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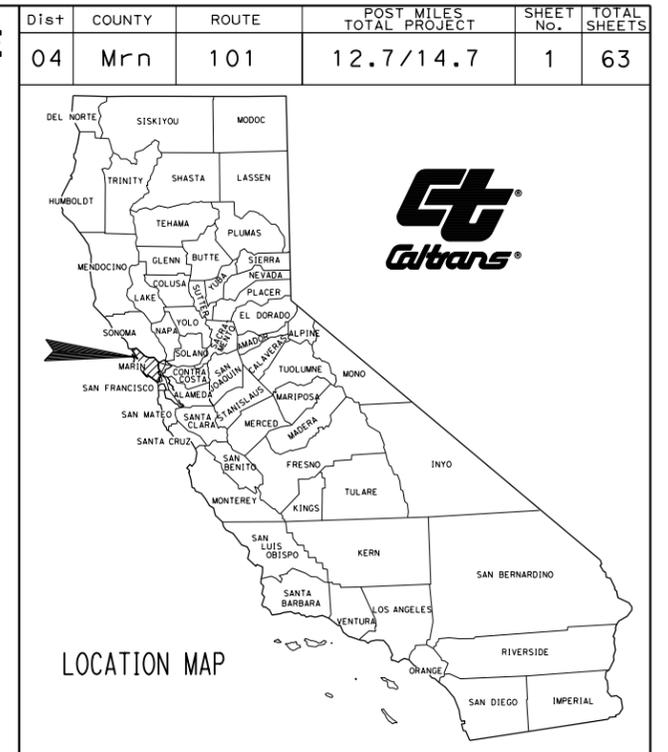
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

LOCATIONS OF CONSTRUCTION

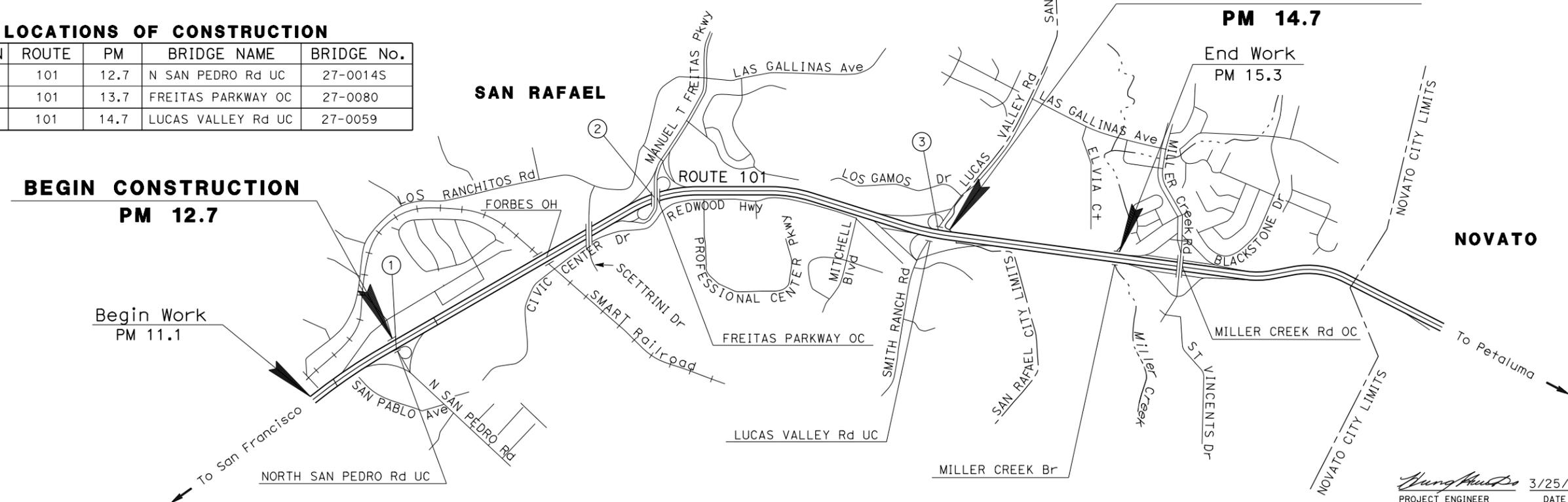
LOCATION	ROUTE	PM	BRIDGE NAME	BRIDGE No.
①	101	12.7	N SAN PEDRO Rd UC	27-0014S
②	101	13.7	FREITAS PARKWAY OC	27-0080
③	101	14.7	LUCAS VALLEY Rd UC	27-0059

STATE OF CALIFORNIA **ACNHPG-Q101(284)E**  
**DEPARTMENT OF TRANSPORTATION**  
**PROJECT PLANS FOR CONSTRUCTION ON**  
**STATE HIGHWAY**  
**IN MARIN COUNTY**  
**IN SAN RAFAEL**  
**AT VARIOUS LOCATIONS**  
**FROM NORTH SAN PEDRO ROAD UNDERCROSSING**  
**TO LUCAS VALLEY ROAD UNDERCROSSING**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



**MARIN COUNTY**



**3 REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

NO SCALE

*Hung H. Do* 3/25/15  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

April 27, 2015  
 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.



CONTRACT No.	<b>04-4A0004</b>
PROJECT ID	<b>0412000117</b>

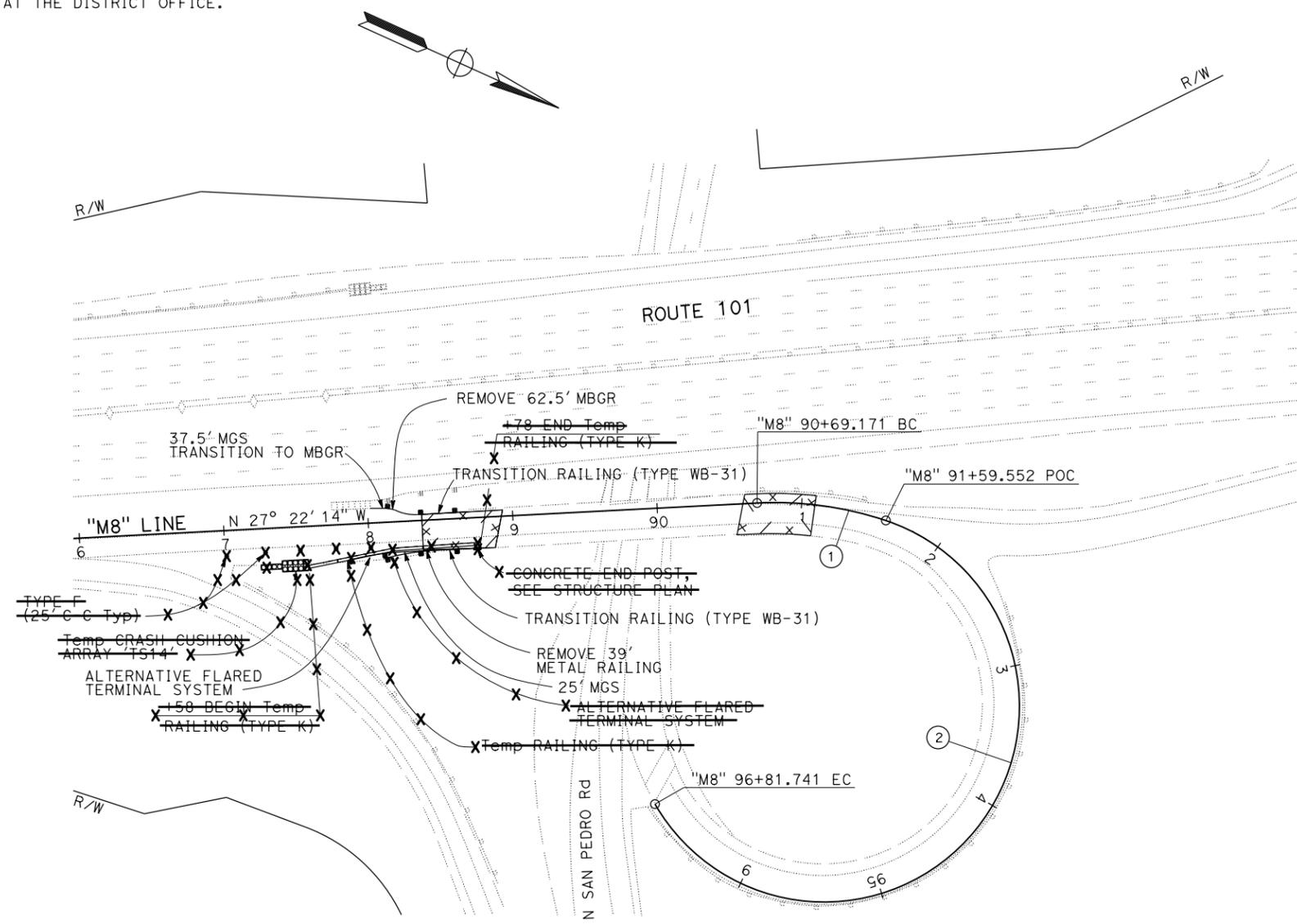
PROJECT MANAGER: WAJAHAT NYAZ  
 DESIGN MANAGER: GORDON W. JEONG

DATE PLOTTED => 18-DEC-2015 TIME PLOTTED => 11:07  
 LAST REVISION 04-24-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** DESIGN

FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
 CHECKED BY: HUNG H. DO  
 REVISIONS: HD 3/25/15

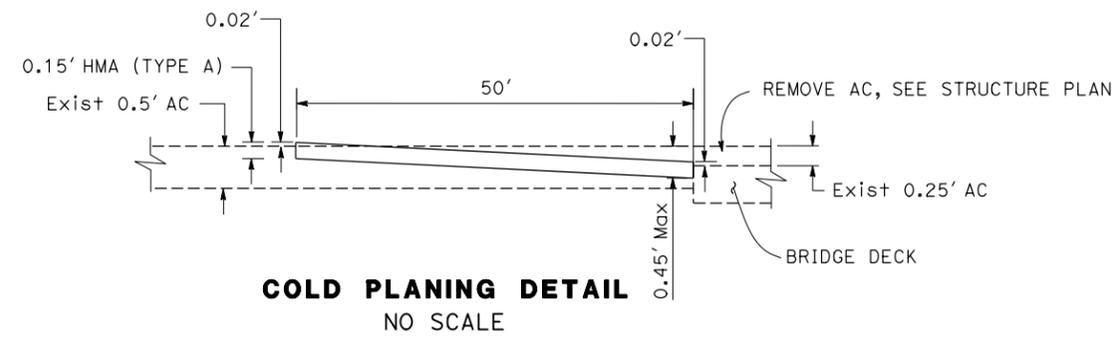
**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT  
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**SAN RAFAEL**

**CURVE DATA**

No. @	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	242'	21° 23' 43"	45.72'	90.37'	2191048.52	5976364.98
2	135'	221° 36' 27"	355.32'	522.15'	2191037.85	5976258.51



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	12.7/14.7	2	63

Hung H. Do  
 REGISTERED CIVIL ENGINEER DATE 11/6/15  
 4-27-15  
 PLANS APPROVAL DATE

Hung H. Do  
 No. 55485  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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

**LEGEND:**

COLD PLANE AC AND 0.15' HMA (TYPE A)

TEMPORARY DELINEATOR (CLASS 1)

**3** REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015

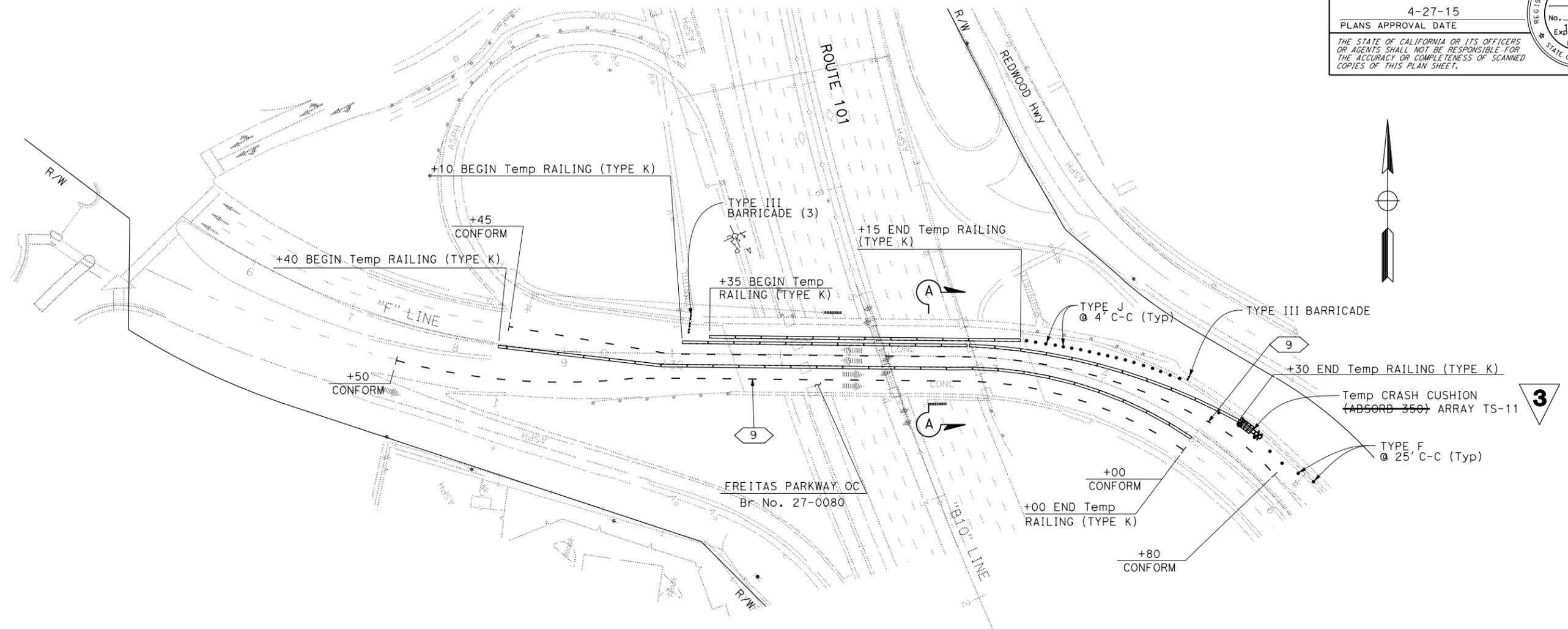
**LAYOUT (LOCATION 1)**  
 SCALE: 1" = 50'

