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STRUCTURE PLANS

25-31	COLOMA STREET PEDESTRIAN OC Br No. 25-0050
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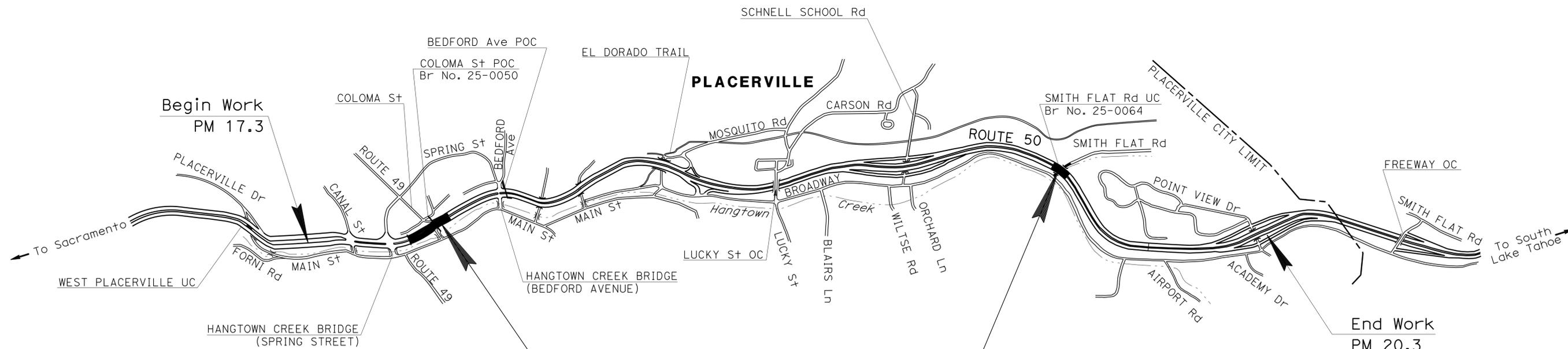
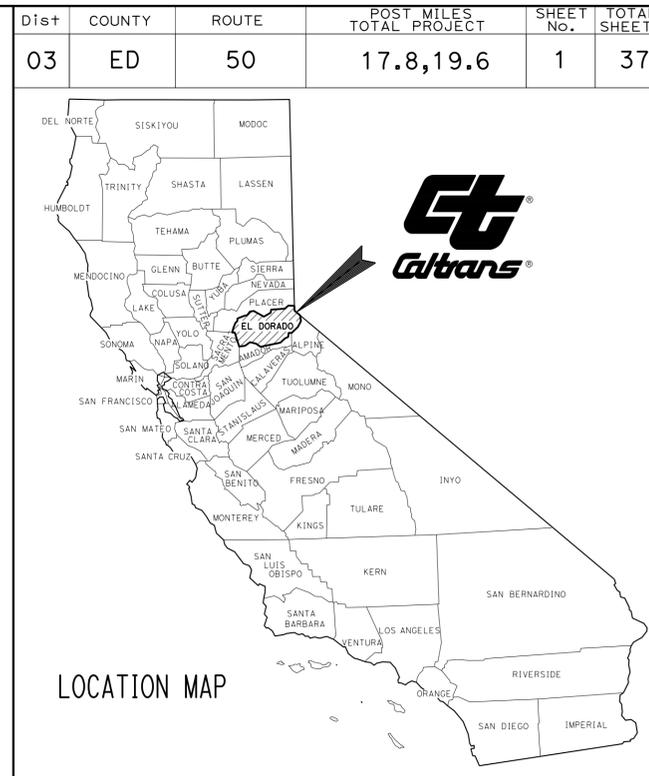
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

BH-P050(121)E

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN EL DORADO COUNTY
IN PLACERVILLE
AT COLOMA STREET PEDESTRIAN OVERCROSSING
AND AT SMITH FLAT ROAD UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION OF CONSTRUCTION
COLOMA STREET POC
Br No. 25-0050 PM 17.8

LOCATION OF CONSTRUCTION
SMITH FLAT ROAD UC
Br No. 25-0064 PM 19.6

Huan M. Cung
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER
DATE 12-5-12

March 11, 2013
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.



PROJECT MANAGER
JOHN HOLDER

DESIGN ENGINEER
NESAR FORMOLI

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	3	37

REGISTERED CIVIL ENGINEER
 HUAN M. CUNG
 No. C74406
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

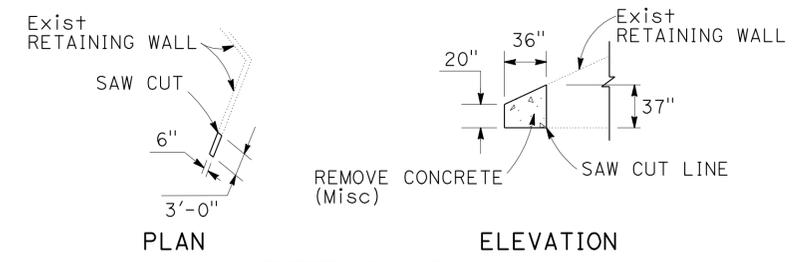
12-5-12 DATE
 3-11-13 PLANS APPROVAL DATE

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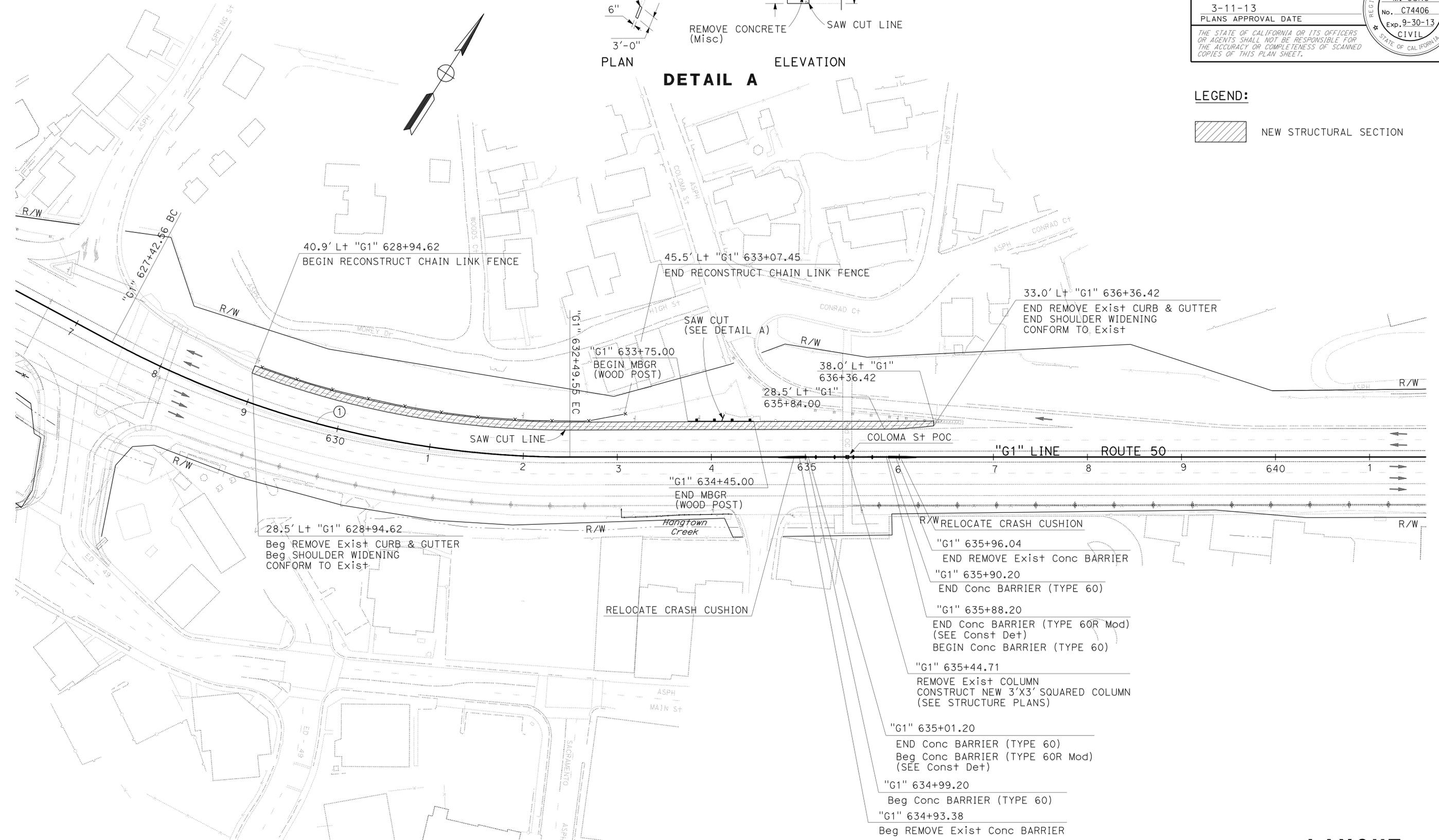
LEGEND:

 NEW STRUCTURAL SECTION

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



DETAIL A



CURVE DATA

No.	R	Δ	T	L
①	1032'	28° 8' 30"	258.72'	506.99'

LAYOUT
 SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR: NESAR FORMOLI
 CALCULATED/DESIGNED BY: HUAN CUNG
 CHECKED BY: HUAN CUNG
 REVISED BY: HUAN CUNG
 DATE REVISED:

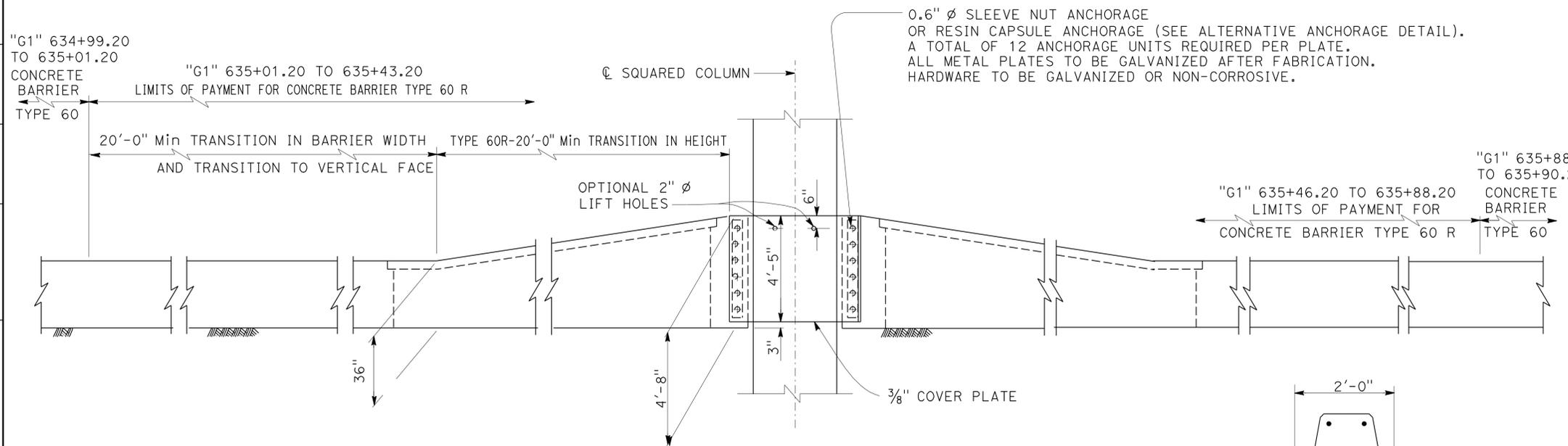
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 00-00-00 TIME PLOTTED => 12:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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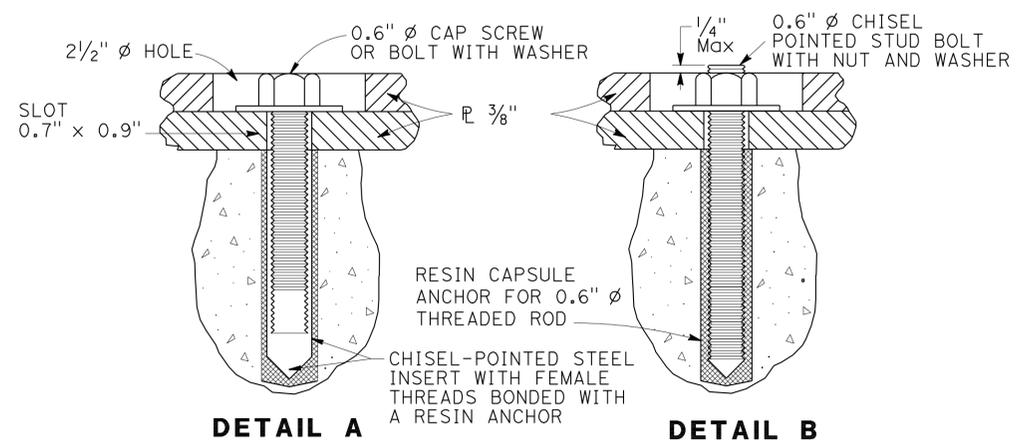
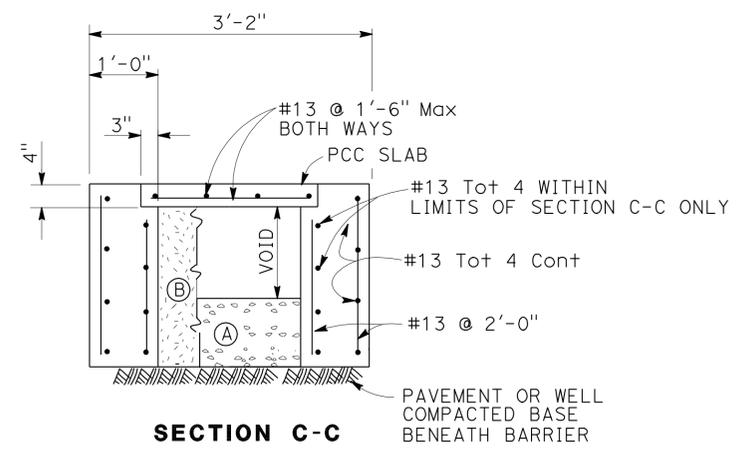
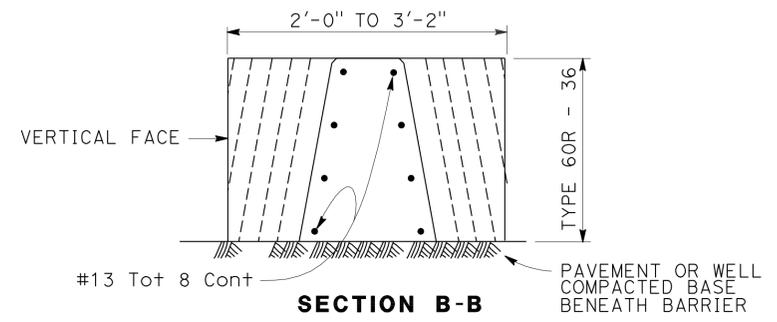
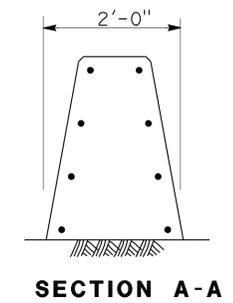
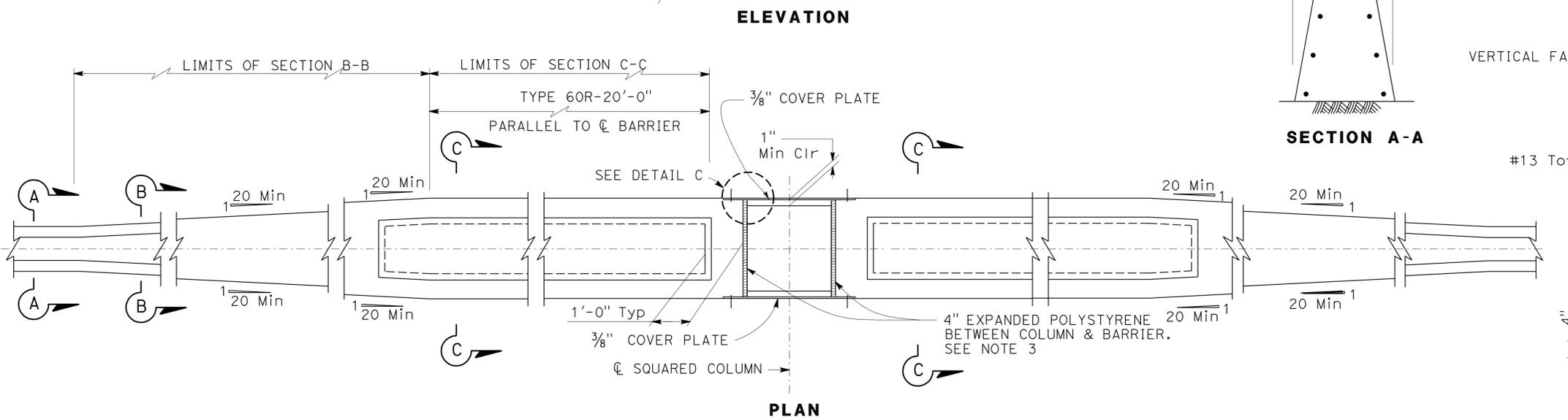
<i>Cung</i>	12-5-12
REGISTERED CIVIL ENGINEER	DATE
3-11-13	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
HUAN M. CUNG
No. C74406
Exp. 9-30-13
CIVIL

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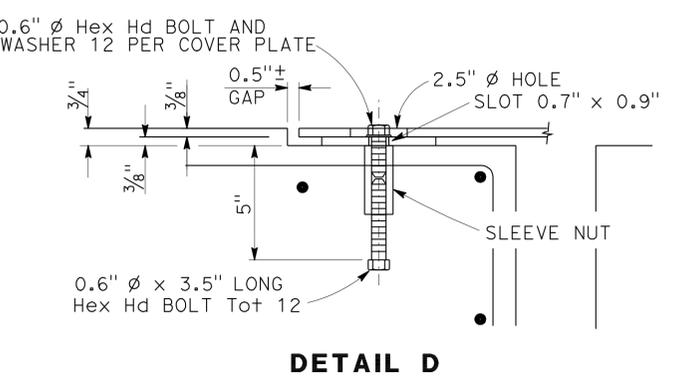
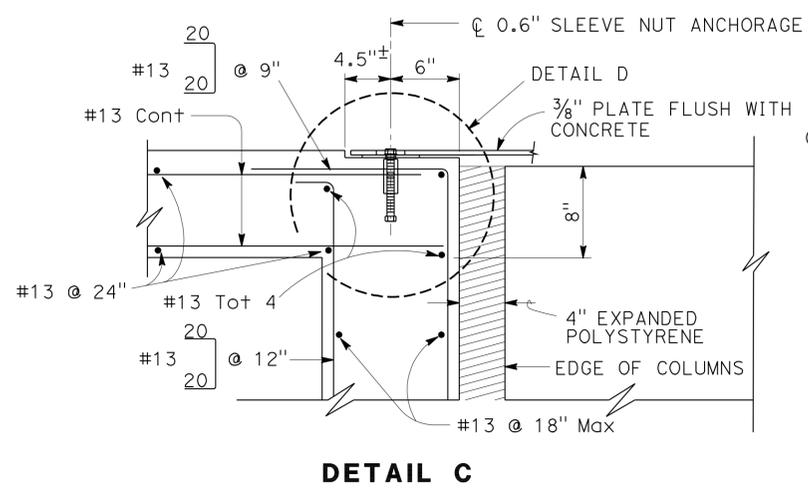


- NOTES:**
- CONTRACTOR OPTIONS FOR FILL BETWEEN BARRIER WALLS.
 - (A) PLACE 2'-0" PCC AT BASE BETWEEN BARRIER WALLS.
 - (B) PLACE GRANULAR MATERIAL FROM BASE TO BOTTOM OF 4" CAP.
 - FORMING MATERIAL FOR 4" CAP MAY REMAIN IN PLACE.
 - ENCLOSE COLUMN WITH 4" EXPANDED POLYSTYRENE AT LOCATIONS WHERE CONCRETE OR CEMENT TREATED BASE ENCASES THE COLUMN.
 - ALL CONCRETE BARRIER REINFORCEMENT SHALL BE EPOXY COATED.
 - FOR DETAILS NOT SHOWN, SEE STANDARD PLANS A76A, A76B.



ALTERNATIVE ANCHORAGE

- NOTES: 1) RESIN CAPSULE ANCHORAGE IS SUBJECT TO APPROVAL OF THE ENGINEER. INSTALLATION PROCEDURES SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS.
- 2) DETAIL B SIMILAR TO DETAIL A EXCEPT FOR ANCHORAGE DEVICES.



CONCRETE BARRIER (TYPE 60R)

CONSTRUCTION DETAILS
NO SCALE
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: NESAR FORMOLI

DESIGNED BY: HUAN CUNG

CHECKED BY: HUAN CUNG

REVISOR: HUAN CUNG

DATE REVISOR: HUAN CUNG

DATE PLOTTED => 13-MAR-2013
TIME PLOTTED => 12:56

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	5	37

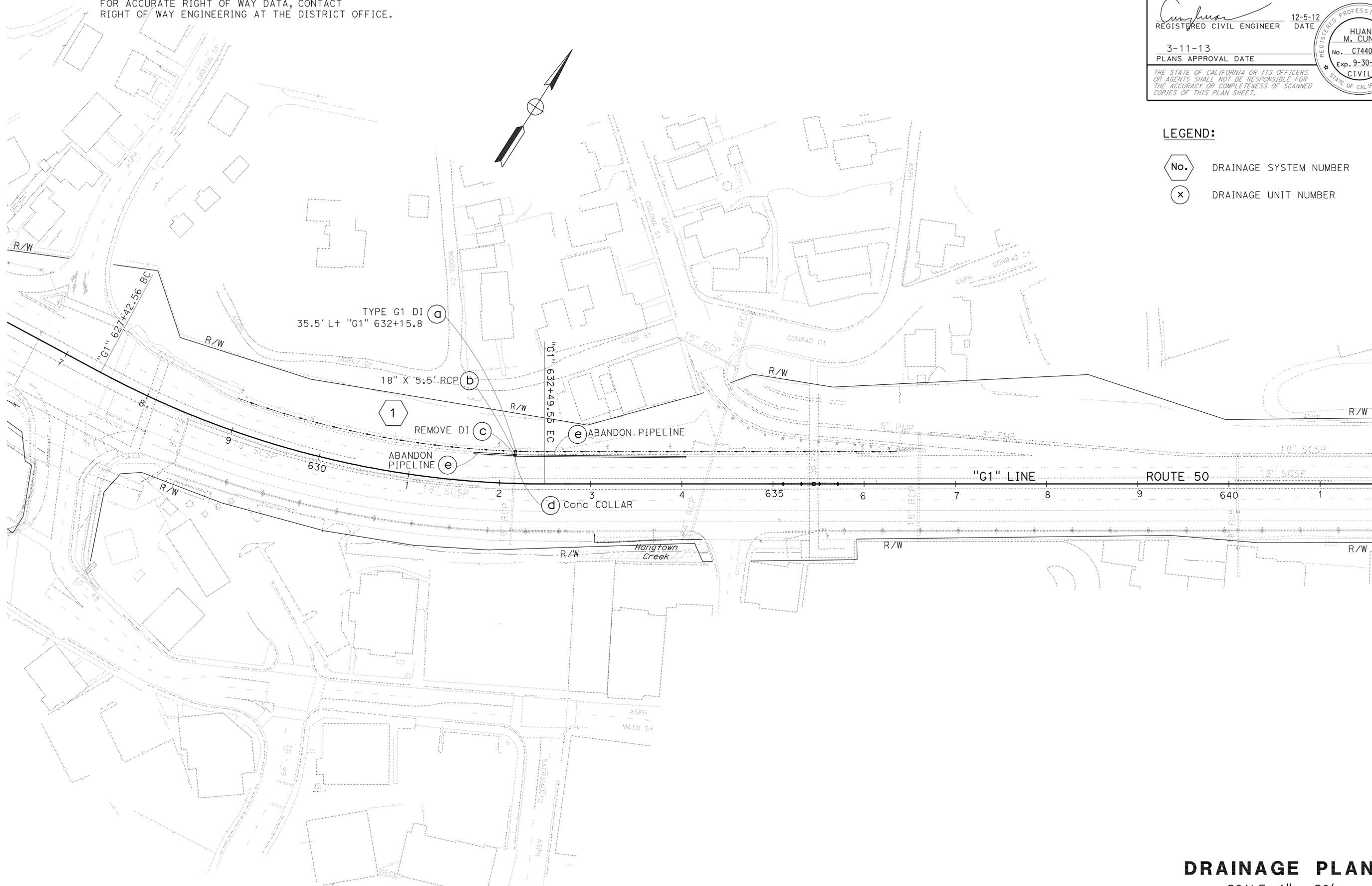
<i>Cung</i> REGISTERED CIVIL ENGINEER	12-5-12 DATE
3-11-13 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER HUAN M. CUNG No. C74406 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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LEGEND:

- DRAINAGE SYSTEM NUMBER
- DRAINAGE UNIT NUMBER



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR: NESAR FORMOLI
 CALCULATED/DESIGNED BY: HUAN CUNG
 CHECKED BY: HUAN CUNG
 REVISED BY: HUAN CUNG
 DATE REVISED:

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE PLAN
SCALE: 1" = 50'

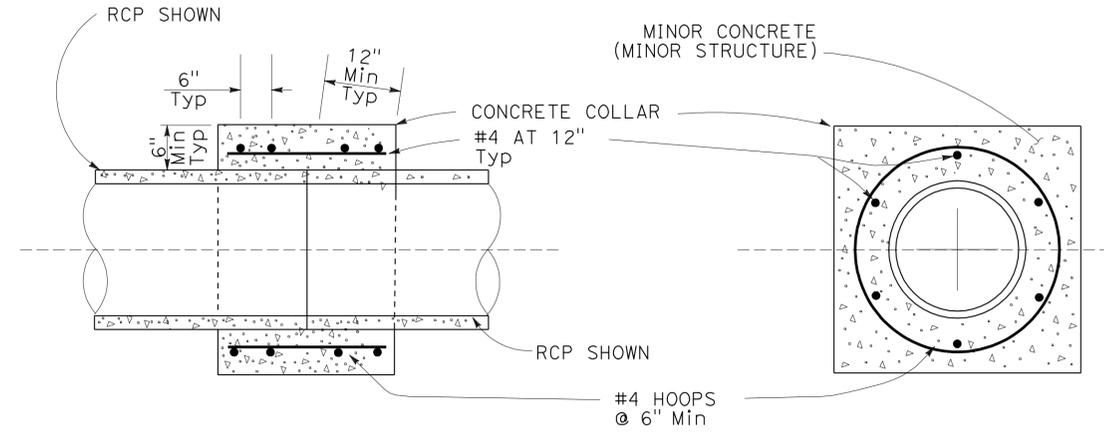
D-1

LAST REVISION: DATE PLOTTED => 13-MAR-2013
 00-00-00 TIME PLOTTED => 12:56

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE DRAINAGE INLET	ABANDON PIPELINE	18" REINFORCED CONCRETE PIPE	Misc IRON AND STEEL	MINOR CONCRETE (MINOR STRUCTURE)	CONCRETE COLLAR (N)	HEIGHT OF INLET (N)	HEIGHT OF COVER (N)	DESCRIPTION	STATION	DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
D-1	1	a	EA	EA	LF	LB	CY	EA	LF	LF			D-1	1	a
		b			5.5					1.0	G1 DI, GRATE TYPE 24-12X 18" RCP	"G1" 632+15.8			b
		c	1								REMOVE INLET				c
		d		1				1			CONCRETE COLLAR				d
		e	1	1	5.5	239	0.84				ABANDON 8" PERFORATED METAL PIPE	"G1" 631+67.40 TO 634+04.50			e
TOTAL															

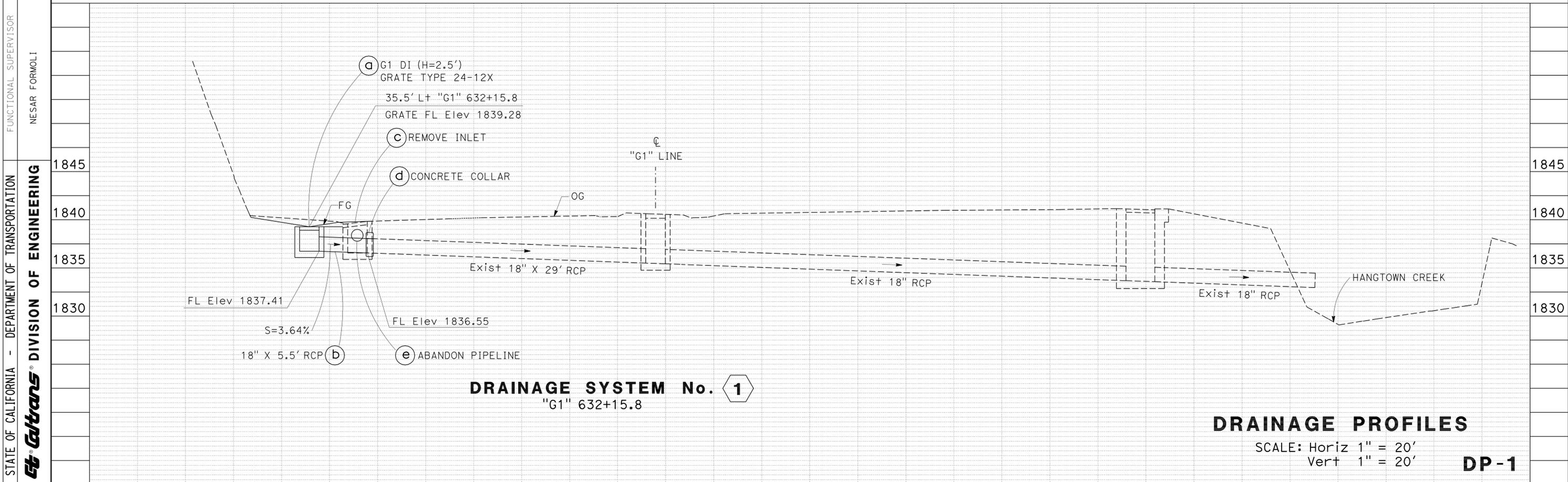
(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY



NOTES:

