

Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

Related Projects:

P. E. UNDER PROJECT: BR 0252-407
Project Number: 17783
Project Code:

Bridge Enterprise Projects:

Project Number: BR 0252-412
Project Code: 18107

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. BR 0252-407 INTERSTATE HIGHWAY 25 / SANTA FE DRIVE DENVER COUNTY CONSTRUCTION PROJECT CODE NO. 17783

TABULATION OF LENGTH & DESIGN DATA

SEE SHEETS DD-1 & DD-2 FOR TABULATION OF LENGTH & DESIGN DATA

PROJECT LOCATION

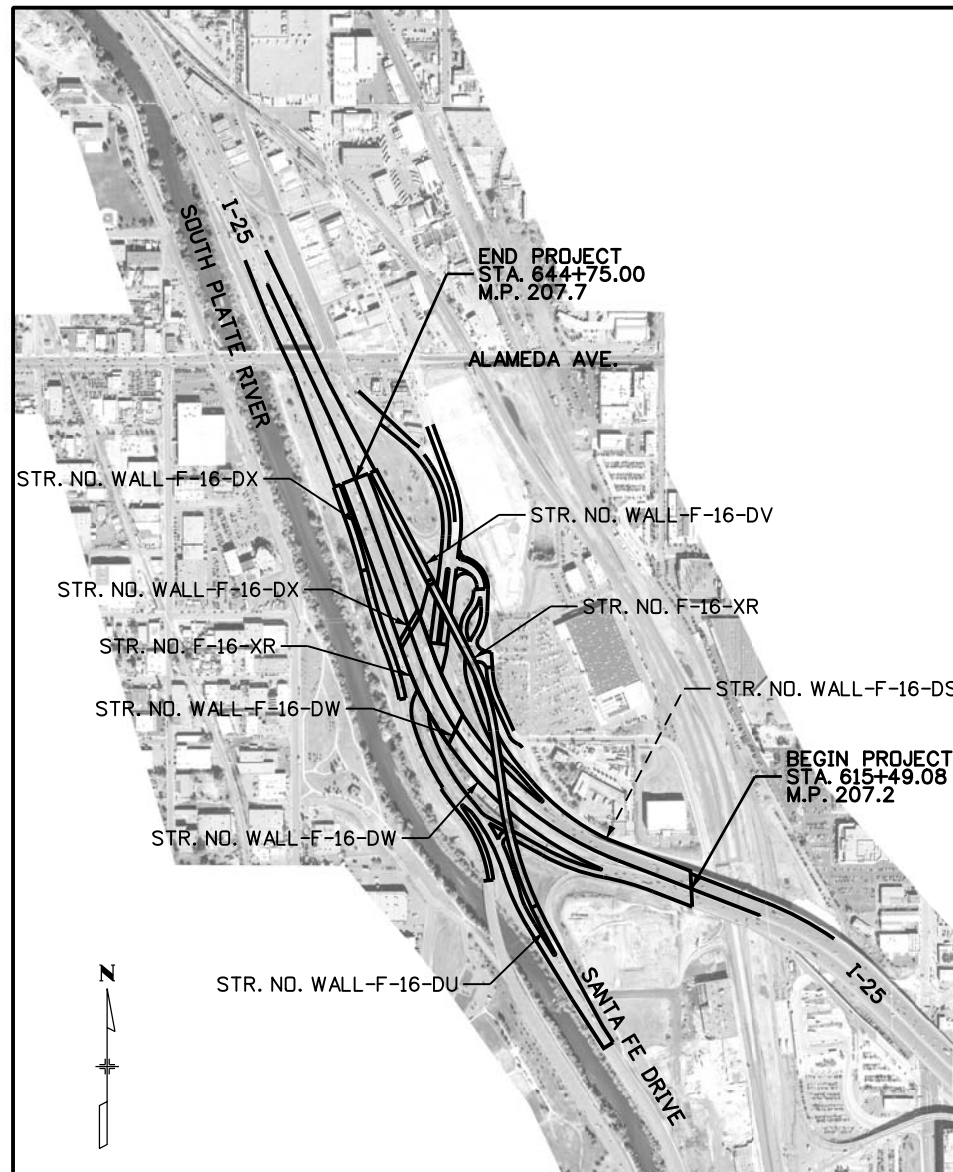
LATITUDE = 104° 59' 56" W

LONGITUDE = 39° 42' 40" N

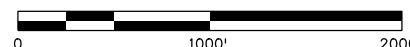
(R-3) 01/10/11 REVISED SHEETS:
1, 6a, 10, 15, 16, 25, 34, 34a, 42, 42a, 102-158b, 475

(R-2) 01/03/11 REVISED SHEETS:
1, 6, 7-42, 84, 102, 106, 107-109, 132, 142-146, 149-160, 165, 172, 176, 184-191, 193-205, 208-213, 216-222, 224-226, 230-232, 237-238, 247, 267, 277-278, 311, 325, 327, 340, 432, 434-437, 439-442, 444-446, 448-451, 453-455, 457, 459-463, 465-468, 470-471, 499-507, 513, 528-531, 535-540, 550, 570-585, 605-663.

(R-1) 12/03/10 REVISED SHEETS:
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PROJECT LOCATION MAP



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606	1	TCP TABULATION OF APPROXIMATE QUANTITIES
607a-663a		TRAFFIC CONTROL PLANS

Print Date: 1/10/2011	Sheet Revisions			Colorado Department of Transportation		As Constructed		Contract Information		Project No./Code		
File Name: 16311DES_PH2_TitleSheet.dgn	Date:	Comments	Init.	8833 South Wadsworth Court Littleton, CO 80128 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		Contractor:		BR 0252-407		
Horiz. Scale: 1:1000 Vert. Scale: As Noted	(R-1)	12/03/10	ADD STR. LABELS			SYS	Revised:		Resident Engineer: Ron Buck		17783	
Unit Information Unit Leader Initials	(R-2)	01/03/11	REVISED SHEETS			SYS	Void:		Project Engineer: Daniel Housand		Sheet Number	
6300 South Syracuse Way Centennial, CO 80111	(R-3)	01/10/11	REVISED SHEETS			SYS			PROJECT STARTED: / / ACCEPTED: / /		1 C	
				Region 6				Comments:				

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 1/10/2011

TABULATION OF ROADWAY LENGTH & DESIGN DATA

ROADWAY LENGTH	FEET					MAJOR STR.
	ROADWAY					
	I-25	NB SANTA FE	SB SANTA FE	HOME DEPOT	I-25 FRONTAGE	
BEGIN I-25 STA. 615+49.08 (Ultimate I-25 Stationing)						
STA. 630+64.10 BEGIN STRUCTURE F-16-XS						
STA. 636+61.09 END STRUCTURE F-16-XS						596.99
END I-25 STA. 644+75.00 (Ultimate I-25 Stationing)	2328.93					
BEGIN NB SANTA FE STA. 712+52.54						
END NB SANTA FE STA. 734+71.79		2219.25				
BEGIN SB SANTA FE STA. 805+00.00						
END SB SANTA FE STA. 818+43.15			1343.15			
BEGIN HOME DEPOT ACCESS ROAD						
STA. 91+70.53						
END HOME DEPOT ACCESS ROAD						
STA. 96+30.82				460.29		
BEGIN I-25 FRONTAGE ROAD						
STA. 12+23.43						
END I-25 FRONTAGE ROAD						
STA. 16+05.58					382.15	
TOTAL	2328.93	2219.25	1343.15	460.29	382.15	596.99
SUMMARY OF PROJECT LENGTH	FEET					MILES
MAJOR STRUCTURE						596.99
PROJECT GROSS LENGTH						0.113
						6733.77
						1.275

ROADWAY DESIGN DATA	I-25	NB SANTA FE	SB SANTA FE
MINIMUM RADIUS OF CURVE	1775 FT	250 FT	222 FT
MAXIMUM GRADE	4.00%	3.75%	1.22%
MINIMUM S.S.D. HORIZONTAL	498 FT	211 FT	152 FT
MINIMUM S.S.D. VERTICAL	771 FT	254 FT	645 FT
MINIMUM DESIGN SPEED	55 MPH	25 MPH	25 MPH
2025 DESIGN TRAFFIC	DHV = 14,500 ADT = 226,000	DHV = 2,500 ADT = 34,600	DHV = 2,400 ADT = 12,800
DHV TRUCK %	6%	12%	12%
MINIMUM CLEAR ZONE DISTANCE (TANGENT)	22 FT	-	-
DESIRABLE CLEAR ZONE DISTANCE (TANGENT)	34 FT	-	-
MINIMUM CLEAR ZONE DISTANCE (RADIUS < 2860 FT)	27 FT	-	-

Print Date: 11/18/2010		Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE TABULATION OF LENGTH & DESIGN DATA	Project No./Code	
File Name: 16311DES_PH2_DesignData1.dgn		Date: 12/3/2010	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	Designer: SPG	BR 0252-407	
Horiz. Scale: 1:1	Vert. Scale: As Noted	Comments: REISSUED SHEET		Init.: SPG	Revised:	Structure:	17783
Unit Information	Unit Leader Initials				Void:	Detailer: SYS	Sheet Number 2 A
 6300 South Syracuse Way Centennial, CO 80111			RLB	Sheet Subset: MISC	Subset Sheets: DD-1 of 2		

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 11/18/2010 CDDT-DefaultPrinter_XMplctfg CDDT-PenTable.tbl

TABULATION OF RAMPS LENGTH & DESIGN DATA

RAMP LENGTH	FEET				MAJOR STR.
	RAMP 1	RAMP 2	RAMP 3	RAMP 4	
BEGIN RAMP 1 STA. 104+91.95					
STA. 111+61.45 BEGIN STRUCTURE F-16-XR					
STA. 129+60.61 END STRUCTURE F-16-XR					1799.16
END RAMP 1 STA. 135+99.06	1307.95				
BEGIN RAMP 2 STA. 205+01.96					
END RAMP 2 STA. 219+27.60		1425.64			
BEGIN RAMP 3 STA. 303+02.72					
END RAMP 3 STA. 309+63.00			660.28		
BEGIN RAMP 4 STA. 404+27.16					
END RAMP 4 STA. 415+91.51				1164.35	
TOTAL	1307.95	1425.64	660.28	1164.35	1799.16
SUMMARY OF PROJECT LENGTH	FEET				MILES
MAJOR STRUCTURE	1799.16				0.341
PROJECT GROSS LENGTH	4558.22				0.863

RAMP DESIGN DATA	RAMP 1	RAMP 2	RAMP 3	RAMP 4
MINIMUM RADIUS OF CURVE	1160 FT	278 FT	1050 FT	1512 FT
MAXIMUM GRADE	5.00%	3.75%	6.50%	3.59%
MINIMUM S.S.D. HORIZONTAL	305 FT	244 FT	431 FT	409 FT
MINIMUM S.S.D. VERTICAL	415 FT	534 FT	331 FT	378 FT
MINIMUM DESIGN SPEED	40 MPH	25 MPH	35 MPH	45 MPH
2025 DESIGN TRAFFIC	DHV = 2,800 ADT = 34,300	DHV = 1,150 ADT = 11,300	DHV = 1,350 ADT = 13,000	DHV = 2,550 ADT = 37,200
DHV TRUCK %	9%	9%	9%	9%
MINIMUM CLEAR ZONE DISTANCE (TANGENT)	14 FT	14 FT	14 FT	14 FT
DESIRABLE CLEAR ZONE DISTANCE (TANGENT)	24 FT	24 FT	24 FT	24 FT
MINIMUM CLEAR ZONE DISTANCE (RADIUS < 2860 FT)	17 FT	19 FT	20 FT	17 FT

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Print Date: 11/18/2010		Sheet Revisions Date: 12/3/2010 Comments: REISSUED SHEET Init: SPG			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE TABULATION OF LENGTH & DESIGN DATA		Project No./Code	
File Name: 16311DES_PH2_DesignData2.dgn		BR 0252-407								
Horiz. Scale: 1:1 Vert. Scale: As Noted		17783								
Unit Information Unit Leader Initials	Sheet Number 3 A		Designer: SPG Structure Detailer: SYS Numbers Sheet Subset: MISC Subset Sheets: DD-2 of 2							

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 6300 South Syracuse Way
 Centennial, CO 80111


