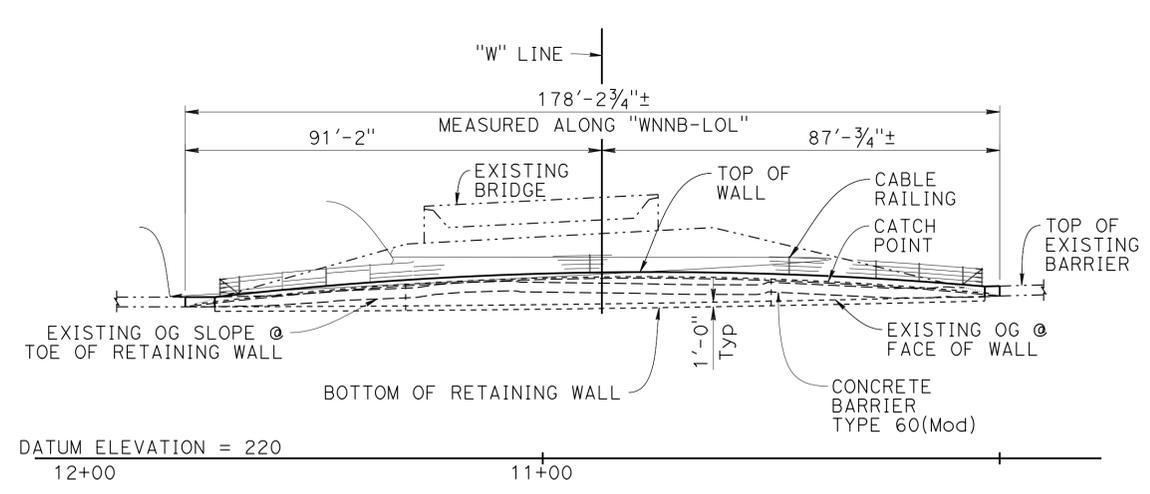
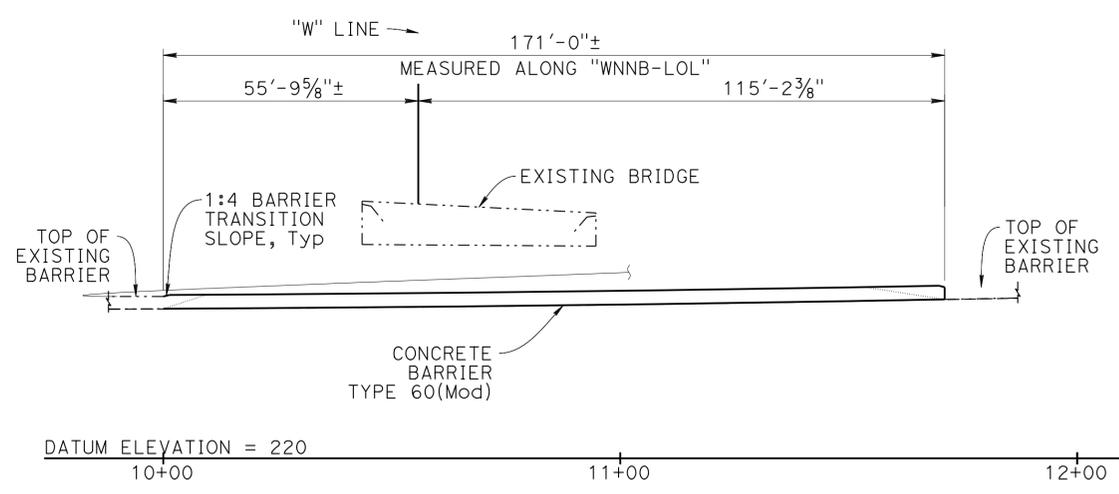


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	301	335
Michael R. Pope			06/21/2016	REGISTERED CIVIL ENGINEER DATE	
06-24-16			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					

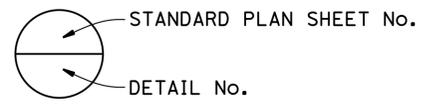


INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	STRUCTURE PLAN NO. 1
3.	STRUCTURE PLAN NO. 2
4.	TYPICAL SECTION
5.	MISCELLANEOUS DETAILS

STANDARD PLANS 2010

RSP 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 A76A	CONCRETE BARRIER TYPE 60
BO-3	BRIDGE DETAILS
B3-6	RETAINING WALL DETAILS NO. 2
RSP B11-47	CABLE RAILING



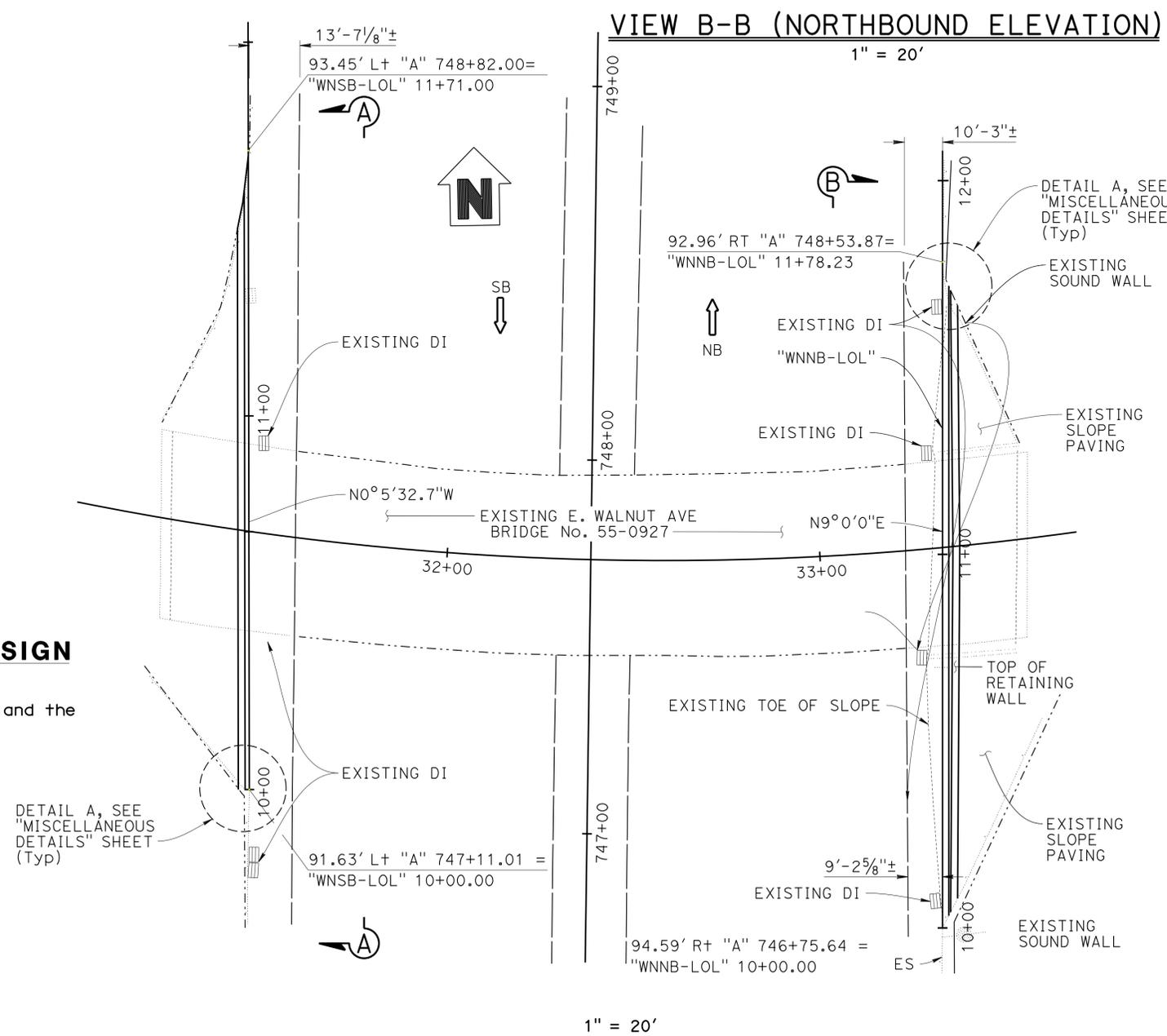
GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

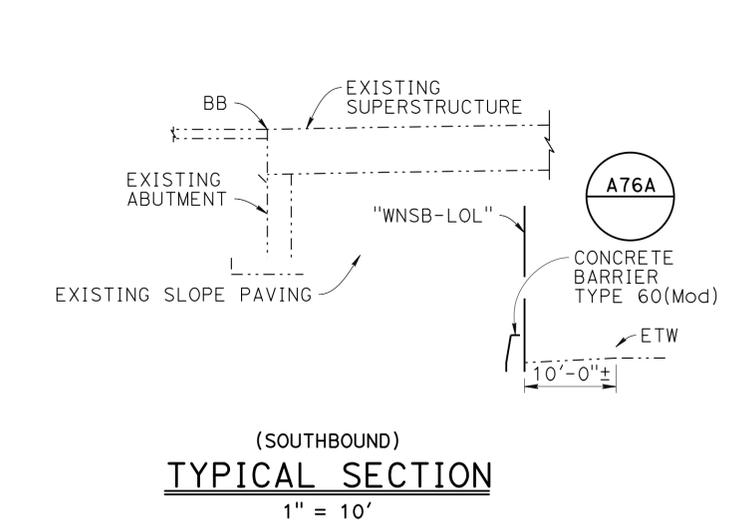
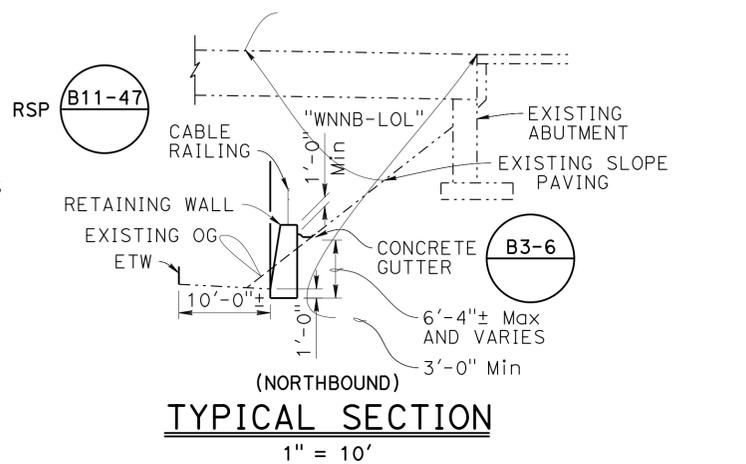
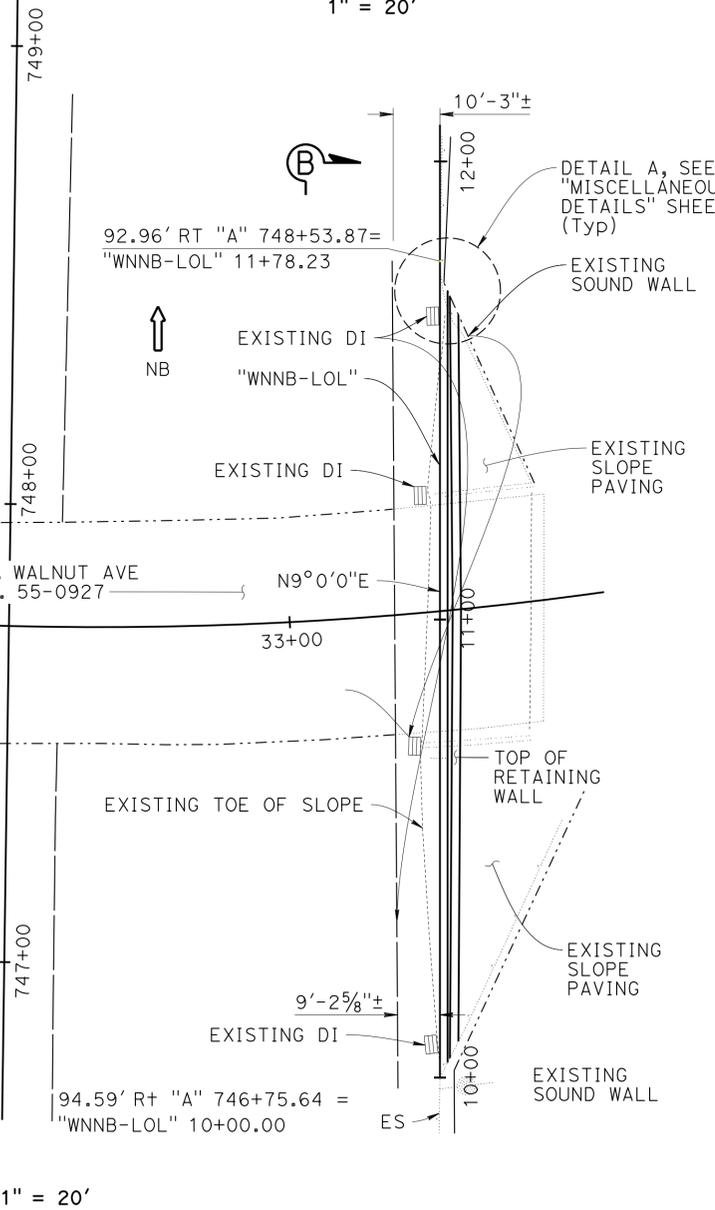
DESIGN:
AASHTO LRFD Bridge Design Specifications, 4th edition and the Caltrans Amendments, preface dated November 2014.

STRUCTURAL CONCRETE, RETAINING WALL:
 $f_y = 60 \text{ ksi}$
 $f'_c = 3.6 \text{ ksi}$
 $n = 8$

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



VIEW B-B (NORTHBOUND ELEVATION)



08 - LOCATION 94/95

QUANTITIES

MINOR CONCRETE (GUTTER) (CY)	6	CY
CABLE RAILING	171	LF
CONCRETE BARRIER (TYPE 60 MODIFIED)	349	LF

Michael Pope
DESIGN ENGINEER

DESIGN	BY J. Duffin	CHECKED Samad Hamoud	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY G. Souza	CHECKED Jerry Han	LAYOUT	BY Jeff Duffin
QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope	SPECIFICATIONS	BY Karen Doll

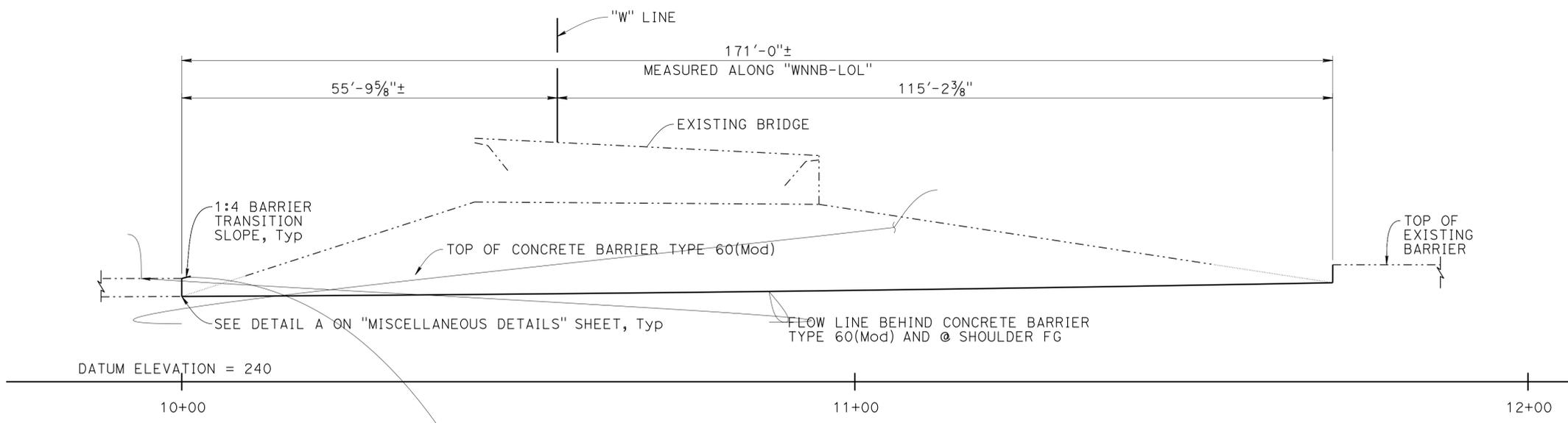
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
BRIDGE NO. N/A
POST MILE N/A
DESIGN BRANCH 18

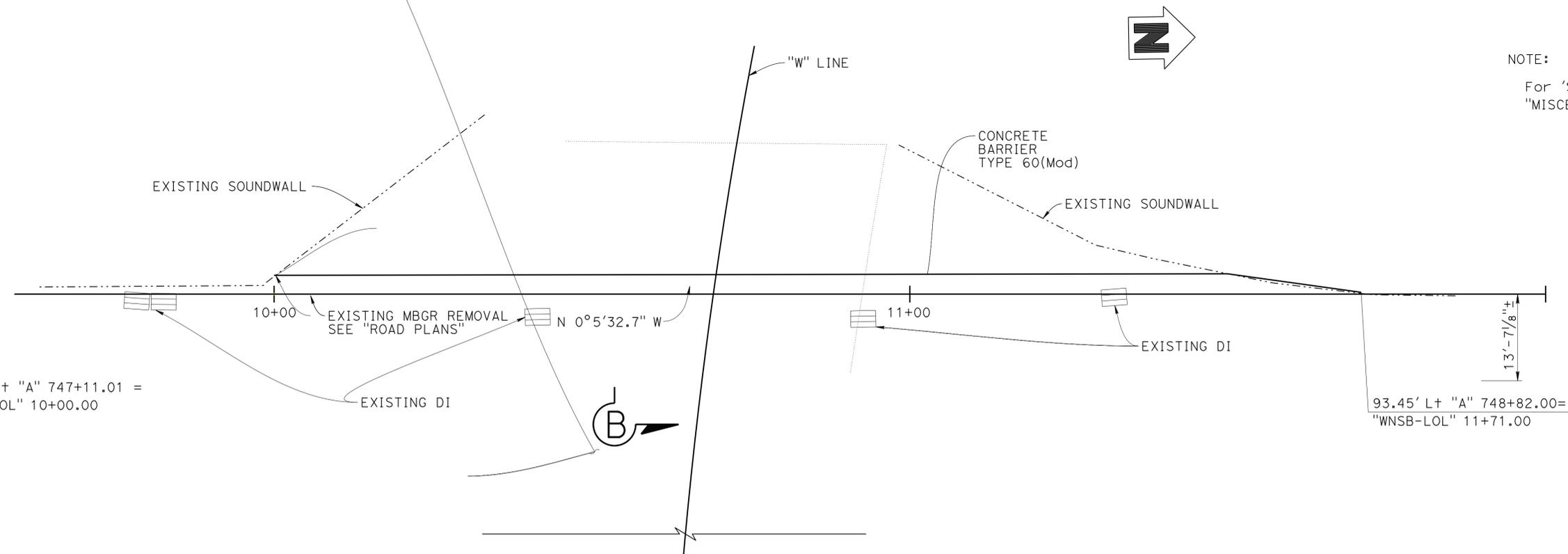
LOCATION 94/95
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	302	335

Michael R. Pope 06/21/2016
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
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SOUTHBOUND ELEVATION
1" = 10'



SOUTHBOUND PLAN
1" = 10'

NOTE:
For 'Section B-B, see
'MISCELLANEOUS DETAILS' sheet

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

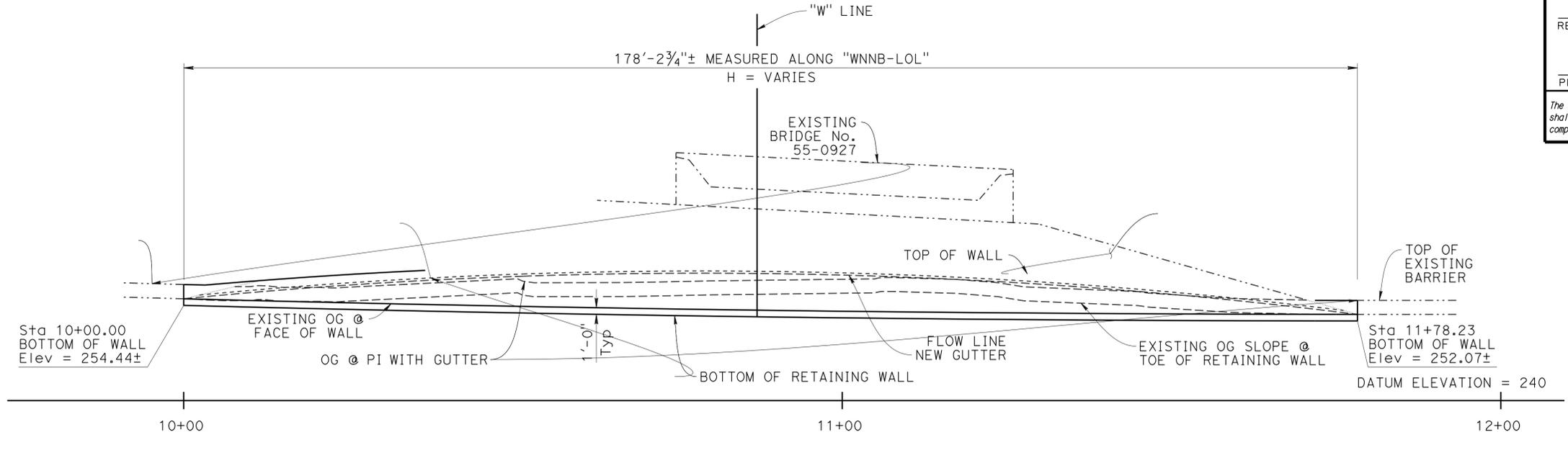
DESIGN	BY	J. Duffin	CHECKED	Samad Hamoud	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	N/A	LOCATION 94/95 STRUCTURE PLAN NO. 1		
	DETAILS	BY	G. Souza	CHECKED			Jeff Duffin	POST MILE		N/A	
	QUANTITIES	BY	Jeff Duffin	CHECKED			J. Han/ M. Pope				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	303	335

Michael R. Pope 06/21/2016
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

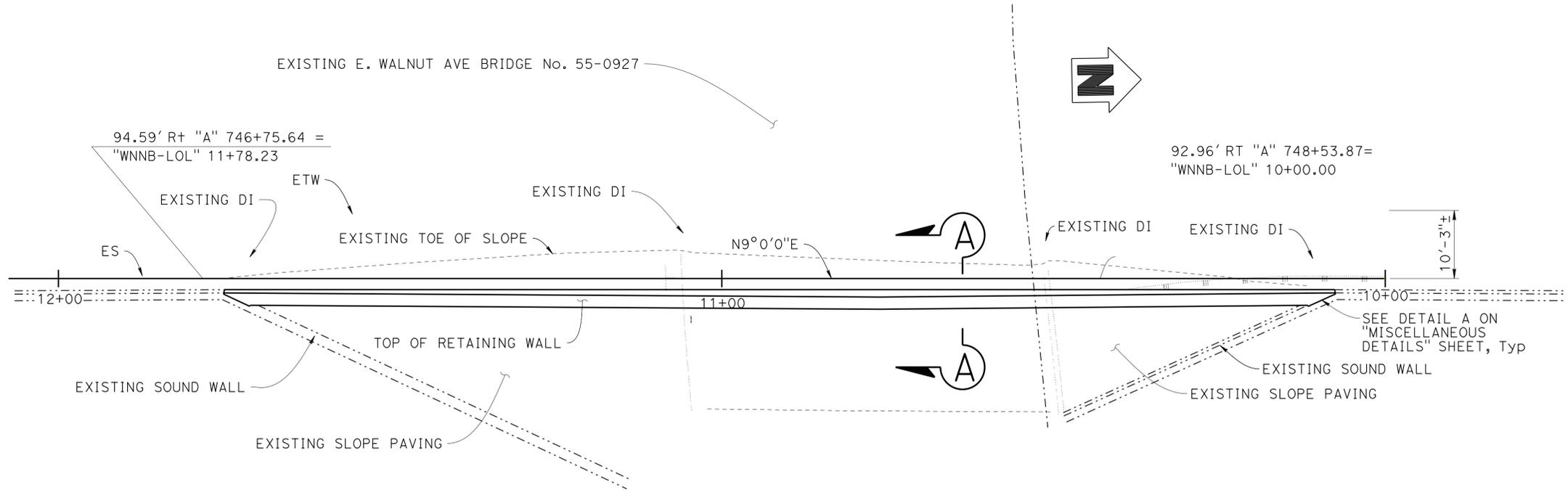
Michael R. Pope
 No. C54503
 Exp. 12-31-17
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TOP OF WALL	
STATION	Elev (ft)
10+00.00	257.60±
10+03.26	257.52±
10+07.06	257.83±
10+27.06	259.24±
10+47.06	260.16±
10+67.06	260.61±
10+87.06	260.58±
11+07.06	260.08±
11+27.06	259.11±
11+47.06	257.65±
11+67.06	255.72±
11+71.77	255.20±
11+78.23	255.19±

MIRRORED NORTHBOUND ELEVATION
 1" = 10'



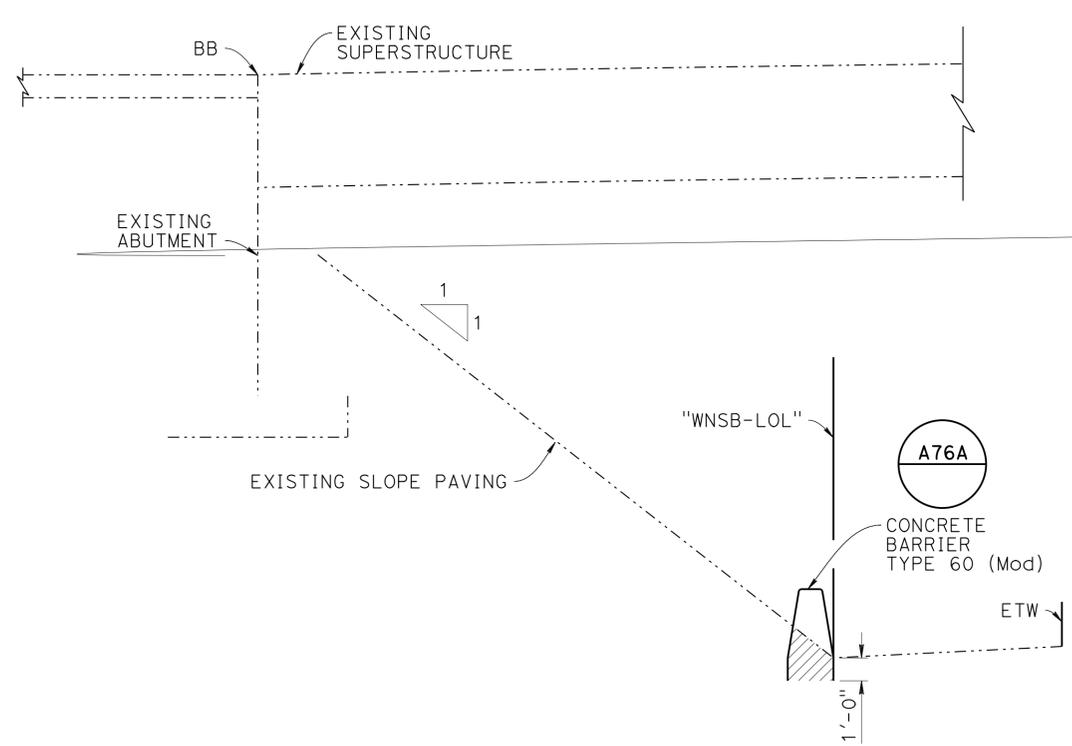
NOTE:
 For 'SECTION A-A', see
 "MISCELLANEOUS DETAILS" sheet

NORTHBOUND PLAN
 1" = 10'

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

DESIGN	BY	J. Duffin	CHECKED	Samad Hamoud	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	N/A	LOCATION 94/95 STRUCTURE PLAN NO. 2		
	DETAILS	BY	G. Souza	CHECKED			Jeff Duffin	POST MILE		N/A	
	QUANTITIES	BY	Jeff Duffin	CHECKED			J. Han/M. Pope				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 5

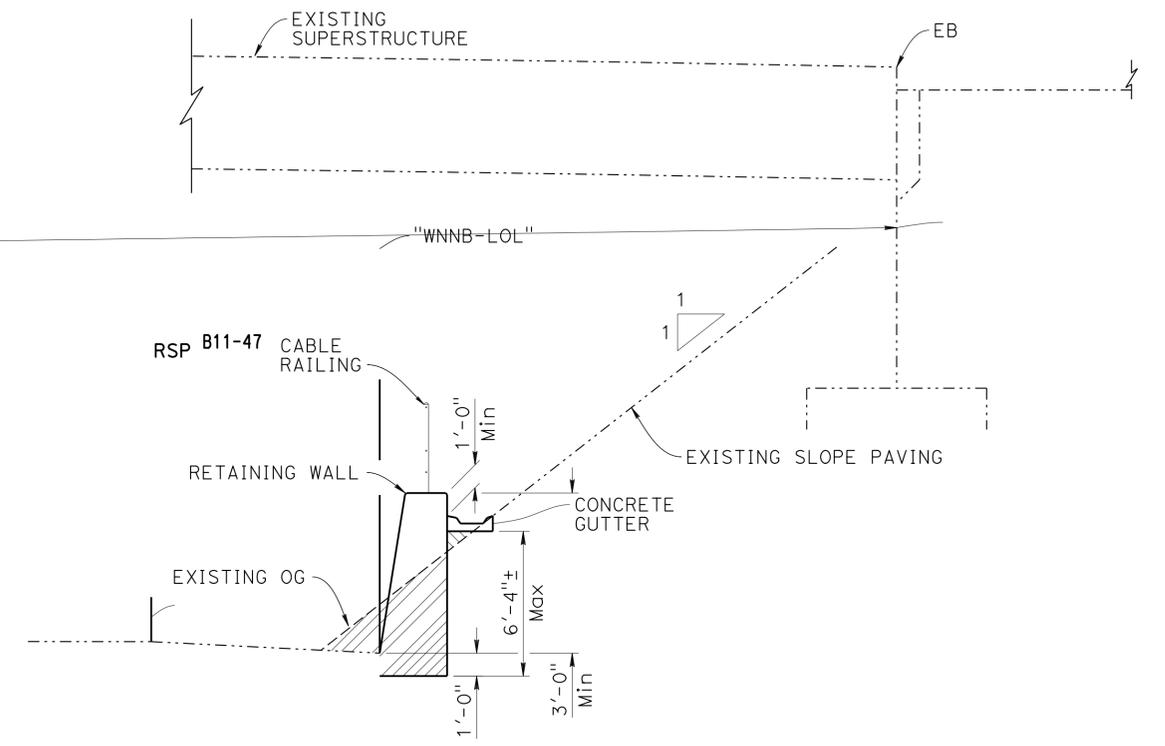
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	304	335
			06/21/2016		
REGISTERED CIVIL ENGINEER			DATE		
06-24-16			PLANS APPROVAL DATE		
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					