- PIPE EXTENSION SHALL BE POSITIONED TO PROVIDE FOR A SMOOTH TRANSITION AT THE PIPE FLOW LINE.
- INTERIOR FORM SHALL BE PLACED TO PREVENT CONCRETE INTRUSION INTO PIPE INTERIOR.
- USE AT ALL LOCATIONS INDICATED ON DRAINAGE PLANS

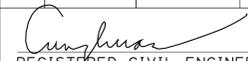
CONCRETE COLLAR DETAIL

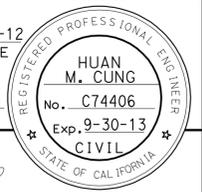


DRAINAGE PROFILES

SCALE: Horiz 1" = 20'
Vert 1" = 20'

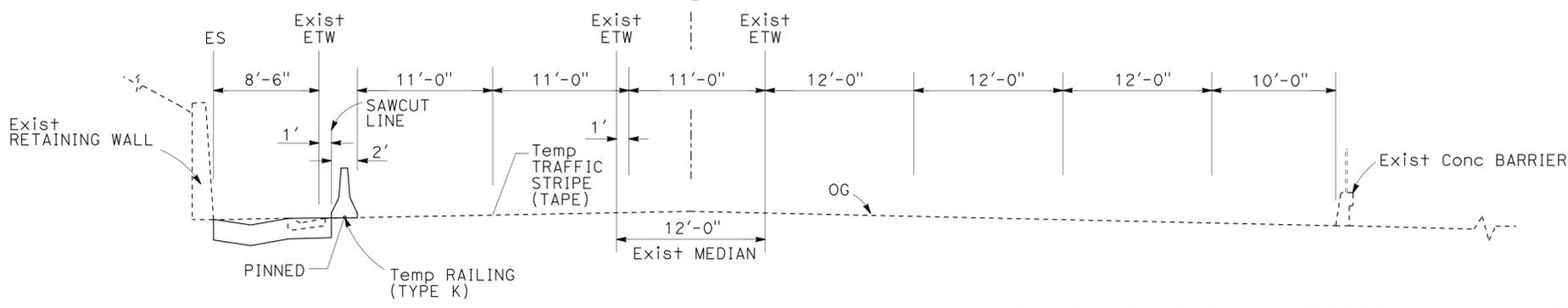
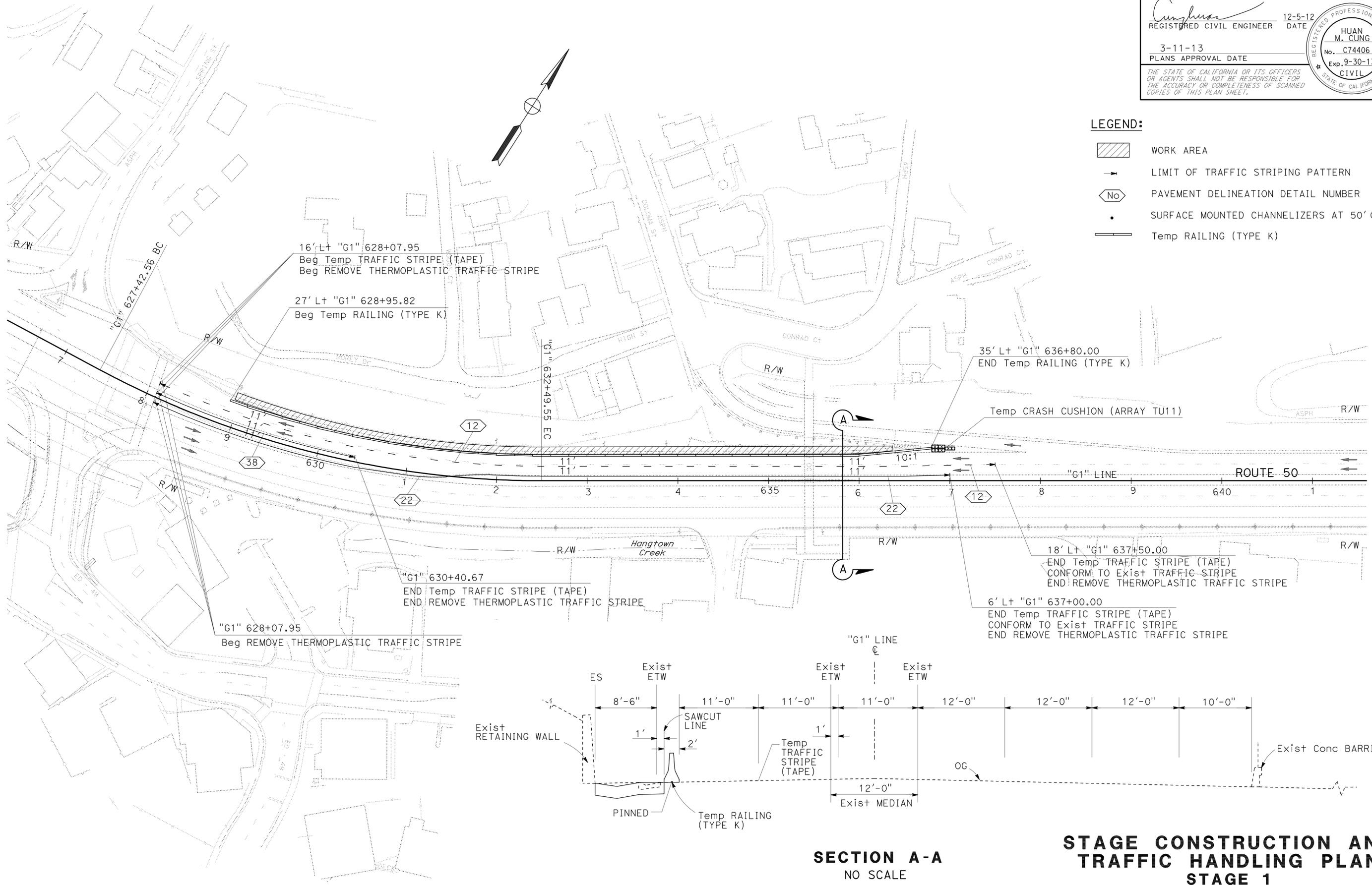
DP-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	8	37
 REGISTERED CIVIL ENGINEER			12-5-12	DATE	
3-11-13 PLANS APPROVAL DATE					
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LEGEND:

-  WORK AREA
-  LIMIT OF TRAFFIC STRIPING PATTERN
-  PAVEMENT DELINEATION DETAIL NUMBER
-  SURFACE MOUNTED CHANNELIZERS AT 50' O.C.
-  Temp RAILING (TYPE K)



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1" = 50'
SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

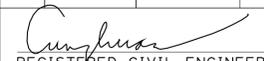
REVISOR: HUAN CUNG
 DATE: 3-11-13

CALCULATED/DESIGNED BY: HUAN CUNG
 CHECKED BY: HUAN CUNG

FUNCTIONAL SUPERVISOR: NESAR FORMOLI

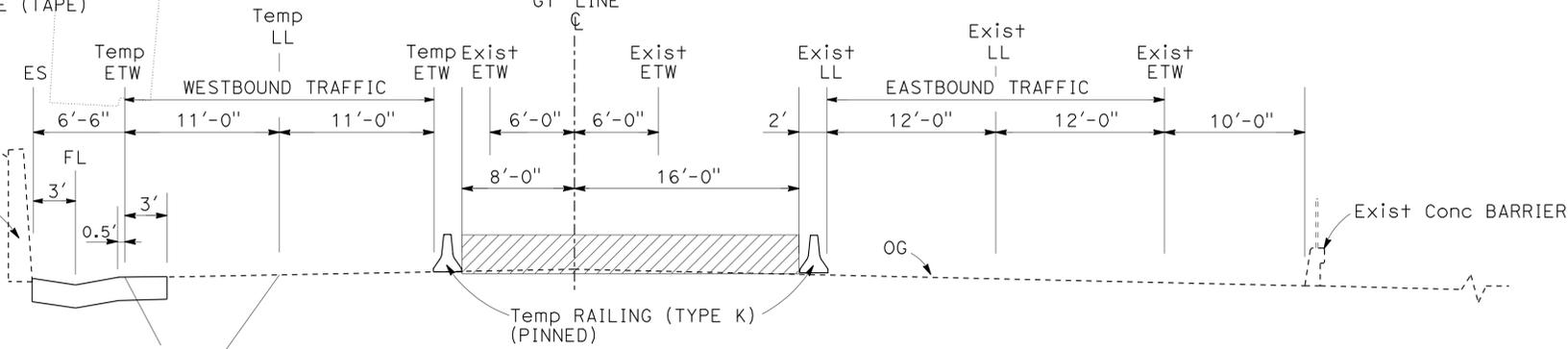
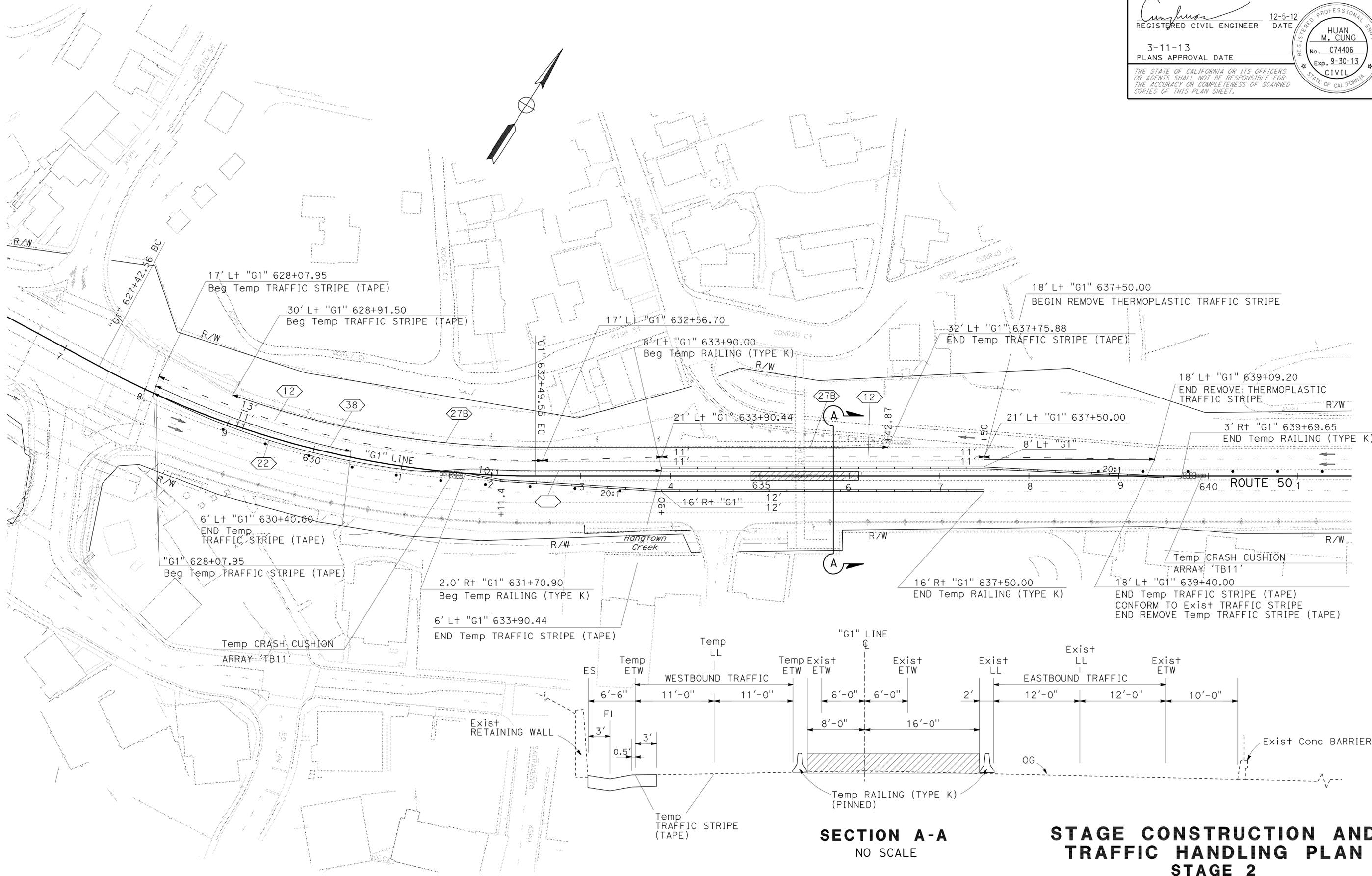
Caltrans logo and other project information.

LAST REVISION DATE PLOTTED => 13-MAR-2013
 00-00-00 TIME PLOTTED => 12:56

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	9	37
 REGISTERED CIVIL ENGINEER			12-5-12	DATE	
3-11-13 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>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans DIVISION OF ENGINEERING	NESAR FORMOLI	HUAN CUNG	HUAN CUNG
		CHECKED BY	DATE REVISOR

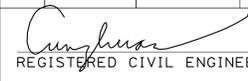


APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'

SC-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	10	37


 REGISTERED CIVIL ENGINEER DATE 12-5-12
 3-11-13
 PLANS APPROVAL DATE

HUAN M. CUNG
 No. C74406
 Exp. 9-30-13
 CIVIL ENGINEER
 STATE OF CALIFORNIA

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TEMPORARY TRAFFIC STRIPE (TAPE)

LOCATION	TEMPORARY TRAFFIC STRIPE(TAPE)				NOTES
	DETAIL 12	DETAIL 22	DETAIL 27B	DETAIL 38	
	LF	LF	LF	LF	
"G1" 628+07.95 TO 637+50.00	943				STAGE 1 WESTBOUND
"G1" 628+07.95 TO 637+00.00		893			STAGE 1 WESTBOUND
"G1" 628+07.95 TO 630+40.67				233	STAGE 1 WESTBOUND
"G1" 628+91.50 TO 637+75.88			885		STAGE 2 WESTBOUND
"G1" 628+07.95 TO 639+40.00	1,133				STAGE 2 WESTBOUND
"G1" 628+07.95 TO 633+90.44		583			STAGE 2 WESTBOUND
"G1" 628+07.95 TO 630+40.67				233	STAGE 2 WESTBOUND
SUBTOTAL	2,076	1,476	885	466	
TOTAL	4,903				

TEMPORARY RAILING (TYPE K)

LOCATION	TEMP RAILING (TYPE K)	NOTES
	LF	
"G1" 628+95.82 TO 636+80.00	785	STAGE 1 WESTBOUND
"G1" 631+70.90 TO 637+50.00	580	STAGE 2 EASTBOUND
"G1" 633+90.44 TO 639+69.65	580	STAGE 2 WESTBOUND
TOTAL	1,945	

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION	REMOVE THERMOPLASTIC TRAFFIC STRIPE				NOTES
	DETAIL 12	DETAIL 22	DETAIL 27B	DETAIL 38	
	LF	LF	LF	LF	
"G1" 628+07.95 TO 637+50.00	943				STAGE 1 WESTBOUND
"G1" 628+07.95 TO 637+00.00		893			STAGE 1 WESTBOUND
"G1" 628+07.95 TO 630+40.67				233	STAGE 1 WESTBOUND
"G1" 628+91.50 TO 637+75.88			885		STAGE 2 WESTBOUND
"G1" 637+50.00 TO 639+40.00	190				STAGE 2 WESTBOUND
SUBTOTAL	1,133	893	885	233	
TOTAL	3,144				

CHANNELIZER (SURFACE MOUNTED)

LOCATION	CHANNELIZER (SURFACE MOUNTED)	NOTES
	EA	
"G1" 629+00.00 TO 633+50.00	10	STAGE 2 EASTBOUND
"G1" 638+77.85 TO 641+27.85	6	STAGE 2 WESTBOUND
TOTAL	16	

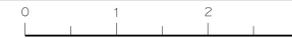
TEMPORARY CRASH CUSHION MODULE

LOCATION	STAGE	ARRAY TYPE	TEMPORARY CRASH CUSHION MODULE	REMARKS
			EA	
"G1" 636+80.00	1	TU11	11	FOR APPROACH END OF TEMPORARY RAILING (TYPE K)
"G1" 631+50.00	2	TB11	11	FOR APPROACH END OF TEMPORARY RAILING (TYPE K)
"G1" 639+90.44	2	TB11	11	FOR APPROACH END OF TEMPORARY RAILING (TYPE K)
TOTAL			33	

STAGE CONSTRUCTION QUANTITIES

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR NESAR FORMOLI
 CALCULATED/DESIGNED BY CHECKED BY
 HUAN CUNG HUAN CUNG
 REVISED BY DATE REVISD



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	11	37

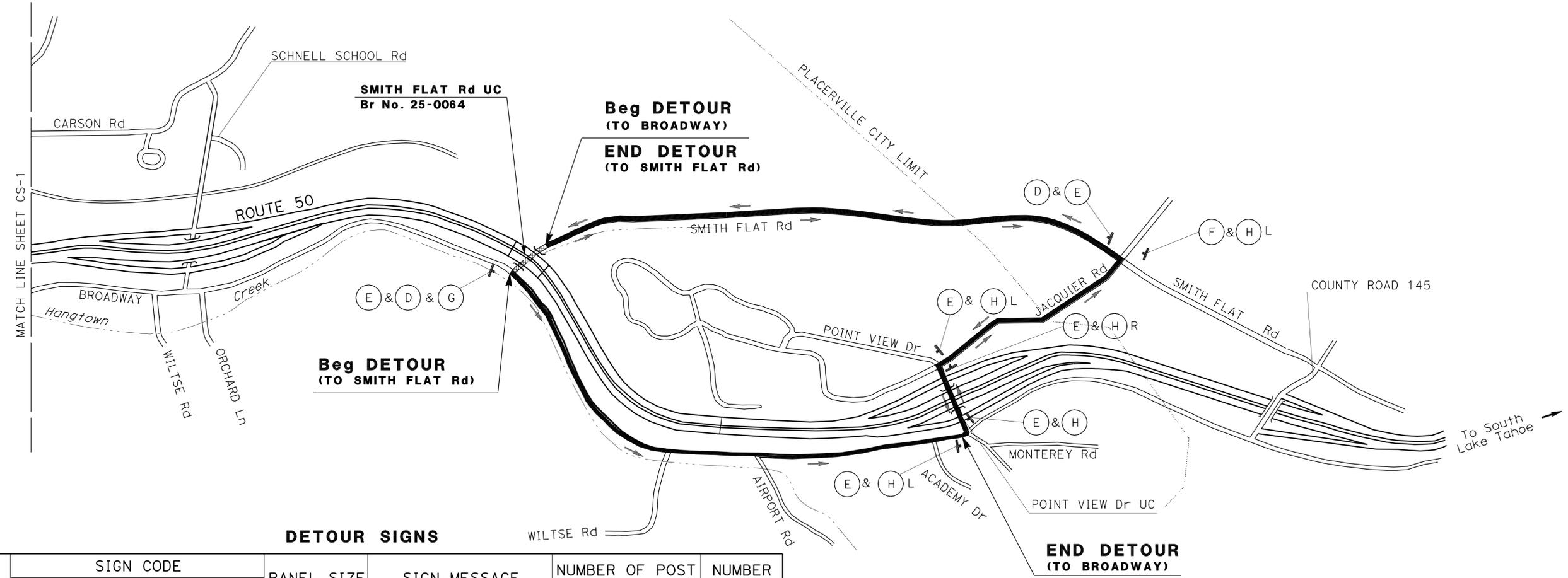
REGISTERED CIVIL ENGINEER
 HUAN M. CUNG
 No. C74406
 Exp. 9-30-13
 CIVIL

12-5-12 DATE
 3-11-13 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.

- LEGEND:**
- (No.) DETOUR SIGN LETTER
 - ┆ SIGN - SINGLE POST
 - ▨ ROAD CLOSURE
 - ▬ DETOUR ROUTE
 - DIRECTION OF DETOUR TRAVEL

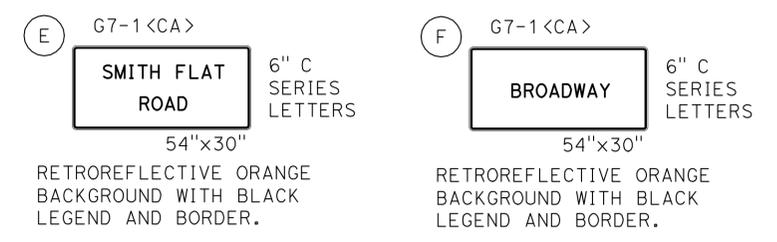
- NOTES:**
1. LOCATION OF DETOUR SIGNS ARE APPROXIMATE. EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 2. ALL SIGNS SHOULD BE COVERED WHEN NOT IN USE.
 3. RAMP CLOSURE SHALL CONFORM WITH CALTRANS STANDARD PLAN T14.
 4. FOR ADDITIONAL CONSTRUCTION AREA SIGN, SEE SHEET CS-1



DETOUR SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(D)	R11-4	C3A	60" x 30"	ROAD CLOSED TO THROUGH TRAFFIC	1 - 4" x 4"	2
(E)		G7-1	54" x 30"	SMITH FLAT ROAD	1 - 6" x 6"	6
(F)		G7-1	54" x 30"	BROADWAY	1 - 6" x 6"	1
(G)		SC3	48" x 18"	DETOUR	1 - 4" x 6"	1
(H)	M4-10	C5	48" x 18"	DETOUR	1 - 4" x 6"	5

SIGN DETAILS



DETOUR PLAN

NO SCALE **DE-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 HUAN CUNG
 HUAN CUNG
 Nesar Formoli
 00-00-00 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 10:45

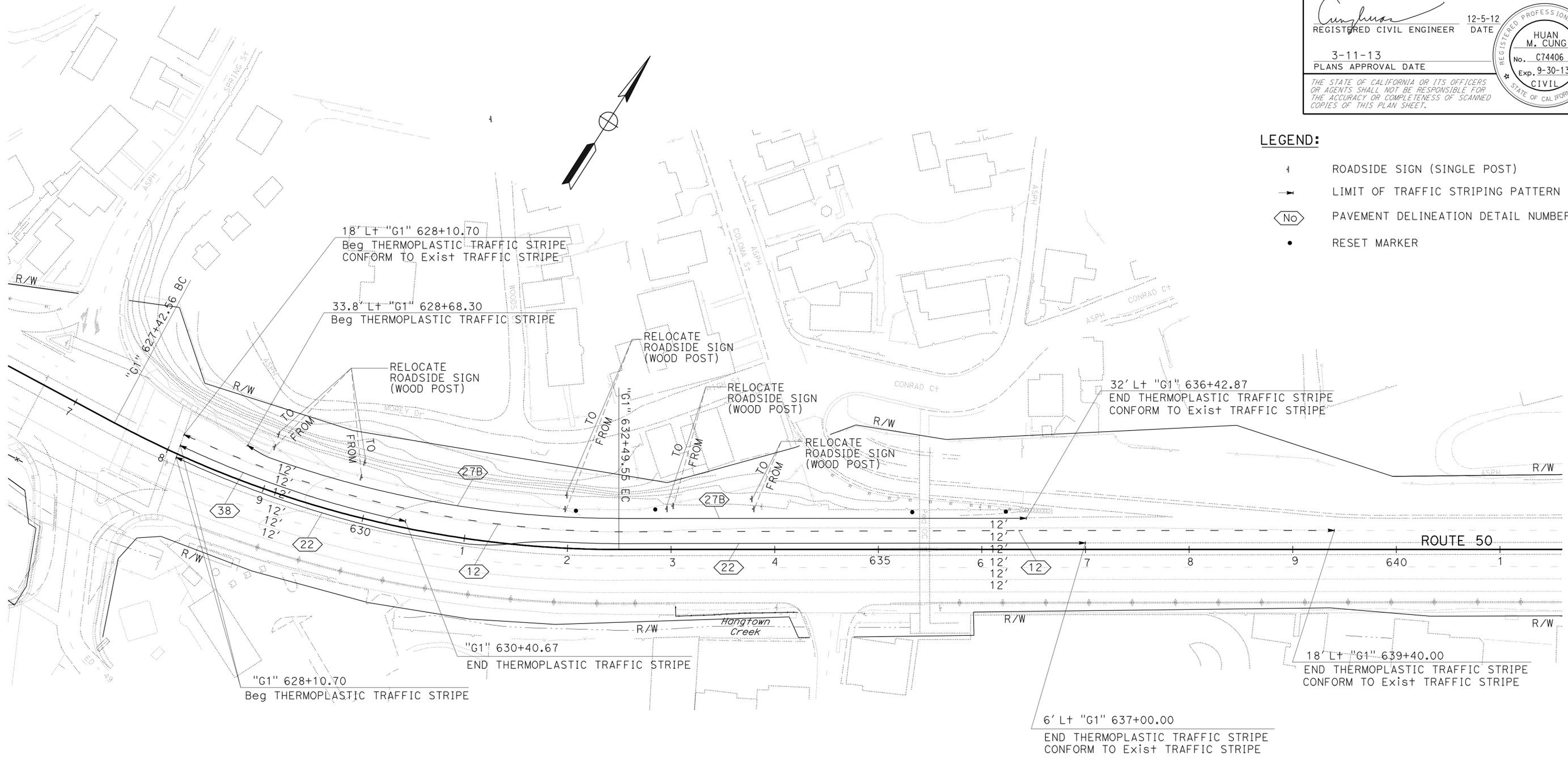
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03	ED	50	17.8,19.6	12	37

REGISTERED CIVIL ENGINEER
 HUAN M. CUNG
 No. C74406
 Exp. 9-30-13
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- LEGEND:**
- ⊕ ROADSIDE SIGN (SINGLE POST)
 - LIMIT OF TRAFFIC STRIPING PATTERN
 - ⬡(No) PAVEMENT DELINEATION DETAIL NUMBER
 - RESET MARKER



PAVEMENT DELINEATION QUANTITIES

LOCATION	DESCRIPTION	DETAIL NUMBER	FT	TOTAL
"G1" 628+07.95 TO 637+00.00	4" THERMOPLASTIC TRAFFIC STRIPE	22	893	893
"G1" 628+07.95 TO 639+40.00	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	12	1,133	1,133
"G1" 628+07.95 TO 630+40.67	8" THERMOPLASTIC TRAFFIC STRIPE	38	233	233
"G1" 628+68.30 TO 636+42.87	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	27B	775	775

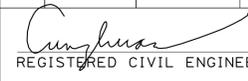
PAVEMENT DELINEATION PLAN AND QUANTITIES

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

SCALE: 1" = 50' PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DIVISION OF ENGINEERING
 HUAN CUNG
 HUAN CUNG
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 NESAR FORMOLI
 REVISOR
 DATE REVISOR

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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 No. C74406
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 CIVIL

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CONCRETE BARRIER

STATION LIMITS	REMOVE CONCRETE BARRIER	CONCRETE BARRIER (TYPE 60)	CONCRETE BARRIER (TYPE 60R MOD)	RELOCATE CRASH CUSHION
	LF	LF	LF	EA
"G1" 634+99.20 TO 635+01.20		2		
"G1" 635+01.20 TO 635+88.20			87	
"G1" 635+88.20 TO 635+90.20		2		
"G1" 634+93.38 TO 635+96.04	103			
"G1" 634+99.20				1
"G1" 635+90.20				1
TOTAL	103	4	87	2

ROADWAY AND EARTHWORK SUMMARY

STATION LIMITS	HOT MIX ASPHALT (TYPE A)	CLASS 2 AGGREGATE BASE	ROADWAY EXCAVATION
	TON	CY	CY
"G1" 628+94.62 TO 636+36.40	319.7	274	405
TOTAL	319.7	274	405

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

RECONSTRUCT CHAIN LINK FENCE

LOCATION	QUANTITY
	LF
"G1" 628+94.62 TO 633+07.45	412.8
TOTAL	412.8

REMOVE CONCRETE CURB

LOCATION	QUANTITY
	LF
"G1" 628+94.62 TO 636+36.42	741.8
TOTAL	741.8

REMOVE CONCRETE (Misc)

LOCATION	QUANTITY
	CY
39.00' Lt "G1" 634+11.18	3.6
TOTAL	3.6

RESET MARKER

LOCATION	QUANTITY
	EA
Lt "G1" 632+06.40	1
Lt "G1" 632+82.80	1
Lt "G1" 635+32.80	1
Lt "G1" 636+23.10	1
TOTAL	4

RELOCATE ROADSIDE SIGN (WOOD POST)

LOCATION	QUANTITY
	EA
Lt "G1" 629+00.00	1
Lt "G1" 629+85.70	1
Lt "G1" 631+91.75	1
Lt "G1" 632+94.70	1
Lt "G1" 633+79.45	1
TOTAL	5

METAL BEAM GUARD RAILING (WOOD POST)

LOCATION	QUANTITY
	LF
"G1" 633+75.00 TO 634+45.00	70
TOTAL	70

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

DESCRIPTION	QUANTITY	UNIT
TEMPORARY SILT FENCE	1,100	FT
TEMPORARY DRAINAGE INLET PROTECTION	10	EA

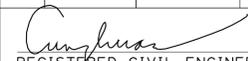
SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR NESAR FORMOLI
 CALCULATED/DESIGNED BY KEVIN CANFIELD
 CHECKED BY HUAN CUNG
 REVISED BY DATE KEVIN CANFIELD HUAN CUNG

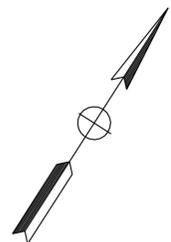
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	14	37


 REGISTERED CIVIL ENGINEER DATE 12-5-12
 3-11-13
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HUAN M. CUNG
 No. C74406
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR: NESAR FORMOLI
 CALCULATED/DESIGNED BY: HUAN CUNG
 CHECKED BY: HUAN CUNG
 REVISED BY: HUAN CUNG
 DATE REVISED:

EXISTING UTILITIES PLAN
 SCALE: 1" = 50'
EU-1

APPROVED FOR UTILITY INFORMATION ONLY

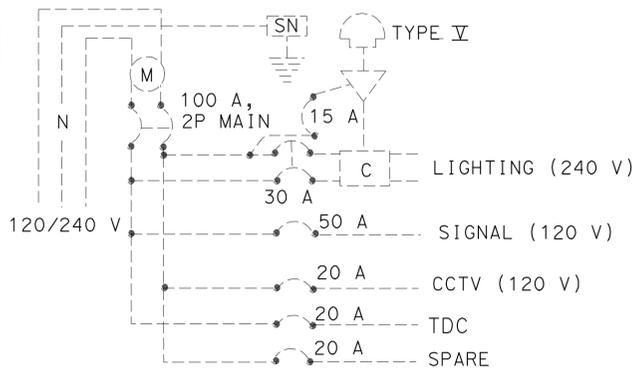
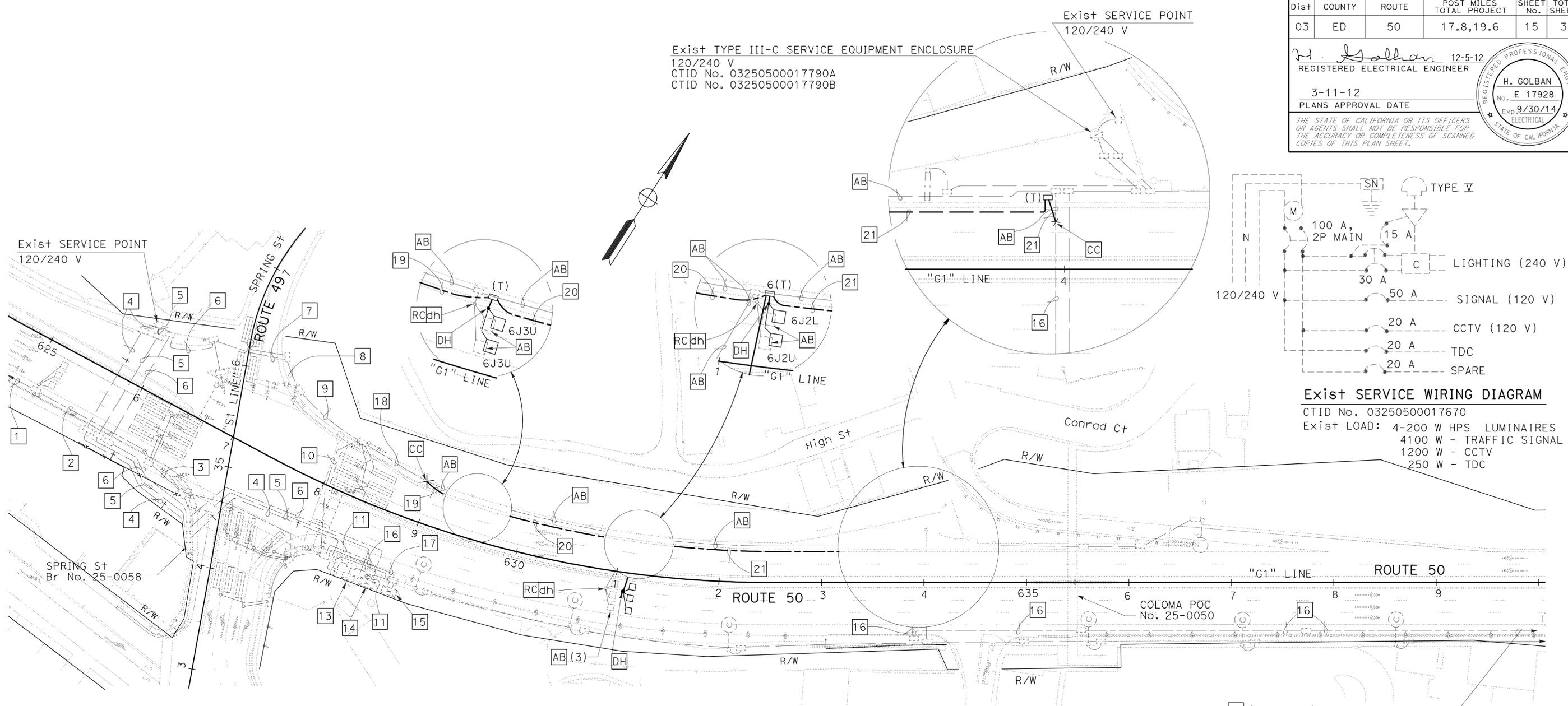
LAST REVISION DATE PLOTTED => 13-MAR-2013
 00-00-00 TIME PLOTTED => 10:46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: NELSON LEE
 CALCULATED/DESIGNED BY: HABIL GOLBAN
 CHECKED BY: YOUNG TON
 REVISIONS: REVISED BY: DATE REVISION: HABIL GOLBAN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	15	37

REGISTERED ELECTRICAL ENGINEER
 H. GOLBAN No. E 17928
 12-5-12
 3-11-12 PLANS APPROVAL DATE
 EXP. 9/30/14
 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.