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PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/>		M-100-1 STANDARD SYMBOLS (3 SHEETS).....	1-3	<input type="checkbox"/>		M-607-1 WIRE FENCES AND GATES (3 SHEETS).....	84-86	S-612-1	<input checked="" type="checkbox"/>	DELINEATOR INSTALLATIONS (6 SHEETS) (REVISED, JULY 01, 2010)....	131 135
<input type="checkbox"/>		M-203-1 APPROACH ROADS	4	<input checked="" type="checkbox"/>		M-607-2 CHAIN LINK FENCE (3 SHEETS).....	87-89	S-614-1	<input checked="" type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS).....	136-137
<input type="checkbox"/>		M-203-2 DITCH TYPES.....	5	<input type="checkbox"/>		M-607-3 BARRIER FENCE.....	90	S-614-2	<input checked="" type="checkbox"/>	CLASS I SIGNS.....	138
<input checked="" type="checkbox"/>		M-203-11 SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS).....	6-8	<input type="checkbox"/>		M-607-4 DEER FENCE AND GATES (2 SHEETS).....	91-92	S-614-3	<input checked="" type="checkbox"/>	CLASS II SIGNS.....	139
<input checked="" type="checkbox"/>		M-203-12 SUPERELEVATION STREETS (2 SHEETS).....	9-10	<input type="checkbox"/>		M-607-10 PICKET SNOW FENCE	93	S-614-4	<input type="checkbox"/>	CLASS III SIGNS (3 SHEETS) (REVISED, DECEMBER 29, 2009)	140-142
<input checked="" type="checkbox"/>		M-206-1 EXCAVATION AND BACKFILL FOR STRUCTURES.....	11-12 (2 SHEETS)	<input type="checkbox"/>		M-607-15 ROAD CLOSURE GATE (9 SHEETS).....	94-102	S-614-5	<input checked="" type="checkbox"/>	BREAK-AWAY SIGN SUPPORT DETAILS.....	143-144 (2 SHEETS)
<input checked="" type="checkbox"/>		M-206-2 EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)....	13-14	<input type="checkbox"/>		M-608-1 CURB RAMPS (4 SHEETS).....	103-106	S-614-6	<input checked="" type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS.....	145-146 (2 SHEETS)
<input type="checkbox"/>		M-208-1 TEMPORARY EROSION CONTROL (12 SHEETS) (REVISED ON AUGUST 26, 2010)	15 21	<input type="checkbox"/>		M-609-1 CURBS, GUTTERS, AND SIDEWALKS (3 4 SHEETS) (REVISED ON JULY 09, 2009)	107 109	S-614-8	<input type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (5 SHEETS) (REVISED ON SEPT. 01, 2010)	147 151
<input type="checkbox"/>		M-210-1 MAILBOX SUPPORTS (2 SHEETS).....	22-23	<input checked="" type="checkbox"/>		M-611-1 CATTLE GUARD (2 SHEETS).....	110-111	S-614-10	<input checked="" type="checkbox"/>	MARKER ASSEMBLY INSTALLATIONS	152
<input checked="" type="checkbox"/>		M-214-1 PLANTING DETAILS.....	24	<input type="checkbox"/>		M-613-1 ROADWAY LIGHTING (4 SHEETS).....	112-115	S-614-11	<input checked="" type="checkbox"/>	MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS (NEW, JUNE 22, 2009)	153
<input type="checkbox"/>		M-412-1 CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 09, 2009)	25 29	<input type="checkbox"/>		M-614-1 RUMBLE STRIPS (3 SHEETS).....	116-118	S-614-12	<input checked="" type="checkbox"/>	STRUCTURE NUMBER INSTALLATION	154
<input type="checkbox"/>		M-510-1 STRUCTURAL PLATE PIPE H-20 LOADING.....	30	<input type="checkbox"/>		M-614-2 SAND BARREL ARRAYS (2 SHEETS).....	119-120	S-614-14	<input type="checkbox"/>	FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS).....	154-156
<input type="checkbox"/>		M-601-1 SINGLE CONCRETE BOX CULVERT (2 SHEETS).....	31-32	<input type="checkbox"/>		M-615-1 EMBANKMENT PROTECTOR TYPE 3.....	121	S-614-20	<input checked="" type="checkbox"/>	TYPICAL POLE MOUNT SIGN INSTALLATIONS.....	157
<input type="checkbox"/>		M-601-2 DOUBLE CONCRETE BOX CULVERT (2 SHEETS).....	33-34	<input type="checkbox"/>		M-615-2 EMBANKMENT PROTECTOR TYPE 5.....	122	S-614-21	<input checked="" type="checkbox"/>	CONCRETE BARRIER SIGN POST INSTALLATIONS.....	158
<input type="checkbox"/>		M-601-3 TRIPLE CONCRETE BOX CULVERT (2 SHEETS).....	35-36	<input type="checkbox"/>		M-616-1 INVERTED SIPHON.....	123	S-614-22	<input checked="" type="checkbox"/>	TYPICAL MULTI-SIGN INSTALLATIONS.....	159
<input type="checkbox"/>		M-601-10 HEADWALL FOR PIPES.....	37	<input type="checkbox"/>		M-620-1 FIELD LABORATORY CLASS 1.....	124	S-614-40	<input type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS.....	160-166 (7 SHEETS)
<input type="checkbox"/>		M-601-11 TYPE "S" SADDLE HEADWALLS FOR PIPE.....	38	<input checked="" type="checkbox"/>		M-620-2 FIELD LABORATORY CLASS 2.....	125	S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS....	167-171 (5 SHEETS)
<input type="checkbox"/>		M-601-12 HEADWALLS AND PIPE OUTLET PAVING	39	<input type="checkbox"/>		M-620-11 FIELD OFFICE CLASS 1.....	126	S-614-50	<input checked="" type="checkbox"/>	MONOTUBE OVERHEAD SIGNS (14 SHEETS).....	172-185
<input type="checkbox"/>		M-601-20 WINGWALLS FOR PIPE OR BOX CULVERTS.....	40	<input type="checkbox"/>		M-620-12 FIELD OFFICE CLASS 2.....	127	S-627-1	<input checked="" type="checkbox"/>	PAVEMENT MARKINGS (5 SHEETS) (REVISED ON JULY 28, 2009)	186 190
<input type="checkbox"/>		M-603-1 METAL PIPE (4 SHEETS) (REVISED ON FEBRUARY 25, 2010)	41 42	<input checked="" type="checkbox"/>		M-629-1 SURVEY MONUMENTS (2 SHEETS).....	128-129	S-630-1	<input checked="" type="checkbox"/>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (REVISED ON SEPT. 15, 2010)	191 202 (42 19 SHEETS)
<input checked="" type="checkbox"/>		M-603-2 REINFORCED CONCRETE PIPE.....	43					S-630-2	<input checked="" type="checkbox"/>	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP).....	203
<input type="checkbox"/>		M-603-3 PRECAST CONCRETE BOX CULVERT (REVISED ON JULY 09, 2009)	44					S-630-3	<input checked="" type="checkbox"/>	FLASHING BEACON (PORTABLE) DETAILS.....	204
<input type="checkbox"/>		M-603-4 CORRUGATED POLYETHYLENE PIPE (AASHTO M294) (REV. ON FEB. 25, 2010)	44					S-630-4	<input checked="" type="checkbox"/>	STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (NEW, MARCH 22, 2010)	204
<input type="checkbox"/>		M-603-5 POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) (NEW ON FEB. 25, 2010)	45-46								
<input checked="" type="checkbox"/>		M-603-10 CONCRETE AND METAL END SECTIONS (2 SHEETS).....	45-46								
<input checked="" type="checkbox"/>		M-604-10 INLET, TYPE C.....	47								
<input checked="" type="checkbox"/>		M-604-11 INLET, TYPE D.....	48								
<input type="checkbox"/>		M-604-12 CURB INLET TYPE R (2 SHEETS).....	49-50								
<input type="checkbox"/>		M-604-13 CONCRETE INLET TYPE 13.....	51								
<input checked="" type="checkbox"/>		M-604-20 MANHOLES (3 SHEETS).....	52-54								
<input checked="" type="checkbox"/>		M-604-25 VANE GRATE INLET (5 SHEETS).....	55-59								
<input type="checkbox"/>		M-605-1 SUBSURFACE DRAINS (REVISED ON JULY 09, 2009)	60								
<input type="checkbox"/>		M-606-1 GUARDRAIL TYPE 3 W-BEAM (17 SHEETS) (REVISED ON AUG. 11, 2010)	61 76								
<input type="checkbox"/>		M-606-13 GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS).....	77-80								
<input checked="" type="checkbox"/>		M-606-14 PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS).....	81-83								

THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

COLORADO
 DEPARTMENT OF TRANSPORTATION
 STANDARD PLANS LIST
 M&S STANDARDS
 July 04, 2006
 Revised on September 01, 2010

Print Date: 11/18/2010	Sheet Revisions			Colorado Department of Transportation			As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code	
File Name: 16311DES_PH2_StdPlanList.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB			No Revisions:		STANDARD PLANS LIST		BR 0252-407	
Horiz. Scale: 1:1	12-03-10	REVISED SHEET	SYS									
Unit Information												
Unit Leader Initials						Designer: CDDT	Structure Numbers	17783		Sheet Number 4 A		
						Detailer: SYS		Sheet Subset: ROADWAY				Subset Sheets: SP-1 of 1



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 UTLEY
 6300 South Syracuse Way
 Centennial, CO 80111

GENERAL NOTES

1. All construction shall be completed per the Colorado Department of Transportation (CDOT) Standard Plans and Specifications, latest edition, or as shown.
2. TOPO and existing grading shown in these plans, along I-25 from approximately Station 634+80 to Station 668+00 and along Santa Fe at the I-25 over Santa Fe Bridge, is based on contract plans for CDOT Project No. ES6 C010-101. The Contractor shall field verify actual topography and grading in these areas prior to construction.
3. The information shown on these plans concerning the type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor's attention is directed to Subsection 105.10 of the CDOT Standard Specifications for Road and Bridge Construction. The Contractor shall determine the type and location of underground utilities as may be necessary to avoid damage thereto. The Contractor shall comply with Article 1.5 of Title 9, CRS ("Excavation Requirements") when excavating or grading is planned in the area of underground utility facilities. The Contractor shall notify all affected utilities at least two (2) business days, not including the actual day of notice, prior to commencing such operations. The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at 811 or 1-800-922-1987, to have locations of UNCC registered lines marked by member companies. All other underground facilities shall be located by contacting the respective owner. Utility service laterals shall also be located prior to beginning excavation or grading. The Contractor shall locate non-member utilities, such as storm sewer and ditch facilities as necessary to prevent damage thereto.
4. The Contractor shall be responsible for contacting and coordinating with the appropriate utility representatives to be onsite during potholing. The Contractor shall refer to the utility specification for additional requirements.
5. It is suggested that the Contractor initiate a request to Xcel Energy for any construction related temporary electrical power sources as soon as possible. The request is to be processed through Xcel Energy-Builder's Call Line at 1-800-628-2121.
6. It is suggested that the Contractor call Xcel Energy at 1-800-895-1999 for an electric emergency.
7. It is suggested that the Contractor call Xcel Energy at 1-800-895-2999 for a gas emergency.
8. Any curb and gutter or asphalt or concrete pavement, which is to remain and is damaged as a result of the Contractor's operation, shall be replaced at the Contractor's expense.
9. All references to SMA shall be taken to be Stone Matrix Asphalt (Fibers)(Asphalt) or SMA (Fibers)(Asphalt).
10. The nominal maximum aggregate size for SMA shall be one-half inch.
11. SMA shall not contain reclaimed asphalt pavement.
12. For preliminary plan quantities of pavement materials, the following rates of application were used:
 Tack Coat Diluted Emulsified Asphalt.....@ 0.1 Gals./Sq. Yd. (Diluted) (or as determined by the Engineer at the time of application).
 Hot Mix Asphalt.....@ 110 Lbs./Sq. Yd./Inch
 Stone Matrix Asphalt (Fibers)(Asphalt).....@ 110 LBS/Sq. Yd./Inch
 Aggregate Base Course Class 6.....@ 133 Lbs./Cu. Ft.
13. A tack coat is required between layers of bituminous pavement. Diluted emulsified asphalt for tack coat shall consist of 1 part emulsified asphalt and 1 part water.
14. Where new pavement is to abut existing pavement, the existing pavement shall be removed to a neat vertical line using a cutting saw or other method as approved by

- the Engineer. Saw cutting asphalt will not be paid for separately, but shall be included in the cost of Removal of Asphalt Mat, or Removal of detour as appropriate.
15. Any layer of bituminous pavement that is to have a succeeding layer placed thereon shall be completed full width before succeeding layer is placed.
16. Asphalt patching shall be to the depth of the surrounding existing pavement as directed by the Engineer. Lower lifts may utilize HMA (S)(100)(PG 64-22). The top lift should match the surrounding pavement, be it HMA (S)(100)(PG 64-22), HMA (SX)(100)(PG 76-28), or SMA (Fibers)(Asphalt). The thickness of subsequent lifts must be equal or greater than the lift directly above. The minimum lift thicknesses shall be 2 and 3 inches, respectively and the minimum total thickness shall be 9 inches.
17. Prior to placing bituminous pavement, the paved surface shall be swept and cleaned. This will not be paid for separately, but shall be included in the cost of the Hot Mix Asphalt Pavement item.
18. Incentive/disincentive payments will not be used for HMA smoothness, but for quality purposes the HMA smoothness category will be HRI Category I.
19. All travel lanes of the final PCCP section will be subject to incentive/disincentive payments for smoothness. The PCCP smoothness category is Category II.
20. Class E concrete, if used on the project, shall attain a minimum compressive strength of 2500 psi within 3 hours.
21. The Contractor shall not park any vehicles or equipment in, or disturb any areas not approved by the Engineer.
22. Water shall be used as a dust palliative where required. Locations shall be as directed by the Engineer. Water for a dust palliative will not be paid for separately, but shall be included in the work. Contaminated groundwater can not be used as a dust palliative.
23. Moisture-density control will be required for the full depth of those embankments on this project.
24. Excavation required for compaction of bases of cuts and fills will be considered as subsidiary to that operation and will not be paid for separately.
25. Type of compaction for this project will be AASHTO T-99 for cohesive soils and T-180 for granular soils as described in Section 203.07 of the CDOT Standard Specifications.
26. Concrete pipe joint fasteners as shown on M-Standard are required on:
 All concrete culvert installations excluding side drains.
27. To provide for adequate sulfate resistance in all concrete supplied for this project, Severity of Potential Exposure is Class 2. The Contractor may at his own expense have a certified laboratory test the subgrade as per the Field Materials Manual. Testing shall be the same schedule and frequency as required for a preliminary soils survey. The Contractor may propose a different Class of Exposure for the project based on those test results.
28. The Contractor shall protect all existing survey monumentation designated to remain from damage during construction operations. Any monuments disturbed by the Contractor that are not designated for relocation, shall be reset at the Contractor's expense. The Contractor and Engineer shall note those monuments in the field prior to construction. See Tabulation of Survey.

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File Name: 16311DES_PH2_GenNotes1.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		GENERAL NOTES		BR 0252-407				
Horiz. Scale: 1:1 Vert. Scale: As Noted		12/03/10	ADDED NOTES	SYS					Revised:				Designer: KRK	Structure Numbers:	17783
Unit Information Unit Leader Initials									Void:				Detailer: SYS	Sheet Subset: MISC	Subset Sheets: GN-1 of 3
 FELSBURG HOLT & ULLMANN 6300 South Syracuse Way Centennial, CO 80111															

GENERAL NOTES CONTINUED

29. Prior to beginning work on the project, the Contractor's Surveyor shall perform a survey to verify all survey control points, City of Denver range points, section corners, and benchmarks as shown on the survey control diagram. The Contractor shall be responsible for replacing all land survey monuments disrupted by construction activities or by negligence on the part of the Contractor. The Contractor is required to follow Colorado State Law regarding surveying monuments. The Contractor shall retain a Colorado Licensed Professional Land Surveyor to reset any affected survey monuments. This will not be paid for separately, but shall be included in the work unless specified otherwise in Section 629. For further information contact:

Public Works - Survey Department
 Attn: City Surveyor
 201 W. Colfax Ave.
 Denver, CO 80202
 720-865-3121

30. After completion of the paving operations, the Contractor shall upgrade temporary range points with permanent range point monuments at the locations as indicated on the Land Survey Control Diagram. Monuments shall meet current City and County of Denver Standards.

