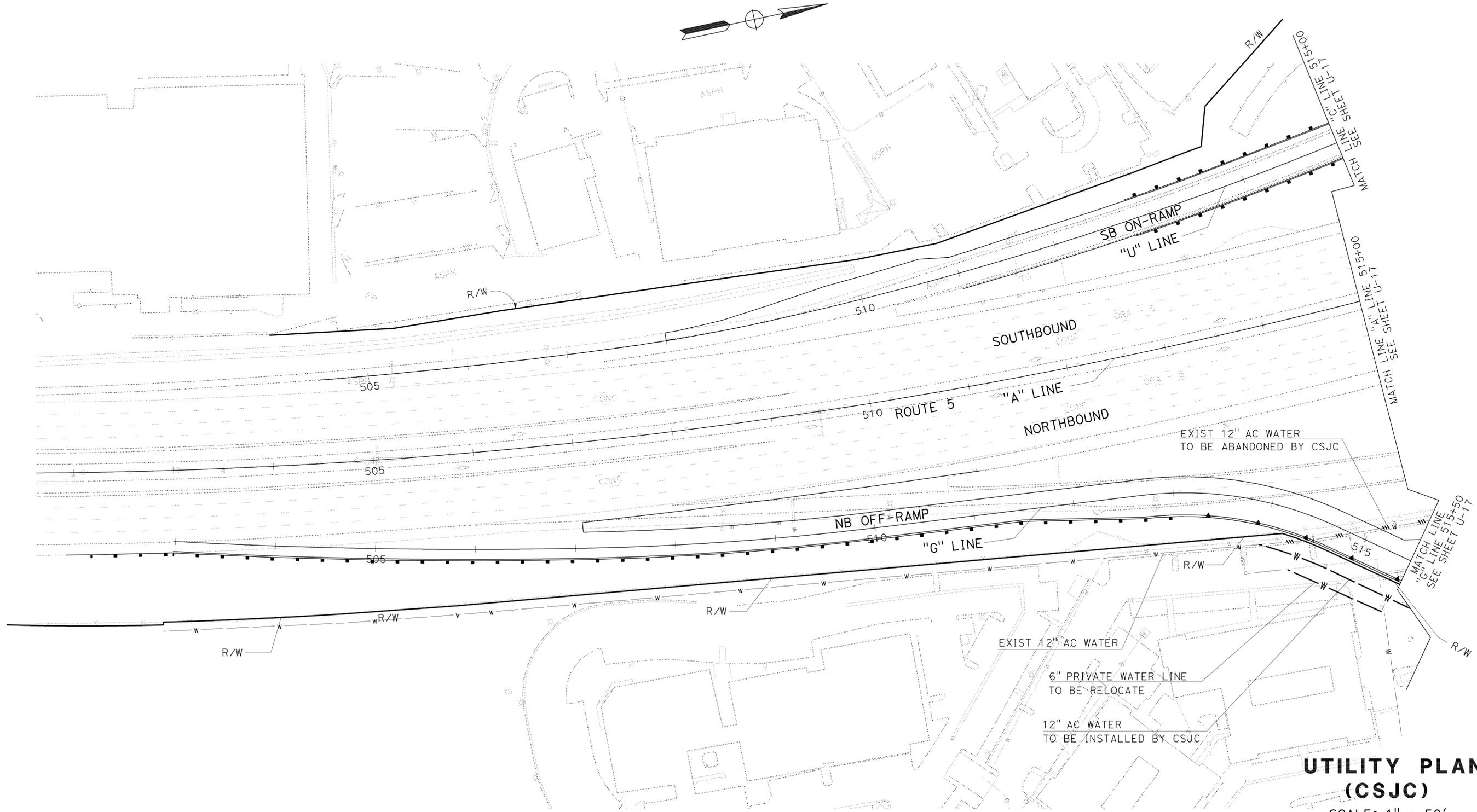
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,  
 CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0; 0.0/0.2	109M	515

Kevin D. Pham 06/28/12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 KEVIN D. PHAM  
 No. C61965  
 Exp. 9/30/13  
 CIVIL  
 STATE OF CALIFORNIA

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**1** ADDED PER ADDENDUM No. 1 DATED JULY 2, 2012  
 APPROVED UTILITY INFORMATION ONLY

**UTILITY PLAN (CSJC)**

SCALE: 1" = 50'

**U-18**

LAST REVISION DATE PLOTTED => 29-JUN-2012 06-21-12 TIME PLOTTED => 06:47



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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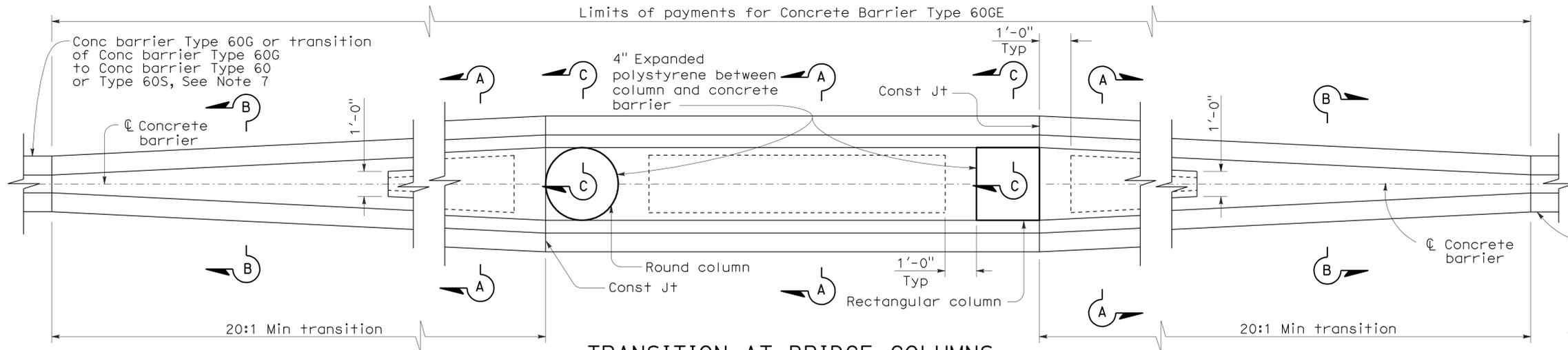
**Randell D. Hiatt**  
REGISTERED CIVIL ENGINEER