(SOUTHBOUND)

1/4" = 1'-0"

Legend:
 Indicates limits of payment for structural excavation



(NORTHBOUND)

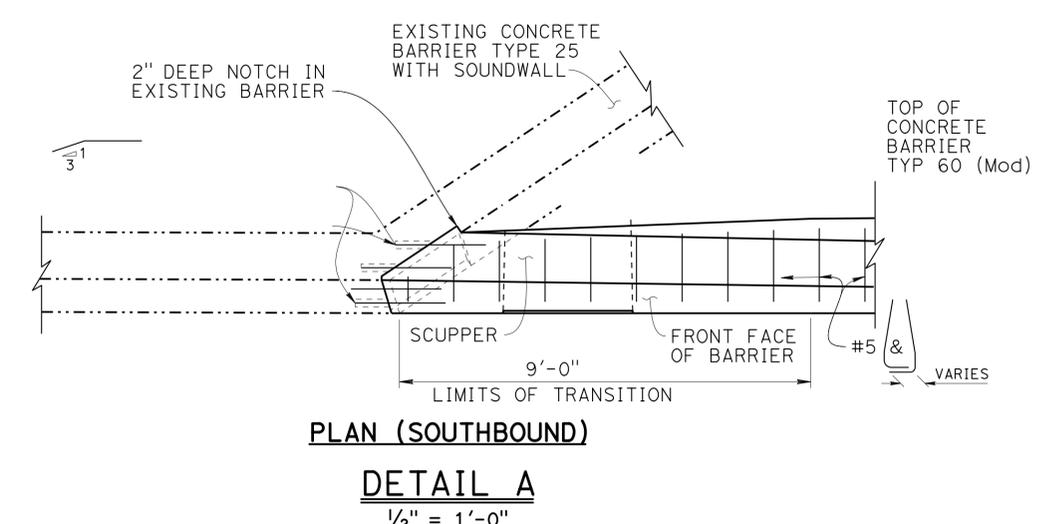
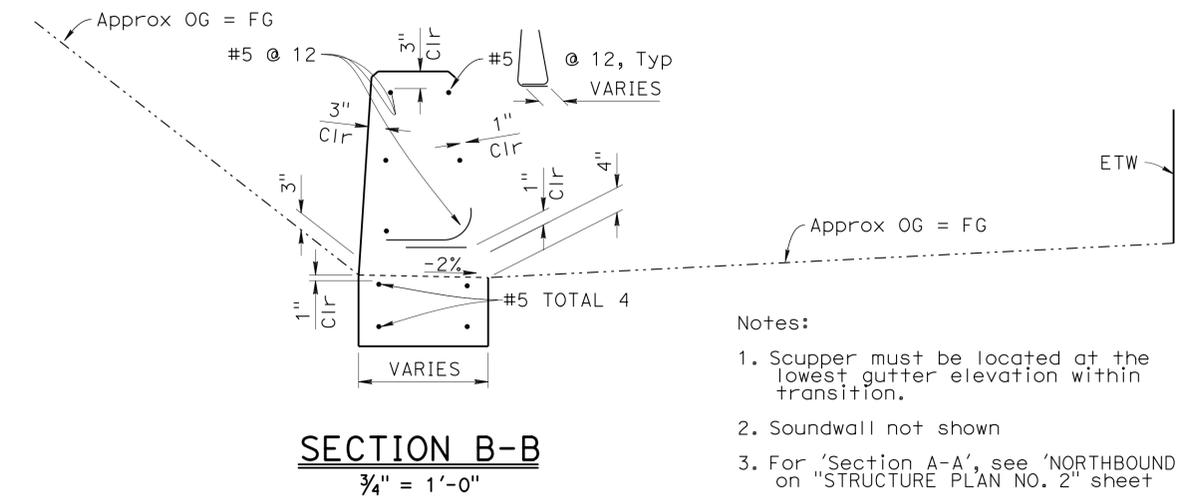
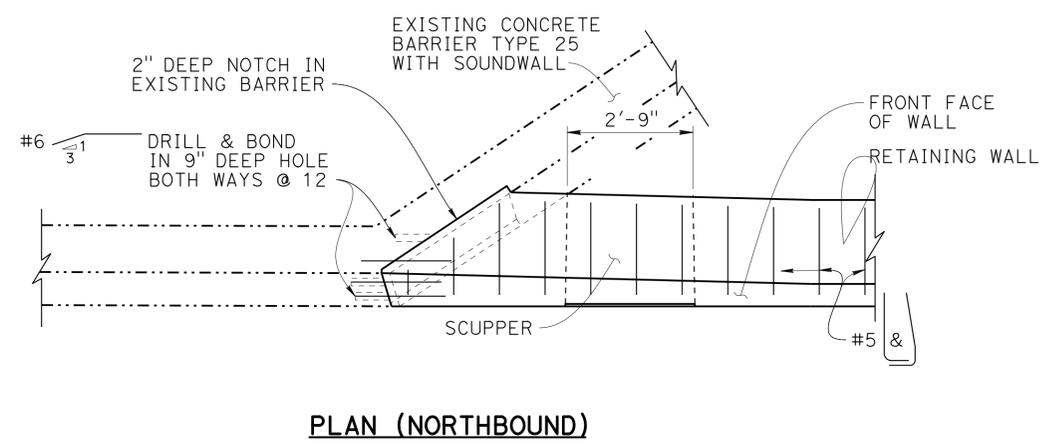
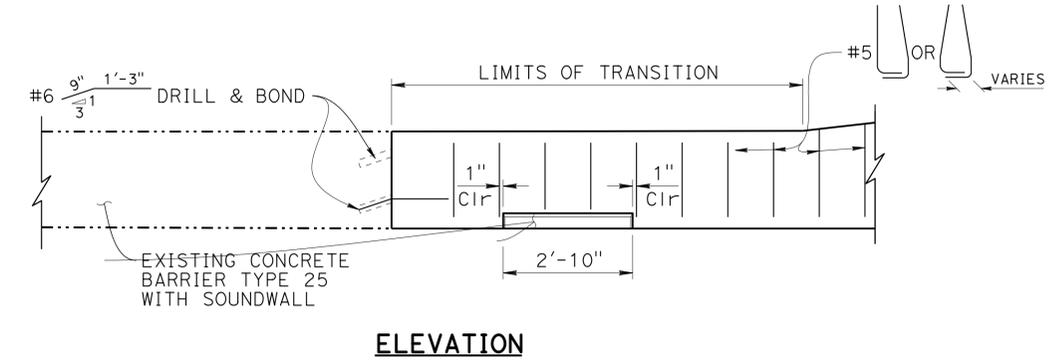
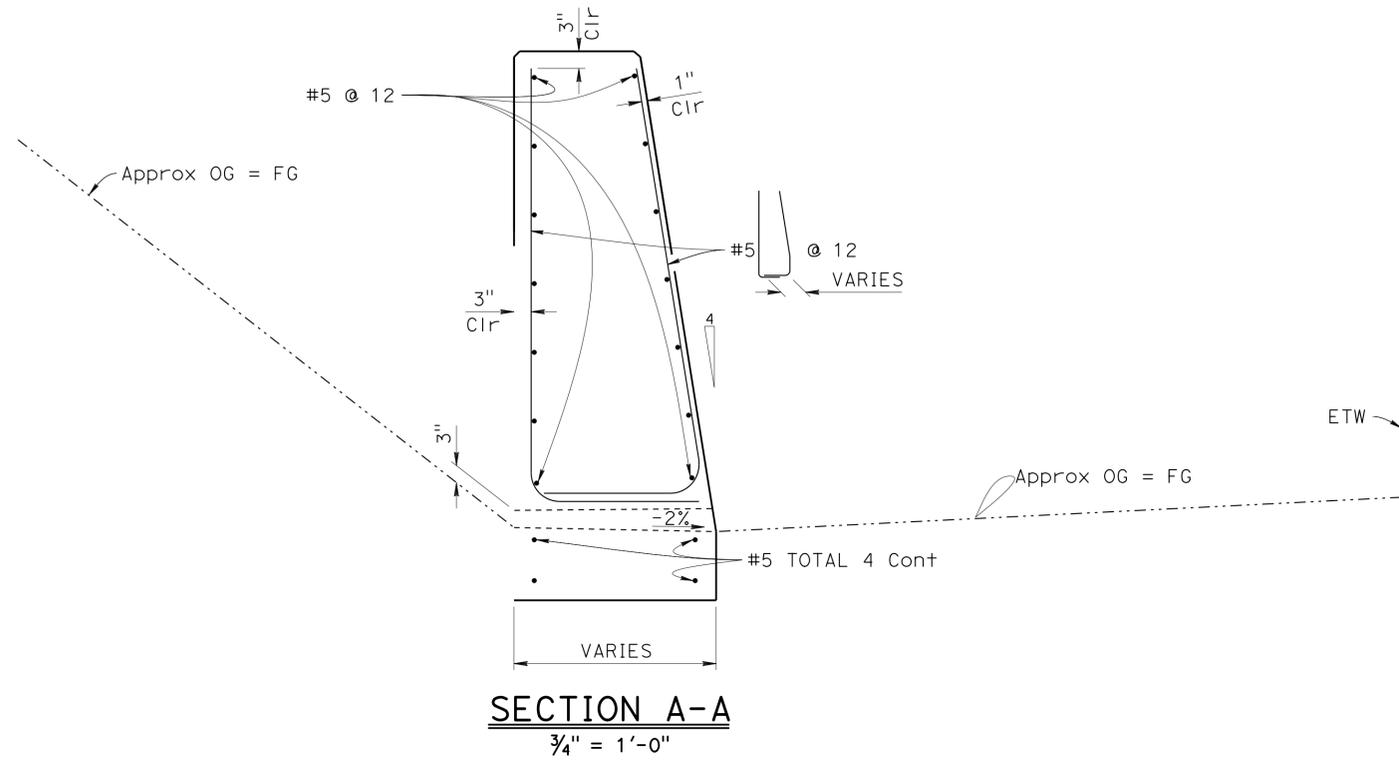
1/4" = 1'-0"

Legend:
 Indicates limits of payment for structural excavation
 Indicates limits of payment for structural backfill

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY J. Duffin	CHECKED	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	N/A	LOCATION 94/95 TYPICAL SECTION
	DETAILS	BY G. Souza	CHECKED Jeff Duffin			POST MILE	N/A	
	QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope					
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3603	PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 09-03-15, 09-28-15, 05-05-16
								SHEET 4 OF 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	305	335
Michael R. Pope REGISTERED CIVIL ENGINEER			06/21/2016 DATE		
06-24-16			PLANS APPROVAL DATE		
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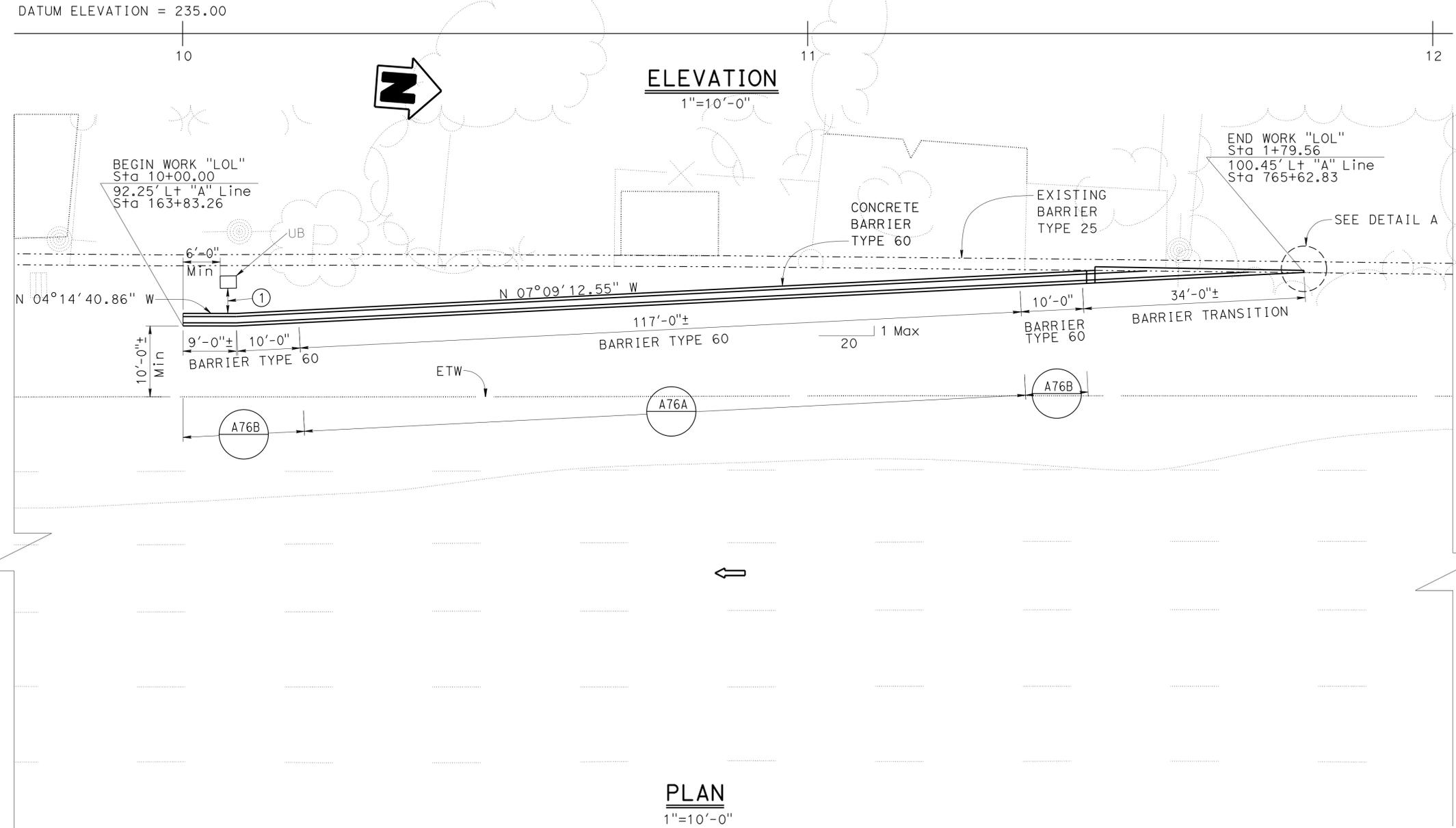
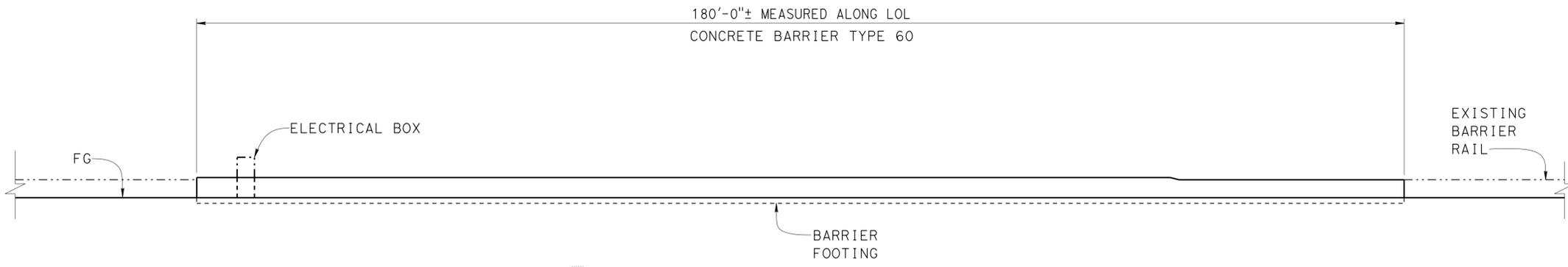
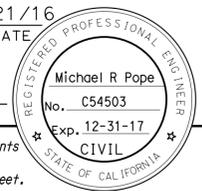


- Notes:
1. Scupper must be located at the lowest gutter elevation within transition.
 2. Soundwall not shown
 3. For 'Section A-A', see 'NORTHBOUND PLAN' on "STRUCTURE PLAN NO. 2" sheet
 4. For 'Section B-B', see 'SOUTHBOUND PLAN' on "STRUCTURE PLAN NO. 1" sheet

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

DESIGN BY J. Duffin CHECKED Samad Hamoud DETAILS BY G. Souza CHECKED Jeff Duffin QUANTITIES BY Jeff Duffin CHECKED J. Han/M. Pope	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO. N/A	LOCATION 94/95 MISCELLANEOUS DETAIL			
			POST MILE N/A				
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 5 OF 5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	306	335
			06/21/16		
REGISTERED CIVIL ENGINEER			DATE		
06-24-16			PLANS APPROVAL DATE		
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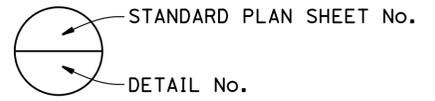


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1	GENERAL PLAN
2	MISCELLANEOUS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
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 A76A	CONCRETE BARRIER TYPE 60
A76B	CONCRETE BARRIER TYPE 60



- NOTES:
- Minimum clearance between Barrier Railing Electrocal Panel Box 3'-0"
 - For 'Detail A', see "MISCELLANEOUS DETAILS" sheet.

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH THE CALTRANS AMENDMENTS, PREFACE DATED NOVEMBER 2014.

STRUCTURAL STEEL (new construction):
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

QUANTITIES

CONCRETE BARRIER (TYPE 60)	146	LF
CONCRETE BARRIER TRANSITION	34	LF

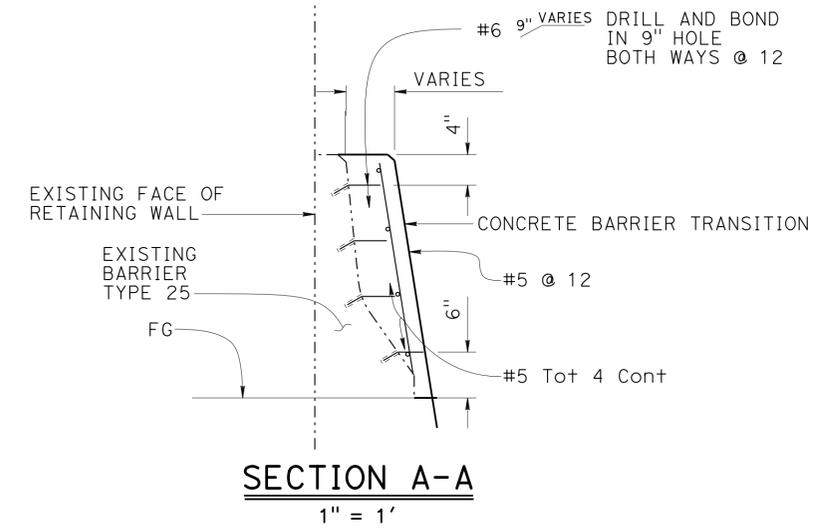
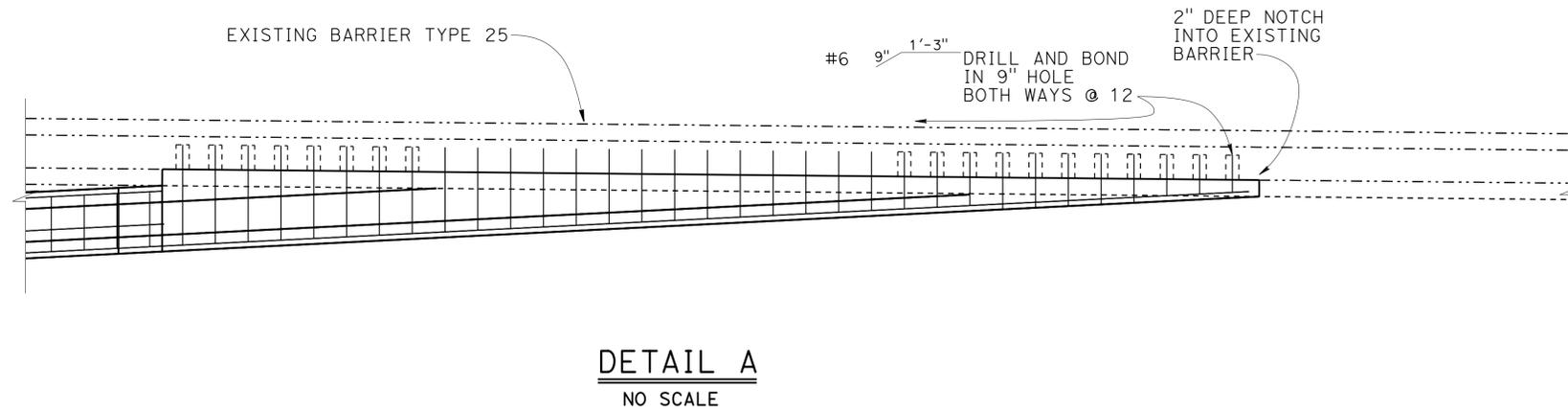
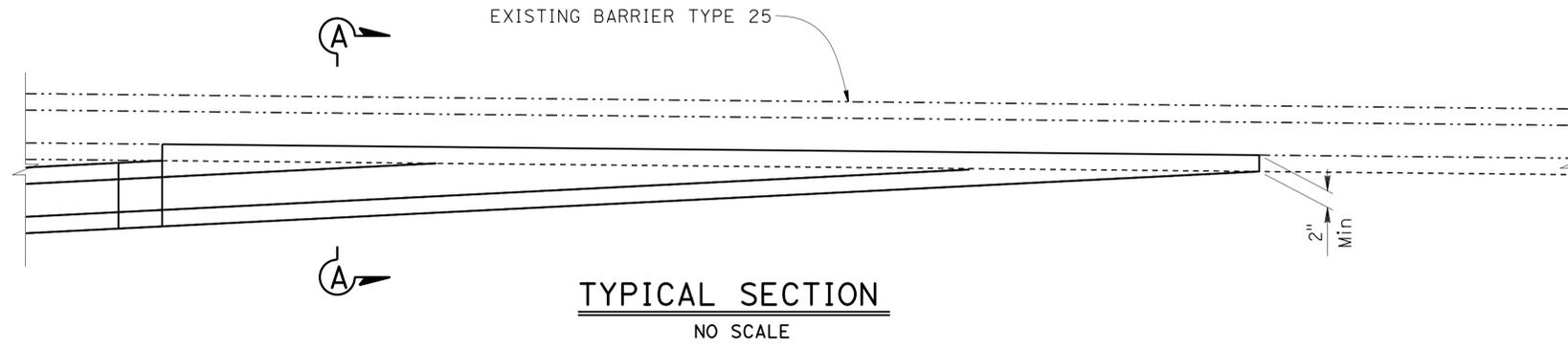
PLAN
1"=10'-0"

Michael Pope DESIGN ENGINEER	DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	LOCATION 98 GENERAL PLAN	
	DETAILS	BY Jaime Ramirez	CHECKED Jerry Han	LAYOUT	BY Jeff Duffin			CHECKED Samad Hamoud	POST MILE		X
	QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope	SPECIFICATIONS	BY Karen Doll			PLANS AND SPECS COMPARED	Mingxia Pan		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 10-30-15 06-16-16 06-17-16	SHEET 1 OF 2	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	307	335

Michael R. Pope 06/21/16
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

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STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	LOCATION 98 MISCELLANEOUS DETAILS
	DETAILS	BY Jaime Ramirez	CHECKED Jerry Han			POST MILE	X	
	QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope					
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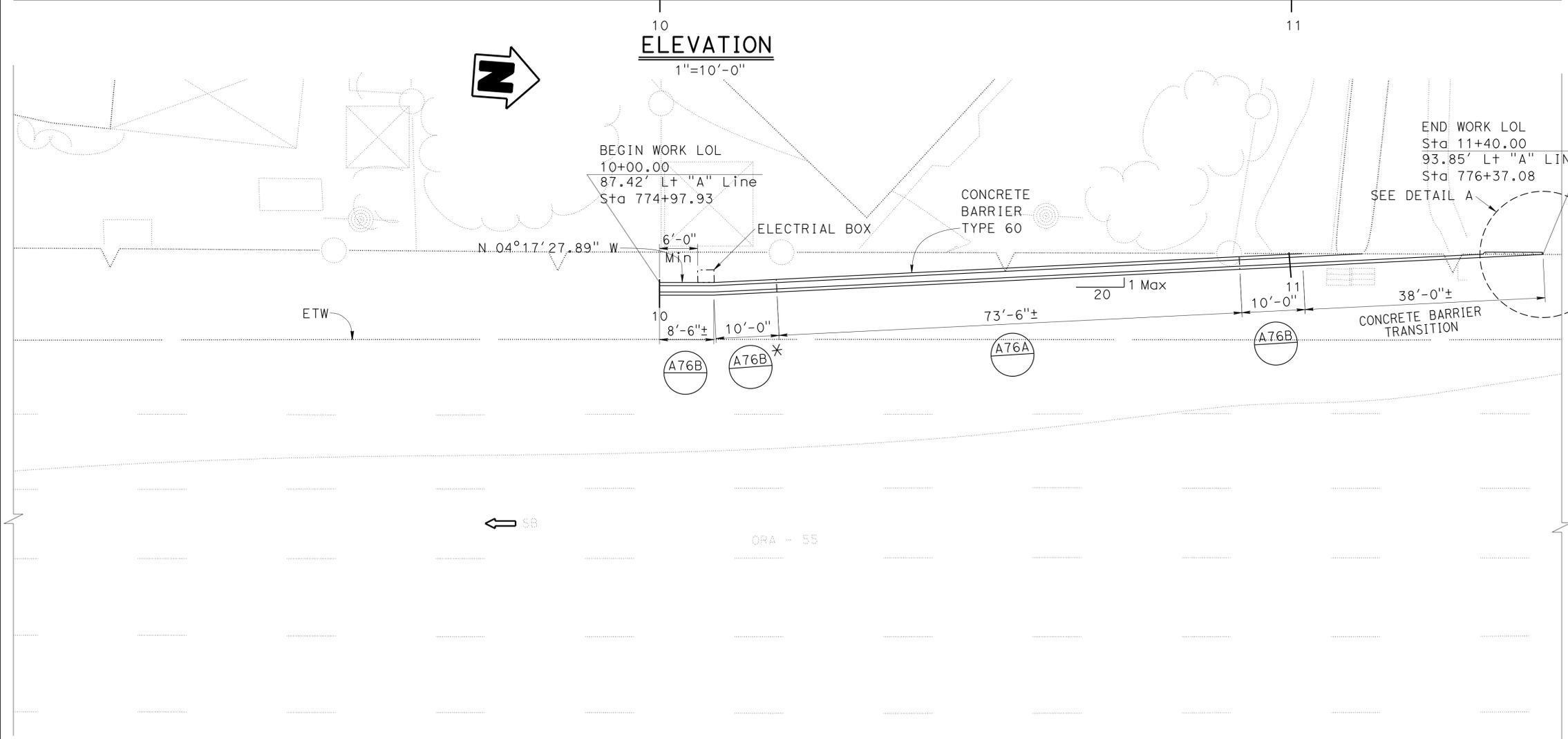
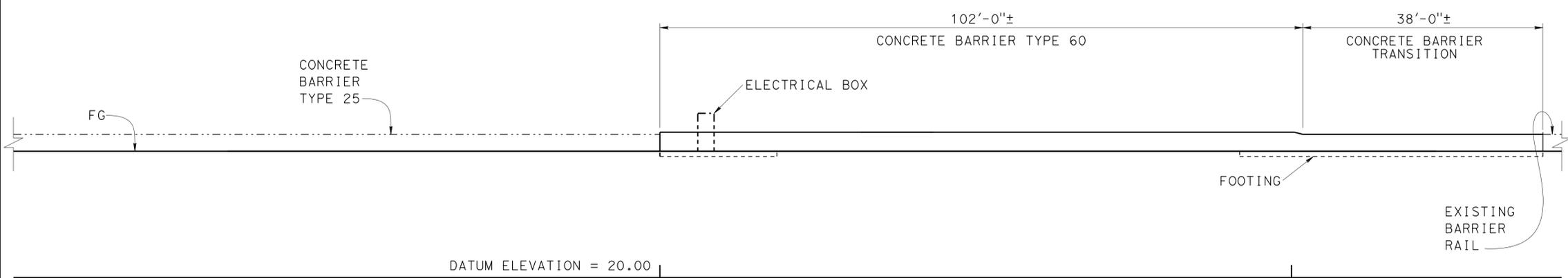
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	308	335

Michael R. Pope 06/21/2016
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

Michael R. Pope
 No. C54503
 Exp. 12-31-17
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 STATE OF CALIFORNIA

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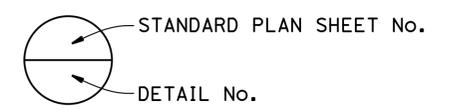
PLAN
1"=10'-0"

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	MISCELLANEOUS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
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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 A76A	CONCRETE BARRIER TYPE 60
A76B	CONCRETE BARRIER TYPE 60



NOTES:
1. For 'Detail A', see "MISCELLANEOUS DETAILS" sheet

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH THE CALTRANS AMENDMENTS, PREFACE DATED NOVEMBER 2014.