**L-1**

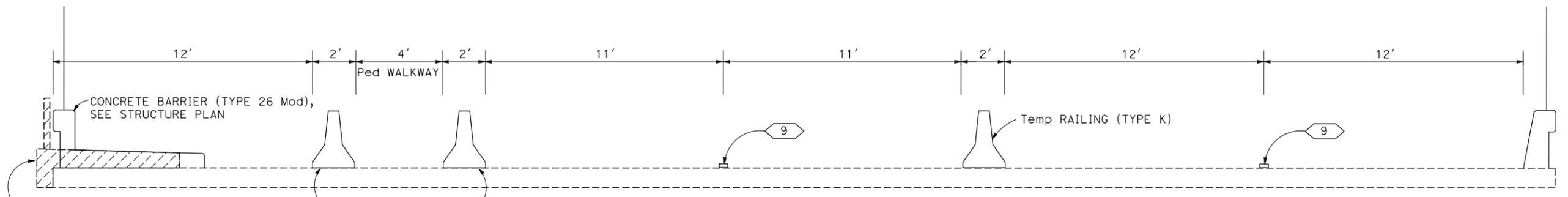
DATE PLOTTED => 18-DEC-2015 TIME PLOTTED => 11:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mirn	101	12.7/14.7	13	63
Hung H. Do			3-25-15	DATE	
REGISTERED CIVIL ENGINEER			PLANS APPROVAL DATE		
4-27-15			DATE		
Hung H. Do			No. 55485		
Exp. 2-31-16			CIVIL		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE:  
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RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



**3 REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**



**STAGE CONSTRUCTION PLAN  
(LOCATION 2 - STAGE 2)**

SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

FOR NOTES AND LEGEND,  
SEE SHEET SC-1

**SC-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
TIM LE: HUNG H. DO  
REVISOR: HD  
DATE REVISOR: 3/25/15  
CALCULATED/DESIGNED BY: CHECKED BY:  
CIVIL

DATE PLOTTED => 18-DEC-2015  
TIME PLOTTED => 11:07  
LAST REVISION 04-24-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	12.7/14.7	14	63

<i>Hung H. Do</i>	3/25/15
REGISTERED CIVIL ENGINEER	DATE
4-27-15	
PLANS APPROVAL DATE	

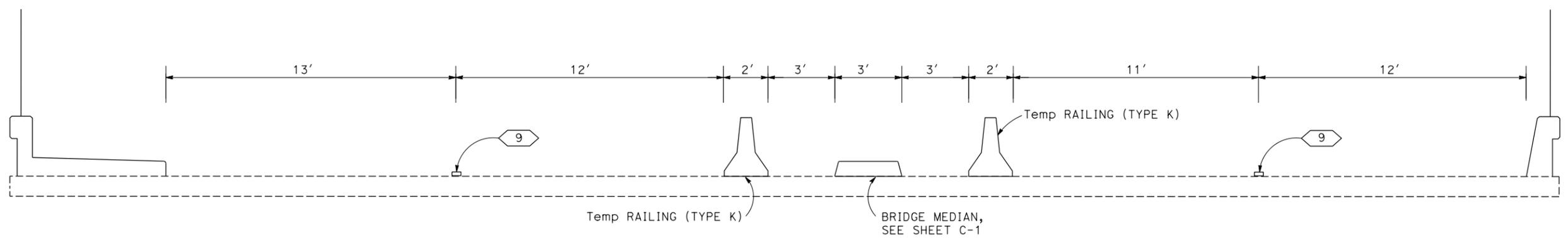
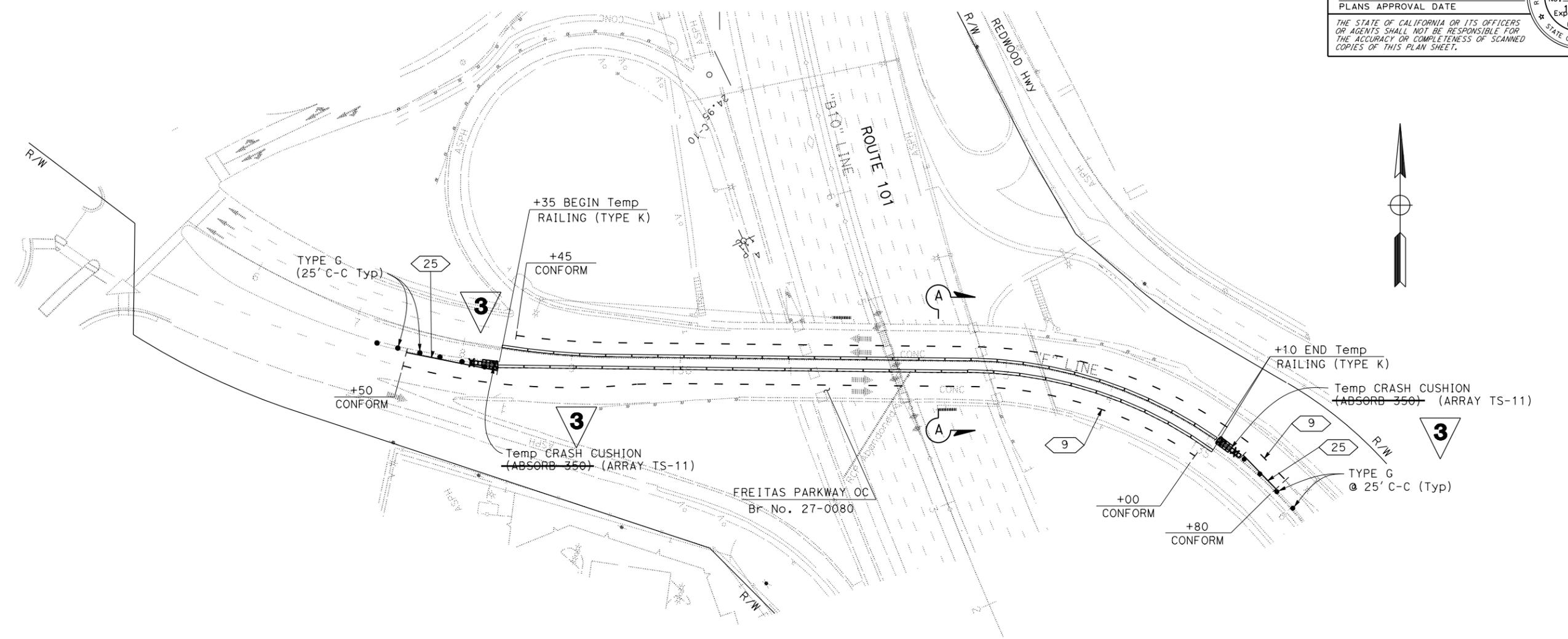
  

Hung H. Do
No. 55485
Exp. 2-31-16
CIVIL
STATE OF CALIFORNIA

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	TIM LE	REVISOR	DATE
<b>Caltrans</b>	GORDON W. JEONG		HUNG H. DO	3/25/15	
<b>DESIGN</b>					



**3** REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015  
APPROVED FOR STAGE CONSTRUCTION WORK ONLY

**STAGE CONSTRUCTION PLAN  
(LOCATION 2 - STAGE 3)**

SCALE: 1" = 50'

FOR NOTES AND LEGEND,  
SEE SHEET SC-1

**SC-3**

DATE PLOTTED => 18-DEC-2015  
TIME PLOTTED => 11:07  
LAST REVISION  
04-24-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**DESIGN**

FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
 CHECKED BY: HUNG H. DO  
 REVISIONS: 3/25/15

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

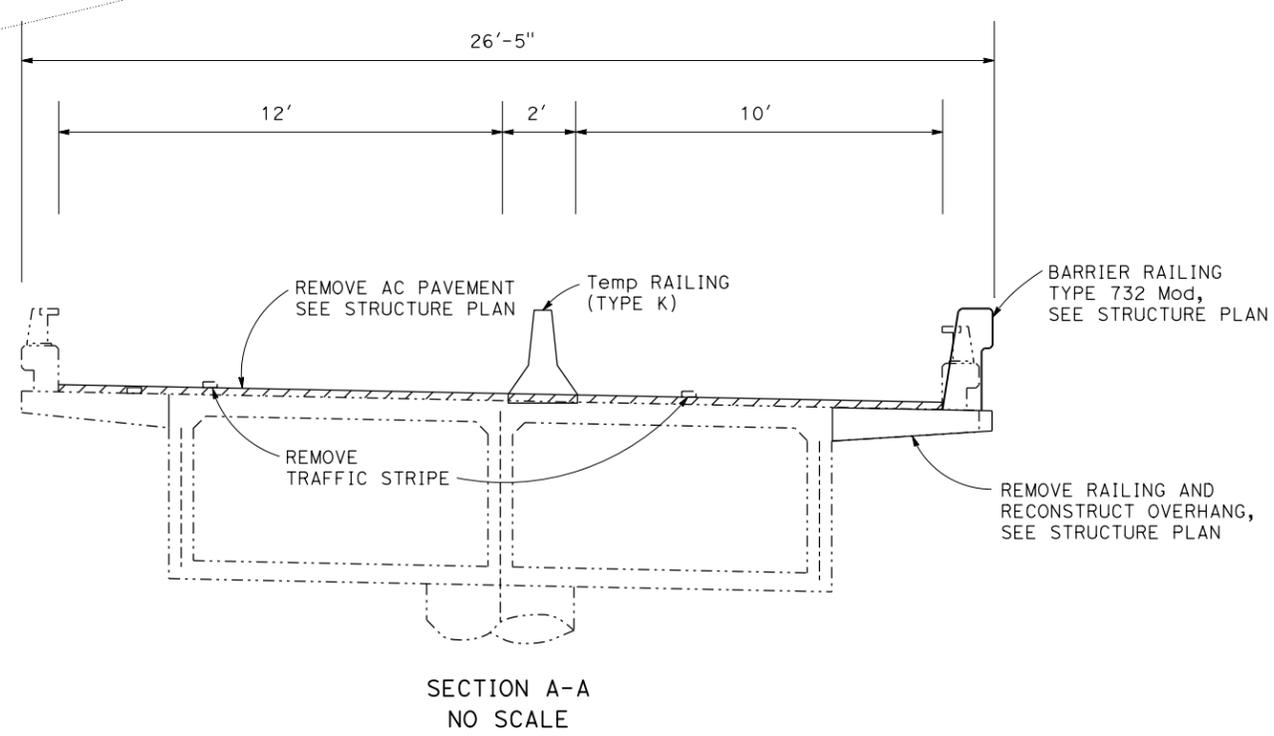
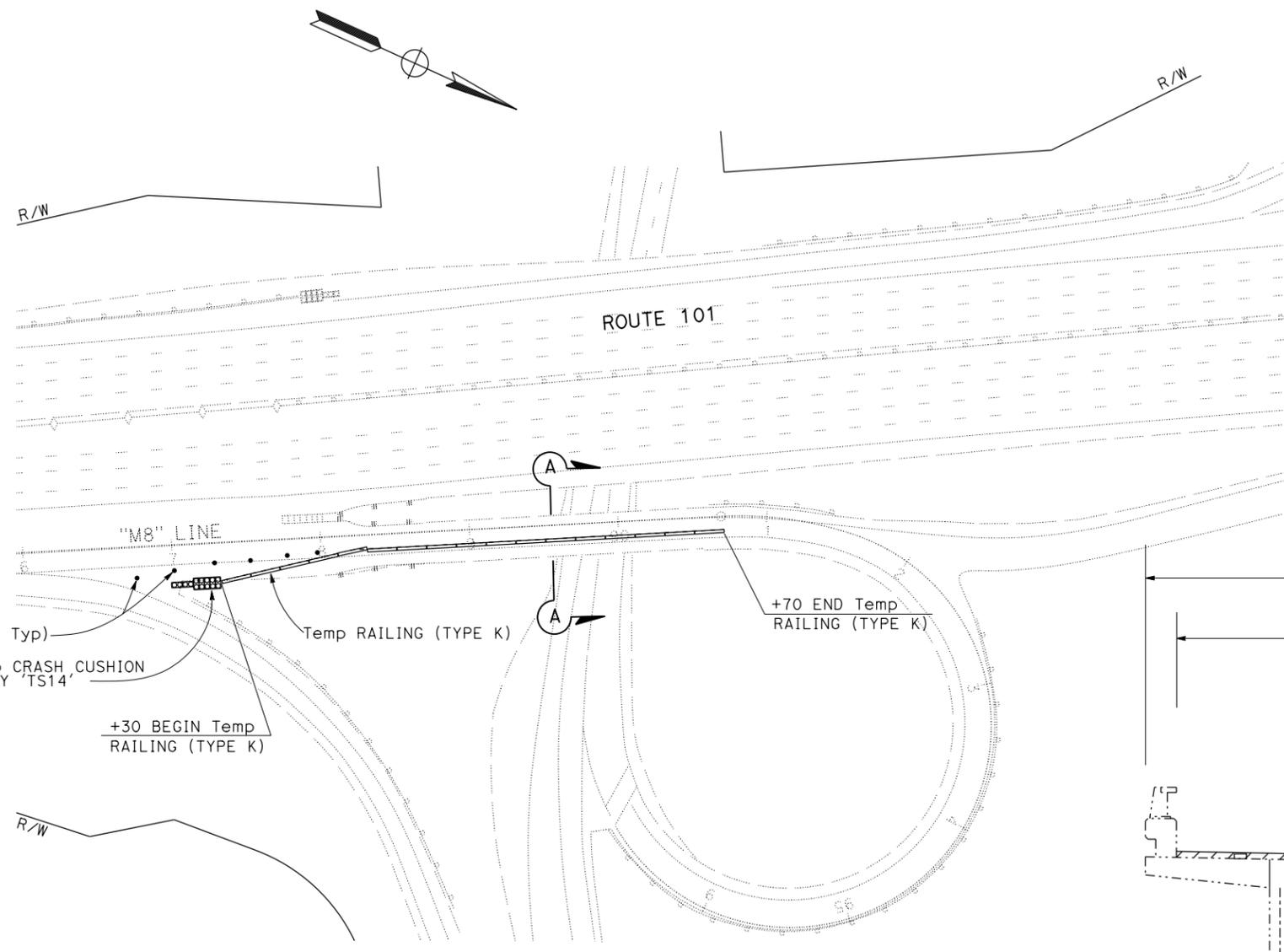
**3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	12.7/14.7	14A	63

Hung H. Do 11/6/15  
 REGISTERED CIVIL ENGINEER DATE  
 4-27-15  
 PLANS APPROVAL DATE

Hung H. Do  
 No. 55485  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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**S A N R A F A E L**

