

Sample Plan Set

Retaining Wall 1975

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1738	2313

V. Ramakrishnan 10-01-14
REGISTERED CIVIL ENGINEER DATE

6-1-15
PLANS APPROVAL DATE

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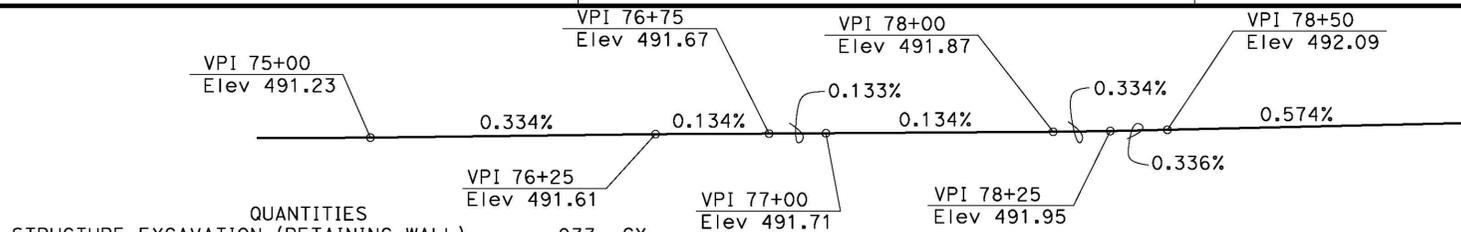


INDEX TO PLANS

SHEET NO.	TITLE
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2	STRUCTURE PLAN NO. 1
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4	FOUNDATION PLAN
5	RETAINING WALL TYPE 1 SWB DETAILS NO. 1
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7	MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL DETAILS NO. 1
8	MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL DETAILS NO. 2
9	ARCHITECTURAL DETAILS
10	SLOPE PAVING
11	LOG OF TEST BORINGS

STANDARD PLANS 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINES AND SYMBOLS (SHEET 1 OF 3)
A10D	LINES AND SYMBOLS (SHEET 2 OF 3)
A10E	LINES AND SYMBOLS (SHEET 3 OF 3)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
B0-3	BRIDGE DETAILS
RSP B3-5	RETAINING WALL DETAILS No. 1
RSP B15-6	SOUND WALL MASONRY BLOCK ON TYPE 736S/SV BARRIER DETAILS (1)
B15-9	SOUND WALL MASONRY BLOCK MISCELLANEOUS DETAILS

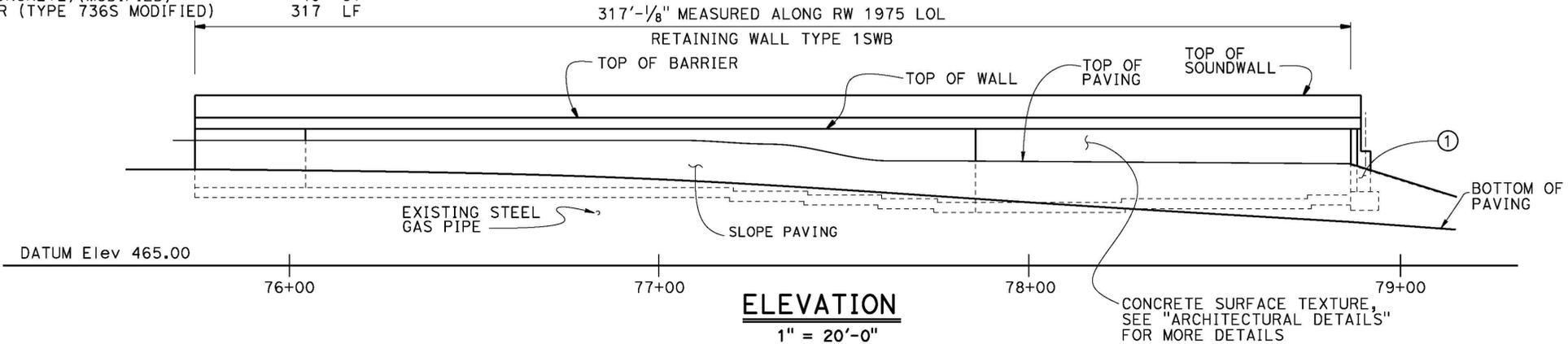


PROFILE GRADE

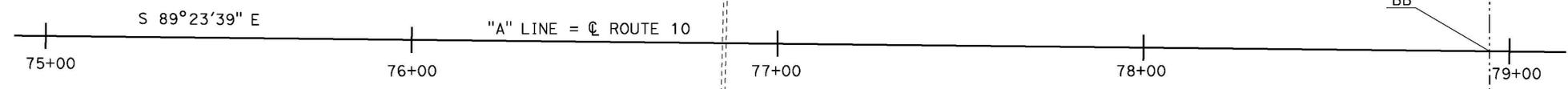
QUANTITIES

STRUCTURE EXCAVATION (RETAINING WALL)	933	CY
STRUCTURE EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)	29	CY
STRUCTURE BACKFILL (RETAINING WALL)	518	CY
PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	12	CY
STRUCTURAL CONCRETE, RETAINING WALL	282	CY
CONCRETE SURFACE TEXTURE	2,472	SQFT
BAR REINFORCING STEEL (RETAINING WALL)	25,660	LB
SOUND WALL (MASONRY BLOCK)	2,959	SQFT
SLOPE PAVING (CONCRETE)(MODIFIED)	40	CY
CONCRETE BARRIER (TYPE 736S MODIFIED)	317	LF

TOP OF WALL
No Scale



ELEVATION



CURVE DATA "B2" LINE

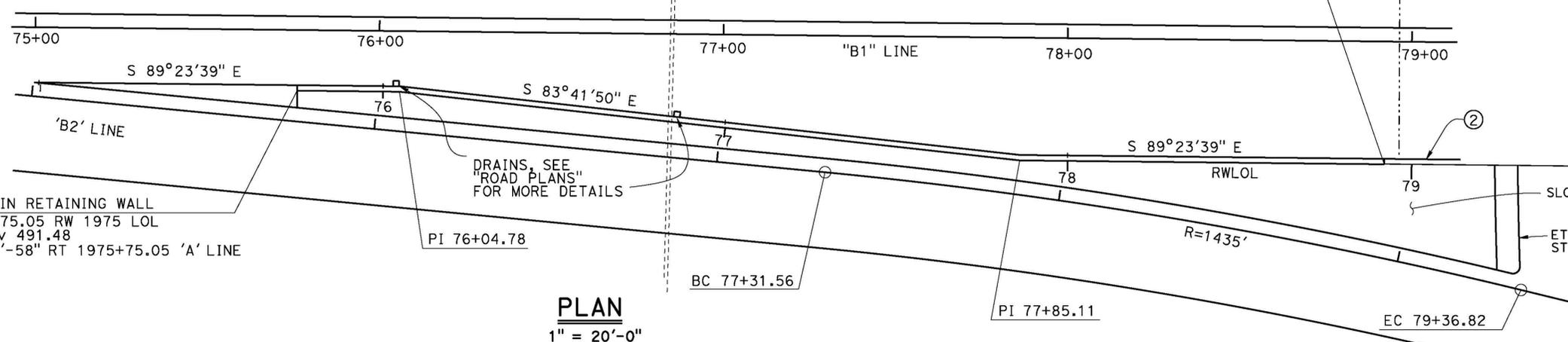
R = 1435'
 $\Delta = 8^{\circ}11'44''$
T = 102.81'
R = 205.26'

NOTES:

- ① See "CITRUS STREET UNDERCROSSING (WIDEN)" Plans
- ② Match EOD Elevation of Citrus Street UC Widen. See "CITRUS STREET UC (WIDEN)" Plans for details.

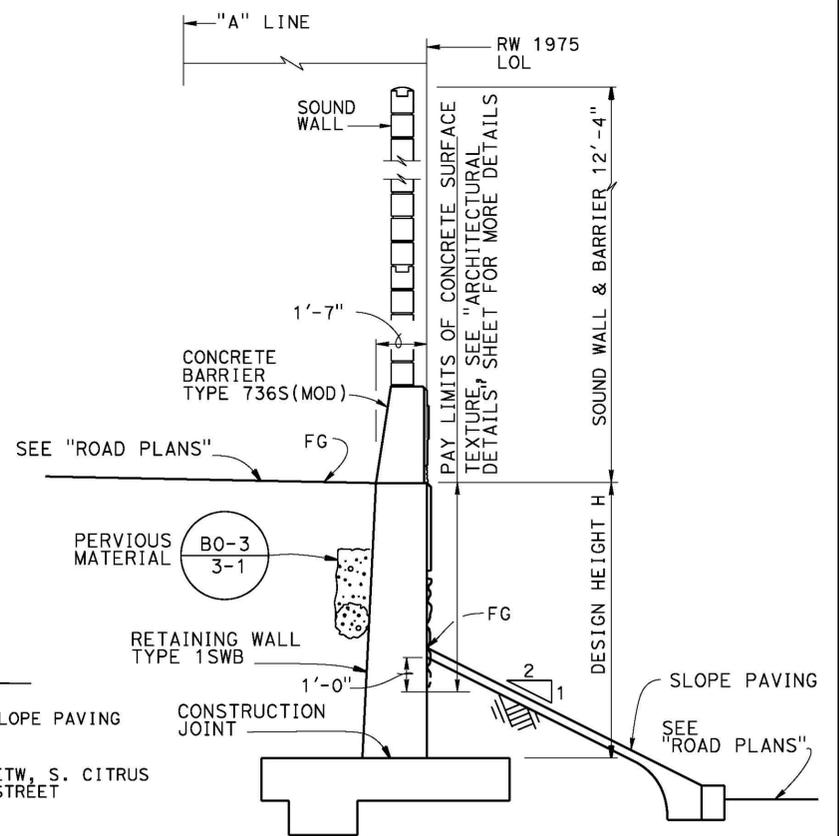


END RETAINING WALL
78+92.06 RW 1975 LOL
Elev 492.31
132.58' RT 1978+91.16 'A' LINE



PLAN

1" = 20'-0"



TYPICAL SECTION*

* Architectural Treatment not shown

Douglas J. Lane
DESIGN ENGINEER

DESIGN	BY V. Ramakrishnan	CHECKED J. Lane	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY L. Xiong	CHECKED J. Lane	LAYOUT	BY V. Ramakrishnan
QUANTITIES	BY V. Ramakrishnan	CHECKED J. Lane	SPECIFICATIONS	BY Xiaodong Chen

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
BRIDGE NO. 53E0320
POST MILE 37.42/37.48
DESIGN BRANCH 14