STRUCTURAL CONCRETE (new construction):

$f_y = 60 \text{ ksi}$
 $f'_c = 3.6 \text{ ksi}$
 $n = 8$

10 - LOCATION 99

QUANTITIES

CONCRETE BARRIER (TYPE 60)	102	LF
CONCRETE BARRIER TRANSITION	38	LF

Michael Pope
DESIGN ENGINEER

DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud
DETAILS	BY Jaime Ramirez	CHECKED Jerry Han
QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope

LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
LAYOUT	BY Jeff Duffin
SPECIFICATIONS	BY Karen Doll

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	14.68

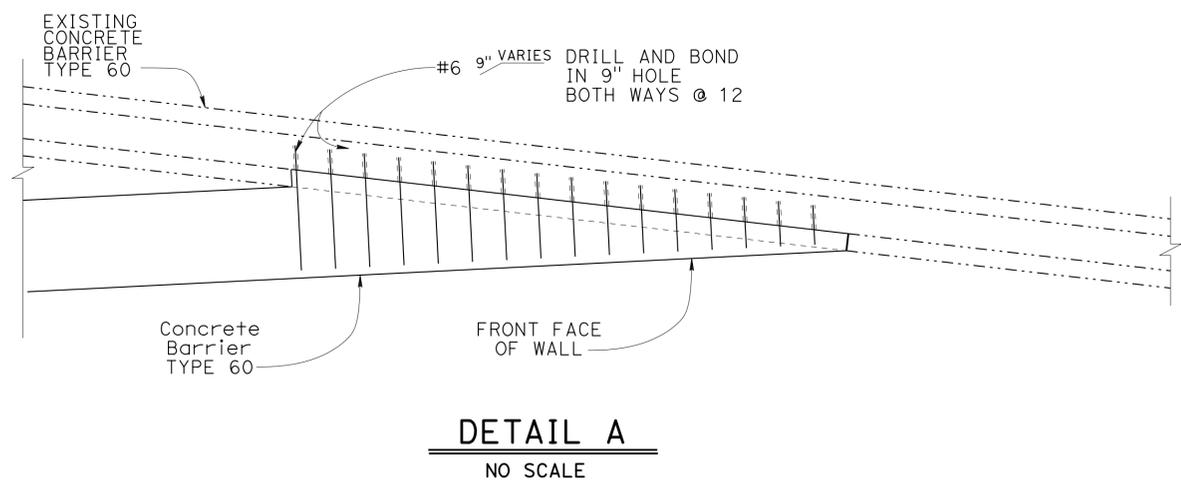
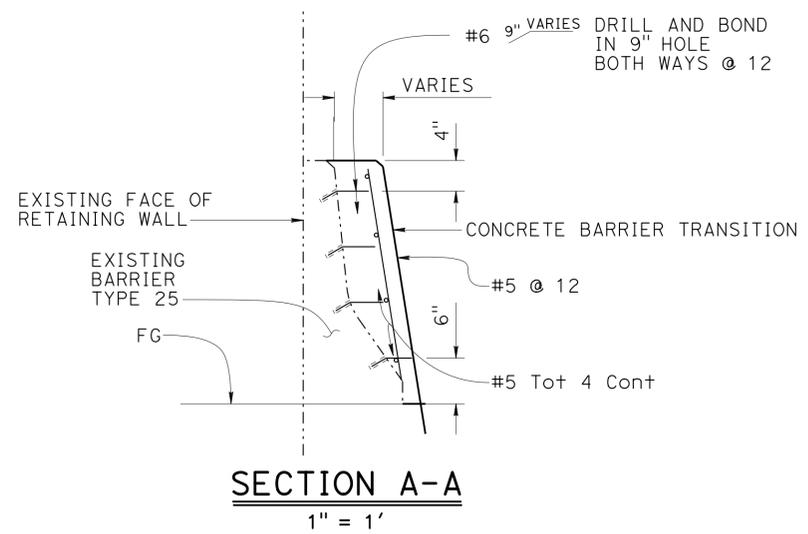
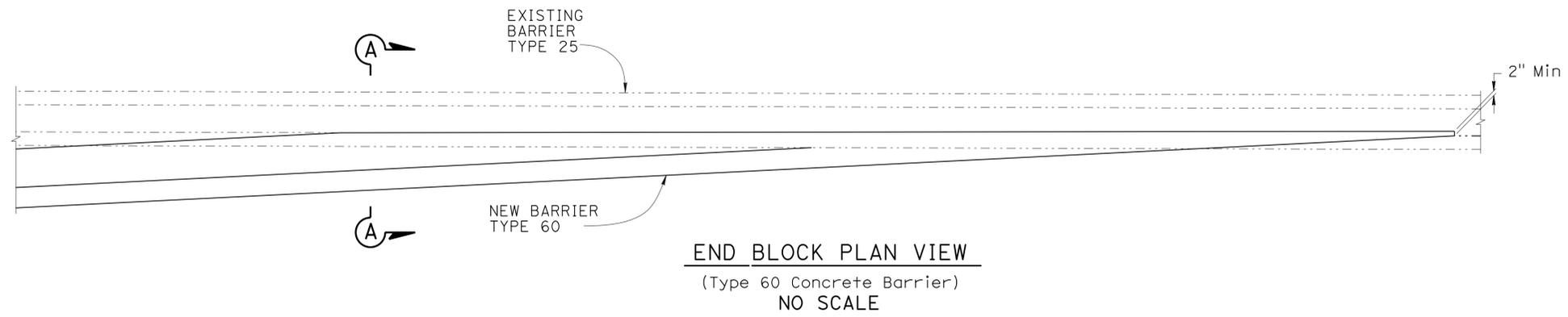
LOCATION 99
GENERAL PLAN

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	309	335

Michael R. Pope 06/21/2016
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

Michael R. Pope
 No. C54503
 Exp. 12-31-17
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 STATE OF CALIFORNIA

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DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud
DETAILS	BY Jaime Ramirez	CHECKED Jerry Han
QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

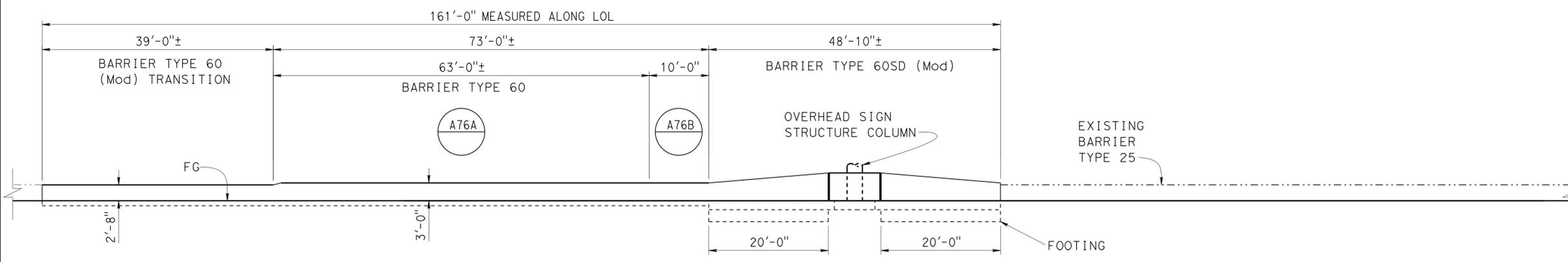
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	14.68

LOCATION 99
MISCELLANEOUS DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	310	335

Michael R. Pope 06/21/2016
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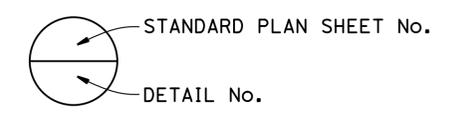
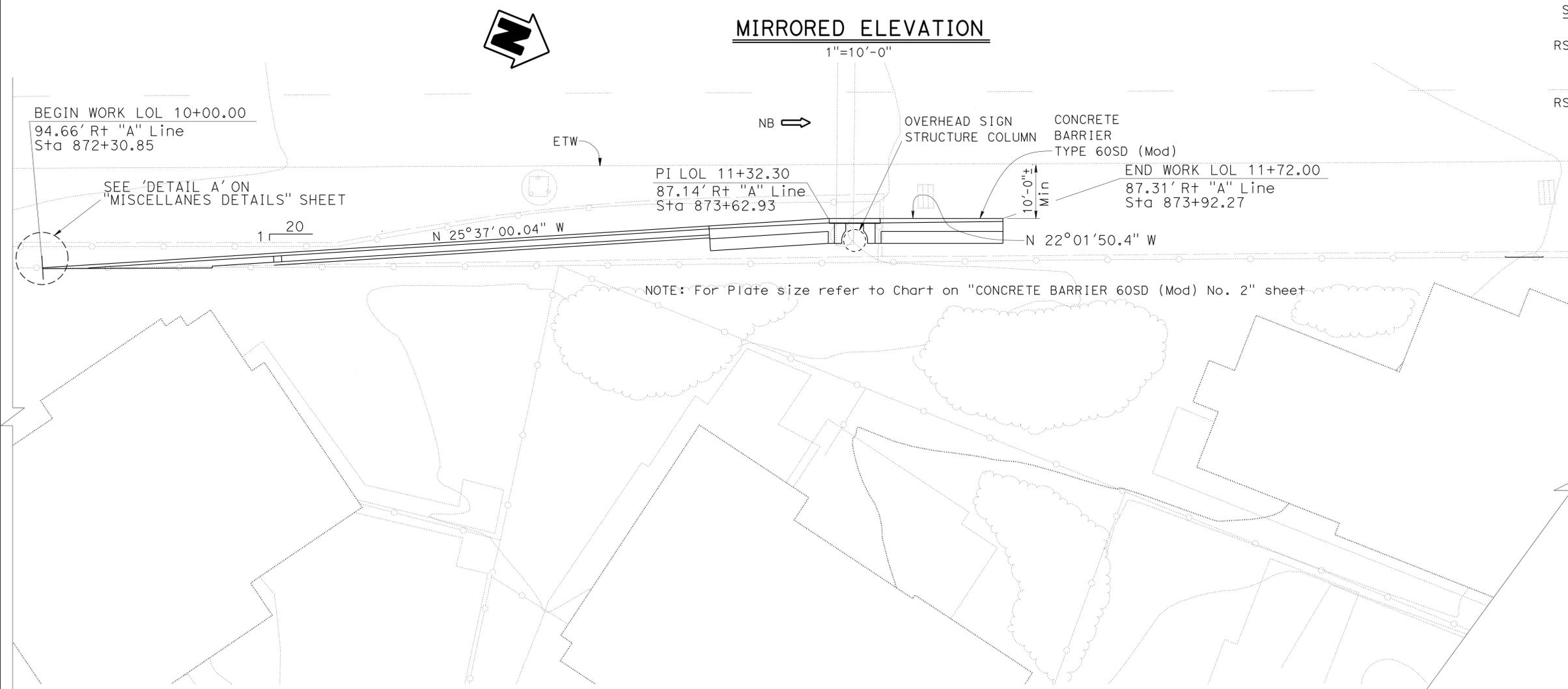
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INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	CONCRETE BARRIER TYPE 60SD (Mod) NO 1
3	CONCRETE BARRIER TYPE 60SD (Mod) NO 2
4	MISCELLANEOUS DETAILS

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
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 A76A	CONCRETE BARRIER TYPE 60
A76B	CONCRETE BARRIER TYPE 60
BO-3	BRIDGE DETAILS



GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH THE CALTRANS AMENDMENTS, PREFACE DATED NOVEMBER 2014.
STRUCTURAL CONCRETE (new construction):
 fy = 60 ksi
 f'c = 3.6 ksi
 n = 8

PLAN
1"=10'-0"

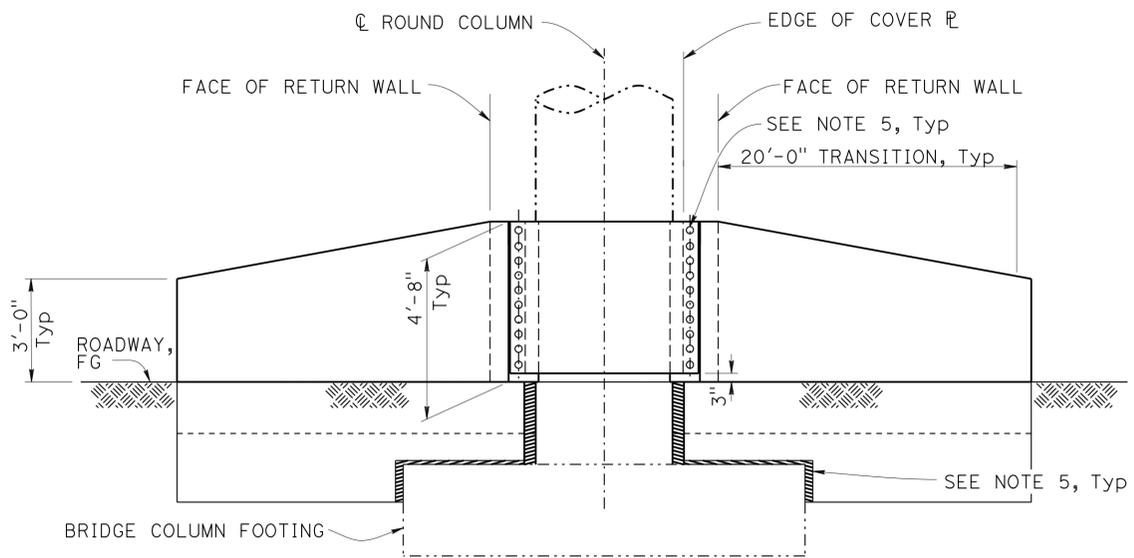
Michael Pope DESIGN ENGINEER	DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	LOCATION 117 GENERAL PLAN			
	DETAILS	BY Jaime Ramirez	CHECKED Jerry Han	LAYOUT	BY Jeff Duffin			CHECKED Samad Hamoud		POST MILE		
	QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope	SPECIFICATIONS	BY Karen Doll			CHECKED X		16.50		
FILE => loc117-a-gpa_gp-sheet.dgn						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 7/16/15 5/7/16 6/16/16	SHEET 1 OF 4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	311	335

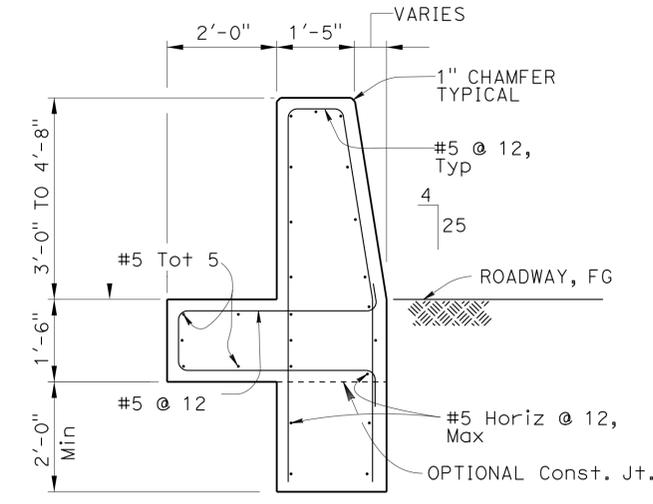
REGISTERED CIVIL ENGINEER
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

06/21/2016
 DATE
 06-24-16
 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.

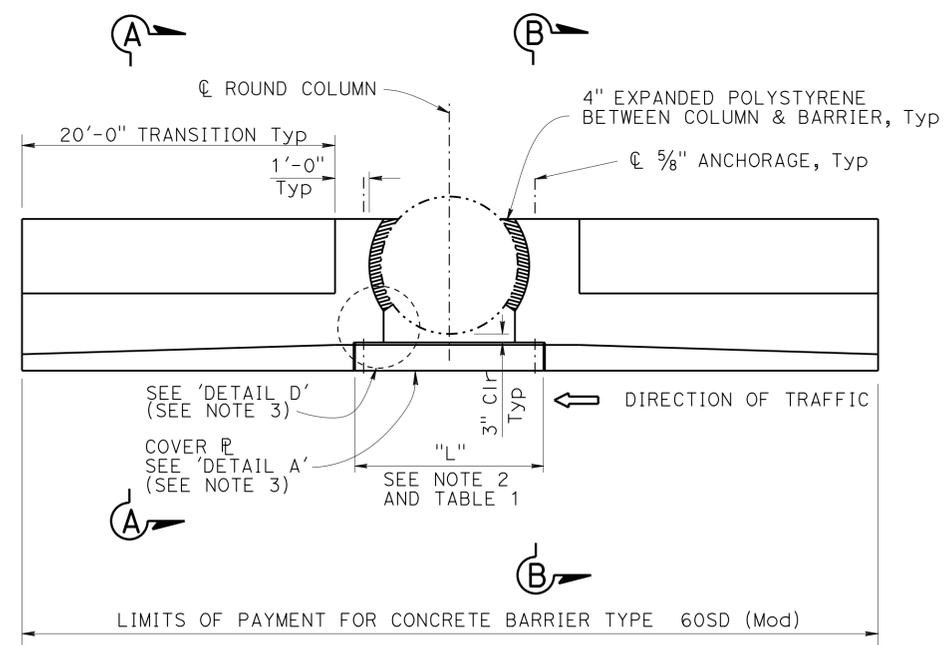


ELEVATION
NO SCALE

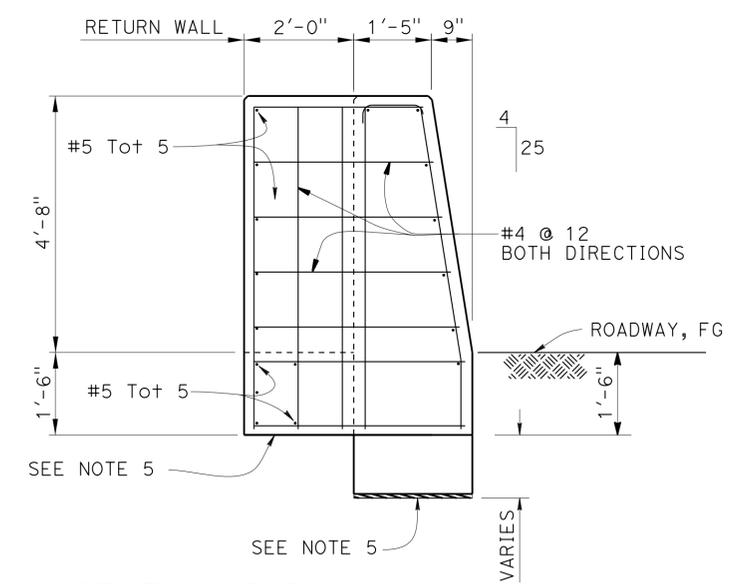


SECTION A-A
NO SCALE

- NOTES:**
1. See "ROADWAY PLANS" for exact alignment of Barrier.
 2. For 'Detail A', 'Detail D', Table 1, and 'Backfill Details', see "CONCRETE BARRIER TYPE 60SD (Mod)-TRANSITION AT BRIDGE COLUMN-DETAILS No. 2" sheet.
 3. Maintain 4" (Min) Styrene to existing Structure.
 4. Where existing bridge footing is encountered, apply 1" Styrene bond breaker between bridge top of footing and new structure; apply 2" Styrene bond breaker between bridge to side of footing and new structure.
 5. All plates & connections must be galvanized.

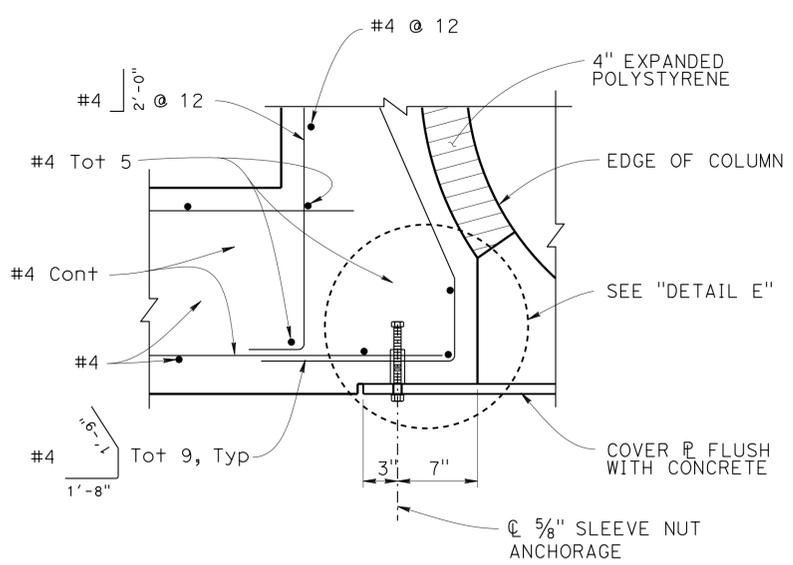


PLAN
NO SCALE

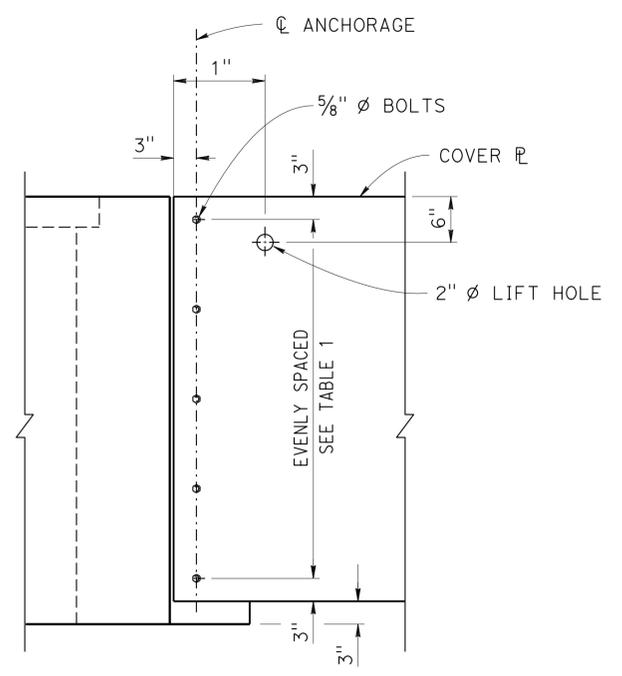


SECTION B-B
NO SCALE

DESIGN BY JEFF DUFFIN CHECKED Samad Hamoud DETAILS BY Jaime Ramirez CHECKED Jerry Han QUANTITIES BY Jeff Duffin CHECKED J. Han/M. Pope			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO. X POST MILE 16.50	LOCATION 117 CONCRETE BARRIER TYPE 60SD (Mod) TRANSITION AT BRIDGE COLUMN-DETAILS NO.1
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES
FILE => loc117-g-det1_detail-sheet.dgn			0 1 2 3	REVISION DATES: 2-16-16, 6-7-16	SHEET 2 OF 4	USERNAME => 8111173 DATE PLOTTED => 31-AUG-2016 08:39 TIME PLOTTED =>



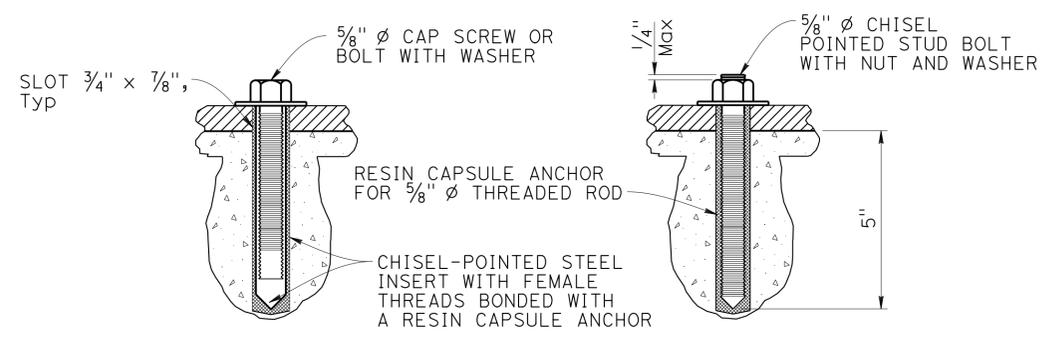
DETAIL D
1/2" = 1'-0"



DETAIL F
NO SCALE

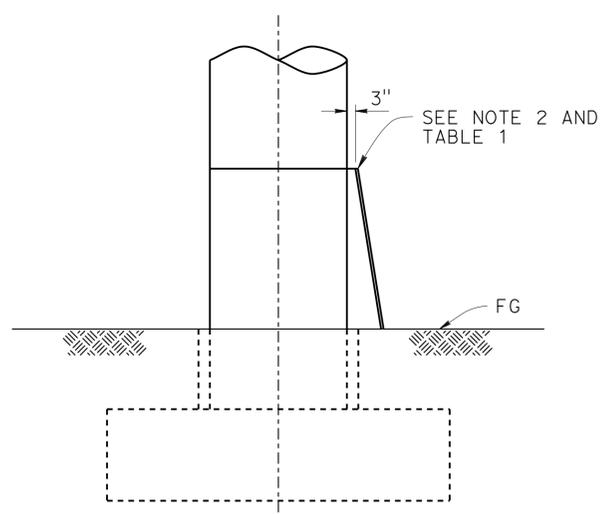
L (ft+) (NOTE 1)	PLATE THICKNESS (in)	TOTAL No. OF BOLTS
8'-6" Max	7/8	10

- NOTES:
- Structural steel, $f = 50,000$ psi Unless otherwise noted.
 - For 'Detail A', see 'Plan' on sheet "TRANSITION AT BRIDGE COLUMN-DETAILS NO. 1"
 - For 'Detail B', see 'Plan' on sheet "TRANSITION AT BRIDGE COLUMN-DETAILS NO. 1"

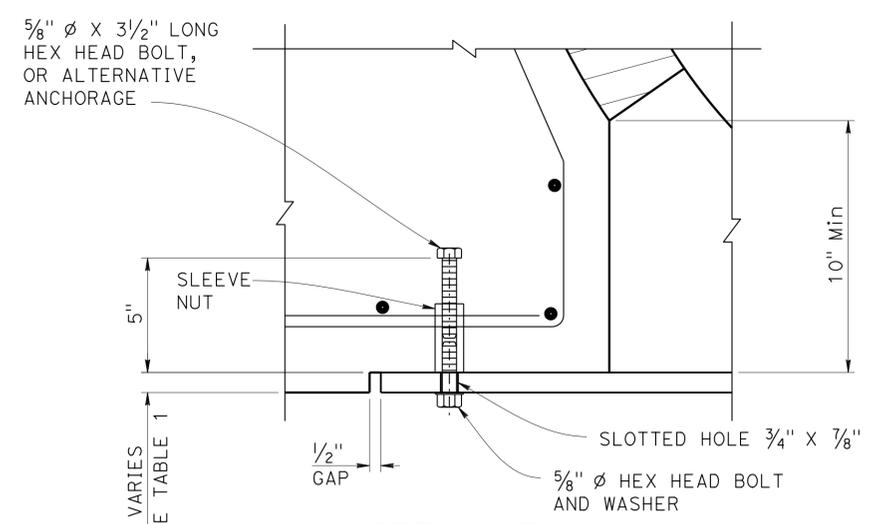


ALTERNATIVE A **ALTERNATIVE B**

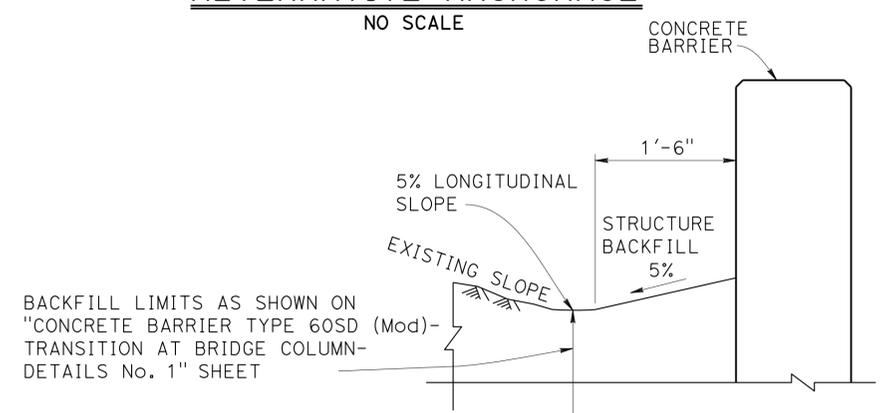
ALTERNATIVE ANCHORAGE
NO SCALE



DETAIL A
NO SCALE



DETAIL E
3" = 1'-0"



BACKFILL LIMITS AS SHOWN ON "CONCRETE BARRIER TYPE 60SD (Mod)-TRANSITION AT BRIDGE COLUMN-DETAILS No. 1" SHEET

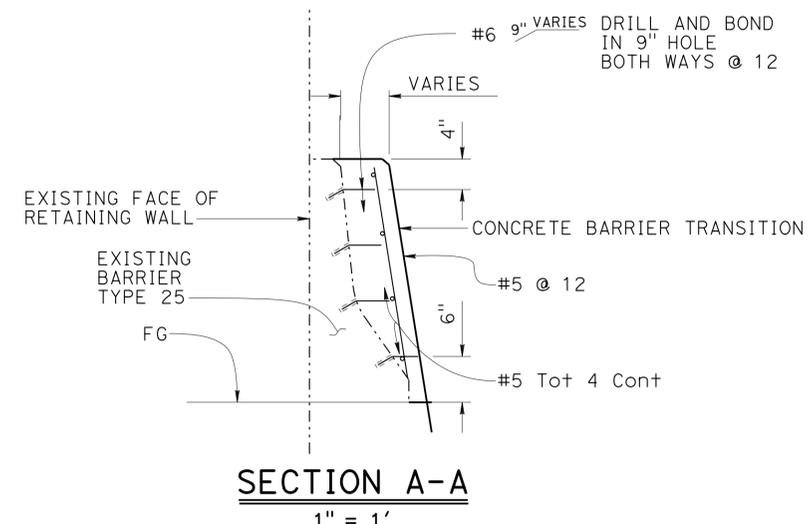
BACKFILL DETAIL
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	313	335

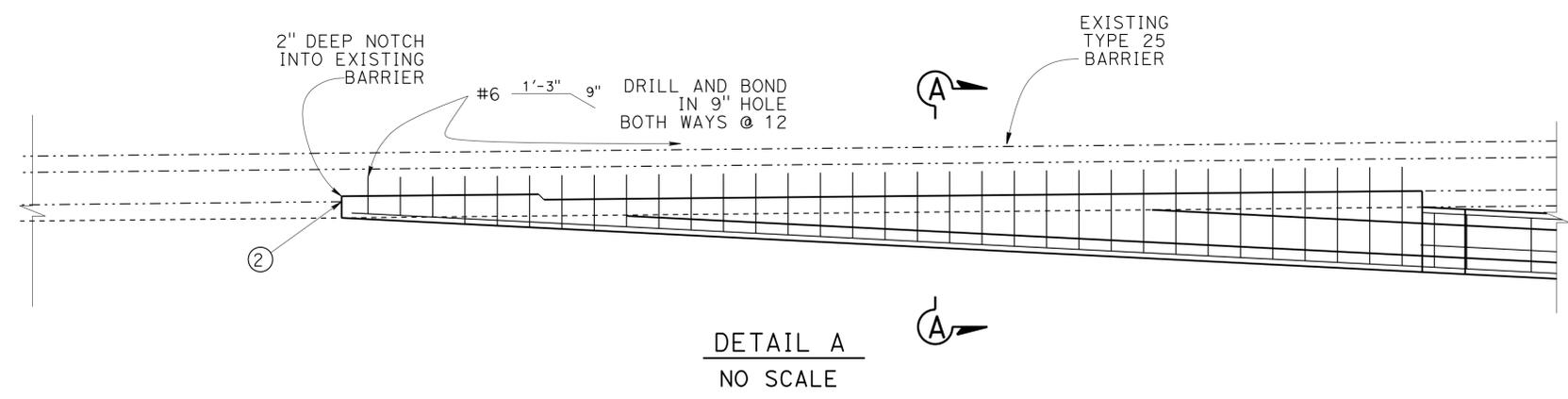
Michael R. Pope 06/21/2016
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

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NOTE:
 FOR 'DETAIL A' SEE 'PLAN' ON SHEET "GENERAL PLAN"



DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud
DETAILS	BY Jaime Ramirez	CHECKED Jerry Han
QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	16.50

LOCATION 117
MISCELLANEOUS DETAILS

INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	STRUCTURE PLAN NO.1
3	STRUCTURE PLAN NO.2
4	GORE END BLOCK CONNECTION DETAILS NO.1 MGS
5	MGS END BLOCK CONNECTION DETAILS NO.2

STANDARD PLANS DATED 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
A10C	LINE SYMBOLS (SHEET 1 OF 3)
A10D	LINE SYMBOLS (SHEET 2 OF 3)
A10E	LINE SYMBOLS (SHEET 3 OF 3)
RSP A76A	CONCRETE BARRIER TYPE 60
A78I	CONNECTION TO CONCRETE BARRIER

DESIGN:

AASHTO LRFD Bridge Design Specifications, 4th edition with the Caltrans Amendments, preface dated November 2014.

