

INDEX OF PLANS

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2	CONSTRUCTION AREA SIGNS
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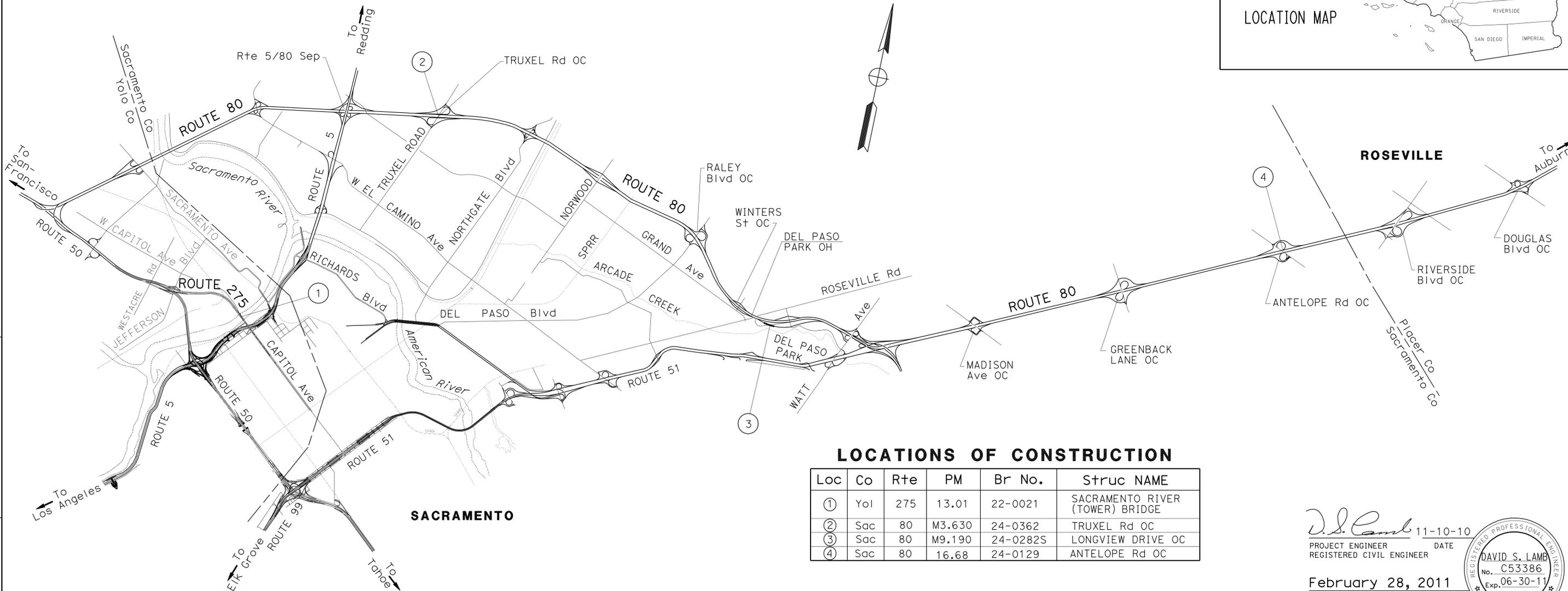
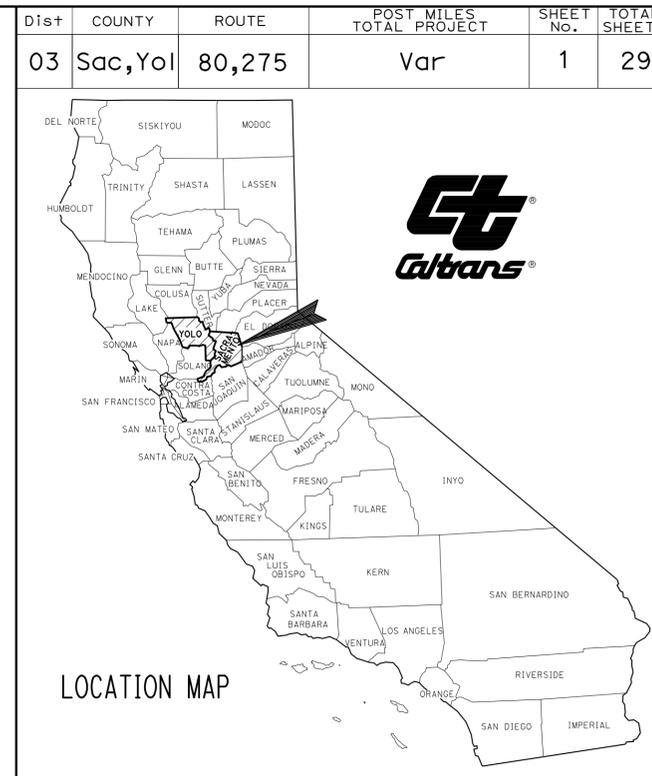
STRUCTURE PLANS

8-10	ROUTE 80 BRIDGES (TREAT DECK) Br No. Var
11-12	TOWER BRIDGE (ELECTRICAL) Br No. 22-0021
13-14	TOWER BRIDGE (MECHANICAL) Br No. 22-0021
15-29	TOWER BRIDGE CATWALK ADDITION

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN SACRAMENTO AND YOLO COUNTIES**  
**AT VARIOUS LOCATIONS**

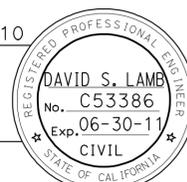
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



**LOCATIONS OF CONSTRUCTION**

Loc	Co	Rte	PM	Br No.	Struc NAME
①	Yolo	275	13.01	22-0021	SACRAMENTO RIVER (TOWER) BRIDGE
②	Sac	80	M3.630	24-0362	TRUXEL Rd OC
③	Sac	80	M9.190	24-0282S	LONGVIEW DRIVE OC
④	Sac	80	16.68	24-0129	ANTELOPE Rd OC

11-10-10  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER  
**February 28, 2011**  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



PROJECT MANAGER  
**NAJED DAKAK**  
 DESIGN ENGINEER  
**BRIAN TOEPFER**

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

NO SCALE

**NOTES:**

1. SIGN C TO BE INSTALLED VIA SSBM TO EXISTING LUMINARES.
2. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

**LEGEND:**

- (X) CONSTRUCTION AREA SIGN LETTER
- ↑ SIGN - SINGLE POST

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac, Yol	80, 275	Var	2	29

*D.S. Lamb* 11-10-10  
 REGISTERED CIVIL ENGINEER DATE

2-28-11  
 PLANS APPROVAL DATE

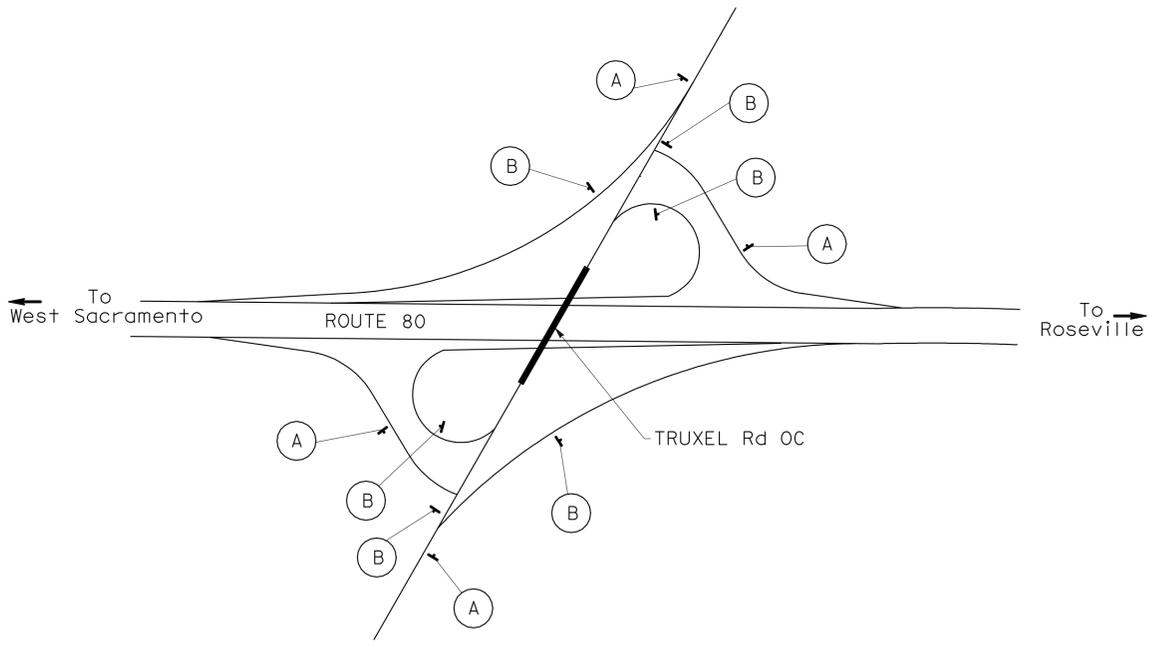
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**DAVID S. LAMB**  
 No. C53386  
 Exp. 06-30-11  
 CIVIL  
 STATE OF CALIFORNIA

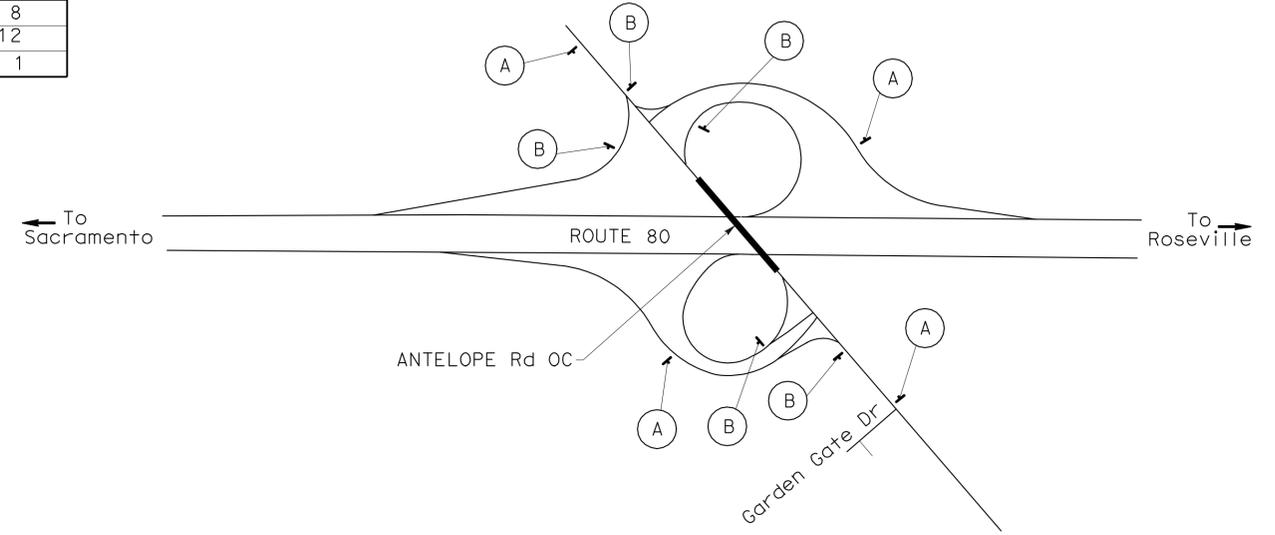


**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

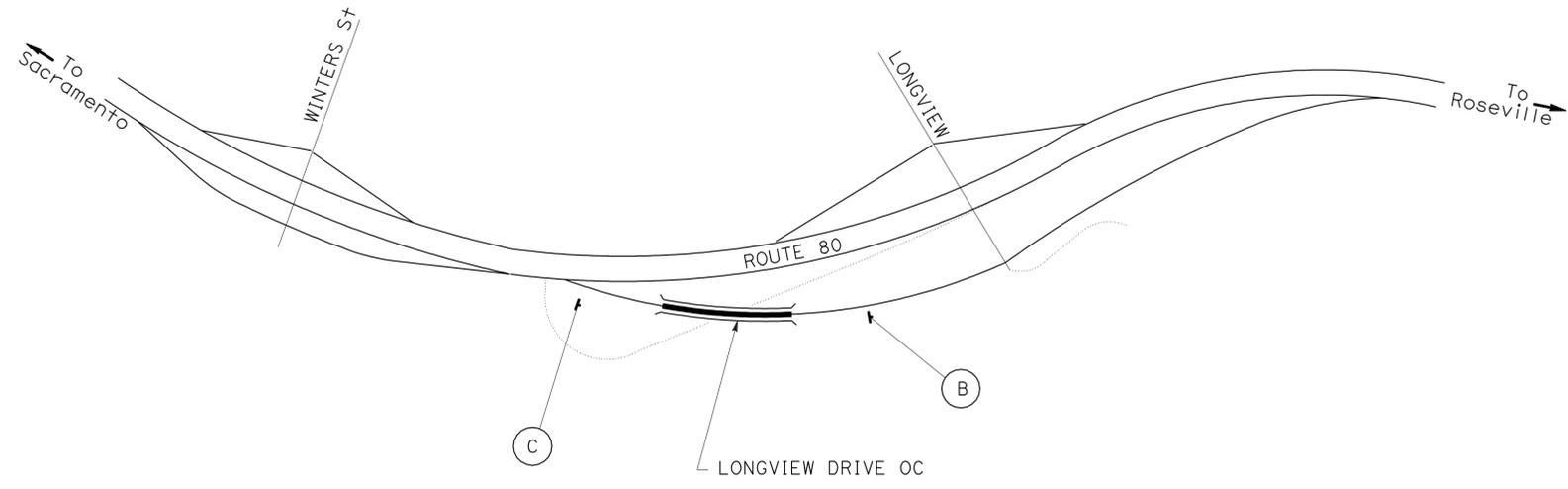
SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	48" X 48"	ROAD WORK AHEAD	1 - 6" X 6"	8
(B)		C14	48" X 24"	END ROAD WORK	1 - 4" X 6"	12
(C)		C23	48" X 48"	RAMP WORK AHEAD	SSBM	1



**LOCATION 2**



**LOCATION 4**



**LOCATION 3**

**CONSTRUCTION AREA SIGNS**

NO SCALE

**CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE  
 Caltrans®  
 FUNCTIONAL SUPERVISOR: BRIAN TOEPPER  
 CALCULATED/DESIGNED BY: JOHN KEBER  
 REVISIONS: 00-00-00 DATE PLOTTED => 28-FEB-2011 TIME PLOTTED => 14:45



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	3	29

Jeffrey S. Jewett 11-10-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-28-11  
 PLANS APPROVAL DATE

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

### REMOVE THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKING

Loc No.	STRUCTURE NAME	Br No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)		REMOVE THERMOPLASTIC PAVEMENT MARKING		
			DETAIL NUMBER				DETAIL NUMBER		ARROW TYPE	ARROW TYPE	"FWY" MARKING
			27B	9	37B	38	24	27	I(18')	IV(R)	SQFT
2	TRUXEL Rd OC	24-0362	263	1,052	46	30	526				
3	LONGVIEW DRIVE OC	24-0282S	462					924			
4	ANTELOPE Rd OC	24-0129							50	60	16
SUB-TOTAL			725	1,052	46	30	526	924	50	60	16
TOTAL			1,853				1450		126		

### TRAFFIC STRIPE, PAVEMENT MARKER AND PAVEMENT MARKING

Loc No.	STRUCTURE NAME	Br No.	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)			4" THERMOPLASTIC TRAFFIC STRIPE			8" THERMOPLASTIC TRAFFIC STRIPE			PAVEMENT MARKER (RETROREFLECTIVE)				THERMOPLASTIC PAVEMENT MARKING			
			DETAIL NUMBER			DETAIL NUMBER			DETAIL NUMBER			TYPE G (EA)		TYPE H (EA)		ARROW TYPE		"FWY" MARKING	"ONLY" MARKING
			9	LF		25	27	27B	38	LF		DET 9	DET 38	DET 25	DET 27	IV(R)	I(18')	SQFT	SQFT
2	TRUXEL Rd OC	24-0362	1,052			526			526			23	24	12					
3	LONGVIEW DRIVE OC	24-0282S	318				924	462				7			20				
4	ANTELOPE Rd OC	24-0129	774			774		774	1,097			18	46	17		60	50	32	44
SUB-TOTAL						1,300	924	1,762				118		49		60	50	32	44
TOTAL			2,144			3,986			1,623			167				186			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 FUNCTIONAL SUPERVISOR: JOSEPH W. HORTON  
 JEFFREY S. JEWETT  
 SHAHRAM RAISI  
 REVISIONS: REVISION BY DATE REVISION BY DATE  
 CALCULATED/DESIGNED BY: CHECKED BY:

## PAVEMENT DELINEATION QUANTITIES PDQ-1

LAST REVISION: DATE PLOTTED => 28-FEB-2011    TIME PLOTTED => 10:58

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yoi	80,275	Var	4	29

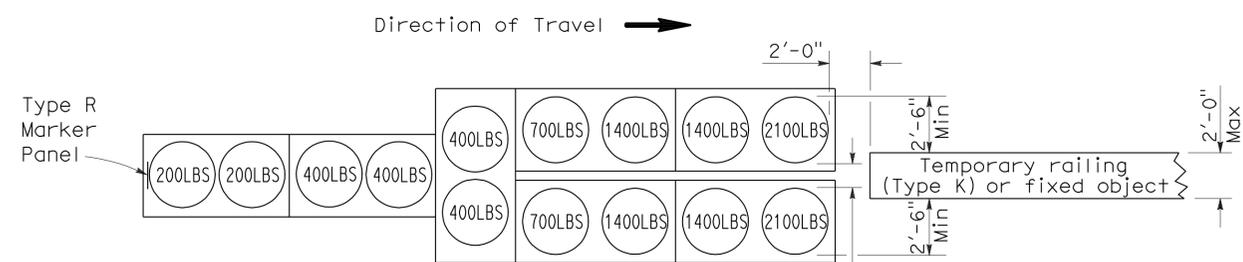
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

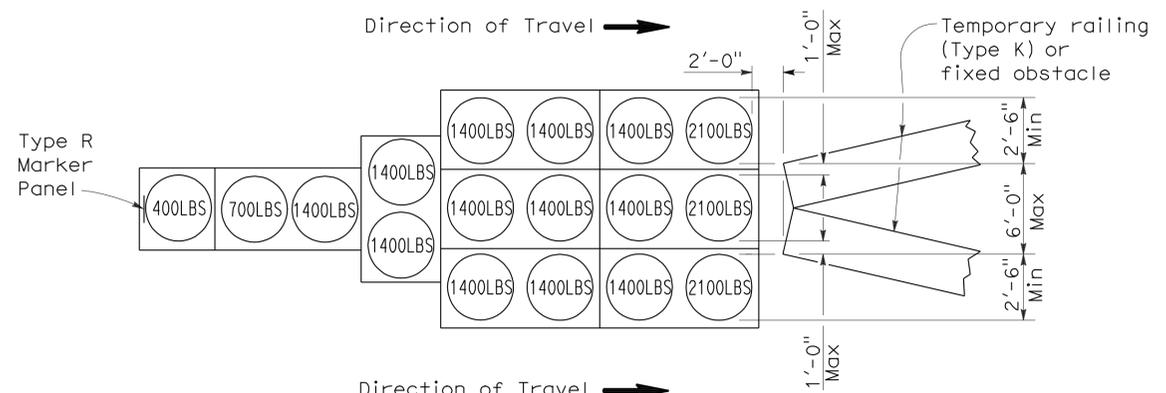
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2-28-11



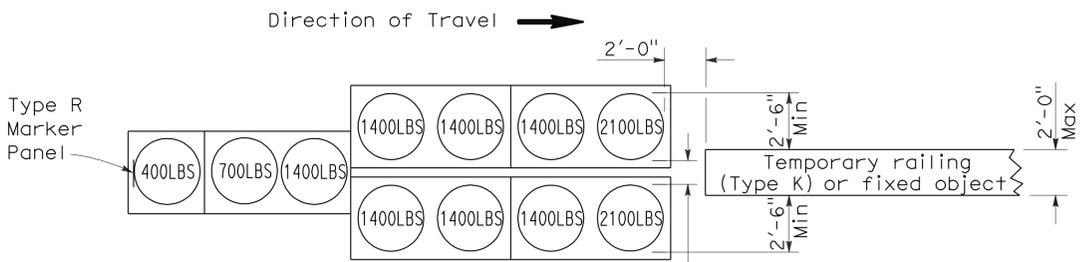
**ARRAY 'TU14'**

Approach speed 45 mph or more



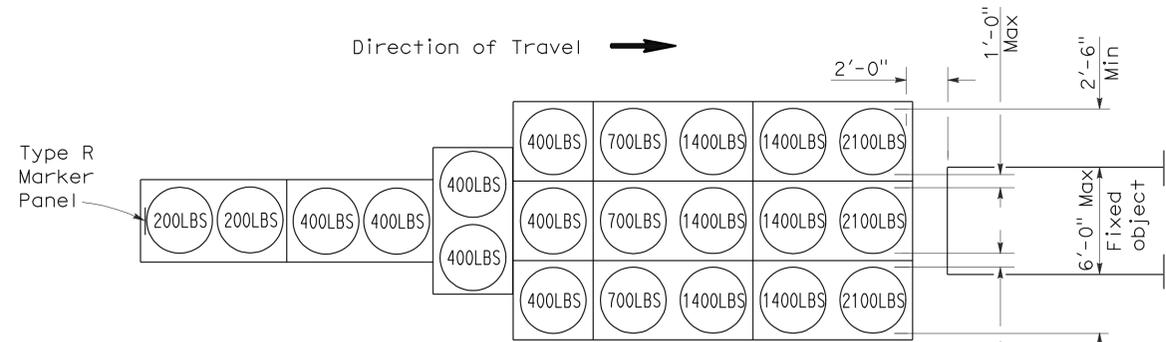
**ARRAY 'TU17'**

Approach speed less than 45 mph



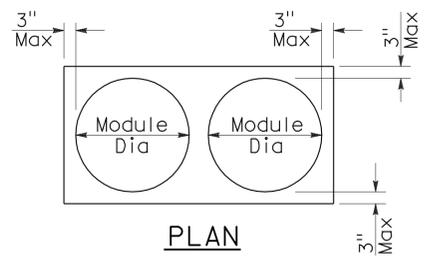
**ARRAY 'TU11'**

Approach speed less than 45 mph

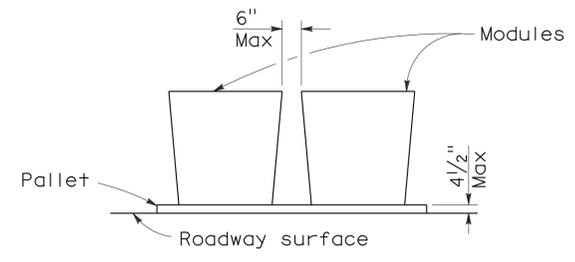


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

2006 REVISED STANDARD PLAN RSP T1A

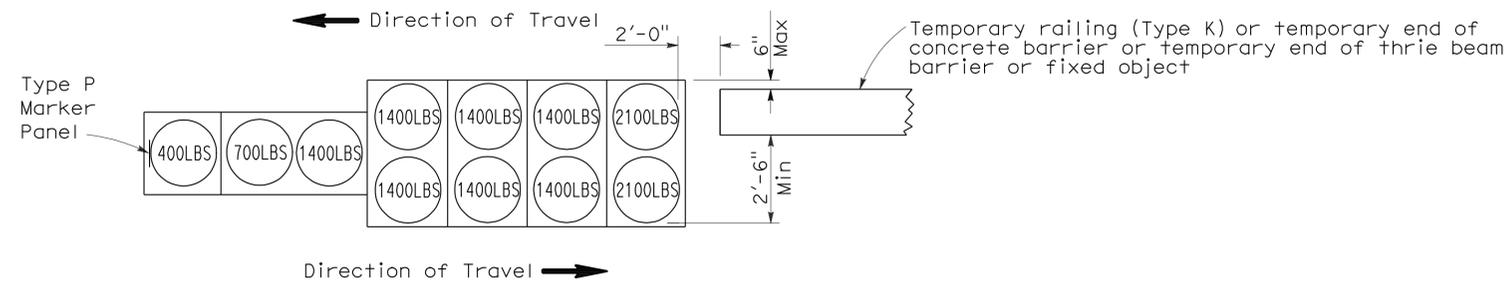
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	5	29