31. A survey shall be deposited with the City and County of Denver per State Statute. City monument records shall be prepared for all range points within the project and deposited with the City Surveyor.

32. Any person who knowingly removes, alters, or defaces any public land survey monument and/or boundary monument or accessory, commits a Class Two (2) Misdemeanor pursuant to State Statute C.R.S. Section 18-4-508.

33. All stations and offsets shown on the plans are to the control lines unless otherwise noted. The use of control monuments for construction staking other than those shown on the plans or approved by the PW Dept. is prohibited, and use of such monuments is at the Contractor's sole risk.

34. Proposed finished ground elevations for items to be adjusted, reset, or modified shall be field verified by the Contractor.

35. Construction vehicles shall access the project from public property, not adjacent private properties.

36. Groundwater and Bedrock elevations shown in profiles and cross sections are approximate and based on the best available information.

37. Groundwater within the project limits has the potential to contain chemical compounds at concentrations greater than that acceptable for direct discharge under standard CDPS permits. The Contractor is advised to limit pumping of groundwater in all project excavations, by careful scheduling, expediting the work and use of conscientious construction methods. The Contractor shall minimize the disturbance of contaminated groundwater by avoidance and limit intrusion of groundwater into excavations.

38. Costs incurred by the Contractor for the removal, sample collection, analytical testing, containerization, transportation, and disposal or treatment of contaminated groundwater will be paid for under Force Account 700-70589 Environmental Health & Safety Management.

39. Removal, sample collection, containerization, transportation, and disposal of contaminated soil will be paid for in accordance with Section 250.

40. Analytical testing of soil will be paid for under Force Account Environmental Health and Safety Management

41. Santa Fe is classified as urban with regard to Revision of Section 105 - Failure to Maintain Roadway or Structure.

42. Trees not designated for removal, shall be protected by Fence (plastic). Location of tree protection shall be directed by the R6 Landscape Architect, Wetlands Biologist & Engineer.

43. After project completion, CDOT will maintain water quality infrastructure and appurtenances installed as part of the project, within the City and County of Denver Right-of-Way.


44. Contractor shall locate and pothole all potential conflicts with existing buried utility facilities with the proposed construction as shown on the plans or by field location markings. If conflict exists, modify proposed construction plans to avoid all existing buried utility facilities.

45. Trees shall not be planted within 10 feet of water and sanitary sewer lines. trees and shrubs shall not be planted within 5 feet of buried electrical cables, gas lines and telephone lines. Trees and shrubs shall not be planted within a 15 foot radius of high mast lighting towers.

46. Shoring shall not obstruct access to existing utility facilities including valve boxes and manholes.

47. The CDOT Contractor must submit a Xcel Energy Builders Call Line Application for any work element that is to be relocated or coordinated with the project.

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Print Date: 11/18/2010		Sheet Revisions Date: 12/03/10 Comments: ADDED NOTES Init.: SYS			Colorado Department of Transportation  2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB		As Constructed No Revisions:		I-25/SANTA FE INTERCHANGE GENERAL NOTES		Project No./Code BR 0252-407	
File Name: 16311DES_PH2_GenNotes2.dgn					Unit Information Unit Leader Initials		Designer: KRK Detailer: SYS		Structure Numbers		17783	
Horiz. Scale: 1:1 Vert. Scale: As Noted		FELSBERG HOLT & ULLÉVIG 6300 South Syracuse Way Centennial, CO 80111		Sheet Subset: MISC Subst Sheets: GN-2 of 3		Sheet Number 6 A						


GENERAL NOTES CONTINUED

It is estimated that the following items will be required on this project.

<u>Item No.</u>	<u>Description</u>	<u>Unit</u>	<u>Total</u>
201-0000	Clearing and Grubbing	LS	1
202-00010	Removal of Tree	Each	103
202-00011	Tree Trimming	Each	20
202-04100	Abandon Well	Each	8
203-01597	Potholing	Hour	200
210-00001	Reset Structure (Well)	Each	1
*214-00222	Deciduous Tree (2 Inch Laliper)(Furnish Only)	Each	128
240-00000	Wildlife Biologist	Hour	80
250-00010	Environmental Health & Safety Management	LS	1
250-00050	Monitoring Technician	Hour	1000
250-00110	Health & Safety Officer	Hour	650
617-03000	Detour Culvert Pipe	LS	1
620-00005	Field Office (Special)	Each	1
620-00012	Field Laboratory (Class 2)	Each	1
620-00020	Sanitary Facility	Each	1
625-00000	Construction Surveying	LS	1
626-00000	Mobilization	LS	1
626-01000	Public Information Services	LS	1
629-01001	Survey Monument (Type 1)	Each	2
629-01003	Survey Monument (Type 3)	Each	2
629-01005	Survey Monument (Type 5)	Each	2
700-70010	F/A Minor Contract Revision	F A	1
700-70011	F/A Partnering	F A	1
700-70013	F/A Concrete Pavement Incentive	F A	1
700-70016	F/A Fuel Cost Adjustment	F A	1
700-70018	F/A Roadway Smoothness Incentive	F A	1
700-70019	F/A Asphalt Cement Cost Adjustment	F A	1
700-70021	F/A On-The-Job Trainee	Hour	10000
700-70022	F/A OJT Colorado Training Program	F A	1
700-70025	F/A Quality Incentive Payment	F A	1
700-70028	F/A ESB Program	F A	1
700-70031	F/A Interim Surface Repair	F A	1
700-70310	F/A Landscaping (Restoration)	F A	1
700-70035	F/A Uniformed Traffic Control (Officer Time)	F A	1
700-70036	F/A Provide Security Guard	F A	1
700-70072	F/A Furnish and Install Electrical Services	F A	1
700-70380	F/A Erosion Control	F A	1
700-70589	F/A Environmental Health & Safety Management	F A	1
700-70081	F/A Provide Dewatering	F A	1
700-70587	F/A Hazardous Waste Disposal	F A	1
700-70014	F/A Early Completion of Work/Incentive	F A	1
700-70034	F/A Obtain Permits	F A	1


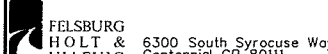
*The Contractor shall coordinate time and location of tree delivery (adjacent to project) with the Greenway Foundation and Selected Nursery. The contract for the Greenway Foundation is to be determined. Notification of delivery schedule, shall also be made to the CDOT Environmental Representative through the CDOT Engineer.

Tree Planting shall be along the South Platte River or City and County of Denver Park, within a 5 mile radius. Contractor shall set up a meeting 30 days prior to planting to start coordination efforts.

Print Date: 1/10/2011	Sheet Revisions			 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	ALAMEDA/I-25 BRIDGE GENERAL NOTES			Project No./Code ES6 C010-101 17170 Sheet Number 6a C
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Horiz. Scale: 1:1 Vert. Scale: As Noted		12/03/10	NEW SHEET-ADD NOTES	SYS	Detailer: SYS	Sheet Subset: MISC	Subset Sheets: GN-3 of 3		
Unit Information Unit Leader Initials		01/03/11	ADDED 214-00222 ITEM	KRK					
 FELSBERG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions		01/10/11	ADDED NOTE,	KRK					
			REVISED ITEM NOS.	KRK					



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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			201-00000	Clearing and Grubbing	L S	0.34		0.66																	1	
			202-00010	Removal of Tree	EACH	52		51																	103	
			202-00011	Tree Trimming	EACH	20																			20	
			202-00019	Removal of Inlet	EACH	38																			38	
			202-00021	Removal of Manhole	EACH	10																			10	
			202-00035	Removal of Pipe	LF	5,645																			5,645	
			202-00037	Removal of End Section	EACH	1																			1	
			202-00090	Removal of Delineator	EACH			50																	50	
			202-00165	Removal of Wall	L S	1																			1	
			202-00190	Removal of Concrete Median Cover Material	SY	535		235																	770	
			202-00195	Removal of Median Cover	SY	2,630																			2,630	
			202-00200	Removal of Sidewalk	SY	55																			55	
			202-00203	Removal of Curb and Gutter	LF	10,134		314																	10,448	
			202-00206	Removal of Concrete Curb Ramp	SY	20																			20	
			202-00210	Removal of Concrete Pavement	SY	100																			100	
			202-00220	Removal of Asphalt Mat	SY	26,023		37,899																	63,922	
			202-00240	Removal of Asphalt Mat (Planing)	SY	1,557		3,114																	4,671	
			202-00250	Removal of Pavement Marking	SF	33,239																			33,239	
			202-00400	Removal of Bridge F-16-XS	EACH											2									2	
			202-00495	Removal of Portions of Present Structure F-16-DS	L S																	1			1	
			202-00750	Removal of Luminaire (BRIDGE)	EACH			2																	2	
			202-00805	Removal of Overhead Sign Structure	EACH	3																			3	
			202-00810	Removal of Ground Sign	EACH	57																			57	
			202-00815	Removal of Sign (Special)	EACH	6																			6	
			202-00821	Removal of Sign Panel	EACH	19																			19	
			202-00825	Removal of Flashing Beacon	EACH	2																			2	
			202-00831	Removal of Traffic Signal Head	EACH	7																			7	
			202-00840	Removal of Traffic Signal Pole	EACH	2																			2	
			202-00895	Removal of Impact Attenuator	EACH	2		2																	4	
			202-00900	Removal of Concrete Footing (Light Standard Foundation)	EACH	60																			60	
			202-01130	Removal of Guardrail Type 3	LF	3,591																			3,591	
			202-01170	Removal of Guardrail Type 7	LF	1,303		3,680																	4,983	

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File Name: 16311DES_PH2_SAQ1.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		Designer: CDDT		Structure		BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS			Revised:		Detailer: CDDT		Numbers		17783	
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS			Void:		Sheet Subset: MISC		Subset Sheets: SAQ-1 of 38		Sheet Number 7 B	
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			202-01300	Removal of End Anchorage	EACH	14																			14	
			202-04001	Plug Culvert	EACH	3																			3	
			202-04100	Abandon Well	EACH	8																			8	
			203-00010	Unclassified Excavation (Complete In Place)	CY	91,848		56,003																	147,851	
			203-00710	Clay Plating (Complete In Place)	CY	1,190																			1,190	
			203-01500	Blading	HOUR	240																			240	
			203-01510	Backhoe	HOUR	240																			240	
			203-01597	Potholing	HOUR	100		100																	200	
			203-01620	Sweeping	HOUR	240																			240	
			206-00000	Structure Excavation	CY	3,564		10,366		4,432				2,686				9,154		5,898		3,908			40,008	
			206-00065	Structure Backfill (Flow-Fill)	CY	22																			22	
			206-00100	Structure Backfill (Class 1)	CY	5,651		34,312		342		641		4,927				37,356		18,635		10,238			112,102	
			206-00200	Structure Backfill (Class 2)	CY	12				2,335															2,347	
			206-00360	Mechanical Reinforcement of Soil	CY	5,135		20,029		342		435		4,251				21,209		10,836		8,313			70,550	
			206-00505	Filter Material (Special) ASTM C33 Sand	CY	712																			712	
			206-00530	Filter Material (Class C)	CY	317																			317	
			206-01781	Shoring (Area 1)	L S	1																			1	
			206-01782	Shoring (Area 2)	L S			1																	1	
			206-01783	Shoring (Area 3)	L S			1																	1	
			206-01784	Shoring (Area 4)	L S	1																			1	
			206-01785	Shoring (Area 5)	L S											1									1	
			206-01786	Shoring (Area 6)	L S					1															1	
			206-01787	Shoring (Area 7)	L S	1																			1	
			208-00002	Erosion Log (12 Inch)	LF	27,150																			27,150	
			208-00020	Silt Fence	LF	8,168																			8,168	
			208-00034	Gravel Bag	LF	1,050																			1,050	
			208-00040	Check Dam	EACH	68																			68	
			208-00045	Concrete Washout Structure	EACH	18																			18	
			208-00050	Storm Drain Inlet Protection	EACH	191																			191	
			208-00070	Vehicle Tracking Pad Stabilized Construction Entrance	EACH	15																			15	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	420																			420	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	360																			360	

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Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS			Revised:		ALTERNATE 1 - BASE BID			17783	
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS			Void:		Designer: CDDT Structure		Sheet Number 8 B		
 6300 South Syracuse Way Centennial, CO 80111							Detailer: CDDT Numbers		Subset Sheets: SAQ-2 of 38				

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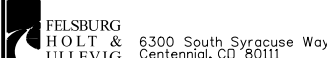
INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS			
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			208-00205	Erosion Control Supervisor	HOUR	600																				600	
			208-00300	Temporary Berms	LF	1,500																				1,500	
			210-00001	Reset Structure (Well)	EACH	1																				1	
			210-00473	Reset TV Cameras	EACH	1																				1	
			210-00810	Reset Ground Sign	EACH	1																				1	
			210-00815	Reset Sign Panel	EACH	1																				1	
			210-00820	Reset Variable Message Sign	EACH	1																				1	
			210-00848	Reset Traffic Signal Controller and Cabinet	EACH	1																				1	
			210-00910	Reset Traffic Counter (Permanent)	EACH	4																				4	
			210-01000	Reset Fence F-16-DS Wall	LF																	542				542	
			210-04010	Adjust Manhole	EACH	6																				6	
			210-04015	Modify Manhole	EACH	1																				1	
			210-04020	Modify Inlet	EACH	2																				2	
			212-00006	Seeding (Native)	ACRE	42																				42	
			212-00048	Soil Preparation (Special)	CY	7																				7	
			213-00004	Mulching (Weed Free Straw)	ACRE	42																				42	
			213-00008	Mulching (Wood Chip)	CF	6																				6	
			213-00061	Mulch Tackifier	LB	8,400																				8,400	
			213-00100	Soil Binder	ACRE	29																				29	
			214-00000	Landscape Maintenance	L S	1																				1	
			214-00022	Deciduous Tree (2 Inch Caliper)(Furnish Only)	EACH	128																				128	
			214-00230	Deciduous Tree (3 Inch Caliper)	EACH	16																				16	
			214-00506	Evergreen Tree (6 Foot) (Ball and Burlap)	EACH	17																				17	
			216-00030	Soil Retention Blanket (Special)	SY	9,525																				9,525	
			216-00041	Soil Retention Blanket (Straw/Coconut)	SY	19,605																				19,605	
			217-00020	Herbicide Treatment	HOUR	120																				120	
			240-00000	Wildlife Biologist	HOUR	80																				80	
			250-00010	Environmental Health and Safety Management	L S	1																				1	
			250-00050	Monitoring Technician	HOUR	1,000																				1,000	
			250-00110	Health and Safety Officer	HOUR	650																				650	
			304-06000	Aggregate Base Course (Class 6)	TON	25,276		18,060																		43,336	
			304-06007	Aggregate Base Course (Class 6)	CY	1,736		4,461				333		858				3,816		2,289		1,871				15,364	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	2,675																				2,675	
			403-09221	Stone Matrix Asphalt (Fibers)(Asphalt)	TON					1,164						1,526										2,690	