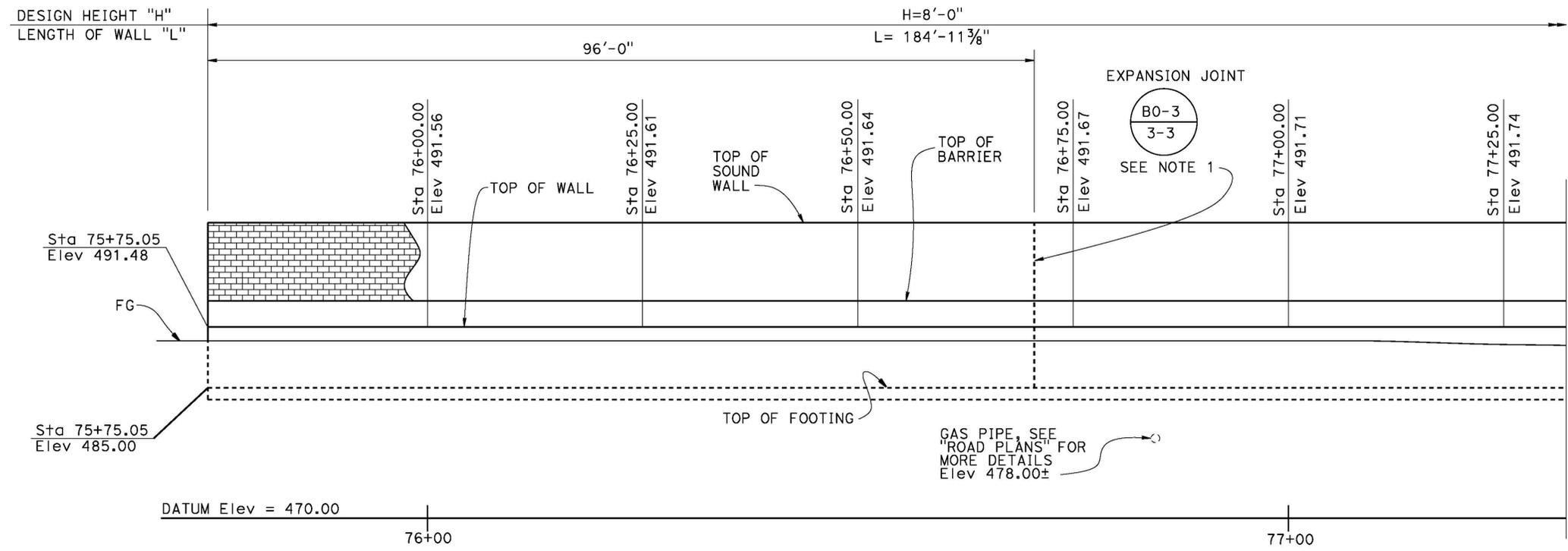
RETAINING WALL 1975 GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1739	2313

V. Ramakrishnan
REGISTERED CIVIL ENGINEER
DATE 10-01-14
PLANS APPROVAL DATE 6-1-15

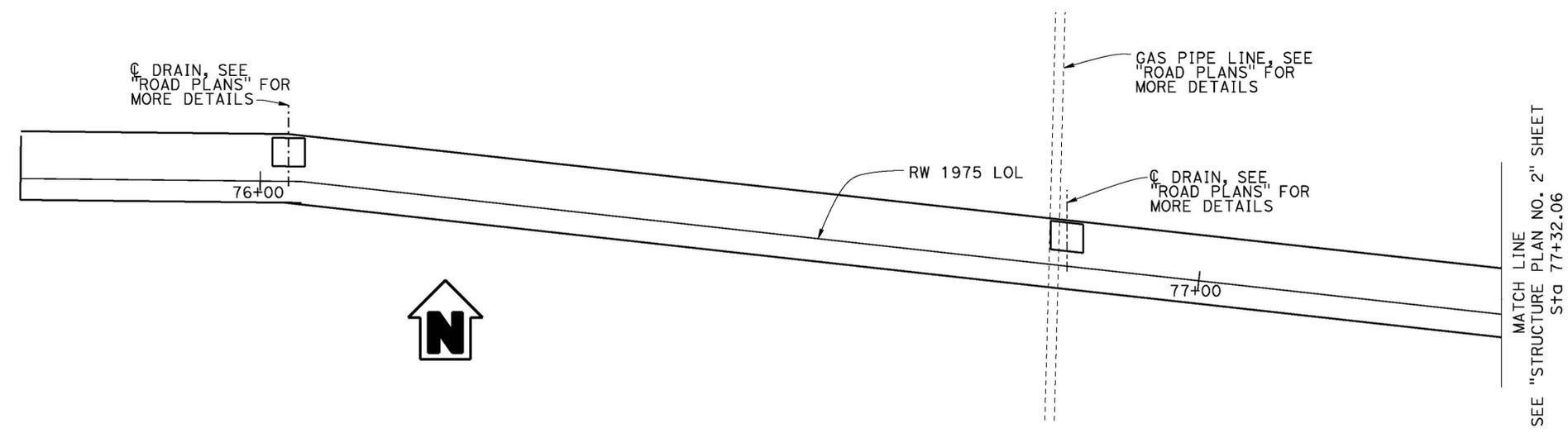
REGISTERED PROFESSIONAL ENGINEER
VIJAYARANI RAMAKRISHNAN
No. C63091
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

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ELEVATION
1/8" = 1'-0"

NOTE:
1. Weakened Planes and Drains not shown. See STANDARD PLAN "BRIDGE DETAILS" for more details.



PLAN
1/8" = 1'-0"

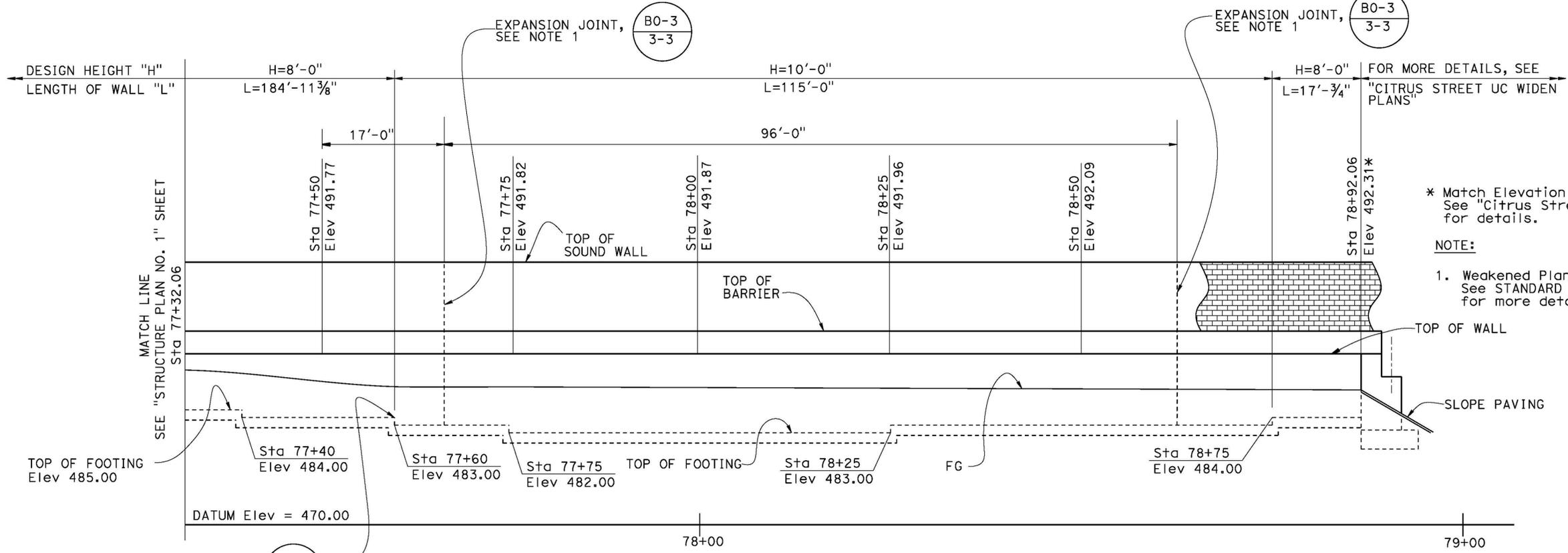
DESIGN BY V. Ramakrishnan CHECKED J. Lane DETAILS BY L. Xiong CHECKED J. Lane QUANTITIES BY V. Ramakrishnan CHECKED J. Lane	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 14	BRIDGE NO. 53E0320 POST MILE 37.42/37.48	RETAINING WALL 1975 STRUCTURE PLAN NO. 1
	UNIT: 3613 PROJECT NUMBER & PHASE: 07130000071	CONTRACT NO.: 07-1193U1	REVISION DATES 09-09-14 05-27-14 01-21-14 02-24-14	SHEET 2 OF 11
	STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3			

DISREGARD PRINTS BEARING EARLIER REVISION DATES

FILE => rw1975-c-sp_01.dgn

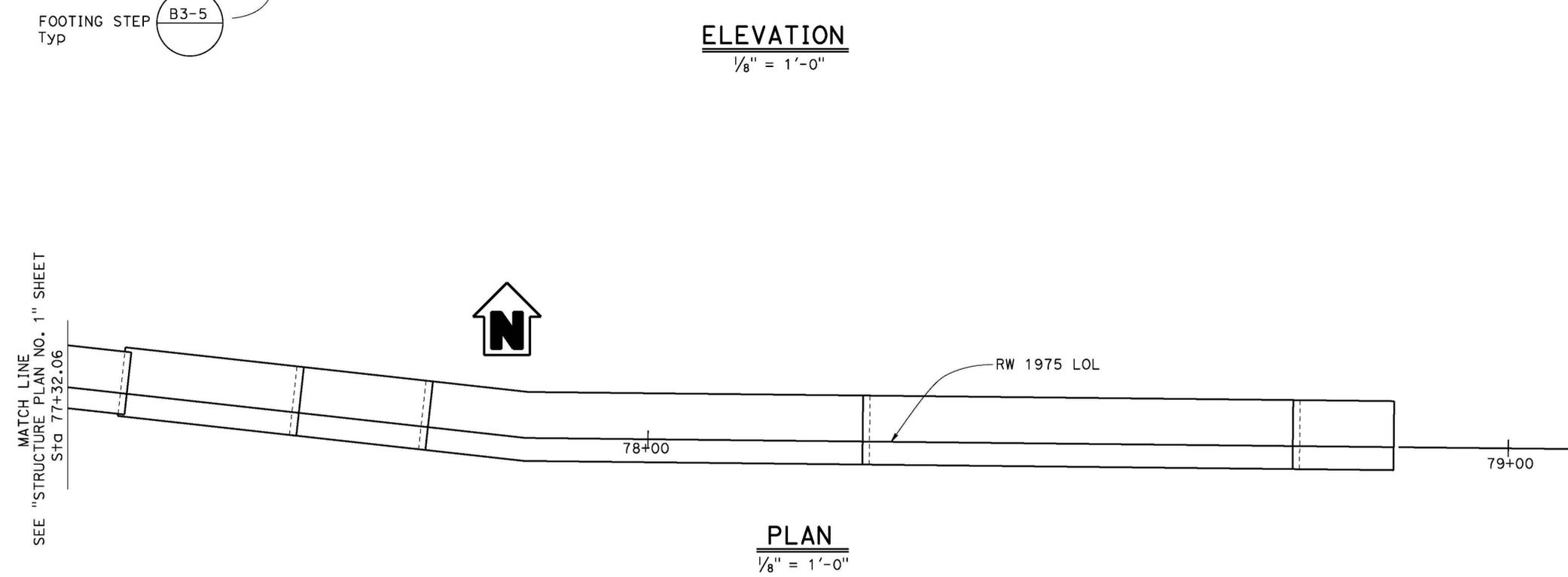
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18-MAY-2015
DATE PLOTTED =>
s125624
USERNAME =>

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1740	2313
V. Ramakrishnan REGISTERED CIVIL ENGINEER DATE 10-01-14			VIJAYARANI RAMAKRISHNAN No. C63091 Exp 08-30-16 CIVIL STATE OF CALIFORNIA		
PLANS APPROVAL DATE 6-1-15					
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* Match Elevation of EOD of Citrus Street UC Widen. See "Citrus Street UC Widen PLANS" for details.