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

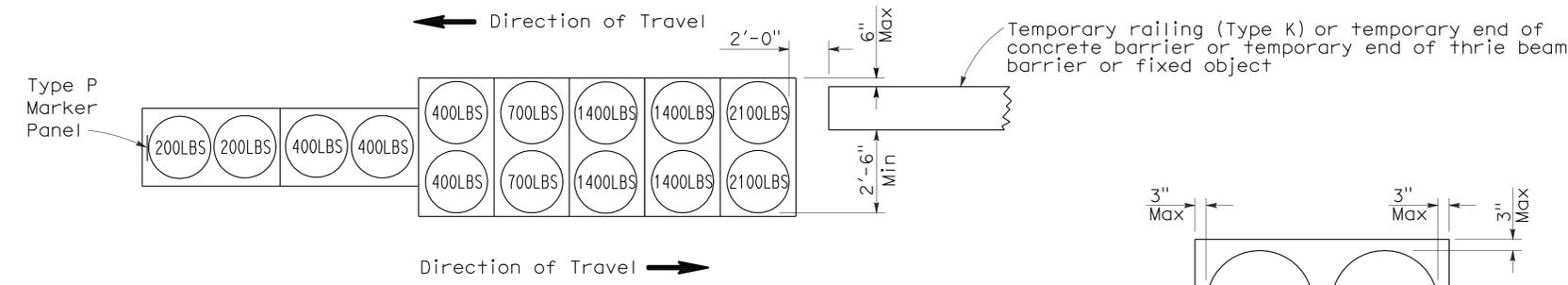
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

To accompany plans dated 2-28-11



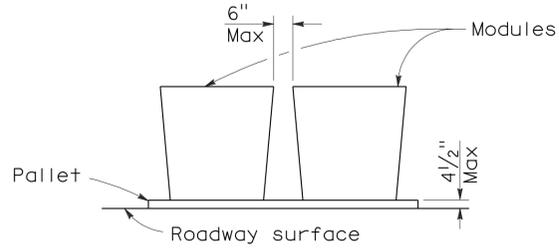
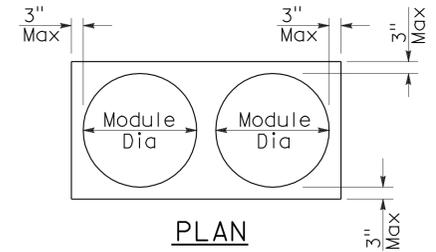
**ARRAY 'TB11'**

Approach speed less than 45 mph



**ARRAY 'TB14'**

Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE  
RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yoi	80,275	Var	6	29

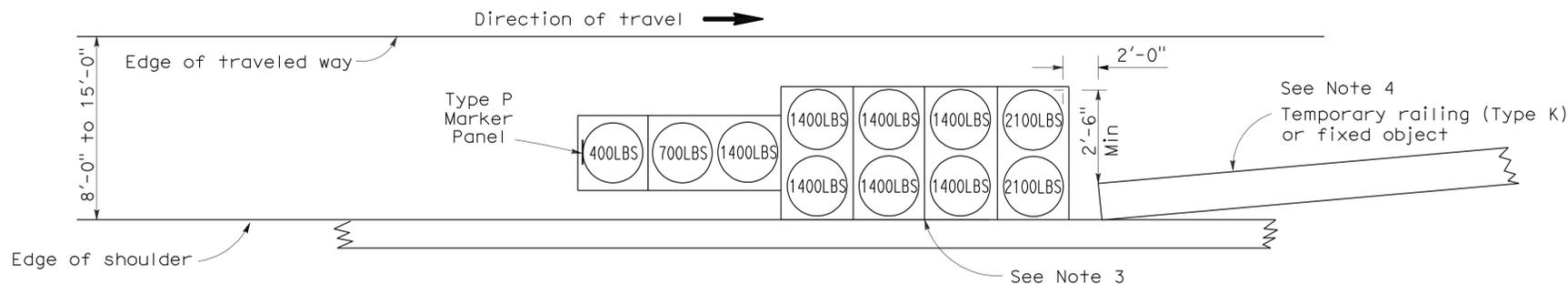
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

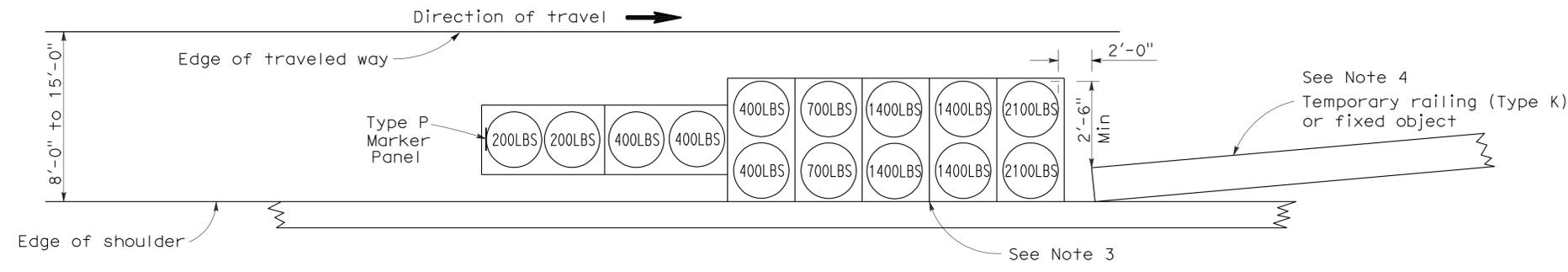
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

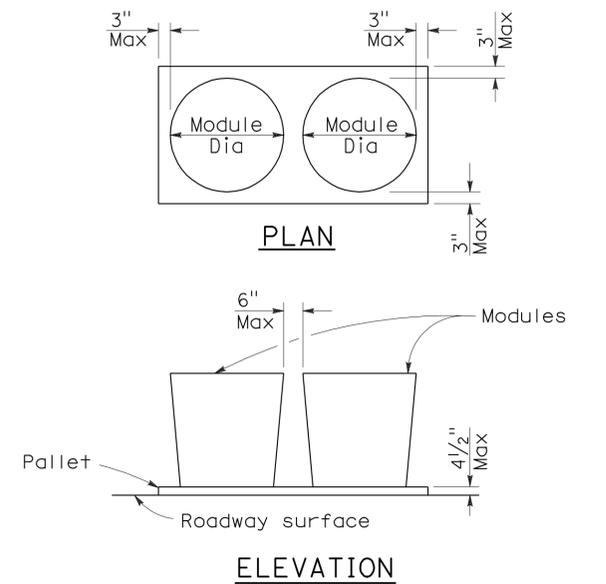
To accompany plans dated 2-28-11



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- ⊙XXX Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

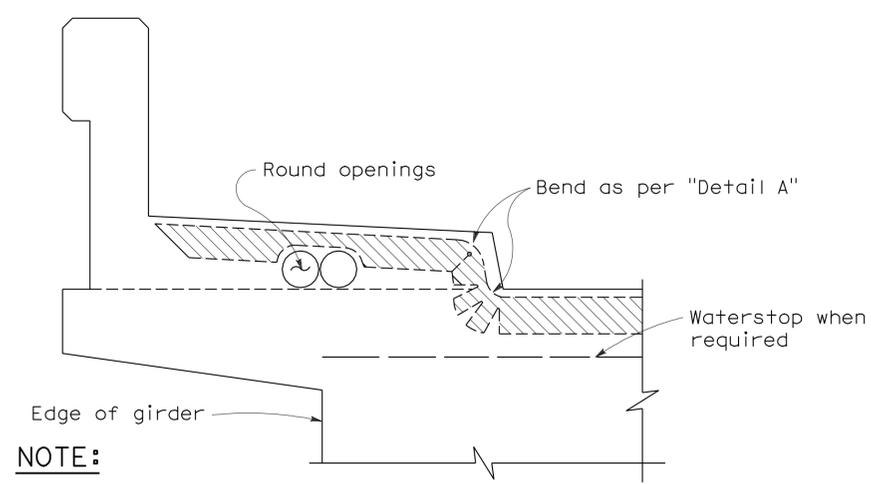
STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE  
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

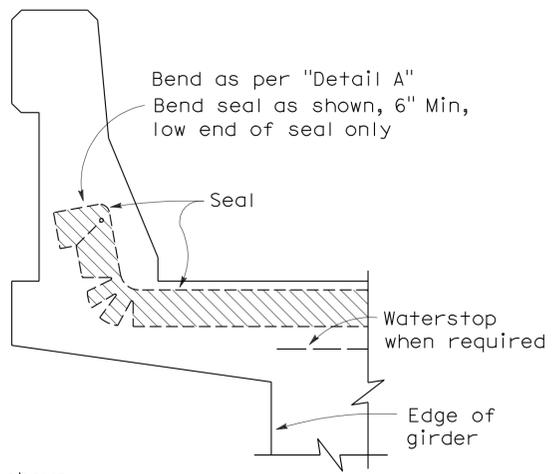
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

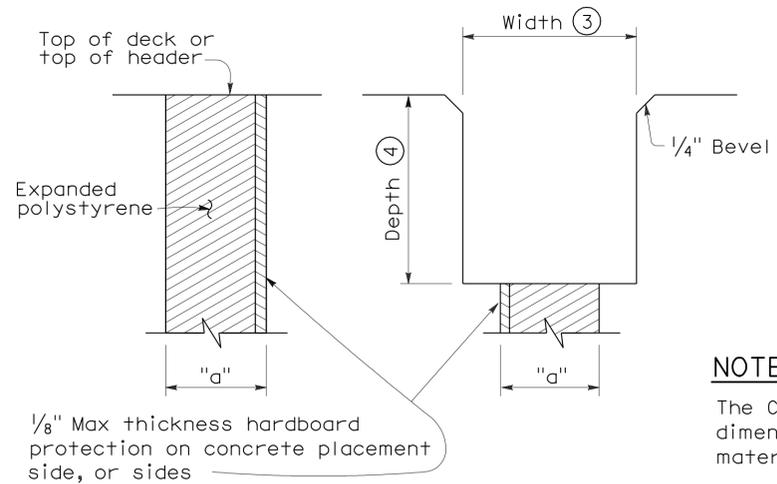


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



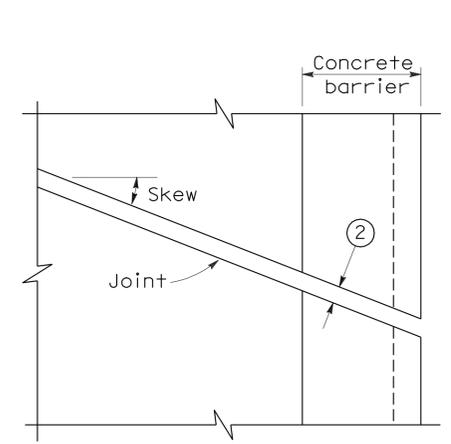
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

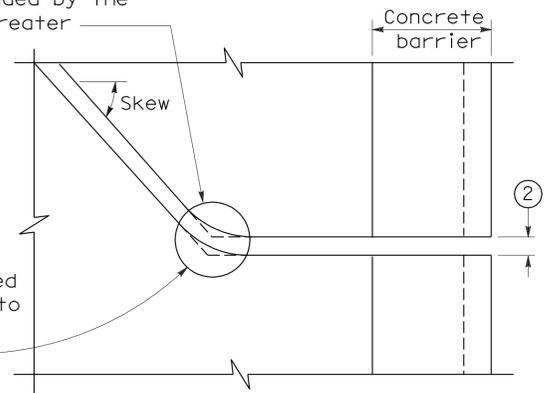
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



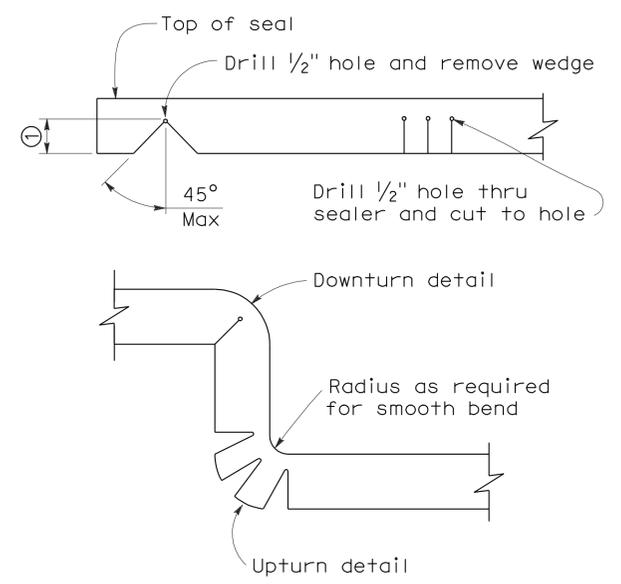
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



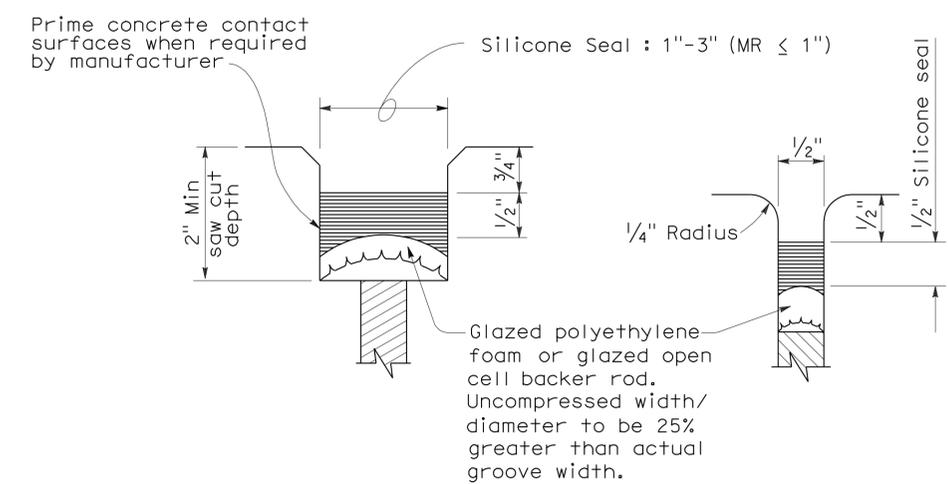
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.

**DIMENSIONS "a" OF JOINT REQUIRED**

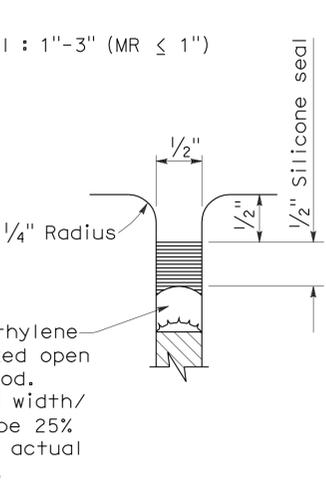
Movement Rating (MR) (5)	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE



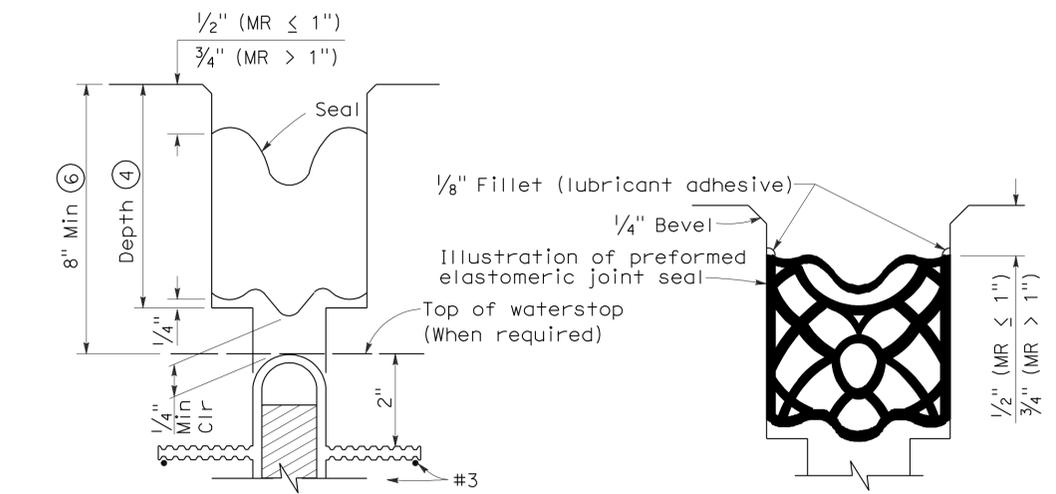
**TYPE A SEAL**

Movement rating : Silicone = 1" Max



**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

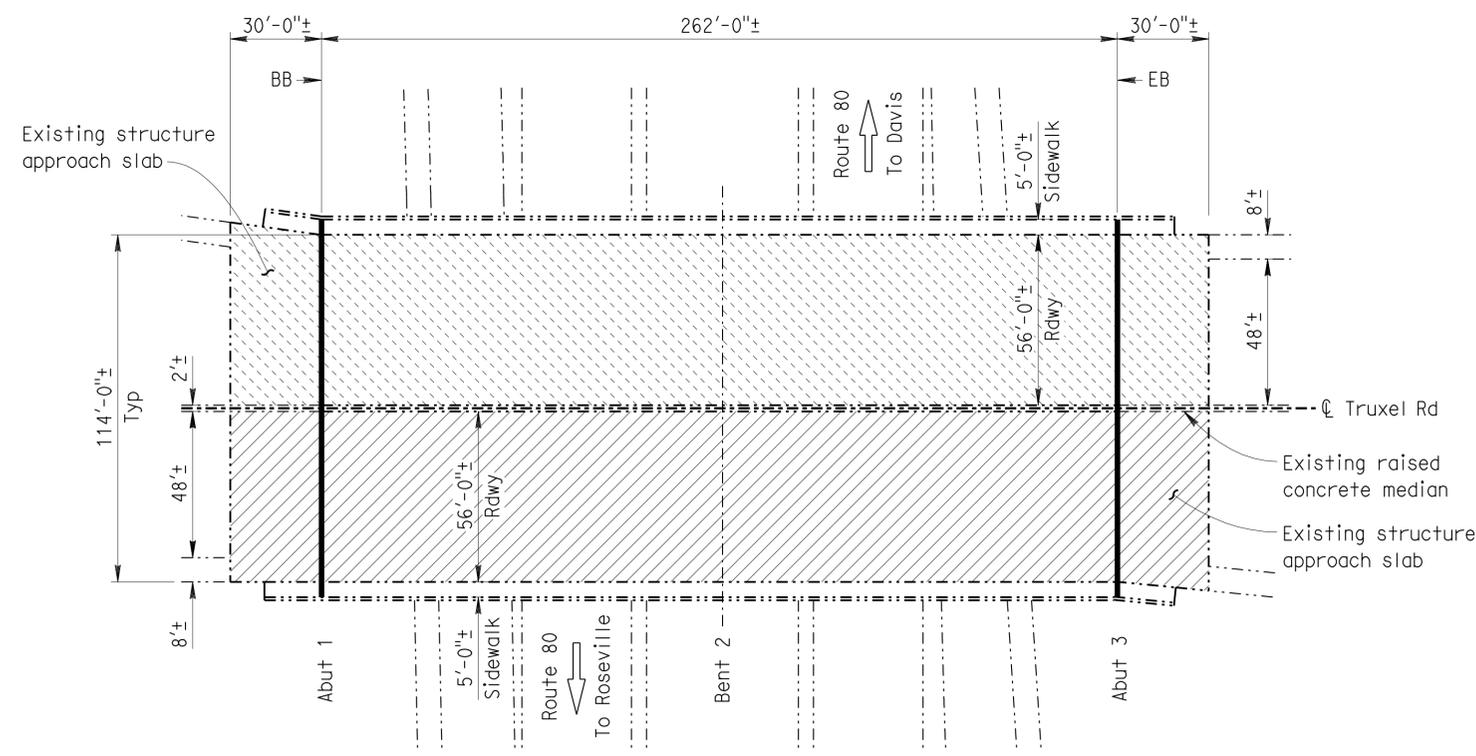
RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80, 275	Var	8	29

Arlene Frank  
 REGISTERED CIVIL ENGINEER  
 No. C 55562  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA

11-8-10  
 DATE  
 2-28-11  
 PLANS APPROVAL DATE

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



### TRUXEL ROAD OVERCROSSING

Br No. 24-0362, Sac, ROUTE 80, PM M3.63  
1" = 30'

TRUXEL ROAD OC Br No. 24-0362

QUANTITIES		
REMOVE UNSOUND CONCRETE	74	CF
CLEAN BRIDGE DECK	36,064	SQFT
CORE TREATED BRIDGE DECK	8	EA
CLEAN EXPANSION JOINT	256	LF
RAPID SETTING CONCRETE (PATCH)	74	CF
JOINT SEAL (MR 1")	128	LF
JOINT SEAL (MR 1 1/2")	128	LF
TREAT BRIDGE DECK	36,064	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL (DEGADECK CRACK SEALER PLUS)	200	GAL
PUBLIC SAFETY PLAN		LUMP SUM

LONGVIEW DRIVE OC Br No. 24-0282S

QUANTITIES		
REMOVE CONTRAST TREATMENT	3,696	SQFT
REMOVE UNSOUND CONCRETE	37	CF
CLEAN BRIDGE DECK	14,784	SQFT
CORE TREATED BRIDGE DECK	6	EA
RAPID SETTING CONCRETE (PATCH)	37	CF
TREAT BRIDGE DECK	14,784	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL (DEGADECK CRACK SEALER PLUS)	164	GAL
PUBLIC SAFETY PLAN		LUMP SUM

NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing.

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



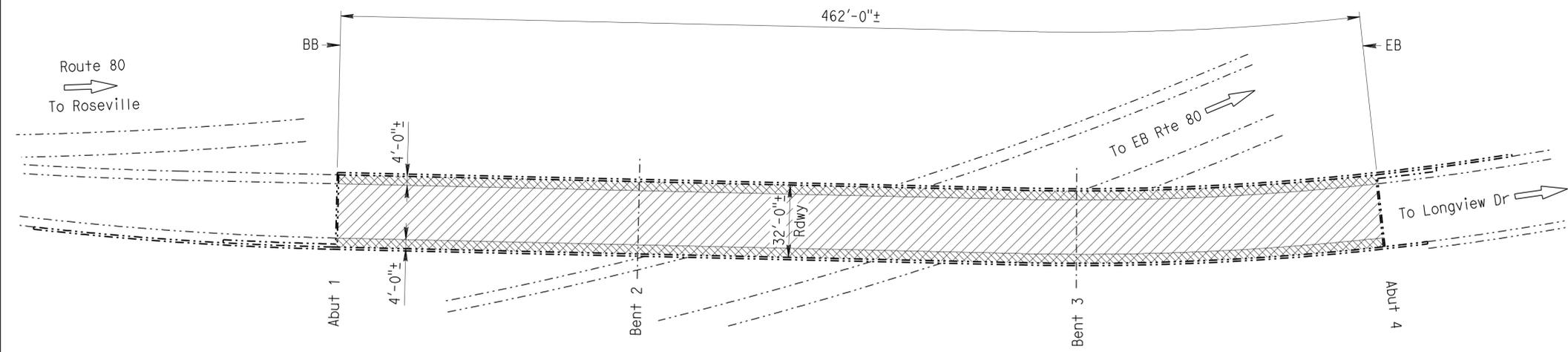
NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of clean and treat existing bridge deck with BASF Degadeck Crack Sealer Plus methacrylate and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete. See MISCELLANEOUS DETAILS sheet.

Indicates limits of remove existing contrast treatment from bridge deck and treat deck with BASF Degadeck Crack Sealer Plus methacrylate.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete. See MISCELLANEOUS DETAILS sheet.