Exist SERVICE WIRING DIAGRAM
 CTID No. 03250500017670
 Exist LOAD: 4-200 W HPS LUMINAIRES
 4100 W - TRAFFIC SIGNAL
 1200 W - CCTV
 250 W - TDC

LEGEND: (THIS SHEET ONLY)

- 1 Exist 2"C, 3 dlc, 1 sic.
- 2 Exist 2"C, 6 dlc, 1 sic.
- 3 Exist 2"C, 7 dlc, 1 sic.
- 4 Exist 2"C, 2 TELEPHONE CABLES.
- 5 Exist 2"C, 3#2.
- 6 Exist 2"C, 1 sic.
- 7 Exist 2"C, 1-12CSC, 1-3CSC, 2#10, 2 evc.
- 8 Exist 3"C, 1-12CSC, 1-3CSC, 2#10, 2 evc, 2 dlc.
- 9 Exist 3"C, 2-12CSC, 2-3CSC, 2#10, 4 evc, 4 dlc.
- 10 Exist 3"C, 3-12CSC, 3-3CSC, 2#10, 4 evc, 11 dlc, 1 sic. RC 6 dlc, 1 sic. ADD 6 DLC, 1 SIC.
- 11 Exist 2-4"C, 7-12CSC, 6-3CSC, 2#10, 8 evc, 22 dlc, 2 sic, 1 TELEPHONE CABLE. RC 6 dlc, 1 sic. ADD 6 DLC, 1 SIC.
- 12 NOT USED.
- 13 Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE, 120/240 V, CTID No. 03250500017670.

- 14 Exist MODEL 332 CABINET FOR TRAFFIC SIGNAL.
 - 15 Exist MODEL 334 CABINET FOR CCTV.
 - 16 Exist 2"C, 1 sic. RC 1 sic. ADD 1 SIC.
 - 17 Exist 2"C, 1 MULTICONDUCTOR CABLE.
 - 18 Exist 2"C, 6 dlc, 1 sic. RC 6 dlc, 1 sic. ADD 6 DLC, 1 SIC.
 - 19 2"C, 6 DLC, 1 SIC.
 - 20 2"C, 5 DLC, 1 SIC.
 - 21 2"C, 1 SIC.
- ⊙ = Exist DECORATIVE CITY LIGHT STANDARD

ABBREVIATION:
 CTID CALTRANS IDENTIFICATION

WIRING DIAGRAM LEGEND:

- C CONTACTOR
- SN SOLID NEUTRAL
- △ AUTO TEST SWITCH
- PHOTOELECTRIC UNIT
- M METER SOCKET

MODIFY SIGNAL
 SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL DESIGN

REVISOR BY: YOUNG TON
 DATE: 7/2/2010

DESIGNED BY: HABIL GOLBAN

CHECKED BY: NELSON LEE

FUNCTIONAL SUPERVISOR: NELSON LEE

CALCULATED/DESIGNED BY: HABIL GOLBAN

REVISOR BY: YOUNG TON
 DATE: 7/2/2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	16	37

H. Golban 12-5-12
 REGISTERED ELECTRICAL ENGINEER
 No. E 17928
 3-11-13
 PLANS APPROVAL DATE
 EXP. 9/30/14
 ELECTRICAL
 STATE OF CALIFORNIA

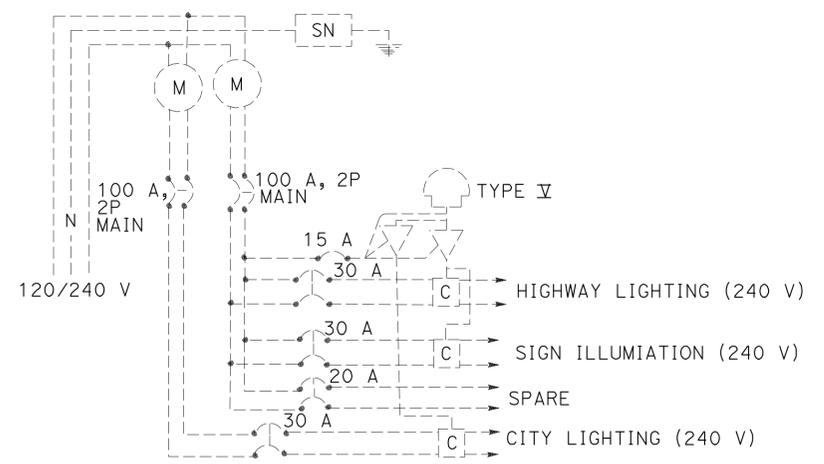
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (THIS SHEET ONLY)

- 1 2"C, 2#6.
- 2 Exist 2"C, 2#6. RC 2#6. ADD 2#6.
- 3 2"C, 2#8.
- 4 Exist 2"C, 4#8.
- 5 Exist 2 1/2"C, 3#3/0.
- 6 Exist 2"C, 2#6.
- (C) Exist DECORATIVE CITY LIGHT STANDARD

WIRING DIAGRAM LEGEND:

- [C] CONTACTOR
- [SN] SOLID NEUTRAL
- ▽ AUTO TEST SWITCH
- ☐ PHOTOELECTRIC UNIT
- (M) METER SOCKET

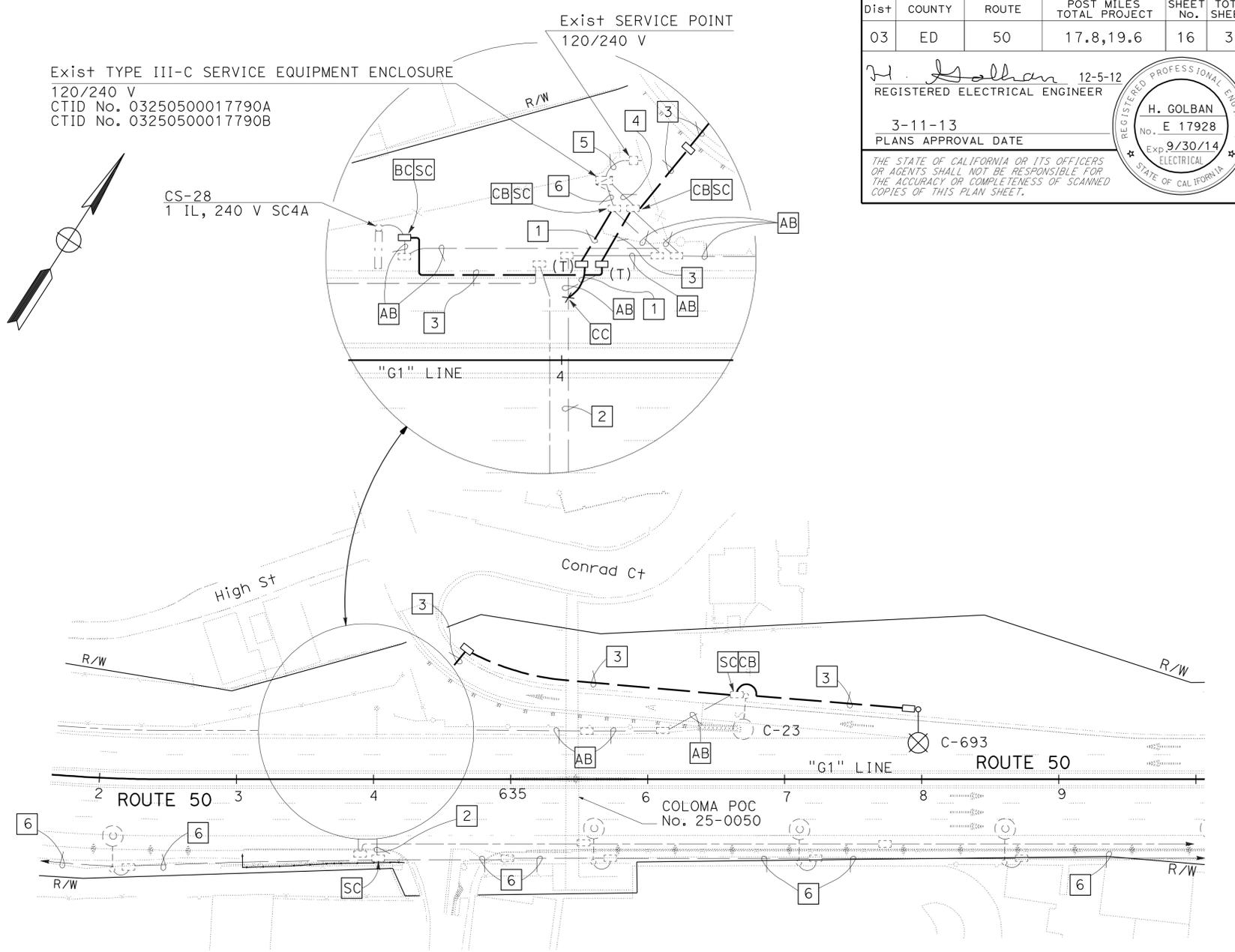


Exist SERVICE WIRING DIAGRAM

CTID No. 03250500017790A
 Exist LOAD:
 1-200 W HPS LUMINAIRES
 1-85 W ISL SIGN LIGHTING

LOAD AFTER MODIFICATION:
 2-200 W HPS LUMINAIRES
 1-85 W ISL SIGN LIGHTING

CTID No. 03250500017790B
 Exist LOAD:
 10-70 W HPS LUMINAIRES



Exist TYPE III-C SERVICE EQUIPMENT ENCLOSURE
 120/240 V
 CTID No. 03250500017790A
 CTID No. 03250500017790B

CS-28
 1 IL, 240 V SC4A

MODIFY LIGHTING AND SIGN ILLUMINATION

SCALE: 1" = 50'

E-2

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	17	37

H. Golban 12-5-12
 REGISTERED ELECTRICAL ENGINEER DATE

3-11-13
 PLANS APPROVAL DATE

H. GOLBAN
 No. E 17928
 Exp. 9/30/14
 ELECTRICAL

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NOTE:
 THE QUANTITIES ON THIS SHEET ARE NOT A SEPARATE PAY ITEM AND ARE FOR INFORMATION ONLY.

MODIFY SIGNAL

SHEET No.	SIC	DLC	No. 5 (T) PULL BOX	No. 6 (T) PULL BOX	T&B IN STREET BY MACHINE 30" DEEP	2"C, TYPE 3	DETECTOR HANDHOLE	REMOVE EXISTING DETECTOR HANDHOLE	TERMINATE 2"C, TYPE 3	CONNECT NEW AND EXISTING CONDUIT	LOOPS (6' x 6')
	LF	LF	EA	EA	LF	LF	EA	EA	EA	EA	EA
E-1	4100	7800	2	1	625	625	3	3	9	2	8

MODIFY LIGHTING AND SIGN ILLUMINATION

SHEET No.	TYPE 30	No. 5 PULL BOX	No. 5 (T) PULL BOX	#6 CONDUCTOR	#8 CONDUCTOR	T&B IN STREET BY MACHINE 30" DEEP	2"C, TYPE 3	INSTALL CONDUIT IN EXISTING PULL BOX	INSTALL PULL BOX IN EXISTING CONDUIT RUN	2" TERMINATE PVC CONDUIT SCH40	CONNECT NEW AND EXISTING CONDUIT	SPLICE NEW TO EXISTING CONDUCTORS
	EA	LF	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA
E-2	1	4	2	400	1400	645	645	5	1	15	1	10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR
 NELSON LEE
 CALCULATED/DESIGNED BY
 CHECKED BY
 YOUNG TON
 HABIB GOLBAN
 REVISED BY
 DATE REVISED

APPROVED FOR ELECTRICAL WORK ONLY

ELECTRICAL QUANTITIES E-3

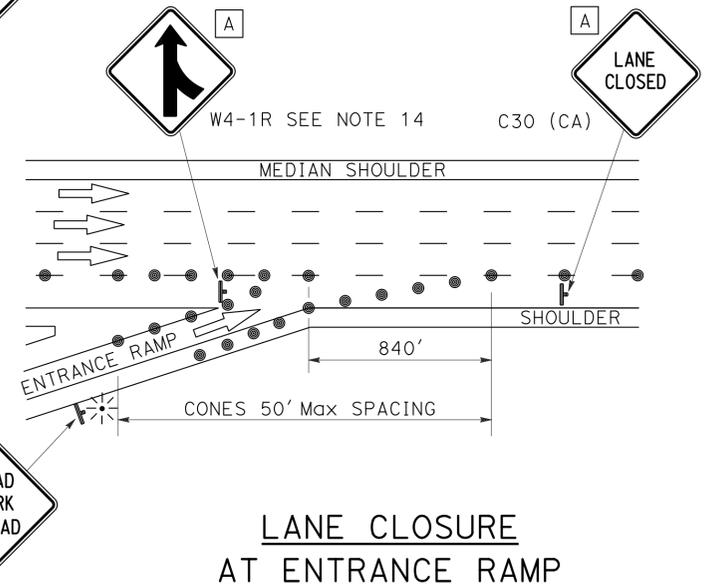
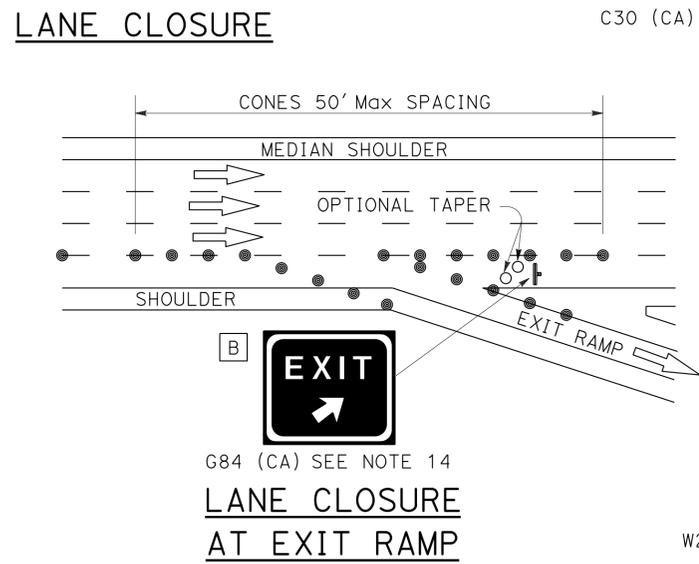
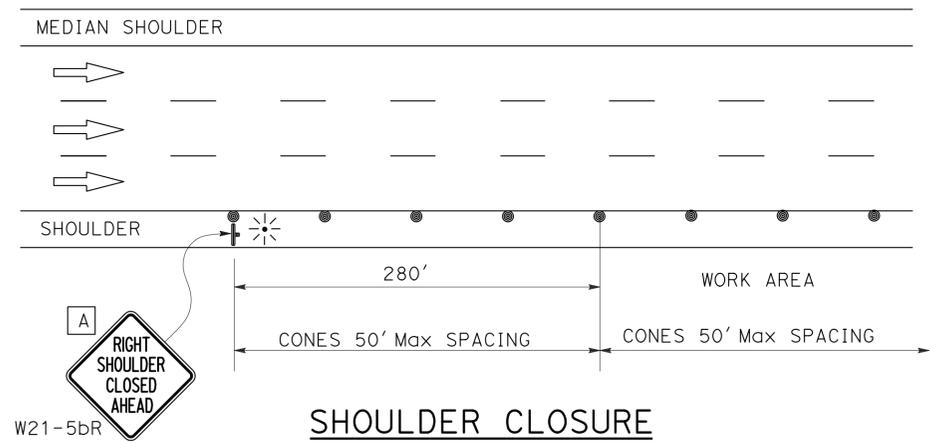
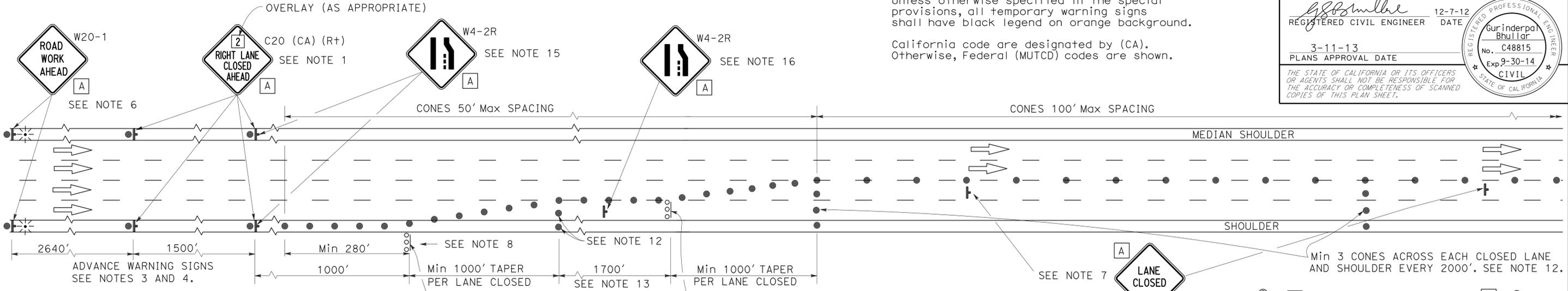


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	18	37

<i>Gurinderpal Bhullar</i>	12-7-12
REGISTERED CIVIL ENGINEER	DATE
3-11-13	
PLANS APPROVAL DATE	

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NOTES:
 Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
 California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



- NOTES:**
- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
 - Place a C30 (CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
 - Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 - Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
 - Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
 - When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
 - The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

●	TRAFFIC CONE
○	TRAFFIC CONE (OPTIONAL TAPER)
↑	TEMPORARY SIGN
⬢	FLASHING ARROW SIGN (FAS)
⬢	FAS SUPPORT OR TRAILER
⚡	PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

TCS-1

REVISOR: _____ DATE: _____
 CALCULATED/DESIGNED BY: _____ CHECKED BY: _____
 FUNCTIONAL SUPERVISOR: _____
 STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Et Caltrans

LAST REVISION: DATE PLOTTED => 13-MAR-2013
 TIME PLOTTED => 12:38

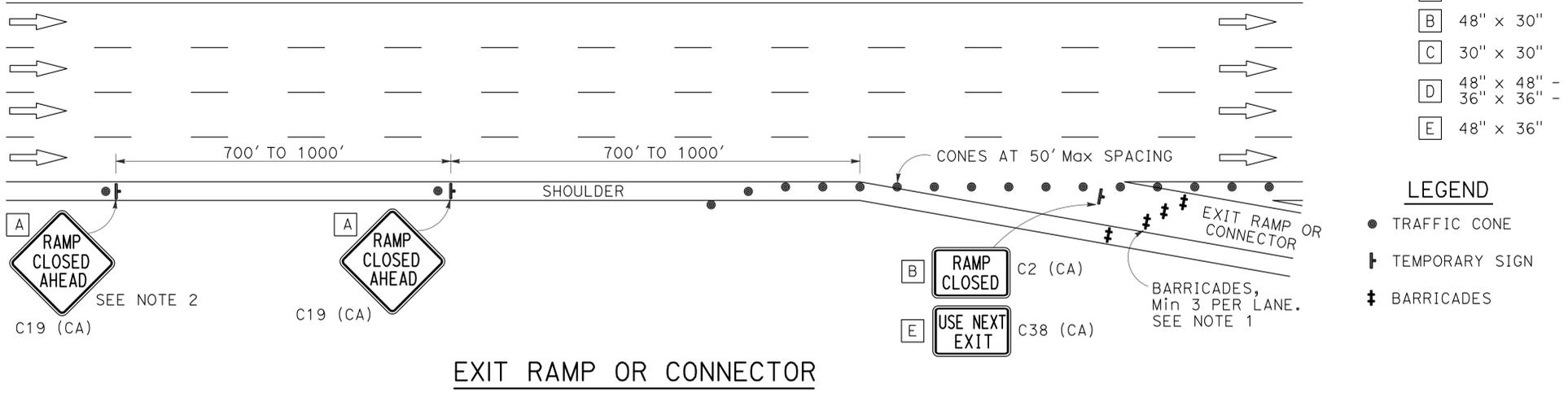
TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	19	37

REGISTERED CIVIL ENGINEER
 12-7-12 DATE
 3-11-13 PLANS APPROVAL DATE
 Gurinderpal Bhullar
 No. C48815
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

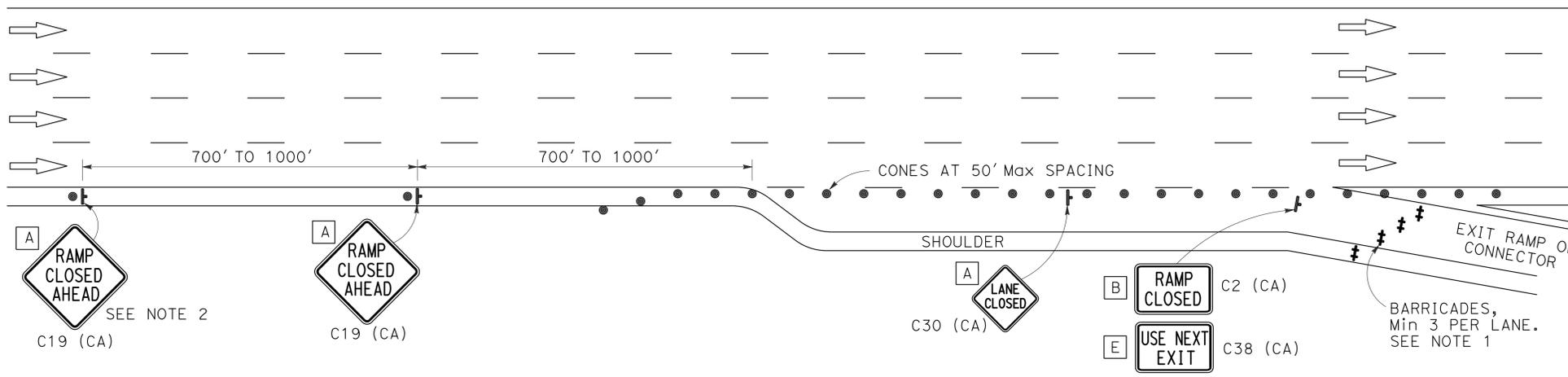


LEGEND

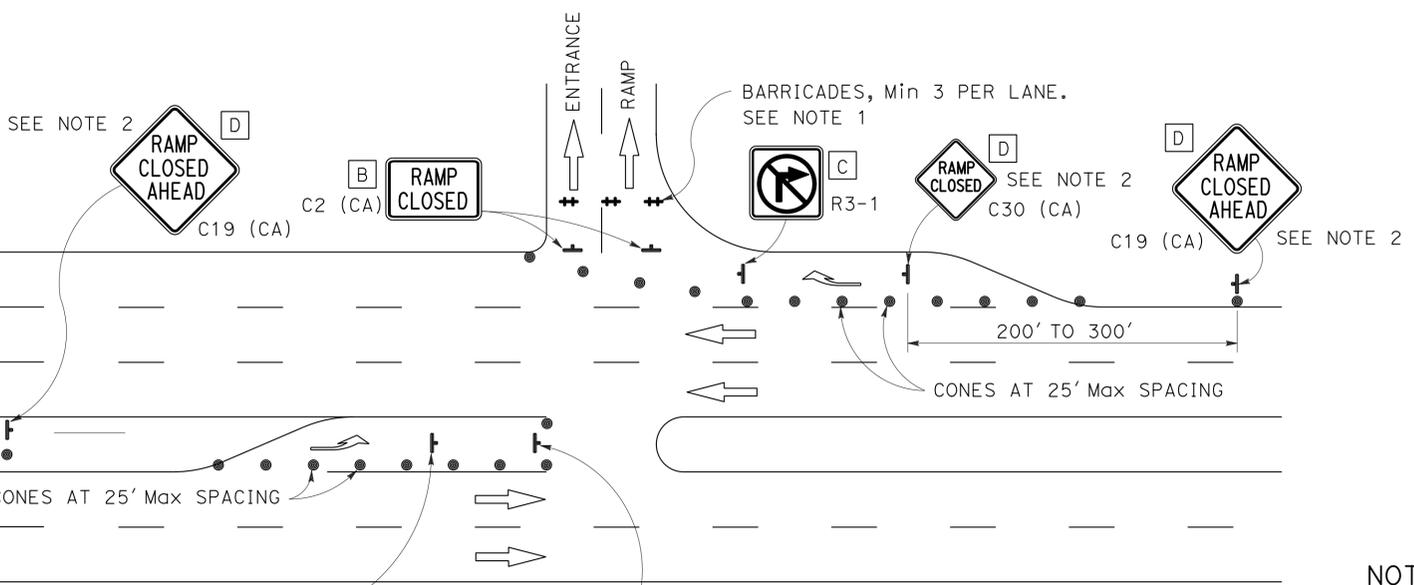
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

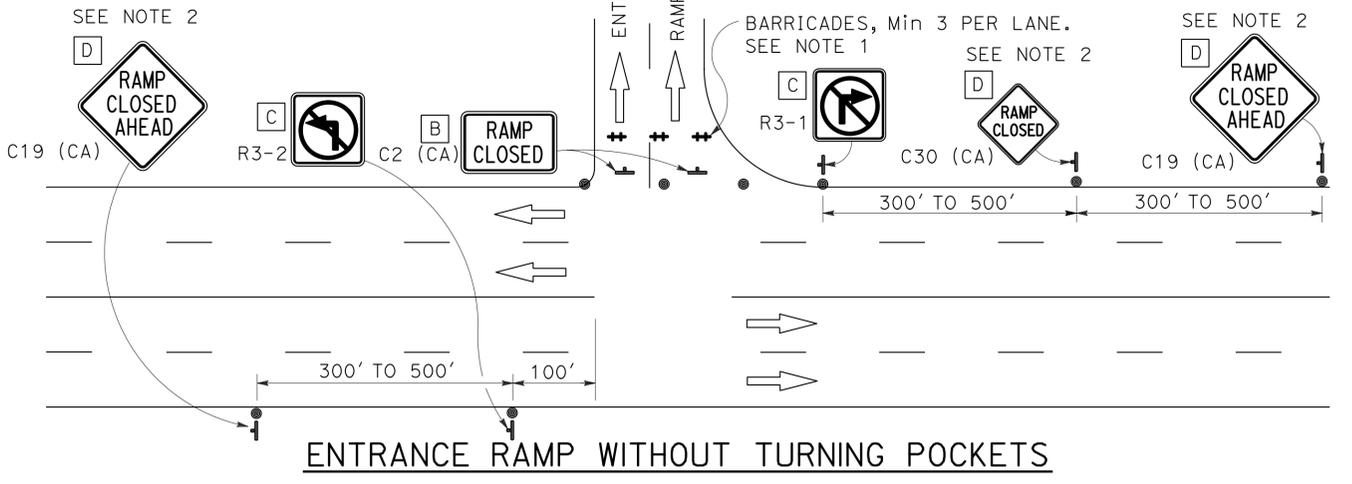
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURE**