- NOTE:
- Weakened Planes & Drains, not shown. See STANDARD PLAN "BRIDGE DETAILS" for more details.



DESIGN	BY V. Ramakrishnan	CHECKED J. Lane
DETAILS	BY L. Xiong	CHECKED J. Lane
QUANTITIES	BY V. Ramakrishnan	CHECKED J. Lane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 14

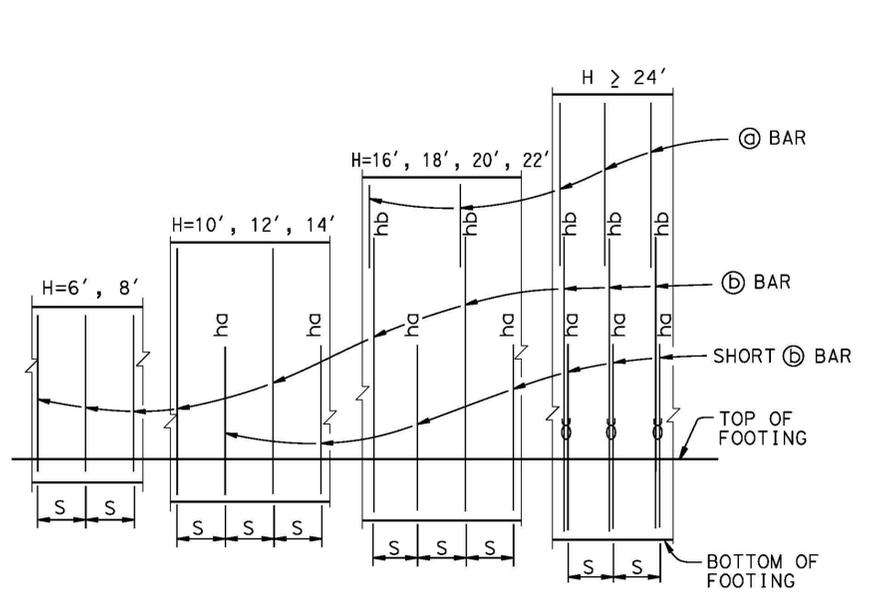
BRIDGE NO.	53E0320
POST MILE	37.42/37.48

**RETAINING WALL 1975
STRUCTURE PLAN NO. 2**



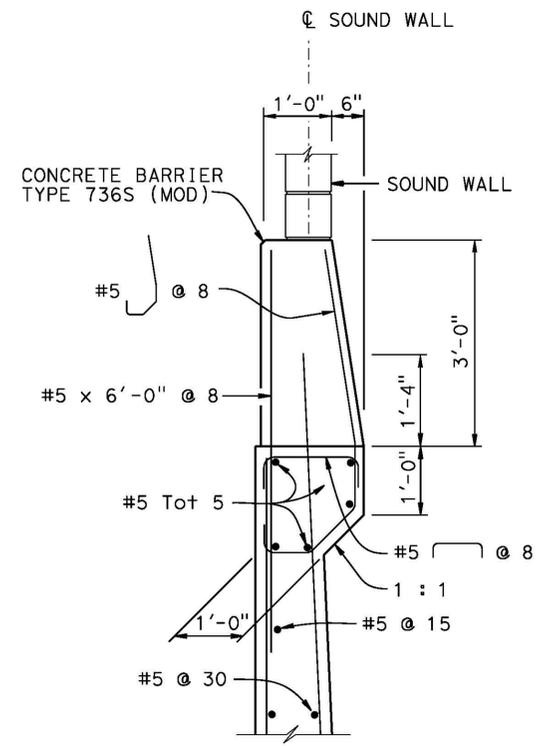
REVISION DATES	SHEET	OF
07-21-14 09-09-14 4-16-14 05-21-14	3	11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1742	2313
V. Ramakrishnan REGISTERED CIVIL ENGINEER				10-01-14 DATE	
6-1-15 PLANS APPROVAL DATE					
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ELEVATION
No Scale

NOTES:
 "ha" and "hb" above B bars indicate distance from top of footing to upper end of B bars, see table.
 "S" is B bar spacing, see table.
 ⌘ : 2 bar bundle



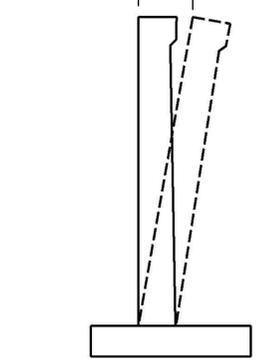
DETAIL A
3/4 = 1'-0"

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
 WS: 33 psf on Sound Wall and 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
 $K_h = 0.3$
 $K_v = 0.0$
 Soil: $\phi = 34^\circ$
 $\gamma = 120$ pcf
 Reinforced Concrete: $f'_c = 3600$ psi
 $f_y = 60,000$ 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 $Q = aDC + \beta EV + 1.50EH + 1.75LS$
 Strength III $Q = aDC + \beta EV + 1.50EH + 1.40WS$
 Strength V $Q = aDC + \beta EV + 1.50EH + 1.35LS + 0.40WS$
 Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$
 Extreme II $Q = 1.00DC + 1.00EV + 1.00EH + 1.00CT$

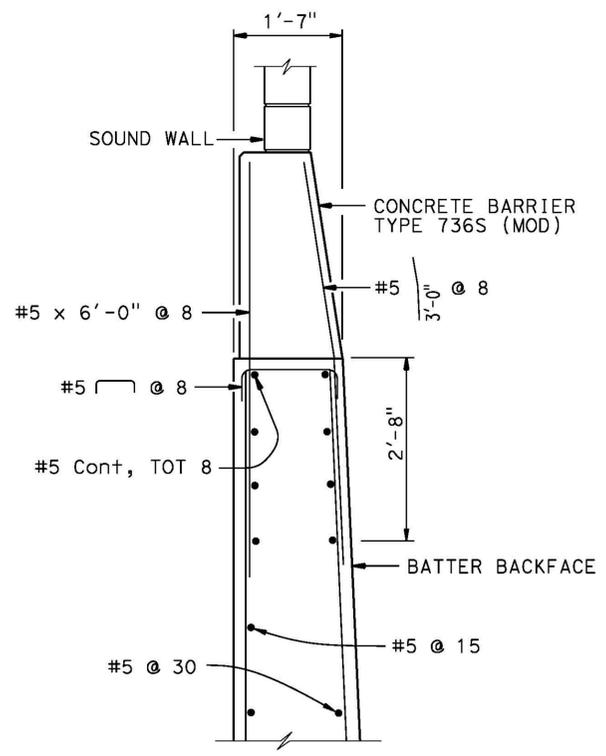
Where: Q: Force Effects
 a: 1.25 or 0.90, which ever Controls Design
 B: 1.35 or 1.00, which ever Controls Design
 DC: Dead Load of Structure Components
 EV: Vertical Earth Fill Pressure
 LS: Live Load Surcharge
 EQE: Seismic Earth Pressure
 EQD: Soil and Structure Components Inertia. Soil inertia ignored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

VERTICAL LAYOUT LINE
 A*
 A* OFFSET = 1/2" PER 10' OF WALL STEM HEIGHT



WALL OFFSET
No Scale

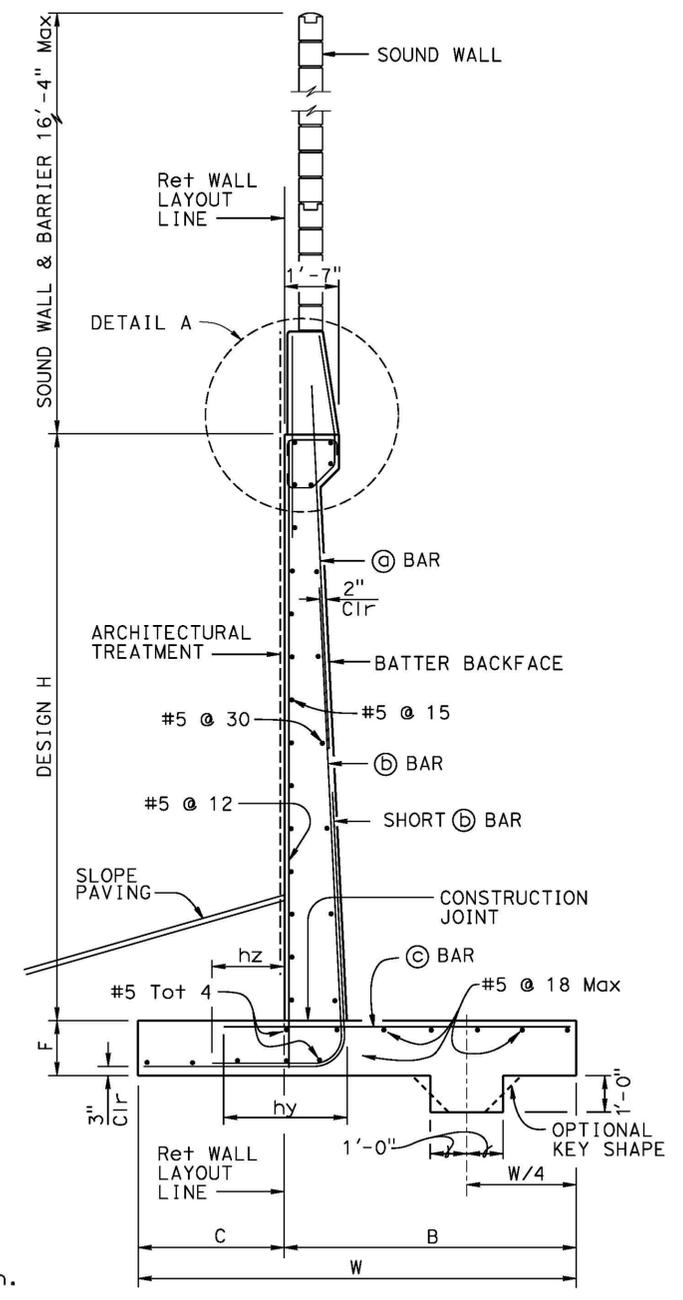
Values for offsetting forms to be determined by the Engineer



OPTIONAL DETAIL A
3/4 = 1'-0"

For Details not shown, see "DETAIL A"

- NOTES:
- For sound wall and retaining wall Architectural finish or texture see details elsewhere in Project Plans
 - For details not shown and drainage notes see **B3-5**
 - Footing cover, 1'-6" minimum.
 - For sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
 - For H = 6' through 14', extend B bars into Barrier for stem with haunch.
 - For H ≥ 16', extend A bars into Barrier for stem with haunch.