**3** ADDED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015

**STAGE CONSTRUCTION PLAN**  
**(LOCATION 1 - STAGE 1)**  
 SCALE: 1" = 50'

FOR NOTES AND LEGEND,  
 SEE SHEET SC-1

**SC-4**

DATE PLOTTED => 18-DEC-2015 TIME PLOTTED => 11:07  
 LAST REVISION 04-24-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**DESIGN**

FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
 CHECKED BY: HUNG H. DO  
 REVISIONS: 3

DATE PLOTTED => 18-DEC-2015  
 TIME PLOTTED => 11:07

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

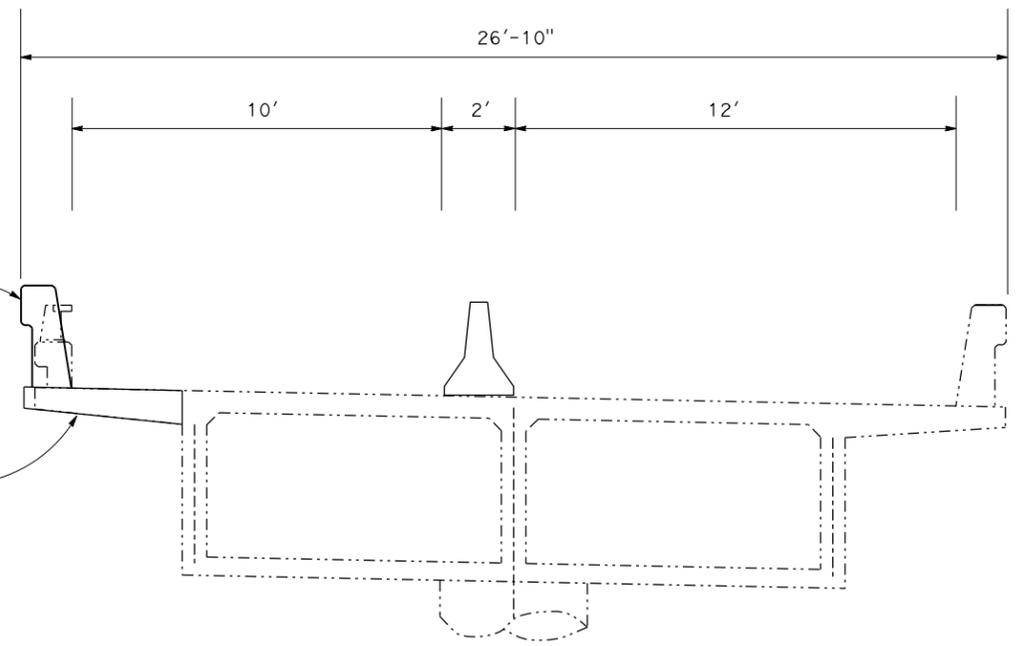
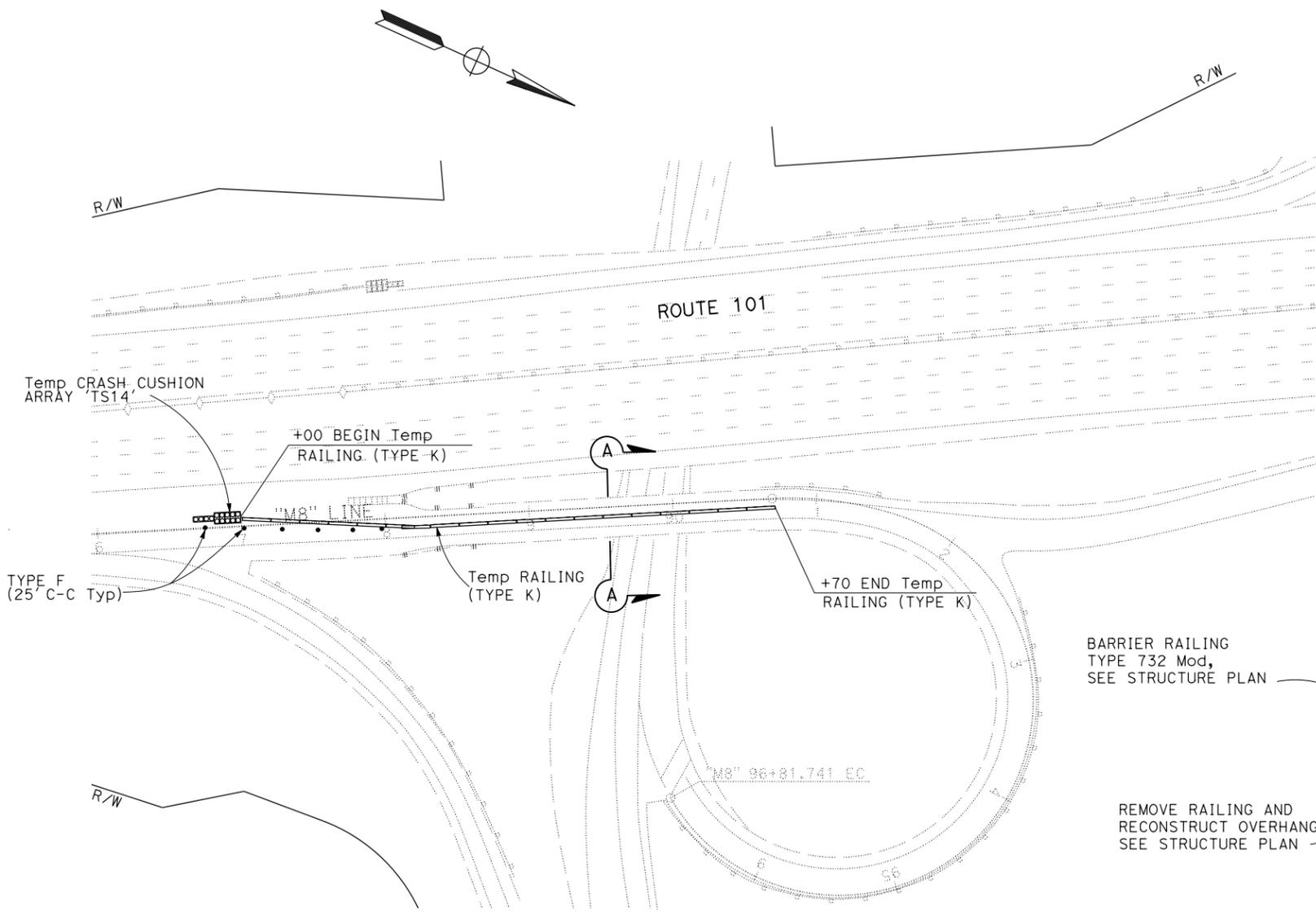
3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	12.7/14.7	14B	63

Hung H. Do 11/6/15  
 REGISTERED CIVIL ENGINEER DATE  
 4-27-15  
 PLANS APPROVAL DATE

Hung H. Do  
 No. 55485  
 Exp. 2-31-16  
 CIVIL  
 STATE OF CALIFORNIA

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S A N R A F A E L

3

ADDED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015

FOR NOTES AND LEGEND,  
 SEE SHEET SC-1

STAGE CONSTRUCTION PLAN  
 (LOCATION 1 - STAGE 2)

SCALE: 1" = 50'

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
**DESIGN**

FUNCTIONAL SUPERVISOR  
 GORDON W. JEONG

CHECKED BY

TIM LE  
 HUNG H. DO

REVISOR BY  
 DATE REVISED

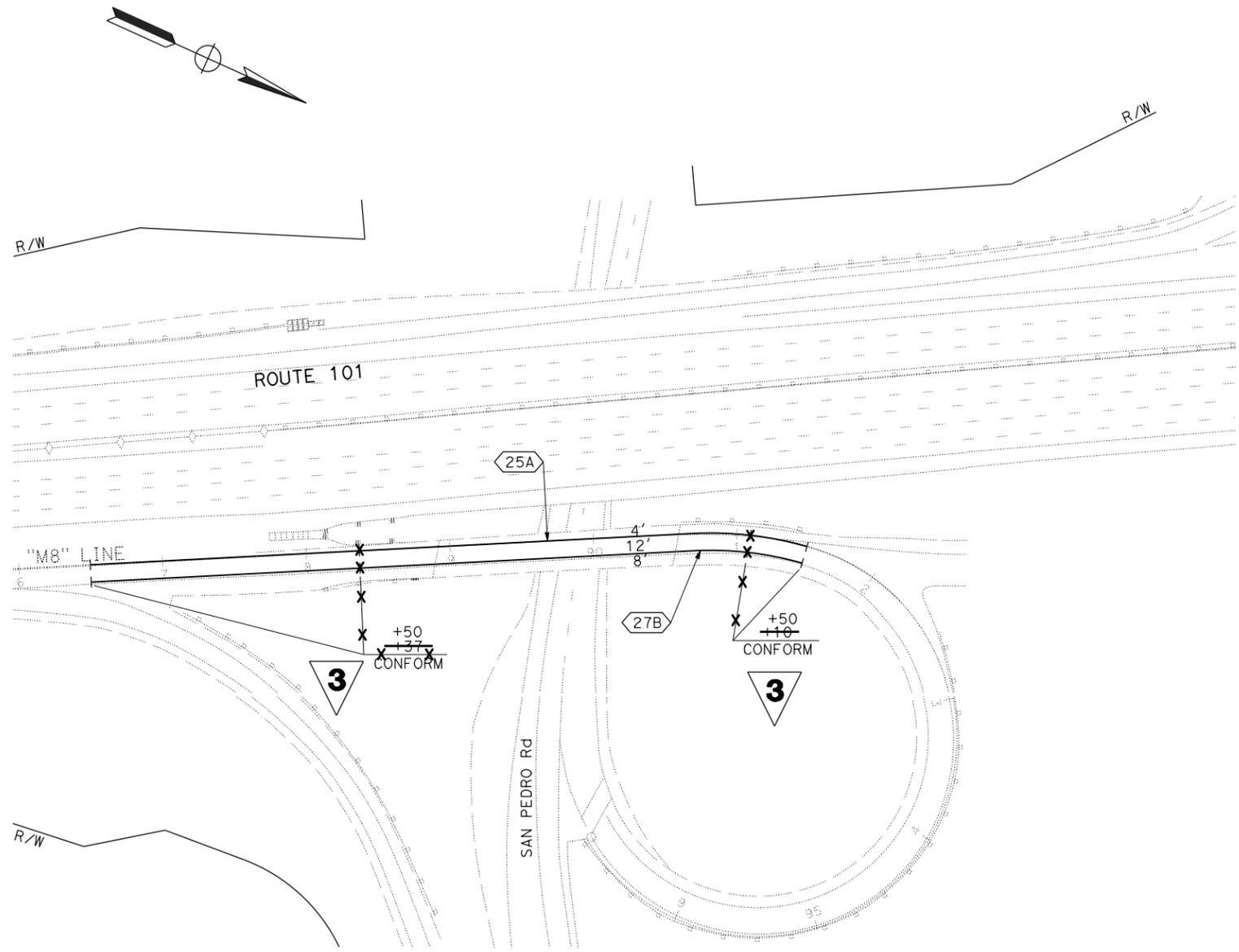
HD  
 3/25/15

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mtn	101	12.7/14.7	15	63

*Hung H. Do* 11/11/15  
 REGISTERED CIVIL ENGINEER DATE  
 4-27-15  
 PLANS APPROVAL DATE

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**REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015 PAVEMENT DELINEATION PLAN (LOCATION 1)**

SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

**PD-1**

DATE PLOTTED => 18-DEC-2015 TIME PLOTTED => 11:07  
 LAST REVISION 04-24-15



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mtn	101	12.7/14.7	17	63
<i>Hung H. Do</i>		11/11/15			
REGISTERED CIVIL ENGINEER		DATE			
		4-27-15			
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					

### TRAFFIC STRIPES, PAVEMENT MARKERS, AND TEMPORARY STRIPINGS

SHEET No.	STATION LIMITS	DETAIL No.	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	4" THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKER	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)	
										TYPE G	TYPE H
					LF				EA		
PD-1	<del>"M8" 86+37 TO 91+10</del>	25A			<del>273</del> 500						<del>42</del> 24
PD-1	<del>"M8" 86+37 TO 91+10</del>	27B			<del>273</del> 500						
PD-2	"F" 127+50 TO 135+00	25			750						16
PD-2	"F" 128+35 TO 135+80	25			745						16
PD-2	"F" 127+50 TO 135+00	9				750				16	
PD-2	"F" 128+45 TO 135+80	9				735				16	
PD-2	"F" 130+54 TO 135+80	27B			526						
PD-2	"F" 130+27 TO 133+22	27B			295						
SC-1	"F" 127+50 TO 135+00	25		750							
SC-1	"F" 128+35 TO 135+80	25		745							
SC-1	"F" 127+50 TO 135+00	9	217				217	16	16		
SC-1	"F" 128+45 TO 135+80	9	217				217	16	16		
SC-2	"F" 127+50 TO 135+00	9					217	16			
SC-2	"F" 128+45 TO 135+80	9					217	16			
SC-3	"F" 127+50 TO 128+35	25					85				
SC-3	"F" 135+35 TO 135+80	25					45				
SC-3	"F" 127+50 TO 135+00	9					217	16			
SC-3	"F" 128+45 TO 135+80	9					217	16			
SC-4	"M8" 86+50 TO 91+50	25A, 27B	500	500					24		
SUBTOTAL			<del>434</del> 934	<del>1495</del> 1995	<del>2862</del> 3316	1485	1432	96	<del>32</del> 56	32	<del>44</del> 56
SHEET TOTAL			<del>434</del> 934	<del>1495</del> 1995	<del>2862</del> 3316	1485	1432	96	<del>32</del> 56	<del>76</del> 88	

"M8" 86+50 TO 91+50  
"M8" 86+50 TO 91+50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
 CHECKED BY: HUNG H. DO  
 REVISOR: HD  
 DATE REVISOR: 3/25/15



**REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-1**

LAST REVISION: 04-24-15  
 DATE PLOTTED => 18-DEC-2015  
 TIME PLOTTED => 11:07

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR: GORDON W. JEONG  
 CHECKED BY: HUNG H. DO  
 REVISIONS: 3/25/15

**3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mtn	101	12.7/14.7	21	63
 REGISTERED CIVIL ENGINEER			11/11/15	DATE	
PLANS APPROVAL DATE 4-27-15					
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.					



