

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.4/4.0	901	1288

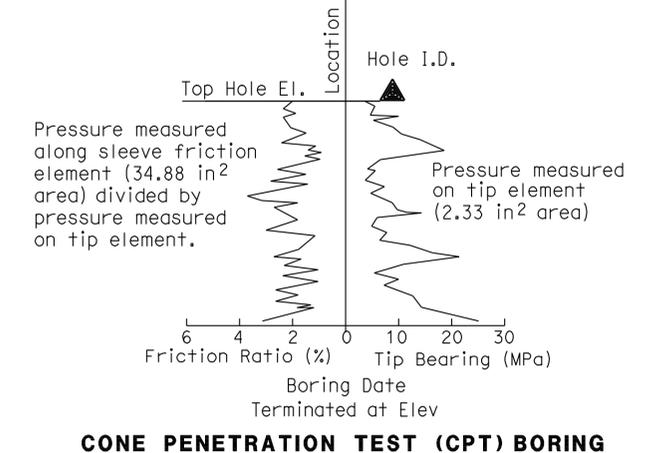
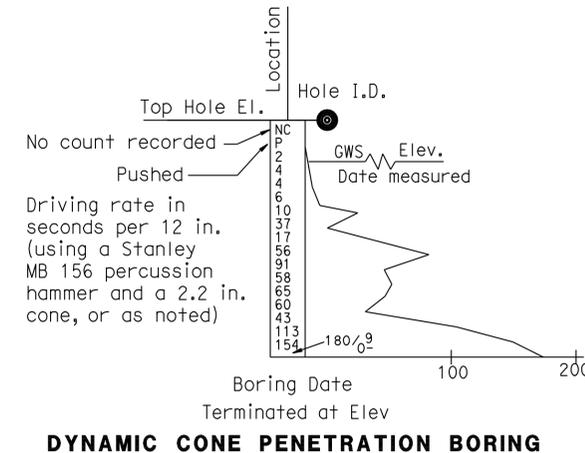
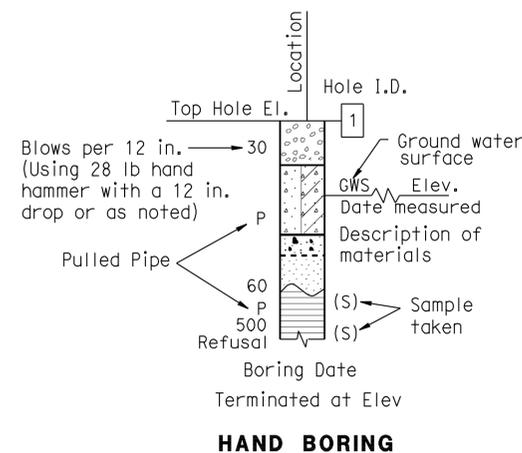
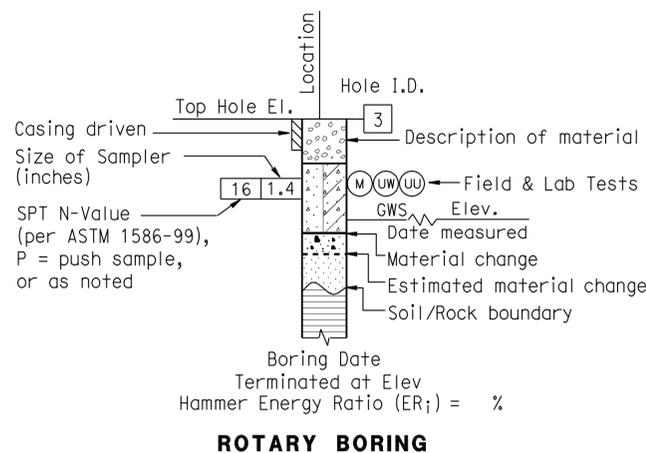
06/2011 DATE
 GEOTECHNICAL PROFESSIONAL
 3-26-12 PLANS APPROVAL DATE
 MICHAEL G. SMITH
 No. 2229
 Exp. 3-31-2012
 REGISTERED PROFESSIONAL ENGINEER
 GEOTECHNICAL
 STATE OF CALIFORNIA
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CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

Note: Size in inches.

CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



06/2011
DATE

3-26-12
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GROUP SYMBOLS AND NAMES			
Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
	GW Well-graded GRAVEL		CL Lean CLAY
	GP Poorly-graded GRAVEL		CL Lean CLAY with SAND
	GW-GM Well-graded GRAVEL with SAND		CL-ML SANDY lean CLAY
	GW-GC Well-graded GRAVEL with CLAY (or SILTY CLAY)		CL-ML SANDY lean CLAY with GRAVEL
	GP-GM Poorly-graded GRAVEL with SILT		CL-ML GRAVELLY lean CLAY
	GP-GC Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		CL-ML GRAVELLY lean CLAY with SAND
	GP-GM Poorly-graded GRAVEL with SILT and SAND		ML SILT
	GP-GC Poorly-graded GRAVEL with SILT and SAND		ML SILT with SAND
	GM SILTY GRAVEL		ML SILT with GRAVEL
	GC CLAYEY GRAVEL		ML SANDY SILT
	GC CLAYEY GRAVEL with SAND		ML SANDY SILT with GRAVEL
	GC-GM SILTY, CLAYEY GRAVEL		ML GRAVELLY SILT
	GC-GM SILTY, CLAYEY GRAVEL with SAND		ML GRAVELLY SILT with SAND
	SW Well-graded SAND		
SP Poorly-graded SAND	OL ORGANIC lean CLAY with SAND		
	SW-SM Well-graded SAND with SILT		OL SANDY ORGANIC lean CLAY
	SW-SC Well-graded SAND with CLAY (or SILTY CLAY)		OL GRAVELLY ORGANIC lean CLAY
	SW-SC Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		OL GRAVELLY ORGANIC lean CLAY with SAND
	SP-SM Poorly-graded SAND with SILT		
	SP-SM Poorly-graded SAND with SILT and GRAVEL		
	SP-SC Poorly-graded SAND with CLAY (or SILTY CLAY)		
	SP-SC Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)		
	SM SILTY SAND		
	SM SILTY SAND with GRAVEL		
	SC CLAYEY SAND		
	SC CLAYEY SAND with GRAVEL		
	SC-SM SILTY, CLAYEY SAND		
	SC-SM SILTY, CLAYEY SAND with GRAVEL		
	PT PEAT		

FIELD AND LABORATORY TESTING	
(C)	Consolidation (ASTM D 2435)
(CL)	Collapse Potential (ASTM D 5333)
(CP)	Compaction Curve (CTM 216)
(CR)	Corrosivity Testing (CTM 643, CTM 422, CTM 417)
(CU)	Consolidated Undrained Triaxial (ASTM D 4767)
(DS)	Direct Shear (ASTM D 3080)
(EI)	Expansion Index (ASTM D 4829)
(M)	Moisture Content (ASTM D 2216)
(OC)	Organic Content-% (ASTM D 2974)
(P)	Permeability (CTM 220)
(PA)	Particle Size Analysis (ASTM D 422)
(PI)	Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
(PL)	Point Load Index (ASTM D 5731)
(PM)	Pressure Meter
(R)	R-Value (CTM 301)
(SE)	Sand Equivalent (CTM 217)
(SG)	Specific Gravity (AASHTO T 100)
(SL)	Shrinkage Limit (ASTM D 427)
(SW)	Swell Potential (ASTM D 4546)
(UC)	Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
(UU)	Unconsolidated Undrained Triaxial (ASTM D 2850)
(UW)	Unit Weight (ASTM D 4767)

APPARENT DENSITY OF COHESIONLESS SOILS	
Description	SPT N ₆₀ (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE	
Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS	
Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE		
Description	Size (in.)	
Boulder	Greater than 12	
Cobble	3 - 12	
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay	Less than 1/300	

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SOUTHBOUND ROSECRANS AVENUE OFF-RAMP	
FUNCTIONAL SUPERVISOR		DRAWN BY: P.QUACH		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		53-3042K		LOG OF TEST BORINGS SHEET 5 OF 5	
NAME: M. SMITH		CHECKED BY: D.ORRIS		FIELD INVESTIGATION BY:		DESIGN BRANCH 15		POST MILE		3.66	
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		P. CHAU/L. ROEBUCK/D. ORRIS		CU 07		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
						EA 215931				06/27/11 12-29-11 2-2-12	
										SHEET 28 OF 28	

DATE PLOTTED => 28-MAR-2012 USERNAME => s124496

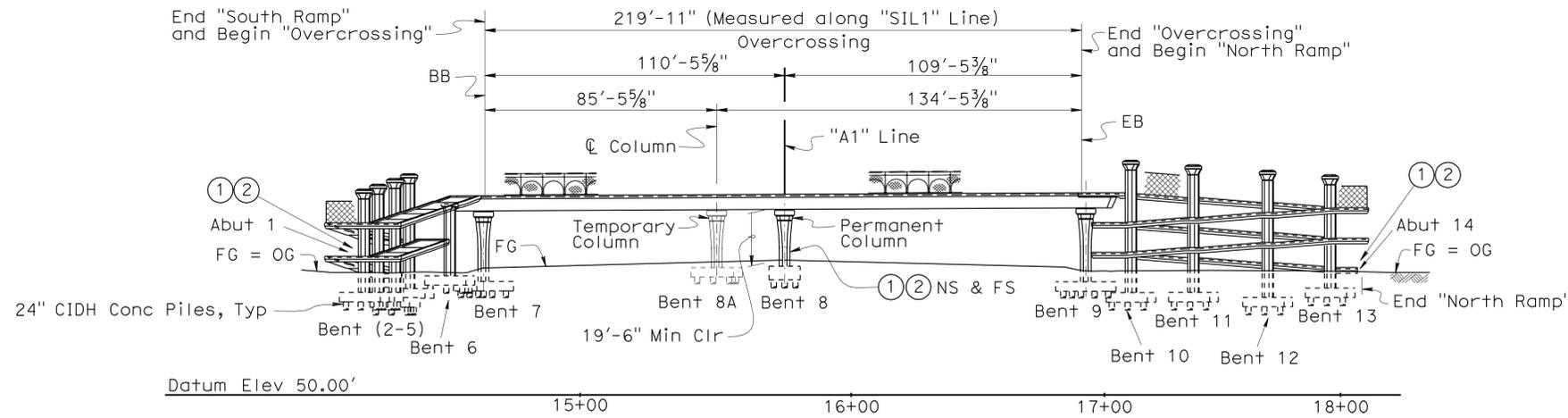
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	903	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE

3-26-12
 PLANS APPROVAL DATE

Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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SPAN TABLE

Span Designation	Length (ft)*	Span Designation	Length (ft)*
1. Abut 1 to Bent 4	29.50	9. Bent 7 to Bent 8A	86.00
2. Bent 2 to Bent 3	24.50	10. Bent 8A to Bent 9	136.00
3. Bent 3 to Bent 4	29.00	11. Bent 9 to Bent 10	35.52
4. Bent 4 to Bent 5	24.50	12. Bent 10 to Bent 11	23.50
5. Bent 5 to Bent 6	33.50	13. Bent 11 to Bent 12	28.00
6. Bent 6 to Bent 7	35.59	14. Bent 12 to Bent 13	23.50
7. Bent 7 to Bent 8	111.00	15. Bent 13 to Abut 14	28.50
8. Bent 8 to Bent 9	111.00		

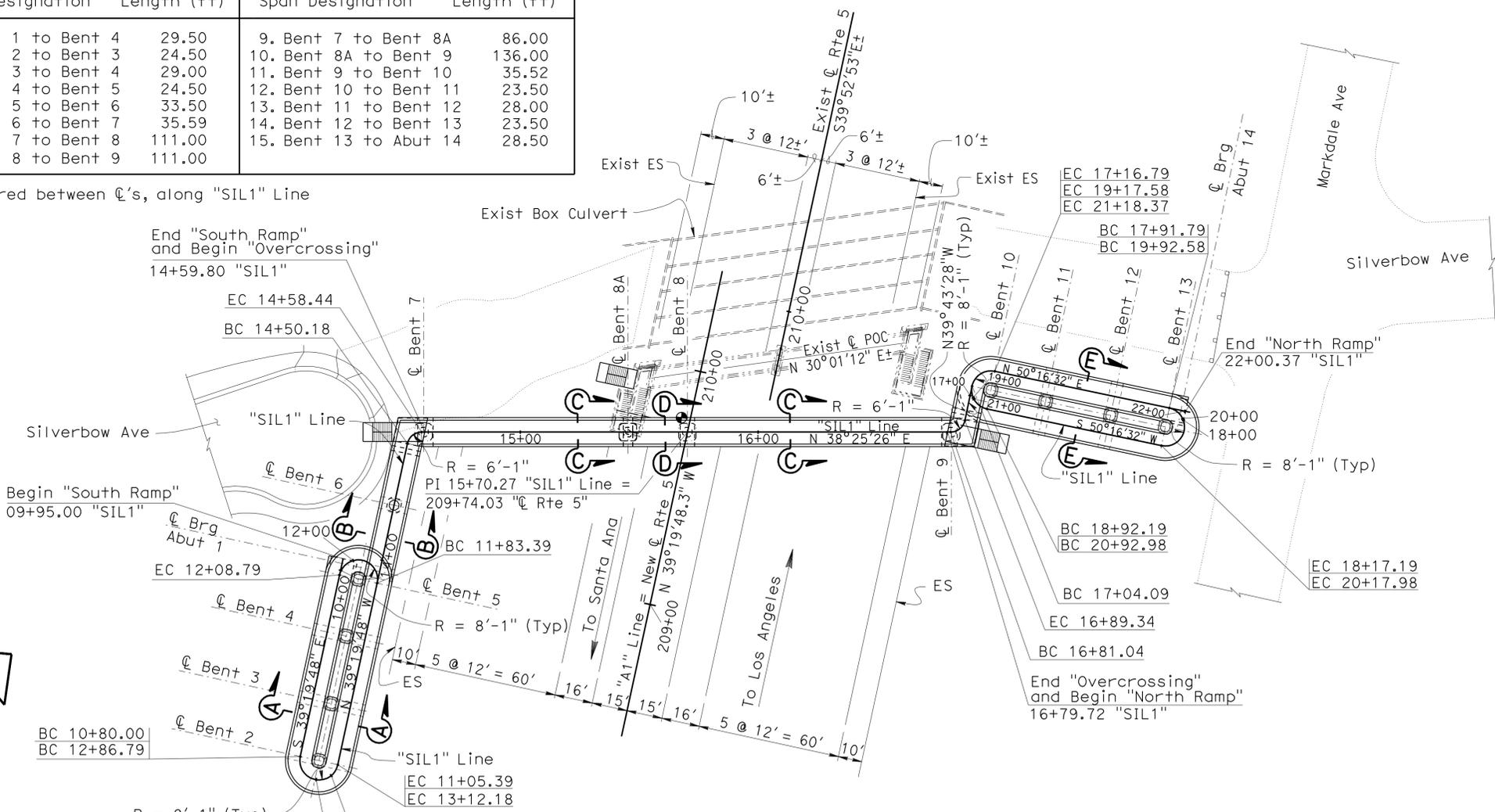
*Measured between C's, along "SIL1" Line

ELEVATION

1" = 30'

QUANTITIES

TEMPORARY PEDESTRIAN ACCESS STRUCTURE	LUMP SUM
BRIDGE REMOVAL, LOCATION D	LUMP SUM
BRIDGE REMOVAL (PORTION), LOCATION A	LUMP SUM
STRUCTURE EXCAVATION (BRIDGE)	1,180 CY
STRUCTURE EXCAVATION (TYPE Y-2)	490 CY
(AERIALY DEPOSITED LEAD)	
STRUCTURE BACKFILL (BRIDGE)	1,000 CY
LEAN CONCRETE BACKFILL	65 CY
3" SUPPLY LINE (BRIDGE)	290 LF
24" CAST-IN-DRILLED-HOLE CONCRETE PILING	3,640 LF
PRESTRESSING CAST-IN-PLACE CONCRETE	LUMP SUM
TEMPORARY PRESTRESSING	LUMP SUM
CAST-IN-PLACE CONCRETE	
STRUCTURAL CONCRETE, BRIDGE FOOTING	490 CY
STRUCTURAL CONCRETE, BRIDGE	1,320 CY
ARCHITECTURAL TREATMENT (BRIDGE)	1,070 SQFT
REPAIR SOFFIT SURFACE AREA	47 SQFT
PTFE BEARING	8 EA
JOINT SEAL (MR 1/2")	219 LF
JOINT SEAL (MR 1")	25 LF
BAR REINFORCING STEEL (BRIDGE)	450,700 LB
HEADED BAR REINFORCEMENT	1,093 EA
ISOLATION CASING	14,700 LB
MISCELLANEOUS METAL (BRIDGE)	8,450 LB
CHAIN LINK RAILING (TYPE 3L MODIFIED 1)	440 LF
CHAIN LINK RAILING (TYPE 3L MODIFIED 2)	1,970 LF



PLAN

1" = 30'

Notes:

- ① Paint "Br. No. 53-3043"
- ② Paint "Silverbow Ave Ped OC"
- ③ For Stage Constuction see "STAGE CONSTRUCTION" sheets.

Legend:

- Indicates Location of Min Vert Clr
- Indicates Exist Pedestrian OC Structure to be removed
- ▨ Indicates Temporary Pedestrian Access Structure at various stages.

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

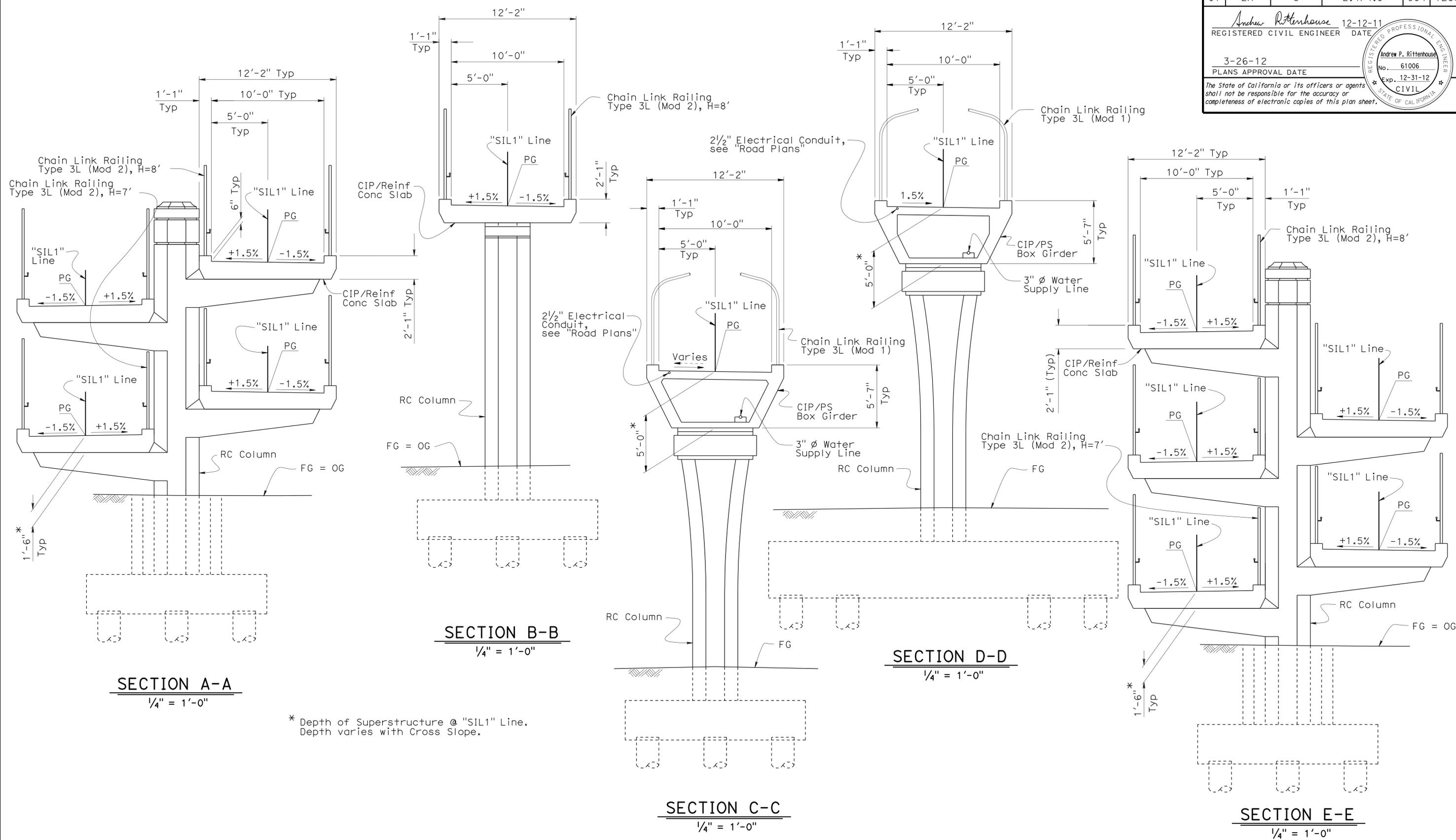
Traci Menard DESIGN ENGINEER	DESIGN	BY H. Setberg	CHECKED A. Logus	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: PEDESTRIAN LOAD 0.090 ksf	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC GENERAL PLAN NO. 1								
	DETAILS	BY S. Cholda	CHECKED A. Logus	LAYOUT	BY H. Setberg			CHECKED L. Bahia	POST MILE		3.97							
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat	SPECIFICATIONS	BY T. Nedwick			PLANS AND SPECS COMPARED T. Nedwick	CU 07 EA 215931		REVISION DATES	<table border="1"> <tr> <td>01-15-09</td> <td>09-07-11</td> <td>09-26-11</td> <td>09-01-10</td> <td>11-08-11</td> <td>12-07-11</td> <td>01-05-12</td> <td>02-15-12</td> <td>08-07-11</td> <td>08-15-11</td> </tr> </table>	01-15-09	09-07-11	09-26-11	09-01-10	11-08-11	12-07-11
01-15-09	09-07-11	09-26-11	09-01-10	11-08-11	12-07-11	01-05-12	02-15-12	08-07-11	08-15-11									

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

FILE => 53-3043-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	904	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
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* Depth of Superstructure @ "SIL1" Line. Depth varies with Cross Slope.

Traci Menard
DESIGN ENGINEER

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: PEDESTRIAN LOAD 0.090 ksf	
LAYOUT	BY H. Setberg	CHECKED L. Bahia
SPECIFICATIONS	BY T. Nedwick	PLANS AND SPECS COMPARED T. Nedwick

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

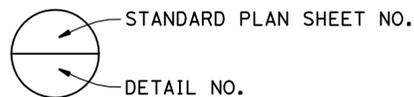
SILVERBOW AVENUE PEDESTRIAN OC
GENERAL PLAN NO .2

INDEX TO PLANS

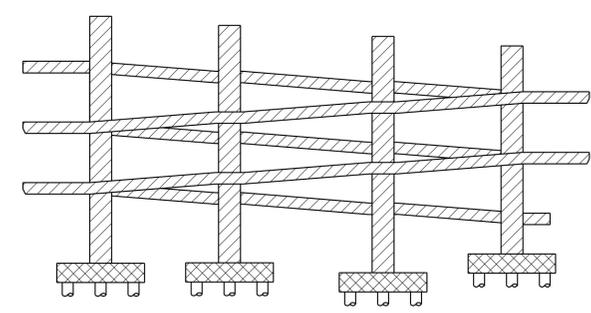
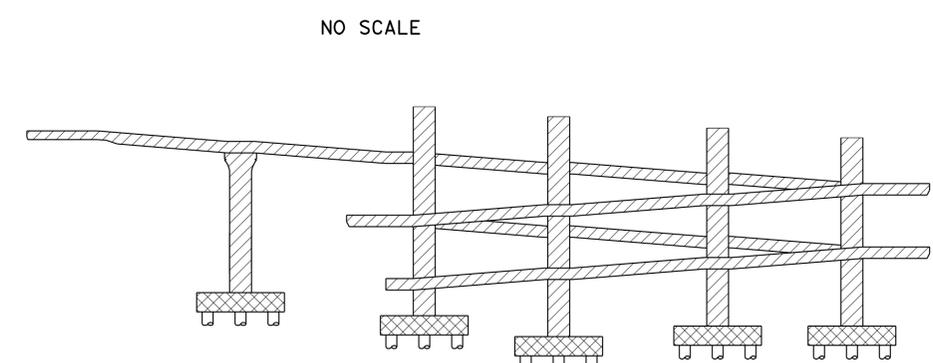
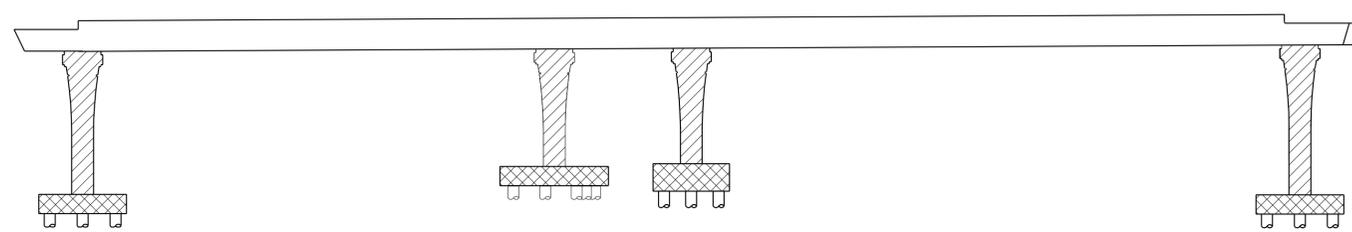
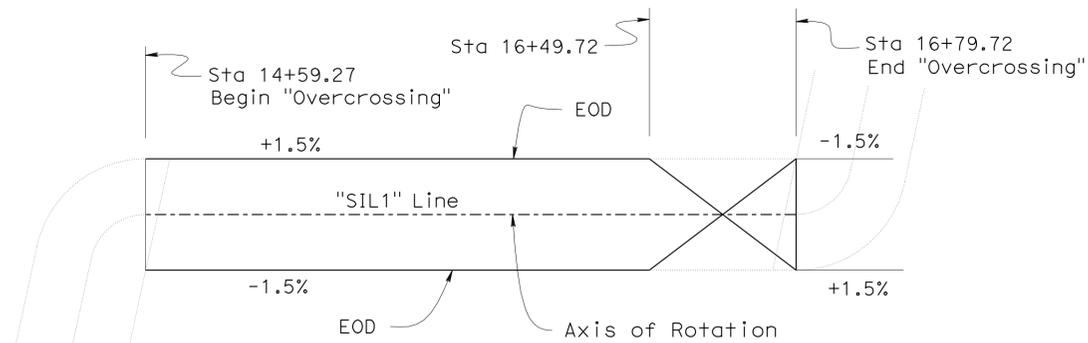
SHEET NO.	TITLE	SHEET NO.	TITLE
1	GENERAL PLAN NO. 1	51	RAMP-COLUMN DETAILS
2	GENERAL PLAN NO. 2	52	RAMP-COLUMN GEOMETRY NO. 1
3	INDEX TO PLANS	53	RAMP-COLUMN GEOMETRY NO. 2
4	GENERAL NOTES	54	RAMP-BENT CANTILEVER LAYOUT NO. 1
5	STAGE CONSTRUCTION NO. 1	55	RAMP-BENT CANTILEVER LAYOUT NO. 2
6	STAGE CONSTRUCTION NO. 2	56	RAMP-BENT CANTILEVER LAYOUT NO. 3
7	STAGE CONSTRUCTION NO. 3	57	RAMP-BENT CANTILEVER DETAILS NO. 1
8	STAGE CONSTRUCTION NO. 4	58	RAMP-BENT CANTILEVER DETAILS NO. 2
9	DECK CONTOURS NO. 1	59	RAMP-BENT CANTILEVER DETAILS NO. 3
10	DECK CONTOURS NO. 2	60	RAMP-BENT CANTILEVER DETAILS NO. 4
11	DECK CONTOURS NO. 3	61	RAMP-BENT CANTILEVER DETAILS NO. 5
12	DECK CONTOURS NO. 4	62	RAMP-BENT CANTILEVER DETAILS NO. 6
13	DECK CONTOURS NO. 5	63	RAMP-BENT CANTILEVER DETAILS NO. 7
14	DECK CONTOURS NO. 6	64	RAMP-BENT CANTILEVER DETAILS NO. 8
15	DECK CONTOURS NO. 7	65	RAMP-BENT CANTILEVER DETAILS NO. 9
16	EXCAVATION AND BACKFILL	66	RAMP-BENT CANTILEVER DETAILS NO. 10
17	FOUNDATION PLAN	67	RAMP-BENT CANTILEVER DETAILS NO. 11
18	OVERCROSSING-LAYOUT	68	RAMP-BENT CANTILEVER DETAILS NO. 12
19	OVERCROSSING-DEMOLITION DETAILS	69	RAMP-BENT CANTILEVER DETAILS NO. 13
20	OVERCROSSING-FOOTING DETAILS	70	RAMP-BENT CANTILEVER DETAILS NO. 14
21	OVERCROSSING-BENT ELEVATIONS	71	RAMP-BENT CANTILEVER DETAILS NO. 15
22	OVERCROSSING-COLUMN DETAILS NO. 1	72	RAMP-BENT CANTILEVER DETAILS NO. 16
23	OVERCROSSING-COLUMN DETAILS NO. 2	73	RAMP-TYPICAL SECTION NO. 1
24	OVERCROSSING-COLUMN DETAILS NO. 3	74	RAMP-TYPICAL SECTION NO. 2
25	OVERCROSSING-COLUMN GEOMETRY	75	RAMP-SLAB DETAILS
26	OVERCROSSING-COLUMN REMOVAL DETAILS	76	SOUTH RAMP-SLAB DETAILS NO. 1
27	OVERCROSSING-BENT CAP DETAILS NO. 1	77	SOUTH RAMP-SLAB DETAILS NO. 2
28	OVERCROSSING-BENT CAP DETAILS NO. 2	78	SOUTH RAMP-SLAB DETAILS NO. 3
29	OVERCROSSING-BENT CAP DETAILS NO. 3	79	NORTH RAMP-SLAB DETAILS NO. 1
30	OVERCROSSING-BENT CAP DETAILS NO. 4	80	NORTH RAMP-SLAB DETAILS NO. 2
31	OVERCROSSING-BENT CAP DETAILS NO. 5	81	NORTH RAMP-SLAB DETAILS NO. 3
32	OVERCROSSING-TYPICAL SECTION NO. 1	82	NORTH RAMP-SLAB DETAILS NO. 4
33	OVERCROSSING-TYPICAL SECTION NO. 2	83	NORTH RAMP-SLAB DETAILS NO. 5
34	OVERCROSSING-GIRDER LAYOUT NO. 1	84	RAMP-ISOLATION CASING DETAILS NO. 1
35	OVERCROSSING-GIRDER LAYOUT NO. 2	85	RAMP-ISOLATION CASING DETAILS NO. 2
36	OVERCROSSING-GIRDER REINFORCEMENT	86	MISCELLANEOUS DETAILS
37	OVERCROSSING-ARCHITECTURAL TREATMENT	87	PIN ASSEMBLY DETAILS NO. 1
38	OVERCROSSING-MISCELLANEOUS DETAILS	88	PIN ASSEMBLY DETAILS NO. 2
39	SOUTH RAMP-LAYOUT NO. 1	89	PIN ASSEMBLY DETAILS NO. 3
40	SOUTH RAMP-LAYOUT NO. 2	90	PTFE BEARING DETAILS
41	SOUTH RAMP-LAYOUT NO. 3	91	CHAIN LINK RAILING TYPE 3L (MOD 1)
42	SOUTH RAMP-LAYOUT NO. 4	92	CHAIN LINK RAILING TYPE 3L (MOD 2)
43	NORTH RAMP-LAYOUT NO. 1	93	LOG OF TEST BORINGS NO. 1
44	NORTH RAMP-LAYOUT NO. 2	94	LOG OF TEST BORINGS NO. 2
45	NORTH RAMP-LAYOUT NO. 3	95	LOG OF TEST BORINGS NO. 3
46	NORTH RAMP-LAYOUT NO. 4	96	LOG OF TEST BORINGS NO. 4
47	RAMP-ABUTMENT DETAILS NO. 1	97	LOG OF TEST BORINGS NO. 5
48	RAMP-ABUTMENT DETAILS NO. 2	98	LOG OF TEST BORINGS NO. 6
49	RAMP-FOOTING DETAILS	99	LOG OF TEST BORINGS NO. 7
50	RAMP-BENT ELEVATIONS		

STANDARD PLANS DATED MAY 2006

A10A	ACRONYMS AND ABBREVIATIONS (A - L)
A10B	ACRONYMS AND ABBREVIATIONS (M - Z)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B2-3	16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING BOX GIRDER
B7-11	UTILITY DETAILS
B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
B14-3	COMMUNICATION AND SPRINKLER CONTROL CONDUITS (CONDUITS LESS THAN 4")
B14-4	WATER SUPPLY LINE (BRIDGE), (PIPE SIZES LESS THAN 4")
B14-5	WATER SUPPLY LINE (DETAILS), (PIPE SIZES LESS THAN 4")
ES-9B	ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATION)



SHEET NO.	TITLE
100	LOG OF TEST BORINGS NO. 8
101	LOG OF TEST BORINGS NO. 9



CONCRETE STRENGTH AND TYPE LIMITS

	Structural Concrete, Bridge Footing, 4 ksi @ 28 days
	Structural Concrete, Bridge, 4 ksi @ 28 days
	Structural Concrete, Bridge, 6 ksi @ 28 days

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07	LA	5	2.4/4.0	905	1288

REGISTERED CIVIL ENGINEER
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

12-12-11
 REGISTERED CIVIL ENGINEER DATE

3-26-12
 PLANS APPROVAL DATE

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DESIGN	BY	H. Setberg	CHECKED	L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC INDEX TO PLANS	
	DETAILS	BY	S. Cholda	CHECKED			L. Bahia	POST MILE		3.97
	QUANTITIES	BY	T. Trefz	CHECKED			H. Mauroschat			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						CU 07 EA 215931	REVISION DATES			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
FILE => 53-3043-a-1+p.dgn						02-12-11 03-16-11 05-23-11 07-13-11 08-16-11 09-07-11				
						SHEET 3 OF 101				

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:02

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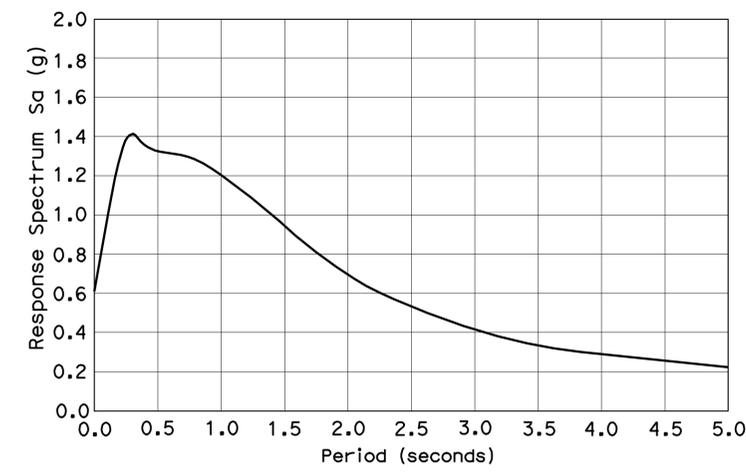
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GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4th Edition and California Amendments, dated December 2008
SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) Version 1.5 September 2009
DEAD LOAD: Does not include any allowance for future wearing surface
LIVE LOADING: Pedestrian Load 90 psf
SEISMIC LOADING: Peak Ground Acceleration 0.62g Site Specific ARS curve
REINFORCED CONCRETE:
 $f_y = 60$ ksi
 $f'_c = 4$ ksi
 Cantilever Ends on "Overcrossing"
 $f_y = 60$ ksi
 $f'_c = 6$ ksi
 Transverse Deck Slab
 $f_y = 60$ ksi
 $f'_c = 4$ ksi
PRESTRESSED CONCRETE: See "PRESTRESSING NOTES" on "OVERCROSSING - GIRDER LAYOUT NO. 2" sheet.
STRUCTURAL STEEL: FABRICATION: Welding shall comply with AASHTO/AWS D 1.5, 2008
 STRUCTURAL SHAPES : ASTM A500 Grade B
 PLATES: ASTM A36
 STUD CONNECTORS: ASTM A108



SITE SPECIFIC ACCELERATION RESPONSE SPECTRA

SPREAD FOOTING DATA TABLE		
Working Stress Design (WSD)		
LOCATION	Permissible Gross Contact Stress (Settlement) (ksf)	Allowable Gross Bearing Capacity (ksf)
Abut 1	2.6	8.5
Abut 14	2.6	8.5

PILE DATA TABLE						PILE DATA TABLE					
LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)	LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)
		COMPRESSION (kip)	TENSION (kip)					COMPRESSION (kip)	TENSION (kip)		
Bent 2	24" CIDH Conc Pile	350	200	(a) 55.8	55.8	Bent 8A	24" CIDH Conc Pile	350	200	(a) 60.8	59.3
				(b) 60.8							
				(c) 64.2							
				(d) 61.5							
Bent 3	24" CIDH Conc Pile	350	200	(a) 55.8	55.8	Bent 8	24" CIDH Conc Pile	300	150	(a) 63.8	62.3
				(b) 60.8							
				(c) 63.2							
				(d) 61.5							
Bent 4	24" CIDH Conc Pile	350	200	(a) 54.8	54.8	Bent 9	24" CIDH Conc Pile	350	200	(a) 56.6	56.6
				(b) 58.8							
				(c) 62.3							
				(d) 59.6							
Bent 5	24" CIDH Conc Pile	350	200	(a) 56.9	56.9	Bent 10	24" CIDH Conc Pile	400	200	(a) 53.0	53.0
				(b) 61.6							
				(c) 68.1							
				(d) 63.4							
Bent 6	24" CIDH Conc Pile	250	200	(a) 63.3	62.3	Bent 11	24" CIDH Conc Pile	400	200	(a) 53.0	53.0
				(b) 62.3							
				(c) N/A							
				(d) 67.6							
Bent 7	24" CIDH Conc Pile	350	200	(a) 56.7	56.7	Bent 12	24" CIDH Conc Pile	400	200	(a) 52.0	52.0
				(b) 61.2							
				(c) 64.2							
				(d) 61.5							
Bent 13	24" CIDH Conc Pile	350	200	(a) 56.5	56.5	Bent 13	24" CIDH Conc Pile	350	200	(a) 56.5	56.5
				(b) 61.0							
				(c) 59.8							
				(d) 60.6							

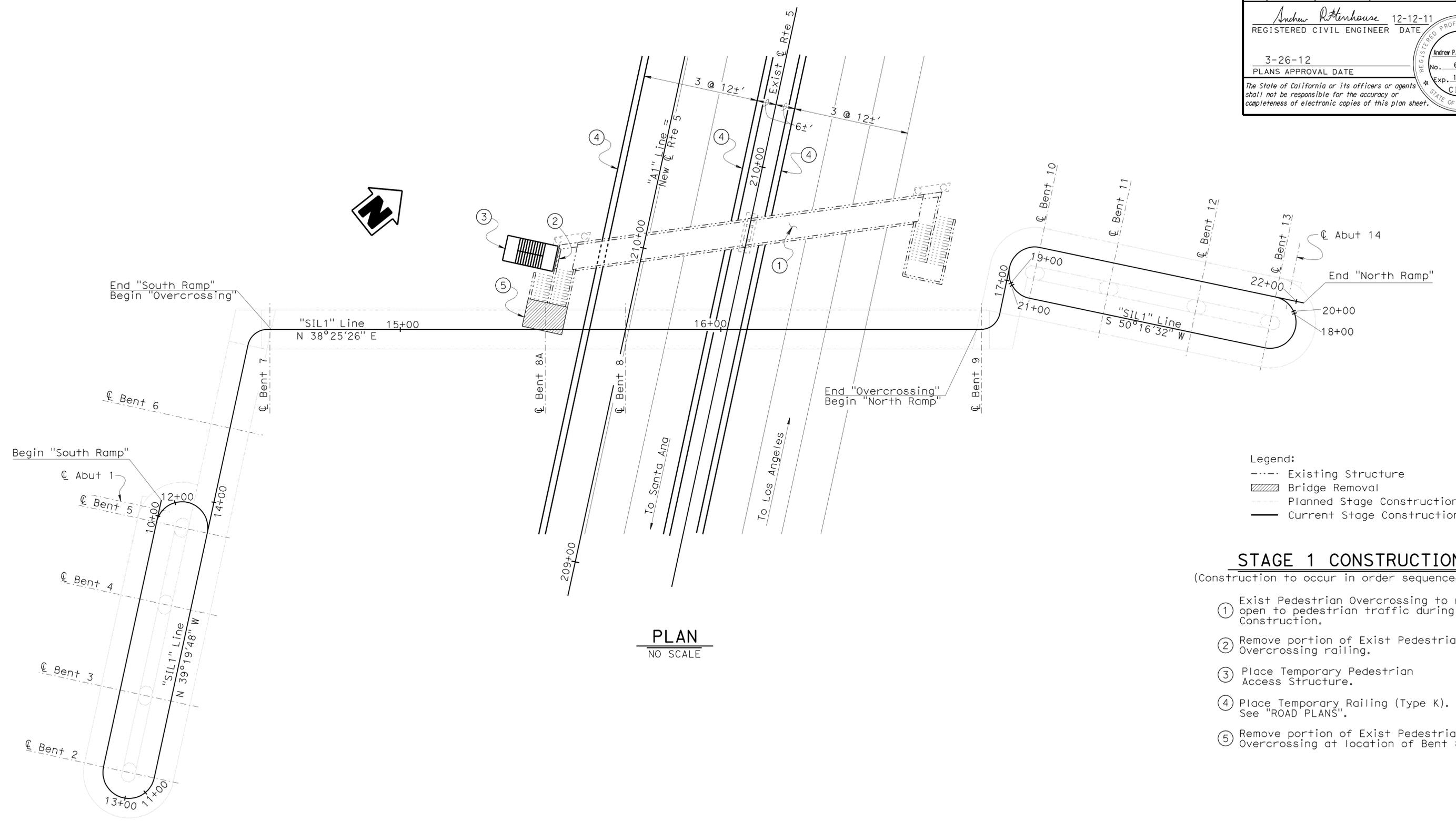
- Notes:
- Design tip elevations are controlled by: (a) Compression, (b) Tension, (c) Settlement, (d) Lateral Load, respectively.
 - There is no applicable design tip elevation for settlement at Bent 6.

DESIGN BY: H. Setberg CHECKED: L. Bahia DETAILS BY: S. Cholda CHECKED: L. Bahia QUANTITIES BY: T. Trefz CHECKED: H. Mauroschatd	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO. 53-3043 POST MILE 3.97 SILVERBOW AVENUE PEDESTRIAN OC GENERAL NOTES
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 05-23-11, 07-12-11, 01-13-11, 01-27-11, 08-16-11, 08-23-11, 09-07-11, 10-16-11, 02-28-12 SHEET 4 OF 101

FILE => 53-3043-b-pd.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	907	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PLAN
 NO SCALE

- Legend:
- Existing Structure
 - ▨ Bridge Removal
 - - - - Planned Stage Construction
 - Current Stage Construction

STAGE 1 CONSTRUCTION
 (Construction to occur in order sequenced below)

- ① Exist Pedestrian Overcrossing to remain open to pedestrian traffic during Stage 1 Construction.
- ② Remove portion of Exist Pedestrian Overcrossing railing.
- ③ Place Temporary Pedestrian Access Structure.
- ④ Place Temporary Railing (Type K). See "ROAD PLANS".
- ⑤ Remove portion of Exist Pedestrian Overcrossing at location of Bent 8A.

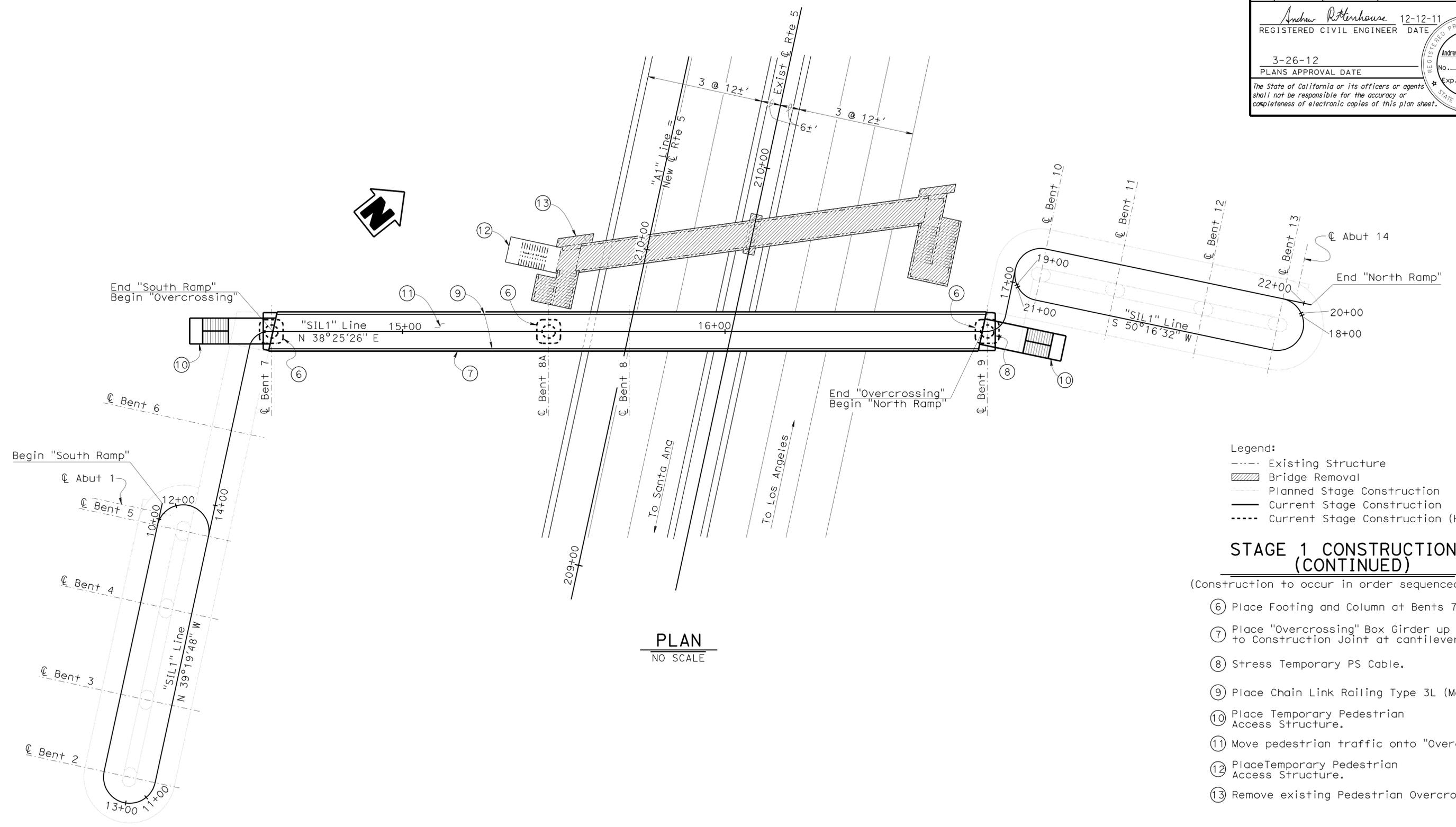
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC STAGE CONSTRUCTION NO. 1	
	DETAILS	BY T. Trefz	CHECKED L. Bahia			POST MILE	3.97		
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat						
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 05-09-11 06-20-11 07-13-11 08-27-11 02-15-12	SHEET 5 OF 101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	908	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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- Legend:
- Existing Structure
 - ▨ Bridge Removal
 - Planned Stage Construction
 - Current Stage Construction
 - Current Stage Construction (Hidden)

STAGE 1 CONSTRUCTION (CONTINUED)

(Construction to occur in order sequenced below)

- ⑥ Place Footing and Column at Bents 7, 8A and 9.
- ⑦ Place "Overcrossing" Box Girder up to Construction Joint at cantilever ends.
- ⑧ Stress Temporary PS Cable.
- ⑨ Place Chain Link Railing Type 3L (Mod 1).
- ⑩ Place Temporary Pedestrian Access Structure.
- ⑪ Move pedestrian traffic onto "Overcrossing".
- ⑫ Place Temporary Pedestrian Access Structure.
- ⑬ Remove existing Pedestrian Overcrossing.

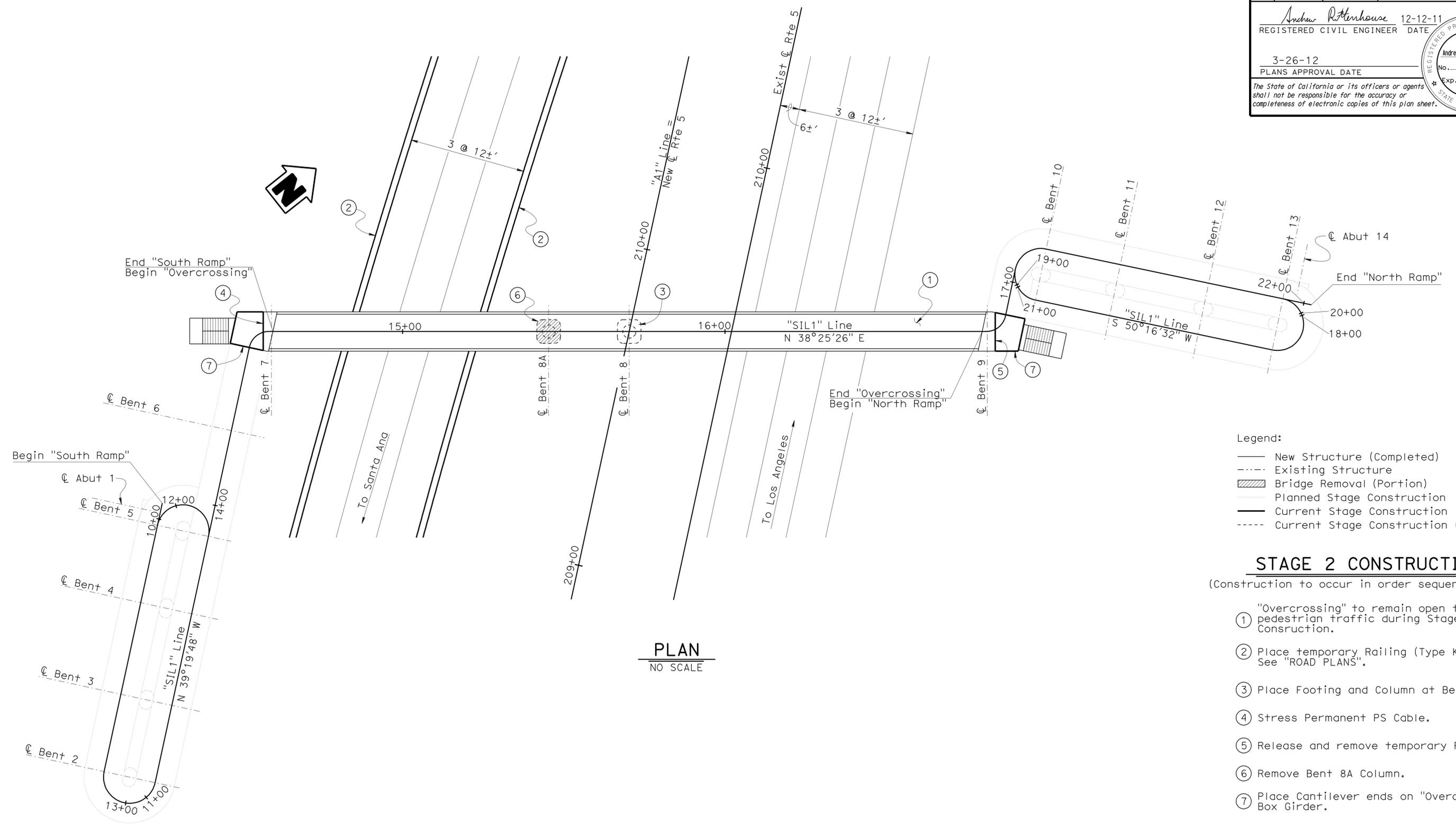
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC STAGE CONSTRUCTION NO. 2
	DETAILS	BY T. Trefz	CHECKED L. Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 6 OF 101		

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	909	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
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PLAN
NO SCALE

- Legend:
- New Structure (Completed)
 - - - Existing Structure
 - ▨ Bridge Removal (Portion)
 - Planned Stage Construction
 - Current Stage Construction
 - - - Current Stage Construction (Hidden)

STAGE 2 CONSTRUCTION
(Construction to occur in order sequenced below)

- ① "Overcrossing" to remain open to pedestrian traffic during Stage 2 Construction.
- ② Place temporary Railing (Type K). See "ROAD PLANS".
- ③ Place Footing and Column at Bent 8.
- ④ Stress Permanent PS Cable.
- ⑤ Release and remove temporary PS Cable.
- ⑥ Remove Bent 8A Column.
- ⑦ Place Cantilever ends on "Overcrossing" Box Girder.

DESIGN	BY H. Setberg	CHECKED L. Bahia
DETAILS	BY T. Trefz	CHECKED L. Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

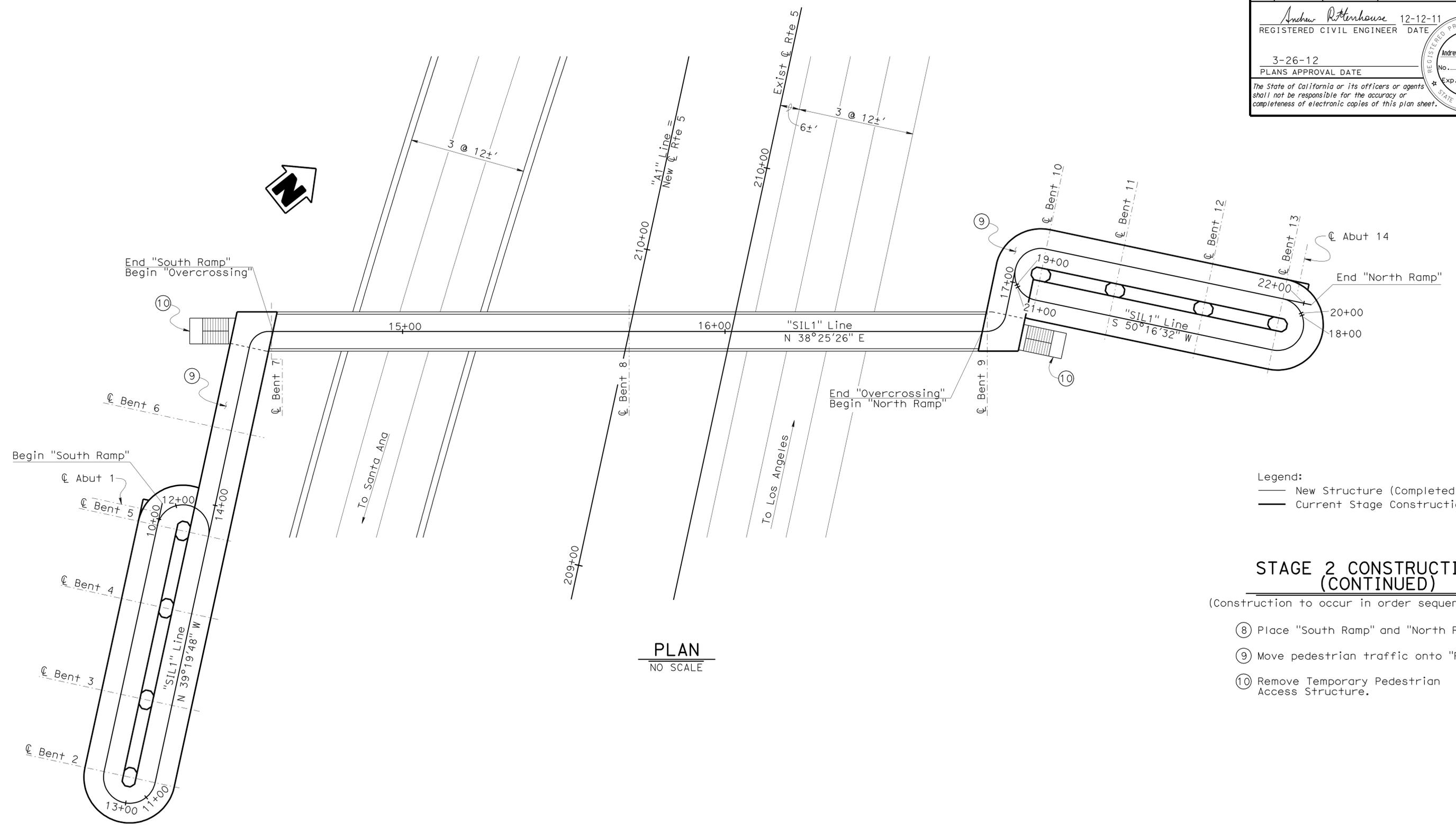
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
STAGE CONSTRUCTION NO. 3

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	910	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PLAN
NO SCALE

- Legend:
- New Structure (Completed)
 - Current Stage Construction

STAGE 2 CONSTRUCTION (CONTINUED)

(Construction to occur in order sequenced below)

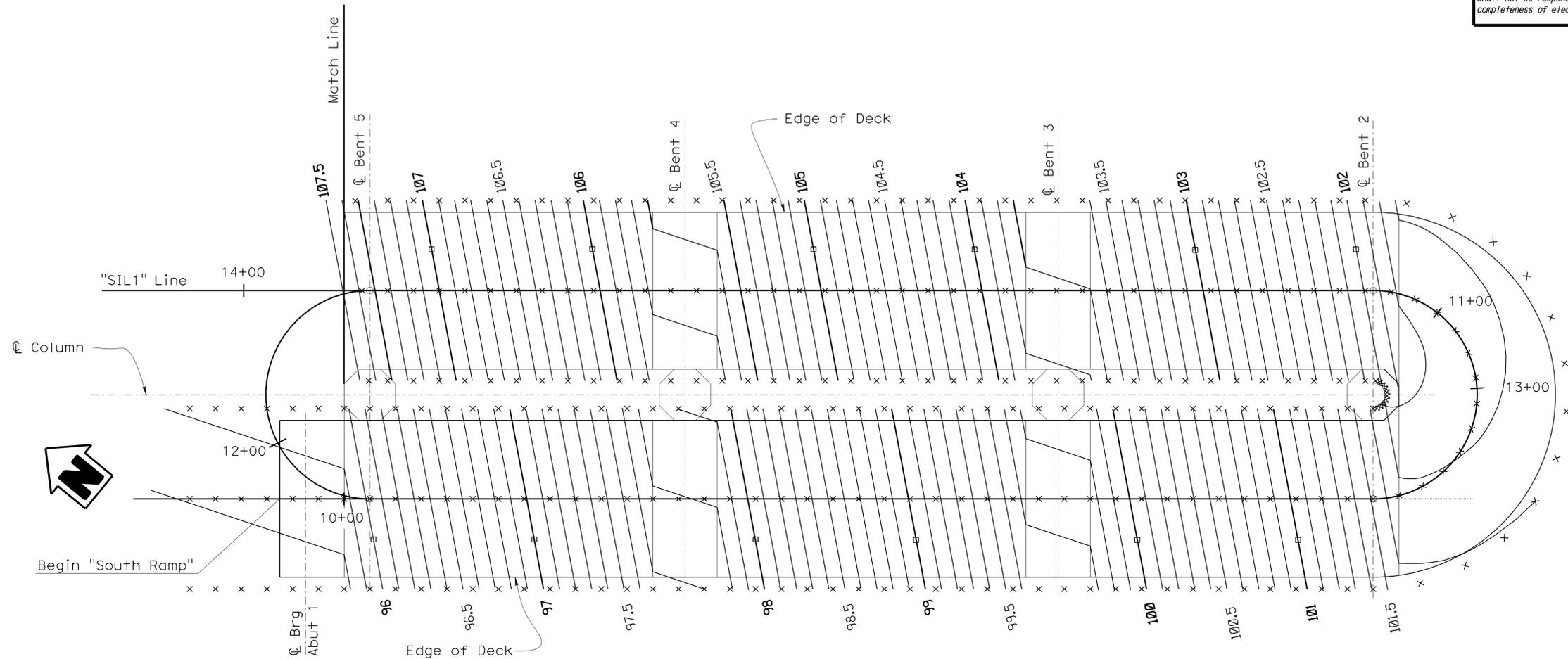
- ⑧ Place "South Ramp" and "North Ramp".
- ⑨ Move pedestrian traffic onto "Ramps"
- ⑩ Remove Temporary Pedestrian Access Structure.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC STAGE CONSTRUCTION NO. 4	
	DETAILS	BY T. Trefz	CHECKED L. Bahia			POST MILE	3.97		
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES		05-08-11 02-15-12
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 53-3043-c-stage_04.dgn	REVISION DATES			SHEET 8 OF 101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	911	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
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 CIVIL
 STATE OF CALIFORNIA
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DECK CONTOURS

1" = 5'-0"

SOUTH RAMP 1 OF 3

Notes:
 □ - Indicates whole foot contours.
 × - Indicates 2.0 foot intervals.
 Contour interval = 0.1 foot.
 Contours do not include camber.

DESIGN	BY Hogni Setberg	CHECKED Laith Bahia
DETAILS	BY Stan Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

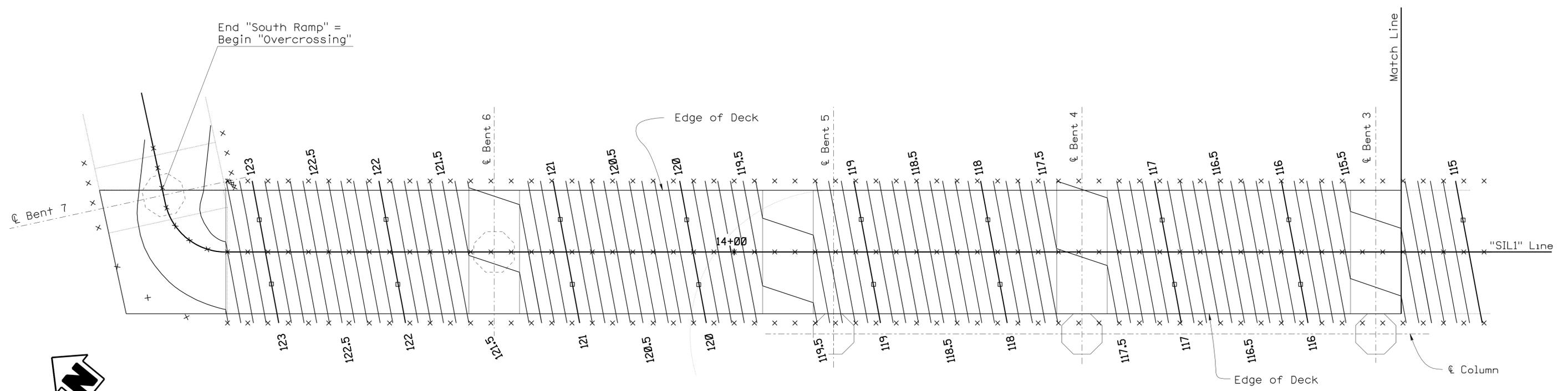
SILVERBOW AVENUE PEDESTRIAN OC
DECK CONTOURS NO. 1



REVISION DATES				SHEET	OF
01-04-11	09-09-11	01-03-12	02-28-12	9	101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	913	1288

Andrew P. Rittenhouse 12-12-11
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 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
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- Notes:
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 - × - Indicates 2.0 foot intervals.
Contour interval = 0.1 foot.
Contours do not include camber.

DECK CONTOURS
 1" = 5'-0"
SOUTH RAMP 3 OF 3

DESIGN	BY Hogni Setberg	CHECKED Laith Bahia
DETAILS	BY Stan Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

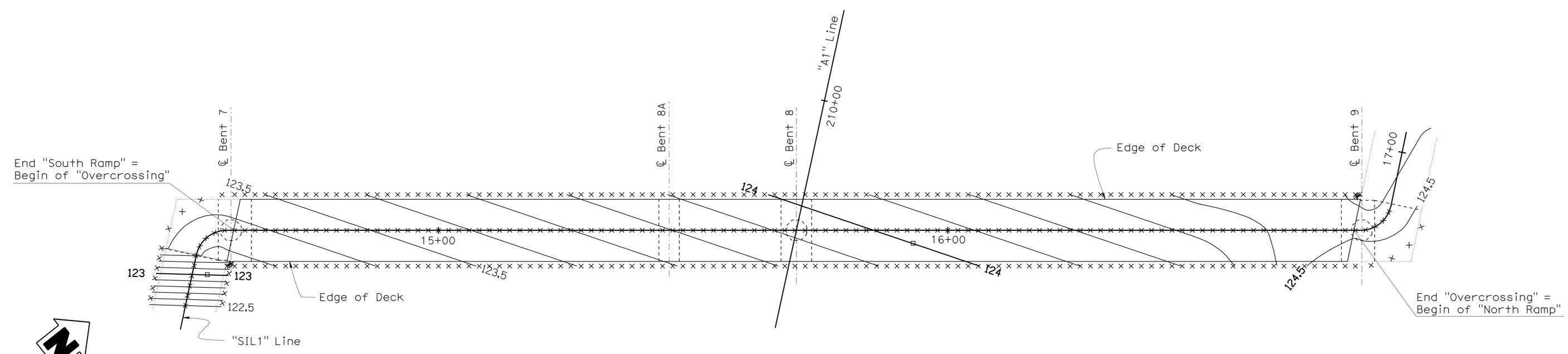
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
DECK CONTOURS NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	914	1288

Andrew P. Rittenhouse 12-12-11
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 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
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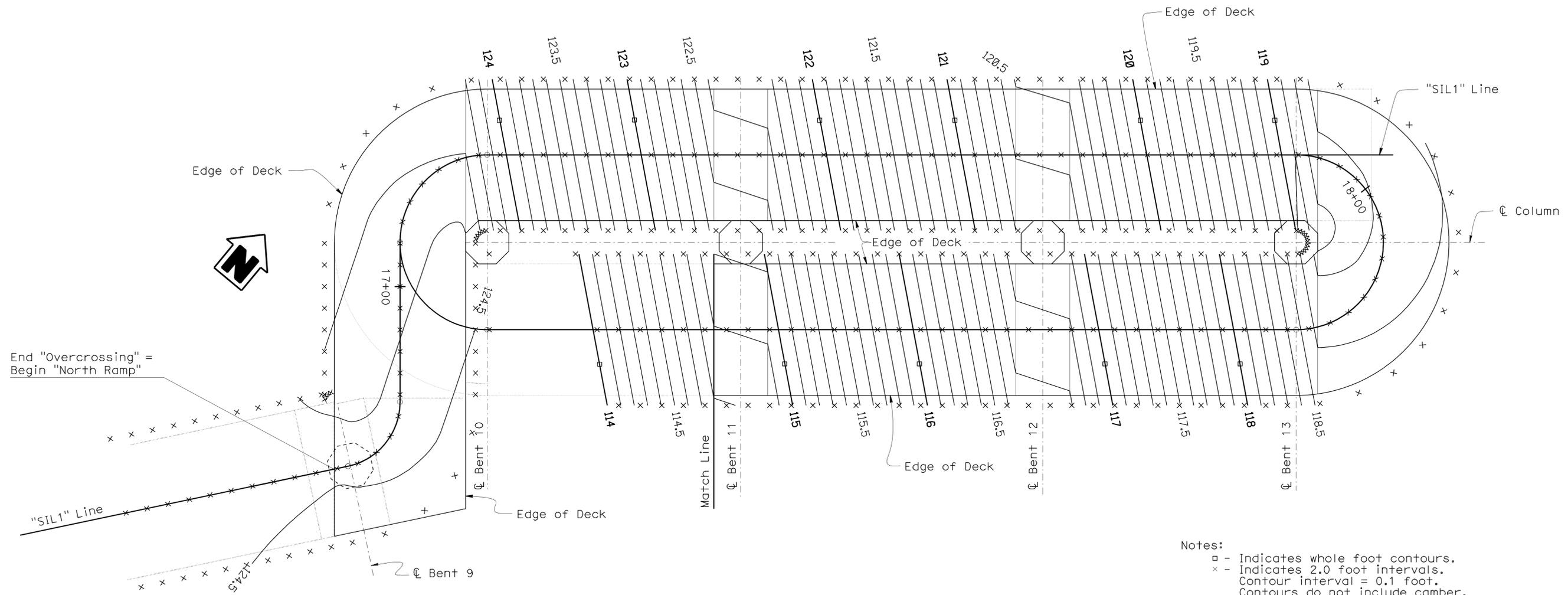
Notes:
 □ - Indicates whole foot contours.
 x - Indicates 2.0 foot intervals.
 Contour interval = 0.1 foot.
 Contours do not include camber.

DECK CONTOURS
 1" = 10'-0"
MAIN RAMP 1 OF 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY Hogni Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC DECK CONTOURS NO. 4		
	DETAILS	BY Stan Cholda	CHECKED L. Bahia			POST MILE	3.97			
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik							
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 01-06-11 03-08-11 10-11-11	SHEET 12 OF 101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	915	1288
Andrew P. Rittenhouse REGISTERED CIVIL ENGINEER			12-12-11 DATE		
3-26-12 PLANS APPROVAL DATE			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		



DECK CONTOURS

1" = 5'-0"

NORTH RAMP 1 OF 3

DESIGN	BY Hogni Setberg	CHECKED Laith Bahia
DETAILS	BY Stan Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

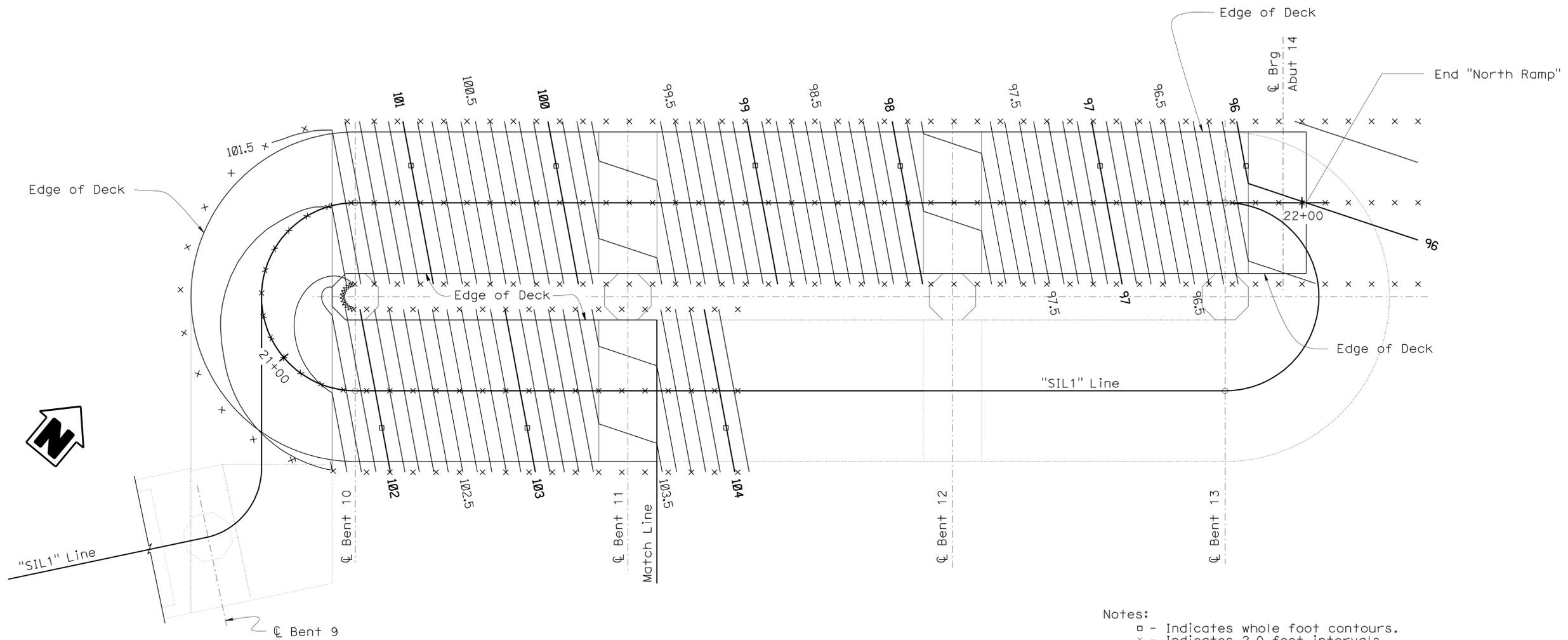
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
DECK CONTOURS NO. 5



REVISION DATES	01-07-11	03-08-11	10-11-11							
SHEET	13									
OF	101									

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	917	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12			PLANS APPROVAL DATE		
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Notes:
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 x - Indicates 2.0 foot intervals.
 Contour interval = 0.1 foot.
 Contours do not include camber.

DECK CONTOURS
 1" = 5'-0"

NORTH RAMP 3 OF 3

DESIGN	BY Hogni Setberg	CHECKED Laith Bahia
DETAILS	BY Stan Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

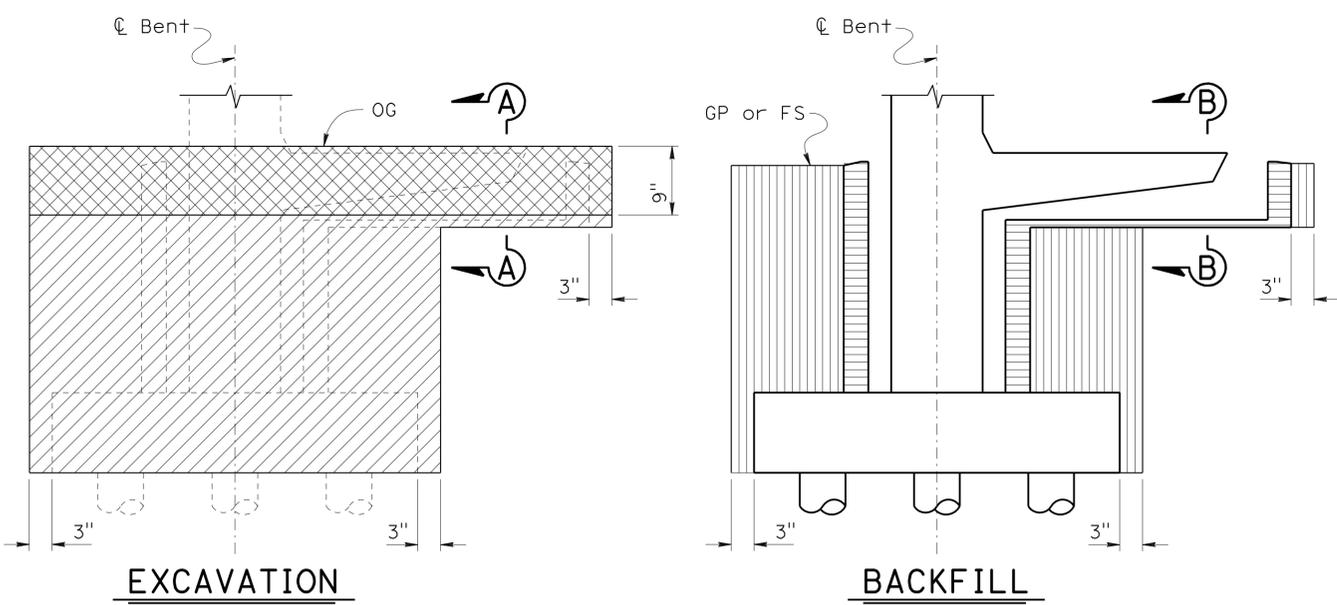
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

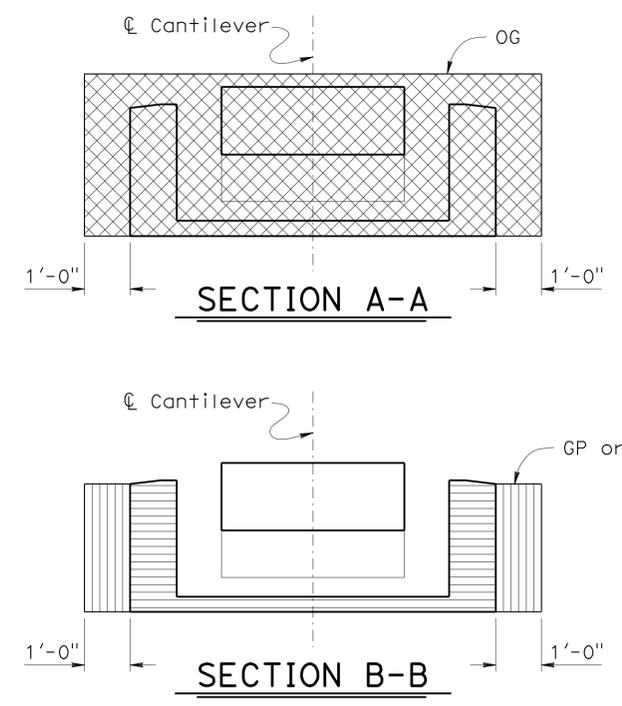
SILVERBOW AVENUE PEDESTRIAN OC
DECK CONTOURS NO. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	918	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
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 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

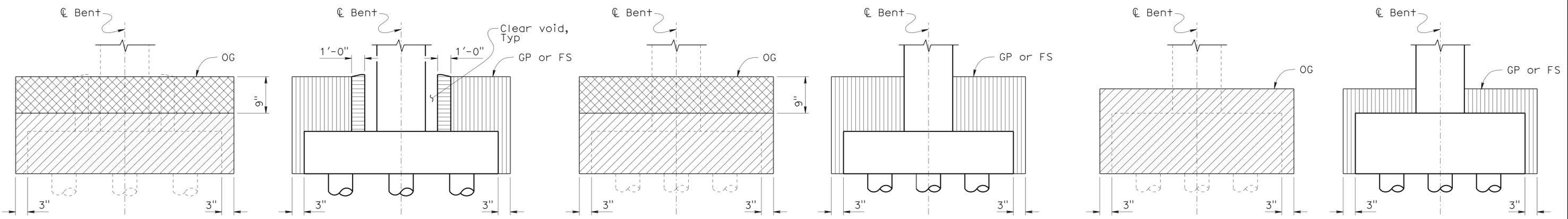


BENTS 4 & 12
NO SCALE



- Legend:
- Structure Excavation (Bridge)
 - Structure Excavation (Type Y-2)
 - Structure Backfill (Bridge)
 - Lean Concrete Backfill

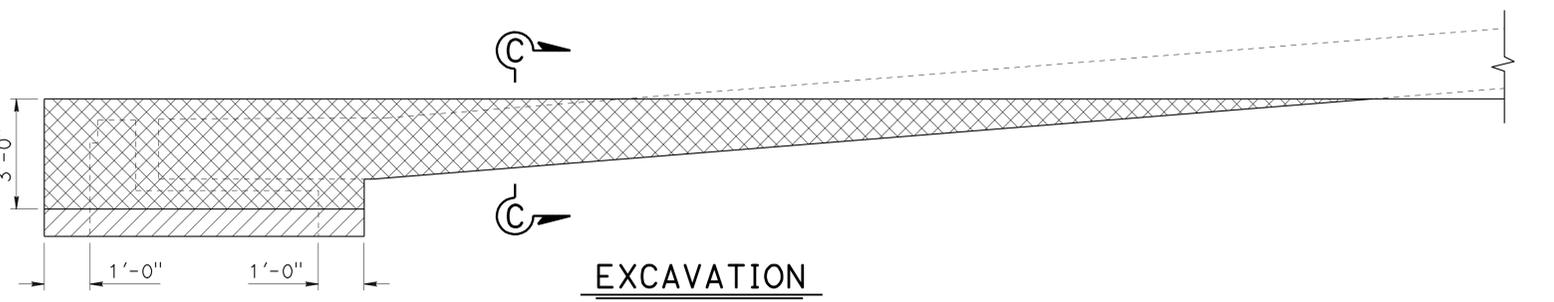
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



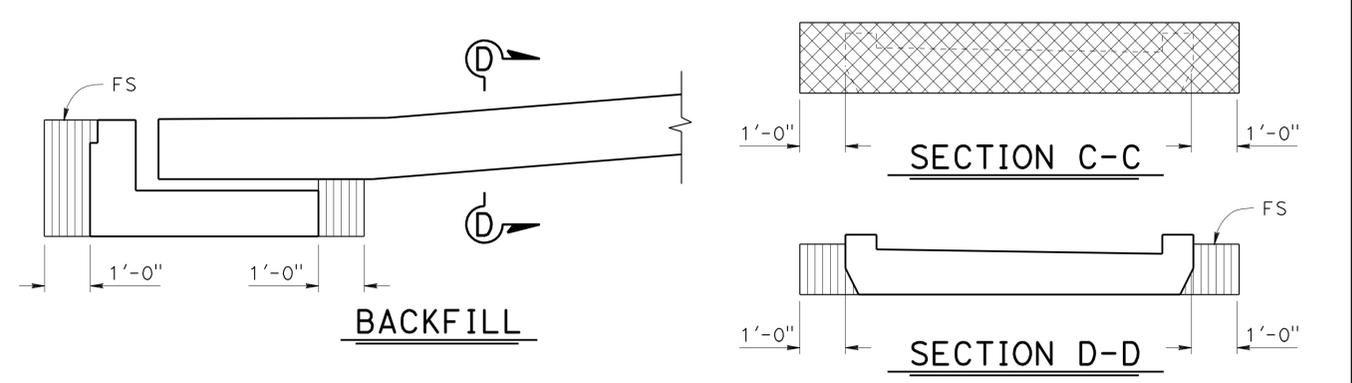
BENTS 2, 3, 5, 10, 11, & 13
NO SCALE

BENTS 6, 7, 8A, & 9
NO SCALE

BENT 8
NO SCALE



ABUTMENTS 1 & 14
NO SCALE



BACKFILL

SECTION C-C

SECTION D-D

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY T. Trefz	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 EXCAVATION AND BACKFILL

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:03

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	919	1288

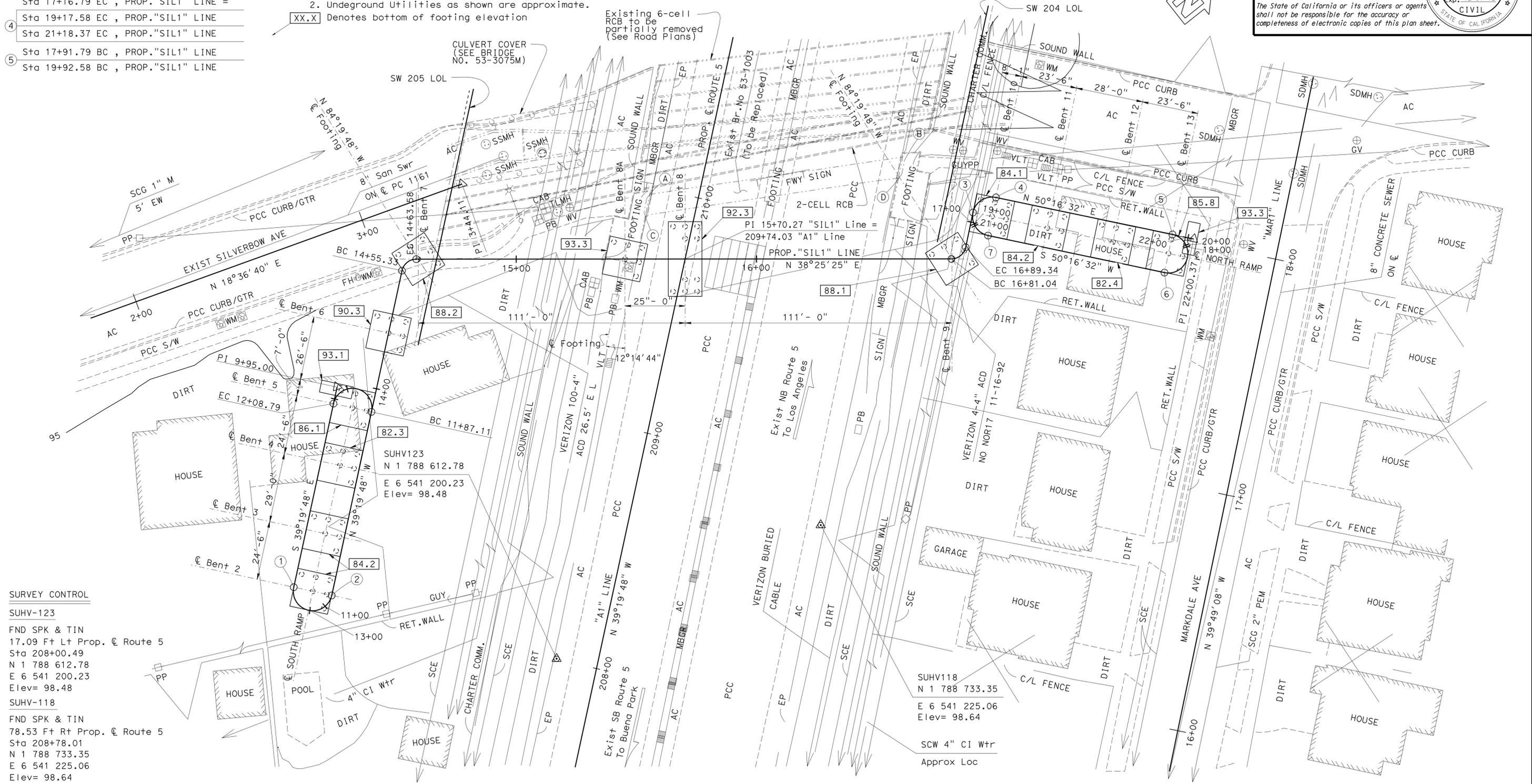
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
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- ① Sta 10+80.00 BC, PROP. "SIL1" LINE =
- Sta 12+86.79 BC, PROP. "SIL1" LINE
- Sta 11+05.39 EC, PROP. "SIL1" LINE =
- ② Sta 13+12.18 EC, PROP. "SIL1" LINE
- Sta 18+92.19 BC, PROP. "SIL1" LINE =
- ③ Sta 20+92.98 BC, PROP. "SIL1" LINE
- Sta 17+16.79 EC, PROP. "SIL1" LINE =
- ④ Sta 19+17.58 EC, PROP. "SIL1" LINE
- Sta 21+18.37 EC, PROP. "SIL1" LINE
- ⑤ Sta 17+91.79 BC, PROP. "SIL1" LINE
- Sta 19+92.58 BC, PROP. "SIL1" LINE

- ⑥ Sta 18+17.19 EC, PROP. "SIL1" LINE =
- Sta 20+17.98 EC, PROP. "SIL1" LINE
- Sta 18+92.19 BC, PROP. "SIL1" LINE =
- ⑦ Sta 20+92.98 BC, PROP. "SIL1" LINE

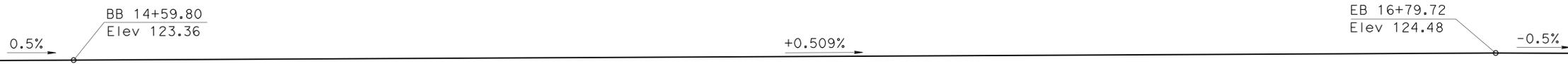
Notes:
 1. All piles not shown
 2. Underground Utilities as shown are approximate.
 XX.X Denotes bottom of footing elevation

- BRIDGE LOCATION (Exist Br.No 53-1003)
- A 20.91 Ft Lt "A1" Line, Prop. @ Route 5, Sta 209+95.36, Elev= 114.58±
 - B 80.56 Ft Rt "A1" Line, Prop. @ Route 5, Sta 210+33.52, Elev= 114.41±
 - C 20.85 Ft Lt "A1" Line, Prop. @ Route 5, Sta 209+89.40, Elev= 114.60±
 - D 80.63 Ft Rt "A1" Line, Prop. @ Route 5, Sta 210+27.53, Elev= 114.51±



SURVEY CONTROL
 SUHV-123
 FND SPK & TIN
 17.09 Ft Lt Prop. @ Route 5
 Sta 208+00.49
 N 1 788 612.78
 E 6 541 200.23
 Elev= 98.48
 SUHV-118
 FND SPK & TIN
 78.53 Ft Rt Prop. @ Route 5
 Sta 208+78.01
 N 1 788 733.35
 E 6 541 225.06
 Elev= 98.64

PRELIMINARY INVESTIGATION SECTION				DESIGN BY H. Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO. 53-3043	SILVERBOW AVENUE PEDESTRIAN OC FOUNDATION PLAN						
SCALE 1"=20'	VERT. DATUM NAVD88	PHOTOGRAMMETRY AS OF: X	DETAILS BY S. Cholda	CHECKED L. Bahia	POST MILE 3.97										
ALIGNMENT TIES	DIST. TRAVERSE SHEETS	DRAFTED BY V. PHAM 02/2010	CHECKED BY T. PHUNG 02/2010	CHECKED BY S. ALIVIO 02/2010	QUANTITIES BY T. Trefz										
STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07-225 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th>REVISION DATES</th> <th>SHEET</th> <th>OF</th> </tr> <tr> <td>02/05/10 01/31/11 02/26/11 06/25/11 7-14-11 8-16-11 11-05-11 01-06-12 01-06-12</td> <td>17</td> <td>101</td> </tr> </table>	REVISION DATES	SHEET	OF	02/05/10 01/31/11 02/26/11 06/25/11 7-14-11 8-16-11 11-05-11 01-06-12 01-06-12	17	101
REVISION DATES	SHEET	OF													
02/05/10 01/31/11 02/26/11 06/25/11 7-14-11 8-16-11 11-05-11 01-06-12 01-06-12	17	101													



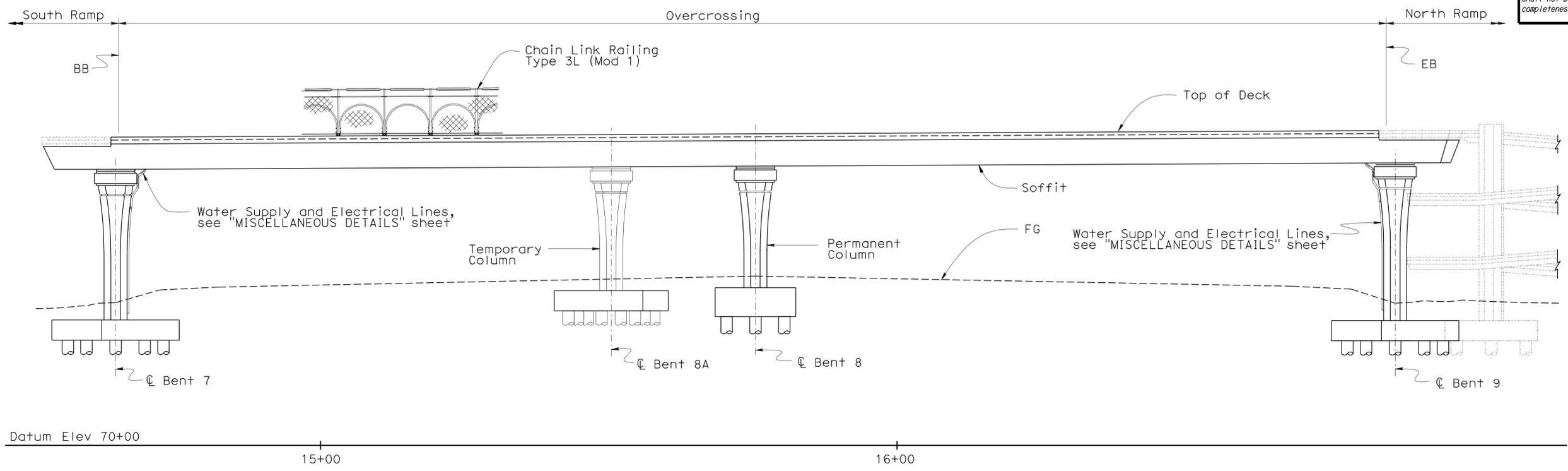
PROFILE GRADE
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	920	1288

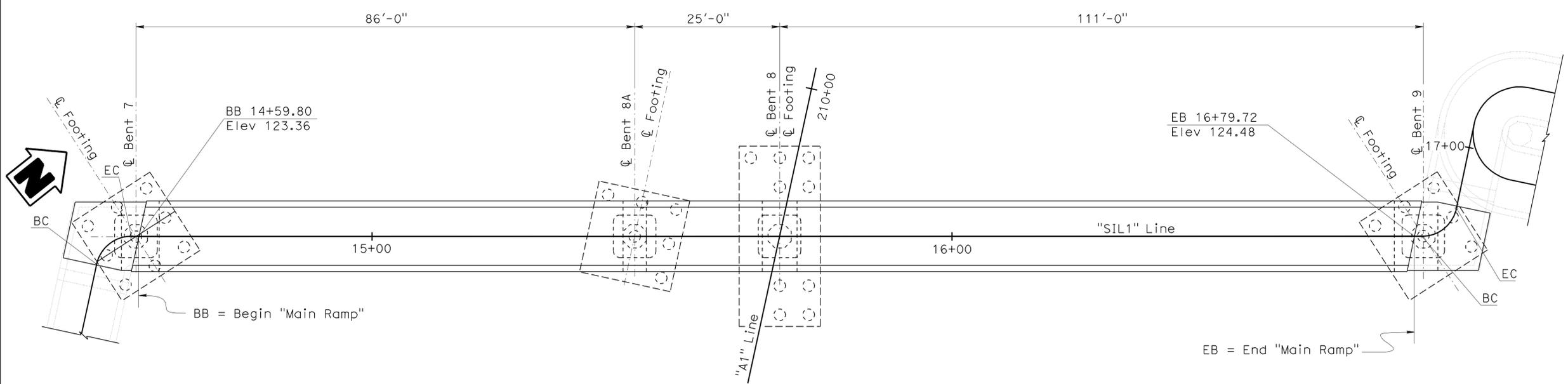
REGISTERED CIVIL ENGINEER DATE 12-12-11
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

PLANS APPROVAL DATE 3-26-12

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ELEVATION
1" = 10'-0"



PLAN
1" = 10'-0"

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

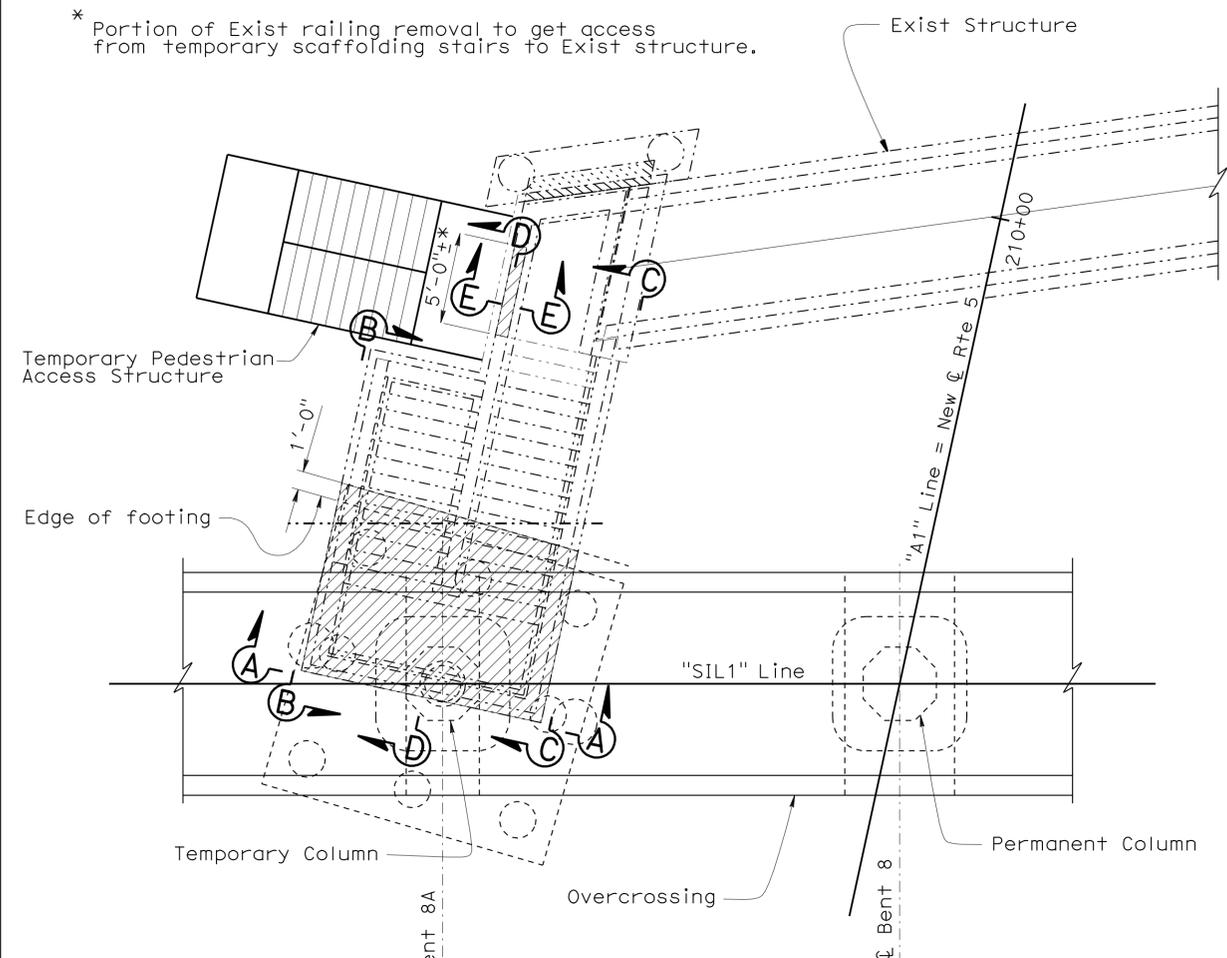
SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-LAYOUT



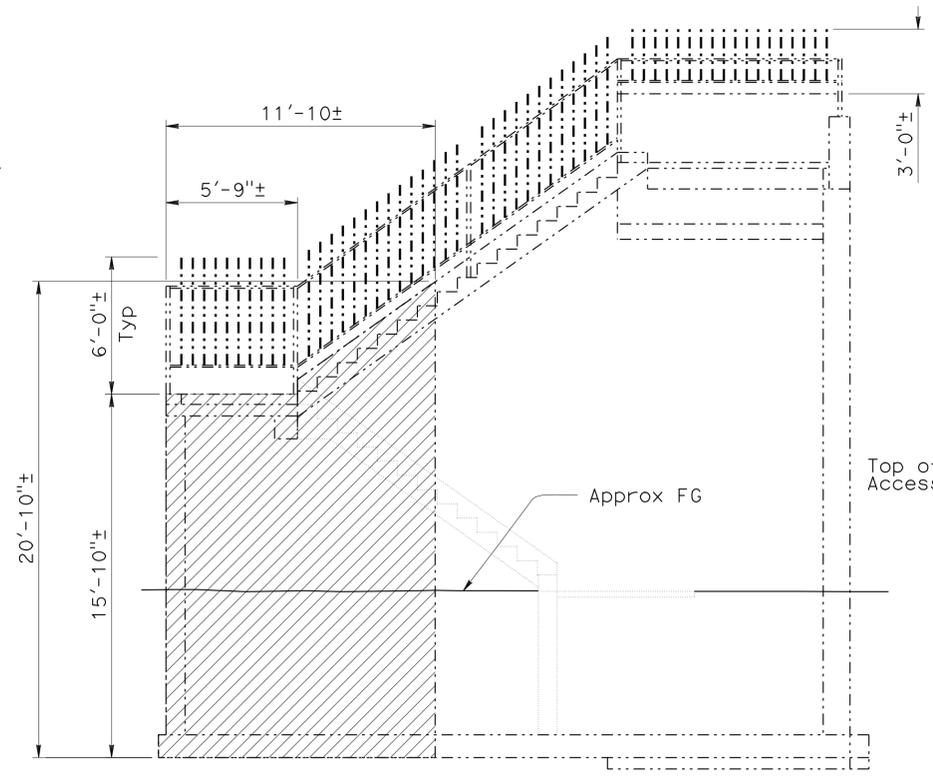
7-18-09	3-27-11	05-23-11	07-26-11	09-07-11	10-11-11	01-05-12	01-05-12	01-24-12	03-07-11
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	921	1288
REGISTERED CIVIL ENGINEER		DATE			
Andrew P. Rittenhouse		12-12-11			
PLANS APPROVAL DATE					
3-26-12					
No. 61006		Exp. 12-31-12			
CIVIL		STATE OF CALIFORNIA			
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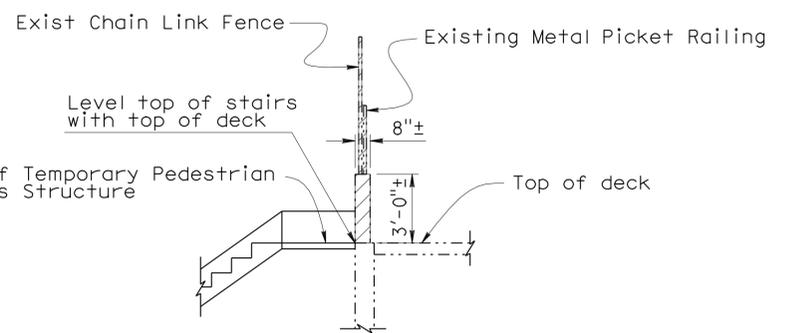
* Portion of Exist railing removal to get access from temporary scaffolding stairs to Exist structure.