STRUCTURAL CONCRETE (NEW CONSTRUCTION):

$f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

QUANTITIES

REMOVE CONCRETE BARRIER	5 LF
CONCRETE BARRIER (GORE BLOCK)	42 LF
CONCRETE BARRIER TRANSITION	17 LF

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	314	335

Michael R Pope 06/21/16
 REGISTERED CIVIL ENGINEER DATE

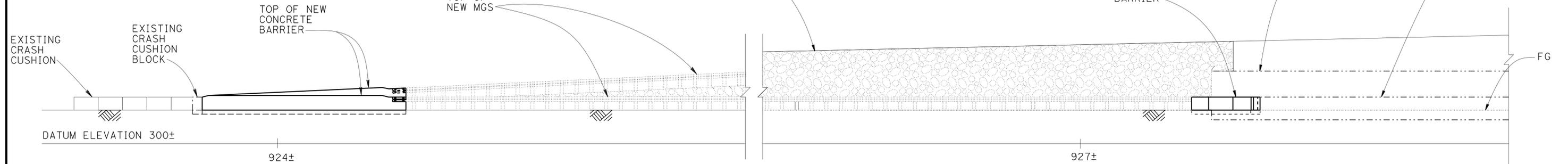
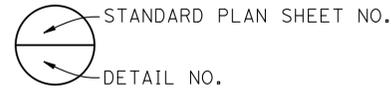
06-24-16
 PLANS APPROVAL DATE

Michael R Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

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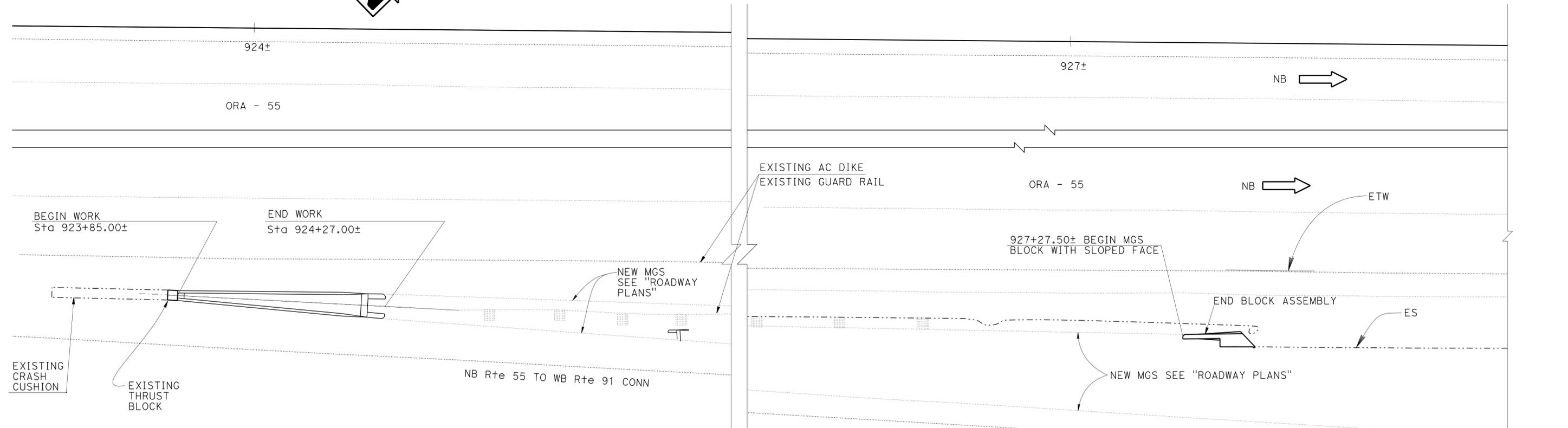
LEGEND

----- INDICATES EXISTING
 _____ INDICATES NEW



MIRRORED ELEVATION

1" = 20'



PLAN

1" = 20'

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

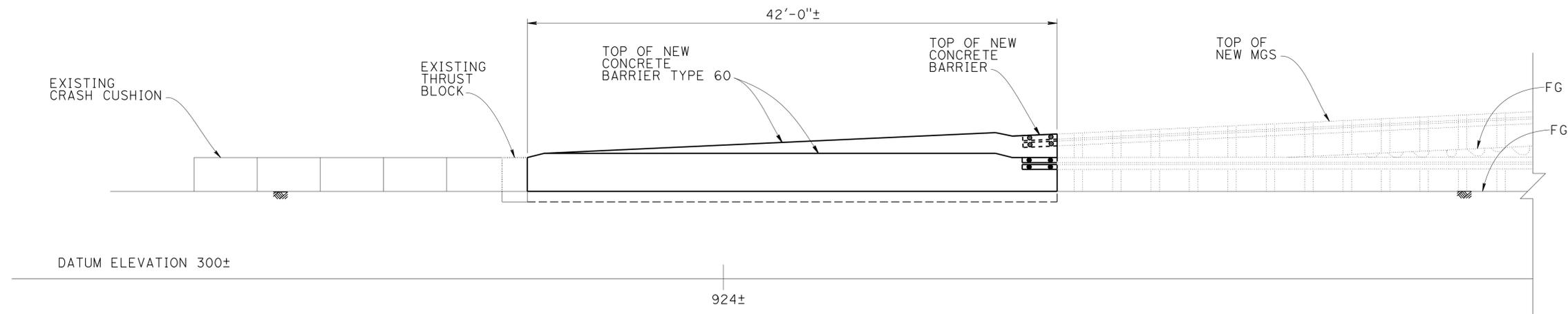
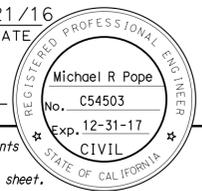
MICHAEL POPE DESIGN ENGINEER	DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	LOCATION 135 GENERAL PLAN	
	DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN	LAYOUT	BY JEFF DUFFIN			CHECKED SAMAD HAMOUD	POST MILE		17.49-17.58
	QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE	SPECIFICATIONS	BY Karen Doll			PLANS AND SPECS COMPARED MINGXIA PAN	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921		CONTRACT NO.: 12-0M5004

FILE => loc135-a-gp_gp-sheet.dgn ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

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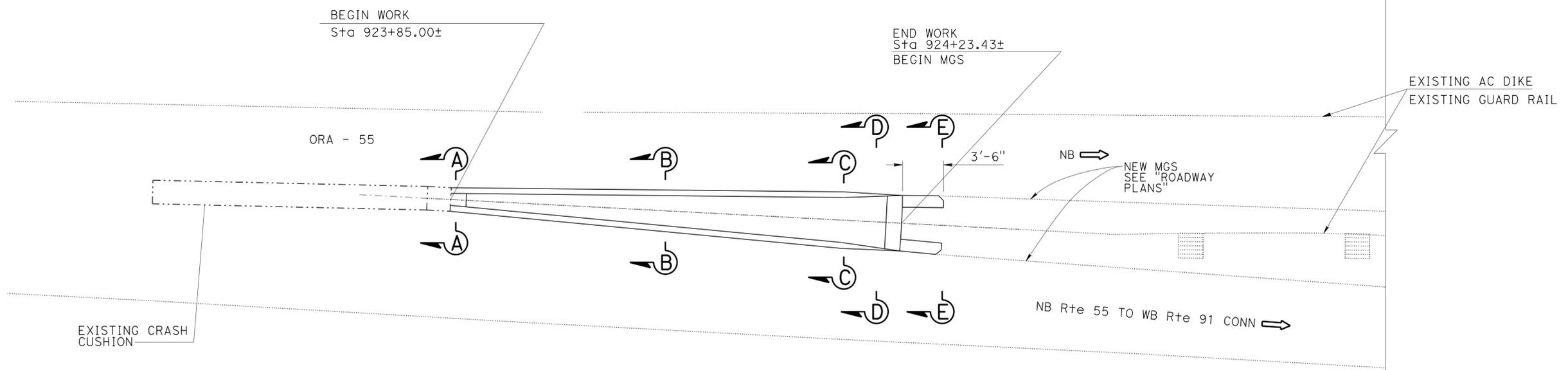
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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			06/21/16		
REGISTERED CIVIL ENGINEER			DATE		
06-24-16			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					



MIRRORED ELEVATION
1" = 5'

NOTE:
For SECTIONS A-A, B-B, C-C, D-D, and E-E see "MGS END BLOCK CONNECTION DETAILS NO. 1" sheet

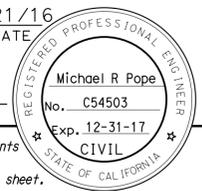


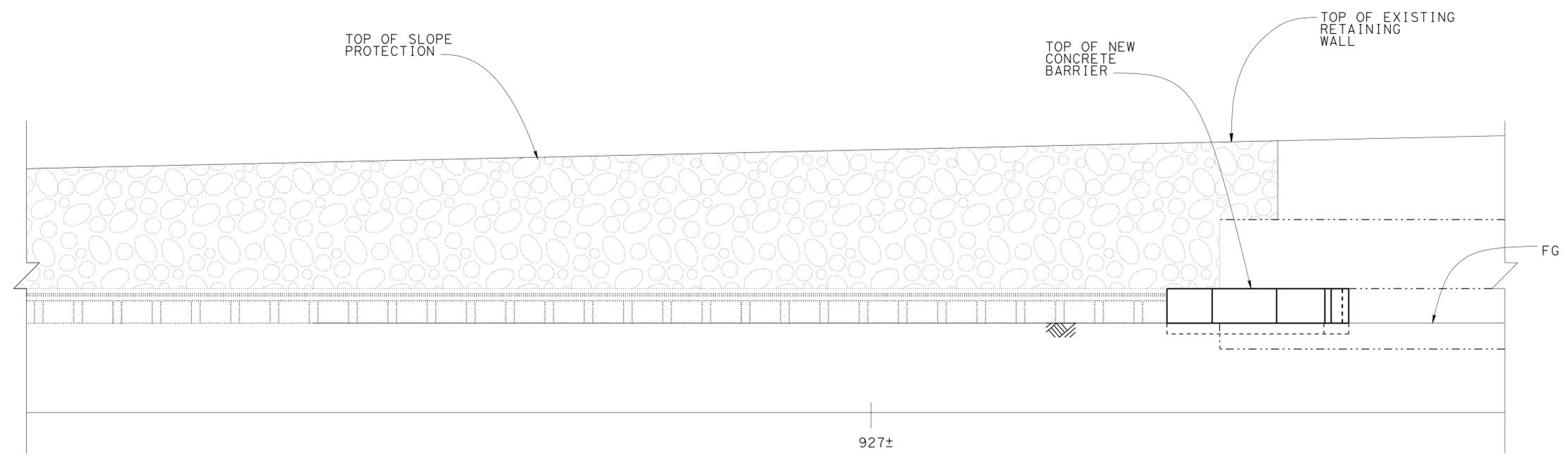
PLAN
1" = 5'

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

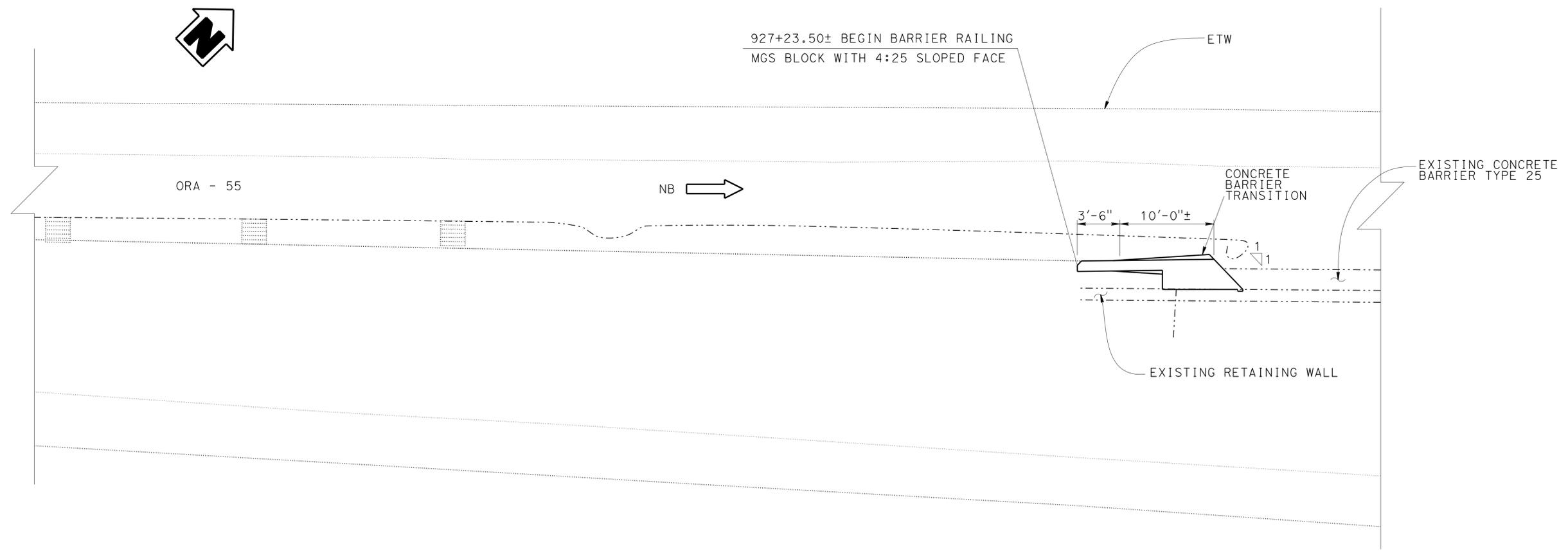
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	DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN			X		
	QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE			POST MILE		17.49-17.58
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT: 3603 PROJECT NUMBER & PHASE: 1212000092	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-15-15 9-14-15 06-13-16	SHEET OF 2 5

USERNAME => s111173 DATE PLOTTED => 31-AUG-2016 TIME PLOTTED => 08:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	316	335
 REGISTERED CIVIL ENGINEER			06/21/16	DATE	
PLANS APPROVAL DATE 06-24-16					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



MIRRORED ELEVATION
1" = 5'

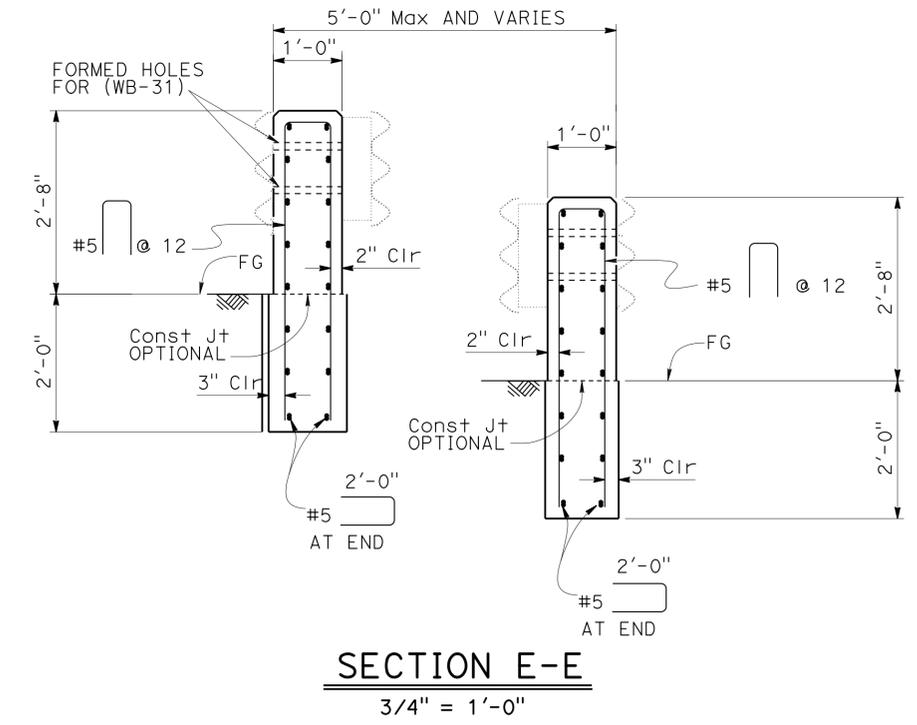
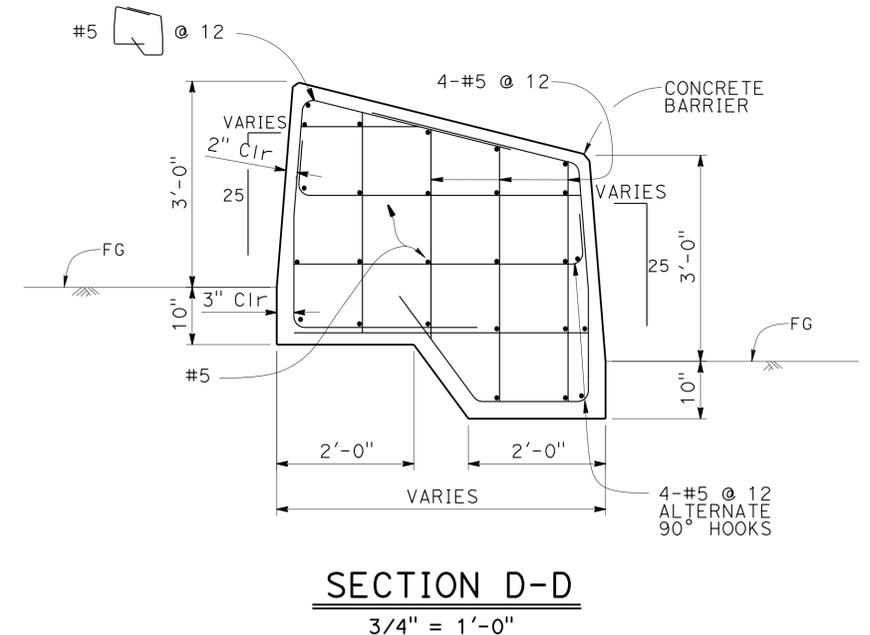
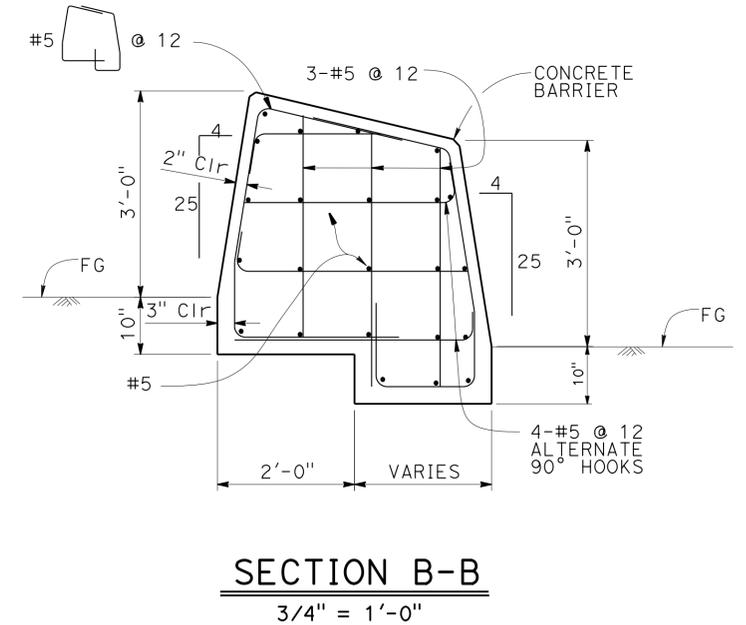
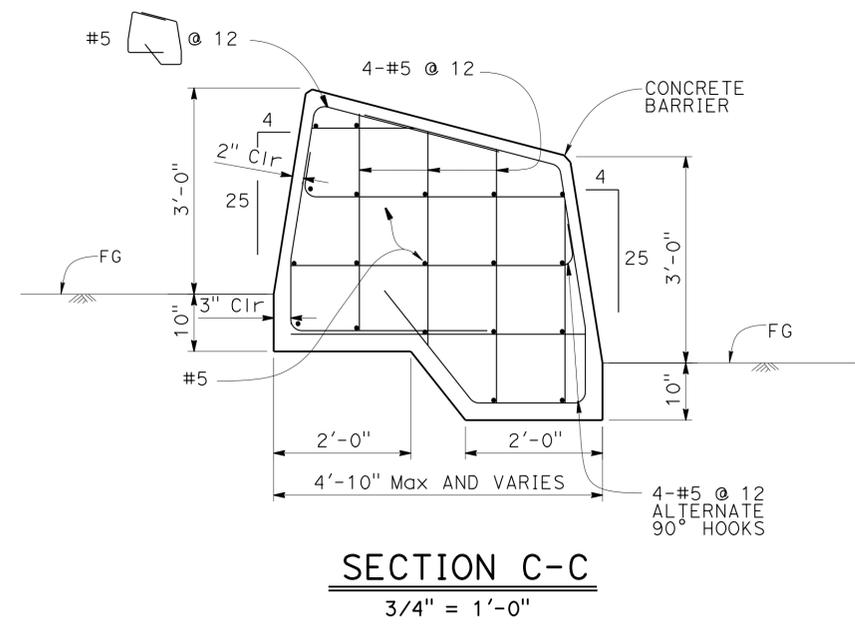
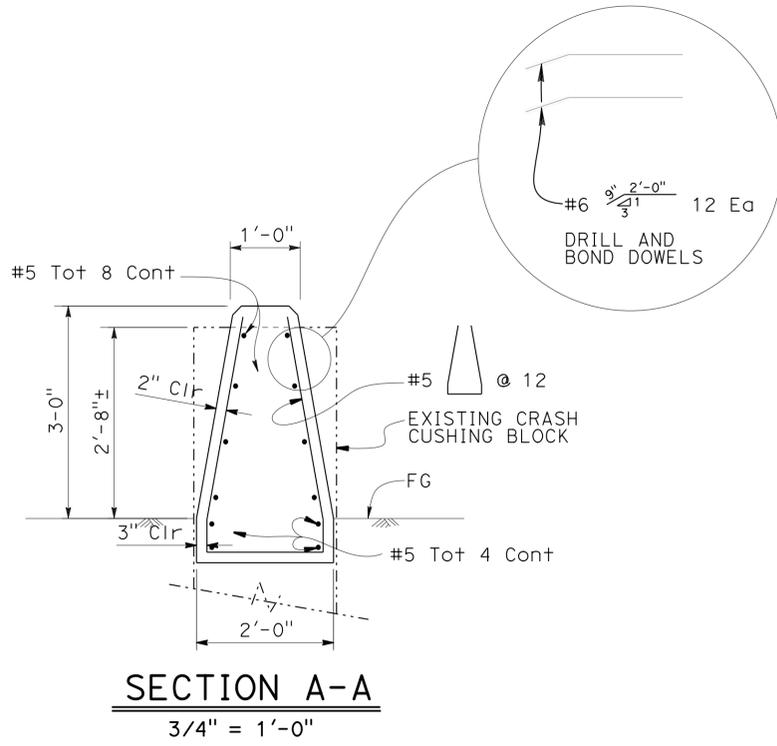


PLAN
1" = 5'

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

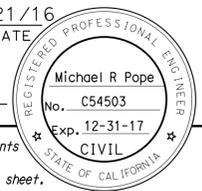
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	DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN			X	STRUCTURE PLAN NO.2		
	QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE			POST MILE	17.49-17.58		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	UNIT: 3603 PROJECT NUMBER & PHASE: 1212000092	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-15 9-15 06-13-16	SHEET OF 3 5

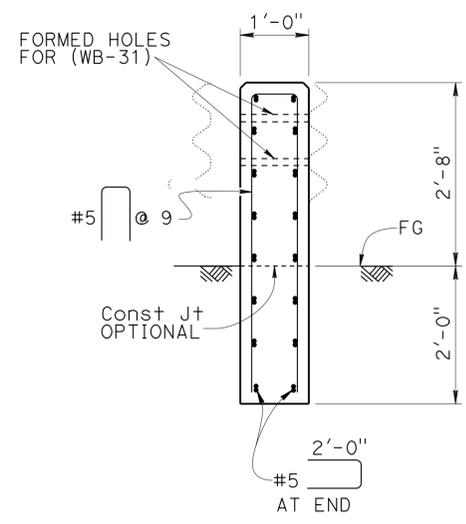
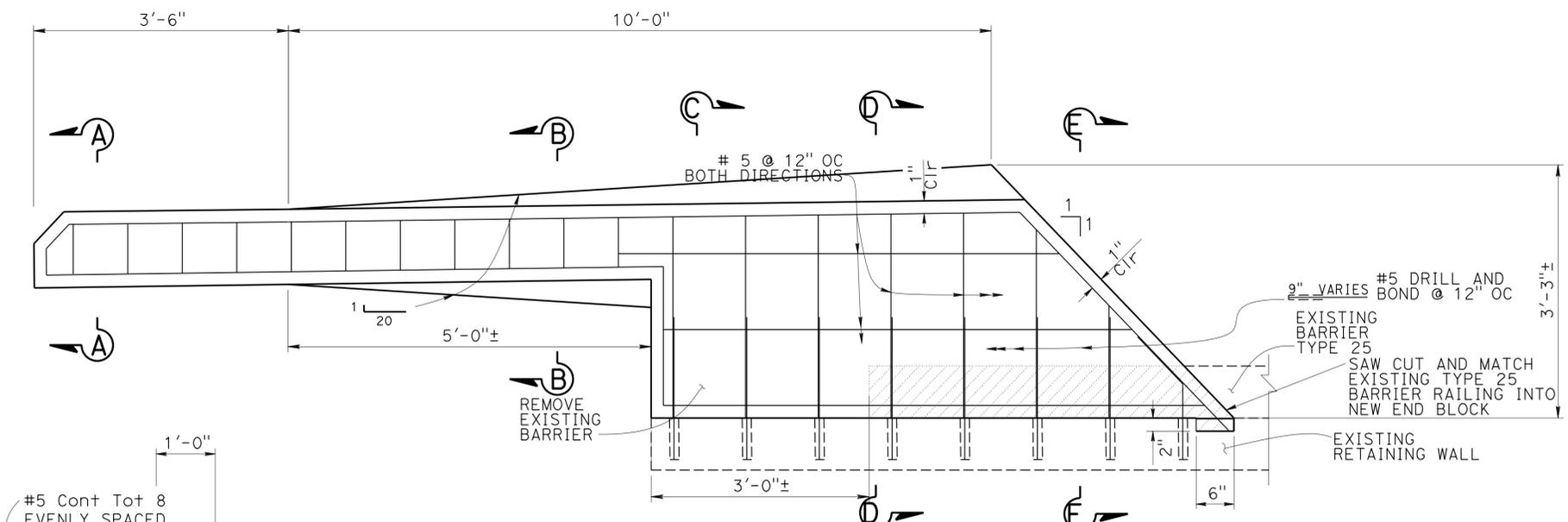
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12	ORA	55	1.2/R17.9	317	335
			06/21/16	DATE	
			06-24-16	PLANS APPROVAL DATE	
			REGISTERED CIVIL ENGINEER Michael R Pope No. C54503 Exp. 12-31-17 CIVIL STATE OF CALIFORNIA		
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NOTE:
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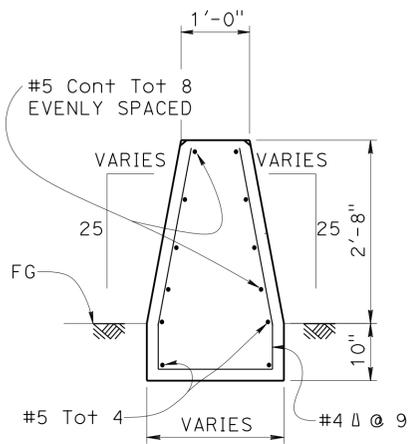
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DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN			X	
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE			X	
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			UNIT: 3603	PROJECT NUMBER & PHASE: 1212000092	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			0	1	2	3
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			11-28-16		06-13-16	4
						5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	318	335
 REGISTERED CIVIL ENGINEER			06/21/16	DATE	
PLANS APPROVAL DATE 06-24-16					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