May 20, 2011  
PLANS APPROVAL DATE

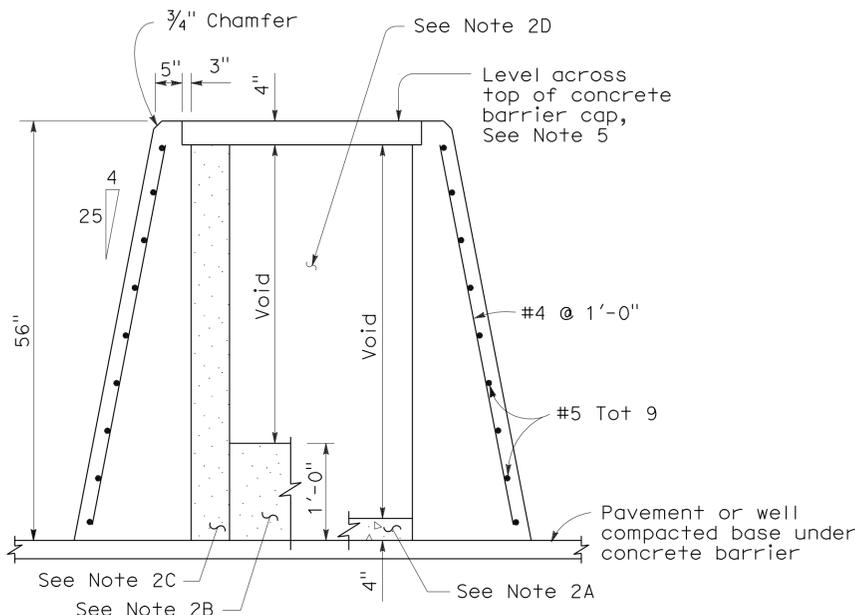
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To accompany plans dated 4-9-12

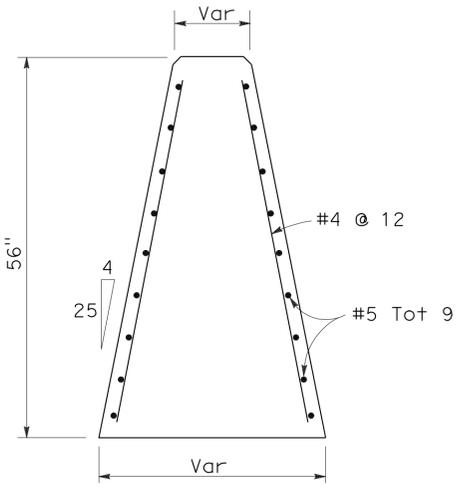
REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA



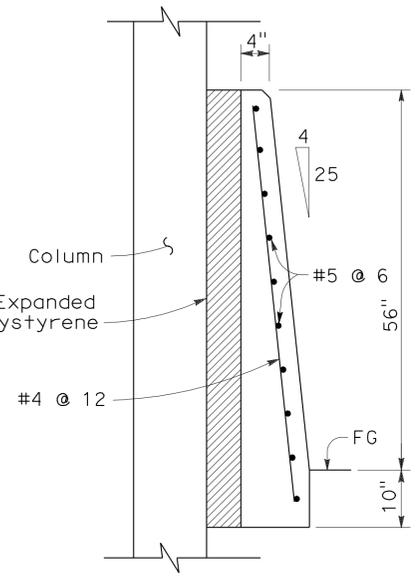
**TRANSITION AT BRIDGE COLUMNS**  
CONCRETE BARRIER TYPE 60GE



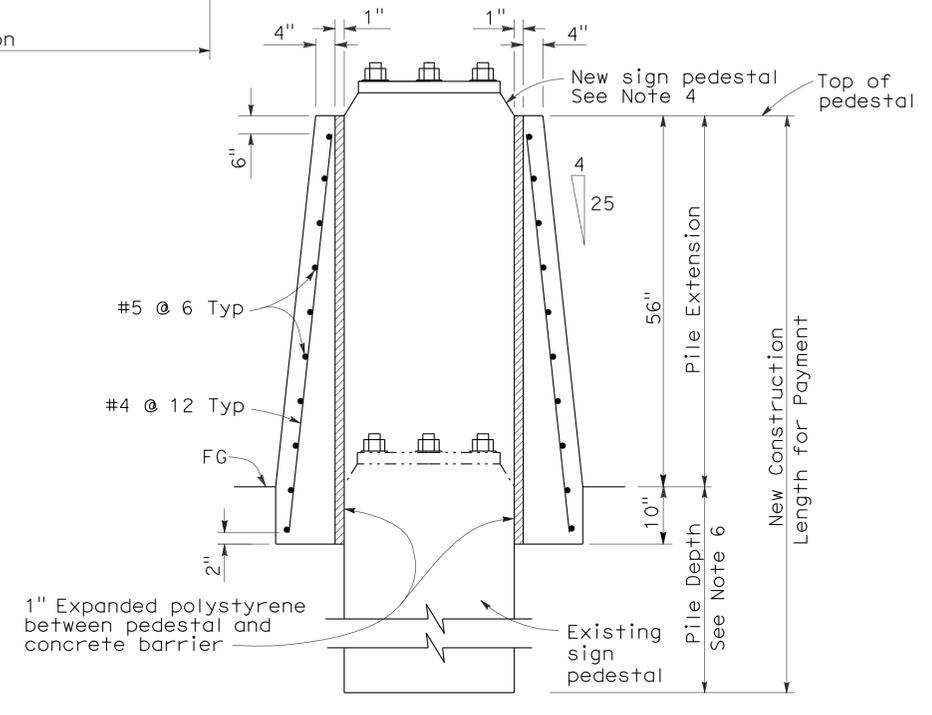
SECTION A-A



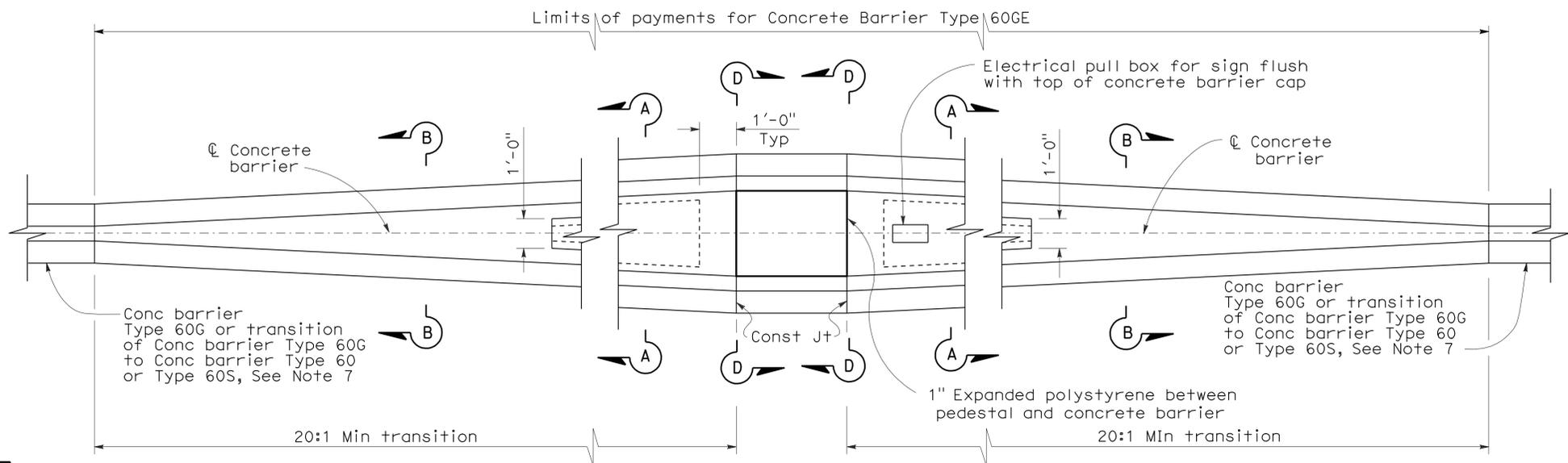
SECTION B-B



SECTION C-C



SECTION D-D



**TRANSITION AT SIGN PEDESTAL**  
CONCRETE BARRIER TYPE 60GE

- NOTES:**
- See Standard Plan A76D for Concrete Barrier Type 60G.
  - Contractor options for fill between concrete barrier walls:
    - Place 4" PCC at base between concrete barrier walls.
    - Place 1'-0" of granular material at base between walls.
    - Place granular material from base to bottom of 4" cap.
    - Monolithic concrete with foam blockouts is not permitted.
  - Reinforcing steel shall extend continuous through construction joints.
  - See "Overhead Sign" plans for sign pedestal elevations on new construction.
  - Adjust height of concrete barrier wall on low side of offset or superelevated roadways to provide level grade across top of concrete barrier cap.
  - See Overhead Signs Standard Plan Pile Foundation Tables.
  - See Standard Plan A76E for concrete barrier transitions.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**CONCRETE BARRIER TYPE 60GE**  
NO SCALE

RSP A76F DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A76F  
DATED MAY 1, 2006 - PAGE 34 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP A76F**

**1 REVISED PER ADDENDUM No. 1 DATED JULY 2, 2012**

2006 REVISED STANDARD PLAN RSP A76F

SPACING MEASURED PERPENDICULAR TO "B" LINE						
LOCATION	A	B	C	D	E	F
☉ Abut 1	8'-4 <sup>3</sup> / <sub>8</sub> "	10'-3"	10'-3"	10'-3"	10'-3"	10'-3"
☉ Bent 2	7'-6"	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"
☉ Abut 3	7'-6"	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"

**NOTES:**

- ① Concrete Barrier, Type 26 (Mod).
- ② Chain Link Railing Type 7 (Mod).
- ③ 2'-0" W X 2'-0" H utility openings for CSJC for 2- 12" Ø Water Lines in 20" Ø Casings, see Road Plans.
- ④ 1'-6"x1'-6" utility opening for SO. Cal. Gas Co. for 8" Ø Gas Main in 12" Casing, see Road Plans. Utility opening (SO. Cal. Gas Co.) 8" Ø Gas Main in 12" Casing, Abut 1 & 3: 1'-11" W x 1'-9" H; Bent 2: 1'-5" W x 1'-5" H, see Road Plans.
- ⑤ Electrical conduits, see Road Plans.
- ⑥ 2- 3" conduits, see Road Plans.
- ⑦ Future Utility Opening, 2'-0" W X 2'-0" H (Bent 2).
- ⑧ Utility opening (SDG&E): Abut 1 & 3: 2'-2" W X 2'-6" H Bent 2: 1'-8" W X 2'-6" H, see Road Plans.
- ⑨ For additional longitudinal reinforcement, see "GIRDER REINFORCEMENT" sheet.
- ⑩ Loop detectors to be placed in the deck prior to concrete pour. For layout, see Road Plans.