**TEMPORARY FACILITIES**

SHEET No.	STATION LIMITS	TEMPORARY RAILING (TYPE K)	TEMPORARY DELINEATOR (CLASS 1)	TEMPORARY CRASH CUSHION MODULE	TEMPORARY CRASH CUSHION (ABSORB 350)	TYPE III BARRICADE
		LF			EA	
<del>L-1</del>	<del>"M8" 87+00 TO 88+70</del>	<del>120</del>	<del>5</del>	<del>14</del>		
SC-1	"F" 127+30 TO 135+00	1220	4	11		
SC-2	"F" 127+50 TO 135+00	1460	44	11	1	4
SC-3	"F" 127+20 TO 136+00	1360	10	22	2	
SC-4	"M8" 86+50 TO 90+70	340	<del>12</del> 10	14		
SC-5	"M8" 86+50 TO 90+70	380	<del>12</del> 10	14		
TOTAL		<del>4160</del> 4760	<del>63</del> 78	<del>25</del> 72	3	4

**ROADWAY QUANTITIES**

SHEET No.	STATION LIMITS	REMOVE GUARDRAIL	REMOVE METAL RAILING	COLD PLANE ASPHALT CONCRETE PAVEMENT	REMOVE CONCRETE (CURB, GUTTER, AND SIDEWALK)	REMOVE CONCRETE MEDIAN	MIDWEST GUARDRAIL SYSTEM (WOOD POST)	TRANSITION RAILING (TYPE WB-31)	ALTERNATIVE FLARED TERMINAL SYSTEM	MINOR CONCRETE				HMA (TYPE A)	DRILL AND BOND DOWEL
		LF		SQYD	CY		LF	EA		MINOR STRUCTURE	CURB AND GUTTER	SIDEWALK	ISLAND PAVING	TON	LF
L-1	"M8" 88+10 TO 88+90	62.5	39	148			62.5	<del>+</del> 2	1	<del>-</del> 5				15	<del>+</del> 0
L-1	"M8" 90+50 TO 91+10			155										15.7	
L-2	"F" 129+28 TO 130+50	125					50	1	1						
L-2	"F" 133+33 TO 134+70	137.5													
L-3	"LV" 597+79 TO 599+79	200					137.5	1	1						
SC-1	"F" 128+40 TO 130+57				25.6	27.5								89	
SC-1	"F" 130+57 TO 133+33					29									
SC-1	"F" 133+33 TO 135+00				19.7	19								63	
C-1	"F" 128+40 TO 130+57													16.3	
C-1	"F" 130+57 TO 133+33									15.5					154
C-1	"F" 133+33 TO 135+00										19.7		13	12.7	
C-2	"F" 130+20 TO 130+27				1.3						0.5	0.9		0.3	
C-2	"F" 133+30 TO 134+62				8.5						8.5	19.6		5	
TOTAL		<del>462.5</del> 525	39	303	55.1	75.5	<del>187.5</del> 250	<del>-</del> 4	3	<del>16</del> 15.5	54.3	20.5	34.5	217	<del>172</del> 154

**3**

REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015

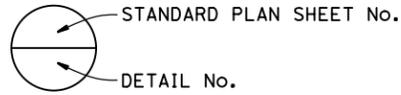
SUMMARY OF QUANTITIES

Q-1

DATE PLOTTED => 18-DEC-2015    TIME PLOTTED => 11:07

**STANDARD PLANS DATED 2010**

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- RSP A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- RSP A77U4 MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING (TYPE WB-31)
- RSP B11-55 CONCRETE BARRIER TYPE 732

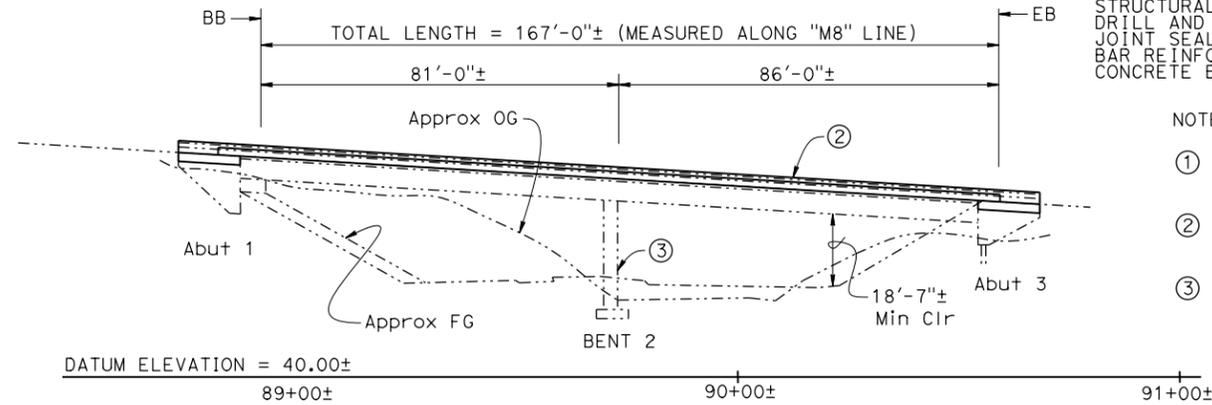


**QUANTITIES**

RAPID SETTING CONCRETE (PATCH)	10	CF
REMOVE ASPHALT CONCRETE SURFACING	4,008	SQFT
REMOVE UNSOUND CONCRETE	10	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,008	SQFT
TREAT BRIDGE DECK	4,008	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	45	GAL
CARBON FIBER REINFORCED POLYMER STRIP	1,740	LF
BRIDGE REMOVAL (PORTION), LOCATION A	1,740	LF
STRUCTURE EXCAVATION (TYPE Z-2)	7	CY
(AERIALY DEPOSITED LEAD)	6	CY
STRUCTURE BACKFILL (BRIDGE)	46	CY
STRUCTURAL CONCRETE, BRIDGE	245	LF
DRILL AND BOND DOWEL	54	LF
JOINT SEAL (MR 1")	54	LF
BAR REINFORCING STEEL (BRIDGE)	13,460	LB
CONCRETE BARRIER (TYPE 732 MODIFIED)	390	LF

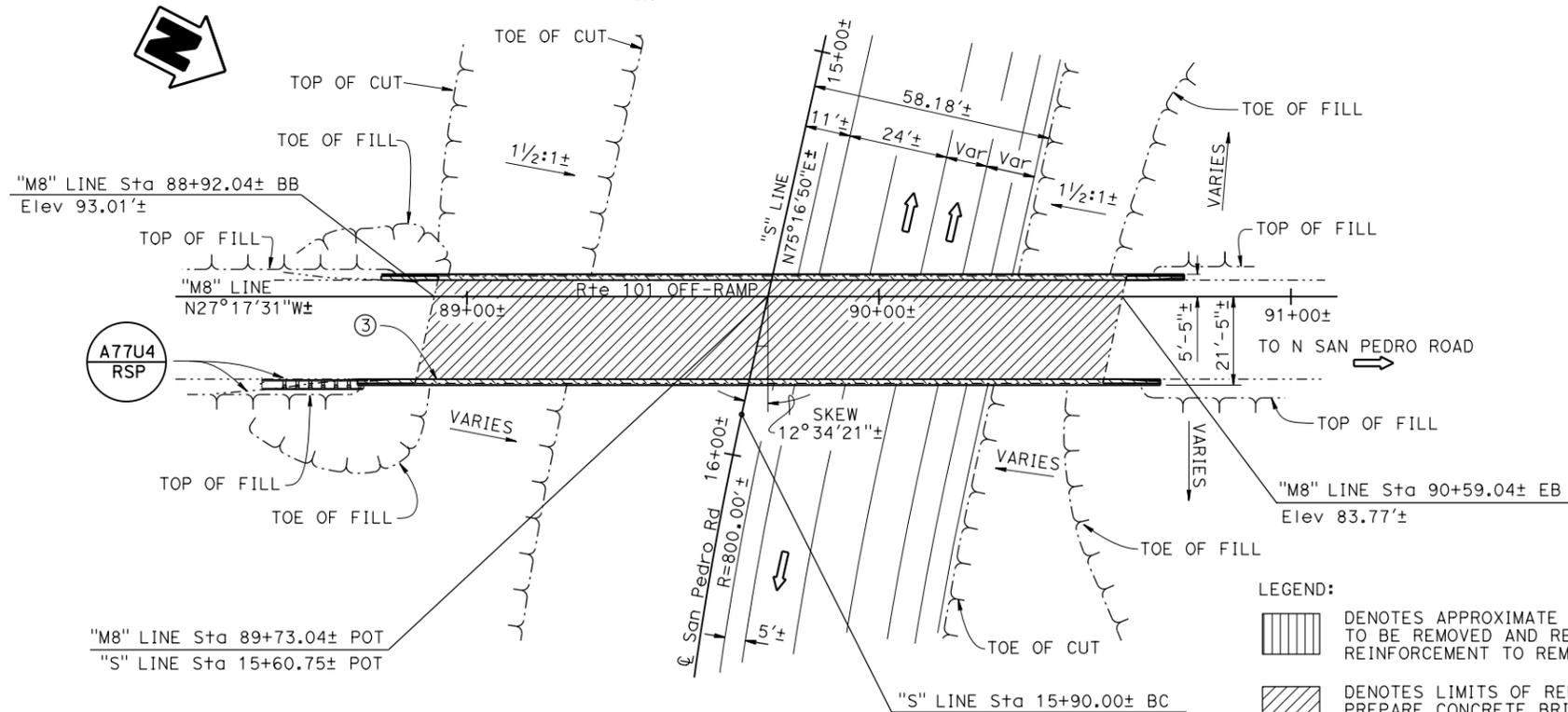
**NOTES:**

- ① Carbon Fiber Reinforced Polymer (CFRP) Strip
- ② Replace existing barrier railing (Type 9) with Concrete Barrier (Type 732 Modified), Typ
- ③ Paint the bridge identification as follows: "NORTH SAN PEDRO ROAD UC BRIDGE NO. 27-0014S PM 12.69 1970" on the Barrier and Substructure



**ELEVATION**

1" = 20'  
NOTE: MBGR not shown



**PLAN**

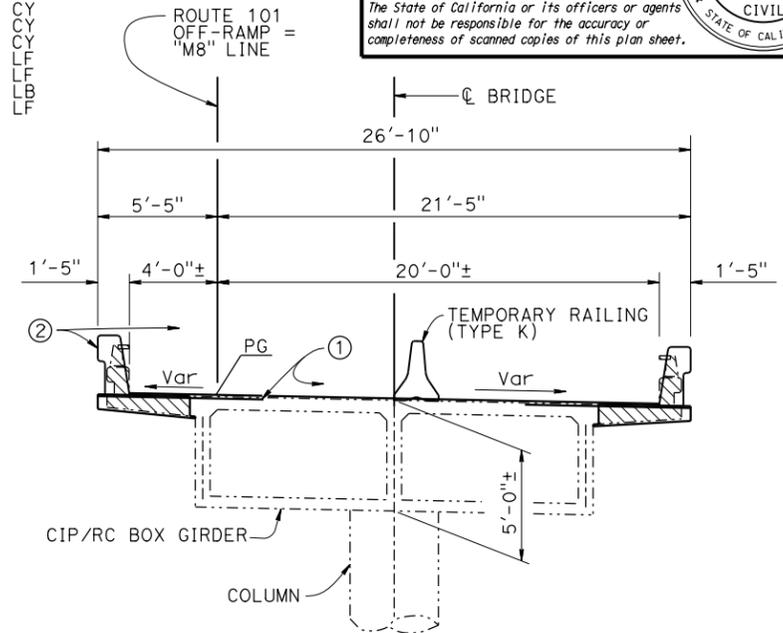
1" = 20'

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

**3 REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

**LEGEND:**

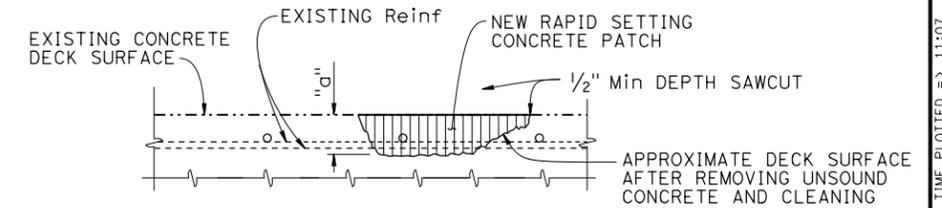
- DENOTES APPROXIMATE VOLUME OF DECK CONCRETE TO BE REMOVED AND REPLACED. EXISTING DECK REINFORCEMENT TO REMAIN
- DENOTES LIMITS OF REMOVE EXISTING AC OVERLAY (3"± THICK), PREPARE CONCRETE BRIDGE DECK SURFACE, AND TREAT BRIDGE DECK WITH HIGH MOLECULAR WEIGHT METHACRYLATE
- DENOTES LIMITS OF BRIDGE REMOVAL (PORTION)
- DENOTES EXISTING STRUCTURE
- DENOTES NEW CONSTRUCTION



**TYPICAL SECTION**

1/4" = 1'-0"

DECK REPAIR TABLE		
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)		
BRIDGE LOCATION	APPROXIMATE DEPTH (INCH), = "a"	APPROXIMATE VOLUME (FT3)
SAN PEDRO ROAD UC (OFF RAMP)	3"±	10±



**DECK REPAIR DETAIL**

NO SCALE

NOTE:  
Locations, area and depth of deck removal and replacement to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal. Existing reinforcement to remain.

DESIGN	BY MOHEY EL-MOUSLY	CHECKED M. VAN DE POL	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL 93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY M. VAN DE POL/D. ELLIOTT	CHECKED MOHEY EL-MOUSLY	LAYOUT	BY M. VAN DE POL
QUANTITIES	BY MOHEY EL-MOUSLY	CHECKED EVAN FRANCLISO	SPECIFICATIONS	BY WANDA WARD

<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S
		POST MILE 12.69

<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b>	
<b>BARRIER REPLACEMENT</b>	
<b>GENERAL PLAN</b>	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46A	63

*Evan M. Franciliso* 11-17-15  
REGISTERED CIVIL ENGINEER DATE

4-27-15  
PLANS APPROVAL DATE

EVAN FRANCILISO  
No. C66343  
Exp. 6-30-2016  
CIVIL  
STATE OF CALIFORNIA

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**3**

**GENERAL NOTES**

**LOAD AND RESISTANCE FACTOR DESIGN**

**DESIGN:**

AASHTO LRFD Bridge Design Specifications, 4th edition with the California Amendments.

**DEAD LOAD:**

Includes 35 psf for future wearing surface.

**LIVE LOADING:**

HL93 and permit design load.  
Transverse vehicle impact force, F = 27 ksi (Test Level 2)

**CONCRETE:**

f<sub>y</sub> = 60 ksi  
f'c = 3.6 ksi  
n = 8

**CARBON FIBER REINFORCED POLYMER:**

Min tensile strength = 285 ksi  
Tensile modulus of elasticity = 18,000 ksi  
Effective cross sectional area = 0.11 IN<sup>2</sup>

**FALSEWORK RELEASE:**

**ALTERNATIVE 1:**

FALSEWORK SHALL BE RELEASED AS SOON AS PERMITTED BY THE SPECIFICATIONS.