Indicates location of remove existing joint seal and place new joint seal. For details see MISCELLANEOUS DETAILS sheet.



### LONGVIEW DRIVE OVERCROSSING

Br No. 24-0282S, Sac, ROUTE 80, PM M9.19  
1" = 30'

INDEX TO PLANS

SHEET No.	TITLE
1	GENERAL PLAN No. 1
2	GENERAL PLAN No. 2
3	MISCELLANEOUS DETAILS

STANDARD PLANS DATED MAY 2006

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

11-8-10  
 DESIGN ENGINEER

DESIGN	BY Arlene Frank	CHECKED Dale Floyd
DETAILS	BY G.F. Bidwell	CHECKED Dale Floyd
QUANTITIES	BY Arlene Frank	CHECKED Dale Floyd

LAYOUT	BY G.F. Bidwell	CHECKED Arlene Frank
SPECIFICATIONS	BY Mary Kopsa	PLANS AND SPECIFICATIONS COMPARED Mary Kopsa

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

## ROUTE 80 BRIDGES (TREAT DECK)

### GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 03600  
EA 3M7501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

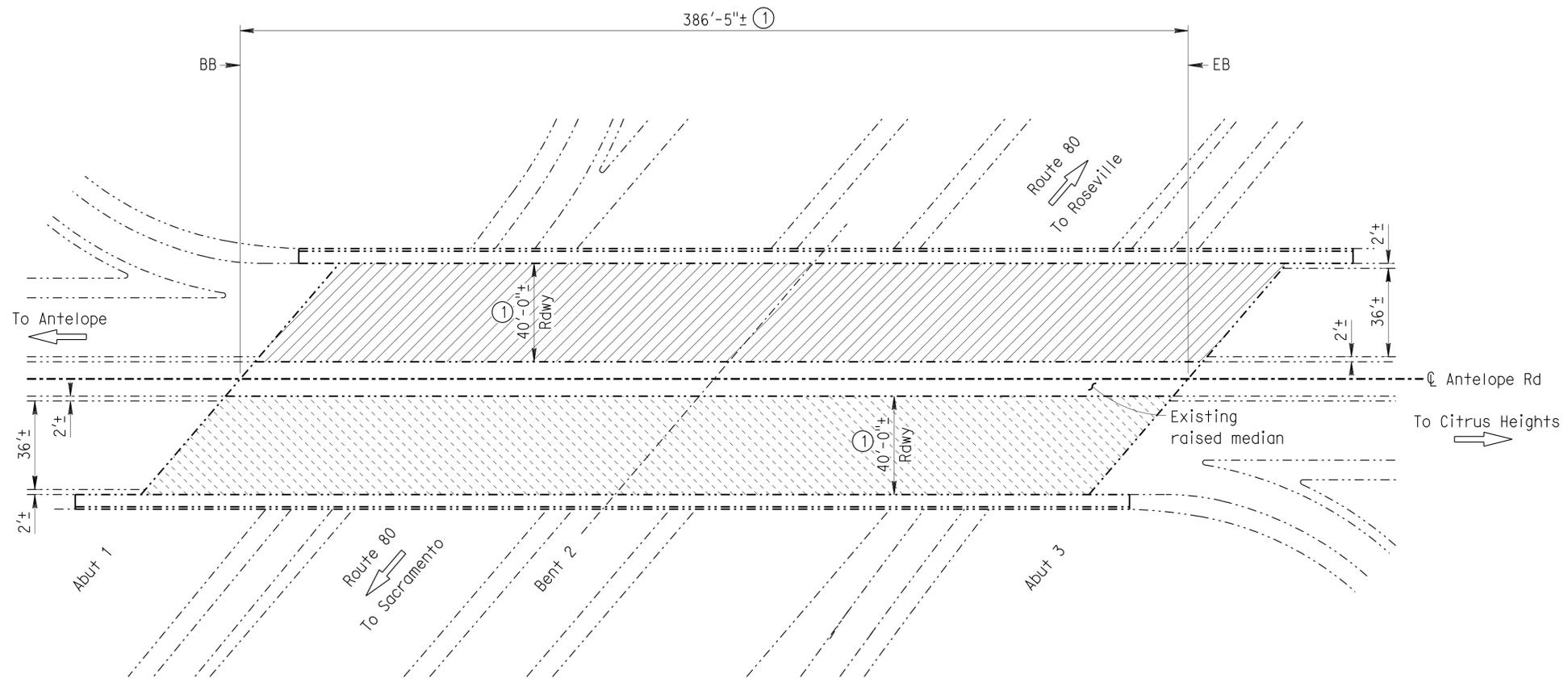
REVISION DATES	SHEET	OF
4-1-10 7-21-10 8-30-10 9-21-10 10-18-10 11-8-10	1	3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80, 275	Var	9	29

Arlene Frank 11-8-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-28-11  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER  
**ARLENE FRANK**  
 No. C 55562  
 Exp. 12-31-12  
 CIVIL  
 STATE OF CALIFORNIA

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates limits of clean and treat existing bridge deck with BASF Degadeck Crack Sealer Plus methacrylate and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete. See MISCELLANEOUS DETAILS sheet.
  - Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate and core treated bridge deck. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete. See MISCELLANEOUS DETAILS sheet.
  - ① Indicates limits of remove existing chip seal from concrete deck prior to clean and treat existing bridge deck.



### ANTELOPE ROAD OVERCROSSING

Br No. 24-0129, Sac, ROUTE 80, PM 16.68  
1" = 30'

ANTELOPE ROAD OC	Br No. 24-0129
QUANTITIES	
REMOVE UNSOUND CONCRETE	78 CF
CLEAN BRIDGE DECK	30,913 SQFT
REMOVE CHIP SEAL	2,319 SQFT
CORE TREATED BRIDGE DECK	8 EA
RAPID SETTING CONCRETE (PATCH)	78 CF
TREAT BRIDGE DECK	30,913 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	171 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL (DEGADECK CRACK SEALER PLUS)	171 GAL
PUBLIC SAFETY PLAN	LUMP SUM

11-8-10 DESIGN ENGINEER	DESIGN	BY Arlene Frank	CHECKED Dale Floyd	LAYOUT	BY G.F. Bidwell	CHECKED Arlene Frank	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTE 80 BRIDGES (TREAT DECK)</b> GENERAL PLAN NO. 2			
	DETAILS	BY G.F. Bidwell	CHECKED Dale Floyd	SPECIFICATIONS	BY Mary Kopsa	CHECKED Mary Kopsa			POST MILE				
	QUANTITIES	BY Arlene Frank	CHECKED Dale Floyd			CHECKED Mary Kopsa			VARIES				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 03600 EA 3M7501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 4-8-10 7-21-10 8-30-10 9-21-10 10-18-10 11-8-10	SHEET 2 OF 3

FILE => 03-3m7501sm102.dgn

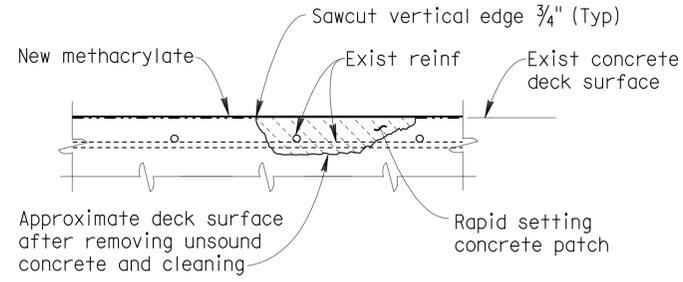
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80, 275	Var	10	29

Arlene Frank 11-8-10  
 REGISTERED CIVIL ENGINEER DATE  
 2-28-11  
 PLANS APPROVAL DATE  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DECK REPAIR TABLE					
REMOVE UNSOUND CONCRETE AND PATCH WITH RAPID SETTING CONCRETE					
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)	UN SOUND CONCRETE (CF)	RAPID SET PATCH (CF)
TRUXEL ROAD OC	24-0362	1	3	74.0	74.0
LONGVIEW DRIVE OC	24-0282S	1	3	37.0	37.0
ANTELOPE ROAD OC	24-0129	1	3	78.0	78.0

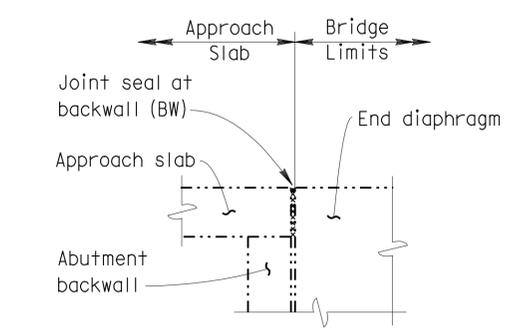
Locations to be determined by the Engineer. For details see "DECK REPAIR DETAIL".



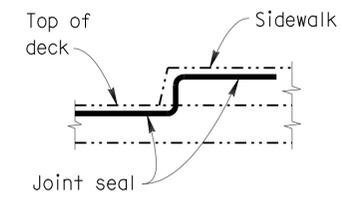
**DECK REPAIR DETAIL**  
 Reinforcement may be encountered during deck concrete removal.  
 NO SCALE

JOINT SEAL TABLE							
NOTE: ALL JOINT SEALS TO BE TYPE B SEAL							
BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
		Abut 1	BW				
TRUXEL ROAD OC	24-0362	Abut 1	BW	1 1/2	128.0	No	12.0
		Abut 3	BW	1	128.0	No	12.0

LEGEND:  
 BW = Backwall



**APPROACH SLAB ON BACKWALL JOINT SEAL LOCATION**  
 NO SCALE



**JOINT SEAL AT LOW SIDE OF DECK**  
 Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.  
 NO SCALE

The following notes apply to JOINT SEAL TYPE B:

- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
- Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
- W1 shall be the smaller of the values determined as follows:
  - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
  - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
- Bend Type B joint seal 6" up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.
- For details not shown see

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)	DESIGN	BY Arlene Frank	CHECKED Dale Floyd	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	VARIOUS	ROUTE 80 BRIDGES (TREAT DECK) MISCELLANEOUS DETAILS
	DETAILS	BY G.F. Bidwell	CHECKED Dale Floyd			POST MILE	VARIES	
	QUANTITIES	BY Arlene Frank	CHECKED Dale Floyd			VARIES	VARIES	

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3  
 CU 03600 EA 3M7501  
 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 4-8-10, 7-21-10, 8-30-10, 9-21-10, 10-18-10, 11-8-10  
 SHEET 3 OF 3  
 FILE => 03-3m7501sm103.dgn

**GENERAL NOTE:**

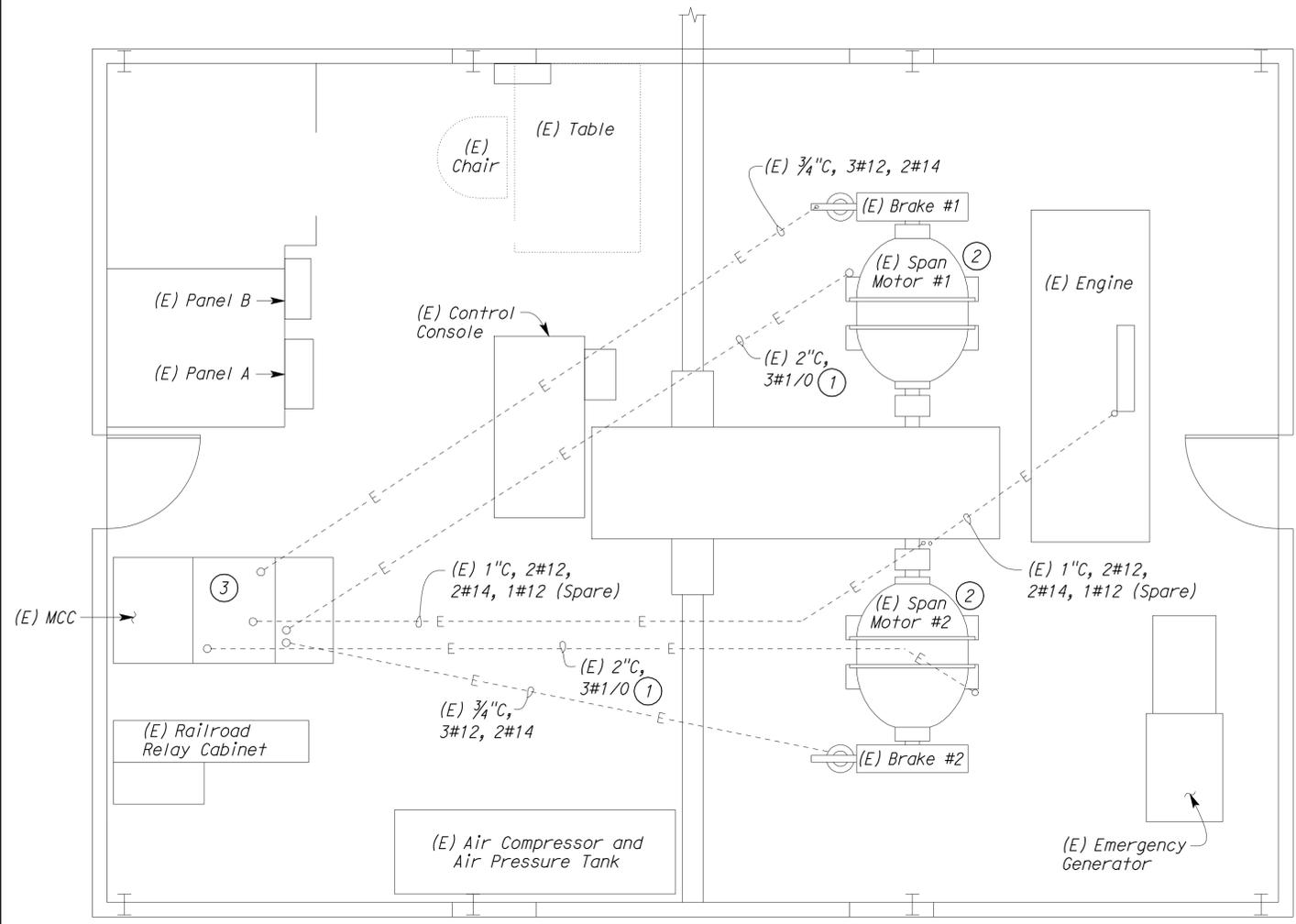
All equipment and conduits are not shown for clarity.

**NOTES:**

- Existing motor secondary cables to be removed and replaced with new. Keep existing wire numbers. Existing motor cable 1/0 AWG, AWM Style 3231, CSA Type SEW-2, 200 C, 600 V.
- Existing motor brushes to be removed and replace with new. New brushes are to be properly aligned with rotor collector rings.
- Existing power resistors are to be removed and replaced as indicated. See sheet EE-2.
- Existing contactors, Telemecanique LC1F1504, 120-volt coil; to be rewired. AR7 will be spare.

**SYMBOLOLOGY:**

(E) Existing



**CONTROL HOUSE PLAN**

SCALE: 1/2" = 1'-0"

(E) MOTOR DATA

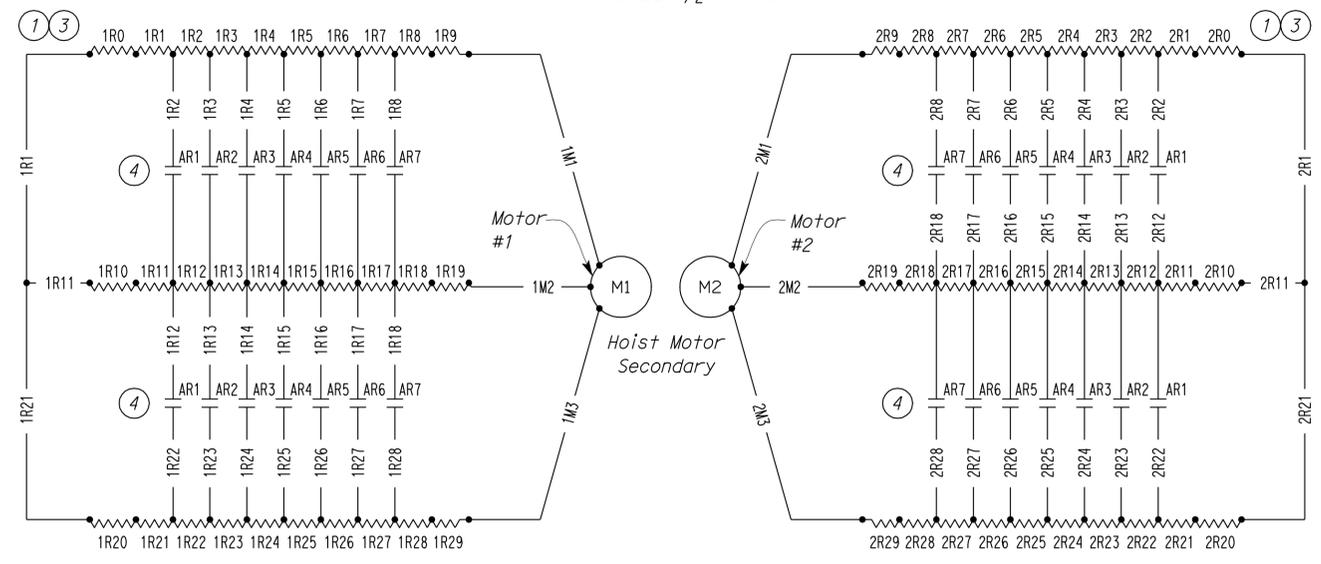
Westinghouse Type C1 induction motor,  
 100 HP, 3 Ø, 2300 VAC, 60 Hz,  
 Style: 21F38, Serial (North) 1S1F38, (South) 2S1F38,  
 Frame: 856 C, 580 RPM @ FL, 2250 Max Torque,  
 Rotor Circuit 422 VAC between rings, 106 A per Ring,  
 31.8 A Per Terminal, 6 Brushes Per Motor

(E) RESISTORS ③

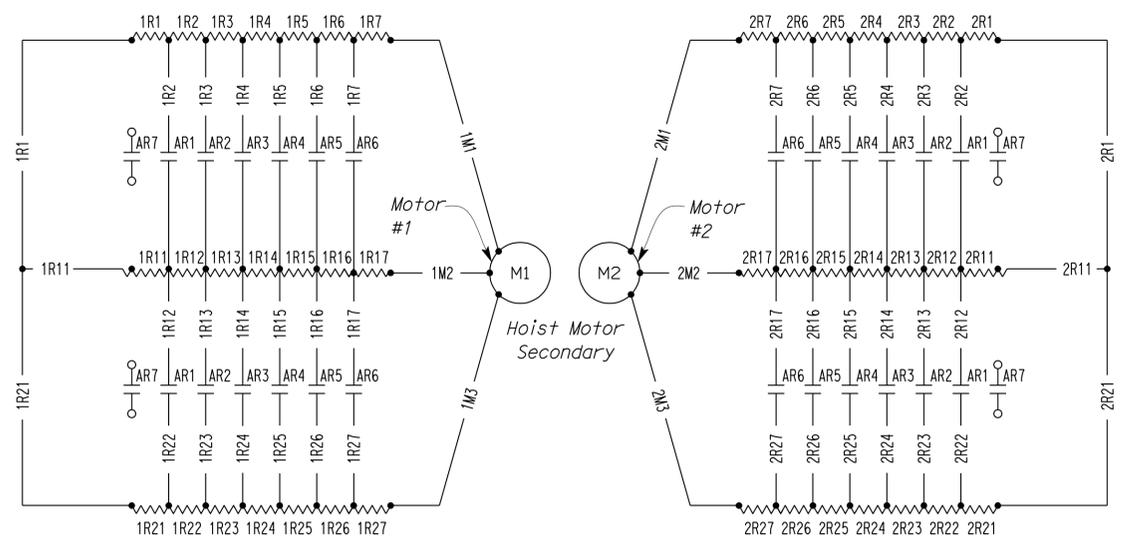
Res	Ø A		Ø B		Ø C			
	1st Set	2nd Set	1st Set	2nd Set	1st Set	2nd Set		
R0	.9	.9	R10	.9	.9	R20	.9	.9
R1	2.3	2.3	R11	2.3	2.3	R21	2.35	2.3
R2	.61	.62	R12	1.95	1.95	R22	1.95	1.95
R3	.38	.39	R13	2.0	2.0	R23	2.0	2.0
R4	.30	.31	R14	.30	.30	R24	.30	.3
R5	.235	.24	R15	.24	.24	R25	.24	.24
R6	.16	.175	R16	.16	.17	R26	.165	.175
R7	.125	.13	R17	.13	.13	R27	.13	.13
R8	1.2	1.6	R18	1.2	1.6	R28	1.2	1.6
R9	1.2	1.6	R19	1.2	1.6	R29	1.2	1.6

(N) RESISTORS

Res	Ø A		Ø B		Ø C			
	1st Set	2nd Set	1st Set	2nd Set	1st Set	2nd Set		
R1	9.0	9.0	R11	9.0	9.0	R21	9.0	9.0
R2	3.0	3.0	R12	3.0	3.0	R22	3.0	3.0
R3	2.0	2.0	R13	2.0	2.0	R23	2.0	2.0
R4	0.5	0.5	R14	0.5	0.5	R24	0.5	0.5
R5	0.3	0.3	R15	0.3	0.3	R25	0.3	0.3
R6	0.3	0.3	R16	0.3	0.3	R26	0.3	0.3
R7	0.5	0.5	R17	0.5	0.5	R27	0.5	0.5