SPREAD FOOTING SECTION
No Scale

STANDARD DRAWING	MODIFIED DETAIL
FILE NO. xs14-220-1	APPROVAL DATE July 2011

BRIDGE NO. 53E0320	RETAINING WALL NO. 1975
POST MILE 37.42/37.48	
RETAINING WALL TYPE 1 SWB-DETAILS NO. 1	

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
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UNIT: 3613	CONTRACT NO.: 07-1193U1
PROJECT NUMBER & PHASE: 07130000071	DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES	SHEET 5 OF 11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1743	2313

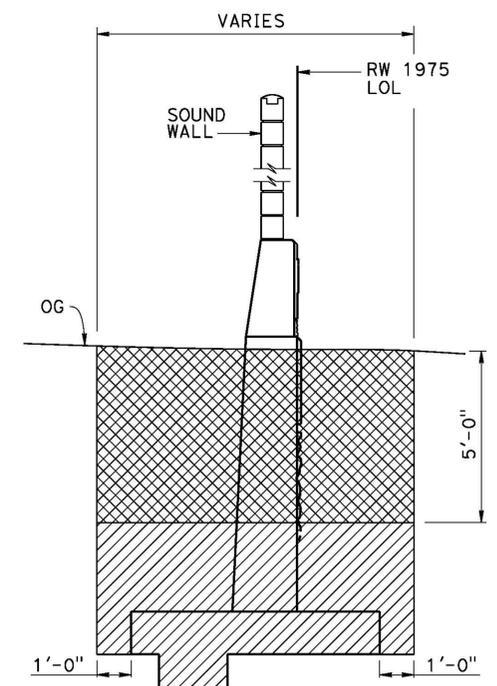
V. Ramakrishnan
 REGISTERED CIVIL ENGINEER
 DATE: 10-01-14
 PLANS APPROVAL DATE: 6-1-15

REGISTERED PROFESSIONAL ENGINEER
 VIJAYARANI RAMAKRISHNAN
 No. C63091
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

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TABLE OF REINFORCING STEEL DIMENSIONS AND DATA														
DESIGN H	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'
W	6'-9"	7'-3"	8'-0"	8'-9"	10'-0"	11'-6"	12'-9"	14'-0"	15'-9"	18'-0"	19'-9"	21'-9"	23'-3"	25'-3"
C	2'-3"	2'-5"	2'-8"	2'-11"	3'-4"	3'-10"	4'-3"	4'-8"	5'-3"	6'-0"	6'-7"	7'-3"	7'-9"	8'-5"
B	4'-6"	4'-10"	5'-4"	5'-10"	6'-8"	7'-8"	8'-6"	9'-4"	10'-6"	12'-0"	13'-2"	14'-6"	15'-6"	16'-10"
F SPREAD FOOTING	1'-3"	1'-3"	1'-3"	1'-3"	1'-6"	1'-9"	1'-9"	2'-3"	2'-6"	2'-6"	2'-9"	3'-0"	3'-6"	3'-9"
STEM WITH HAUNCH, BATTER	0	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	5/8:12	3/4:12	7/8:12	1:12	1:12
STEM WITHOUT HAUNCH, BATTER	0	0	0	0	0	0	0	0	1/4:12	1/4:12	1/2:12	3/4:12	3/4:12	3/4:12
⊙ BARS						#7 @ 15	#7 @ 12	#7 @ 12	#8 @ 12	#6 @ 6	#6 @ 6	#6 @ 6	#8 @ 9	#9 @ 9
⊙ BARS	#8 @ 12	#8 @ 12	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 7.5	#9 @ 6	#10 @ 6	#10 @ 6	#8 @ 6	#8 @ 6	#8 @ 6	#10 @ 9	#11 @ 9
ha			5'-0"	6'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-6"	7'-6"	8'-6"	9'-3"	15'-0"	11'-3"
hb						11'-6"	12'-0"	13'-3"	16'-0"	15'-6"	17'-6"	18'-9"	21'-0"	20'-9"
hy	2'-0"	2'-4"	1'-8"	2'-0"	2'-4"	2'-10"	2'-10"	3'-7"	3'-7"	4'-6"	5'-6"	2'-10"	4'-6"	5'-6"
hz			0	0	3'-1"	3'-7"	4'-0"	4'-5"	5'-0"	3'-0"	3'-0"	3'-6"	5'-6"	3'-0"
⊙ BARS	#6 @ 12	#7 @ 12	#5 @ 6	#6 @ 6	#7 @ 6	#8 @ 7.5	#8 @ 6	#9 @ 6	#9 @ 6	#10 @ 6	#11 @ 6	#8 @ 6	#10 @ 9	#11 @ 9
SER I: B'(ft), q ₀ (ksf)	5.9, 1.2	6.0, 1.4	6.5, 1.6	7.0, 1.8	8.1, 1.9	9.7, 2.0	11.0, 2.1	12.1, 2.3	13.8, 2.4	16.6, 2.4	18.5, 2.6	20.7, 2.7	22.1, 2.9	24.3, 3.0
STR Ia: B'(ft), q ₀ (ksf)	6.3, 1.9	6.3, 2.3	6.7, 2.5	7.0, 2.9	8.1, 3.1	9.5, 3.2	10.8, 3.4	11.8, 3.7	13.4, 4.0	16.2, 4.0	18.0, 4.2	20.2, 4.4	21.5, 5.0	23.7, 5.0
STR, Ib: B'(ft), q ₀ (ksf)	4.3, 1.6	4.1, 2.0	4.3, 2.4	4.5, 2.8	5.5, 2.9	6.9, 2.9	8.2, 3.0	9.0, 3.4	10.4, 3.5	13.2, 3.4	14.8, 3.5	16.9, 3.6	18.0, 3.9	20.1, 4.1
STR, IIa: B'(ft), q ₀ (ksf)	4.3, 2.1	4.8, 2.4	5.5, 2.5	6.2, 2.8	7.4, 2.9	9.1, 3.0	10.4, 3.2	11.5, 3.7	13.3, 3.7	16.1, 3.8	18.0, 4.0	20.3, 4.2	21.6, 4.6	23.8, 4.9
STR, IIb: B'(ft), q ₀ (ksf)	3.2, 2.1	3.6, 2.3	4.2, 2.4	4.7, 2.6	5.9, 2.7	7.4, 2.7	8.6, 2.8	9.5, 3.1	11.2, 3.0	14.0, 3.2	15.8, 3.3	17.9, 3.4	19.1, 3.7	21.2, 3.9
STR, Va: B'(ft), q ₀ (ksf)	5.9, 2.0	5.9, 2.3	6.4, 2.6	6.8, 2.9	7.9, 3.1	9.4, 3.2	10.6, 3.4	11.7, 3.9	13.4, 3.9	16.1, 4.0	18.0, 4.2	20.2, 4.5	21.5, 4.9	23.7, 5.1
STR, Vb: B'(ft), q ₀ (ksf)	3.8, 1.7	3.8, 2.1	4.2, 2.5	4.4, 2.8	5.5, 2.9	7.0, 2.9	8.2, 3.0	9.0, 3.3	10.5, 3.4	13.3, 3.3	15.0, 3.5	17.1, 3.6	18.2, 3.9	20.3, 4.0
Ext I: B'(ft), q ₀ (ksf)	2.5, 2.8	2.0, 4.3	1.7, 6.4	1.2, 10.9	1.3, 13.3	1.7, 12.4	1.9, 13.2	1.9, 17.6	2.5, 15.0	4.5, 10.2	5.3, 10.0	6.6, 9.6	6.8, 10.8	8.1, 10.5
Ext II: B'(ft), q ₀ (ksf)	1.4, 4.9	2.5, 3.5	3.8, 2.8	4.9, 2.7	6.6, 2.5	8.6, 2.5	10.1, 2.5	11.5, 2.6	13.5, 2.8	16.4, 2.8	18.4, 2.9	20.7, 3.1	22.1, 3.3	24.4, 3.5

LEGEND:
 SER: service limit state
 STR: strength limit state
 EXT: extreme event limit state
 B': effective footing width (ft)
 q₀: net bearing stress (ksf)
 q₀: gross uniform bearing stress (ksf)
 Ø: 2 bar bundle



LEGEND:
 STRUCTURAL EXCAVATION (RETAINING WALL)
 STRUCTURAL EXCAVATION (TYPE Y-1) (AERIALY DEPOSITED LEAD)

1 LIMITS OF PAYMENT FOR EXCAVATION
 3/8" = 1'-0"

STANDARD DRAWING
 FILE NO. **xs14-220-2**
 APPROVAL DATE December 2012

1 Added Detail

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53E0320
 POST MILE 37.42/37.48
RETAINING WALL NO. 1975
RETAINING WALL TYPE 1 SWB-DETAILS NO. 2