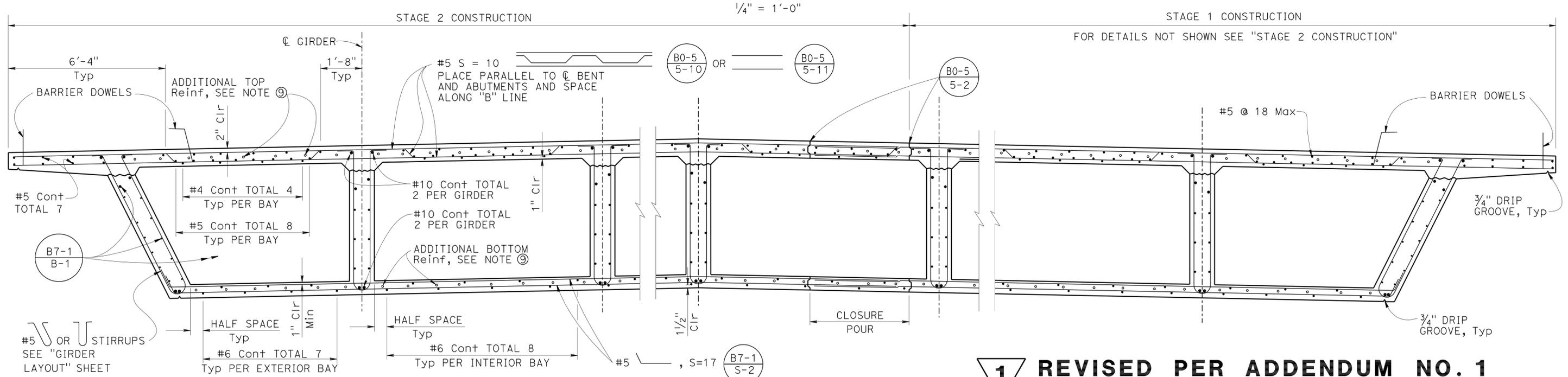
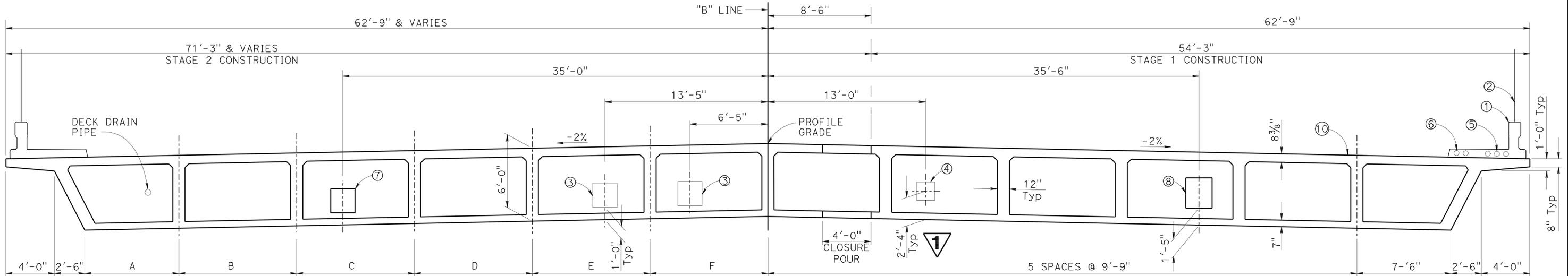
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Orca	5,74	9.3/10.0, 0.0/0.2	432	515

Charles Lomicka 03-14-12  
REGISTERED CIVIL ENGINEER DATE

4-9-12  
PLANS APPROVAL DATE

CHARLES LOMICKA  
No. C 71172  
Exp. 6/30/13  
CIVIL  
STATE OF CALIFORNIA

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NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

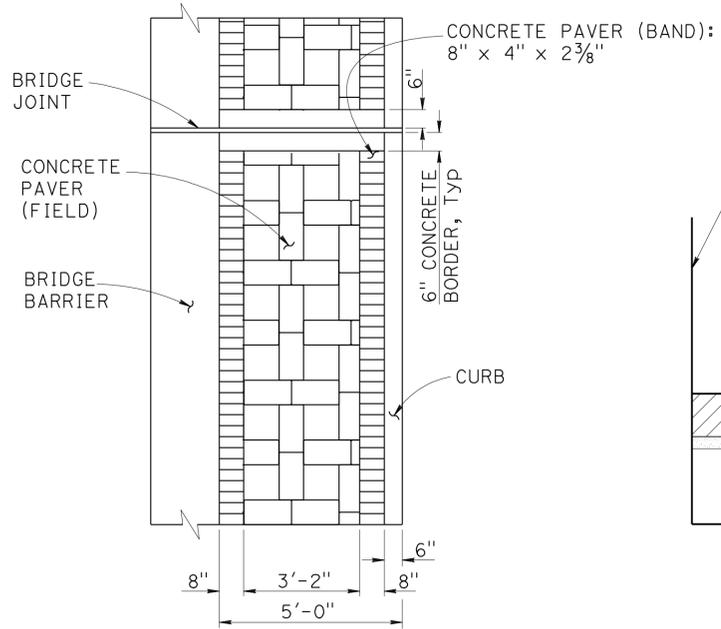
**1 REVISED PER ADDENDUM NO. 1 DATED JULY 2, 2012**

DESIGN BY CHARLES LOMICKA	CHECKED MAMUNUR RAHMAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 55-1104	ROUTE 74/5 SEPARATION (REPLACE) TYPICAL SECTION
DETAILS BY HENGAMEH MAHBOOBI / H.B.	CHECKED MAMUNUR RAHMAN		DESIGN BRANCH 19	POST MILE 0.01	
QUANTITIES BY CHARLES LOMICKA	CHECKED SHAN-PIN YEH				

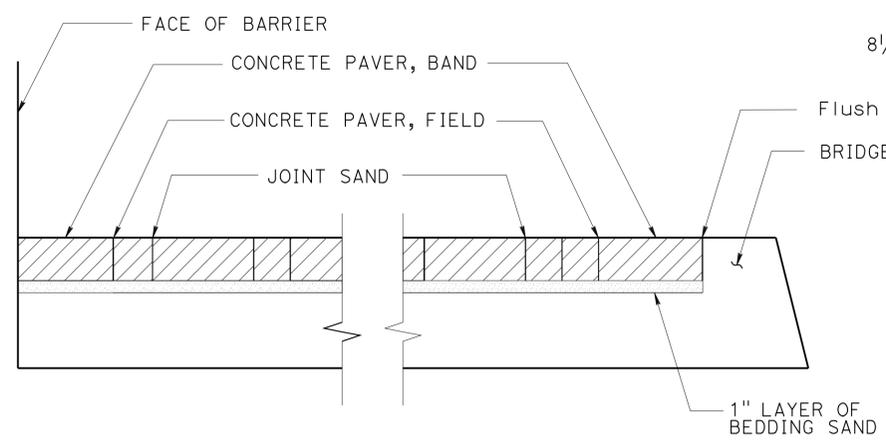
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	5,74	9.3/10.0 0.0/0.2	441	515

