

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	11, 125, 905	Var	113	302

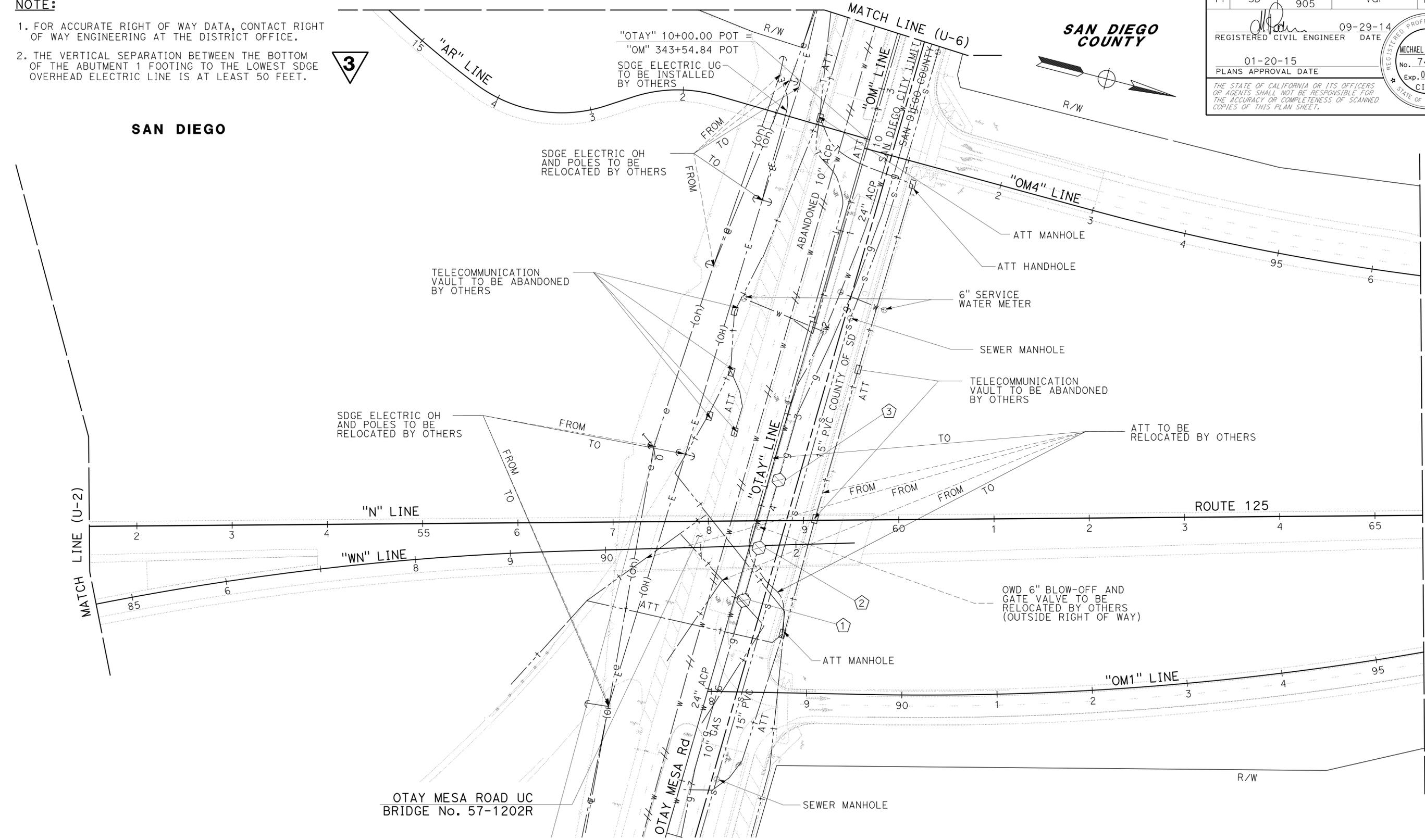
09-29-14  
REGISTERED CIVIL ENGINEER DATE

01-20-15  
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  
MICHAEL PEDERSEN  
No. 74073  
Exp. 06-30-15  
CIVIL  
STATE OF CALIFORNIA

- NOTE:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
  - THE VERTICAL SEPARATION BETWEEN THE BOTTOM OF THE ABUTMENT 1 FOOTING TO THE LOWEST SDGE OVERHEAD ELECTRIC LINE IS AT LEAST 50 FEET.