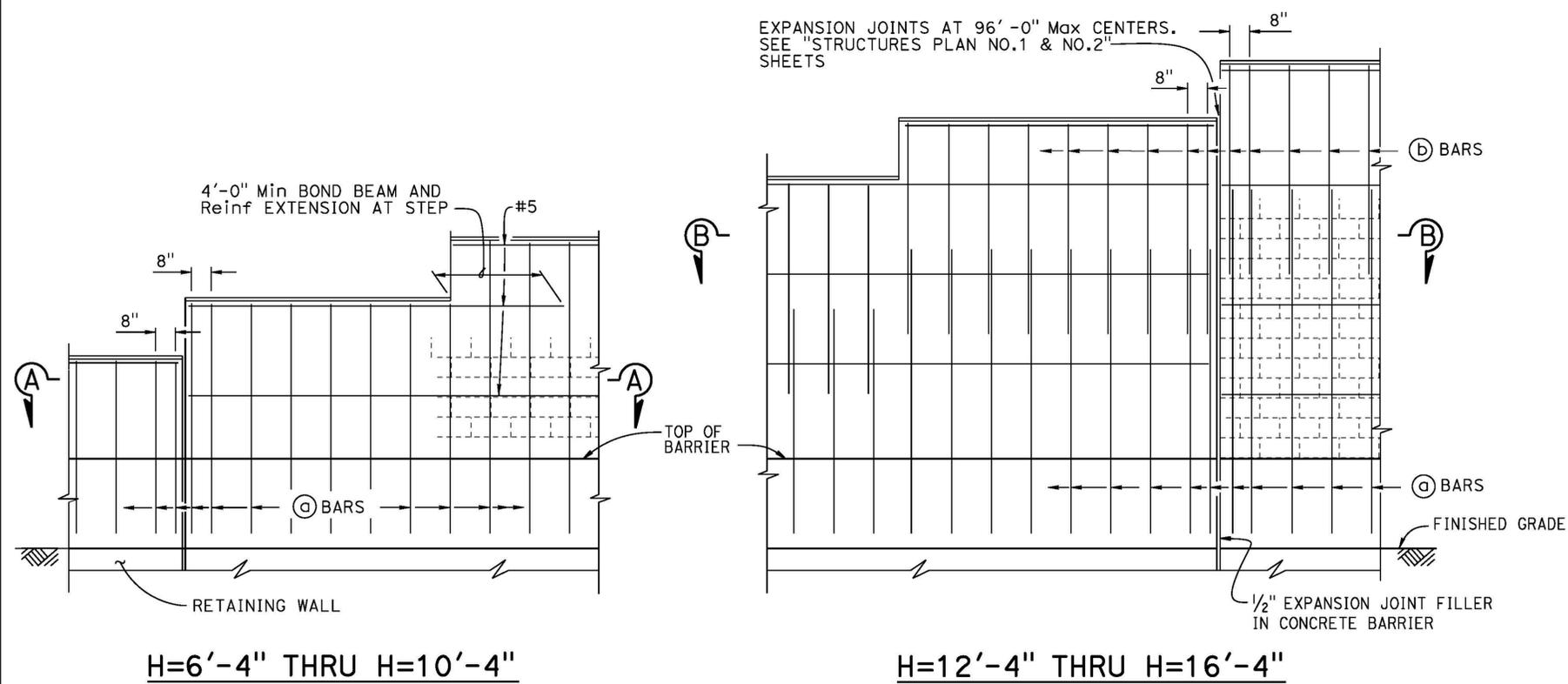
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1744	2313

V. Ramakrishnan 10-01-14
REGISTERED CIVIL ENGINEER DATE

6-1-15
PLANS APPROVAL DATE

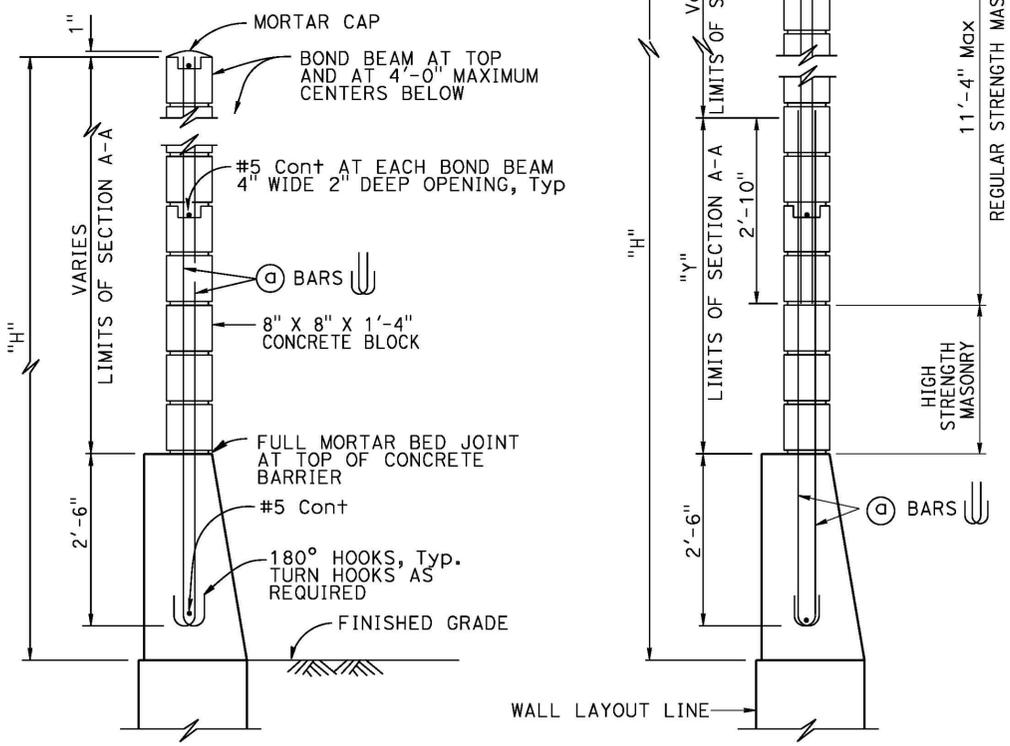
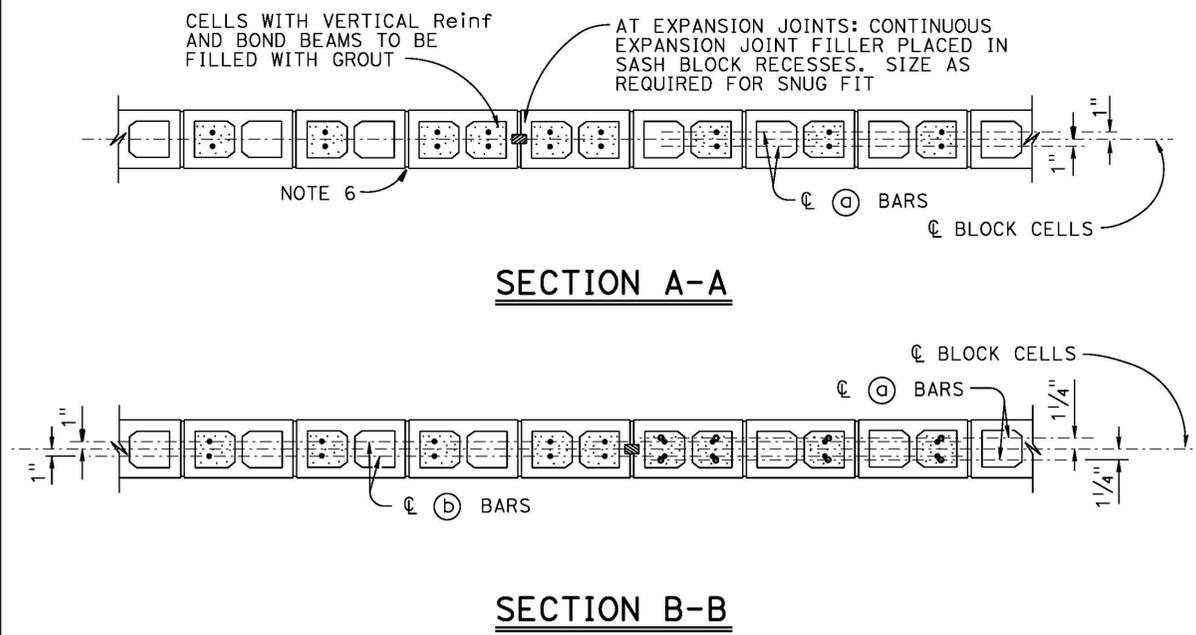
REGISTERED PROFESSIONAL ENGINEER
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MAXIMUM "H"	(A) BARS @ 1'-4" Max	(B) BARS @ 1'-4" Max	"Y"	f'm (psi)	COMPRESSIVE STRENGTH OF CMU (psi)	MAXIMUM "H"
6'-4"	#4	---	---	1500	1900	6'-4"
8'-4"	#4	---	---	1500	1900	8'-4"
10'-4"	#4	---	---	1500	1900	10'-4"
12'-4"	#5	#4	5'-0"	1500	1900	12'-4"
14'-4"	#6	#4	7'-0"	1500	1900	14'-4"
16'-4"	#6	#4	9'-0"	2500	3700	16'-4"

PART ELEVATION



- NOTES:
- For details not shown, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL - DETAILS NO. 2" sheet
 - Slope ground at traffic side of barrier to drain. Maximum slope ±10%
 - See STANDARD PLANS B15-9 for other details
 - For type of block and joint finish, see other sheets
 - When blocks are laid in stacked bond, ladder type, galvanized joint reinforcement shall be provided. A minimum of 2-9 gauge wire continuous at 4'-0" maximum to be used. Locate reinforcement in joints that are at the approximate midpoint between bond beams
 - Horizontal joints shall be tooled concave or may be weathered. Vertical joints shall be tooled concave or may be raked
 - For intermediate wall heights that are between the "H's" given, use the tabular information for the next higher "H"
 - Masonry strengths are listed in "SOUND WALL REINFORCEMENT TABLE"
 - Concrete to be used for the barrier shall contain not less than 590 pounds of cementitious material per cubic yard

H=6'-4" THRU H=10'-4" H=12'-4" THRU H=16'-4"

For details not shown, see H=12'-4" thru H=16'-4" For details not shown, see H=6'-4" thru H=10'-4"

TYPICAL SECTION

NO SCALE

RETAINING WALL 1975

MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL

DETAILS NO. 1

STANDARD DRAWING

FILE NO. **xs15-130-1**

APPROVAL DATE July 2012

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53E0320

POST MILE 37.42/37.48

UNIT: 3613 PROJECT NUMBER & PHASE: 07130000071 CONTRACT NO.: 07-1193U1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
07-27-14 09-09-14 02-06-14 02-20-14	7	11

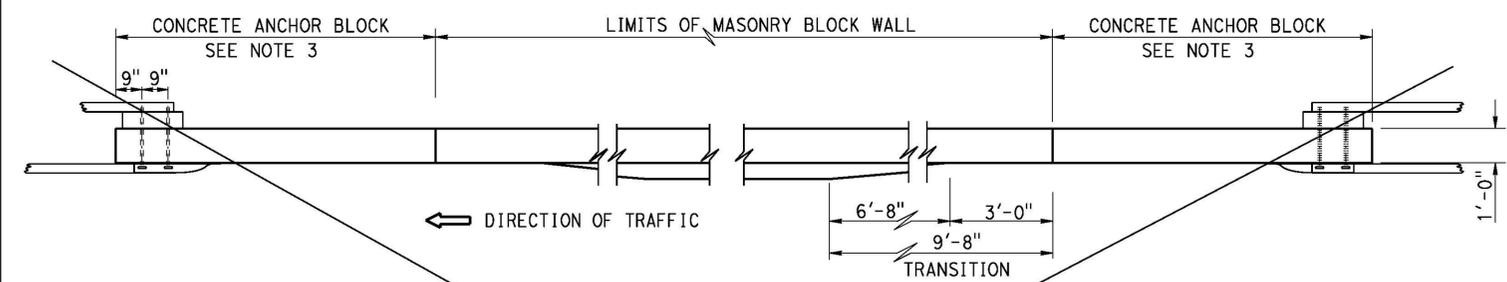
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1745	2313