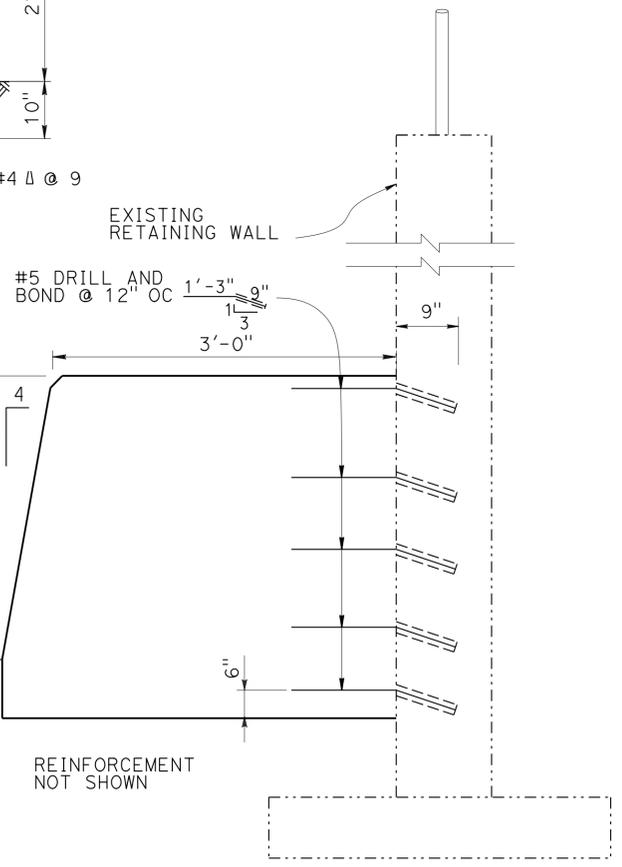


SECTION A-A
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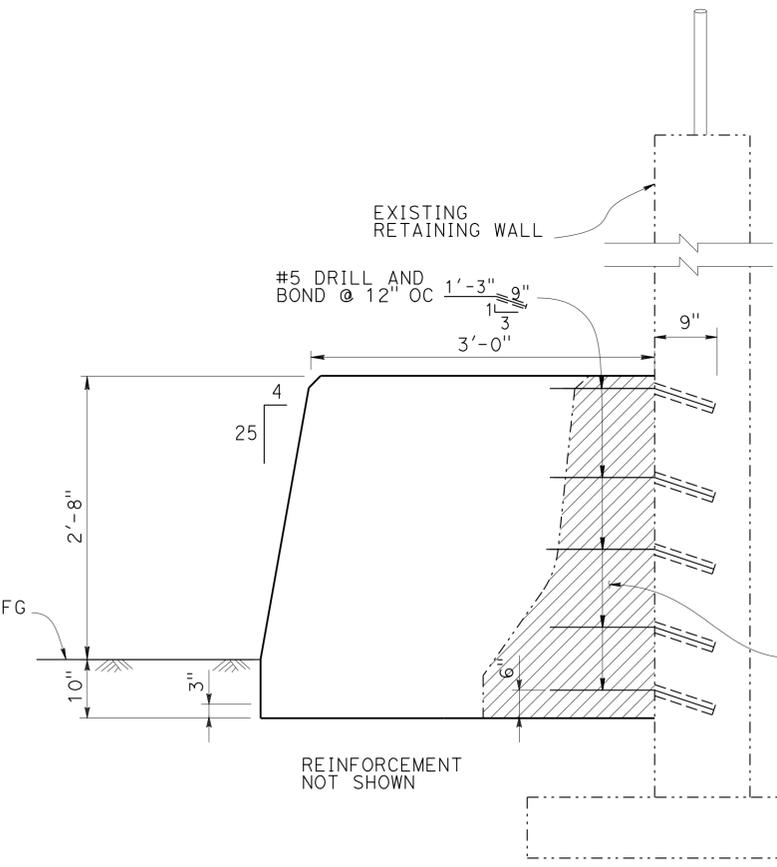
- LEGENDS:
- Indicates New Structure
 - - - - - Indicates Existing Structure
 -  Retaining Wall Removal (Portion)



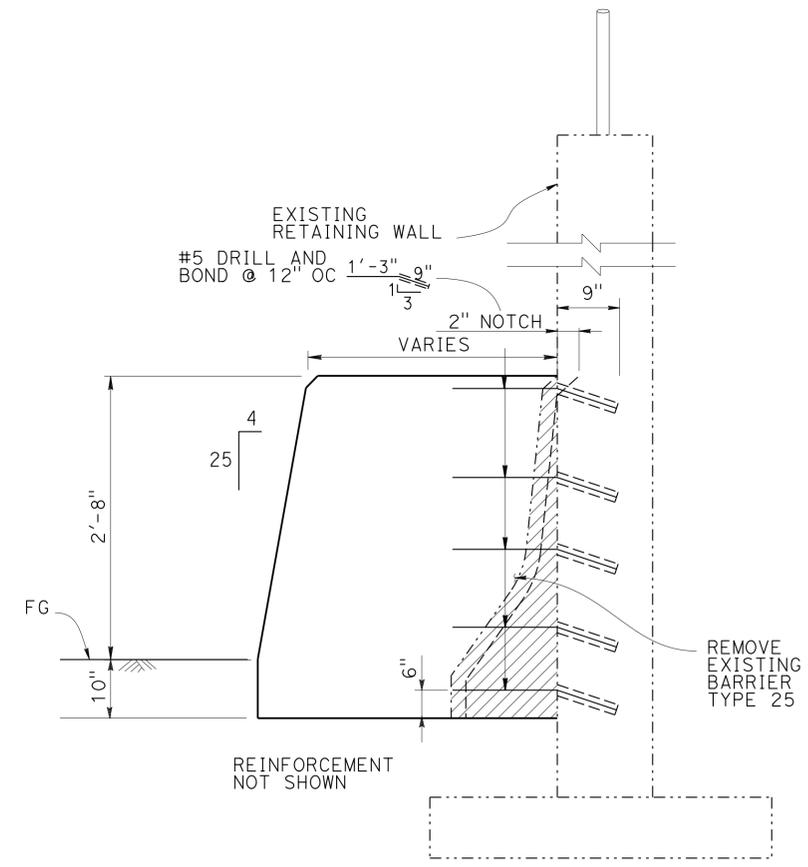
SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



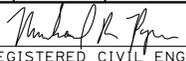
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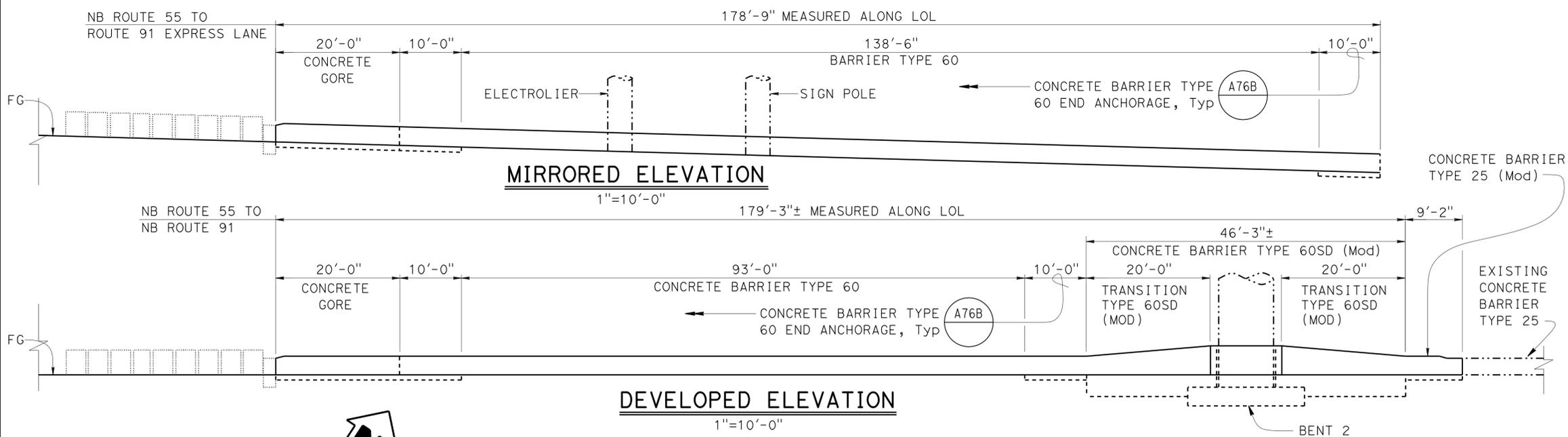


SECTION E-E
NO SCALE

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

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN	DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	LOCATION 135 MGS END BLOCK CONNECTION DETAILS NO.2
	DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN			POST MILE	17.49-17.58	
	QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE			UNIT: 3603	PROJECT NUMBER & PHASE: 1212000092	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3	REVISION DATES 9-15 3-16 6-13-16		SHEET OF 5 5		DISREGARD PRINTS BEARING EARLIER REVISION DATES			

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	319	335
 REGISTERED CIVIL ENGINEER			06/21/16 DATE		
06-24-16 PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					

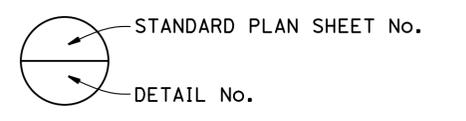


INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	DETAILS
3	CONCRETE BARRIER 60SD (Mod)
4	TRANSITION AT BRIDGE COLUMN-DETAILS NO.1
5	CONCRETE BARRIER 60SD (Mod)
6	TRANSITION AT BRIDGE COLUMN-DETAILS NO.2
7	CONCRETE BARRIER TYPE 25 (Mod)

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
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 A76A	CONCRETE BARRIER TYPE 60
A76B	CONCRETE BARRIER TYPE 60



NOTES:
 For "SECTION A-A, B-B, C-C, D-D, and E-E" see "DETAILS" sheet.

GENERAL NOTES

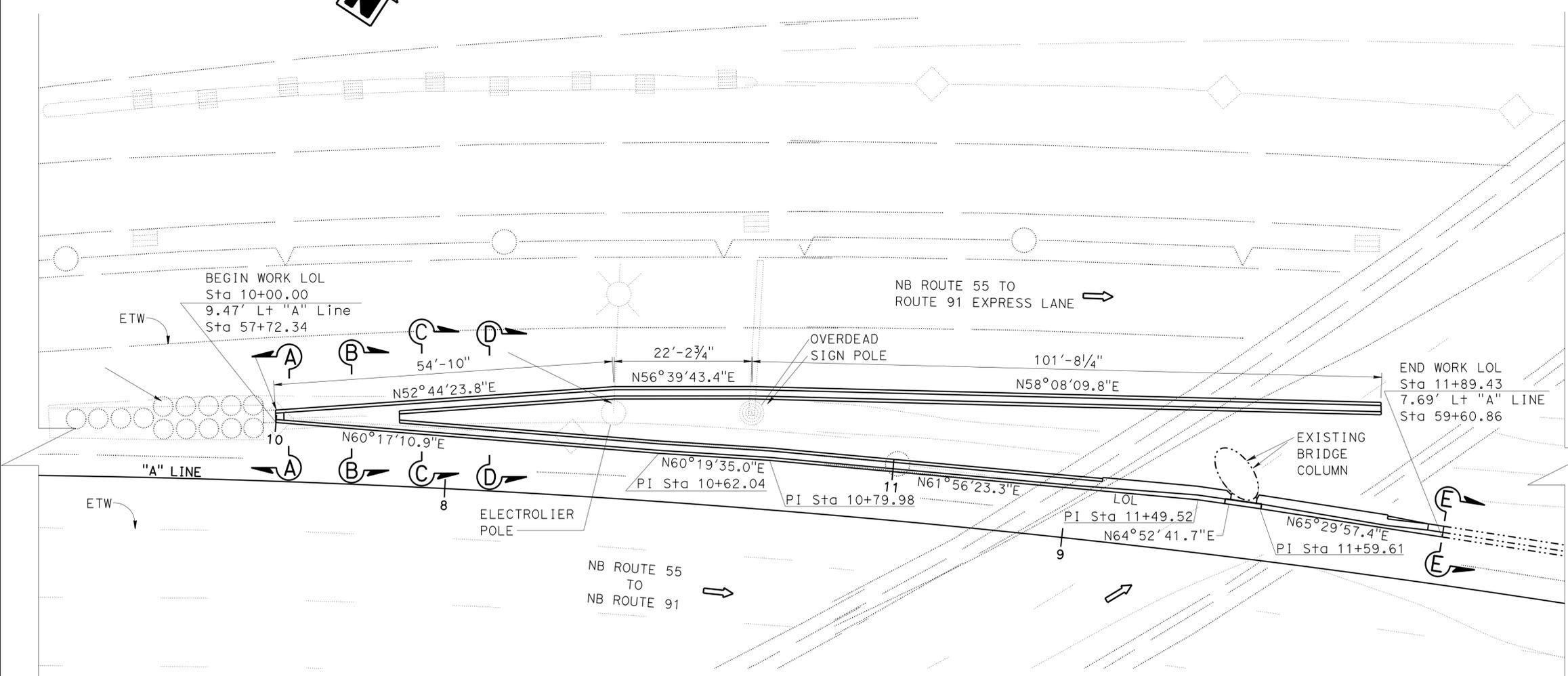
LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH THE CALTRANS AMENDMENTS, PREFACE DATED NOVEMBER 2014.

STRUCTURAL CONCRETE (new construction):
 $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

QUANTITIES

CONCRETE BARRIER (GORE BLOCK)	20	LF
CONCRETE BARRIER (TYPE 60)	358	LF
CONCRETE BARRIER (TYPE 60SD MODIFIED)	49	LF
CONCRETE BARRIER TRANSITION	9	LF



PLAN
 1"=10'-0"

Michael Pope
 DESIGN ENGINEER

DESIGN	BY JEFF DUFFIN	CHECKED SAMAD MAMOUD	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE
DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN	LAYOUT	BY JAIME RAMIREZ
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE	SPECIFICATIONS	BY KAREN DOLL

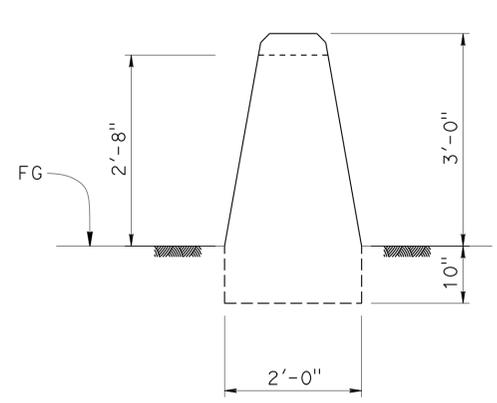
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

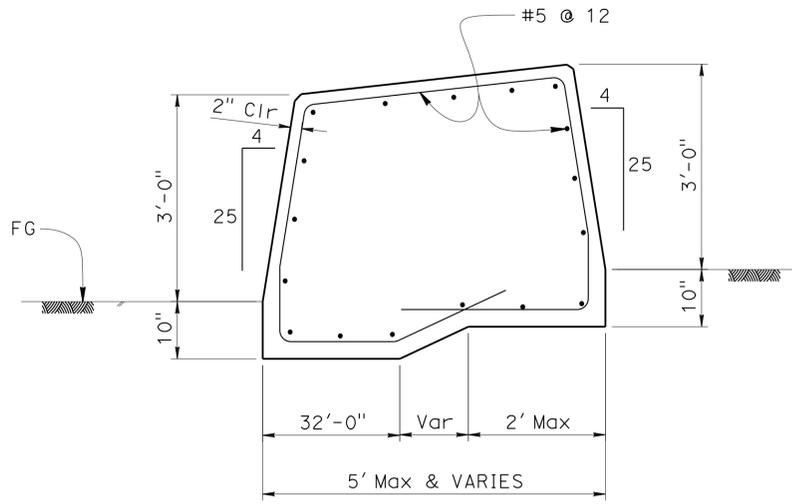
BRIDGE NO.	N/A
POST MILE	17.67

LOCATION 138
GENERAL PLAN

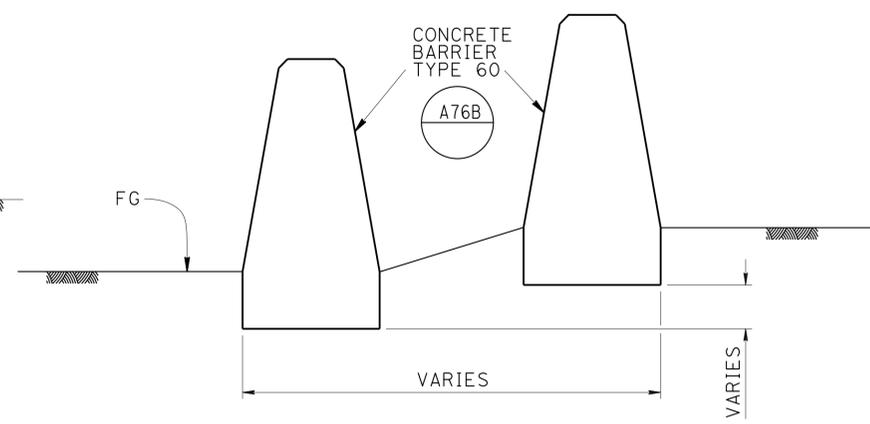
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	320	335
REGISTERED CIVIL ENGINEER Michael R. Pope No. C54503 Exp. 12-31-17 CIVIL STATE OF CALIFORNIA			06/21/16	DATE	
PLANS APPROVAL DATE			06-24-16		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.					



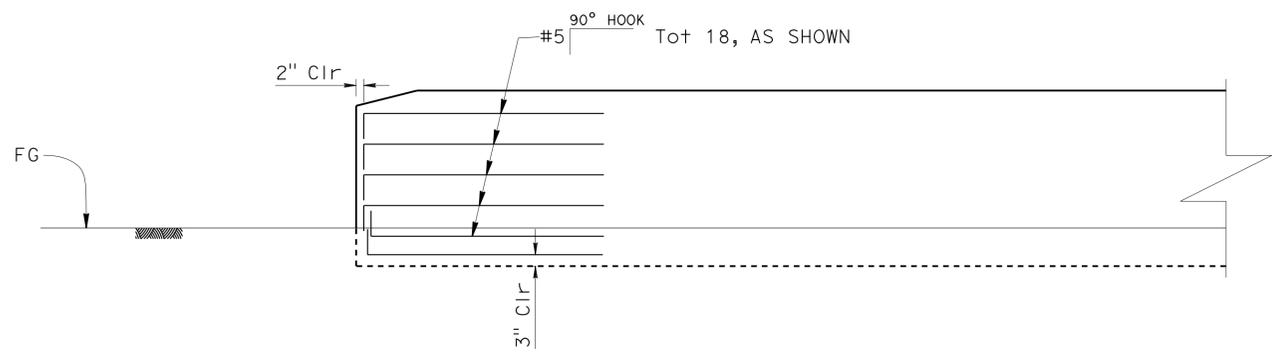
SECTION A-A
NO SCALE
NOTE: REINFORCEMENT NOT SHOWN



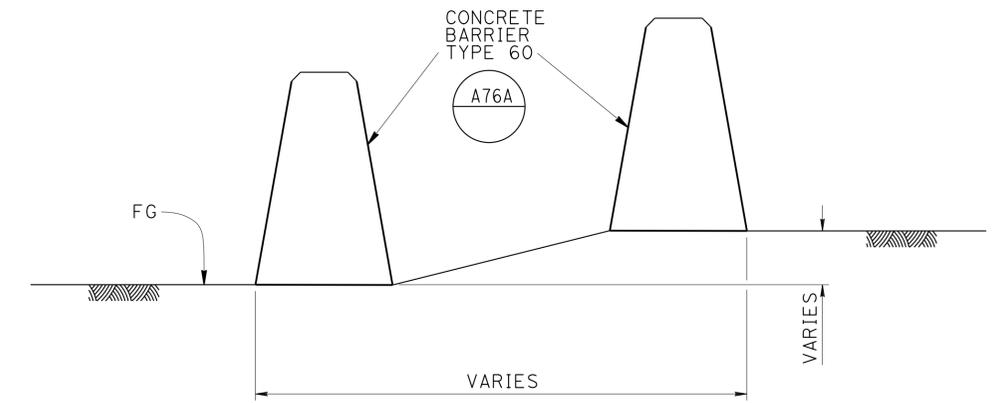
SECTION B-B
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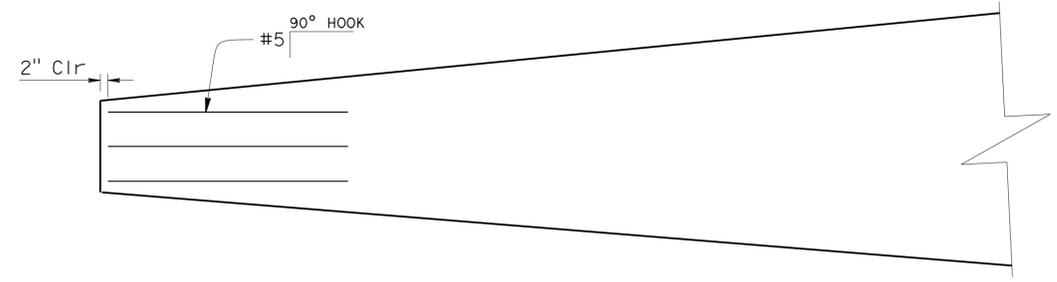
SECTION C-C
NO SCALE



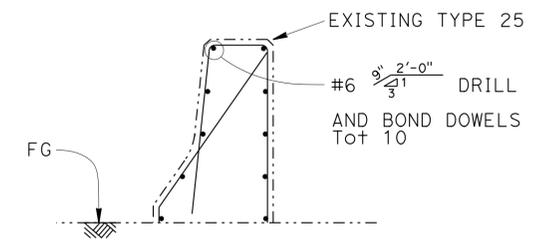
PARTIAL ELEVATION CONCRETE GORE
1" = 1'-0"



SECTION D-D
NO SCALE



PARTIAL PLAN CONCRETE GORE
1" = 1'-0"



SECTION E-E
NO SCALE

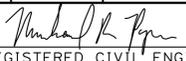
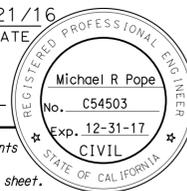
DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY JAIME RAMIREZ	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

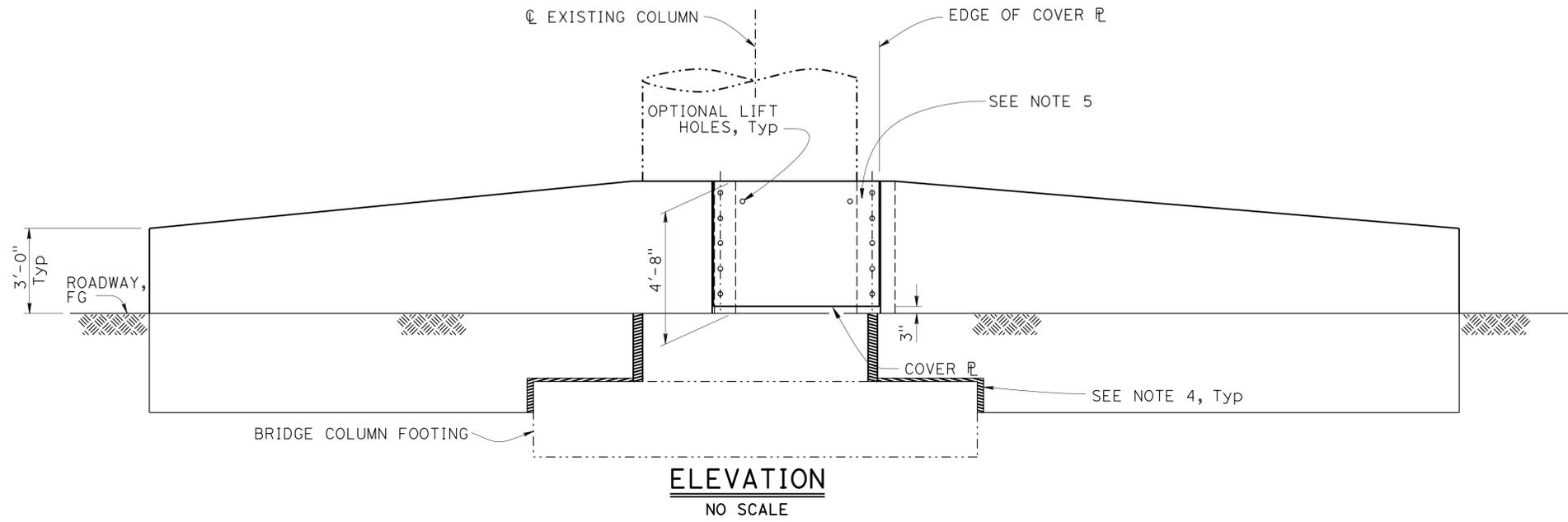
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

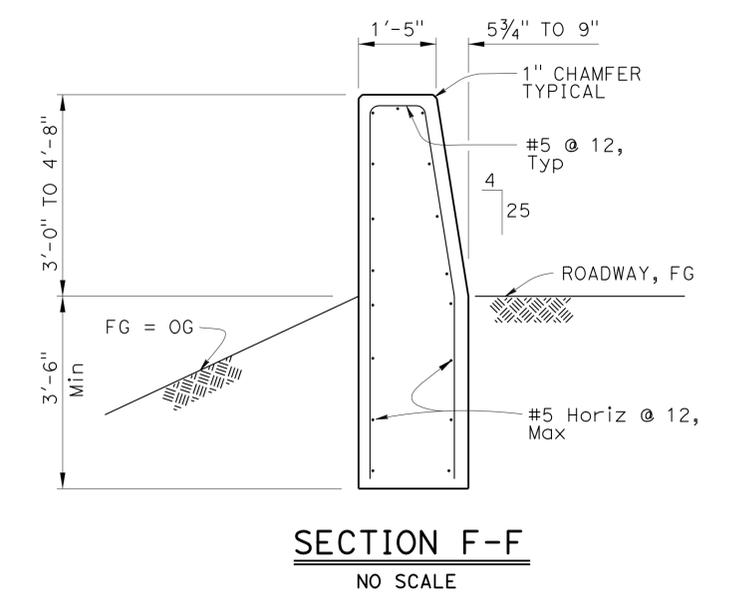
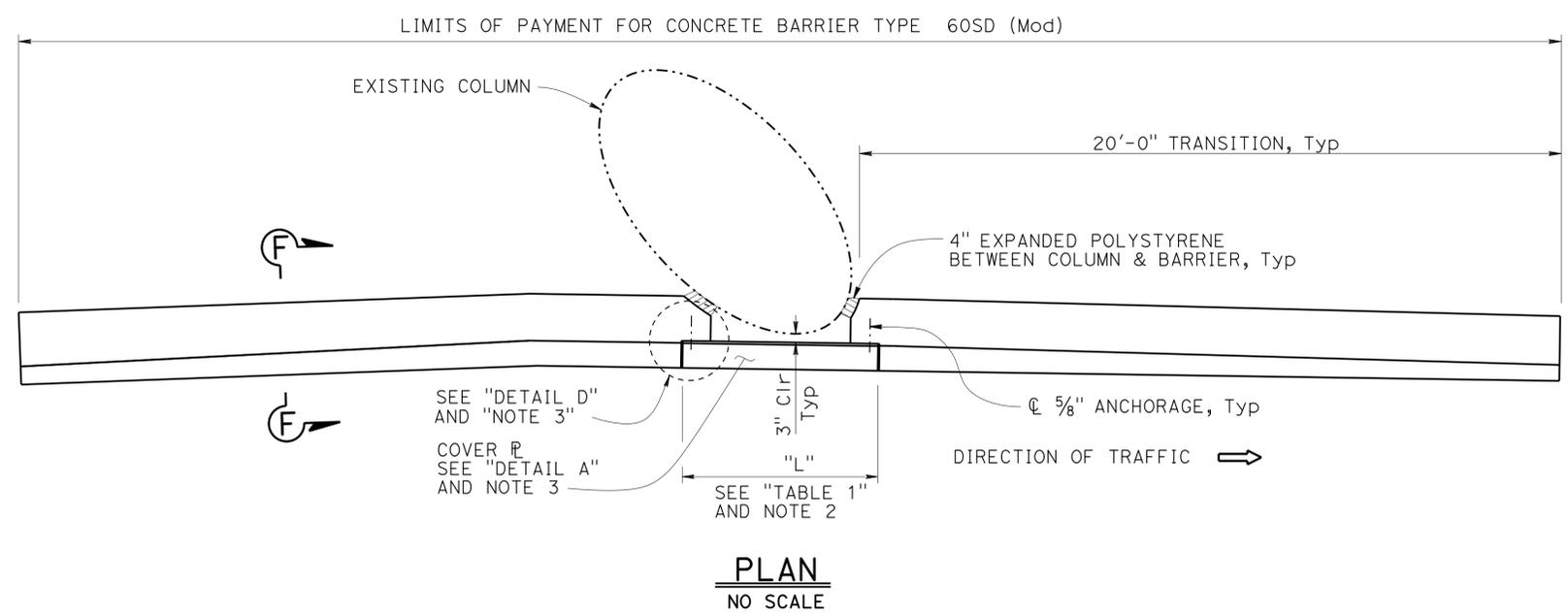
BRIDGE NO.	X
POST MILE	17.67

LOCATION 138
DETAILS

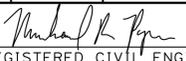
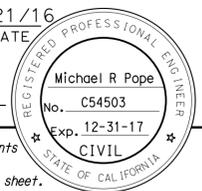
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	321	335
 REGISTERED CIVIL ENGINEER			06/21/16	DATE	
PLANS APPROVAL DATE 06-24-16					
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					

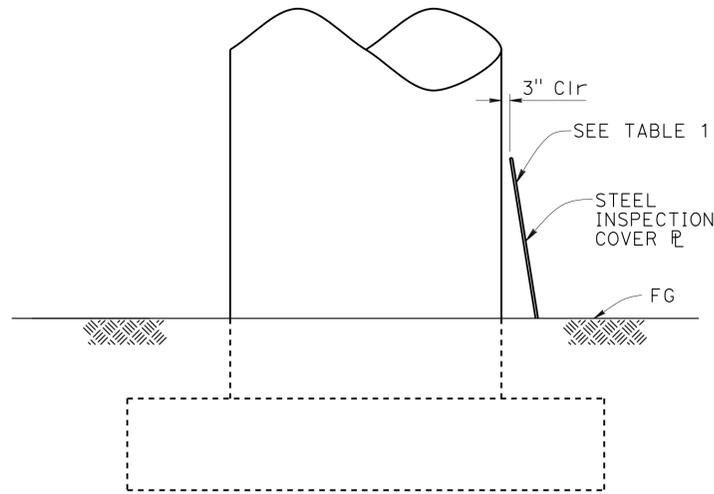


- NOTES:**
1. See "ROAD PLANS" for exact alignment of Barrier.
 2. For "DETAIL A", "DETAIL D", "TABLE 1", and "ALTERNATIVE ANCHORAGE", see "CONCRETE BARRIER TYPE 60SD (Mod) TRANSITION AT BRIDGE COLUMN-DETAILS No. 2" sheet.
 3. Maintain 4" (Min) Styrene to existing Structure.
 4. Where existing bridge footing is encountered, apply 1" Styrene bond breaker between bridge top of footing and new structure; apply 2" Styrene bond breaker between bridge to side of footing and new structure.
 5. All plates & connections must be galvanized.