**ALTERNATIVE 2:**

FALSEWORK SHALL NOT BE RELEASED LESS THAN 28 DAYS AFTER THE LAST CONCRETE HAS BEEN PLACED.

**LEGEND:**

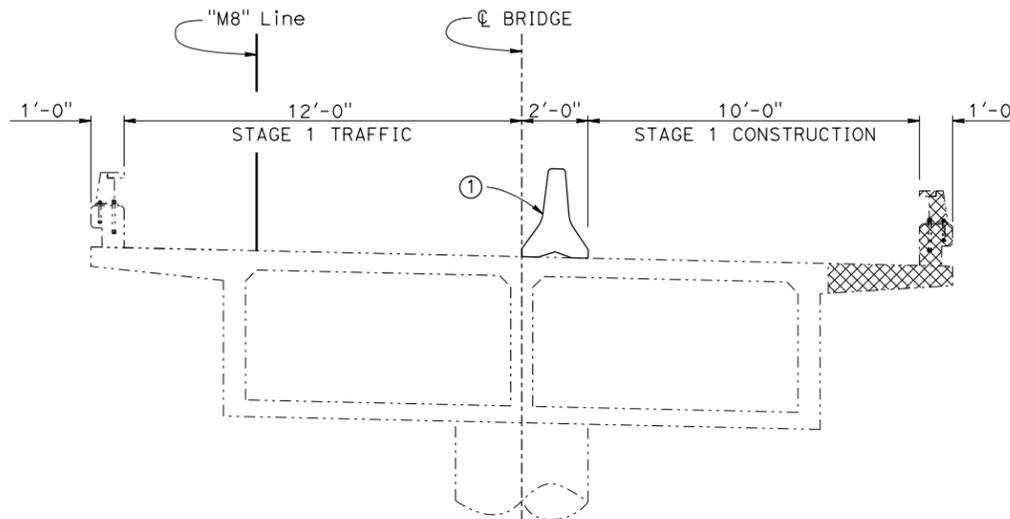
- Denotes structure excavation
- Denotes structure backfill
- Denotes limits of bridge removal (portion)
- Denotes existing structure
- Denotes new structure

**NOTES:**

- ① Temporary Railing (Type K), see "ROADWAY PLANS".
- ② Concrete Barrier (Type 732 Modified).

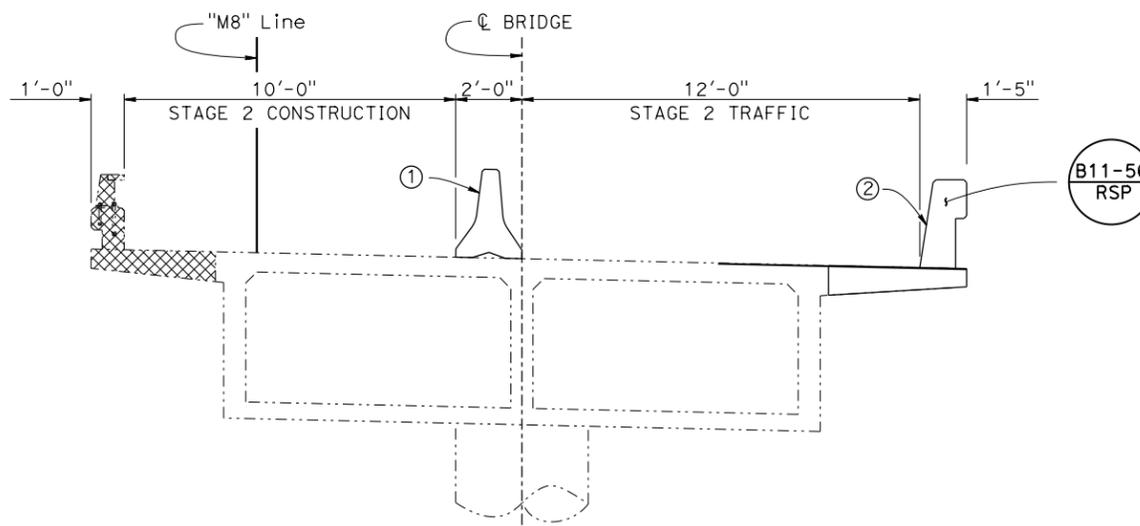
**INDEX TO PLANS**

SHEET NO.	TITLES
1.	GENERAL PLAN
2A.	DETAILS NO. 1
2B.	DETAILS NO. 2
2C.	DETAILS NO. 3
2D.	DETAILS NO. 4
2E.	DETAILS NO. 5
2F.	DETAILS NO. 6



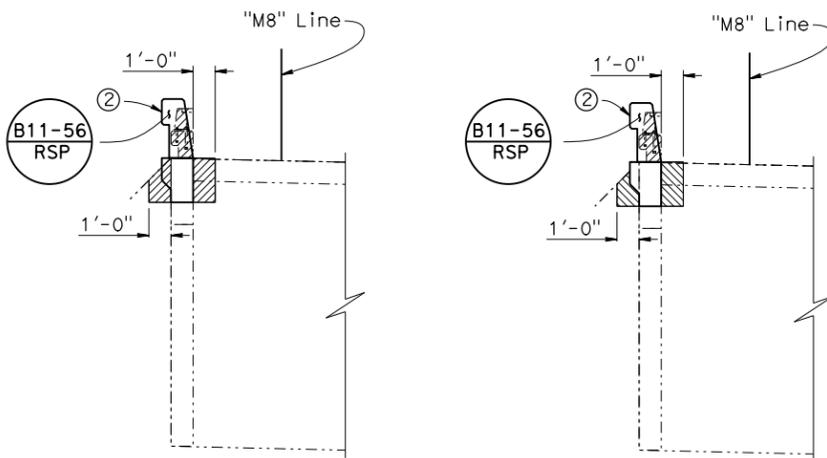
**STAGE 1**

3/8" = 1'-0"



**STAGE 2**

3/8" = 1'-0"



**EXCAVATION**

**BACKFILL**

**LIMITS OF EXCAVATION AND BACKFILL**

1/4" = 1'-0"

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

**3** **ADDED PER ADDENDUM No. 3**  
**DATED DECEMBER 18, 2015**

DESIGN BY EVAN FRANCILISO CHECKED KIM MORI DETAILS BY DAVID ELLIOTT CHECKED EVAN FRANCILISO QUANTITIES BY EVAN FRANCILISO CHECKED KIM MORI			<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S POST MILE 12.69	<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 1</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3594 PROJECT NUMBER & PHASE: 0412000117-1	CONTRACT NO.: 04-4A0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 11-16-15, 10-20-15, 11-2-15, 11-4-15 SHEET 2A OF 2

18-DEC-2015 11:07 TIME PLOTTED => USERNAME => P04922

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46B	63

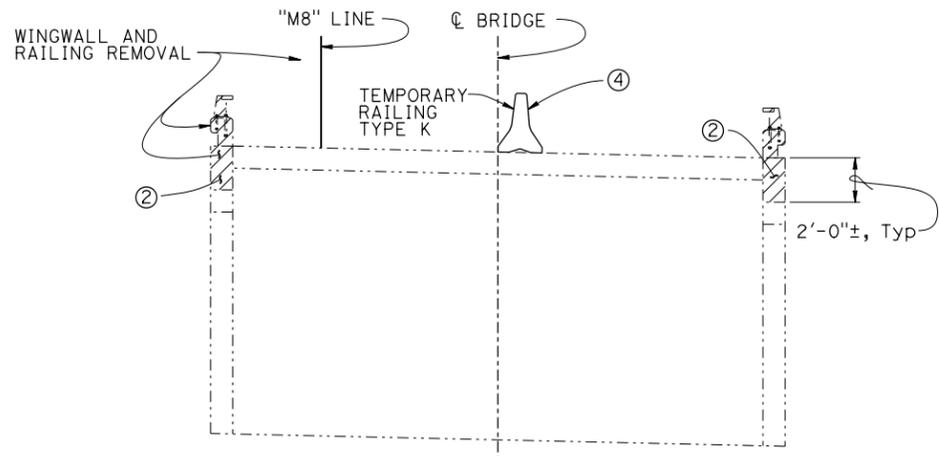
*Evan M. Franciliso* 11-17-15  
REGISTERED CIVIL ENGINEER DATE

4-27-15  
PLANS APPROVAL DATE

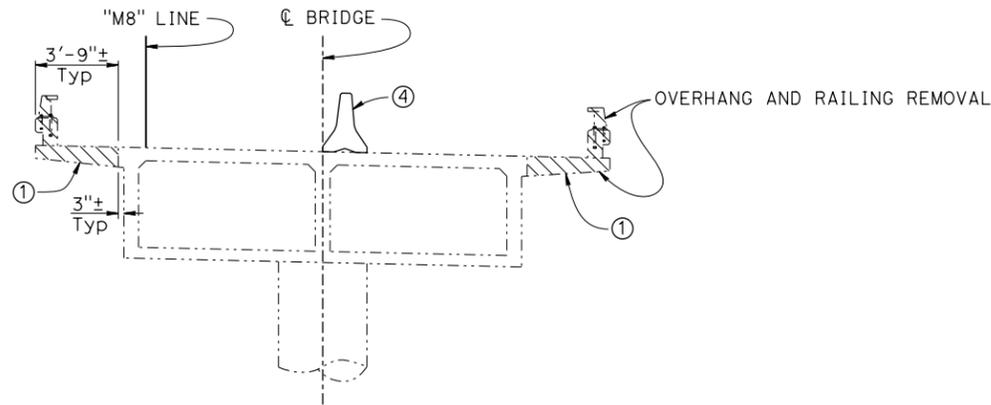
EVAN FRANCILISO  
No. C66343  
Exp. 6-30-2016  
CIVIL  
STATE OF CALIFORNIA

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**3**



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



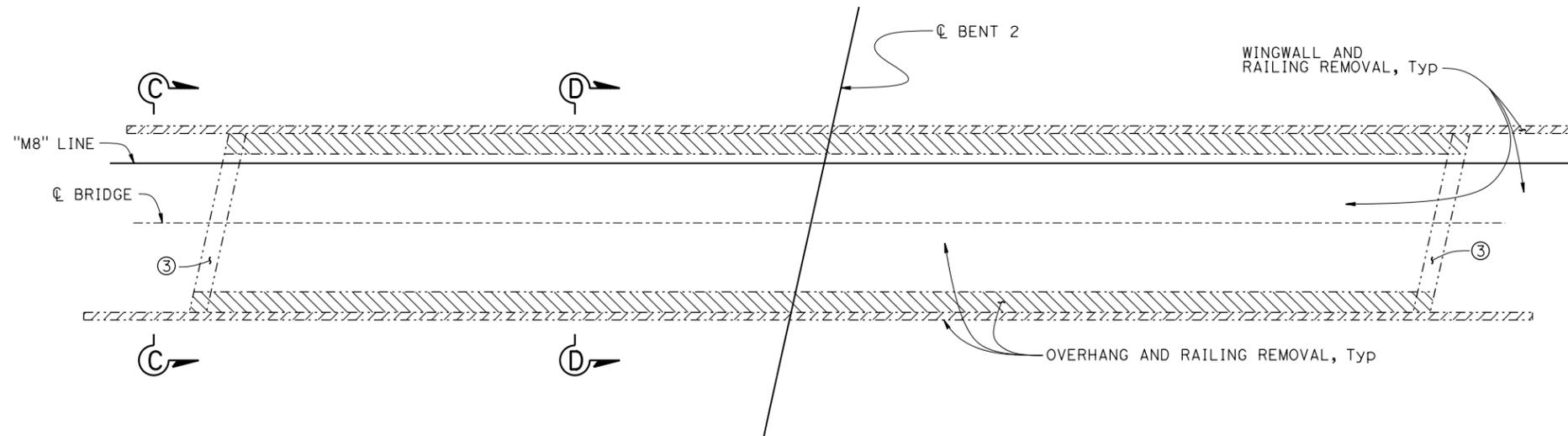
**SECTION D-D**  
1/4" = 1'-0"

LEGEND:

- Denotes limits of overhang and railing removal
- Denotes limits of wingwall and railing removal
- Denotes existing structure
- Denotes new structure

NOTES:

- ① Transverse reinforcement to remain undamaged.
- ② Vertical reinforcement to remain undamaged.
- ③ No concrete removal at Abutment stem.
- ④ Temporary railing (Type K), see "ROADWAY PLANS".