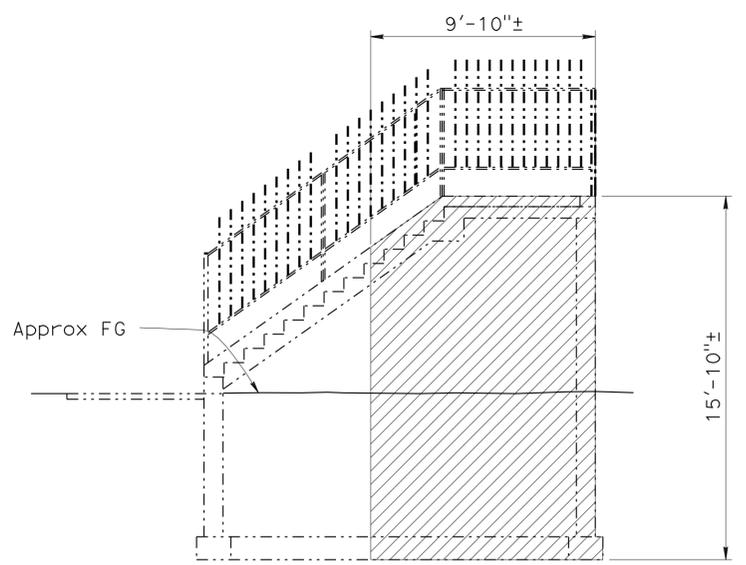
PLAN
1" = 5'-0"



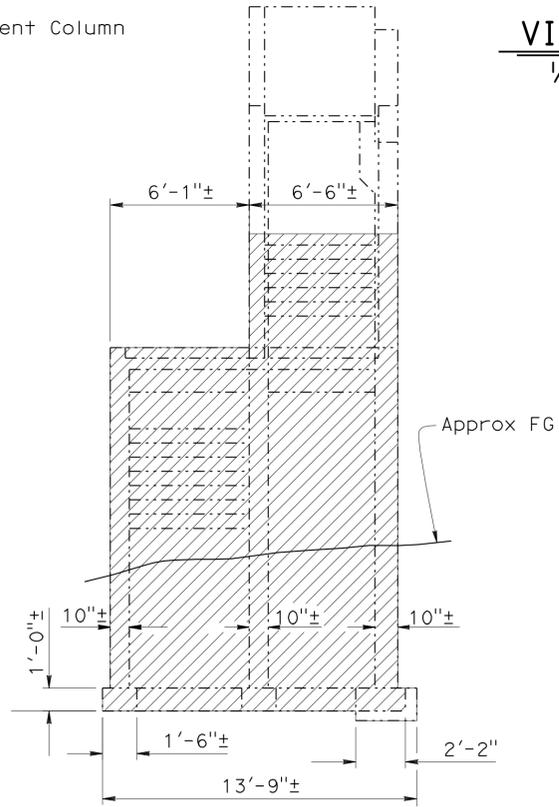
VIEW C-C
1/4" = 1'-0"



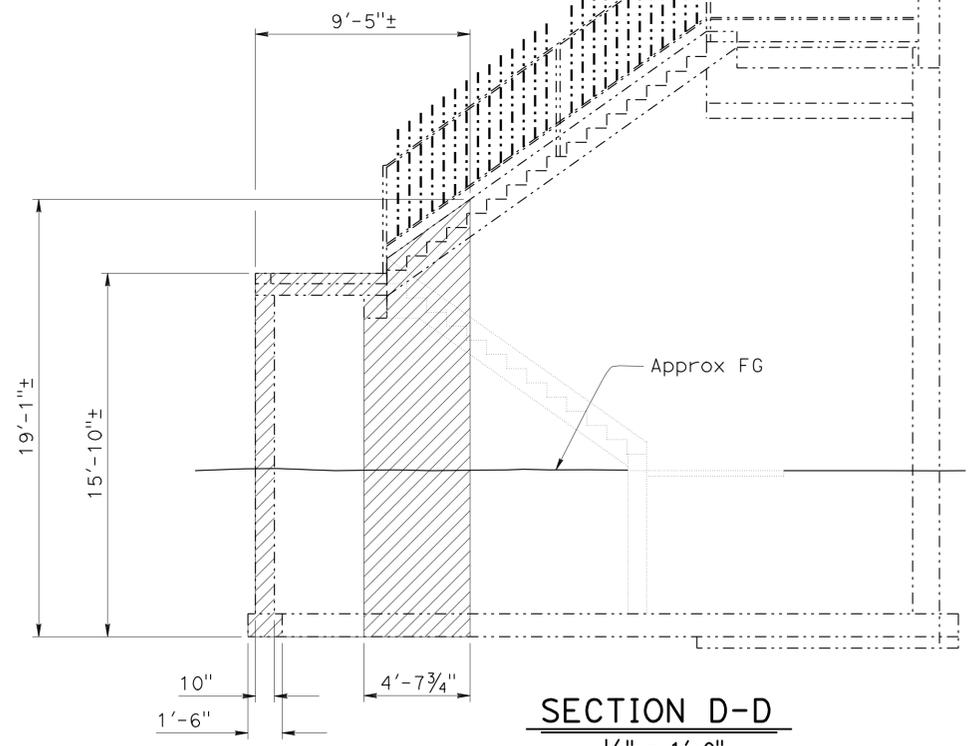
SECTION E-E
1/4" = 1'-0"



VIEW B-B
1/4" = 1'-0"



VIEW A-A
1/4" = 1'-0"



SECTION D-D
1/4" = 1'-0"

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

EXISTING STRUCTURE REMOVAL LIMITS

Note: For Exist structure dimension not shown, see "AS-BUILT PLANS" for "SILVERBOW AVE PEDESTRIAN OC", Bridge No. 53-1003.

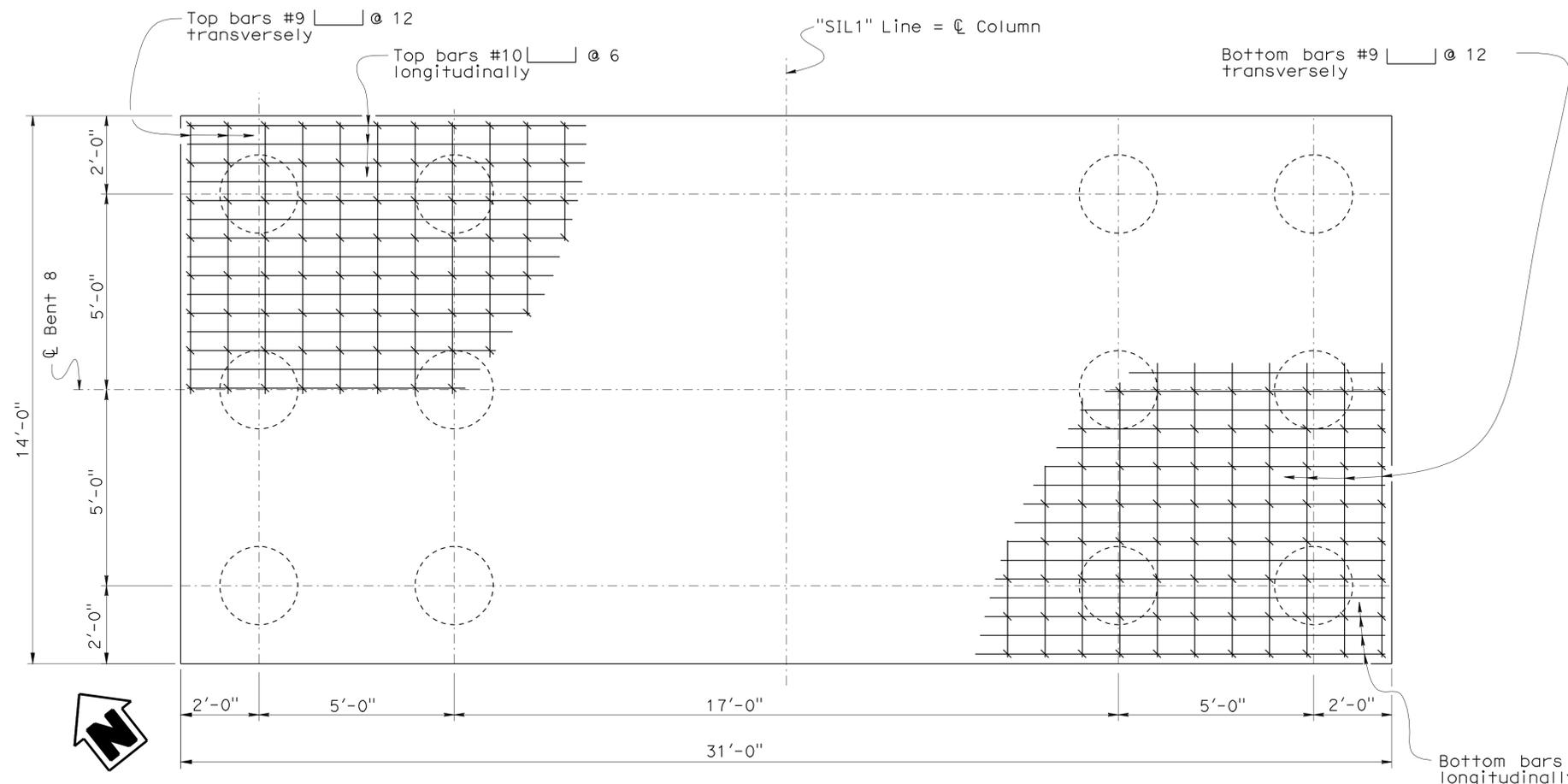
Legend:
 ----- Indicates Exist Structure
 // Indicates Exist Structure Bridge Removal Limits to accommodate Temporary Column on "Overcrossing"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED L. Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-DEMOLITION DETAILS
	DETAILS	BY S. Cholda	CHECKED L. Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			CU 07 EA 215931	REVISION DATES	
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	FILE => 53-3043o-g-demo.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 19 OF 101

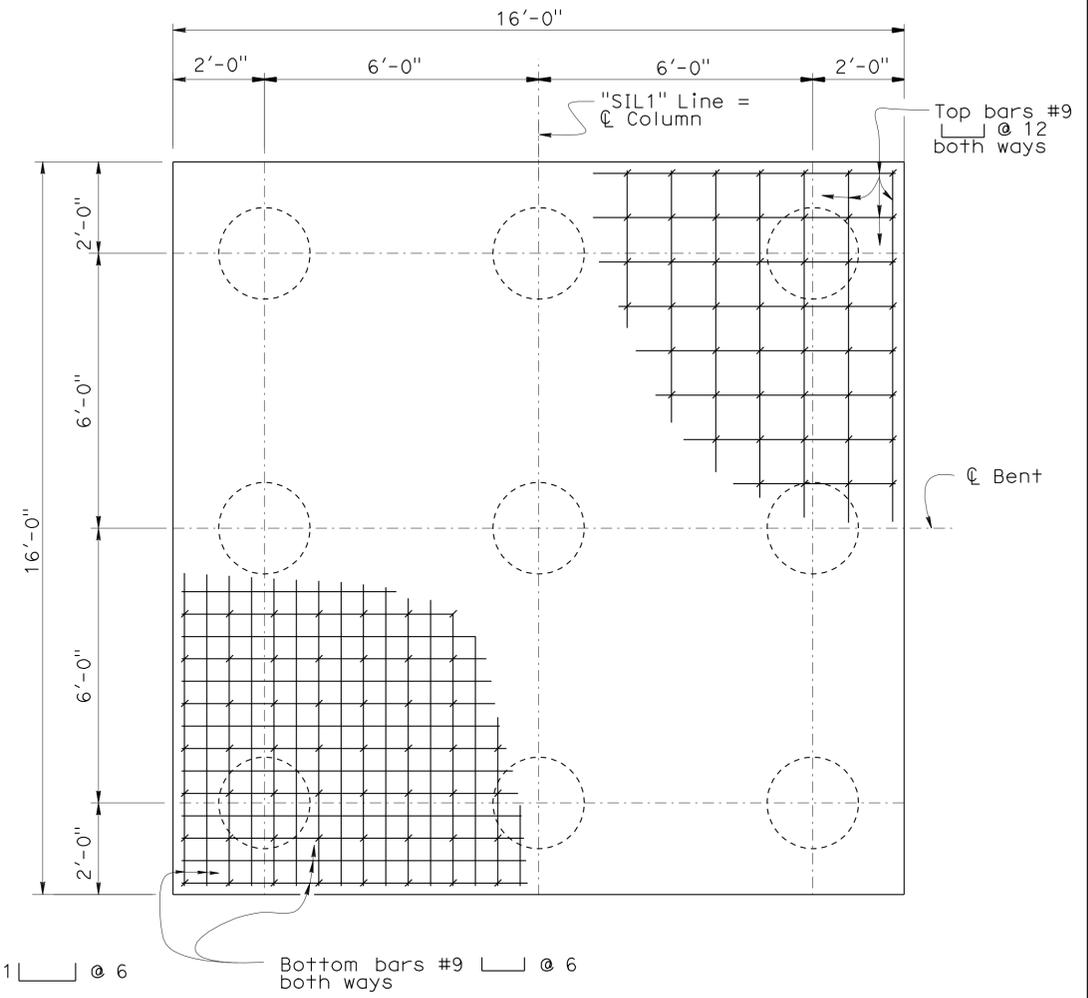
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TIME PLOTTED => 10:46
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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			REGISTERED CIVIL ENGINEER	DATE	
			Andrew P. Rittenhouse	12-12-11	
			PLANS APPROVAL DATE		
			3-26-12		
			REGISTERED PROFESSIONAL ENGINEER	No.	61006
			Andrew P. Rittenhouse	Exp.	12-31-12
			CIVIL		
			STATE OF CALIFORNIA		

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**BENT 8
FOOTING PLAN**
1/2" = 1'-0"



**BENT 7, 8A & 9
FOOTING PLAN**
1/2" = 1'-0"

Note:
1. Top longitudinal main footing reinforcement bars may be bundled at the location of the column.

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

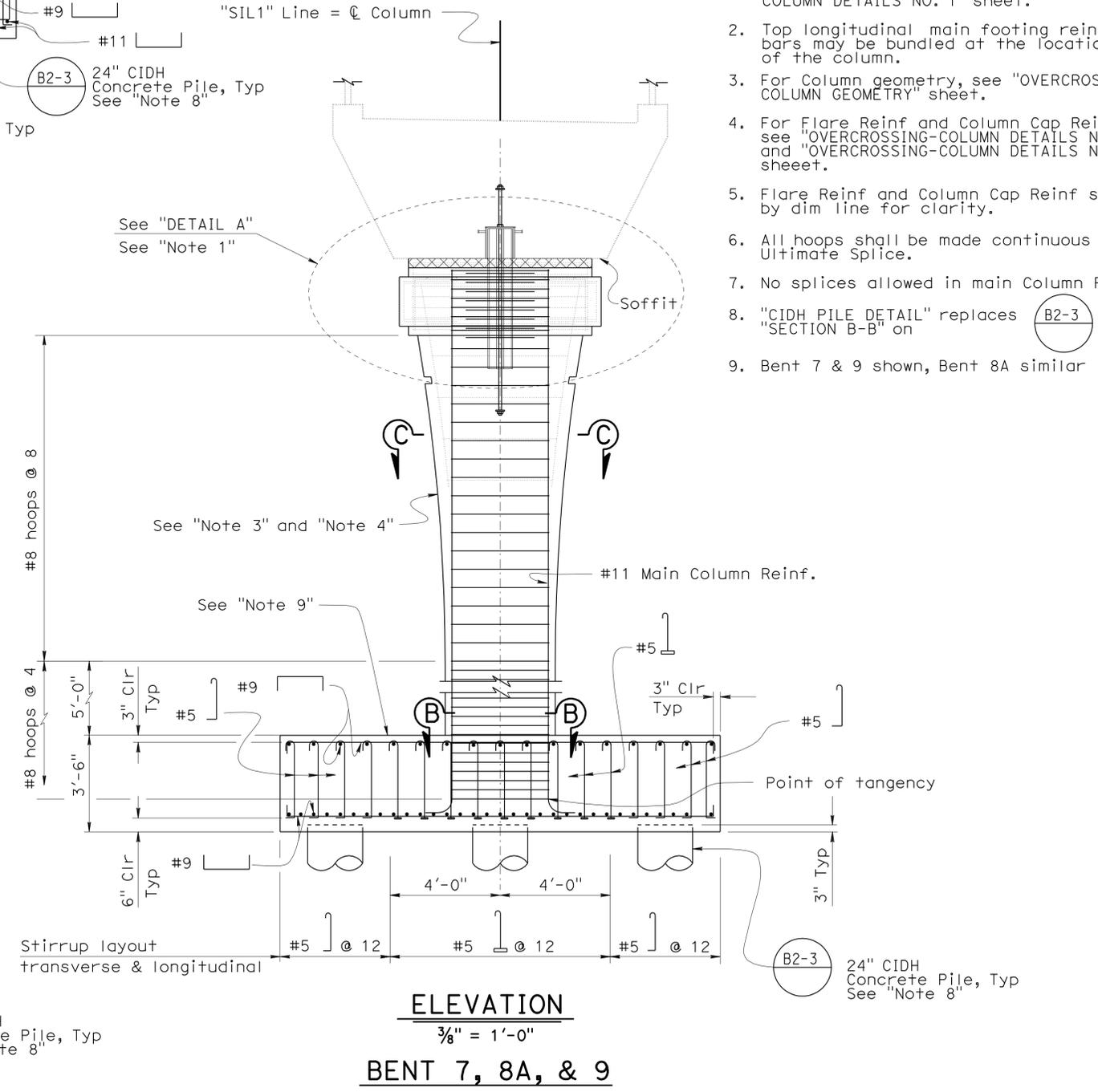
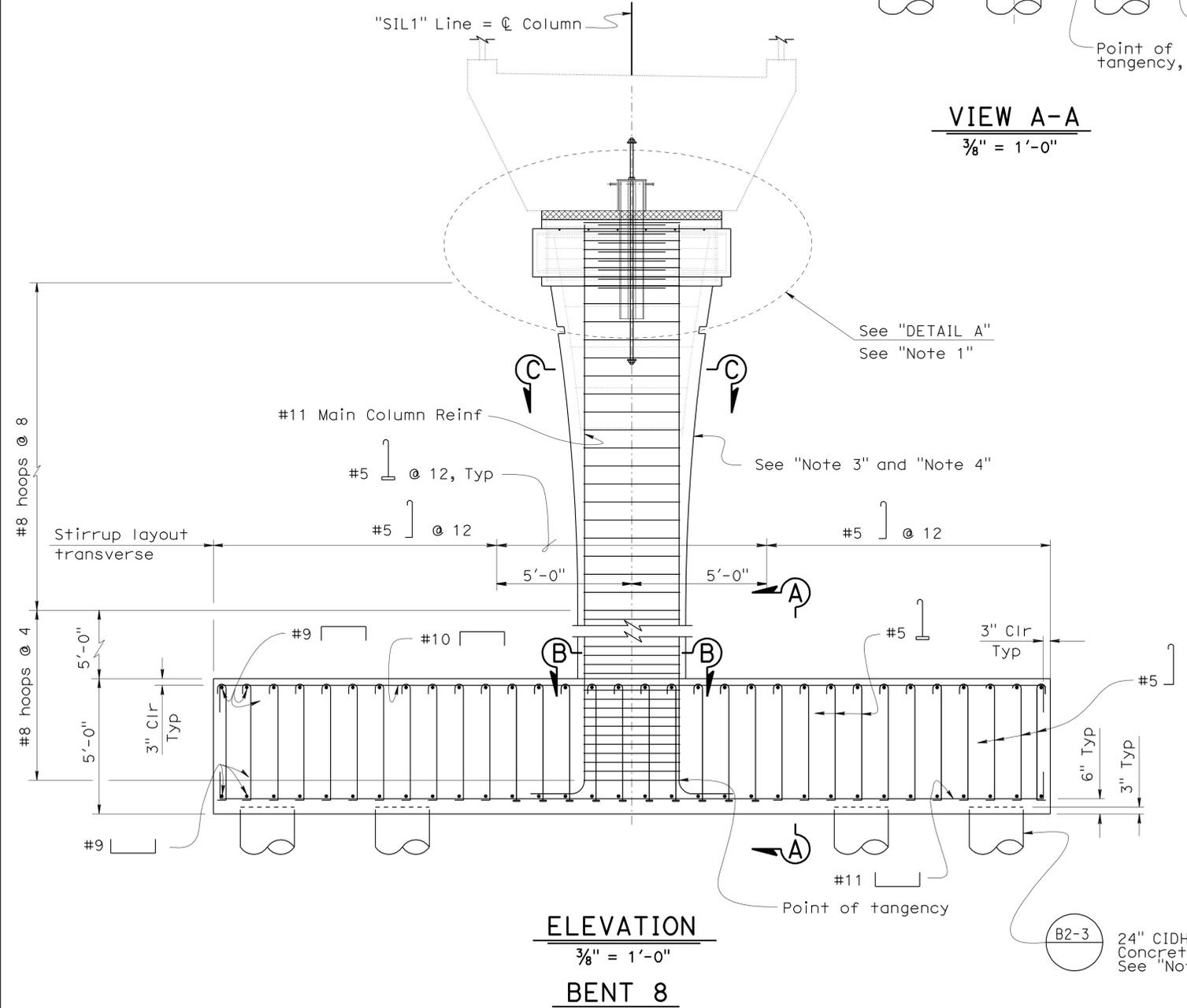
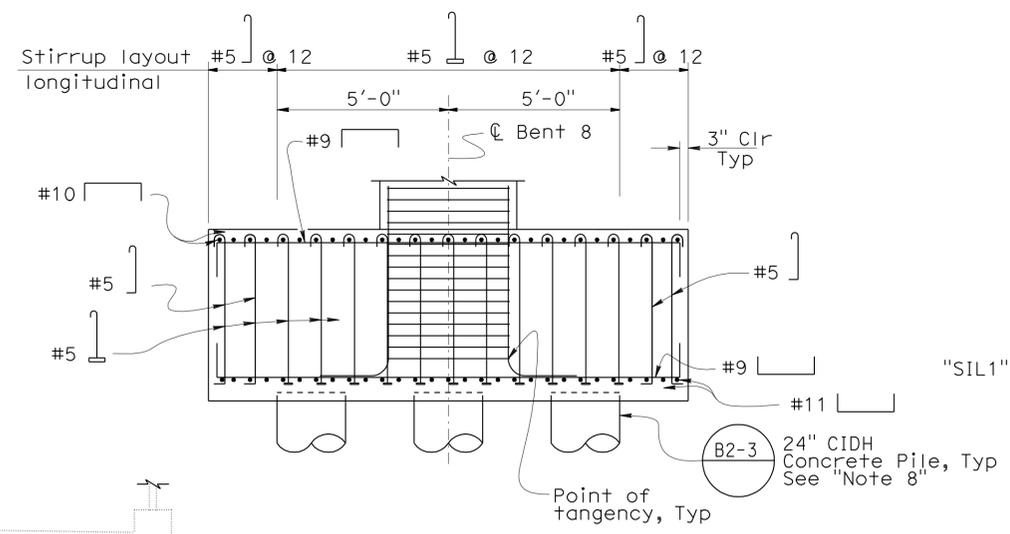
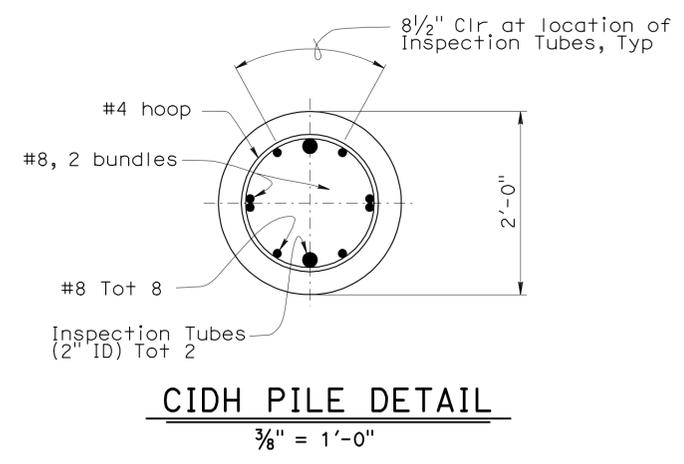
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

**SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-FOOTING DETAILS**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	923	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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- Notes:
- For "DETAIL A", "SECTION B-B", and "SECTION C-C", see "OVERCROSSING COLUMN DETAILS NO. 1" sheet.
 - Top longitudinal main footing reinf bars may be bundled at the location of the column.
 - For Column geometry, see "OVERCROSSING-COLUMNS GEOMETRY" sheet.
 - For Flare Reinf and Column Cap Reinf, see "OVERCROSSING-COLUMN DETAILS NO. 2" and "OVERCROSSING-COLUMN DETAILS NO. 3" sheet.
 - Flare Reinf and Column Cap Reinf shown by dim line for clarity.
 - All hoops shall be made continuous by Ultimate Splice.
 - No splices allowed in main Column Reinf.
 - "CIDH PILE DETAIL" replaces "SECTION B-B" on B2-3
 - Bent 7 & 9 shown, Bent 8A similar

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

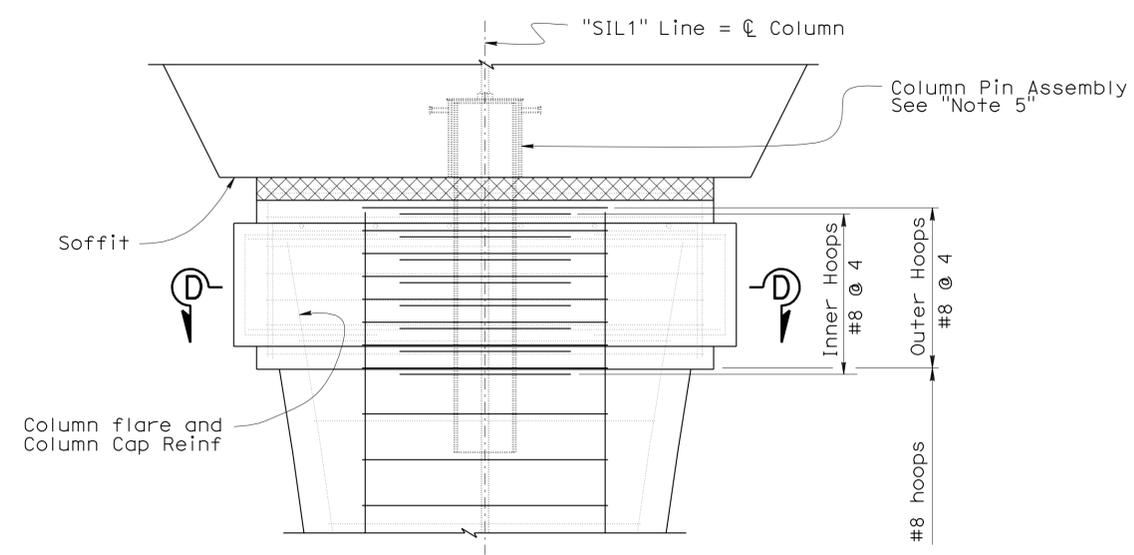
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

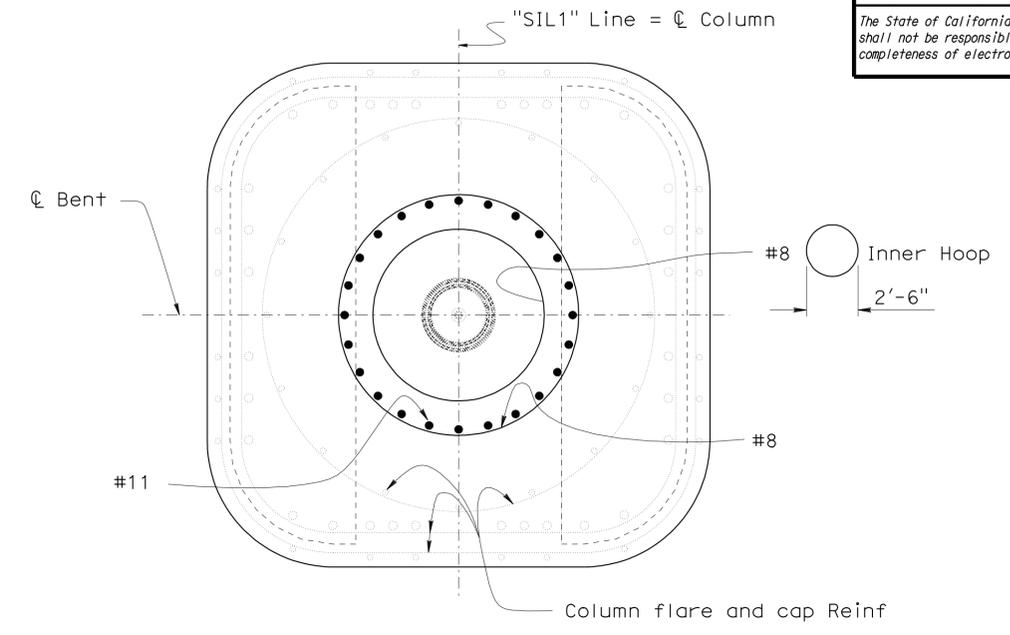
BRIDGE NO. 53-3043
POST MILE 3.97
SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-BENT ELEVATIONS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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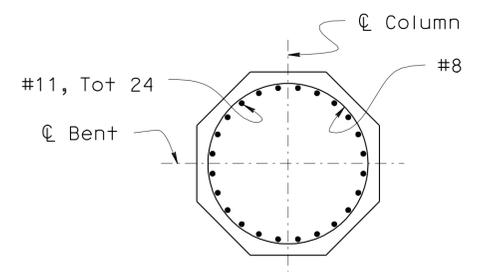
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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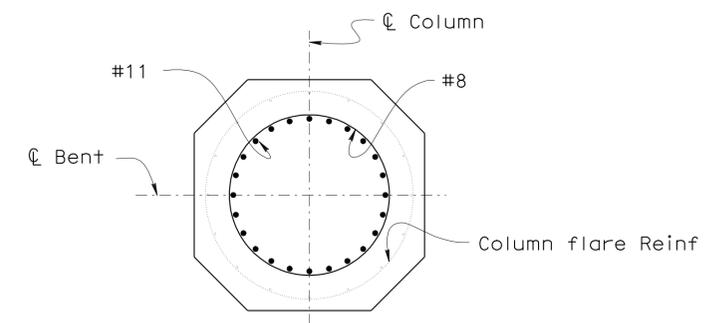
DETAIL A
3/4" = 1'-0"



SECTION D-D
3/4" = 1'-0"



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



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

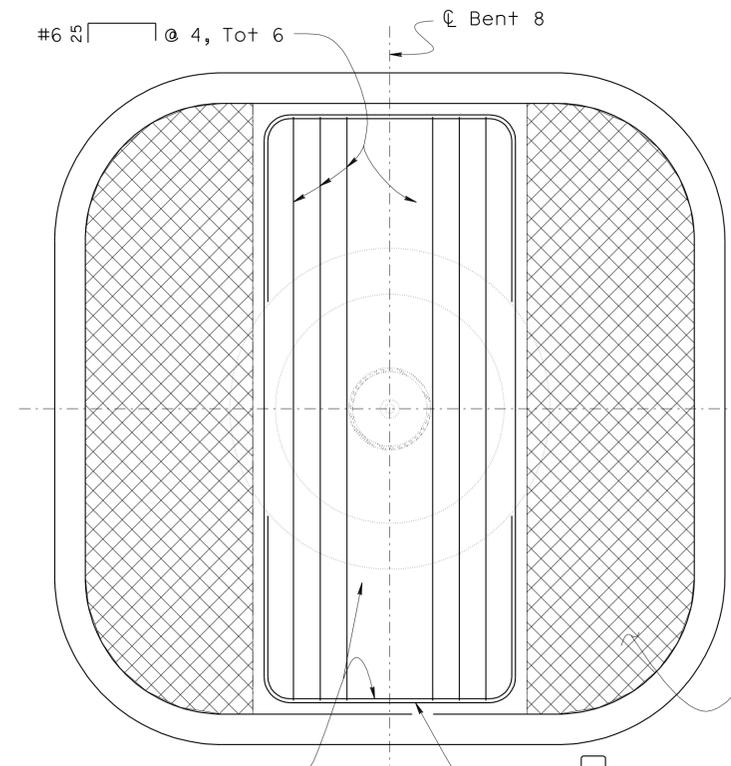
Notes:

1. For Column geometry, see "OVERCROSSING-COLUMN GEOMETRY" sheet.
2. For Flare Reinf and Column Cap Reinf, see "OVERCROSSING-COLUMN DETAILS NO. 2" and "OVERCROSSING-COLUMN DETAILS NO. 3" sheets.
3. Flare Reinf and Column Cap Reinf shown by dim line for clarity.
4. All hoops shall be made continuous by Ultimate Splice.
5. For Column Pin Assembly, see "PIN ASSEMBLY DETAILS" sheets.

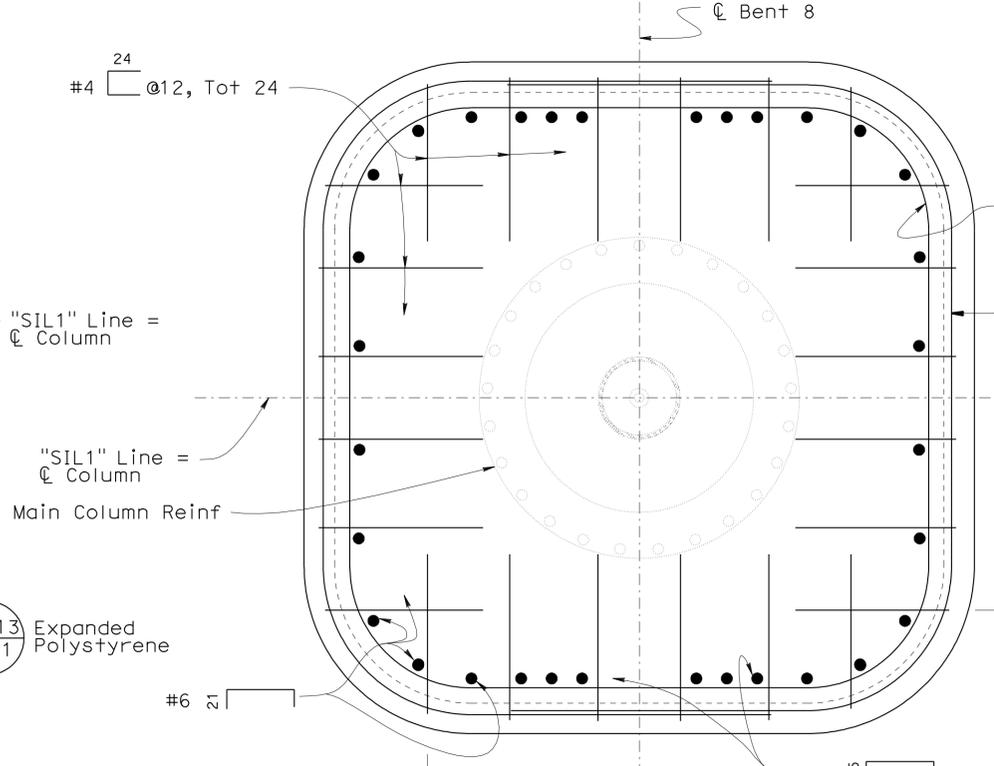
BENTS 7, 8A, 8 & 9

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-COLUMN DETAILS NO. 1
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			REVISION DATES	12-23-10 01-11-11 02-07-11 03-20-11 06-20-11 01-27-11 08-16-11 09-07-11 09-26-11 10-11-11	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 22	OF 101

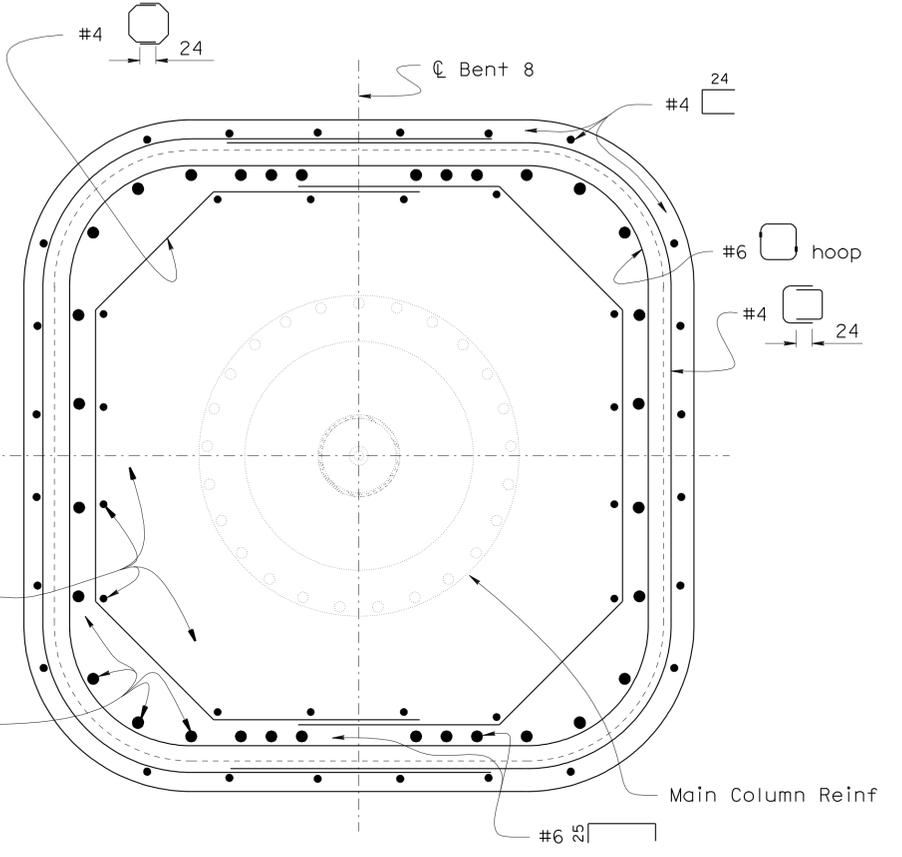
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	926	1288
Andrew P. Rittenhouse REGISTERED CIVIL ENGINEER			12-12-11 DATE		
3-26-12 PLANS APPROVAL DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



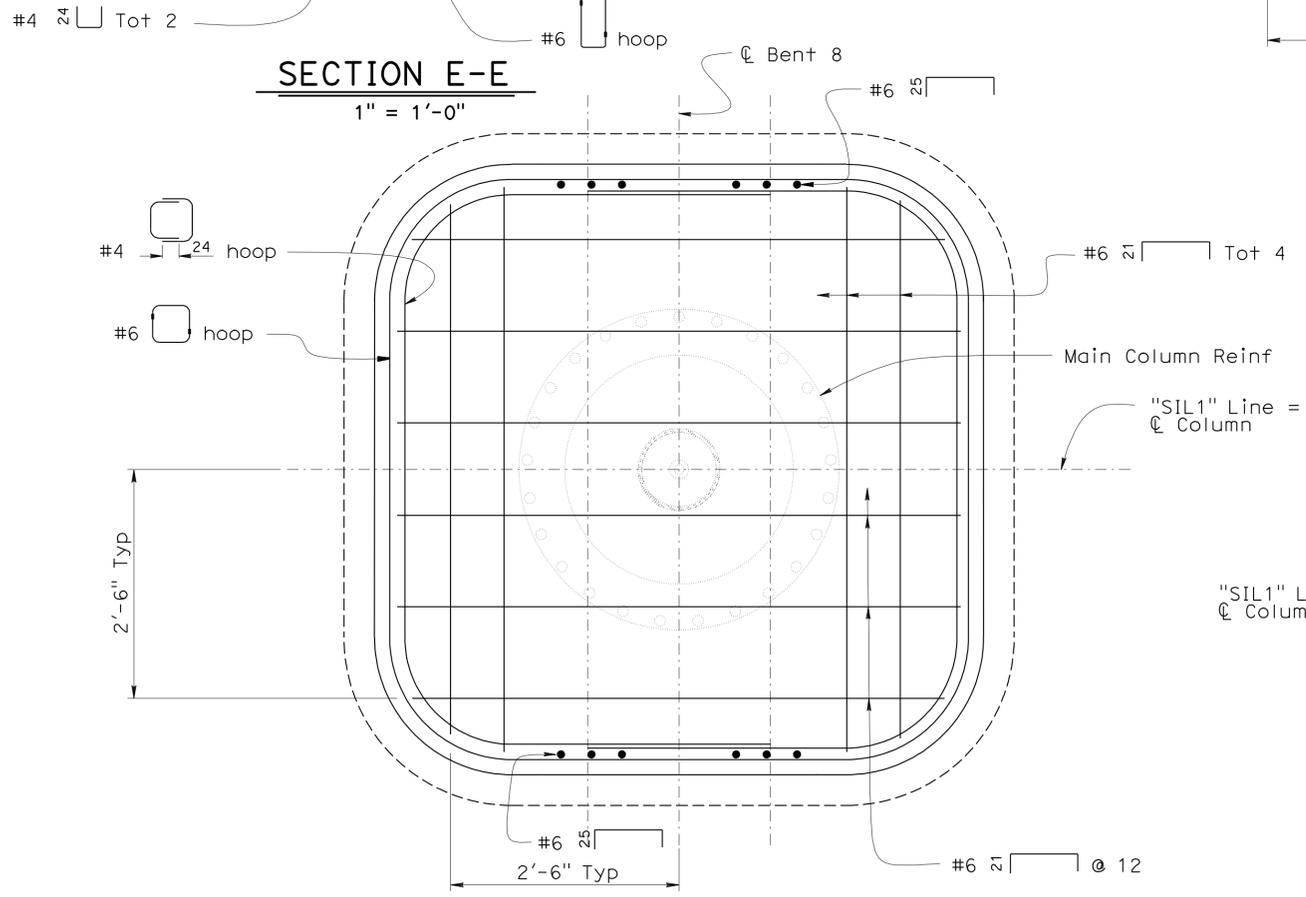
SECTION E-E
1" = 1'-0"



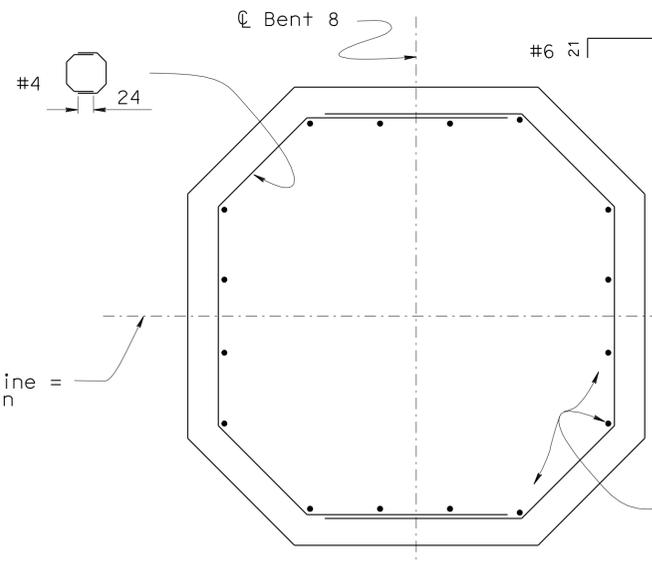
SECTION G-G
1" = 1'-0"



SECTION H-H
1" = 1'-0"



SECTION F-F
1" = 1'-0"



SECTION I-I
1" = 1'-0"

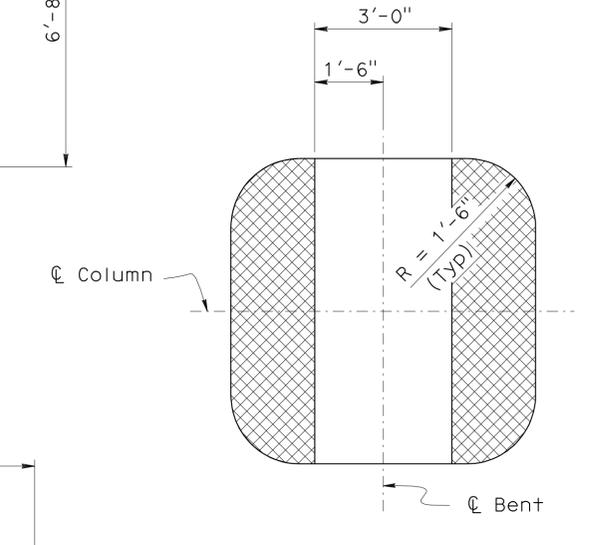
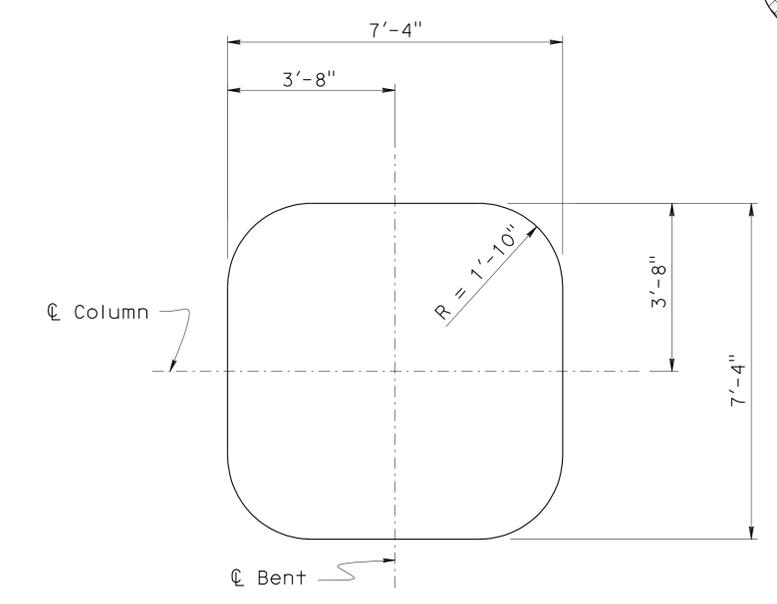
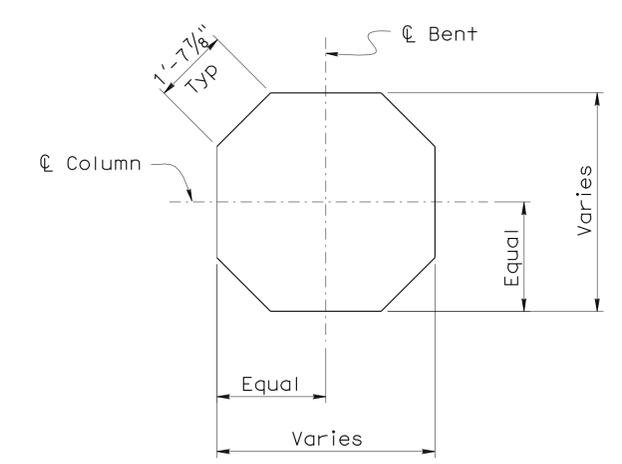
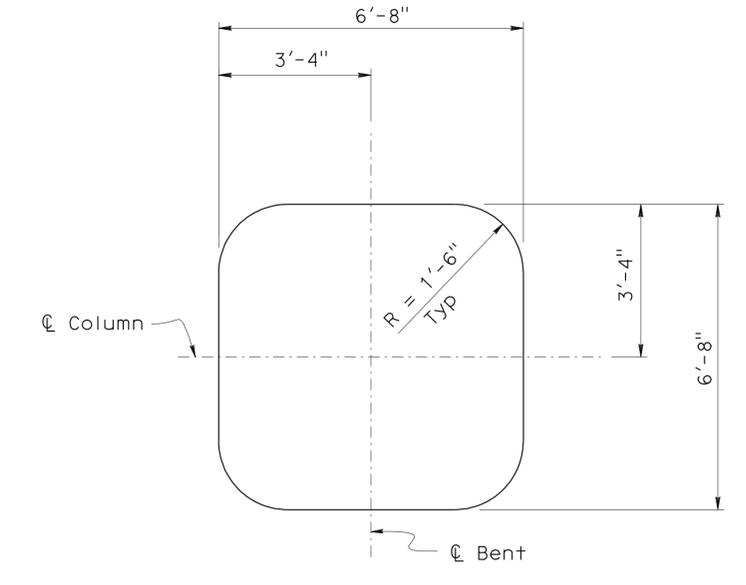
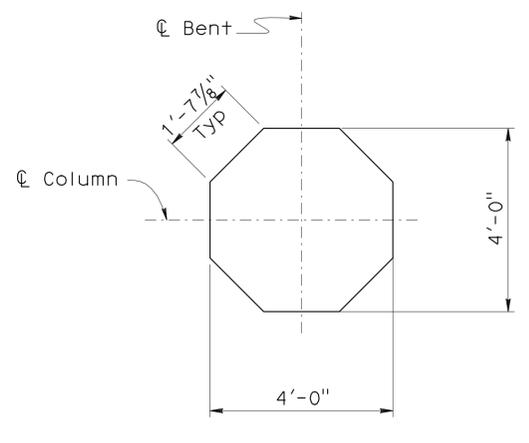
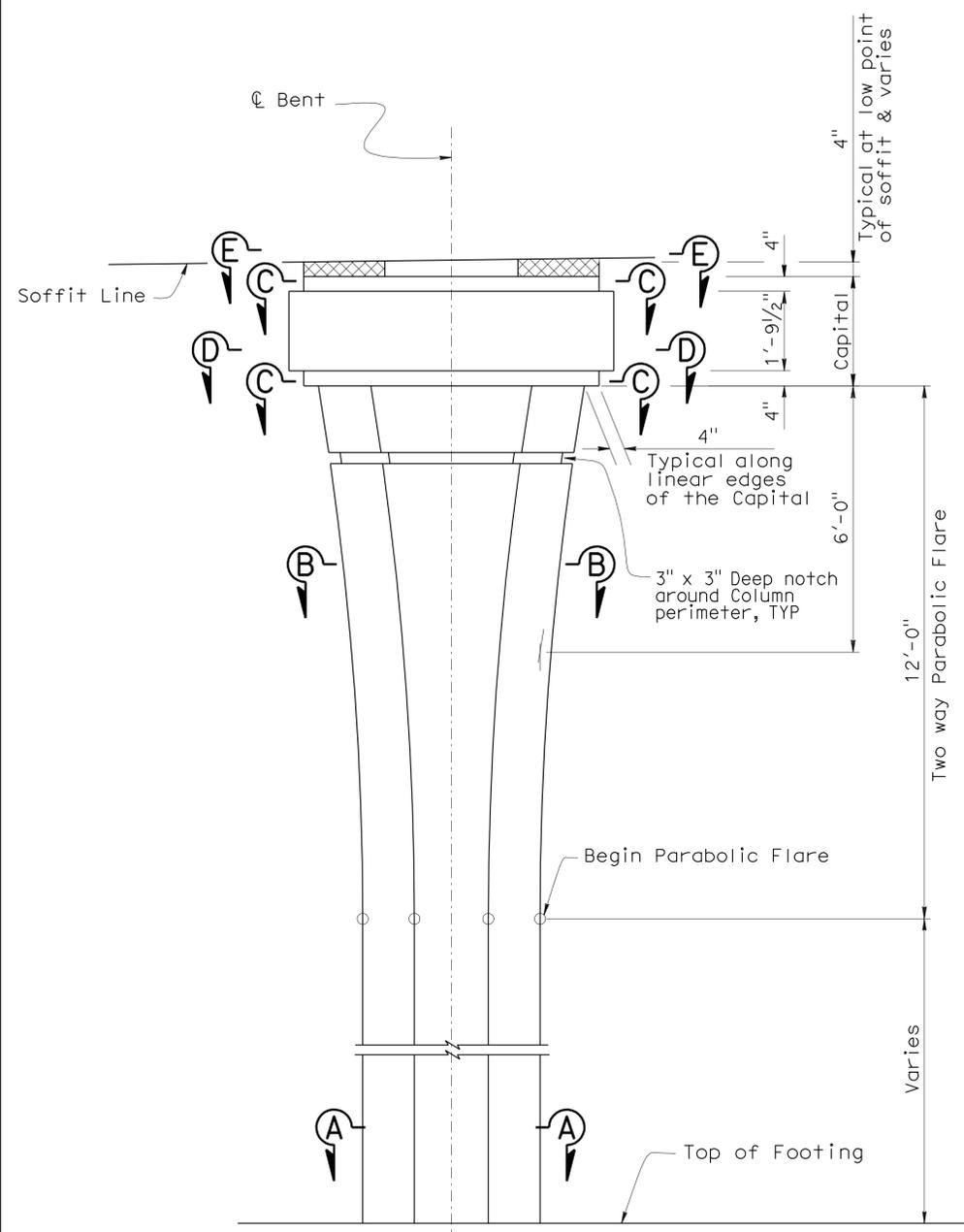
BENTS 7, 8A, 8, & 9 (B0-13/13-1)

- Notes:
1. For Column geometry, see "OVERCROSSING-COLUMN GEOMETRY" sheet.
 2. Main Column Reinf shown by dim line for clarity.
 3. All hoops shall be made continuous by Ultimate Splace.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN BY H. Setberg CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 53-3043 POST MILE 3.97	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-COLUMN DETAILS NO. 3
	DETAILS BY S. Cholda CHECKED A. Logus		DESIGN BRANCH 15	SHEET 24 OF 101	
	QUANTITIES BY T. Trefz CHECKED H. Mauroschat		CU 07 EA 215931	REVISION DATES: 12-23-10, 01-11-11, 02-10-11, 03-20-11, 05-19-11, 08-30-11, 09-07-11, 09-26-11, 10-11-11	

FILE => 53-3043o-j-ctf1_03.dgn

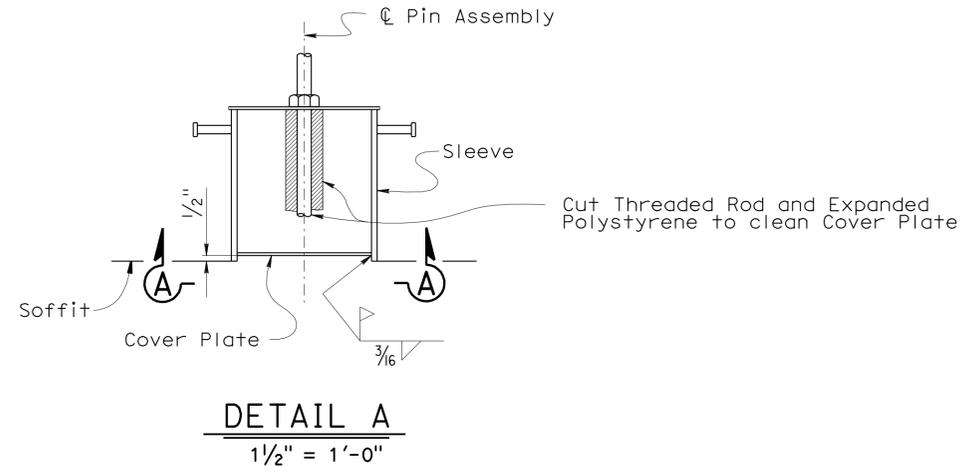
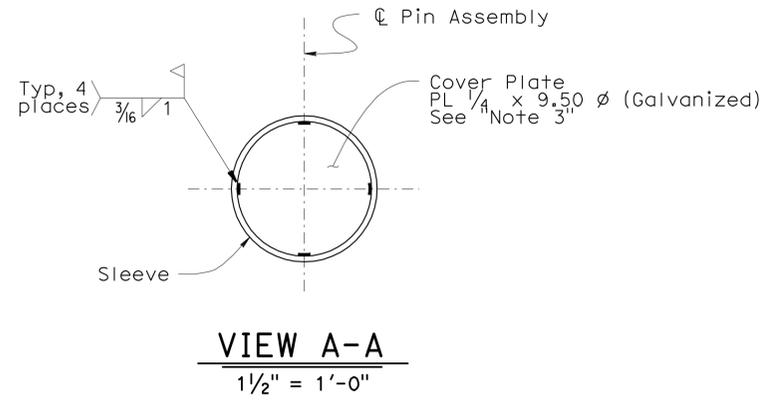
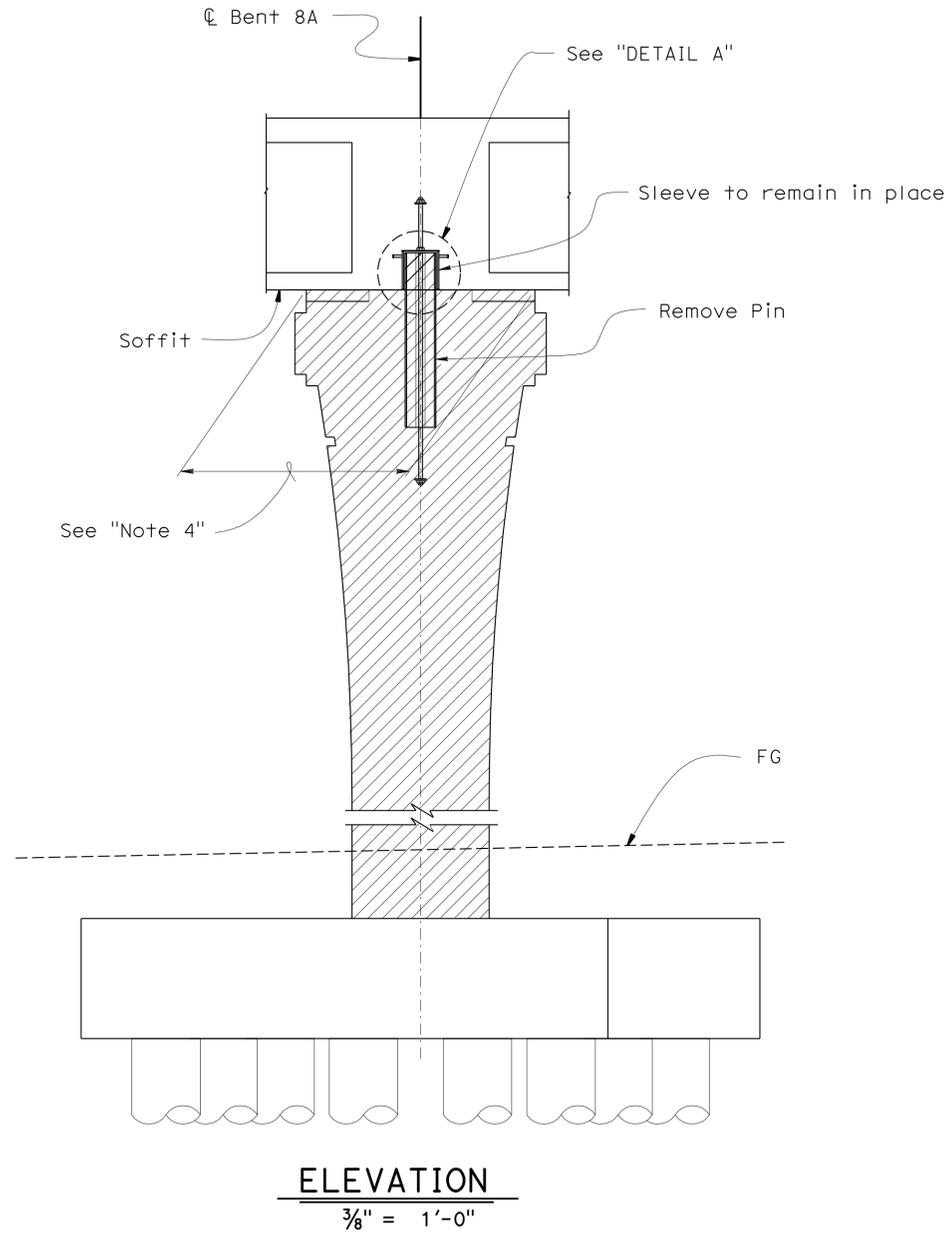
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	927	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12			PLANS APPROVAL DATE		
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COLUMN AT BENT 7, 8A, 8 & 9

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-COLUMN GEOMETRY	
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97		
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07 EA 215931	FILE => 53-3043a-j-ctf1L04.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES			
						REVISION DATES 7-18-09 7-27-09 1-28-10 12-23-10 01-31-11 02-07-11 03-05-11 08-30-11			
						SHEET	25	OF	101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	928	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			PLANS APPROVAL DATE		
<i>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.</i>					



- Note:
1. Temporary Column at Bent 8A to be removed after Permanent Column at Bent 8 is in place and prestressing has been transferred from Temporary PS Cable to Permanent PS Cable, see "OVERCROSSING - GIRDER LAYOUT" sheets.
 2. Temporary Column to be removed, so that the Threaded Rod does not exert a downward force on the Superstructure.
 3. Apply Zinc primer to protect against corrosion, then paint grey.
 4. Limits of repair Soffit surface area.
 5. For Pin Assembly details, see "COLUMN PIN ASSEMBLY DETAIL" for "BENT 8A" on "PIN ASSEMBLY DETAILS NO.1" sheet.

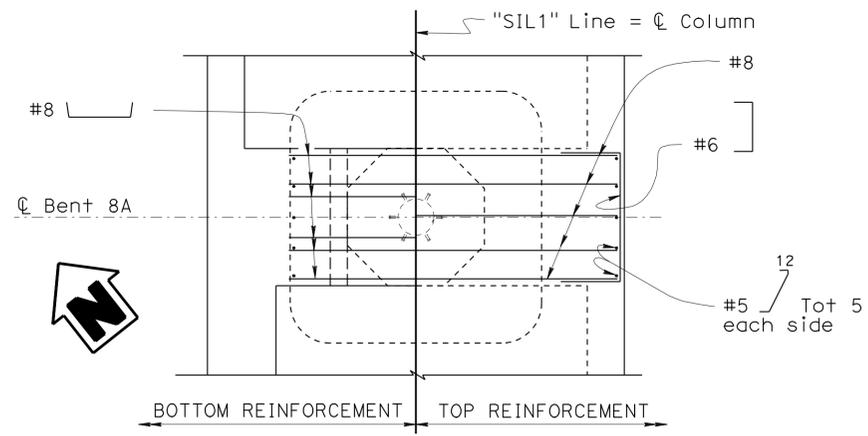
Legend:
 - Indicates Bridge Removal (Portion)

**BENT 8A - TEMPORARY COLUMN REMOVAL
(STAGE 2 CONSTRUCTION)**

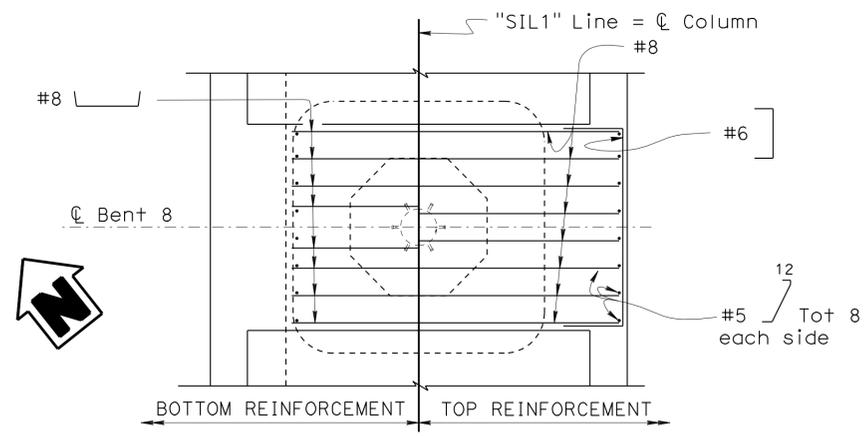
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-COLUMN REMOVAL DETAILS
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	REVISION DATES 5-28-10 03-06-11 08-26-11 10-11-11 02-28-12 02-07-11 03-19-11 06-23-11 07-27-11 08-11-11	SHEET 26 OF 101		

USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:46

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	929	1288
REGISTERED CIVIL ENGINEER		DATE		No.	
Andrew P. Rittenhouse		12-12-11		61006	
PLANS APPROVAL DATE		No.		Exp.	
3-26-12		12-31-12		CIVIL	
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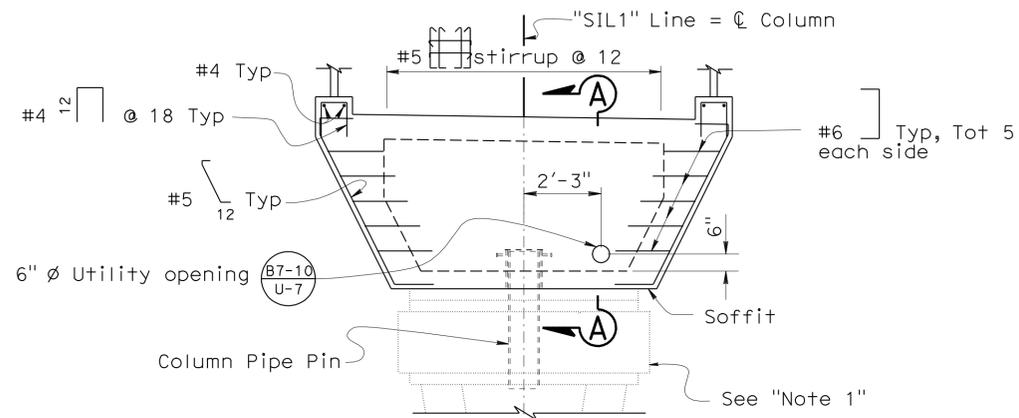


PLAN
3/8" = 1'-0"

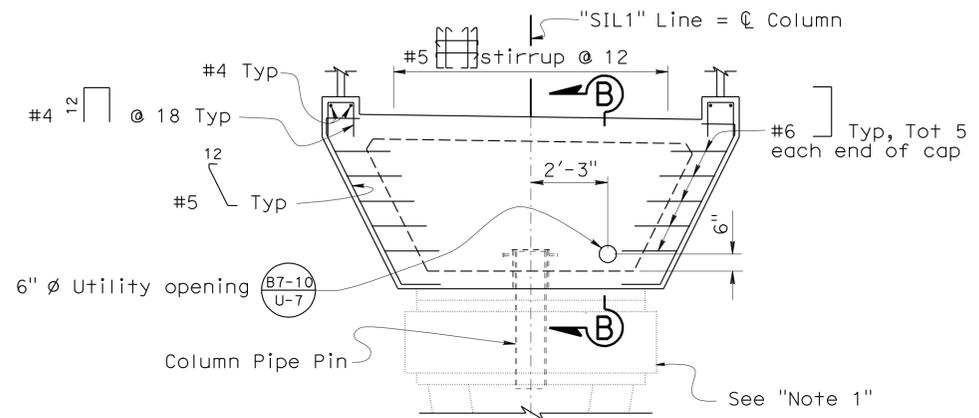


PLAN
3/8" = 1'-0"

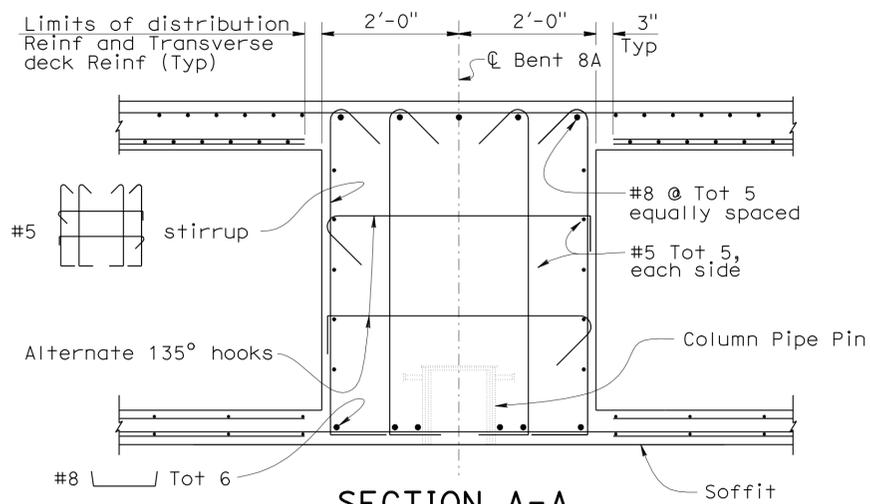
- Notes:
- For Column geometry, see "OVERCROSSING-COLUMN GEOMETRY" sheet. For Column and footing details, see "OVERCROSSING-FOOTING DETAILS", "OVERCROSSING-BENT ELEVATION", and "OVERCROSSING-COLUMN DETAILS" sheets.



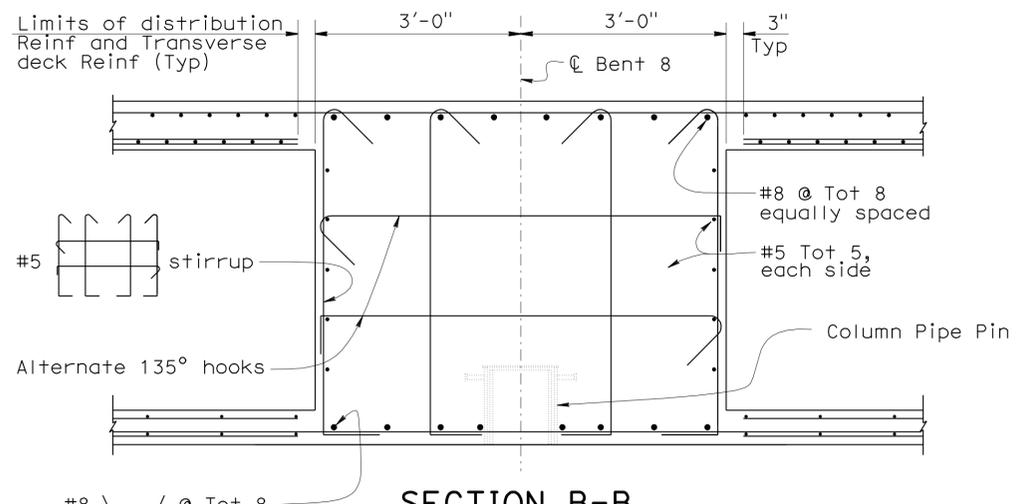
ELEVATION
3/8" = 1'-0"
BENT 8A



ELEVATION
3/8" = 1'-0"
BENT 8



SECTION A-A
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **15**

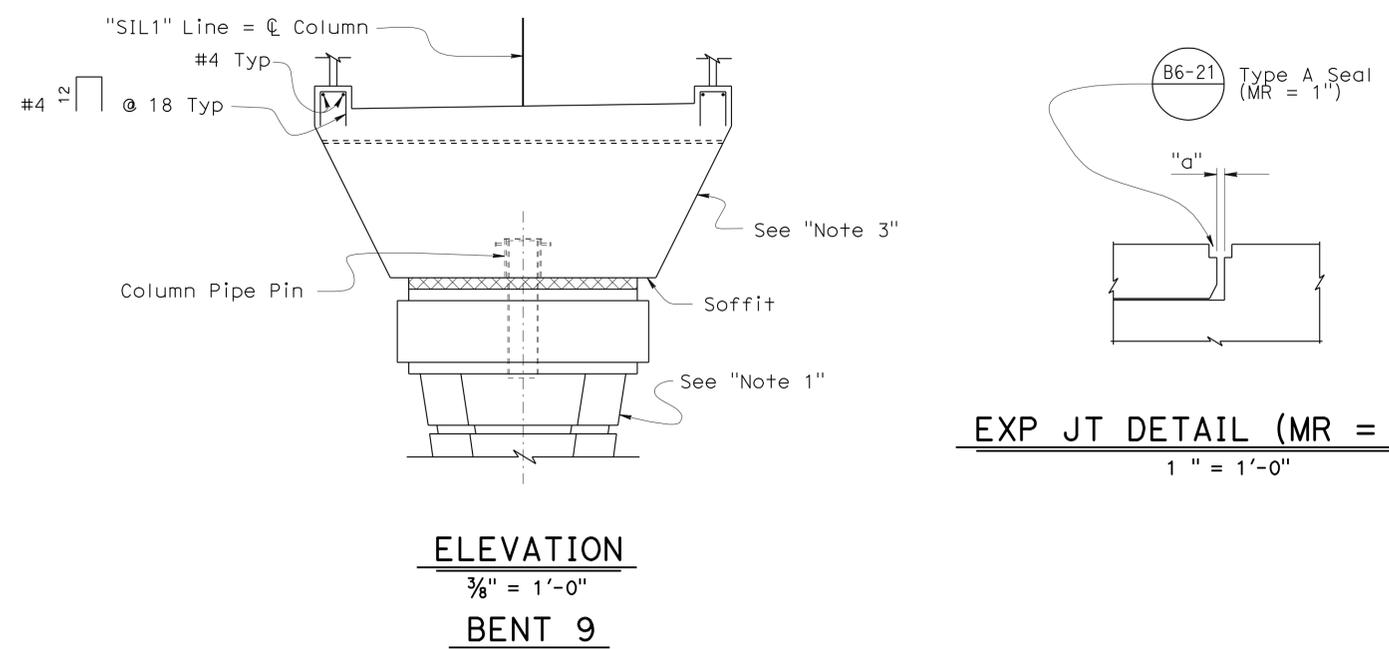
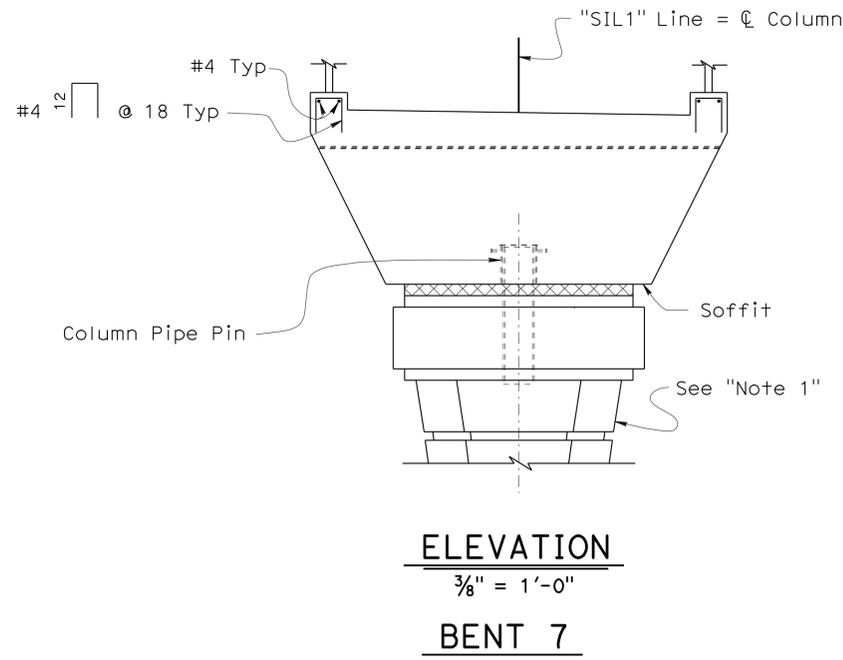
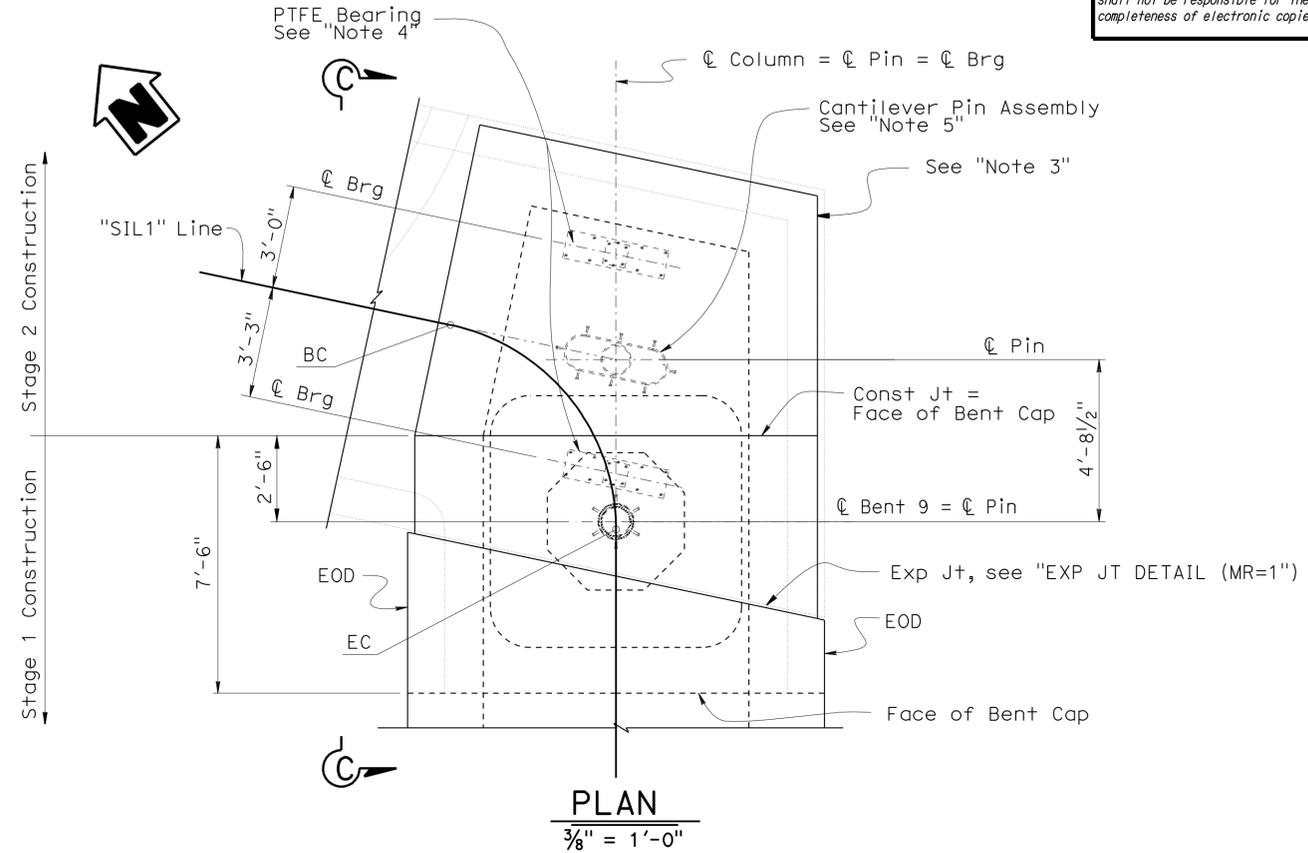
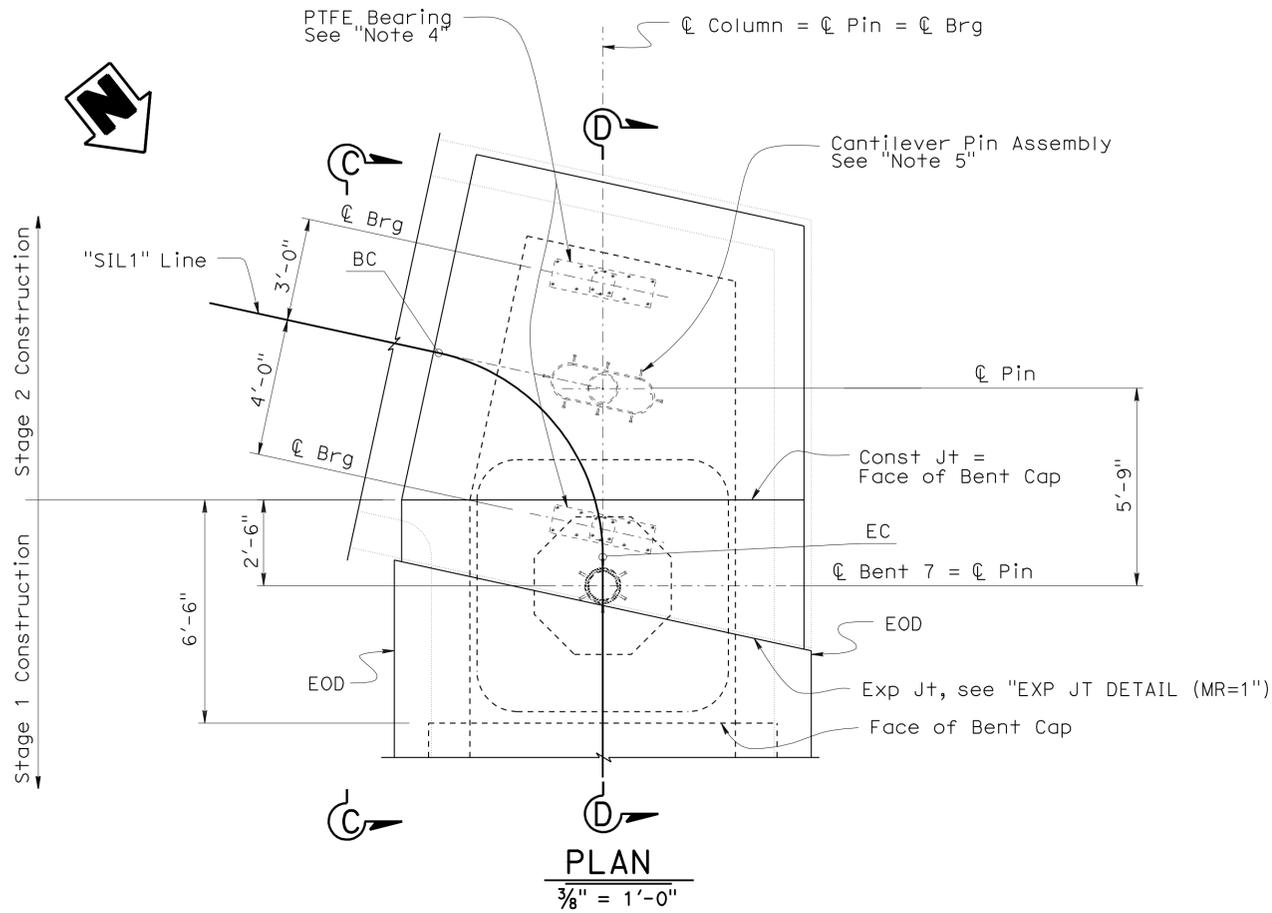
BRIDGE NO.	53-3043
POST MILE	X

SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-BENT CAP DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	930	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			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. For Column geometry, see "OVERCROSSING - COLUMN GEOMETRY" sheet. For Column and footing details, see "OVERCROSSING - FOOTING", "OVERCROSSING - BENT ELEVATIONS, and "OVERCROSSING - COLUMN DETAILS" sheets.
2. For "VIEW C-C and "SECTION D-D", see "OVERCROSSING - BENT CAP DETAILS NO. 3" sheet.
3. For details not shown, see "BENT 7".
4. For details, see "PTFE BEARING DETAILS" sheet.
5. For details, see "PIN ASSEMBLY DETAILS NO.1 and "PIN ASSEMBLY DETAILS NO.2" sheets.



DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

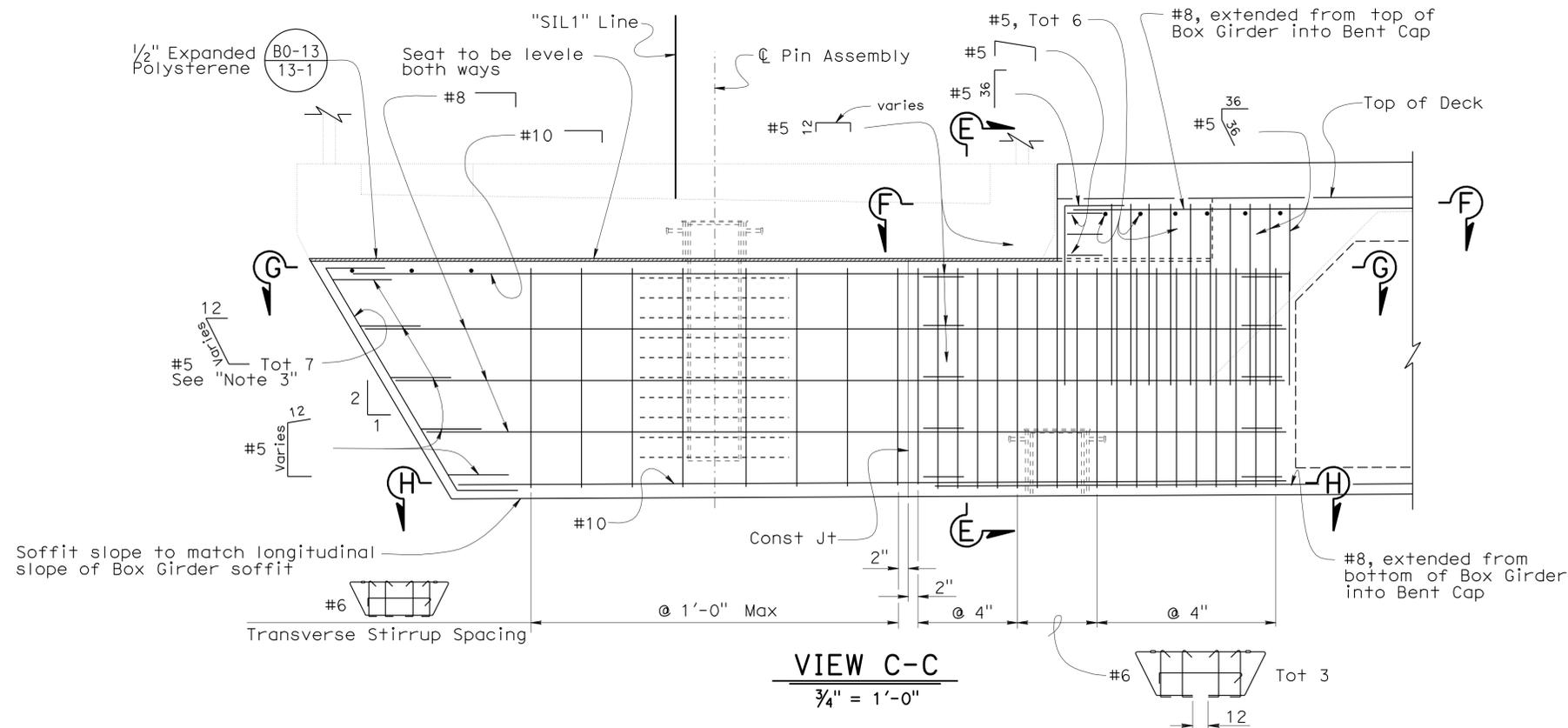
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

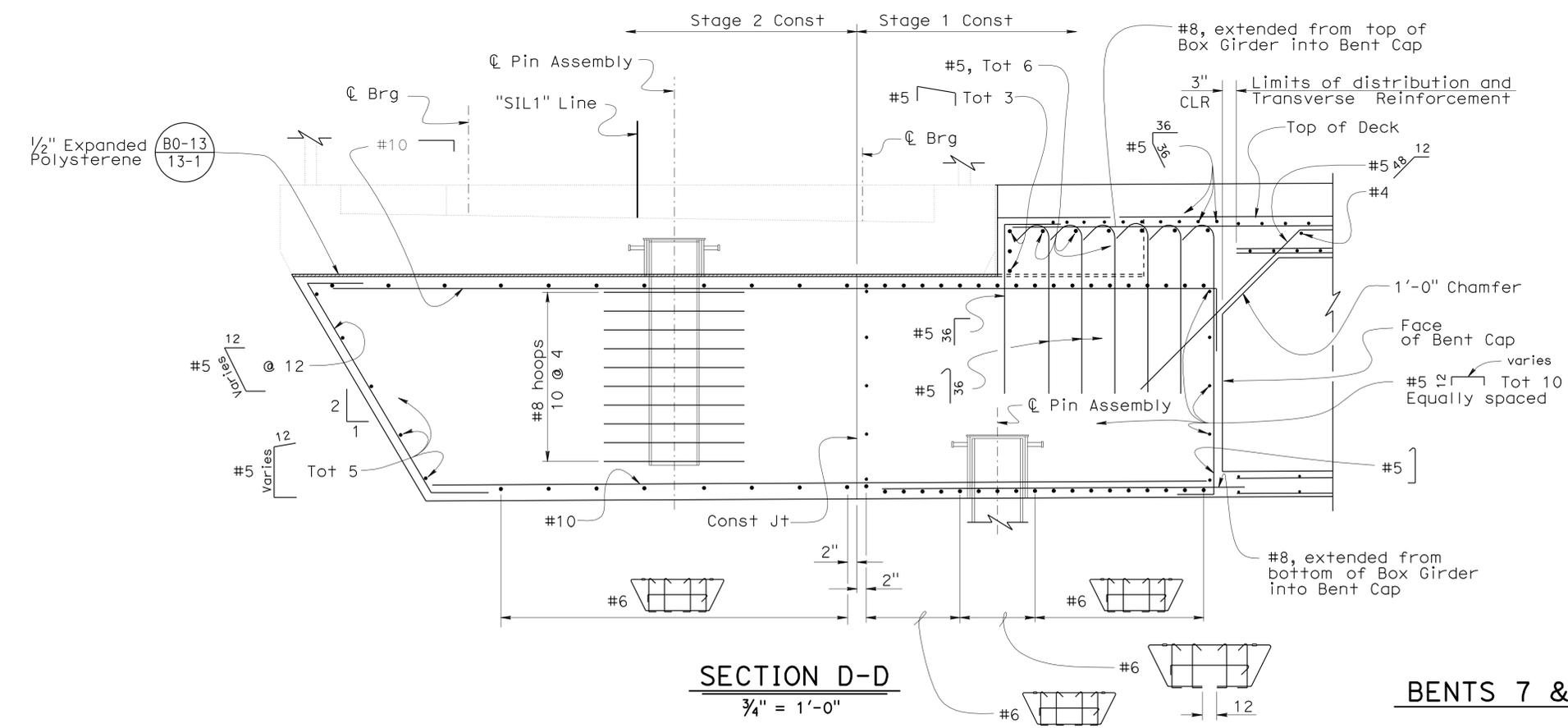
SILVERBOW AVENUE PEDESTRIAN OC
 OVERCROSSING-BENT CAP DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	931	1288
REGISTERED CIVIL ENGINEER			DATE		
Andrew P. Rittenhouse			12-12-11		
PLANS APPROVAL DATE					
3-26-12					
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 Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		



Notes:

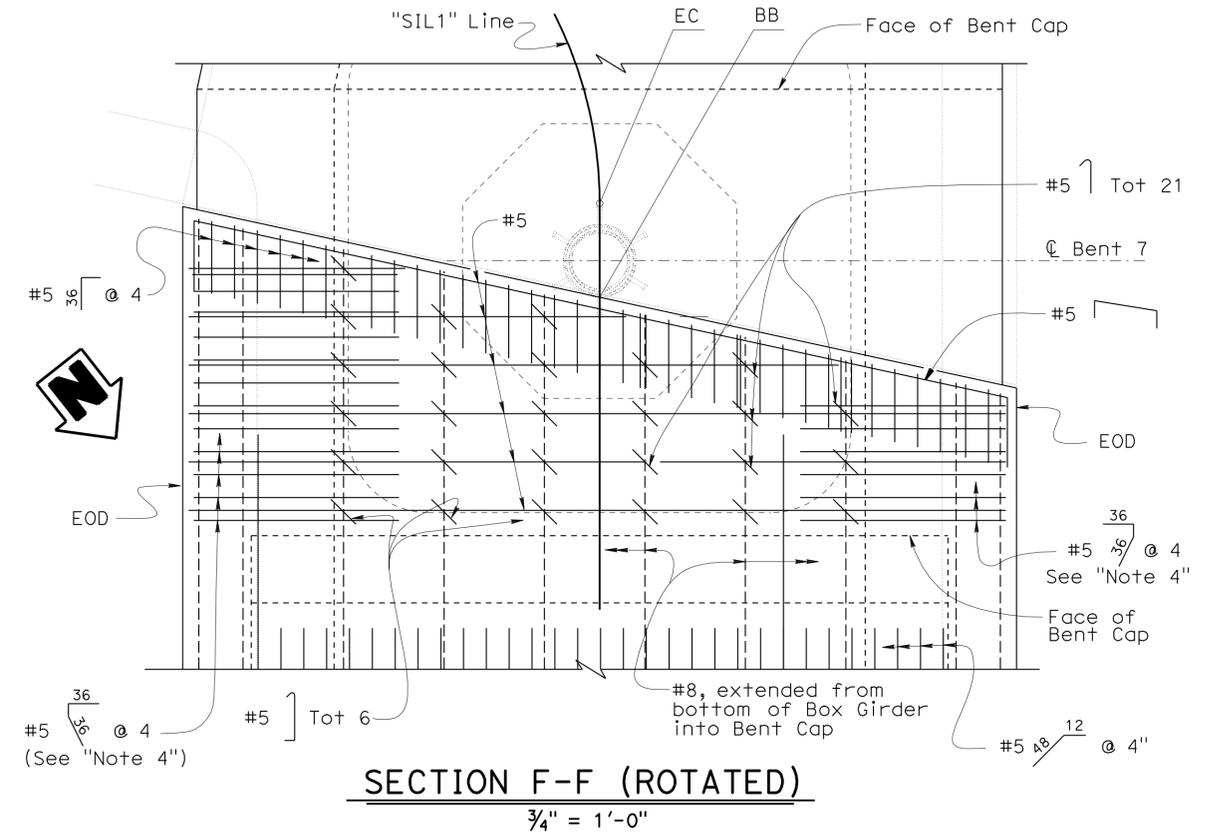
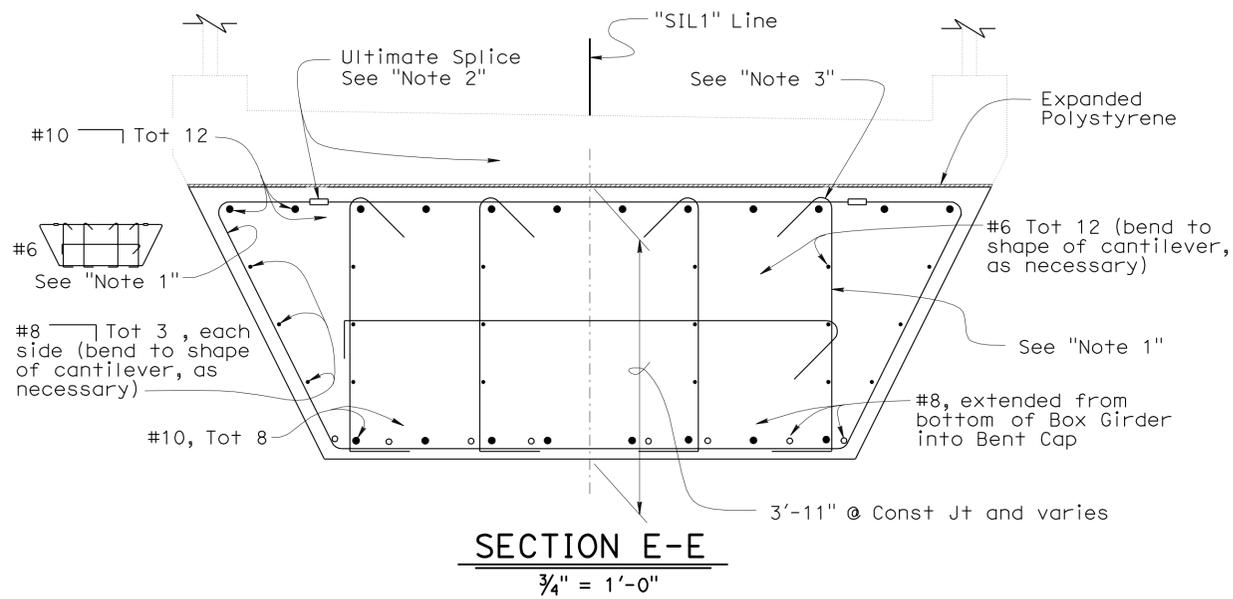
- For details not shown, see "SECTION G-G" and "SECTION H-H" on "OVERCROSSING-BENT CAP DETAILS NO. 5" sheet and **B8-5**.
- Bent 7 details shown, Bent 9 details similar.
- Place exterior bars parallel to side face. Fit bars in between; space evenly.
- For Transverse Stirrup details, see "SECTION E-E" on "OVERCROSSING-BENT CAP DETAILS NO. 4" sheet.



DESIGN	BY	H. Setberg	CHECKED	A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-BENT CAP DETAILS NO. 3								
	DETAILS	BY	S. Cholda	CHECKED			A. Logus	POST MILE		3.97							
	QUANTITIES	BY	T. Trefz	CHECKED			H. Mauroschat										
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES		<table border="1"> <tr> <th colspan="2">REVISION DATES</th> </tr> <tr> <td>05-25-11</td> <td>07-05-11</td> </tr> <tr> <td>07-28-11</td> <td>09-28-11</td> </tr> <tr> <td>10-11-11</td> <td></td> </tr> </table>	REVISION DATES		05-25-11	07-05-11	07-28-11	09-28-11	10-11-11	
REVISION DATES																	
05-25-11	07-05-11																
07-28-11	09-28-11																
10-11-11																	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						0 1 2 3	SHEET 29 OF 101		FILE => 53-3043o-k-bd1L_03.dgn								

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	932	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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BENTS 7 & 9 (B8-5)

Notes:

- Size of stirrup varies with shape of cantilever. Right exterior vertical stirrup tie to be moved in one space as cantilever narrows.
- Exterior perimeter stirrup shall be made continuous by Ultimate Splice.
- Vertical stirrup leg to be hooked around horizontal stirrup leg.
- Eliminate #6  shown in (B8-5 A-A)

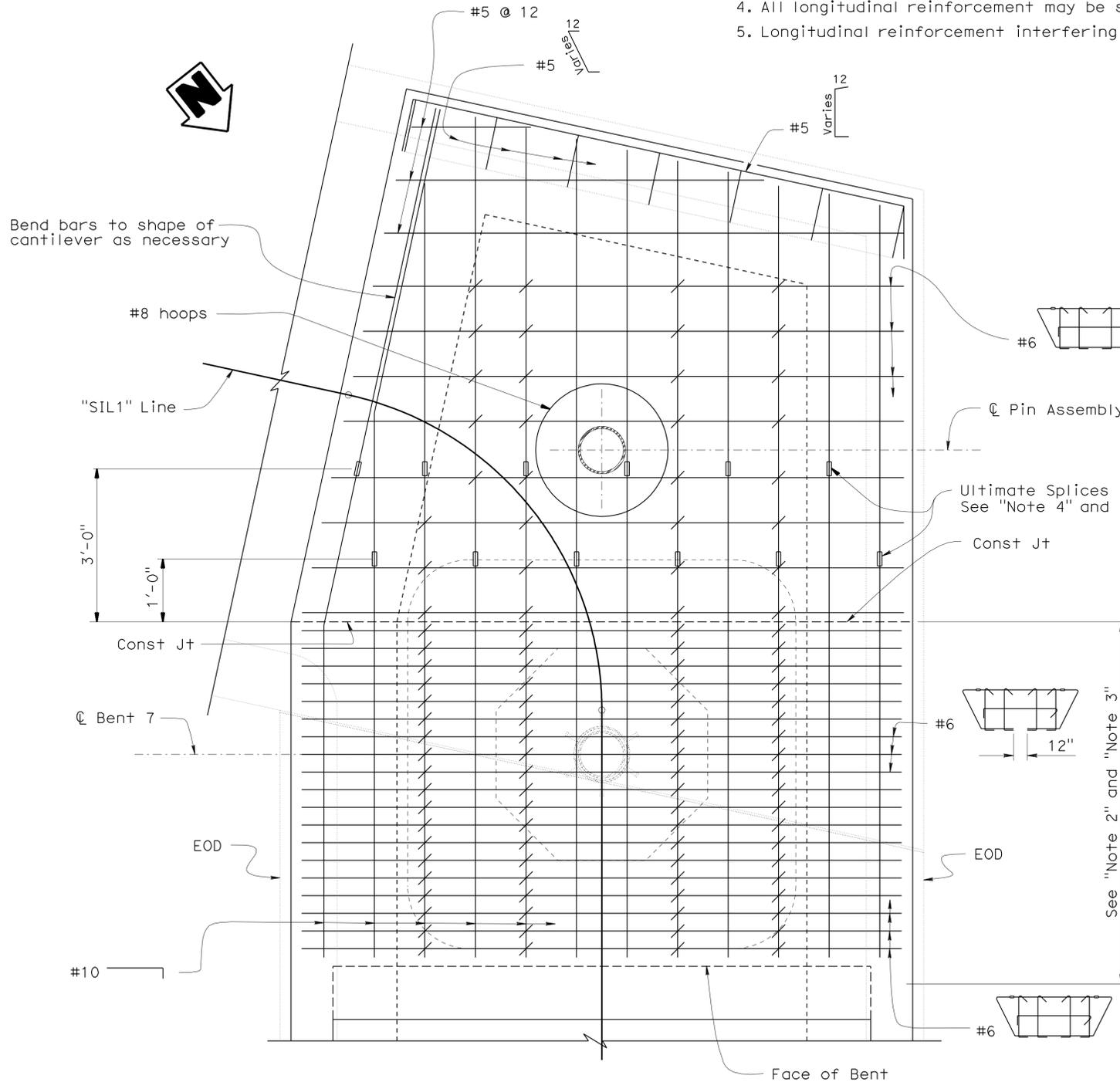
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-BENT CAP DETAILS NO. 4
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			REVISION DATES	05-25-11 07-09-11 07-28-11 08-30-11 09-28-11 10-11-11	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 30	OF 101

USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:46

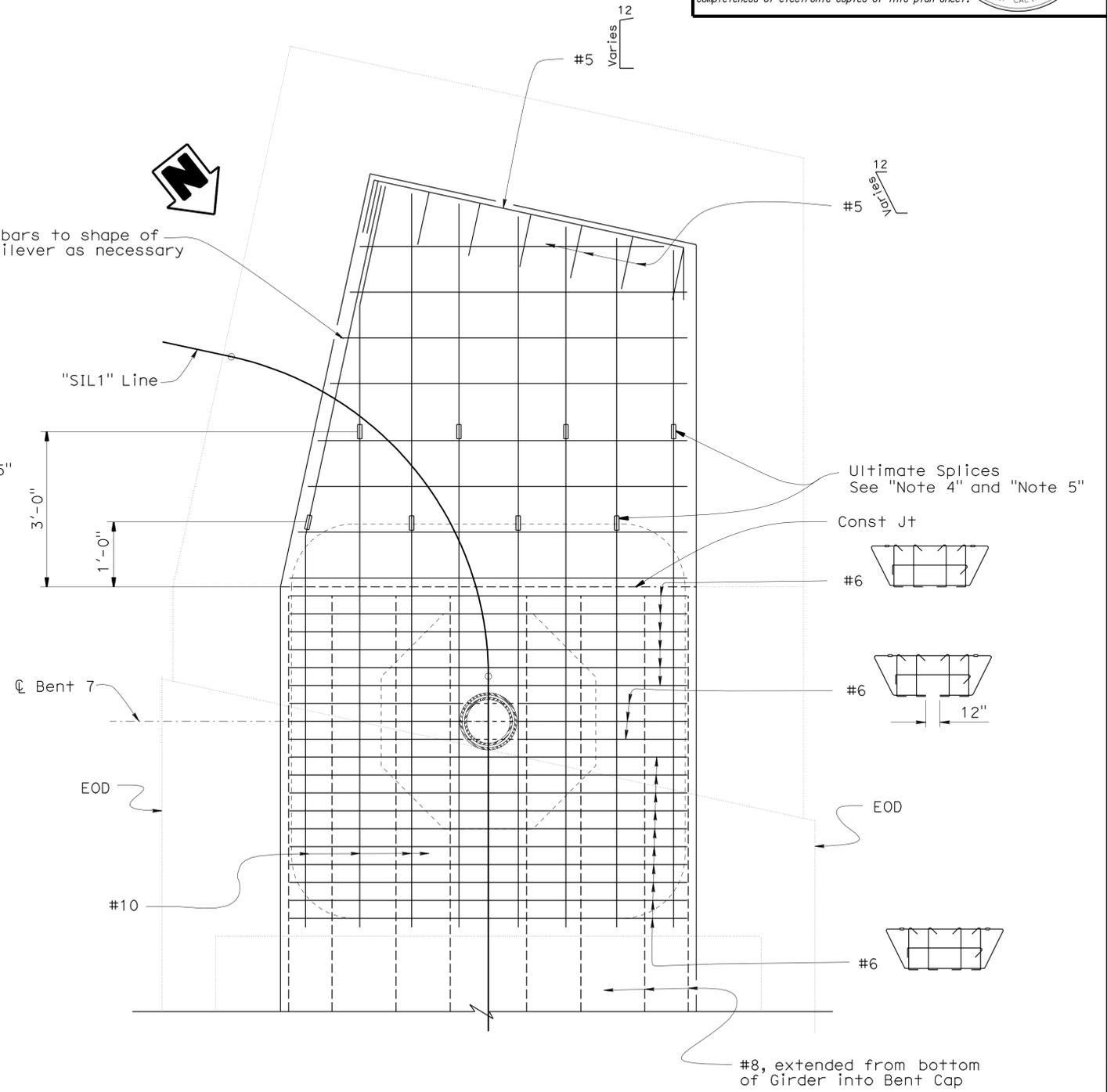
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	933	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

Notes:

- Bent 7 details shown, Bent 9 details similar.
- For additional reinforcement, see 
- Eliminate #6  shown in 
- All longitudinal reinforcement may be spliced using Ultimate Splice. Stagger splices.
- Longitudinal reinforcement interfering with PS operations may be spliced at the Const Jt.



SECTION G-G (ROTATED)
 $\frac{3}{4}'' = 1'-0''$



SECTION H-H (ROTATED)
 $\frac{3}{4}'' = 1'-0''$

BENTS 7 & 9 

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

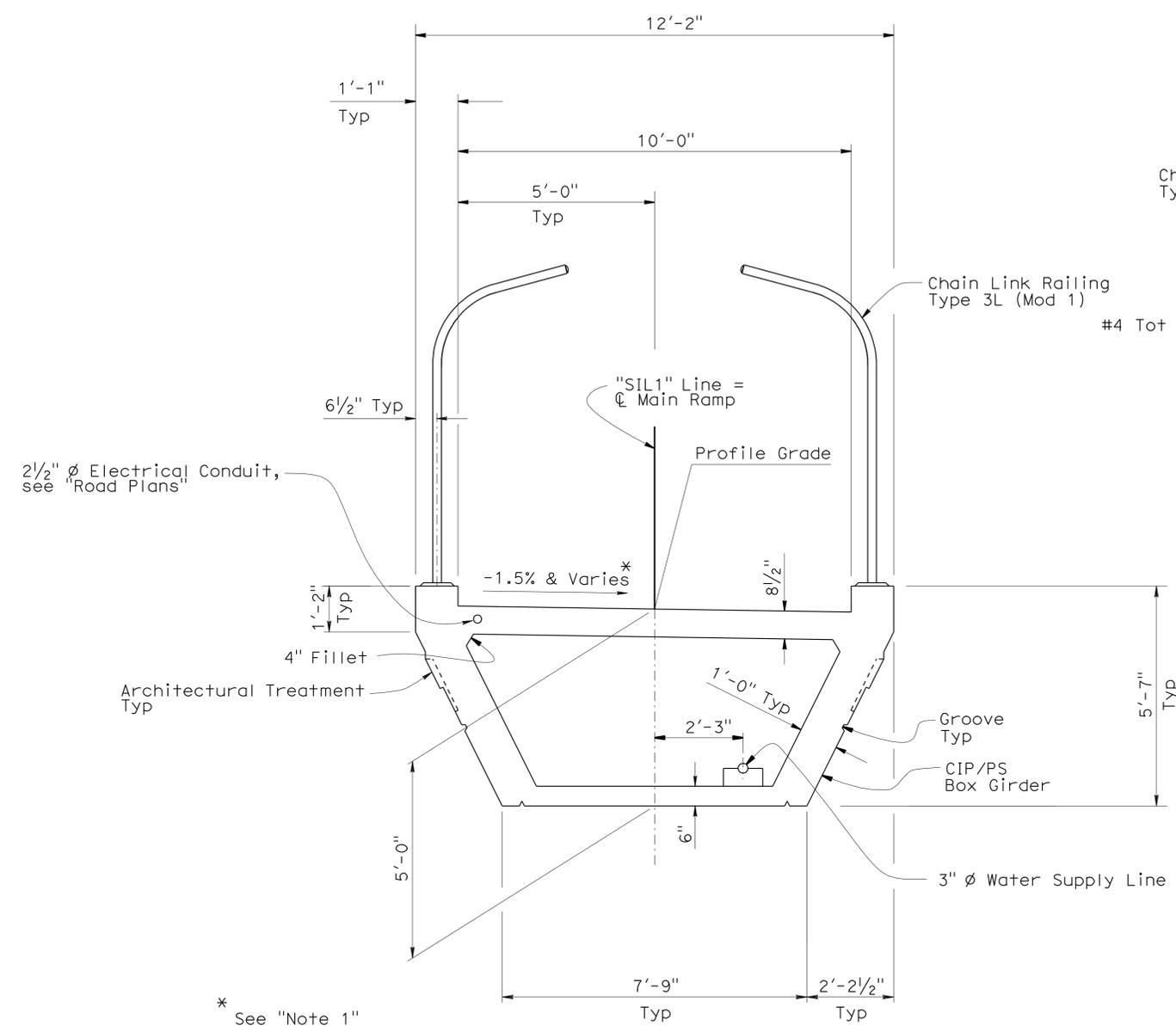
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
 POST MILE 3.97

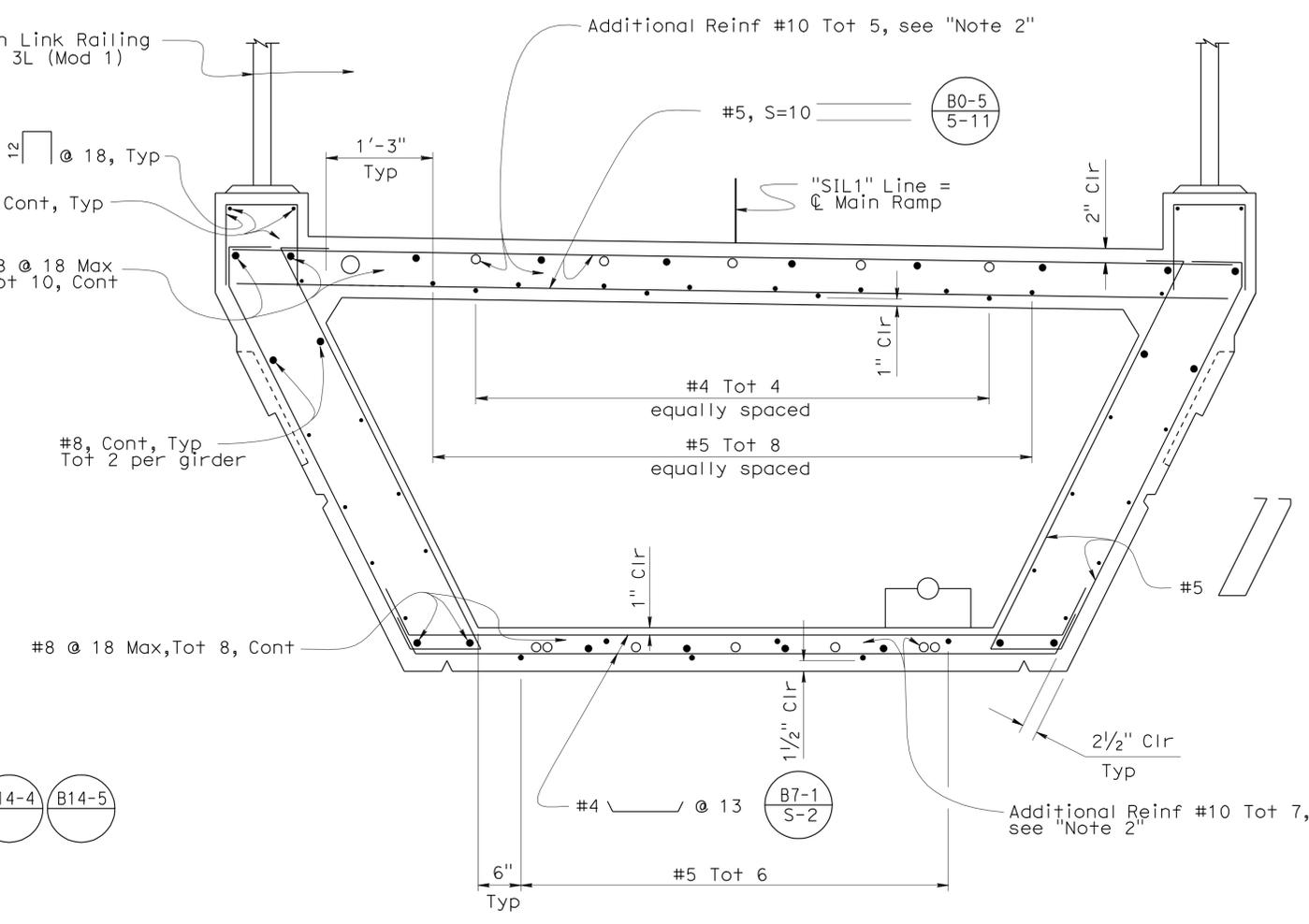
SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-BENT CAP DETAILS NO. 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	934	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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TYPICAL SECTION
 1/2" = 1'-0"
 B14-4 B14-5



PART TYPICAL SECTION
 1" = 1'-0"
 B7-1 B0-5

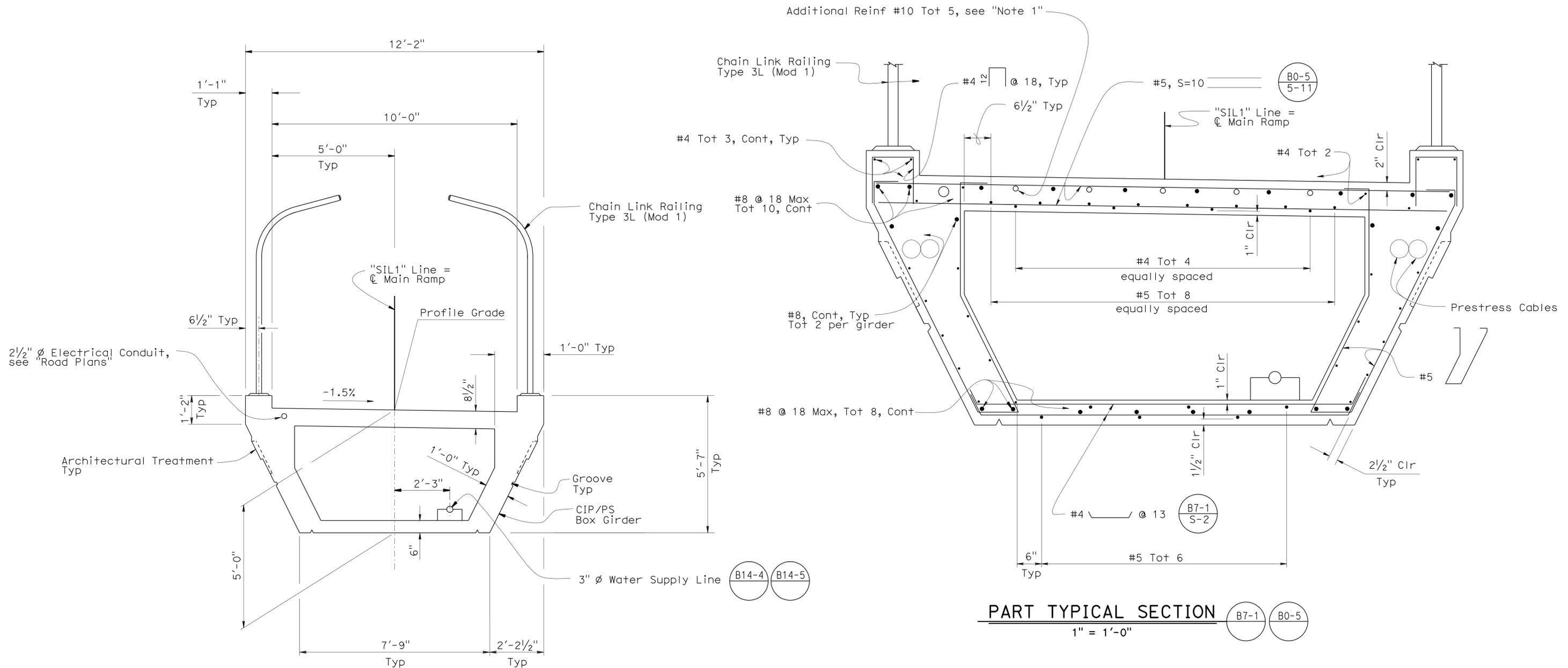
- Notes:
1. For cross slope changes, see "SUPPERELEVATION DIAGRAM" on "INDEX TO PLAN" sheet.
 2. For length of additional Reinf, see "OVERCROSSING - GIRDER REINFORCEMENT" sheet.

TYPICAL SECTION - BENT 7 TO BENT 8A & BENT 8 TO BENT 9

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-TYPICAL SECTION NO. 1
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			REVISION DATES	7-15-09 1-26-11 8-17-11 09-28-11 09-28-11 01-24-12 03-18-11 03-26-11 05-21-11 07-14-11	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 32 OF 101		

USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	935	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
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TYPICAL SECTION (B14-4) (B14-5)
1/2" = 1'-0"

PART TYPICAL SECTION (B7-1) (B0-5)
1" = 1'-0"

Notes:
1. For length of additional Reinf, see "OVERCROSSING - GIRDER REINFORCEMENT" sheet.

TYPICAL SECTION - BENT 8A TO BENT 8

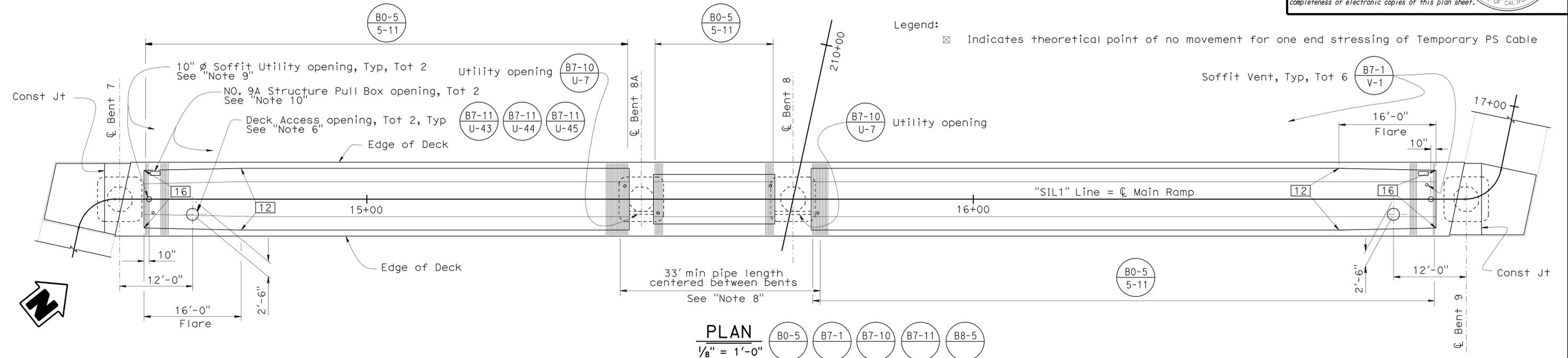
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-TYPICAL SECTION NO. 2
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97	
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 33 OF 101		

USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:47

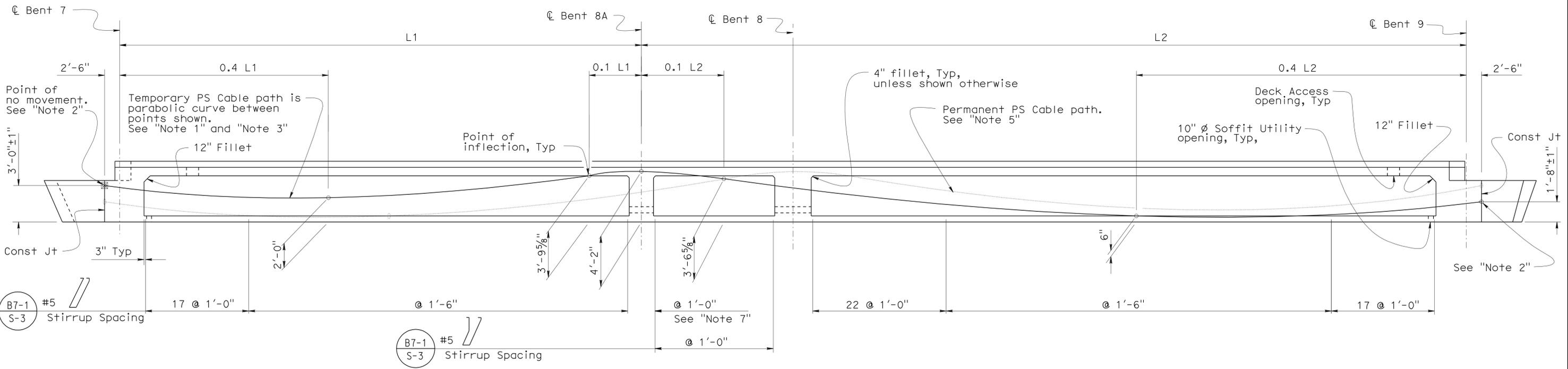
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	936	1288
Andrew P. Rittenhouse REGISTERED CIVIL ENGINEER DATE 12-12-11					
3-26-12			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

- Notes:
1. Temporary PS Cable is unbonded and non-grouted.
 2. Temporary PS Cable and anchors to be protected against corrosion.
 3. Temporary PS Cable to be removed during Stage 2 construction and duct to be filled with grout.
 4. For PS notes, see "OVERCROSSING-GIRDER LAYOUT NO. 2" sheet.
 5. Permanent PS Cable path shown in dim line for clarity. For Permanent PS Cable path information, see "OVERCROSSING-GIRDER LAYOUT NO. 2" sheet.

6. Place ladder on inside face of girder.
7. Place girder stirrups through Bent Cap at Bent 8A.
8. No splices or joints allowed in Water Supply Line between bent caps.
9. See "OVERCROSSING - MISCELLANEOUS DETAILS" sheet. Run Water Supply Line and Electrical conduit through this opening and down the column.
10. For Pull Box Utility opening detail see "OVERCROSSING - MISCELLANEOUS DETAILS" sheet.



Legend: Indicates theoretical point of no movement for one end stressing of Temporary PS Cable



LONGITUDINAL SECTION - TEMPORARY PS CABLE (B7-1) (B8-5)
 Horiz 1/8" = 1'-0"
 Vert 1/4" = 1'-0"

DESIGN BY H. Setberg DETAILS BY S. Cholda QUANTITIES BY T. Trefz	CHECKED A. Logus CHECKED A. Logus CHECKED H. Mauroschat	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO. 53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-GIRDER LAYOUT NO. 1
				POST MILE 3.97	
				DISREGARD PRINTS BEARING EARLIER REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				CU 07 EA 215931	REVISION DATES 7-20-10 12-02-10 02-07-11 03-24-11 05-19-11 06-24-11 07-14-11 10-14-11 01-03-12 01-06-12
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)					SHEET 34 OF 101

PRESTRESSING NOTES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	937	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE

3-26-12
 PLANS APPROVAL DATE

Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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TEMPORARY PS CABLE (STAGE X)

270 ksi Low Relaxation Strand:
(unbonded and non-grouted)

P_{jack} = 2250 kips
 Anchor Set = $\frac{3}{8}$ in
 Total Number of Girders = 2

One end stressing shall be performed from Bent 9
 Prestress force (P_{jack}) between
 girders shall be distributed evenly.
 Maximum final force variation between girders
 shall not exceed 40 kips.

Concrete: f'_c = 6 ksi @ 28 days
 f'_{ci} = 3.5 ksi @ time of stressing

Contractor shall submit elongation calculations
 based on initial stress at
 $\alpha = 0.897$ times jacking stress.

PERMANENT PS CABLE (STAGE Y)

270 ksi Low Relaxation Strand:
(Bonded and grouted)

P_{jack} = 1700 kips
 Anchor Set = $\frac{3}{8}$ in
 Total Number of Girders = 2

One end stressing shall be performed from Bent 7
 Prestress force (P_{jack}) between
 girders shall be distributed evenly.
 Maximum final force variation between girders
 shall not exceed 40 kips.

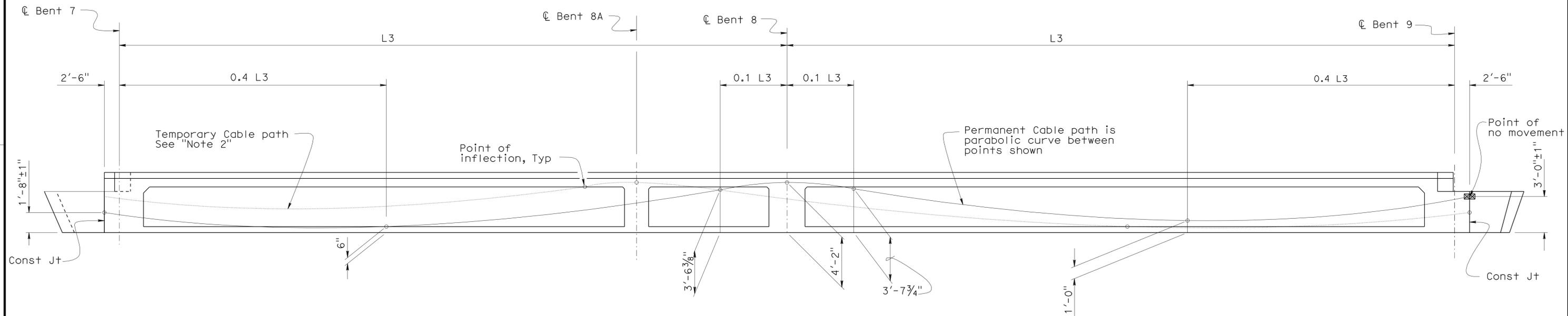
Concrete: f'_c = 6 ksi @ 28 days
 f'_{ci} = 6 ksi @ time of stressing

Contractor shall submit elongation calculations
 based on initial stress at
 $\alpha = 0.884$ times jacking stress.

TRANSITION STRESSING SEQUENCE

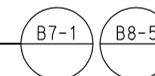
See "Note 1"

P_{jack}	Temporary PS Cable	Permanent PS Cable
Initial Condition	2250 kips	0 kips
Step 1	2250 kips	1700 kips
Step 2	0 kips	1700 kips



LONGITUDINAL SECTION - PERMANENT PS CABLE

Horiz $\frac{1}{8}'' = 1'-0''$
 Vert $\frac{1}{4}'' = 1'-0''$



Legend:

- Indicates theoretical point of no movement for one end stressing of Temporary PS Cable
- Indicates theoretical point of no movement for one end stressing of Permanent PS Cable

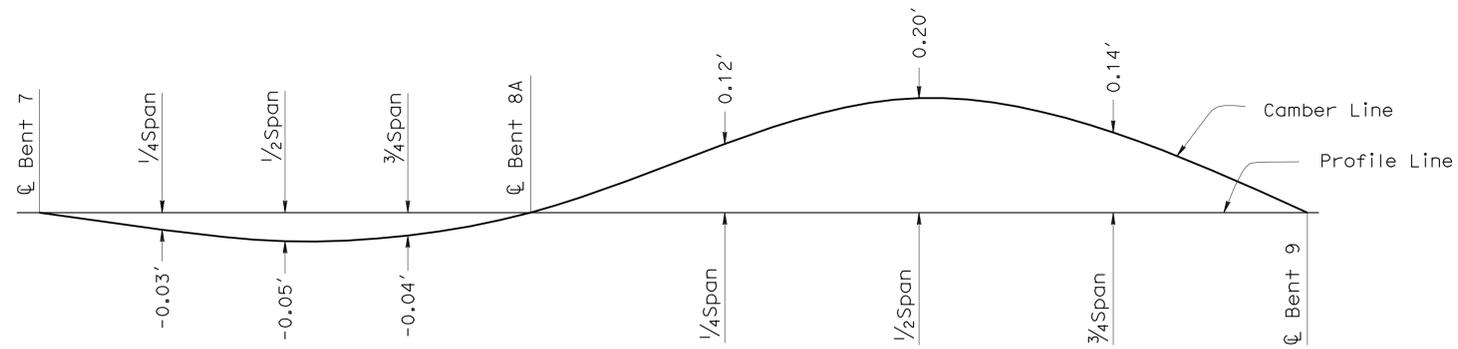
Notes:

1. The Columns at Bent 8A and Bent 8 must be in place during the transition from the Temporary PS Cable to the Permanent PS Cable. For stressing sequence during the transition, see "TRANSITION STRESSING SEQUENCE" table.
2. Temporary PS Cable path shown in dim line for clarity. For Temporary PS Cable path information see "OVERCROSSING-GIRDER LAYOUT NO. 1" sheet.

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGN</td> <td style="width: 30%;">BY H. Setberg</td> <td style="width: 40%;">CHECKED A. Logus</td> </tr> <tr> <td>DETAILS</td> <td>BY S. Cholda</td> <td>CHECKED A. Logus</td> </tr> <tr> <td>QUANTITIES</td> <td>BY T. Trefz</td> <td>CHECKED H. Mauroschat</td> </tr> </table>	DESIGN	BY H. Setberg	CHECKED A. Logus	DETAILS	BY S. Cholda	CHECKED A. Logus	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO. 53-3043 POST MILE 3.97	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-GIRDER LAYOUT NO. 2
DESIGN	BY H. Setberg	CHECKED A. Logus											
DETAILS	BY S. Cholda	CHECKED A. Logus											
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat											
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES									
			REVISION DATES	SHEET 35 OF 101									

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	938	1288

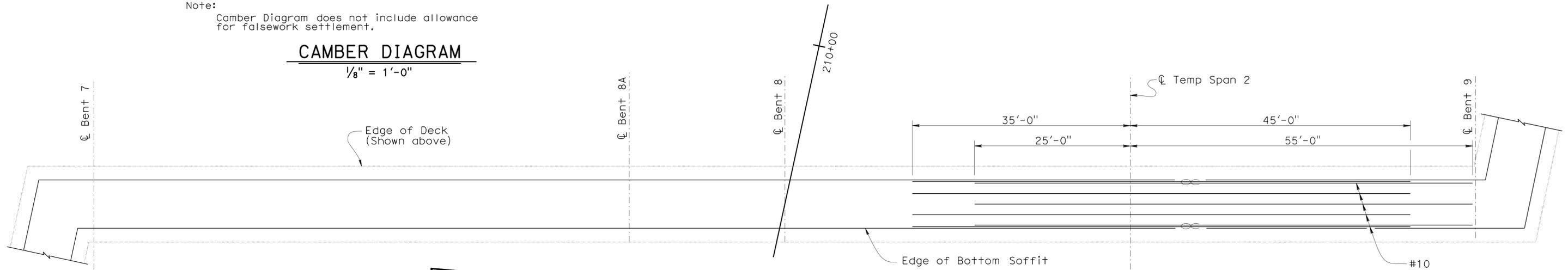
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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Legend: ∞ Indicates bundled bars

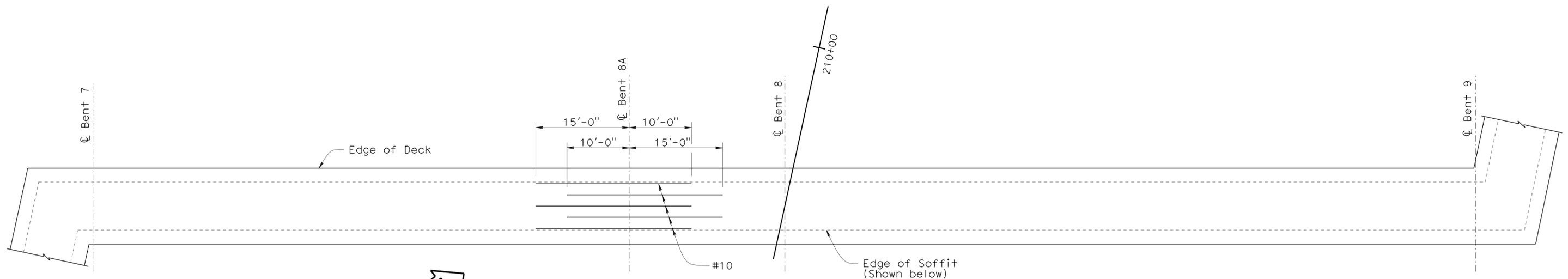
CAMBER DIAGRAM

1/8" = 1'-0"



BOTTOM ADDITIONAL LONGITUDINAL REINFORCEMENT

1/8" = 1'-0"



TOP ADDITIONAL LONGITUDINAL REINFORCEMENT

1/8" = 1'-0"

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

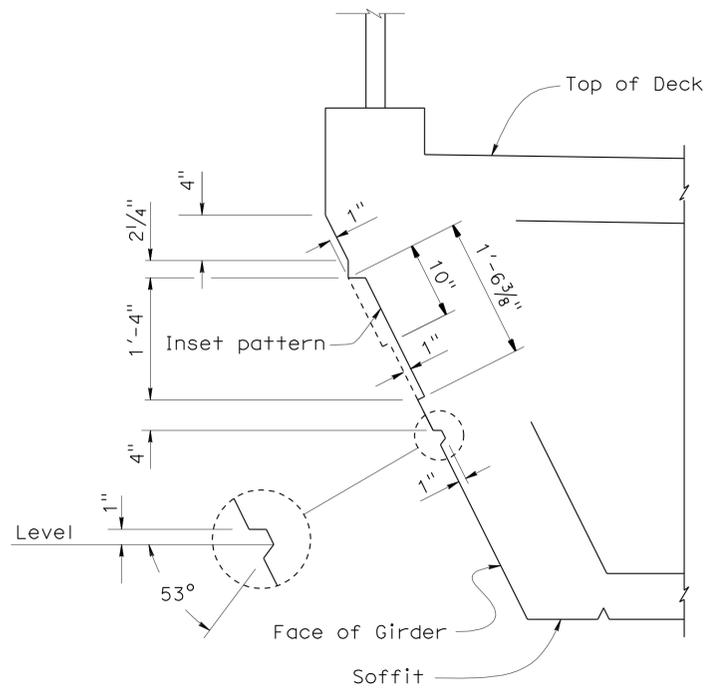
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

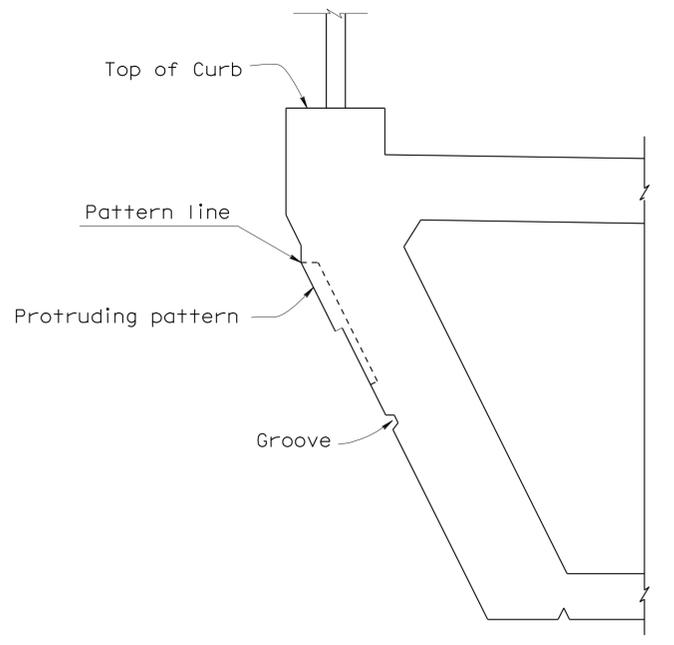
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 OVERCROSSING-GIRDER REINFORCEMENT

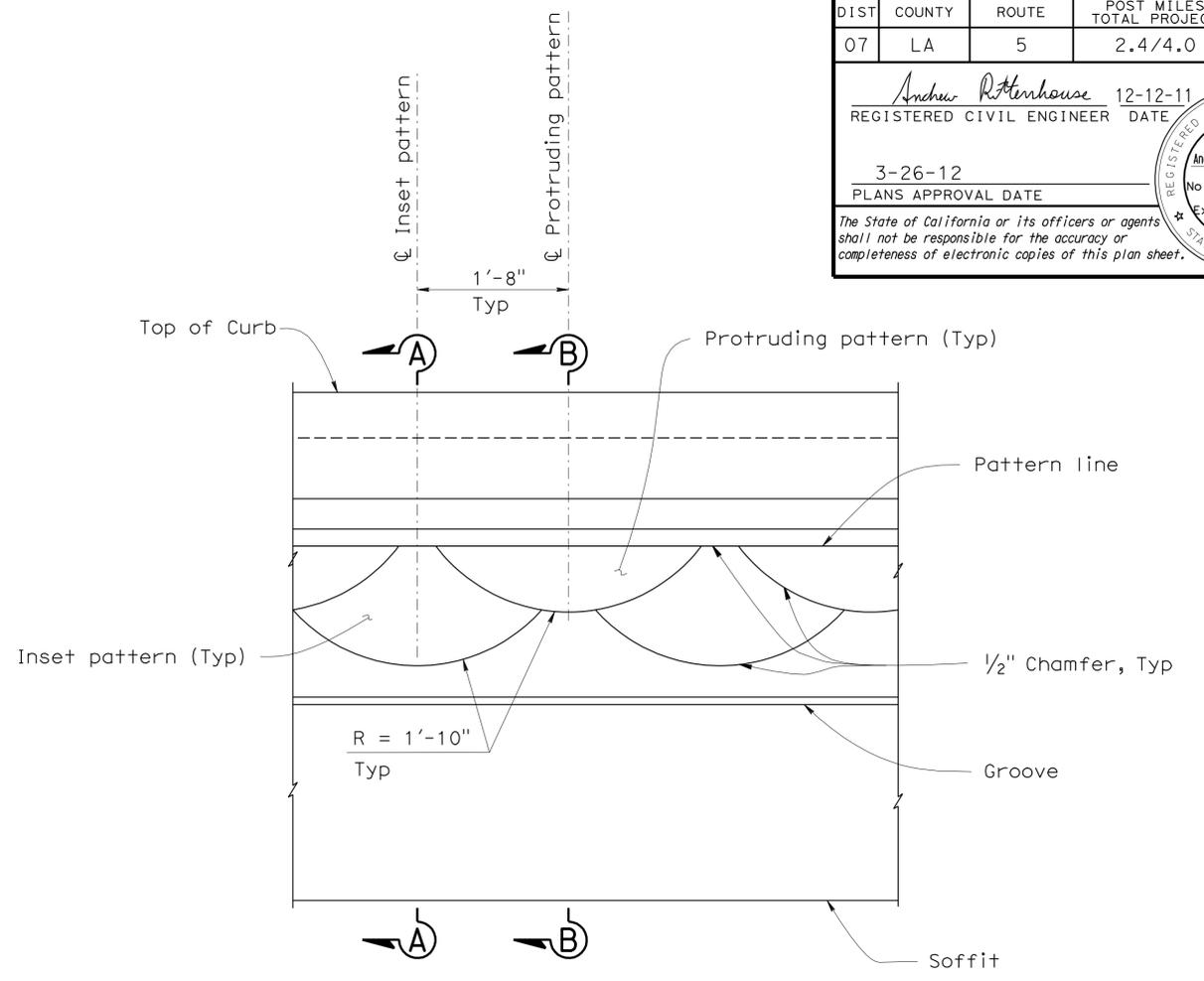
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	939	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12 PLANS APPROVAL DATE					
Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



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

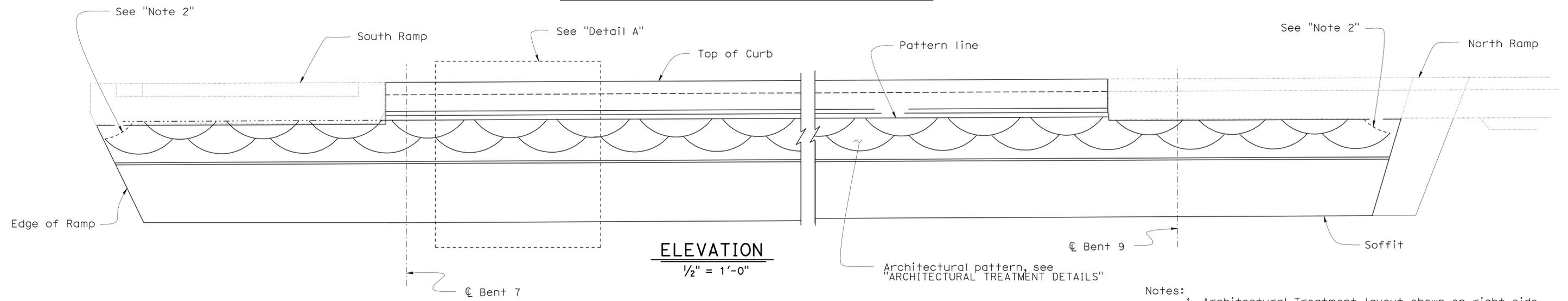


SECTION B-B
1" = 1'-0"



DETAIL A
1" = 1'-0"

ARCHITECTURAL TREATMENT DETAILS



ELEVATION
1/2" = 1'-0"

ARCHITECTURAL TREATMENT LAYOUT

- Notes:
1. Architectural Treatment layout shown on right side of Main Ramp. Layout on the left side similar.
 2. Eliminate Protruding pattern for smooth edge of Face of Girder. Surface even with face of Girder.

DESIGN	BY H. Setberg	CHECKED A. Logus
DETAILS	BY S. Cholda	CHECKED A. Logus
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

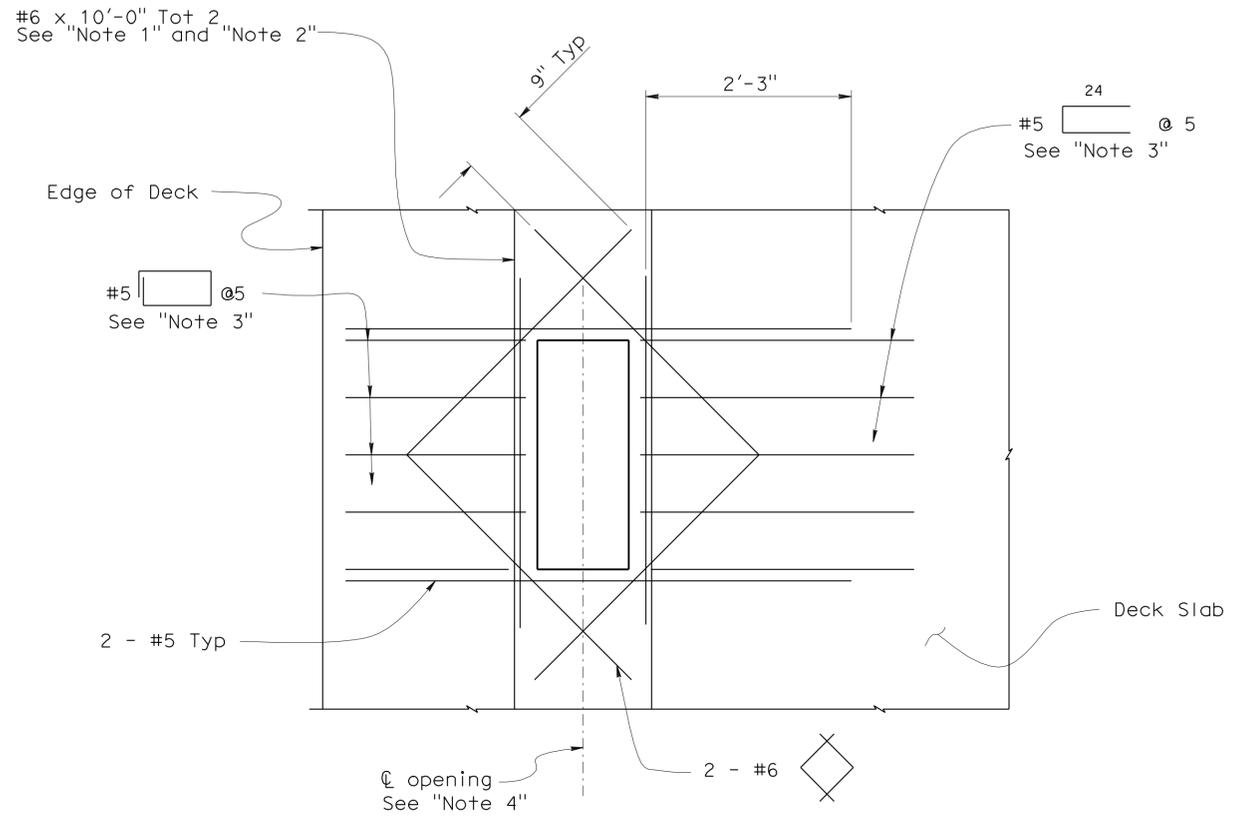
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
POST MILE 3.97

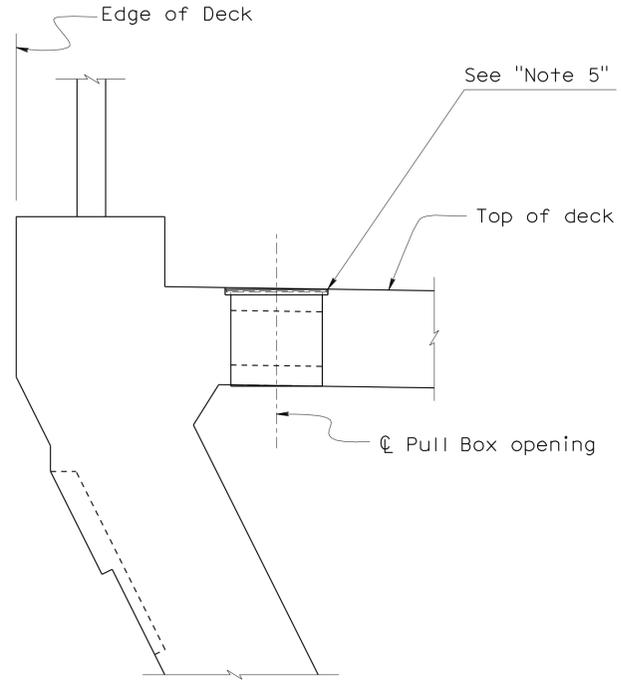
SILVERBOW AVENUE PEDESTRIAN OC
OVERCROSSING-ARCHITECTURAL TREATMENT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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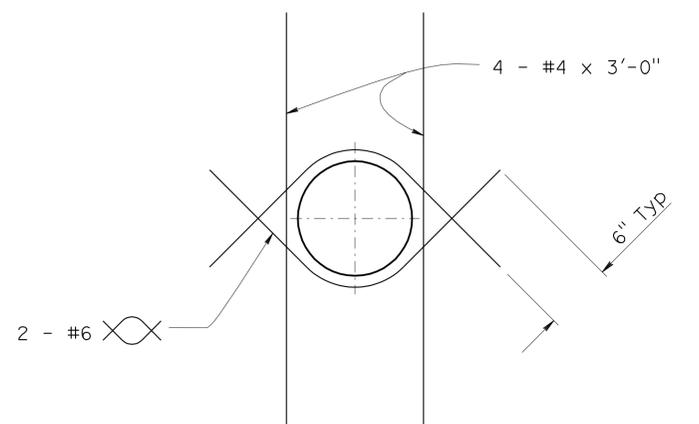
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PART PLAN
1/2" = 1'-0"



PART ELEVATION
1/2" = 1'-0"



PART PLAN
1/2" = 1'-0"
SOFFIT UTILITY OPENING DETAIL

PULL BOX UTILITY OPENING

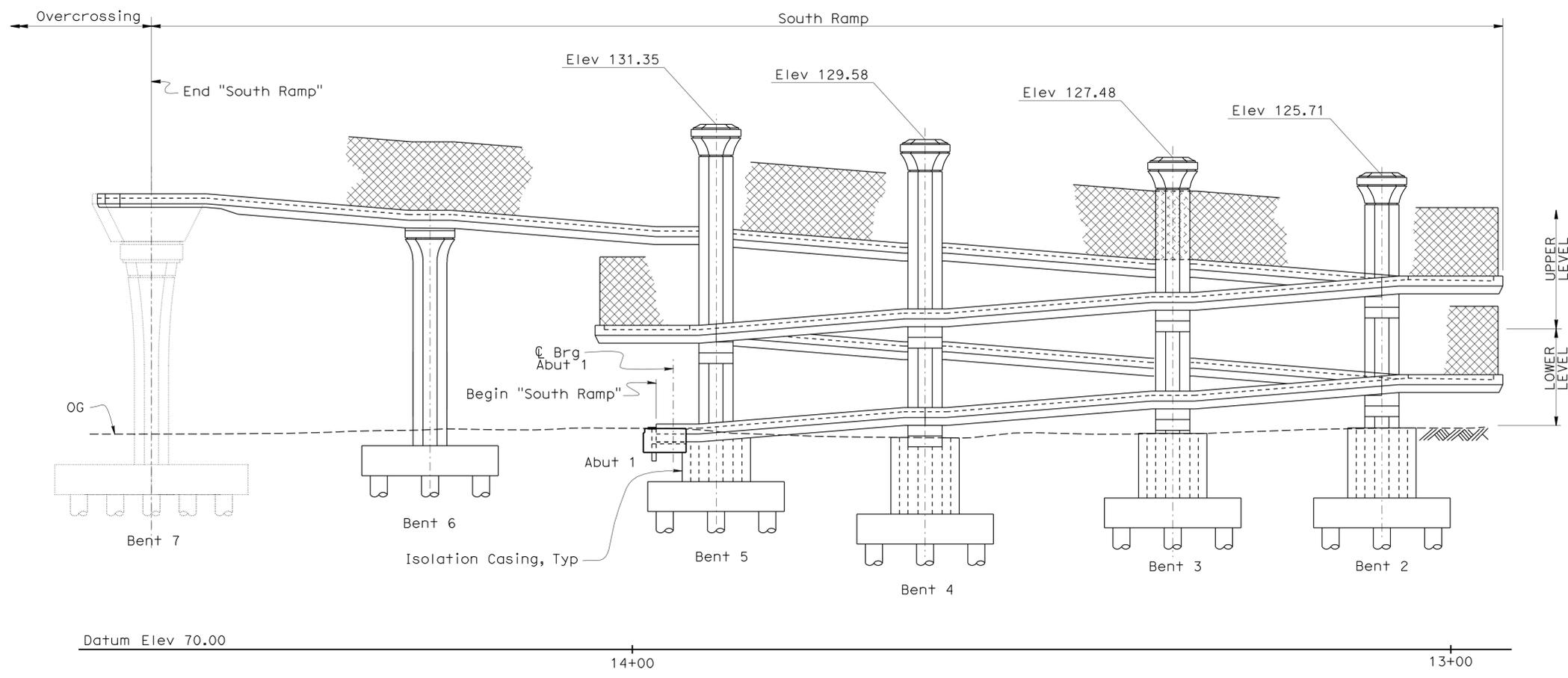
- Notes:
1. Replace each longitudinal bar cut by the opening with two of these bars, one on each side of the opening
 2. #8 Cont longitudinal bars may not be cut by opening.
 3. Place at location of cut top and bottom transverse deck bars.
 4. The exact location of the opening shall be in accordance with the "Road Plans" or as directed by the Engineer.
 5. Top of Pull Box cover to be flush with top of deck. Drain Pull Box inside Box Girder.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED A. Logus	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC OVERCROSSING-MISCELLANEOUS DETAILS																	
	DETAILS	BY S. Cholda	CHECKED A. Logus			POST MILE	3.97																		
	QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat																						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS					0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="8">REVISION DATES</th> </tr> <tr> <td>5-28-10</td> <td>7-28-10</td> <td>12-23-10</td> <td>01-11-11</td> <td>01-21-11</td> <td>02-07-11</td> <td>03-19-11</td> <td>07-26-11</td> </tr> </table>	REVISION DATES								5-28-10	7-28-10	12-23-10	01-11-11	01-21-11	02-07-11	03-19-11	07-26-11	SHEET 38 OF 101
REVISION DATES																									
5-28-10	7-28-10	12-23-10	01-11-11	01-21-11	02-07-11	03-19-11	07-26-11																		

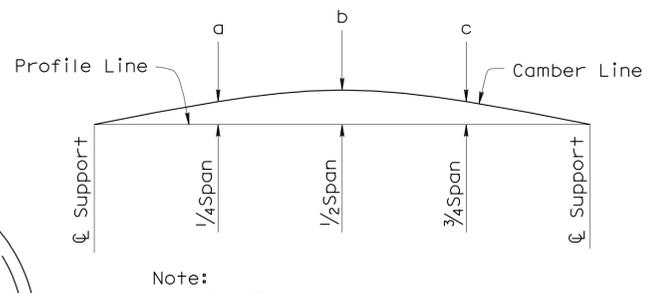
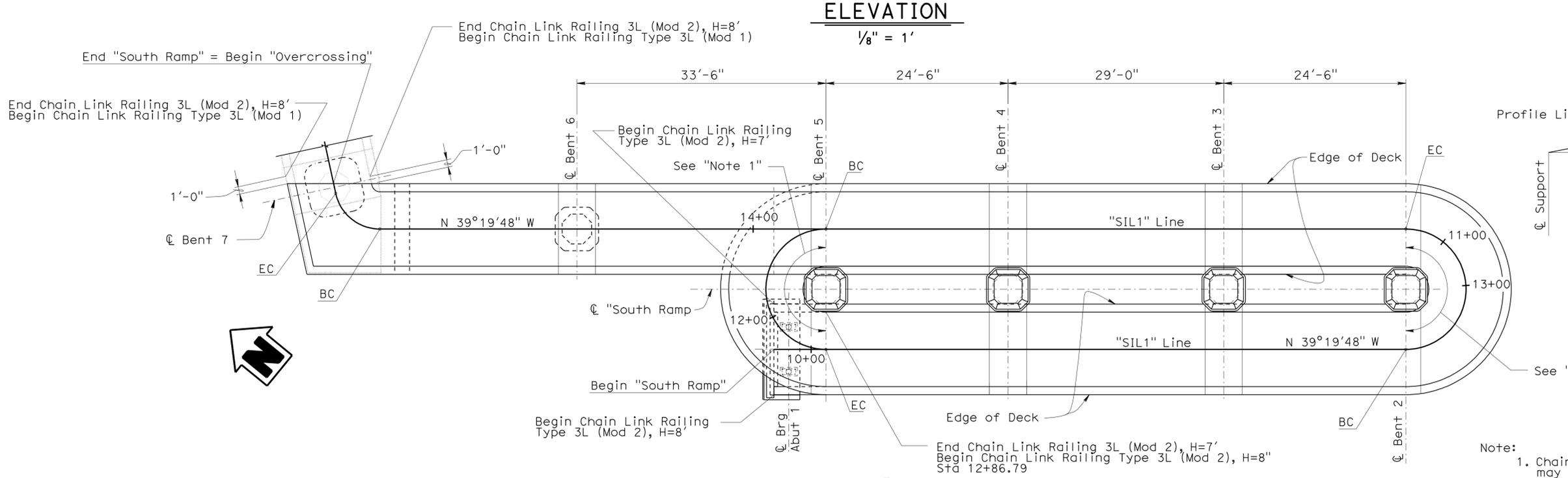
USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	941	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



Span	Camber (ft)		
	a	b	c
Abut 1 to 4A	0.05	0.07	0.05
4A to 3A	0.02	0.03	0.02
3A to 2A	0.00	0.01	0.01
2B to 3B	0.01	0.01	0.01
3B to 4B	0.01	0.01	0.01
4B to 5A	0.01	0.02	0.01
5B to 4C	0.01	0.01	0.01
4C to 3C	0.01	0.01	0.01
2D to 3D	0.01	0.01	0.01
3D to 4D	0.01	0.02	0.01
4D to 5C	0.01	0.02	0.01
5C to Bent 6	0.05	0.06	0.04
Bent 6 to Bent 7	0.02	0.03	0.02



CAMBER DIAGRAM
 NO SCALE

Note:
 1. Chain Link Railing Type 3L (Mod 2), H=7', may be omitted on inside curb around Bent 2 and Bent 5 Columns, but hand rail shall continue along inside Curb.

ELEVATION
 $\frac{1}{8}'' = 1'$

PLAN
 $\frac{1}{8}'' = 1'-0''$

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

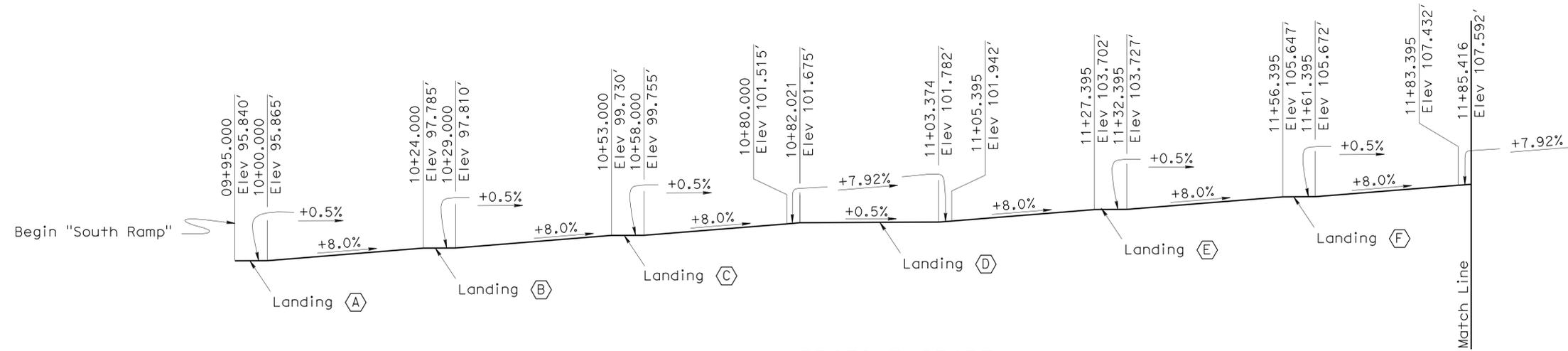
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

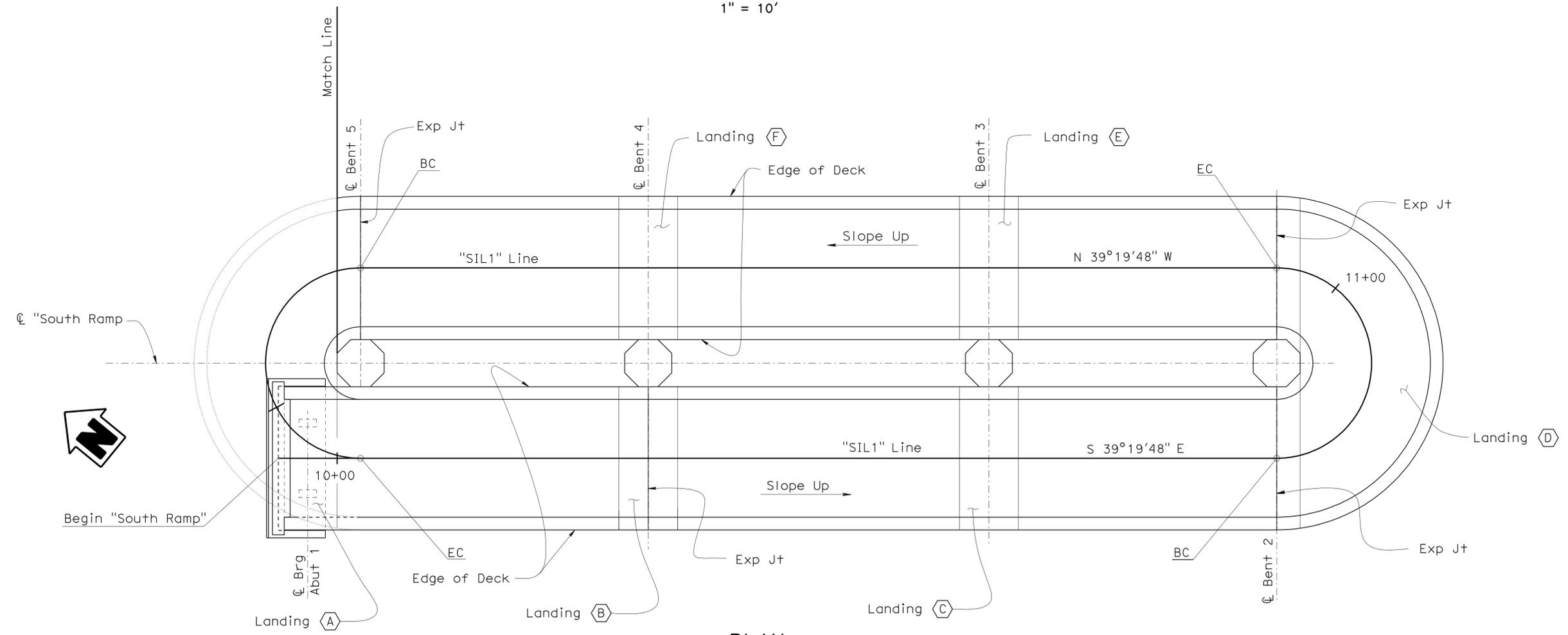
SILVERBOW AVENUE PEDESTRIAN OC
SOUTH RAMP-LAYOUT NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	942	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PROFILE GRADE
1" = 10'



PLAN
1" = 5'
LOWER LEVEL

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

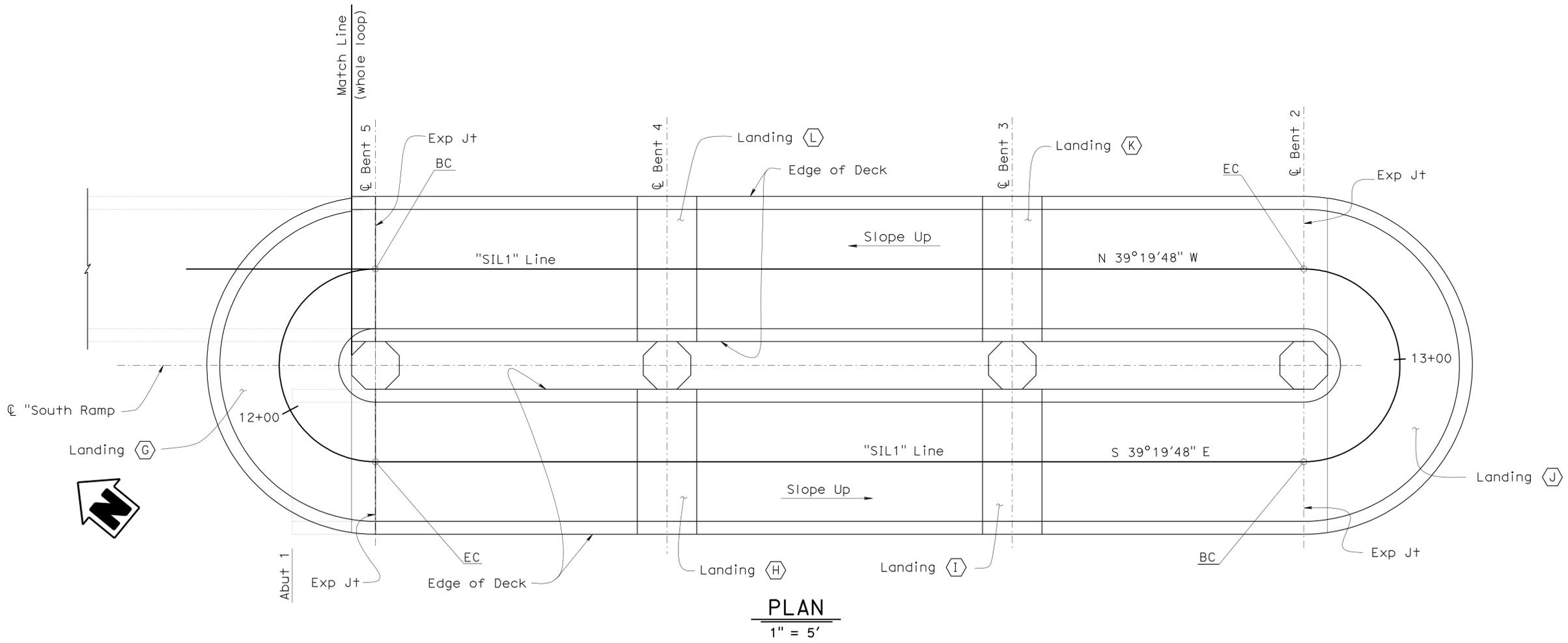
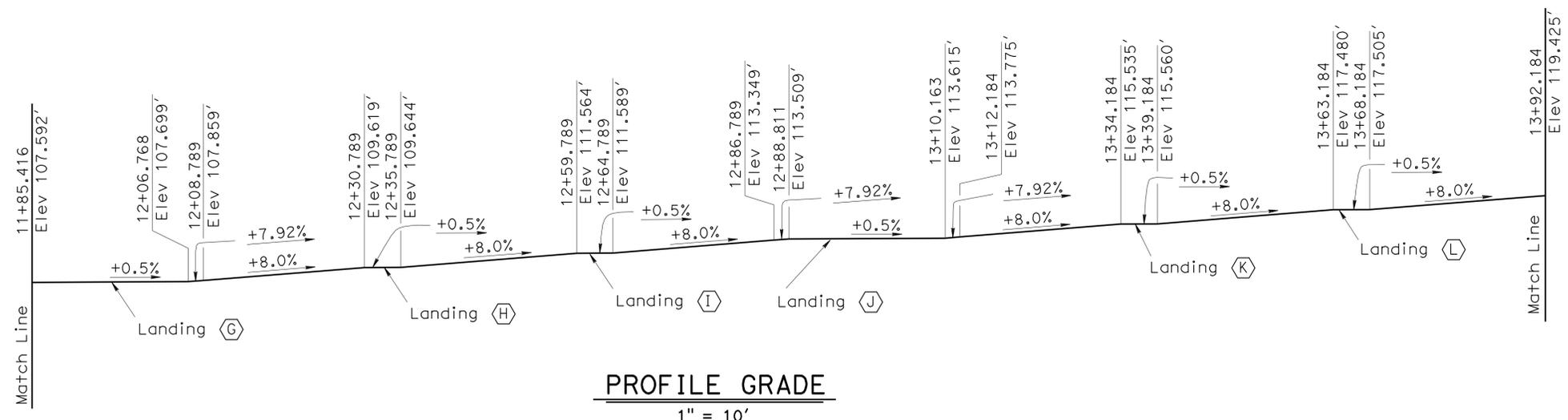
SILVERBOW AVENUE PEDESTRIAN OC
SOUTH RAMP-LAYOUT NO. 2



REVISION DATES	
7-18-09	11-10-11
10-08-09	6-24-10
8-28-10	10-29-10
07-05-11	08-27-11
09-08-11	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	943	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
 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.



UPPER LEVEL

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY S. Cholda	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

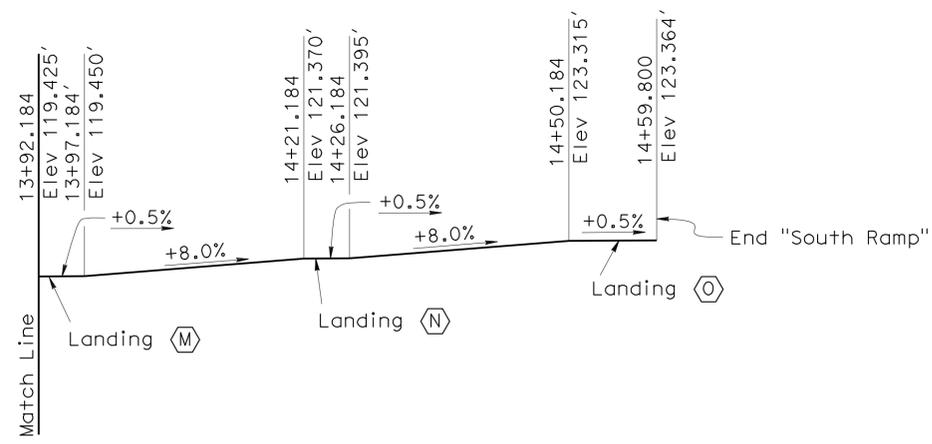
SILVERBOW AVENUE PEDESTRIAN OC
 SOUTH RAMP-LAYOUT NO. 3



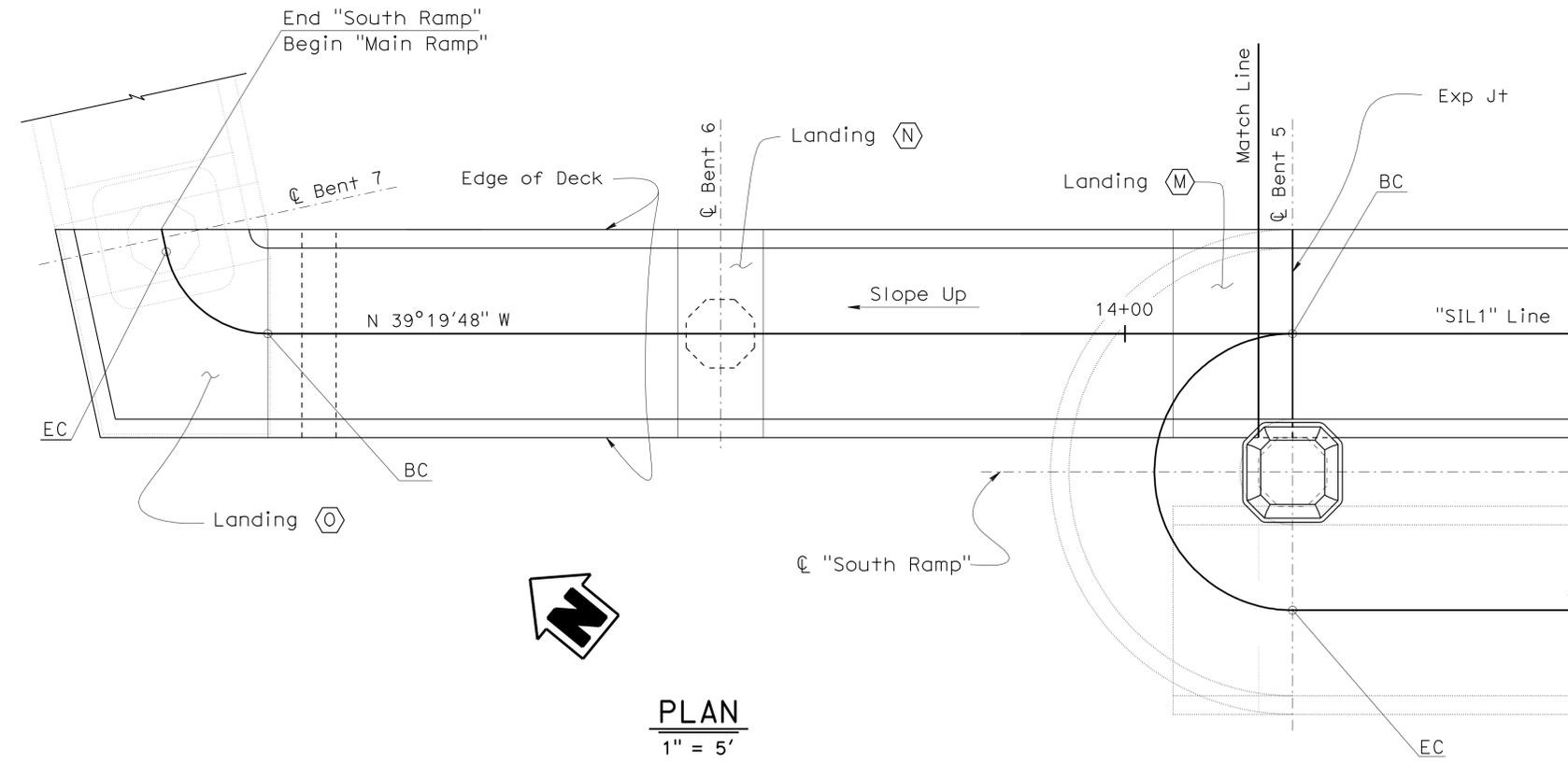
DISREGARD PRINTS BEARING EARLIER REVISION DATES	7-18-09	7-27-09	10-08-09	6-24-10	8-26-10	10-29-10	7-05-11	08-31-11	09-08-11	11-10-11	SHEET 41 OF 101
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	944	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PROFILE GRADE
1" = 10'



PLAN
1" = 5'
UPPER LEVEL

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

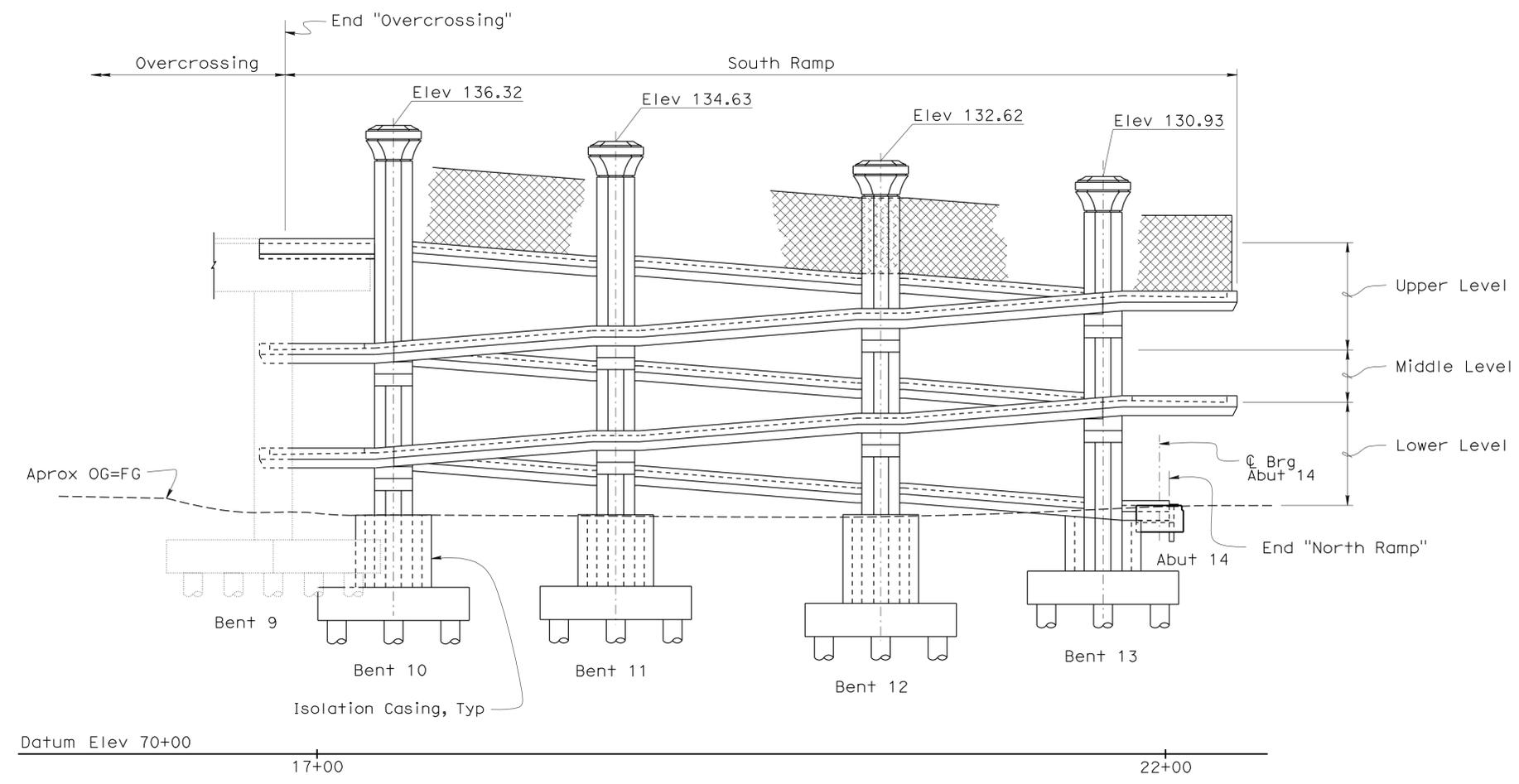
SILVERBOW AVENUE PEDESTRIAN OC
 SOUTH RAMP-LAYOUT NO. 4



REVISION DATES							
7-18-09	9-08-11	11-10-11	6-24-10	8-31-10	11-01-10	11-21-10	12-08-10
1-06-11	08-31-11						

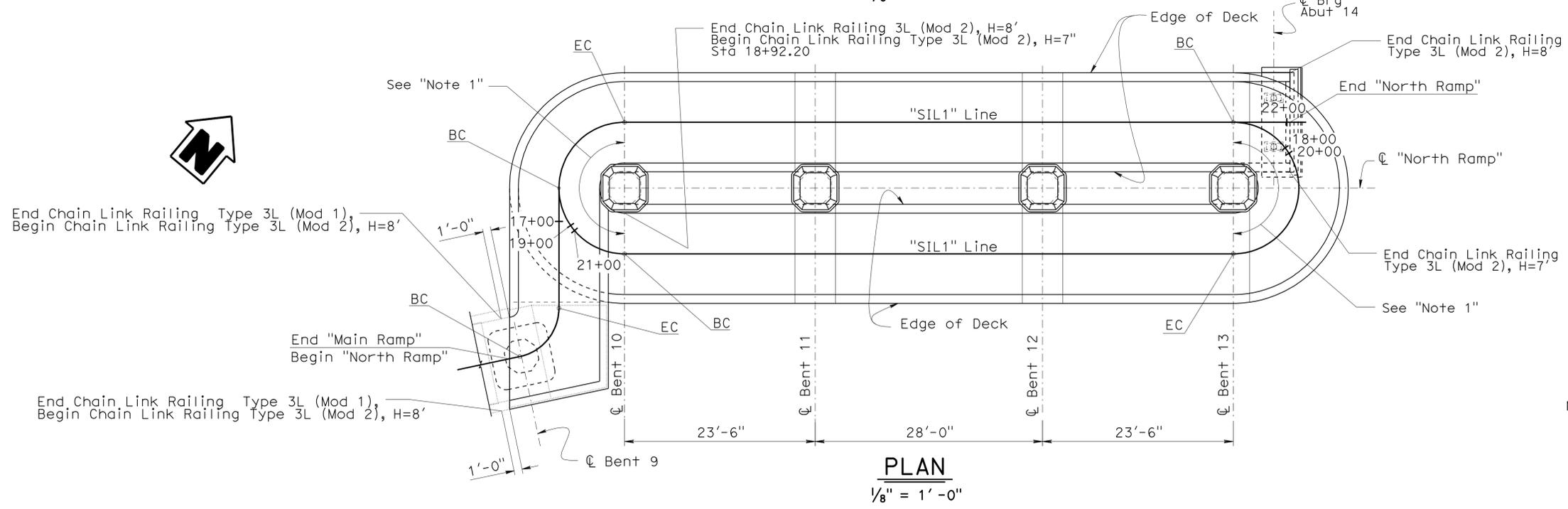
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	945	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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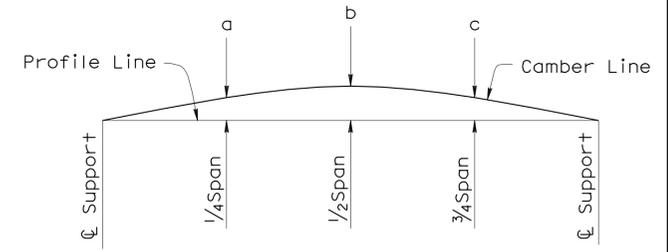


ELEVATION
1/8" = 1' - 0"

Span	Camber (ft)		
	a	b	c
Bent 9 to 10F	0.01	0.01	0.01
10E to 11E	0.01	0.01	0.01
11E to 12E	0.01	0.02	0.01
12E to 13D	0.01	0.01	0.01
13C to 12D	0.01	0.01	0.00
12D to 11D	0.00	0.01	0.01
11D to 10D	0.01	0.01	0.01
10C to 11C	0.01	0.01	0.01
11C to 12C	0.01	0.02	0.01
12C to 13B	0.01	0.02	0.01
13A to 12B	0.01	0.01	0.01
12B to 11B	0.00	0.01	0.00
11B to 10B	0.01	0.01	0.01
10A to 11A	0.01	0.01	0.00
11A to 12A	0.02	0.03	0.02
12A to Abut 14	0.04	0.06	0.04



PLAN
1/8" = 1' - 0"



CAMBER DIAGRAM
NO SCALE

Note:
 See Table
 Note:
 1. Chain Link Railing Type 3L (Mod 2), H=7', may be omitted, on inside curb around Bent 10 and Bent 13 Columns, but hand rail shall continue along inside Curb.