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File Name: 16311DES_PH2_SQA3.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB			No Revisions:		Designer: CDDT		Structure Numbers		BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS				Revised:		Detailer: CDDT		17783			
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS				Void:		Sheet Subset: MISC		Subset Sheets: SAQ-3 of 38		Sheet Number 9 B	

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 1/10/2011

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	8,545		1,535																	10,080	
			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	3,062		685																	3,747	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	5,809		930																	6,739	
			412-00800	Concrete Pavement (8 Inch)	SY	100																			100	
			412-01300	Concrete Pavement (13 Inch)	SY	2,365		40,095																	42,460	
			503-00024	Drilled Caisson (24 Inch)	LF	7				108						346									461	
			503-00030	Drilled Caisson (30 Inch)	LF	72																			72	
			503-00036	Drilled Caisson (36 Inch)	LF					183						88									271	
			503-00042	Drilled Caisson (42 Inch)	LF											894									894	
			503-00048	Drilled Caisson (48 Inch)	LF	29				582						704									1,315	
			503-00054	Drilled Caisson (54 Inch)	LF	200																			200	
			503-00072	Drilled Caisson (72 Inch)	LF					71															71	
			504-04420	Precast Panel Facing	SF	1,631		2,798				954		6,681				26,825		13,581			19,489		71,959	
			506-00010	Riprap (Special)	CY	205																			205	
			506-00030	Grouted Riprap	CY	317																			317	
			507-00000	Concrete Slope and Ditch Paving	CY	31		17																	48	
			509-08100	Provide Temporary Support (F-16-DT)	L S														1						1	
			509-08100	Provide Temporary Support (F-16-XR)	L S					1															1	
			509-08100	Provide Temporary Support (F-16-XS)	L S											1									1	
			512-00101	Bearing Device (Type I) (F-16-DW)	EACH											1									1	
			512-00103	Bearing Device (Type III)	EACH					12															12	
			513-00600	Bridge Drain	EACH					10															10	
			515-00120	Waterproofing (Membrane)	SY					7,181						9,419									16,600	
			518-01004	Bridge Expansion Device (0-4 Inch)	LF					72						353									425	
			518-01012	Bridge Expansion Device (0-12 Inch)	LF					72															72	
			601-03000	Concrete Class D	CY	290																			290	
			601-03040	Concrete Class D (Bridge)	CY					3,031						3,839									6,870	
			601-03050	Concrete Class D (Wall)	CY							57		106		126		389		213			391		1,282	
			601-05050	Concrete Class S50	CY					150						178									328	
			601-40302	Structural Concrete Coating (Anti-Graffiti)	SF					46,511		2,070		8,985		58,775		32,535		18,078			27,266		194,220	
			601-40400	Structural Concrete Stain	SY					16,225		230		999		6,531		3,615		2,009			3,030		32,639	
			602-00000	Reinforcing Steel	LB	29,530				37,770															67,300	
			602-00020	Reinforcing Steel (Epoxy Coated)	LB	170				785,260		8,335		16,070		1,408,469		59,635		32,820			60,525		2,371,284	

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Sheet Revisions			
	Date:	Comments	Init.
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	01/10/11	CORRECTED VALUE	KRK
			

Colorado Department of Transportation


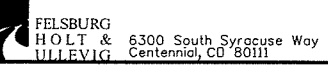
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

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ALTERNATE 1 - BASE BID
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 17783
 Sheet Number **10 C**


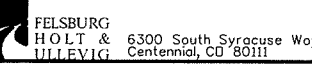
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			603-01185	18 Inch Reinforced Concrete Pipe (CIP)	LF	2,399																			2,399	
			603-01245	24 Inch Reinforced Concrete Pipe (CIP)	LF	1,656																			1,656	
			603-01305	30 Inch Reinforced Concrete Pipe (CIP)	LF	635																			635	
			603-01485	48 Inch Reinforced Concrete Pipe (CIP)	LF	342																			342	
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	324																			324	
			603-02305	38x24 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	230																			230	
			603-02665	83x53 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	529																			529	
			603-05018	18 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05024	24 Inch Reinforced Concrete End Section	EACH	1																			1	
			603-05030	30 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05124	30x19 Inch Reinforced Concrete End Section Elliptical	EACH	1																			1	
			603-50004	4 Inch Plastic Pipe Perforated	LF	751																			751	
			603-50015	15 Inch Plastic Pipe	LF	637				163															800	
			604-00305	Inlet Type C (5 Foot)	EACH	4																			4	
			604-00310	Inlet Type C (10 Foot)	EACH	1																			1	
			604-00505	Inlet Type D (5 Foot)	EACH	1																			1	
			604-16005	Inlet Type 16 (5 Foot)	EACH	1																			1	
			604-19000	Inlet Special	EACH	1																			1	
			604-20000	Outlet Structure	EACH	1																			1	
			604-25011	Vane Grate Inlet Special (10 Foot)	EACH	1																			1	
			604-26005	Vane Grate Inlet (Double) (5 Foot)	EACH	10																			10	
			604-26010	Vane Grate Inlet (Double) (10 Foot)	EACH	13																			13	
			604-26015	Vane Grate Inlet (Double) (15 Foot)	EACH	1																			1	
			604-30005	Manhole Slab Base (5 Foot)	EACH	2																			2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	4																			4	
			604-30020	Manhole Slab Base (20 Foot)	EACH	1																			1	
			604-39005	Manhole Special (5 Foot)	EACH	3																			3	
			604-39010	Manhole Special (10 Foot)	EACH	2																			2	
			604-39015	Manhole Special (15 Foot)	EACH	1																			1	
			604-39020	Manhole Special (20 Foot)	EACH	4																			4	
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	1,010			300																1,310	

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File Name: 16311DES_PH2_SAQ5.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		S.A.Q.			BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS			Revised:		ALTERNATE 1 - BASE BID			17783	
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS			Void:		Designer: CDDT Structure		17783		
 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB		Detailer: CDDT Numbers		Sheet Subset: MISC Subset Sheets: SAQ-5 of 38		Sheet Number 11 B		


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			606-00705	Guardrail Type 7 (Special)	LF	7,400		1,309																	8,709	
			606-00710	Guardrail Type 7 (Style CA)	LF	1,140		1,020																	2,160	
			606-00725	Guardrail Type 7 (Style CC)(Concrete Glare Screen)	LF			555																	555	
			606-00730	Guardrail Type 7 (Style CD)	LF																891				891	
			606-00740	Guardrail Type 7 (Style CE)	LF	80		444																	524	
			606-00745	Guardrail Type 7 (Style CE)(Concrete Glare Screen)	LF			1,774																	1,774	
			606-01340	End Anchorage Type 3D	EACH	3		1																	4	
			606-01370	Transition Type 3G	EACH	1																			1	
			606-01380	Transition Type 3H	EACH	2		1																	3	
			606-02003	End Anchorage (Nonflared)	EACH	2																			2	
			606-10700	Bridge Rail Type 7	LF					3,594		164		324		1,812		1,181		641		1,151			8,867	
			606-10705	Bridge Rail Type 7 (Special)	LF										604										604	
			607-53137	Fence Chain Link (Special) (36 Inch)	LF					3,496					1,055						508				5,059	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	217																			217	
			609-24006	Gutter Type 2 (6 Foot)	LF	128																			128	
			612-00001	Delineator (Type I)	EACH	76																			76	
			612-00002	Delineator (Type II)	EACH	14																			14	
			612-00003	Delineator (Type III)	EACH	4																			4	
			612-00021	Delineator (Type I) (Barrier)	EACH	206																			206	
			612-00022	Delineator (Type II) (Barrier)	EACH	31																			31	
			613-00100	1 Inch Electrical Conduit	LF					213					739										952	
			613-00200	2 Inch Electrical Conduit	LF	6,900				9,177				678		2,416		2,391		1,342		2,311			25,215	
			613-00300	3 Inch Electrical Conduit	LF	2,350																			2,350	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	3,590																			3,590	
			613-01300	3 Inch Electrical Conduit (Plastic)	LF	3,290																			3,290	
			613-07000	Pull Box (Special)	EACH	3																			3	
			613-07023	Pull Box (24"x36"x24")	EACH	4																			4	
			613-07026	Pull Box (16"x24"x12")	EACH	13																			13	
			613-07039	Pull Box (30"x48"x18")	EACH	7																			7	
			613-10000	Wiring	L S	1																			1	
			613-32300	Light Standard Steel (30 Foot)	EACH	1																			1	
			613-32400	Light Standard Steel (40 Foot)	EACH	52																			52	
			613-34700	Light Standard Metal (70 Foot) (65 FT)	EACH	6																			6	

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File Name: 16311DES_PH2_SAQ6.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		S.A.Q.			BR 0252-407			
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS					ALTERNATE 1 - BASE BID						
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			613-40010	Light Standard Foundation (Temp Reset)	EACH	48																			48	
			613-50100	Lighting Control Center	EACH	1																			1	
			613-70250	Luminaire High Pressure Sodium (250 Watt)	EACH	52																			52	
			613-71000	Luminaire High Pressure Sodium (1000 Watt)	EACH	16																			16	
			613-72150	Luminaire High Pressure Sodium (Wall Type) (150 Watt)	EACH	15																			15	
			614-00011	Sign Panel (Class I)	SF	283																			283	
			614-00012	Sign Panel (Class II)	SF	845																			845	
			614-00013	Sign Panel (Class III)	SF	3,468																			3,468	
			614-00040	Sign Post (Special)	LF	19																			19	
			614-00216	Steel Sign Post (2x2 Inch Tubing)	LF	492																			492	
			614-00818	Steel Sign Post (W 8x18)	LF	35																			35	
			614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post & Slipbase)	EACH	36																			36	
			614-03003	Concrete Footing (Type 3)	EACH	2																			2	
			614-32400	Monotube Overhead Sign Cantilever (24 Inch Diameter)	EACH	1																			1	
			614-42000	Monotube Overhead Sign Bridge (20 Inch Diameter)	EACH	3																			3	
			614-42400	Monotube Overhead Sign Bridge (24 Inch Diameter)	EACH	1																			1	
			614-70336	Traffic Signal Face (12-12-12)	EACH	21																			21	
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	1																			1	
			614-72830	Communications Cabinet	EACH	1																			1	
			614-72855	Traffic Signal Controller Cabinet	EACH	2																			2	
			614-72875	Loop Detector Wire	LF	1,460																			1,460	
			614-80000	Flashing Beacon	EACH	4																			4	
			614-85001	Impact Attenuator	EACH	1		2																	3	
			614-85312	Traffic Signal Span Wire Pole (12 Inch)	EACH	2																			2	
			614-85362	Traffic Signal-Light Span Wire Pole (12 Inch)	EACH	3																			3	
			614-85366	Traffic Signal-Light Span Wire Pole (16 Inch)	EACH	2																			2	
			614-86238	Traffic Signal Controller (Solid State) (Full-Actuated) (8 Phase)	EACH	2																			2	
			614-86800	Uninterrupted Power Supply	EACH	2																			2	
			614-87333	Closed Circuit Television Camera (Traffic Surveillance)	EACH	1																			1	
			614-87412	Fiber Optic Cable (Single Mode) (12 Strands) (Install Only)	LF	475																			475	

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			614-87496	Fiber Optic Cable (Single Made) (96 Strands)	LF	2,100																			2,100	
			615-10048	48 Inch Automatic Drain Gate	Each	1																			1	
			618-00002	Prestressing Steel Strand	MKFT					16,666						20,777									37,443	
			618-00005	Prestressing Steel Bar	MKFT					16,349															16,349	
			618-06032	Prestressed Concrete Slab (Depth Less Than 6 Inches)	SF					43,833															43,833	
			618-10200	Precast Concrete U Girder (Pre-Tensioned and Post-Tensioned)	LF											4,244									4,244	
			618-10372	Precast Concrete U Girder (U72)(Curved) And Post-Tensioned	LF					3,439															3,439	
			620-00005	Field Office (Special)	EACH	0.34		0.66																	1	
			620-00012	Field Laboratory (Class 2)	EACH	0.34		0.66																	1	
			620-00020	Sanitary Facility	EACH	1																			1	
			621-00430	Detour	SY	7,194		14,387																	21,581	
			621-00500	Temporary Bridge	L S											1									1	
			624-20301	Detour Drainage Pipe (Class 0)	L S	1																			1	
			625-00000	Construction Surveying	L S	0.34		0.66																	1	
			626-00000	Mobilization	L S	0.34		0.66																	1	
			626-01000	Public Information Services	L S	1																			1	
			627-00001	Pavement Marking Paint	GAL	378		756																	1134	
			627-00005	Epoxy Pavement Marking	GAL	212																			212	
			627-01010	Prefomed Plastic Pavement Marking (Type I)(Inlaid)	SF	11,087																			11,087	
			627-30327	Prefomed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	570																			570	
			627-30332	Prefomed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	501																			501	
			629-01001	Survey Monument (Type 1)	EACH	2																			2	
			629-01003	Survey Monument (Type 3)	EACH	2																			2	
			629-01005	Survey Monument (Type 5)	EACH	2																			2	
			630-00000	Flagging	HOUR	2,500		5,000																	7,500	
			630-00003	Uniformed Traffic Control	HOUR	1,540		3,080																	4,620	
			630-00004	Traffic Control Vehicle	EACH	1		1																	2	
			630-00007	Traffic Control Inspection	DAY	153		307																	460	
			630-00012	Traffic Control Management	DAY	334		666																	1,000	
			630-80001	Flashing Beacon (Portable)	EACH	3		5																	8	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	2		5																	7	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	37		74																	111	