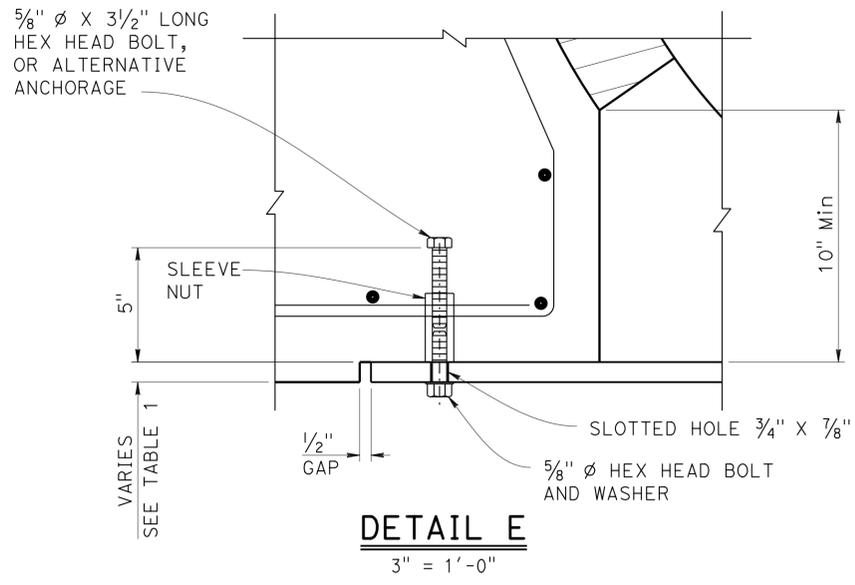


LOCATION 138				CONCRETE BARRIER TYPE 60SD (Mod)													
TRANSITION AT BRIDGE COLUMN-DETAILS NO.1																	
DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD	BRIDGE NO.	X													
DETAILS	BY JAIME RAMIREZ	CHECKED JERRY HAN	POST MILE	17.67													
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE															
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18														
<small>STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN</small>			<small>UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921 CONTRACT NO.: 12-0M5004</small>														
<small>ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</small>			<small>DISREGARD PRINTS BEARING EARLIER REVISION DATES</small>														
<small>FILE => .loc138-c-det1_detail-sheet.dgn</small>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">REVISION DATES</td> <td style="text-align: center;">SHEET</td> <td style="text-align: center;">OF</td> </tr> <tr> <td style="text-align: center;">2-18-16</td> <td style="text-align: center;">6-15-16</td> <td style="text-align: center;">6-20-16</td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">5</td> </tr> </table>			REVISION DATES		SHEET	OF	2-18-16	6-15-16	6-20-16	3				5
REVISION DATES		SHEET	OF														
2-18-16	6-15-16	6-20-16	3														
			5														

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	322	335
 REGISTERED CIVIL ENGINEER			06/21/16	DATE	
PLANS APPROVAL DATE 06-24-16					
					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.</small>					



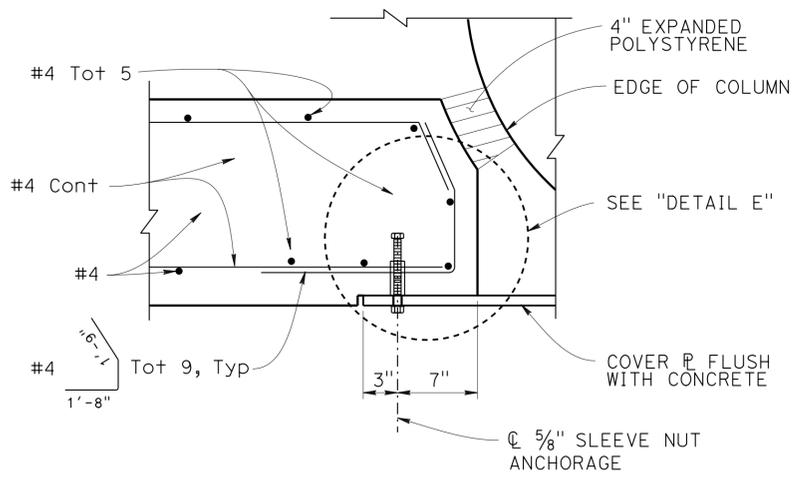
DETAIL A
NO SCALE



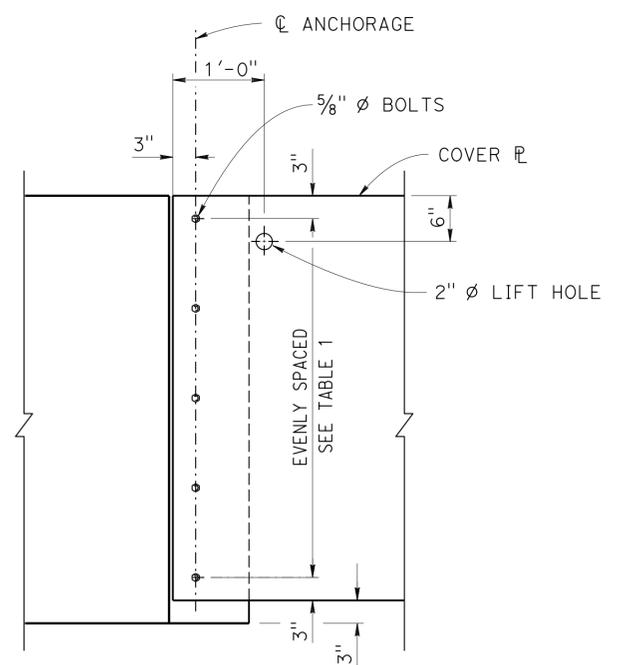
DETAIL E
3" = 1'-0"

L (ft+) (NOTE 1)	PLATE THICKNESS (in)	TOTAL No. OF BOLTS
8'-6" Max	7/8	10

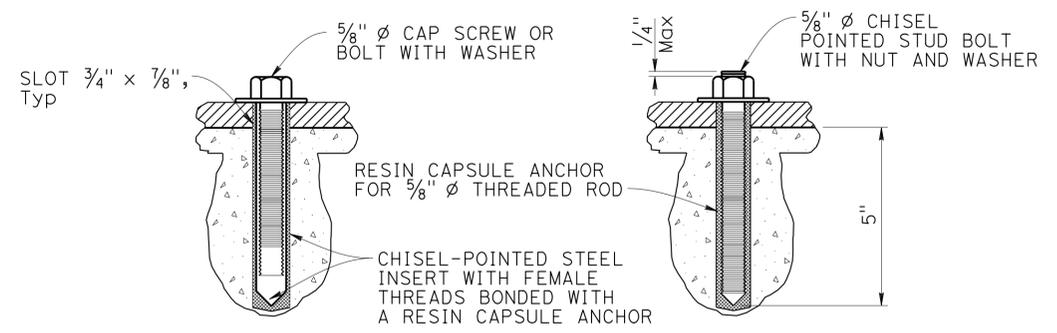
- NOTES:
- Structural steel, f = 50,000 psi Unless otherwise noted.
 - For "DETAIL A" and "DETAIL D", see "CONCRETE BARRIER TYPE 60SD (Mod)-TRANSITION AT BRIDGE COLUMN-DETAILS NO. 1" sheet



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



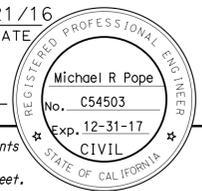
DETAIL F
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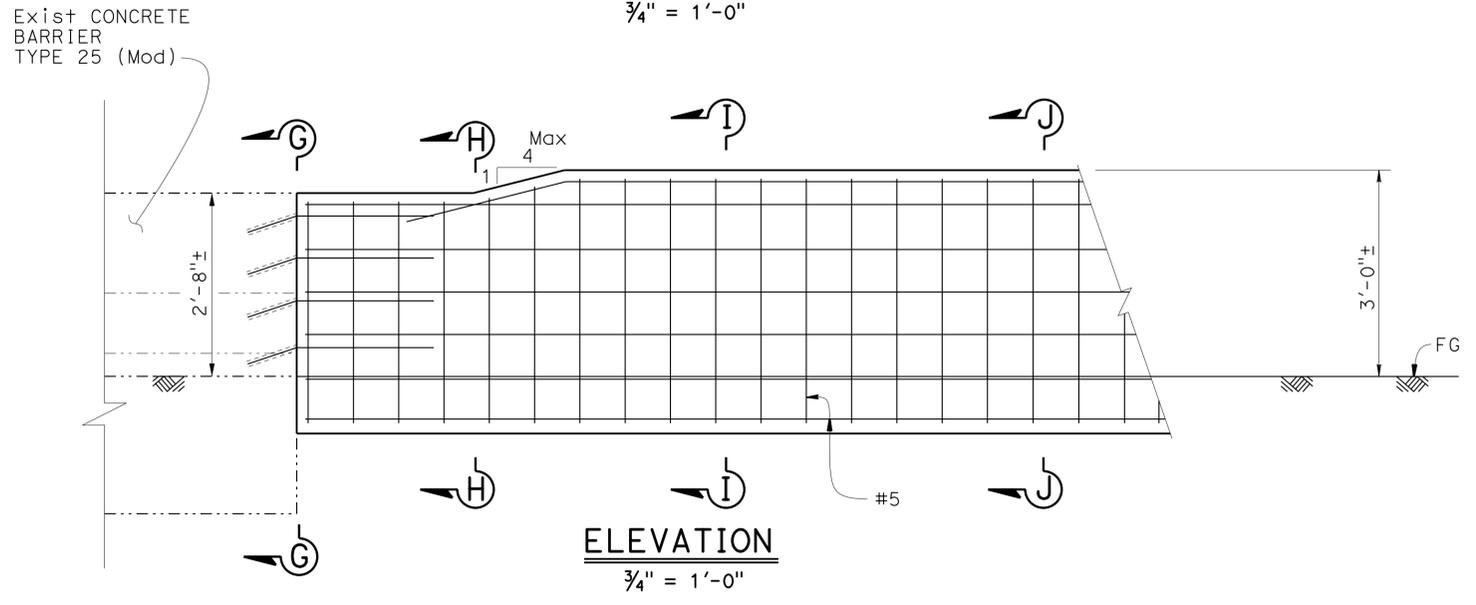
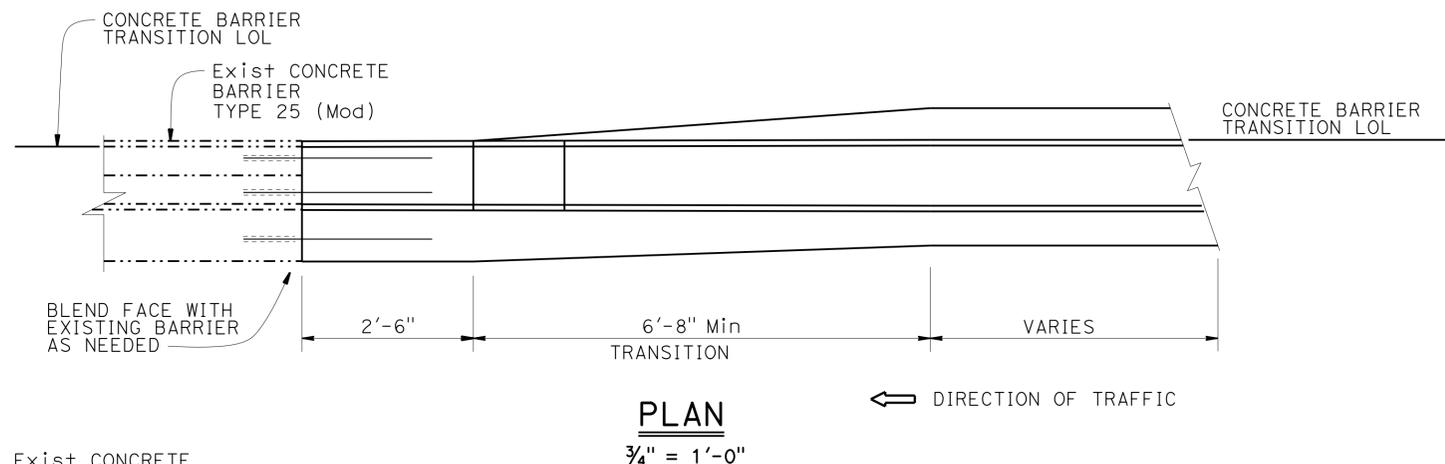
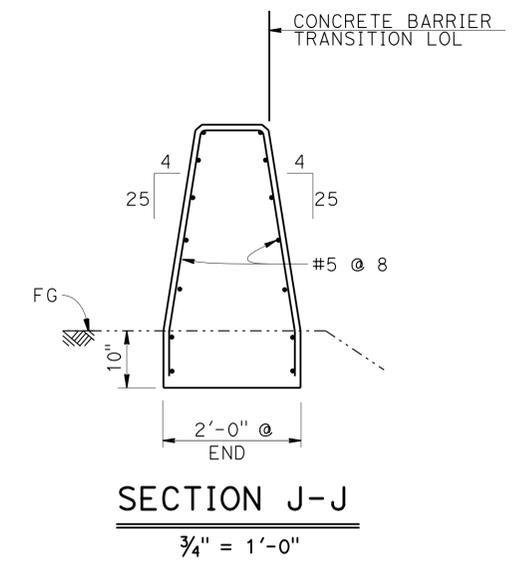
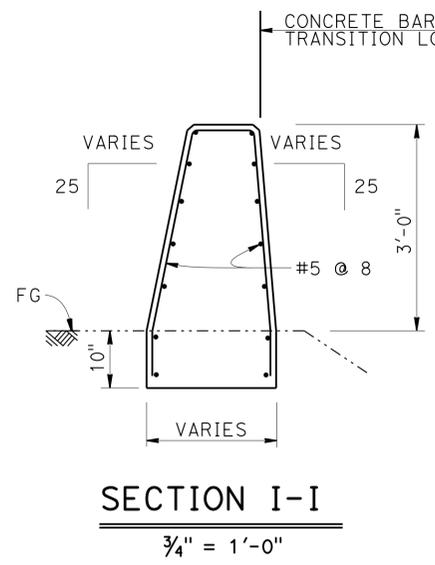
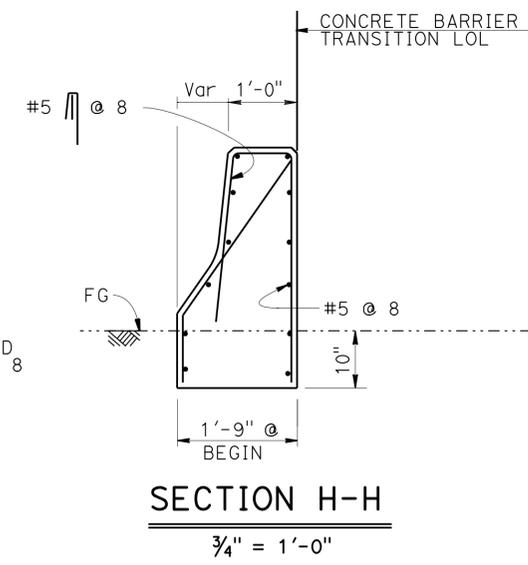
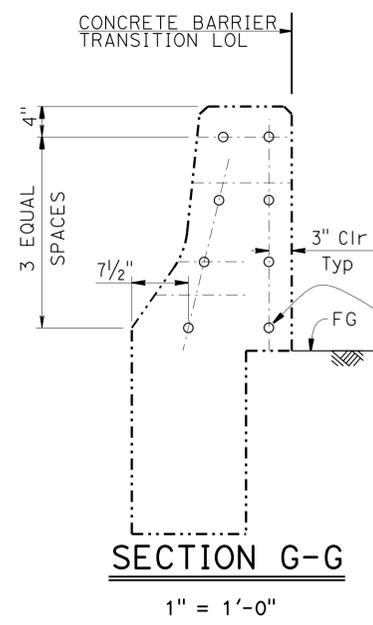


ALTERNATIVE ANCHORAGE
NO SCALE

DESIGN	BY	JEFF DUFFIN	CHECKED	SAMAD HAMOUD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	
	DETAILS	BY	JAIME RAMIREZ	CHECKED			JERRY HAN	POST MILE	14.13
	QUANTITIES	BY	JEFF DUFFIN	CHECKED			J. HAN/M. POPE		

LOCATION 138	
CONCRETE BARRIER TYPE 60SD (Mod)	
TRANSITION AT BRIDGE COLUMN-DETAILS NO.2	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	323	335
 REGISTERED CIVIL ENGINEER DATE 06/21/16					
PLANS APPROVAL DATE 06-24-16					
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NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES:

1. See "LOCATION TABLE" sheets and "ROAD PLANS" for work locations.
2. Existing barrier heights vary. Where existing barrier height is more than 2'-8", transition barrier height to 2'-8" @ 4:1 slope.
3. Minimum 2" cover

LEGEND:

- - - - - Indicates existing structure
- Indicates new construction

LOCATION 138 ROUTE 55 BRIDGE END BLOCK TYPE 60 BARRIER RAIL TRANS.				CONCRETE BARRIER TYPE 25 (MOD)	
DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD	STATE OF CALIFORNIA	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. VARIOUS
DETAILS	BY JAIME RAMIREZ	CHECKED JERRY HAN	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN	POST MILE VARIOUS
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE	DESIGN BRANCH 18		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3603 PROJECT NUMBER & PHASE: 1212000092	CONTRACT NO.: 12-0M5004
				DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 11/16/14, 3-16, 6-15-16
				SHEET 5 OF 5	

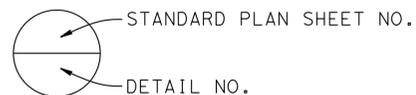
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INDEX TO PLANS

Sheet No.	Title
1	GENERAL PLAN
2	STRUCTURE PLAN No. 1
3	STRUCTURE PLAN No. 2
4	STRUCTURE PLAN No. 3
5	STRUCTURE PLAN No. 4
6	STRUCTURE PLAN No. 5
7	CONCRETE BARRIER TYPE 60SD (Mod) NO. 1
8	CONCRETE BARRIER TYPE 60SD (Mod) NO. 2
9	STRUCTURAL DETAILS & DRAINAGE
10	STRUCTURAL DETAILS
11	DRAINAGE DETAILS NO 1
12	DRAINAGE DETAILS NO 2

STANDARD PLANS DATED 2010

RSP A10A	ABBREVIATIONS(1 OF 2)
RSP A10B	ABBREVIATIONS(1 OF 2)
A10C	LINES AND SYMBOLS (1 OF 3)
A10D	LINES AND SYMBOLS (2 OF 3)
A10E	LINES AND SYMBOLS (3 OF 3)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL
RSP A76A	CONCRETE BARRIER TYPE 60
A76B	CONCRETE BARRIER TYPE 60
BO-3	BRIDGE DETAILS



GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS,
4TH EDITION WITH THE CALTRANS AMENDMENTS,
PREFACE DATED NOVEMBER 2014.

STRUCTURAL CONCRETE (new construction):

$f_y = 60 \text{ ksi}$
 $f'_c = 3.6 \text{ ksi}$
 $n = 8$

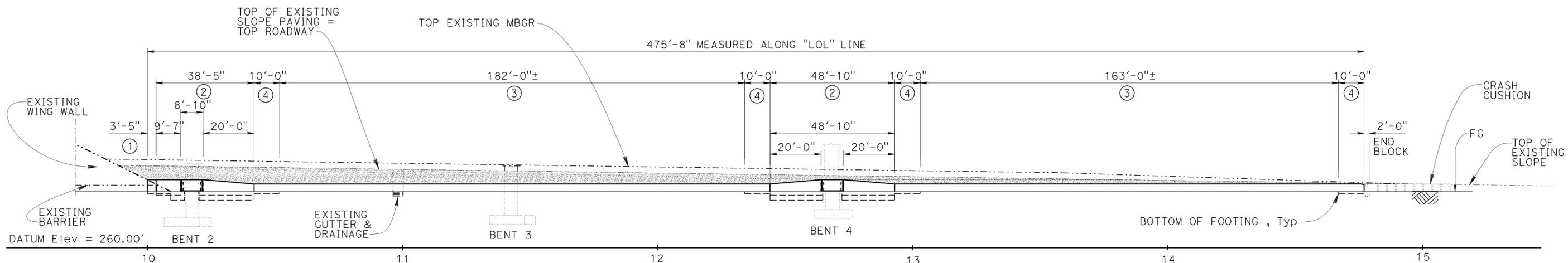
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	324	335

Michael R Pope 06/21/16
REGISTERED CIVIL ENGINEER DATE

06-24-16
PLANS APPROVAL DATE

Michael R Pope
No. C54503
Exp. 12-31-17
CIVIL
STATE OF CALIFORNIA

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MIRRORED ELEVATION

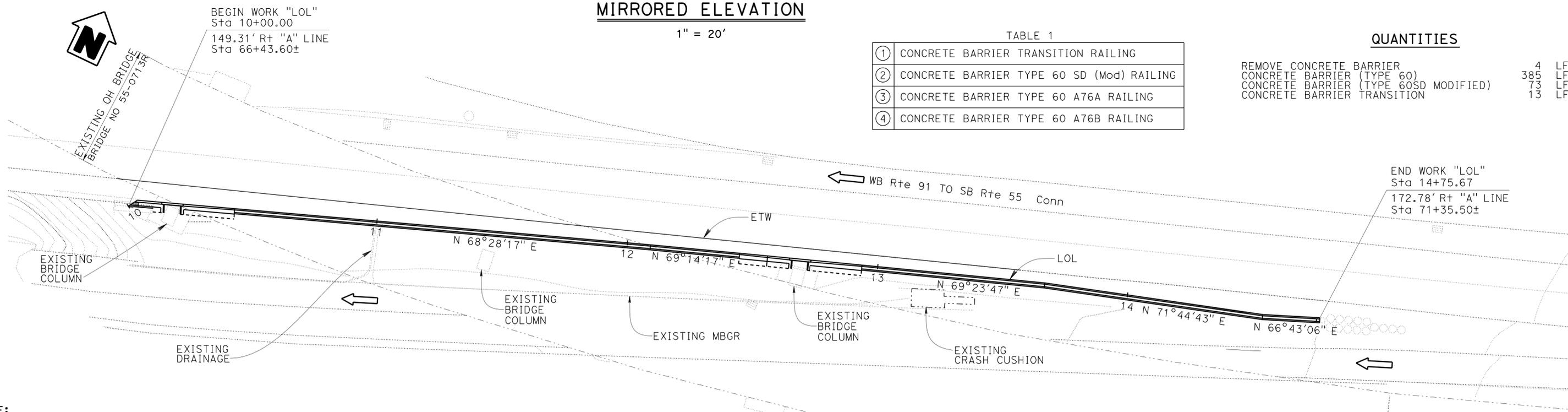
1" = 20'

TABLE 1

①	CONCRETE BARRIER TRANSITION RAILING
②	CONCRETE BARRIER TYPE 60 SD (Mod) RAILING
③	CONCRETE BARRIER TYPE 60 A76A RAILING
④	CONCRETE BARRIER TYPE 60 A76B RAILING

QUANTITIES

REMOVE CONCRETE BARRIER	4	LF
CONCRETE BARRIER (TYPE 60)	385	LF
CONCRETE BARRIER (TYPE 60SD MODIFIED)	73	LF
CONCRETE BARRIER TRANSITION	13	LF



PLAN

1" = 20'

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

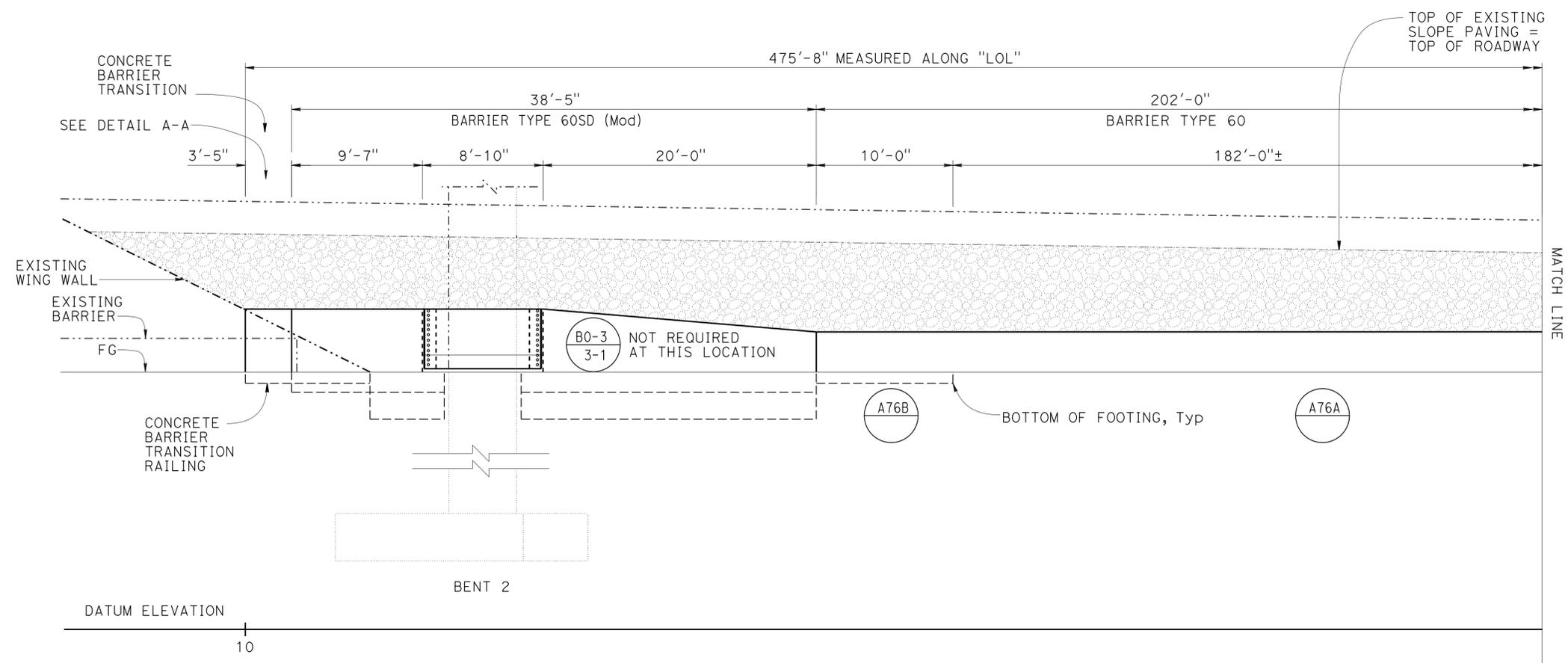
MIKE POPE DESIGN ENGINEER	DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	X	LOCATION 142 GENERAL PLAN		
	DETAILS	BY FARIDEH HOSSEINIOUN	CHECKED JERRY HAN	LAYOUT	BY JEFF DUFFIN		CHECKED SAMAD HAMOUD			POST MILE	
	QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE	SPECIFICATIONS	BY KAREN DOLL		PLANS AND SPECS COMPARED: MINGXIA PAN			17.84	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS						UNIT: 3603	PROJECT NUMBER & PHASE: 012120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 12

FILE => loc142-a-gp_gp-sheet.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	325	335

Michael R. Pope
 REGISTERED CIVIL ENGINEER DATE 06/21/16
 06-24-16
 PLANS APPROVAL DATE
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

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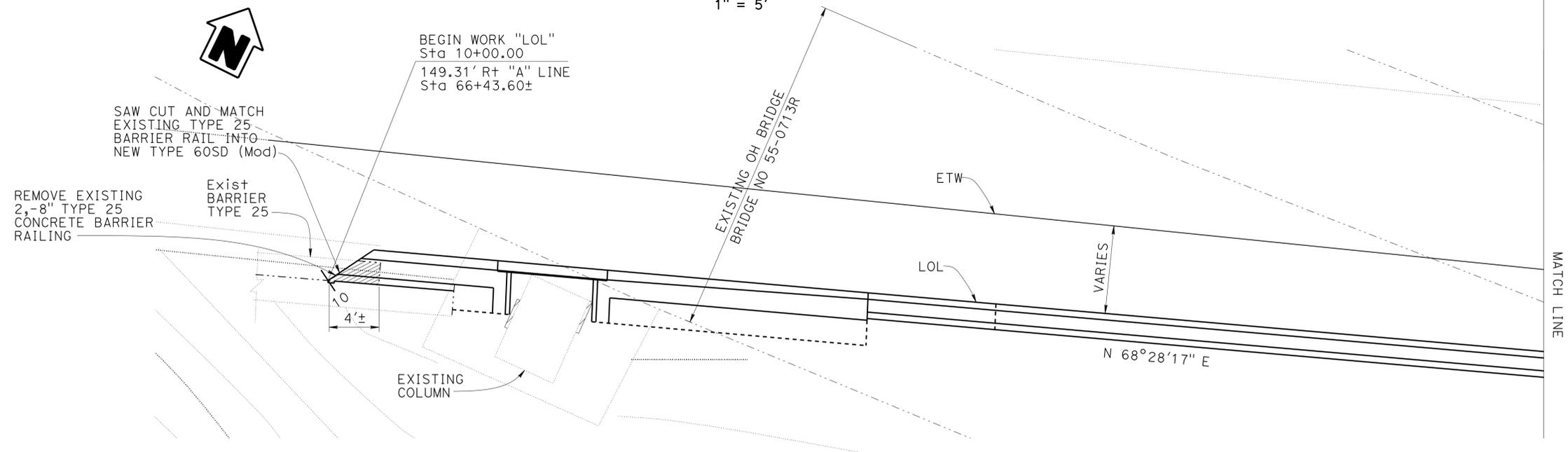


- LEGENDS:**
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - ▨ Retaining Wall Removal (Portion)

NOTES:
For 'Section A-A' see "STRUCTURAL DETAILS" sheet

MIRRORED ELEVATION

1" = 5'



PLAN

1" = 5'

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

DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY FARIDEN HOSSEINIQUON	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. Han/M. Pope