**POSITIVE LOCATION INFORMATION**

No.	LOCATION	NORTHING	EASTING	DEPTH	ELEVATION	METHOD
1	9.8' L+ "OTAY" 15+00.6	1,787,026.99	6,346,532.88	9.0 FT	521.42	POTHOLING
2	9.8' L+ "OTAY" 14+43.3	1,787,030.39	6,346,474.73	9.6 FT	520.20	POTHOLING
3	10.1' L+ "OTAY" 13+69.2	1,787,030.07	6,346,401.44	10.0 FT	519.00	POTHOLING

**3** REVISED PER ADDENDUM No. 3 DATED MAY 29, 2015

**UTILITY PLAN**

**U-3**

APPROVED FOR UTILITY INFORMATION ONLY

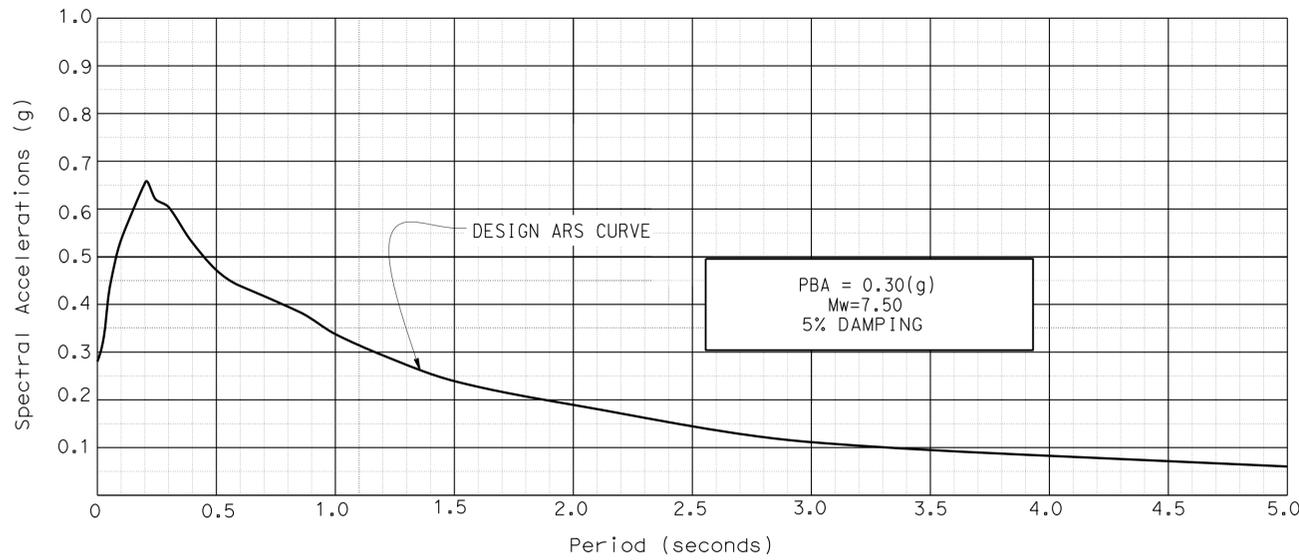
SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DESIGN  
 CALTRANS  
 FUNCTIONAL SUPERVISOR ABU-BAKR AL-JAFRI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 MICHAEL PEDERSEN  
 BROOKE EMERY  
 REVISED BY  
 DATE REVISED

LAST REVISION DATE PLOTTED => 28-MAY-2015  
 10-15-14 TIME PLOTTED => 10:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
11	SD	11,125, 905	Var	287	302

REGISTERED CIVIL ENGINEER DATE 03-13-14  
 PLANS APPROVAL DATE 01-20-15  
 REGISTERED PROFESSIONAL ENGINEER  
 PAUL A. PETERSON  
 No. C66764  
 Exp. 09-30-16  
 CIVIL  
 STATE OF CALIFORNIA  
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**SITE SPECIFIC ACCELERATION RESPONSE SPECTRA**

**GENERAL NOTES  
LOAD AND RESISTANCE FACTOR DESIGN**

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (4th edition 2008 and California Amendments dated December 2011).

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) Version 1.7 July 2013

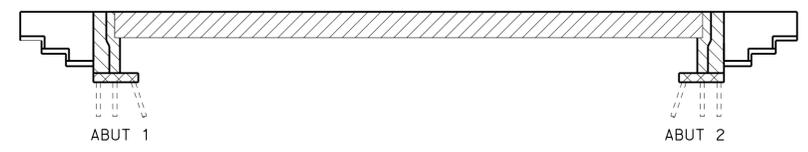
DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL93 with "Low-Boy" and Permit Design Vehicle.

SEISMIC LOADING: See Site Specific Acceleration Response Spectra

REINFORCED CONCRETE:  $f_y = 60$  Ksi  
 $f'_c =$  See Concrete Strength and Type Limits

PRESTRESSED CONCRETE: See "Prestressing Notes" on "Girder Layout" sheet.