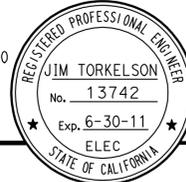
**EXISTING RESISTOR SCHEMATIC**

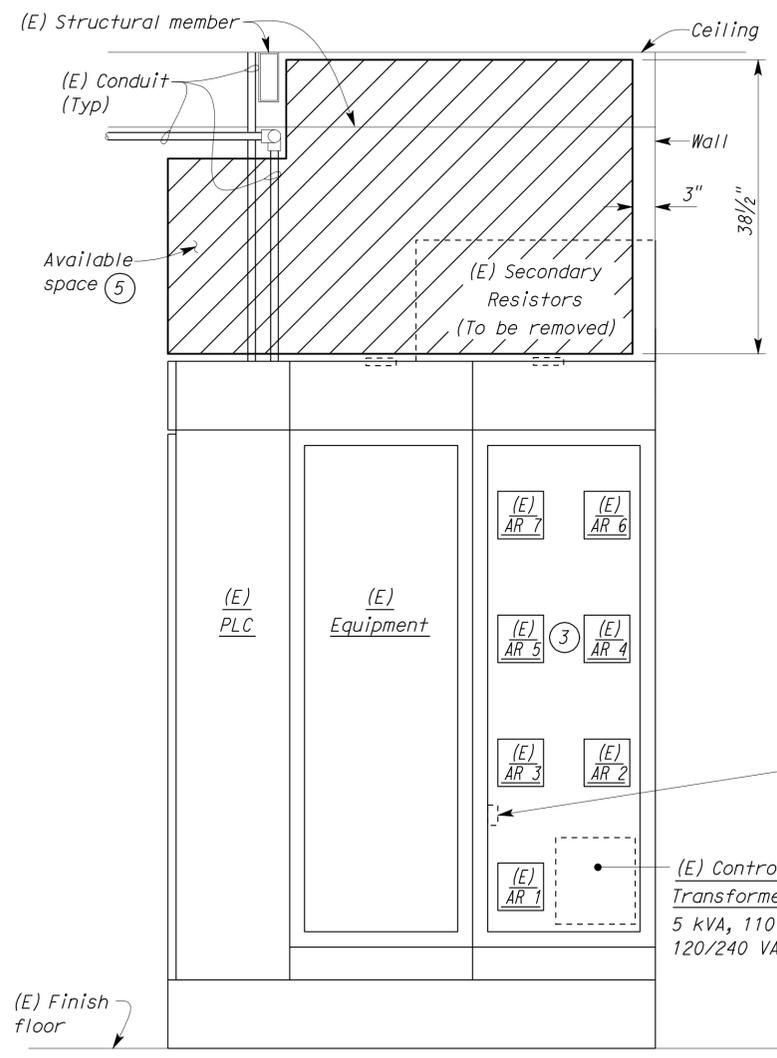
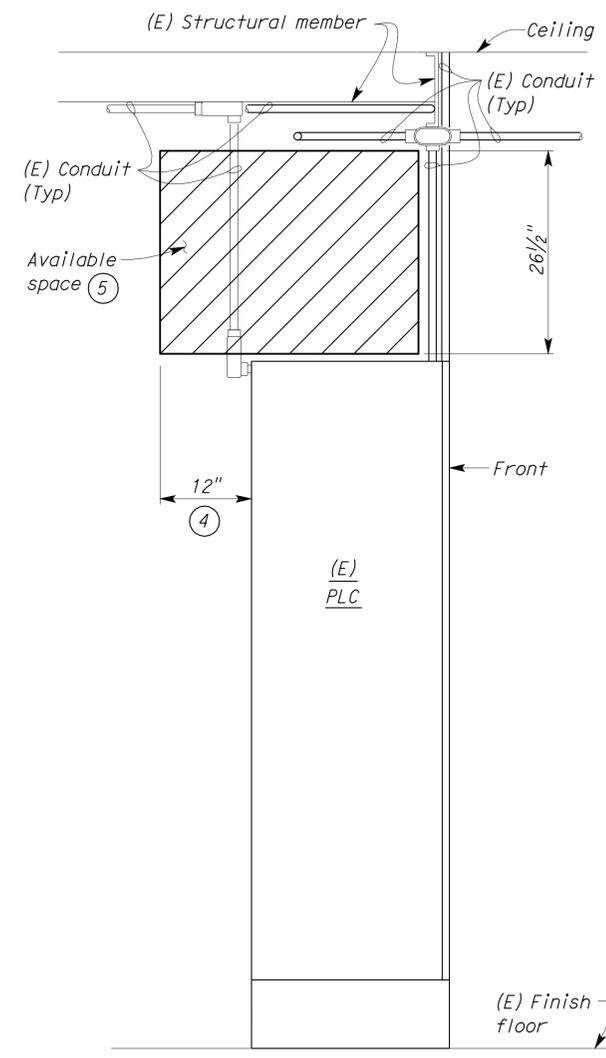
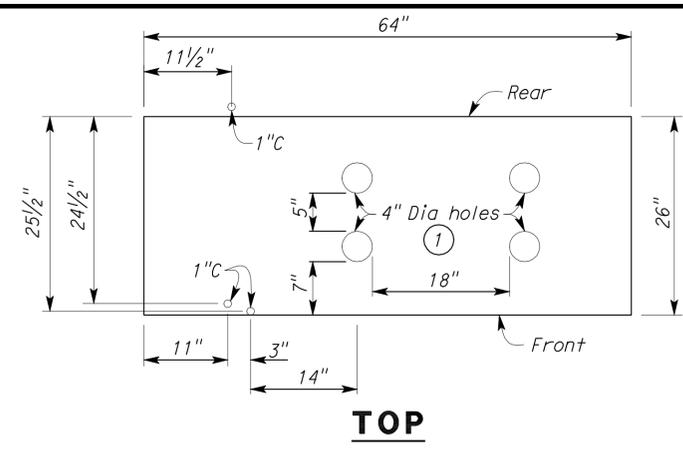


**MODIFIED RESISTOR SCHEMATIC**

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

DESIGN BY <i>Nate Dekens</i> CHECKED <i>Jim Torkelson</i> DETAILS BY <i>Kathi Andreasen</i> CHECKED <i>Jim Torkelson</i> QUANTITIES BY <i>Nate Dekens</i> CHECKED <i>Jim Torkelson</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	<b>TOWER BRIDGE</b> <b>ROPES &amp; RESISTORS REPLACEMENT</b> RESISTOR LOCATION AND DETAILS	SHEET	
			22-0021		EE-1	
			POST MILE 13.0			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE	3614 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY) 6/28/10 7/28/10 7/28/10 7/28/10 7/28/10 7/28/10 11/8/10	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	12	29
 REGISTERED ELECTRICAL ENGINEER DATE 11-8-10					
2-28-11 PLANS APPROVAL DATE					
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



- Notes:
- ① Use existing 4" diameter feed-through holes, if possible.
  - ② Existing power block to be reused.
  - ③ Existing contactors, Telemecanique LC1F1504, 120 V coil; to be rewired.
  - ④ The Contractor is to supply a support rack if 12" of overhang is used for new resistors.
  - ⑤ Hatched area indicates space available for new power resistors.

**LEFT ELEVATION**

**FRONT ELEVATION**

**MOTOR CONTROL CENTER (MCC)**

THIS DRAWING ACCURATE FOR ELECTRICAL WORK ONLY.

SCALE 1" = 1'-0"

DOES SD Imperial Rev. 1/07	DESIGN	BY <i>Nate Dekens</i>	CHECKED <i>Jim Torkelson</i>	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO.	22-0021	<b>TOWER BRIDGE</b> <b>ROPES &amp; RESISTORS REPLACEMENT</b> DETAILS	SHEET	EE-2		
	DETAILS	BY <i>Kathi Andreasen</i>	CHECKED <i>Jim Torkelson</i>			POST MILE	13.0		DISREGARD PRINTS BEARING EARLIER REVISION DATES →	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
	QUANTITIES	BY <i>Nate Dekens</i>	CHECKED <i>Jim Torkelson</i>			UNIT PROJECT NUMBER & PHASE	3614 03000005971			7/6/10 7/7/10 7/7/10 11/2/10		

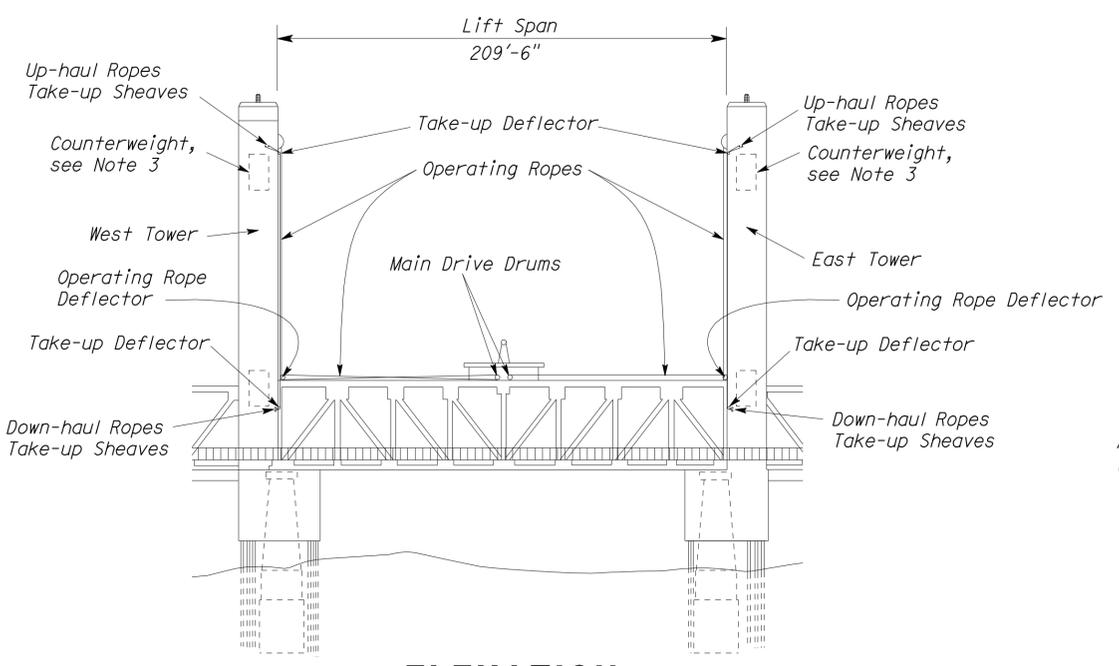
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80, 275	Var	13	29

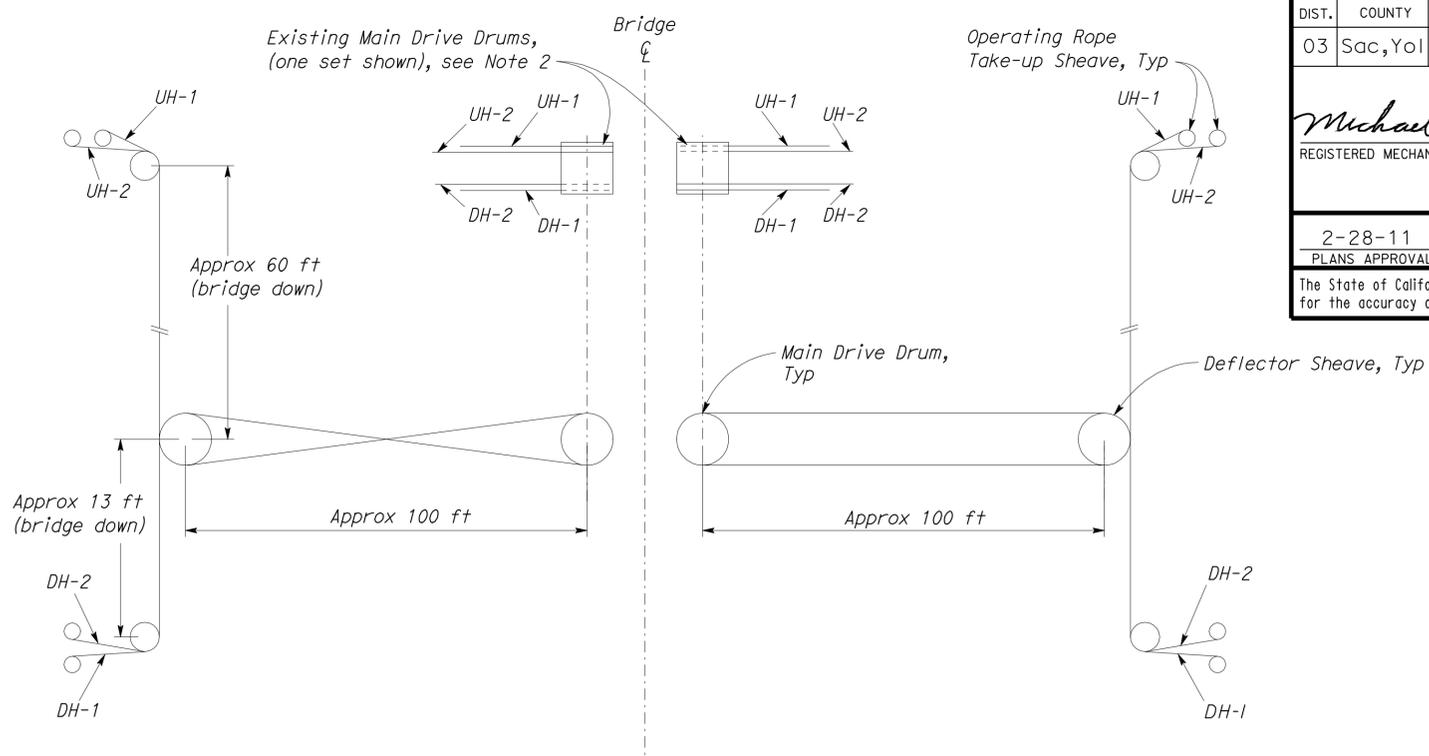
Michael X. White  
 REGISTERED MECHANICAL ENGINEER  
 No. 29108  
 DATE 11-8-10  
 Exp. 6/30/12  
 MECH  
 STATE OF CALIFORNIA

2-28-11  
 PLANS APPROVAL DATE

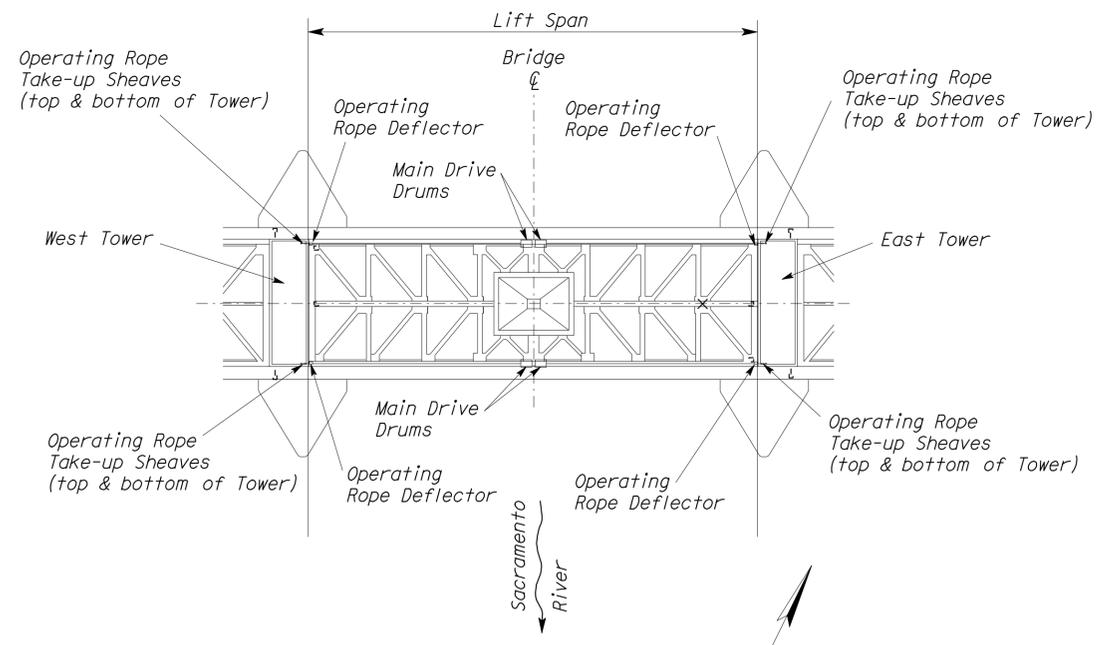
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**ELEVATION**  
SCALE 1" = 80'-0"



**DIAGRAM OF OPERATING ROPES**  
No Scale



**SITE PLAN**  
SCALE 1" = 80'-0"

**OPERATING ROPES**

1" Diameter, 6 x 37, wire ropes		
4 up-haul ropes	UH-1	253 ft 4 in*
4 up-haul ropes	UH-2	260 ft 6 in*
4 down-haul ropes	DH-1	249 ft 4 in*
4 down-haul ropes	DH-2	255 ft 0 in*

\*Lengths were taken from the original As-Built sheets. The Contractor shall verify lengths prior to ordering the rope material.

General Notes:

- A. Location of existing equipment as shown is approximate only. Verify exact location in the field.
- B. Not all existing mechanical systems are shown.

Notes:

1. There are 16 ropes total that must be replaced. With the lift span down: each down-haul rope starts at a down-haul take-up sheave, passes over 2 deflectors, winds around the main drive drum, and is anchored there. Each up-haul rope starts at an up-haul take-up sheave, passes over 2 deflectors, winds around the main drive drum, and is anchored there.
2. Install up-haul ropes on outer end of drums. Install down-haul ropes on inner end of drums. With span in the down position there are 2 and 2½ turns respectively of up-haul ropes on drums, and 11 and 11½ turns respectively of down-haul ropes on drums.
3. Install counterweight blocks for adjust balance condition in voids within counterweights.

DESIGN BY Michael White CHECKED Rich Newell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE ROPES &amp; RESISTORS REPLACEMENT</b>	SHEET <b>M-1</b>
			POST MILE 13.0		
			EXISTING SITE PLAN		
DETAILS BY Michael White CHECKED Rich Newell	UNIT PROJECT NUMBER & PHASE 3618 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF	
QUANTITIES BY Michael White CHECKED Rich Newell	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	11/8/10			

DOES SD Imperial Rev. 9/02

28-FEB-2011 14:47

m\_1.dgn

**INDEX OF SHEETS**

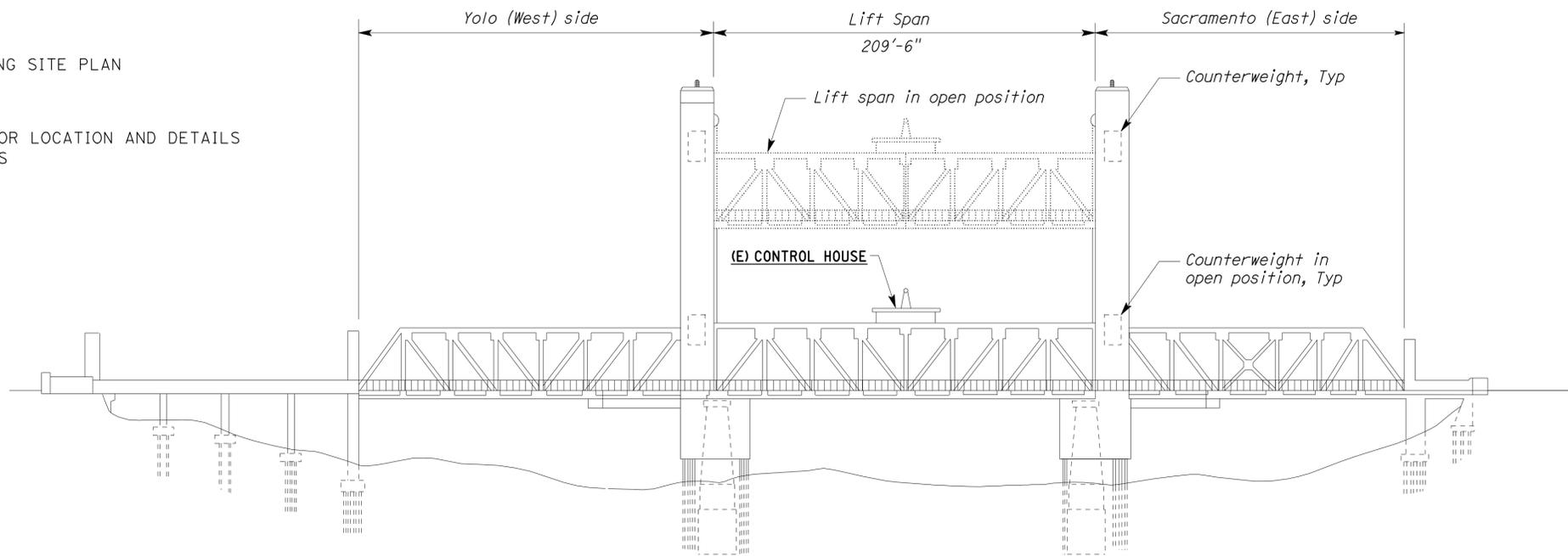
SHEET NO.	DESCRIPTION
ME-1	SITE PLAN AND LEGEND
<b>MECHANICAL</b>	
M-1	EXISTING SITE PLAN
<b>ELECTRICAL</b>	
EE-1	RESISTOR LOCATION AND DETAILS
EE-2	DETAILS

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	14	29

*Michael X. White*  
 REGISTERED ELECTRICAL ENGINEER DATE 11-8-10  
 No. 29108  
 Exp. 6/30/12  
 MECH  
 STATE OF CALIFORNIA

2-28-11  
 PLANS APPROVAL DATE

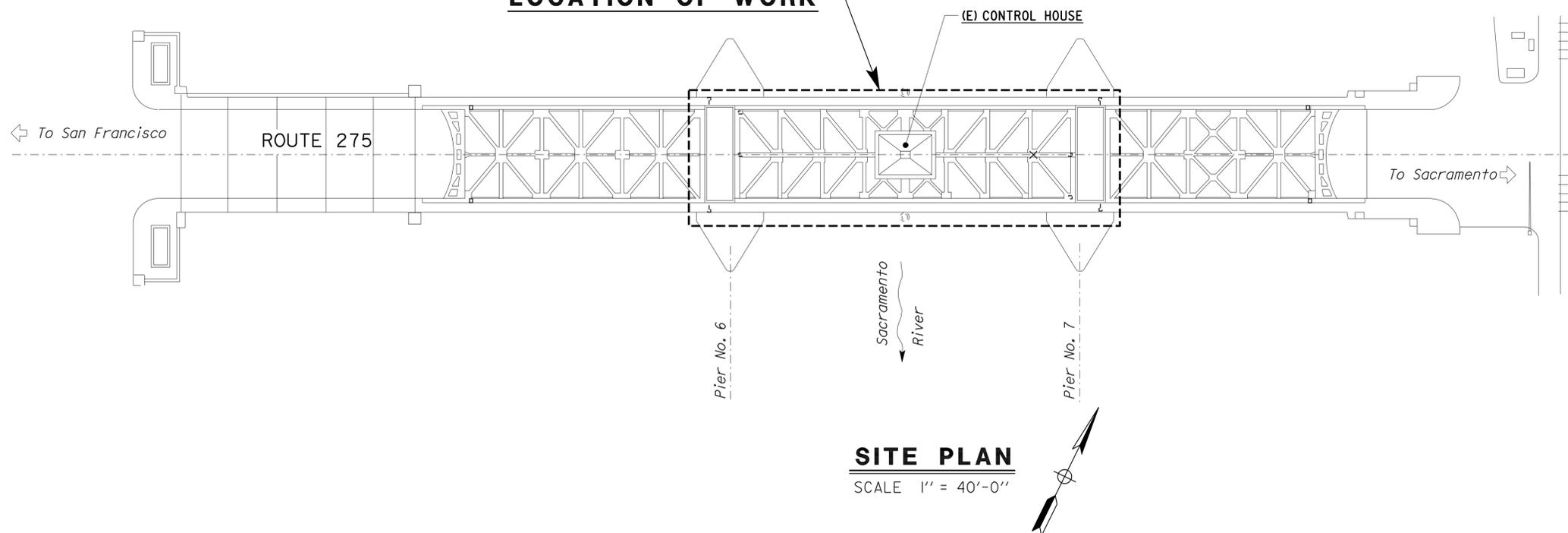
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**ELEVATION**

SCALE 1" = 40'-0"

**LOCATION OF WORK**



**SITE PLAN**

SCALE 1" = 40'-0"