NO SCALE

TCS-2

REVISOR: [] DATE: []
 CALCULATED/DESIGNED BY: [] CHECKED BY: []
 FUNCTIONAL SUPERVISOR: []
 DEPARTMENT OF TRANSPORTATION
 STATE OF CALIFORNIA - Caltrans

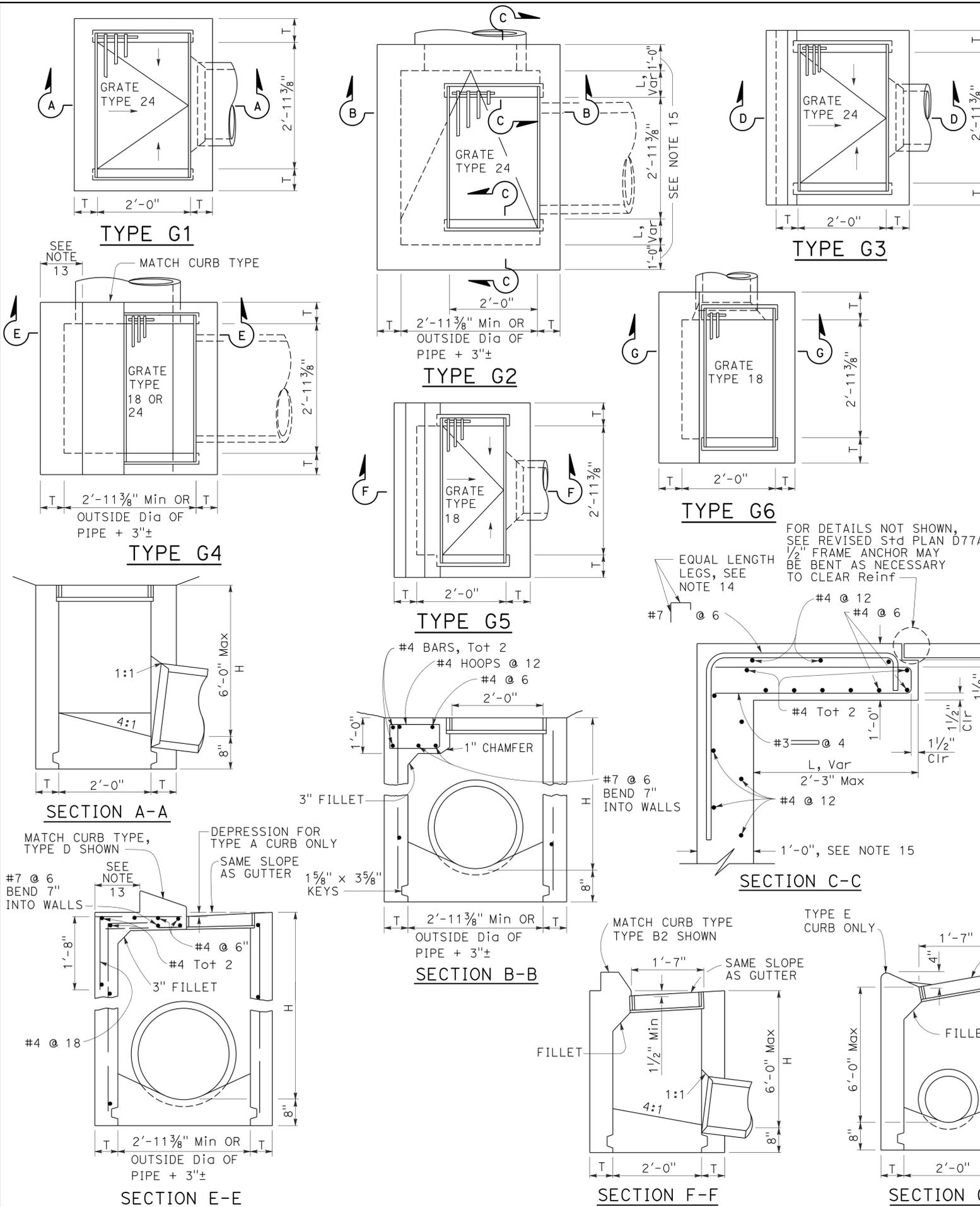
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	20	37

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
- For "T" wall thickness, see Table A below.
- Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 bars @ 1'-6" ± centers placed 1 1/2" clear to inside of box unless otherwise shown.
- Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom and alternative half round bottom.
- Steps-None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
- Details shown apply to both metal and concrete pipe.
- Pipe(s) can be placed in any wall.
- Curb section shall match adjacent curb.
- Basin floors shall have wood trowel finish and a minimum slope of 12:3 from all directions toward outlet pipe.
- Set inlet so that grate bars are parallel to direction of principal surface flow.
- See Revised Standard Plans D77A and D77B for grate and frame details and weights of miscellaneous iron and steel.
- See Standard Plan D78A for gutter depression details.
- This dimension will vary with different grates, curbs types, box width and wall thickness.
- Bar may be rotated as necessary to clear opening. Where "L" is 6" or less, bar may be omitted.
- Where "L" is 6" or less, wall thickness shall be as shown in Table A.
- Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet, and concrete poured in one continuous operation. Precast inlets shall have mortared connections conforming to details for Type GCP Inlet shown on Standard Plan D75B. See Standard Specifications for mortar composition.

TABLE A

TYPE	CONCRETE QUANTITIES			
	H=3'-0" TO 8'-0" (T=6")	H=8'-1" TO 20'-0" (T=8")	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
G-1	0.95	0.220	See Note A	SEE NOTE A
G-2*	1.31	0.255	3.50	0.357
G-3	1.03	0.220	See Note A	SEE NOTE A
G-4* (TYPE 24)	1.27	0.255	3.48	0.357
G-4* (TYPE 18)	1.30	0.255	3.50	0.357
G-5	1.02	0.220	SEE NOTE A	SEE NOTE A
G-6	1.04	0.220	SEE NOTE A	SEE NOTE A

TABLE BASED ON 8" FLOOR SLAB. NO DEDUCTIONS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPES. * QUANTITIES FOR TYPE G-2 AND G-4 INLETS BASED ON THE MINIMUM INTERIOR DIMENSIONS.

NOTE A:

Maximum allowable height 6'-0".

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLETS
NO SCALE

RSP D73 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN D73 DATED MAY 20, 2011 - PAGE 156 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D73

2010 REVISED STANDARD PLAN RSP D73

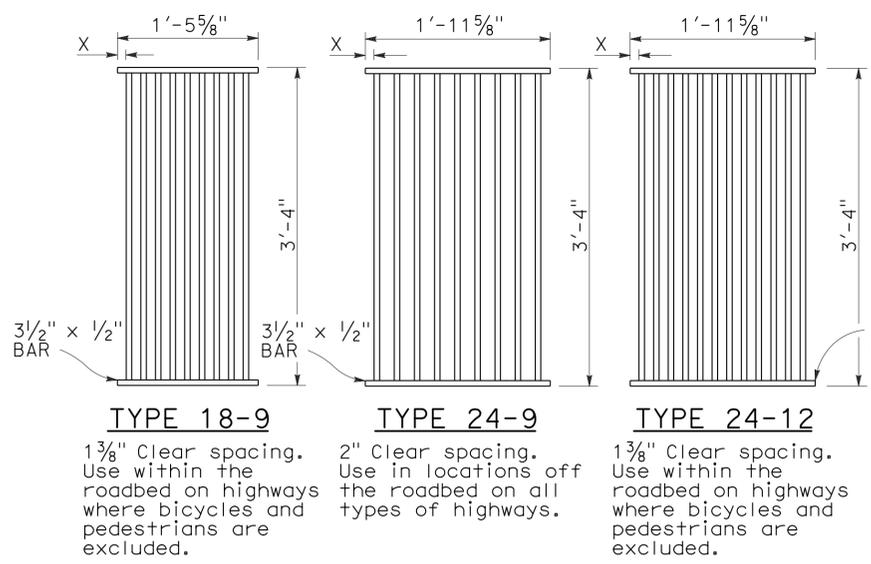
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	21	37

Raymond Don Tsztou
REGISTERED CIVIL ENGINEER

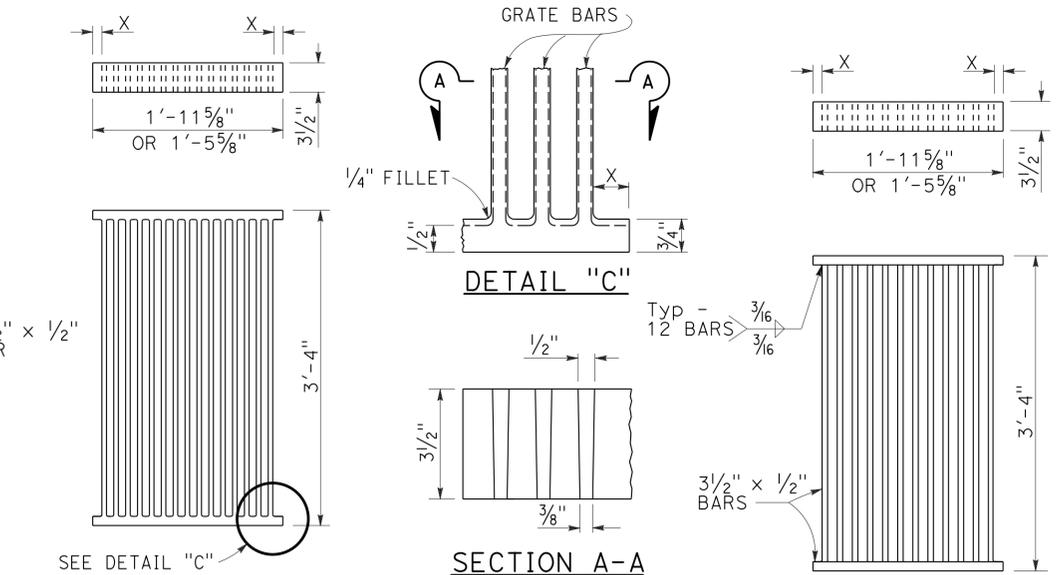
July 20, 2012
PLANS APPROVAL DATE

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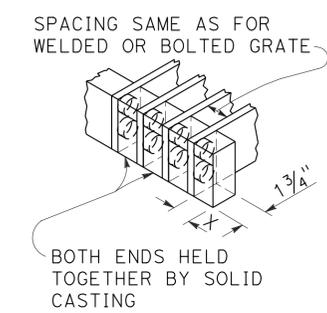
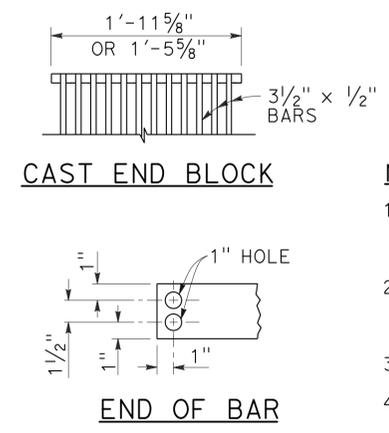
REGISTERED PROFESSIONAL ENGINEER
Raymond Don Tsztou
No. C37332
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA



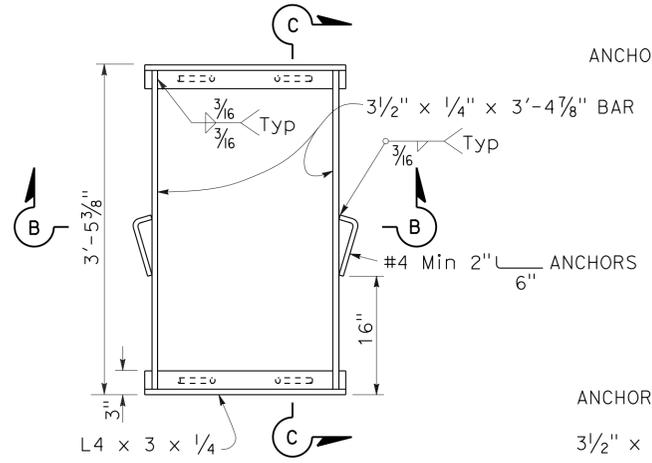
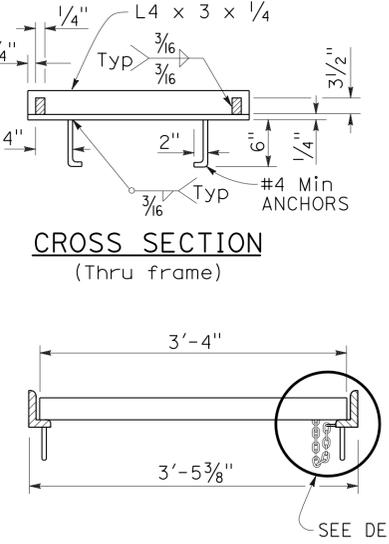
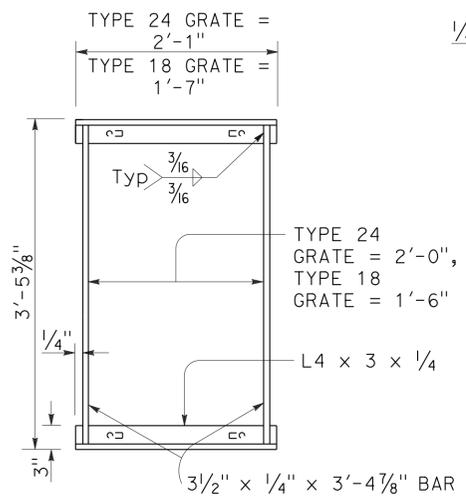
RECTANGULAR GRATE DETAILS
(See table below)



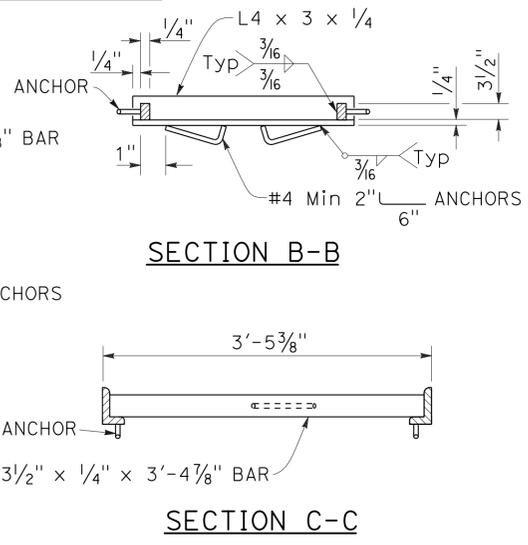
ALTERNATIVE CAST DUCTILE IRON GRATE OR CAST CARBON STEEL GRATE
ALTERNATIVE WELDED GRATE



ALTERNATIVE CAST DUCTILE IRON OR CAST CARBON STEEL END BLOCK GRATE



ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME
(For details not shown, See Rectangular Frame Details)



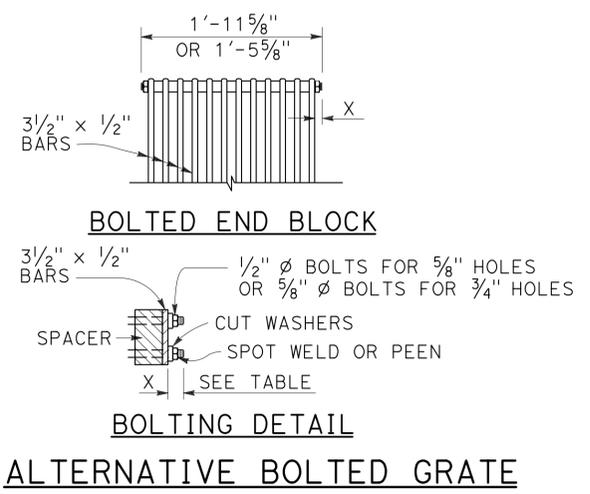
RECTANGULAR FRAME DETAILS
(For all rectangular grates)

GRATE BAR SPACING TABLE

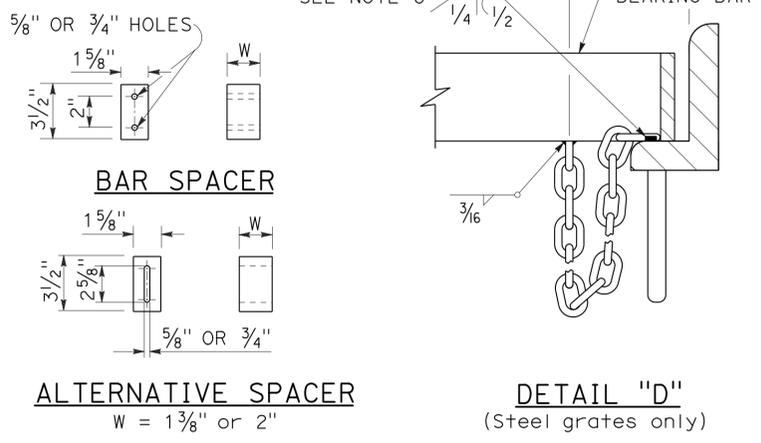
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22
GRATE CHAIN			3



ALTERNATIVE BOLTED GRATE



ALTERNATIVE SPACER
W = 1 3/8" or 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
GRATE DETAILS

NO SCALE

RSP D77A DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN D77A
DATED MAY 20, 2011 - PAGE 164 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D77A

BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS
(See Note 7)

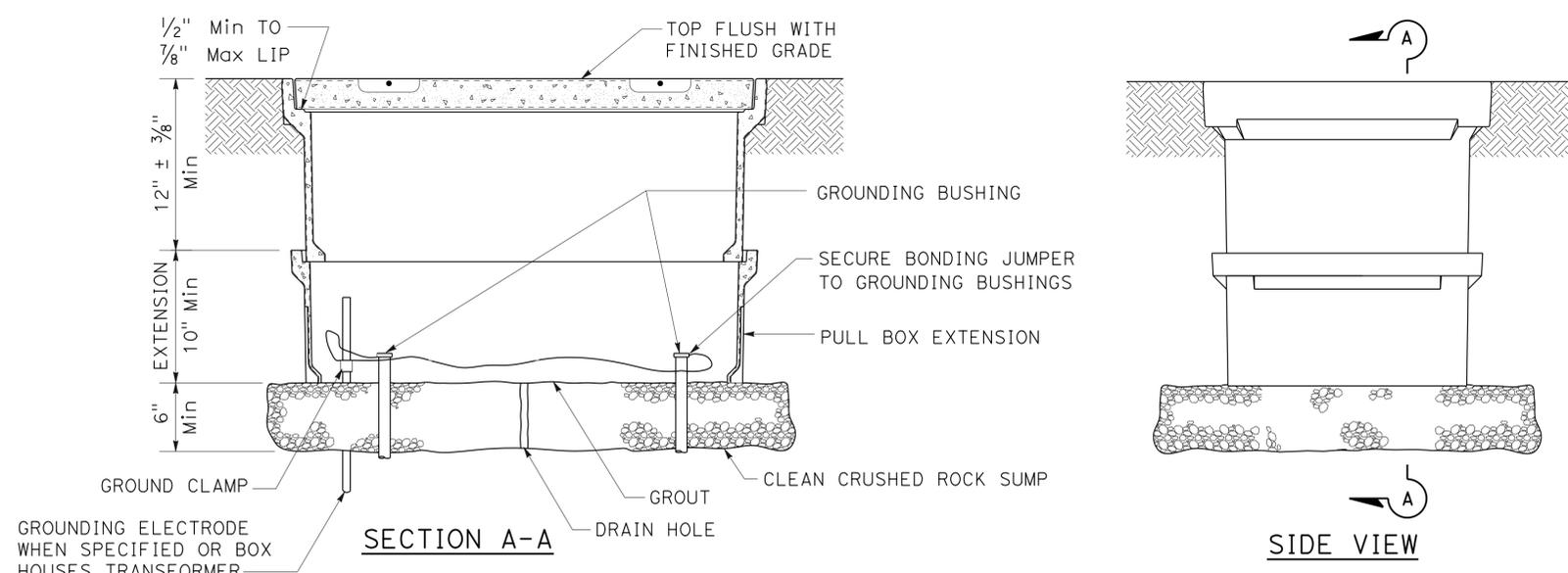
2010 REVISED STANDARD PLAN RSP D77A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	50	17.8,19.6	22	37

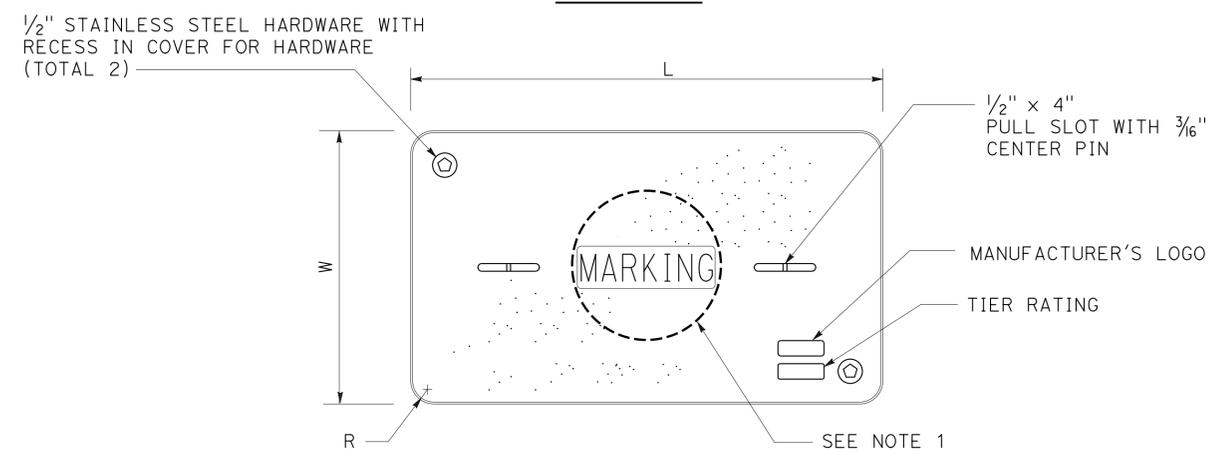
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-12
 ELECTRICAL
 STATE OF CALIFORNIA

January 20, 2012
 PLANS APPROVAL DATE

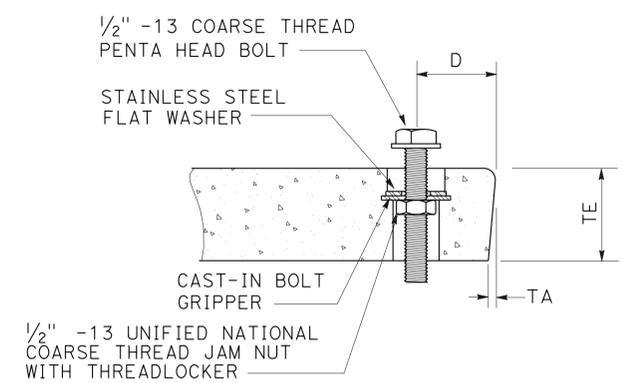
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



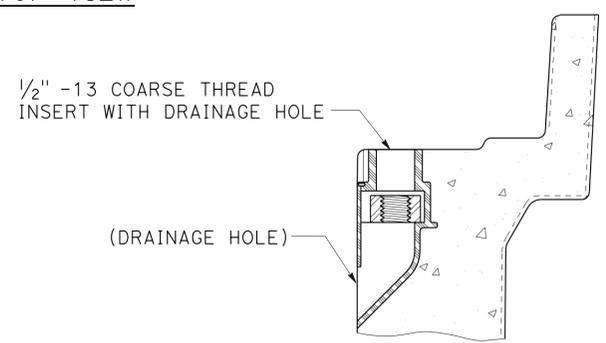
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

NOTES ON PULL BOXES:

1. Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - A) No. 3/2 pull box.
 - 1) "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - 2) "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - B) No. 5, 6, 9 or 9A pull box.
 - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - 2) "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - 3) "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - 5) "RAMP METER" - Ramp meter circuits.
 - 6) "COUNT STATION" - Count or speed monitor circuits.
 - 7) "COMMUNICATIONS" - Communication circuits.
 - 8) "TOS COMMUNICATIONS" - TOS communication line.
 - 9) "TOS POWER" - TOS power.
 - 10) "TDC POWER" - Telephone demarcation cabinet power.
 - 11) "CCTV" - Closed circuit television circuits.
 - 12) "TMS" - Traffic monitoring station circuits.
 - 13) "CMS" - Changeable message sign circuits.
 - 14) "HAR" - Highway advisory radio circuits.
2. The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions (L and W) plus 1/8" or greater.
3. Covers and boxes must be interchangeable with California Standard. When interchanged with a standard, the top surfaces must be flush within 1/8". Top outside radius of covers and pull boxes must have a 1/8" radius.
4. Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.

TO ACCOMPANY PLANS DATED 3-11-13

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(PULL BOX)
 NO SCALE

RSP ES-8A DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

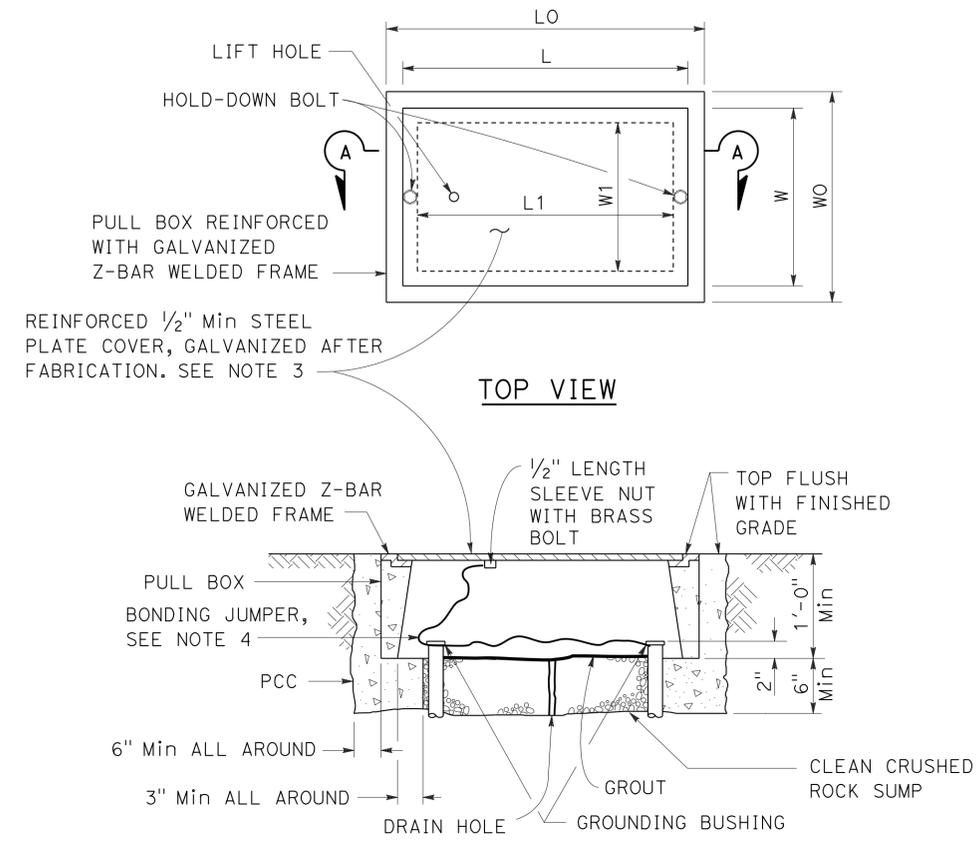
2010 REVISED STANDARD PLAN RSP ES-8A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	ED	50	17.8,19.6	23	37

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 January 20, 2012
 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.

TO ACCOMPANY PLANS DATED 3-11-13



SECTION A-A
No. 3 1/2(T), No. 5(T) AND
No. 6(T) TRAFFIC PULL BOX

NOTES ON PULL BOXES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within 1/8".