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

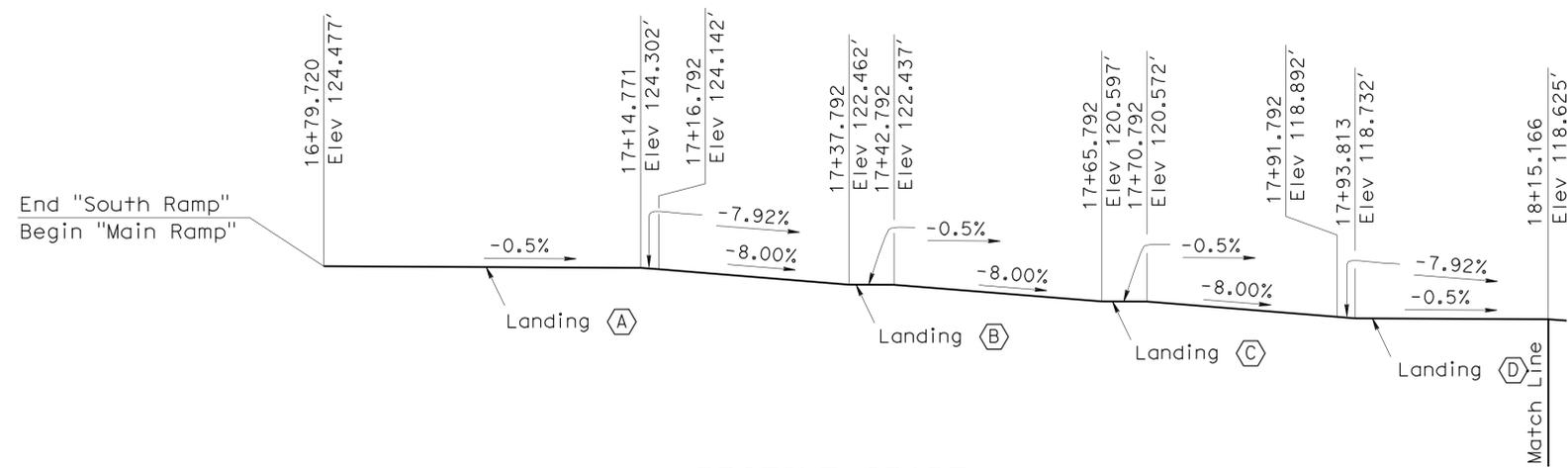
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

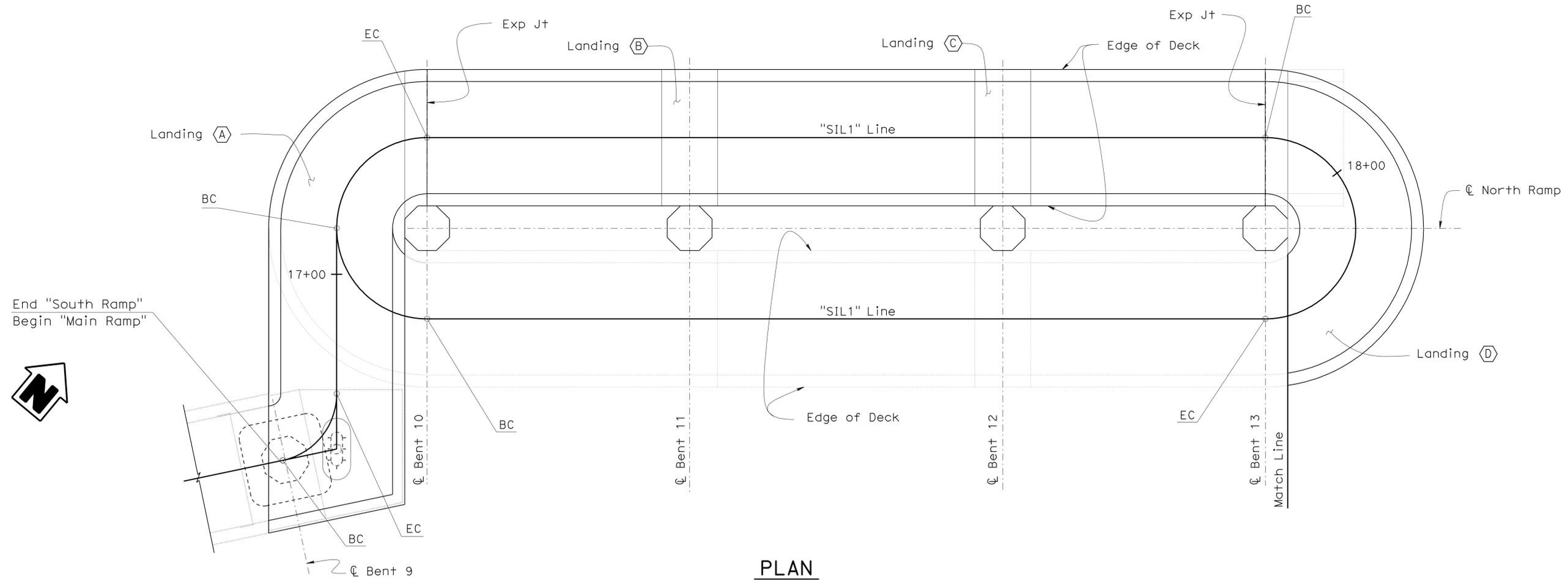
SILVERBOW AVENUE PEDESTRIAN OC
 NORTH RAMP-LAYOUT NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	946	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PROFILE GRADE
1" = 10'



PLAN
1" = 5'
UPPER LEVEL

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

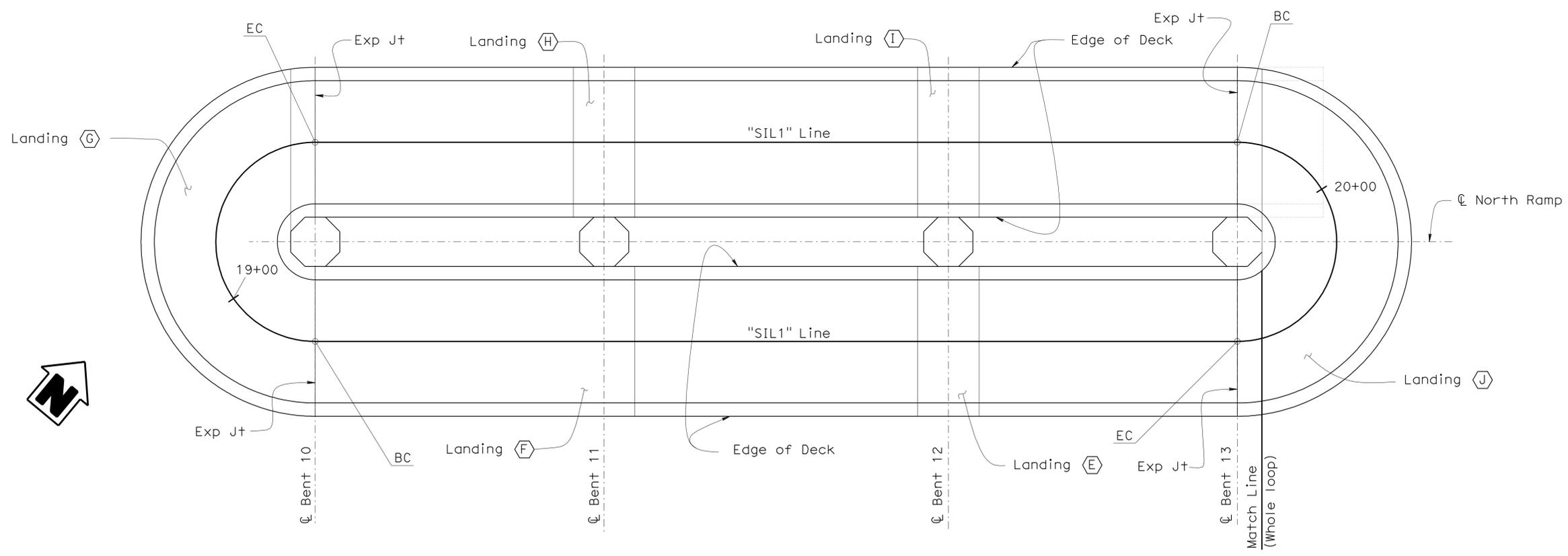
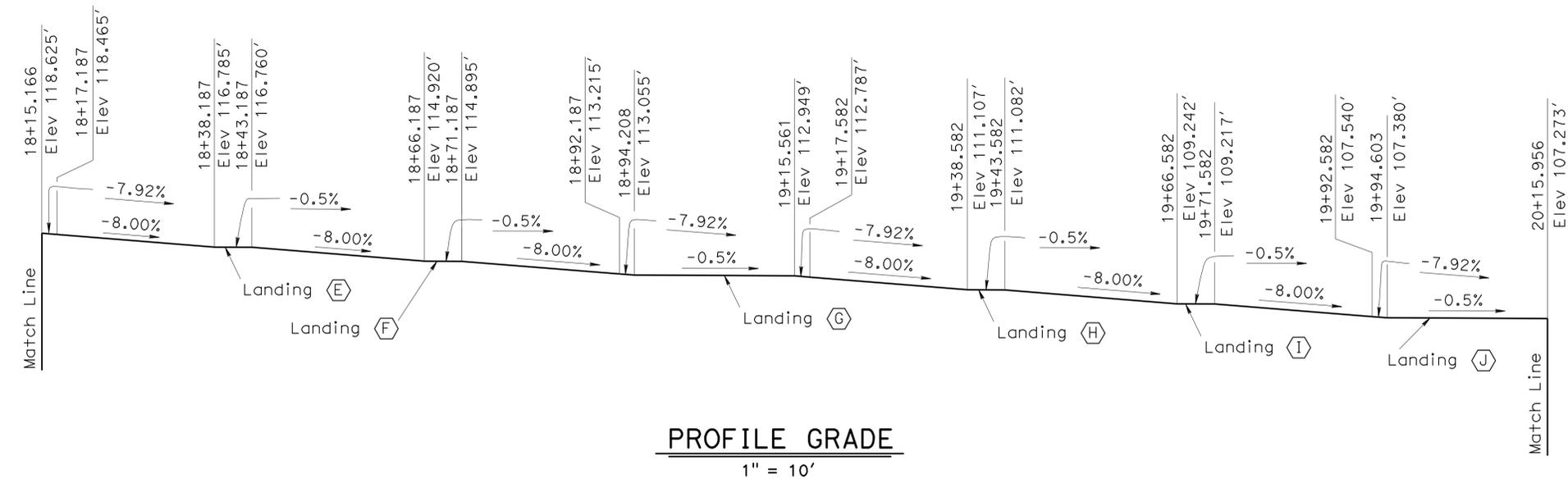
SILVERBOW AVENUE PEDESTRIAN OC
 NORTH RAMP-LAYOUT NO. 2



REVISION DATES	SHEET	OF
7-18-09 11-10-11 6-30-10 1-08-10 1-08-10 7-18-10 9-08-10 11-02-10 08-31-11 02-08-11	44	101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	947	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschat

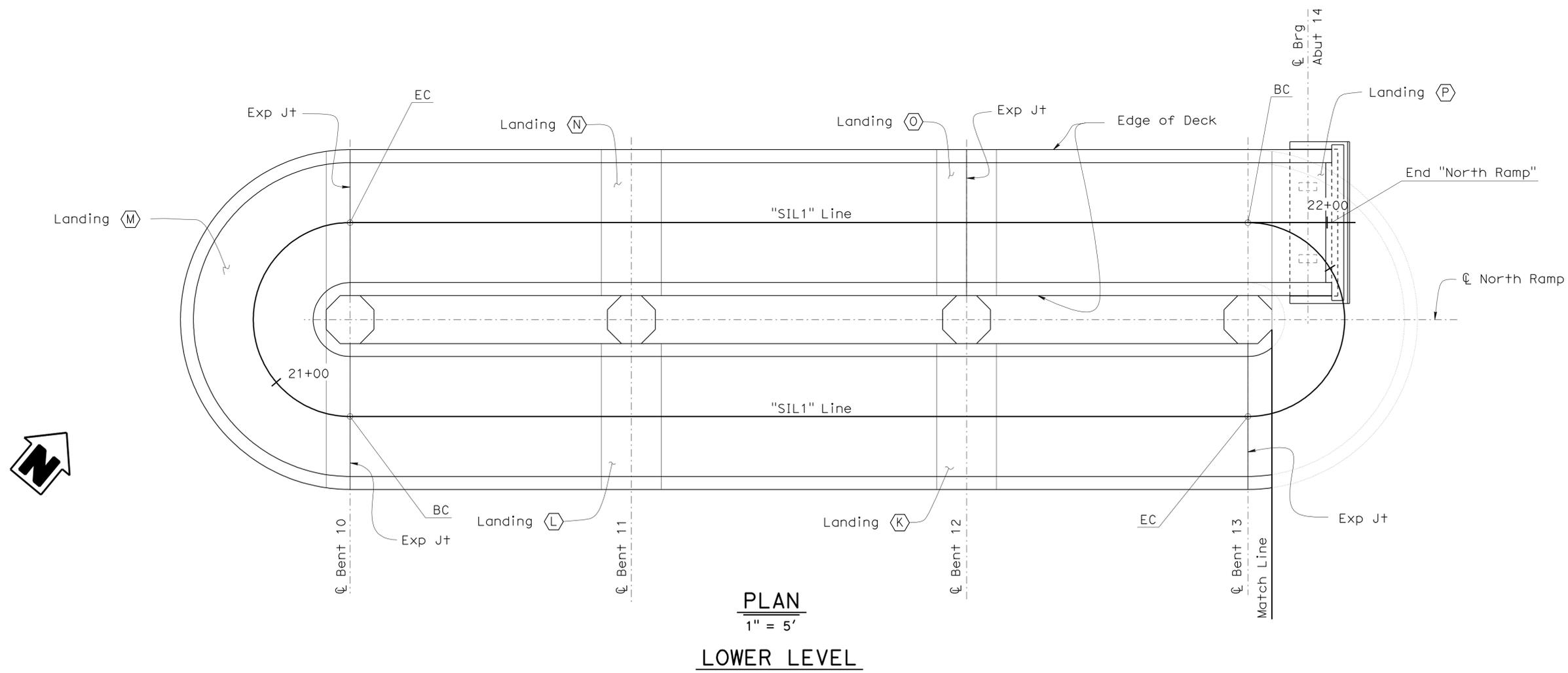
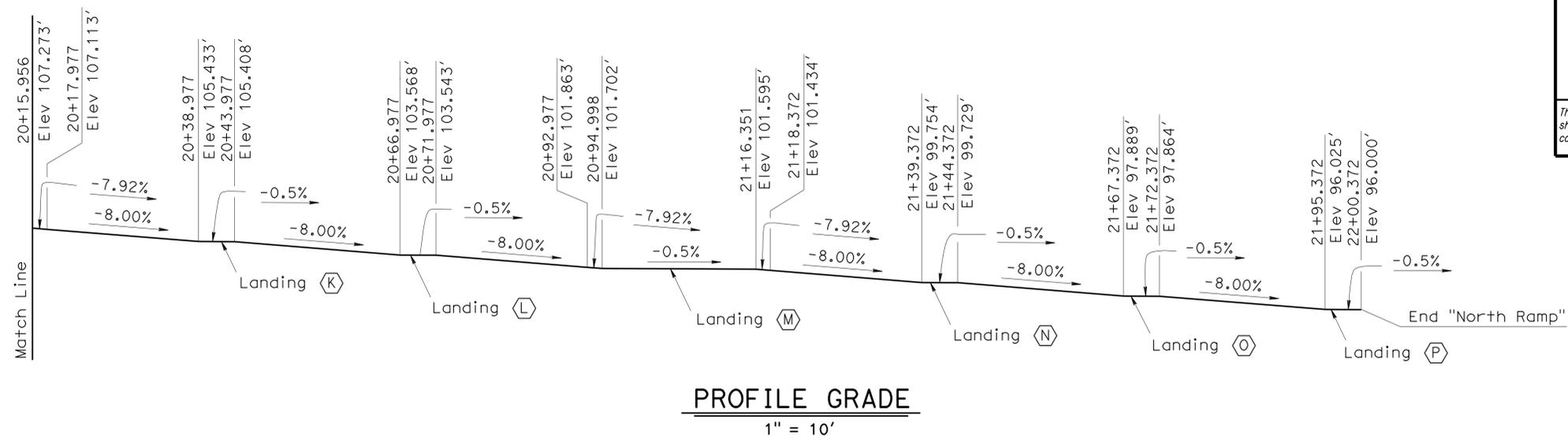
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 NORTH RAMP-LAYOUT NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	948	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			REGISTERED PROFESSIONAL ENGINEER Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
<i>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.</i>					



DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz	CHECKED H. Mauroschadt

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
NORTH RAMP-LAYOUT NO. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 07
EA 215931

DISREGARD PRINTS BEARING EARLIER REVISION DATES

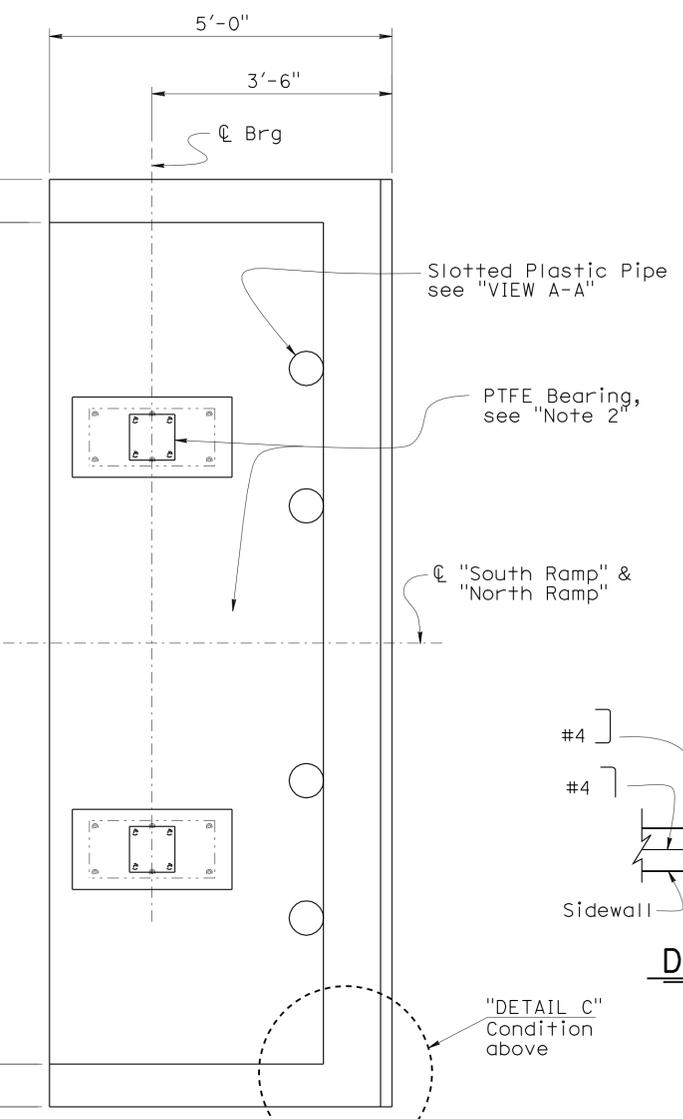
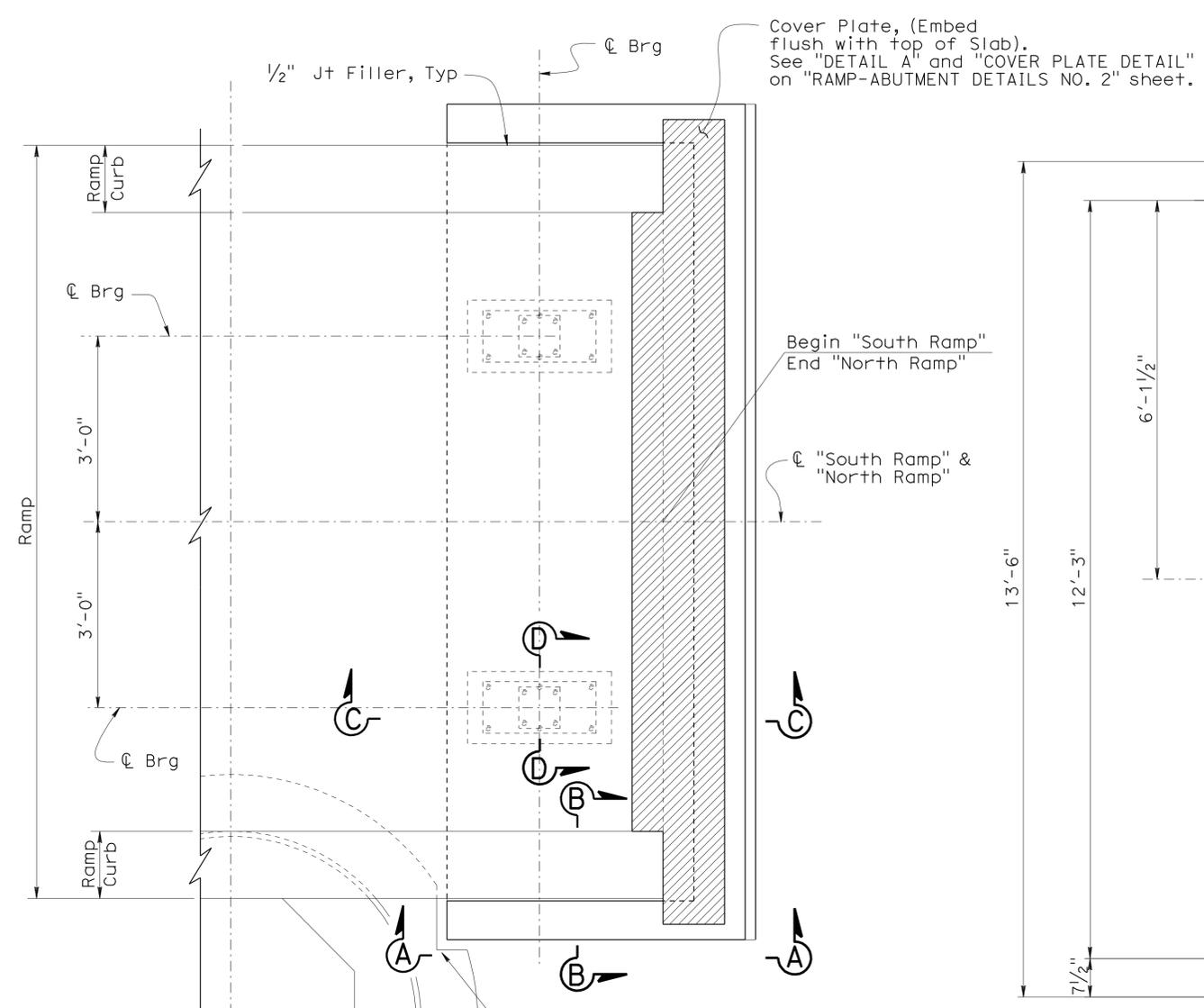
7-18-09	7-27-09	7-27-10	7-27-10	7-27-10	9-01-10	12-09-10	08-27-11	09-08-11	11-10-11
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SHEET 46 OF 101

USERNAME => s114640 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:47

FILE => 53-3043r2-f-lq_04.dgn

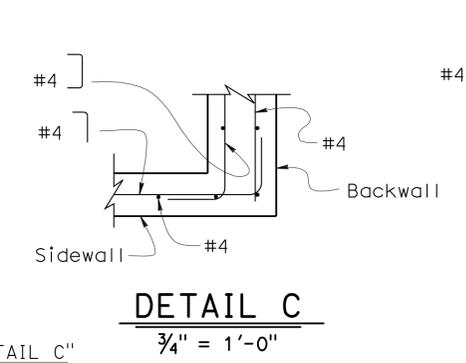
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	949	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE		Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA			
3-26-12 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



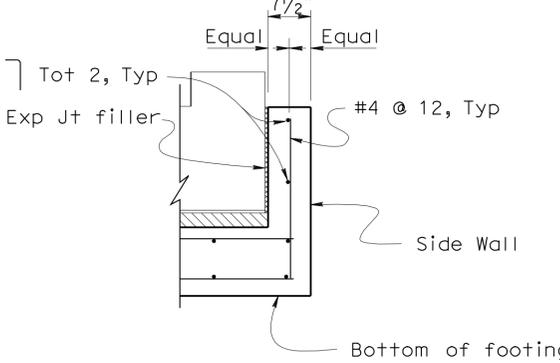
- Notes:
1. Abutment 1 & 14 shown.
 2. For PTFE Bearing details see "PTFE BEARING DETAILS" sheet.
 3. For "SECTION D-D", "DETAIL A" and "DETAIL B" see "RAMP-ABUTMENT DETAILS NO. 2" sheet.
 4. For details, see "RAMP-ISOLATION CASING DETAILS" sheets.
 5. Provide blackout in Column Lean concrete backfill, to avoid interference with Abutment.
 6. For Isolation Casing details, see "RAMP-ISOLATION CASING DETAILS" sheets.

Legend:

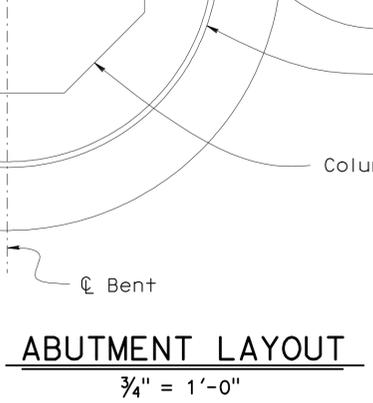
- Indicates Steel Cover Plate
- Indicates Expanded Polystyrene



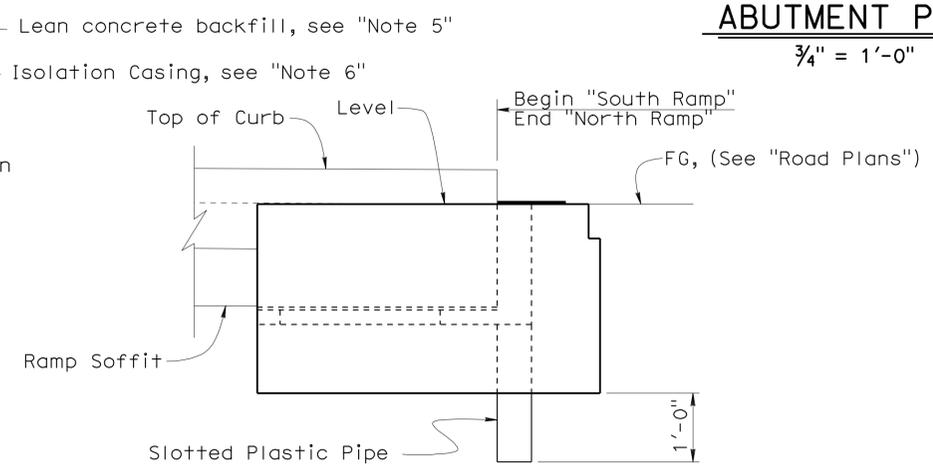
DETAIL C
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"

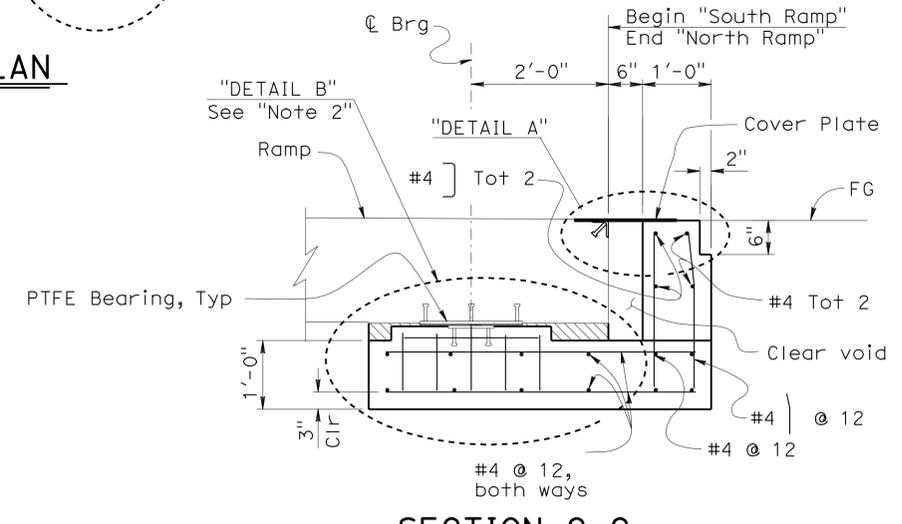


ABUTMENT LAYOUT
3/4" = 1'-0"



VIEW A-A
3/4" = 1'-0"

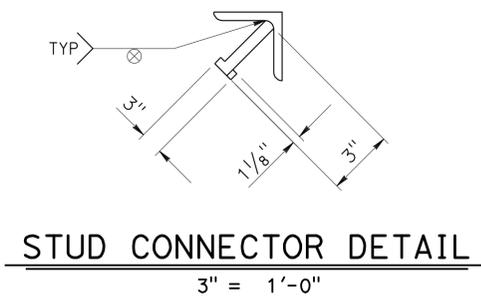
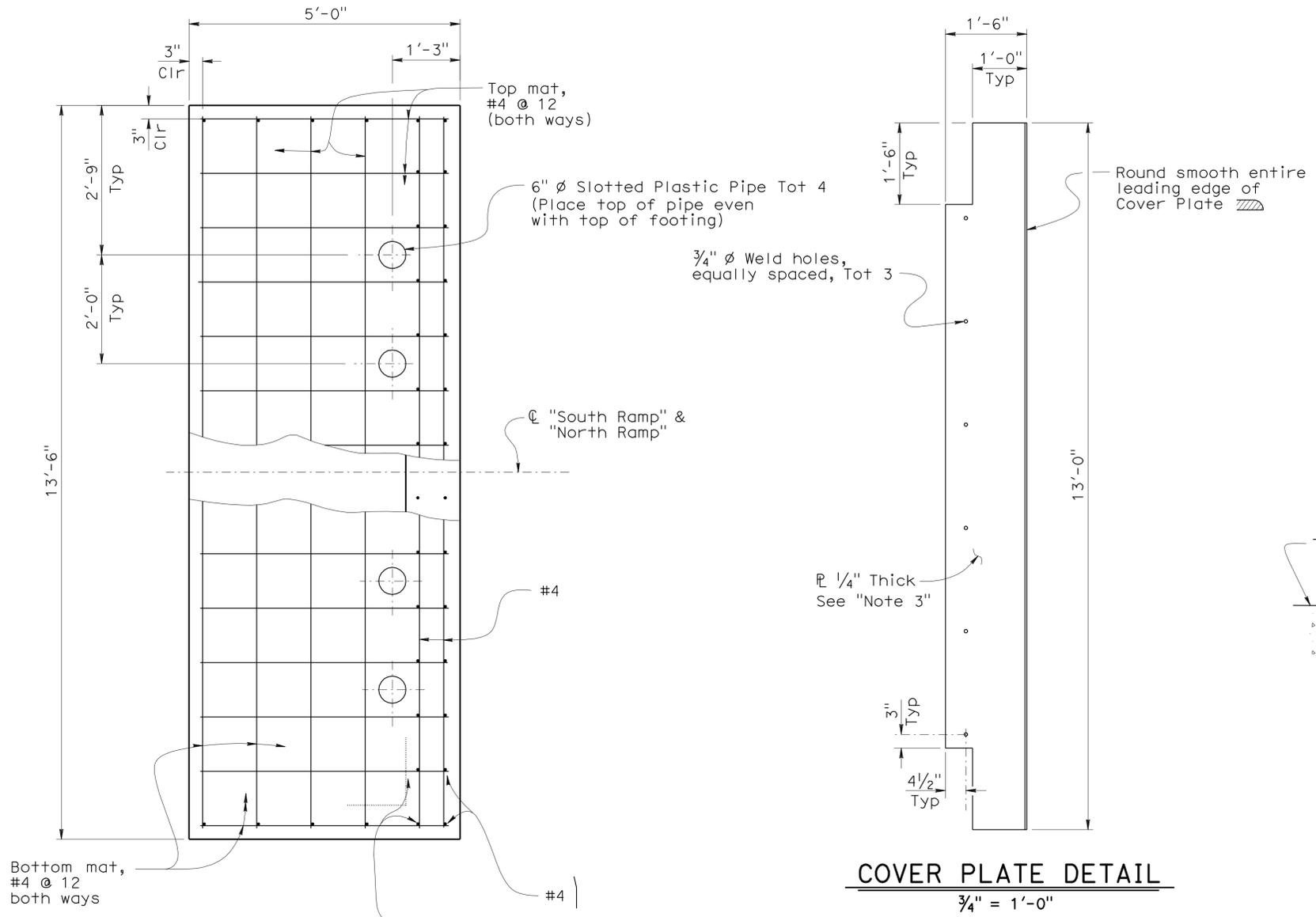
ABUTMENT PLAN
3/4" = 1'-0"



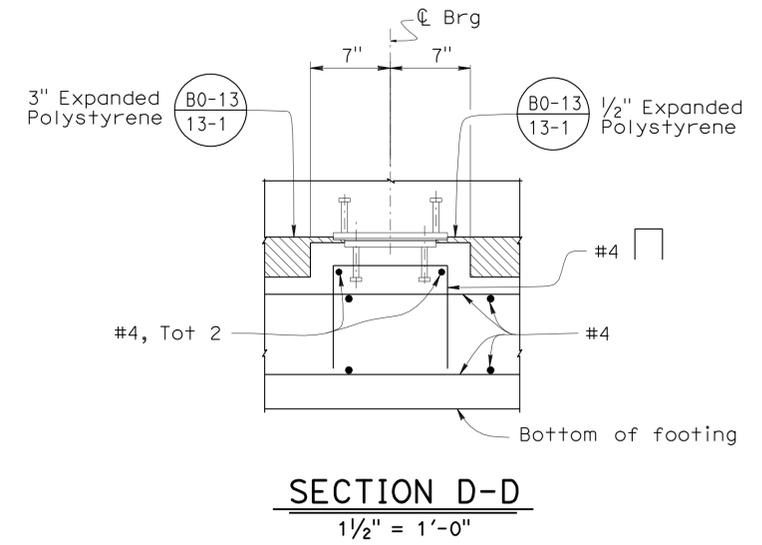
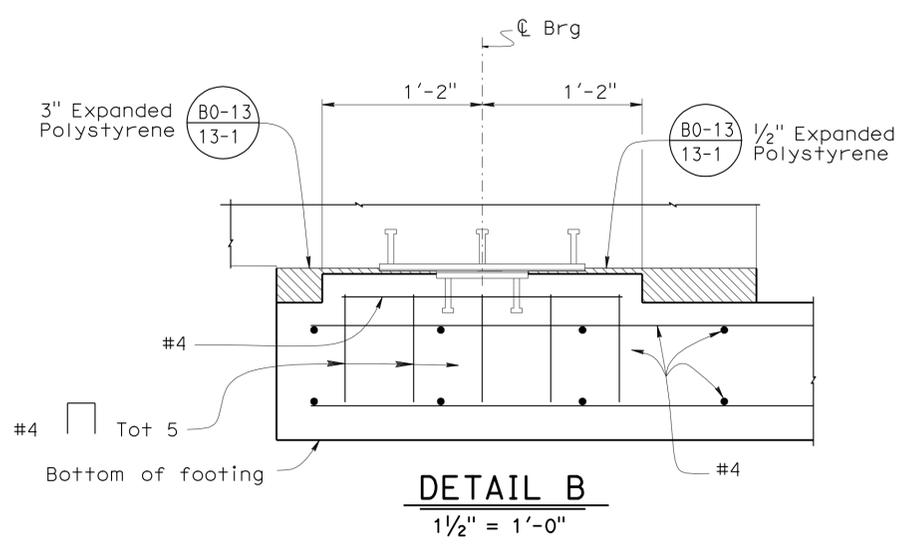
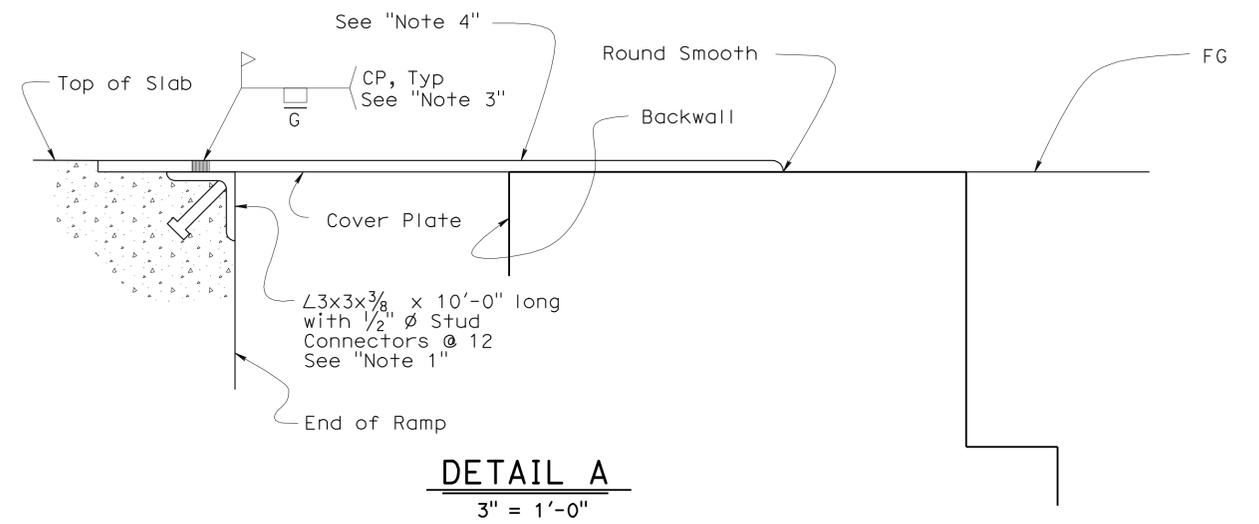
SECTION C-C
3/4" = 1'-0"

DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	SILVERBOW AVENUE PEDESTRIAN OC RAMP-ABUTMENT DETAILS NO. 1
DETAILS	BY T. Trefz/S. Cholda	CHECKED Laith Bahia			53-3043	
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			POST MILE 3.97	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 47 OF 101 REVISION DATES: 05-18-11, 05-27-11, 07-18-11, 08-02-11, 08-16-11, 08-31-11, 09-08-11, 09-26-11, 10-11-11, 01-03-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	950	1288
REGISTERED CIVIL ENGINEER		DATE			
Andrew P. Rittenhouse		12-12-11			
REGISTERED PROFESSIONAL ENGINEER		PLANS APPROVAL DATE			
No. 61006		3-26-12			
Exp. 12-31-12					
STATE OF CALIFORNIA					
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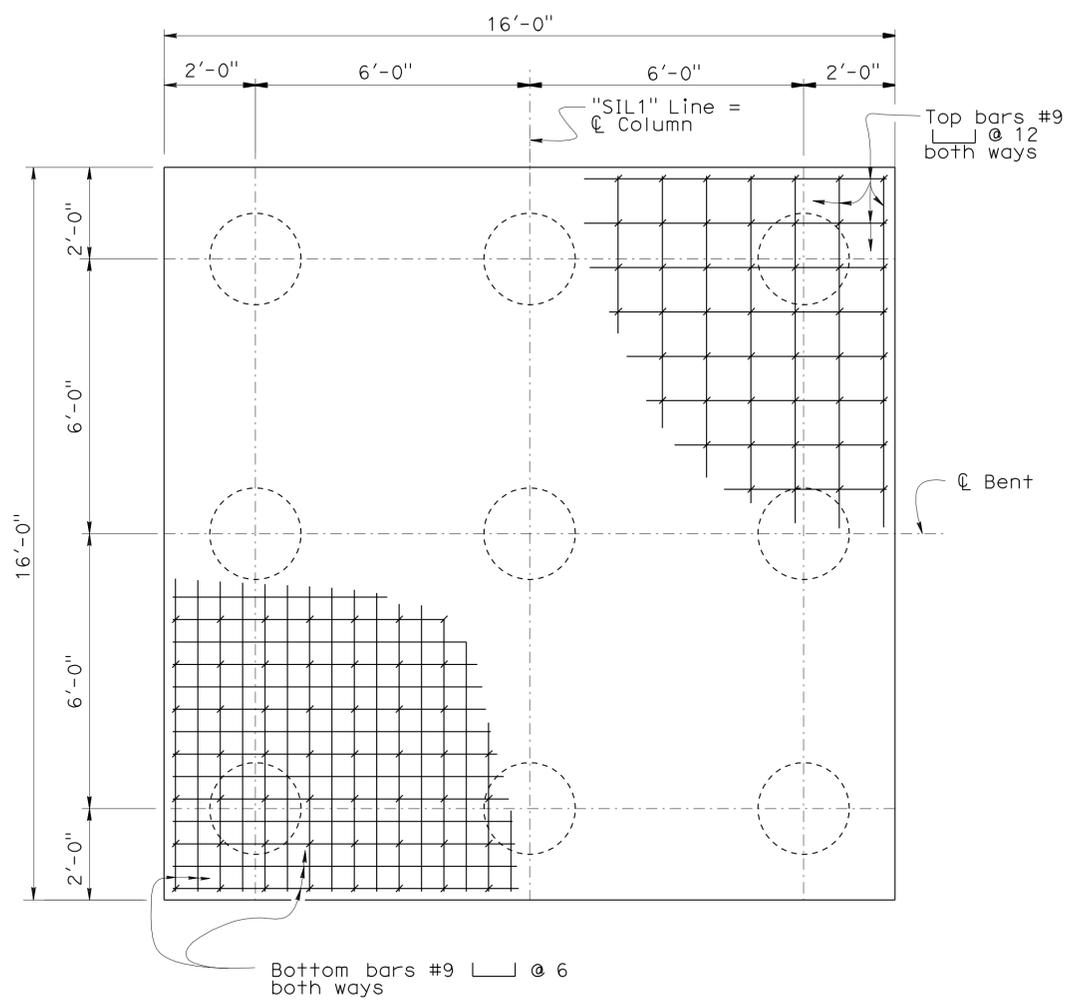
- Notes:
- Galvanize Angle and Stud Connectors after assembly.
 - Galvanize Cover Plate after fabrication.
 - Apply zinc coat to weld and damaged galvanization around weld.
 - Coat Cover Plate with non-skid surface after installation.



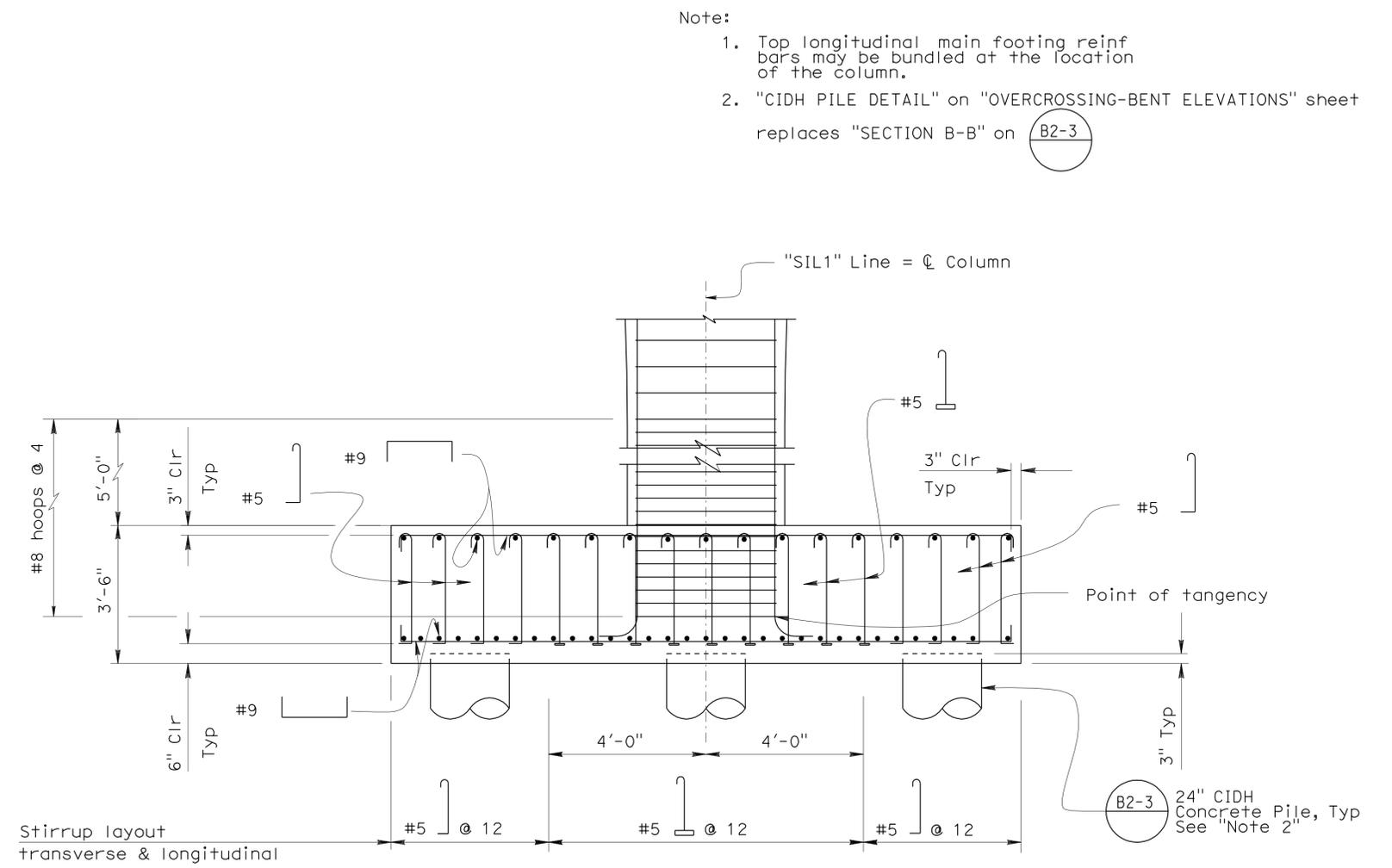
DESIGN	BY	H. Setberg	CHECKED	Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-ABUTMENT DETAILS NO. 2	
	DETAILS	BY	T. Trefz/S. Cholda	CHECKED			Laith Bahia	POST MILE		3.97
	QUANTITIES	BY	T. Trefz/H. Setberg	CHECKED			H. Setberg/R. Novik			
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 48 OF 101
						0 1 2 3	05-19-11 05-27-11 07-15-11 08-20-11 08-10-11 08-31-11 09-08-11 09-26-11 11-10-11 01-03-12			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	951	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
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FOOTING PLAN
1/2" = 1'-0"



PART ELEVATION
1/2" = 1'-0"

- Note:
1. Top longitudinal main footing reinf bars may be bundled at the location of the column.
 2. "CIDH PILE DETAIL" on "OVERCROSSING-BENT ELEVATIONS" sheet replaces "SECTION B-B" on **B2-3**

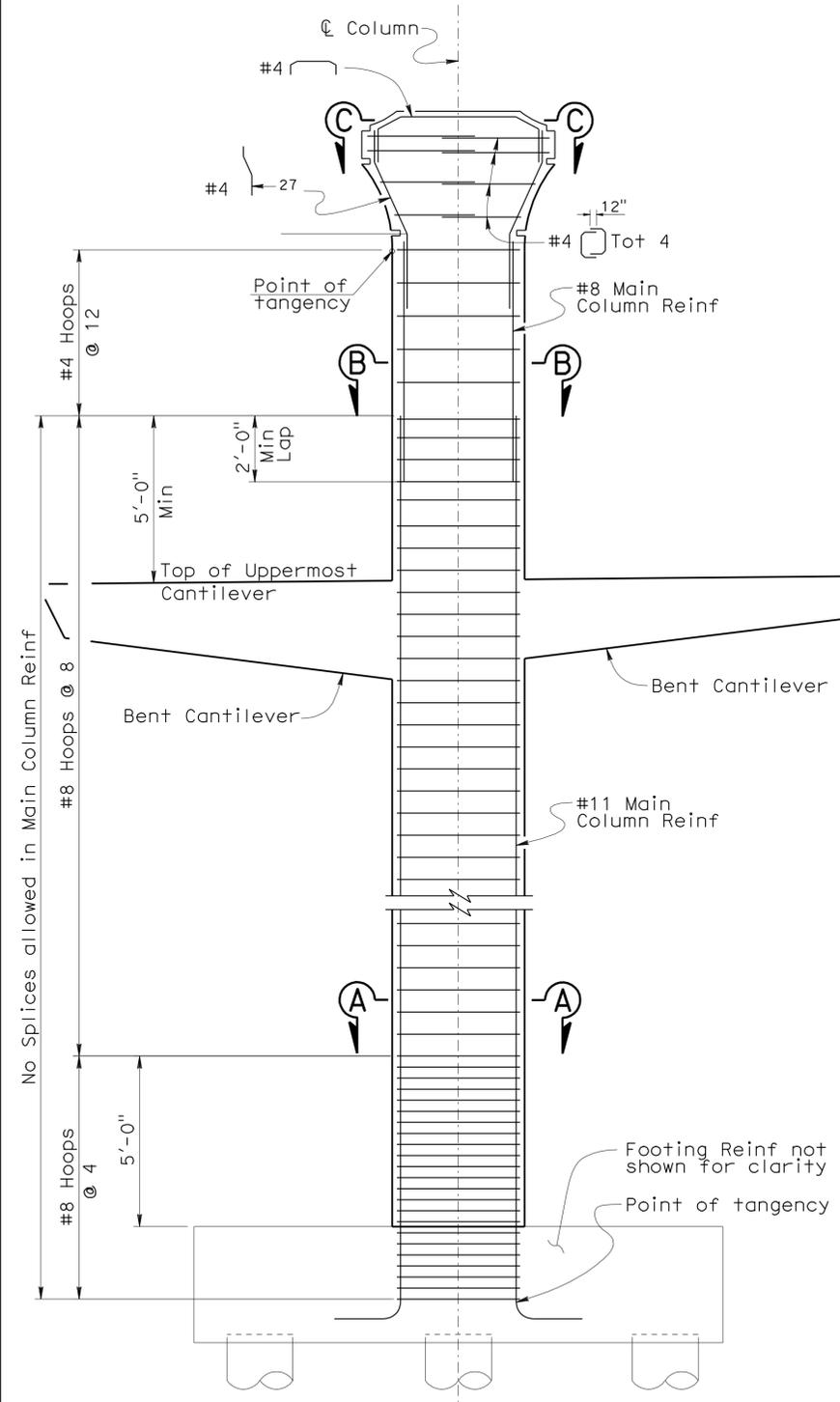
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-FOOTING DETAILS		
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97			
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik							
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES 05-23-11 07-24-11 08-31-11 09-26-11 11-10-11	SHEET 49 OF 101

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52

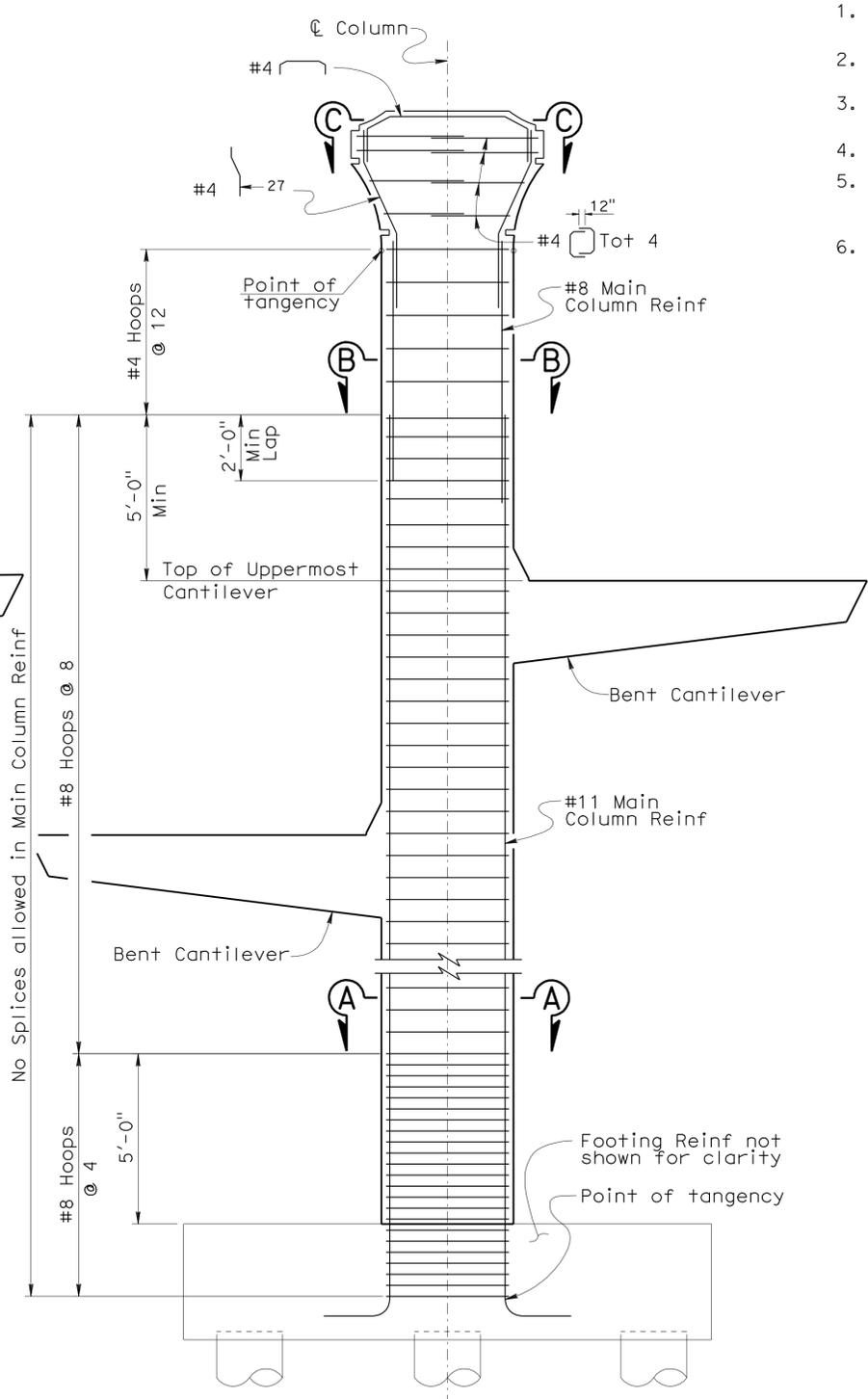
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	952	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
 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.

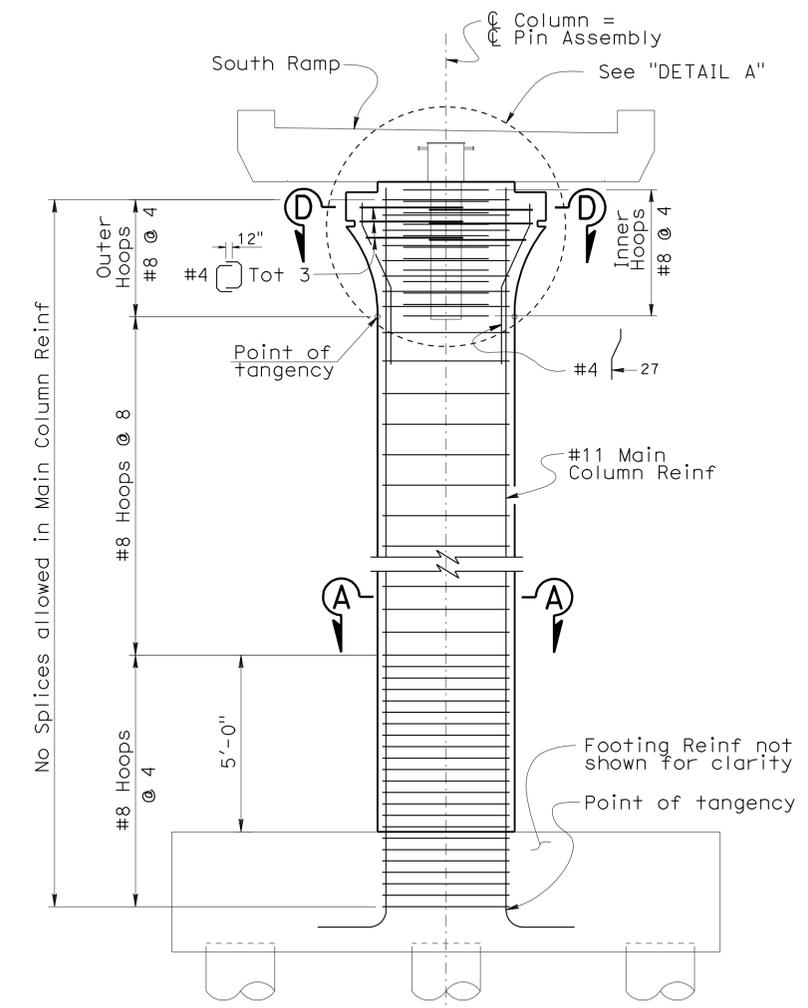
- Notes:
- For Column geometry, see "RAMP-COLUMN GEOMETRY" sheets.
 - For Footing Reinf see "RAMP - FOOTING DETAILS" sheet.
 - All hoops shall be made continuous by Ultimate Splice.
 - No splices allowed in main Column Reinf.
 - For "SECTION A-A", "SECTION B-B", "SECTION C-C", "SECTION D-D", and "DETAIL A", see "RAMP - COLUMN DETAILS" sheet.
 - Isolation Casing not shown for clarity.



BENT 2
(Bents 5, 10 & 13 Similar)
ELEVATION
 $\frac{3}{8}'' = 1'-0''$



BENT 4
(Bents 3, 11 & 12 Similar)
ELEVATION
 $\frac{3}{8}'' = 1'-0''$



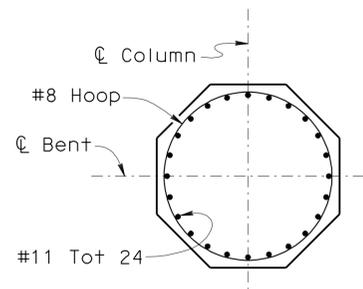
BENT 6
ELEVATION
 $\frac{3}{8}'' = 1'-0''$

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT ELEVATIONS
	DETAILS	BY T. Trefz	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 50 OF 101		

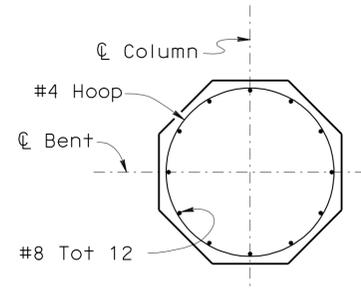
USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	953	1288

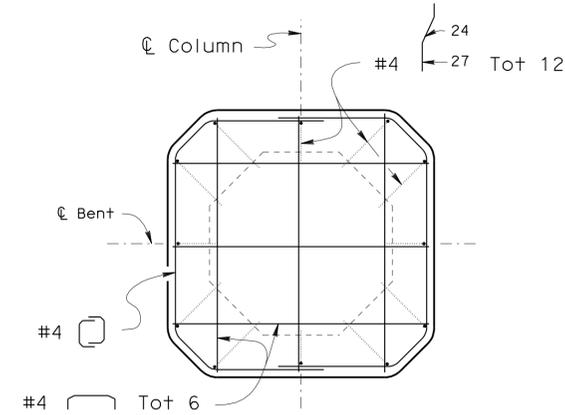
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
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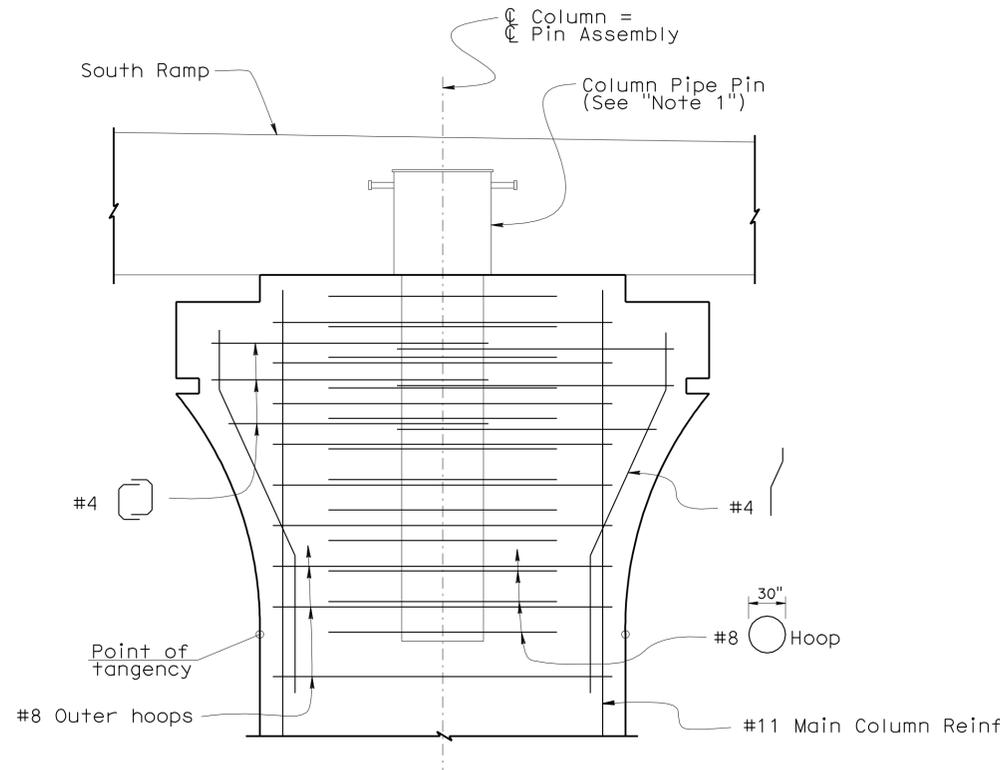
SECTION A-A
1/2" = 1'-0"



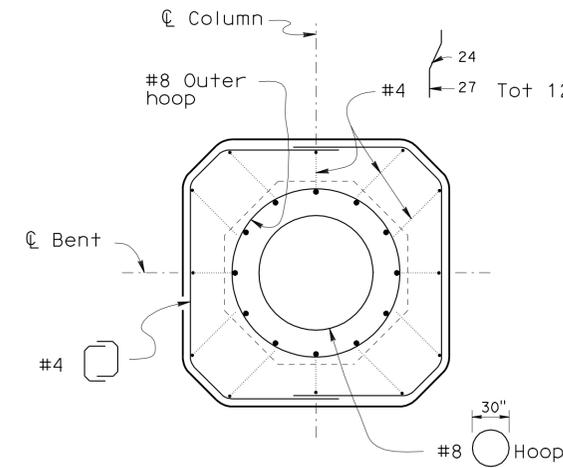
SECTION B-B
1/2" = 1'-0"



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



DETAIL A
1" = 1'-0"



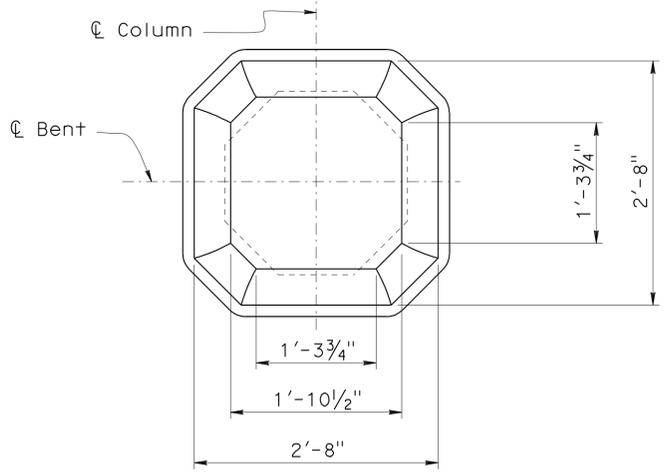
SECTION D-D
1/2" = 1'-0"

Note:
1. For Column Pin details, see "PIN ASSEMBLY DETAILS NO.1" sheet.

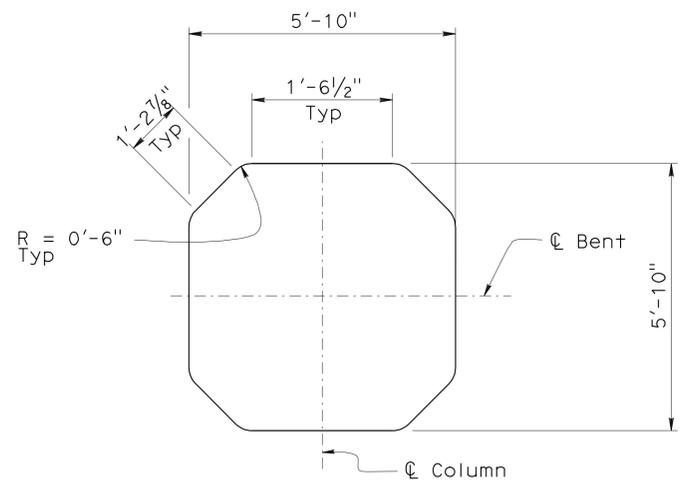
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-COLUMN DETAILS
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 51	OF 101	

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52

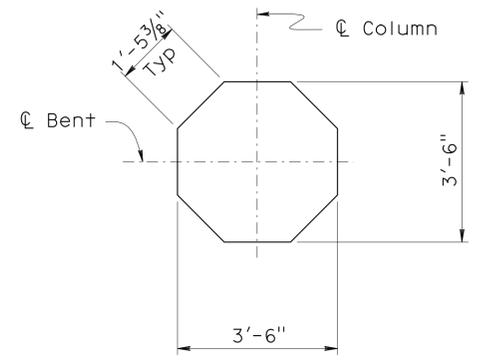
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	954	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



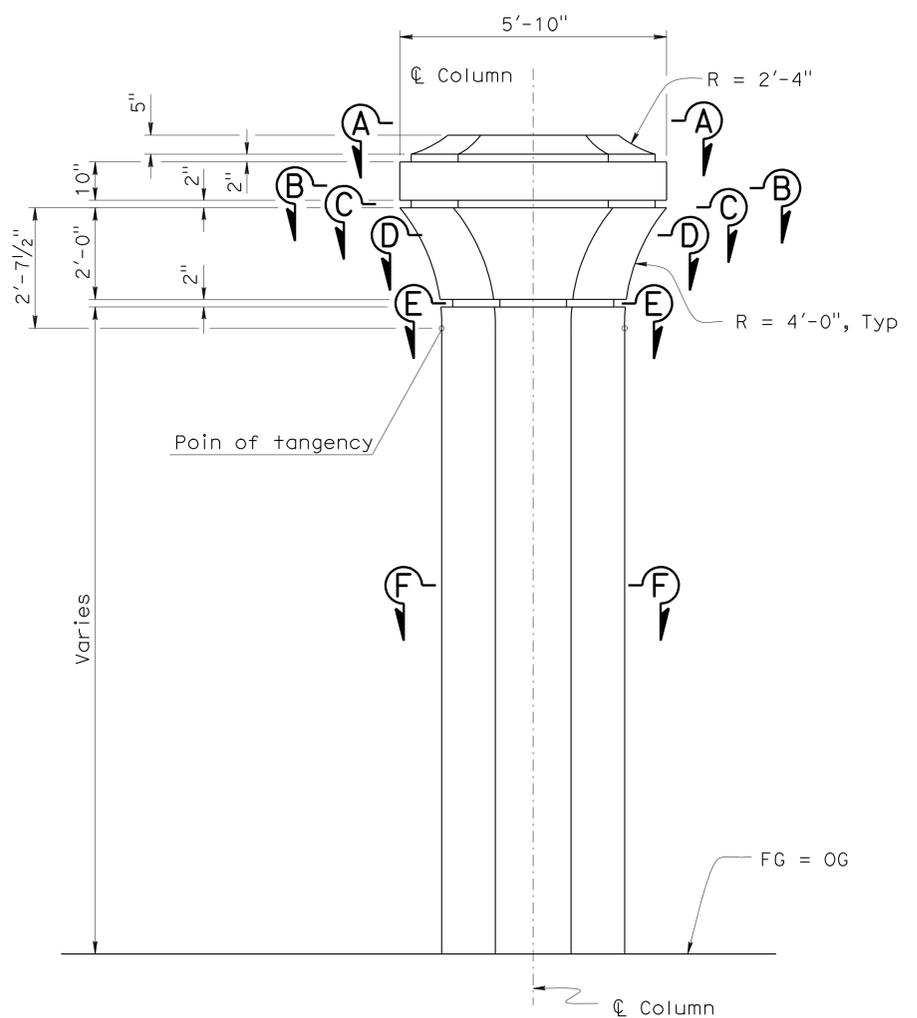
VIEW A-A
1/2" = 1'-0"



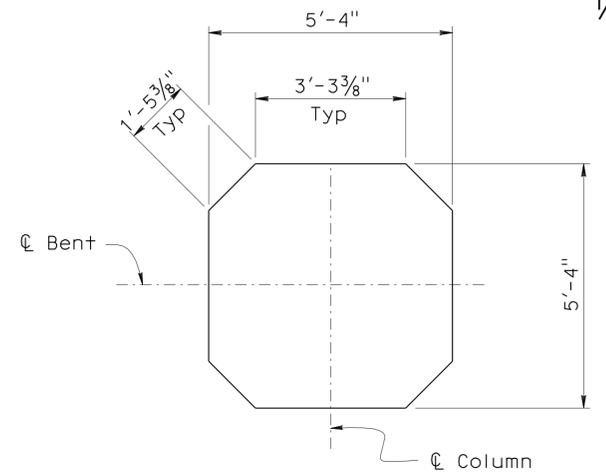
SECTION B-B
1/2" = 1'-0"



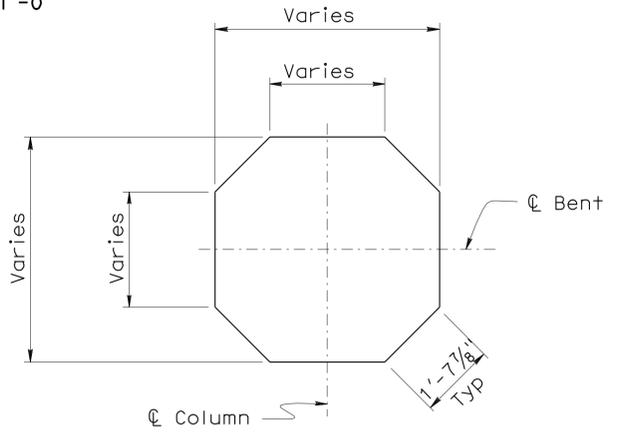
SECTION E-E
1/2" = 1'-0"



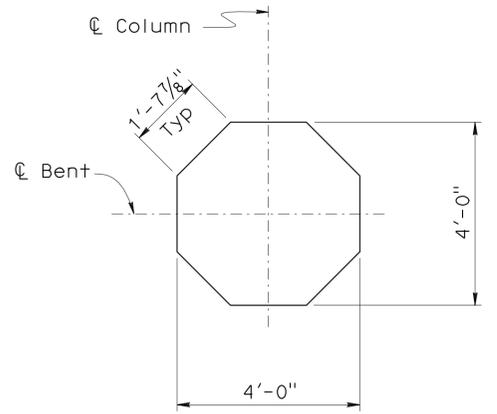
ELEVATION
1/2" = 1'-0"



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



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



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

BENTS 2, 3, 4, 5, 10, 11, 12, & 13

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

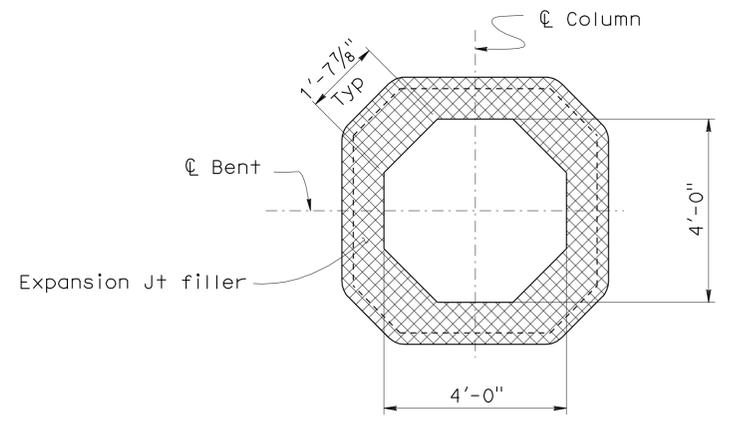
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

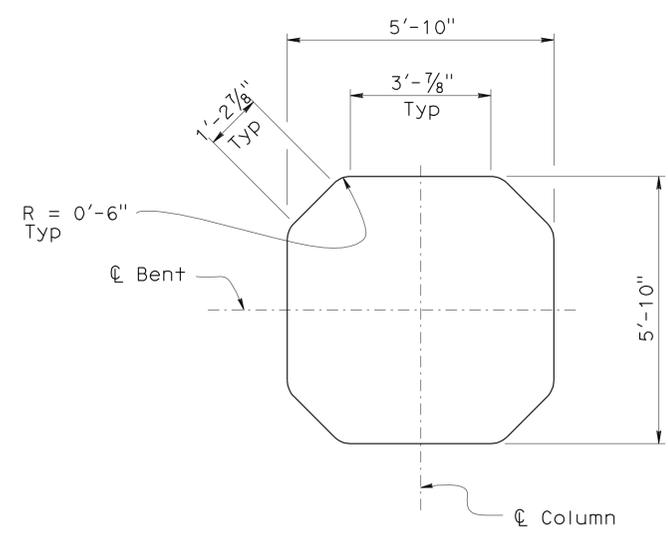
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-COLUMN GEOMETRY NO. 1

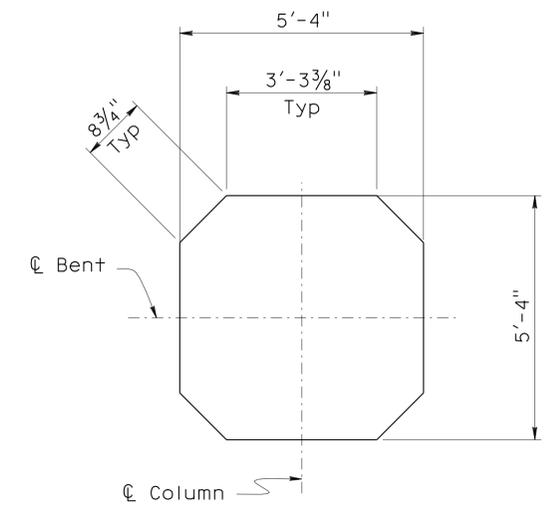
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	955	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



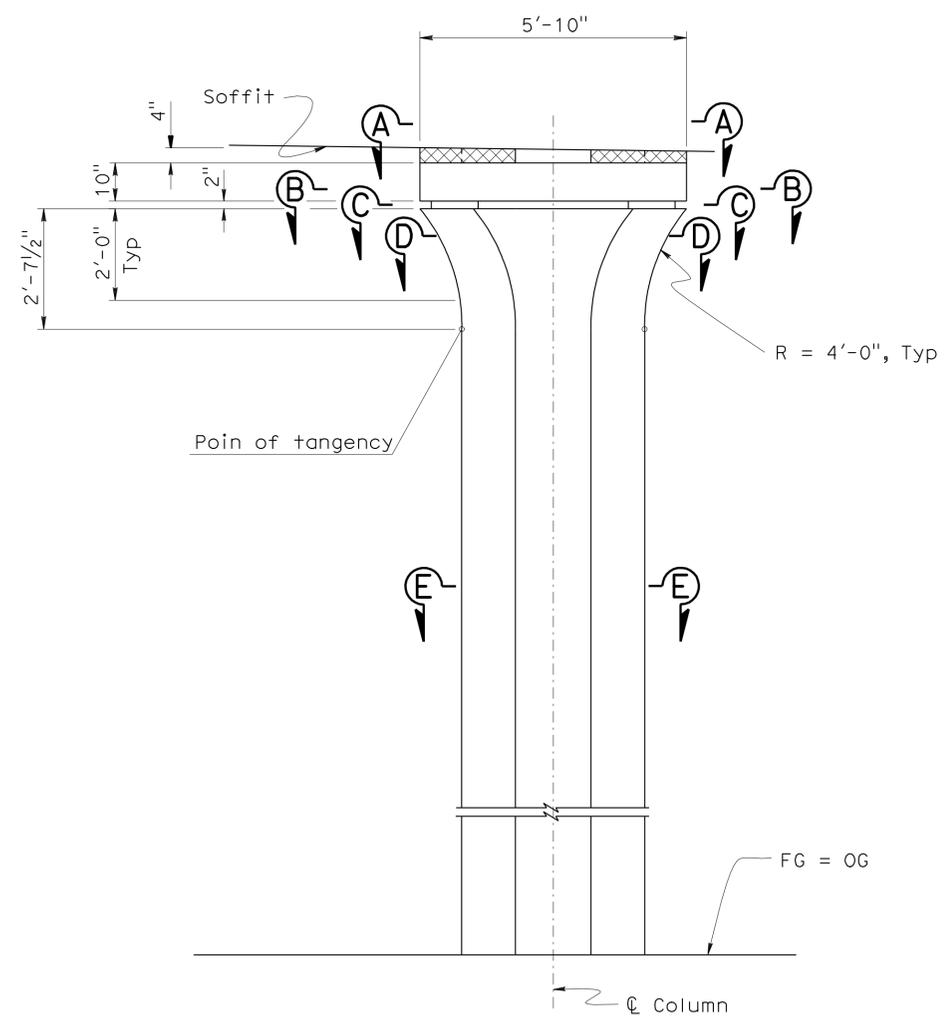
VIEW A-A
1/2" = 1'-0"



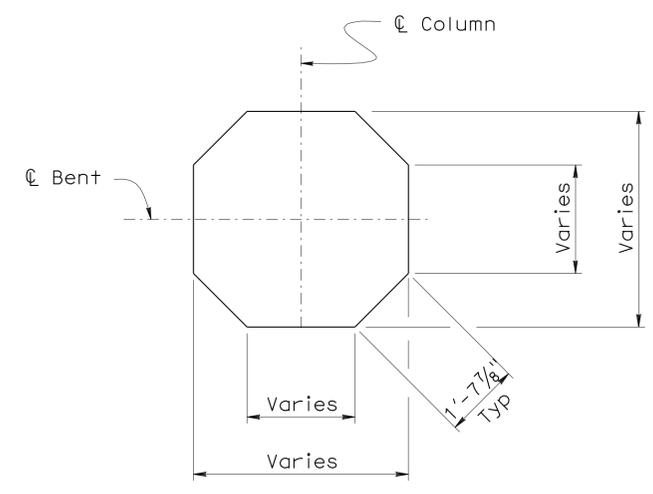
SECTION B-B
1/2" = 1'-0"



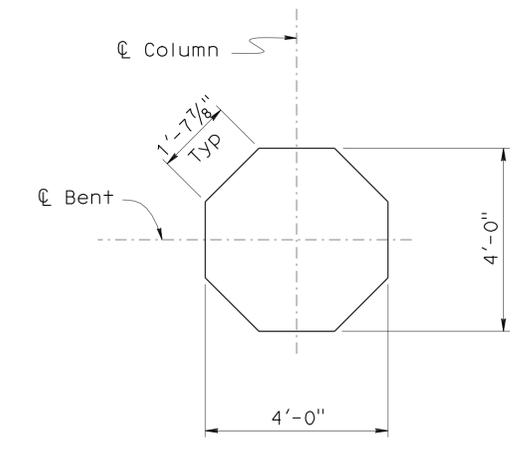
SECTION C-C
1/2" = 1'-0"



ELEVATION
1/2" = 1'-0"



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



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

BENT 6 - COLUMN DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-COLUMN GEOMETRY NO. 2
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 53 OF 101		

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:53

Notes:
 1. All Bent elevations shown looking ahead on bent numbering sequence (Northwest)

Legend:

XX Indicates Cantilever designation

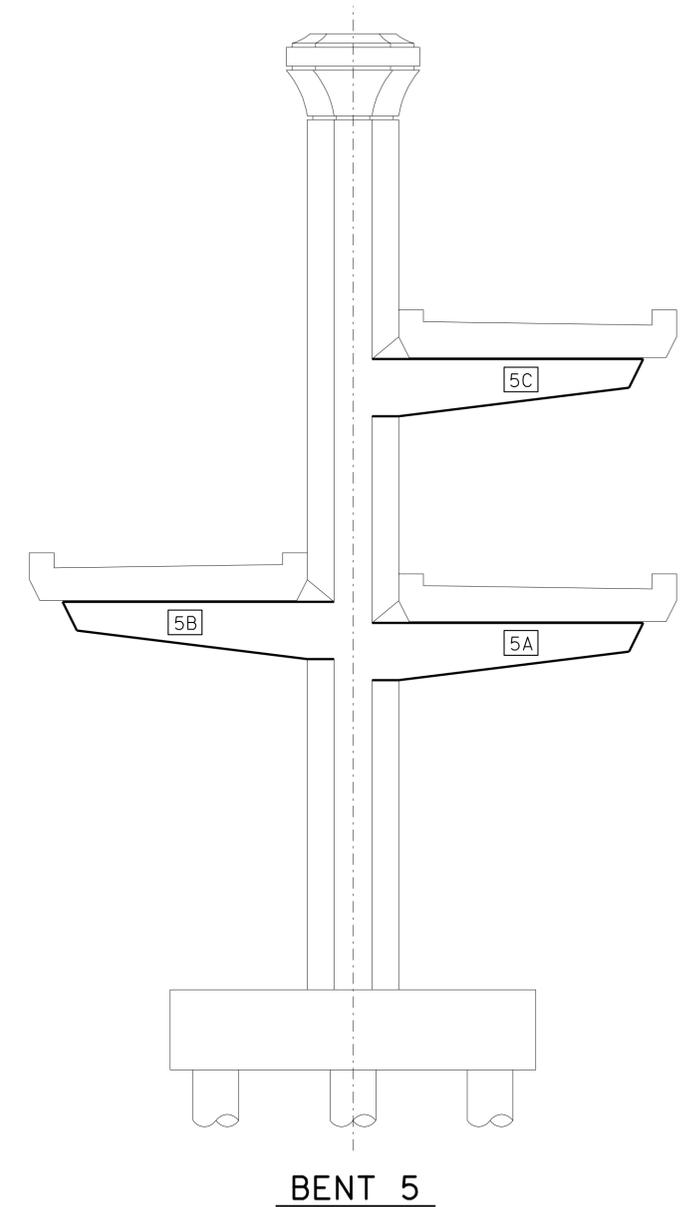
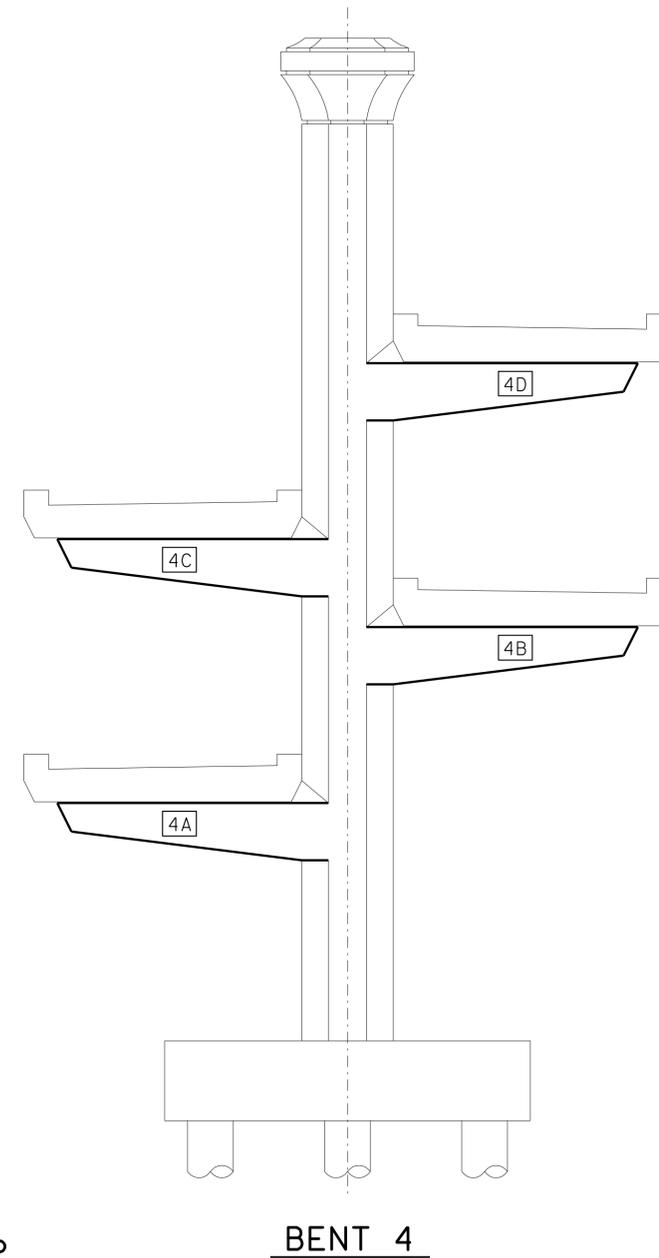
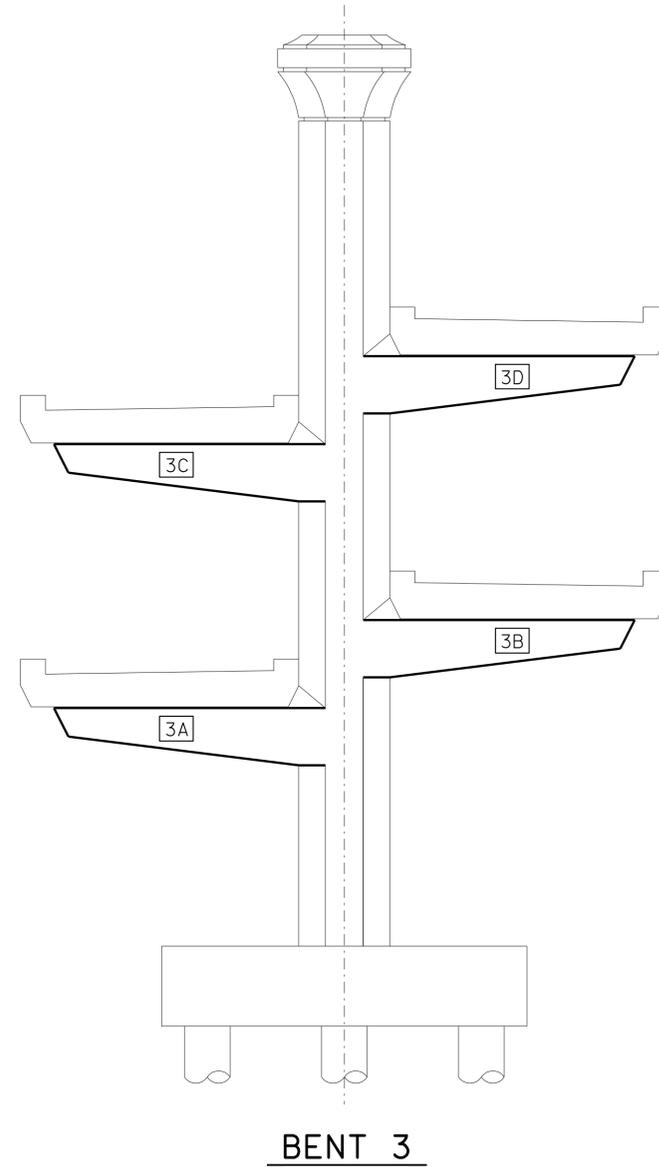
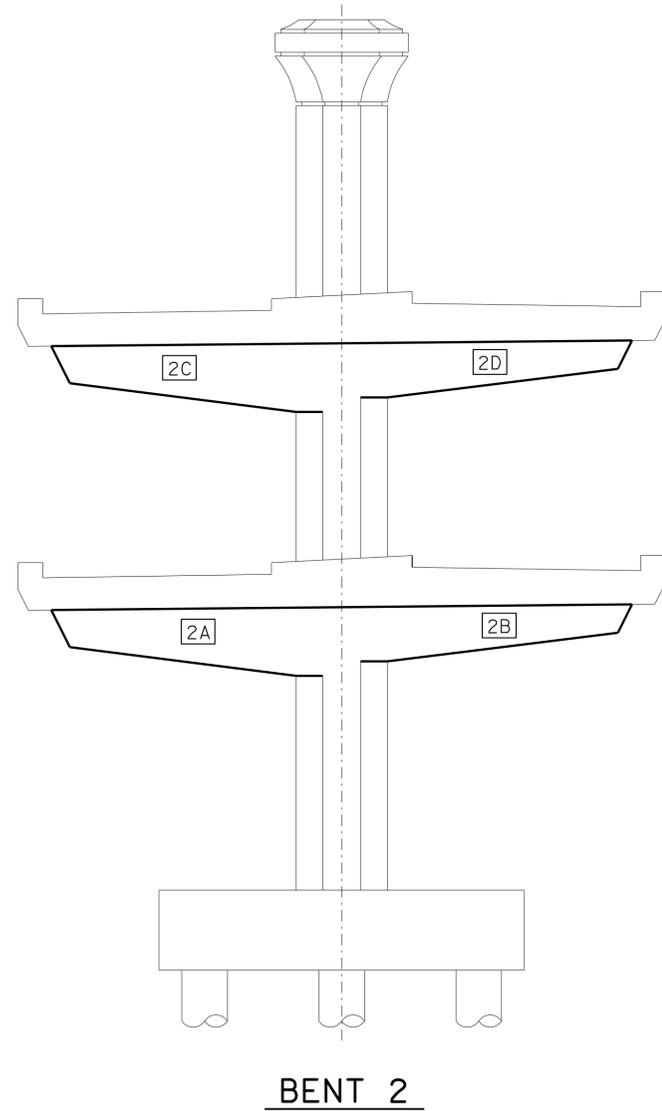
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	956	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE

3-26-12
 PLANS APPROVAL DATE

Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA

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**SOUTH RAMP
ELEVATION**

1/4" = 1'-0"

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER LAYOUT NO. 1
	DETAILS	BY T. Trefz	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			REVISION DATES		
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	05-17-11 08-27-11 11-10-11	SHEET 54 OF 101

Notes:
 1. All Bent elevations shown looking ahead on bent numbering sequence (Northeast)

Legend:
 [XXX] Indicates Cantilever designation

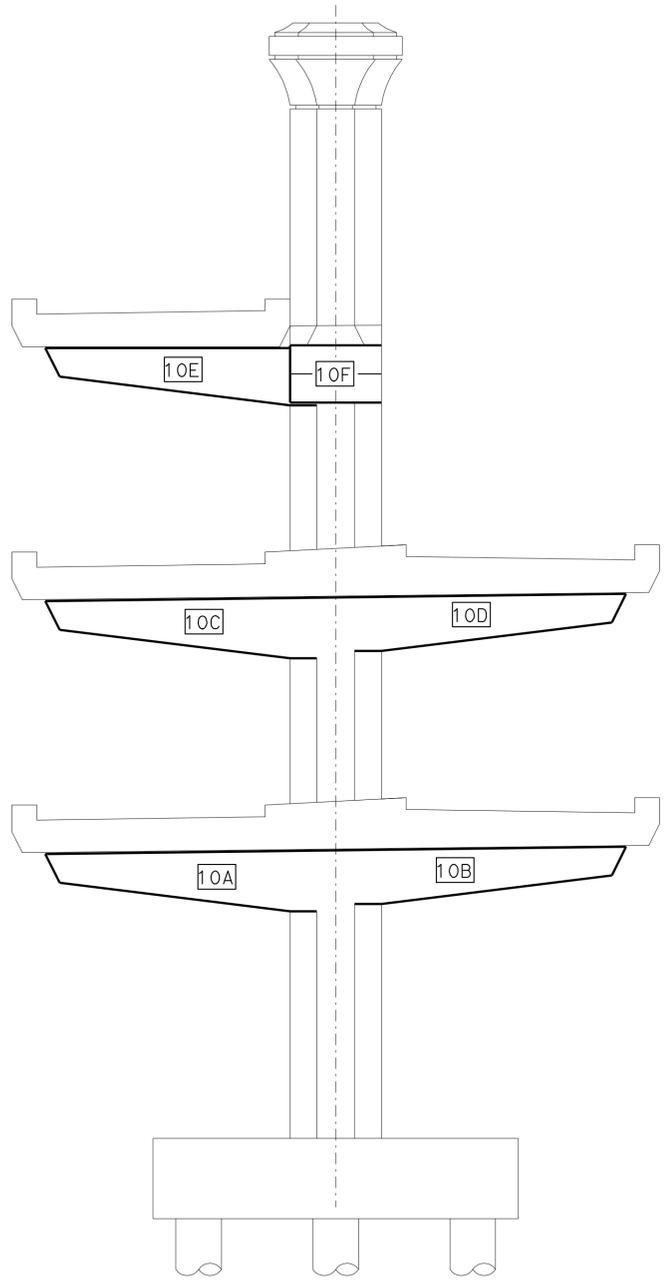
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	957	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE

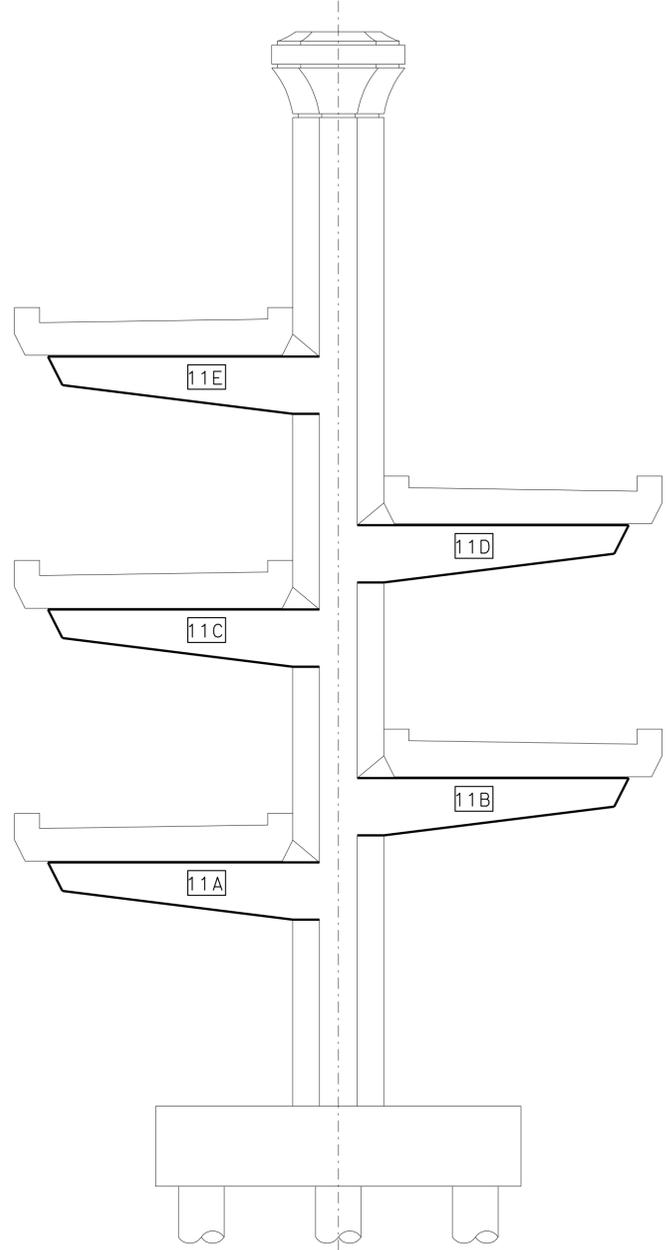
3-26-12
 PLANS APPROVAL DATE

Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
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 STATE OF CALIFORNIA

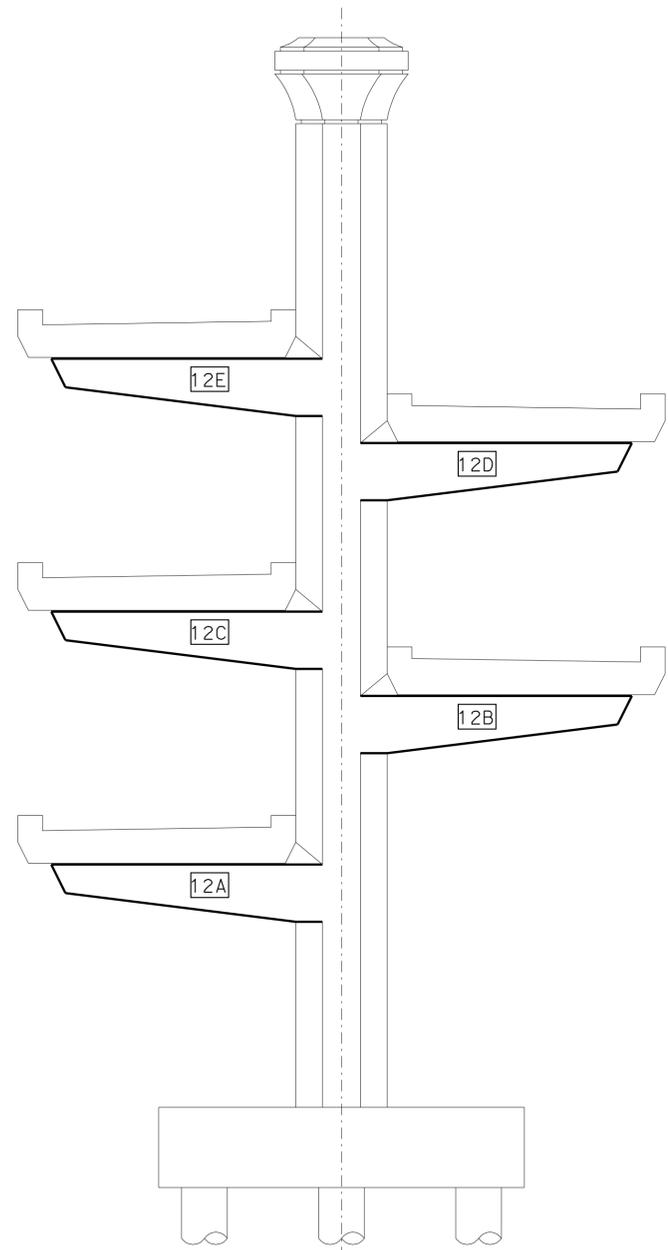
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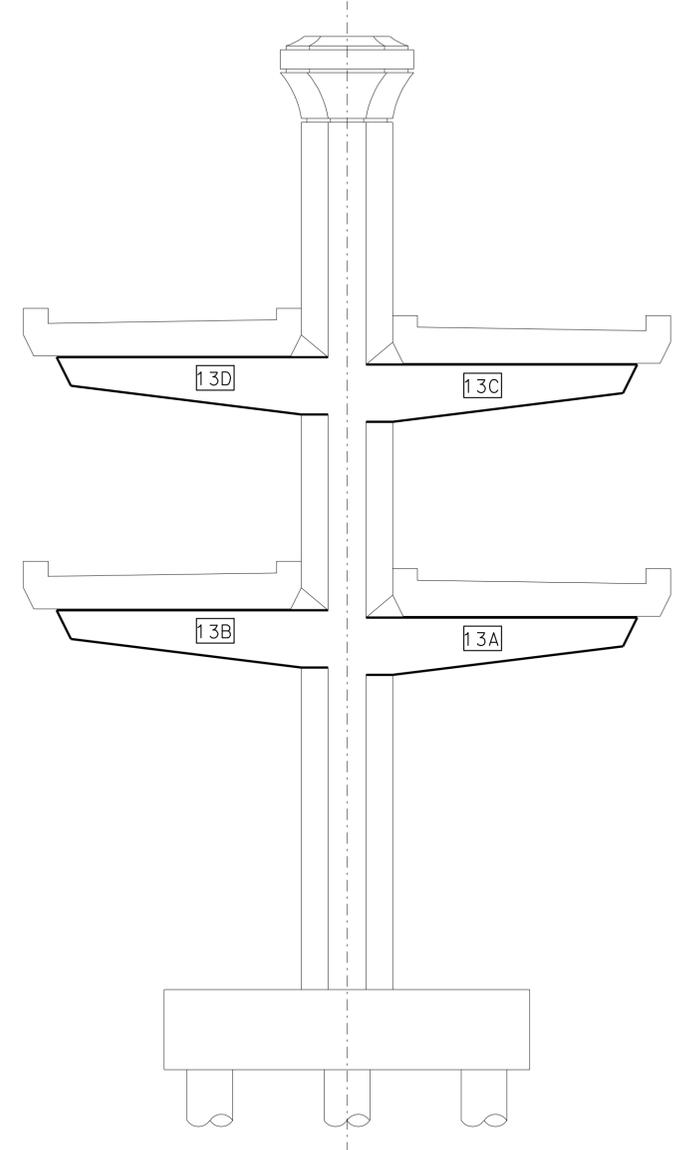
BENT 10



BENT 11



BENT 12



BENT 13

NORTH RAMP
ELEVATION

1/4" = 1'-0"

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY T. Trefz	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

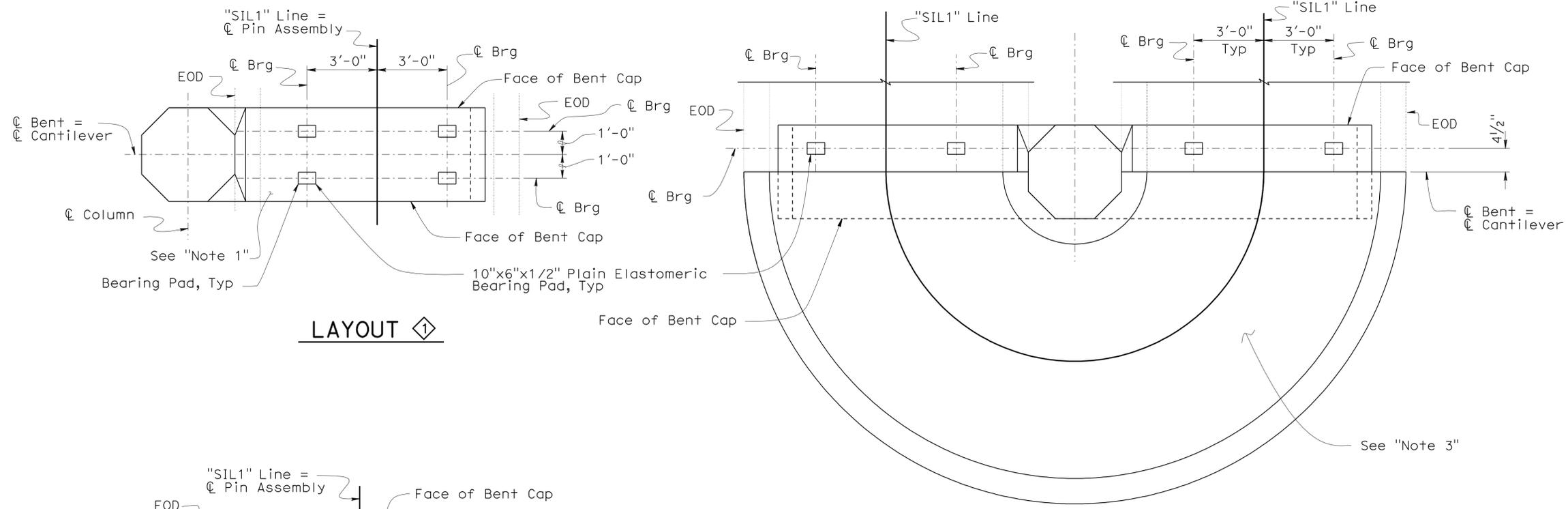
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 RAMP-BENT CANTILEVER LAYOUT NO. 2

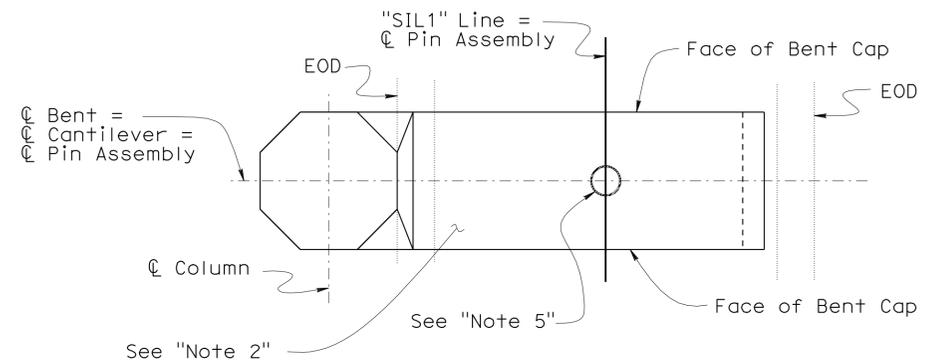
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	958	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
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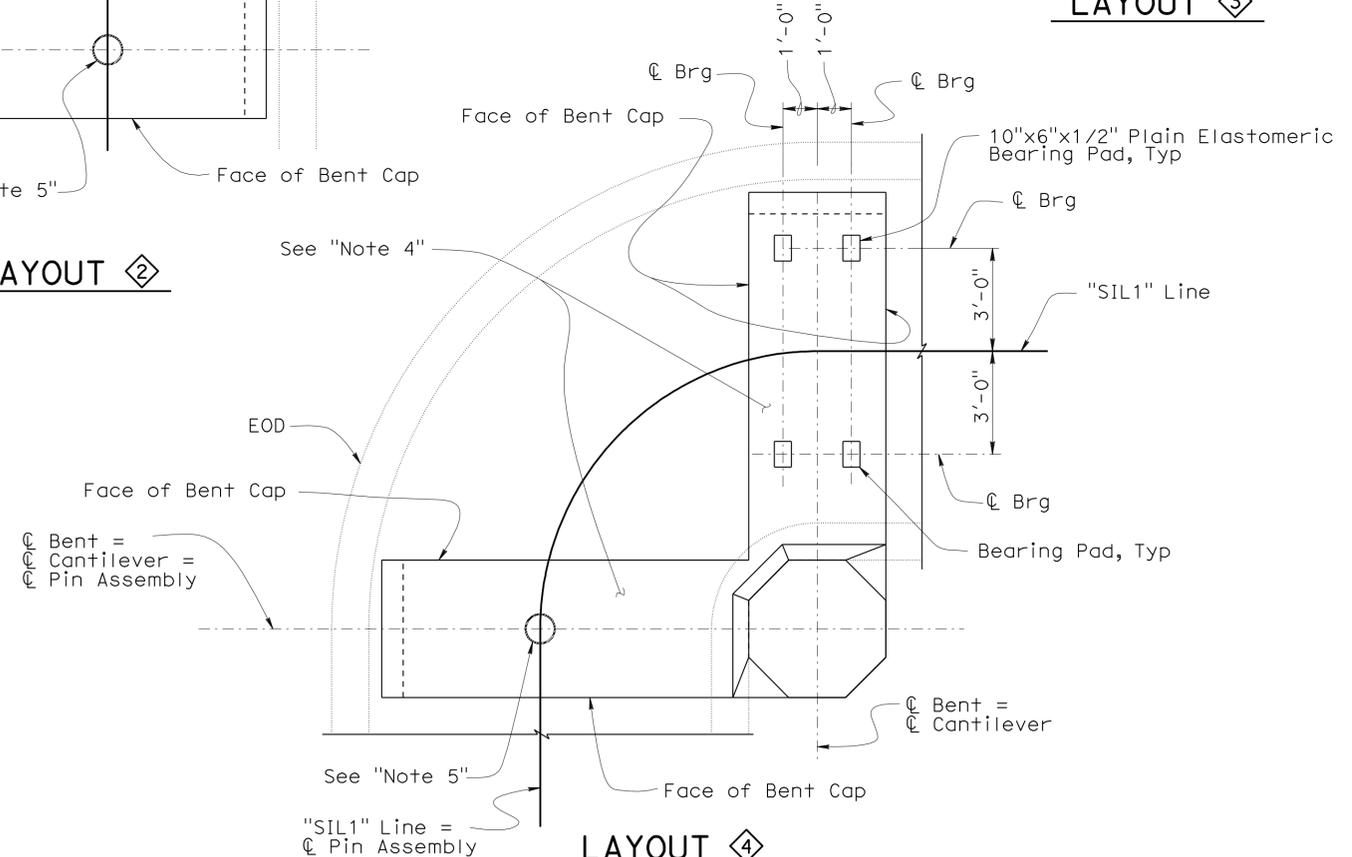


LAYOUT 1

LAYOUT 3



LAYOUT 2



LAYOUT 4

PLAN
 3/8" = 1'-0"

BENT LAYOUT TABLE

CANTILEVER	LAYOUT TYPE
2A & 2B	3
2C & 2D	3
3A	2
3B	2
3C	2
3D	2
4A	1
4B	2
4C	2
4D	2
5A & 5B	3
5C	1
10A & 10B	3
10C & 10D	3
10E & 10F	4
11A	2
11B	2
11C	2
11D	2
11E	2
12A	1
12B	2
12C	2
12D	2
12E	2
13A & 13B	3
13C & 13D	3

- Notes:
1. Cantilever 4A shown, others similar. See "BENT LAYOUT TABLE".
 2. Cantilever 3A shown, others similar. See "BENT LAYOUT TABLE".
 3. Cantilever 2A & 2B shown, others similar. See "BENT LAYOUT TABLE".
 4. Cantilevers 10E and 10F only.
 5. For "Pin Assembly" details, see "PIN ASSEMBLY DETAILS" sheets.

Legend:
 XX XXX Indicates Cantilever designation
 \diamond Indicates Layout Type

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

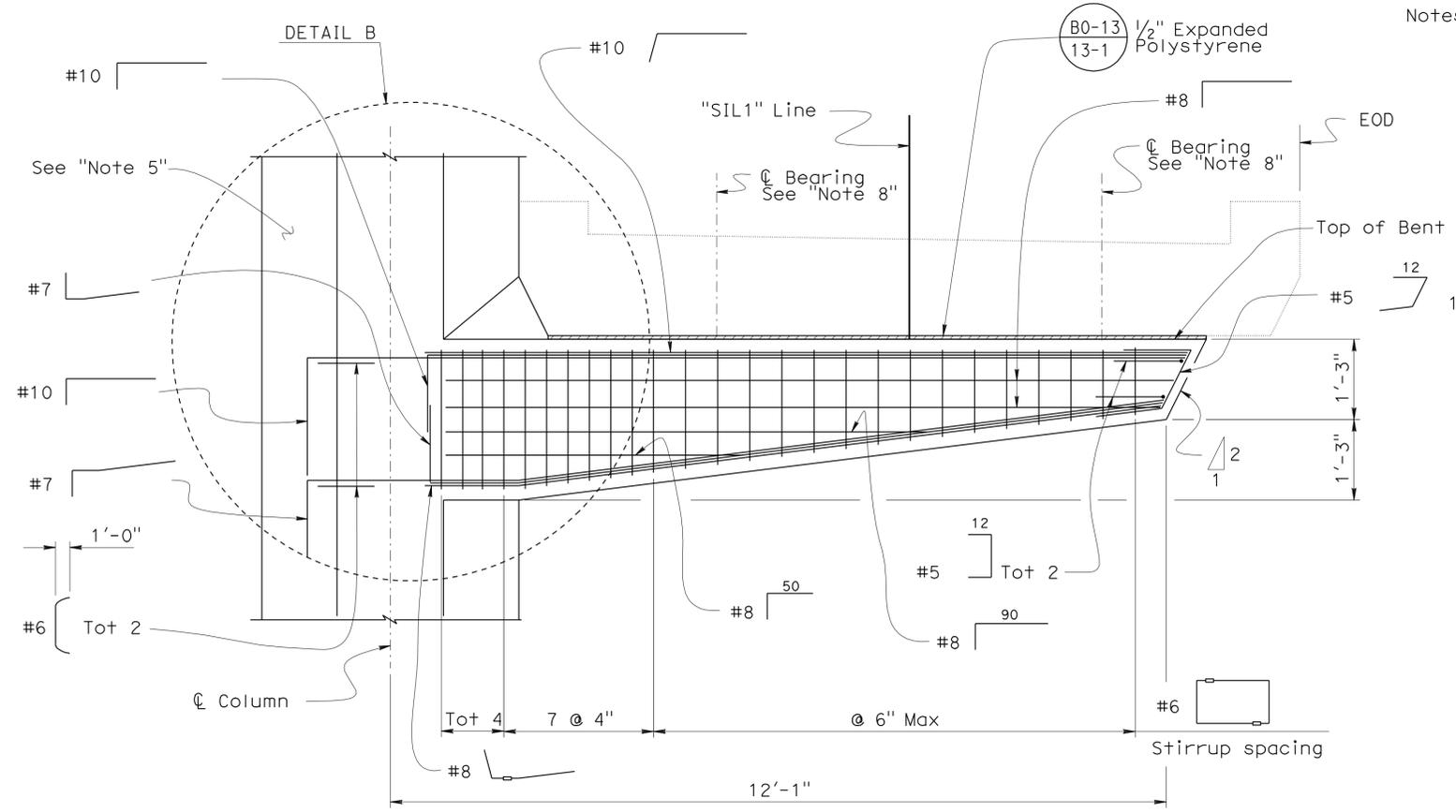
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

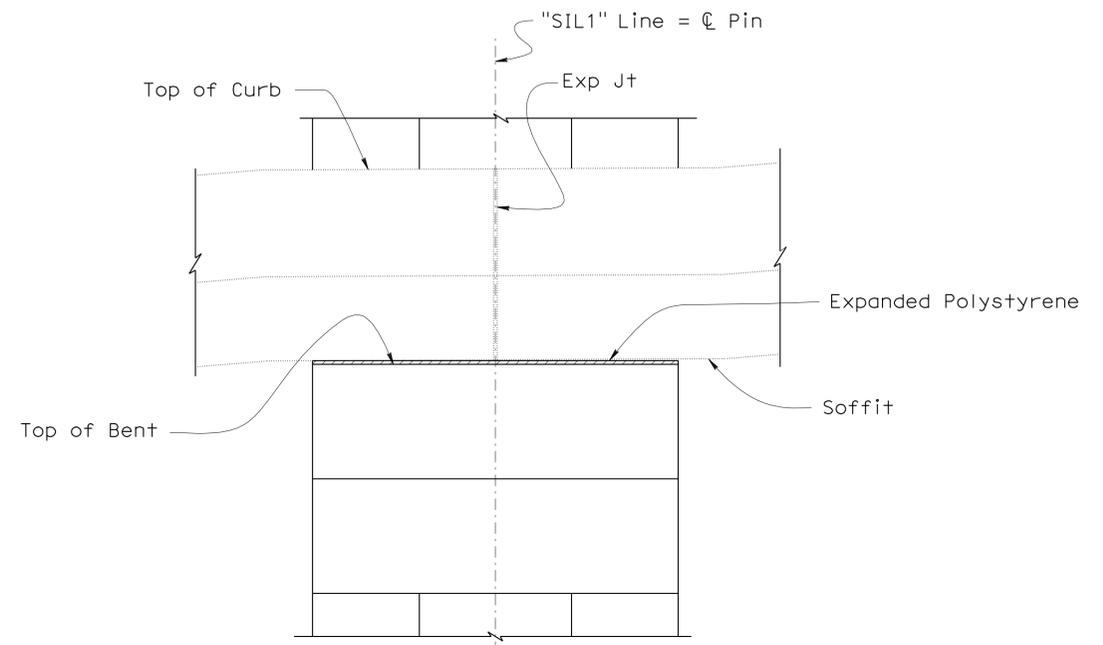
SILVERBOW AVENUE PEDESTRIAN OC
 RAMP-BENT CANTILEVER LAYOUT NO. 3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	959	1288
Andrew P. Rittenhouse		12-12-11		REGISTERED CIVIL ENGINEER DATE	
3-26-12		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>					

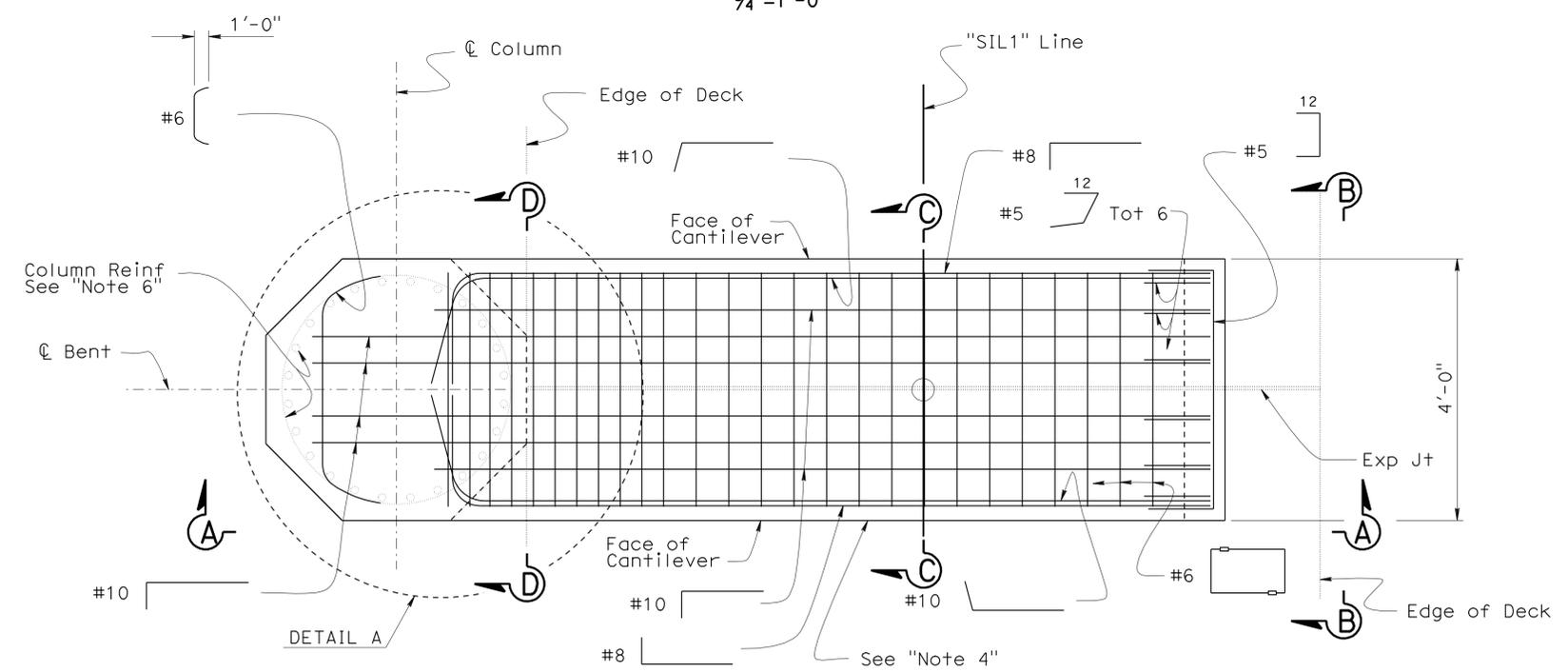
- Notes:
- Bent 4 shown, Bent 12 similar.
 - Stirrups shall be made continuous by Ultimate Splice.
 - Bar to be made continuous by Ultimate Splice to allow rotation of the hook in vertical plane.
 - Top Reinf shown, Bottom Reinf similar.
 - Column Reinf not shown for clarity.
 - Column Reinf shown in dim line for clarity.
 - 105° hooks shall have the same tail length as 90° hooks.
 - For bearing layout, see "RAMP-BENT CANTILEVER LAYOUT NO. 3" sheet.
 - For Exp Jt details, see "EXP JT DETAIL (MR=1/2)" on "MISCELLANEOUS DETAILS" sheet.
 - For "SECTION C-C", "DETAIL A" and "DETAIL B", see "RAMP-BENT CANTILEVER DETAILS NO. 2" sheet.



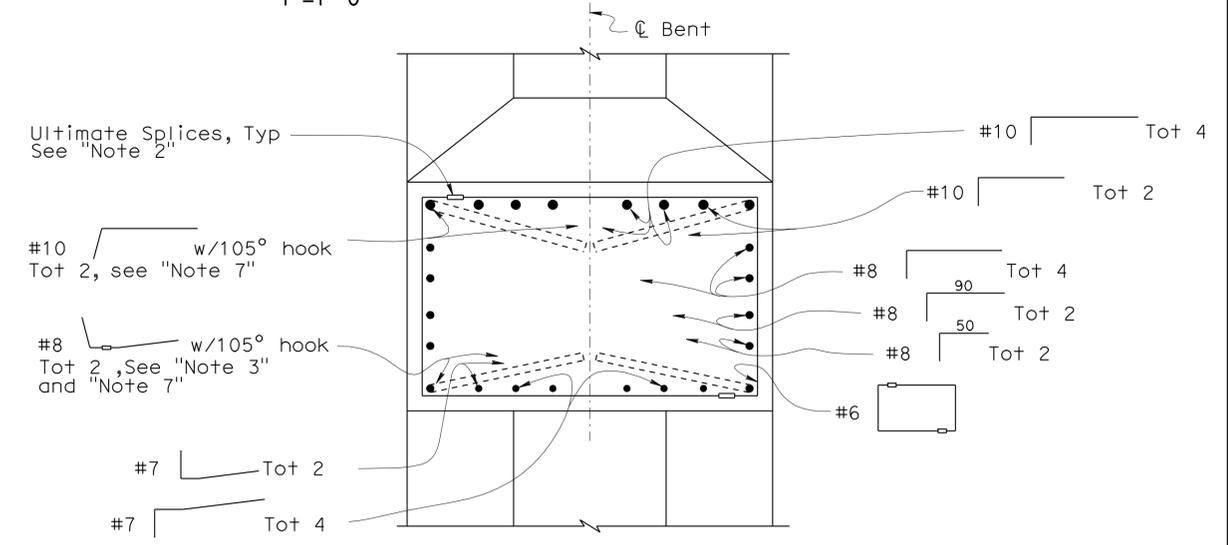
VIEW A-A
3/4" = 1'-0"



VIEW B-B
1" = 1'-0"



PLAN
3/4" = 1'-0"



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

BENTS 4 & 12
CANTILEVERS 4A & 12A

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

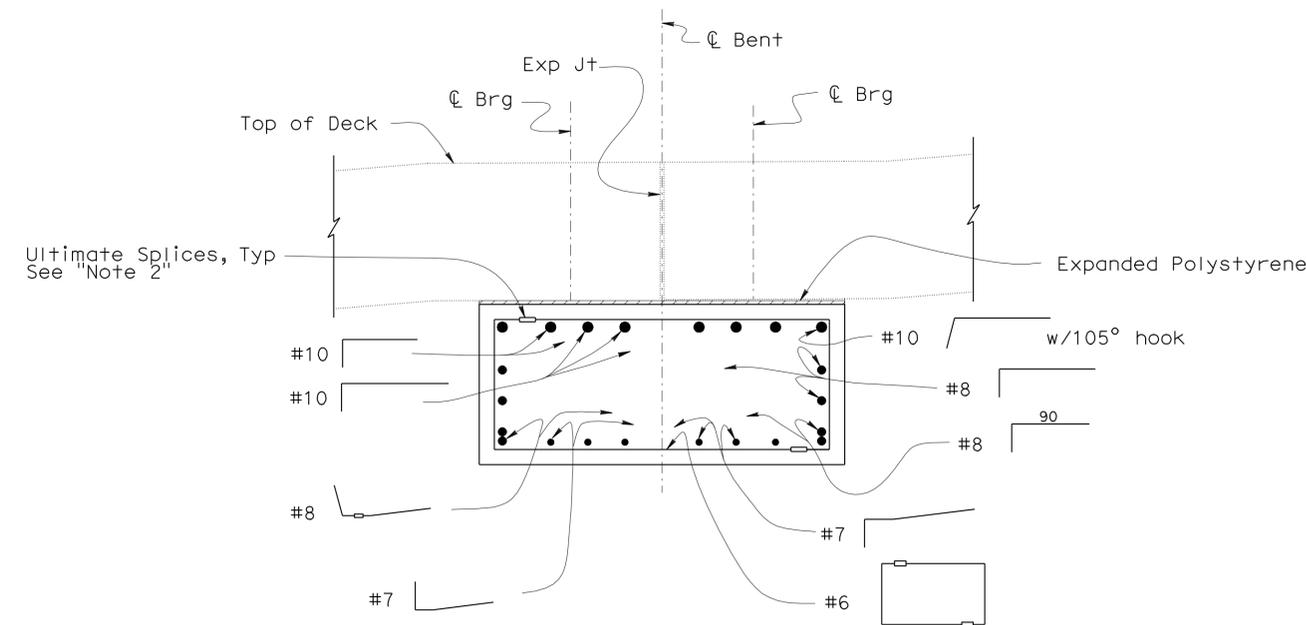
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **15**

BRIDGE NO. 53-3043
POST MILE 3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 1

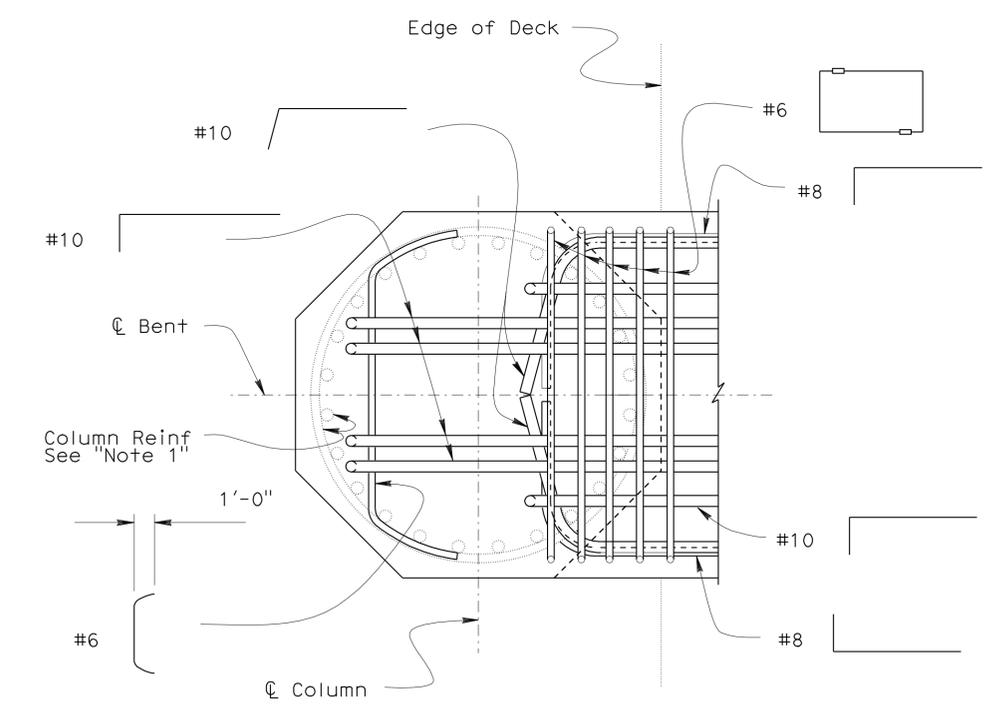
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	960	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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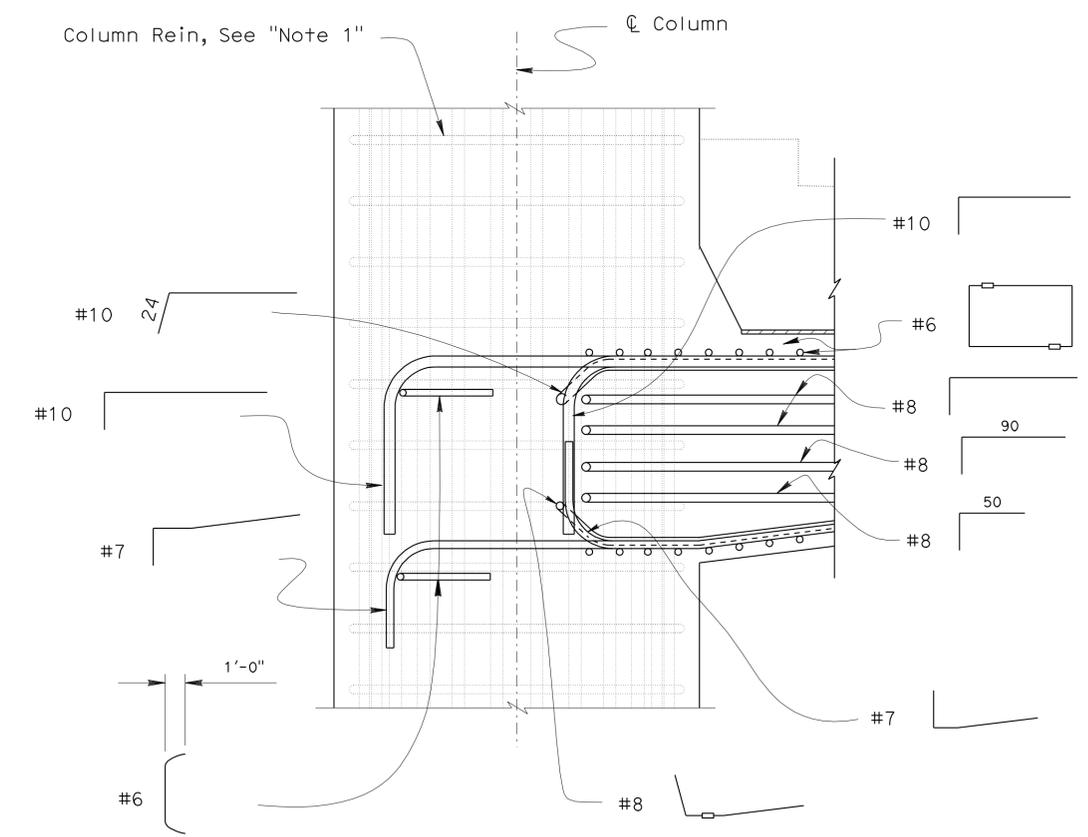


SECTION C-C
1"=1'-0"

- Note:
1. Column Reinf shown in dim line for clarity.
 2. Stirrups shall be made continuous by Ultimate Splice.
 3. For Exp Jt details, see "EXP JT DETAIL (MR=1/2)" on "MISCELLANEOUS DETAILS" sheet.
 4. For bearing layout, see "RAMP-BENT CANTILEVER LAYOUT NO. 3" sheet



DETAIL A
1"=1'-0"



DETAIL B
1"=1'-0"

BENTS 4 & 12
CANTILEVERS 4A & 12A

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 2

REVISION DATES	SHEET	OF
4-06-11 7-15-11 7-15-11 7-29-11 8-26-11 11-30-11 01-03-12	58	101

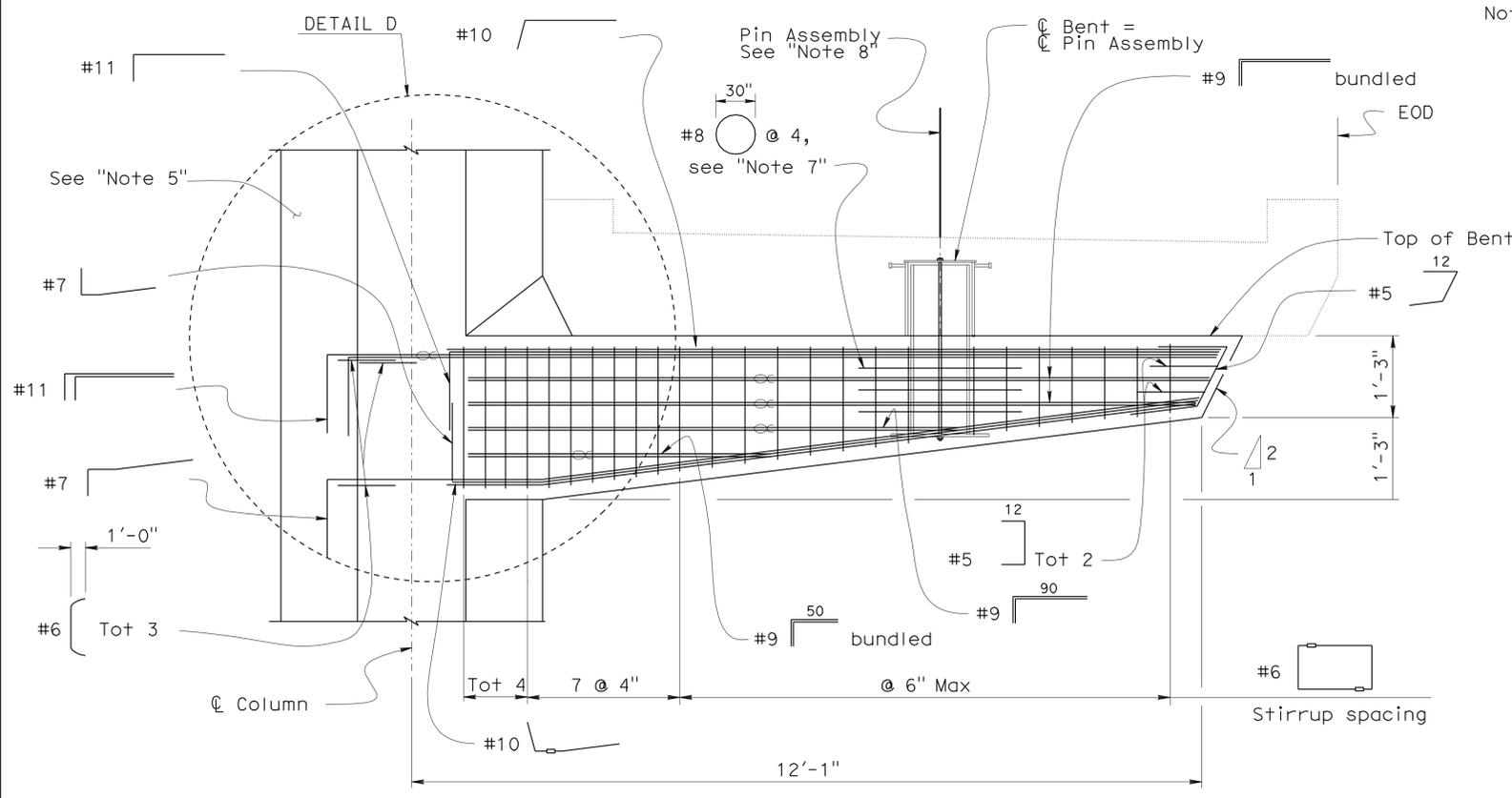
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	961	1288
REGISTERED CIVIL ENGINEER		DATE			
Andrew P. Rittenhouse		12-12-11			
No. 61006		PLANS APPROVAL DATE			
Exp. 12-31-12		3-26-12			
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

Notes:

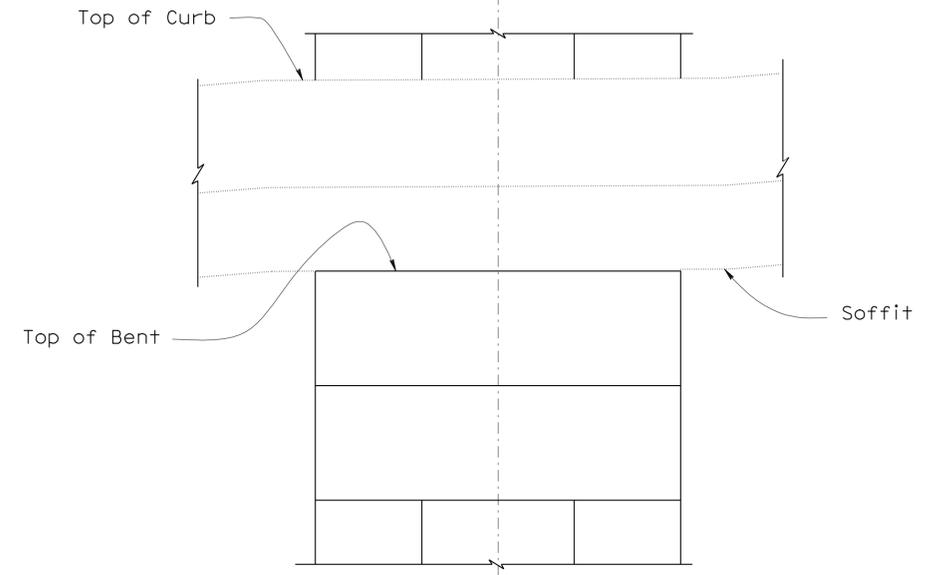
- Bent 3 shown, Bent 11 similar.
- Stirrups shall be made continuous by Ultimate Splice.
- Bar to be made continuous by Ultimate Splice to allow rotation of the hook in vertical plane.
- Top Reinf shown. Bottom Reinf similar.
- Column Reinf not shown for clarity.
- Column Reinf shown in dim line for clarity.
- Hoops shall be made continuous by Ultimate Splice.
- For Pin Assembly details see "PIN ASSEMBLY DETAILS" sheets.
- 105° hooks shall have the same tail length as 90° hooks.
- For "SECTION C-C", "DETAIL C" and "DETAIL D", see "RAMP-BENT CANTILEVER DETAILS NO. 4" sheet.

Legend:

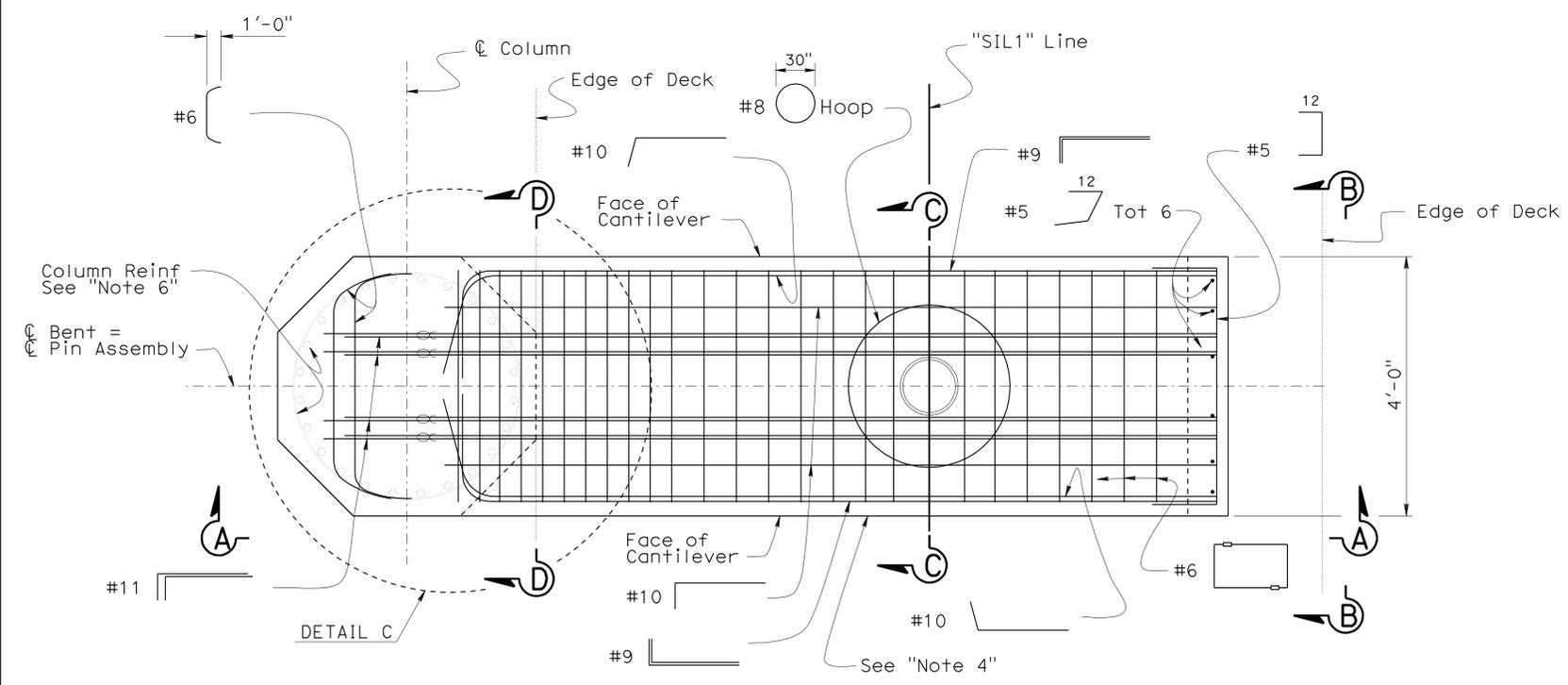
⊗ Indicates bundled bars
 "SIL1" Line = ⊗ Pin



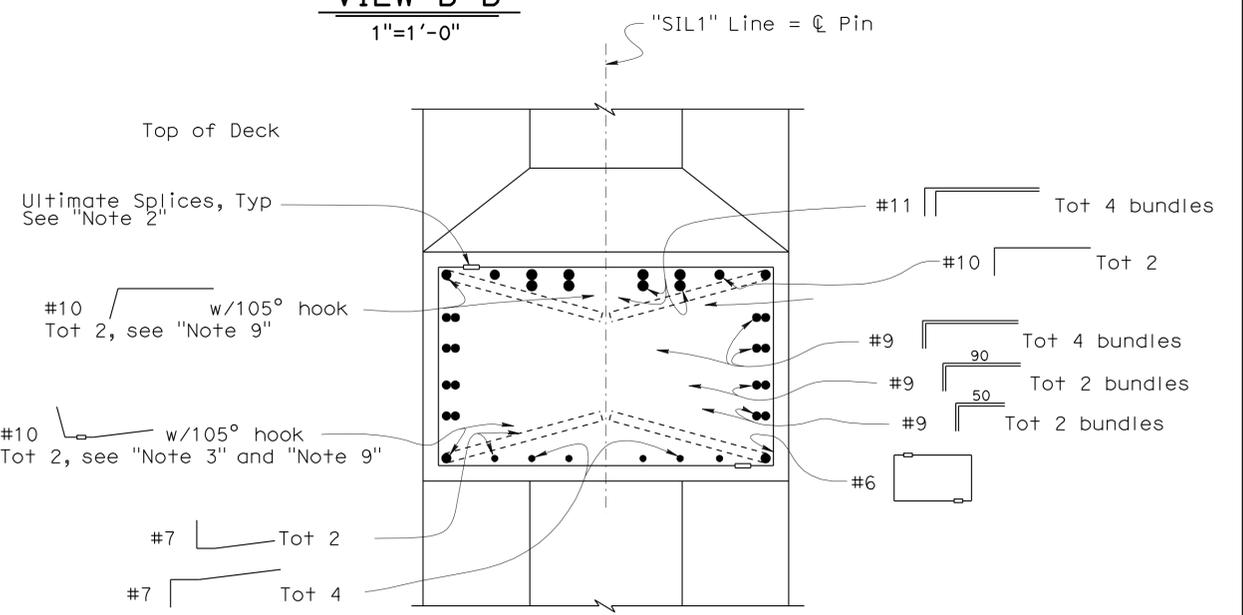
VIEW A-A
 3/4" = 1'-0"



VIEW B-B
 1" = 1'-0"



PLAN
 3/4" = 1'-0"



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

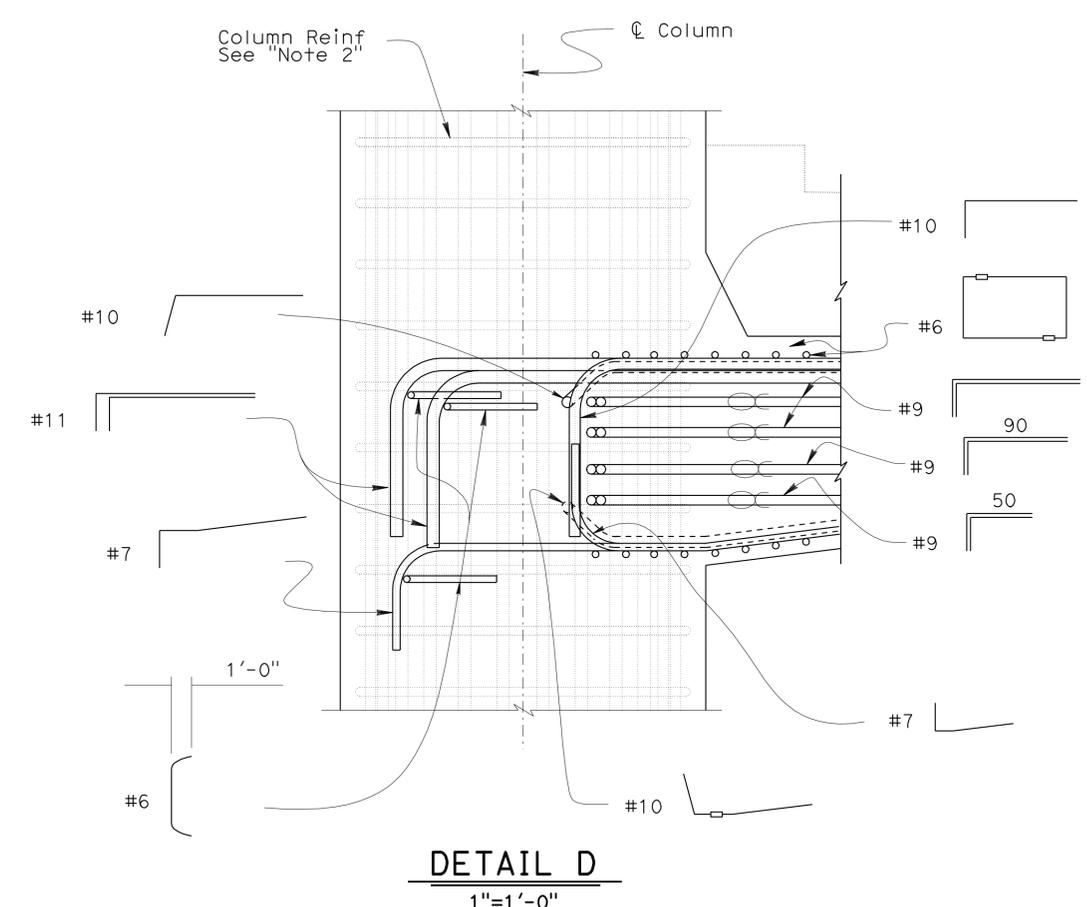
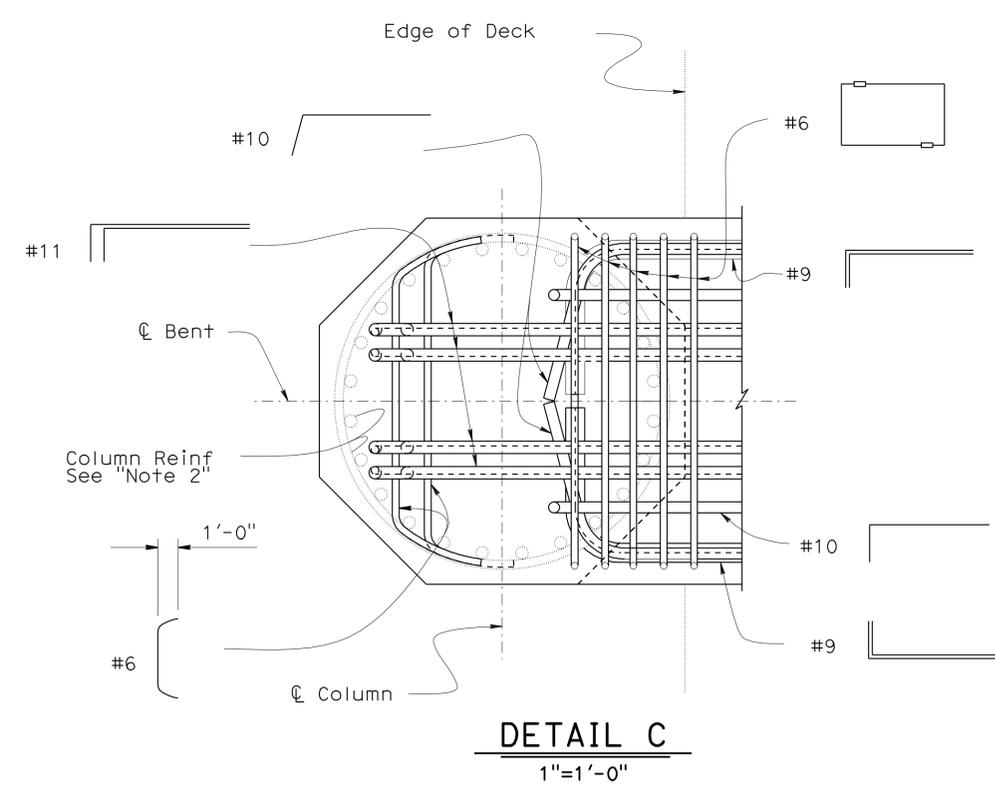
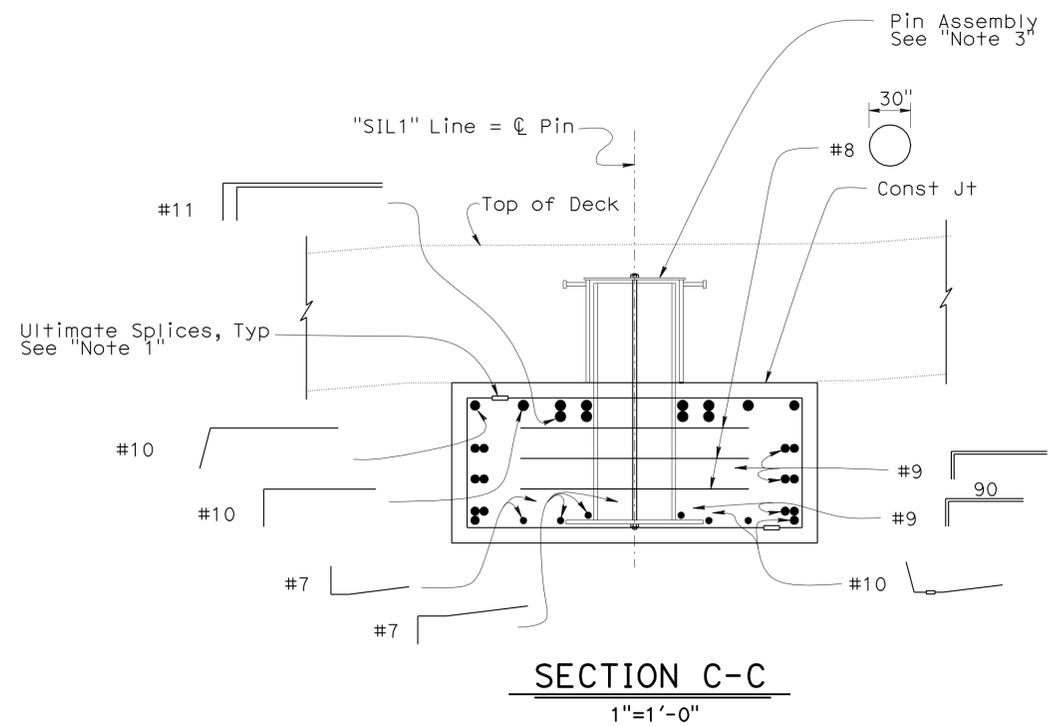
**BENTS 3 & 11
 CANTILEVERS 3A & 11A**

DESIGN	BY	H. Setberg	CHECKED	Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 3	
	DETAILS	BY	S. Cholda	CHECKED			Laith Bahia	POST MILE		3.97
	QUANTITIES	BY	T. Trefz/H. Setberg	CHECKED			H. Setberg/R. Novik	REVISION DATES		8-22-10 1-15-11 7-19-11 8-26-11 9-08-11 10-31-11 11-10-11
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)						CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 59 OF 101	

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	962	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
 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.



- Notes:
- Stirrups shall be made continuous by Ultimate Splices.
 - Column Reinf shown in dim line for clarity.
 - For Pin Assembly details, see "PIN ASSEMBLY DETAILS" sheets.
- Legend:
- ∞ Indicates bundled bars

**BENTS 3 & 11
CANTILEVERS 3A & 11A**

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

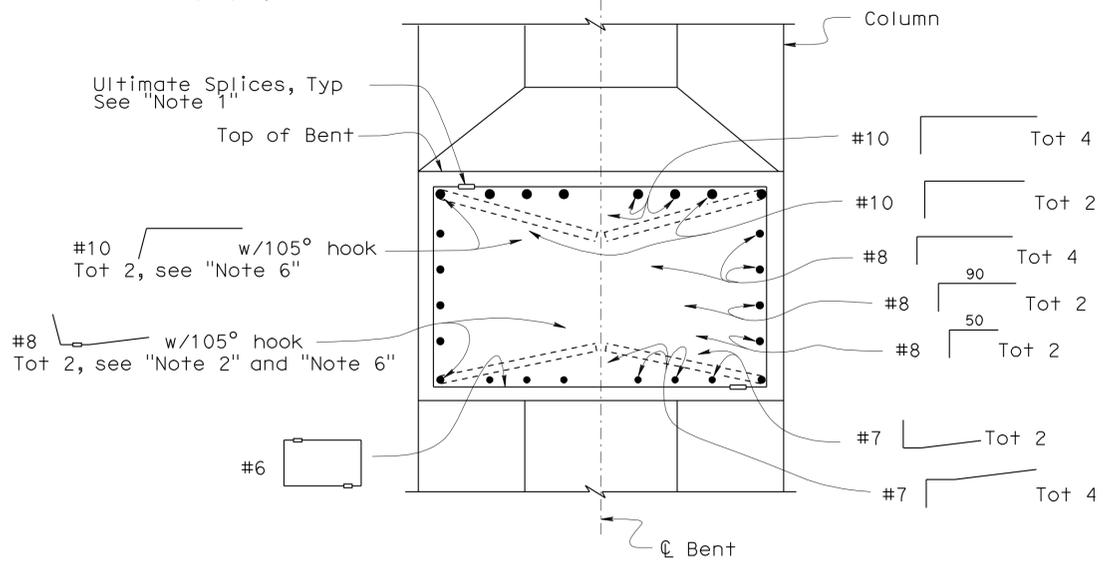
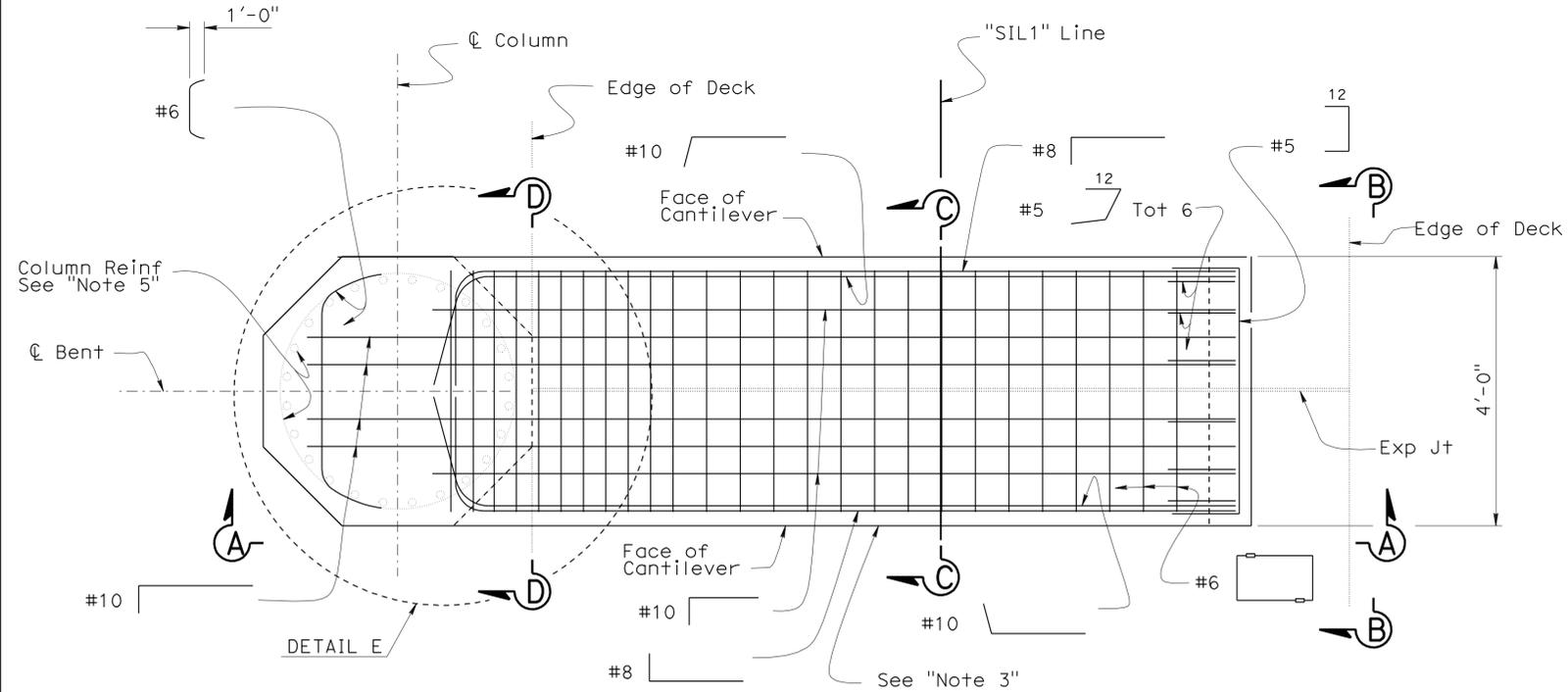
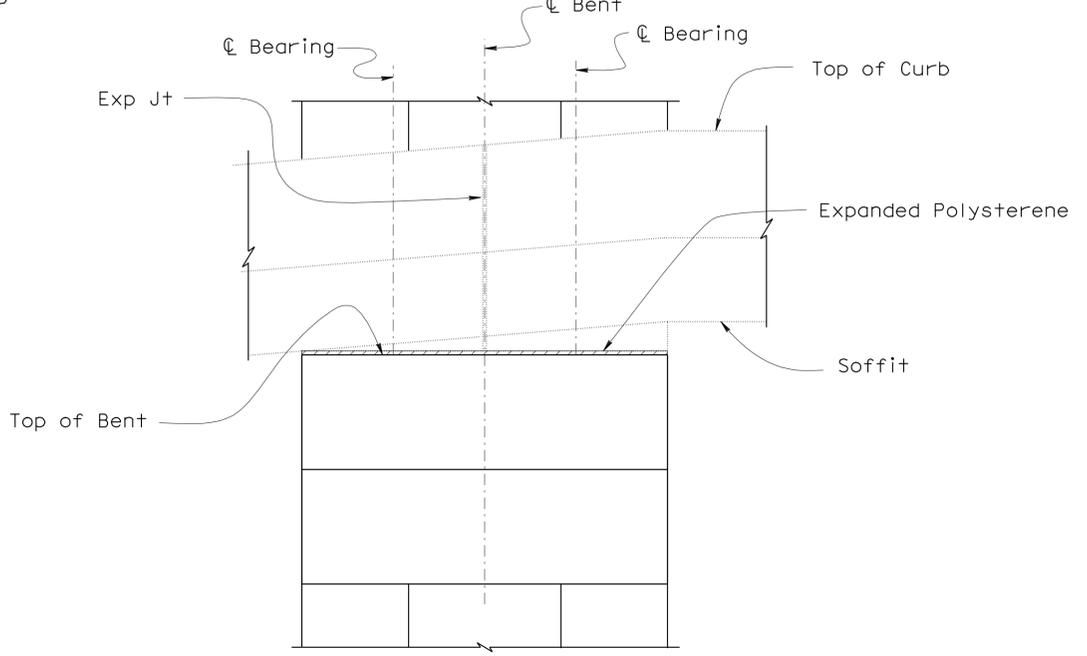
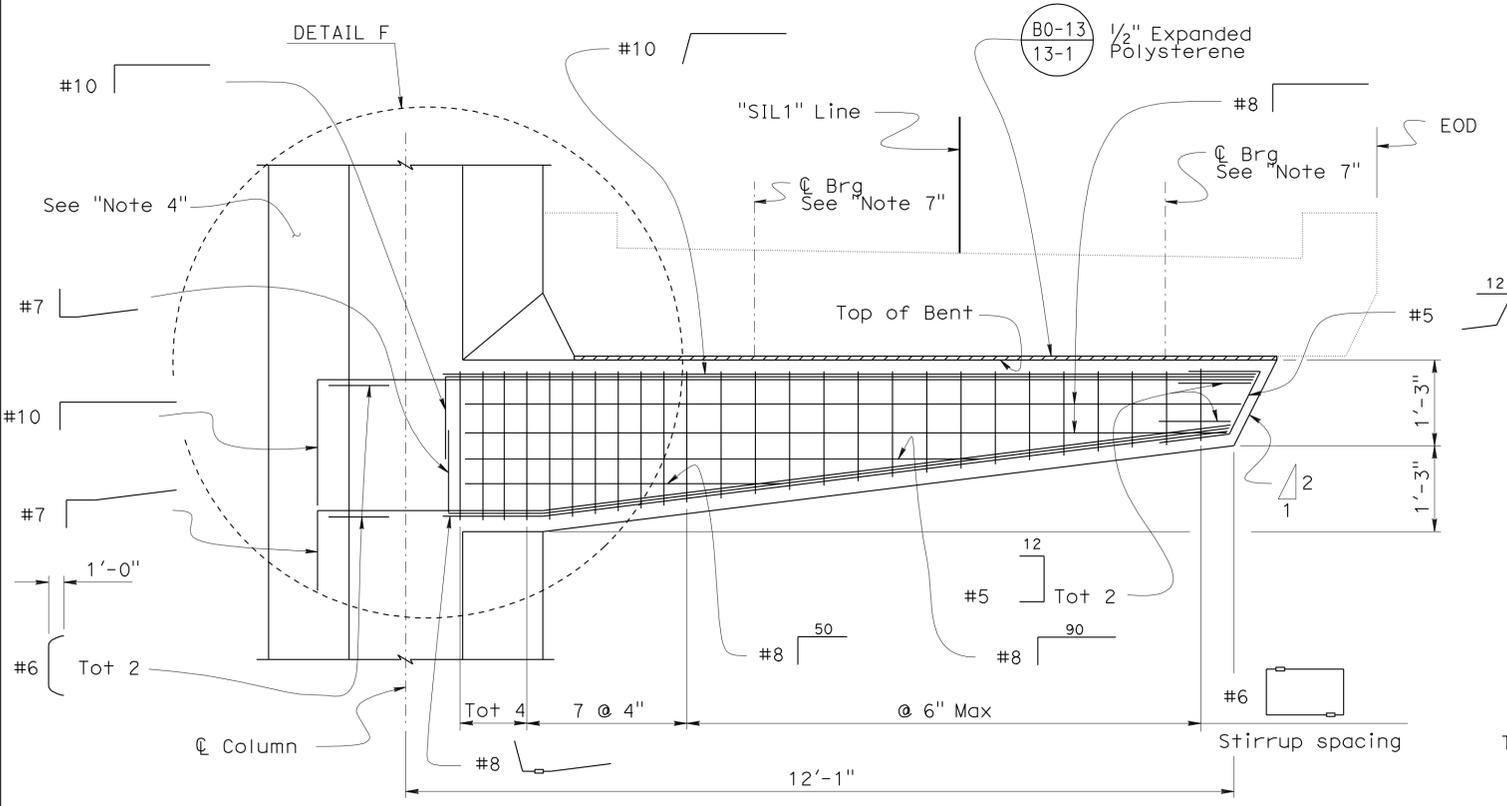
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 4

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	963	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			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. Stirrups shall be made continuous by Ultimate Splice.
 2. Bar to be made continuous by Ultimate Splice to allow rotation of the hook in vertical plane.
 3. Top Reinf shown. Bottom Reinf similar.
 4. Column Reinf not shown for clarity.
 5. Column Reinf shown in dim line for clarity.
 6. 105° hooks shall have the same tail length as 90° hooks.
 7. For bearing layout, see "RAMP-BENT CANTILEVER LAYOUT NO. 3" sheet.
 8. For Exp Jt details, see "EXP JT DETAIL (MR=1/2)" on "MISCELLANEOUS DETAILS" sheet.
 9. For "SECTION C-C", "DETAIL E" and "DETAIL F", see "RAMP-BENT CANTILEVER DETAILS NO. 6" sheet.

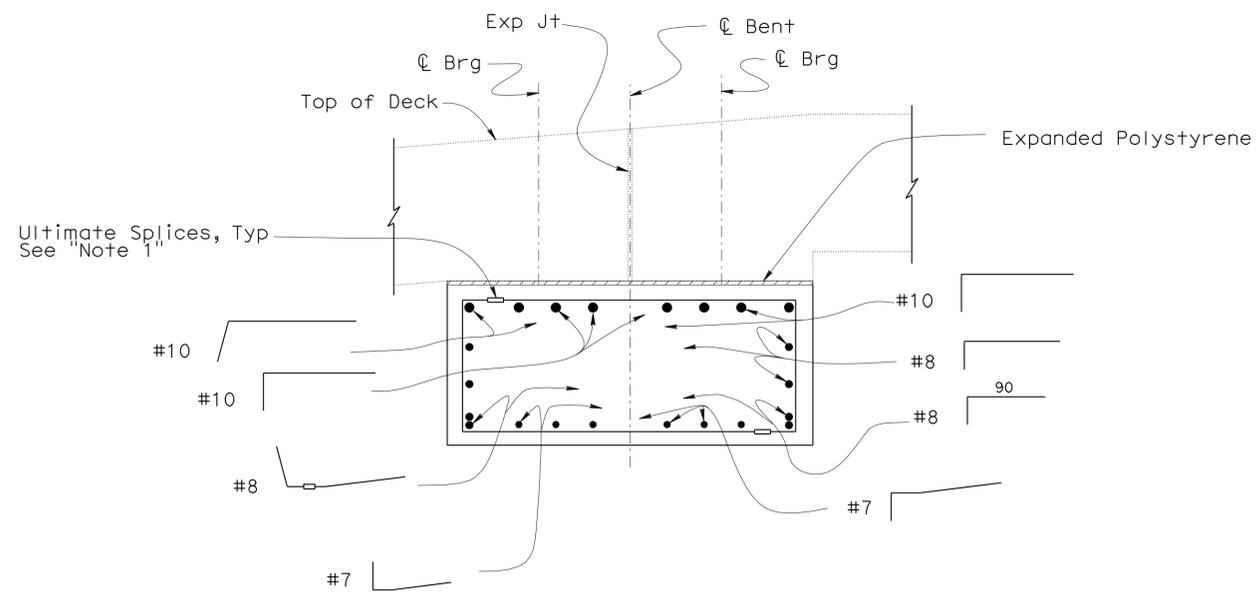


**BENT 5
CANTILEVER 5C**

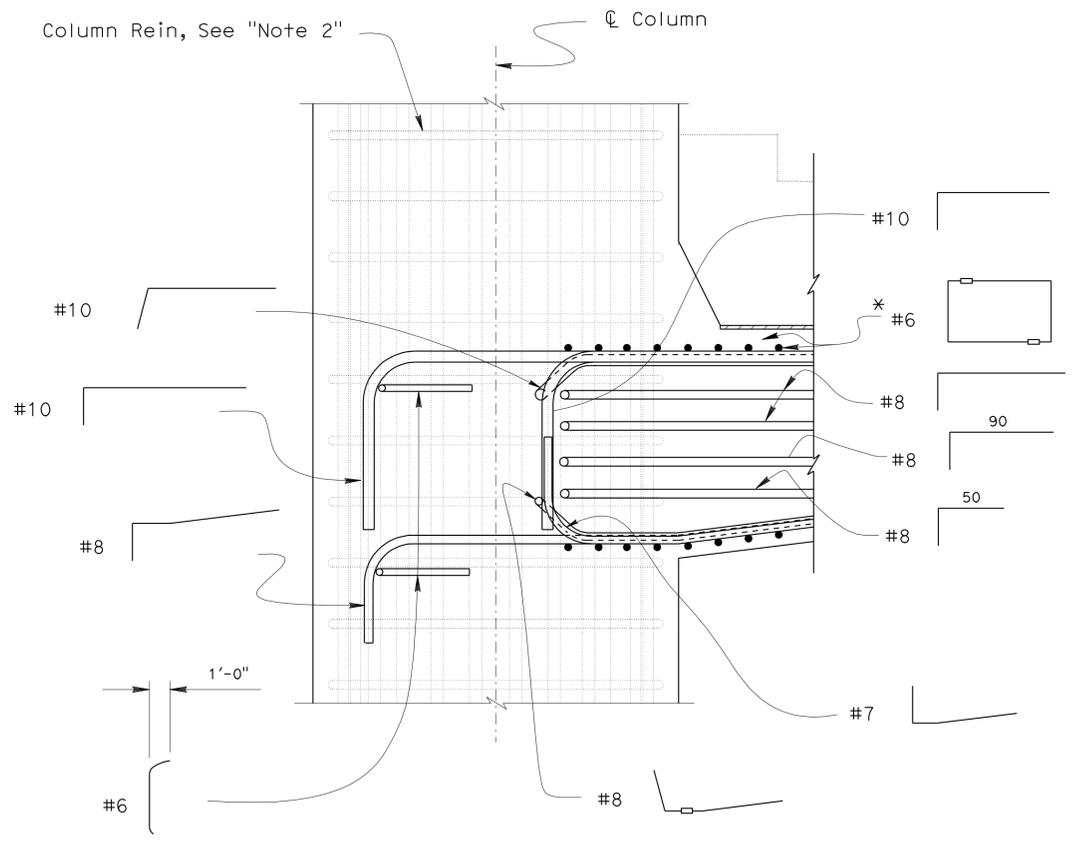
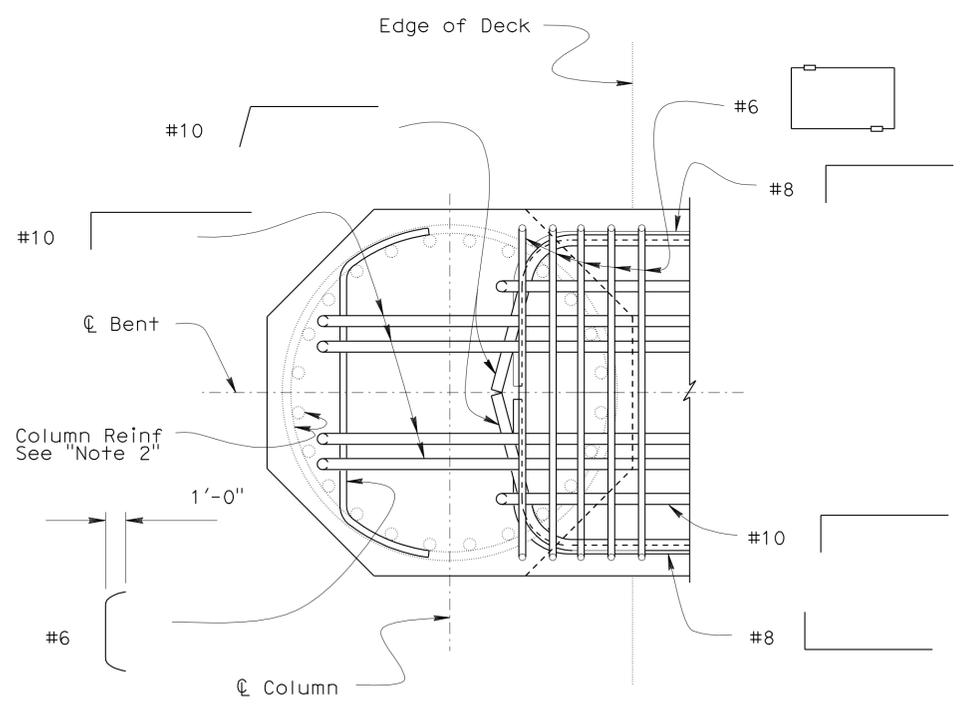
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 5
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	REVISION DATES	
SHEET 61 OF 101								

USERNAME => s135318 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:53

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	964	1288
		REGISTERED CIVIL ENGINEER DATE			
		3-26-12			
		PLANS APPROVAL DATE			
		No. 61006			
		Exp. 12-31-12			
		CIVIL			
<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:
1. Stirrups shall be made continuous by Ultimate Splice.
 2. Column Reinf shown in dim line for clarity.
 3. For Exp Jt details, see ""EXP JT DETAIL (MR=1/2)"" on ""MISCELLANEOUS DETAILS"" sheet.
 4. For bearing layout, see ""RAMP-CANTILEVER LAYOUT NO. 3"" sheet.



BENT 5
CANTILEVER 5C

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

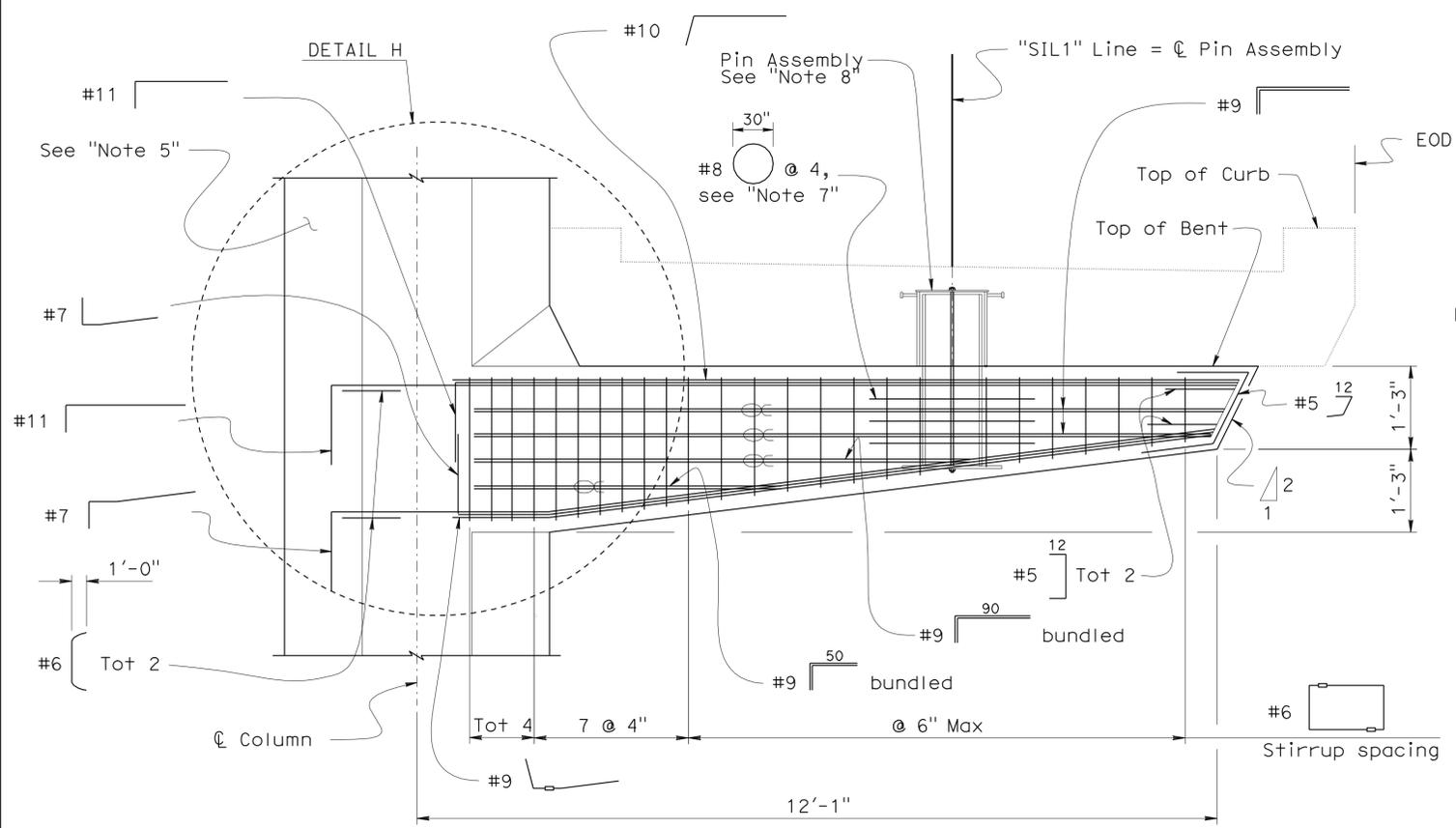
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

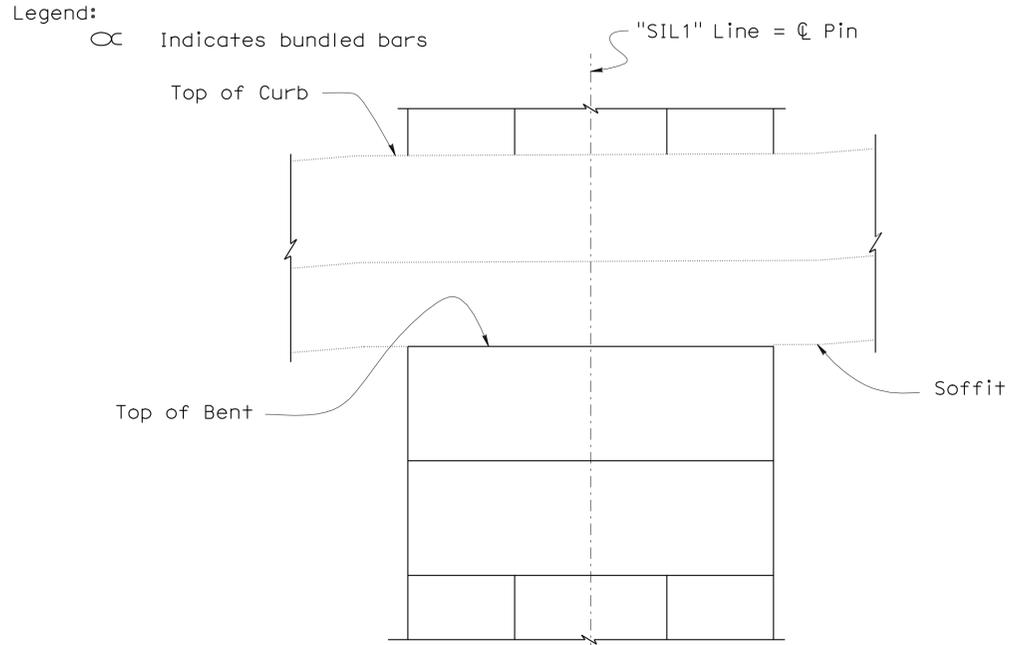
BRIDGE NO. 53-3043
POST MILE 3.97
SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 6

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	965	1288
Andrew P. Rittenhouse		12-12-11		REGISTERED CIVIL ENGINEER DATE	
3-26-12		PLANS APPROVAL DATE			
Andrew P. Rittenhouse		REGISTERED PROFESSIONAL ENGINEER			
No. 61006		Exp. 12-31-12			
CIVIL		STATE OF CALIFORNIA			
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.					

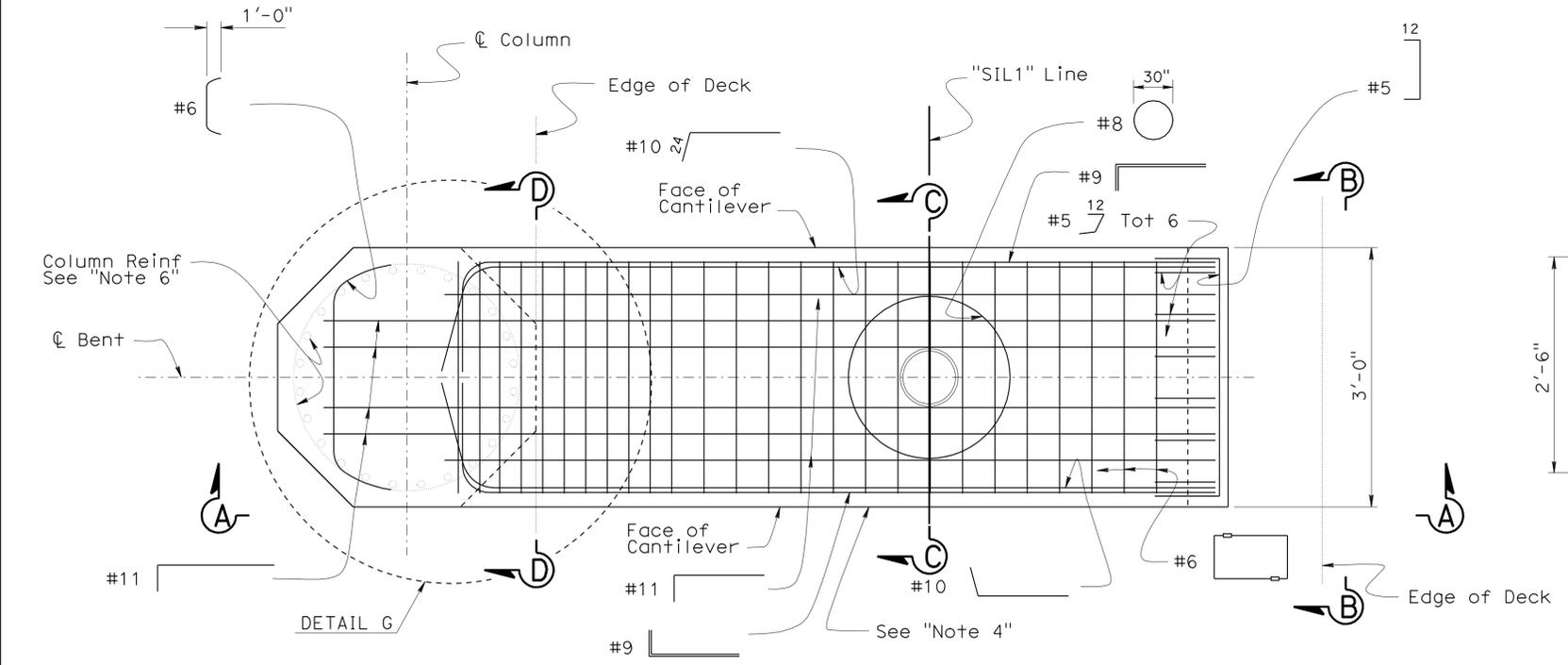
- Notes:
- Bents 3 and 4 shown, Bents 11 and 12 similar.
 - Stirrups shall be made continuous by Ultimate Splice.
 - Bar to be made continuous by Ultimate Splice to allow rotation of the hook in vertical plane.
 - Top Reinf shown. Bottom Reinf similar.
 - Column Reinf not shown for clarity.
 - Column Reinf shown in dim line for clarity.
 - Hoops shall be made continuous by Ultimate Splice.
 - For Pin Assembly details, see "PIN ASSEMBLY DETAILS" sheets.
 - 105° hooks shall have the same tail length as 90° hooks.
 - For "SECTION C-C", "DETAIL G" and "DETAIL H", see "RAMP-BENT CANTILEVER DETAILS NO. 8" sheet.