V. Ramakrishnan
REGISTERED CIVIL ENGINEER DATE 10-01-14

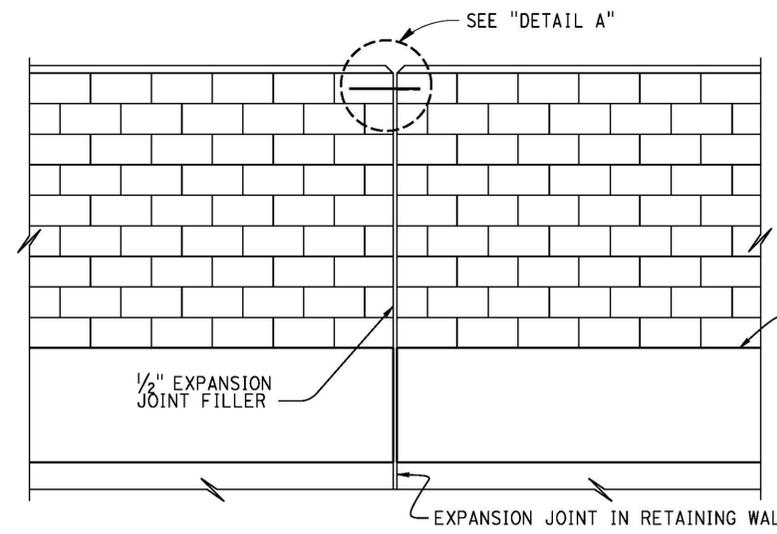
6-1-15
PLANS APPROVAL DATE

VIJAYARANI RAMAKRISHNAN
No. C63091
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

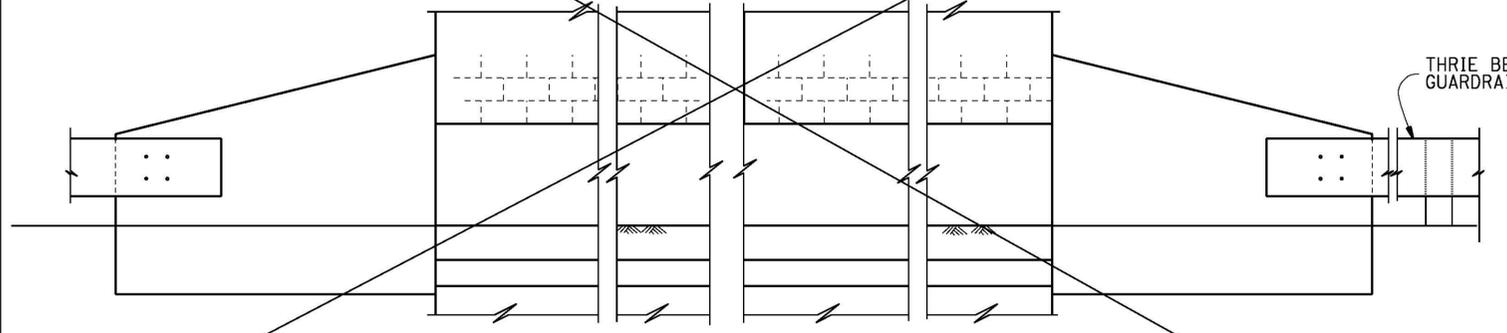
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PLAN

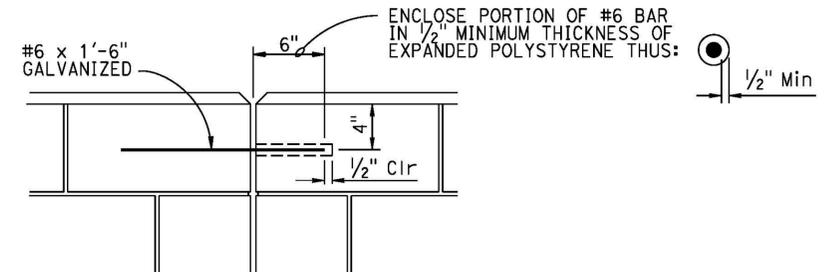


ALIGNMENT KEY DETAIL



ELEVATION

METAL BEAM GUARDRAIL ANCHORAGE
For details not shown, see STANDARD PLAN B11-56



DETAIL A

DESIGN NOTES

DESIGN
Uniform Building Code, 1997 Edition and the Bridge Design Specifications

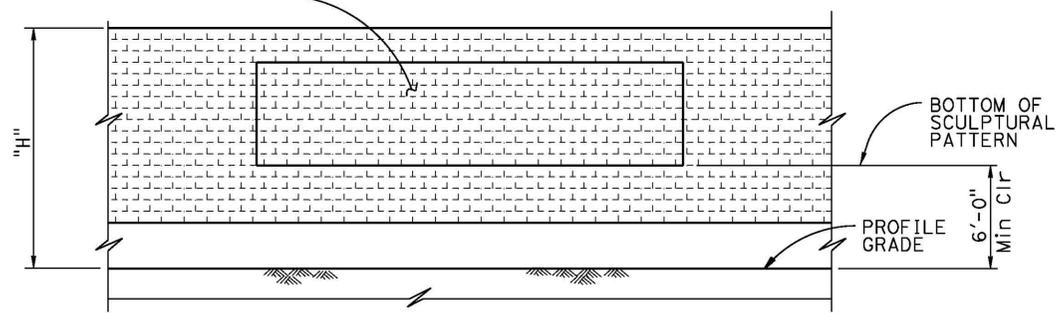
DESIGN WIND LOAD
33 psf

DESIGN SEISMIC LOAD
0.57 Dead load

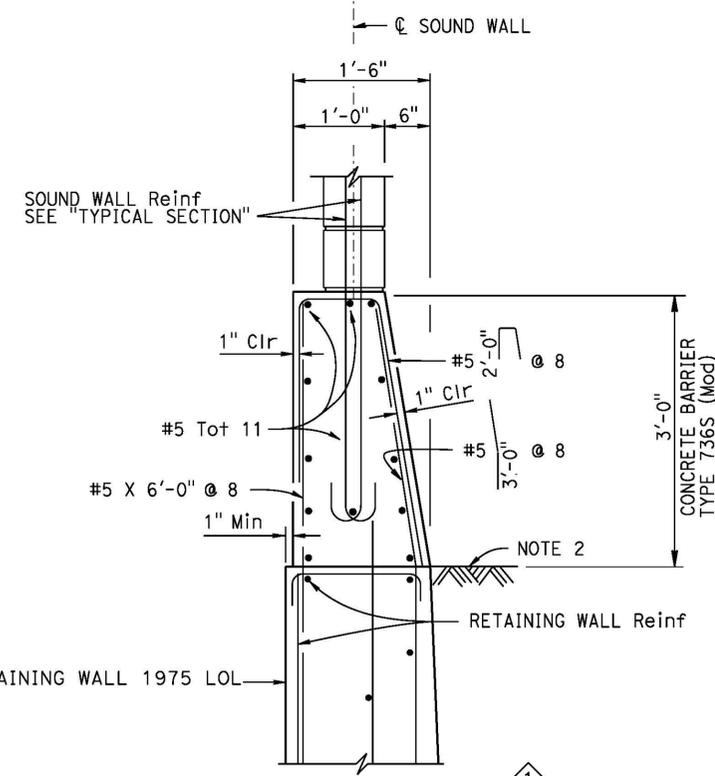
REINFORCED CONCRETE	REGULAR STRENGTH	HIGH STRENGTH	
f'c = 3600 psi	f'm = 1500 psi	f'm = 2000 psi	f'm = 2500 psi
fy = 60 ksi	fb = 495 psi	fb = 660 psi	fb = 830 psi
	fs = 24,000 psi	fs = 24,000 psi	fs = 24,000 psi
	n = 25.8	n = 19.3	n = 15.5

- NOTES:
- For details not shown, see STANDARD PLAN B15-6
 - Slope ground at traffic side of barrier to drain. Maximum slope ±10%. See STANDARD PLAN B11-56, Note 3
 - For Concrete Anchor Block and connection details, see "ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION, DETAIL C" on STANDARD PLAN A77J3

SCULPTURAL PATTERN DETAILS, FOR MORE DETAILS SEE "ROAD PLANS"



CLEARANCE DETAIL



BARRIER SECTION

RETAINING WALL 1975

MASONRY BLOCK SOUND WALL WITH BARRIER ON RETAINING WALL
DETAILS NO. 2

STANDARD DRAWING
FILE NO. **xs15-130-2**
APPROVAL DATE July 2011

- ① MODIFIED DETAIL
- ② MODIFIED NOTES
- ③ DELETED DETAILS

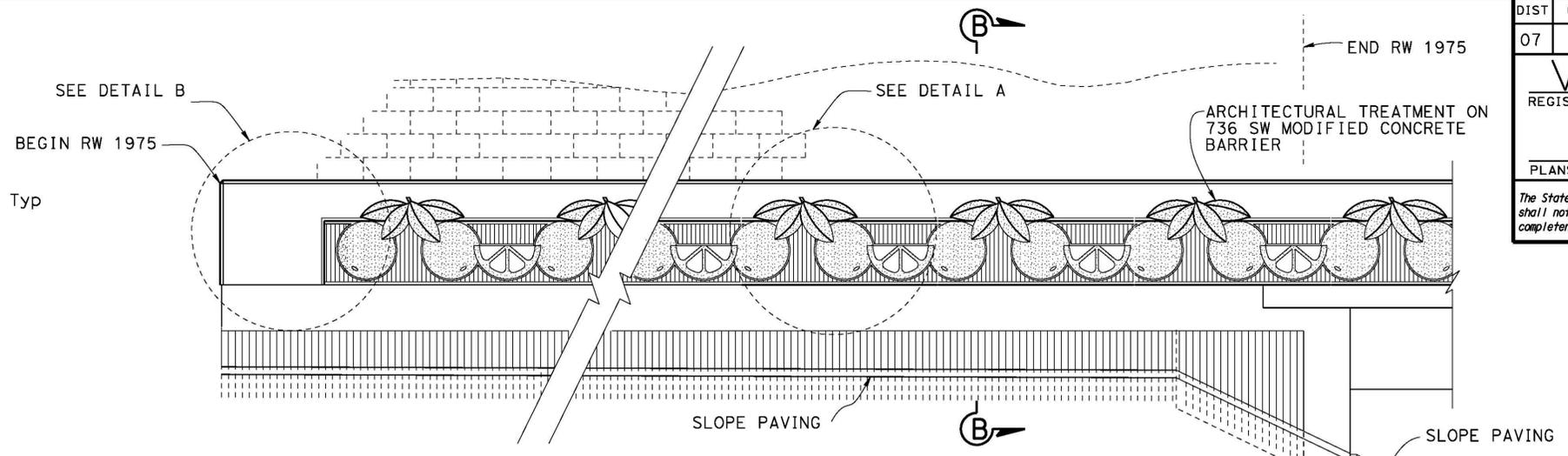
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53E0320
POST MILE 37.42/37.48