PULL BOX	BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 7/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	NONE
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(TRAFFIC RATED PULL BOX)
 NO SCALE

RSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-8B

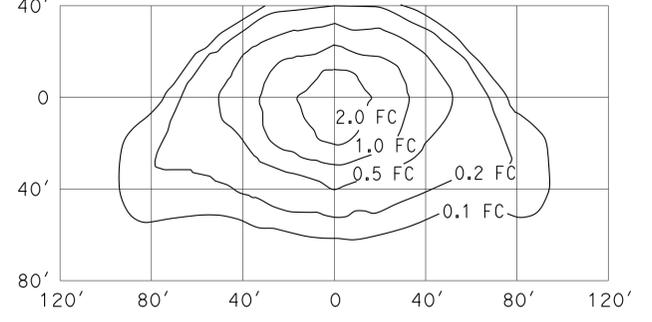
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	24	37

Jeffrey B. McRae
 REGISTERED ELECTRICAL ENGINEER
 July 20, 2012
 PLANS APPROVAL DATE
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TO ACCOMPANY PLANS DATED 3-11-13

2010 REVISED STANDARD PLAN RSP ES-10A

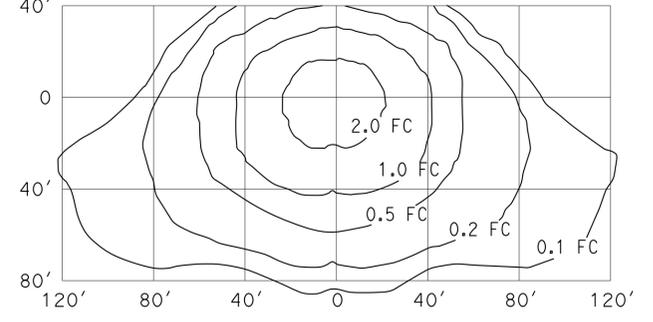
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 34' Mounting Height
 Lamp operated at 22,000 lm
 200-W high pressure sodium lamp
 ANSI Designation S66

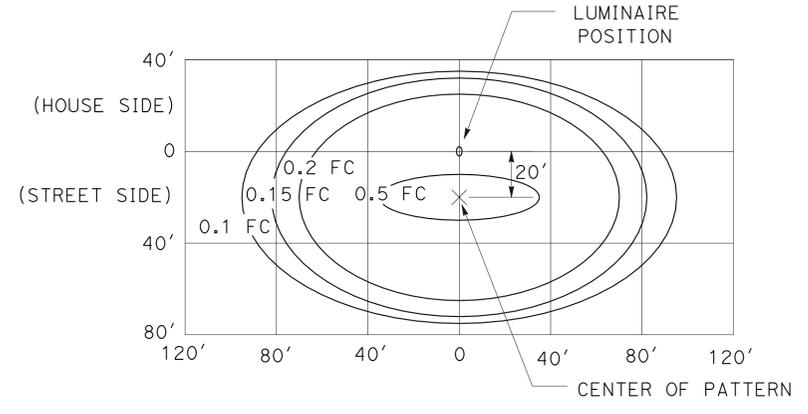
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 40' Mounting Height
 Lamp operated at 37,000 lm
 310-W high pressure sodium lamp
 ANSI Designation S67

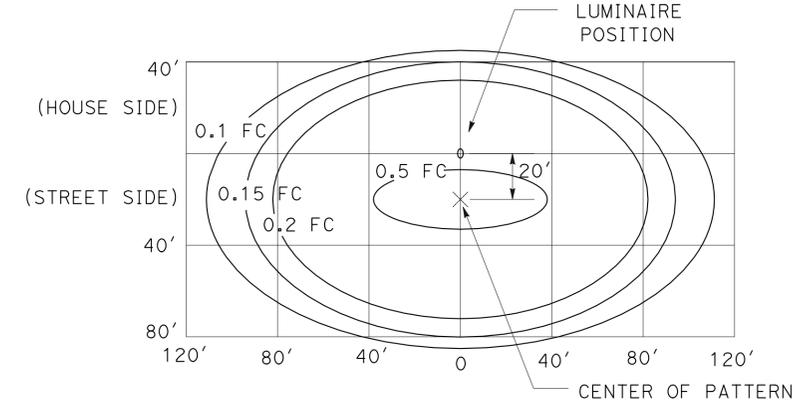
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 1

200-W HPS Equivalent at 34' Mounting Height

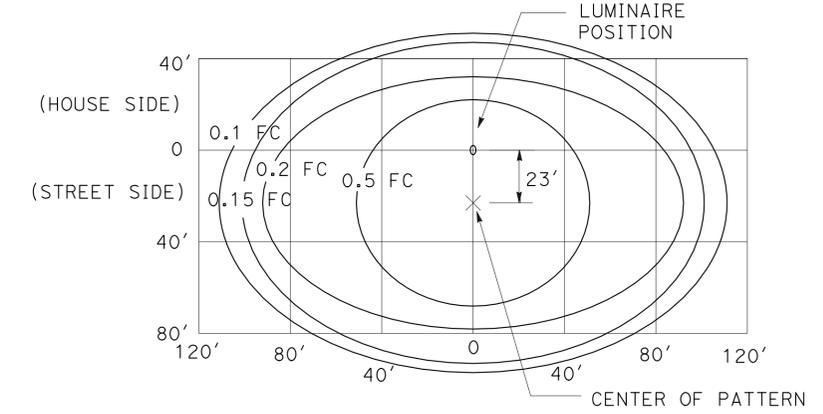
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 2

310-W HPS Equivalent at 40' Mounting Height

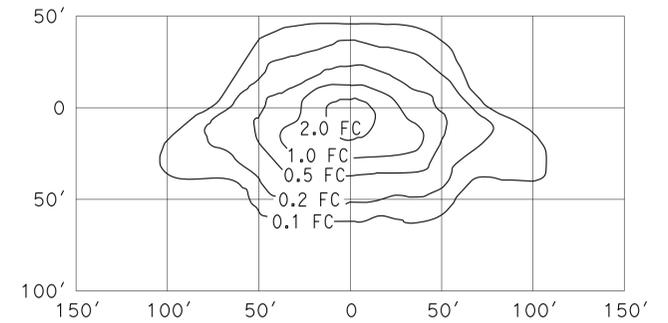
ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4

400-W HPS Equivalent at 40' Mounting Height

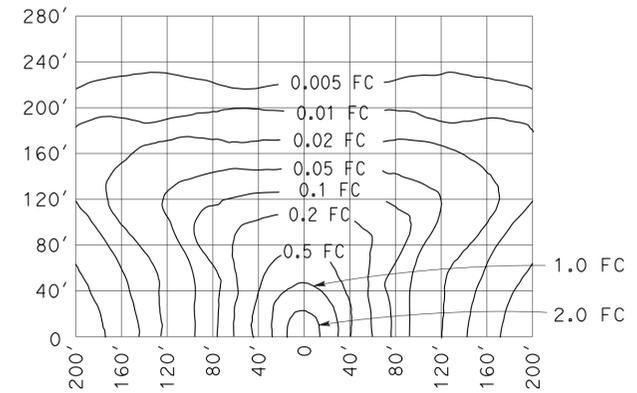
ISOFOOTCANDLE CURVE - MINIMUM



TYPE III MEDIUM CUTOFF

Cutoff Luminaire
 30' Mounting Height
 Lamp operated at 16,000 lm
 150-W high pressure sodium lamp
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



LOW PRESSURE SODIUM LUMINAIRE

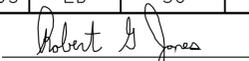
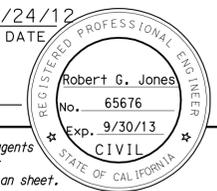
40' Mounting Height
 Lamp operated at 33,000 lm
 180-W low pressure sodium lamp

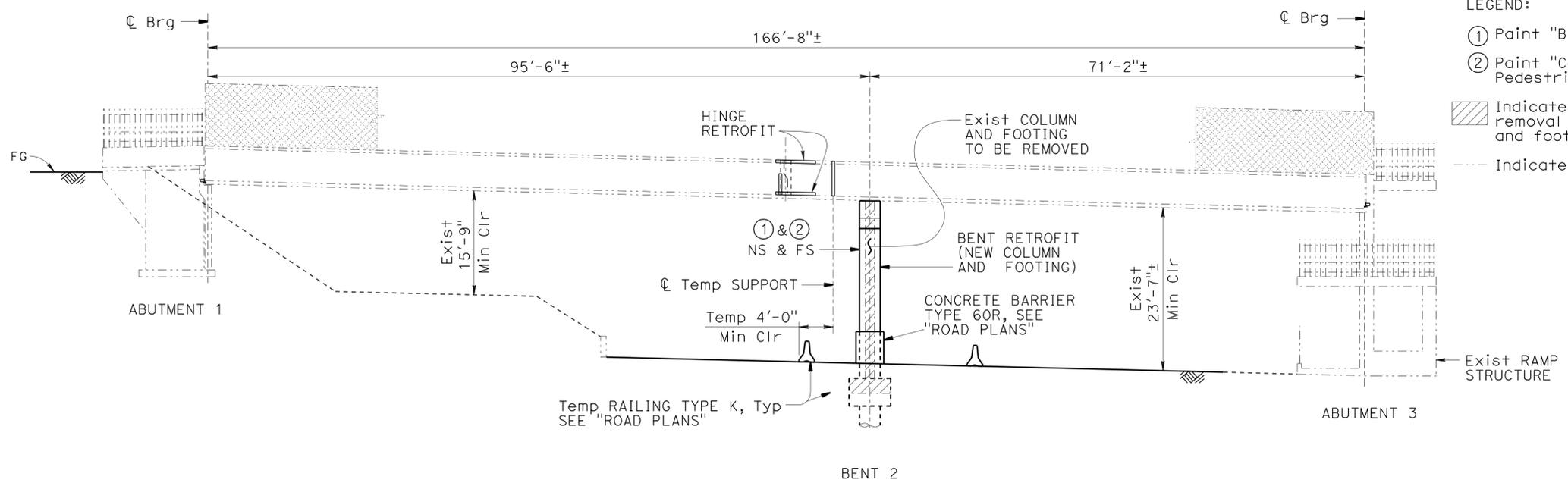
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
 (ISOFOOTCANDLE DIAGRAMS)**

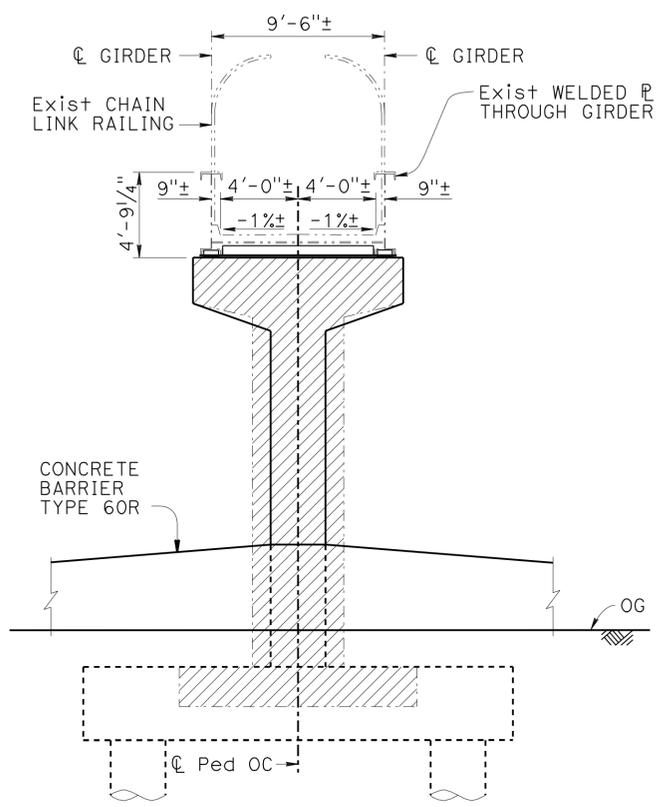
NO SCALE

RSP ES-10A DATED JULY 20, 2012 SUPPLEMENTS THE
 STANDARD PLANS BOOK DATED 2010.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	25	37
 REGISTERED CIVIL ENGINEER			DATE	10/24/12	
3-11-13 PLANS APPROVAL DATE					
<small>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.</small>					



- LEGEND:
- ① Paint "Bridge No. 25-0050"
 - ② Paint "Coloma Street Pedestrian Overcrossing"
 -  Indicates limits of bridge removal (existing column and footing)
 -  Indicates existing structure



TYPICAL SECTION
1" = 5'

INDEX TO PLANS

1. GENERAL PLAN
2. MISCELLANEOUS DETAILS
3. BENT DETAILS
4. GIRDER RETROFIT DETAILS
5. HINGE RETROFIT DETAILS
6. LOG OF TEST BORINGS 1 OF 2
7. LOG OF TEST BORINGS 2 OF 2

STANDARD PLANS DATED 2010

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE

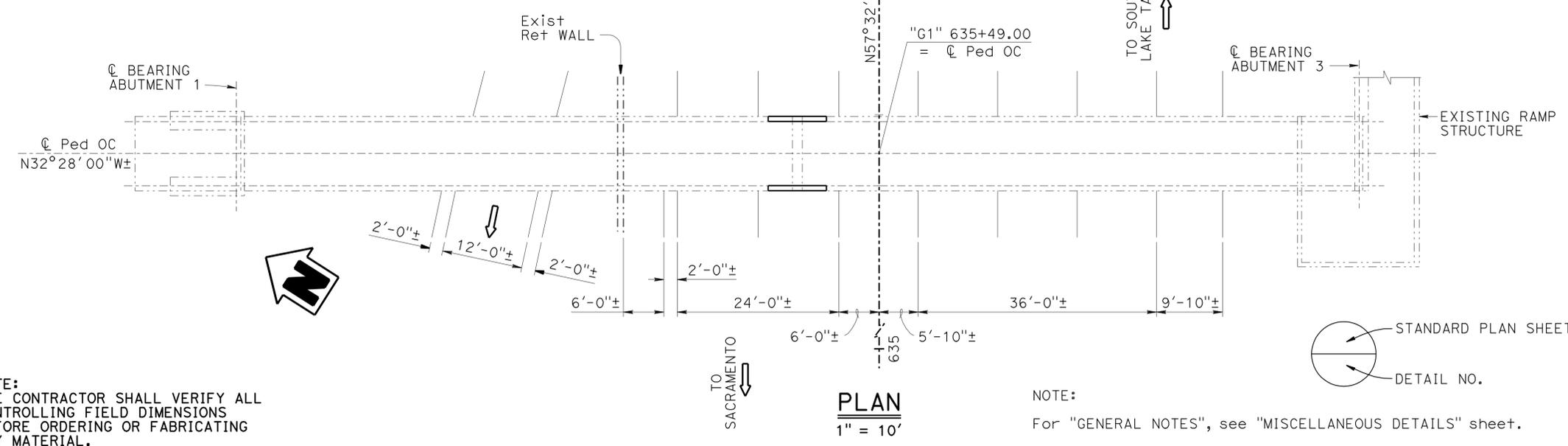
DATUM ELEVATION = 1820.0

LOCATION	PILE TYPE	CUT-OFF ELEVATION (ft)	NOMINAL RESISTANCE (KIP)		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)
			COMPRESSION	TENSION		
Bent 2	36" ø CIDH	1839.5	300	35	1827 (a) 1832 (b) 1830 (c)	1827

Note: Design tip elevations are controlled by: (a) Compression, (b) Tension and (c) Lateral load.

ELEVATION
1" = 10'

- QUANTITIES
- BRIDGE REMOVAL (PORTION) 45 CY
 - STRUCTURE EXCAVATION (BRIDGE) 24 CY
 - STRUCTURE BACKFILL (BRIDGE)
 - TEMPORARY SUPPORT 25 LF
 - 36" CAST-IN-DRILLED-HOLE CONCRETE PILING 21 CY
 - STRUCTURAL CONCRETE, BRIDGE FOOTING 12 CY
 - STRUCTURAL CONCRETE, BRIDGE 185 SOFT
 - ARCHITECTURAL TREATMENT (BRICK TEXTURE) 10,130 LB
 - BAR REINFORCING STEEL (BRIDGE) 306 SOFT
 - PREPARE AND STAIN CONCRETE 120 LB
 - MISCELLANEOUS METAL (PIPE KEY) 2,900 LB
 - MISCELLANEOUS METAL (BRIDGE)



PLAN
1" = 10'

NOTE: For "GENERAL NOTES", see "MISCELLANEOUS DETAILS" sheet.

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

Jeff Sims DESIGN ENGINEER	DESIGN	BY Greg Jones	CHECKED Kevin Harper	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: PEDESTRIAN LOAD 90.0 PSF
	DETAILS	BY B.Huddleston / J.Zhou	CHECKED Kevin Harper	LAYOUT	BY Greg Jones
	QUANTITIES	BY Greg Jones	CHECKED Wendy Hou	SPECIFICATIONS	BY Bryan Nagid

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

BRIDGE NO. 25-0050
POST MILE 17.78

EARTHQUAKE RETROFIT PROJECT
COLOMA STREET PEDESTRIAN OVERCROSSING
GENERAL PLAN

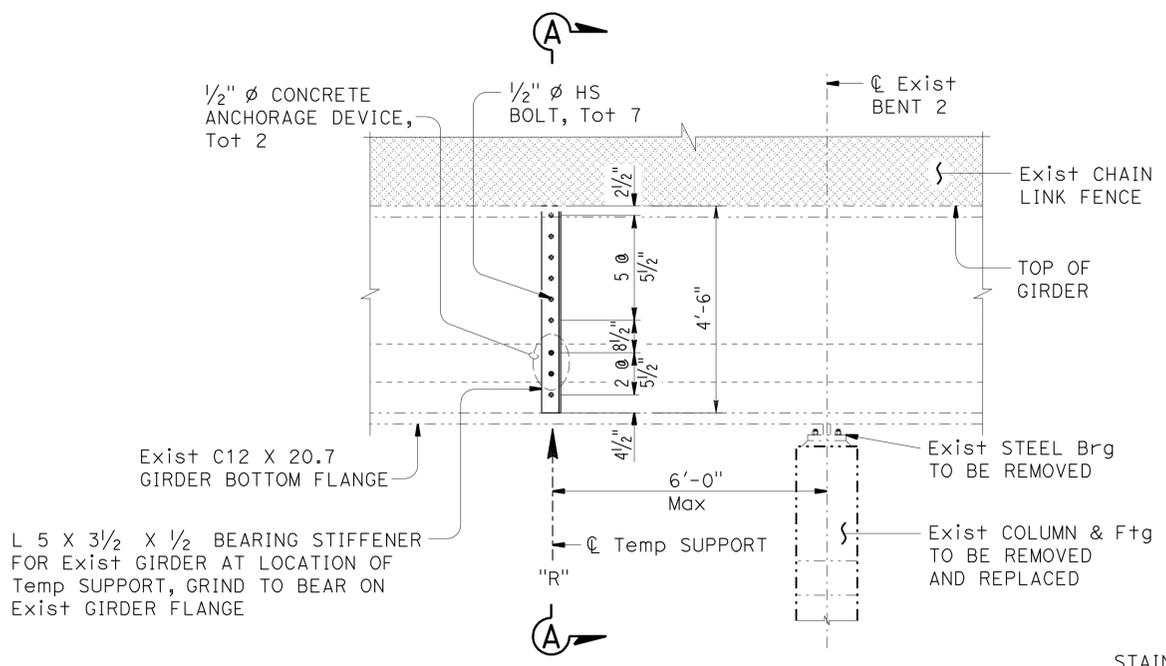
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	26	37

Robert G. Jones 10/24/12
REGISTERED CIVIL ENGINEER DATE

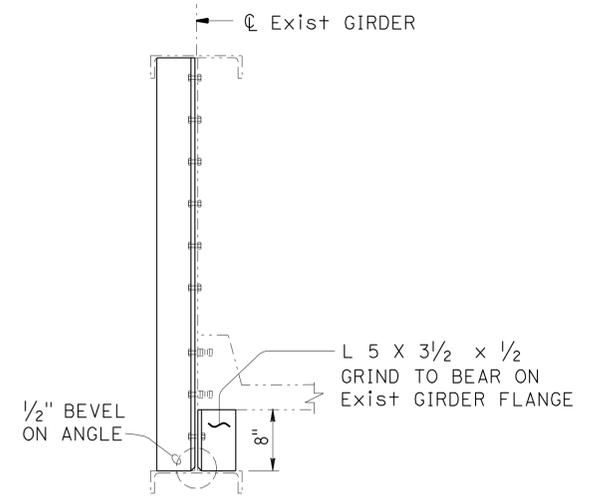
3-11-13
PLANS APPROVAL DATE

Robert G. Jones
No. 65676
Exp. 9/30/13
CIVIL
STATE OF CALIFORNIA

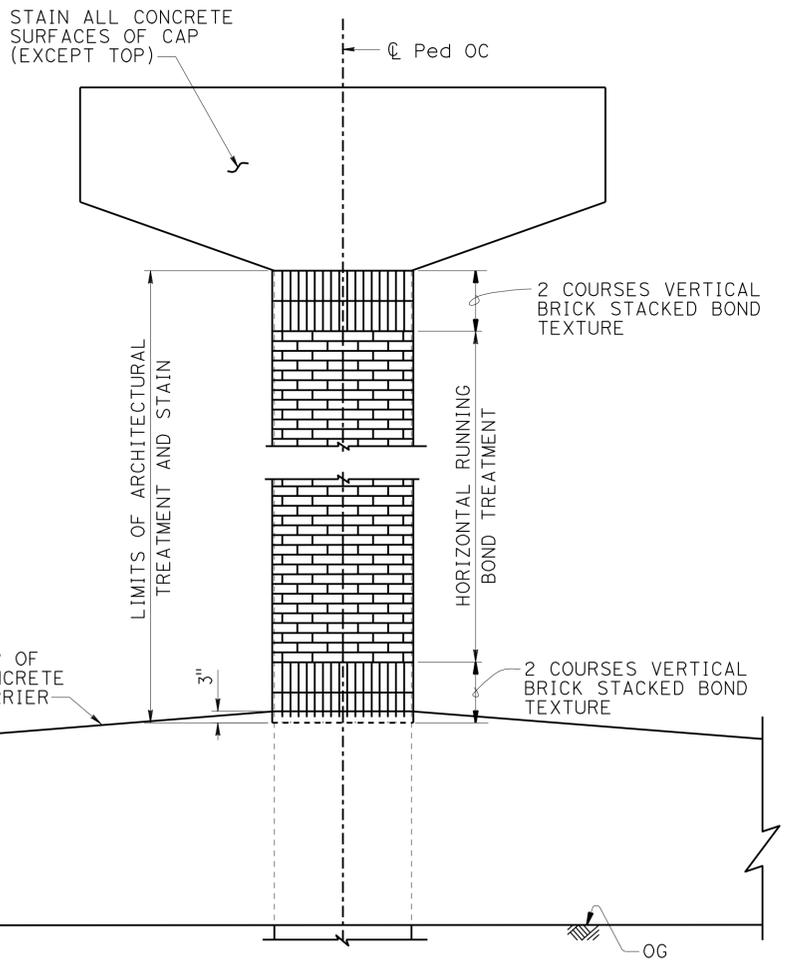
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TEMPORARY SUPPORT
1/2" = 1'-0"



SECTION A-A
1" = 1'-0"



BENT ARCHITECTURAL TREATMENT
1/2" = 1'-0"

TEMPORARY SUPPORT DESIGN DATA TABLE

INITIAL JACKING LOADS AND MINIMUM TEMPORARY SUPPORT DESIGN LOADS		MINIMUM LATERAL TEMPORARY SUPPORT DESIGN VALUES	
Initial jacking force (kips)	Minimum temporary support design load "R" (kips)	Transverse force (kips)	Transverse stiffness (kips/ft)
100	200	30	1050

- NOTES:
- Temporary support to be in place prior to the removal of the existing bent.
 - The minimum temporary support design load is equal to 2.0 times permanent loading. Minimum temporary support design load does not include the weight of temporary support.
 - The minimum lateral temporary support design loads are based on distributing the dead load, wind load and thermal forces to the temporary support, but shall not be less than 0.2g. The "g" shall be equal to the dead load on the temporary support without the 2.0 factor.
 - Initial jacking load is the estimated force that should be applied to the structure. Initial jacking load is due to existing structure permanent load.
 - Temporary support members shall evenly distribute jacking forces to existing superstructure girders.

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

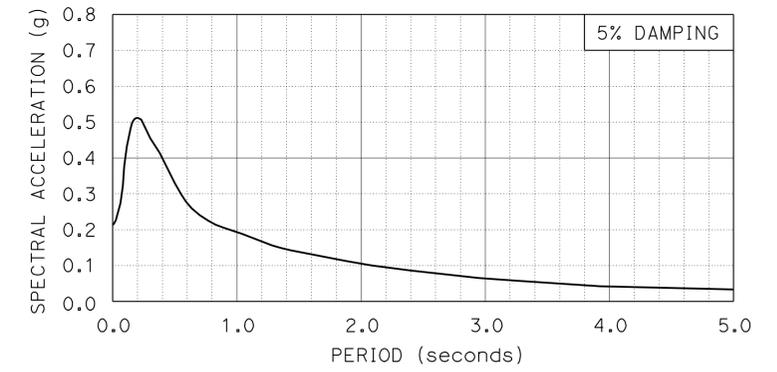
DESIGN: AASHTO LRFD Bridge Design Specifications, Fourth Edition with California Amendments

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.6 November 2010

LIVE LOADING: Pedestrian Load 90 psf

SEISMIC LOADING: Acceleration Response Curve per Caltrans 2009 Seismic Design Procedure (SDP)

Soil profile: $V_{s30} = 1650$ ft/sec
Moment magnitude: $M_{max} = 6.5$
Peak ground acceleration: 0.22 g



CONCRETE:

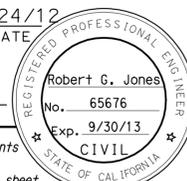
New	Existing
$f_y = 60$ ksi	$f_y = 40$ ksi
$f'c = 3.6$ ksi	$f'c = 5.0$ ksi
$n = 8$	$n = 7$

STRUCTURAL STEEL:

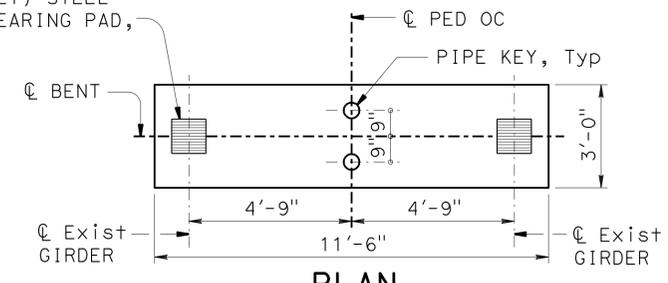
New	Existing
$f_y = 50$ ksi	$f_y = 33$ ksi

EARTHQUAKE RETROFIT PROJECT
COLOMA STREET PEDESTRIAN OVERCROSSING
MISCELLANEOUS DETAILS

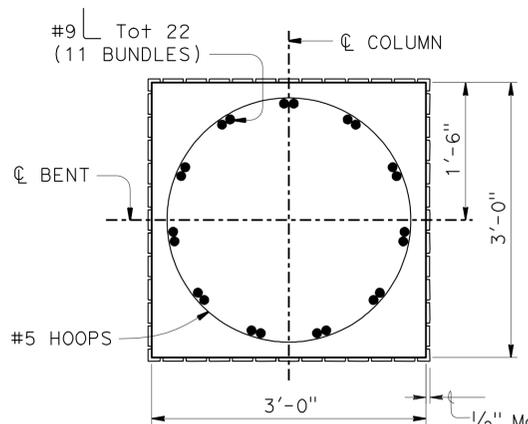
DESIGN BY Greg Jones	CHECKED Kevin Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 25-0050
DETAILS BY Bob Huddleston	CHECKED Kevin Harper		DESIGN BRANCH 1	POST MILE 17.78
QUANTITIES BY G. Jones / K. Harper	CHECKED W. Hou / V. Shostak			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	27	37
 REGISTERED CIVIL ENGINEER DATE 10/24/12					
PLANS APPROVAL DATE 3-11-13					
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.					