**LEGEND**

SYMBOL	DESCRIPTION
<b>CEILING WALL</b>	
(J) (J)	JUNCTION BOX
—	CONDUIT CONCEALED IN CEILING OR WALL
----	CONDUIT CONCEALED IN FLOOR
-*-*	CONDUIT EXPOSED
-MC-	CONDUIT, RIGID STEEL,
-PVC-	CONDUIT, POLYVINYL CHLORIDE, UNDERGROUND
~~~~~	CONDUIT, FLEXIBLE
A EE-2	SECTION/ELEVATION LETTER SHEET NUMBER
I EE-2	DETAIL NUMBER SHEET NUMBER

**REMODEL WORK**

SYMBOL	DESCRIPTION
-E-E-	EXISTING CONDUIT AND CONDUCTORS-TO REMAIN UNLESS OTHERWISE NOTED
-**-	EXISTING CONDUIT AND CONDUCTORS-REMOVE
(J)	EXISTING JUNCTION BOX-TO REMAIN

**STANDARD NOTES**

- AB ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.

**PROJECT NOTES**

- A. SEPARATE GROUNDED (NEUTRAL) CONDUCTOR SHALL BE USED FOR EACH 120-VOLT CIRCUIT.
- B. HOMERUNS TO PANELBOARDS SHALL BE INSTALLED AS SHOWN ON THE PLANS. HOMERUNS SHALL NOT BE COMBINED.
- C. A SINGLE INSULATED EQUIPMENT GROUNDING CONDUCTOR (SIZED AS REQUIRED) SHALL BE INSTALLED IN EACH CONDUIT RUN.

DESIGN SUPERVISOR <i>John Schreff</i>	DESIGN BY Michael White	CHECKED Jim Torkelson
DESIGN ENGINEER <i>Alan M. Foster</i>	DETAILS BY Michael White	CHECKED Jim Torkelson
	QUANTITIES BY Michael White	CHECKED Jim Torkelson

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
 ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

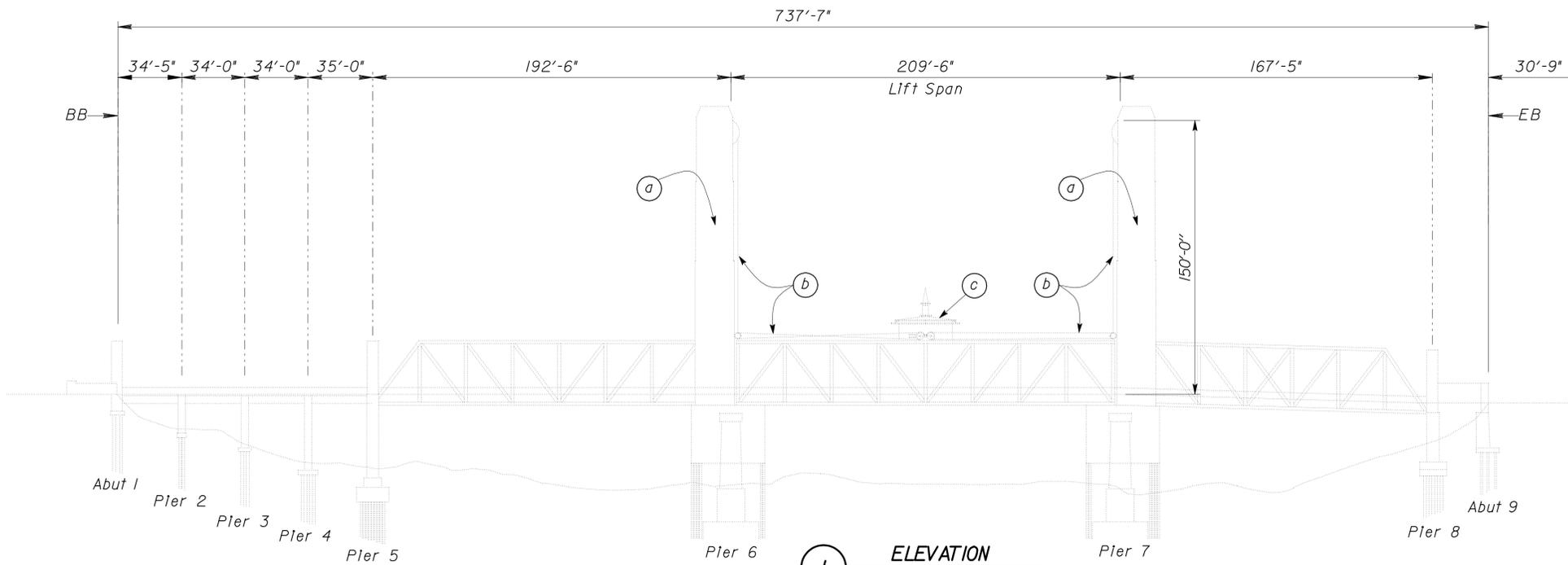
BRIDGE NO.	22-0021
POST MILE	13.0

**TOWER BRIDGE  
 ROPES & RESISTORS REPLACEMENT**  
 SITE PLAN AND LEGEND

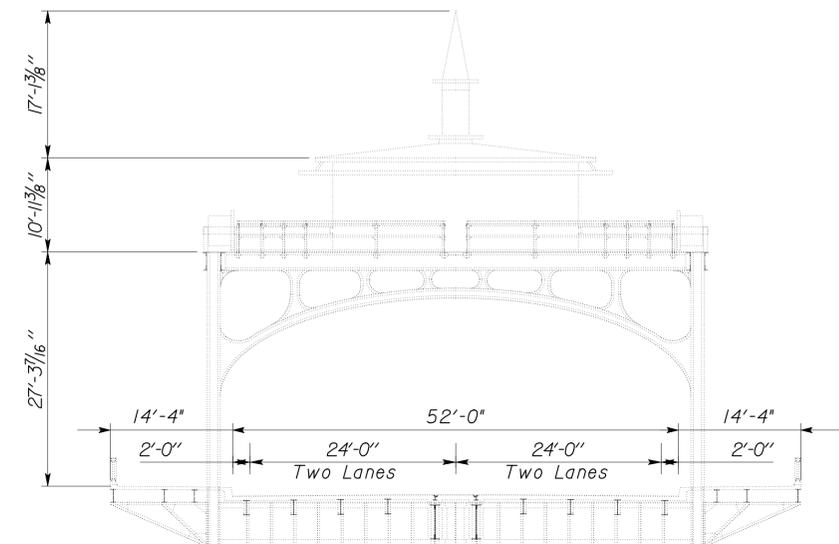
SHEET ME-1

REVISION DATES (PRELIMINARY STAGE ONLY)	
6/28/10	11/8/10

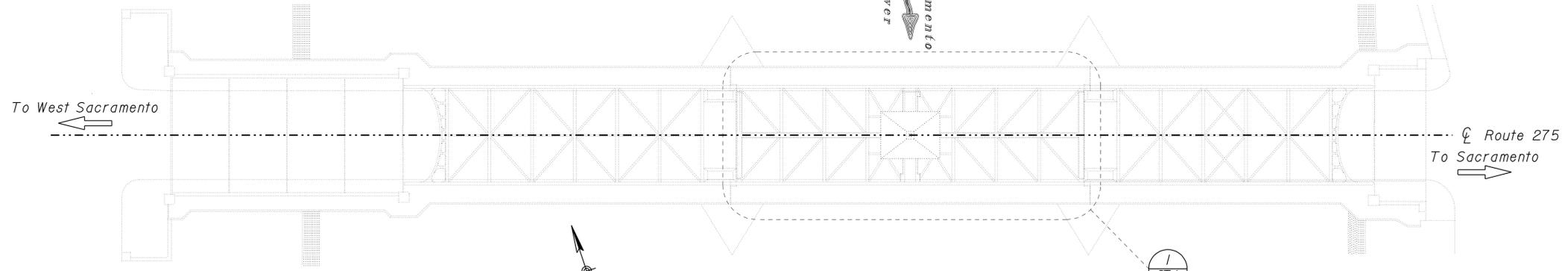
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80, 275	Var	15	29
<b>RdP</b>			11-11-10	REGISTERED PROFESSIONAL ENGINEER Robert du Plaine No. 51447 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA	
REGISTERED CIVIL ENGINEER			DATE		
2-28-11			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



**1** ELEVATION  
Scale 1" = 40' - 0"



**3** LIFT SPAN TYPICAL SECTION  
Scale 3/32" = 1' - 0"



**2** PLAN  
Scale 1" = 40' - 0"

INDEX TO PLANS

STANDARD PLANS	
ST-GP	GENERAL PLAN
ST-1	LAYOUT PLAN
STYLE 'A' CATWALK	
STI-1	CHANNEL FRAMING PLAN
STI-2	GRATING FRAMING PLAN
STI-3	HANDRAIL FRAMING PLAN
STI-4	GUARDRAIL FRAMING PLAN
STI-5	ELEVATION AND FRAMING DETAILS
STI-6	FRAMING DETAILS
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ST2-1	WT AND GRATING FRAMING PLAN
ST2-2	HANDRAIL FRAMING PLAN
ST2-3	GUARDRAIL FRAMING PLAN
ST2-4	FRAMING DETAILS
STYLE 'C' CATWALK	
ST3-1	WT AND GRATING FRAMING PLAN
ST3-2	ELEVATION AND FRAMING DETAILS

NOTES:

- (a) Location of Lift Span Counterweights  
See Adjust Balance Span Condition  
In Special Provisions.
  - (b) Location of Replace Operating Ropes
  - (c) Control House  
Location of Electrical work.
- For Catwalk Addition locations see (1/ST-1)

FOR DESIGN NOTES AND SYMBOLS SEE ST-1

ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO EXISTING STRUCTURE VARIATIONS AND REQUIRE FIELD VERIFICATION.

Note  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

QUANTITIES

BRIDGE REMOVAL (PORTION)	LUMP SUM
FURNISH STRUCTURAL STEEL (BRIDGE)	5,300 LB
ERECT STRUCTURAL STEEL (BRIDGE)	5,300 LB
SPOT CLEAN AND PAINT (E) STEEL	20 SQ FT
CLEAN AND PAINT STRUCTURAL STEEL	LUMP SUM
MISCELLANEOUS METAL (BRIDGE)	2,900 LB
ELECTRICAL WORK	LUMP SUM
ADJUST BALANCE CONDITION	LUMP SUM
REPLACE OPERATING ROPES	LUMP SUM

DESIGN BY Robert du Plaine CHECKED BY Sean R. Samuel DETAILS BY David W. Good CHECKED BY Robert du Plaine QUANTITIES BY Robert du Plaine CHECKED BY David W. Good	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b> GENERAL PLAN	SHEET <b>ST-GP</b>
			POST MILE 13.07		REVISION DATES (PRELIMINARY STAGE ONLY)
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT PROJECT NUMBER & PHASE		DISREGARD PRINTS BEARING EARLIER REVISION DATES	
0 1 2 3		3599 03000005971		08-25-10	

TAEMWW Imperial Rev. 7/10  
 EA 3M7501  
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yol	80,275	Var	16	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

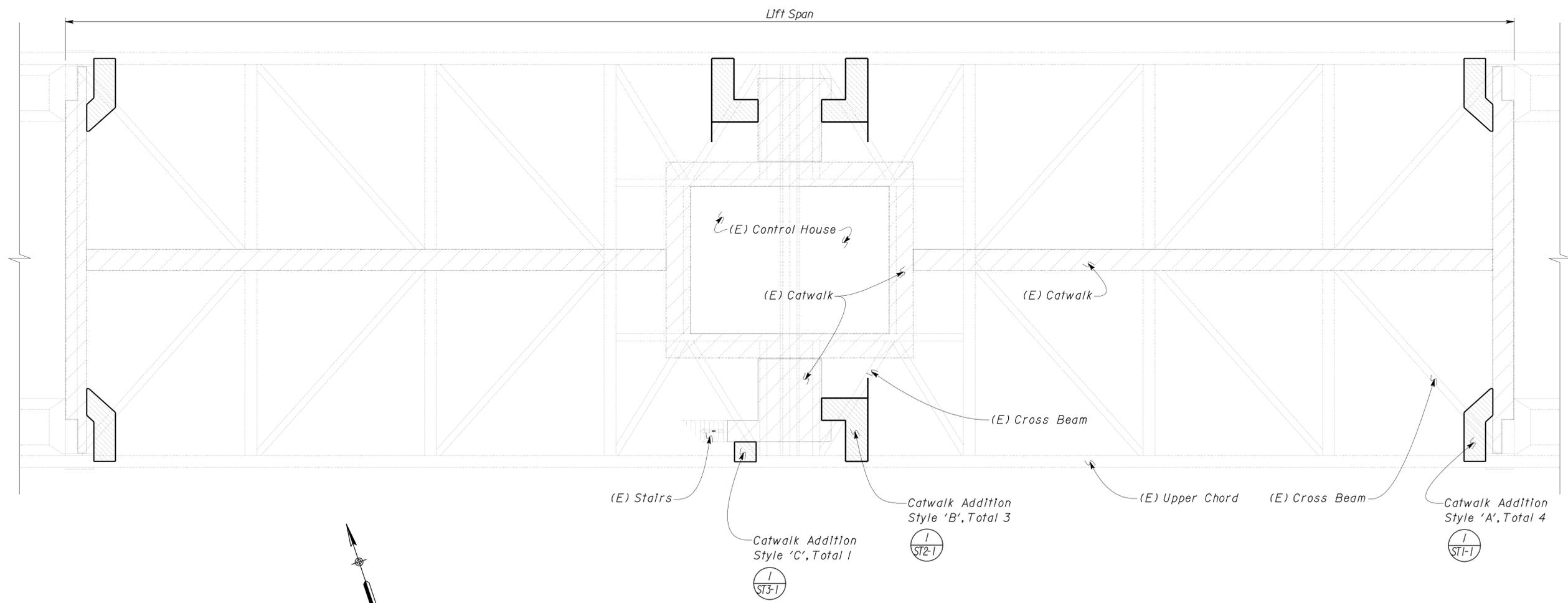
**A DESIGN NOTES**

1. Design: The structural work on this project has been designed to conform to the 2007 California Building Code.
  - a. Loads :  
Live Loads : Catwalk = 40 PSF
  - c. Structural Steel (Working Stress Design) :
 

Angle Sections	Minimum $F_y = 36$ ksi
Channel Sections	Minimum $F_y = 36$ ksi
WT Sections	Minimum $F_y = 36$ ksi
Bar Sections	Minimum $F_y = 36$ ksi
2. Catwalk grating shall be I2-R-7 with  $\frac{3}{4}$ " x  $\frac{3}{16}$ " bars. Galvanized and painted to match the Tower Bridge.
3. All Steel and Miscellaneous Metal to be hot-dip galvanized after fabrication and painted to match the Tower Bridge.
4. Bolts shall conform to ASTM Grade A325. All bolts are Bearing type connections. Thread lock system shall be provided. Bolts to be galvanized. Paint after installation to match the Tower Bridge.