Charles Lomicka 03-14-12  
 REGISTERED CIVIL ENGINEER DATE  
 4-9-12  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

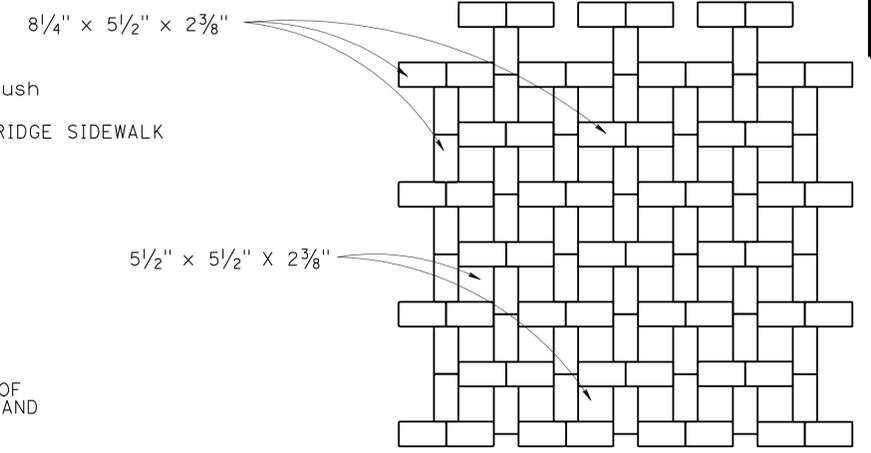
REGISTERED PROFESSIONAL ENGINEER  
 CHARLES LOMICKA  
 No. C 71172  
 Exp. 06/30/13  
 CIVIL  
 STATE OF CALIFORNIA



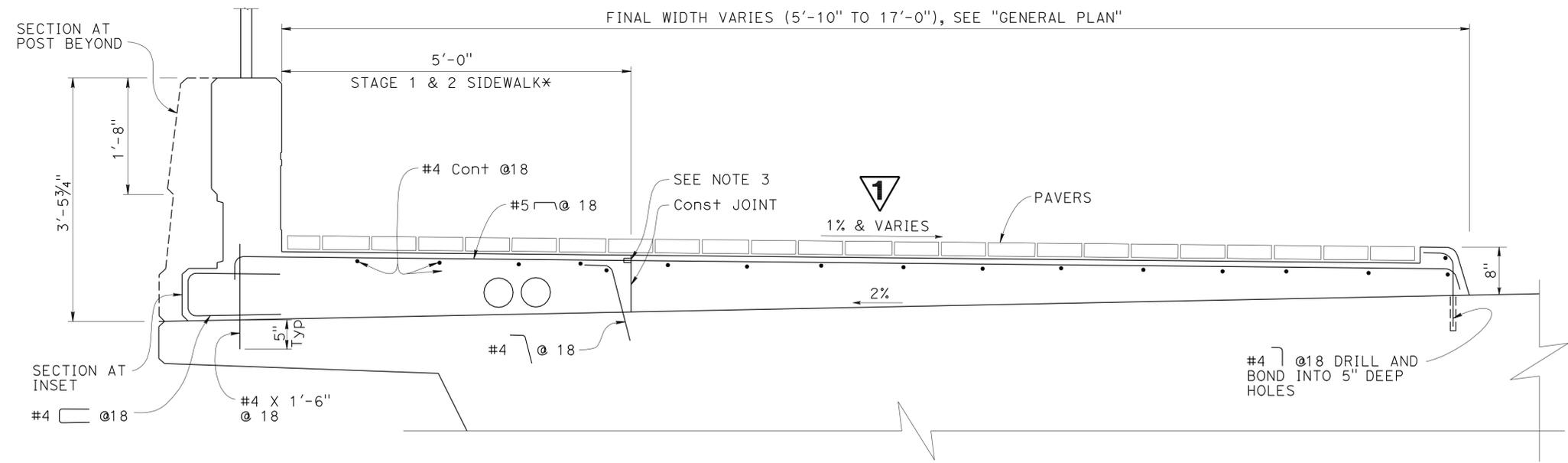
**BRIDGE SIDEWALK PAVER LAYOUT**  
NO SCALE



**INTERLOCKING CONCRETE PAVER DETAIL**  
NO SCALE



**CONCRETE PAVER PATTERN (FIELD)**  
NO SCALE



**1 REVISED PER ADDENDUM No. 1 DATED JULY 2, 2012**

**SIDEWALK DETAILS - ROUTE 74 EB**  
1" = 1'-0"

\* BUILD PARTIAL WIDTH SIDEWALK DURING STAGE 1 CONSTRUCTION FOR SIDEWALK LAYOUT, SEE GENERAL PLAN

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

- NOTES:**
- For other barrier rail details not shown or noted, see **B11-54**
  - For fence details, see "CHAIN LINK RAILING TYPE 7 (Mod)" sheet.
  - Threaded rebar coupler at each transverse #5.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY CHARLES LOMICKA	CHECKED MAMUNUR RAHMAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	55-1104	ROUTE 74/5 SEPARATION (REPLACE) CONCRETE BARRIER TYPE 26(MOD) NO. 2
	DETAILS	BY HEMANT BARBHAIYA	CHECKED MAMUNUR RAHMAN			POST MILE	0.01	
	QUANTITIES	BY CHARLES LOMICKA	CHECKED SHAN-PIN YEH			UNIT: 3621 PROJECT NUMBER & PHASE: 1200000102 1	CONTRACT NO.: 12-0E3101	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