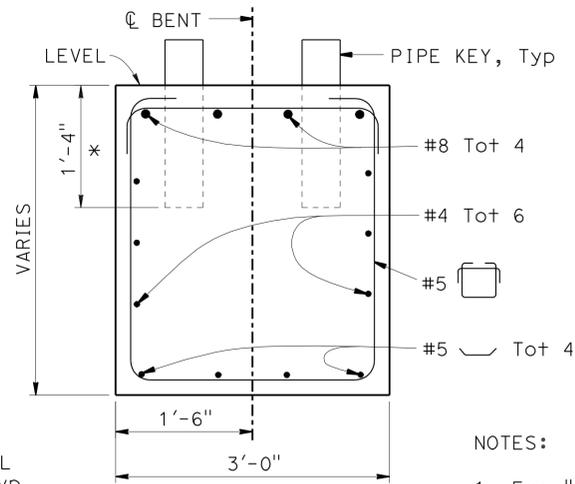
12"x12"x4" PLAIN OR 12"x12"x4" THICK (ELASTOMER ONLY) STEEL Reinf ELASTOMERIC BEARING PAD, Typ



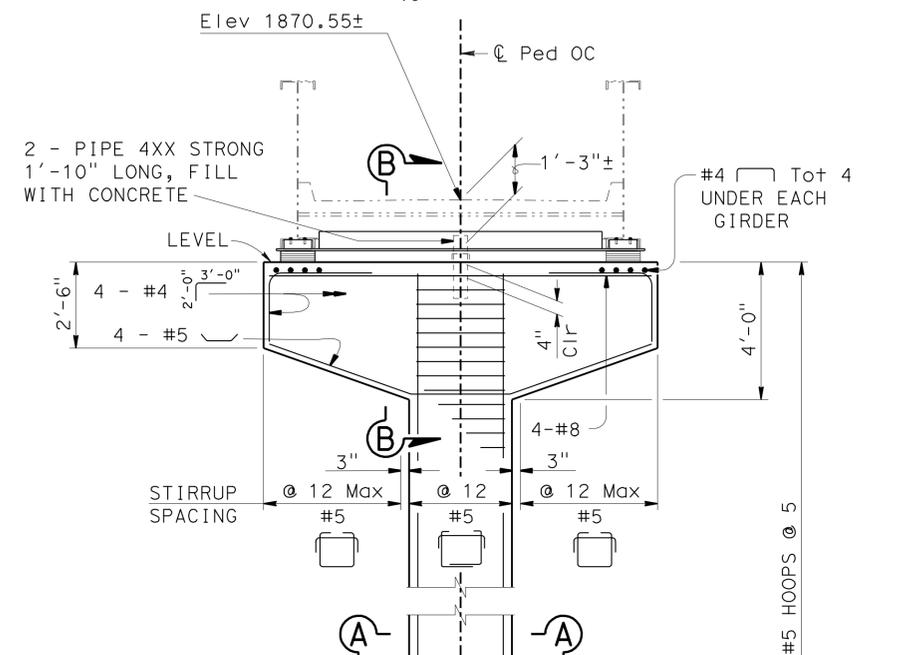
PLAN
3/8" = 1'-0"



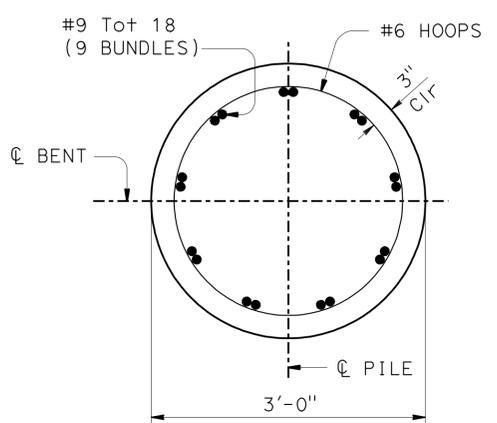
SECTION A-A
1" = 1'-0"



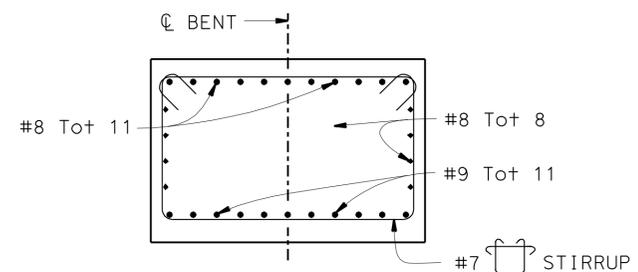
SECTION B-B
1" = 1'-0"



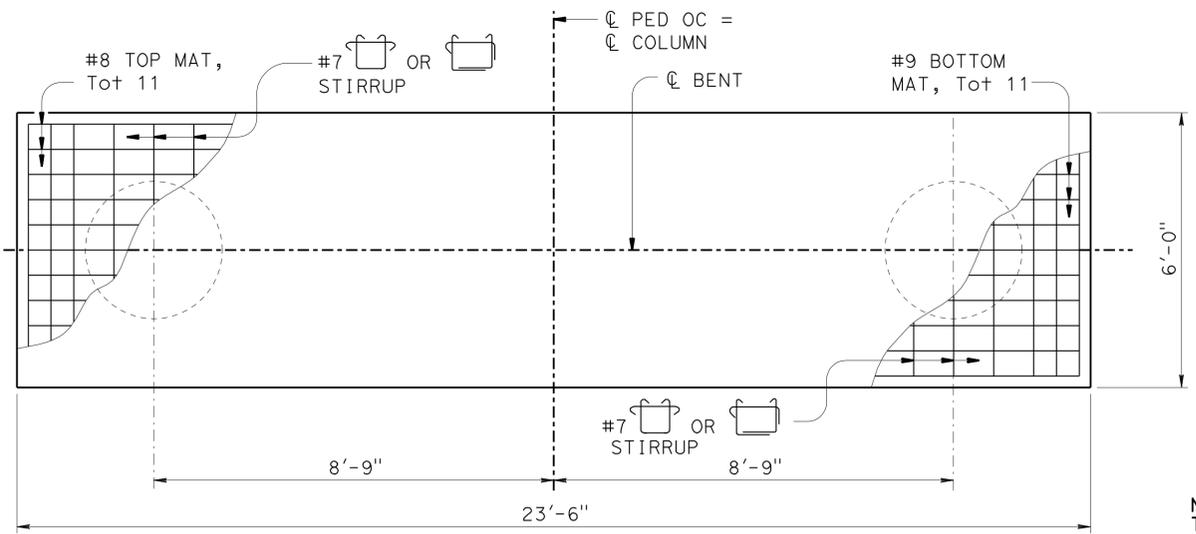
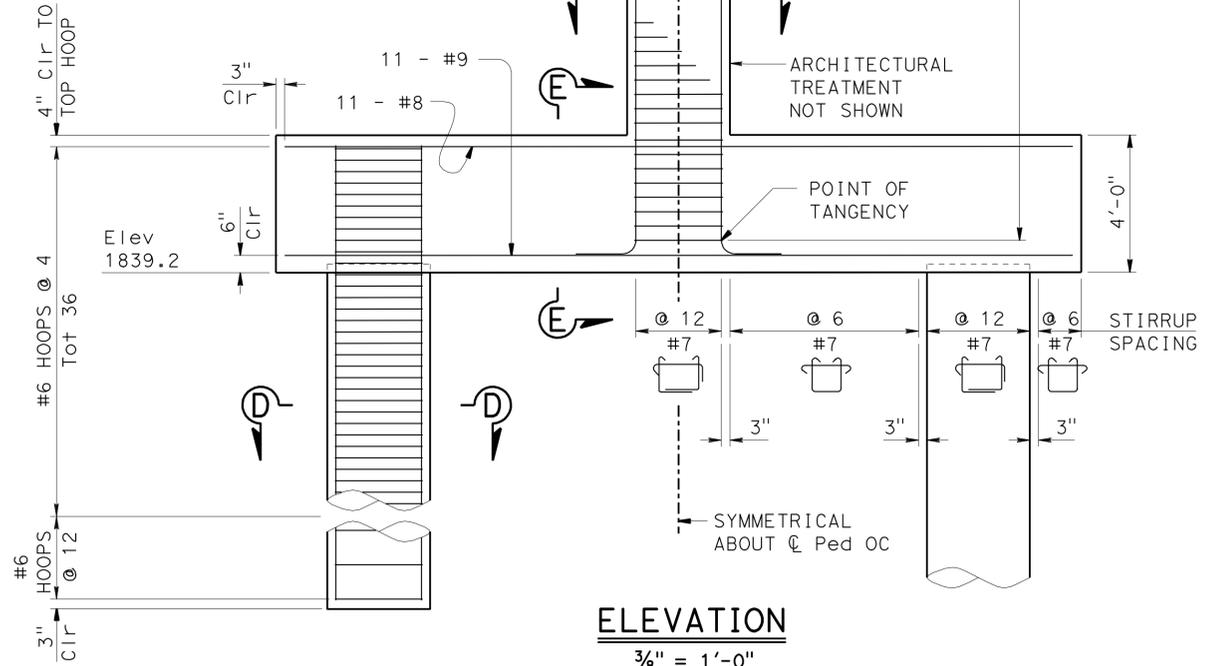
ELEVATION
3/8" = 1'-0"



SECTION D-D
1" = 1'-0"



SECTION E-E
1/2" = 1'-0"



FOOTING PLAN
1/2" = 1'-0"

EARTHQUAKE RETROFIT PROJECT
COLOMA STREET PEDESTRIAN OVERCROSSING
BENT DETAILS

DESIGN	BY Greg Jones	CHECKED Kevin Harper
DETAILS	BY Bob Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Greg Jones	CHECKED Wendy Hou

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 1

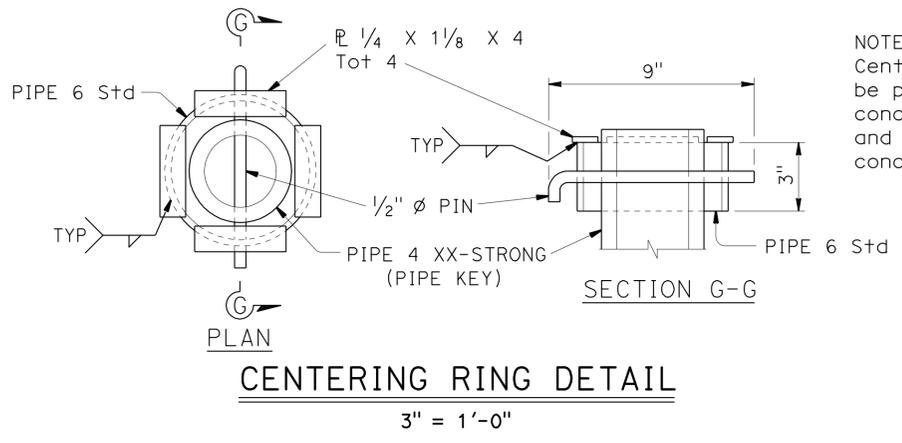
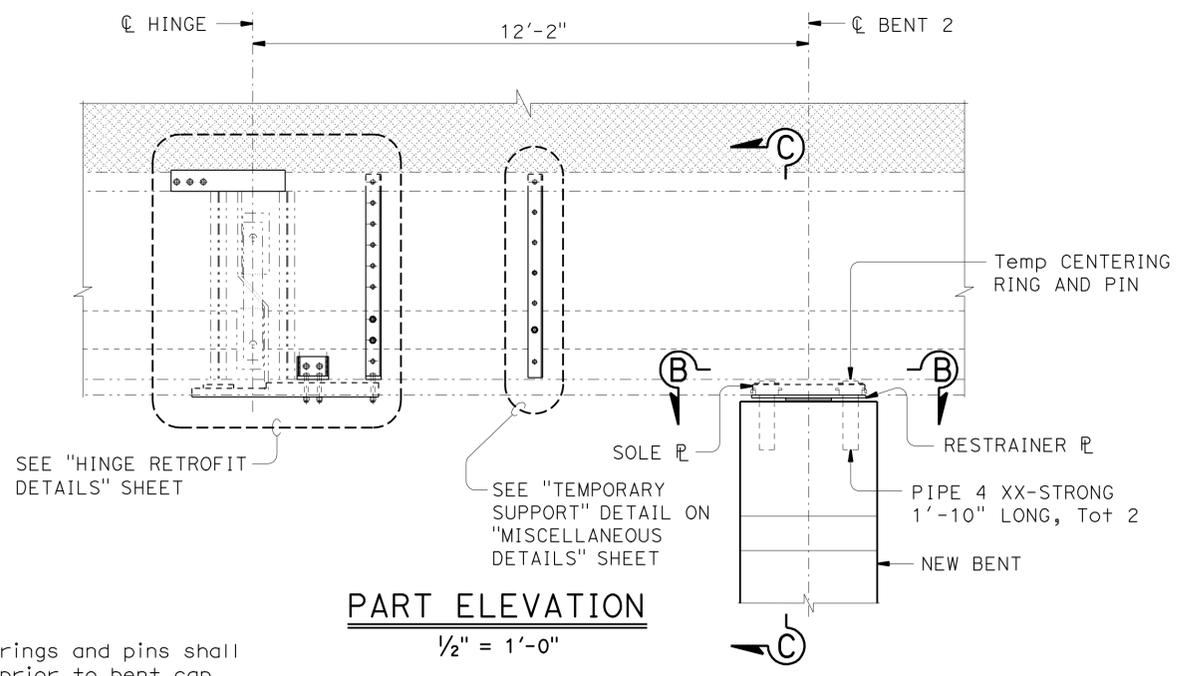
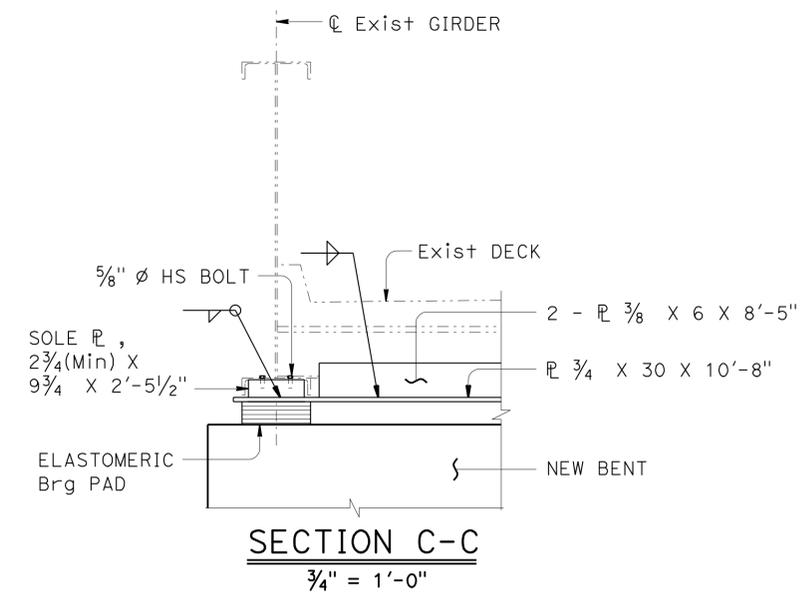
BRIDGE NO.	25-0050
POST MILE	17.78

UNIT: 3576
PROJECT NUMBER & PHASE: 03000000771

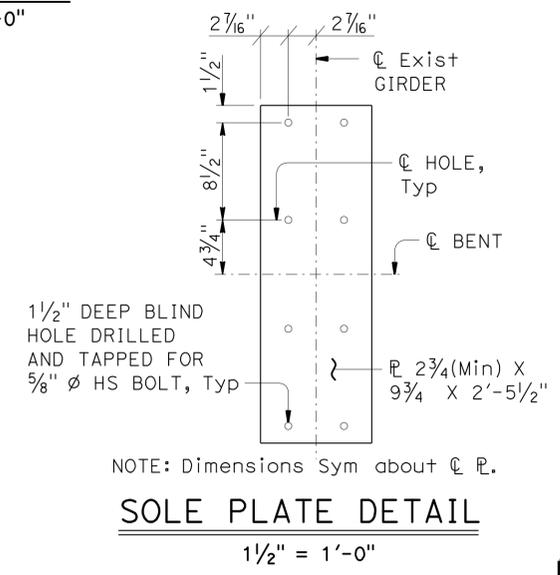
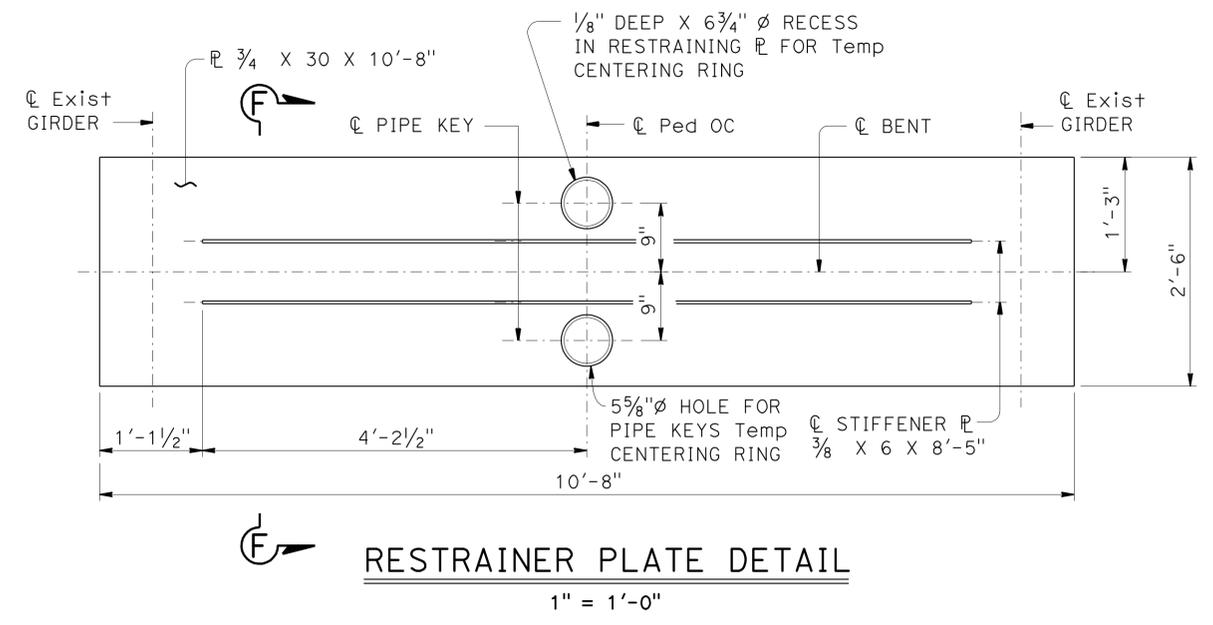
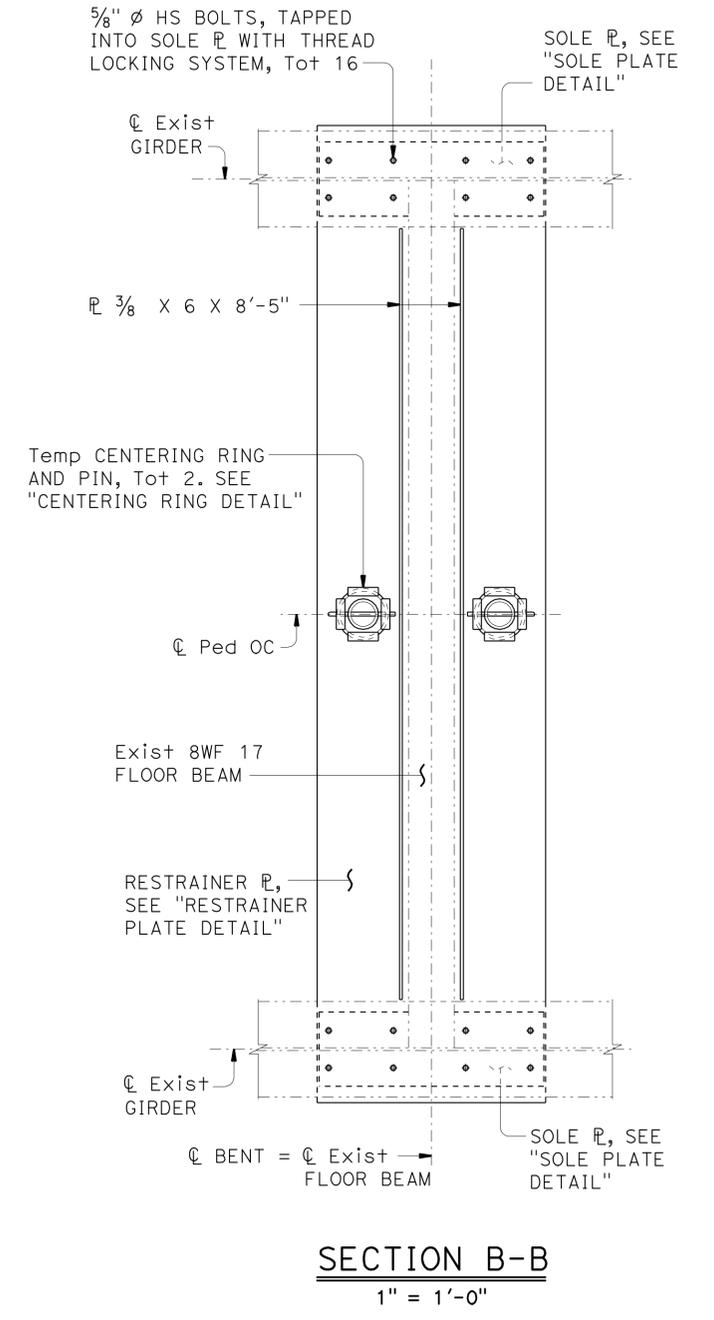
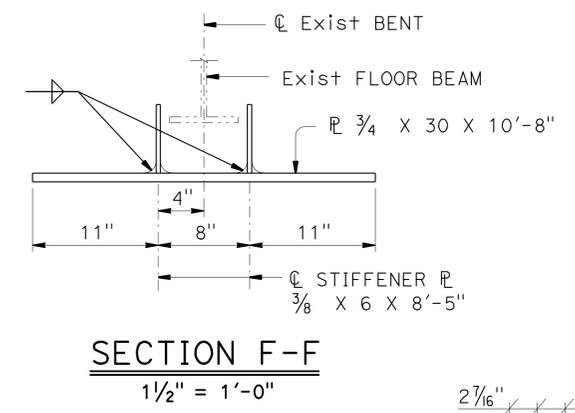
CONTRACT NO.: 03-0F3004

REVISION DATES	SHEET	OF
12-06-11	3	7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	28	37
Robert G. Jones			10/24/12	REGISTERED CIVIL ENGINEER DATE	
3-11-13			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 Robert G. Jones No. 65676 Exp. 9/30/13 CIVIL STATE OF CALIFORNIA					



NOTE:
Centering rings and pins shall be placed prior to bent cap concrete pour. Centering rings and pins shall be removed after concrete has set.



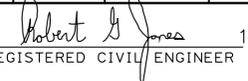
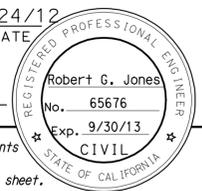
NOTE: Dimensions Sym about C PL.

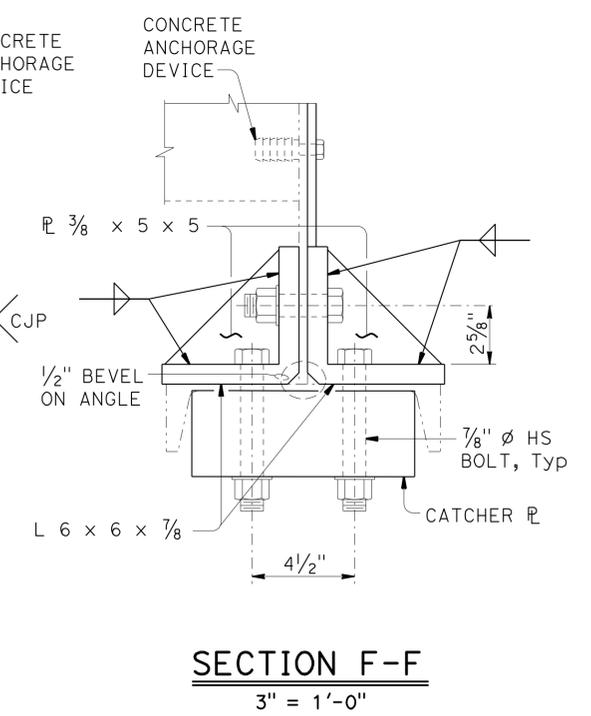
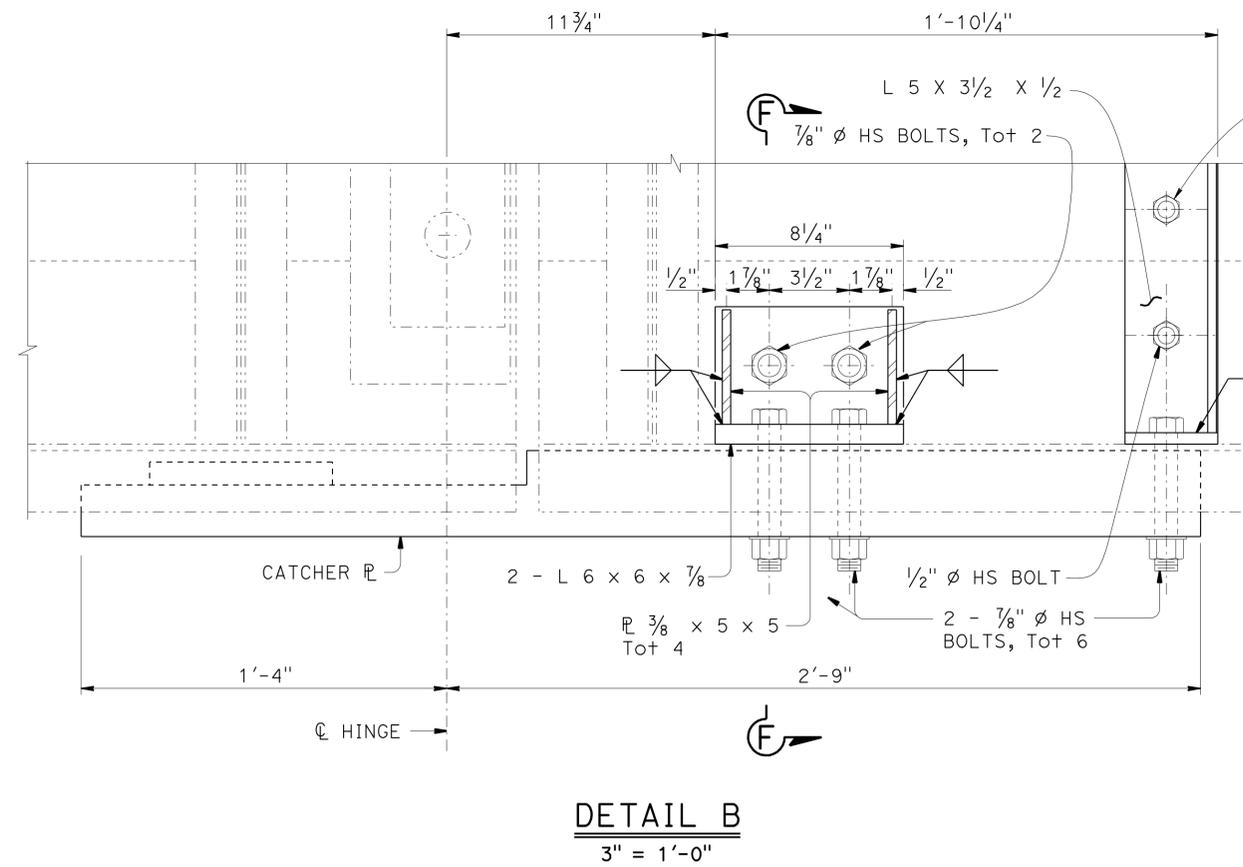
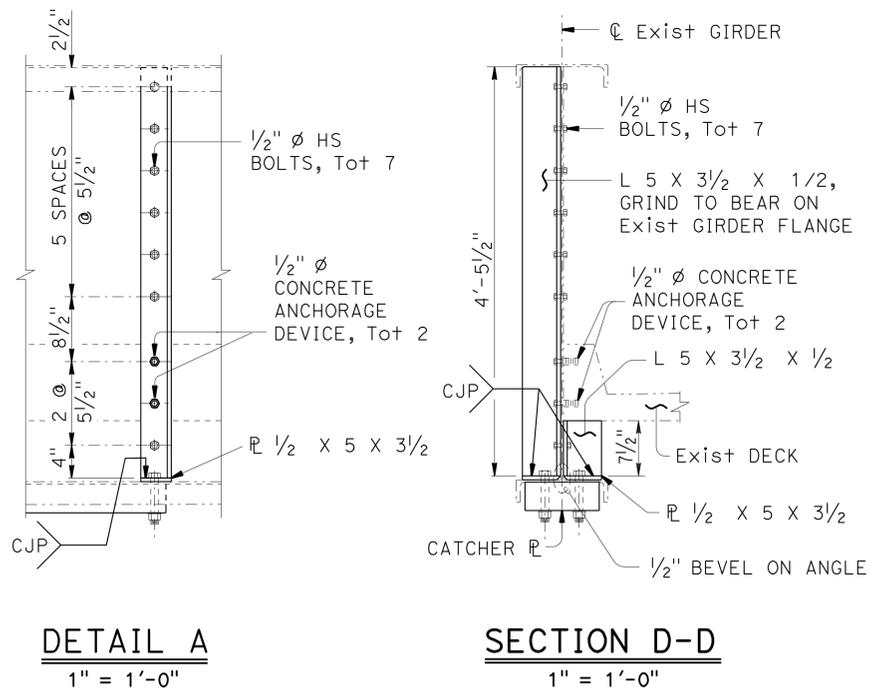
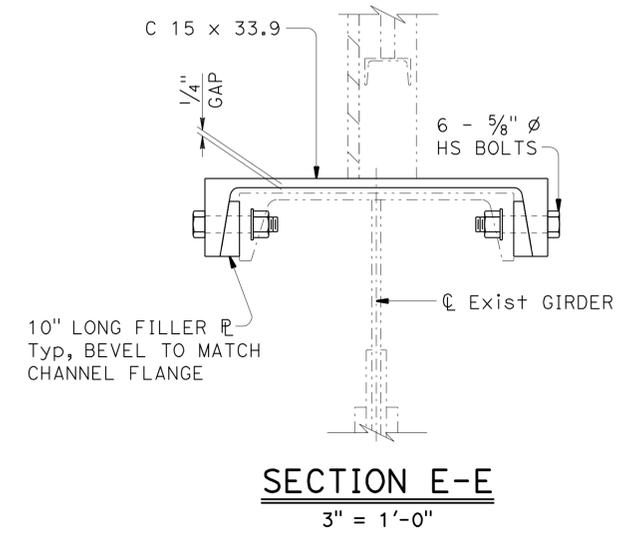
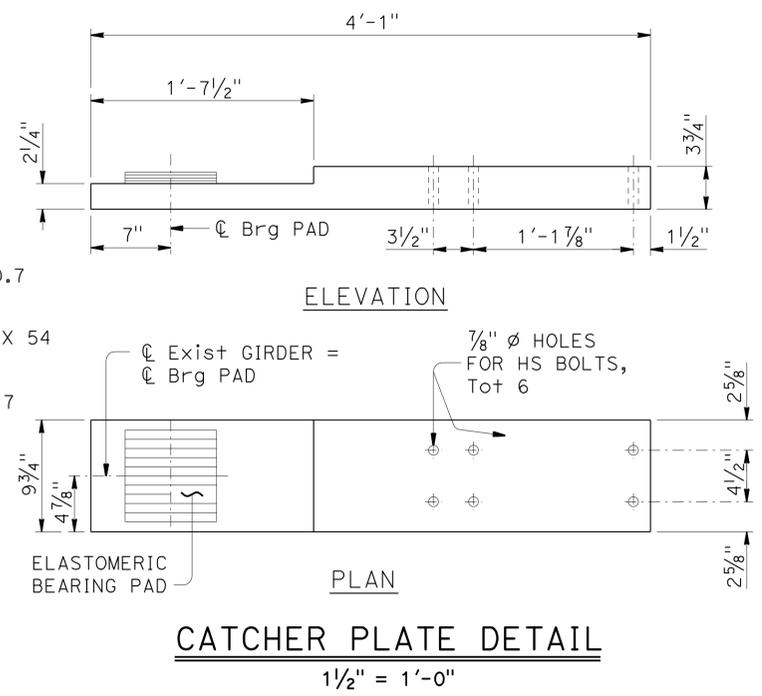
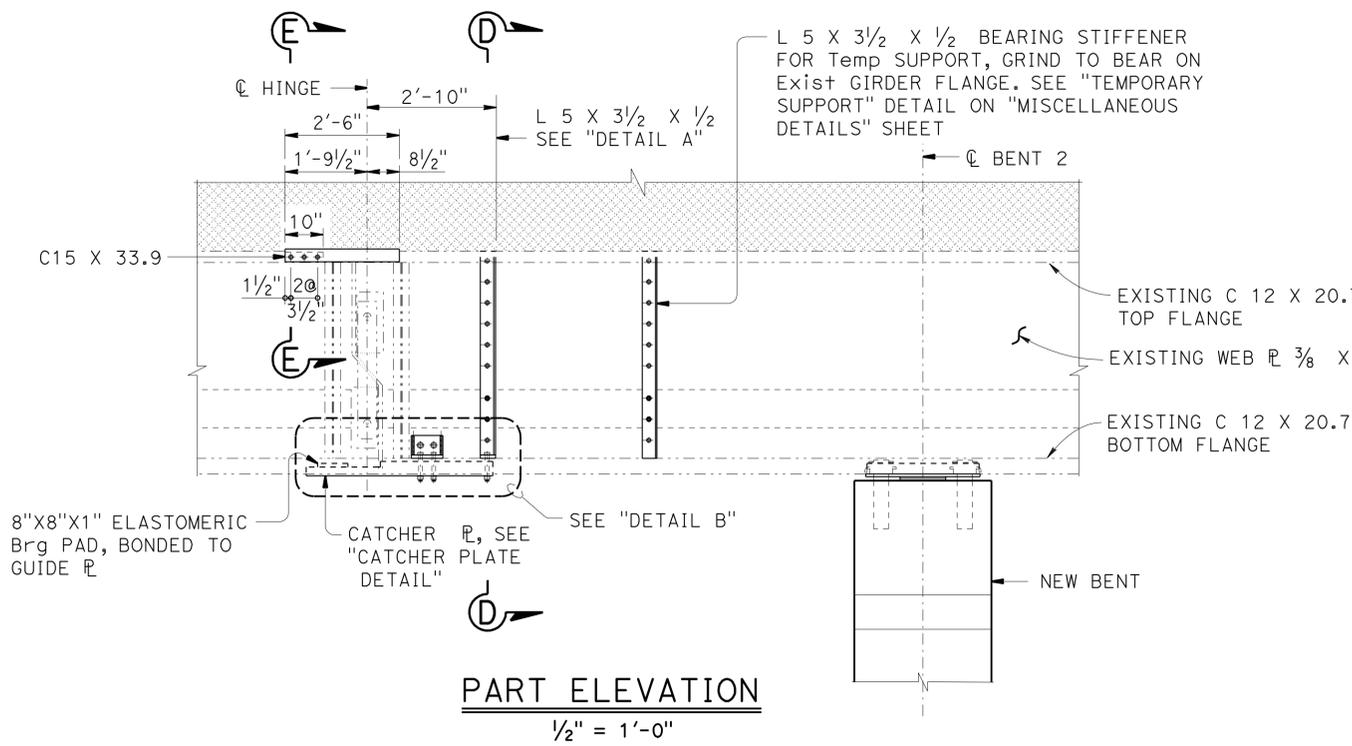
DESIGN	BY Greg Jones	CHECKED Kevin Harper
DETAILS	BY Bob Huddleston	CHECKED Kevin Harper
QUANTITIES	BY Greg Jones	CHECKED Wendy Hou