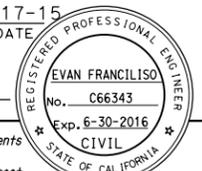
**PLAN - REMOVAL**  
1" = 10'

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

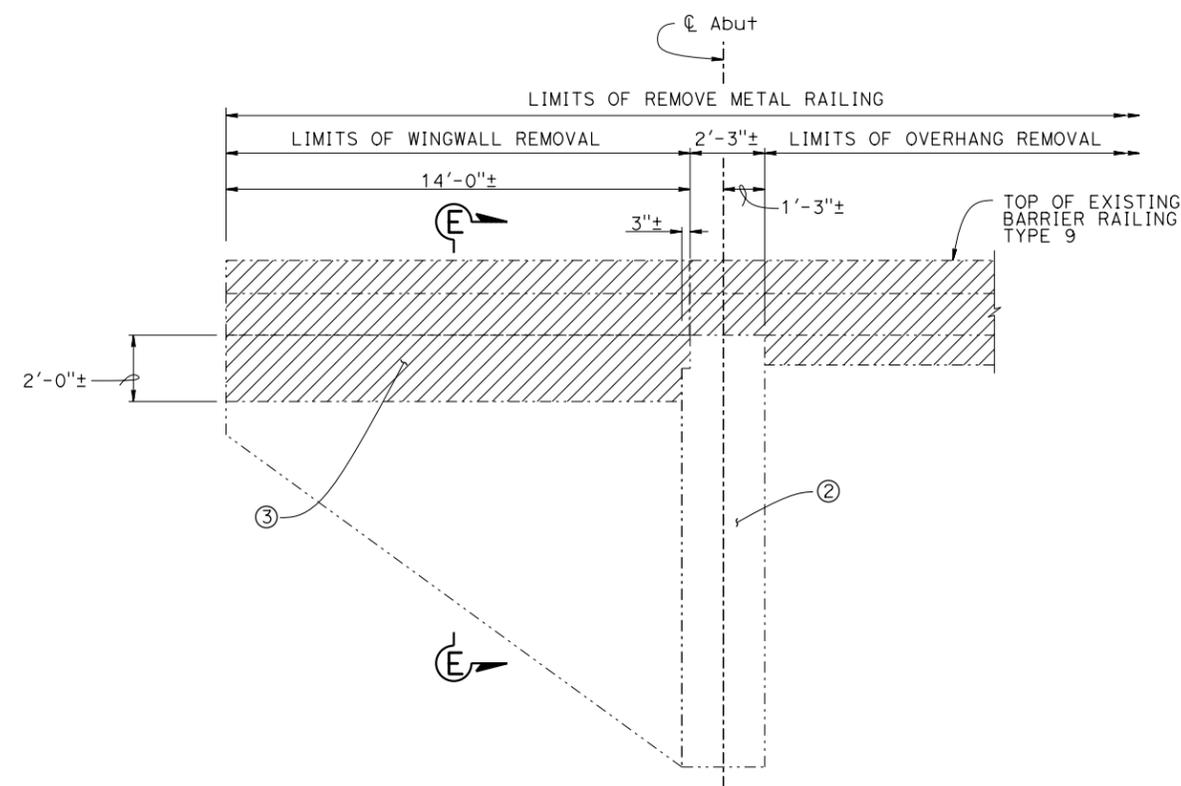
**3** ADDED PER ADDENDUM No. 3  
DATED DECEMBER 18, 2015

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			<table border="1"> <tr> <td>DESIGN</td> <td>BY EVAN FRANCILISO</td> <td>CHECKED KIM MORI</td> </tr> <tr> <td>DETAILS</td> <td>BY DAVID ELLIOTT</td> <td>CHECKED EVAN FRANCILISO</td> </tr> <tr> <td>QUANTITIES</td> <td>BY EVAN FRANCILISO</td> <td>CHECKED KIM MORI</td> </tr> </table>		DESIGN	BY EVAN FRANCILISO	CHECKED KIM MORI	DETAILS	BY DAVID ELLIOTT	CHECKED EVAN FRANCILISO	QUANTITIES	BY EVAN FRANCILISO	CHECKED KIM MORI	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>		BRIDGE NO. 27-0014S POST MILE 12.69		<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 2</b>	
DESIGN	BY EVAN FRANCILISO	CHECKED KIM MORI																			
DETAILS	BY DAVID ELLIOTT	CHECKED EVAN FRANCILISO																			
QUANTITIES	BY EVAN FRANCILISO	CHECKED KIM MORI																			
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3594		PROJECT NUMBER & PHASE: 0412000117-1		CONTRACT NO.: 04-4A0004											
						DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES 10-27-15 10-30-15 11-16-15		SHEET 2B OF 2											

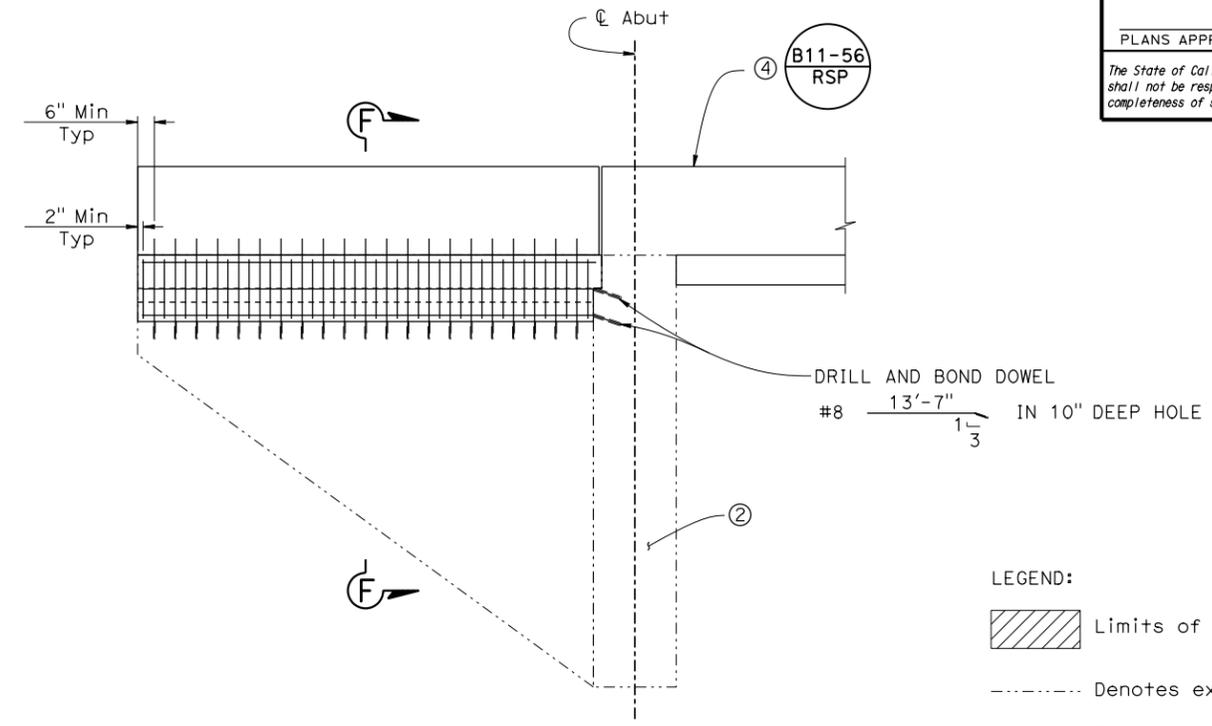
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46C	63
<i>Evan M. Franciliso</i> 11-17-15 REGISTERED CIVIL ENGINEER DATE					
4-27-15 PLANS APPROVAL DATE					
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**3**



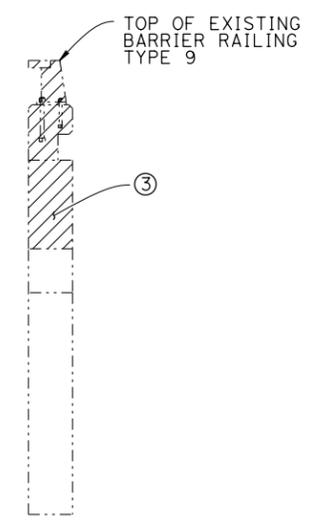
**WINGWALL REMOVAL**  
1/4" = 1'-0"



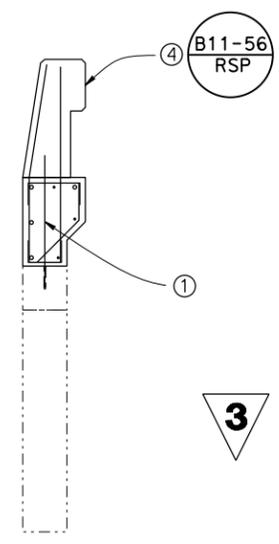
**WINGWALL RETROFIT**  
1/4" = 1'-0"

**LEGEND:**  
 Limits of removal  
 Denotes existing structure  
 Denotes new structure

**NOTES:**  
 ① For "Section F-F" details, see "WINGWALL DETAILS" on "DETAILS NO. 5" sheet.  
 ② Abutment 1 shown, Abutment 3 similar.  
 ③ Vertical reinforcement to remain undamaged.  
 ④ Concrete Barrier (Type 732 Modified).



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



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

**3 ADDED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

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

DESIGN BY EVAN FRANCILISO CHECKED KIM MORI DETAILS BY DAVID ELLIOTT CHECKED EVAN FRANCILISO QUANTITIES BY EVAN FRANCILISO CHECKED KIM MORI			<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S POST MILE 12.69	<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 3</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3594 PROJECT NUMBER & PHASE: 0412000117-1 CONTRACT NO.: 04-4A0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET 2C OF 2

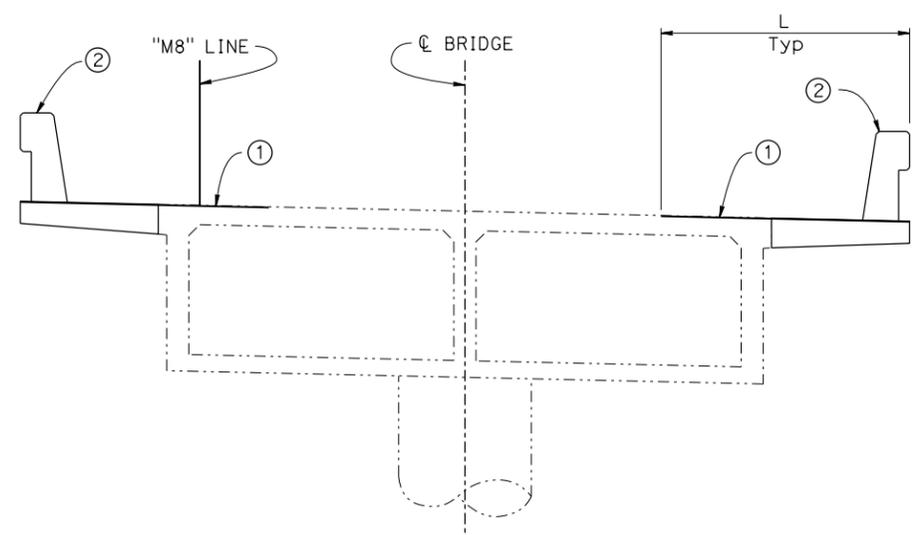
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46D	63

Evan M. Franciliso 11-17-15  
 REGISTERED CIVIL ENGINEER DATE  
 4-27-15  
 PLANS APPROVAL DATE  
 No. C66343  
 Exp. 6-30-2016  
 CIVIL  
 STATE OF CALIFORNIA

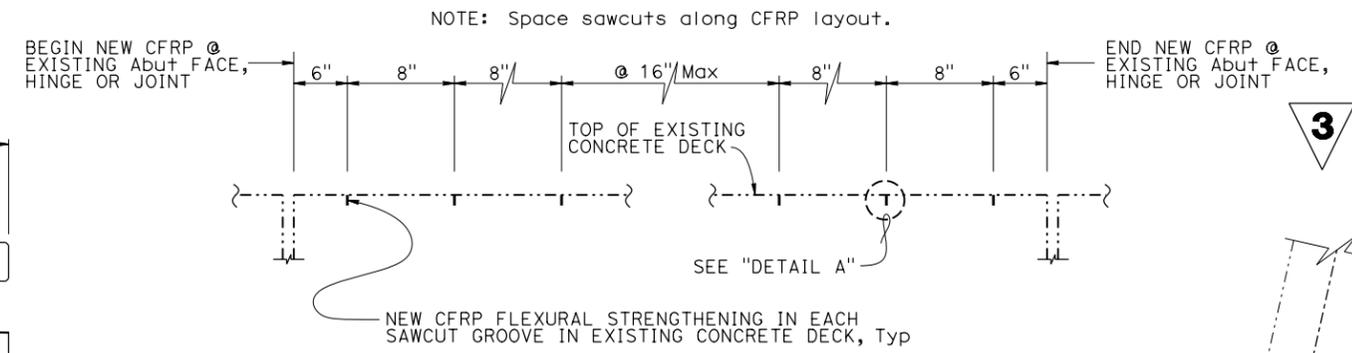
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- NOTES:
- CARBON FIBER REINFORCED POLYMER (CFRP) STRIPS SPACING AS SHOWN ON PLANS, L = 7'-0", Typ
  - CONCRETE BARRIER (TYPE 732 MODIFIED)

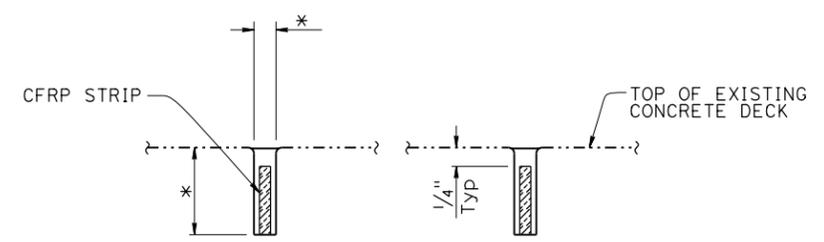


**TYPICAL SECTION**  
3/8" = 1'-0"

LEGEND:  
 - - - - - Denotes existing structure  
 \_\_\_\_\_ Denotes new structure

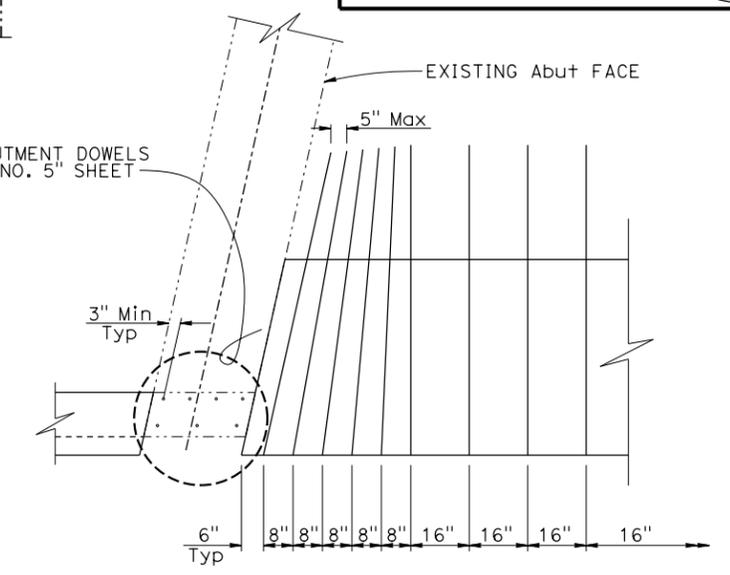


**SECTION D-D**  
NO SCALE

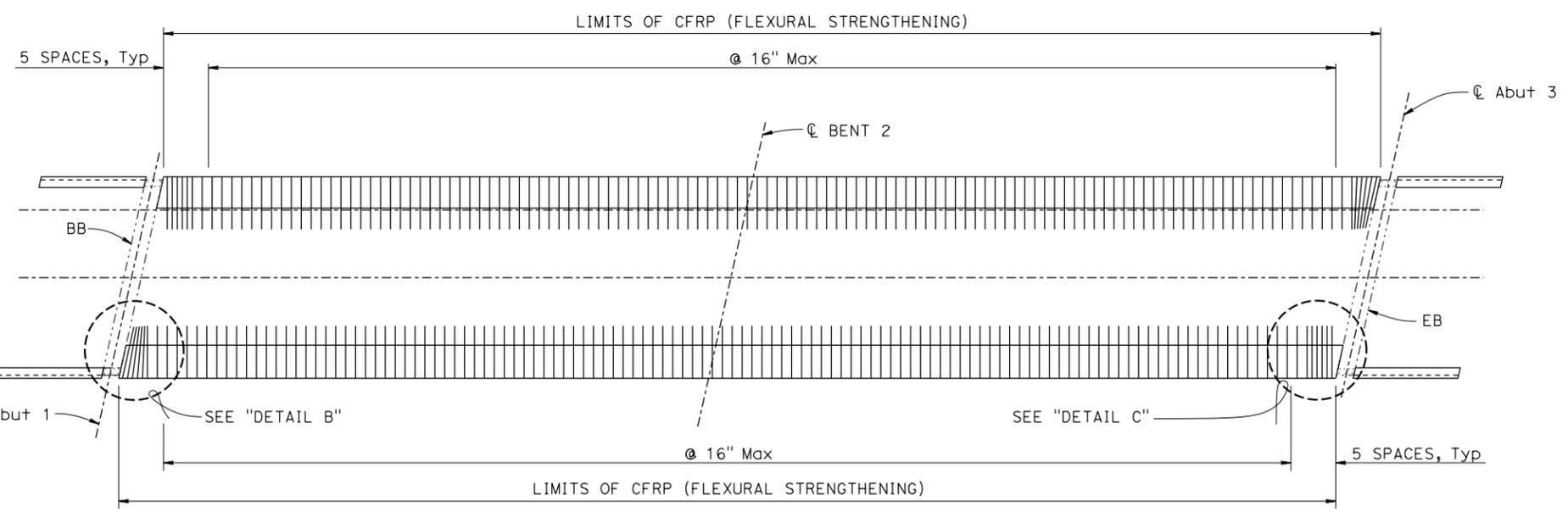


**DETAIL A**  
3" = 1'-0"

NOTE:  
 \* Sawcut width to be determined by the CFRP manufacturer and the Engineer. 1" maximum depth.