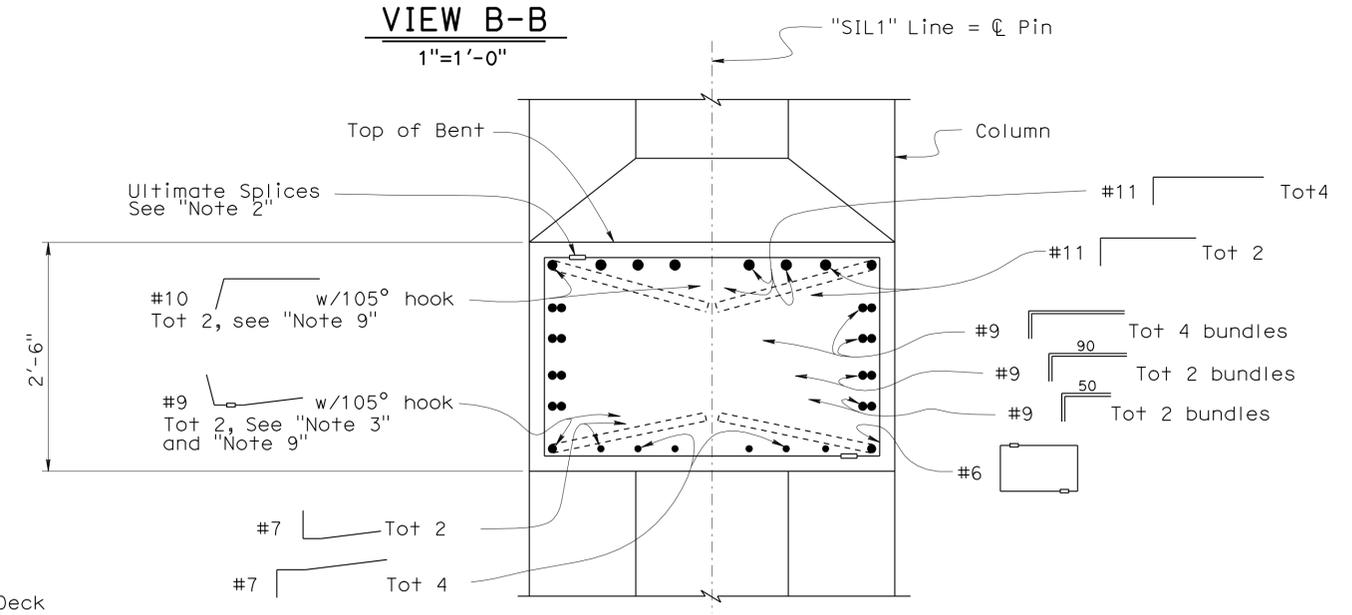
VIEW A-A
3/4" = 1'-0"



VIEW B-B
1" = 1'-0"



PLAN
3/4" = 1'-0"



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

BENTS 3, 4, 11, & 12
CANTILEVERS 3B, 3C, 3D, 4B, 4C, 4D, 11B, 11C, 11D, 11E, 12B, 12C, 12D, & 12E

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
POST MILE 3.97

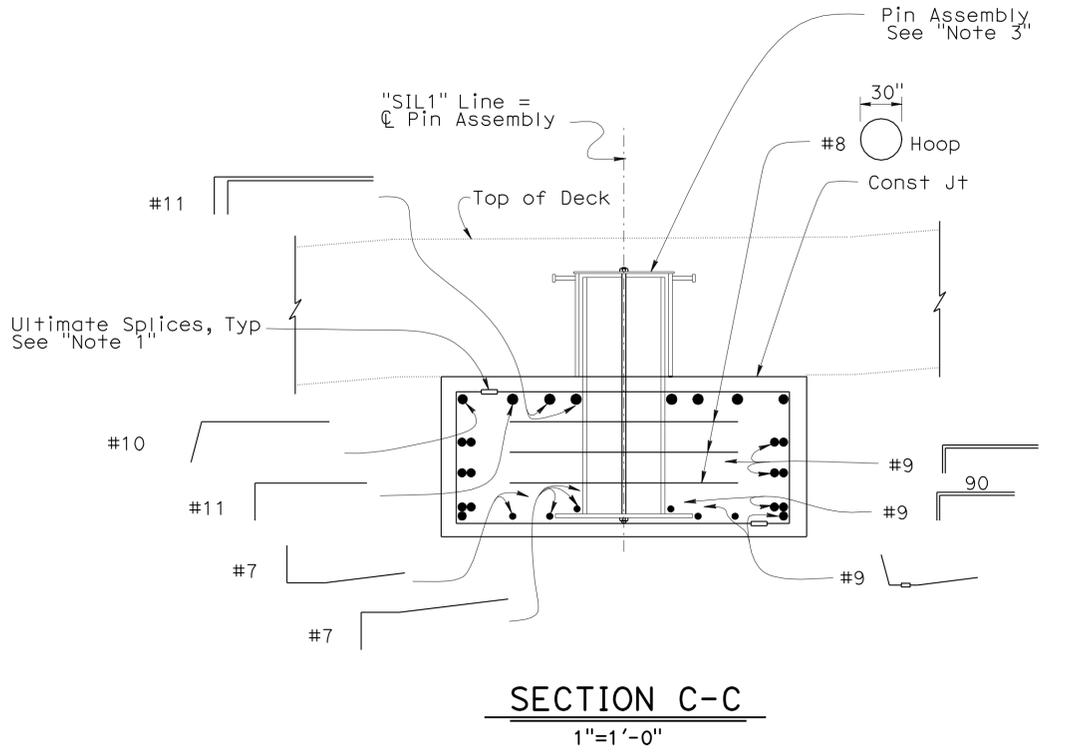
SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 7

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	966	1288

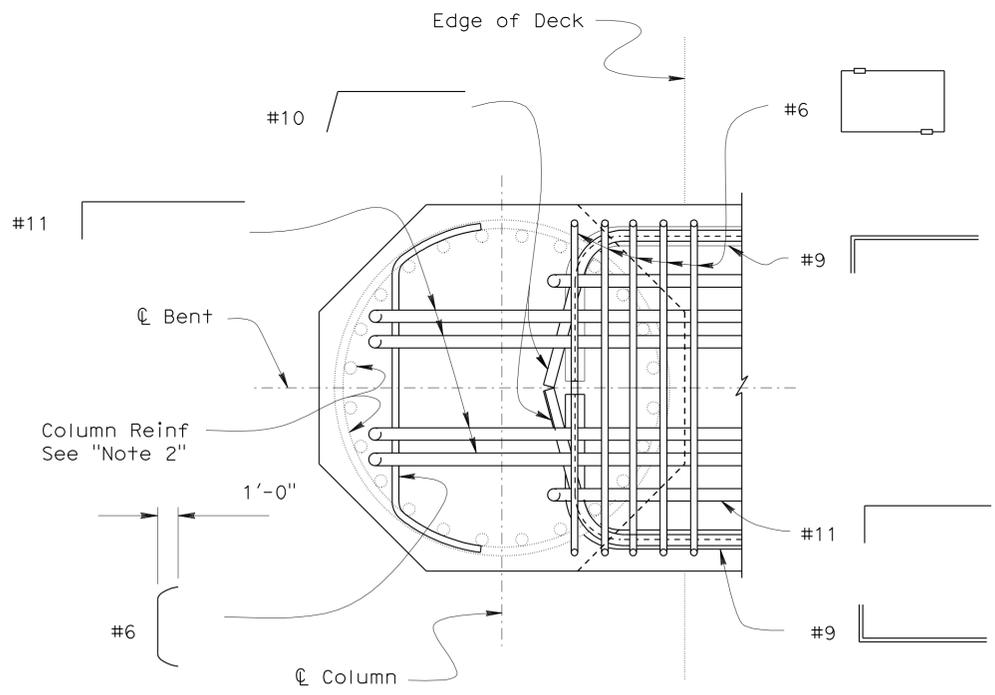
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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- Notes:
1. Stirrups shall be made continuous by Ultimate Splices.
 2. Column Reinf shown in dim line for clarity.
 3. For Pin Assembly details, see "PIN ASSEMBLY DETAILS" sheets.

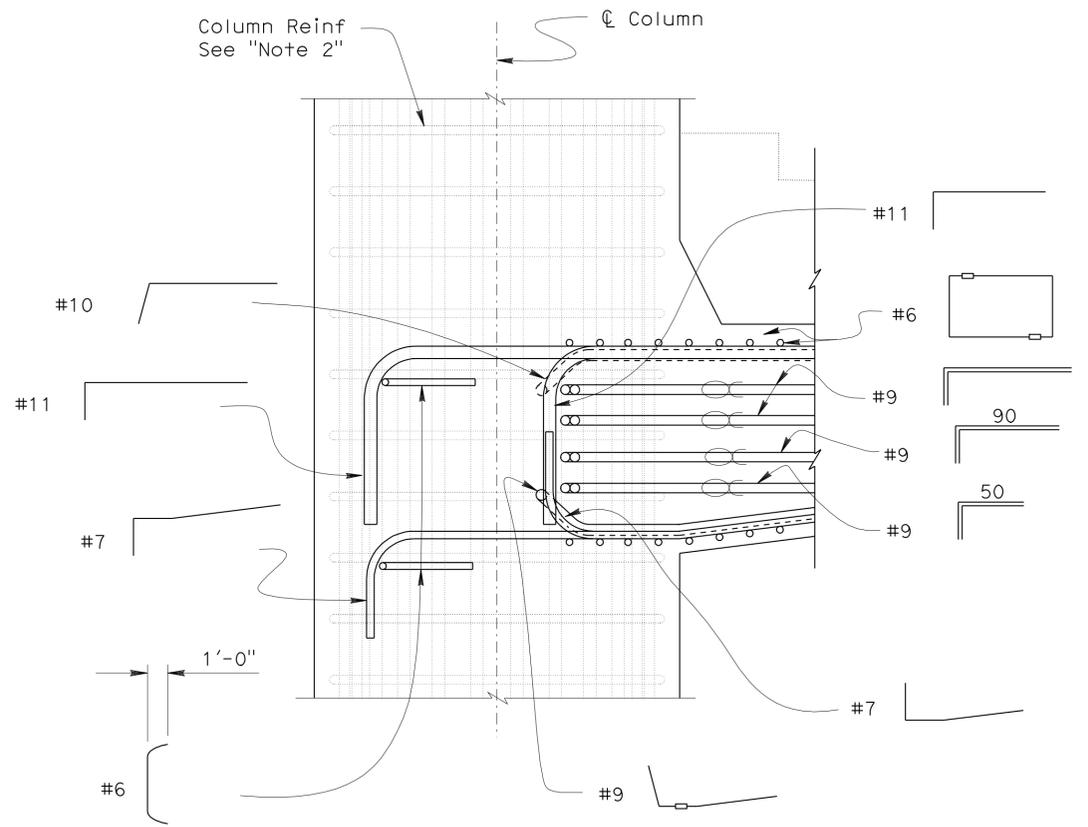
Legend:
 Indicates bundled bars



SECTION C-C
1"=1'-0"



DETAIL G
1"=1'-0"



DETAIL H
1"=1'-0"

Note:
 * Stirrups shown in section, for clarity
 Cross-section at C Bent shown, for clarity.

BENTS 3, 4, 11, & 12
CANTILEVERS 3B, 3C, 3D, 4B, 4C, 4D, 11B, 11C, 11D, 11E, 12B, 12C, 12D, & 12E

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 8

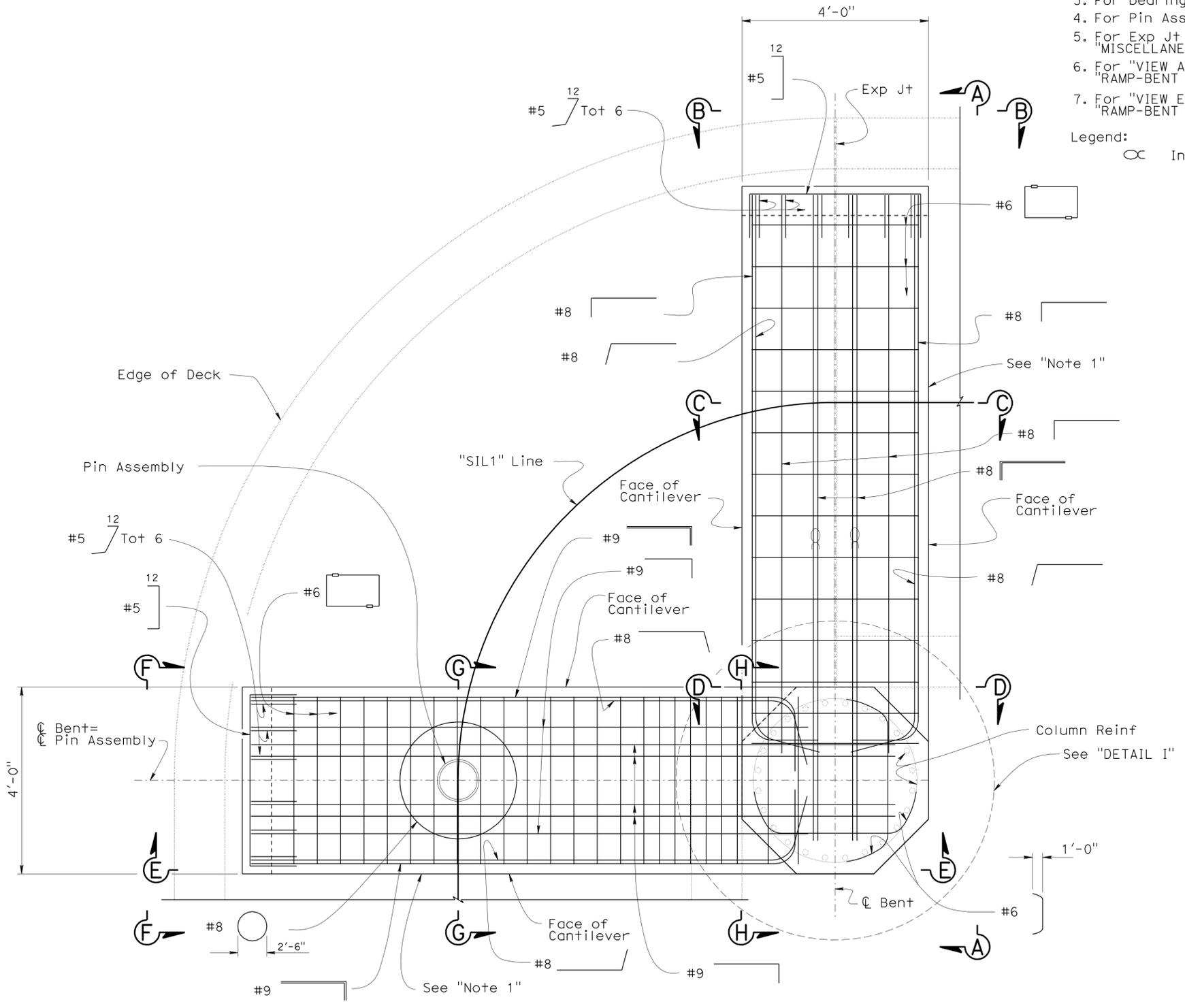
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	967	1288
REGISTERED CIVIL ENGINEER		DATE			
Andrew P. Rittenhouse		12-12-11			
PLANS APPROVAL DATE		3-26-12			
No. 61006		Exp. 12-31-12			
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		REGISTERED PROFESSIONAL ENGINEER		STATE OF CALIFORNIA	

Notes:

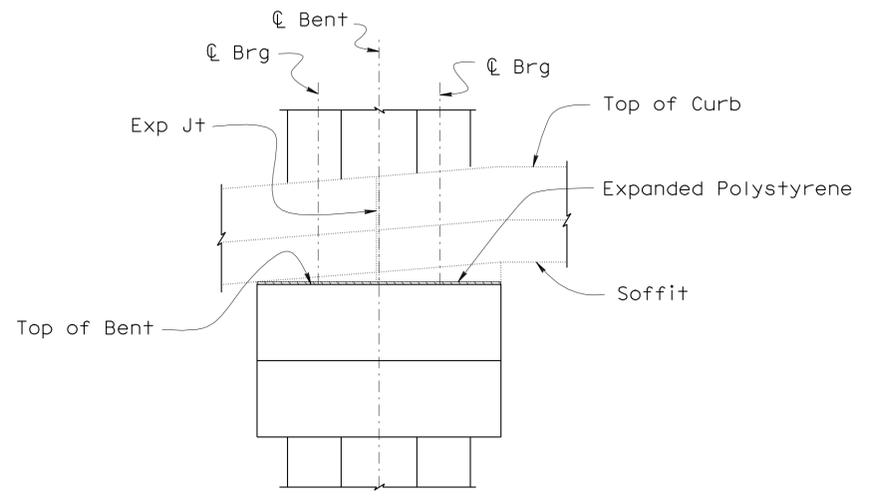
1. Top Reinforcement shown, Bottom Reinforcement similar.
2. Column reinforcement shown in dim line for clarity.
3. For bearing layout, see "RAMP-BENT CANTILEVER LAYOUT NO.3" sheet.
4. For Pin Assembly details, see "PIN ASSEMBLY DETAILS" sheet.
5. For Exp Jt details see "EXP JT DETAIL (MR = 1/2)" on "MISCELLANEOUS DETAILS" sheet.
6. For "VIEW A-A", "SECTION C-C" and "SECTION D-D", see "RAMP-BENT CANTILEVER DETAILS NO. 10" sheet.
7. For "VIEW E-E", "SECTION G-G" and "SECTION H-H", and "DETAIL I", see "RAMP-BENT CANTILEVER DETAILS NO. 11" sheet.

Legend:

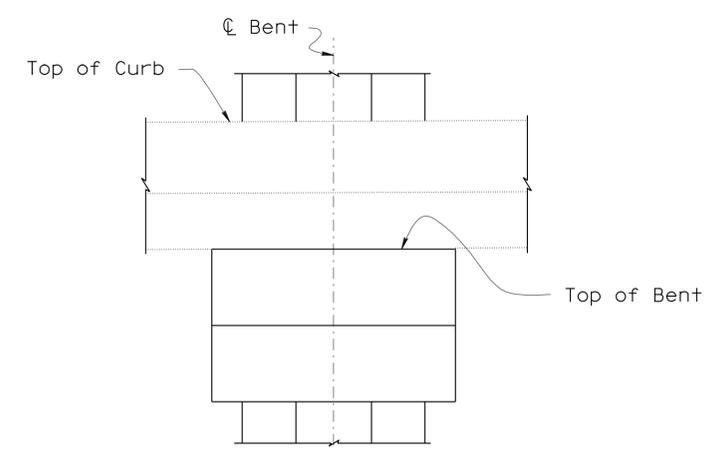
⊗ Indicates bundled bars



PLAN
3/4" = 1'-0"



VIEW B-B
3/4" = 1'-0"



VIEW F-F
3/4" = 1'-0"

**BENT 10
CANTILEVERS 10E & 10F**

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

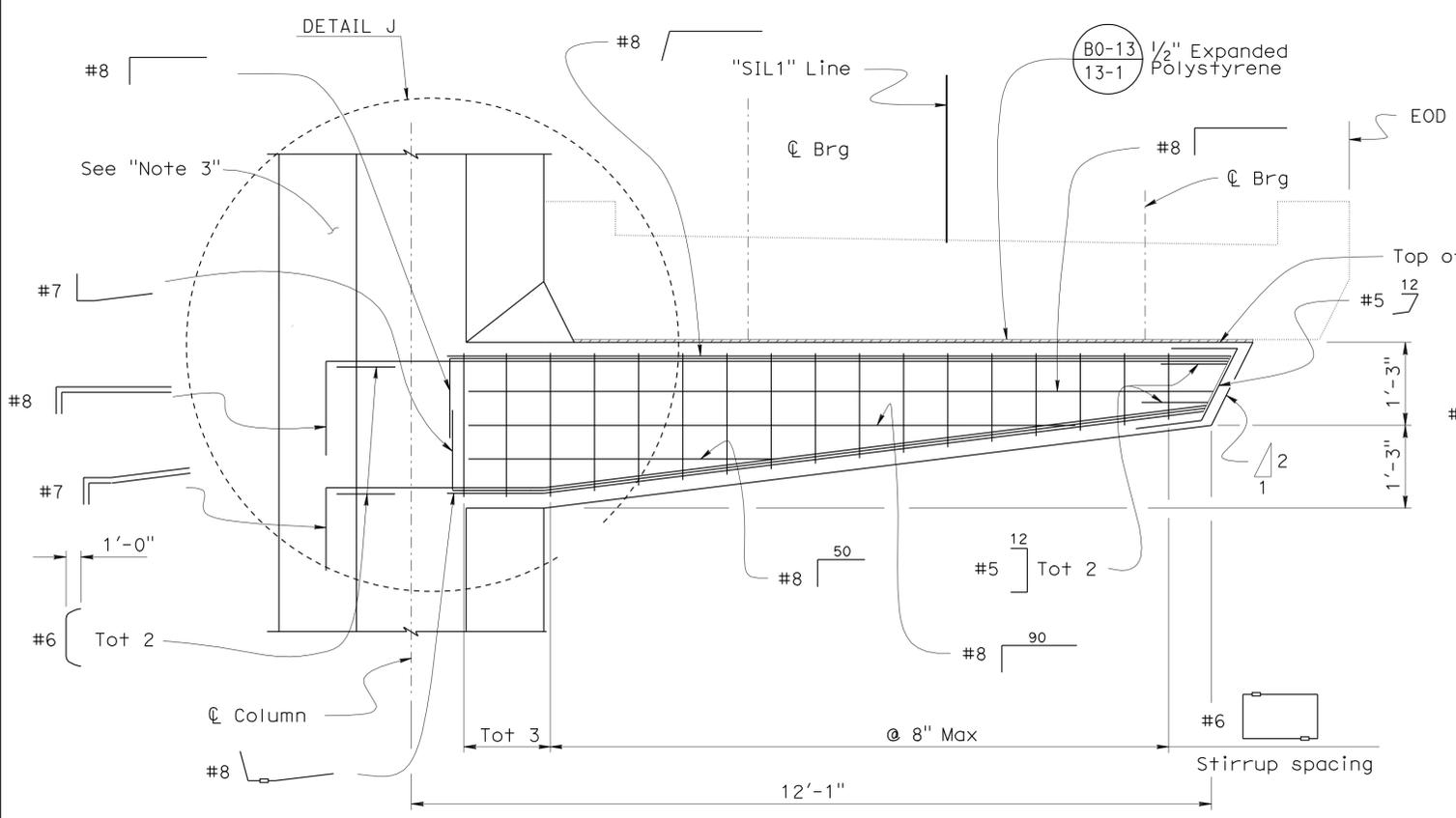
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

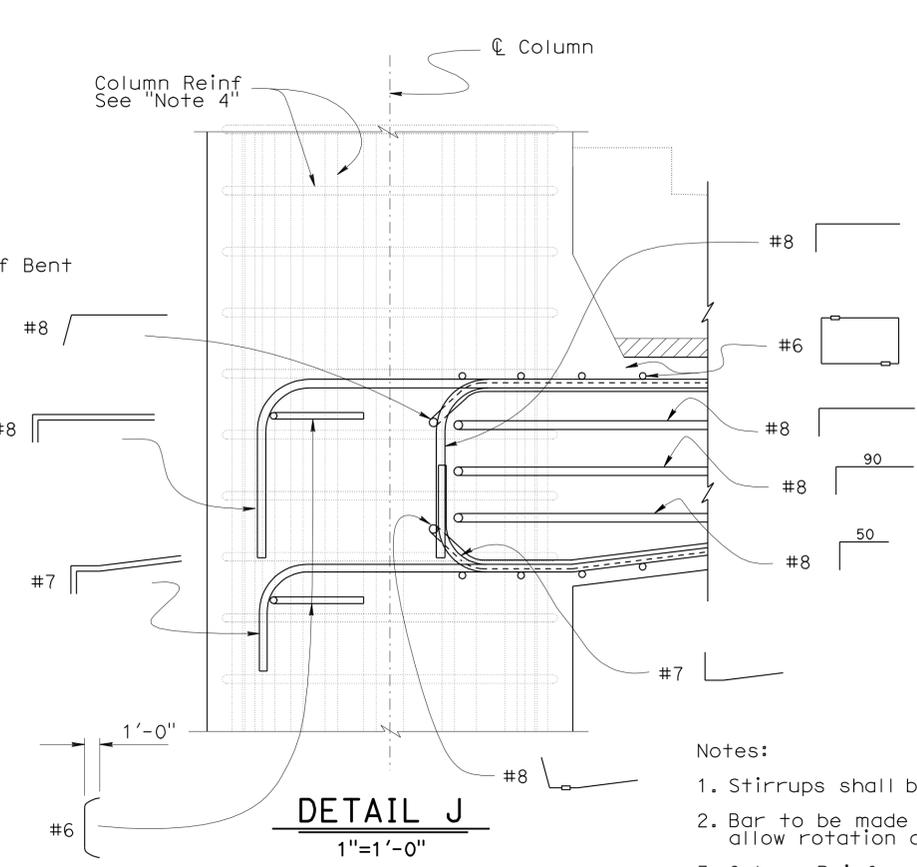
BRIDGE NO.
53-3043
POST MILE
3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	968	1288
Andrew P. Rittenhouse REGISTERED CIVIL ENGINEER DATE 12-12-11					
3-26-12 PLANS APPROVAL DATE			The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.		

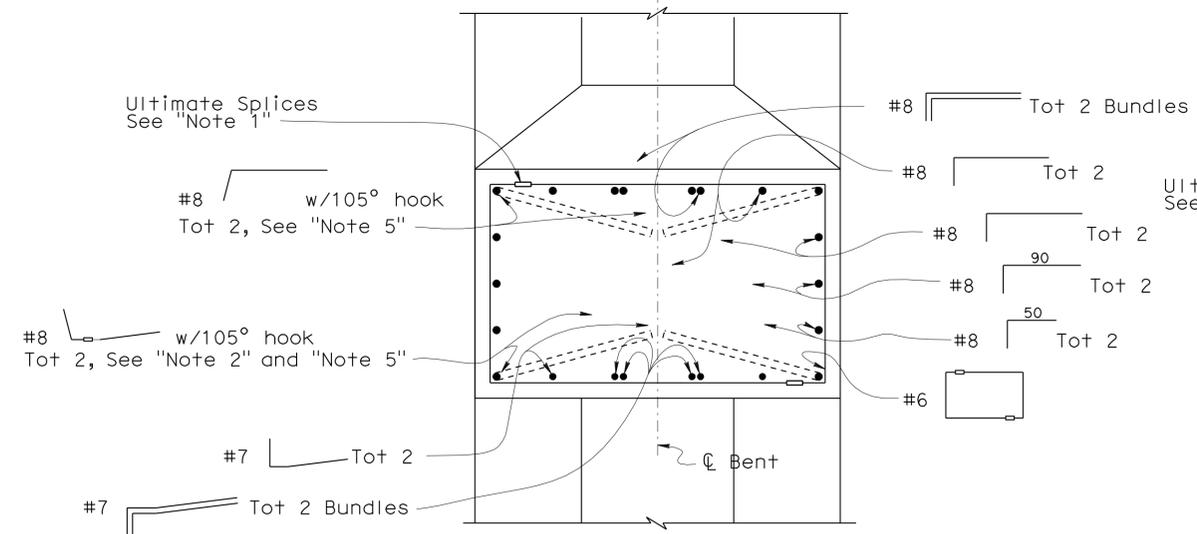


VIEW A-A
3/4"=1'-0"

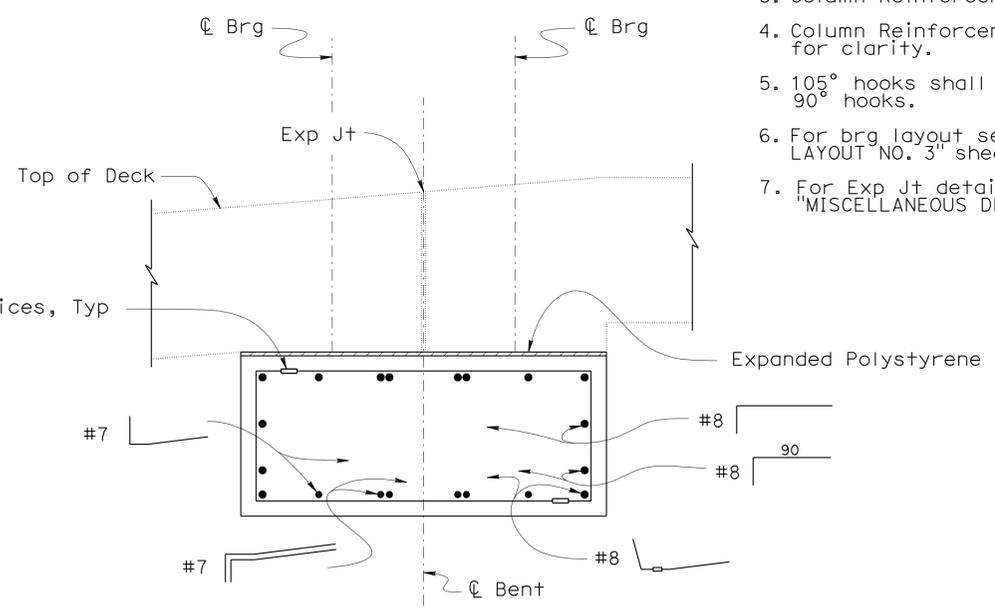


DETAIL J
1"=1'-0"

- Notes:
1. Stirrups shall be made continuous by Ultimate Splice.
 2. Bar to be made continuous by Ultimate Splice to allow rotation of the hook in the vertical plane.
 3. Column Reinforcement not shown for clarity.
 4. Column Reinforcement shown in dim line for clarity.
 5. 105° hooks shall have the same tail length as 90° hooks.
 6. For brg layout see "RAMP-BENT CANTILEVER LAYOUT NO. 3" sheet.
 7. For Exp Jt details see "EXP JT DETAIL (MR = 1/2)" on "MISCELLANEOUS DETAILS" sheet.



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



SECTION C-C
1"=1'-0"

BENT 10
CANTILEVERS 10E & 10F

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

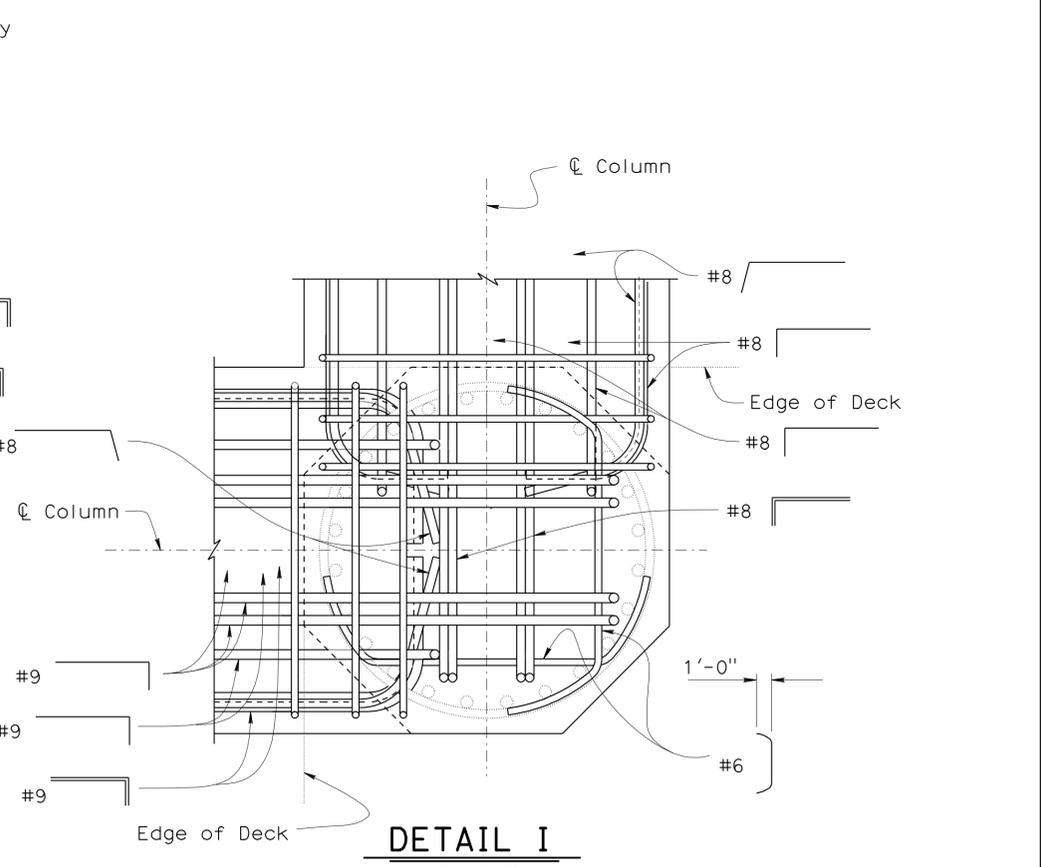
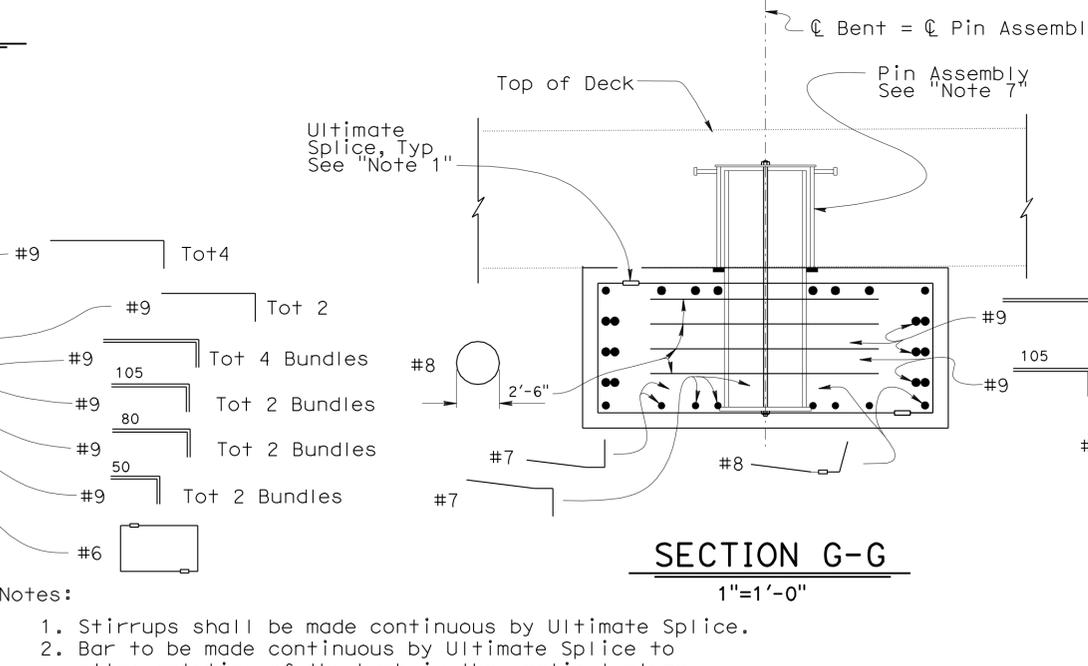
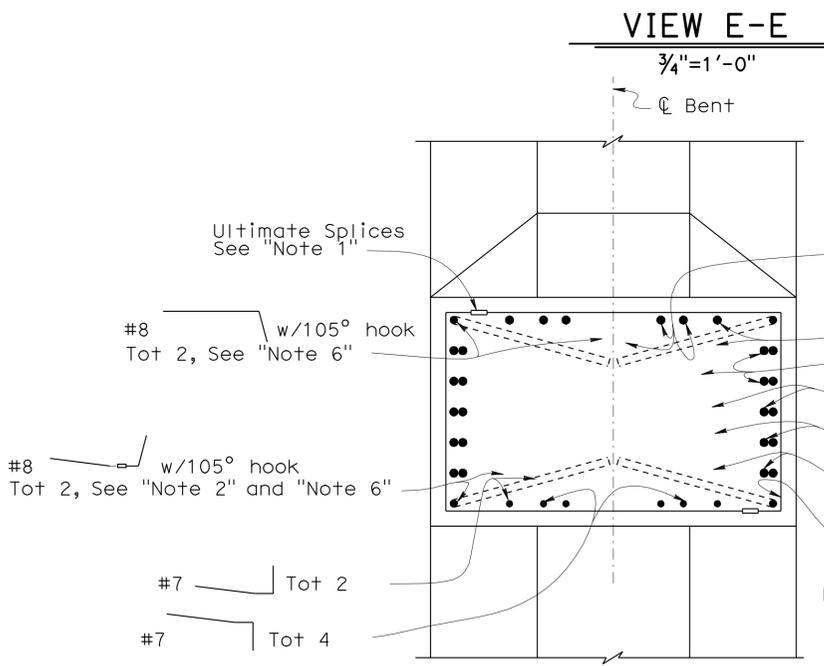
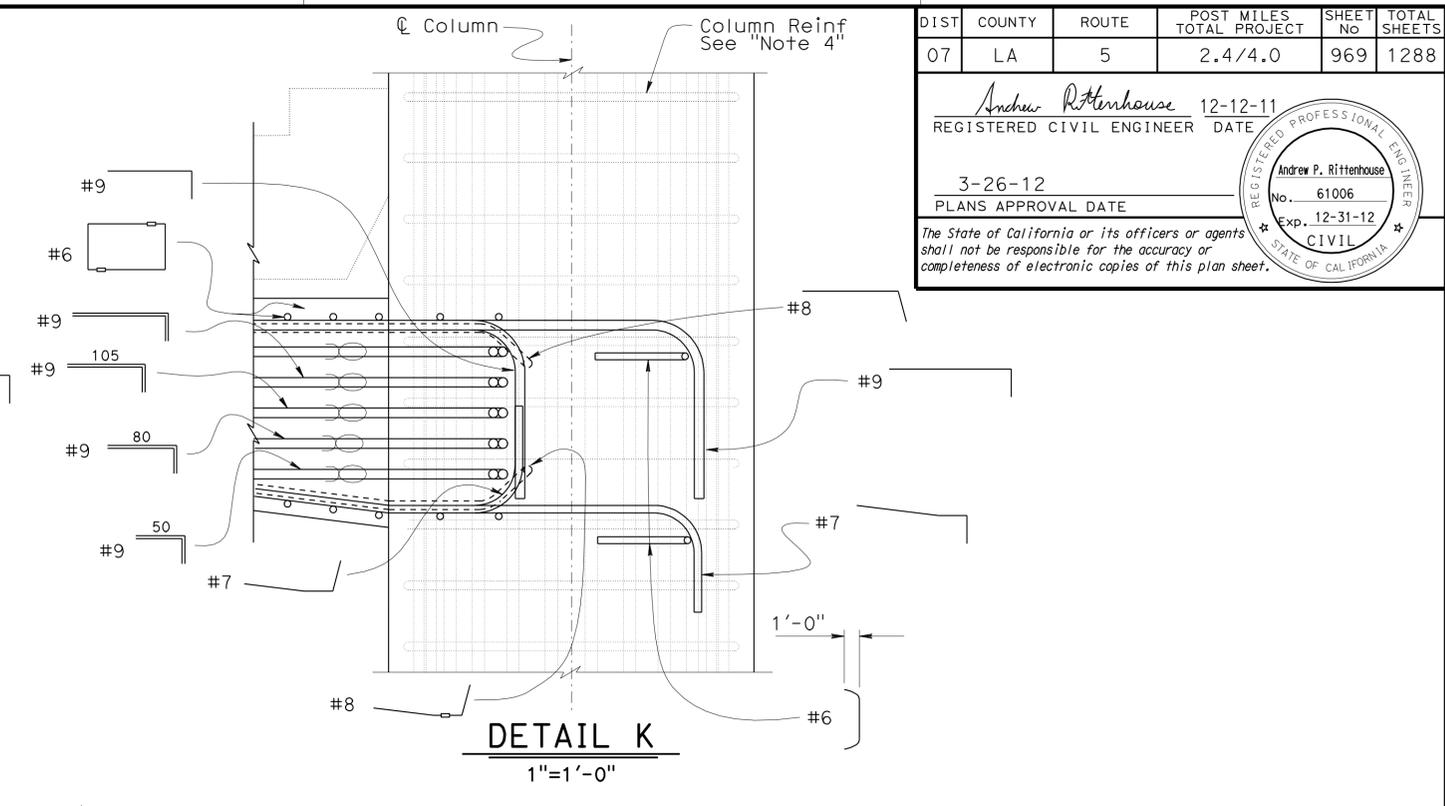
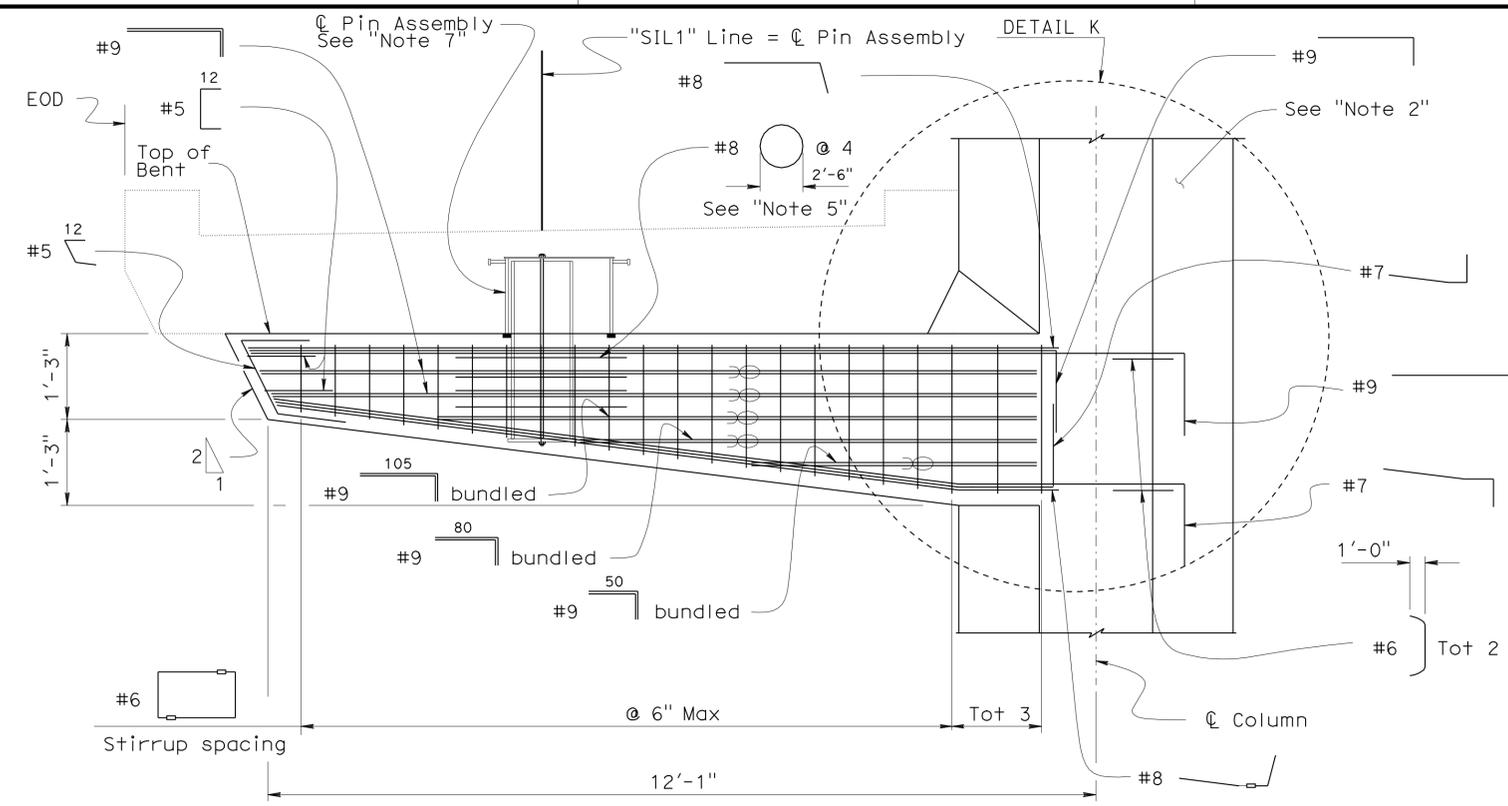
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
POST MILE 3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 10

4-18-11	5-4-11	7-15-11	8-29-11	10-12-11	11-30-11	01-03-12
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	969	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12 PLANS APPROVAL DATE					
<i>Andrew P. Rittenhouse</i> No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA					
<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. Stirrups shall be made continuous by Ultimate Splice.
 2. Bar to be made continuous by Ultimate Splice to allow rotation of the hook in the vertical plane.
 3. Column Reinforcement not shown for clarity.
 4. Column Reinforcement shown in dimension line for clarity.
 5. Hoops shall be made continuous by Ultimate Splice.
 6. 105° hooks shall have the same tail length as 90° hooks.
 7. For Pin Assembly details, see "PIN ASSEMBLY DETAILS" sheet.

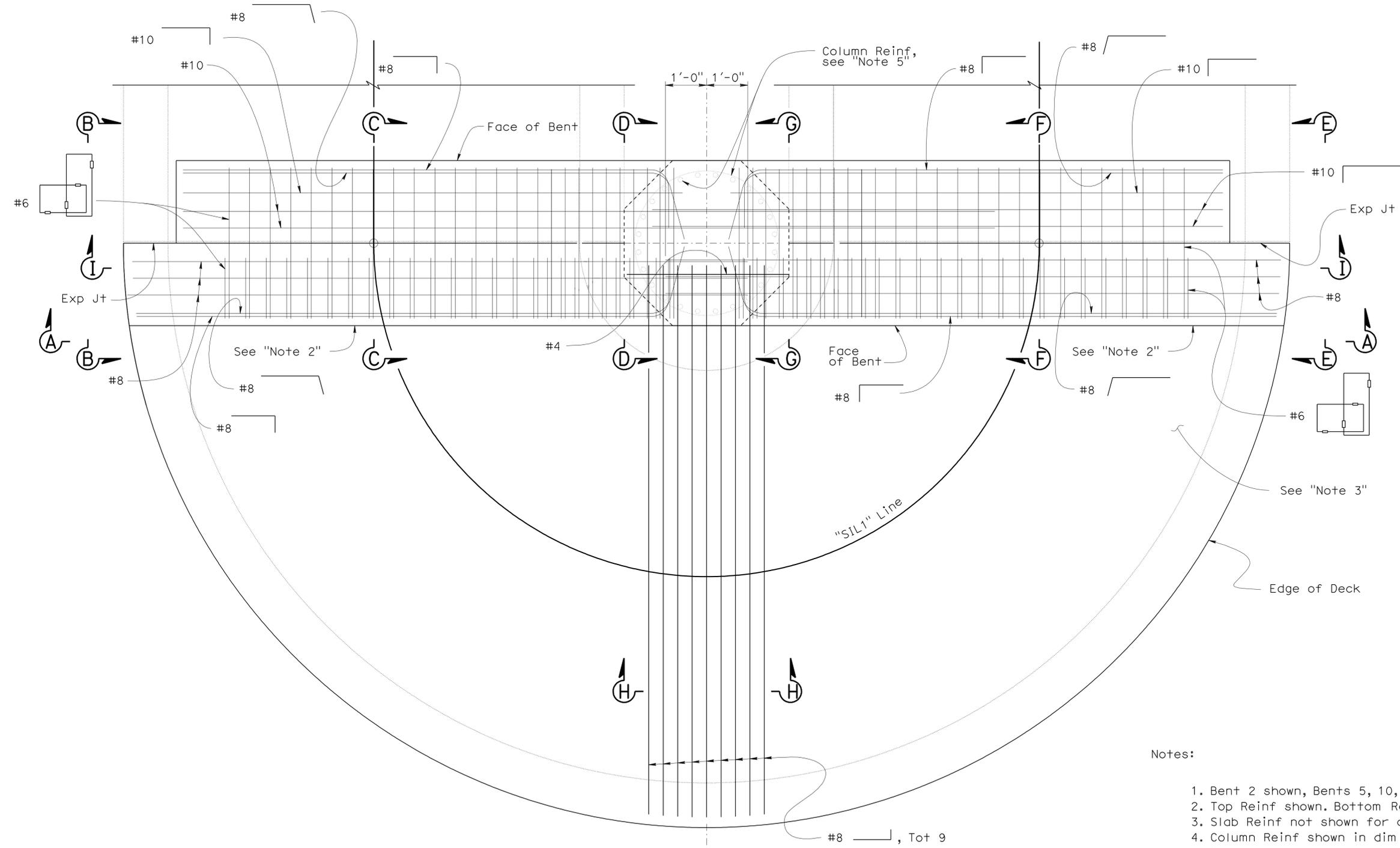
Legend: Indicates bundled bars

BENT 10 CANTILEVERS 10E & 10F

DESIGN BY H. Setberg	CHECKED Laith Bahja	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE NO. 53-3043	SILVERBOW AVENUE PEDESTRIAN OC
DETAILS BY S. Cholda	CHECKED Laith Bahja	DEPARTMENT OF TRANSPORTATION	DESIGN BRANCH 15	POST MILE 3.97	RAMP-BENT CANTILEVER DETAILS NO. 11
QUANTITIES BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 07 EA 215931	REVISION DATES	SHEET 67 OF 101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	970	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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Notes:

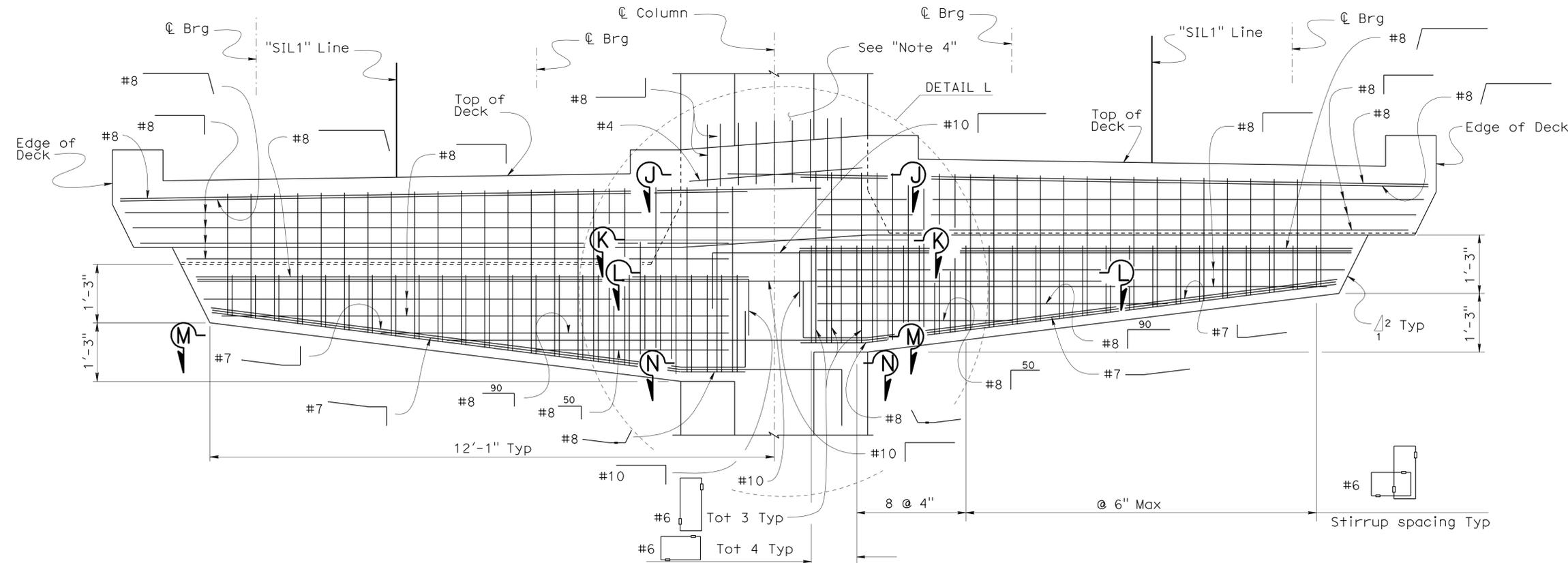
1. Bent 2 shown, Bents 5, 10, and 13 similar.
2. Top Reinf shown. Bottom Reinf similar.
3. Slab Reinf not shown for clarity.
4. Column Reinf shown in dim line for clarity.
5. Column.
6. For "VIEW A-A", "VIEW B-B", "VIEW E-E" and "VIEW I-I" see "RAMP-BENT CANTILEVER DETAILS NO. 13" sheet.
7. For "SECTION C-C", "SECTION D-D", "SECTION F-F", and "SECTION G-G" see "RAMP-CANTILEVER DETAILS NO. 14" sheet.
8. For "SECTION H-H" see "RAMP-BENT CANTILEVER DETAILS NO. 15" sheet.
9. For Exp Jt details see "EXP JT DETAIL (MR = 1/2)" on "MISCELLANEOUS DETAILS" sheet.

PLAN
 $\frac{3}{4}'' = 1'-0''$
BENTS 2, 5, 10, & 13
CANTILEVERS 2A & 2B, 2C & 2D, 5A & 5B, 10A & 10B,
10C & 10D, 13A & 13B, AND 13C & 13D

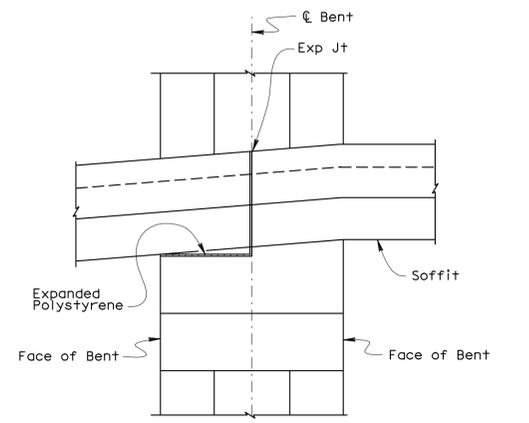
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 12
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik					
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-18-11 5-18-11 7-15-11 8-28-11 10-12-11 11-30-11 01-03-12	SHEET 68 OF 101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	971	1288

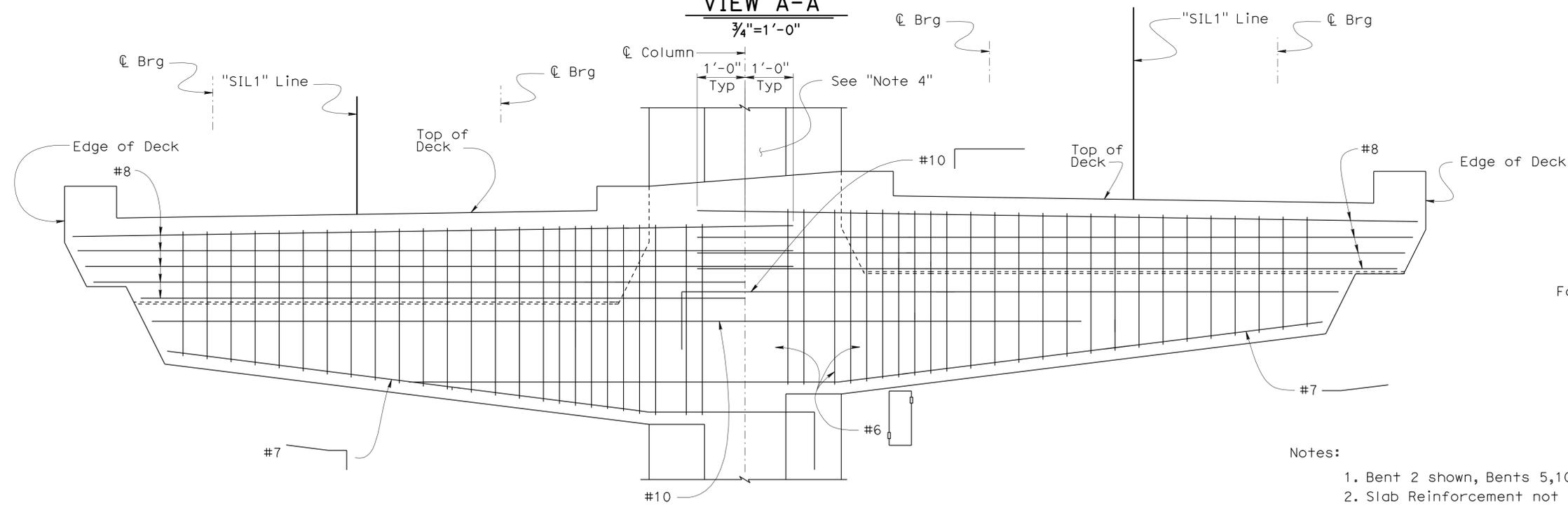
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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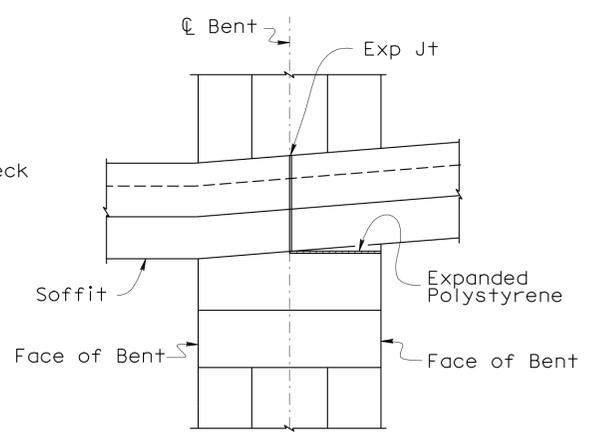
VIEW A-A
3/4" = 1'-0"



VIEW B-B
3/4" = 1'-0"



VIEW I-I
3/4" = 1'-0"



VIEW E-E
3/4" = 1'-0"

- Notes:
- Bent 2 shown, Bents 5, 10 and 13 similar.
 - Slab Reinforcement not shown for clarity.
 - Column Reinforcement not shown for clarity.
 - For Exp Jt details see "EXP JT DETAIL (MR = 1/2") on "MISCELLANEOUS DETAILS" sheet.
 - For "SECTION J-J", and "DETAIL L" see "RAMP-BENT CANTILEVER DETAILS NO. 15" sheet.
 - For "SECTION K-K", "SECTION L-L", "SECTION M-M" and "SECTION N-N" see "RAMP-BENT CANTILEVER DETAILS NO. 16" sheet.

BENTS 2, 5, 10, & 13
CANTILEVERS 2A & 2B, 2C & 2D, 5A & 5B, 10A & 10B,
10C & 10D, 13A & 13B, AND 13C & 13D

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

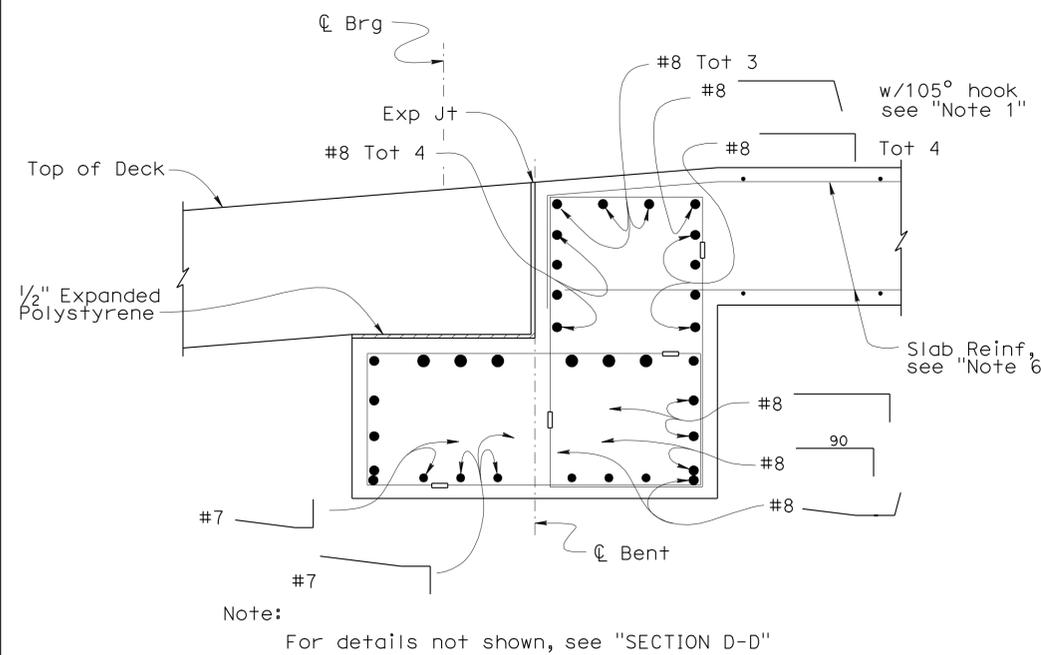
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

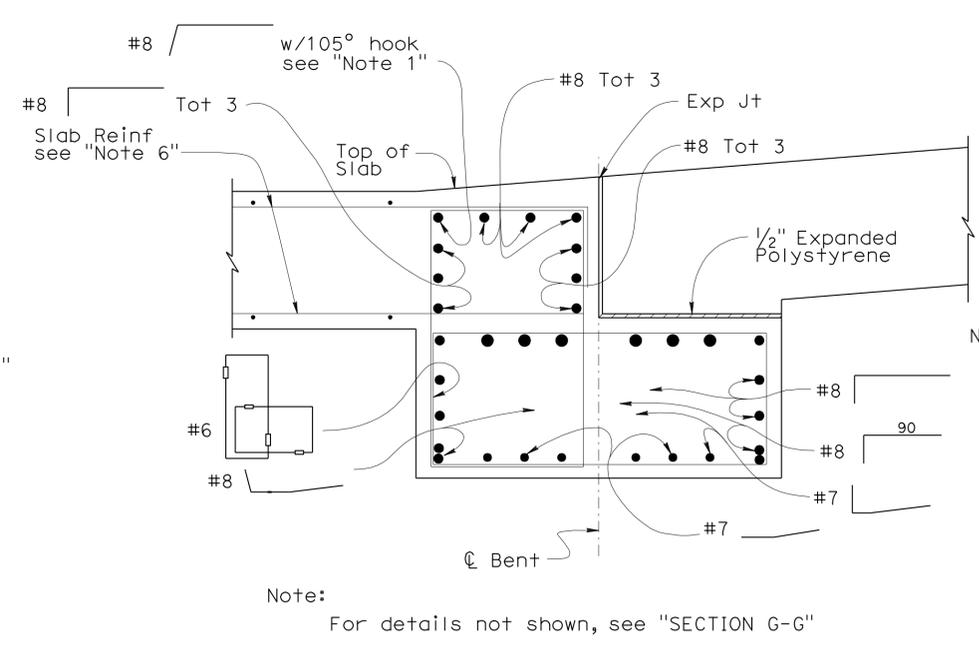
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-BENT CANTILEVER DETAILS NO. 13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	972	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			PLANS APPROVAL DATE		
<i>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.</i>					

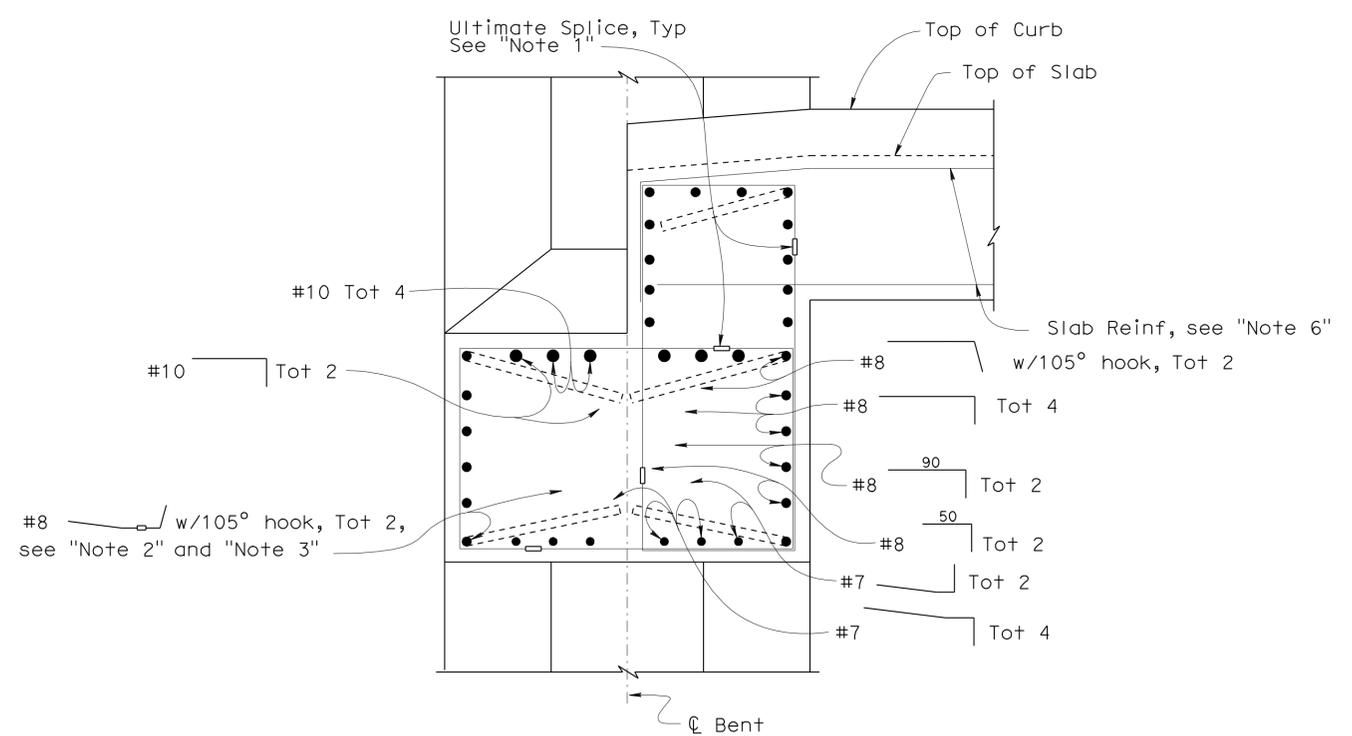


SECTION C-C
1"=1'-0"

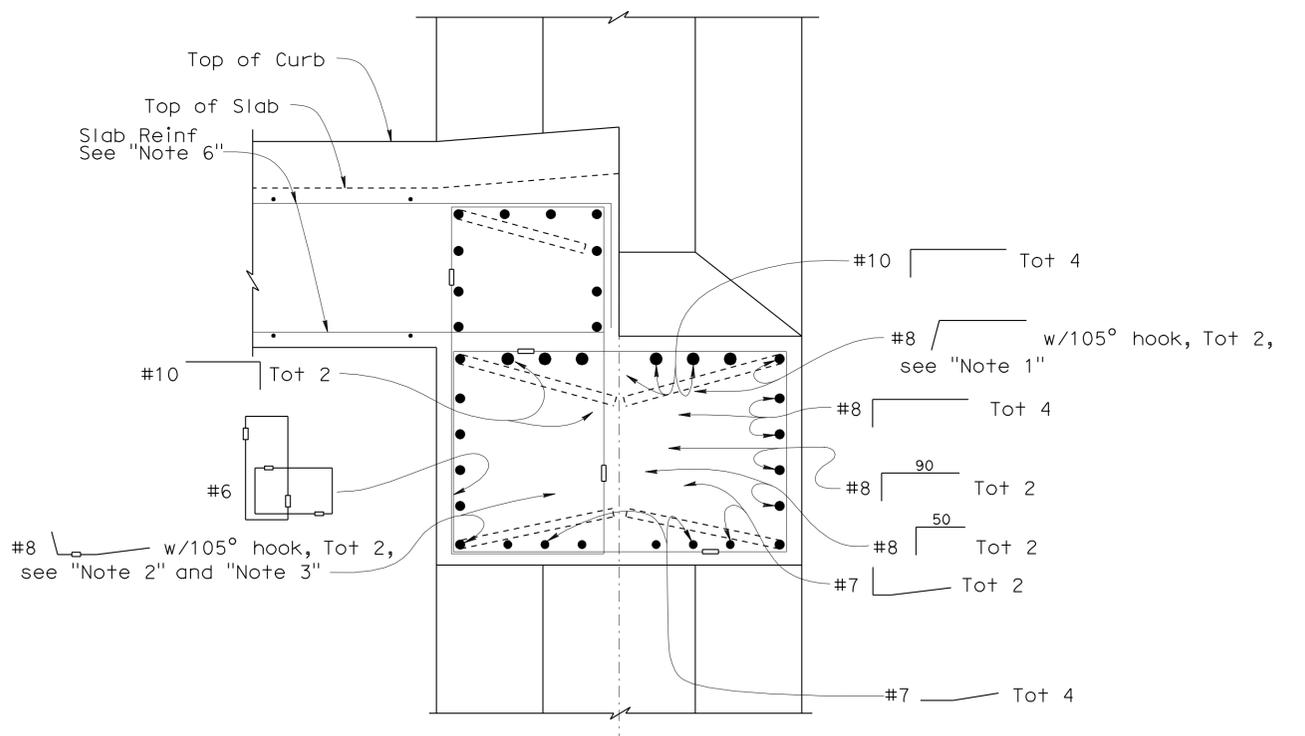


SECTION F-F
1"=1'-0"

- Note:
1. Stirrups shall be made continuous by Ultimate Splice.
 2. Bar to be made continuous by Ultimate Splice to allow rotation at the hook in the vertical plane.
 3. 105° hooks shall have the same tail length as 90° hooks.
 4. For Brg layout, see "RAMP-BENT CANTILEVER LAYOUT NO. 3" sheet.
 5. For Exp Jt details see "EXP JT DETAIL (MR = 1/2)" on "MISCELLANEOUS DETAILS" sheet.
 6. Continuous top Slab Reinf shall be hooked into Cantilever as shown.



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



SECTION G-G
1"=1'-0"

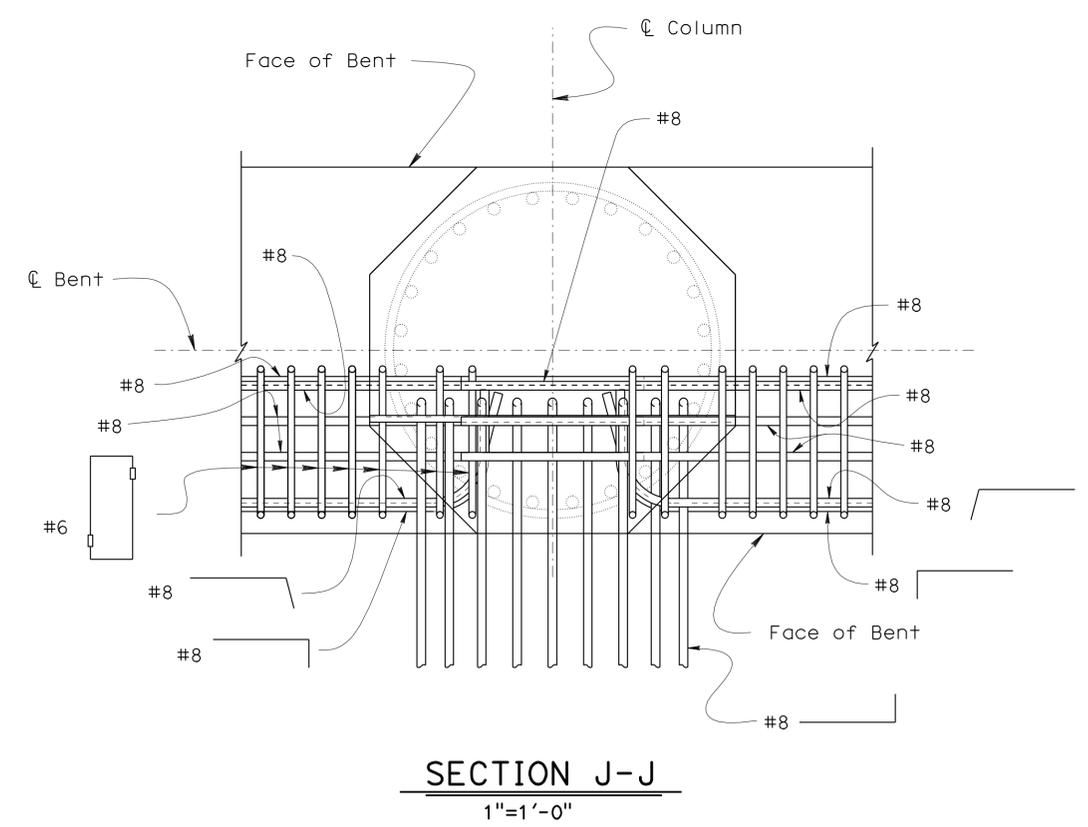
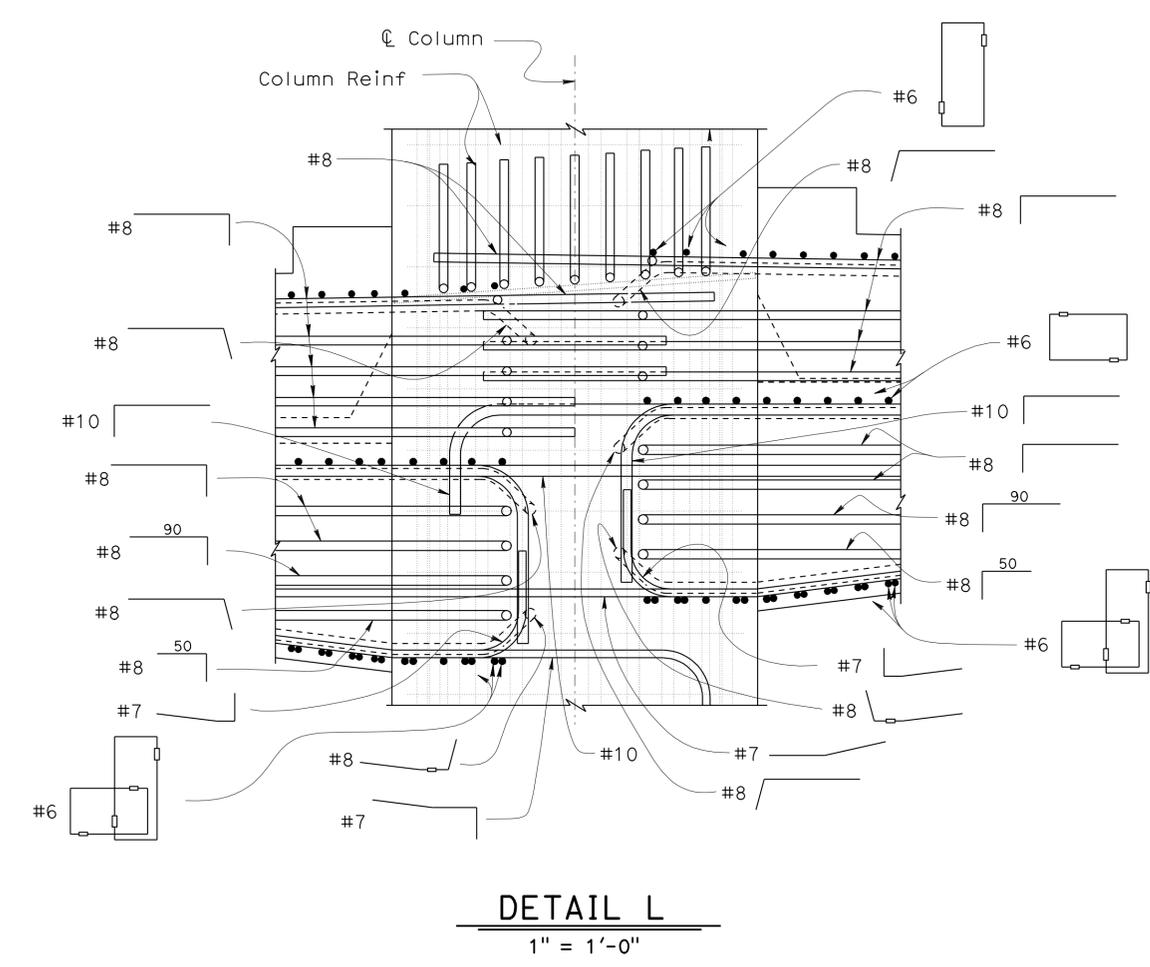
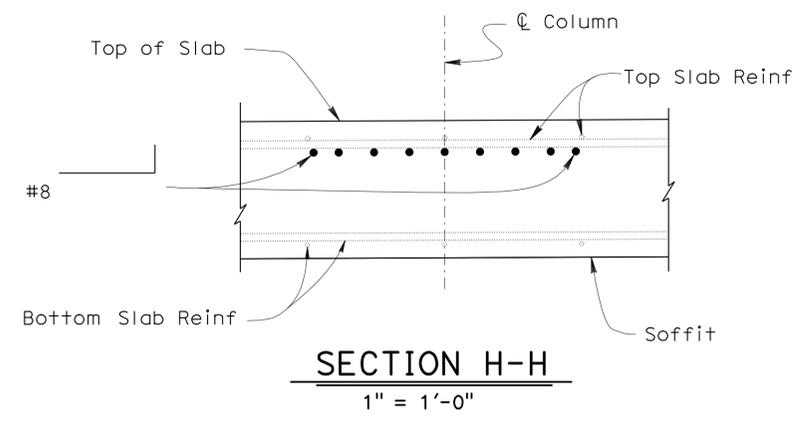
BENTS 2, 5, 10, & 13
CANTILEVERS 2A & 2B, 2C & 2D, 5A & 5B, 10A & 10B, 10C & 10D, 13A & 13B, AND 13C & 13D

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 14
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES		
						REVISION DATES: 4-16-11, 5-26-11, 7-15-11, 8-28-11, 10-12-11, 11-10-11		
						SHEET 70 OF 101		

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:48

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	973	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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BENTS 2, 5, 10, & 13
CANTILEVERS 2A & 2B, 2C & 2D, 5A & 5B, 10A & 10B,
10C & 10D, 13A & 13B, AND 13C & 13D

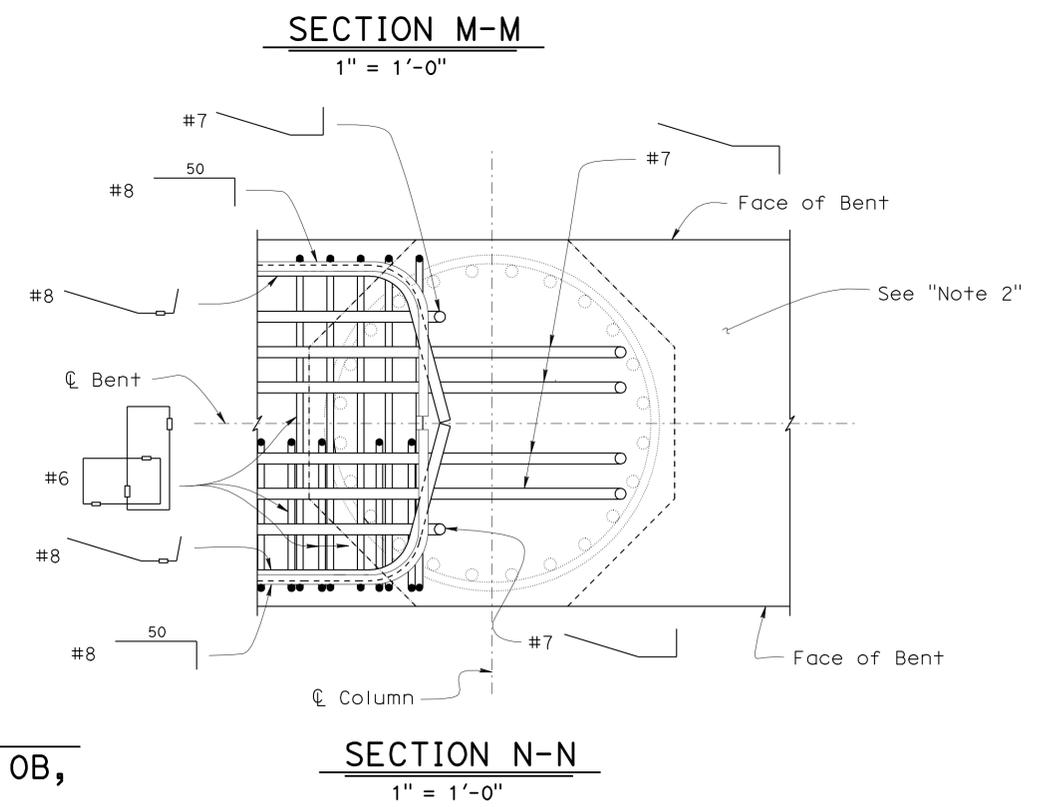
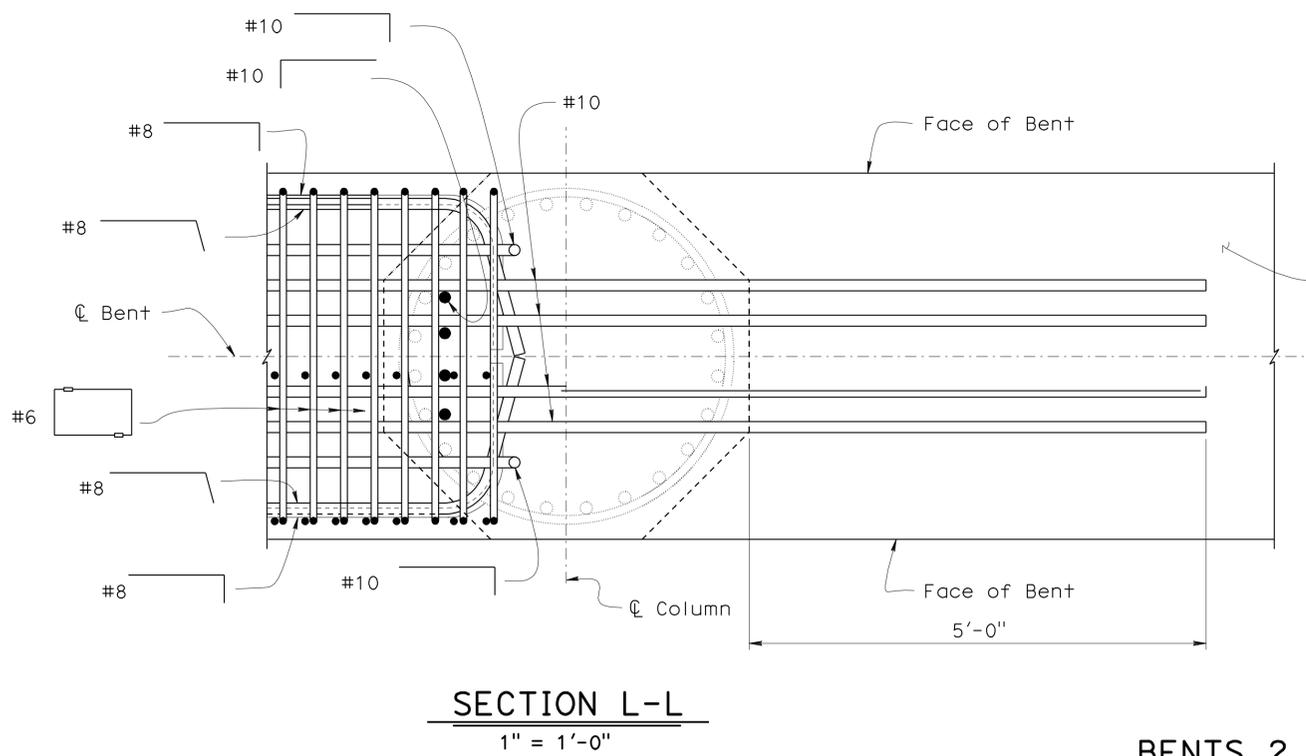
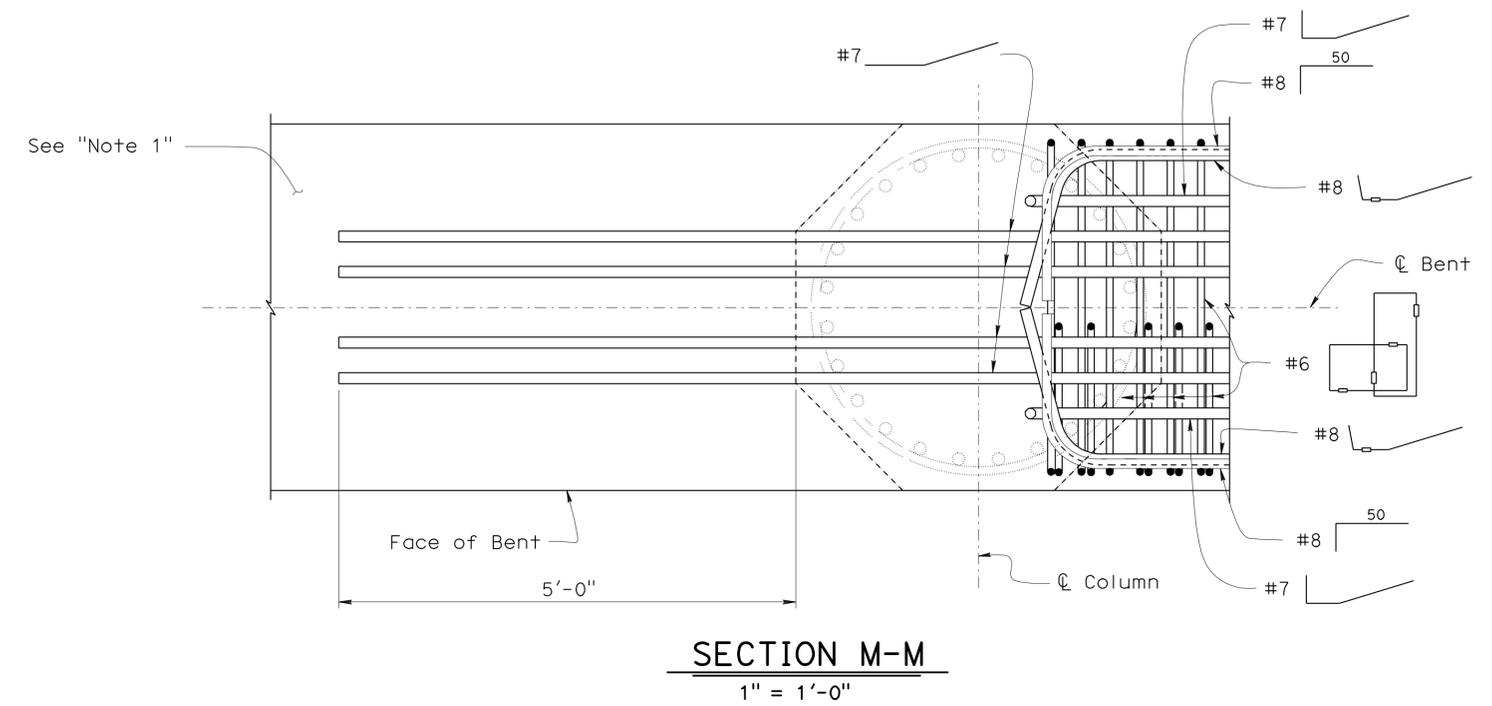
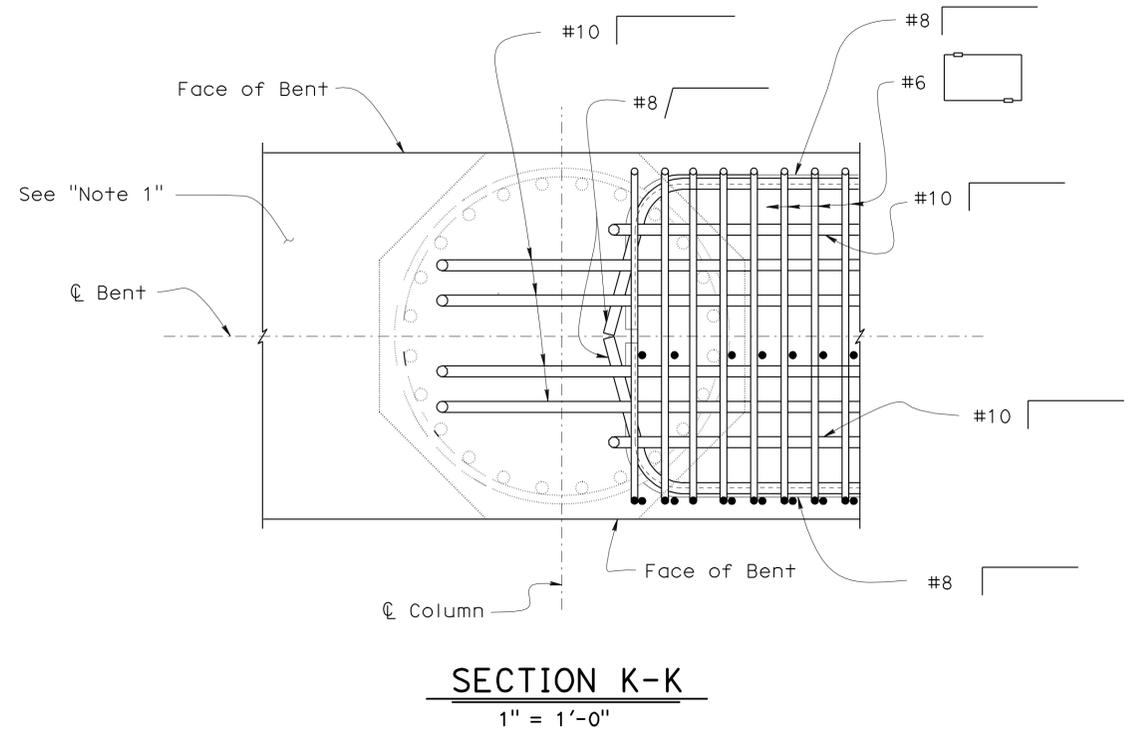
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 15	
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97		
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 4-18-11, 5-26-11, 8-25-11, 9-29-11, 10-12-11, 11-10-11		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 53-3043r-1-bdt1_15.dgn	SHEET	71	OF	101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	974	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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- Notes:
1. Cantilever Reinf on left not shown for clarity.
 2. Cantilever Reinf on right not shown for clarity.