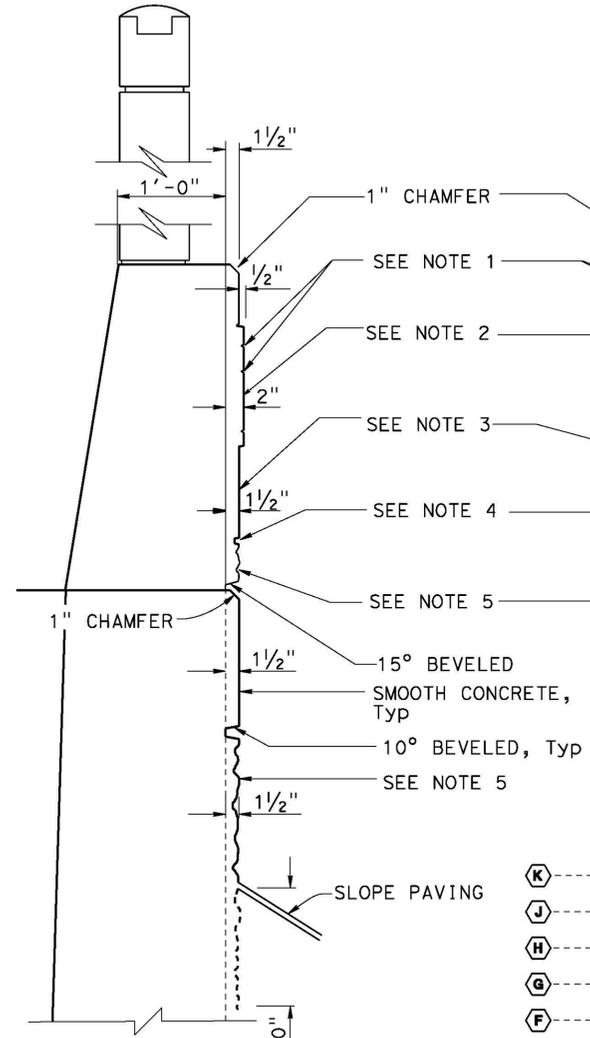
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1746	2313
V. Ramakrishnan		10-01-14		REGISTERED CIVIL ENGINEER DATE	
6-1-15		PLANS APPROVAL DATE			
REGISTERED PROFESSIONAL ENGINEER VIJAYARANI RAMAKRISHNAN No. C63091 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA					
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NOTES:

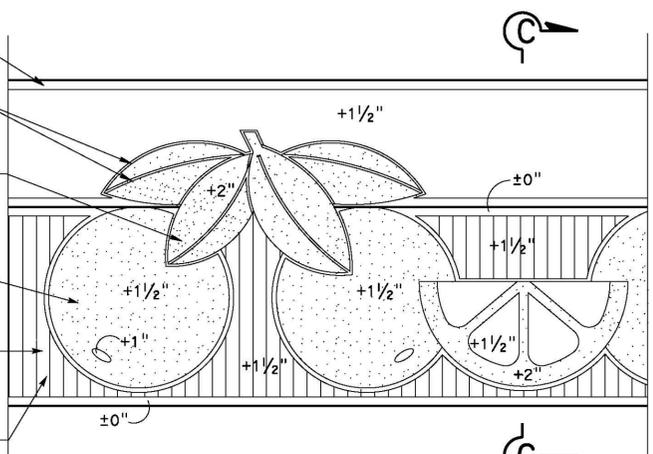
1. Leaf Vain & Edge 1/4" V Grooves, Typ
2. Leaf Surface light Sandblast, Texture, Typ
3. Orange Surface Heavy Sandblast Texture, Typ
4. 1/2" wide Groove between Ribs and Orange, Typ
5. Fractured Rib Texture, Typ



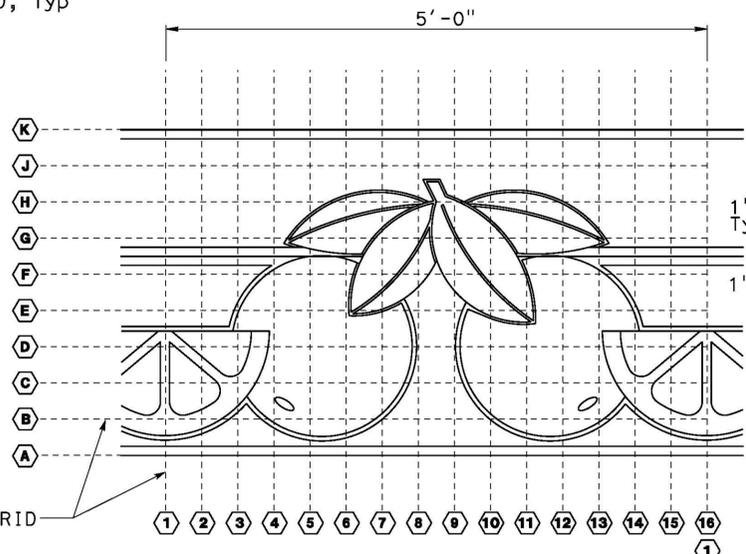
ELEVATION ARCHITECTURAL TREATMENT
No Scale



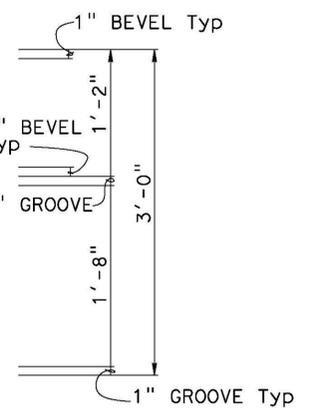
SECTION B-B
No Scale



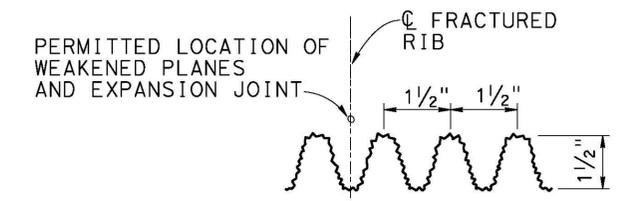
DETAIL A
No Scale



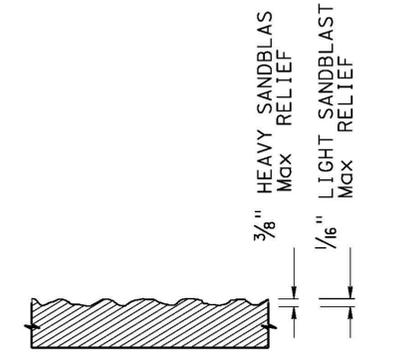
ORANGE MOTIF
No Scale



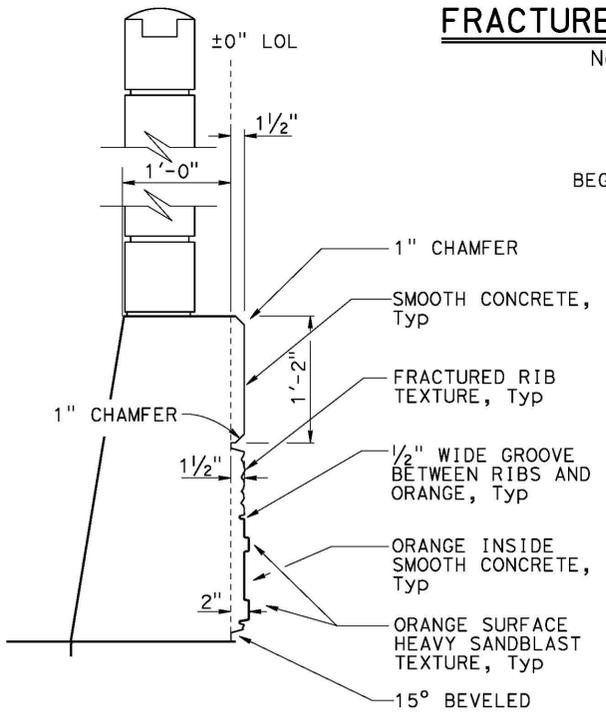
SECTION C-C
No Scale



FRACTURED RIB DETAIL
No Scale



SANDBLAST DETAIL
No Scale



DETAIL B BARRIER ENDING TYPICAL
No Scale

DESIGN	BY V. Moore	CHECKED V. Ramakrishnan
DETAILS	BY V. Moore	CHECKED V. Ramakrishnan
QUANTITIES	BY V. Ramakrishnan	CHECKED J. Lane