STATE OF CALIFORNIA	
DEPARTMENT OF TRANSPORTATION	

DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 25-0050
STRUCTURE DESIGN	POST MILE 17.78
DESIGN BRANCH 1	

EARTHQUAKE RETROFIT PROJECT	
COLOMA STREET PEDESTRIAN OVERCROSSING	
GIRDER RETROFIT DETAILS	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	29	37
 REGISTERED CIVIL ENGINEER			10/24/12 DATE		
3-11-13 PLANS APPROVAL DATE					
<small>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.</small>					



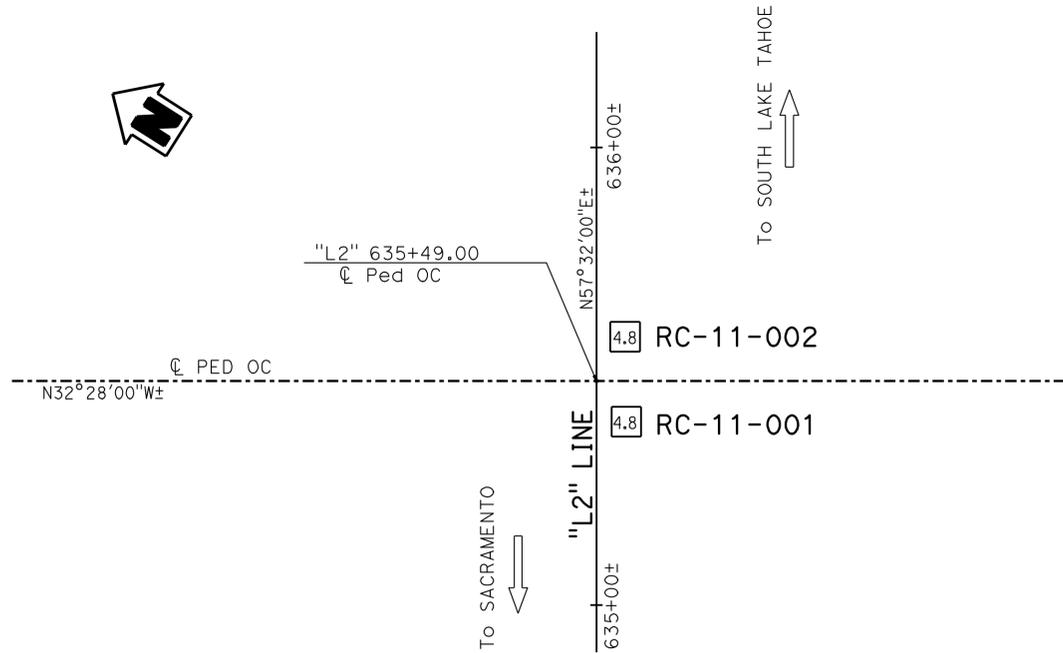
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN BY Greg Jones CHECKED Kevin Harper				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN		BRIDGE NO. 25-0050 POST MILE 17.78		EARTHQUAKE RETROFIT PROJECT COLOMA STREET PEDESTRIAN OVERCROSSING HINGE RETROFIT DETAILS	
DETAILS BY Bob Huddleston CHECKED Kevin Harper					DESIGN BRANCH 1		CONTRACT NO.: 03-0F3004		REVISION DATES: 6-28-12, 6-29-12, 7-11-12	
QUANTITIES BY Greg Jones CHECKED Wendy Hou					UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771		SHEET 5 OF 7		DISREGARD PRINTS BEARING EARLIER REVISION DATES	

USERNAME => s113946 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 10:59

BENCH MARK

The OG elevation located at the Intersection of the \odot of the existing POC and US 50 (Sta 635+49 \odot US 50). Elev = 1845.14'.



PLAN

1" = 20'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8, 19.6	30	37

Chang Xing
 CERTIFIED ENGINEERING GEOLOGIST DATE 5-30-12

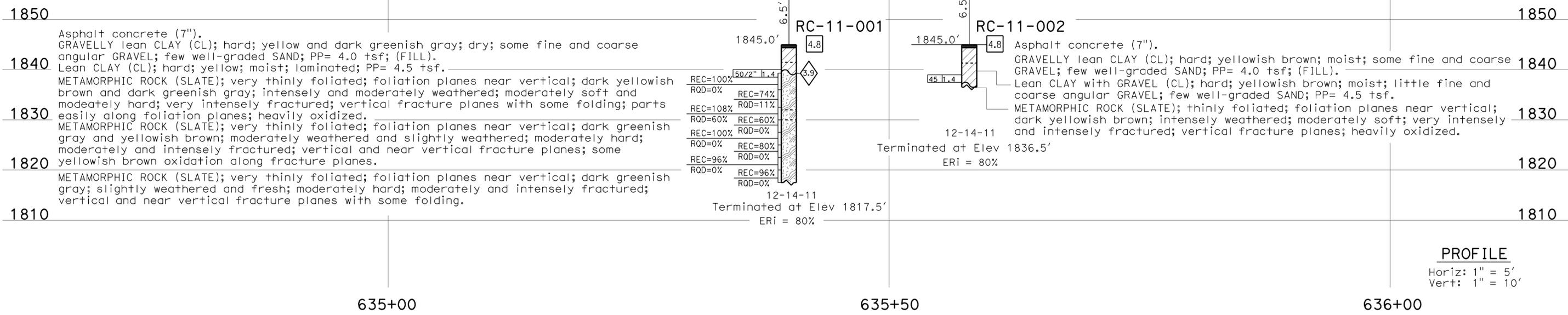
3-11-13
 PLANS APPROVAL DATE

Xing Zheng
 No. 2130
 Exp. 3-31-13
 CERTIFIED ENGINEERING GEOLOGIST
 STATE OF CALIFORNIA

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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2010 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

Note: No ground water encountered during field investigation.



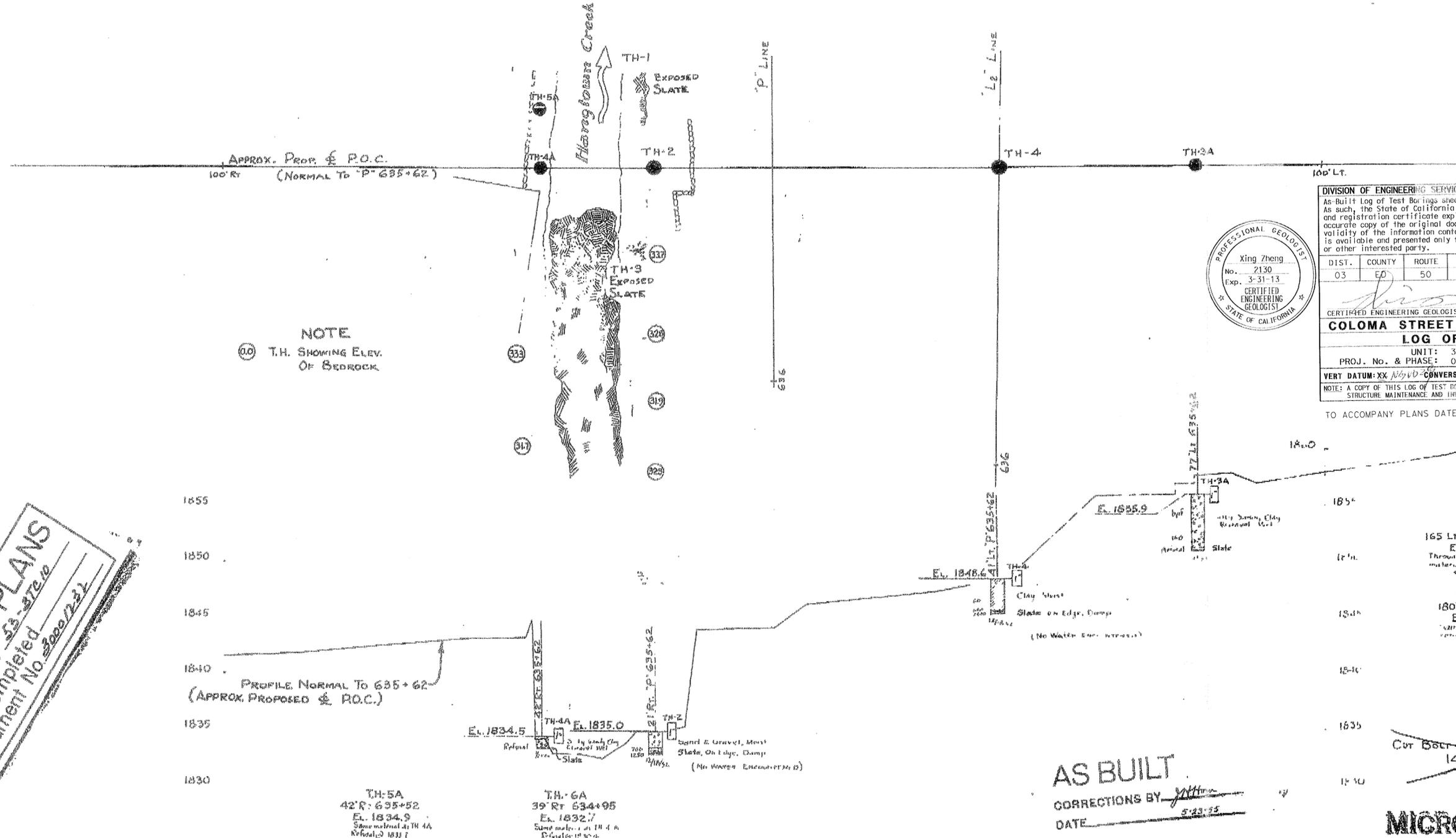
PROFILE

Horiz: 1" = 5'
 Vert: 1" = 10'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		EARTHQUAKE RETROFIT PROJECT	
FUNCTIONAL SUPERVISOR		DRAWN BY: F. Nguyen		DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 25-0050		COLOMA STREET PEDESTRIAN OVERCROSSING	
NAME: R. Buehl		CHECKED BY: A. Barrie		FIELD INVESTIGATION BY: J. Thorne		POST MILE 17.78		LOG OF TEST BORINGS 1 OF 2	
DESIGN BRANCH 1		UNIT: 3643		PROJECT NUMBER & PHASE: 03000000771		CONTRACT NO.: 03-0F3004		REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANES		0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		04-13-12 05-24-12 05-30-12		SHEET 6 OF 7	

USERNAME => S114926 DATE PLOTTED => 13-MAR-2013 TIME PLOTTED => 10:59

Drawn by *Michael*
 October 19, 1953



NOTE
 (O) T.H. SHOWING ELEV. OF BEDROCK



DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES
 As Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.

DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
03	ED	50	17.8,19.6	31	37

CERTIFIED ENGINEERING GEOLOGIST
 King Zheng
 No. 2130
 Exp. 3-31-13
 DATE: 5/30/13

COLOMA STREET POC (SEISMIC RETROFIT)
LOG OF TEST BORINGS 2 OF 2

UNIT: 3643	CONTRACT No. 03000000/71	BRIDGE No. 25-0050
PROJ. No. & PHASE:		

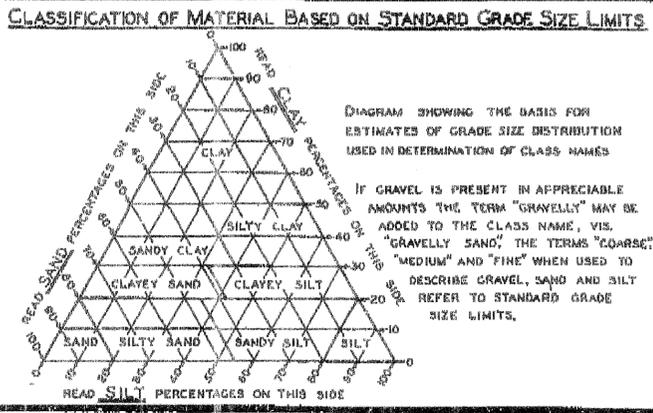
VERT DATUM: XX NVD CONVERSION: XX N/A
 NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA
 TO ACCOMPANY PLANS DATED 3-11-13

AS BUILT PLANS
 Contract No. 53-572-10
 Date Completed
 Document No. 5300/232

AS BUILT
 CORRECTIONS BY: *YH*
 DATE: 5-23-15

~~B.M. #63
 CUT BOLT IN NW COR. ADJ. SIGNAL BASE
 14' E. D. 684+95
 ELEV. 1844.62~~

MICROFILMED

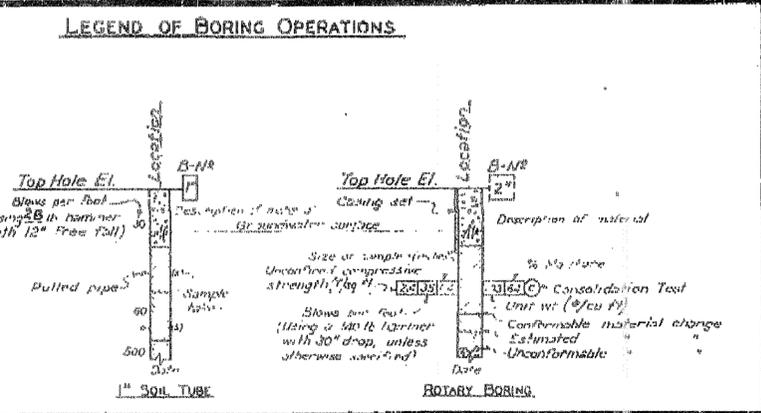


LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC CLAY
SILT	FILLED MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

PLAN OF ANY BORING
PENETROMETER
2 1/2" CONE PENETROMETER
SAMPLER BORING (DRY)
ROTARY BORING (WET)
AUGER BORING (DRY)
JET BORING
CORE BORING
TEST PIT



NOTES

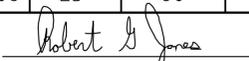
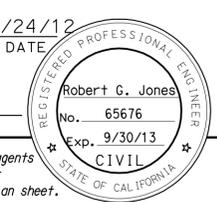
THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A #2 WERNERMAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

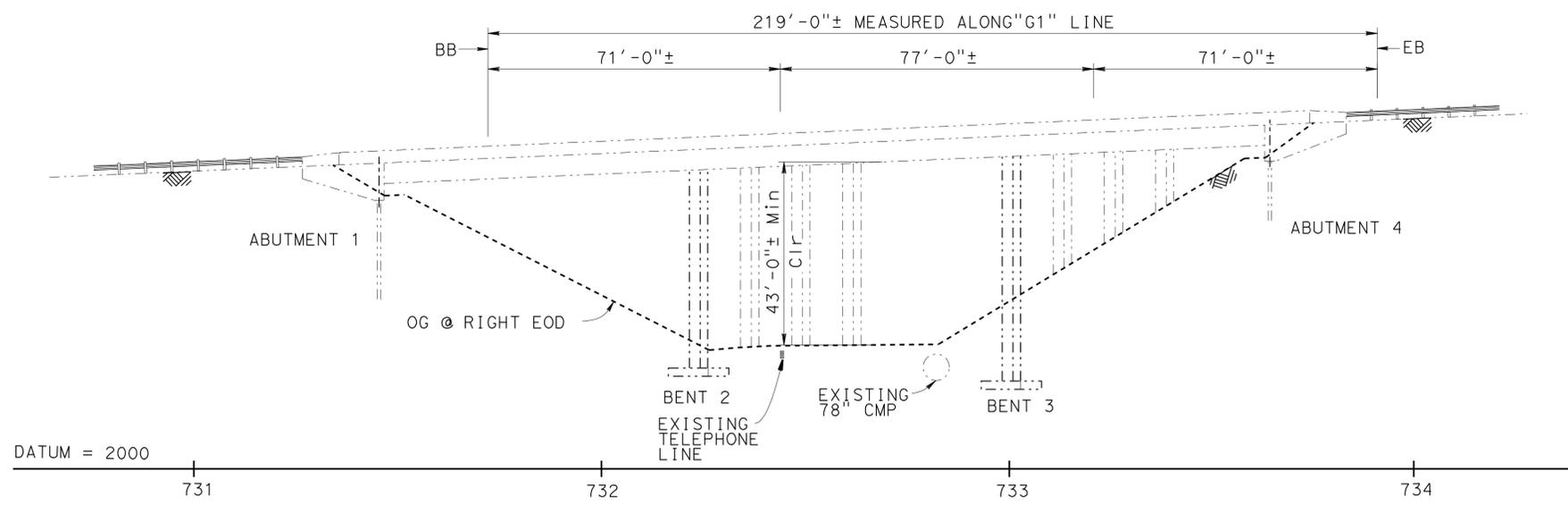
COLOMA STREET PEDESTRIAN OVERCROSSING

LOG OF TEST BORINGS

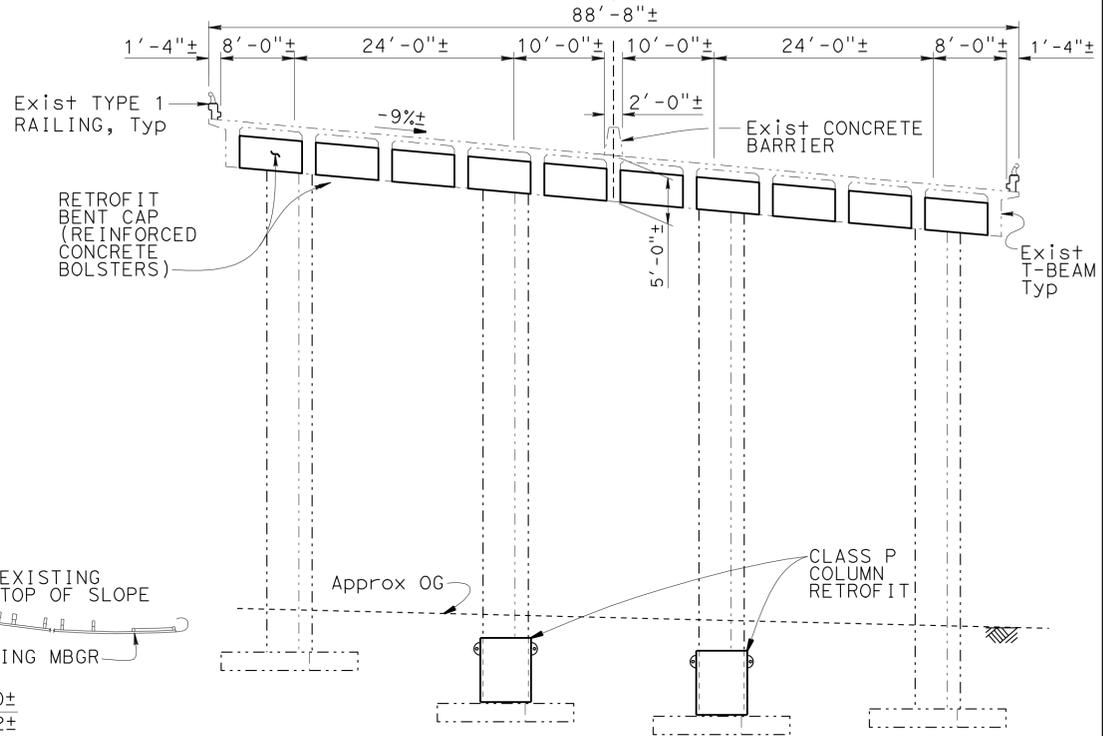
SCALE: HORIZ. 1" = 10' VERT. 1" = 5' BRIDGE 25-50 FILE E-25 DRAWING "G-3154-14"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	32	37
 REGISTERED CIVIL ENGINEER DATE 10/24/12					
3-11-13 PLANS APPROVAL DATE					
<small>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.</small>					

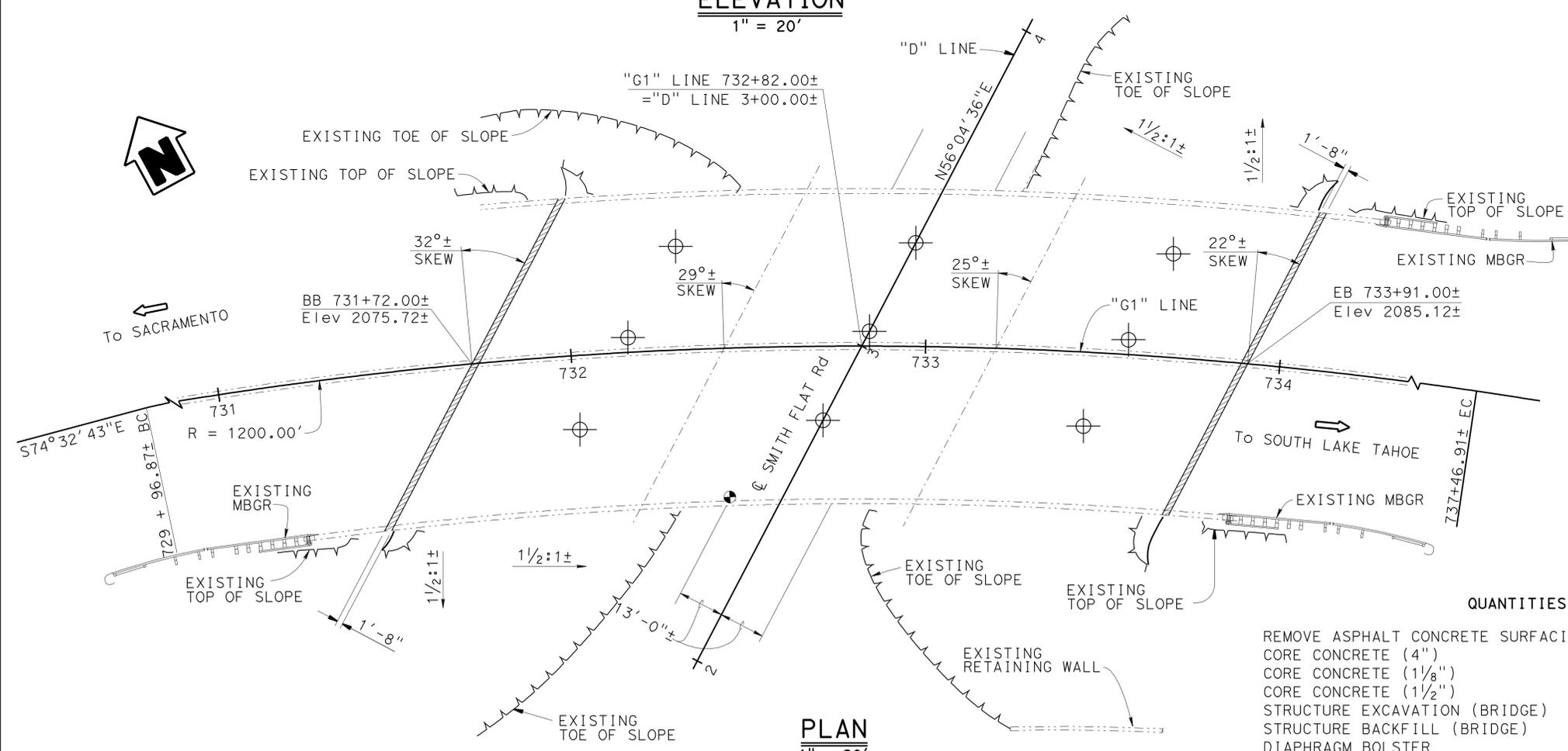
- LEGEND:
- Indicates Approx Point of Min Vert Cir
 - ▭ Indicates limits of remove existing AC overlay (thickness = 2"±), and replace with asphaltic plug
 - Indicates existing structure
 - ⊕ Indicates approximate location of 4" Ø deck cores. Exact location to be determined by the Engineer. Patch cored holes with rapid setting concrete.



ELEVATION
1" = 20'



TYPICAL SECTION
1" = 10'



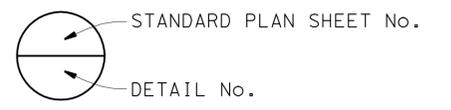
PLAN
1" = 20'

INDEX TO PLANS

SHEET No.	TITLE
1.	GENERAL PLAN
2.	BENT RETROFIT DETAILS No. 1
3.	BENT RETROFIT DETAILS No. 2
4.	BENT RETROFIT DETAILS No. 3
5.	BENT RETROFIT DETAILS No. 4
6.	ASPHALTIC PLUG JOINT SEAL DETAILS

STANDARD PLANS 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)



QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	316	SQFT
CORE CONCRETE (4")	5	LF
CORE CONCRETE (1 1/8")	480	LF
CORE CONCRETE (1 1/2")	160	LF
STRUCTURE EXCAVATION (BRIDGE)	85	CY
STRUCTURE BACKFILL (BRIDGE)	68	CY
DIAPHRAGM BOLSTER	40	EA
JOINT SEAL (ASPHALTIC PLUG)	190	LF
COLUMN CASING	5,865	LB

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

For "GENERAL NOTES", see "ASPHALTIC PLUG JOINT SEAL DETAILS" sheet.