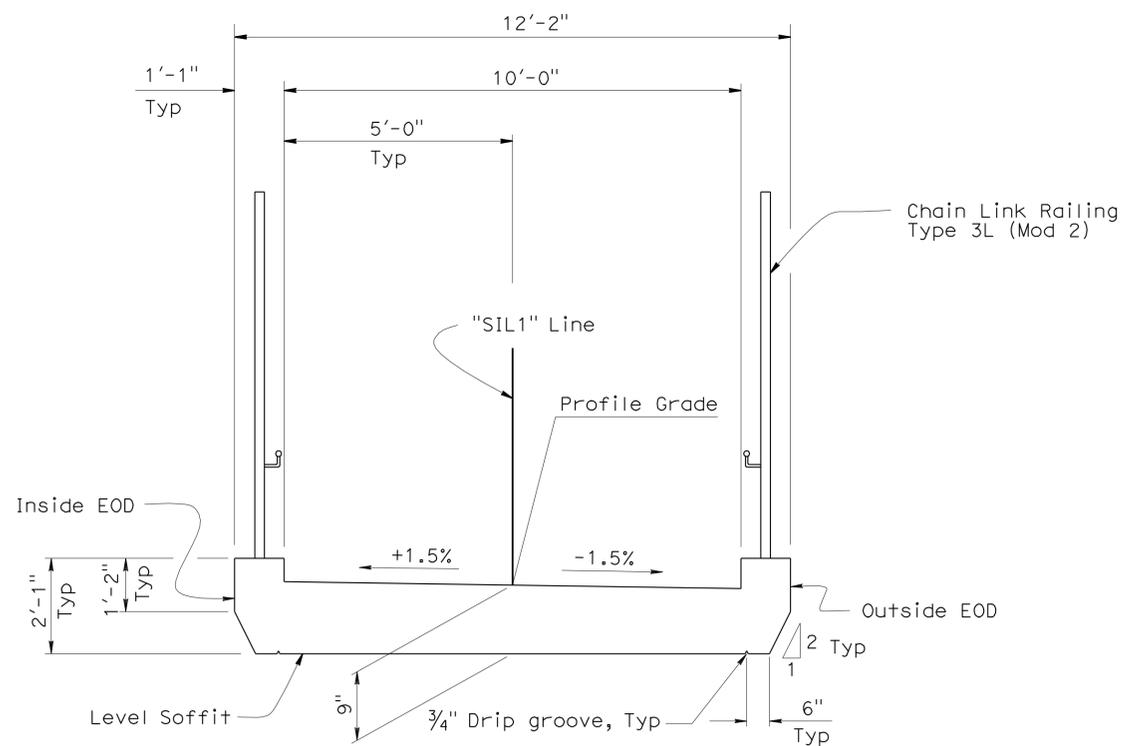


BENTS 2, 5, 10, & 13
CANTILEVERS 2A & 2B, 2C & 2D, 5A & 5B, 10A & 10B,
10C & 10D, 13A & 13B, AND 13C & 13D

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-BENT CANTILEVER DETAILS NO. 16
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik					
			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-18-11 5-23-11 8-01-11 10-12-11 11-10-11	SHEET 72 OF 101

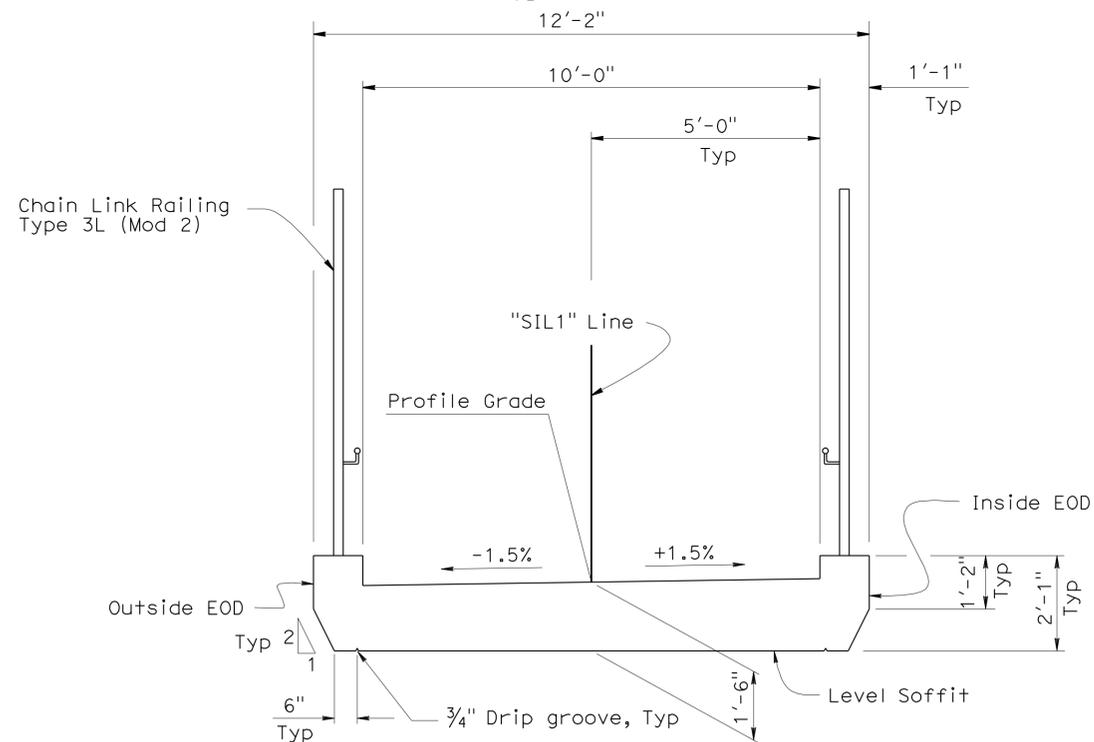
USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	975	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
<i>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.</i>					



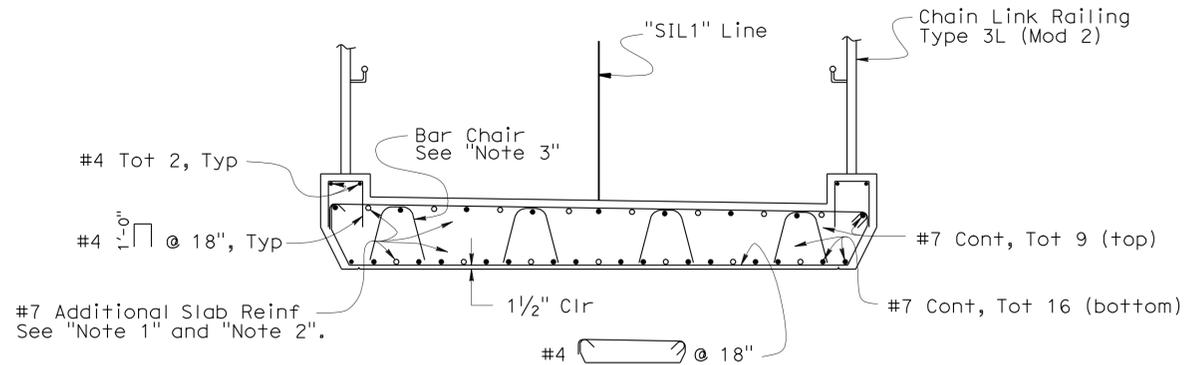
TYPICAL SECTION - SOUTH RAMP

1/2" = 1'-0"



TYPICAL SECTION - NORTH RAMP

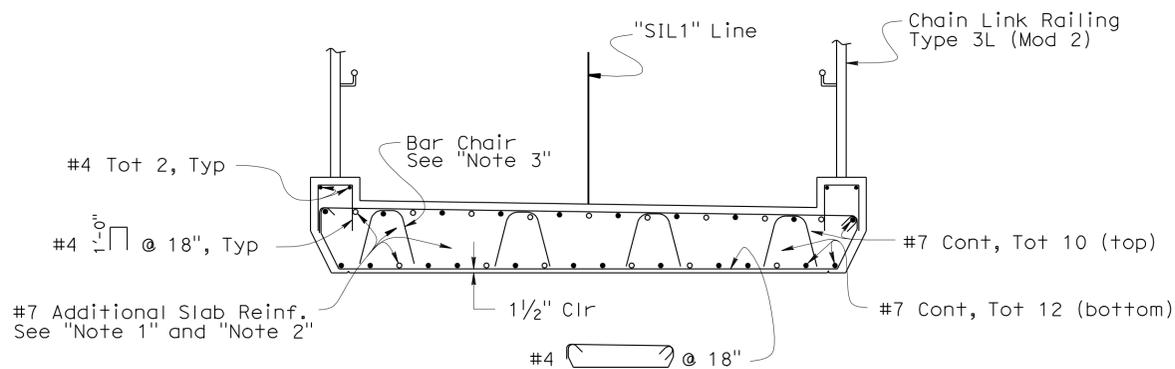
1/2" = 1'-0"



PART TYPICAL SECTION I

1/2" = 1'-0"

**FROM ABUT 1 TO CANTILEVER 4 (SINGLE SPAN SLAB),
FROM CANTILEVER 5C TO BENT 7 (2 SPAN CONTINUOUS SLAB),
AND FROM CANTILEVER 12A TO ABUT 14 (SINGLE SPAN SLAB)**



PART TYPICAL SECTION II

1/2" = 1'-0"

**FROM CANTILEVER 4A TO 2A
AND FROM CANTILEVER 10A TO 12A
(2 SPAN CONTINUOUS SLAB)**

Notes:

- "South Ramp" shown, "North Ramp" similar.
- For additional Slab Reinf., see "SOUTH RAMP-SLAB DETAILS" sheets and "NORTH RAMP-SLAB DETAILS" sheets.
- For Bar Chair detail, see "BAR CHAIR DETAIL" on "RAMP-TYPICAL SECTION NO. 2" sheet.

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

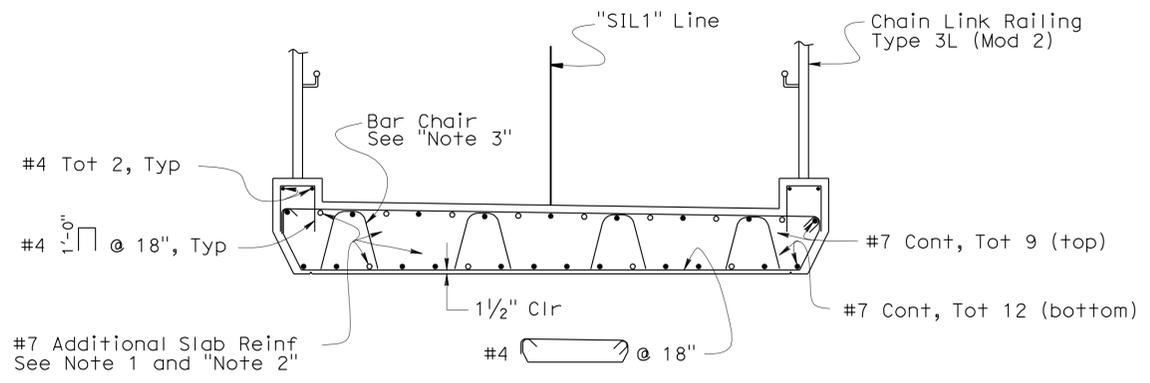
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
POST MILE 3.97

SILVERBOW AVENUE PEDESTRIAN OC
RAMP-TYPICAL SECTION NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	976	1288

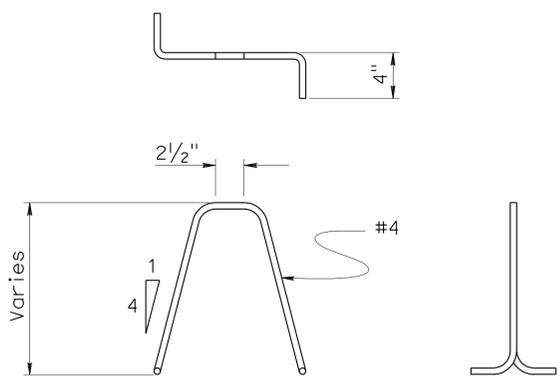
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PART TYPICAL SECTION III
1/2" = 1'-0"

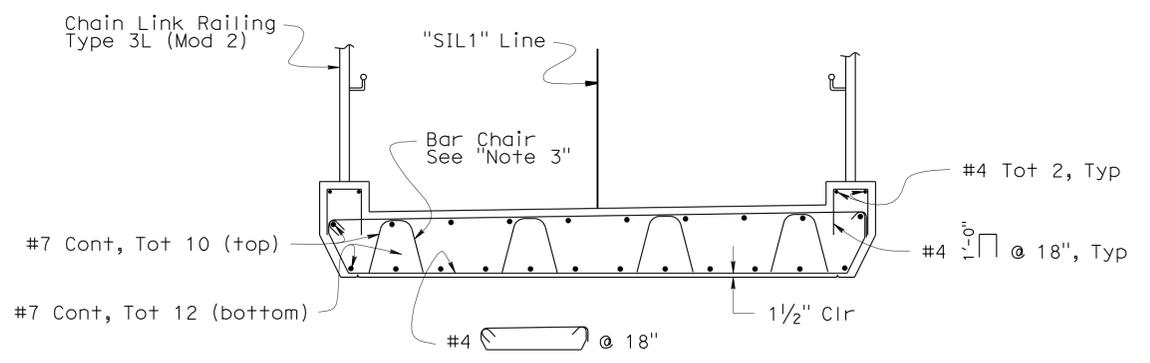
- Notes:
- "South Ramp" shown, "North Ramp" similar.
 - For additional Slab Reinf, see "SOUTH RAMP-SLAB DETAILS" sheets and "NORTH RAMP-SLAB DETAILS" sheets.

FROM CANTILEVER 2B TO 5A, 5B TO 2C, 2D TO 5C, 10E TO 13D, 13D TO 10D, 10C TO 13B, AND 13A TO 10B (3 SPAN CONTINUOUS SLAB)



Note:
Bar Chair Spacing:
3± transversely and 4 1/2" longitudinally.

BAR CHAIR DETAIL
1/2" = 1'-0"



PART TYPICAL SECTION IV
1/2" = 1'-0"

FROM BENT 9 TO CANTILEVER 10F (2 SPAN CONTINUOUS SLAB)

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

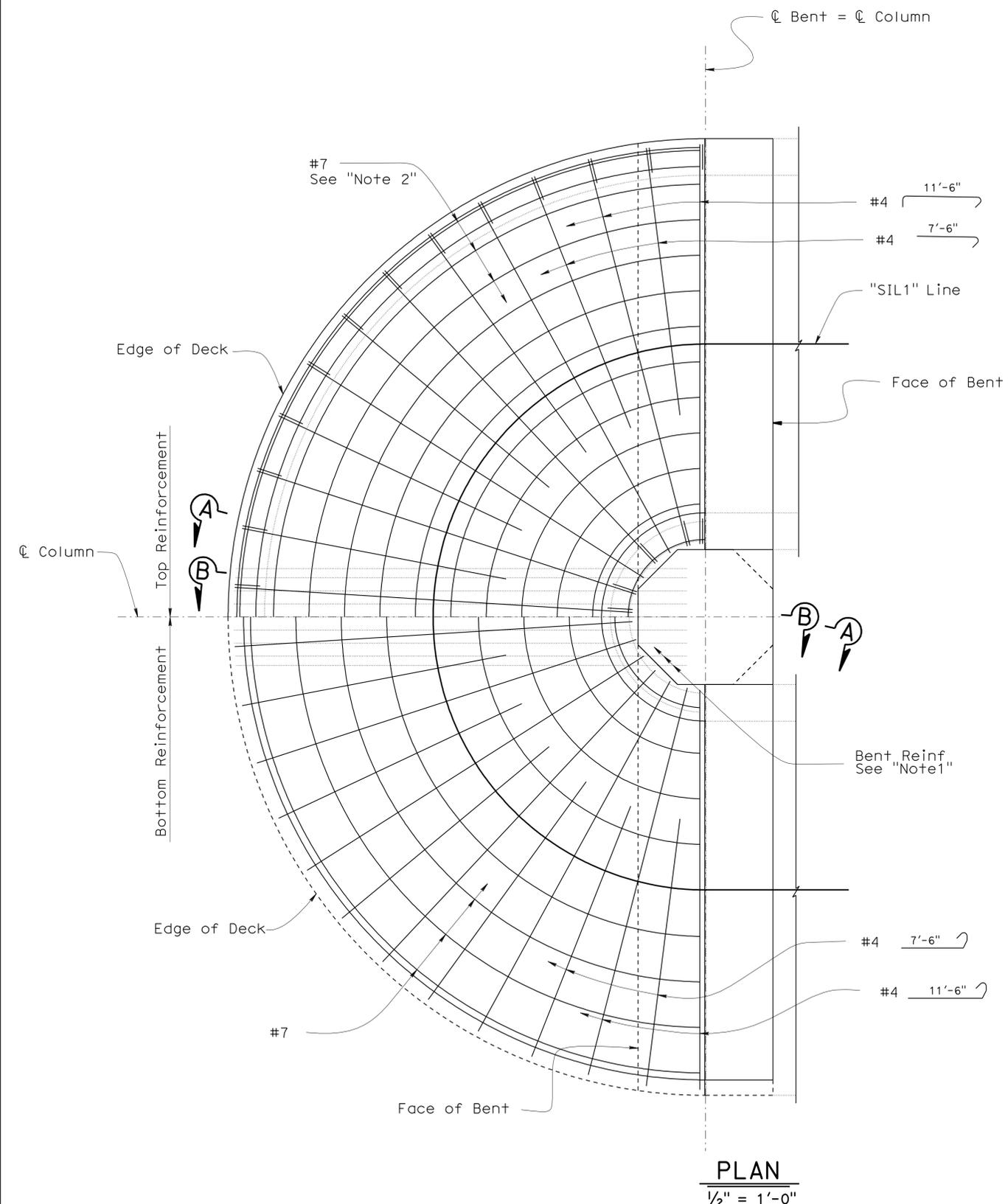
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

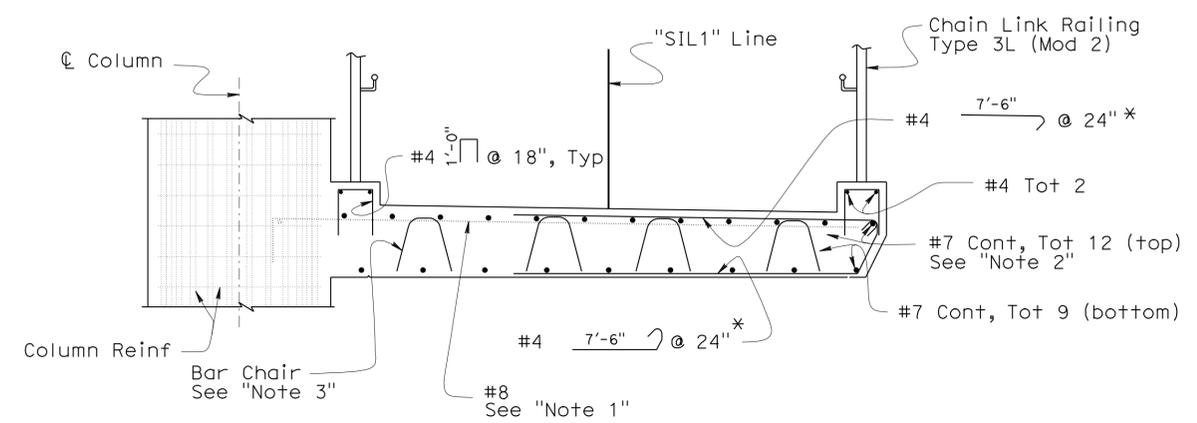
SILVERBOW AVENUE PEDESTRIAN OC
RAMP-TYPICAL SECTION NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	977	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12			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>					

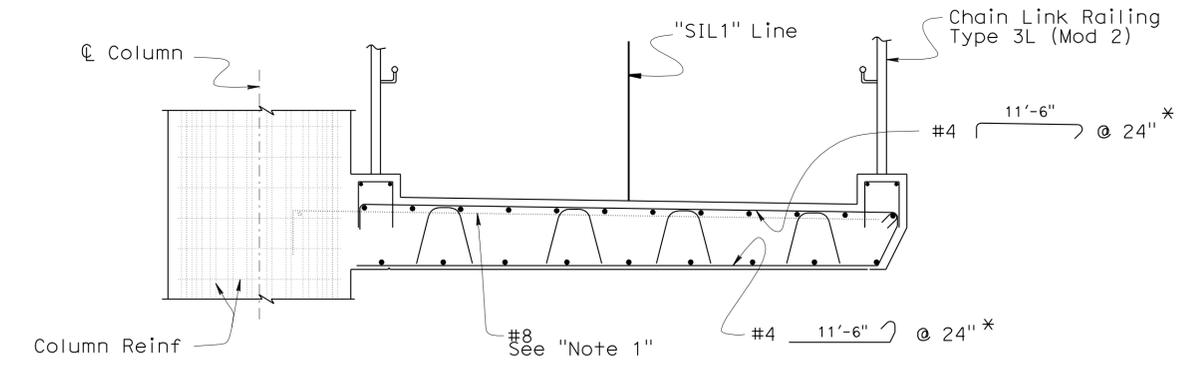
- Notes:
- For additional details, see "RAMP-BENT CANTILEVER DETAILS NO. 12", "RAMP-BENT CANTILEVER DETAILS NO. 13", "RAMP-BENT CANTILEVER DETAILS NO. 15" sheets.
 - Top slab Reinf to be hooked into Cantilever, see "RAMP-BENT CANTILEVER DETAILS NO. 14" sheet.
 - For Bar Chair details, see "BAR CHAIR DETAILS" on "RAMP-TYPICAL SECTION NO. 2" sheet.



PLAN
1/2" = 1'-0"



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



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

Note: For details not shown, see "SECTION A-A" * Measured along "SIL1" Line

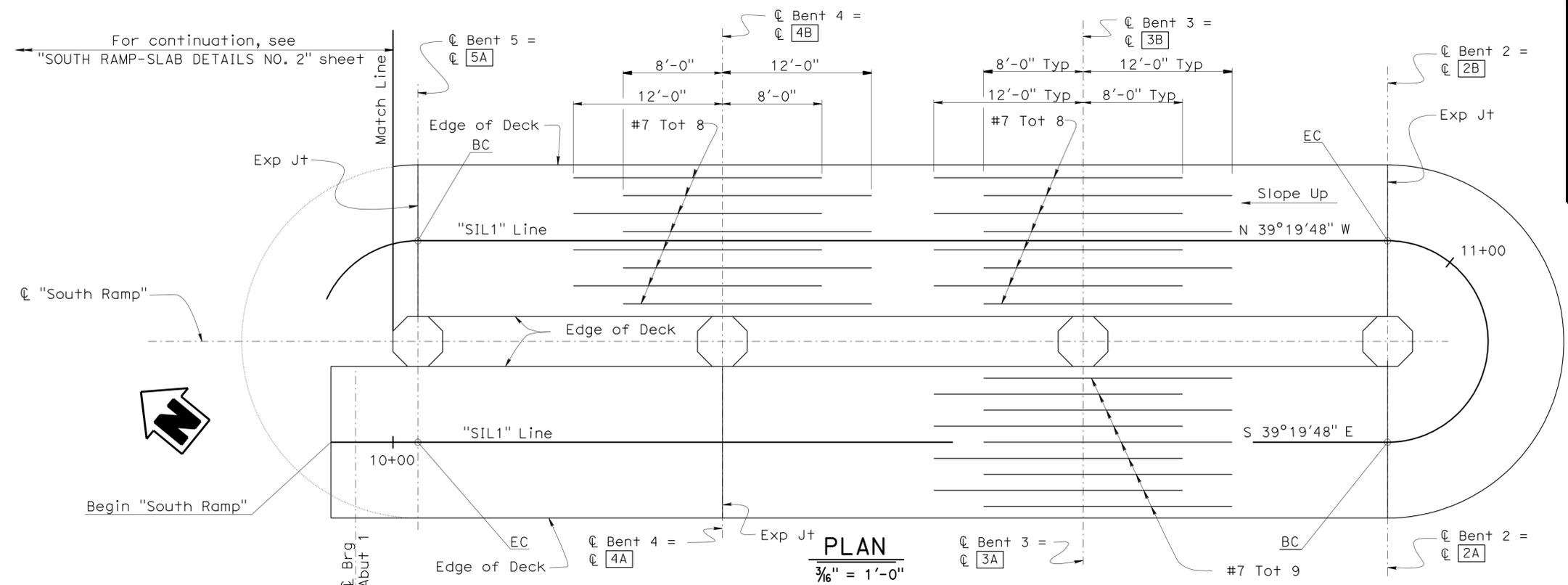
BENTS 2, 5, 10, & 13
CANTILEVERS 2A TO 2B, 2C TO 2D, 5A TO 5B, 10A TO 10B, 10B TO 10D, 13A TO 13B, & 13C TO 13D

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC RAMP-SLAB DETAILS		
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97			
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik							
	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	CU 07	EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 8-22-10 1-11-11 7-28-11 8-28-11 9-29-11 10-12-11 11-10-11	SHEET 75 OF 101

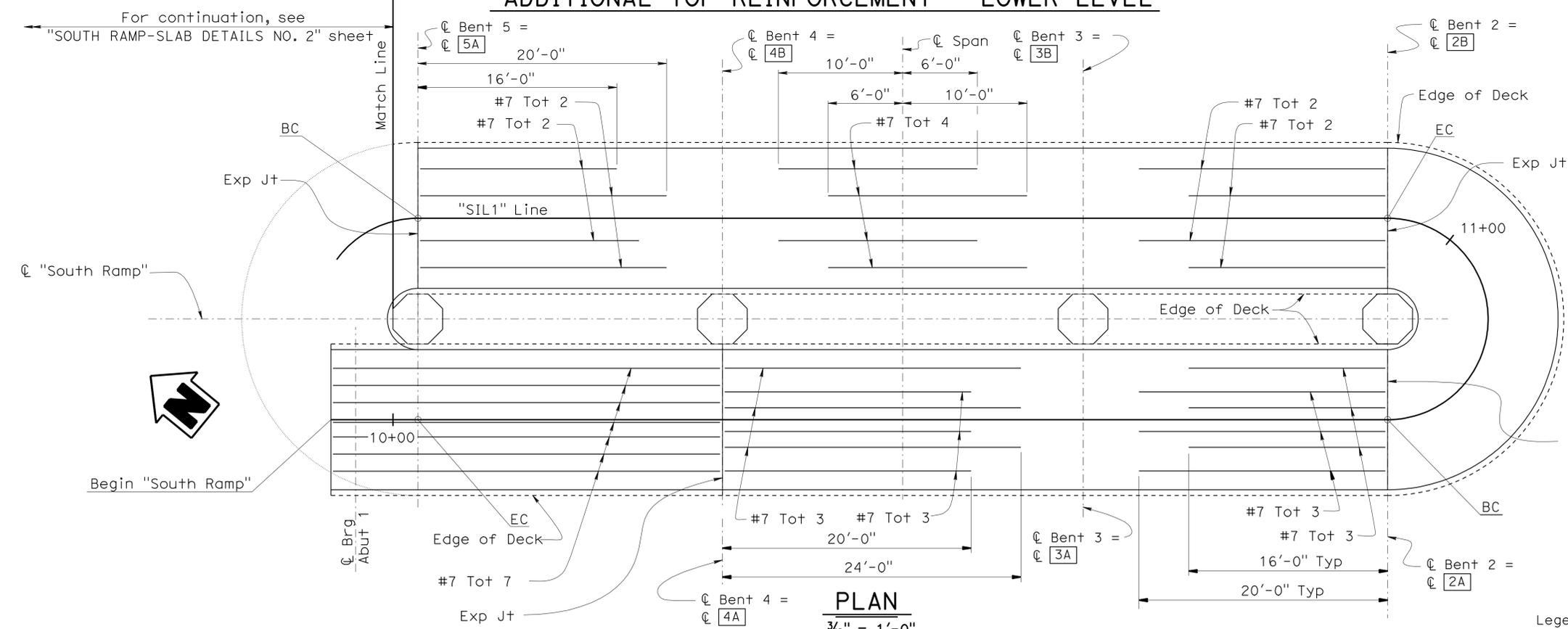
USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	978	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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ADDITIONAL TOP REINFORCEMENT - LOWER LEVEL



ADDITIONAL BOTTOM REINFORCEMENT - LOWER LEVEL

Legend: xx Indicates Cantilever designation

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY S. Cholda	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

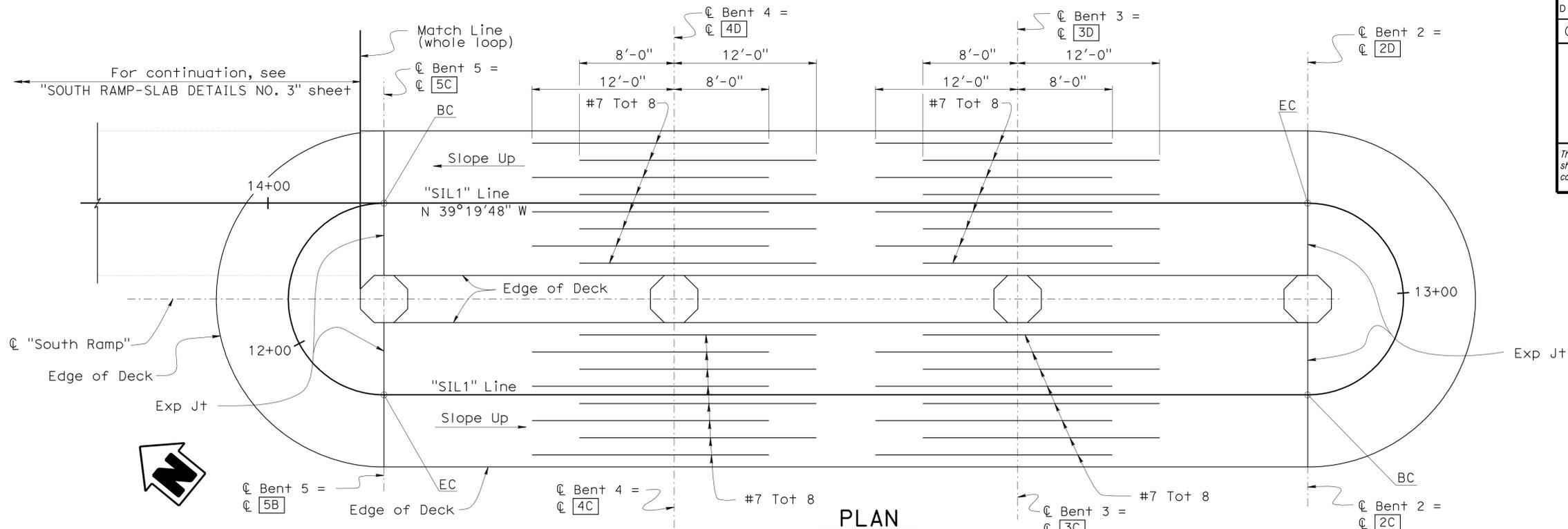
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 SOUTH RAMP-SLAB DETAILS NO. 1

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
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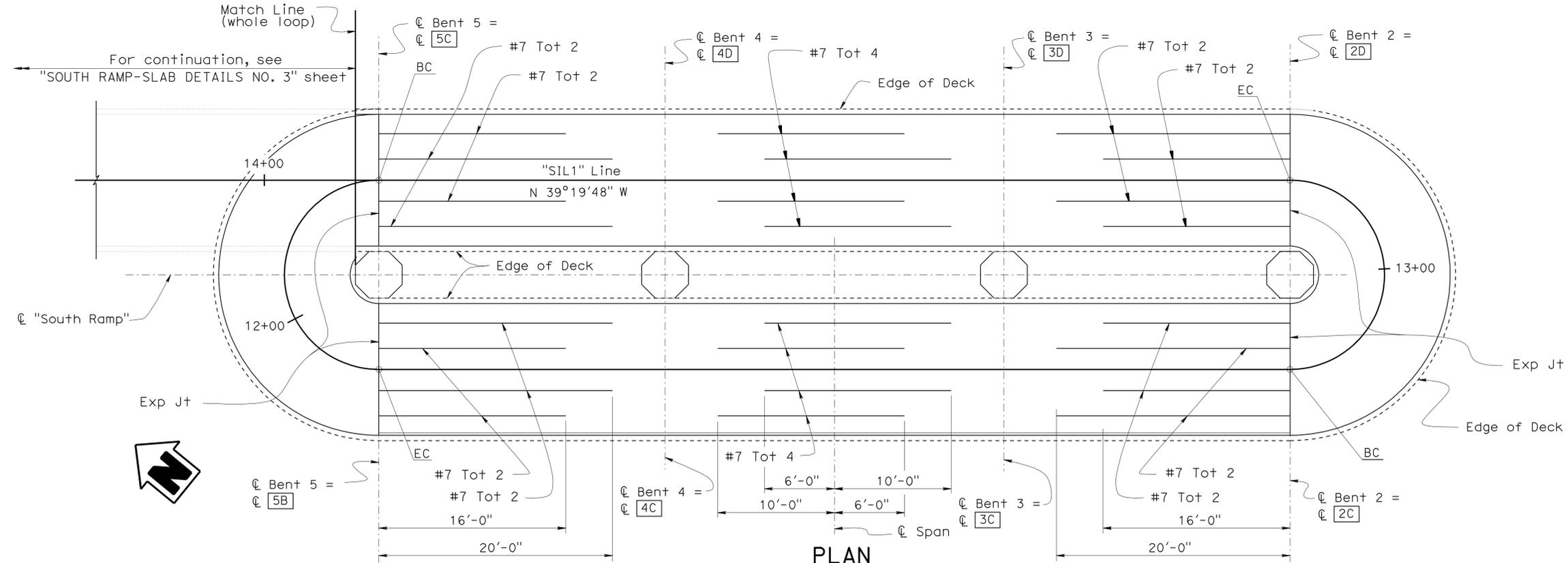
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PLAN

3/16" = 1'-0"

ADDITIONAL TOP REINFORCEMENT - UPPER LEVEL



PLAN

3/16" = 1'-0"

ADDITIONAL BOTTOM REINFORCEMENT - UPPER LEVEL

Legend: [xx] Indicates Cantilever designation

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY S. Cholda	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

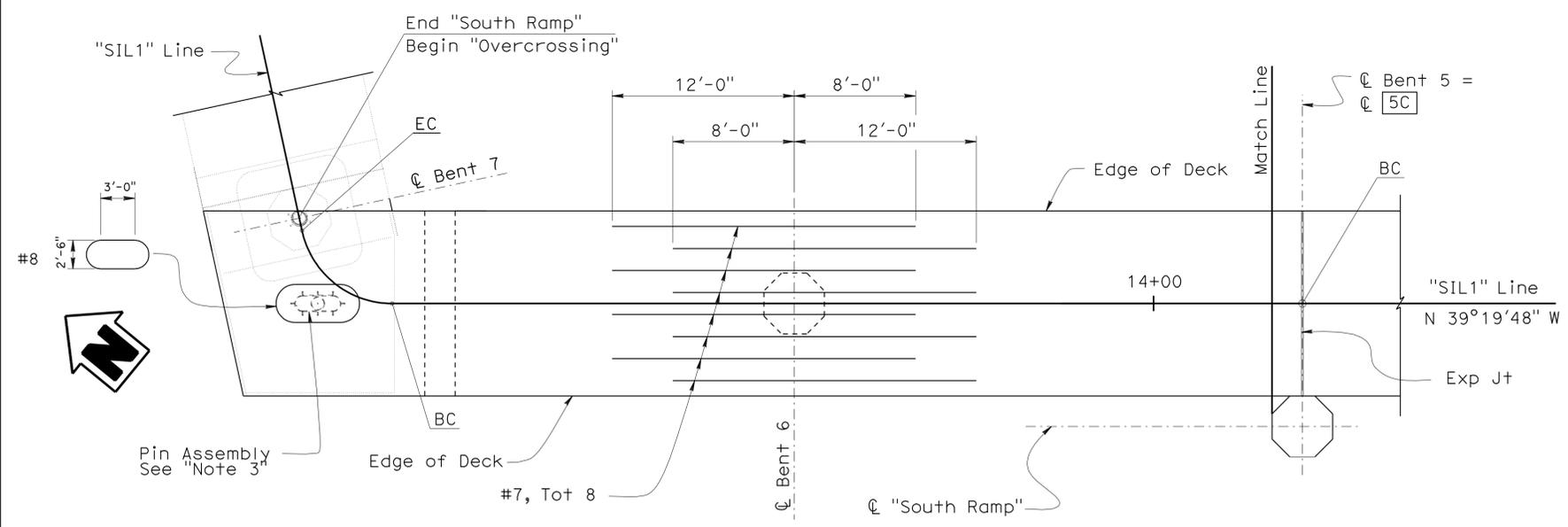
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

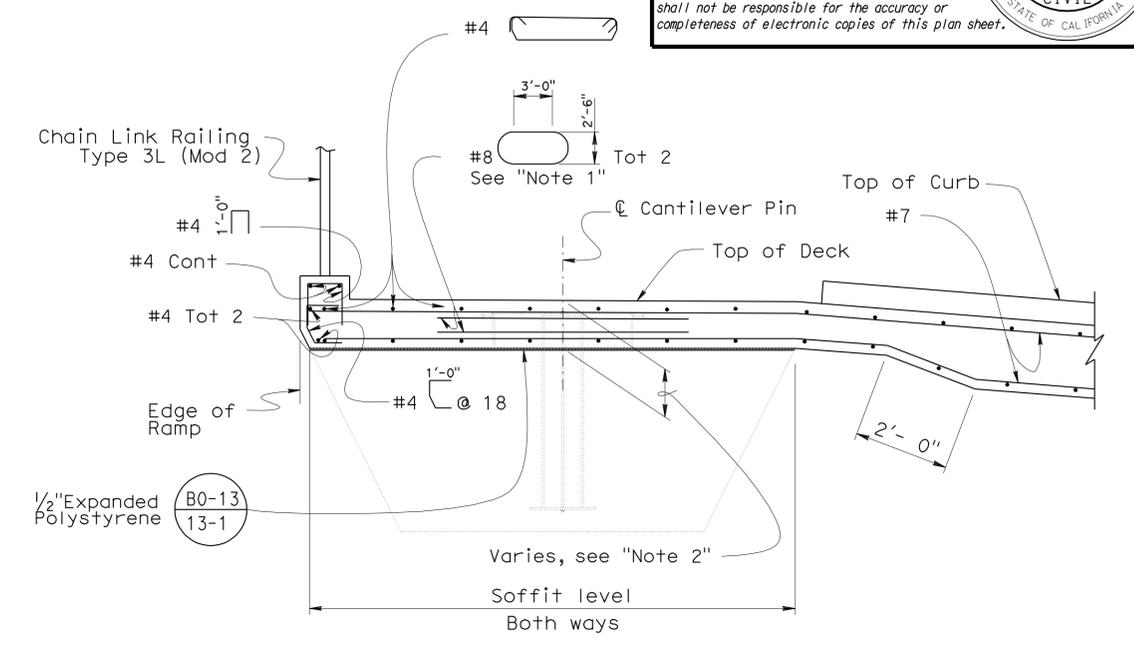
SILVERBOW AVENUE PEDESTRIAN OC
 SOUTH RAMP-SLAB DETAILS NO. 2

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

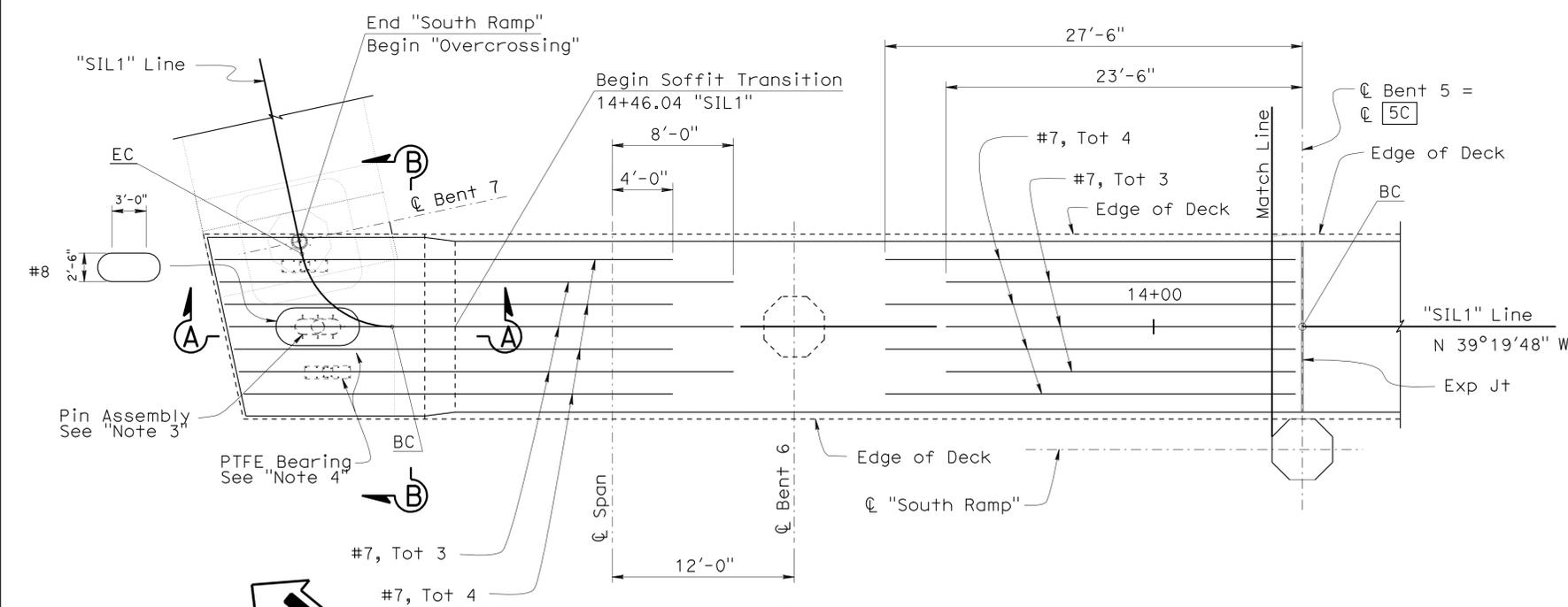
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	980	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
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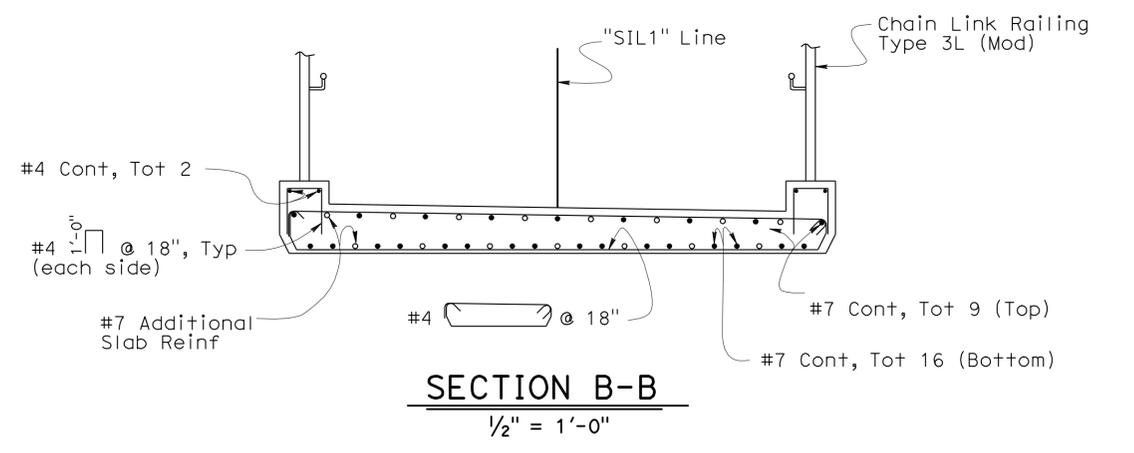
PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL TOP REINFORCEMENT - UPPER LEVEL



SECTION A-A
 $\frac{1}{2}'' = 1'-0''$



PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL BOTTOM REINFORCEMENT - UPPER LEVEL



SECTION B-B
 $\frac{1}{2}'' = 1'-0''$

- Notes
- Hoops shall be made continuous by Ultimate Splice.
 - 1'-1/2" at the intersection of "SIL1" Line and Bent 7 Cantilever Const Jt.
 - For Pin Assembly details, see "OVERCROSSING-BENT CAP DETAILS NO. 2" and "PIN ASSEMBLY DETAILS" sheets.
 - For bearing details, see "OVERCROSSING-BENT CAP DETAILS NO. 2" and "PTFE BEARING DETAILS" sheets.

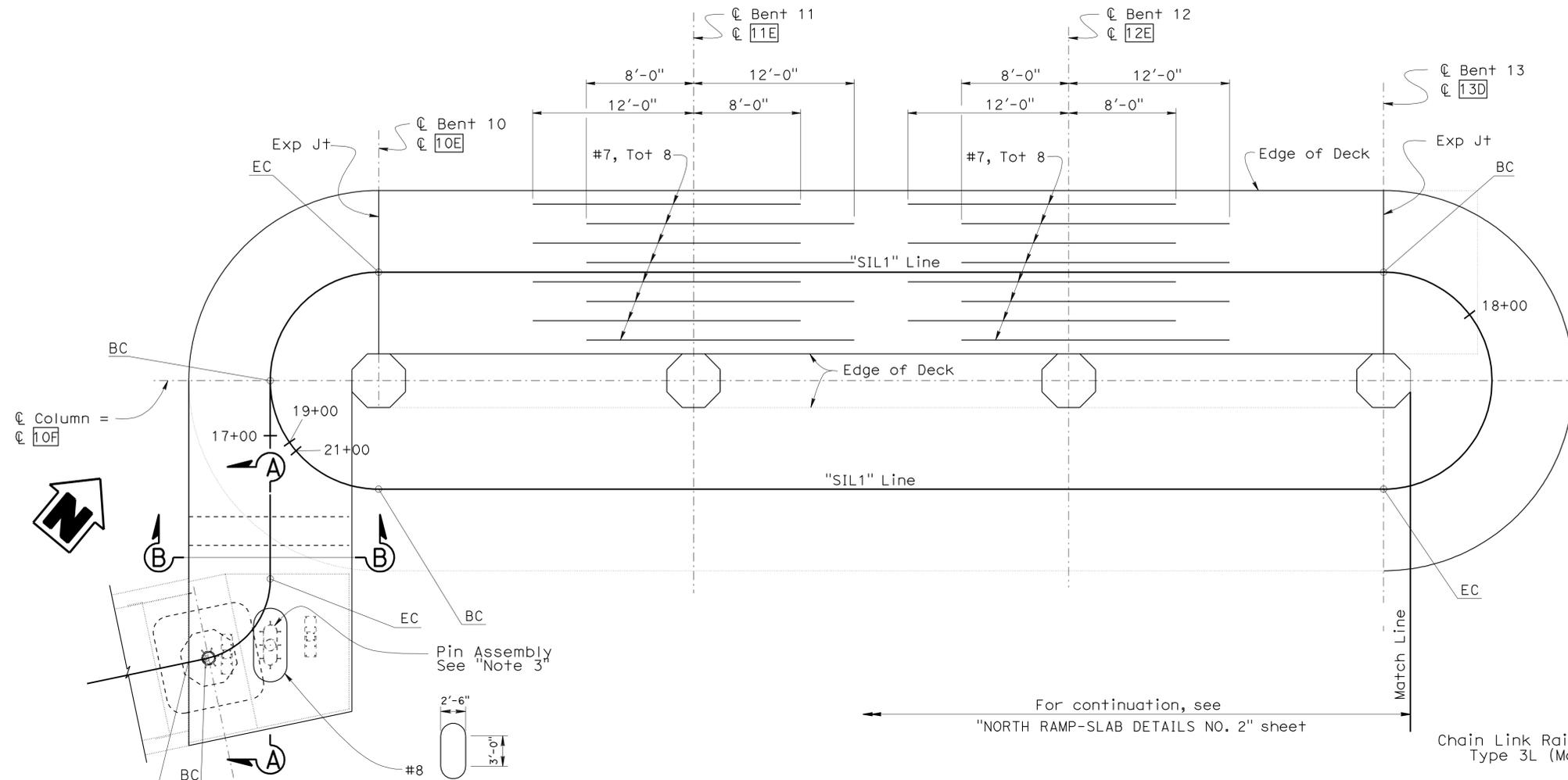
Legend:
 [xxx] Indicates Cantilever designation

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC SOUTH RAMP-SLAB DETAILS NO. 3	
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97		
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik						
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 11-22-10 03-08-11 09-10-11 10-12-11 11-16-11 01-03-12	SHEET 78 OF 101

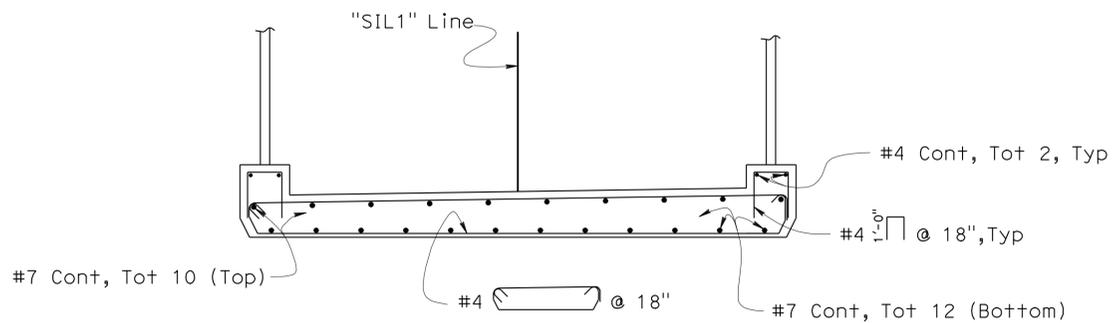
USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	981	1288

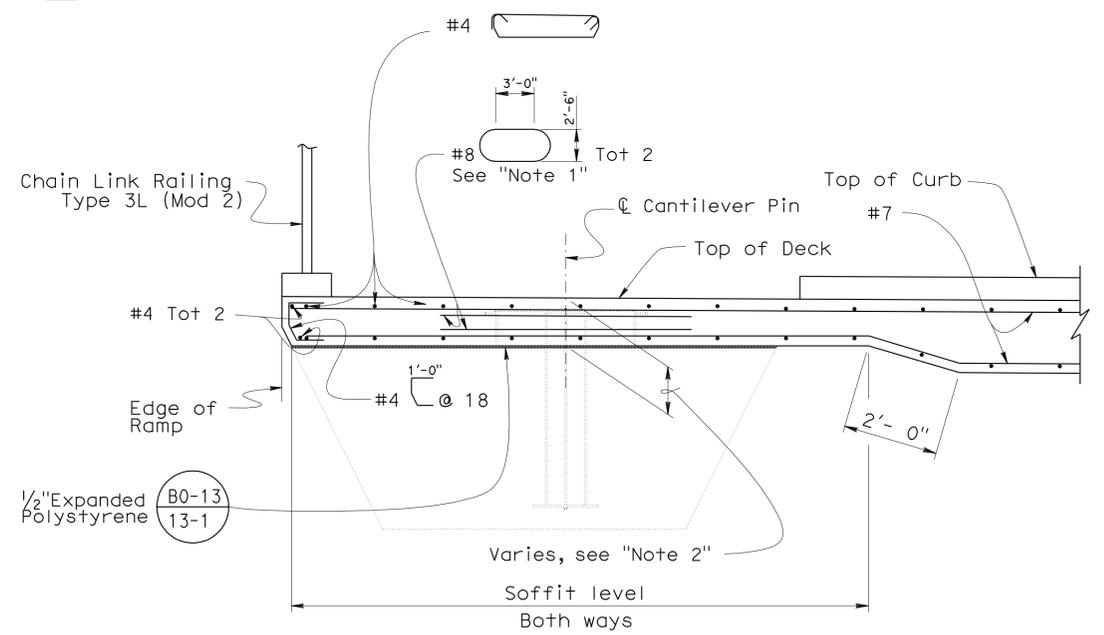
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL TOP REINFORCEMENT - UPPER LEVEL



SECTION B-B
 $\frac{1}{2}'' = 1'-0''$



SECTION A-A
 $\frac{1}{2}'' = 1'-0''$

- Notes:
1. Hoops shall be made continuous by Ultimate Splice
 2. $1'-0\frac{1}{2}''$ at the intersection of "SIL1" Line and "BENT 9" cantilever Const Jt. Dimension varies with longitudinal slope and cross slope.
 3. For Pin Assembly details, see "OVERCROSSING-BENT CAP DETAILS NO. 2" and "PIN ASSEMBLY DETAILS" sheets.
 4. See "ADDITIONAL BOTTOM SLAB REINFORCEMENT-UPPER LEVEL" on "NORTH RAMP-SLAB DETAILS NO. 2" sheet.

Legend:
 [XXX] Indicates Cantilever designation

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

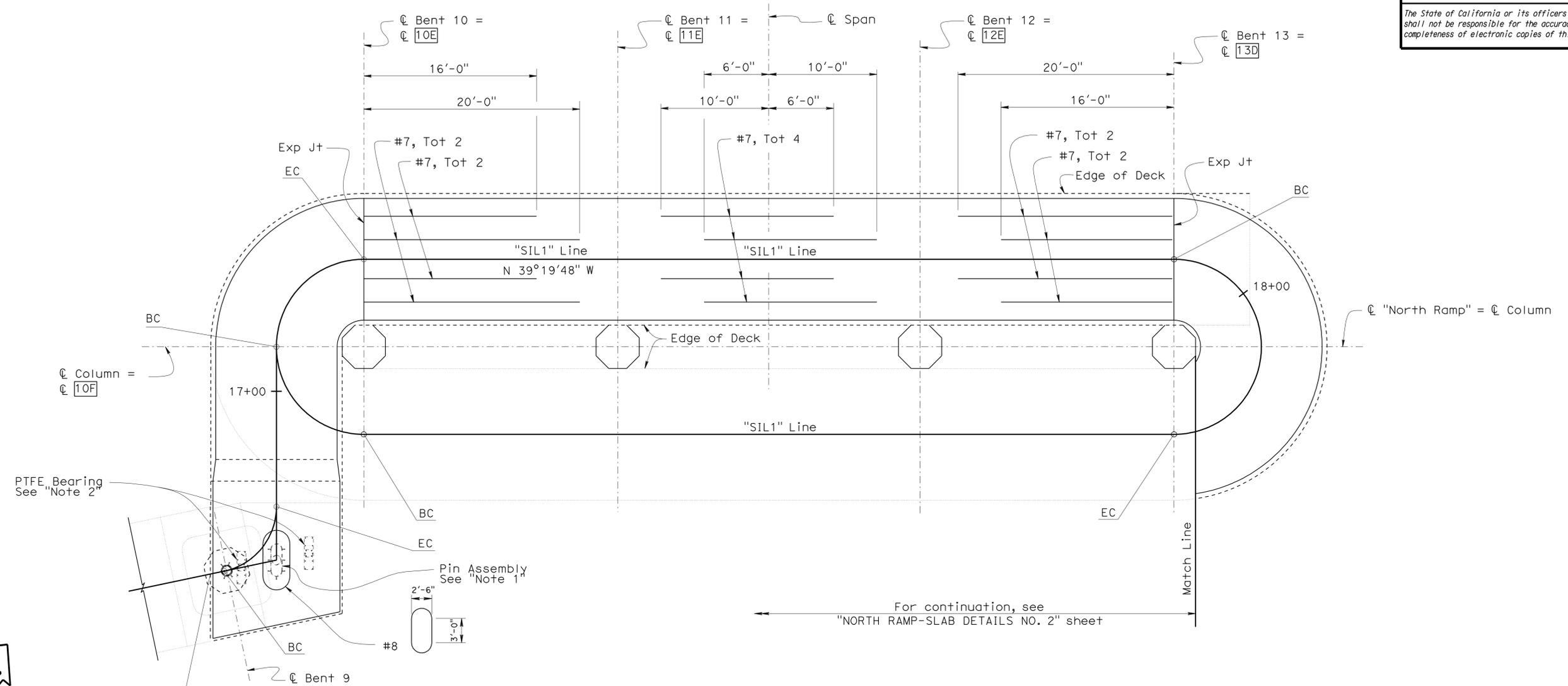
BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
NORTH RAMP-SLAB DETAILS NO. 1

REVISION DATES
3-18-11 7-07-11 8-20-11 9-08-11 11-18-11 01-03-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	982	1288

Andrew P. Rittenhouse 12-12-11
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 No. 61006
 Exp. 12-31-12
 CIVIL
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PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL BOTTOM REINFORCEMENT - UPPER LEVEL

- Notes:
- For Pin Assembly details, see "OVERCROSSING-BENT CAP DETAILS NO. 2" and "PIN ASSEMBLY DETAILS" sheets.
 - For bearing details, see "OVERCROSSING-BENT CAP DETAILS NO. 2" and "PTFE BEARING DETAILS" sheets.

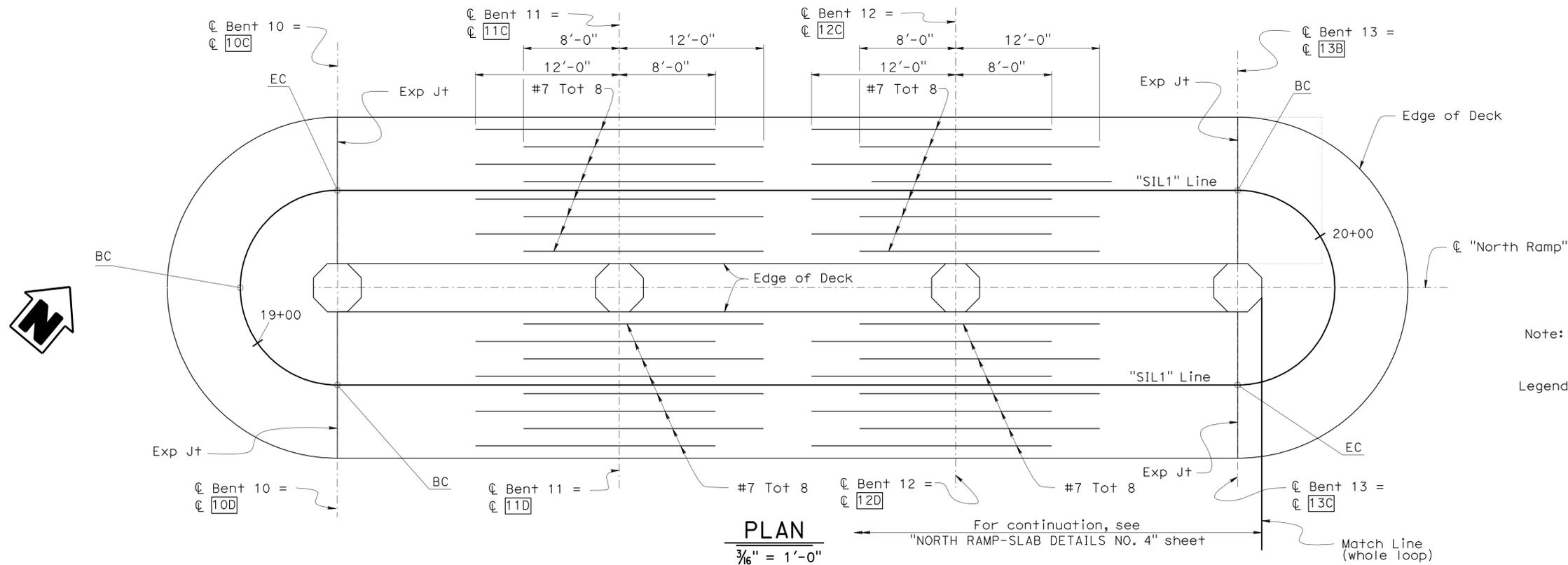
Legend:
 [xxx] Indicates Cantilever designation

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC NORTH RAMP-SLAB DETAILS NO. 2	
	DETAILS	BY S. Cholda	CHECKED Laith Bahia			POST MILE	3.97		
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 3-18-11, 7-07-11, 8-20-11, 9-08-11, 11-30-11, 01-03-12		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 53-3043r-n-sdt1_05.dgn	SHEET	80	OF	101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50

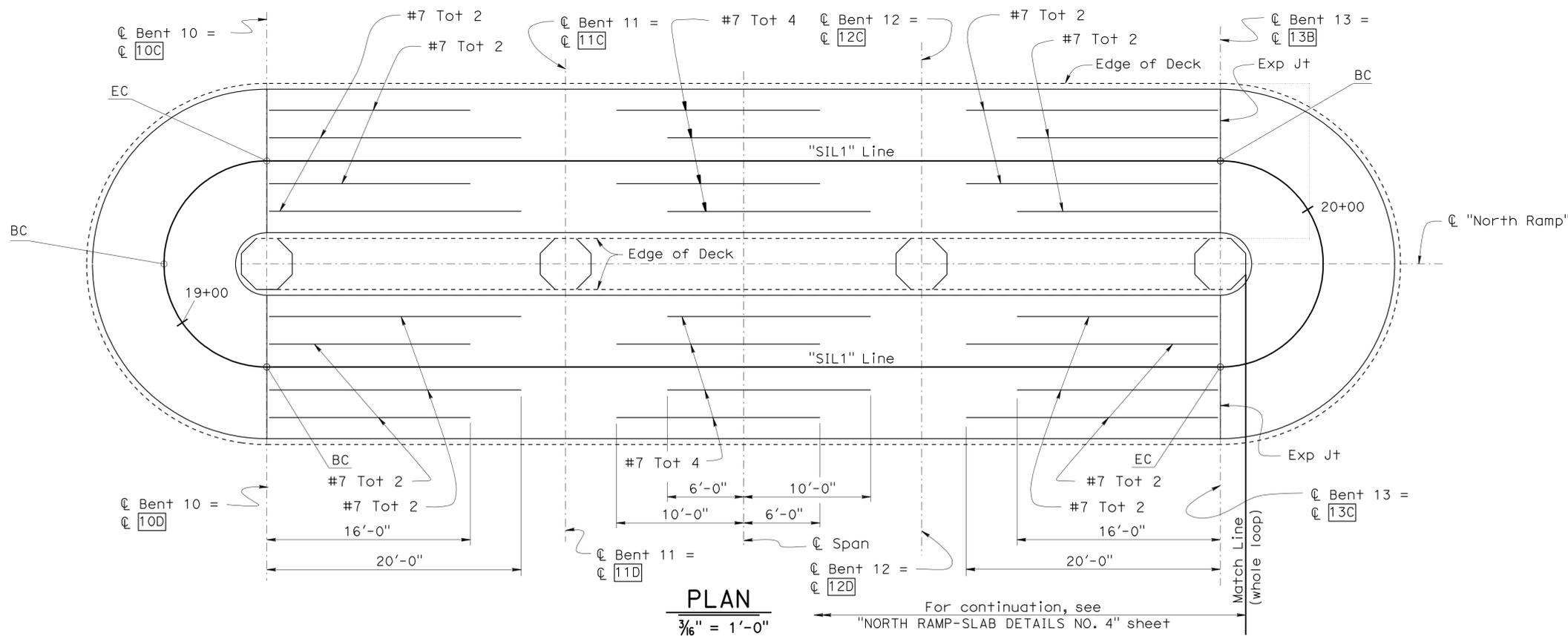
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	983	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
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 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
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PLAN
 $\frac{3}{16}'' = 1'-0''$
 For continuation, see "NORTH RAMP-SLAB DETAILS NO. 4" sheet

ADDITIONAL TOP REINFORCEMENT - MIDDLE LEVEL



PLAN
 $\frac{3}{16}'' = 1'-0''$
 For continuation, see "NORTH RAMP-SLAB DETAILS NO. 4" sheet

ADDITIONAL BOTTOM REINFORCEMENT - MIDDLE LEVEL

Note:
 1. Reinforcement is symmetrical about "C North Ramp".
 Legend:
 [xxx] Indicates Cantilever designation

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY S. Cholda	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

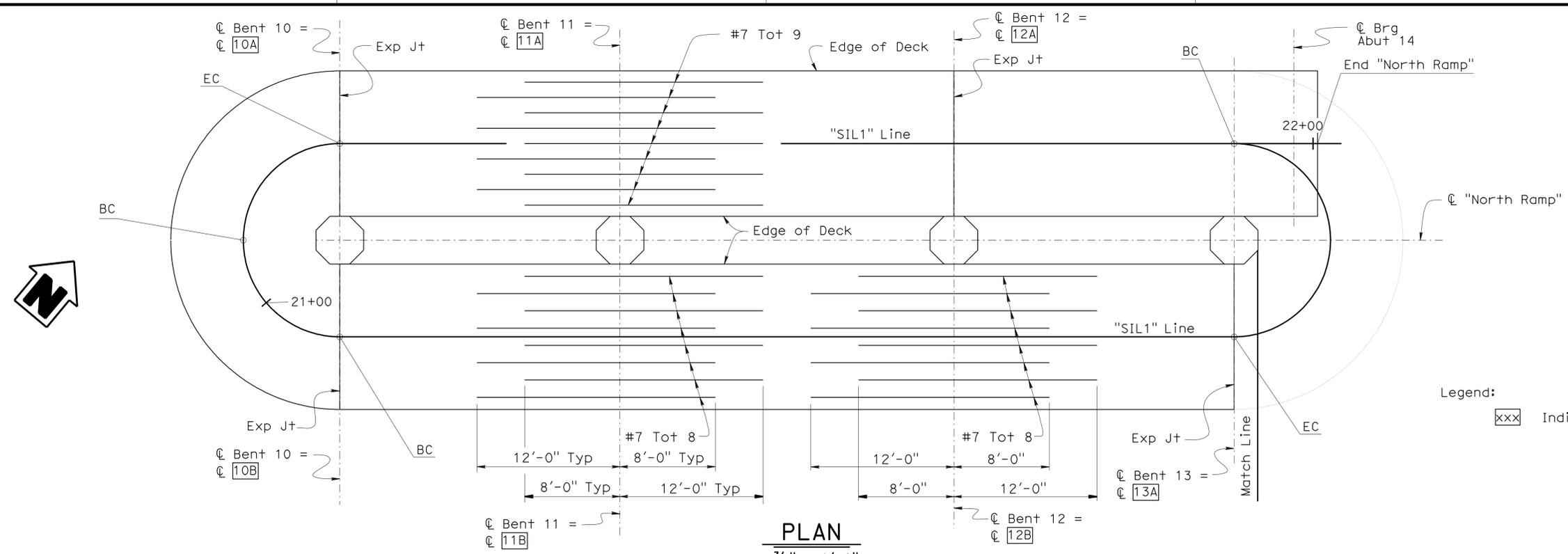
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

SILVERBOW AVENUE PEDESTRIAN OC
 NORTH RAMP-SLAB DETAILS NO. 3

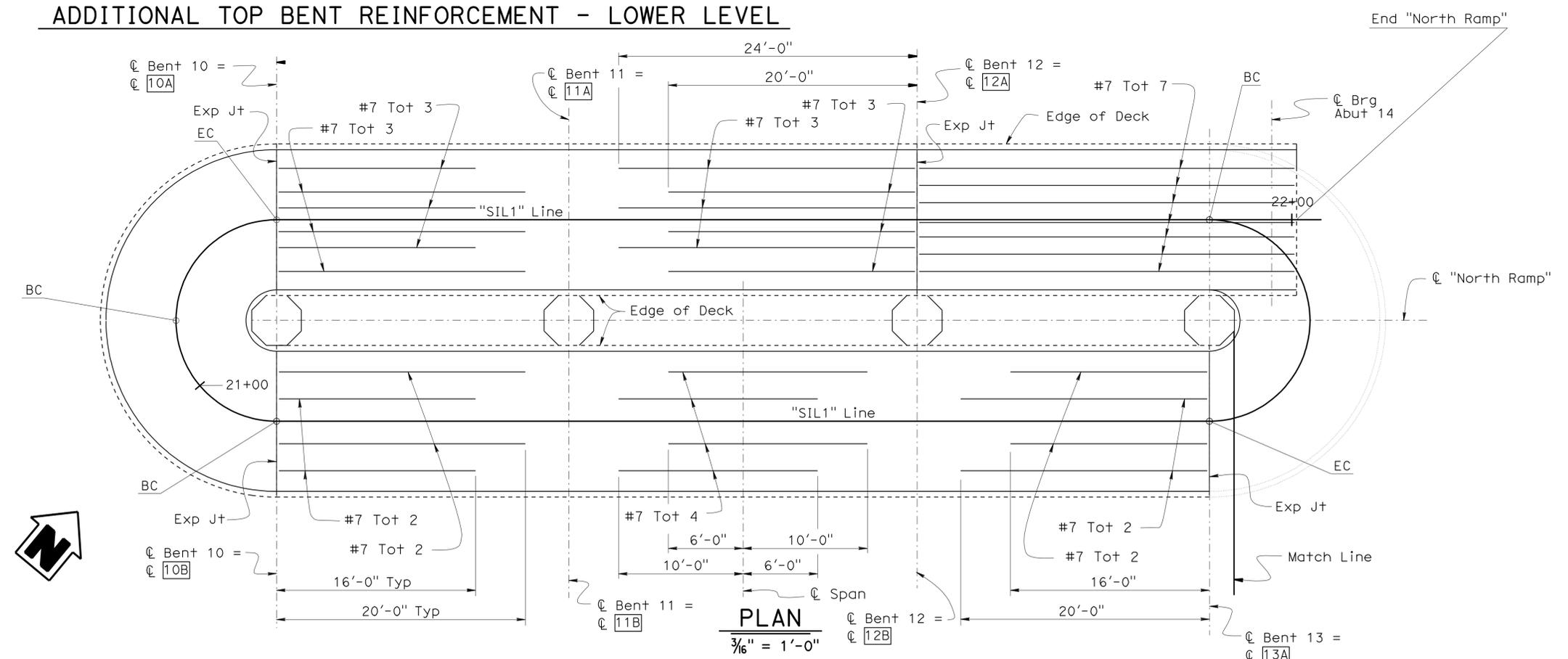
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	984	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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Legend: xxx Indicates Cantilever designation

PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL TOP BENT REINFORCEMENT - LOWER LEVEL



PLAN
 $\frac{3}{16}'' = 1'-0''$
ADDITIONAL BOTTOM BENT REINFORCEMENT - LOWER LEVEL

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY S. Cholda	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

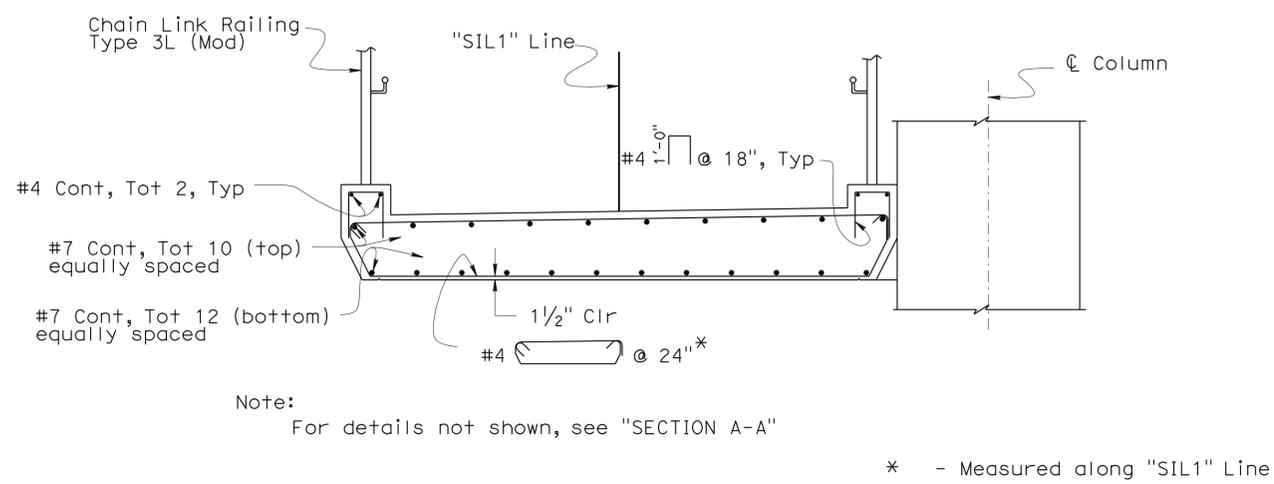
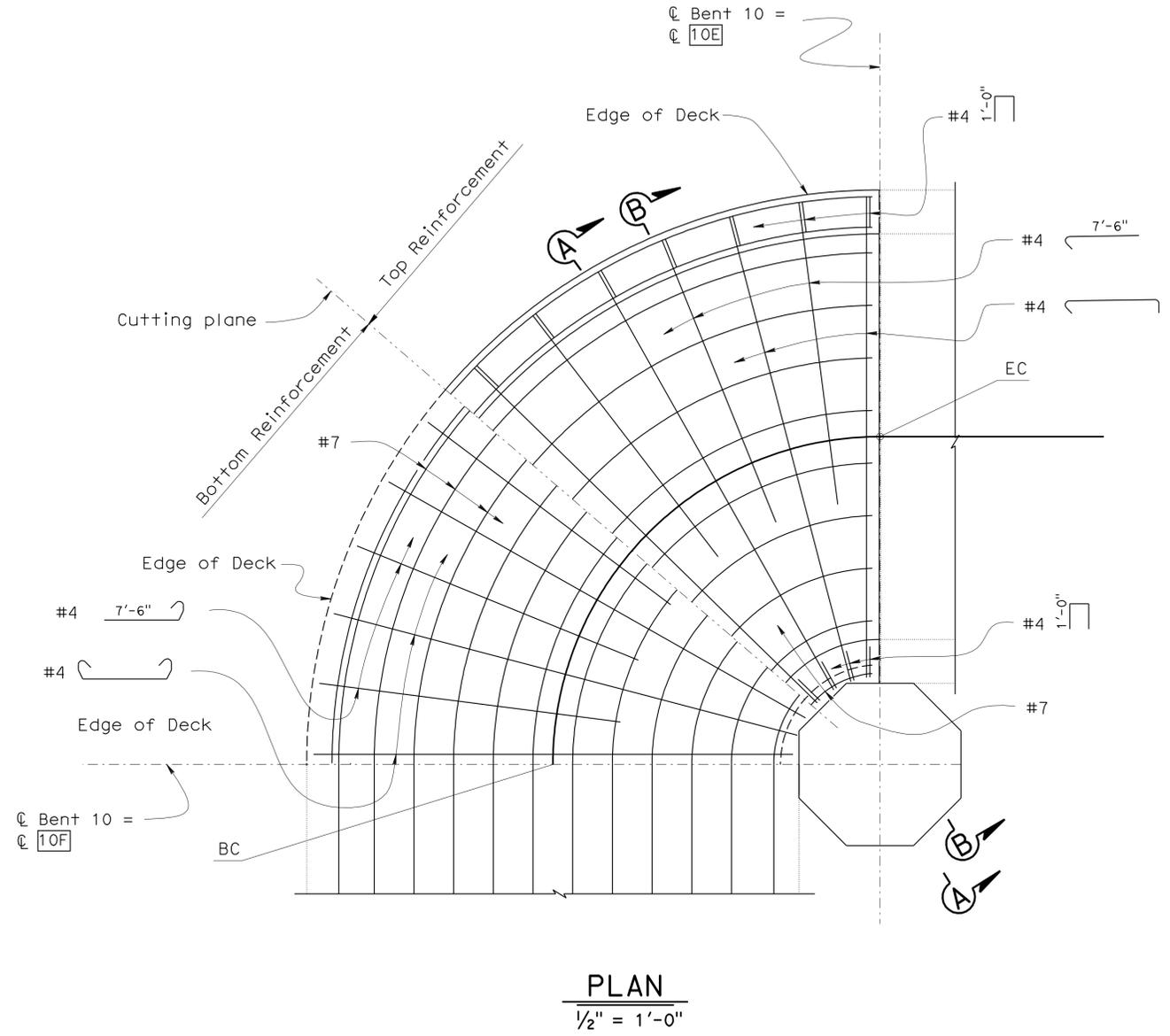
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

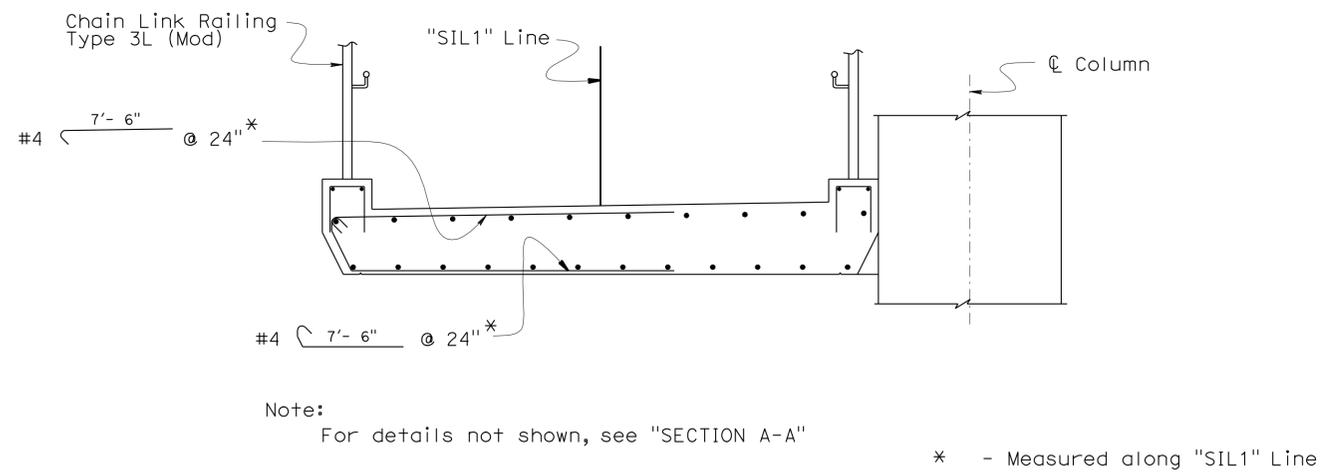
SILVERBOW AVENUE PEDESTRIAN OC
NORTH RAMP-SLAB DETAILS NO. 4

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	985	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			Andrew P. Rittenhouse No. 61006 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA		
3-26-12 PLANS APPROVAL DATE					
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SECTION A-A
1/2" = 1'-0"



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

Legend:
xxx Indicates Cantilever designation

**BENT 10
CANTILEVERS 10E TO 10F**

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

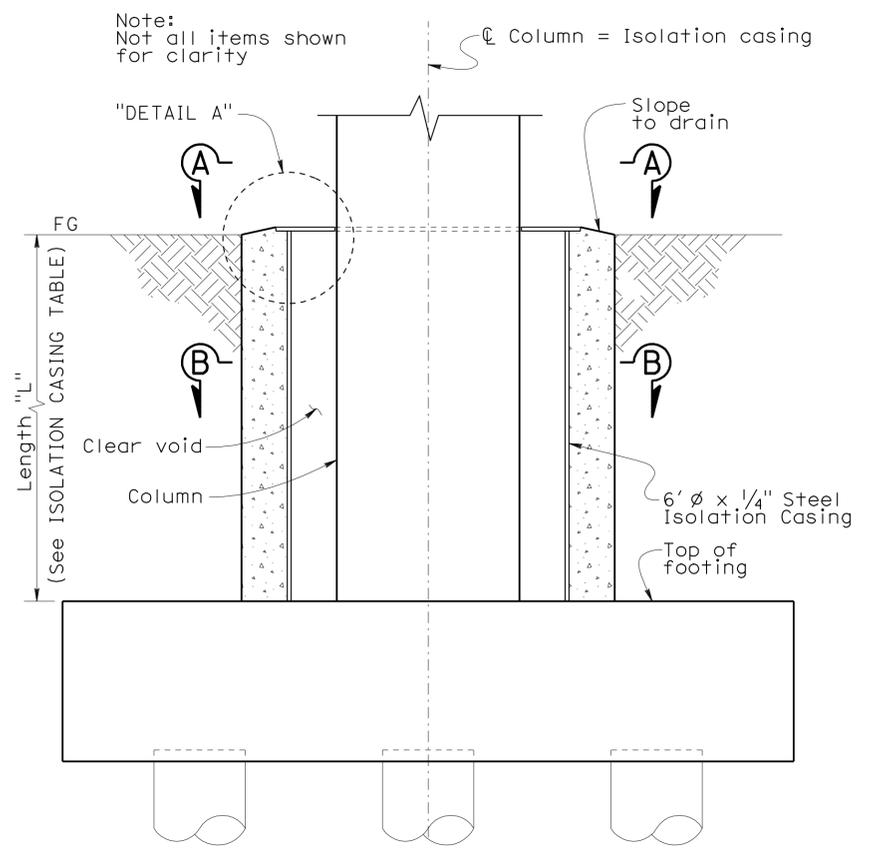
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

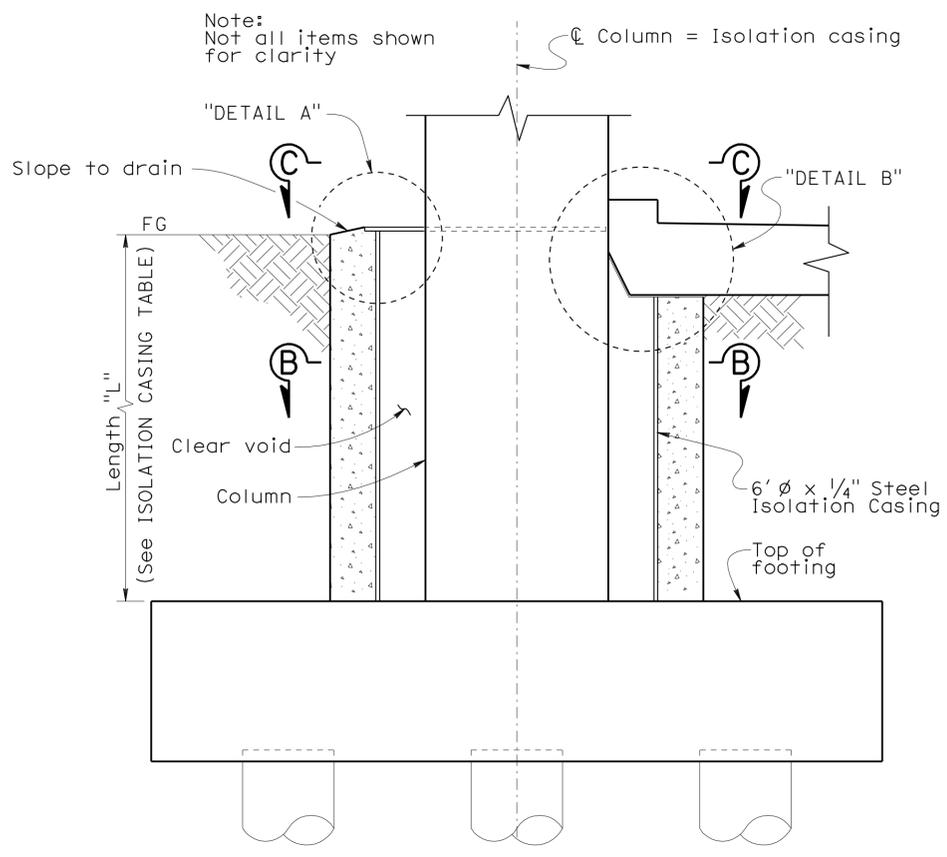
BRIDGE NO.	53-3043
POST MILE	3.97

**SILVERBOW AVENUE PEDESTRIAN OC
NORTH RAMP-SLAB DETAILS NO. 5**

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50



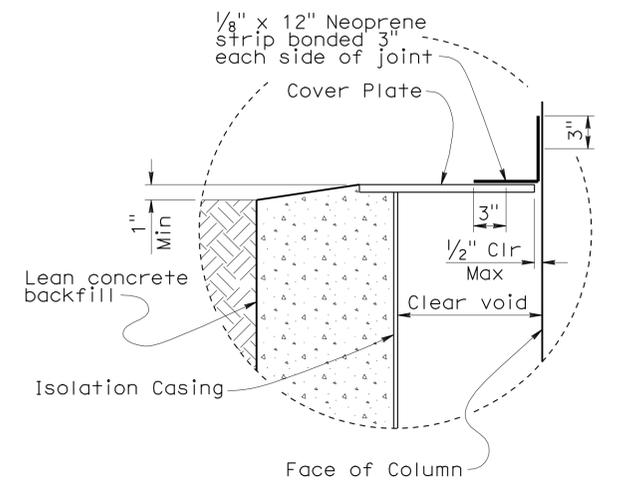
BENTS 2,3,10, & 11
ELEVATION
 1/2" = 1'-0"



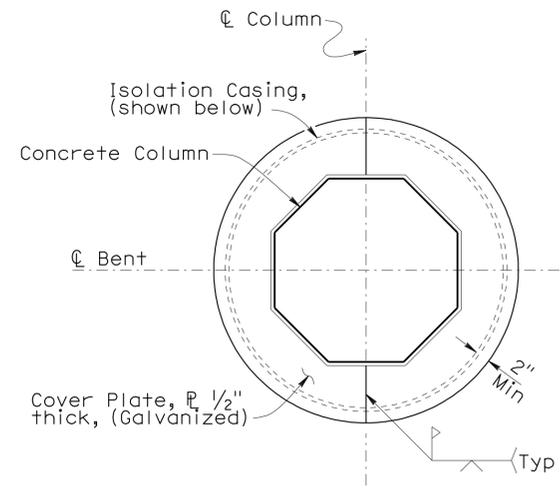
BENTS 5 & 13
ELEVATION
 1/2" = 1'-0"

Legend:
 Indicates limits of payment for lean concrete backfill

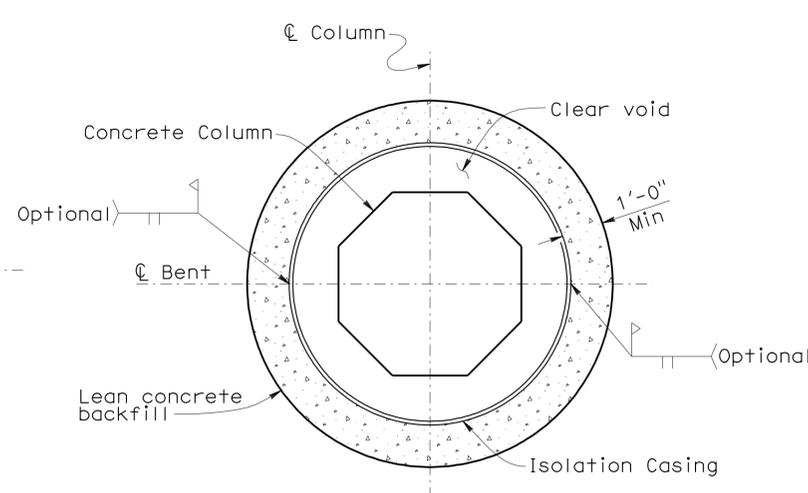
Bent No.	Length "L" (ft)
2	8'-6"
3	8'-6"
4	10'-6"
5	6'-6"
10	9'-0"
11	9'-0"
12	10'-6"
13	7'-0"



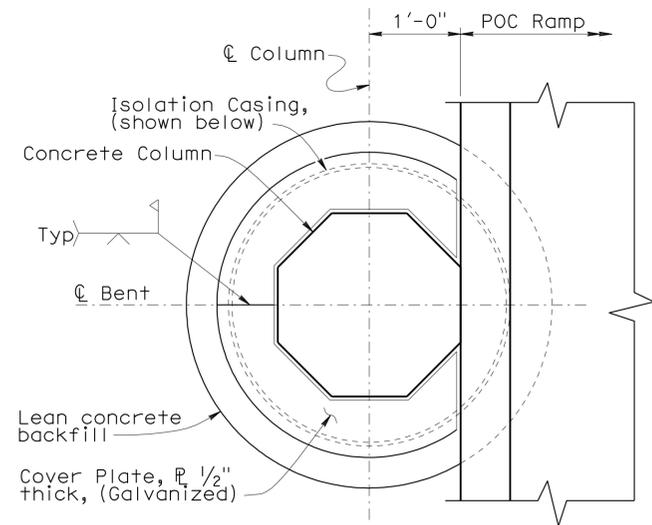
DETAIL A
 NO SCALE



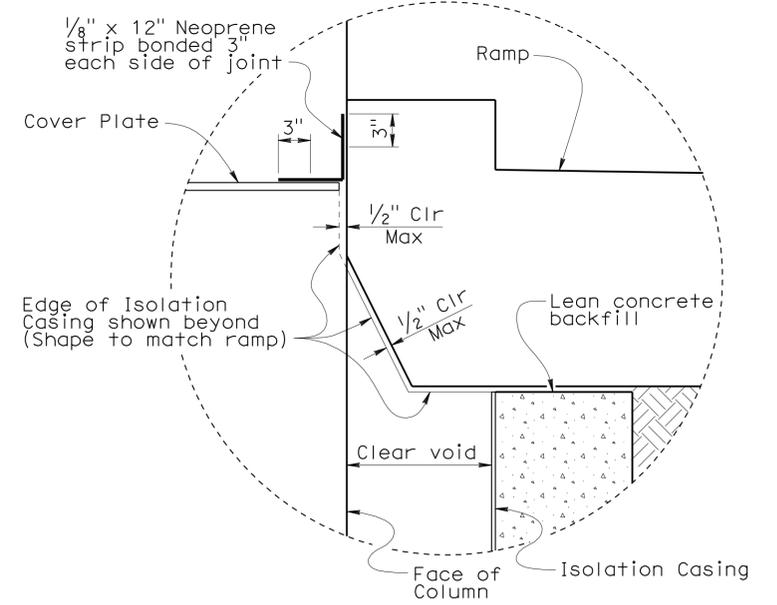
SECTION A-A
 1/2" = 1'-0"



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



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



DETAIL B
 NO SCALE

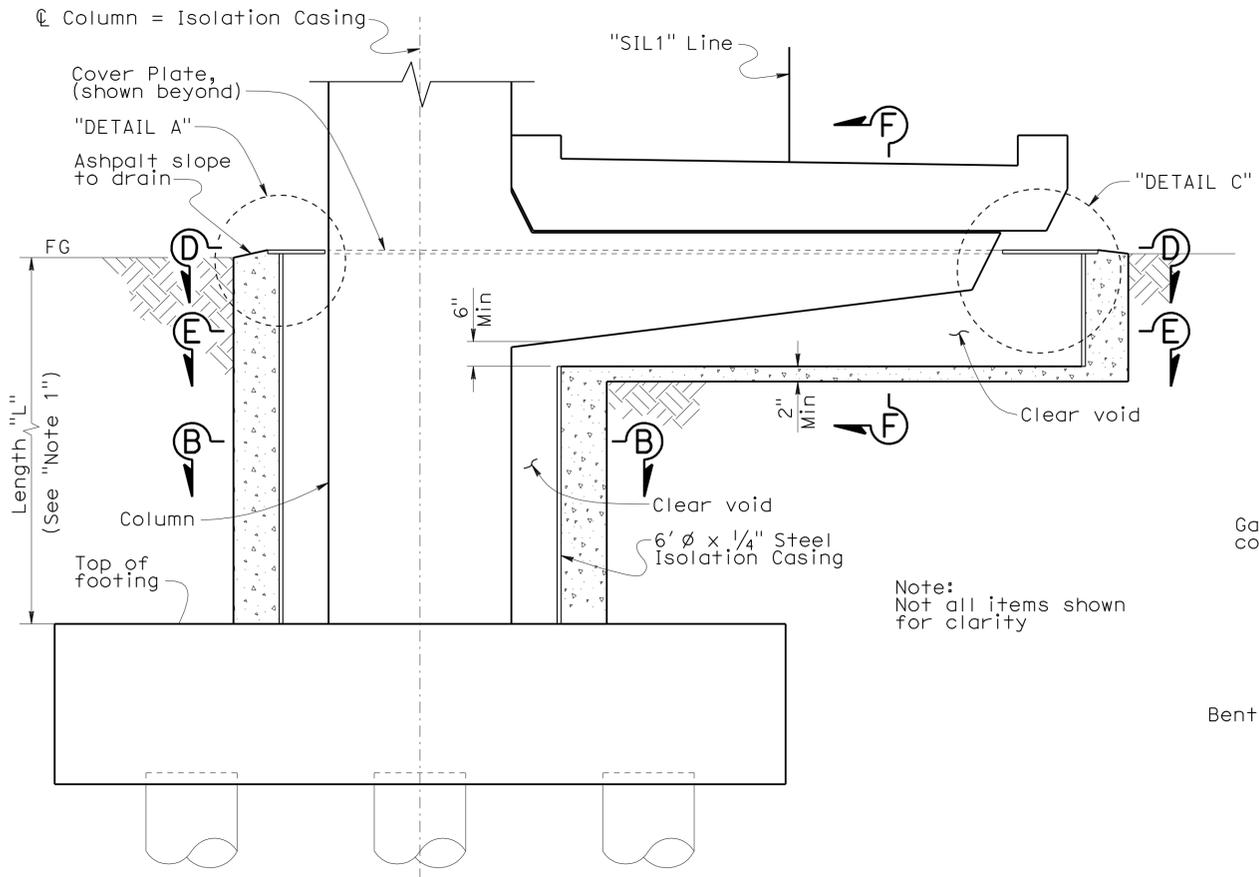
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	987	1288
REGISTERED CIVIL ENGINEER		DATE		No.	
Andrew P. Rittenhouse		12-12-11		61006	
PLANS APPROVAL DATE		No.		Exp.	
3-26-12		12-31-12		CIVIL	
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- Notes:
- For Isolation Casing length "L" see "ISOLATION CASING TABLE" on "ISOLATION DETAILS NO.1" sheet.
 - See "SECTION B-B" on sheet "ISOLATION CASING DETAILS NO. 1"

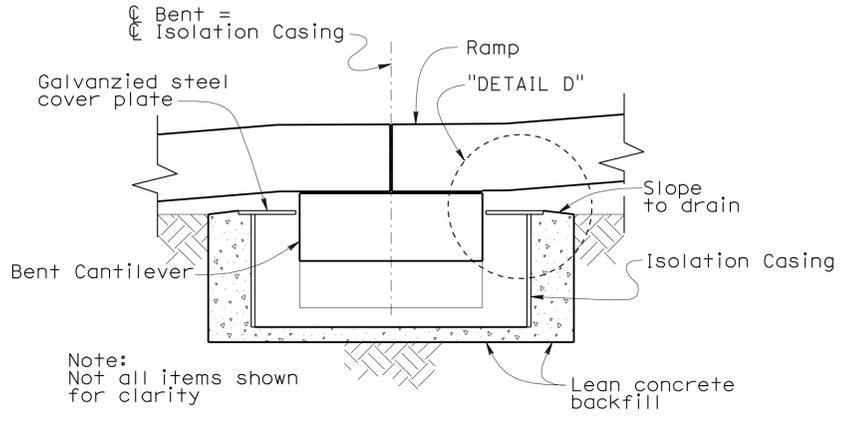
Legend:



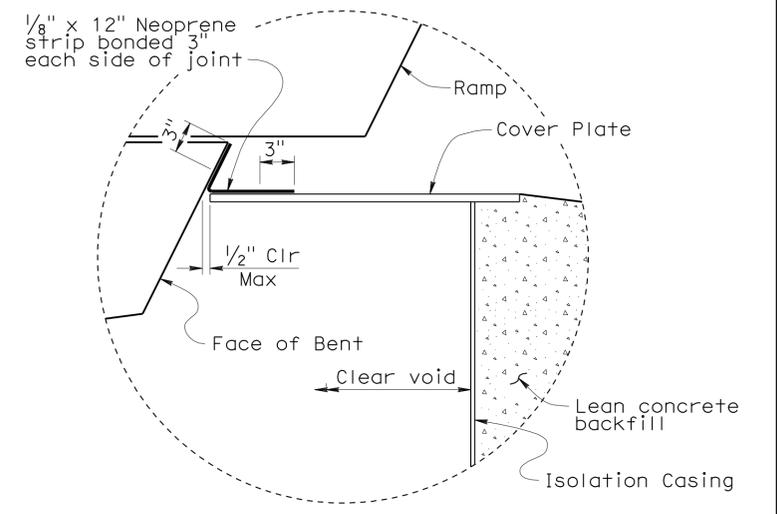
Indicates limits of payment for lean concrete backfill



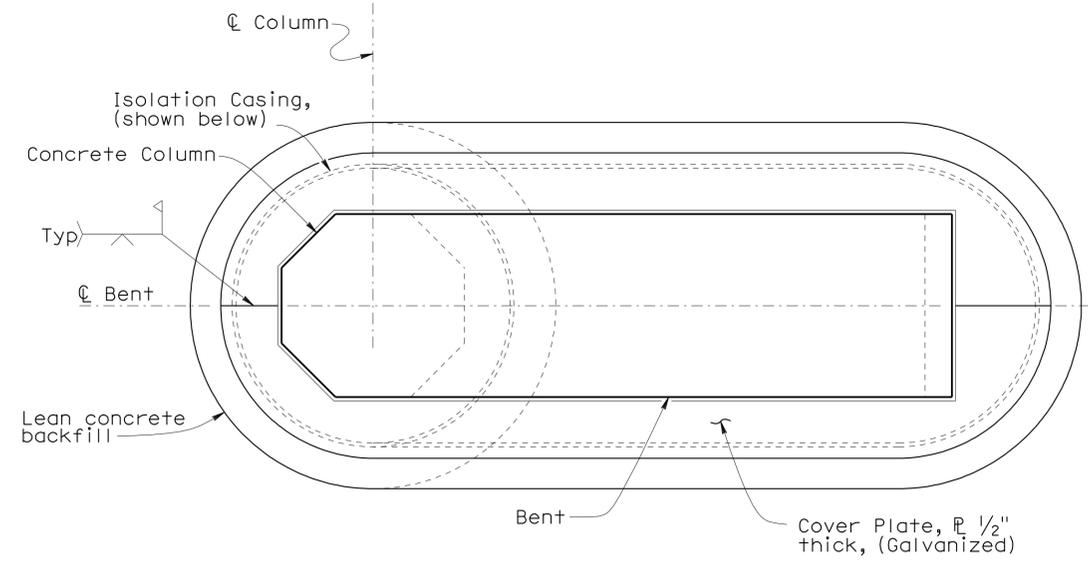
BENTS 4 & 12
ELEVATION
1/2" = 1'-0"



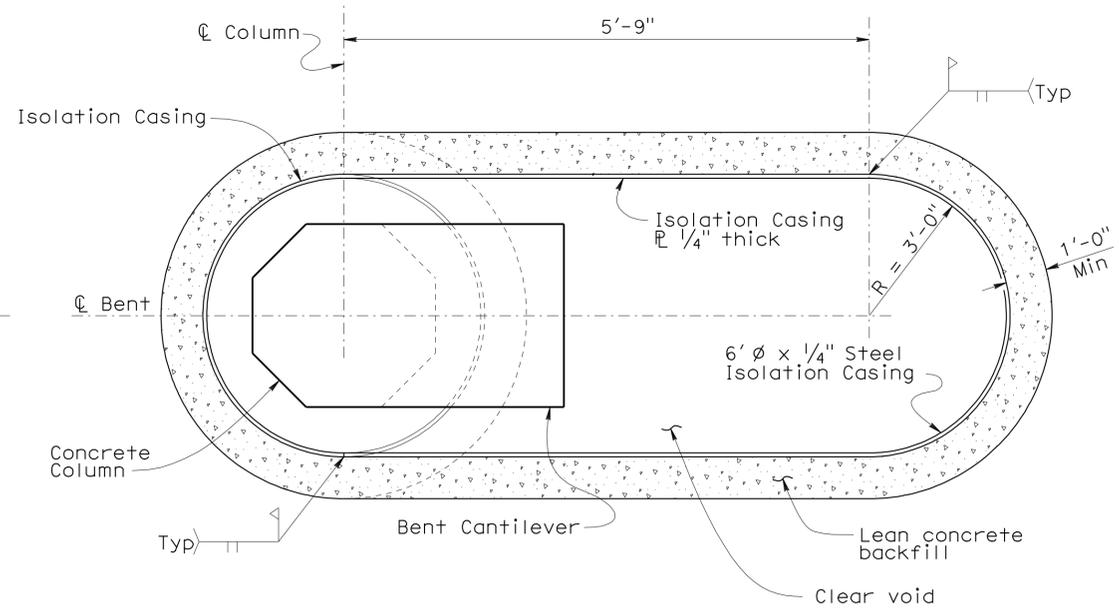
SECTION F-F
1/2" = 1'-0"



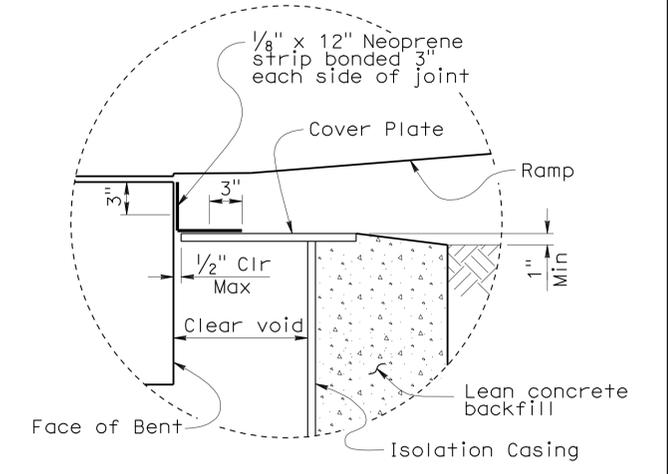
DETAIL C
NO SCALE



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



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



DETAIL D
NO SCALE

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY T. Trefz	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

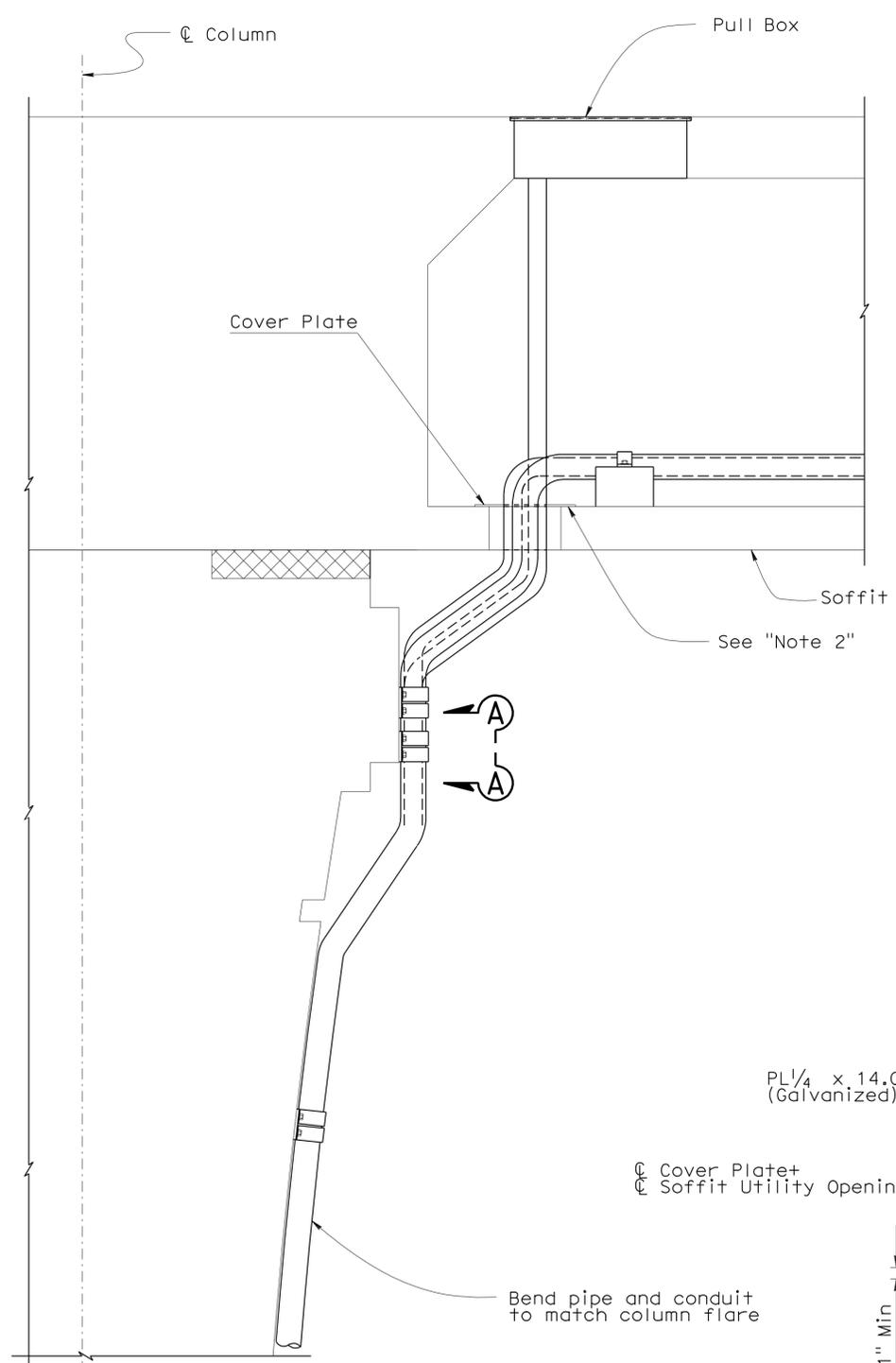
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO.	53-3043
POST MILE	3.97

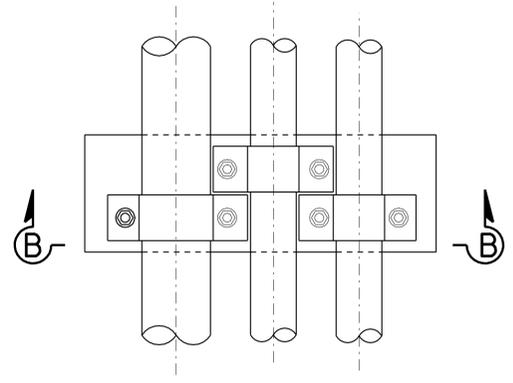
SILVERBOW AVENUE PEDESTRIAN OC
RAMP-ISOLATION CASING DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	988	1288

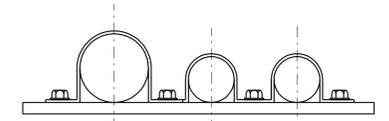
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
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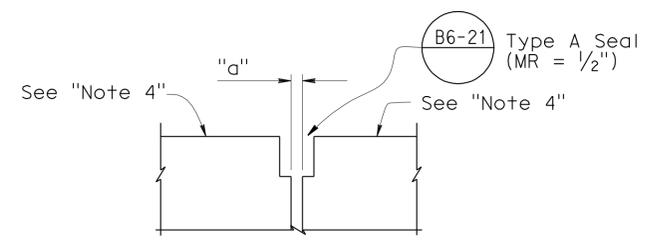
ELEVATION
1" = 1'-0"



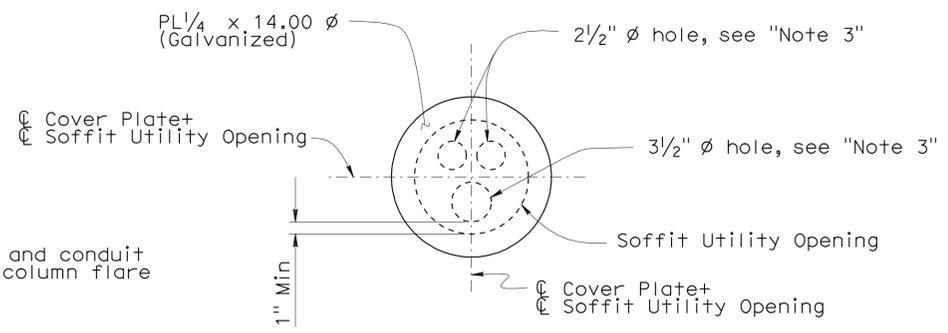
VIEW A-A
1" = 1'-0"



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



EXP JT DETAIL (MR = 1/2")
1" = 1'-0"



COVER PLATE DETAIL
1/2" = 1'-0"

Notes:

1. Bent 7 shown, Bent 9 similar.
2. Smooth concrete surface 2" beyond cover plate diameter. Apply grease between plate and concrete surface.
3. Holes may be field drilled. If holes are field drilled, apply Zinc primer to protect against corrosion, then paint grey.
4. Slope of Ramp not shown.