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Unit Information Unit Leader Initials
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ULLEVIG 6300 South Syracuse Way
Centennial, CO 80111

Sheet Revisions			
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12/03/10	REVISED SHEET	SYS	
01/03/11	REVISED SHEET	SYS	

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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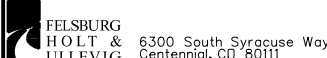
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S.A.Q.
ALTERNATE 1 - BASE BID
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Detailer: CDDT Numbers
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
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	16		31																	47	
			630-80343	Construction Traffic Sign (Panel Size C)	EACH	9		17																	26	
			630-80344	Construction Traffic Sign (Special)	SF	134		268																	402	
			630-80355	Portable Message Sign Panel	EACH	2		4																	6	
			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	1		2																	3	
			630-80360	Drum Channelizing Device	EACH	92		183																	275	
			630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	10		20																	30	
			630-80370	Concrete Barrier (Temporary)	LF	5,534		11,066							40										16,640	
			630-80378	Glare Screen (Temporary)	LF	1,134		2,266																	3,400	
			630-80380	Traffic Cone	EACH	167		333																	500	
			630-80384	Tubular Marker	EACH	7		13																	20	
			630-85010	Impact Attenuator (Temporary)	EACH	12		18																	30	
			630-85040	Impact Attenuator (Truck Mounted Attenuator) (Temporary)	EACH	1		1																	2	
			630-86800	Traffic Signal (Temporary) FORCE ACCOUNT =====	L S	1																			1	
			700-70010	F/A Minor Contract Revisions	F A	0.34		0.66																	1	
			700-70011	F/A Partnering	F A	0.34		0.66																	1	
			700-70013	F/A Concrete Pavement Incentive	F A			1																	1	
			700-70016	F/A Fuel Cost Adjustment	F A	0.34		0.66																	1	
			700-70018	F/A Roadway Smoothness Incentive	F A			1																	1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A			1																	1	
			700-70021	F/A On-The-Job Trainee	HOUR	6,500																			6,500	
			700-70022	F/A OJT Colorado Training Program	F A	0.34		0.66																	1	
			700-70025	F/A Quality Incentive Payment	F A			1																	1	
			700-70028	F/A ESB Program	F A	0.34		0.66																	1	
			700-70031	F/A INTERIM SURFACE REPAIR	F A	0.34		0.66																	1	
			700-70310	F/A Landscaping (Restoration)	F A	1																			1	
			700-70035	F/A UTC Officer Time	F A	1																			1	
			700-70036	Forced Accounts Provide Security Guard	F A	1																			1	
			700-70072	F/A Obtain Power from Xcel Energy Furnish and Install Electrical Services	F A	1																			1	
			700-70081	F/A Provide Dewatering	F A	1																			1	
			700-70380	F/A Erosion Control	F A	1																			1	

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	01/10/11	CORRECTED TRF CONES,	KRK
		LANDSCAPE F/A	KRK

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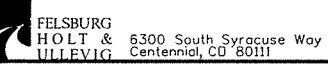

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 Denver, CO 80222
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Region 6 **RLB**

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I-25/SANTA FE INTERCHANGE
S.A.Q.
ALTERNATE 1 - BASE BID
 Designer: CDOT Structure Numbers
 Detailer: CDOT
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Project No./Code
 BR 0252-407
 17783
 Sheet Number **15 C**

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-OS WALL		PROJECT TOTALS		
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			201-00000	Clearing and Grubbing	L S	0.34		0.66																	1	
			202-00010	Removal of Tree	EACH	52		51																	103	
			202-00011	Tree Trimming	EACH	20																			20	
			202-00019	Removal of Inlet	EACH	38																			38	
			202-00021	Removal of Manhole	EACH	10																			10	
			202-00035	Removal of Pipe	LF	5,645																			5,645	
			202-00037	Removal of End Section	EACH	1																			1	
			202-00090	Removal of Delineator	EACH			50																	50	
			202-00165	Removal of Wall	L S	1																			1	
			202-00190	Removal of Concrete Median Cover Material	SY	535		235																	770	
			202-00195	Removal of Median Cover	SY	2,630																			2,630	
			202-00200	Removal of Sidewalk	SY	55																			55	
			202-00203	Removal of Curb and Gutter	LF	10,134		314																	10,448	
			202-00206	Removal of Concrete Curb Ramp	SY	20																			20	
			202-00210	Removal of Concrete Pavement	SY	100																			100	
			202-00220	Removal of Asphalt Mat	SY	26,023		37,899																	63,922	
			202-00240	Removal of Asphalt Mat (Planing)	SY	1,557		3,114																	4,671	
			202-00250	Removal of Pavement Marking	SF	33,239																			33,239	
			202-00400	Removal of Bridge F-16-XS	EACH										2										2	
			202-00495	Removal of Portions of Present Structure F-16-DS	L S																1				1	
			202-00750	Removal of Luminaire (BRIDGE)	EACH			2																	2	
			202-00805	Removal of Overhead Sign Structure	EACH	3																			3	
			202-00810	Removal of Ground Sign	EACH	57																			57	
			202-00815	Removal of Sign (Special)	EACH	6																			6	
			202-00821	Removal of Sign Panel	EACH	19																			19	
			202-00825	Removal of Flashing Beacon	EACH	2																			2	
			202-00831	Removal of Traffic Signal Head	EACH	7																			7	
			202-00840	Removal of Traffic Signal Pole	EACH	2																			2	
			202-00895	Removal of Impact Attenuator	EACH	2		2																	4	
			202-00900	Removal of Concrete Footing (Light Standard Foundation)	EACH	60																			60	
			202-01130	Removal of Guardrail Type 3	LF	3,591																			3,591	
			202-01170	Removal of Guardrail Type 7	LF	1,303		3,680																	4,983	

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 6300 South Syracuse Way Centennial, CO 80111								Sheet Subset: MISC		Subset Sheets: SAQ-11 of 38					

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			202-01300	Removal of End Anchorage	EACH	14																			14	
			202-04001	Plug Culvert	EACH	3																			3	
			202-04100	Abandon Well	EACH	8																			8	
			203-00010	Unclassified Excavation (Complete In Place)	CY	91,848		56,003																	147,851	
			203-00710	Clay Plating (Complete In Place)	CY	1,190																			1,190	
			203-01500	Blading	HOUR	240																			240	
			203-01510	Backhoe	HOUR	240																			240	
			203-01597	Potholing	HOUR	100		100																	200	
			203-01620	Sweeping	HOUR	240																			240	
			206-00000	Structure Excavation	CY	3,564		10,366					2,686				9,154		5,898		3,908				35,576	
			206-00065	Structure Backfill (Flow-Fill)	CY	22																			22	
			206-00100	Structure Backfill (Class 1)	CY	5,651		34,312				641		4,927			37,356		18,635		10,238				111,760	
			206-00200	Structure Backfill (Class 2)	CY	12																			12	
			206-00360	Mechanical Reinforcement of Soil	CY	5,135		20,029				435		4,251			21,209		10,836		8,313				70,208	
			206-00505	Filter Material (Special) ASTM C33 Sand	CY	712																			712	
			206-00530	Filter Material (Class C)	CY	317																			317	
			206-01781	Shoring (Area 1)	L S	1																			1	
			206-01782	Shoring (Area 2)	L S			1																	1	
			206-01783	Shoring (Area 3)	L S			1																	1	
			206-01784	Shoring (Area 4)	L S	1																			1	
			206-01785	Shoring (Area 5)	L S											1									1	
			206-01787	Shoring (Area 7)	L S	1																			1	
			208-00002	Erosion Log (12 Inch)	LF	27,150																			27,150	
			208-00020	Silt Fence	LF	8,168																			8,168	
			208-00034	Gravel Bag	LF	1,050																			1,050	
			208-00040	Check Dam	EACH	68																			68	
			208-00045	Concrete Washout Structure	EACH	18																			18	
			208-00050	Storm Drain Inlet Protection	EACH	191																			191	
			208-00070	Vehicle Tracking Pad Stabilized Construction Entrance	EACH	15																			15	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	420																			420	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	360																			360	
			208-00205	Erosion Control Supervisor	HOUR	600																			600	


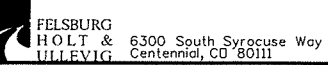
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			208-00300	Temporary Berms	LF	1,500																			1,500	
			210-00001	Reset Structure (Well)	EACH	1																			1	
			210-00473	Reset TV Cameras	EACH	1																			1	
			210-00810	Reset Ground Sign	EACH	1																			1	
			210-00815	Reset Sign Panel	EACH	1																			1	
			210-00820	Reset Variable Message Sign	EACH	1																			1	
			210-00848	Reset Traffic Signal Controller and Cabinet	EACH	1																			1	
			210-00910	Reset Traffic Counter (Permanent)	EACH	4																			4	
			210-01000	Reset Fence F-16-DS Wall	LF																	542			542	
			210-04010	Adjust Manhole	EACH	6																			6	
			210-04015	Modify Manhole	EACH	1																			1	
			210-04020	Modify Inlet	EACH	2																			2	
			212-00006	Seeding (Native)	ACRE	42																			42	
			212-00048	Soil Preparation (Special)	CY	7																			7	
			213-00004	Mulching (Weed Free Straw)	ACRE	42																			42	
			213-00008	Mulching (Wood Chip)	CF	6																			6	
			213-00061	Mulch Tackifier	LB	8,400																			8,400	
			213-00100	Soil Binder	ACRE	29																			29	
			214-00000	Landscape Maintenance	L S	1																			1	
			214-00022	Deciduous Tree (2 Inch Caliper)(Furnish Only)	EACH	128																			128	
			214-00230	Deciduous Tree (3 Inch Caliper)	EACH	16																			16	
			214-00506	Evergreen Tree (6 Foot) (Ball and Burlap)	EACH	17																			17	
			216-00030	Soil Retention Blanket (Special)	SY	9,525																			9,525	
			216-00041	Soil Retention Blanket (Straw/Coconut)	SY	19,605																			19,605	
			217-00020	Herbicide Treatment	HOUR	120																			120	
			240-00000	Wildlife Biologist	HOUR	80																			80	
			250-00010	Environmental Health and Safety Management	L S	1																			1	
			250-00050	Monitoring Technician	HOUR	1,000																			1,000	
			250-00110	Health and Safety Officer	HOUR	650																			650	
			304-06000	Aggregate Base Course (Class 6)	TON	25,276		18,060																	43,336	
			304-06007	Aggregate Base Course (Class 6)	CY	1,736		4,461			333		858				3,816		2,289			1,871			15,364	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	2,675																			2,675	
			403-09221	Stone Matrix Asphalt (Fibers)(Asphalt)	TON										1,526										1,526	
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	8,545		1,535																	10,080	

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			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	3,062		685																	3,747		
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	5,809		930																		6,739	
			412-00800	Concrete Pavement (8 Inch)	SY	100																				100	
			412-01300	Concrete Pavement (13 Inch)	SY	2,365		40,095																		42,460	
			503-00024	Drilled Caisson (24 Inch)	LF	7									346											353	
			503-00030	Drilled Caisson (30 Inch)	LF	72																				72	
			503-00036	Drilled Caisson (36 Inch)	LF										88											88	
			503-00042	Drilled Caisson (42 Inch)	LF										894											894	
			503-00048	Drilled Caisson (48 Inch)	LF	29									704											733	
			503-00054	Drilled Caisson (54 Inch)	LF	200																				200	
			504-04420	Precast Panel Facing	SF	1,631		2,798				954		6,681					26,825		13,581		19,489			71,959	
			506-00010	Riprap (Special)	CY	205																				205	
			506-00030	Grouted Riprap	CY	317																				317	
			507-00000	Concrete Slope and Ditch Paving	CY	31		17																		48	
			509-08100	Provide Temporary Support (F-16-DT)	L S														1							1	
			509-08100	Provide Temporary Support (F-16-XS)	L S										1											1	
			512-00101	Bearing Device (Type I) (F-16-DW)	EACH										1											1	
			515-00120	Waterproofing (Membrane)	SY										9,419											9,419	
			518-01004	Bridge Expansion Device (0-4 Inch)	LF										353											353	
			601-03000	Concrete Class D	CY	290																				290	
			601-03040	Concrete Class D (Bridge)	CY										3,839											3,839	
			601-03050	Concrete Class D (Wall)	CY					57		106		126		389		213		391						1,282	
			601-05050	Concrete Class S50	CY									178												178	
			601-40302	Structural Concrete Coating (Anti-Graffiti)	SF							2,070		8,985		58,775		32,535		18,078		27,266				147,709	
			601-40400	Structural Concrete Stain	SY							230		999		6,531		3,615		2,009		3,030				16,414	
			602-00000	Reinforcing Steel	LB	29,530																				29,530	
			602-00020	Reinforcing Steel (Epoxy Coated)	LB	170						8,335		16,070		1,408,469		59,635		32,820		60,525				1,586,024	
			603-01185	18 Inch Reinforced Concrete Pipe (CIP)	LF	2,399																				2,399	
			603-01245	24 Inch Reinforced Concrete Pipe (CIP)	LF	1,656																				1,656	
			603-01305	30 Inch Reinforced Concrete Pipe (CIP)	LF	635																				635	
			603-01485	48 Inch Reinforced Concrete Pipe (CIP)	LF	342																				342	
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	324																				324	
			603-02305	38x24 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	230																				230	

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6300 South Syracuse Way
Centennial, CO 80111

Sheet Revisions		
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Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

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I-25/SANTA FE INTERCHANGE
S.A.Q.
ALTERNATE 2 - RAMP 1 ALT DESIGN
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17783
Sheet Number 20 B