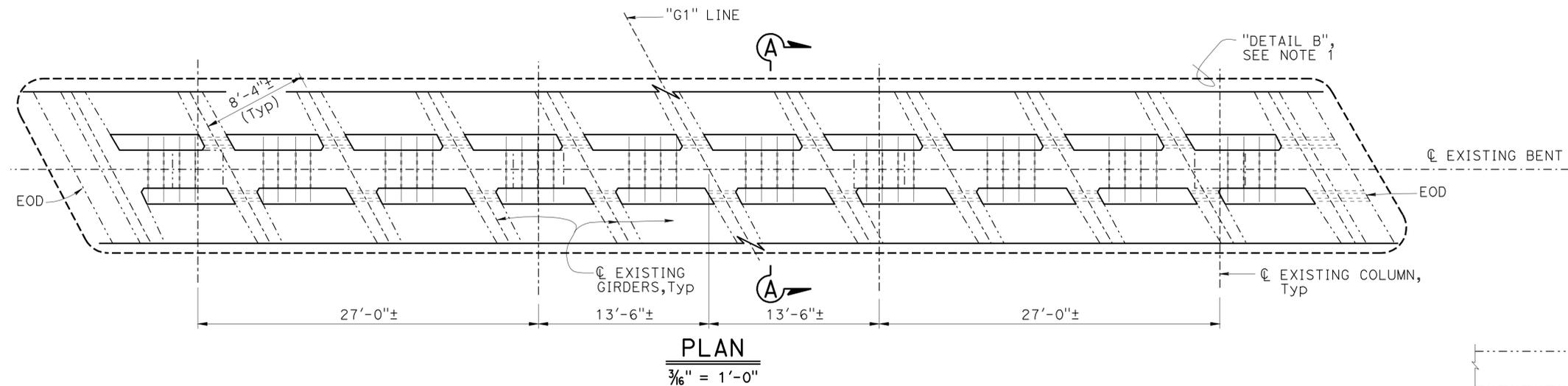
DESIGN ENGINEER Jeff Sims	DESIGN	BY Greg Jones	CHECKED Kevin Harper	LOAD & RESISTANCE FACTOR DESIGN	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	25-0064	
	DETAILS	BY Bob Huddleston	CHECKED Kevin Harper	LAYOUT		BY Greg Jones	POST MILE	19.61
	QUANTITIES	BY Eric Watson	CHECKED Greg Thornton	SPECIFICATIONS		BY Bryan Nagid	PLANS AND SPECS COMPARED	Bryan Nagid

EARTHQUAKE RETROFIT PROJECT

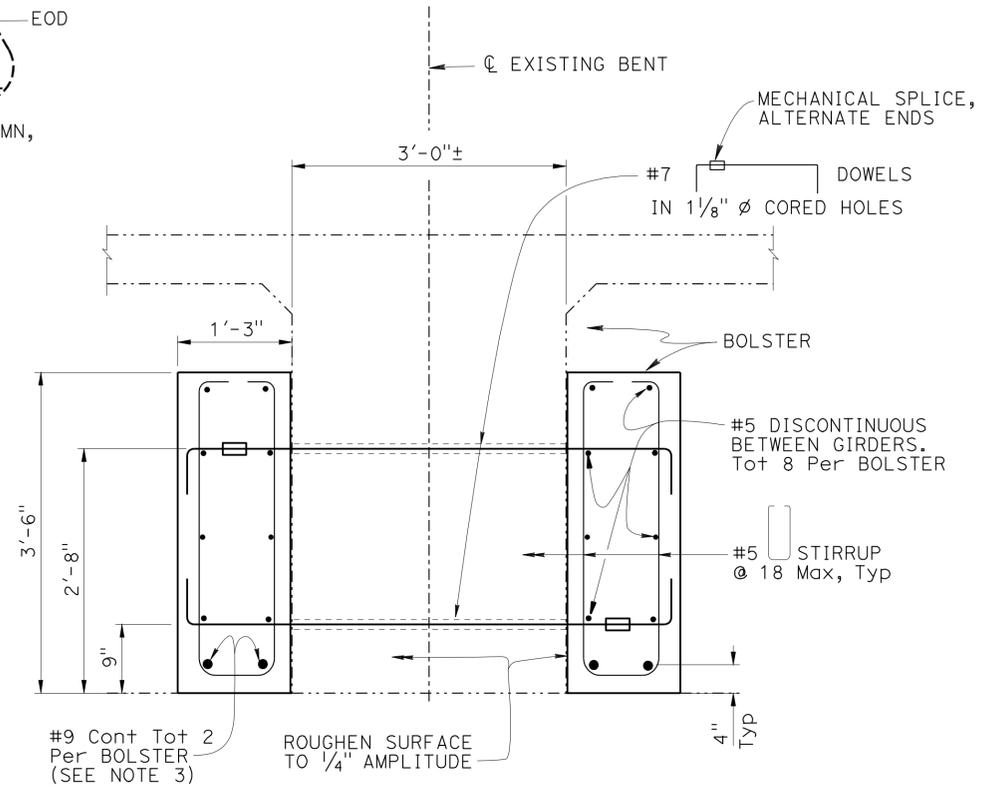
SMITH FLAT ROAD UNDERCROSSING

GENERAL PLAN

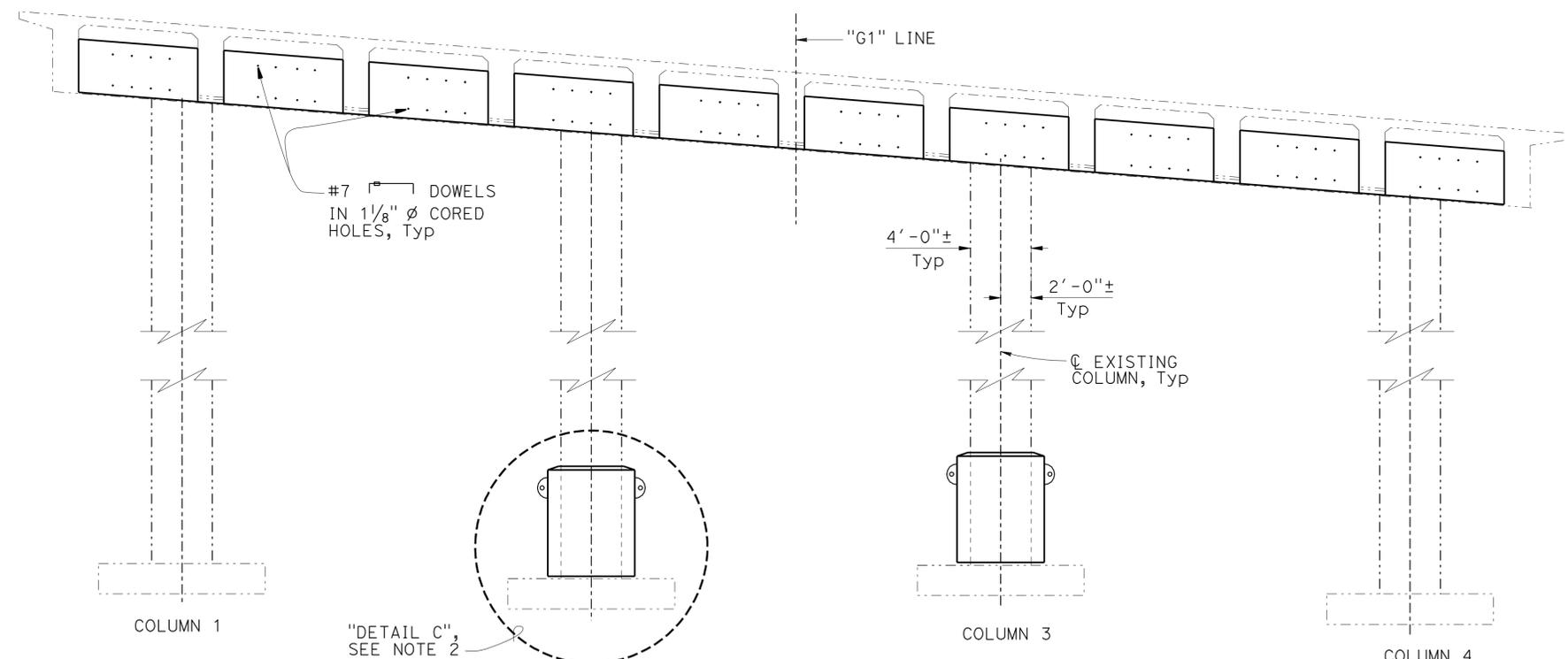
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	33	37
Robert G. Jones			10/24/12		
REGISTERED CIVIL ENGINEER			DATE		
3-11-13			PLANS APPROVAL DATE		
Robert G. Jones			REGISTERED PROFESSIONAL ENGINEER		
No. 65676			STATE OF CALIFORNIA		
Exp. 9/30/13			CIVIL		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



PLAN
3/16" = 1'-0"



SECTION A-A
1" = 1'-0"

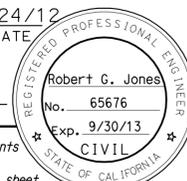


ELEVATION
3/16" = 1'-0"

- NOTES:
- For "DETAIL B", see "BENT RETROFIT DETAILS No. 2" sheet for Bent 2 and "BENT RETROFIT DETAILS No. 3" sheet for Bent 3.
 - For "DETAIL C", see "BENT RETROFIT DETAILS No. 4" sheet.
 - No lap splices permitted.
- Indicates existing structure.

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

DESIGN BY Greg Jones CHECKED Kevin Harper				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN		EARTHQUAKE RETROFIT PROJECT		
DETAILS BY G. M. Souza / J. Zhou CHECKED Kevin Harper					BRIDGE NO. 25-0064		SMITH FLAT ROAD UNDERCROSSING		
QUANTITIES BY Eric Watson CHECKED Greg Thornton					POST MILE 19.61		BENT RETROFIT DETAILS NO. 1		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771		CONTRACT NO.: 03-0F3004	
				0 1 2 3		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES SHEET OF 02-08-12 10-05-12 07-14-12 2 6	

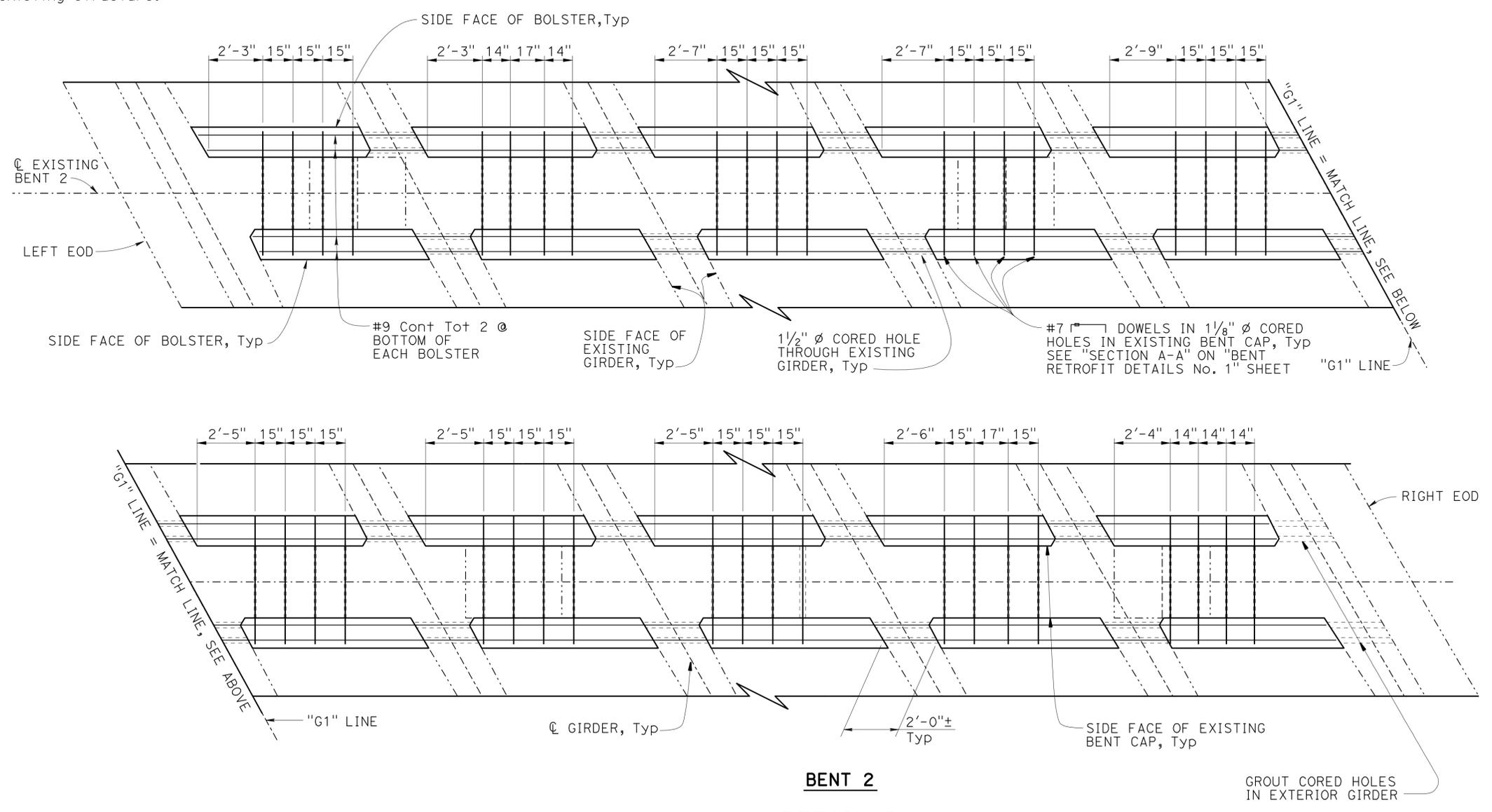
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Riv	50	17.8,19.6	34	37
 REGISTERED CIVIL ENGINEER			10/24/12	DATE	
3-11-13 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

NOTES:

1. Location of cored holes for dowels shown in Bent Cap are approximate. Prior to coring holes in concrete, the Contractor shall locate all reinforcing steel and adjust locations of the holes to clear all reinforcing bars. Final hole locations are subject to approval by the Engineer.
2. Roughen concrete surface of existing cap to 1/4" minimum amplitude.

LEGEND:

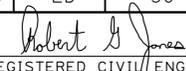
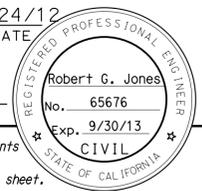
----- Indicates existing structure.

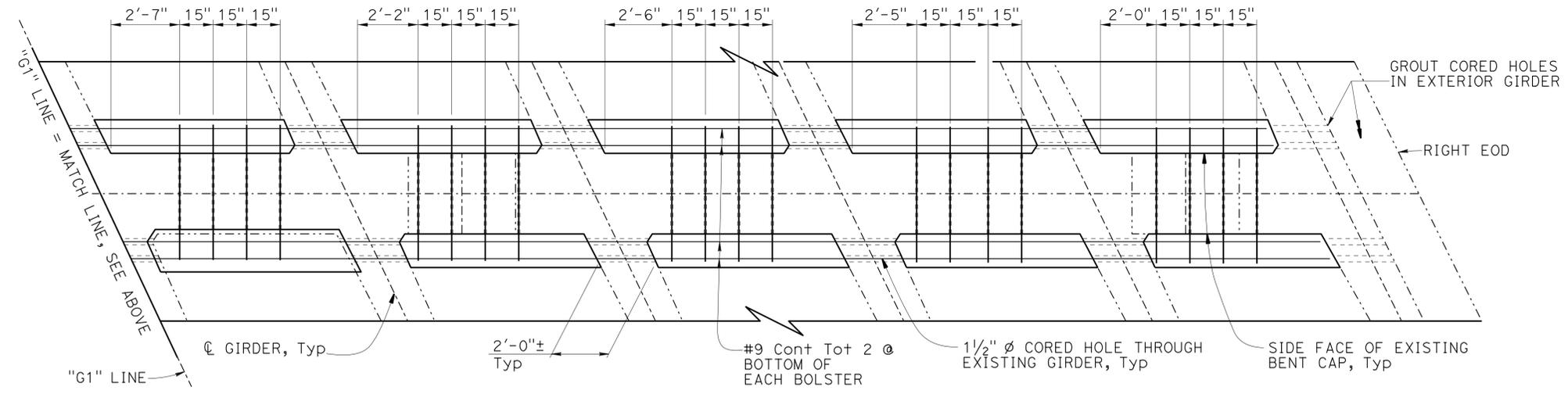
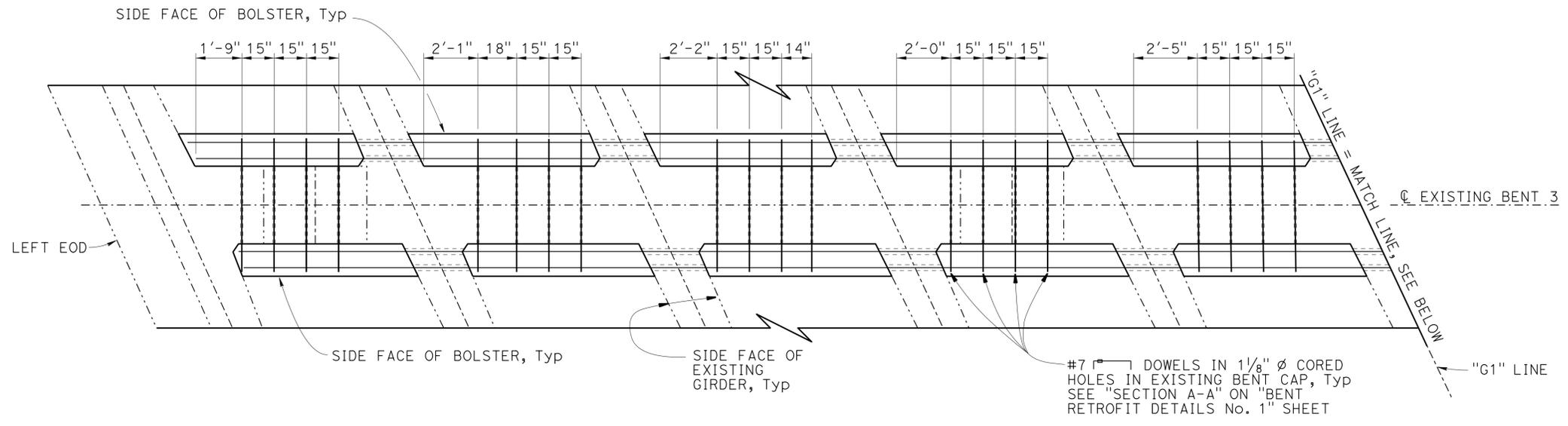


BENT 2
DETAIL B
 3/8" = 1'-0"

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

DESIGN BY Greg Jones CHECKED Kevin Harper				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. 25-0064	EARTHQUAKE RETROFIT PROJECT SMITH FLAT ROAD UNDERCROSSING BENT RETROFIT DETAILS No. 2	
DETAILS BY G. M. Souza / J. Zhou CHECKED Kevin Harper						POST MILE 19.61		
QUANTITIES BY Eric Watson CHECKED Greg Thornton								
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771	CONTRACT NO.: 03-0F3004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 02-08-12 06-26-12 10-05-12	SHEET 3 OF 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	35	37
 REGISTERED CIVIL ENGINEER			10/24/12	DATE	
3-11-13 PLANS APPROVAL DATE					
<small>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.</small>					

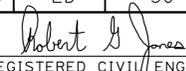
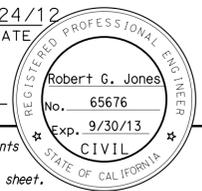


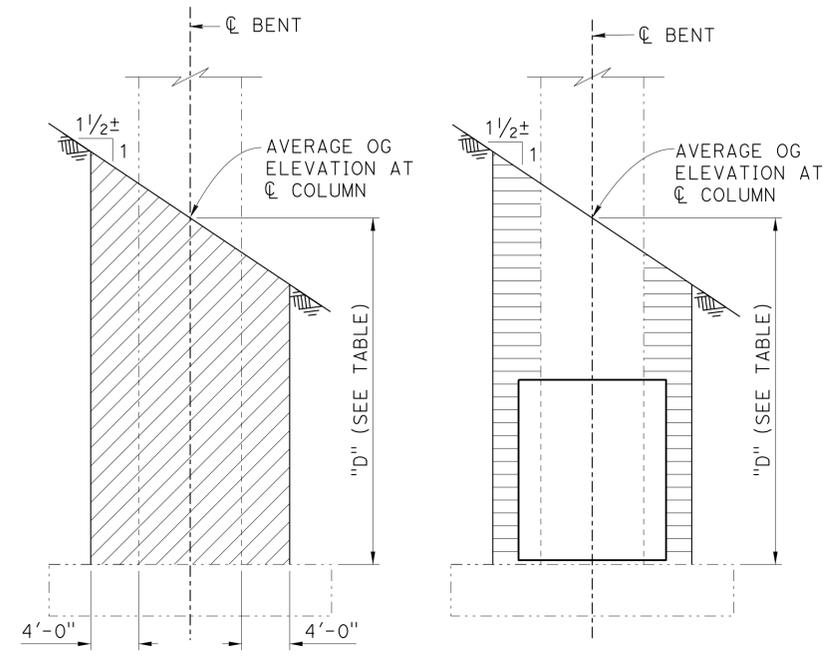
BENT 3
DETAIL B
3/8" = 1'-0"

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

NOTE: See "NOTES" on "BENT RETROFIT DETAILS No. 2" sheet.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771		CONTRACT NO.: 03-0F3004		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 02-16-12 03-02-12 06/26/12		SHEET OF 4 6	
DESIGN	BY Greg Jones	CHECKED Kevin Harper	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO.		EARTHQUAKE RETROFIT PROJECT SMITH FLAT ROAD UNDERCROSSING BENT RETROFIT DETAILS No. 3								
DETAILS	BY G. M. Souza / J. Zhou	CHECKED Kevin Harper					25-0064										
QUANTITIES	BY Eric Watson	CHECKED Greg Thornton					19.61										

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8,19.6	36	37
 REGISTERED CIVIL ENGINEER			10/24/12	DATE	
3-11-13 PLANS APPROVAL DATE					
<small>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.</small>					

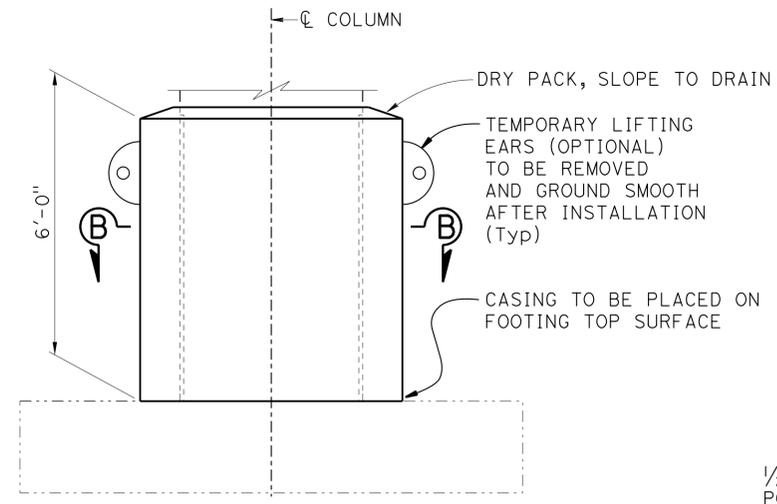


STRUCTURE EXCAVATION
NO SCALE

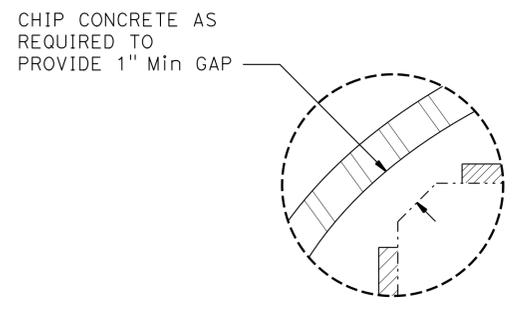
STRUCTURE BACKFILL
NO SCALE

OG ELEVATION TABLE	
LOCATION	DISTANCE "D"
BENT 2, COLUMN 2	9'-0"±
BENT 2, COLUMN 3	12'-0"±
BENT 3, COLUMN 2	15'-0"±
BENT 3, COLUMN 3	16'-0"±

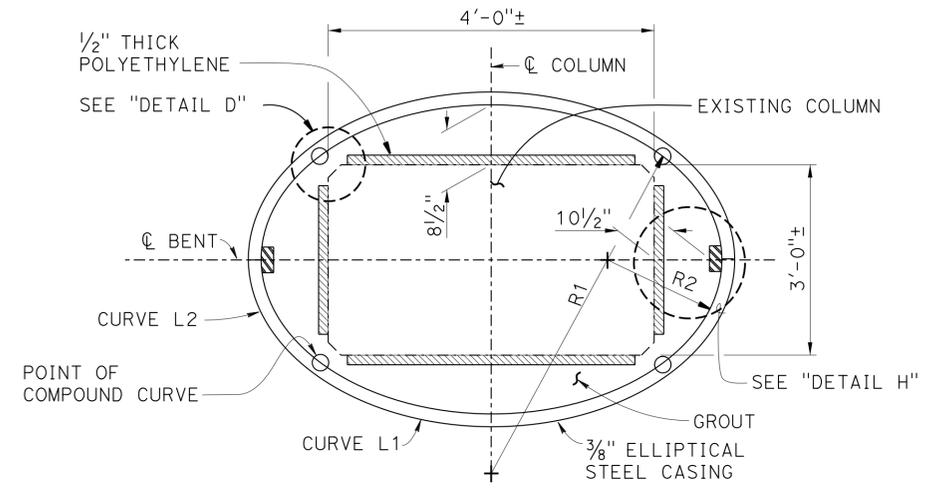
LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
NO SCALE



DETAIL C
1/2" = 1'-0"



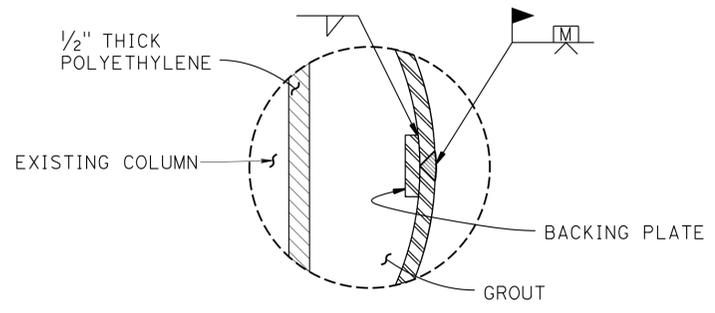
DETAIL D



NOTE:
Radius R1, R2 to be determined by the Contractor and subject to approval of the Engineer.

SECTION B-B
NO SCALE

- NOTES:
- Appropriate injection nozzles to be provided on casing, but removed and ground flush following completion of grouting operation.
 - All voids between steel casing and polyethylene to be filled with grout.
 - Location and number of vertical welds to be determined by the Contractor and subject to the approval of the Engineer. The location of casing welds are for illustration. No skip welds allowed.
 - Steel casing to be 3/8 inch thick minimum. Backing plates to be 3/8 inch thick.
 - Waterproofing shall extend full height of steel casing.
- Indicates existing structure.



DETAIL H

DESIGN	BY Greg Jones	CHECKED Kevin Harper
DETAILS	BY G. M. Souza / J. Zhou	CHECKED Kevin Harper
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	
DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. 25-0064 POST MILE 19.61

EARTHQUAKE RETROFIT PROJECT SMITH FLAT ROAD UNDERCROSSING BENT RETROFIT DETAILS No. 4	
UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771	CONTRACT NO.: 03-0F3004

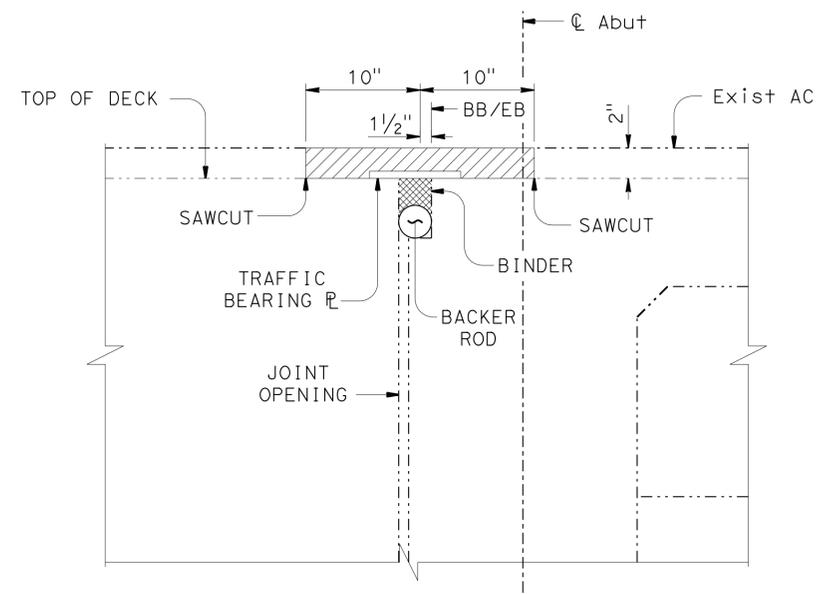
DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 02-16-12 03-02-12 06/26/12	SHEET 5 OF 6
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	17.8, 19.6	37	37

REGISTERED CIVIL ENGINEER DATE 10/24/12
 REGISTERED PROFESSIONAL ENGINEER
 Robert G. Jones
 No. 65676
 Exp. 9/30/13
 CIVIL
 STATE OF CALIFORNIA

3-11-13
 PLANS APPROVAL DATE

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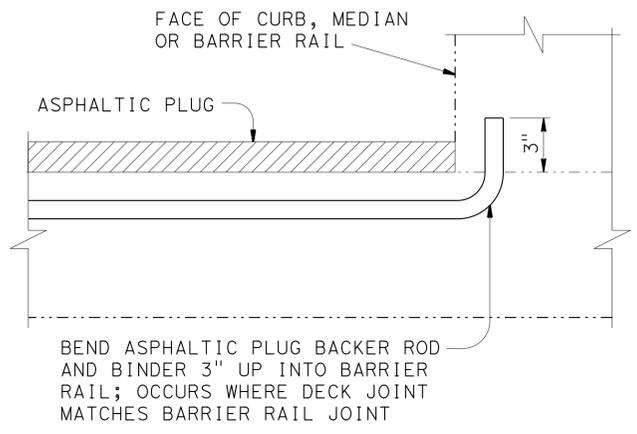
ASPHALTIC PLUG JOINT SEAL DETAIL
NO SCALE

LEGEND:

Sawcut and remove existing AC within limits shown. Abrasive blast clean exposed concrete deck / abutment. Place new asphaltic plug, minimum 2" thickness.

Indicates existing structure

LOCATION	MINIMUM "MR" (in)	Approx LENGTH (ft)	EXISTING WATERSTOP	Approx DEPTH OF CLEANING Exp Jt (ft)
Abutment 1	1	99.1	NO	1.0
Abutment 4	1	90.6	NO	1.0



BEND ASPHALTIC PLUG BACKER ROD AND BINDER 3" UP INTO BARRIER RAIL; OCCURS WHERE DECK JOINT MATCHES BARRIER RAIL JOINT

ASPHALTIC PLUG DETAIL - BARRIER RAIL
NO SCALE

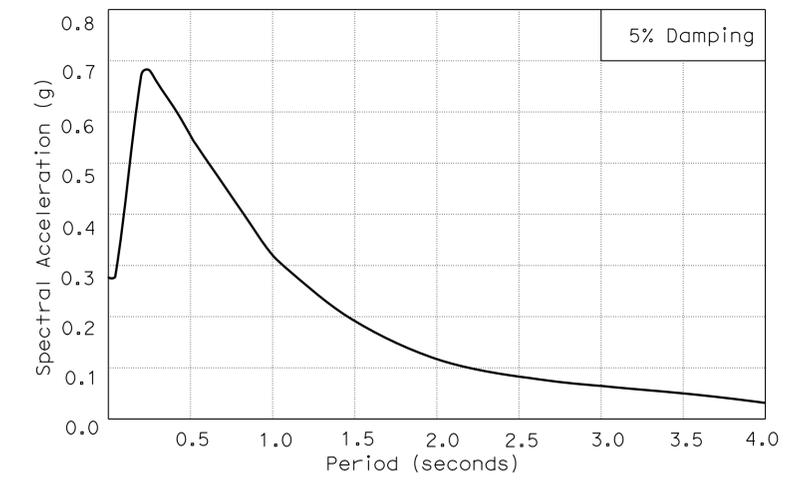
GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, Fourth Edition with California Amendments

SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC), Version 1.6, November 2010

SEISMIC LOADING:
Acceleration Response Curve Per Caltrans 2009 Seismic Design Procedure (SDP)

SOIL PROFILE:
Vs₃₀ = 1650 ft/sec
Moment Magnitude: M_{max} = 6.5
Peak Ground Acceleration: 0.22g



REINFORCED CONCRETE:
NEW **EXISTING**
 f'c = 3.6 ksi f'c = 5.0 ksi
 fy = 60 ksi fy = 40 ksi

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		FILE => 25-0064-u-miscd+01.dgn		UNIT: 3576 PROJECT NUMBER & PHASE: 03000000771		CONTRACT NO.: 03-0F3004		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET OF	
DESIGN	BY Daniel Sessions	CHECKED Vadim Shostak	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1		BRIDGE NO. 25-0064 POST MILE 19.61		EARTHQUAKE RETROFIT PROJECT SMITH FLAT ROAD UNDERCROSSING ASPHALTIC PLUG JOINT SEAL DETAILS				10-08-12		10-10-12		6 6	
DETAILS	BY Bob Huddleston	CHECKED Vadim Shostak																
QUANTITIES	BY Eric Watson	CHECKED Greg Thornton																