MAIN RAMP - UTILITIES DETAIL (BENTS 7 & 9)

DESIGN	BY H. Setberg	CHECKED Laith Bahia
DETAILS	BY S. Cholda	CHECKED Laith Bahia
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

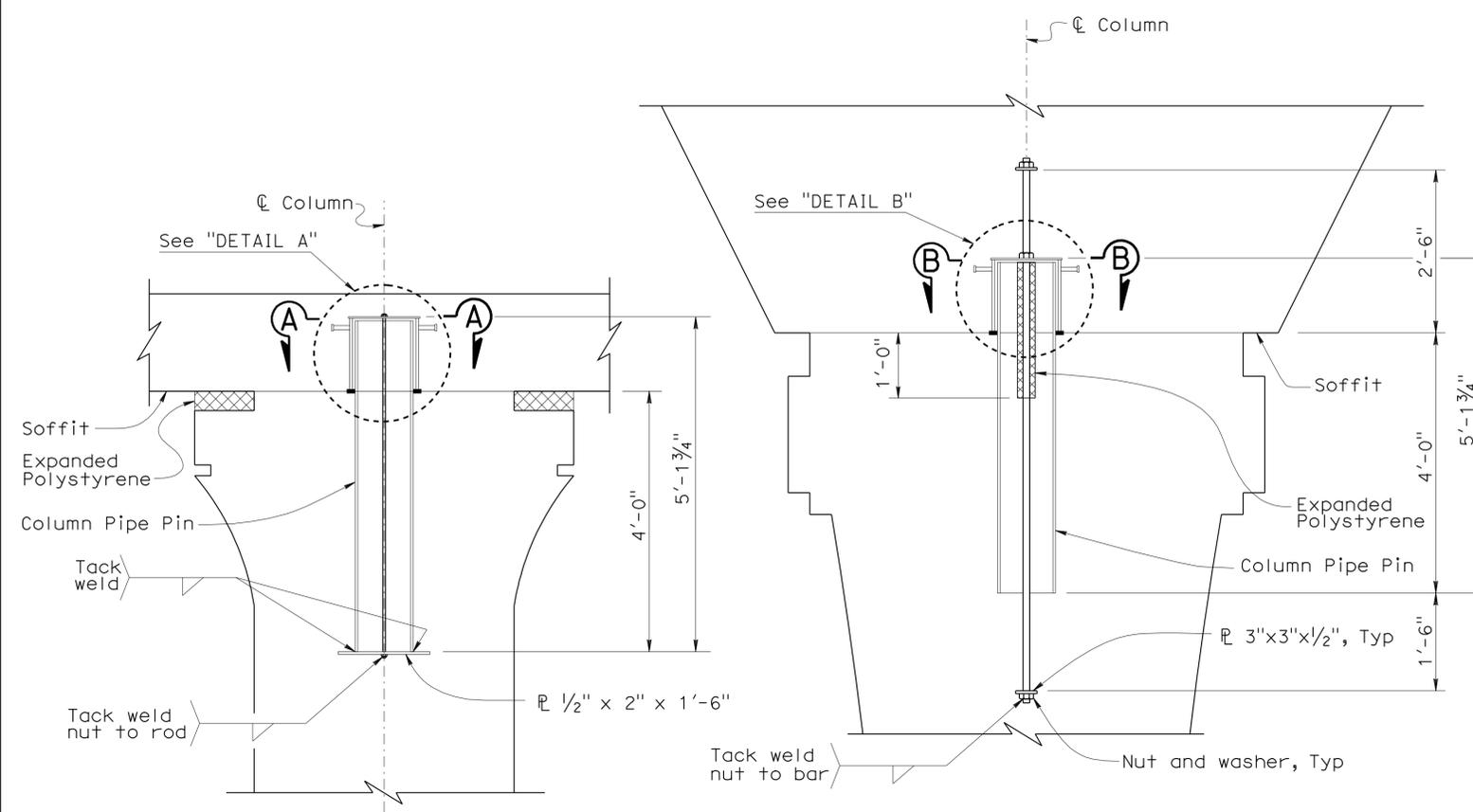
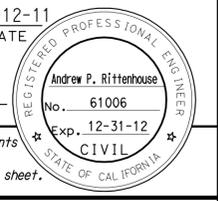
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
 DESIGN BRANCH **15**

BRIDGE NO.	53-3043
POST MILE	3.97

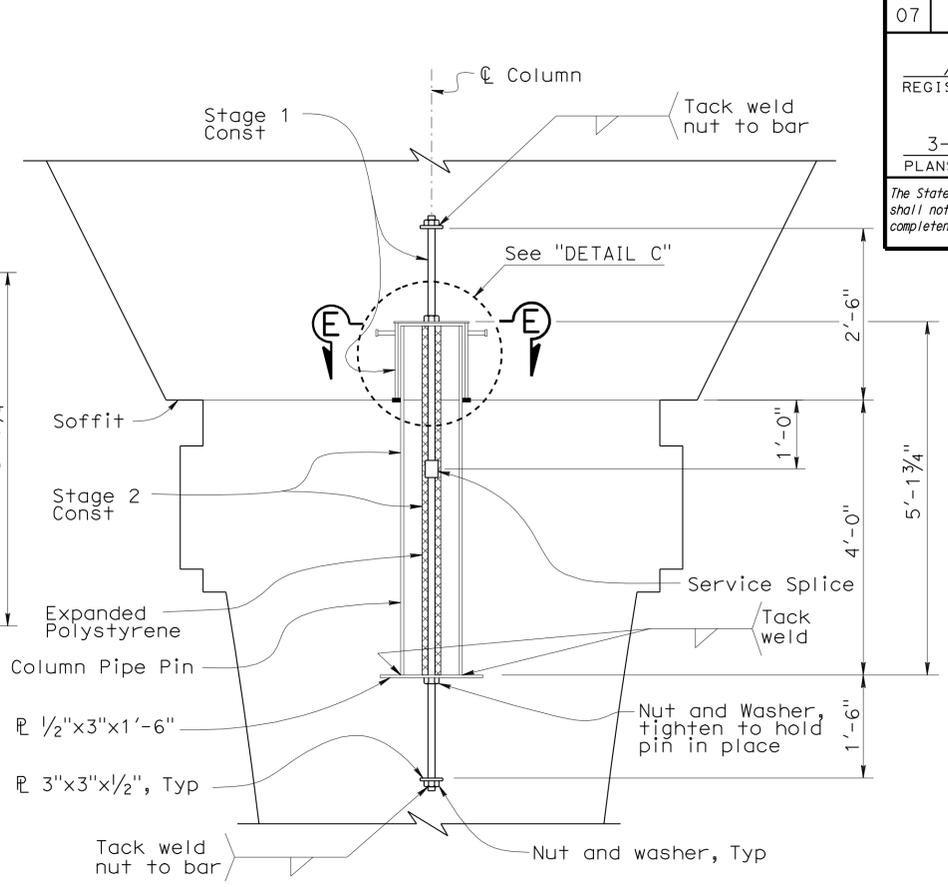
SILVERBOW AVENUE PEDESTRIAN OC
 MISCELLANEOUS DETAILS

REVISION DATES	SHEET	OF
5-28-10 10-12-11 11-10-11 01-11-11 01-21-11 02-07-11 03-19-11 06-23-11 07-14-11 08-18-11	86	101

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	989	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE					
3-26-12 PLANS APPROVAL DATE					
<i>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.</i>					



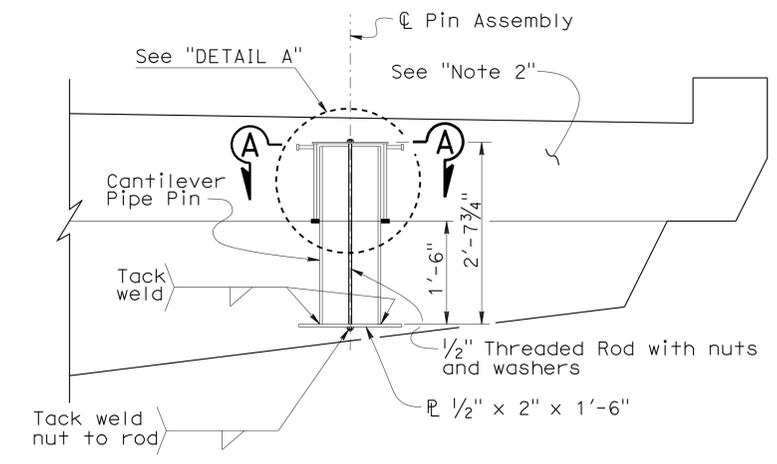
BENT 7, 8A, & 9



BENT 8

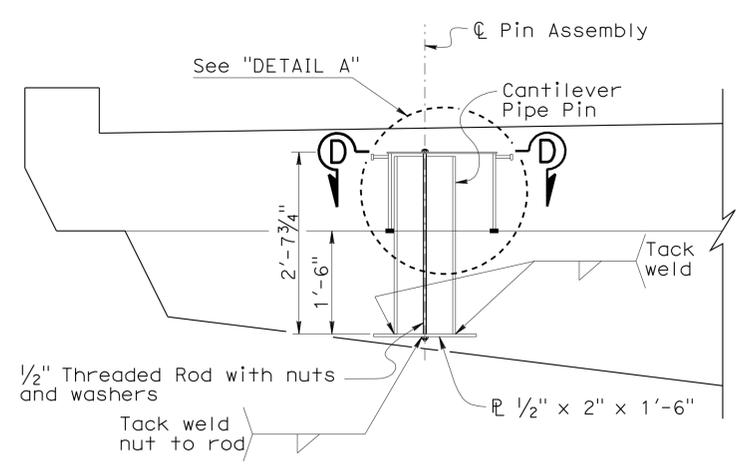
COLUMN PIN ASSEMBLY DETAIL
 $\frac{3}{4}'' = 1'-0''$

- Notes:
1. Reinforcing bars not shown for clarity.
 2. Bents 3 & 4 shown looking up station, bents 11 & 12 shown looking down station.
 3. Entire Pin Assembly shall be galvanized after fabrication.
 4. For "SECTION A-A", "SECTION B-B", "SECTION C-C", "SECTION D-D", "DETAIL A", and "DETAIL B", see "PIN ASSEMBLY DETAILS NO. 2" sheet.
 5. For "SECTION E-E" and "DETAIL C", see "PIN ASSEMBLY DETAILS NO. 3" sheet.



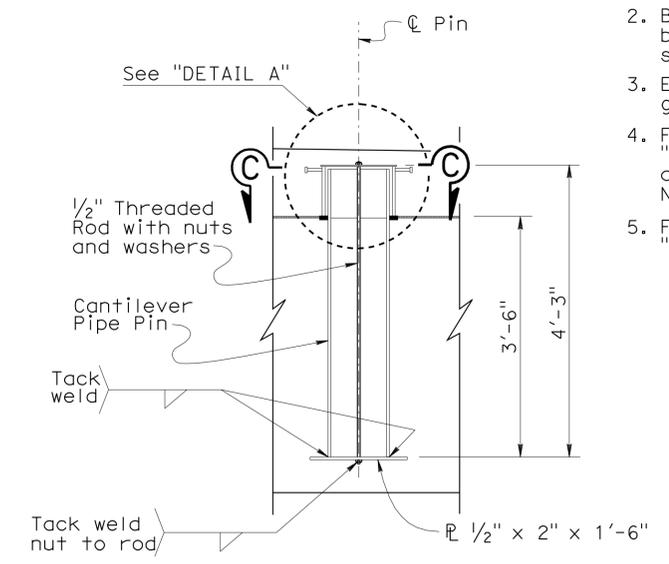
BENT 3, 4, 11, & 12

CANTILEVER PIN ASSEMBLY DETAIL
 $\frac{3}{4}'' = 1'-0''$



BENT 10

CANTILEVER PIN ASSEMBLY DETAIL
 $\frac{3}{4}'' = 1'-0''$



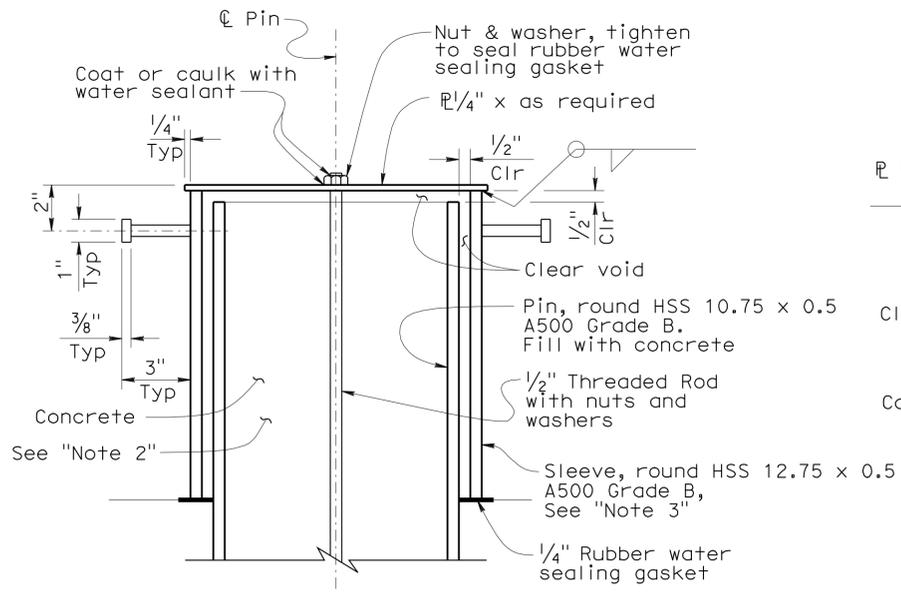
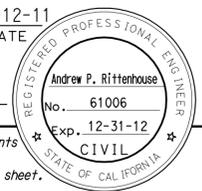
BENT 7 & 9

CANTILEVER PIN ASSEMBLY DETAIL
 $\frac{3}{4}'' = 1'-0''$

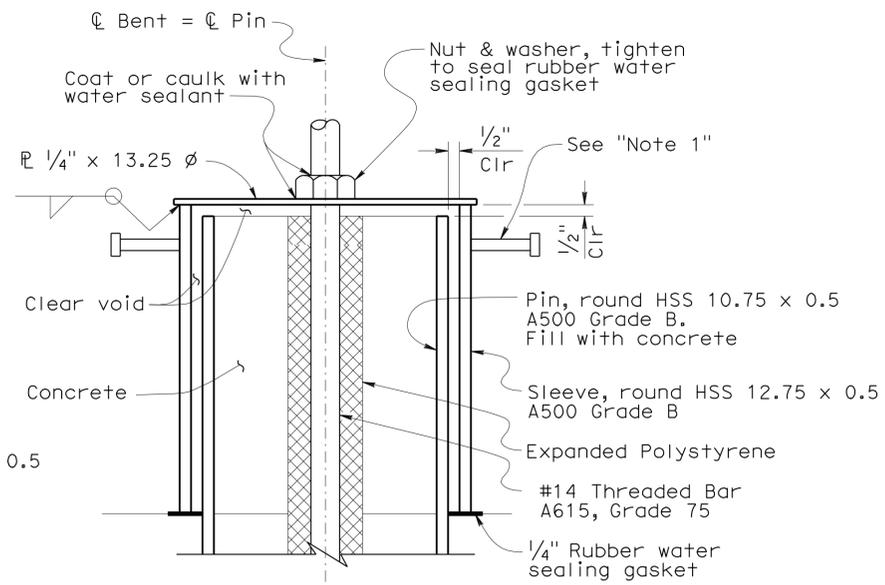
DESIGN	BY	H. Setberg	CHECKED	Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC PIN ASSEMBLY DETAILS NO. 1		
	DETAILS	BY	T. Trefz	CHECKED			Laith Bahia	POST MILE		3.97	
	QUANTITIES	BY	T. Trefz/H. Setberg	CHECKED			H. Setberg/R. Novik				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS											
0 1 2 3						CU 07 EA 215931	DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES 04-22-11 05-04-11 08-03-11 08-18-11 09-09-11 10-12-11 11-16-11 01-05-12	SHEET 87 OF 101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50

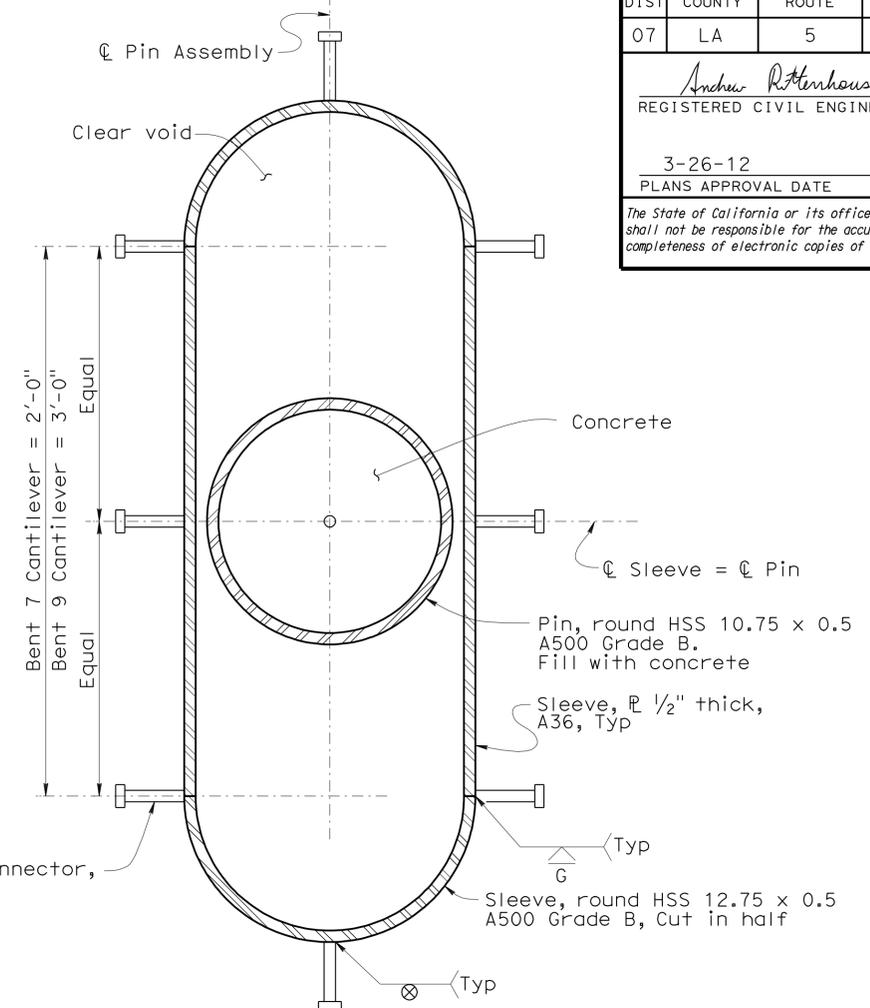
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	990	1288
<i>Andrew P. Rittenhouse</i> 12-12-11 REGISTERED CIVIL ENGINEER DATE			3-26-12 PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



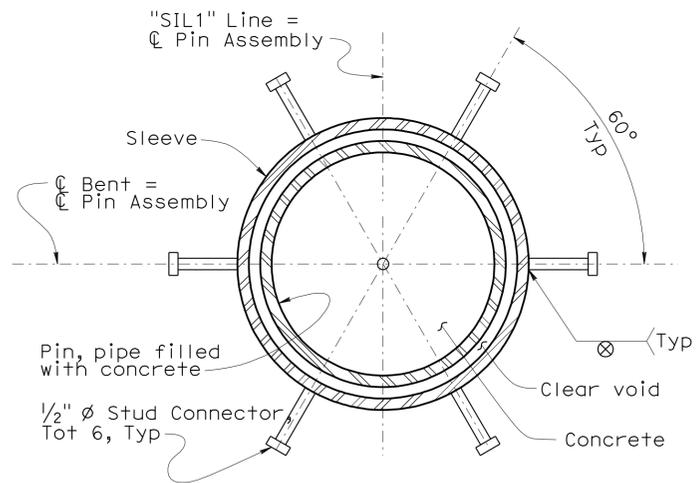
DETAIL A
3" = 1'-0"



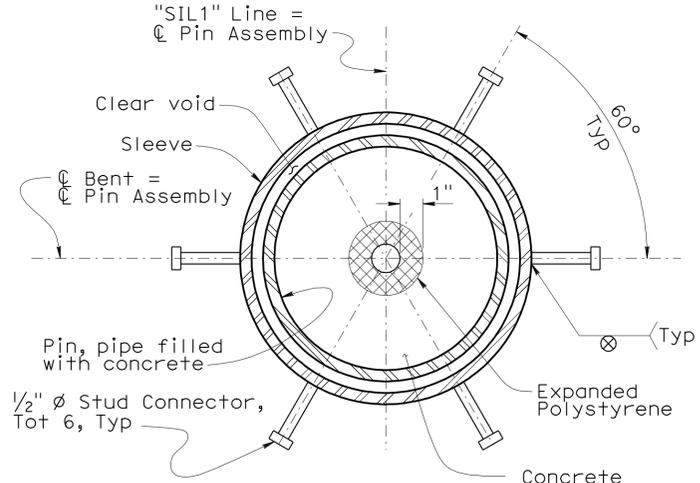
DETAIL B
3" = 1'-0"



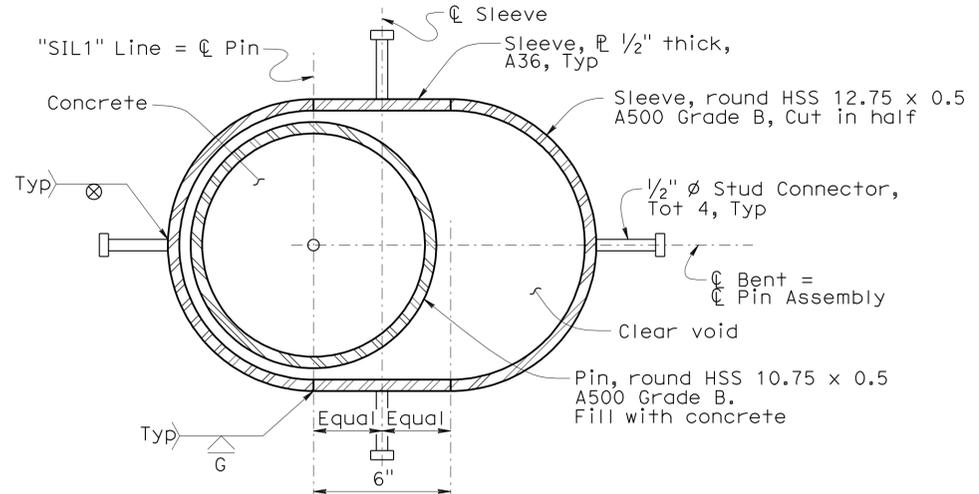
BENT 7 & 9
SECTION C-C
3" = 1'-0"



SECTION A-A
3" = 1'-0"



SECTION B-B
3" = 1'-0"



BENT 10
SECTION D-D
3" = 1'-0"

- Notes:
- See "DETAIL A" for Stud Connector information.
 - Bents 3, 4, 6, 11, & 12 shown. Bents 7, 9, & 10 similar.
 - For Bents 7 & 9 see "SECTION C-C", for Bent 10 see "SECTION D-D".
 - Entire Pin Assembly shall be galvanized after fabrication.

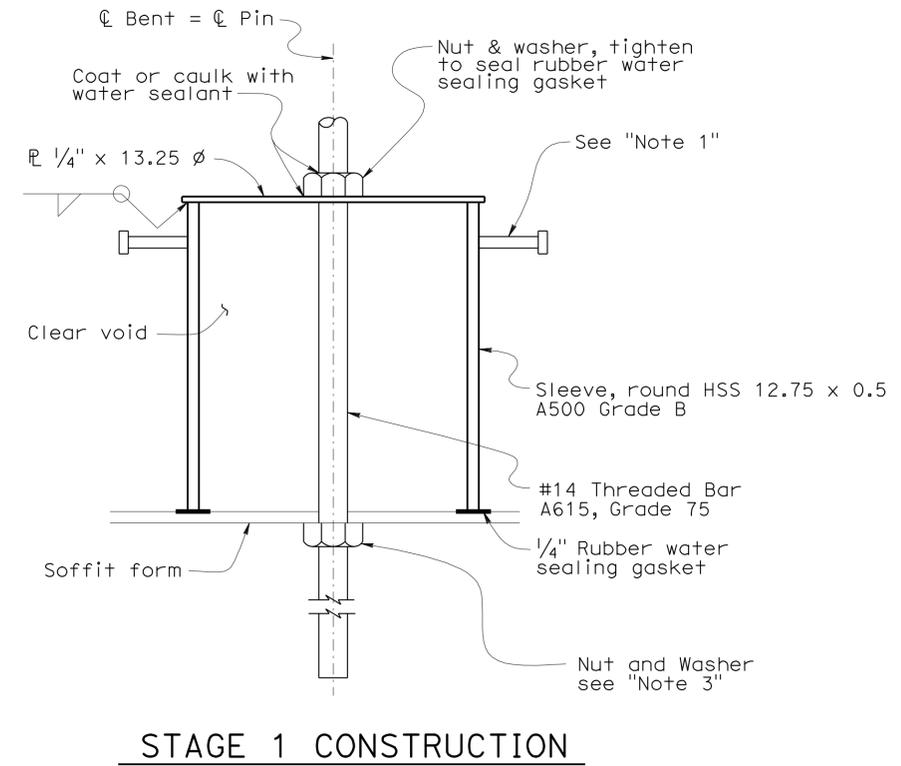
1 1/4" High Strength Bar
A722, Grade 150

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC PIN ASSEMBLY DETAILS NO. 2
	DETAILS	BY T. Trefz	CHECKED Laith Bahia			POST MILE	3.97	
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			CU 07 EA 215931	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 53-3043r-p-pin_02.dgn	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 88	OF 101

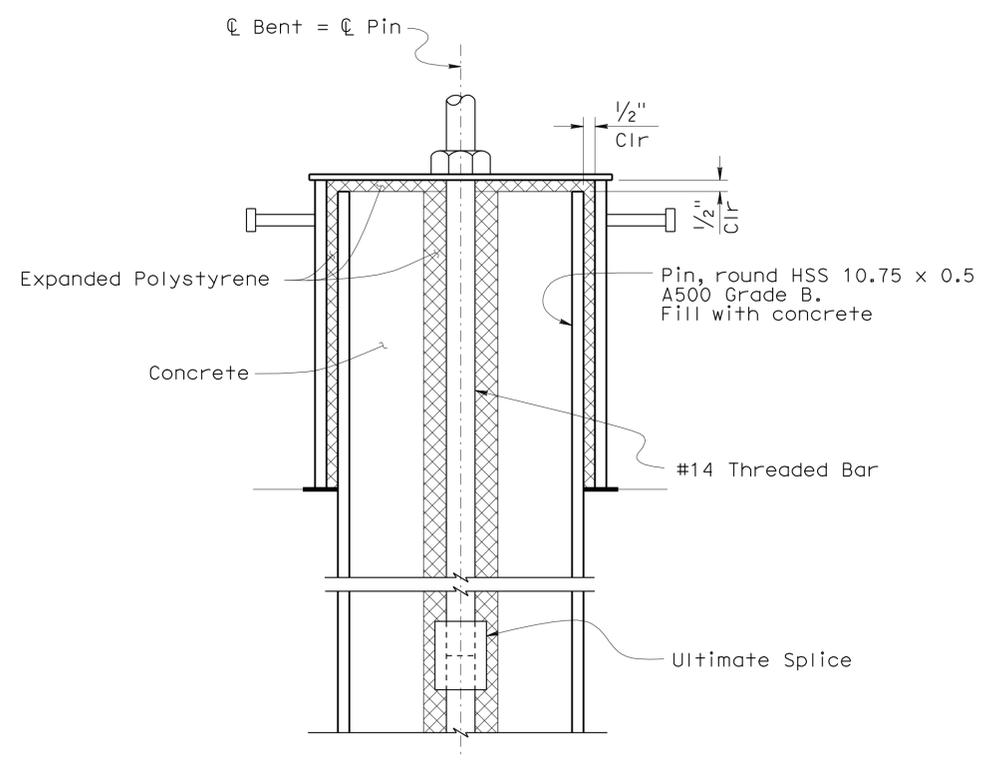
USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	991	1288

Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
 Andrew P. Rittenhouse
 No. 61006
 Exp. 12-31-12
 CIVIL
 STATE OF CALIFORNIA
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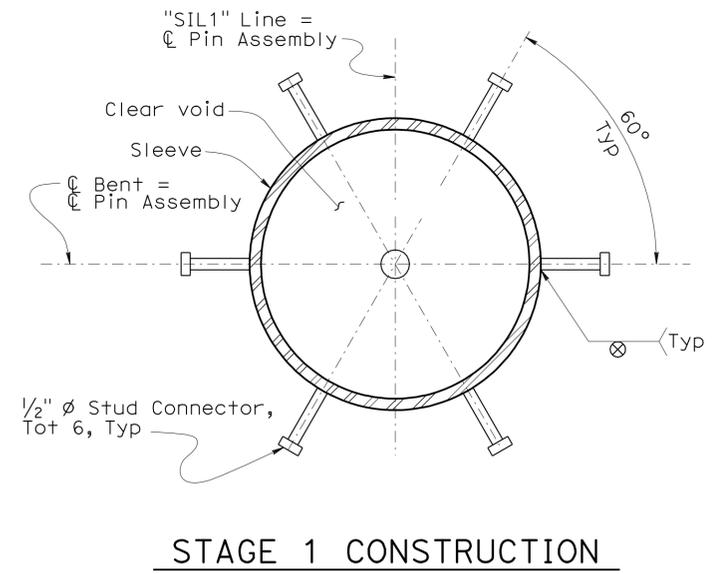


STAGE 1 CONSTRUCTION

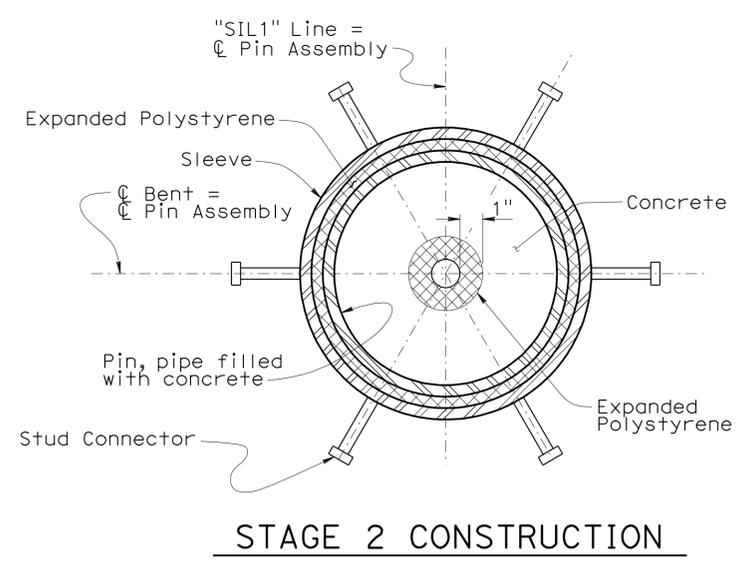


STAGE 2 CONSTRUCTION

DETAIL C
3" = 1'-0"



STAGE 1 CONSTRUCTION



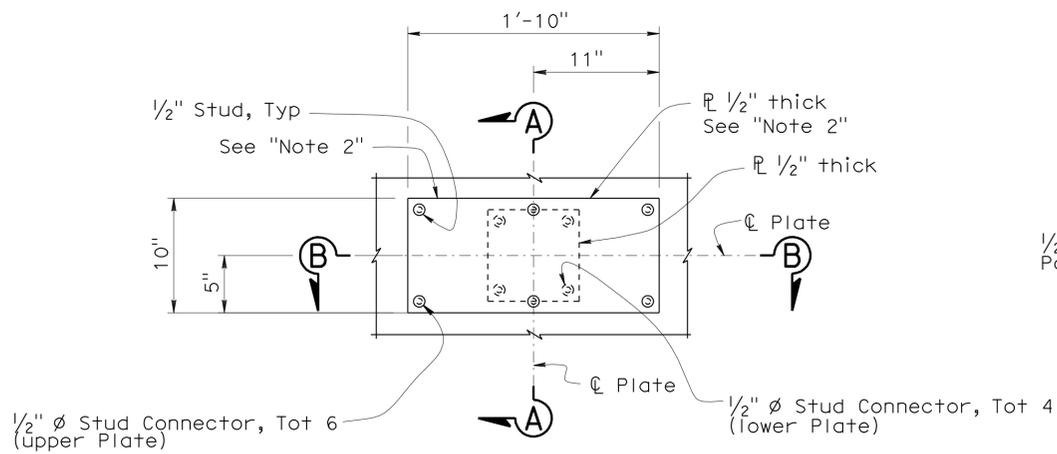
STAGE 2 CONSTRUCTION

SECTION E-E
3" = 1'-0"

- Notes:
1. See "DETAIL A" for Stud Connector information on "PIN ASSEMBLY DETAILS NO.1" sheet.
 2. Entire Pin Assembly shall be galvanized after fabrication.
 3. Nut and Washer to be removed when Stage 1 falsework is released.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	SILVERBOW AVENUE PEDESTRIAN OC											
	DETAILS	BY T. Trefz	CHECKED Laith Bahia			53-3043	PIN ASSEMBLY DETAILS NO. 3											
	QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik			POST MILE	3.97											
				CU 07 EA 215931		DISREGARD PRINTS BEARING EARLIER REVISION DATES	<table border="1"> <tr> <th colspan="5">REVISION DATES</th> </tr> <tr> <td>08-08-11</td> <td>08-17-11</td> <td>09-08-11</td> <td>10-18-11</td> <td>11-10-11</td> </tr> </table>	REVISION DATES					08-08-11	08-17-11	09-08-11	10-18-11	11-10-11	SHEET 89 OF 101
REVISION DATES																		
08-08-11	08-17-11	09-08-11	10-18-11	11-10-11														

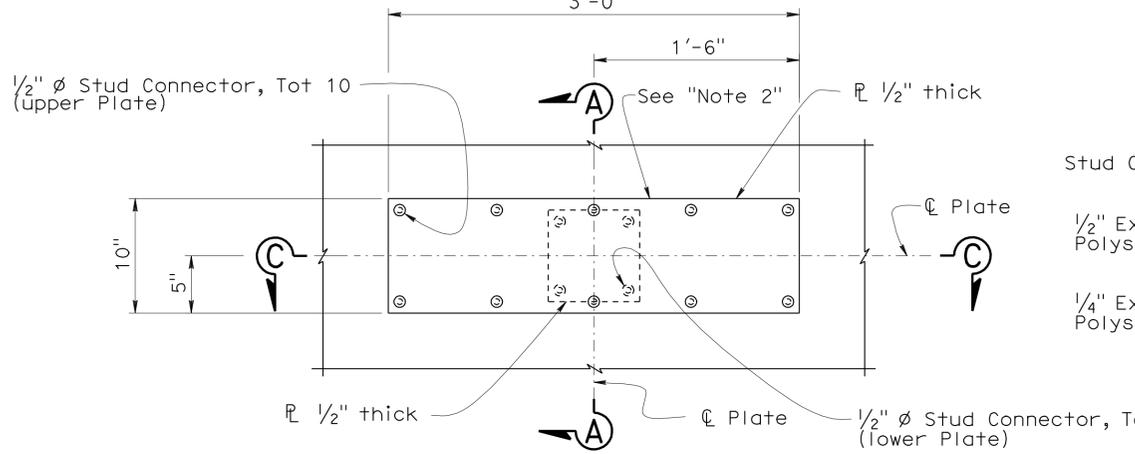
USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:50



PLAN

1/2" = 1'-0"

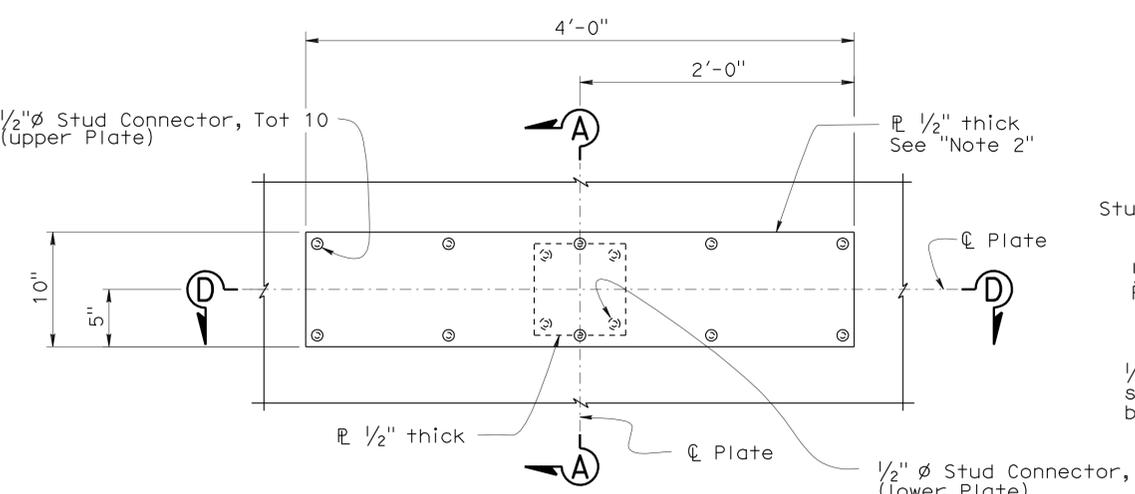
PTFE BEARING - ABUTMENTS 1 AND 14



PLAN

1/2" = 1'-0"

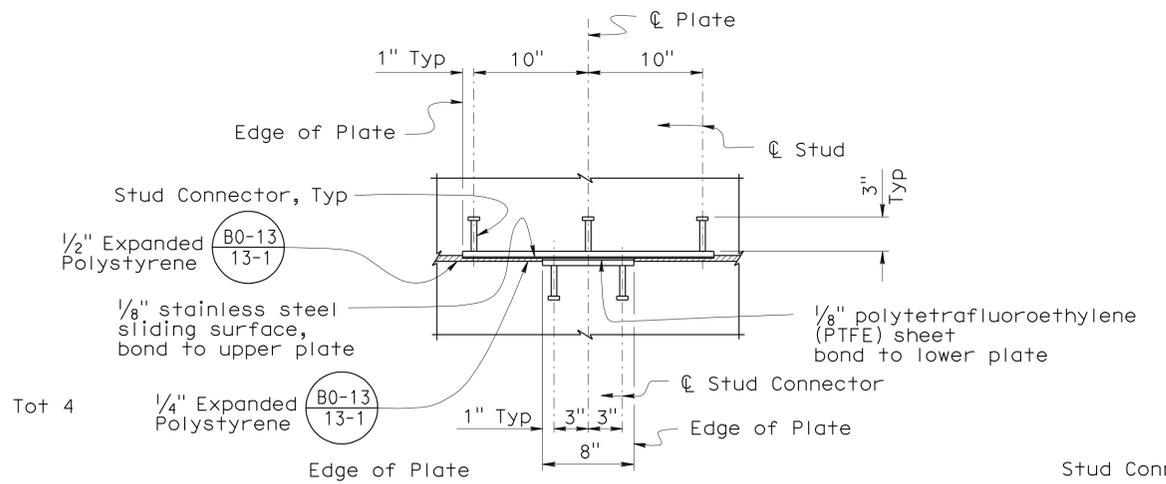
PTFE BEARING - BENT 7



PLAN

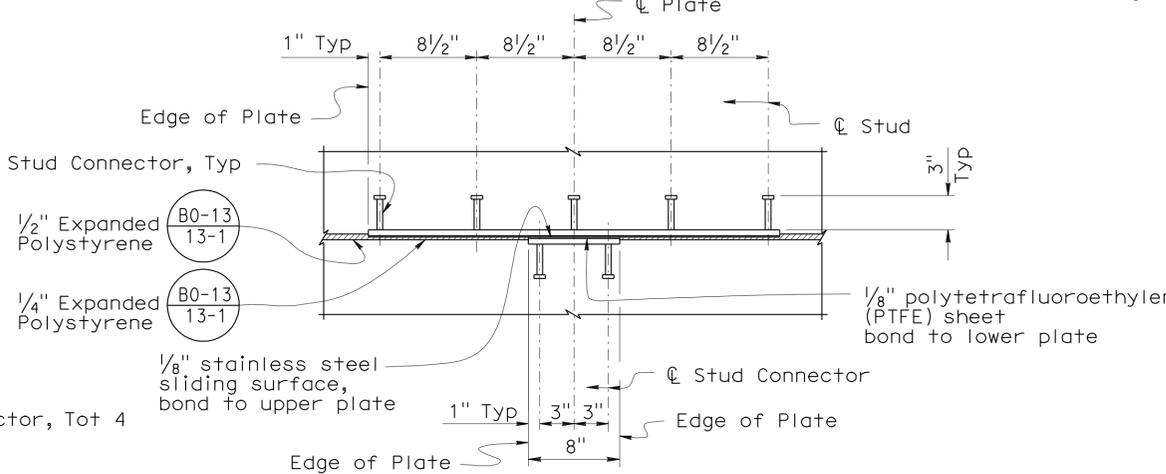
1/2" = 1'-0"

PTFE BEARING - BENT 9



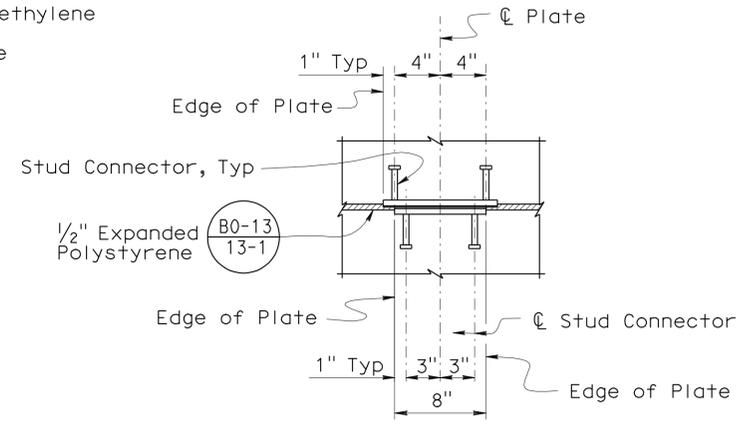
SECTION B-B

1/2" = 1'-0"



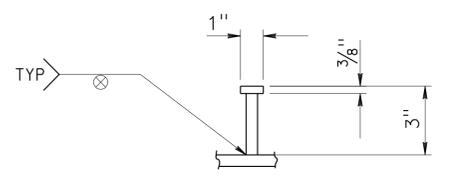
SECTION C-C

1/2" = 1'-0"



SECTION A-A

1/2" = 1'-0"



STUD CONNECTOR DETAIL

3" = 1'-0"

PTFE BEARING REACTIONS *		
Location	Min Dead Load (kip)	Min Vert Load (kip)
Abut 1	23	30
Bent 7	20	26
Bent 9	14	19
Abut 14	22	28

* Per Bearing

- Notes:
1. See "STUD CONNECTOR DETAIL"
 2. Apply 2" Duct Tape over all joints.

DESIGN	BY H. Setberg	CHECKED Laith Bahja
DETAILS	BY T. Trefz	CHECKED Laith Bahja
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

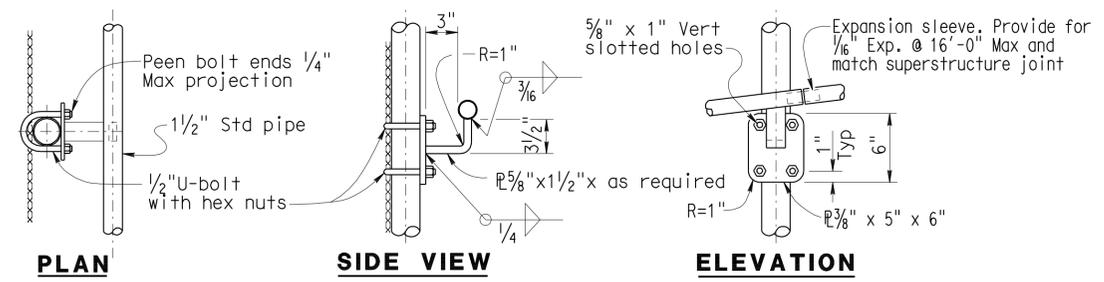
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 15

BRIDGE NO. 53-3043
POST MILE 3.97

SILVERBOW AVENUE PEDESTRIAN OC
PTFE BEARING DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	994	1288

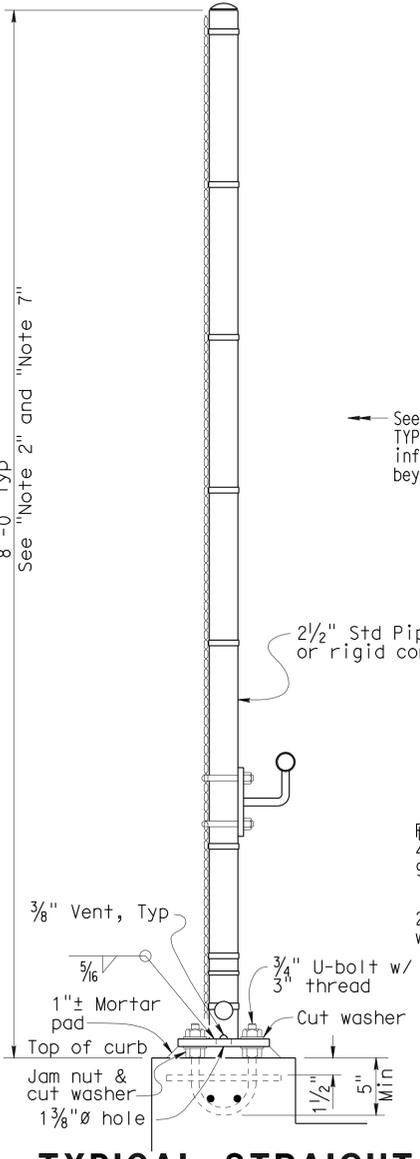
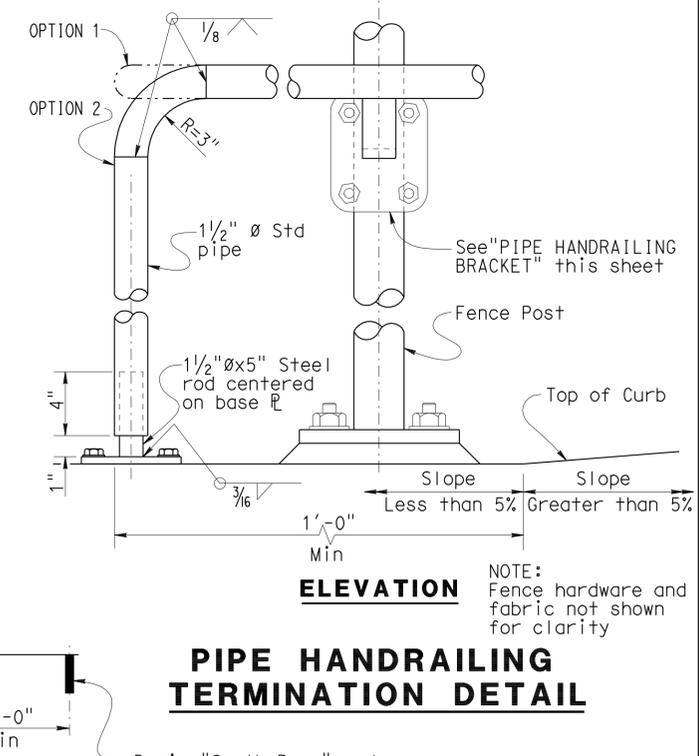
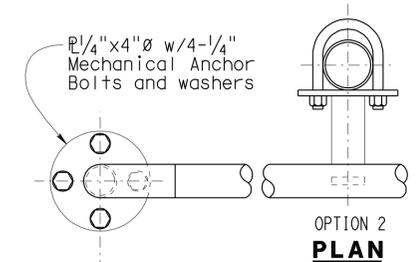
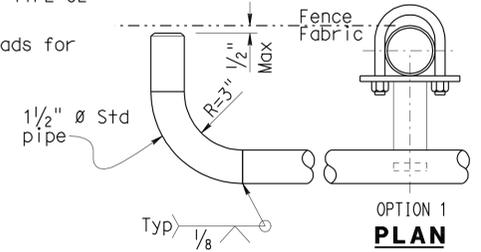
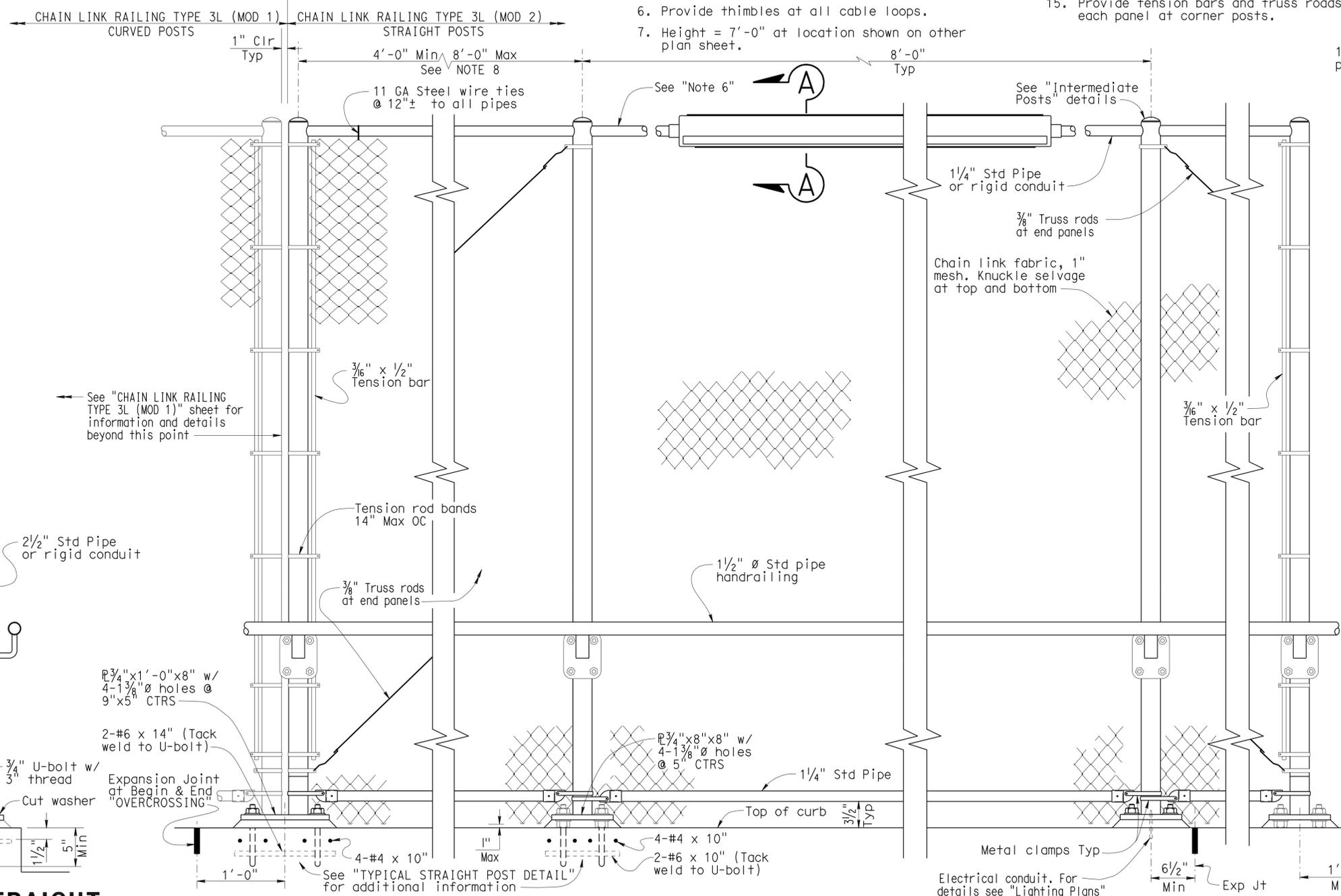
Andrew P. Rittenhouse 12-12-11
 REGISTERED CIVIL ENGINEER DATE
 3-26-12
 PLANS APPROVAL DATE
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PIPE HANDRAILING BRACKET

- NOTES:
- Railing assembly except chain link fabric to be galvanized after fabrication.
 - Railing shall conform to horizontal and vertical alignment. Post shall be vertical. Horizontal pipes shall be bent to conform to horizontal alignment if radius is 150'-0" or less.
 - When railing is placed on curved horizontal alignment with radius of 150'-0" or less, drill 1/2" x 3" deep hole in slab and set in epoxy adhesives 3/8" Ø welded eyebolt for 5/16" cable to limit the midordinate distance between the 5/16" cable and curve to be 1" Max.
 - Place fabric parallel to slope.
 - Alternative details may be submitted by the Contractor for Engineer's approval.
 - Provide thimbles at all cable loops.
 - Height = 7'-0" at location shown on other plan sheet.

- Handrail tube continuous over two or more supports.
- Peen all exposed bolts.
- Electrical details for corner post are similar to those shown. Fabric to be trimmed and crimped around handhole.
- Conduit holes in posts will vary with slope of structure.
- TS 2 x 2 x 3/16 required for curves with radius of 150'-0" or less. Bend to conform to curve.
- Conduit expansion fitting to be required at deck or wall expansion joints with movement ratings greater than 1".
- For additional information and details not shown see "CHAIN LINK RAILING TYPE 3L (MOD 1)" sheet
- Provide tension bars and truss rods for each panel at corner posts.



END POST

INTERMEDIATE POST

ELEVATION

END POST

PIPE HANDRAILING TERMINATION DETAIL

TYPICAL STRAIGHT POST DETAIL

DESIGN	BY H. Setberg	CHECKED Laith Bahia	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO.	53-3043	SILVERBOW AVENUE PEDESTRIAN OC CHAIN LINK RAILING TYPE 3L (MOD 2)
DETAILS	BY T. Trefz	CHECKED Laith Bahia		POST MILE	3.97	
QUANTITIES	BY T. Trefz/H. Setberg	CHECKED H. Setberg/R. Novik				

BENCH MARK

PRHV 119 Elev 99.46'
 FOUND PK NAIL & TIN @ NB 1-5 SHOULDER, +/-120'
 N/O SILVERBOW PEDESTRIAN OVERCROSSING
 NAVD 88

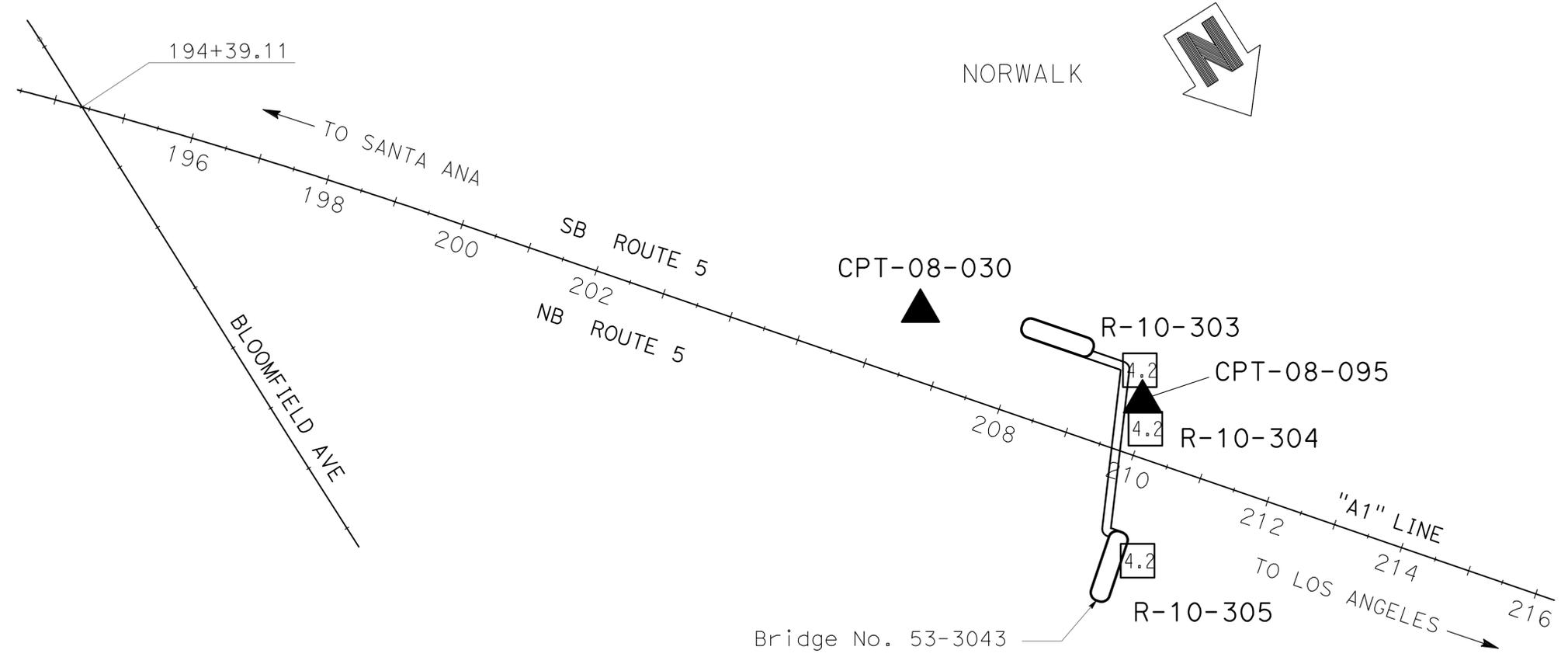
PRHV 122 Elev 99.50'
 FOUND PK NAIL & TIN @ SB 1-5 SHOULDER, +/-210'
 N/O SILVERBOW PEDESTRIAN OVERCROSSING
 NAVD 88

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.4/4.0	995	1288

<i>Michael G. Smith</i>	06/2011
GEOTECHNICAL PROFESSIONAL	DATE
3-26-12	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL G. SMITH
 No. 2229
 Exp. 3-31-2012
 GEOTECHNICAL
 STATE OF CALIFORNIA

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Notes

1. This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010) except three digit sequence number in boring identification starting with the segment number per exception request approved on April 08, 2009.
2. For protection of underground utility lines, hand-auger was used to remove top 5 to 10 feet of subsurface material for exploratory borings and cone penetration testings.

PLAN
 SCALE 1"=100'

ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15	BRIDGE NO. 53-3043 POST MILE 3.97	SILVERBOW AVENUE PEDESTRIAN OC LOG OF TEST BORINGS SHEET 1 OF 9
FUNCTIONAL SUPERVISOR NAME: M. SMITH	DRAWN BY: P. QUACH CHECKED BY: D. ORRIS	FIELD INVESTIGATION BY: P. MCDONALD/M. ISLAM					
06S CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 07 EA 215931	REVISION DATES 06/17/11
						DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET OF 93 101

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52

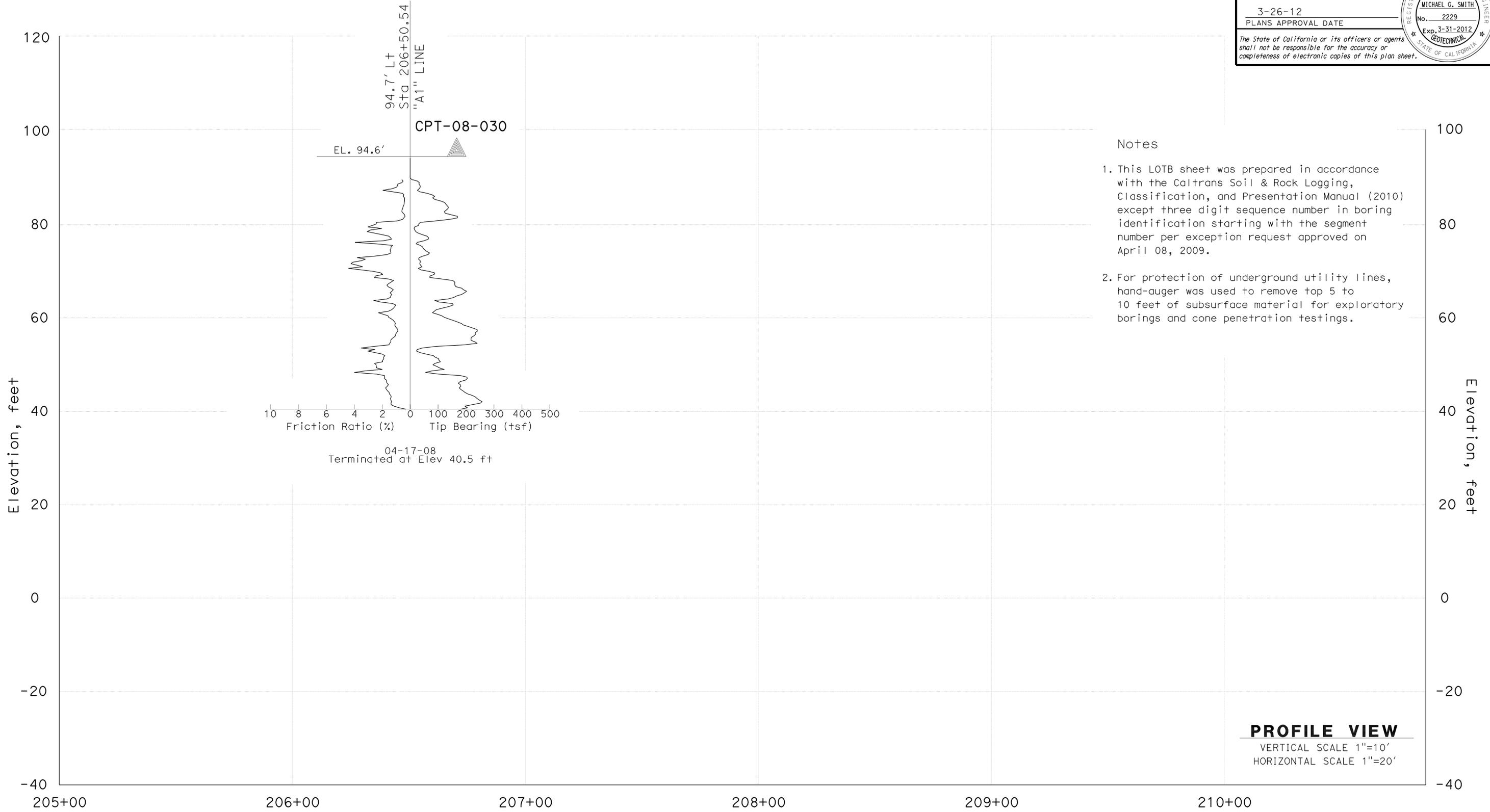
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.4/4.0	996	1288

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 9

Michael G. Smith 06/2011
 GEOTECHNICAL PROFESSIONAL DATE
 3-26-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL G. SMITH
 No. 2229
 Exp. 3-31-2012
 GEOTECHNICAL
 STATE OF CALIFORNIA

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ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15		BRIDGE NO. 53-3043	SILVERBOW AVENUE PEDESTRIAN OC	
FUNCTIONAL SUPERVISOR NAME: M. SMITH	DRAWN BY: P. QUACH	FIELD INVESTIGATION BY: P. MCDONALD/M. ISLAM						POST MILE 3.97	LOG OF TEST BORINGS SHEET 2 OF 9	
CHECKED BY: D. ORRIS										REVISION DATES
										SHEET OF 94 101

06S CIVIL LOG OF TEST BORINGS SHEET ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 07 EA 215931 DISREGARD PRINTS BEARING EARLIER REVISION DATES 06/17/11

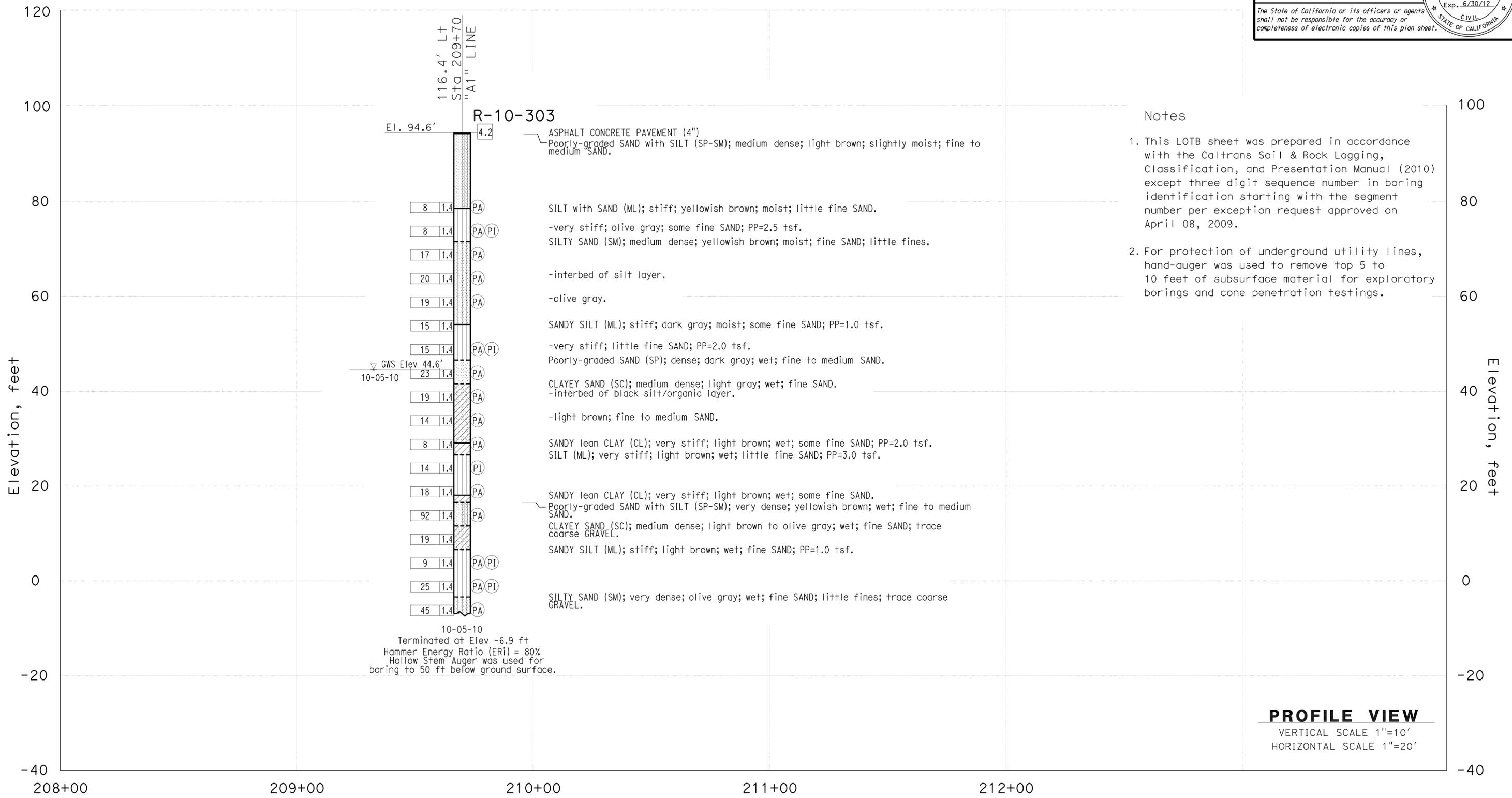
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	997	1288

REGISTERED CIVIL ENGINEER *Chungkeun Lee* DATE 06/2011
 PLANS APPROVAL DATE 3-26-12
 REGISTERED PROFESSIONAL ENGINEER
 CHUNGKEUN LEE
 No. C69450
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA
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FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 9



ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SILVERBOW AVENUE PEDESTRIAN OC	
FUNCTIONAL SUPERVISOR		DRAWN BY: P.QUACH (URS)		FIELD INVESTIGATION BY:		DEPARTMENT OF TRANSPORTATION		53-3043		LOG OF TEST BORINGS SHEET 3 OF 9	
NAME: C.LIU		CHECKED BY: C.HARRIS		M.ISLAM		DESIGN BRANCH 15		POST MILE			
								3.97			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 07 EA 215931		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
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DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52 USERNAME => s124496

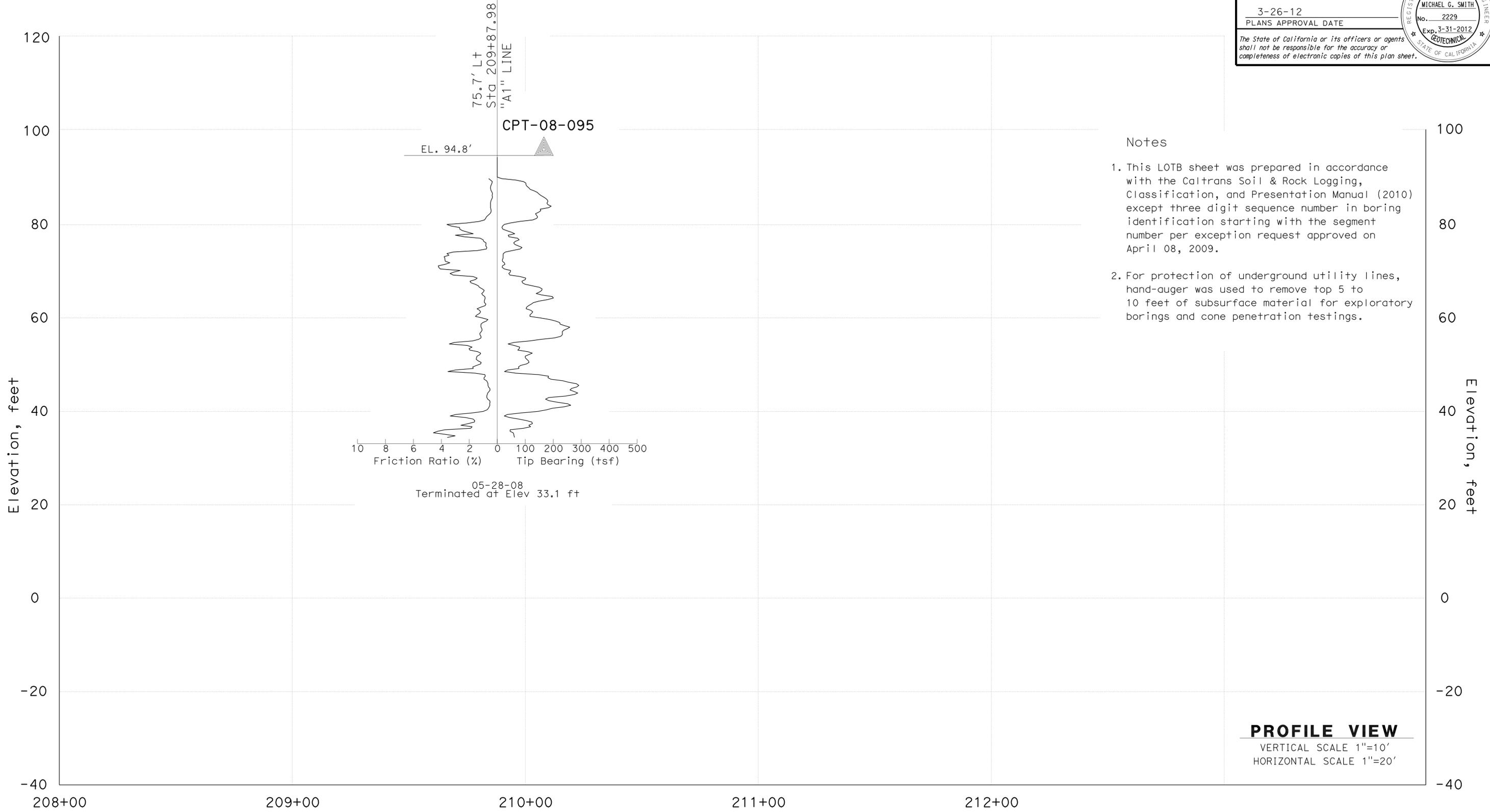
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.4/4.0	998	1288

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 9

Michael G. Smith 06/2011
 GEOTECHNICAL PROFESSIONAL DATE
 3-26-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MICHAEL G. SMITH
 No. 2229
 Exp. 3-31-2012
 GEOTECHNICAL
 STATE OF CALIFORNIA

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ENGINEERING SERVICES		MATERIALS AND GEOTECHNICAL SERVICES		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 15		BRIDGE NO. 53-3043	SILVERBOW AVENUE PEDESTRIAN OC	
FUNCTIONAL SUPERVISOR NAME: M. SMITH	DRAWN BY: P. QUACH CHECKED BY: D. ORRIS	FIELD INVESTIGATION BY: P. MCDONALD/M. ISLAM						POST MILE 3.97	LOG OF TEST BORINGS SHEET 4 OF 9	
06S CIVIL LOG OF TEST BORINGS SHEET				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 07 EA 215931		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 06/17/11
								SHEET 96 OF 101		

USERNAME => s124496 DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52
 FILE => 53-3043-z-1otb04.dgn

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS" 1 OF 9

Notes

1. This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, and Presentation Manual (2010) except three digit sequence number in boring identification starting with the segment number per exception request approved on April 08, 2009.
2. For protection of underground utility lines, hand-auger was used to remove top 5 to 10 feet of subsurface material for exploratory borings and cone penetration testings.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	2.4/4.0	999	1288

<i>Chungkeun Lee</i>		06/2011
REGISTERED CIVIL ENGINEER	DATE	
3-26-12		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER
CHUNGKEUN LEE
No. C69450
Exp. 6/30/12
CIVIL
STATE OF CALIFORNIA

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PROFILE VIEW
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=20'

ENGINEERING SERVICES		GEOTECHNICAL SERVICES		STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		SILVERBOW AVENUE PEDESTRIAN OC	
FUNCTIONAL SUPERVISOR		DRAWN BY: P.QUACH (URS)		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		53-3043		LOG OF TEST BORINGS SHEET 5 OF 9	
NAME: C.LIU		CHECKED BY: C.HARRIS		M. ISLAM		DESIGN BRANCH 15		POST MILE			
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU 07		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES	
						EA 215931		06/17/11		SHEET 97 OF 101	

DATE PLOTTED => 28-MAR-2012 TIME PLOTTED => 10:52 USERNAME => s124496

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	2.4/4.0	1000	1288

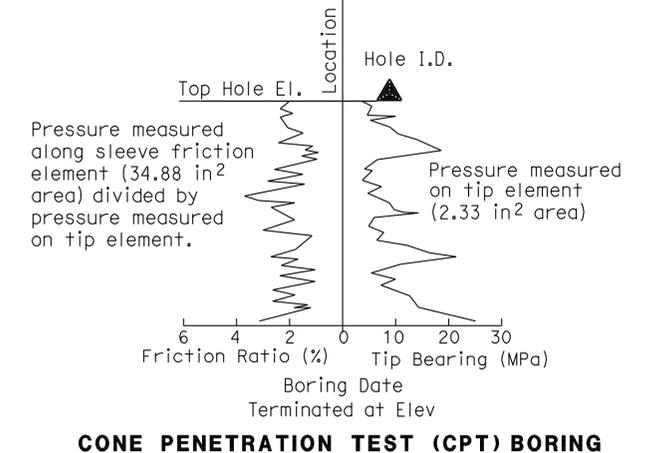
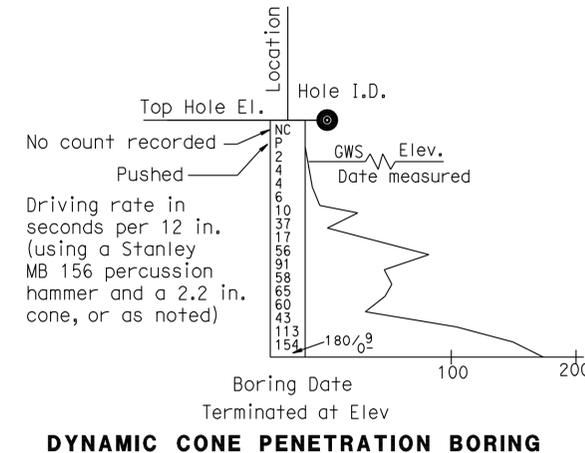
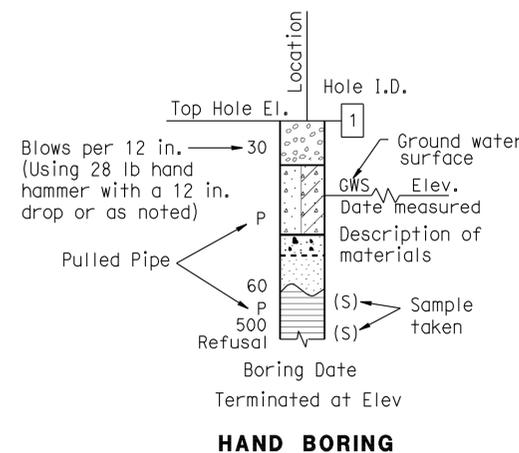
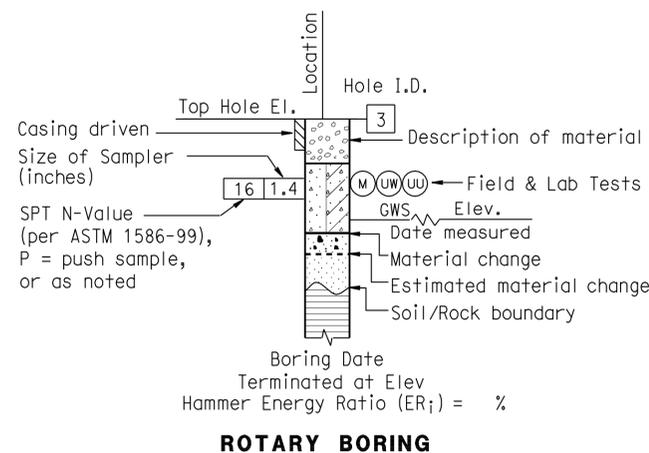
06/2011 DATE
 GEOTECHNICAL PROFESSIONAL
 3-26-12 PLANS APPROVAL DATE
 MICHAEL G. SMITH
 No. 2229
 Exp. 3-31-2012
 REGISTERED PROFESSIONAL ENGINEER
 GEOTECHNICAL
 STATE OF CALIFORNIA
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CEMENTATION	
Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

BOREHOLE IDENTIFICATION		
Symbol	Hole Type	Description
	A	Auger Boring (hollow or solid stem bucket)
	R	Rotary drilled boring (conventional)
	RW	Rotary drilled with self-casing wire-line
	RC	Rotary core with continuously-sampled, self-casing wire-line
	P	Rotary percussion boring (air)
	R	Rotary drilled diamond core
	HD	Hand driven (1-inch soil tube)
	HA	Hand Auger
	D	Dynamic Cone Penetration Boring
	CPT	Cone Penetration Test (ASTM D 5778)
	O	Other (note on LOTB)

Note: Size in inches.

CONSISTENCY OF COHESIVE SOILS				
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



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FUNCTIONAL SUPERVISOR		DRAWN BY: P.QUACH		DEPARTMENT OF TRANSPORTATION		STRUCTURE DESIGN		53-3043		LOG OF TEST BORINGS SHEET 6 OF 9	
NAME: M. SMITH		CHECKED BY: D.ORRIS		FIELD INVESTIGATION BY: P.MCDONALD/M.ISLAM		DESIGN BRANCH 15		POST MILE 3.97		REVISION DATES	
06S CIVIL LOG OF TEST BORINGS SHEET		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 07 EA 215931		FILE => 53-3043-z-1otb06.dgn		DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 98 OF 101	