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

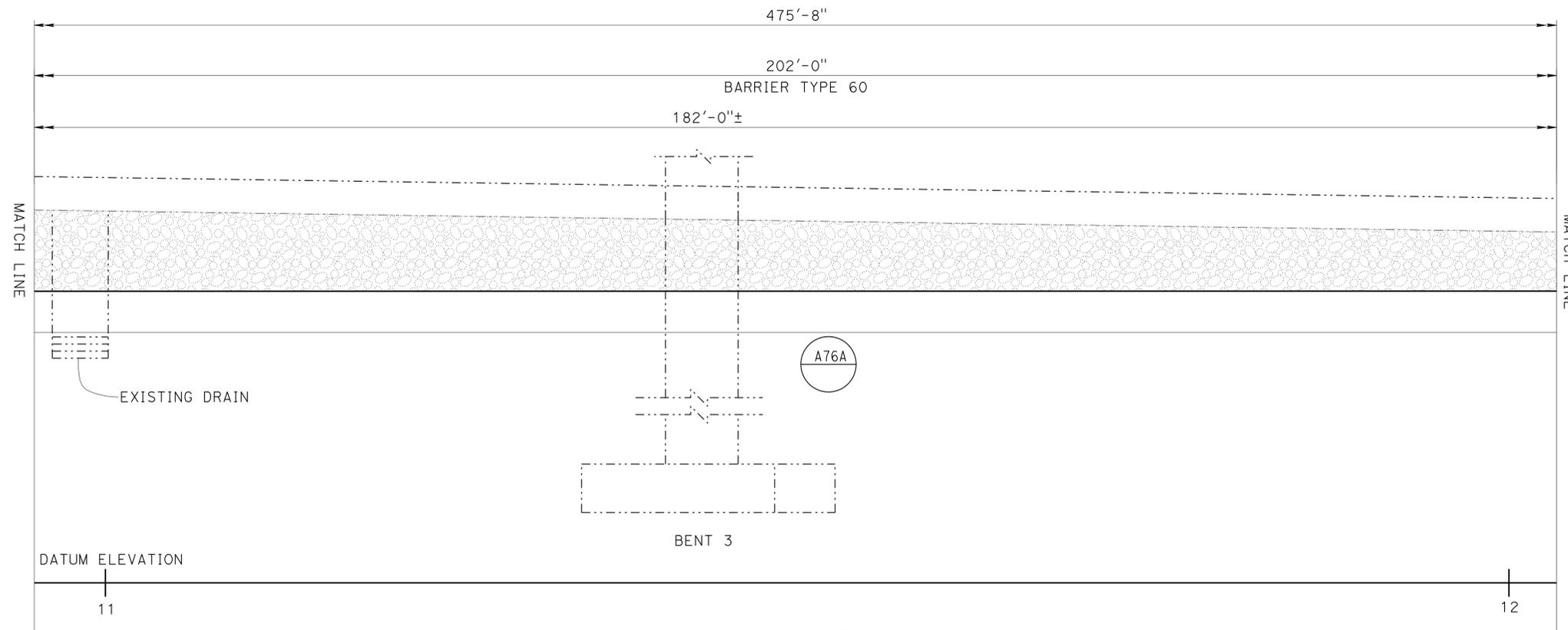
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

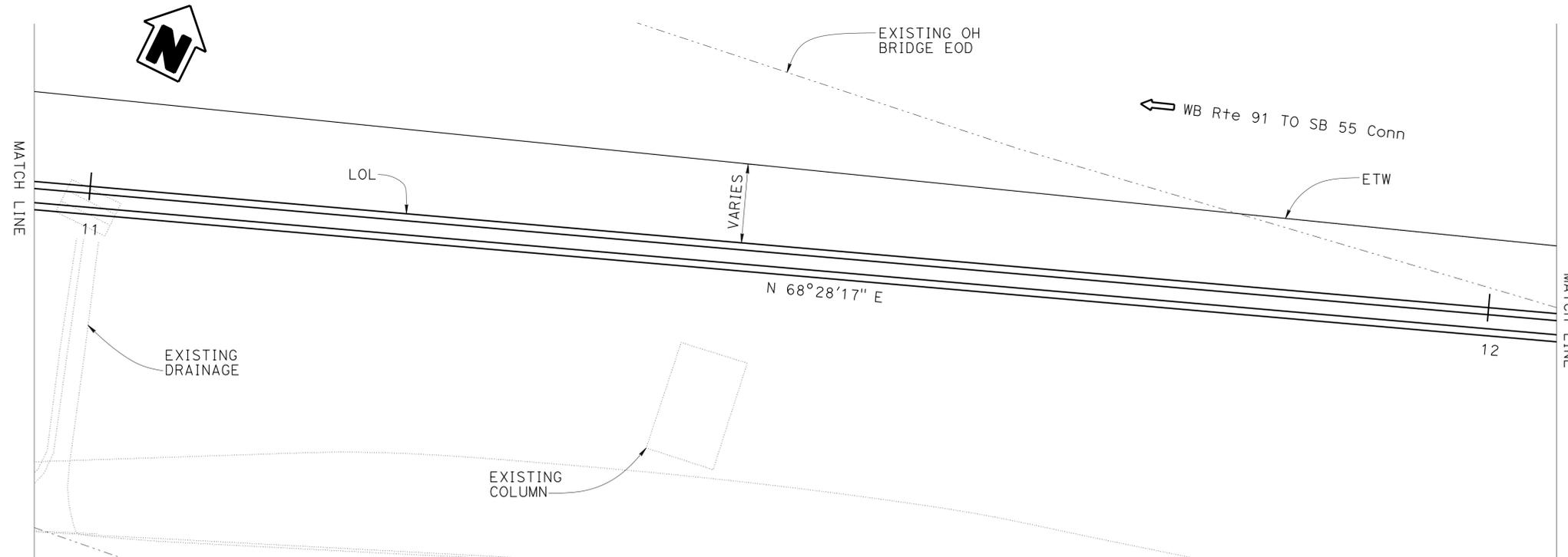
LOCATION 142
STRUCTURE PLAN NO.1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	326	335

Michael R. Pope 06/21/16
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED ELEVATION
1" = 5'



PLAN
1" = 5'

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

- LEGENDS:**
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - Retaining Wall Removal (Portion)

DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY FARIDEN HOSSEINIOUN	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

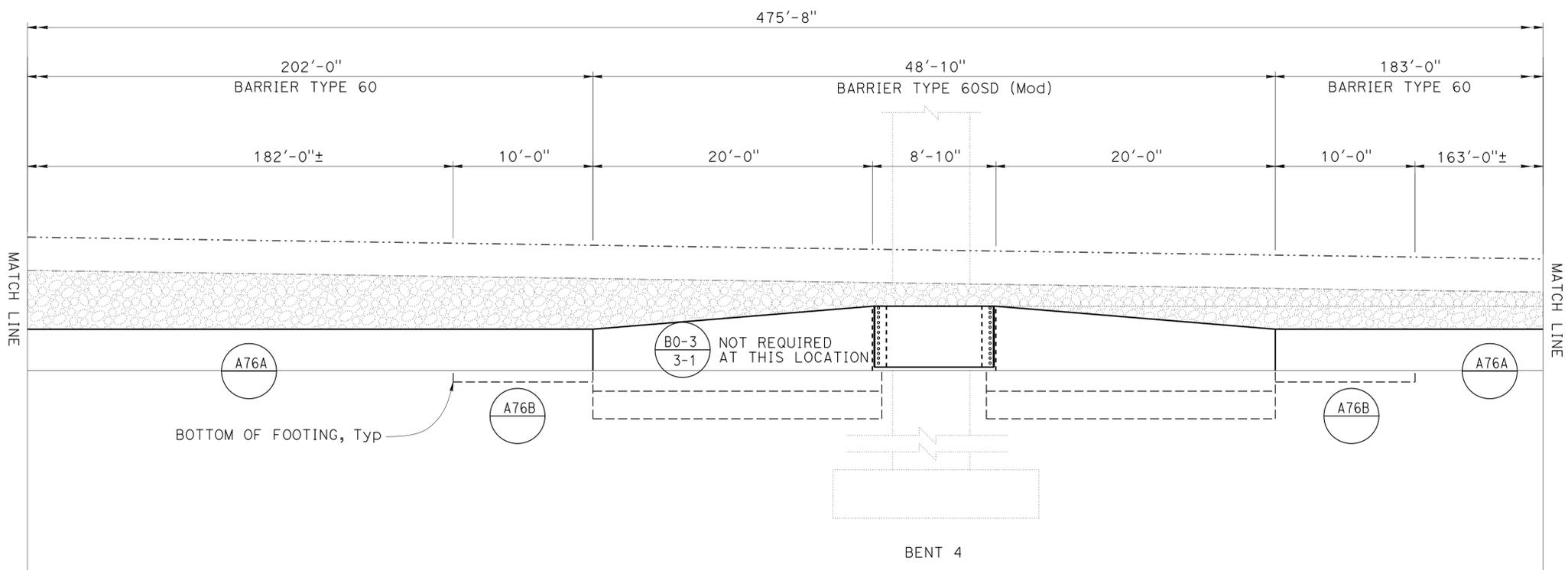
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

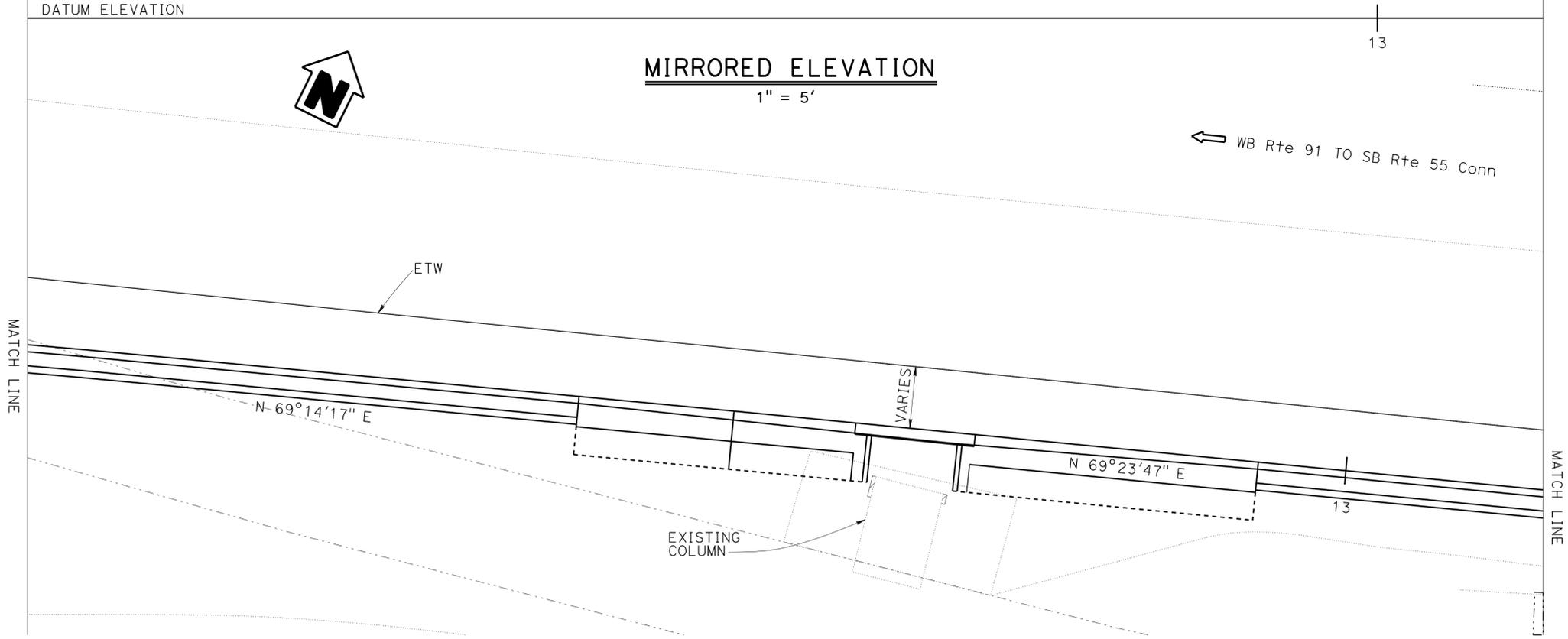
LOCATION 142
STRUCTURE PLANS NO.2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	327	335

Michael R. Pope
 REGISTERED CIVIL ENGINEER DATE 06/21/16
 06-24-16
 PLANS APPROVAL DATE
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
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- LEGENDS:
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - ▨ Retaining Wall Removal (Portion)



PLAN
1" = 5'

DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY FARIDEN HOSSEINIOUN	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

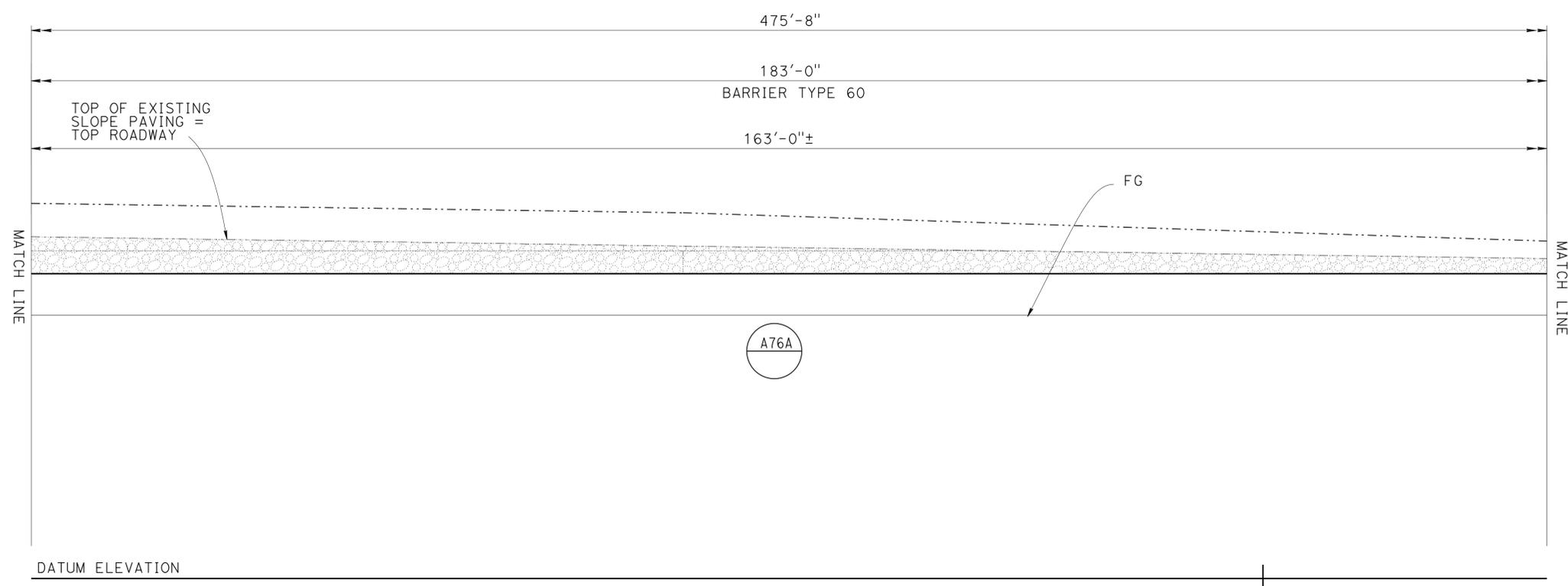
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

LOCATION 142
STRUCTURE PLANS NO.3

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	328	335

Michael R. Pope
 REGISTERED CIVIL ENGINEER DATE 06/21/16
 PLANS APPROVAL DATE 06-24-16
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
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MIRRORED ELEVATION
1" = 5'

- LEGENDS:**
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - ▨ Retaining Wall Removal (Portion)



PLAN
1" = 5'

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

DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY FARIDEN HOSSEINIOUN	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

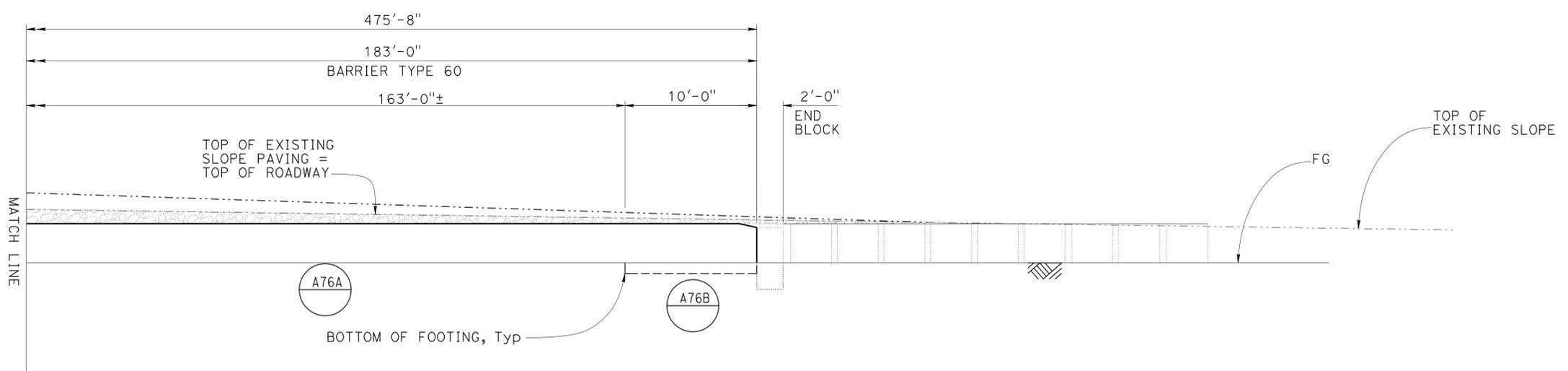
DIVISION OF ENGINEERING SERVICES
 STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

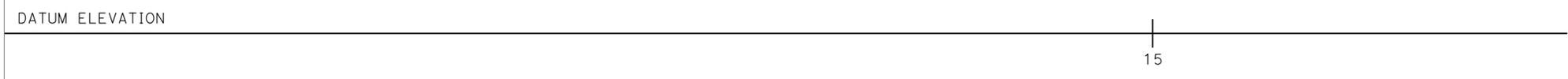
LOCATION 142
STRUCTURE PLANS NO.4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	329	335

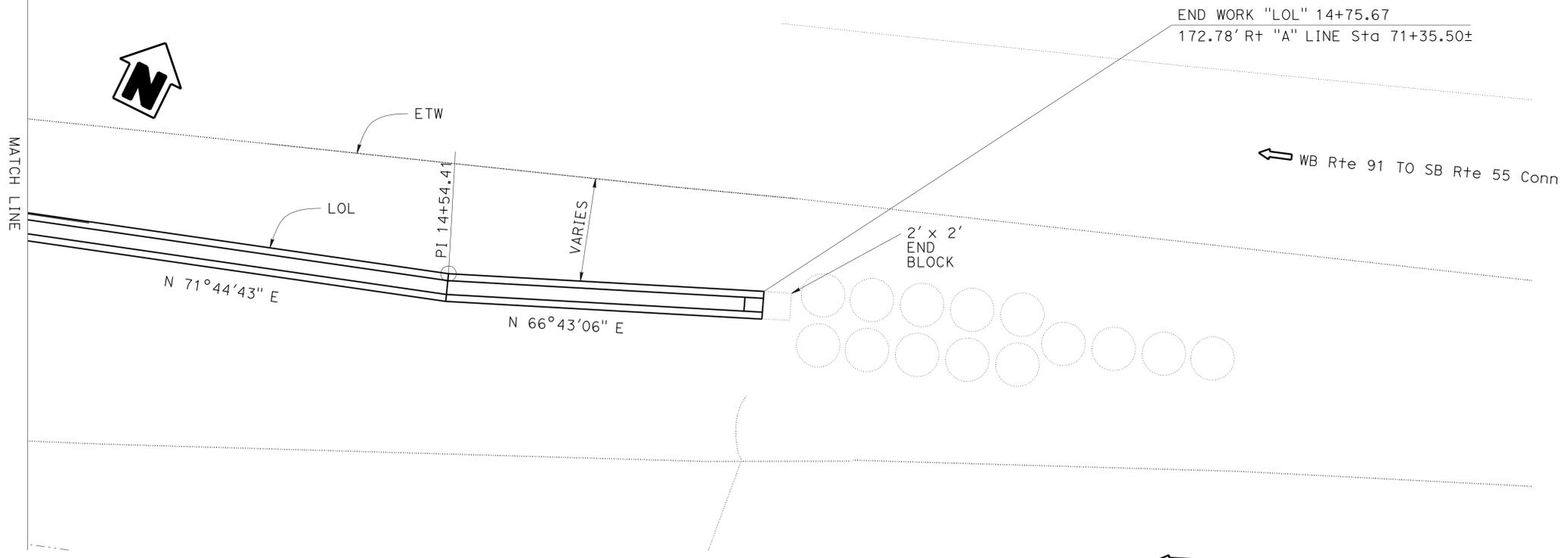
Michael R. Pope 06/21/16
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
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- LEGENDS:**
- Indicates New Structure
 - - - - - Indicates Existing Structure
 - ▨ Retaining Wall Removal (Portion)



MIRRORED ELEVATION
1" = 5'



PLAN
1" = 5'

NOTE:
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DESIGN	BY JEFF DUFFIN	CHECKED SAMAD HAMOUD
DETAILS	BY FARIDEN HOSSEINIQUON	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

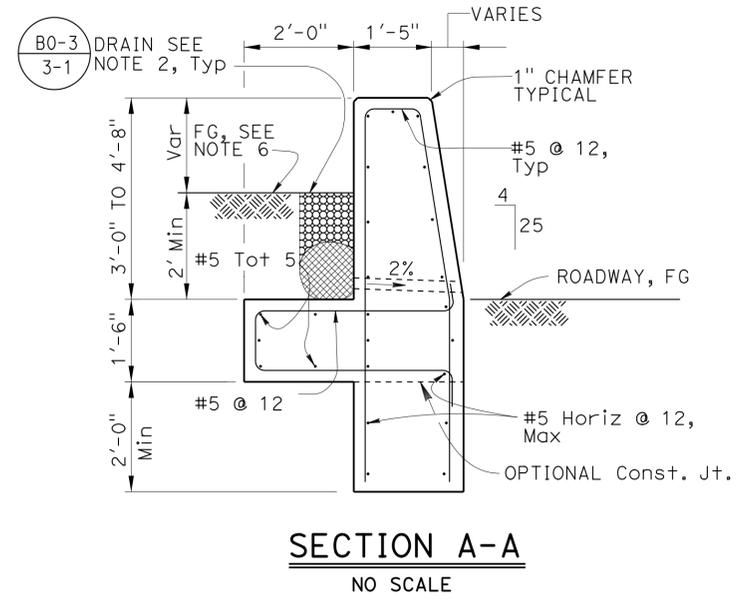
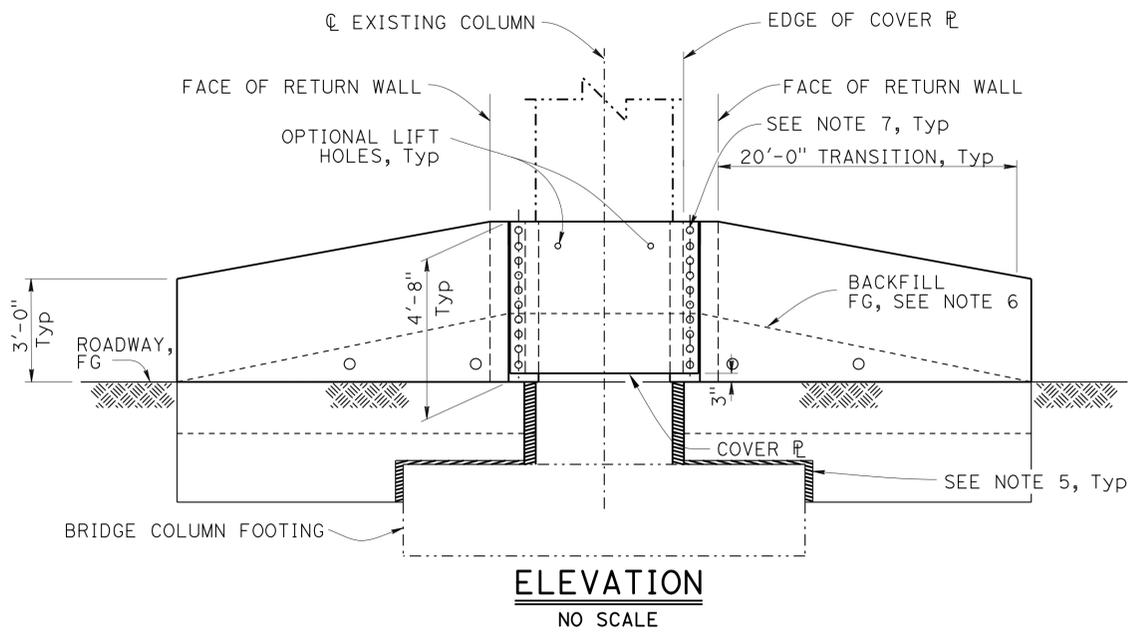
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

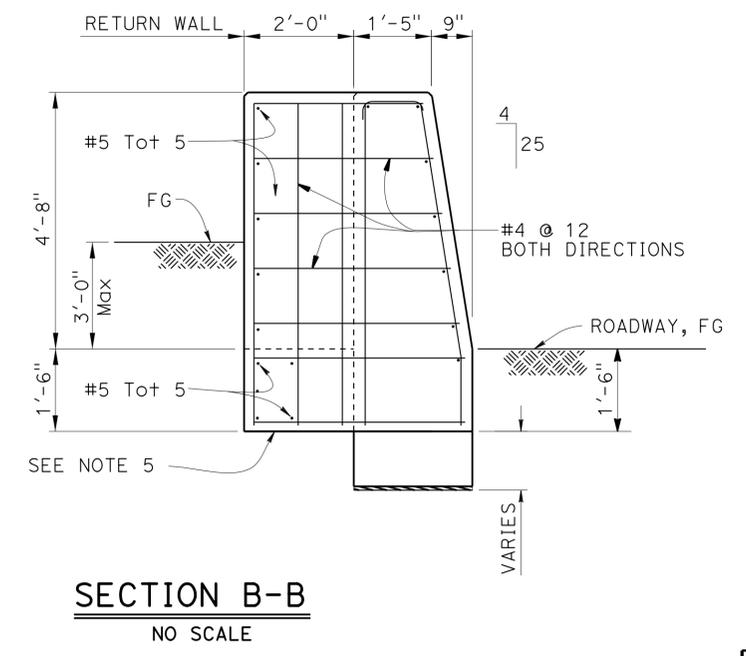
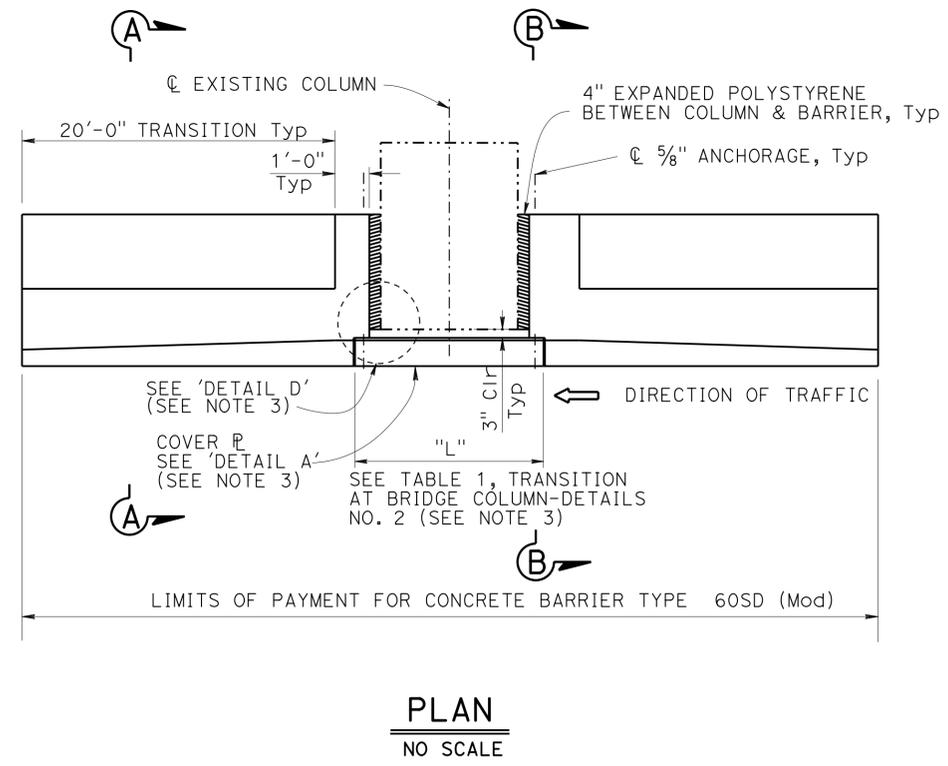
LOCATION 142
STRUCTURE PLANS NO.5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	330	335

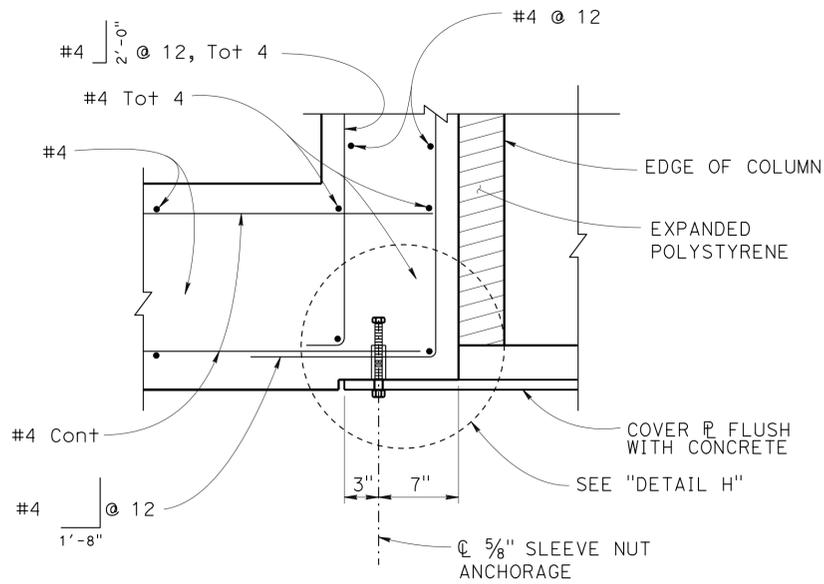
REGISTERED CIVIL ENGINEER DATE 06/21/16
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
 06-24-16
 PLANS APPROVAL DATE
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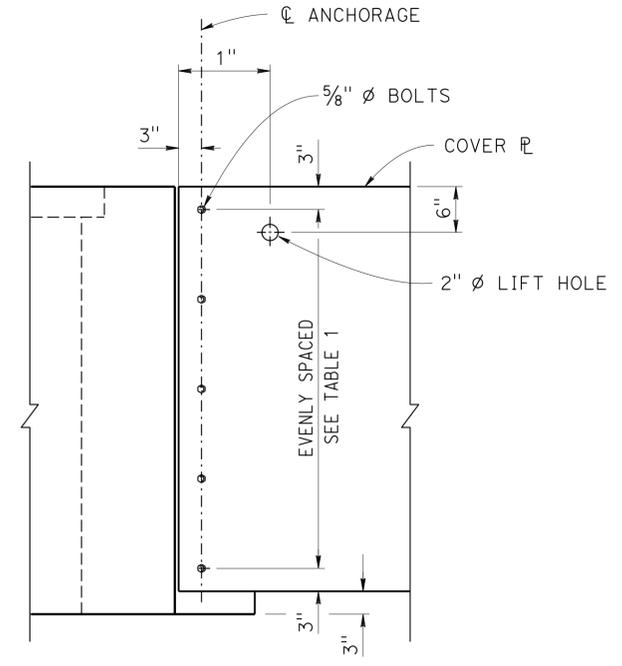
- NOTES:**
1. See "ROADWAY PLANS" for exact alignment of Barrier.
 2. 4" ϕ Drains at 9'-0" center to center see "Details No. 2" for proper Drainage and Gutter Details.
 3. For 'Detail A', 'Table 1', 'Detail D' and 'Backfill Detail', see "CONCRETE BARRIER TYPE 60SD (Mod)-TRANSITION AT BRIDGE COLUMN-DETAILS No. 2" sheet.
 4. Maintain 4" (Min) Styrene to existing Structure.
 5. Where existing bridge footing is encountered, apply 1" Styrene bond breaker between bridge top of footing and new structure; apply 2" Styrene bond breaker between bridge to side of footing and new structure.
 6. Slope backfill to drain any surface water.
 7. All plates & connections must be galvanized.
 8. Details are similar for Hexagonal Columns.