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				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
	603-02665	83x53 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	529																			529	
	603-05018	18 Inch Reinforced Concrete End Section	EACH	3																			3	
	603-05024	24 Inch Reinforced Concrete End Section	EACH	1																			1	
	603-05030	30 Inch Reinforced Concrete End Section	EACH	3																			3	
	603-05124	30x19 Inch Reinforced Concrete End Section Elliptical	EACH	1																			1	
	603-50004	4 Inch Plastic Pipe Perforated	LF	751																			751	
	603-50015	15 Inch Plastic Pipe	LF	637																			637	
	604-00305	Inlet Type C (5 Foot)	EACH	4																			4	
	604-00310	Inlet Type C (10 Foot)	EACH	1																			1	
	604-00505	Inlet Type D (5 Foot)	EACH	1																			1	
	604-16005	Inlet Type 16 (5 Foot)	EACH	1																			1	
	604-19000	Inlet Special	EACH	1																			1	
	604-20000	Outlet Structure	EACH	1																			1	
	604-25011	Vane Grate Inlet Special (10 Foot)	EACH	1																			1	
	604-26005	Vane Grate Inlet (Dauble) (5 Foot)	EACH	10																			10	
	604-26010	Vane Grate Inlet (Double) (10 Foot)	EACH	13																			13	
	604-26015	Vane Grate Inlet (Dauble) (15 Foot)	EACH	1																			1	
	604-30005	Manhole Slab Base (5 Foot)	EACH	2																			2	
	604-30010	Manhole Slab Base (10 Foot)	EACH	4																			4	
	604-30020	Manhole Slab Base (20 Foot)	EACH	1																			1	
	604-39005	Manhole Special (5 Foot)	EACH	3																			3	
	604-39010	Manhole Special (10 Foot)	EACH	2																			2	
	604-39015	Manhole Special (15 Foot)	EACH	1																			1	
	604-39020	Manhole Special (20 Foot)	EACH	4																			4	
	606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	1,010		300																	1,310	
	606-00705	Guardrail Type 7 (Special)	LF	7,400		1,309																	8,709	
	606-00710	Guardrail Type 7 (Style CA)	LF	1,140		1,020																	2,160	
	606-00725	Guardrail Type 7 (Style CC)(Concrete Glare Screen)	LF			555																	555	
	606-00730	Guardrail Type 7 (Style CD)	LF																		891		891	
	606-00740	Guardrail Type 7 (Style CE)	LF	80		444																	524	
	606-00745	Guardrail Type 7 (Style CE)(Concrete Glare Screen)	LF			1,774																	1,774	

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S.A.Q.
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BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
			606-01340	End Anchorage Type 3D	EACH	3		1																	4		
			606-01370	Transition Type 3G	EACH	1																			1		
			606-01380	Transition Type 3H	EACH	2		1																	3		
			606-02003	End Anchorage (Nonflooded)	EACH	2																			2		
			606-10700	Bridge Rail Type 7	LF						164		324		1,812		1,181		641		1,151				5,273		
			606-10705	Bridge Rail Type 7 (Special)	LF										604										604		
			607-53137	Fence Chain Link (Special) (36 Inch)	LF										1,055						508				1,563		
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	217																			217		
			609-24006	Gutter Type 2 (6 Foot)	LF	128																			128		
			612-00001	Delineator (Type I)	EACH	76																			76		
			612-00002	Delineator (Type II)	EACH	14																			14		
			612-00003	Delineator (Type III)	EACH	4																			4		
			612-00021	Delineator (Type I) (Barrier)	EACH	206																			206		
			612-00022	Delineator (Type II) (Barrier)	EACH	31																			31		
			613-00100	1 Inch Electrical Conduit	LF										739										739		
			613-00200	2 Inch Electrical Conduit	LF	6,900								678		2,416		2,391		1,342		2,311				16,038	
			613-00300	3 Inch Electrical Conduit	LF	2,350																				2,350	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	3,590																				3,590	
			613-01300	3 Inch Electrical Conduit (Plastic)	LF	3,290																				3,290	
			613-07000	Pull Box (Special)	EACH	3																				3	
			613-07023	Pull Box (24"x36"x24")	EACH	4																				4	
			613-07026	Pull Box (16"x24"x12")	EACH	13																				13	
			613-07039	Pull Box (30"x48"x18")	EACH	7																				7	
			613-10000	Wiring	L S	1																				1	
			613-32300	Light Standard Steel (30 Foot)	EACH	1																				1	
			613-32400	Light Standard Steel (40 Foot)	EACH	52																				52	
			613-34700	Light Standard Metal (70 Foot) (65 FT)	EACH	6																				6	
			613-40010	Light Standard Foundation (Temp Reset)	EACH	52																				52	
			613-50100	Lighting Control Center	EACH	1																				1	
			613-70250	Luminaire High Pressure Sodium (250 Watt)	EACH	52																				52	
			613-71000	Luminaire High Pressure Sodium (1000 Watt)	EACH	16																				16	
			613-72150	Luminaire High Pressure Sodium (Woll Type) (150 Watt)	EACH	15																				15	

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File Name: 16311DES_PH2_SAQ16.dgn		Date:	Comments	Init.	2000 South Holly Street		No Revisions:		S.A.Q.			BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS	Denver, CO 80222		Revised:		ALTERNATE 2 - RAMP 1 ALT DESIGN			17783	
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS	Phone: 303-972-9112 FAX: 303-972-9114		Void:		Designer: CDOT Structure		Sheet Number		22 B
FELSBERG HOLT & WILLEY 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB				Detailer: CDOT Numbers		Sheet Subset: MISC		Subset Sheets: SAQ-16of 38

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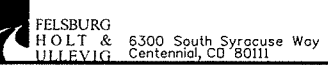
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			614-00011	Sign Panel (Class I)	SF	283																			283	
			614-00012	Sign Panel (Class II)	SF	845																			845	
			614-00013	Sign Panel (Class III)	SF	3,468																			3,468	
			614-00040	Sign Post (Special)	LF	19																			19	
			614-00216	Steel Sign Post (2x2 Inch Tubing)	LF	492																			492	
			614-00818	Steel Sign Post (W 8x18)	LF	35																			35	
			614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post & Slipbase)	EACH	36																			36	
			614-03003	Concrete Footing (Type 3)	EACH	2																			2	
			614-32400	Monotube Overhead Sign Cantilever (24 Inch Diameter)	EACH	1																			1	
			614-42000	Monotube Overhead Sign Bridge (20 Inch Diameter)	EACH	3																			3	
			614-42400	Monotube Overhead Sign Bridge (24 Inch Diameter)	EACH	1																			1	
			614-70336	Traffic Signal Face (12-12-12)	EACH	21																			21	
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	1																			1	
			614-72830	Communications Cabinet	EACH	1																			1	
			614-72855	Traffic Signal Controller Cabinet	EACH	2																			2	
			614-72875	Loop Detector Wire	LF	1,460																			1,460	
			614-80000	Flashing Beacon	EACH	4																			4	
			614-85001	Impact Attenuator	EACH	1		2																	3	
			614-85312	Traffic Signal Span Wire Pole (12 Inch)	EACH	2																			2	
			614-85362	Traffic Signal-Light Span Wire Pole (12 Inch)	EACH	3																			3	
			614-85366	Traffic Signal-Light Span Wire Pole (16 Inch)	EACH	2																			2	
			614-86238	Traffic Signal Controller (Solid State) (Full-Actuated) (8 Phase)	EACH	2																			2	
			614-86800	Uninterrupted Power Supply	EACH	2																			2	
			614-87333	Closed Circuit Television Camera (Traffic Surveillance)	EACH	1																			1	
			614-87412	Fiber Optic Cable (Single Mode) (12 Strands) (Install Only)	LF	475																			475	
			614-87496	Fiber Optic Cable (Single Mode) (96 Strands)	LF	2,100																			2,100	
			615-10048	48 Inch Automatic Drain Gate	EACH	1																			1	
			618-00002	Prestressing Steel Strand	MKFT											20,777									20,777	
			618-10200	Precast Concrete U Girder (Pre-Tensioned and Post-Tensioned)	LF											4,244									4,244	
			620-00005	Field Office (Special)	EACH	0.34		0.66																	1	
			620-00012	Field Laboratory (Class 2)	EACH	0.34		0.66																	1	

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File Name: 16311DES_PH2_SAQ17.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6			No Revisions:		Designer: CDOT		Structure		BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS				Revised:		Detailer: CDOT		Numbers		17783	
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			620-00020	Sanitary Facility	EACH	1																			1		
			621-00430	Detour	SY	7,194		14,387																	21,581		
			621-00500	Temporary Bridge	L S											1									1		
			624-20301	Detour Drainage Pipe (Class 0)	L S	1																			1		
			625-00000	Construction Surveying	L S	0.34		0.66																	1		
			626-00000	Mobilization	L S	0.34		0.66																		1	
			626-01000	Public Information Services	L S	1																			1		
			627-00001	Pavement Marking Paint	GAL	378		756																	1,134		
			627-00005	Epoxy Pavement Marking	GAL	212																			212		
			627-01010	Preformed Plastic Pavement Marking (Type I)(Inlaid)	SF	11,087																			11,087		
			627-30327	Preformed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	570																			570		
			627-30332	Preformed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	501																			501		
			629-01001	Survey Monument (Type 1)	EACH	2																			2		
			629-01003	Survey Monument (Type 3)	EACH	2																			2		
			629-01005	Survey Monument (Type 5)	EACH	2																			2		
			630-00000	Flagging	HOUR	2,500		5,000																		7,500	
			630-00003	Uniformed Traffic Control	HOUR	1,540		3,080																		4,620	
			630-00007	Traffic Control Inspection	DAY	153		307																		460	
			630-00012	Traffic Control Management	DAY	334		666																		1,000	
			630-00004	Traffic Control Vehicle	EACH	1		1																		2	
			630-80001	Flashing Beacon (Portable)	EACH	3		5																		8	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	2		5																		7	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	37		74																		111	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	16		31																		47	
			630-80343	Construction Traffic Sign (Panel Size C)	EACH	9		17																		26	
			630-80344	Construction Traffic Sign (Special)	SF	134		268																		402	
			630-80355	Portable Message Sign Panel	EACH	2		4																		6	
			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	1		2																		3	
			630-80360	Drum Channelizing Device	EACH	92		183																		275	
			630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	10		20																		30	
			630-80370	Concrete Barrier (Temporary)	LF	5,534		11,066								40										16,640	
			630-80378	Glare Screen (Temporary)	LF	1,134		2,266																		3,400	





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 1/10/2011

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BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			630-80380	Traffic Cone	EACH	167		333																	500	
			630-80384	Tubular Marker	EACH	7		13																	20	
			630-85010	Impact Attenuator (Temporary)	EACH	12		18																	30	
			630-85040	Impact Attenuator (Truck Mounted Attenuator) (Temporary)	EACH	1		1																	2	
			630-86800	Traffic Signal (Temporary)	L S	1																			1	
			631-10000	Alternate Bridge Design and Construction	L S					1															1	
			700-70010	FORCE ACCOUNT =====	F A	0.34		0.66																	1	
			700-70011	F/A Partnering	F A	0.34		0.66																	1	
			700-70013	F/A Concrete Pavement Incentive	F A			1																	1	
			700-70016	F/A Fuel Cost Adjustment	F A	0.34		0.66																	1	
			700-70018	F/A Roadway Smoothness Incentive	F A			1																	1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A			1																	1	
			700-70021	F/A On-The-Job Trainee	HOUR	6,500																			6,500	
			700-70022	F/A OJT Colorado Training Program	F A	0.34		0.66																	1	
			700-70025	F/A Quality Incentive Payment	F A			1																	1	
			700-70028	F/A ESB Program	F A	0.34		0.66																	1	
			700-70031	F/A INTERIM SURFACE REPAIR	F A	0.34		0.66																	1	
			700-70310	F/A Landscaping (Restoration)	F A	1																			1	
			700-70035	F/A UTC Officer Time	F A	1																			1	
			700-70036	Forced Accounts Provide Security Guard	F A	1																			1	
			700-70072	F/A Obtain Power from Xcel Energy Furnish and Install Electrical Services	F A	1																			1	
			700-70081	F/A Provide Dewatering	F A	1																			1	
			700-70380	F/A Erosion Control	F A	1																			1	
			700-70587	F/A Hazardous Waste Disposal Force Account	F A	1																			1	
			700-70589	F/A Environmental Health & Safety Management	F A	0.34		0.66																	1	
			700-70014	F/A Early Completion Incentive	F A	0.34		0.66																	1	
			700-70034	F/A Obtain Street Permits from Denver	F A	1																			1	

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 Unit Information Unit Leader Initials

 FELSBURG HOLT & LILLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions			
Date:	Comments	Init.	
12/03/10	REVISED SHEET	SYS	
01/03/11	REVISED SHEET	SYS	
01/10/11	CORRECTED TRF CONES	KRK	
	REVISED ITEM NOS.	KRK	

Colorado Department of Transportation


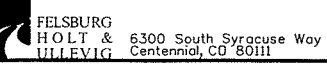
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
S.A.Q.
ALTERNATE 2 - RAMP 1 ALT DESIGN
 Designer: CDDT Structure Numbers
 Detailer: CDDT
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Project No./Code
 BR 0252-407
 17783
 Sheet Number **25 C**

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			201-00000	Clearing and Grubbing	L S	0.34		0.66																	1	
			202-00010	Removal of Tree	EACH	52		51																	103	
			202-00011	Tree Trimming	EACH	20																			20	
			202-00019	Removal of Inlet	EACH	38																			38	
			202-00021	Removal of Manhole	EACH	10																			10	
			202-00035	Removal of Pipe	LF	5,645																			5,645	
			202-00037	Removal of End Section	EACH	1																			1	
			202-00090	Removal of Delineator	EACH			50																	50	
			202-00165	Removal of Wall	L S	1																			1	
			202-00190	Removal of Concrete Median Cover Material	SY	535		235																	770	
			202-00195	Removal of Median Cover	SY	2,630																			2,630	
			202-00200	Removal of Sidewalk	SY	55																			55	
			202-00203	Removal of Curb and Gutter	LF	10,134		314																	10,448	
			202-00206	Removal of Concrete Curb Ramp	SY	20																			20	
			202-00210	Removal of Concrete Pavement	SY	100																			100	
			202-00220	Removal of Asphalt Mat	SY	26,023		37,899																	63,922	
			202-00240	Removal of Asphalt Mat (Planing)	SY	1,557		3,114																	4,671	
			202-00250	Removal of Pavement Marking	SF	33,239																			33,239	
			202-00400	Removal of Bridge F-16-XS	EACH											2									2	
			202-00495	Removal of Portions of Present Structure F-16-DS	L S																1				1	
			202-00750	Removal of Luminaire (BRIDGE)	EACH			2																	2	
			202-00805	Removal of Overhead Sign Structure	EACH	3																			3	
			202-00810	Removal of Ground Sign	EACH	57																			57	
			202-00815	Removal of Sign (Special)	EACH	6																			6	
			202-00821	Removal of Sign Panel	EACH	19																			19	
			202-00825	Removal of Flashing Beacon	EACH	2																			2	
			202-00831	Removal of Traffic Signal Head	EACH	7																			7	
			202-00840	Removal of Traffic Signal Pole	EACH	2																			2	
			202-00895	Removal of Impact Attenuator	EACH	2		2																	4	
			202-00900	Removal of Concrete Footing (Light Standard Foundation)	EACH	60																			60	
			202-01130	Removal of Guardrail Type 3	LF	3,591																			3,591	
			202-01170	Removal of Guardrail Type 7	LF	1,303		3,680																	4,983	