**Legend:**

- Structural Concrete, Bridge (5.5 Ksi at 28 days)
- Structural Concrete, Bridge Footing (4.0 Ksi at 28 days)
- Structural Concrete, Bridge (Abutments -- 4.0 Ksi at 28 days)
- Structural Concrete, Bridge (Retaining Walls -- 3.6 Ksi at 28 days)

**CONCRETE STRENGTH AND TYPE LIMITS**

No Scale

**INDEX TO PLANS**

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	DECK CONTOUR
4	FOUNDATION PLAN
5	ABUTMENT 1 LAYOUT
6	ABUTMENT 2 LAYOUT
7	ABUTMENT DETAILS NO. 1
8	ABUTMENT DETAILS NO. 2
9	TYPICAL SECTION
10	GIRDER LAYOUT
11	GIRDER REINFORCEMENT
12	RETAINING WALL TYPE 1
13	SUPPLY LINE (BRIDGE) DETAILS
14	SLOPE PAVING (ROCK COBBLE)
15	STRUCTURE APPROACH TYPE N(30S)
16	STRUCTURE APPROACH DRAINAGE DETAILS
17	LOG OF TEST BORINGS

**STANDARD PLANS DATED 2010**

REF	TITLE
A10A	ABBREVIATIONS
A10B	ABBREVIATIONS
A10C	LINE AND SYMBOLS
A10D	LINE AND SYMBOLS
A10E	LINE AND SYMBOLS
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-5	PILE DETAILS CLASS 90 AND CLASS 140
B2-8	PILE DETAILS CLASS 200
RSP B3-5	RETAINING WALL DETAILS No. 1
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING BOX GIRDER
RSP B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
RSP B11-56	CONCRETE BARRIER TYPE 736
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUIT LESS THAN 4")
B14-4	WATER SUPPLY LINE (BRIDGE) (PIPE SIZES LESS THAN 4")
B14-5	WATER SUPPLY LINE (DETAILS) (PIPE SIZES LESS THAN 4")



**PILE DATA TABLE**

LOCATION	PILE TYPE	NOMINAL RESISTANCE (Kips)		DESIGN TIP ELEVATION (F+)	SPECIFIED TIP ELEVATION (F+)	NOMINAL DRIVING RESISTANCE (Kips)
		Compression	Tension			
Abutment 1	PP 16" x 0.625" Class 200 (Alternative W - Modified)	380	0	501.0 (a)	501.0	380
Abutment 2	PP 16" x 0.625" Class 200 (Alternative W - Modified)	380	0	512.0 (a)	512.0	380

**NOTES:**

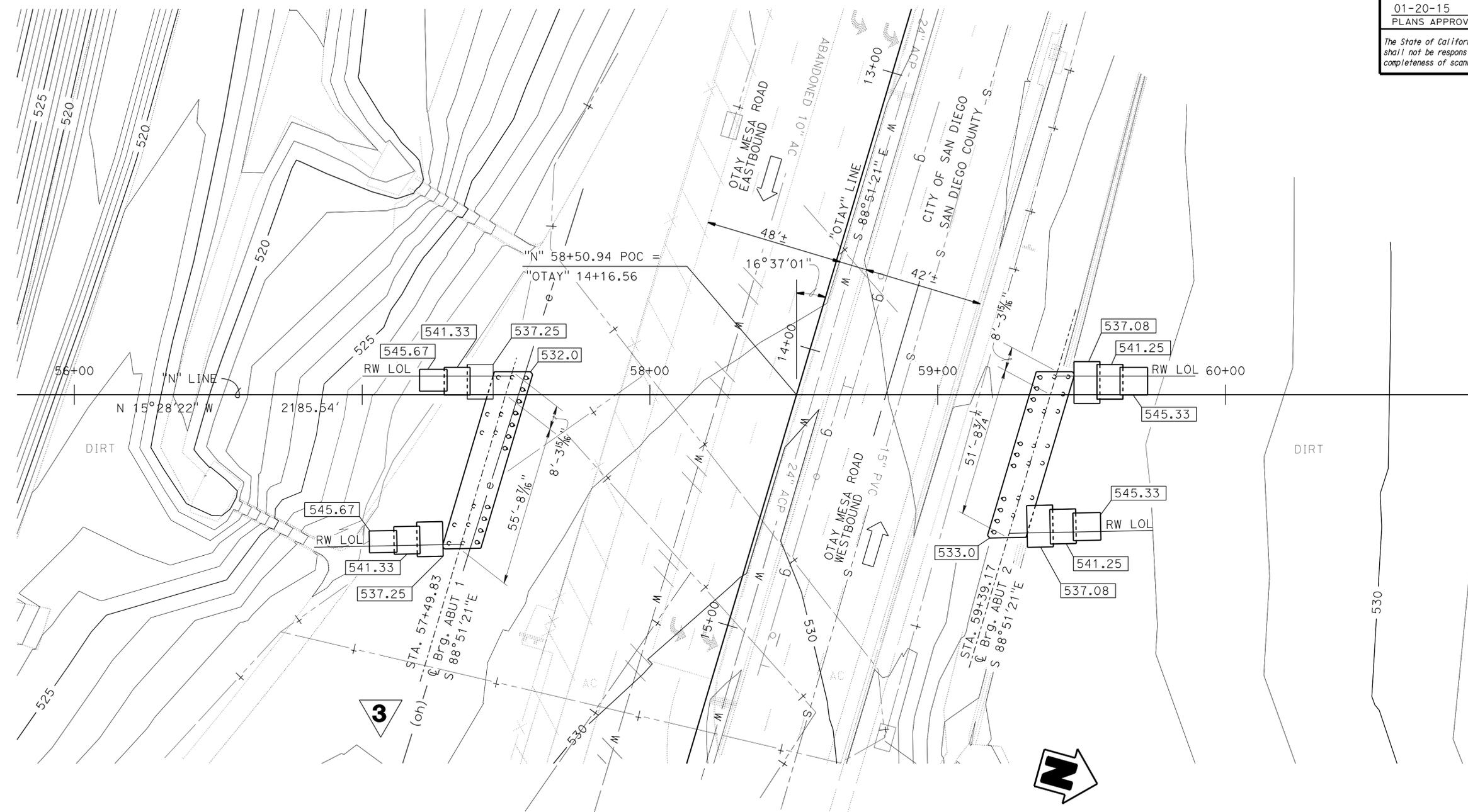
- Design Tip controlled by (a) Compression
- For details on the Class 200 (Alternative W - Modified) Piles see Standard Plans Sheet B2-8, Alternative "W"
- Piles shall be closed-ended (Modified). For details see Standard Plans Sheet B2-5, Alternative "V" closed-ended detail. Utilize 1/4" R Min with 5/8" fillet weld