5. Safety Chain:  $\frac{1}{4}$ " galvanized coil chain. Provide  $\frac{3}{16}$ " Stainless Steel pear-shaped threaded quick links each end.

**B SYMBOLOGY**

- Indicates New Catwalk construction
- Indicates Existing (E) Features
- (E) Existing



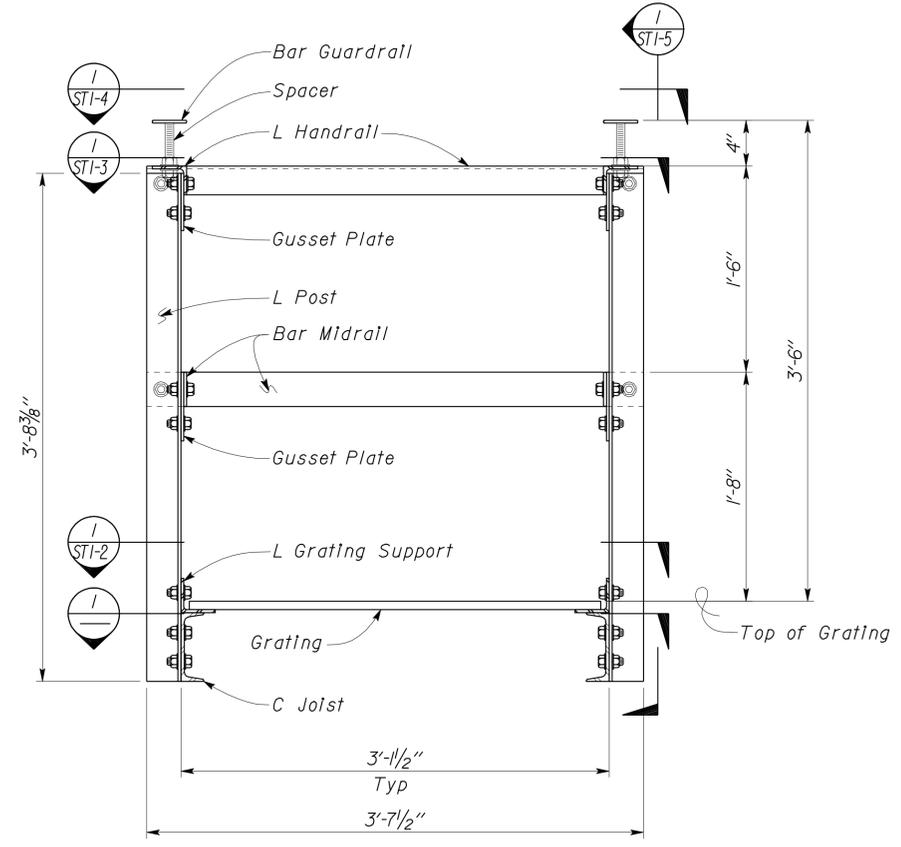
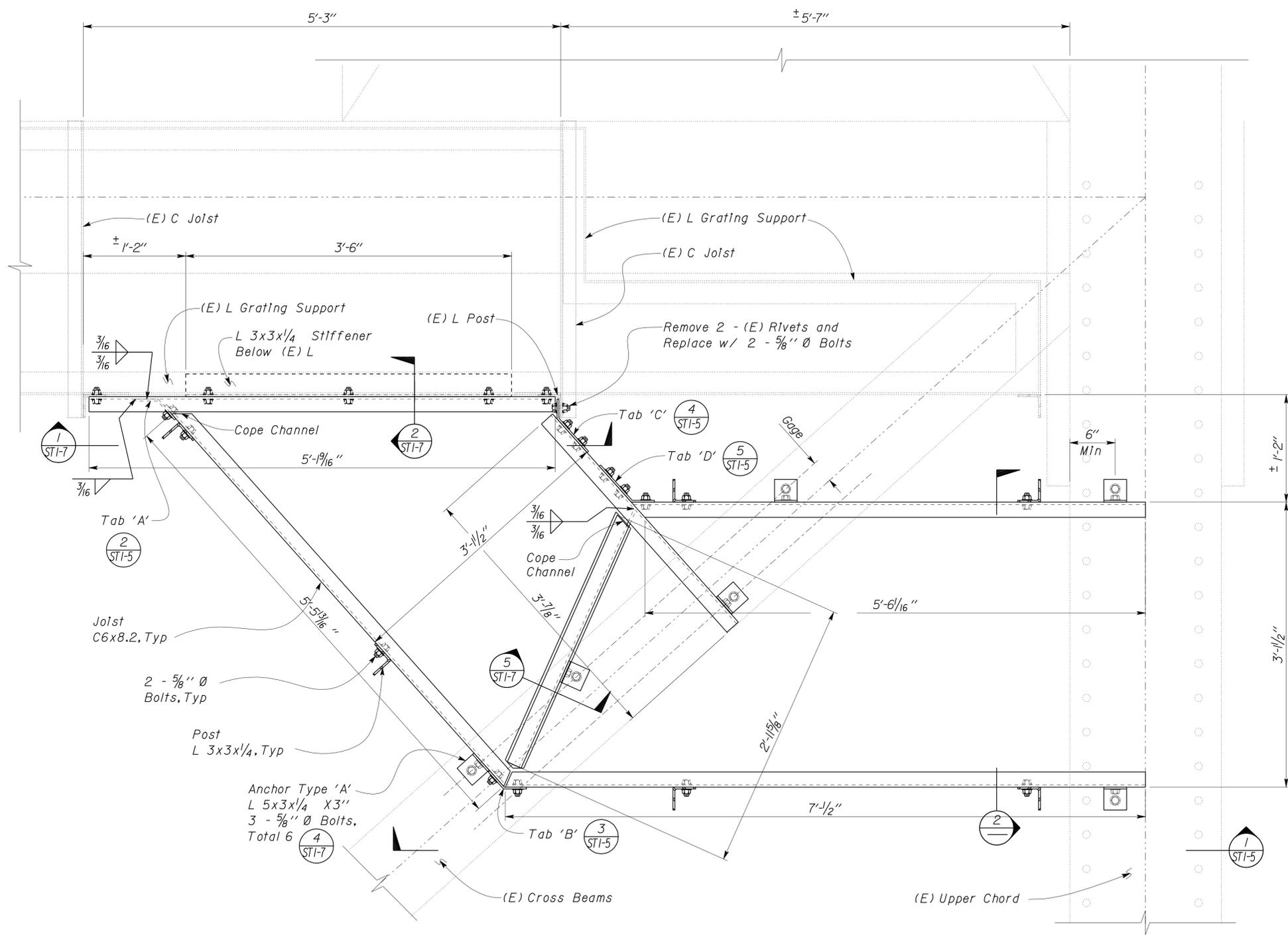
**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**LAYOUT PLAN**  
Scale  $\frac{1}{8}$ " = 1'-0"

TAEMWW Imperial Rev. 7/10	DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>TOWER BRIDGE CATWALK ADDITION</b>  LAYOUT PLAN	SHEET <b>ST-1</b>
	DETAILS	BY David W. Good	CHECKED Robert du Plaine		ARCHITECTURAL AND STRUCTURAL DESIGN	22-0021		
	QUANTITIES	BY Robert du Plaine	CHECKED David W. Good		13.07			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT PROJECT NUMBER & PHASE	3599 03000005971	REVISION DATES (PRELIMINARY STAGE ONLY)	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES	05-26-10   07-20-10   08-25-10	
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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	17	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11 PLANS APPROVAL DATE					
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**1 CHANNEL FRAMING PLAN**  
Scale 1 1/2" = 1'-0"  
Rotated 90°

**2 TYPICAL SECTION**  
Scale 1 1/2" = 1'-0"

For Information not shown, see **1/STI-5**

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b> CHANNEL FRAMING PLAN	SHEET <b>ST1-1</b>
	DETAILS	BY David W. Good			CHECKED Robert du Plaine		
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	UNIT PROJECT NUMBER & PHASE EA 3M7501	3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

TAEMWW Imperial Rev. 7/10

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

UNIT PROJECT NUMBER & PHASE

DISREGARD PRINTS BEARING EARLIER REVISION DATES

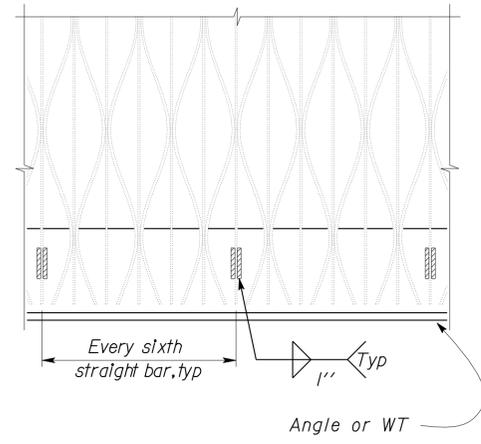
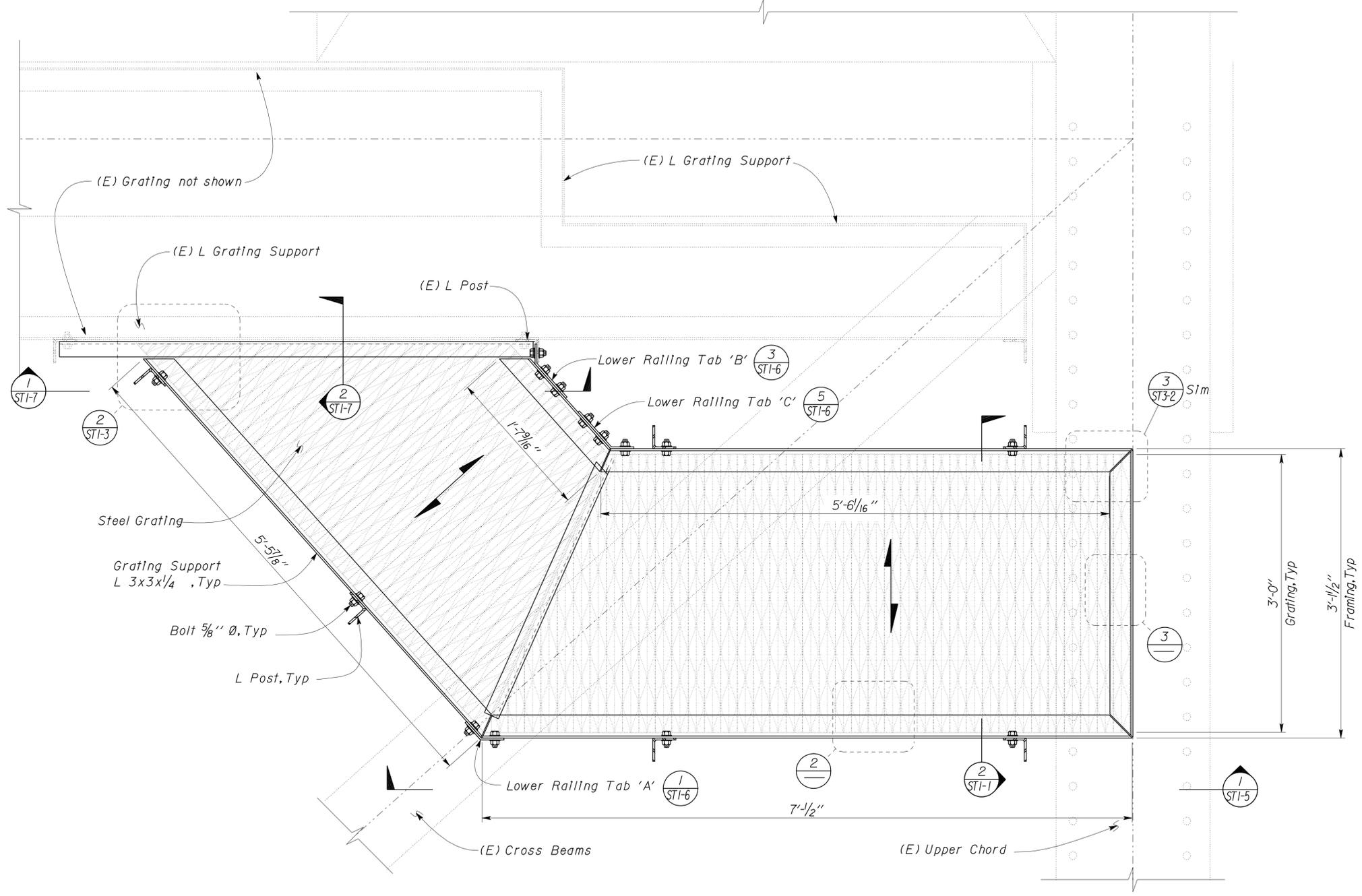
REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

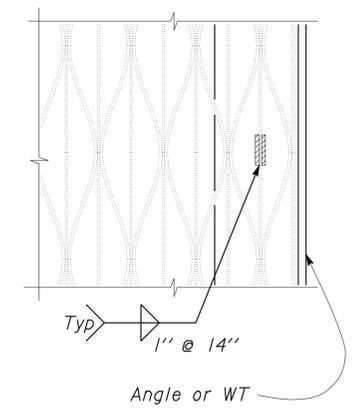
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28-FEB-2011 11:16

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yol	80,275	Var	18	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

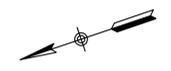


**2 Grating WELDING DETAIL**  
No Scale



**3 Grating WELDING DETAIL**  
No Scale

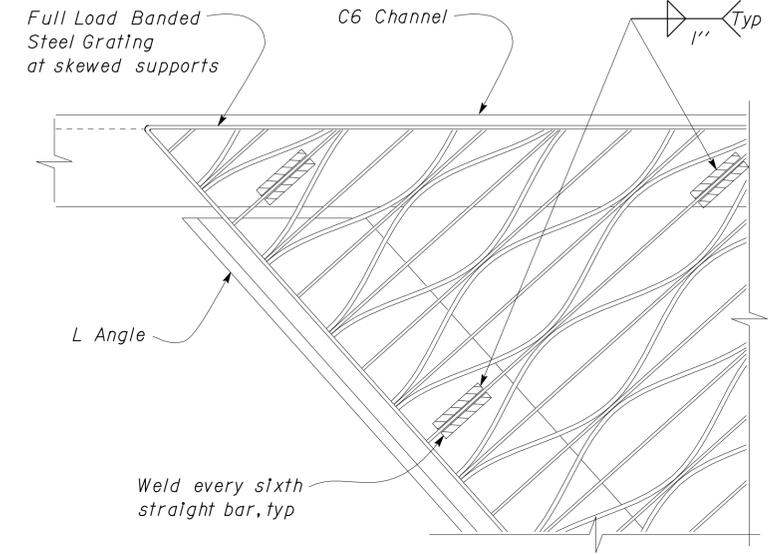
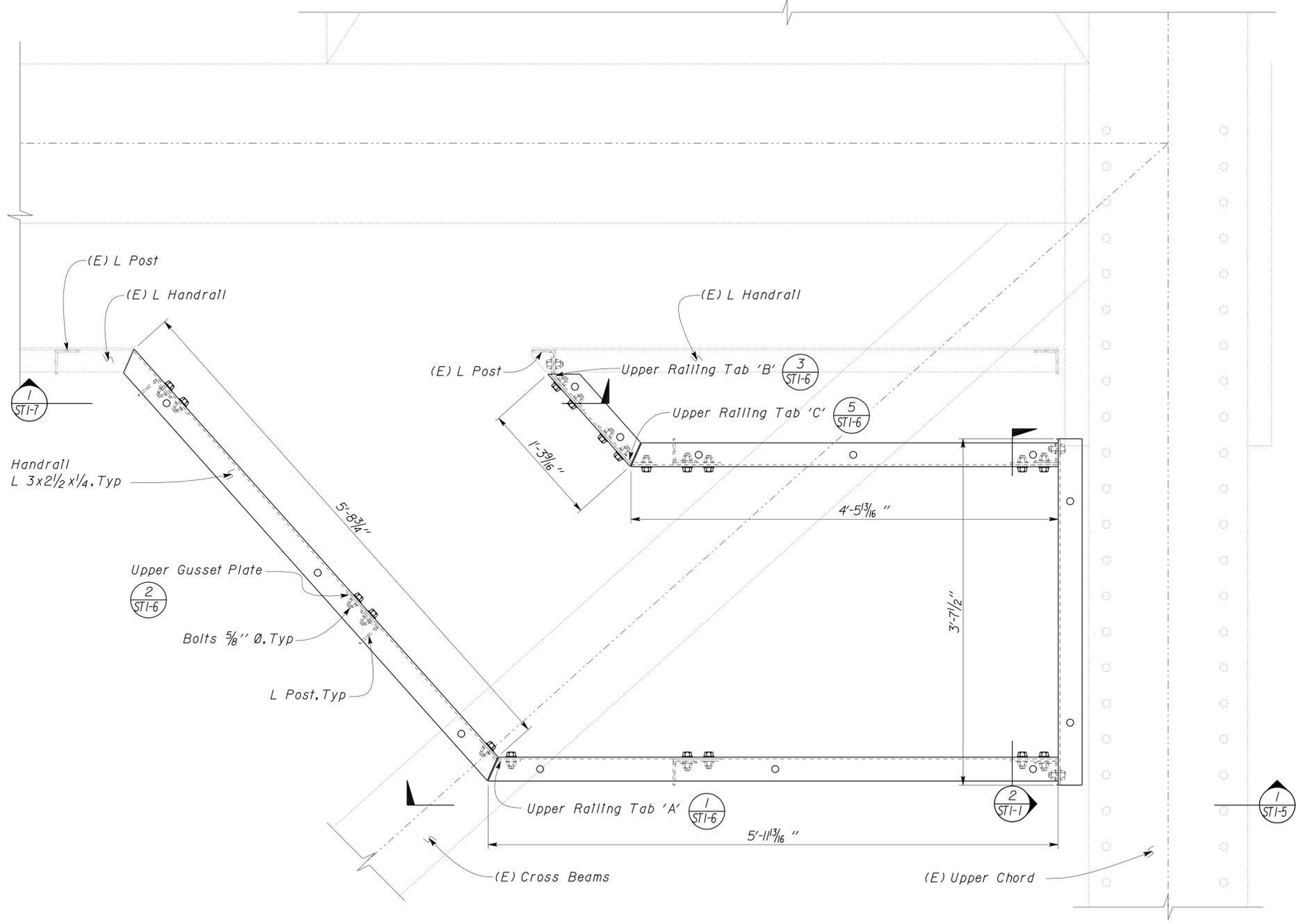
**1 Grating FRAMING PLAN**  
Scale 1 1/2" = 1'-0"  
Rotated 90°



*Note*  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b> Grating FRAMING PLAN	SHEET <b>ST1-2</b>
	DETAILS	BY David W. Good			CHECKED Robert du Plaine		
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	UNIT PROJECT NUMBER & PHASE EA 3M7501	3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	19	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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**1 HANDRAIL FRAMING PLAN**  
Scale 1 1/2" = 1'-0"  
Rotated 90°

**2 GRATING BANDING DETAIL**  
No Scale

*Note*  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b> STYLE 'A' CATWALK	<b>HANDRAIL FRAMING PLAN</b>	SHEET OF <b>ST1-3</b>
	DETAILS	BY David W. Good			CHECKED Robert du Plaine			
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	UNIT PROJECT NUMBER & PHASE 3599 03000005971		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3		08-23-10			

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	20	29

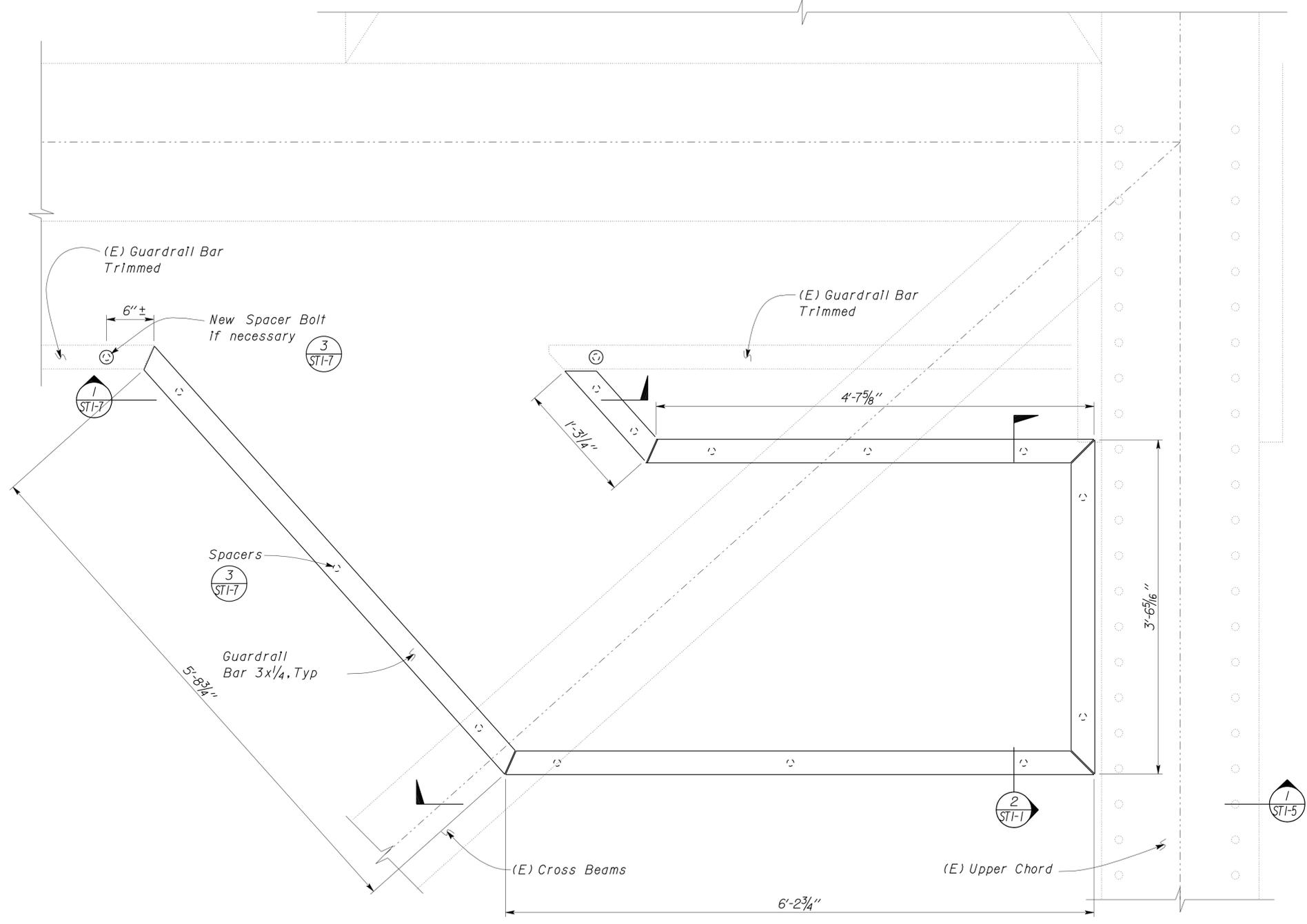
**RdP**  
REGISTERED CIVIL ENGINEER

11-11-10  
DATE

REGISTERED PROFESSIONAL ENGINEER  
 Robert du Plaine  
 No. 51447  
 Exp. 6-30-12  
 CIVIL  
 STATE OF CALIFORNIA

2-28-11  
PLANS APPROVAL DATE

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**1 GUARDRAIL FRAMING PLAN**  
Scale 1 1/2" = 1' - 0"  
Rotated 90°



*Note*  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

TAEMWW Imperial Rev. 7/10	DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b>	SHEET <b>ST1-4</b>
	DETAILS	BY David W. Good	CHECKED Robert du Plaine		ARCHITECTURAL AND STRUCTURAL DESIGN	POST MILE 13.07		STYLE 'A' CATWALK
	QUANTITIES	BY Robert du Plaine	CHECKED David W. Good					
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT PROJECT NUMBER & PHASE 3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
						08-25-10		SHEET OF

28-FEB-2011 11:16

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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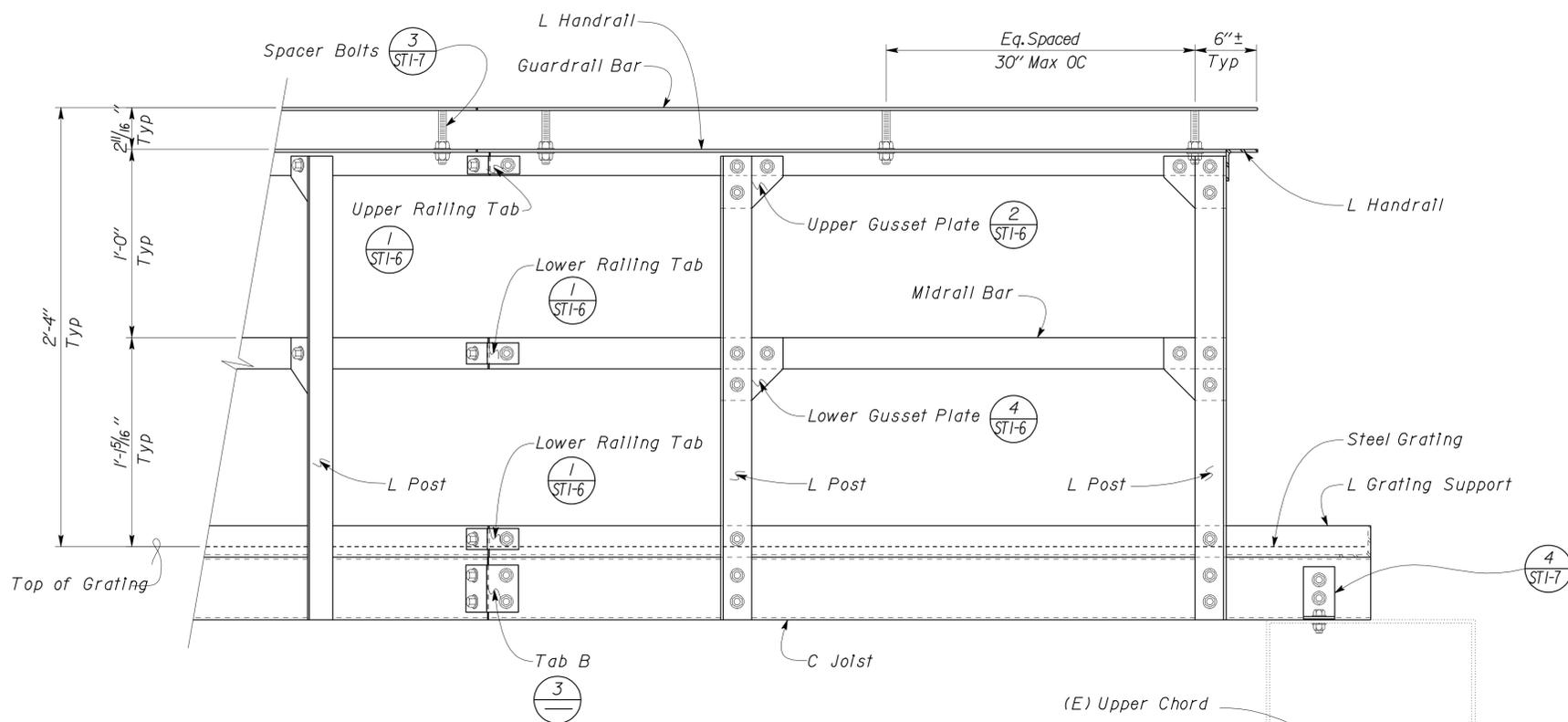
**RdP**  
REGISTERED CIVIL ENGINEER

11-11-10  
DATE

2-28-11  
PLANS APPROVAL DATE

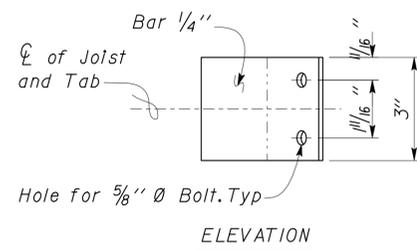
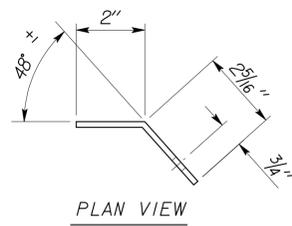
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REGISTERED PROFESSIONAL ENGINEER  