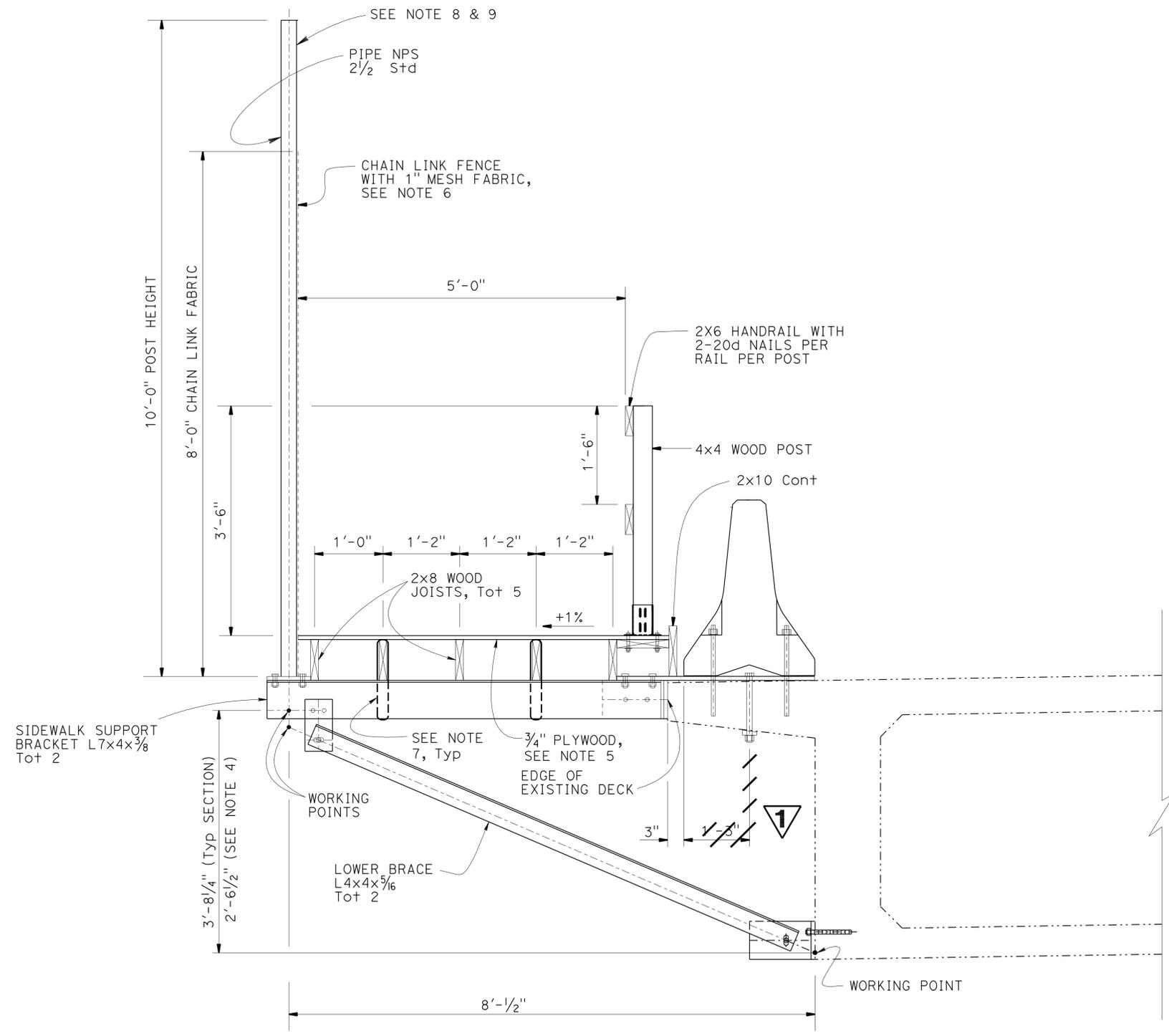
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Orca	5,74	9.3/10.0 0.0/0.2	444	515

<i>Charles Lomicka</i> 03-14-12 REGISTERED CIVIL ENGINEER DATE	
4-9-12 PLANS APPROVAL DATE	

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**TYPICAL SECTION**  
1" = 1'-0"

**1** REVISED PER ADDENDUM No. 1  
DATED JULY 2, 2012

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**NOTES:**

- Secure plywood to stringers with 8d galvanized ring shank common nails or 2 1/2" x9 exterior deck screws. Spacing shall be 6" at edges and 12" in the field. Block all edges of plywood. Top surface of plywood to be painted with Non-skid Paint, or equal. Shim plywood to drain towards bridge.
- See "DETAILS NO. 1" and "DETAILS NO. 2" sheets for additional dimensions and sections.
- Utilities shall not be placed on walkway or walkway supports.
- Dimension for midspan braces. For location of lower braces with higher attachment point near midspan, see PLAN VIEW on "LAYOUT PLAN" sheet.
- If longitudinal plywood joints are used, place additional 2X8 joist as necessary for plywood edge nailing. Longitudnal plywood joints shall not be located less than 2'-6" from face of handrail.
- For additional fence details not shown, see Standard Plan A85.
- Place 3/4" lumber banding tiedown around 2X8 joist and double L 7X4X3/8, total 2 at every other support bracket (16' spacing).
- Attach temporary lighting on fence poles 16' apart. Refer to Section 86-6.11 of the Standard Specifications for type of light.
- For temporary lighting service, see Road Plans, sheet E30.

**GENERAL NOTES**

DESIGN: CALTRANS BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)  
AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION, ASD  
AMERICAN WOOD COUNCIL NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

LIVE LOADING: PEDESTRIAN LOAD: 85 psf

STRUCTURAL STEEL: PLATES AND ROLLED SECTIONS: ASTM A709, GRADE 36  
BOLTS, NUTS, WASHERS: ASTM A325, TYPE 1  
ASTM A307, GRADE B  
ASTM F436  
ASTM F844  
ASTM A563

BOLT HOLES SHALL BE 1/16" LARGER THAN THE NOMINAL DIAMETER OF THE BOLT, UNLESS OTHERWISE NOTED. ALL HIGH STRENGTH BOLT ASSEMBLIES SHALL UTILIZE LOCK WASHERS AND BE SNUG TIGHTENED.

ALL STEEL AND FASTENERS SHALL BE GALVANIZED AFTER FABRICATION.