**3 REVISED PER ADDENDUM No. 3 DATED MAY 29, 2015**

DESIGN BY P. A. PETERSON	CHECKED J. M. PETERSON	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 14	BRIDGE NO. 57-1202R	OTAY MESA ROAD UC INDEX TO PLANS		
DETAILS BY J. M. PETERSON	CHECKED P. A. PETERSON			POST MILE 0.74			
QUANTITIES BY J. M. PETERSON	CHECKED P. A. PETERSON						
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3616 PROJECT NUMBER & PHASE: 11130001671	CONTRACT NO.: 11-288811	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 17

**3 REVISED PER ADDENDUM No. 3 DATED MAY 29, 2015**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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 REGISTERED CIVIL ENGINEER			03-13-14	DATE	
01-20-15			PLANS APPROVAL DATE		
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**SURVEY NOTES:**

**BASIS OF BEARINGS AND COORDINATES:**  
 FOR THIS PROJECT IS THE CALIFORNIA COORDINATE SYSTEM OF 1983, HPGN EPOCH ADJUSTMENT [CCS 83 (1991.35)], ZONE 6. 2ND ORDER PROJECT CONTROL STATION VALUES WERE ESTABLISHED IN MARCH 2003 THROUGH JUNE 2011 BASED ON THE CRITERIA SET FORTH IN THE FEDERAL GEODETIC CONTROL SUBCOMMITTEE'S "GEOMETRIC GEODETIC ACCURACY STANDARDS AND SPECIFICATIONS FOR USING GPS RELATIVE POSITIONING TECHNIQUES" REPRINTED AUGUST 1, 1989.

**BASIS OF ELEVATIONS:**  
 FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ELEVATIONS WERE ESTABLISHED BY GPS FAST STATIC SURVEY.

**NOTES AND SYMBOLS:**

- Retaining Wall Layout lines match Roadway Alignment
- See 'Information Handout' for additional information

 Indicates bottom of Footing Elevation  
 Denoted pile, all piles at Abutment not shown

DESIGN	BY P.A. PETERSON	CHECKED J.M. PETERSON
DETAILS	BY P & J PETERSON	CHECKED J.M. PETERSON
QUANTITIES	BY J.M. PETERSON	CHECKED VIJI RAMAKRISHNAN

**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

**DIVISION OF ENGINEERING SERVICES**  
 STRUCTURE DESIGN  
**DESIGN BRANCH 14**

BRIDGE NO.	57-1202R
POST MILE	0.74

**OTAY MESA ROAD UC**  
**FOUNDATION PLAN**

USERNAME => s127400 DATE PLOTTED => 28-MAY-2015 TIME PLOTTED => 10:58