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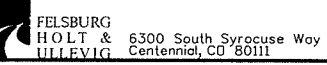
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			202-01300	Removal of End Anchorage	EACH	14																			14	
			202-04001	Plug Culvert	EACH	3																			3	
			202-04100	Abandon Well	EACH	8																			8	
			203-00010	Unclassified Excavation (Complete In Place)	CY	91,848		56,003																	147,851	
			203-00710	Clay Plating (Complete In Place)	CY	1,190																			1,190	
			203-01500	Blading	HOUR	240																			240	
			203-01510	Backhoe	HOUR	240																			240	
			203-01597	Potholing	HOUR	100		100																	200	
			203-01620	Sweeping	HOUR	240																			240	
			206-00000	Structure Excavation	CY	3,564		10,366		4,432				2,686				9,154		5,898		3,908			40,008	
			206-00065	Structure Backfill (Flow-Fill)	CY	22																			22	
			206-00100	Structure Backfill (Class 1)	CY	5,651		34,312		342		641		4,927				37,356		18,635		10,238			112,102	
			206-00200	Structure Backfill (Class 2)	CY	12				2,335															2,347	
			206-00360	Mechanical Reinforcement of Soil	CY	5,135		20,029		342		435		4,251				21,209		10,836		8,313			70,550	
			206-00505	Filter Material (Special) ASTM C33 Sand	CY	712																			712	
			206-00530	Filter Material (Class C)	CY	317																			317	
			206-01781	Shoring (Area 1)	L S	1																			1	
			206-01782	Shoring (Area 2)	L S			1																	1	
			206-01783	Shoring (Area 3)	L S			1																	1	
			206-01784	Shoring (Area 4)	L S	1																			1	
			206-01786	Shoring (Area 6)	L S					1															1	
			206-01787	Shoring (Area 7)	L S	1																			1	
			208-00002	Erosion Log (12 Inch)	LF	27,150																			27,150	
			208-00020	Silt Fence	LF	8,168																			8,168	
			208-00034	Gravel Bag	LF	1,050																			1,050	
			208-00040	Check Dam	EACH	68																			68	
			208-00045	Concrete Washout Structure	EACH	18																			18	
			208-00050	Storm Drain Inlet Protection	EACH	191																			191	
			208-00070	Vehicle Tracking Pad Stabilized Construction Entrance	EACH	15																			15	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	420																			420	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	360																			360	
			208-00205	Erosion Control Supervisor	HOUR	600																			600	
			208-00300	Temporary Berms	LF	1,500																			1,500	

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			210-00001	Reset Structure (Well)	EACH	1																			1	
			210-00473	Reset TV Cameras	EACH	1																			1	
			210-00810	Reset Ground Sign	EACH	1																			1	
			210-00815	Reset Sign Panel	EACH	1																			1	
			210-00820	Reset Variable Message Sign	EACH	1																			1	
			210-00848	Reset Traffic Signal Controller and Cabinet	EACH	1																			1	
			210-00910	Reset Traffic Counter (Permanent)	EACH	4																			4	
			210-01000	Reset Fence F-16-DS Wall	LF																	542			542	
			210-04010	Adjust Manhole	EACH	6																			6	
			210-04015	Modify Manhole	EACH	1																			1	
			210-04020	Modify Inlet	EACH	2																			2	
			212-00006	Seeding (Native)	ACRE	42																			42	
			212-00048	Soil Preparation (Special)	CY	7																			7	
			213-00004	Mulching (Weed Free Strow)	ACRE	42																			42	
			213-00008	Mulching (Wood Chip)	CF	6																			6	
			213-00061	Mulch Tockifier	LB	8,400																			8,400	
			213-00100	Soil Binder	ACRE	29																			29	
			214-00000	Landscape Maintenance	L S	1																			1	
			214-00022	Deciduous Tree (2 Inch Caliper)(Furnish Only)	EACH	128																			128	
			214-00230	Deciduous Tree (3 Inch Caliper)	EACH	16																			16	
			214-00506	Evergreen Tree (6 Foot) (Ball and Burlap)	EACH	17																			17	
			216-00030	Soil Retention Blanket (Special)	SY	9,525																			9,525	
			216-00041	Soil Retention Blanket (Strow/Coconut)	SY	19,605																			19,605	
			217-00020	Herbicide Treatment	HOUR	120																			120	
			240-00000	Wildlife Biologist	HOUR	80																			80	
			250-00010	Environmental Health and Safety Management	L S	1																			1	
			250-00050	Monitoring Technician	HOUR	1,000																			1,000	
			250-00110	Health and Safety Officer	HOUR	650																			650	
			304-06000	Aggregate Base Course (Class 6)	TON	25,276		18,060																	43,336	
			304-06007	Aggregate Base Course (Class 6)	CY	1,736		4,461				333		858				3,816		2,289		1,871			15,364	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	2,675																			2,675	
			403-09221	Stone Matrix Asphalt (Fibers)(Asphalt)	TON					1,164															1,164	
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	8,545		1,535																	10,080	
			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	3,062		685																	3,747	

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 6300 South Syracuse Way Centennial, CO 80111					Region 6		Revised:		Sheet Subset: MISC Subset Sheets: SAQ-22 of 38			17783	
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			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	5,809		930																	6,739	
			412-00800	Concrete Pavement (8 Inch)	SY	100																			100	
			412-01300	Concrete Pavement (13 Inch)	SY	2,365		40,095																	42,460	
			503-00024	Drilled Caisson (24 Inch)	LF	7				108						346									461	
			503-00030	Drilled Caisson (30 Inch)	LF	72																			72	
			503-00036	Drilled Caisson (36 Inch)	LF					183						88									271	
			503-00048	Drilled Caisson (48 Inch)	LF	29				582															611	
			503-00054	Drilled Caisson (54 Inch)	LF	200																			200	
			503-00072	Drilled Caisson (72 Inch)	LF					71															71	
			504-04420	Precast Panel Facing	SF	1,631		2,798				954		6,681				26,825		13,581		19,489			71,959	
			506-00010	Riprap (Special)	CY	205																			205	
			506-00030	Grouted Riprap	CY	317																			317	
			507-00000	Concrete Slope and Ditch Paving	CY	31		17																	48	
			509-08100	Provide Temporary Support (F-16-DT)	L S													1							1	
			509-08100	Provide Temporary Support (F-16-XR)	L S					1															1	
			512-00101	Bearing Device (Type I) (F-16-DW)	EACH											1									1	
			512-00103	Bearing Device (Type III)	EACH					12															12	
			513-00600	Bridge Drain	EACH					10															10	
			515-00120	Waterproofing (Membrane)	SY					7,181															7,181	
			518-01004	Bridge Expansion Device (0-4 Inch)	LF					72															72	
			518-01012	Bridge Expansion Device (0-12 Inch)	LF					72															72	
			601-03000	Concrete Class D	CY	290																			290	
			601-03040	Concrete Class D (Bridge)	CY					3,031															3,031	
			601-03050	Concrete Class D (Wall)	CY							57		106		126		389		213		391			1,282	
			601-05050	Concrete Class S50	CY					150															150	
			601-40302	Structural Concrete Coating (Anti-Graffiti)	SF					46,511		2,070		8,985		2,226		32,535		18,078		27,266			137,671	
			601-40400	Structural Concrete Stain	SY					16,225		230		999		247		3,615		2,009		3,030			26,355	
			602-00000	Reinforcing Steel	LB	29,530				37,770															67,300	
			602-00020	Reinforcing Steel (Epoxy Coated)	LB	170				785,260		8,335		16,070		12,185		59,635		32,820		60,525			975,000	
			603-01185	18 Inch Reinforced Concrete Pipe (CIP)	LF	2,399																			2,399	
			603-01245	24 Inch Reinforced Concrete Pipe (CIP)	LF	1,656																			1,656	
			603-01305	30 Inch Reinforced Concrete Pipe (CIP)	LF	635																			635	
			603-01485	48 Inch Reinforced Concrete Pipe (CIP)	LF	342																			342	

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BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	324																			324	
			603-02305	38x24 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	230																			230	
			603-02665	83x53 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	529																			529	
			603-05018	18 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05024	24 Inch Reinforced Concrete End Section	EACH	1																			1	
			603-05030	30 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05124	30x19 Inch Reinforced Concrete End Section Elliptical	EACH	1																			1	
			603-50004	4 Inch Plastic Pipe Perforated	LF	751																			751	
			603-50015	15 Inch Plastic Pipe	LF	637				163															800	
			604-00305	Inlet Type C (5 Foot)	EACH	4																			4	
			604-00310	Inlet Type C (10 Foot)	EACH	1																			1	
			604-00505	Inlet Type D (5 Foot)	EACH	1																			1	
			604-16005	Inlet Type 16 (5 Foot)	EACH	1																			1	
			604-19000	Inlet Special	EACH	1																			1	
			604-20000	Outlet Structure	EACH	1																			1	
			604-25011	Vane Grate Inlet Special (10 Foot)	EACH	1																			1	
			604-26005	Vane Grate Inlet (Double) (5 Foot)	EACH	10																			10	
			604-26010	Vane Grate Inlet (Double) (10 Foot)	EACH	13																			13	
			604-26015	Vane Grate Inlet (Double) (15 Foot)	EACH	1																			1	
			604-30005	Manhole Slab Base (5 Foot)	EACH	2																			2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	4																			4	
			604-30020	Manhole Slab Base (20 Foot)	EACH	1																			1	
			604-39005	Manhole Special (5 Foot)	EACH	3																			3	
			604-39010	Manhole Special (10 Foot)	EACH	2																			2	
			604-39015	Manhole Special (15 Foot)	EACH	1																			1	
			604-39020	Manhole Special (20 Foot)	EACH	4																			4	
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	1,010		300																	1,310	
			606-00705	Guardrail Type 7 (Special)	LF	7,400		1,309																	8,709	
			606-00710	Guardrail Type 7 (Style CA)	LF	1,140		1,020																	2,160	
			606-00725	Guardrail Type 7 (Style CC)(Concrete Glare Screen)	LF			555																	555	
			606-00730	Guardrail Type 7 (Style CD)	LF																891				891	

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File Name: 16311DES_PH2_SAQ24.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6			No Revisions:		Designer: CDDT		Structure		BR 0252-407	
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			606-00740	Guardrail Type 7 (Style CE)	LF	80		444																	524	
			606-00745	Guardrail Type 7 (Style CE)(Concrete Glare Screen)	LF			1,774																	1,774	
			606-01340	End Anchorage Type 3D	EACH	3		1																	4	
			606-01370	Transition Type 3G	EACH	1																			1	
			606-01380	Transition Type 3H	EACH	2		1																	3	
			606-02003	End Anchorage (Nonflared)	EACH	2																			2	
			606-10700	Bridge Rail Type 7	LF					3,594		164		324				1,181		641				1,151	7,055	
			607-53137	Fence Chain Link (Special) (36 Inch)	LF					3,496														508	4,004	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	217																			217	
			609-24006	Gutter Type 2 (6 Foot)	LF	128																			128	
			612-00001	Delineator (Type I)	EACH	76																			76	
			612-00002	Delineator (Type II)	EACH	14																			14	
			612-00003	Delineator (Type III)	EACH	4																			4	
			612-00021	Delineator (Type I) (Barrier)	EACH	206																			206	
			612-00022	Delineator (Type II) (Barrier)	EACH	31																			31	
			613-00100	1 Inch Electrical Conduit	LF					213															213	
			613-00200	2 Inch Electrical Conduit	LF	6,900				9177				678				2,391		1,342			2,311		22,799	
			613-00300	3 Inch Electrical Conduit	LF	2,350																			2,350	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	3,590																			3,590	
			613-01300	3 Inch Electrical Conduit (Plastic)	LF	3,290																			3,290	
			613-07000	Pull Box (Special)	EACH	3																			3	
			613-07023	Pull Box (24"x36"x24")	EACH	4																			4	
			613-07026	Pull Box (16"x24"x12")	EACH	13																			13	
			613-07039	Pull Box (30"x48"x18")	EACH	7																			7	
			613-10000	Wiring	L S	1																			1	
			613-32300	Light Standard Steel (30 Foot)	EACH	1																			1	
			613-32400	Light Standard Steel (40 Foot)	EACH	52																			52	
			613-34700	Light Standard Metal (70 Foot) (65 FT)	EACH	6																			6	
			613-40010	Light Standard Foundation (Temp Reset)	EACH	52																			52	
			613-50100	Lighting Control Center	EACH	1																			1	
			613-70250	Luminaire High Pressure Sodium (250 Watt)	EACH	52																			52	
			613-71000	Luminaire High Pressure Sodium (1000 Watt)	EACH	16																			16	