DESIGN BY JEFF DUFFIN CHECKED SAMAD HAMOUD DETAILS BY JAIME RAMIREZ CHECKED JERRY HAN QUANTITIES BY JEFF DUFFIN CHECKED J. HAN/M. POPE			STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO. X POST MILE 17.67	LOCATION 142 CONCRETE BARRIER TYPE 60SD (Mod) TRANSITION AT BRIDGE COLUMN-DETAILS NO.1
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10) ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3603 PROJECT NUMBER & PHASE: 12120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES REVISION DATES: 2-16-16 SHEET 7 OF 12



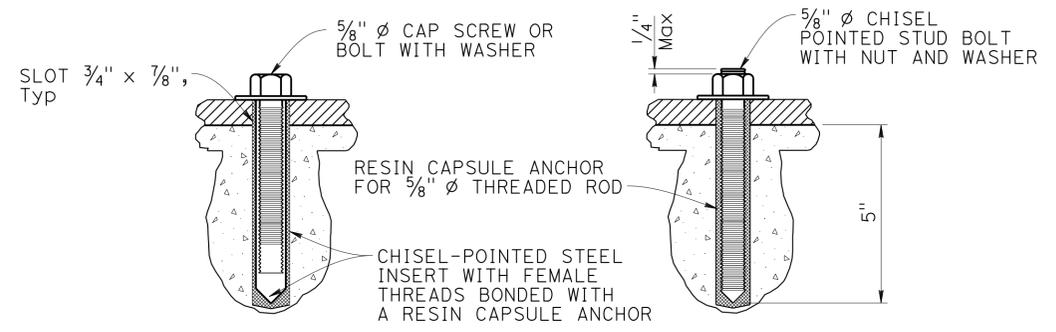
DETAIL B
1/2" = 1'-0"



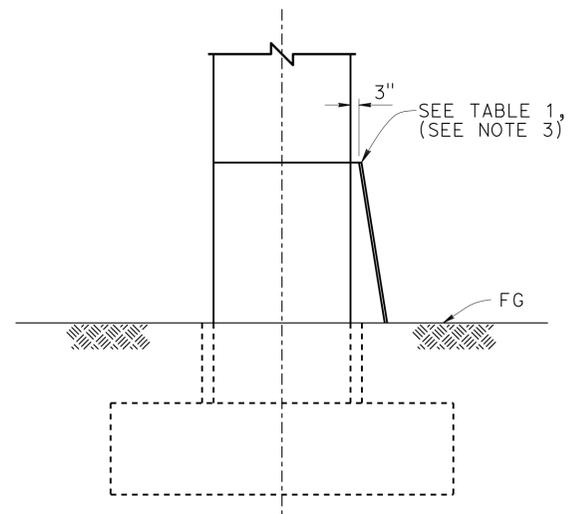
DETAIL D
NO SCALE

L (ft) (NOTE 1)	PLATE THICKNESS (in)	TOTAL No. OF BOLTS
8'-6" Max	7/8	10

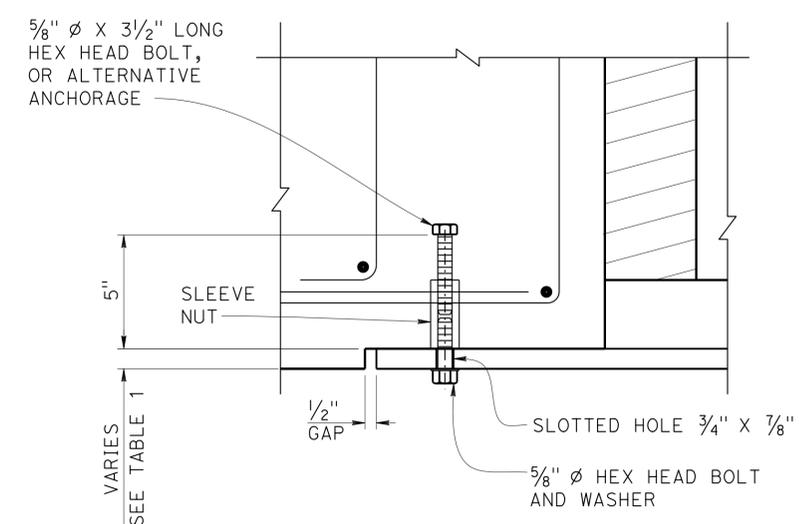
- NOTES:
- Structural steel, $f = 50,000$ psi Unless otherwise noted.
 - For 'Detail A', see 'Plan' on sheet "TRANSITION AT BRIDGE COLUMN-DETAILS NO. 1"
 - For 'Detail B', see 'Plan' on sheet "TRANSITION AT BRIDGE COLUMN-DETAILS NO. 1"



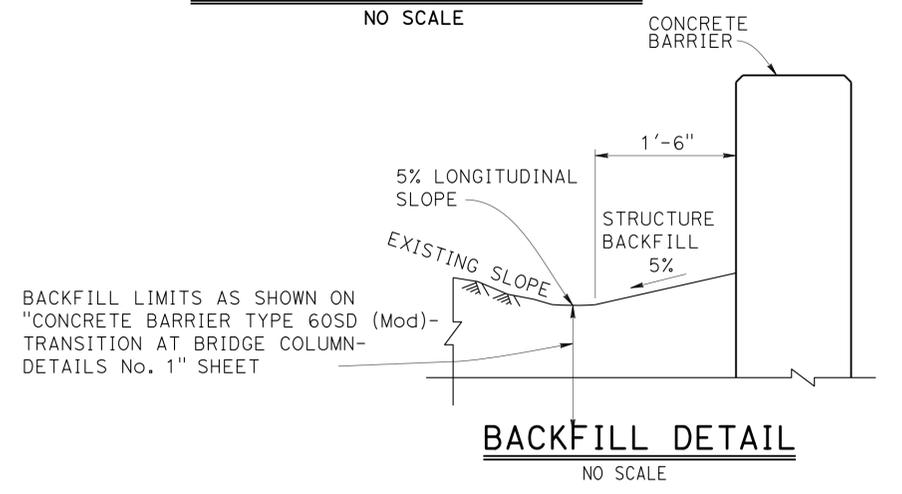
ALTERNATIVE A
ALTERNATIVE B
ALTERNATIVE ANCHORAGE
NO SCALE



DETAIL A
NO SCALE



DETAIL C
3" = 1'-0"



BACKFILL DETAIL
NO SCALE

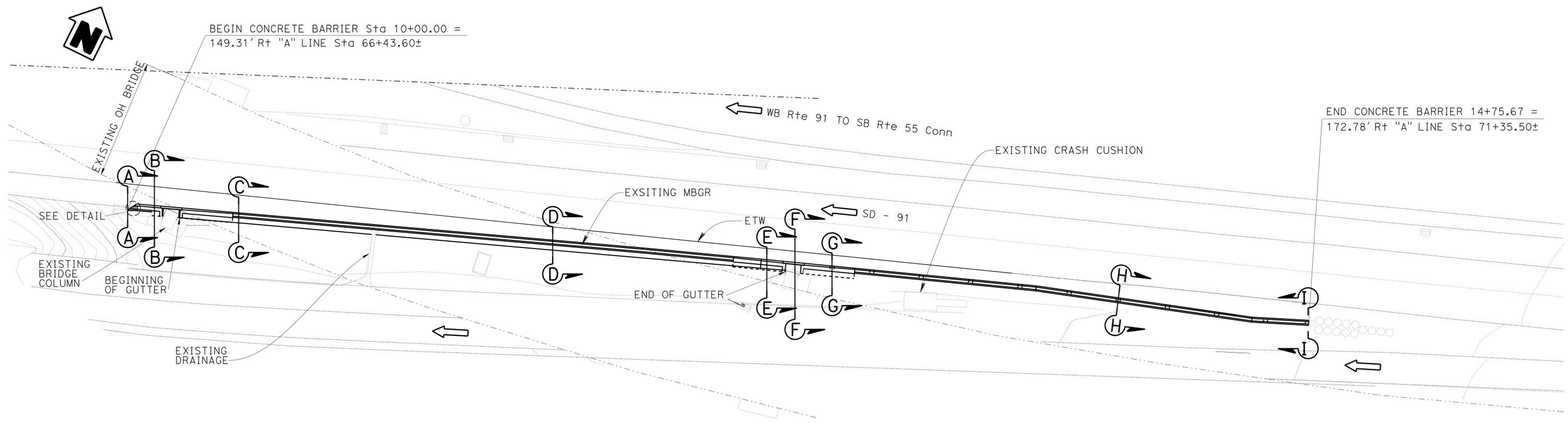
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	332	335

Michael R. Pope 06/21/16
 REGISTERED CIVIL ENGINEER DATE
 06-24-16
 PLANS APPROVAL DATE

Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA

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NOTES:
 For Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H, and I-I see "DRAINAGE DETAILS NO 1 and 2" sheets



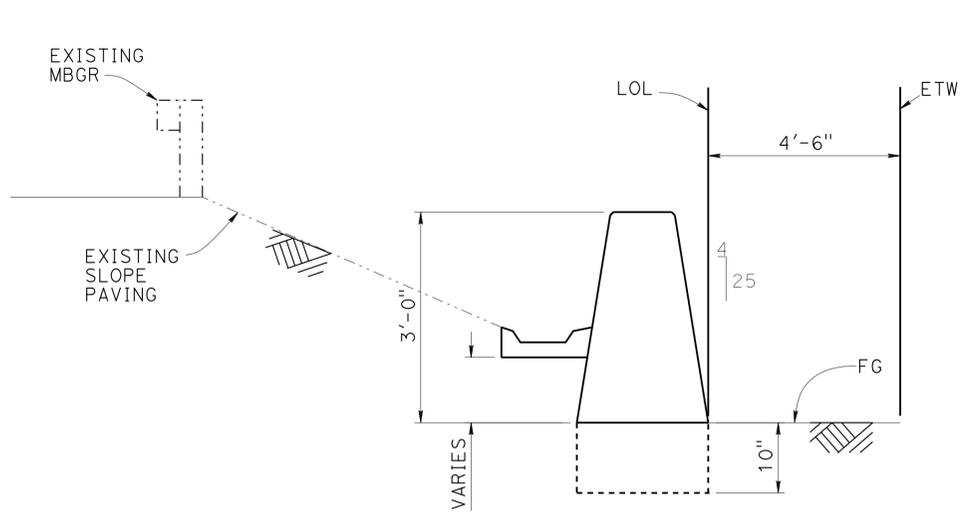
PLAN
 1" = 20'

NOTE:
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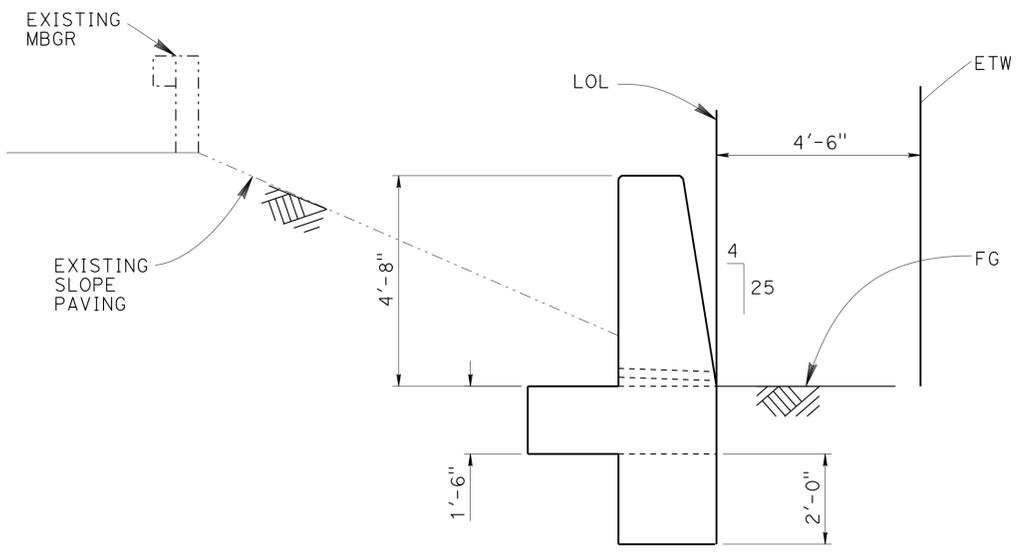
DESIGN BY JEFF DUFFIN CHECKED SAMAD HAMOUD	BY FARIDEN HOSSEINIQUON CHECKED JERRY HAN	BY JEFF DUFFIN CHECKED J. HAN/M. POPE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	LOCATION 142 STRUCTURAL DETAILS & DRAINAGE			
					X				
					POST MILE		17.84		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3603 PROJECT NUMBER & PHASE: 012120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	333	335

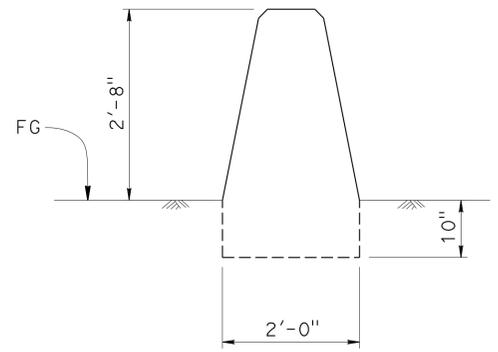
REGISTERED CIVIL ENGINEER DATE 06/21/16
 Michael R. Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
 PLANS APPROVAL DATE 06-24-16
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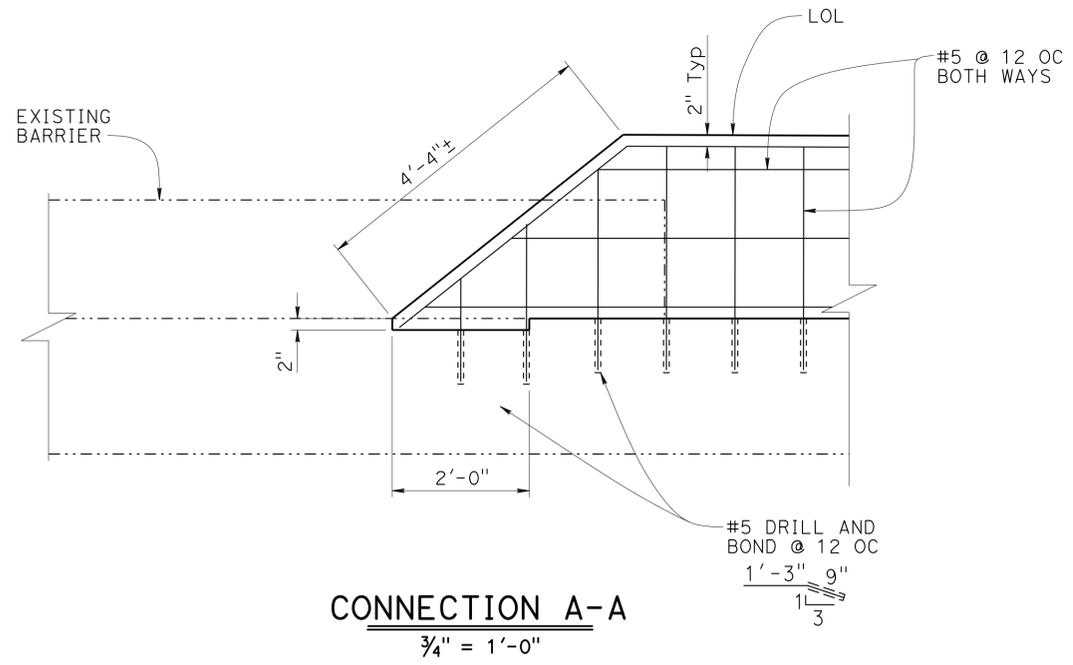
TYPICAL SECTION BARRIER TYPE 60
NO SCALE



TYPICAL SECTION BARRIER 60SD (Mod)
NO SCALE



SECTION I-I
NO SCALE



CONNECTION A-A
 $\frac{3}{4}'' = 1'-0''$

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DETAILS	BY FARIDEN HOSSEINIQUON	CHECKED JERRY HAN
QUANTITIES	BY JEFF DUFFIN	CHECKED J. HAN/M. POPE

STATE OF CALIFORNIA
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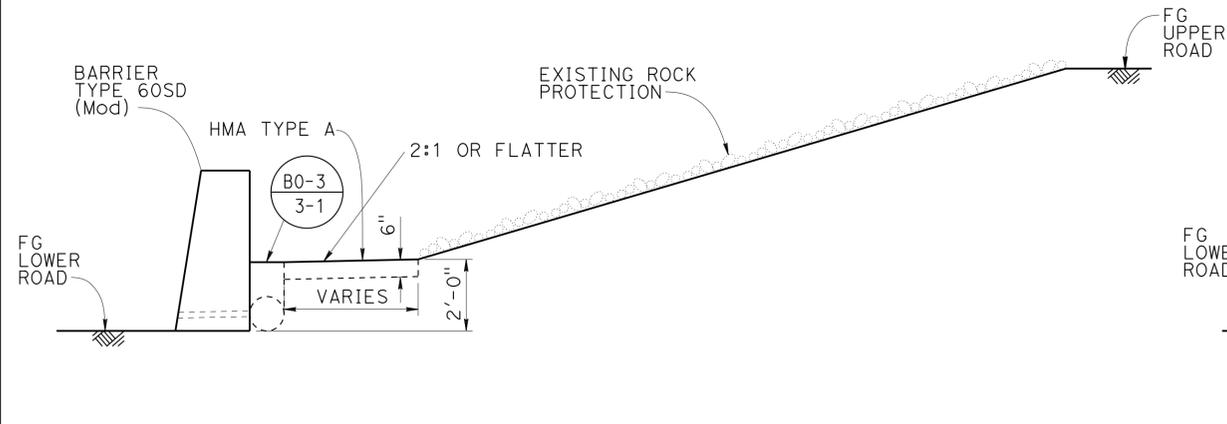
DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

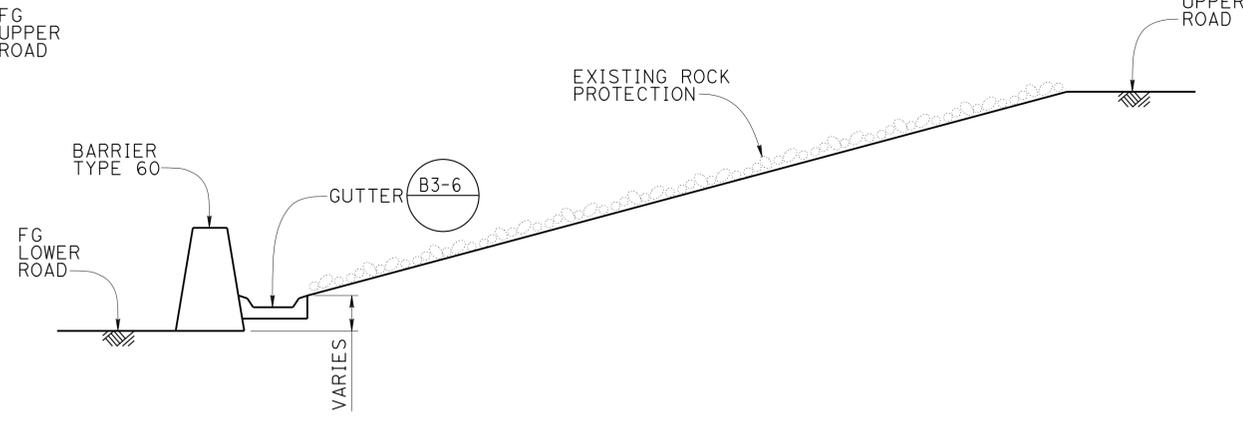
LOCATION 142
STRUCTURAL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	334	335

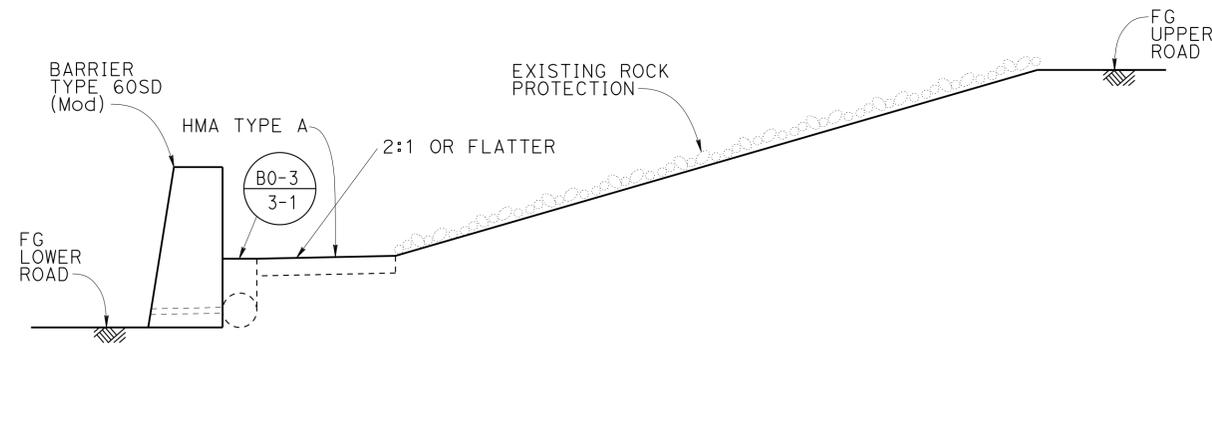
REGISTERED CIVIL ENGINEER DATE 06/21/16
 Michael R Pope
 No. C54503
 Exp. 12-31-17
 CIVIL
 STATE OF CALIFORNIA
 06-24-16
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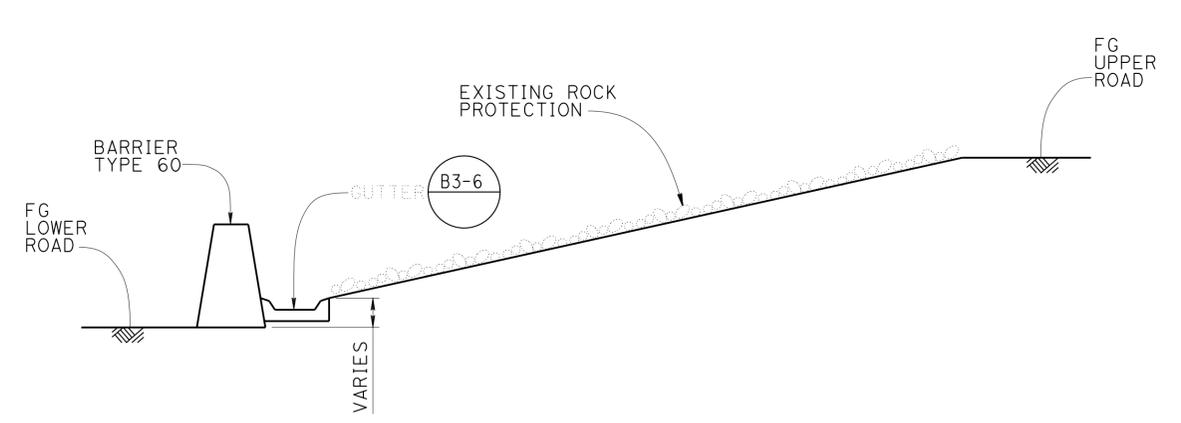
SECTION A-A
3/8" = 1'-0"



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



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



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

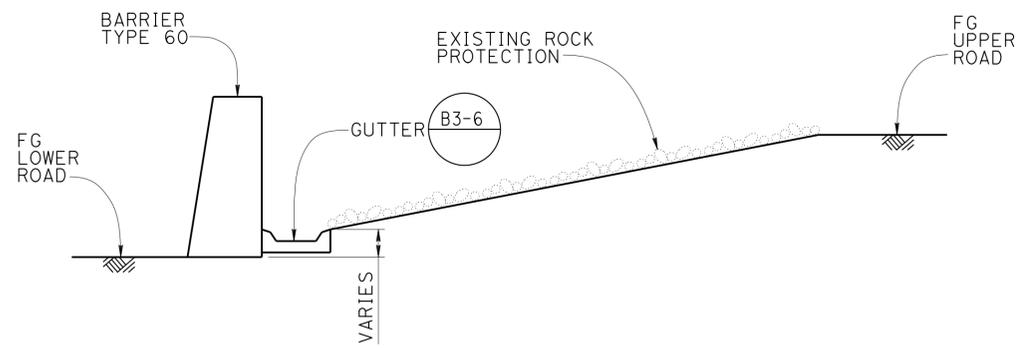
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)	DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE NO.	X	LOCATION 142 DRAINAGE DETAILS NO 1
	DETAILS	BY Jaime Ramirez	CHECKED Jerry Han			POST MILE	17.84	
	QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope			REVISION DATES	7-18-16	
FILE => loc142-k-details01_detail-sheet.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3603 PROJECT NUMBER & PHASE: 012120000921	CONTRACT NO.: 12-0M5004	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 11	OF 12	

USERNAME => s111173 DATE PLOTTED => 31-AUG-2016 TIME PLOTTED => 08:39

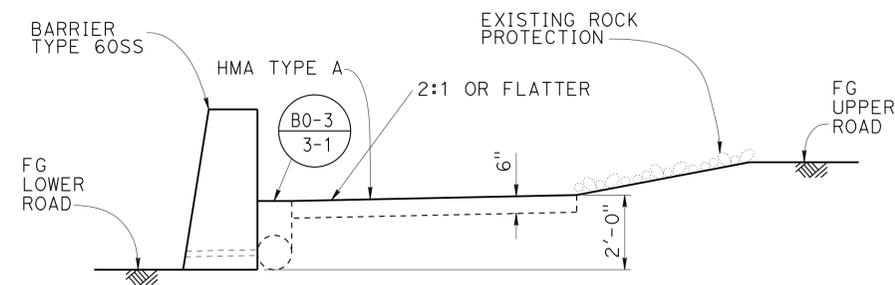
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	ORA	55	1.2/R17.9	335	335

Michael R. Pope 06/21/16
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 06-24-16
 PLANS APPROVAL DATE
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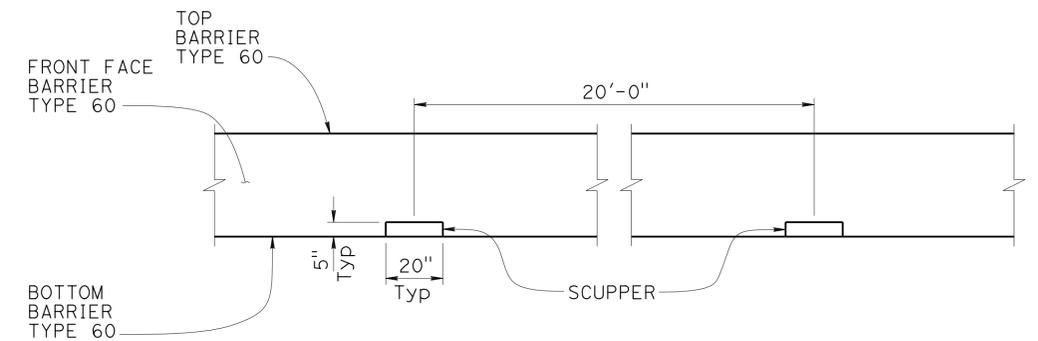
SECTION E-E

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



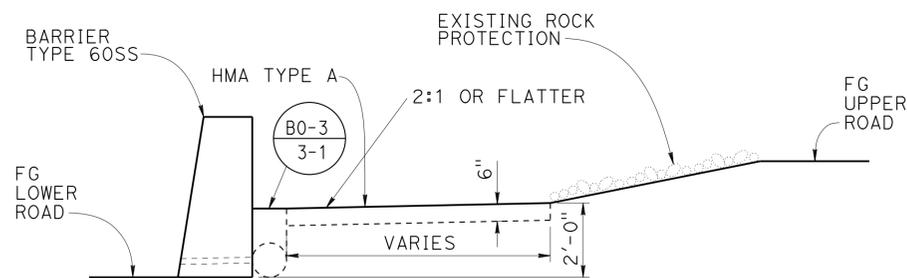
SECTION G-G

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



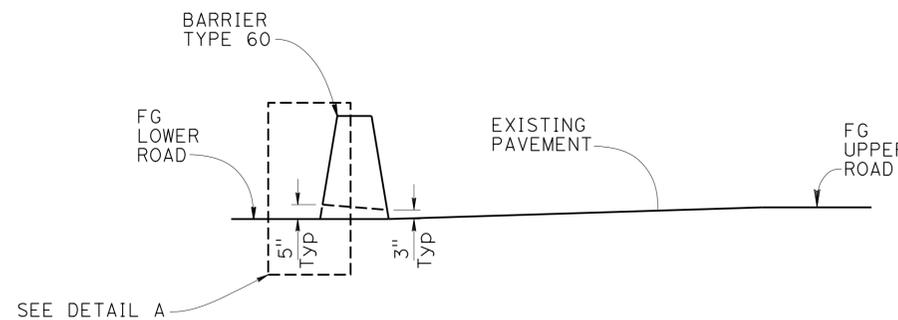
DETAIL A

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



SECTION F-F

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



SECTION H-H

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

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DESIGN	BY Jeff Duffin	CHECKED Samad Hamoud
DETAILS	BY Jaime Ramirez	CHECKED Jerry Han
QUANTITIES	BY Jeff Duffin	CHECKED J. Han/M. Pope

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO.	X
POST MILE	17.84

LOCATION 142
DRAINAGE DETAILS NO 2