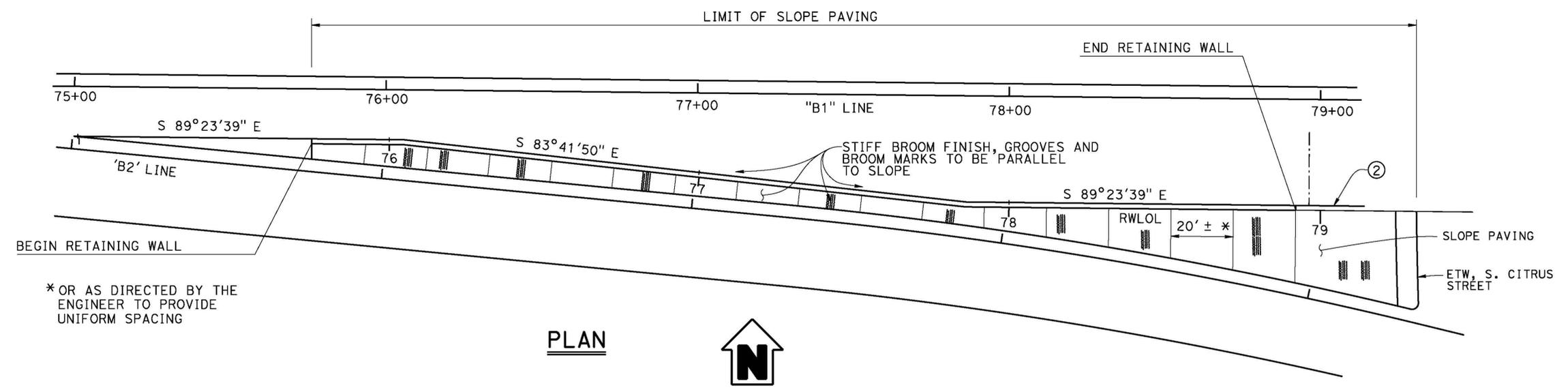
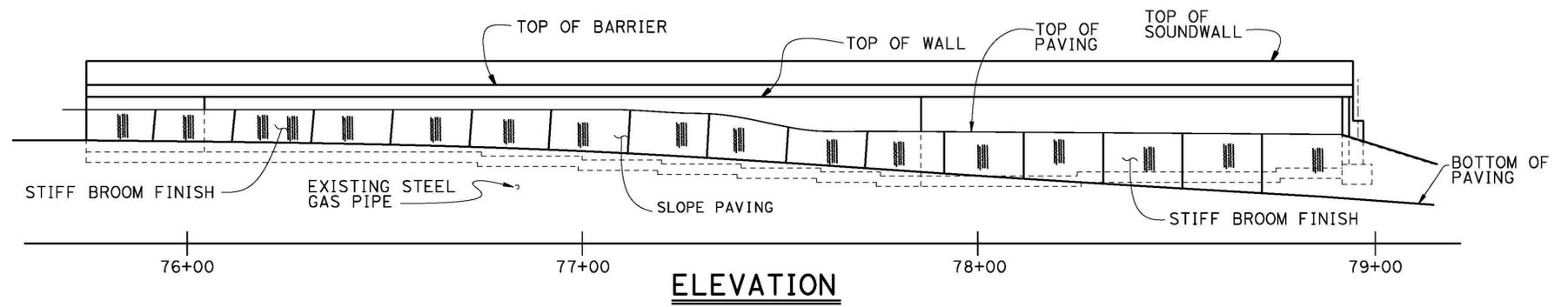
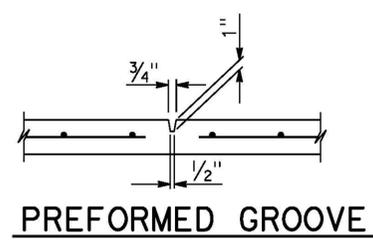
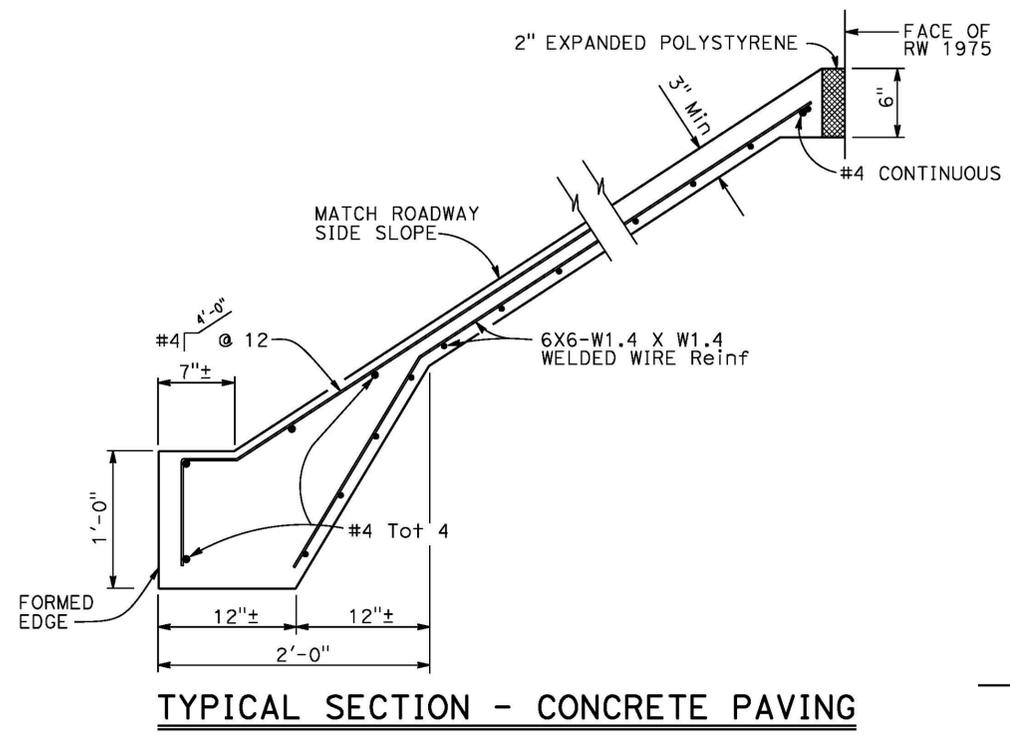
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 14

BRIDGE NO.	53E0320
POST MILE	37.42/37.48

RETAINING WALL 1975
ARCHITECTURAL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1747	2313
V. Ramakrishnan			10-01-14	REGISTERED CIVIL ENGINEER DATE	
6-1-15			PLANS APPROVAL DATE		
REGISTERED PROFESSIONAL ENGINEER VIJAYARAM RAMAKRISHNAN No. C63091 Exp. 06-30-16 CIVIL STATE OF CALIFORNIA					
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* OR AS DIRECTED BY THE ENGINEER TO PROVIDE UNIFORM SPACING

NO SCALE

DESIGN	BY V. Ramakrishnan	CHECKED J. Lane
DETAILS	BY L. Xiong	CHECKED J. Lane
QUANTITIES	BY V. Ramakrishnan	CHECKED J. Lane

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 14

BRIDGE NO.	53E0320
POST MILE	37.42/37.48

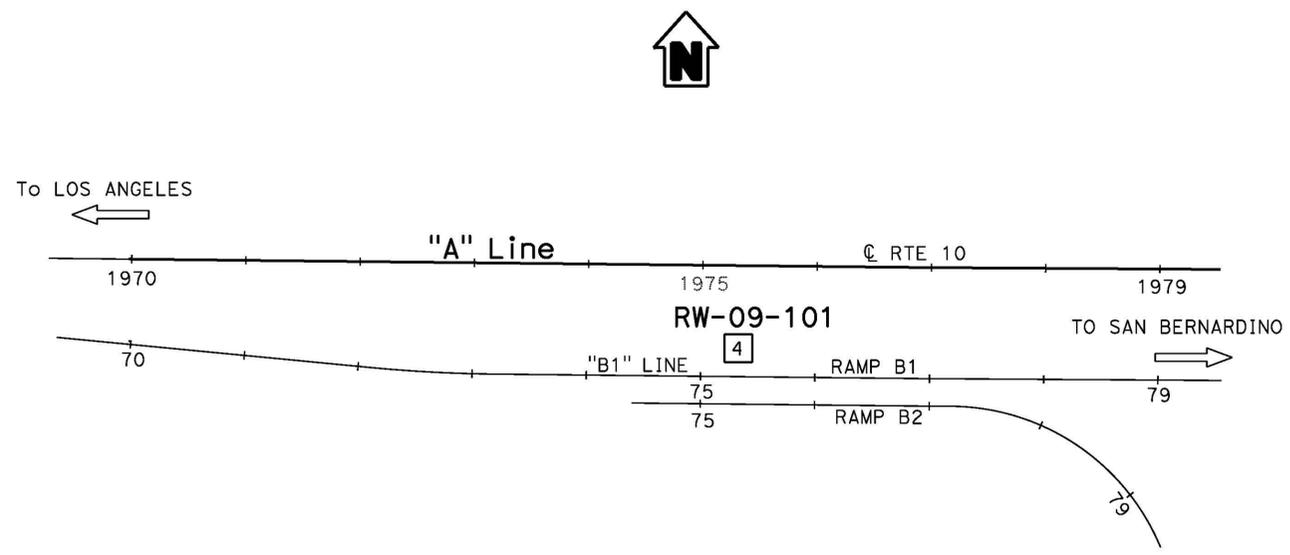
RETAINING WALL 1975
SLOPE PAVING

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	10	37.2/42.4	1748	2313


 CERTIFIED ENGINEERING GEOLOGIST DATE 1-16-14
 No. 2462
 Exp. 2-28-15
 PLANS APPROVAL DATE 6-1-15
 PROFESSIONAL GEOLOGIST
 Michael A. Salisbury
 No. 2462
 Exp. 2-28-15
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA
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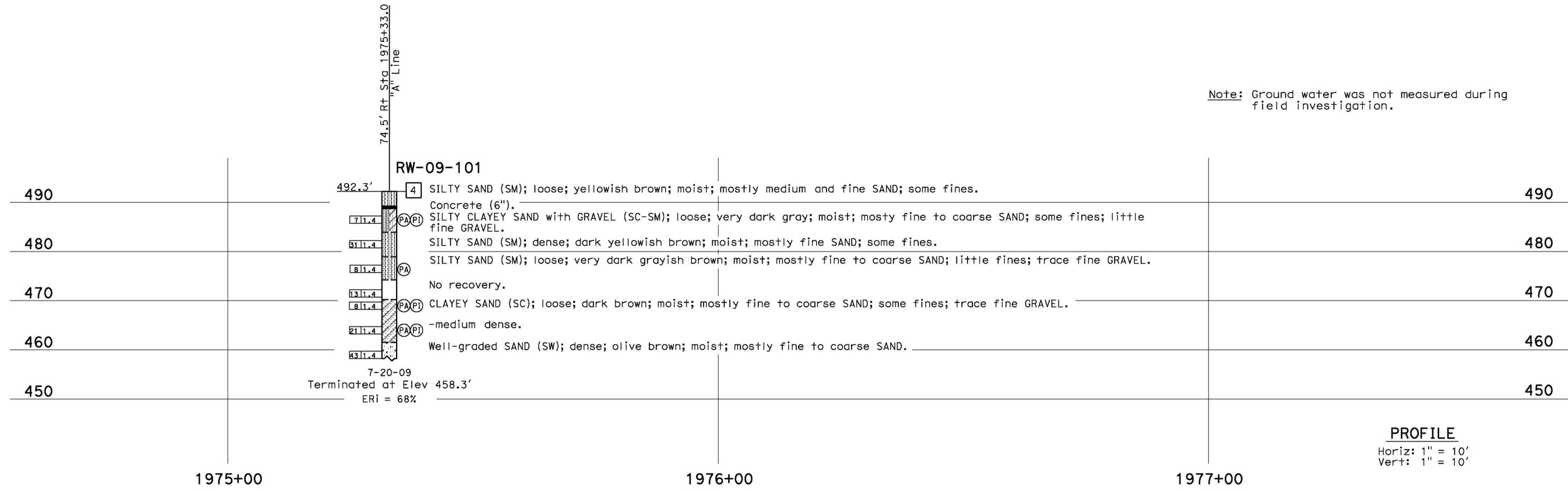
BENCH MARK

SUHV 32608 Elev 492.05'
 Fd Pk N in Citrus E/B Off-Ramp Gore,
 "A" Line Sta 1972+91.2 Rt 65.97'
 NAVD 88



PLAN
 1" = 80'

Note: Ground water was not measured during field investigation.



PROFILE
 Horiz: 1" = 10'
 Vert: 1" = 10'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL NO. 1975	
FUNCTIONAL SUPERVISOR		DRAWN BY: W. Tang 5/10, I.G-Remmen		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		53E0320		LOG OF TEST BORINGS	
NAME: D. Jang		CHECKED BY: H. Liu		FIELD INVESTIGATION BY:		DESIGN BRANCH 14		POST MILE			
				Y. Choi/C. Bugarin				37.42/37.48			
OGS CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3643		PROJECT NUMBER & PHASE: 0713000071		CONTRACT NO.: 07-1193U1		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
				0 1 2 3		FILE => rw1975-u-1otb.dgn				REVISION DATES	
										SHEET 11 OF 11	

USERNAME => s125624 DATE PLOTTED => 18-MAY-2015 TIME PLOTTED => 14:24