**DETAIL B**  
1/2" = 1'-0"



**CFRP STRIP LAYOUT**  
1" = 10'

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

- NOTES:
- Adjust CFRP groove spacing to avoid conflict with barrier reinforcement.
  - Sawcut CFRP grooves after concrete cures per special provisions.

**3 ADDED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

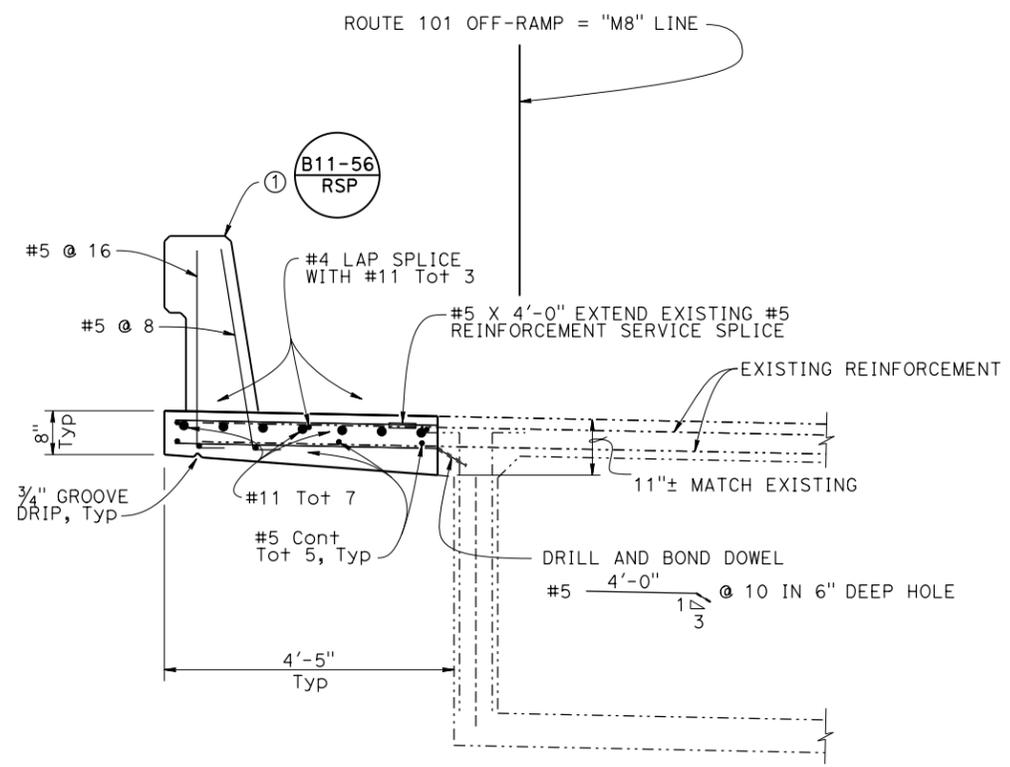
DESIGN BY EVAN FRANCILISO CHECKED KIM MORI		<b>STATE OF CALIFORNIA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DIVISION OF ENGINEERING SERVICES</b> <b>STRUCTURE DESIGN</b> <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S	<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 4</b>
DETAILS BY DAVID ELLIOTT CHECKED EVAN FRANCILISO				POST MILE 12.69	
QUANTITIES BY EVAN FRANCILISO CHECKED KIM MORI					

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3594 PROJECT NUMBER & PHASE: 0412000117-1 CONTRACT NO.: 04-4A0004 DISREGARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES: 10-28-15, 10-30-15, 11-3-15, 11-5-15 SHEET 2D OF 2  
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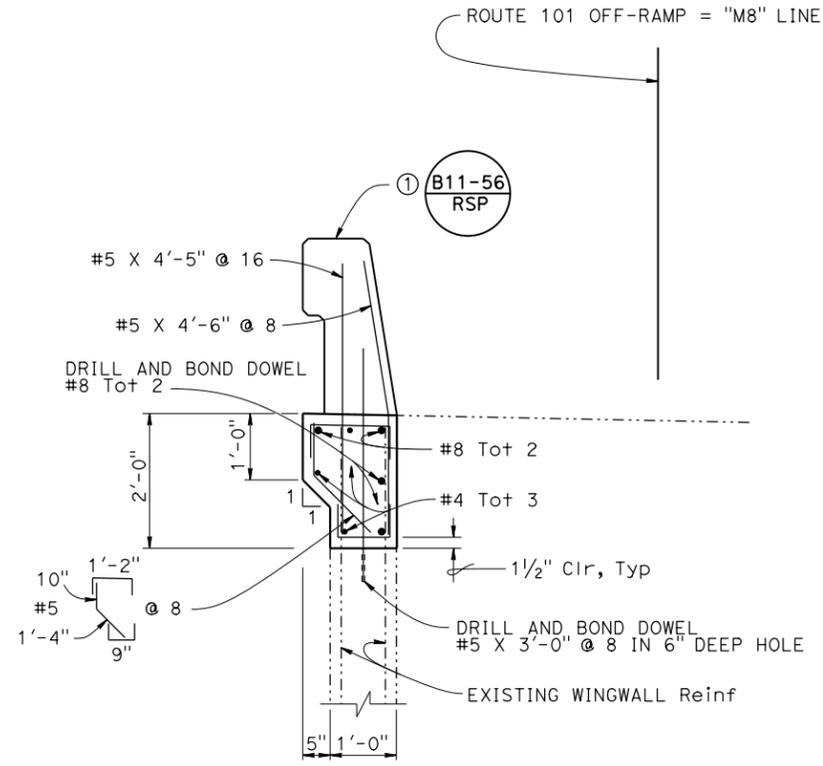
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46E	63
<i>Evan M. Franciliso</i> 11-17-15 REGISTERED CIVIL ENGINEER DATE					
4-27-15			PLANS APPROVAL DATE		
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**3**

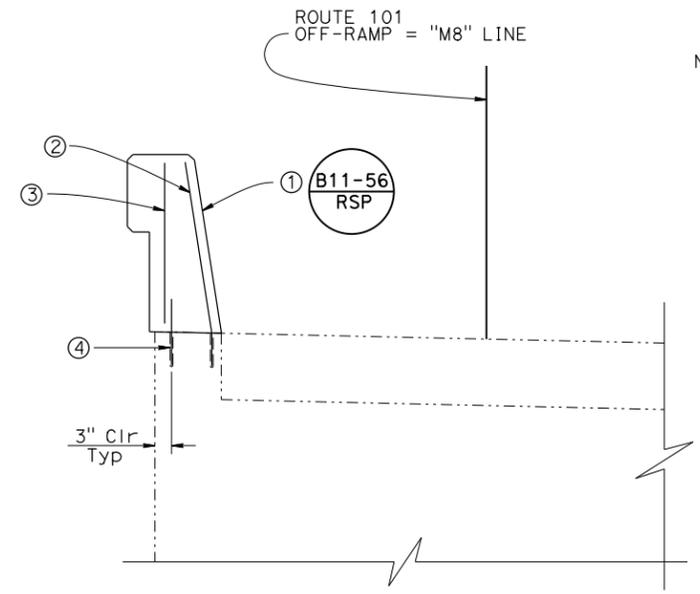


**OVERHANG DETAILS**  
 $\frac{1}{2}'' = 1'-0''$   
 NOTE: 5" Widening



**WINGWALL DETAILS**  
 $\frac{1}{2}'' = 1'-0''$   
 NOTE: 5" Widening both left and right EOD.

- LEGEND:
- Denotes existing structure
  - Denotes new structure
- NOTES:
- Concrete Barrier (Type 732 Modified)
  - Drill and bond dowel #5 X 3'-1" Tot 4 in 6" deep hole
  - #5 X 2'-5" @ 16"
  - Drill and bond dowel #5 X 1'-0" Tot 3 in 6" deep hole



**ABUTMENT DOWEL DETAILS**  
 $\frac{1}{2}'' = 1'-0''$

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

**3** ADDED PER ADDENDUM No. 3  
 DATED DECEMBER 18, 2015

DESIGN BY EVAN FRANCILISO CHECKED KIM MORI DETAILS BY DAVID ELLIOTT CHECKED EVAN FRANCILISO QUANTITIES BY EVAN FRANCILISO CHECKED KIM MORI			<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S POST MILE 12.69	<b>NORTH SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 5</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	UNIT: 3594 PROJECT NUMBER & PHASE: 0412000117-1	CONTRACT NO.: 04-4A0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 11-8-15, 11-16-15, 10-30-15, 11-2-15 SHEET 2E OF 2

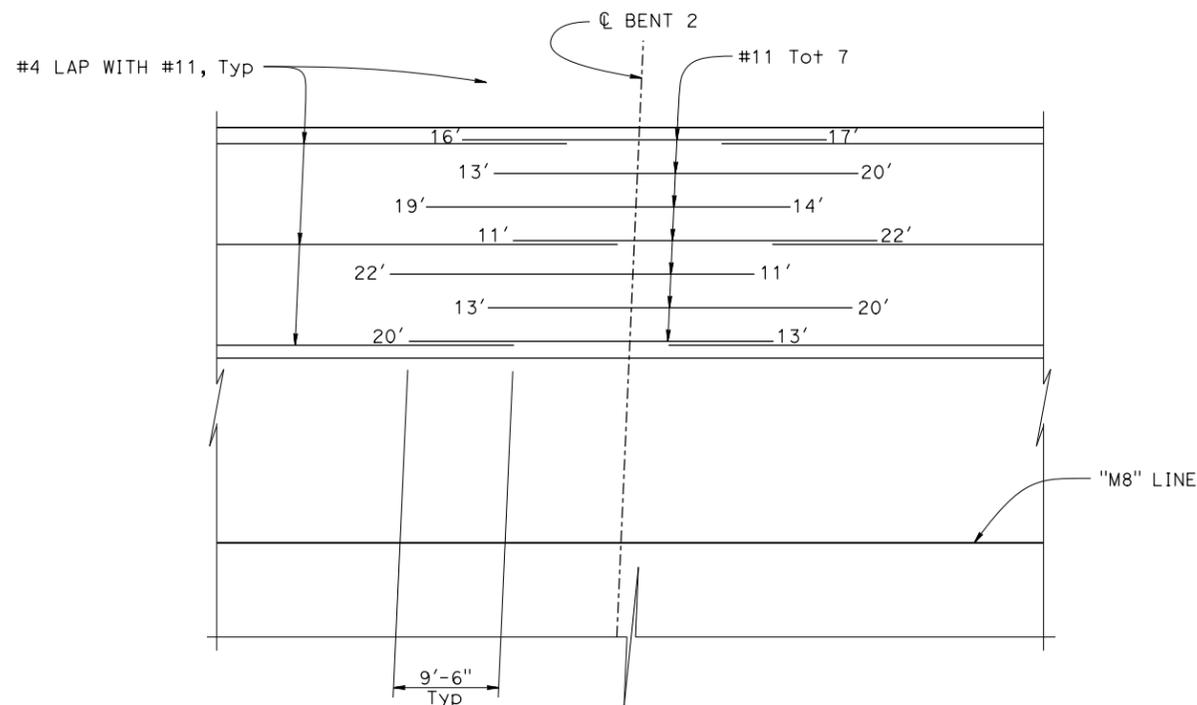
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	46F	63

Evan M. Franciliso 11-17-15  
 REGISTERED CIVIL ENGINEER DATE  
 4-27-15  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 EVAN FRANCILISO  
 No. C66343  
 Exp. 6-30-2016  
 CIVIL  
 STATE OF CALIFORNIA

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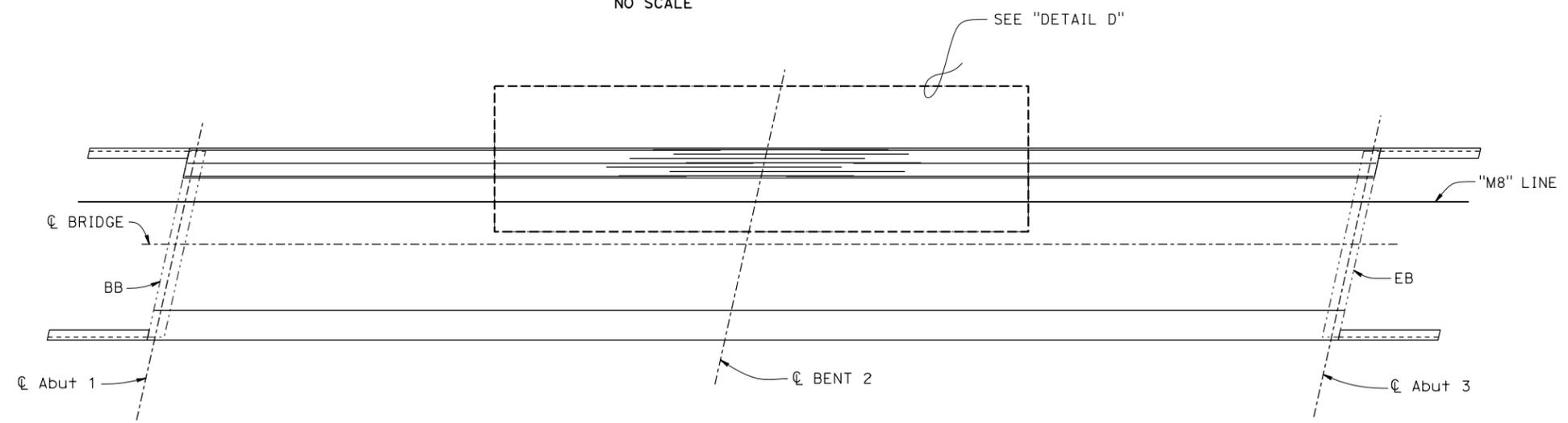
**DETAIL D**  
NO SCALE

**LEGEND:**

- Denotes existing structure
- Denotes new structure

**NOTES:**

- For reinforcement details, see "OVERHANG DETAILS" on "DETAILS NO. 5" sheet.