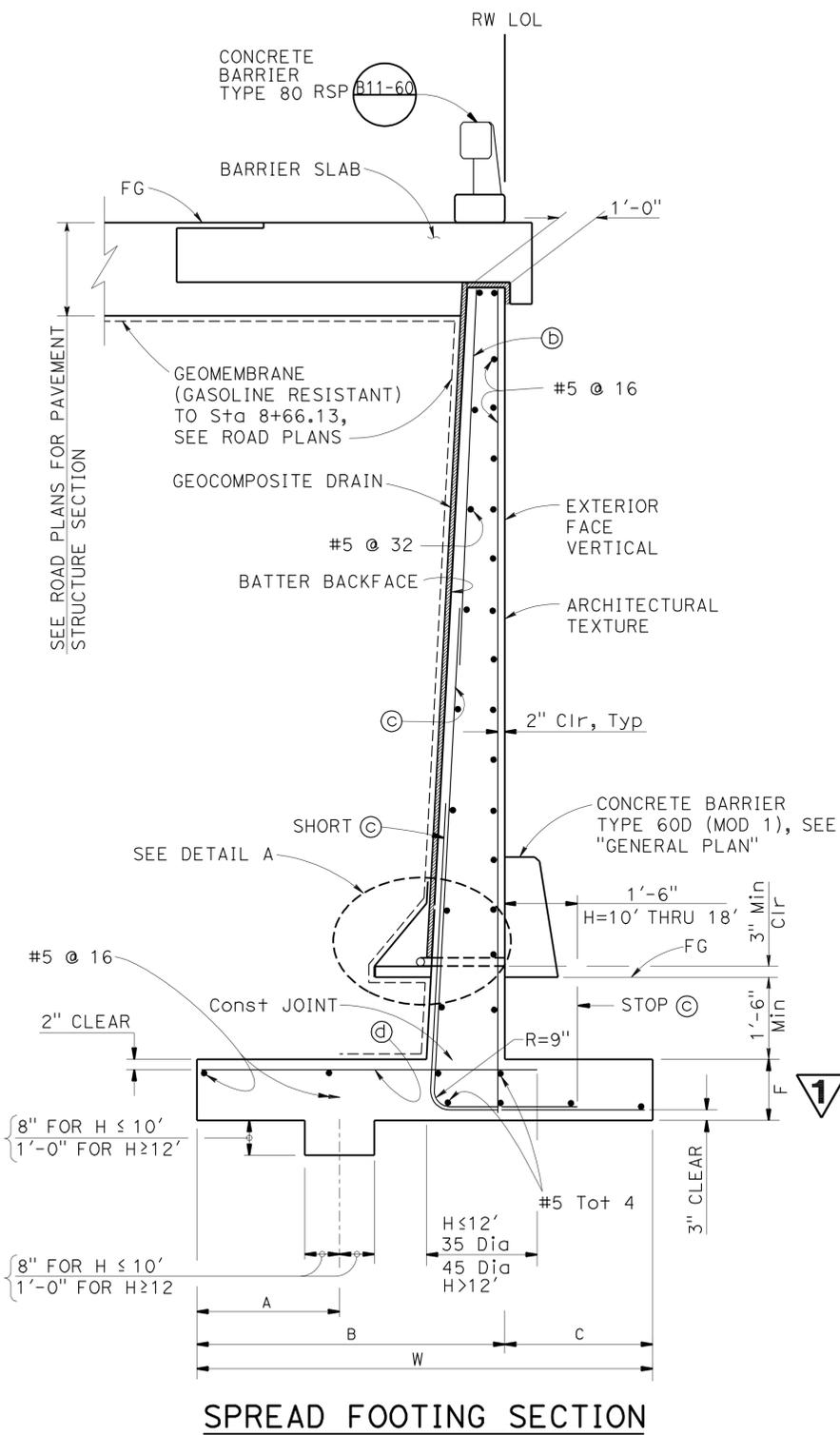
WELDING: WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1.

TIMBER: DOUGLAS FIR LARCH SELECT STRUCTURAL.

PLYWOOD: APA RATED STRUCTURAL 1, EXTERIOR, FIVE-PLY, FIVE-LAYER

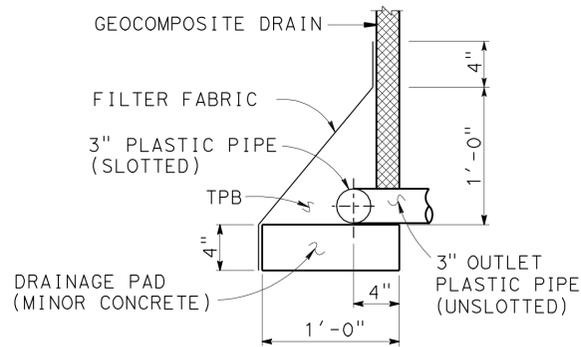
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3621 PROJECT NUMBER & PHASE: 1200000102 1		CONTRACT NO.: 12-0E3101		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF			
DESIGN BY CHARLES LOMICKA CHECKED MAMUNUR RAHMAN		DETAILS BY M. KINGRA, H. INIGUEZ CHECKED MAMUNUR RAHMAN		QUANTITIES BY CHARLES LOMICKA CHECKED EDWARD MERCADO		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 19</b>		BRIDGE NO. 55-1104 POST MILE 0.01		<b>ROUTE 74/5 SEPARATION (REPLACE)          TEMPORARY PEDESTRIAN SIDEWALK          TYPICAL SECTION</b>					
										01-31-11		05-14-12		03-06-12		28 38	