Robert du Plaine  
No. 51447  
Exp. 6-30-12  
CIVIL  
STATE OF CALIFORNIA

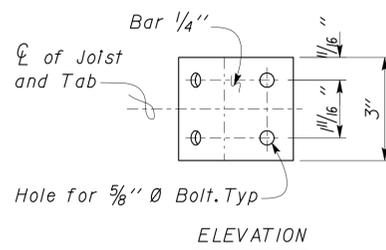
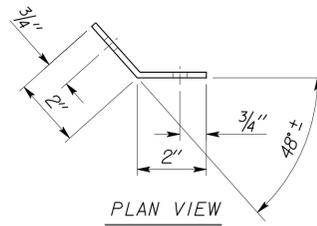


**1** TYPICAL ELEVATION  
Scale 1 1/2" = 1' - 0"

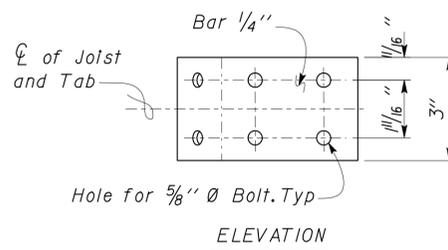
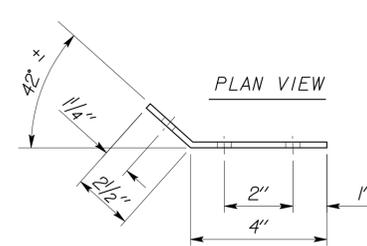
(E) Upper Chord



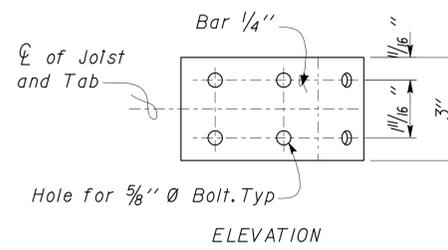
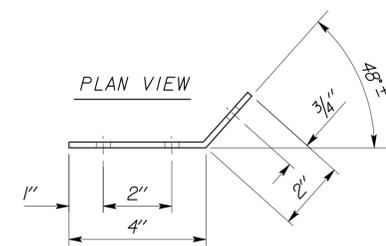
**2** TAB 'A'  
Scale 3" = 1' - 0"



**3** TAB 'B'  
Scale 3" = 1' - 0"



**4** TAB 'C'  
Scale 3" = 1' - 0"



**5** TAB 'C'  
Scale 3" = 1' - 0"

*Note*  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel
DETAILS	BY David W. Good	CHECKED Robert du Plaine
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

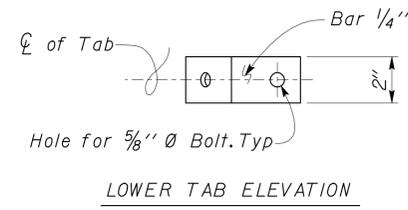
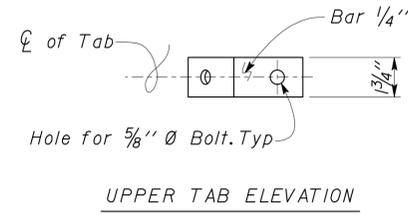
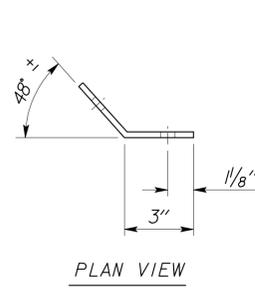
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	22-0021
POST MILE	13.07

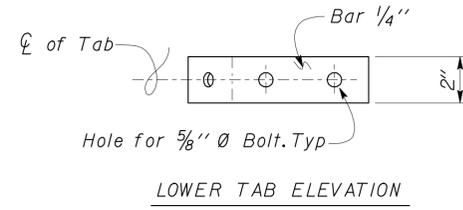
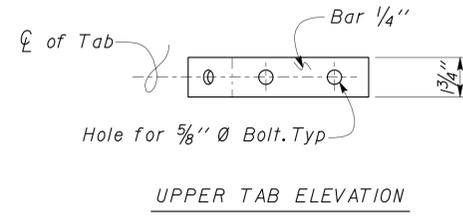
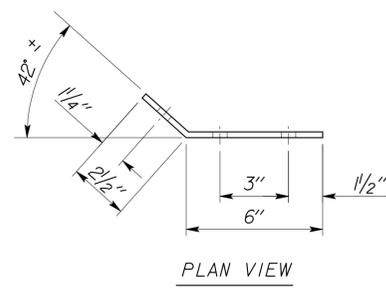
**TOWER BRIDGE CATWALK ADDITION**  
STYLE 'A' CATWALK  
ELEVATION AND FRAMING DETAILS

SHEET **ST1-5** OF

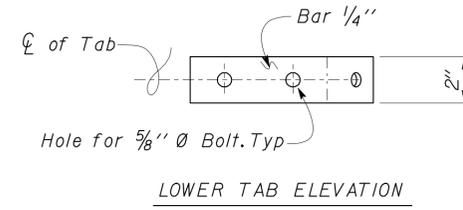
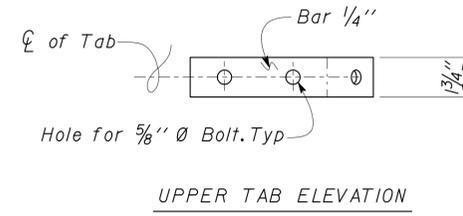
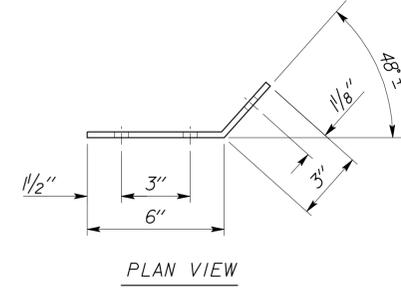
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yol	80,275	Var	22	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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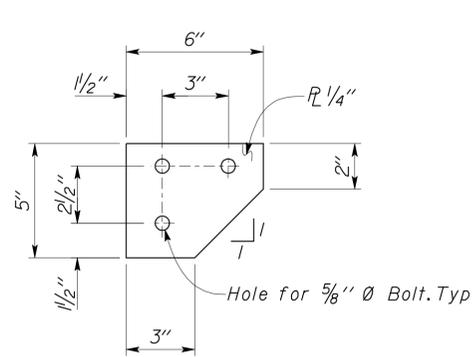
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Scale 3" = 1' - 0"



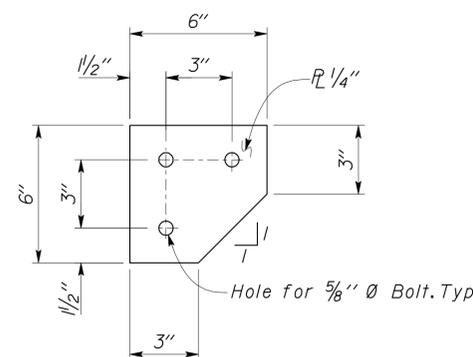
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Scale 3" = 1' - 0"



**5 RAILING TAB 'C'**  
Scale 3" = 1' - 0"



**2 UPPER GUSSET**  
Scale 3" = 1' - 0"

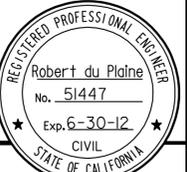


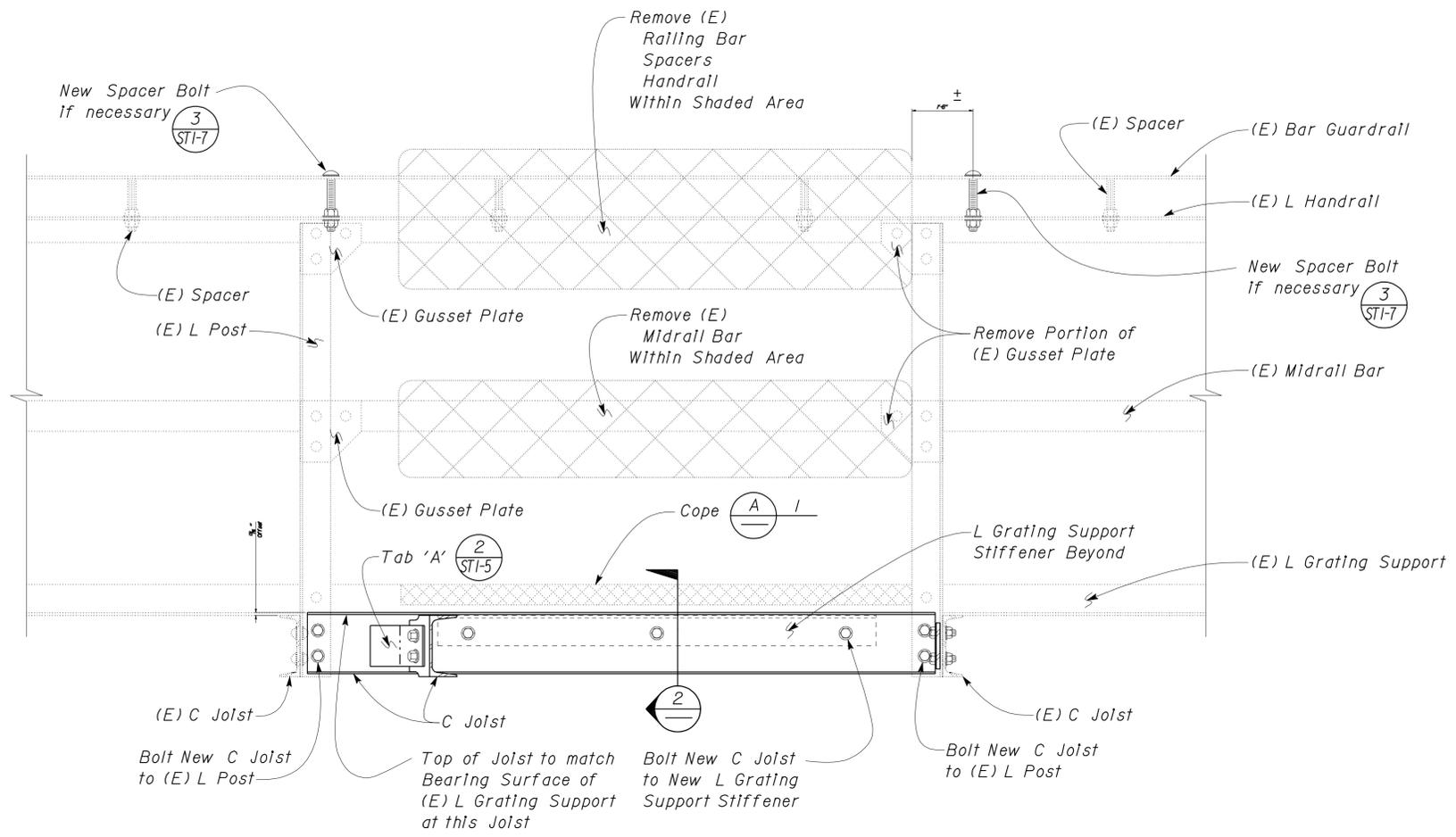
**4 LOWER GUSSET**  
Scale 3" = 1' - 0"

*Note*  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>TOWER BRIDGE CATWALK ADDITION</b>  FRAMING DETAILS	SHEET <b>ST1-6</b>	
	DETAILS	BY David W. Good			CHECKED Robert du Plaine			22-0021
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
			0 1 2 3	EA 3M7501		08-25-10		

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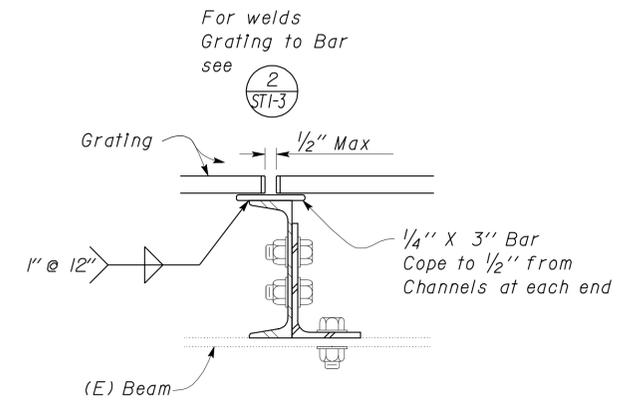
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	23	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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**1 C JOIST TO (E) CATWALK**  
Scale 1 1/2" = 1' - 0"

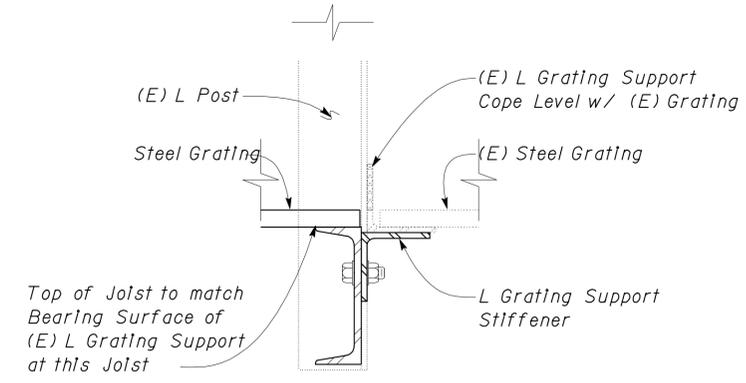
**A NOTES**

1. Cope (E) L Grating Support to top of (E) Grating at shaded area after installation of new supporting C Joist and L Stiffener.

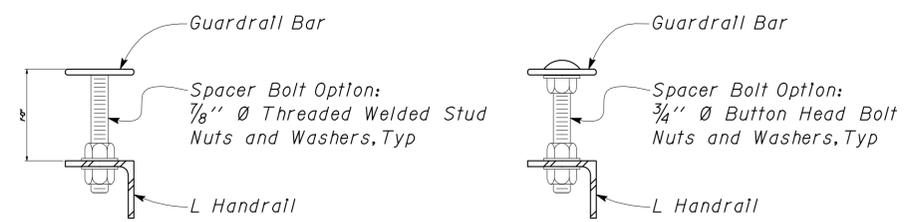


For Details not called out See **4**

**5 ANCHOR TYPE 'A'**  
Scale 3" = 1' - 0"

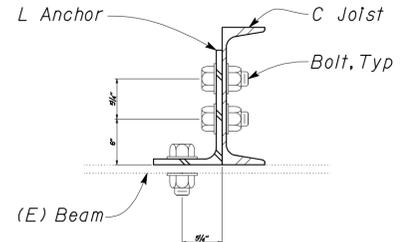


**2 JOIST TO STIFFENER**  
Scale 3" = 1' - 0"



Note: When (E) spacer bolts are removed add new bolts within 6" of the end of unsupported guardrail.

**3 SPACER BOLTS**  
Scale 3" = 1' - 0"



**4 ANCHOR TYPE 'A'**  
Scale 3" = 1' - 0"

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

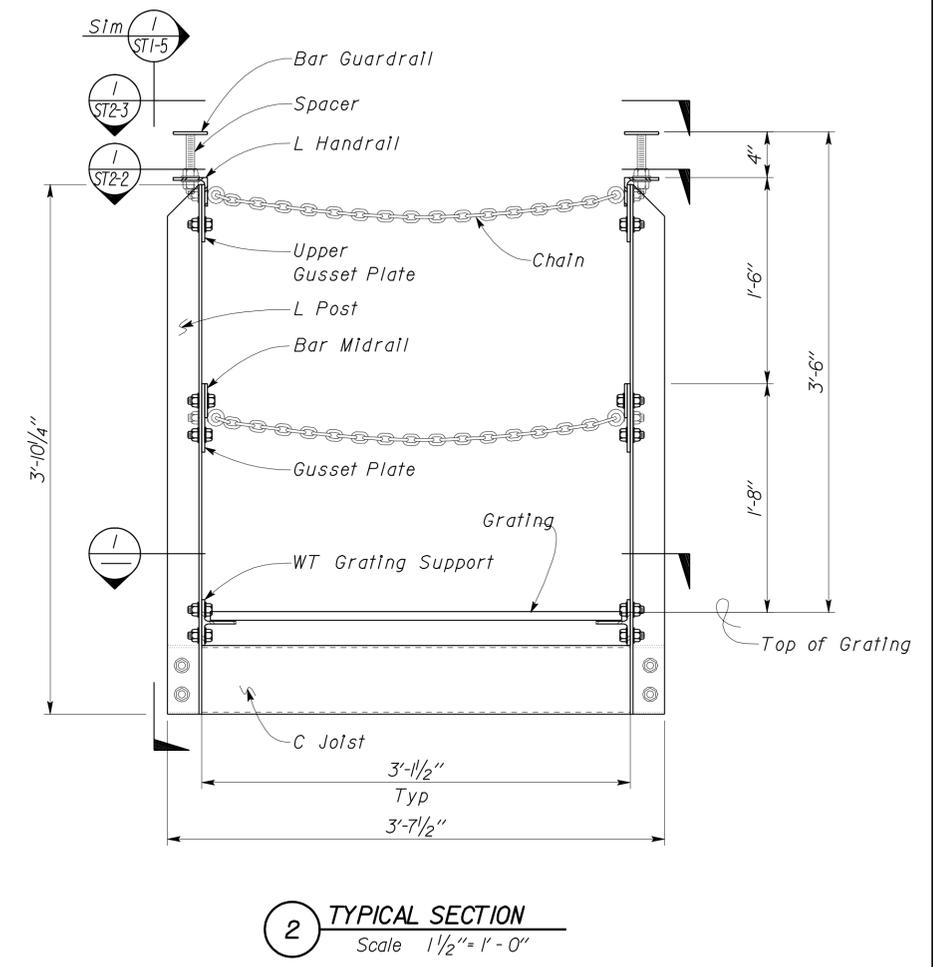
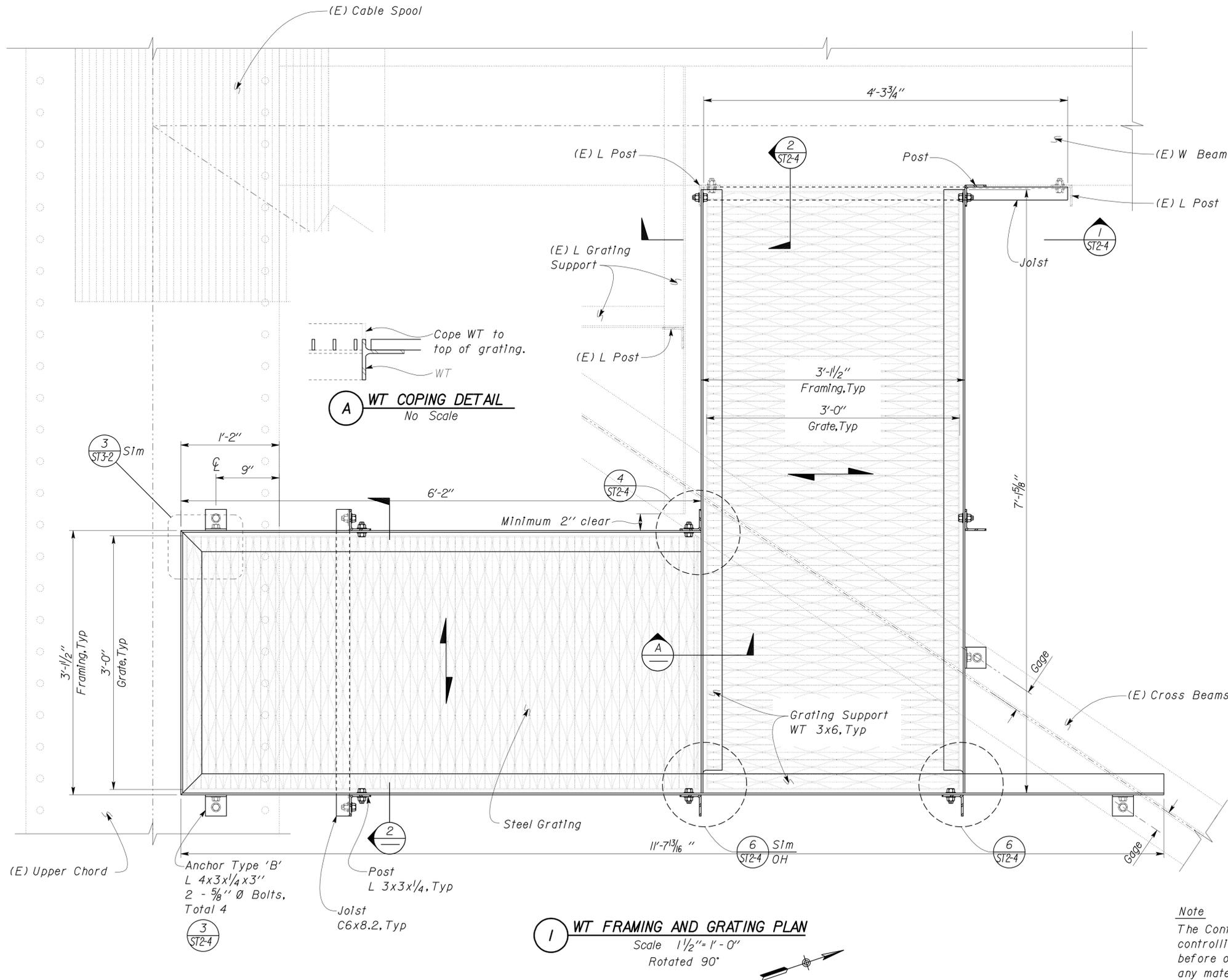
DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel
DETAILS	BY David W. Good	CHECKED Robert du Plaine
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b>	SHEET <b>ST1-7</b>
POST MILE	13.07		
STYLE 'A' CATWALK		FRAMING DETAILS	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	24	29
<b>RdP</b>			11-11-10	REGISTERED PROFESSIONAL ENGINEER Robert du Plaine No. 51447 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA	
REGISTERED CIVIL ENGINEER			DATE		
2-28-11			PLANS APPROVAL DATE		
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For information not shown, see  $\frac{1}{ST1-5}$  Sim

**Note**  
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**1 WT FRAMING AND GRATING PLAN**  
Scale 1 1/2" = 1'-0"  
Rotated 90°

**2 TYPICAL SECTION**  
Scale 1 1/2" = 1'-0"

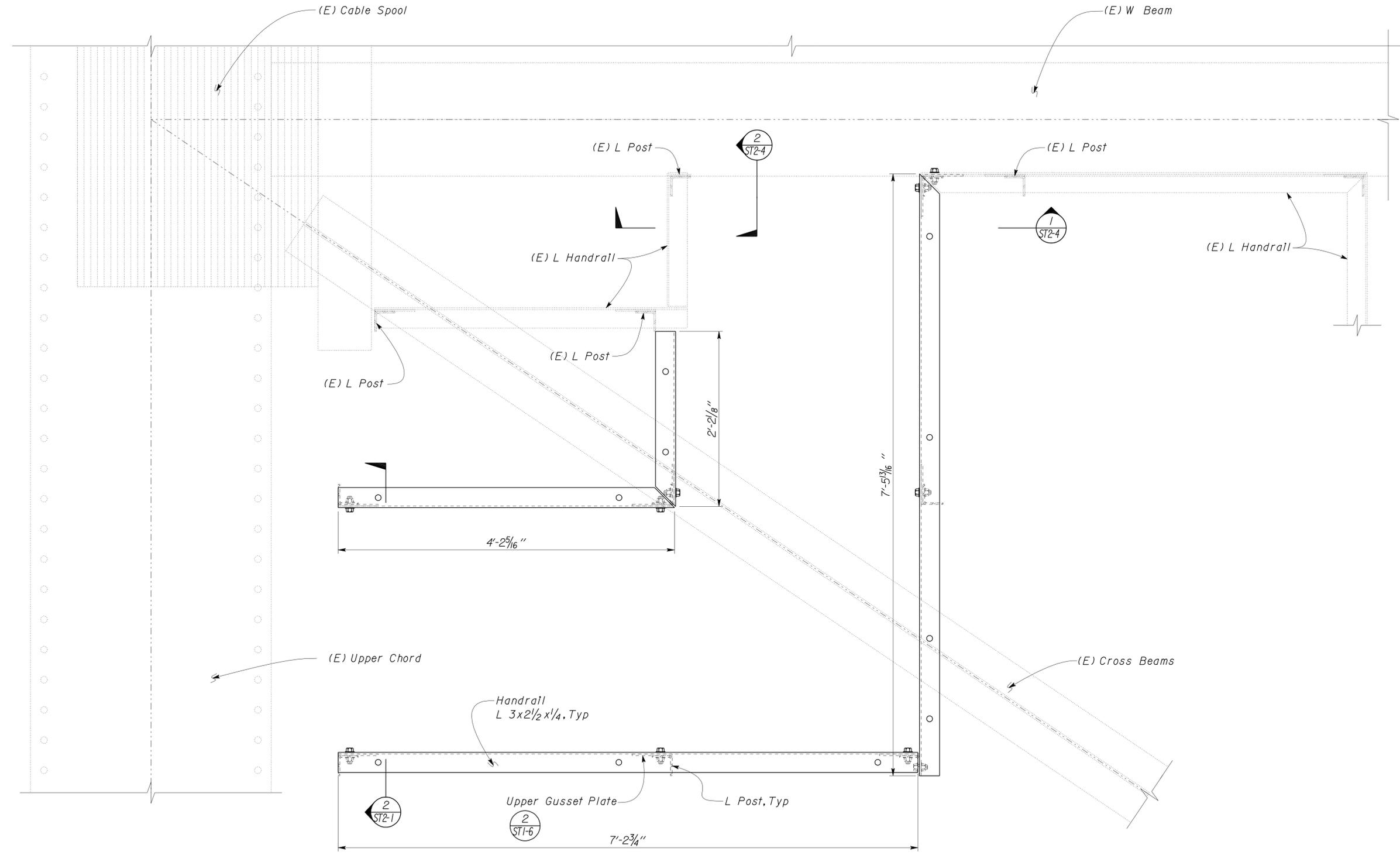
DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b>	SHEET <b>ST2-1</b>
	DETAILS	BY David W. Good			CHECKED Robert du Plaine		
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	UNIT PROJECT NUMBER & PHASE EA 3M7501	3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3		08-25-10		

TAEMWW Imperial Rev. 7/10

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DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yolo	80,275	Var	25	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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**1 HANDRAIL FRAMING PLAN**  
 Scale 1 1/2" = 1'-0"  
 Rotated 90°

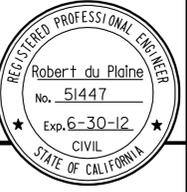
*Note*  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