**GIRDER LAYOUT - TOP REINFORCEMENT**  
1" = 10'

**3** ADDED PER ADDENDUM No. 3  
DATED DECEMBER 18, 2015

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

DESIGN BY EVAN FRANCILISO CHECKED KIM MORI DETAILS BY DAVID ELLIOTT CHECKED EVAN FRANCILISO QUANTITIES BY EVAN FRANCILISO CHECKED KIM MORI			<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN <b>DESIGN BRANCH 9</b>	BRIDGE NO. 27-0014S POST MILE 12.69	<b>SAN PEDRO ROAD UC (OFF RAMP)</b> <b>BARRIER REPLACEMENT</b> <b>DETAILS NO. 6</b>
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3594 PROJECT NUMBER & PHASE: 0412000117-1	CONTRACT NO.: 04-4A0004	DISREGARD PRINTS BEARING EARLIER REVISION DATES
			0 1 2 3	10-2-15 11-2-15 11-3-15 11-5-15	SHEET 2F	OF 2

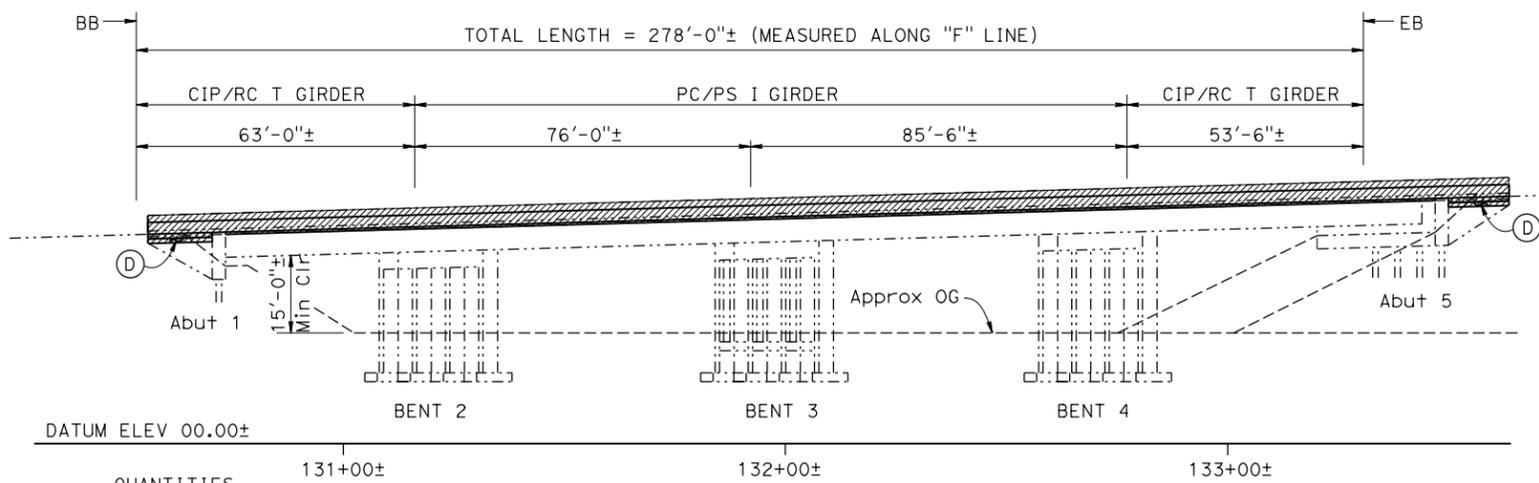
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	MRN	101	12.7/14.7	48	63

*Evan M. Franciliso* 4-23-15  
REGISTERED CIVIL ENGINEER DATE

4-27-15  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
EVAN FRANCLISO  
No. C66343  
Exp. 6-30-2016  
CIVIL  
STATE OF CALIFORNIA

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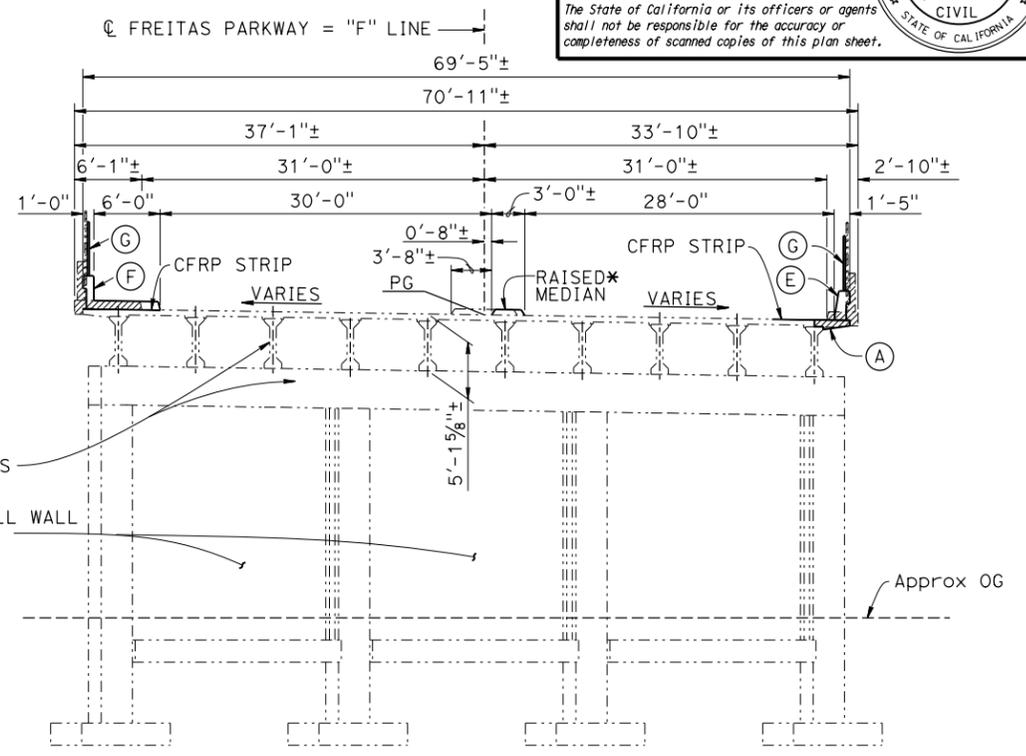


QUANTITIES

PUBLIC SAFETY PLAN	1,853	SOFT
REMOVE CONCRETE DECK SURFACE	1,853	SOFT
PREPARE CONCRETE BRIDGE DECK SURFACE	154	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,853	SOFT
PLACE POLYESTER CONCRETE OVERLAY	2,055	LF
CARBON FIBER REINFORCED POLYMER STRIP BRIDGE REMOVAL (PORTION), LOCATION B	27	SUM
STRUCTURAL CONCRETE, BRIDGE	33	CY
STRUCTURAL CONCRETE, BARRIER SLAB	130	LF
DRILL AND BOND DOWEL	6	LF
JOINT SEAL (MR 1")	5,005	LF
BAR REINFORCING STEEL (BRIDGE)	290	LB
MISCELLANEOUS METAL (BRIDGE)	616	LF
CHAIN LINK RAILING (TYPE 7 MODIFIED)	307	LF
CONCRETE BARRIER (TYPE 26 MODIFIED)	309	LF
CONCRETE BARRIER (TYPE 732 MODIFIED)		LF

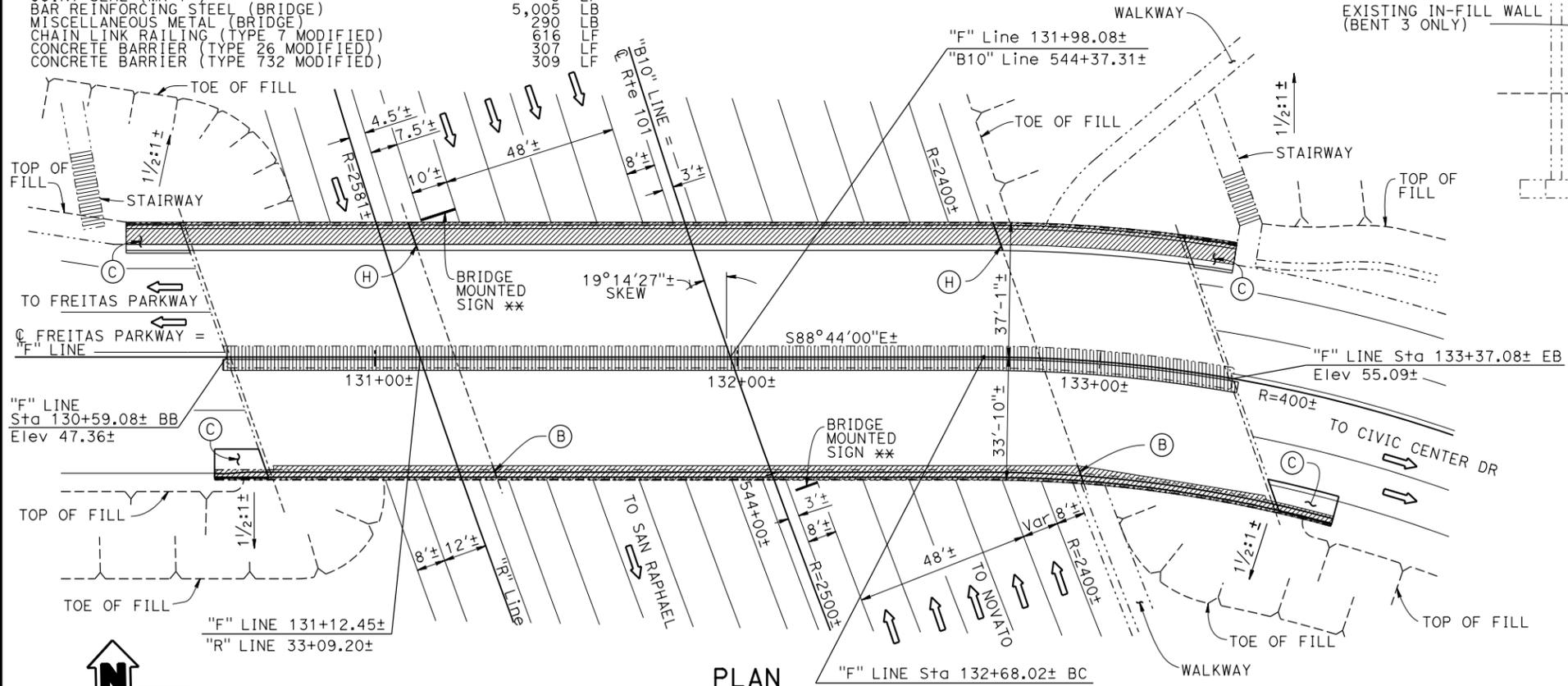
**ELEVATION**  
1" = 20'

NOTE: SIGNS AND MBGR NOT SHOWN



**TYPICAL SECTION (SPANS 2 & 3)**  
1/8" = 1'-0"

- LEGEND:
- DENOTES EXISTING
  - DENOTES NEW CONSTRUCTION
  - [Hatched] DENOTES LIMITS OF REMOVAL OF EXISTING CONCRETE CURB, DECK OVERHANG, STEEL RAILING, CHAIN LINK RAILING, AND WINGWALL
  - [Cross-hatched] DENOTES LIMITS OF REMOVE CONCRETE DECK SURFACE, PREPARE CONCRETE BRIDGE DECK SURFACE, FURISH POLYESTER CONCRETE OVERLAY AND PLACE 1"± POLYESTER CONCRETE OVERLAY
- NOTES:
- (A) CONCRETE OVERHANG (NEW)
  - (B) JOINT SEAL (MR 1")
  - (C) BARRIER SLAB (NEW)
  - (D) WINGWALL RETROFIT
  - (E) CONCRETE BARRIER (TYPE 732 MODIFIED)
  - (F) CONCRETE BARRIER (TYPE 26 MODIFIED)
  - (G) CHAIN LINK RAILING (TYPE 7 MODIFIED)
  - (H) JOINT ARMOR
  - \* FOR MEDIAN REMOVAL AND REPLACEMENT, SEE "ROADWAY PLANS"
  - \*\* EXISTING BRIDGE MOUNTED SIGNS TO BE REMOVED. FOR NEW BRIDGE MOUNTED SIGNS, SEE "ROADWAY PLANS"
- ABBREVIATION:  
CFRP = CARBON FIBER REINFORCED POLYMER



**REPLACED PER ADDENDUM No. 3 DATED DECEMBER 18, 2015**

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

- NOTES:
- For "GENERAL NOTES", "INDEX TO PLANS", and "STANDARD PLANS LIST", see "INDEX TO PLANS" sheet.
  - For Electrical utilities, see "ROADWAY PLANS".

RICHARD MELKO DESIGN ENGINEER	DESIGN	BY MOHEY EL-MOUSLY	CHECKED MIKE VAN DE POL	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL 93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 9	BRIDGE NO.	27-0080	
	DETAILS	BY M. VAN DE POL/D. ELLIOTT	CHECKED MOHEY EL-MOUSLY	LAYOUT	BY MIKE VAN DE POL			CHECKED MOHEY EL-MOUSLY	POST MILE	13.7
	QUANTITIES	BY MOHEY EL-MOUSLY	CHECKED EVAN FRANCLISO	SPECIFICATIONS	BY WANDA WARD			CHECKED WANDA WARD		

**FREITAS PARKWAY OVERCROSSING**  
**BARRIER REPLACEMENT**  
**GENERAL PLAN**