**1 REVISED PER ADDENDUM No. 1  
DATED JULY 2, 2012**

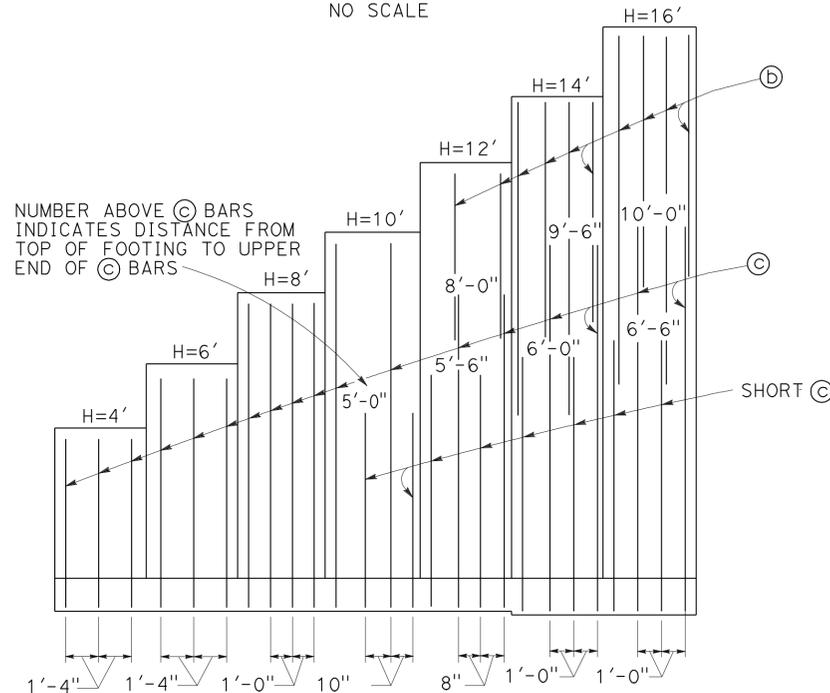


**SPREAD FOOTING SECTION**  
NO SCALE

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



**DETAIL A**  
NO SCALE



**ELEVATION**  
NO SCALE

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA						
DESIGN H	6'	8'	10'	12'	16'	
W	7'-0"	7'-6"	8'-6"	10'-6"	14'-6"	
C	3'-0"	3'-0"	3'-3"	3'-9"	4'-6"	
B	4'-0"	4'-6"	5'-3"	6'-9"	10'-0"	
F	1'-4"	1'-4"	1'-4"	1'-4"	1'-8"	
A	1'-9"	1'-11"	2'-1"	3'-6"	4'-10"	
BATTER	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	
(B) BARS				#5 @ 16	#5 @ 12	
(C) BARS	#5 @ 16	#5 @ 12	#6 @ 10	#6 @ 8	#9 @ 12	
(D) BARS	#5 @ 16	#5 @ 12	#6 @ 10	#6 @ 8	#9 @ 12	
LOADING	Ser: B', q <sub>o</sub>	6.23, 0.92	3.70, 1.11	3.69, 1.29	5.04, 1.17	8.47, 1.02
CASE I	Str: B', q <sub>o</sub>	5.73, 1.30	2.56, 2.03	2.26, 2.67	3.50, 2.13	7.09, 1.54

**SYMBOLS:**

- Ser - SERVICE LIMIT STATE 1
- Str - STRENGTH LIMIT STATE 1
- B' - EFFECTIVE FOOTING WIDTH (ft)
- q<sub>o</sub> - NET BEARING STRESS (ksf)
- q<sub>o</sub> - GROSS UNIFORM BEARING STRESS (ksf)

**NOTES:**

1. For additional details, see "RETAINING WALL DETAILS NO. 2" sheet.
2. At (C) and short (C) bars:  
H < 6', no splices are allowed within 1'-8" above the top of footing.  
H > 6', no splices are allowed within H/4 above the top of footing.

**DESIGN DATA**

- Design: AASHTO LRFD Bridge Design Specifications 4th edition with California Amendments
- WS: 30 psf on barrier
- LS: Varied surcharge on level ground surface
- CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward
- EQE: Mononabe-Okabe Method  
K<sub>h</sub> = 0.2  
K<sub>v</sub> = 0.0
- Soil: φ = 34°  
γ = 120 pcf
- EPS Block: K<sub>a</sub> = 0.15  
γ = 2.5 pcf
- Reinforced Concrete: f'<sub>c</sub> = 3600 psi  
f<sub>y</sub> = 60,000 psi
- Load Combinations and Limit States
- Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS
- Service II Q=1.00DC+1.00EV+1.00EH+1.00WS
- Strength I Q=αDC+βEV+1.50EH+1.75LS  
Q=1.25DC+1.35EV+0.90EH+1.75LS (for piles at heel)
- Strength III Q=αDC+βEV+1.50EH+1.40WS
- Strength V Q=αDC+βEV+1.50EH+1.35LS+0.40WS
- Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE
- Extreme II Q=1.00DC+1.00EV+1.00EH+1.00CT

- Where:
- Q: Force Effects
  - α: 1.25 or 0.90, Which ever Controls Design
  - β: 1.35 or 1.00, which ever Controls Design
  - DC: Dead Load of Structure Components
  - EH: Horizontal Earth Fill Pressure
  - EV: Vertical Earth Fill Pressure
  - LS: Live Load Surcharge
  - EQE: Seismic Earth Pressure
  - EQD: Soil and Structure Components Inertia. Soil inertia ignored for stem design
  - WS: Wind Load on Sound Wall and Barrier
  - CT: Vehicular Collision Force

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Orca	5,74	9.3/10.0, 0.0/0.2	479	515

Charles Lomicka 11-15-11  
REGISTERED CIVIL ENGINEER DATE

4-9-12  
PLANS APPROVAL DATE

CHARLES LOMICKA  
No. C 71172  
Exp. 06/30/13  
CIVIL  
STATE OF CALIFORNIA

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DESIGN	BY RUI WANG	CHECKED MAMUNUR RAHMAN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 19	BRIDGE NO.	RETAINING WALL NO. 96
DETAILS	BY HENGAMEH MAHBOOBI	CHECKED MAMUNUR RAHMAN			55E0121	
QUANTITIES	BY EDWARD MERCADO	CHECKED HTOON WIN			POST MILE	
					9.6	RETAINING WALL DETAILS NO. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT: 3621  
PROJECT NUMBER & PHASE: 1200000102 1 CONTRACT NO.: 0E3101

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06-28-11	3	10

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