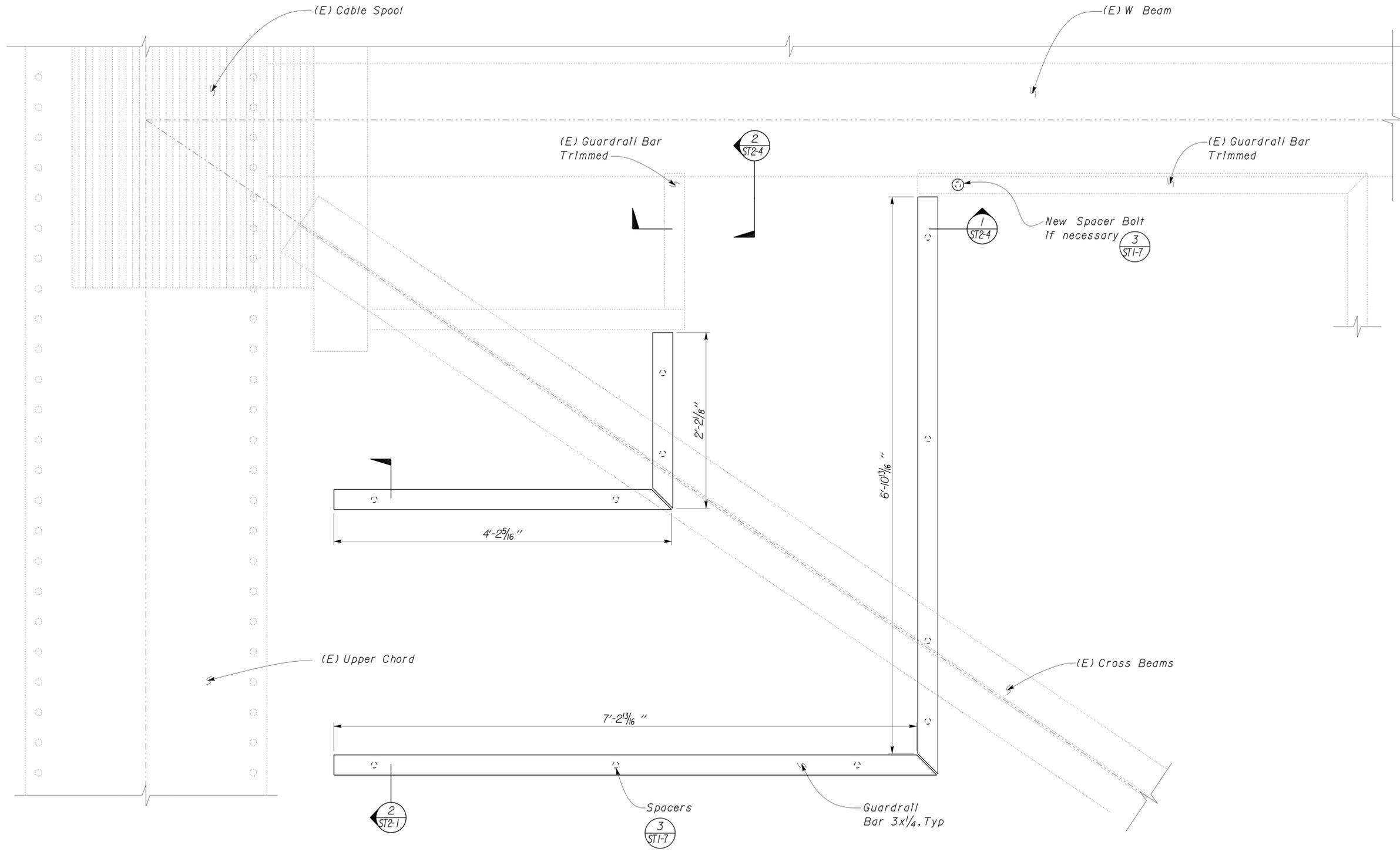
DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO.	<b>TOWER BRIDGE CATWALK ADDITION</b>  HANDRAIL FRAMING PLAN	SHEET <b>ST2-2</b>
	DETAILS	BY David W. Good			CHECKED Robert du Plaine		
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	PROJECT NUMBER & PHASE 3599 03000005971		POST MILE 13.07	REVISION DATES (PRELIMINARY STAGE ONLY)	OF
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			UNIT PROJECT NUMBER & PHASE 3599 03000005971		DISREGARD PRINTS BEARING EARLIER REVISION DATES	08-23-10	

TAEMWW Imperial Rev. 7/10

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28-FEB-2011 10:38

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yo1	80, 275	Var	26	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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**1 GUARDRAIL FRAMING PLAN**  
 Scale 1 1/2" = 1'-0"  
 Rotated 90°

*Note*  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

TAEMWW Imperial Rev. 7/10	DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO.	<b>TOWER BRIDGE CATWALK ADDITION</b>	SHEET
	DETAILS	BY David W. Good	CHECKED Robert du Plaine		ARCHITECTURAL AND STRUCTURAL DESIGN	22-0021		STYLE 'B' CATWALK
	QUANTITIES	BY Robert du Plaine	CHECKED David W. Good		POST MILE	13.07	GUARDRAIL FRAMING PLAN	ST2-3
				ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT PROJECT NUMBER & PHASE	3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)
				0 1 2 3			08-25-10	

28-FEB-2011 10:55

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yo	80, 275	Var	27	29

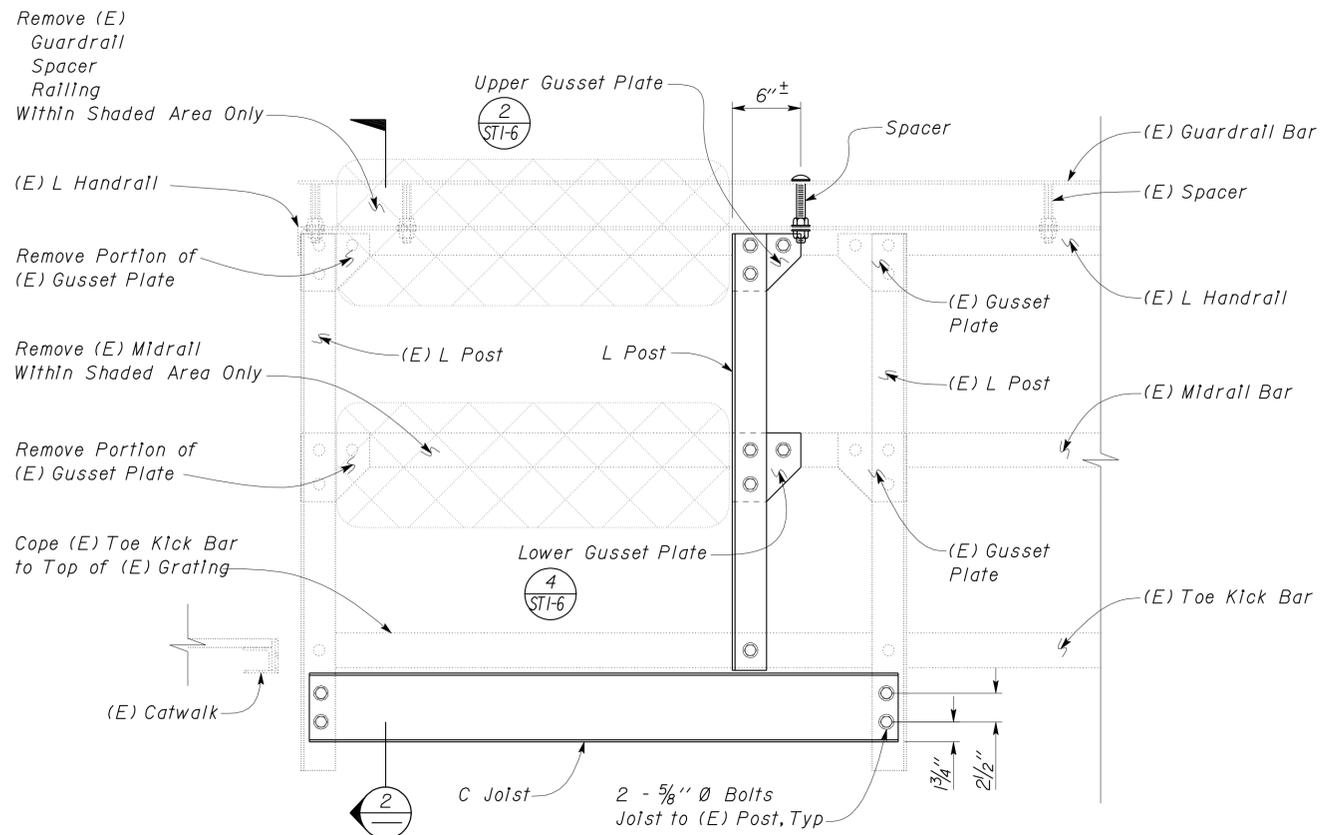
**RdP**  
REGISTERED CIVIL ENGINEER

11-11-10  
DATE

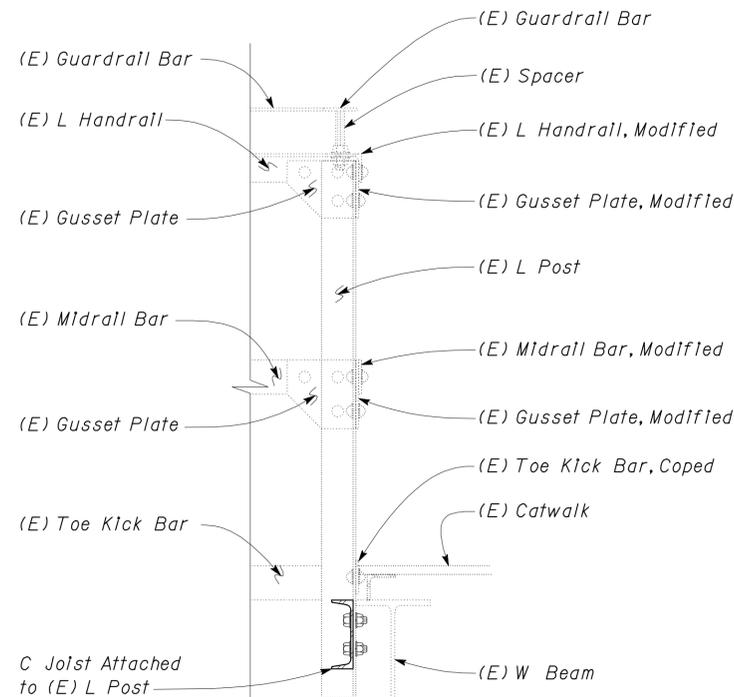
2-28-11  
PLANS APPROVAL DATE

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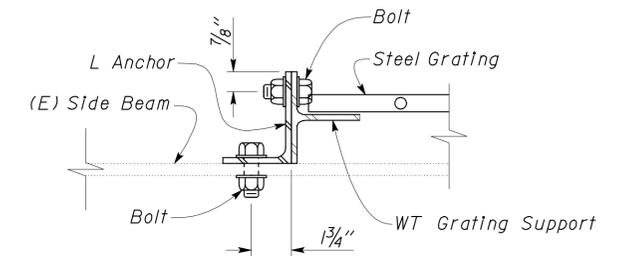
REGISTERED PROFESSIONAL ENGINEER  
Robert du Plaine  
No. 51447  
Exp. 6-30-12  
CIVIL  
STATE OF CALIFORNIA



**1 ASSEMBLY DETAIL**  
Scale 1/2" = 1' - 0"

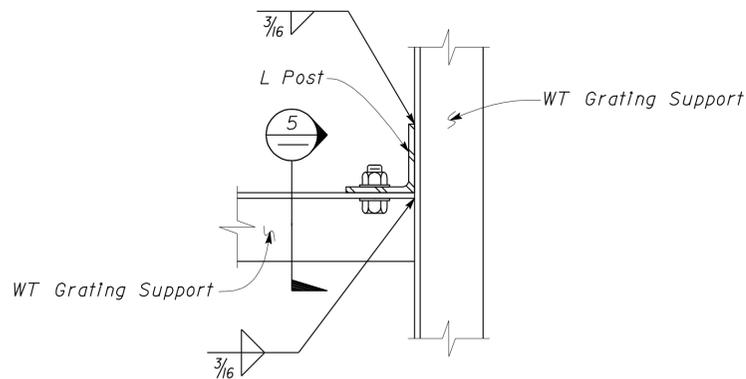


**2 JOIST TO POST ASSEMBLY**  
Scale 1/2" = 1' - 0"

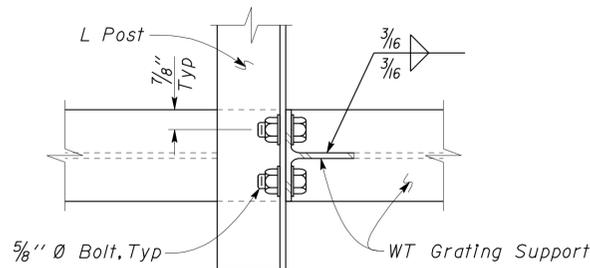


**3 ANCHOR TYPE 'B'**  
Scale 3" = 1' - 0"

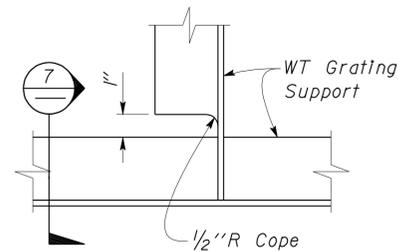
**Note**  
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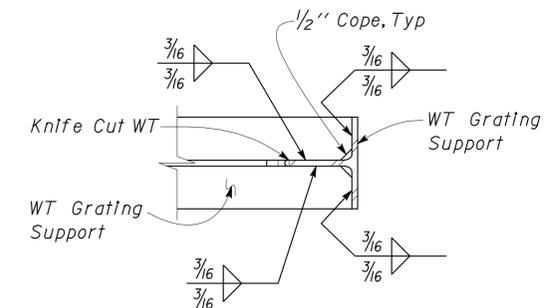
**4 WT TO WT BLUNT CONNECTION**  
Scale 3" = 1' - 0"



**5 WT TO WT BLUNT CONNECTION**  
Scale 3" = 1' - 0"



**6 WT TO WT KNIFE CONNECTION**  
Scale 3" = 1' - 0"



**7 WT TO WT KNIFE CONNECTION**  
Scale 3" = 1' - 0"

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel
DETAILS	BY David W. Good	CHECKED Robert du Plaine
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

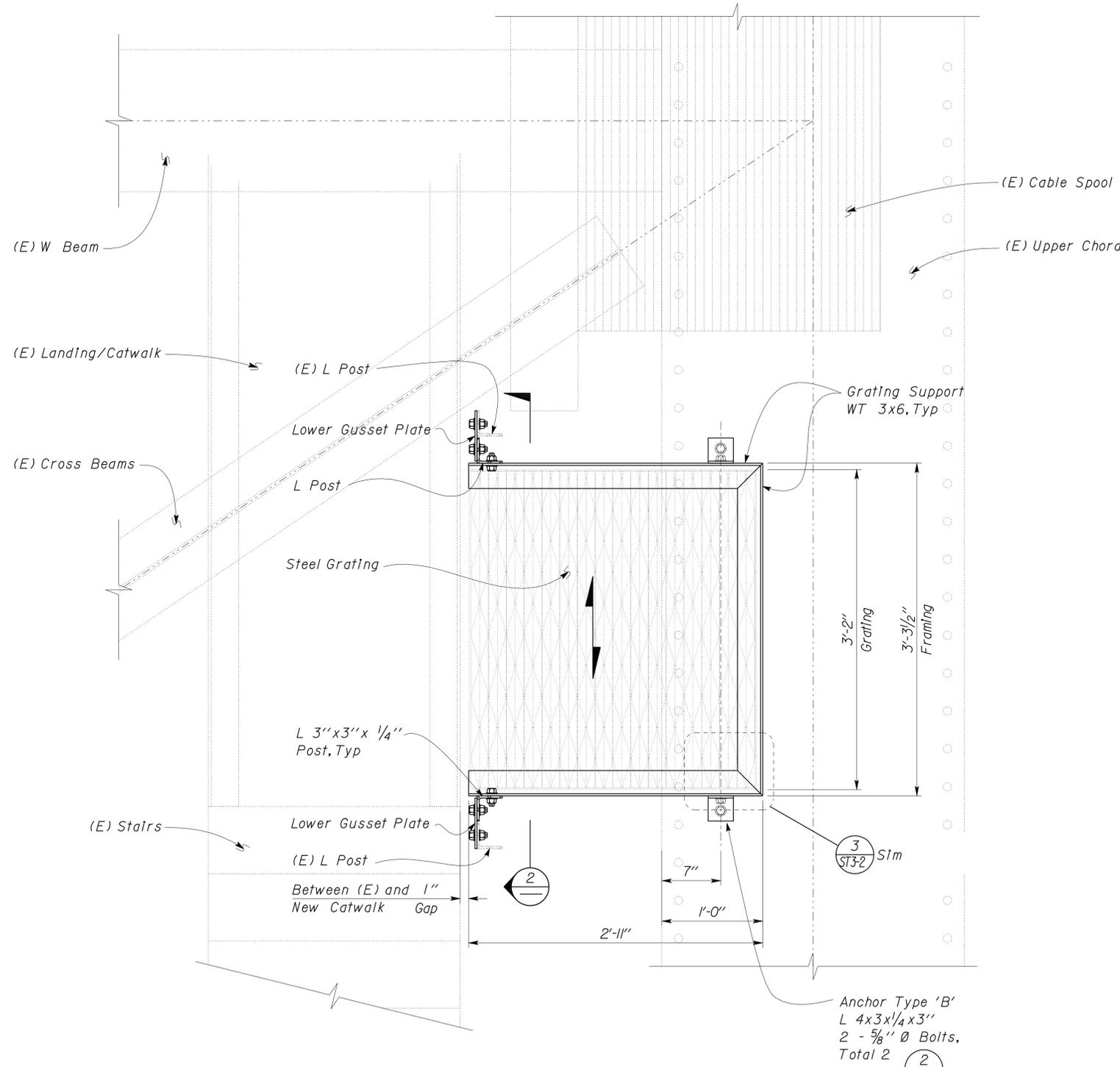
DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	22-0021
POST MILE	13.07

**TOWER BRIDGE CATWALK ADDITION**  
STYLE 'B' CATWALK  
**FRAMING DETAILS**

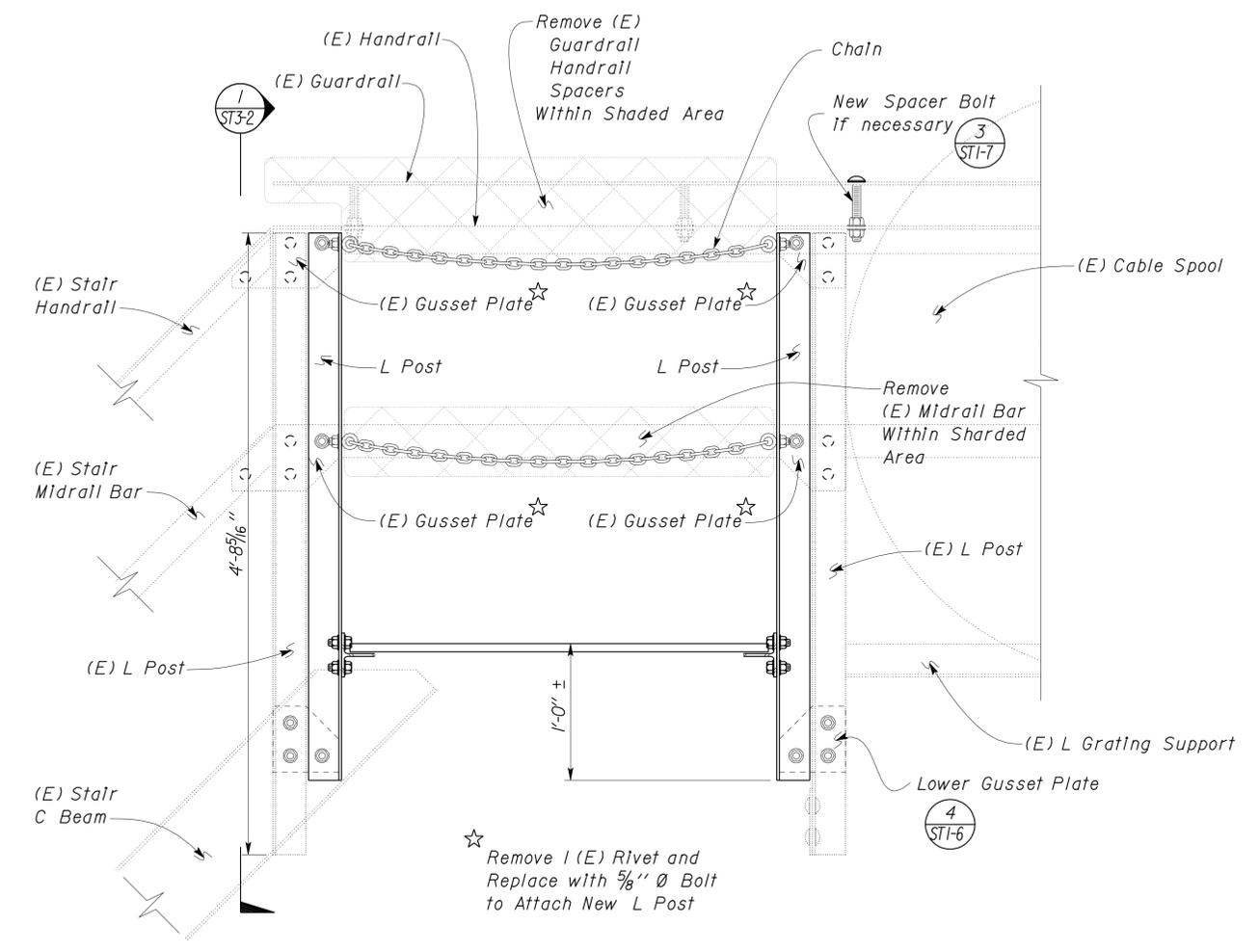
SHEET **ST2-4**

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yo	80, 275	Var	28	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11					
PLANS APPROVAL DATE					
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**1 GRATING FRAMING PLAN**  
Scale 1 1/2" = 1' - 0"  
Rotated 90°

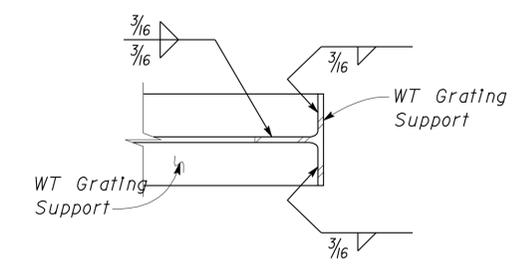
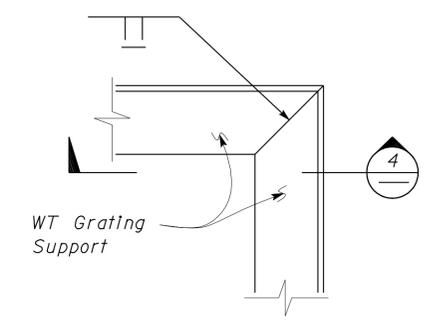
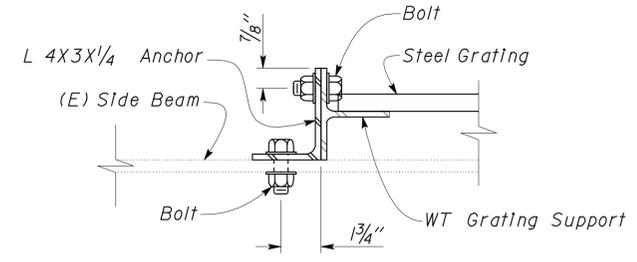
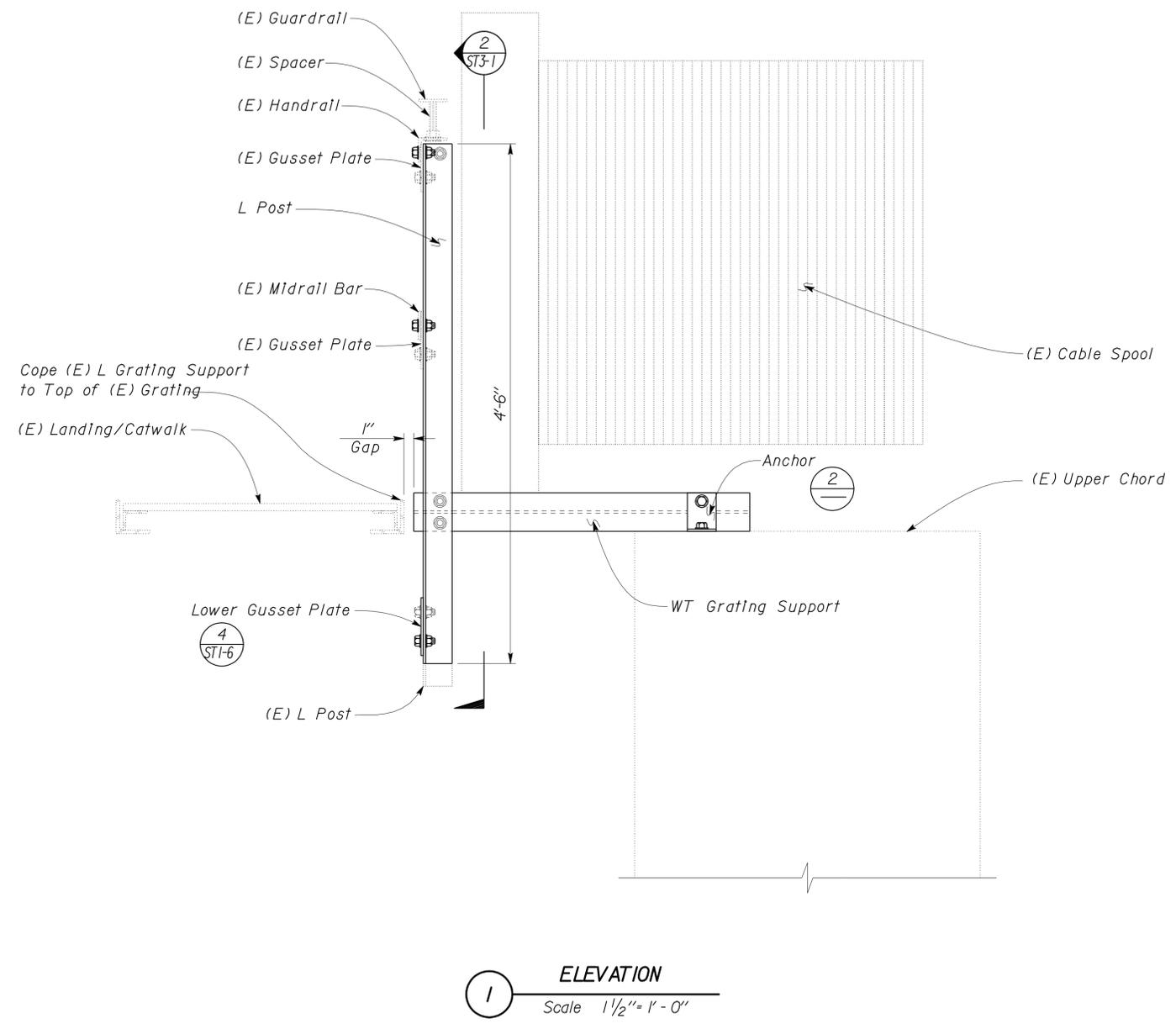
**Note**  
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**2 SECTION**  
Scale 1 1/2" = 1' - 0"

DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel	<b>STATE OF CALIFORNIA</b>	DIVISION OF ENGINEERING SERVICES ARCHITECTURAL AND STRUCTURAL DESIGN	BRIDGE NO. 22-0021	<b>TOWER BRIDGE CATWALK ADDITION</b>	SHEET ST3-1
	DETAILS	BY David W. Good			CHECKED Robert du Plaine		POST MILE 13.07
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good	DEPARTMENT OF TRANSPORTATION	UNIT PROJECT NUMBER & PHASE 3599 03000005971	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	08-23-10
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0 1 2 3	EA 3M7501		P:\d1st_03\0300000597_Tower_Br_Platform\struc\EXPEDITE_FILES\st03_01.dgn	

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac, Yo	80,275	Var	29	29
<b>RdP</b>			11-11-10		
REGISTERED CIVIL ENGINEER			DATE		
2-28-11				PLANS APPROVAL DATE	
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**Note**  
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DESIGN	BY Robert du Plaine	CHECKED Sean R. Samuel
DETAILS	BY David W. Good	CHECKED Robert du Plaine
QUANTITIES	BY Robert du Plaine	CHECKED David W. Good

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
ARCHITECTURAL AND STRUCTURAL DESIGN

BRIDGE NO.	22-0021	TOWER BRIDGE CATWALK ADDITION	ELEVATION AND FRAMING DETAILS
POST MILE	13.07		
STYLE 'C' CATWALK			

SHEET **ST3-2** OF