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			613-72150	Luminaire High Pressure Sodium (Wall Type) (150 Watt)	EACH	15																			15		
			614-00011	Sign Panel (Class I)	SF	283																				283	
			614-00012	Sign Panel (Class II)	SF	845																				845	
			614-00013	Sign Panel (Class III)	SF	3,468																				3,468	
			614-00040	Sign Post (Special)	LF	19																				19	
			614-00216	Steel Sign Post (2x2 Inch Tubing)	LF	492																				492	
			614-00818	Steel Sign Post (W 8x18)	LF	35																				35	
			614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post & Slipbase)	EACH	36																				36	
			614-03003	Concrete Footing (Type 3)	EACH	2																				2	
			614-32400	Monotube Overhead Sign Cantilever (24 Inch Diameter)	EACH	1																				1	
			614-42000	Monotube Overhead Sign Bridge (20 Inch Diameter)	EACH	3																				3	
			614-42400	Monotube Overhead Sign Bridge (24 Inch Diameter)	EACH	1																				1	
			614-70336	Traffic Signal Face (12-12-12)	EACH	21																				21	
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	1																				1	
			614-72830	Communications Cabinet	EACH	1																				1	
			614-72855	Traffic Signal Controller Cabinet	EACH	2																				2	
			614-72875	Loop Detector Wire	LF	1,460																				1,460	
			614-80000	Flashing Beacon	EACH	4																				4	
			614-85001	Impact Attenuator	EACH	1		2																		3	
			614-85312	Traffic Signal Span Wire Pole (12 Inch)	EACH	2																				2	
			614-85362	Traffic Signal-Light Span Wire Pole (12 Inch)	EACH	3																				3	
			614-85366	Traffic Signal-Light Span Wire Pole (16 Inch)	EACH	2																				2	
			614-86238	Traffic Signal Controller (Solid State) (Full-Actuated) (8 Phase)	EACH	2																				2	
			614-86800	Uninterrupted Power Supply	EACH	2																				2	
			614-87333	Closed Circuit Television Camera (Traffic Surveillance)	EACH	1																				1	
			614-87412	Fiber Optic Cable (Single Mode) (12 Strands) (Install Only)	LF	475																				475	
			614-87496	Fiber Optic Cable (Single Mode) (96 Strands)	LF	2,100																				2,100	
			615-10048	48 Inch Automatic Drain Gate	EACH	1																				1	
			618-00002	Prestressing Steel Strand	MKFT						16,666															16,666	
			618-00005	Prestressing Steel Bar	MKFT						16,349															16,349	

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ALTERNATE 3 - I-25 ALT DESIGN
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			618-06032	Prestressed Concrete Slab (Depth Less Than 6 Inches)	SF					43,833															43,833	
			618-10372	Precast Concrete U Girder (U72)(Curved) And Post-Tensioned	LF					3,439															3,439	
			620-00005	Field Office (Special)	EACH	0.34		0.66																	1	
			620-00012	Field Laboratory (Class 2)	EACH	0.34		0.66																	1	
			620-00020	Sanitary Facility	EACH	1																			1	
			621-00430	Detour	SY	7,194		14,387																	21,581	
			621-00500	Temporary Bridge	L S											1									1	
			624-20301	Detour Drainage Pipe (Class 0)	L S	1																			1	
			625-00000	Construction Surveying	L S	0.34		0.66																	1	
			626-00000	Mobilization	L S	0.34		0.66																	1	
			626-01000	Public Information Services	L S	1																			1	
			627-00001	Pavement Marking Paint	GAL	378		756																	1,134	
			627-00005	Epoxy Pavement Marking	GAL	212																			212	
			627-01010	Preformed Plastic Pavement Marking (Type I)(Inlaid)	SF	11,087																			11,087	
			627-30327	Preformed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	570																			570	
			627-30332	Preformed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	501																			501	
			629-01001	Survey Monument (Type 1)	EACH	2																			2	
			629-01003	Survey Monument (Type 3)	EACH	2																			2	
			629-01005	Survey Monument (Type 5)	EACH	2																			2	
			630-00000	Flagging	HOUR	2,500		5,000																	7,500	
			630-00003	Uniformed Traffic Control	HOUR	1,540		3,080																	4,620	
			630-00004	Traffic Control Vehicle	HOUR	1		1																	2	
			630-00007	Traffic Control Inspection	DAY	153		307																	460	
			630-00012	Traffic Control Management	DAY	334		666																	1,000	
			630-80001	Flashing Beacon (Portable)	EACH	3		5																	8	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	2		5																	7	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	37		74																	111	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	16		31																	47	
			630-80343	Construction Traffic Sign (Panel Size C)	EACH	9		17																	26	
			630-80344	Construction Traffic Sign (Special)	SF	134		268																	402	
			630-80355	Portable Message Sign Panel	EACH	2		4																	6	

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			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	1		2																	3	
			630-80360	Drum Channelizing Device	EACH	92		183																	275	
			630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	10		20																	30	
			630-80370	Concrete Barrier (Temporary)	LF	5,534		11,066						40											16,640	
			630-80378	Glare Screen (Temporary)	LF	1,134		2,266																	3,400	
			630-80380	Traffic Cone	EACH	167		333																	500	
			630-80384	Tubular Marker	EACH	7		13																	20	
			630-85010	Impact Attenuator (Temporary)	EACH	12		18																	30	
			630-85040	Impact Attenuator (Truck Mounted Attenuator) (Temporary)	EACH	1		1																	2	
			630-86800	Traffic Signal (Temporary)	L S	1																			1	
			631-10000	Alternate Bridge Design and Construction	L S											1									1	
				FORCE ACCOUNT =====																						
			700-70010	F/A Minor Contract Revisions	F A	0.34		0.66																	1	
			700-70011	F/A Partnering	F A	0.34		0.66																	1	
			700-70013	F/A Concrete Pavement Incentive	F A			1																	1	
			700-70016	F/A Fuel Cost Adjustment	F A	0.34		0.66																	1	
			700-70018	F/A Roadway Smoothness Incentive	F A			1																	1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A			1																	1	
			700-70021	F/A On-The-Job Trainee	HOUR	6,500																			6,500	
			700-70022	F/A OJT Colorado Training Program	F A	0.34		0.66																	1	
			700-70025	F/A Quality Incentive Payment	F A			1																	1	
			700-70028	F/A ESB Program	F A	0.34		0.66																	1	
			700-70031	F/A INTERIM SURFACE REPAIR	F A	0.34		0.66																	1	
			700-70310	F/A Landscaping (Restoration)	F A	1																			1	
			700-70035	F/A UTC Officer Time	F A	1																			1	
			700-70036	Forced Accounts Provide Security Guard	F A	1																			1	
			700-70072	F/A Obtain Power from Xcel Energy Furnish and Install Electrical Services	F A	1																			1	
			700-70081	F/A Provide Dewatering	F A	1																			1	
			700-70380	F/A Erosion Control	F A	1																			1	
			700-70587	F/A Hazardous Waste Disposal Force Account	F A	1																			1	
			700-70589	F/A Environmental Health & Safety Management	F A	0.34		0.66																	1	
			700-70014	F/A Early Completion Incentive	F A	0.34		0.66																	1	

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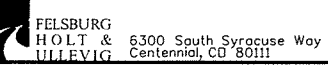
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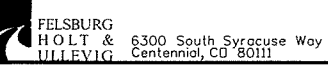
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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
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			201-00000	Clearing and Grubbing	L S	0.34		0.66																	1	
			202-00010	Removal of Tree	EACH	52		51																	103	
			202-00011	Tree Trimming	EACH	20																			20	
			202-00019	Removal of Inlet	EACH	38																			38	
			202-00021	Removal of Manhole	EACH	10																			10	
			202-00035	Removal of Pipe	LF	5,645																			5,645	
			202-00037	Removal of End Section	EACH	1																			1	
			202-00090	Removal of Delineator	EACH			50																	50	
			202-00165	Removal of Wall	L S	1																			1	
			202-00190	Removal of Concrete Median Cover Material	SY	535		235																	770	
			202-00195	Removal of Median Cover	SY	2,630																			2,630	
			202-00200	Removal of Sidewalk	SY	55																			55	
			202-00203	Removal of Curb and Gutter	LF	10,134		314																	10,448	
			202-00206	Removal of Concrete Curb Ramp	SY	20																			20	
			202-00210	Removal of Concrete Pavement	SY	100																			100	
			202-00220	Removal of Asphalt Mat	SY	26,023		37,899																	63,922	
			202-00240	Removal of Asphalt Mat (Planing)	SY	1,557		3,114																	4,671	
			202-00250	Removal of Pavement Marking	SF	33,239																			33,239	
			202-00400	Removal of Bridge F-16-XS	EACH										2										2	
			202-00495	Removal of Portions of Present Structure F-16-DS	L S																1				1	
			202-00750	Removal of Luminaire (BRIDGE)	EACH			2																	2	
			202-00805	Removal of Overhead Sign Structure	EACH	3																			3	
			202-00810	Removal of Ground Sign	EACH	57																			57	
			202-00815	Removal of Sign (Special)	EACH	6																			6	
			202-00821	Removal of Sign Panel	EACH	19																			19	
			202-00825	Removal of Flashing Beacon	EACH	2																			2	
			202-00831	Removal of Traffic Signal Head	EACH	7																			7	
			202-00840	Removal of Traffic Signal Pole	EACH	2																			2	
			202-00895	Removal of Impact Attenuator	EACH	2		2																	4	
			202-00900	Removal of Concrete Footing (Light Standard Foundation)	EACH	60																			60	
			202-01130	Removal of Guardrail Type 3	LF	3,591																			3,591	
			202-01170	Removal of Guardrail Type 7	LF	1,303		3,680																	4,983	

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Unit Information Unit Leader Initials		(R-2) 01/03/11	REVISED SHEET	SYS	Void:		Detailer: CDDT Numbers		Sheet Number					
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			202-01300	Removal of End Anchorage	EACH	14																			14	
			202-04001	Plug Culvert	EACH	3																			3	
			202-04100	Abandon Well	EACH	8																			8	
			203-00010	Unclassified Excavation (Complete In Place)	CY	91,848		56,003																	147,851	
			203-00710	Clay Plating (Complete In Place)	CY	1,190																			1,190	
			203-01500	Blading	HOUR	240																			240	
			203-01510	Backhoe	HOUR	240																			240	
			203-01597	Potholing	HOUR	100		100																	200	
			203-01620	Sweeping	HOUR	240																			240	
			206-00000	Structure Excavation	CY	3,564		10,366					2,686				9,154		5,898		3,908				35,576	
			206-00065	Structure Backfill (Flow-Fill)	CY	22																			22	
			206-00100	Structure Backfill (Class 1)	CY	5,651		34,312				641		4,927			37,356		18,635		10,238				111,760	
			206-00200	Structure Backfill (Class 2)	CY	12																			10	
			206-00360	Mechanical Reinforcement of Soil	CY	5,135		20,029				435		4,251			21,209		10,836		8,313				70,208	
			206-00505	Filter Material (Special) ASTM C33 Sand	CY	712																			712	
			206-00530	Filter Material (Class C)	CY	317																			317	
			206-01781	Shoring (Area 1)	L S	1																			1	
			206-01782	Shoring (Area 2)	L S			1																	1	
			206-01783	Shoring (Area 3)	L S			1																	1	
			206-01784	Shoring (Area 4)	L S	1																			1	
			206-01787	Shoring (Area 7)	L S	1																			1	
			208-00002	Erosion Log (12 Inch)	LF	27,150																			27,150	
			208-00020	Silt Fence	LF	8,168																			8,168	
			208-00034	Gravel Bag	LF	1,050																			1,050	
			208-00040	Check Dam	EACH	68																			68	
			208-00045	Concrete Washout Structure	EACH	18																			18	
			208-00050	Storm Drain Inlet Protection	EACH	191																			191	
			208-00070	Vehicle Tracking Pad Stabilized Construction Entrance	EACH	15																			15	
			208-00103	Removal and Disposal of Sediment (Labor)	HOUR	420																			420	
			208-00105	Removal and Disposal of Sediment (Equipment)	HOUR	360																			360	
			208-00205	Erosion Control Supervisor	HOUR	600																			600	
			208-00300	Temporary Berms	LF	1,500																			1,500	
			210-00001	Reset Structure (Well)	EACH	1																			1	

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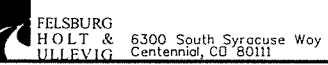
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			210-00473	Reset TV Cameras	EACH	1																			1	
			210-00810	Reset Ground Sign	EACH	1																			1	
			210-00815	Reset Sign Panel	EACH	1																			1	
			210-00820	Reset Variable Message Sign	EACH	1																			1	
			210-00848	Reset Traffic Signal Controller and Cabinet	EACH	1																			1	
			210-00910	Reset Traffic Counter (Permanent)	EACH	4																			4	
			210-01000	Reset Fence F-16-DS Wall	LF																	542			542	
			210-04010	Adjust Manhole	EACH	6																			6	
			210-04015	Modify Manhole	EACH	1																			1	
			210-04020	Modify Inlet	EACH	2																			2	
			212-00006	Seeding (Native)	ACRE	42																			42	
			212-00048	Soil Preparation (Special)	CY	7																			7	
			213-00004	Mulching (Weed Free Straw)	ACRE	42																			42	
			213-00008	Mulching (Wood Chip)	CF	6																			6	
			213-00061	Mulch Tackifier	LB	8,400																			8,400	
			213-00100	Soil Binder	ACRE	29																			29	
			214-00000	Landscape Maintenance	L S	1																			1	
			214-00022	Deciduous Tree (2 Inch Caliper)(Furnish Only)	EACH	128																			128	
			214-00230	Deciduous Tree (3 Inch Caliper)	EACH	16																			16	
			214-00506	Evergreen Tree (6 Foot) (Ball and Burlap)	EACH	17																			17	
			216-00030	Soil Retention Blanket (Special)	SY	9,525																			9,525	
			216-00041	Soil Retention Blanket (Straw/Coconut)	SY	19,605																			19,605	
			217-00020	Herbicide Treatment	HOURL	120																			120	
			240-00000	Wildlife Biologist	HOURL	80																			80	
			250-00010	Environmental Health and Safety Management	L S	1																			1	
			250-00050	Monitoring Technician	HOURL	1,000																			1,000	
			250-00110	Health and Safety Officer	HOURL	650																			650	
			304-06000	Aggregate Base Course (Class 6)	TON	25,276		18,060																	43,336	
			304-06007	Aggregate Base Course (Class 6)	CY	1,736		4,461			333		858				3,816		2,289			1,871			15,364	
			403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	2,675																			2,675	
			403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	8,545		1,535																	10,080	
			403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	3,062		685																	3,747	
			411-10255	Emulsified Asphalt (Slow-Setting)	GAL	5,809		930																	6,739	
			412-00800	Concrete Pavement (8 Inch)	SY	100																			100	

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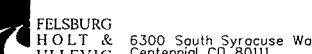
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			412-01300	Concrete Pavement (13 Inch)	SY	2,365		40,095																	42,460	
			503-00024	Drilled Caisson (24 Inch)	LF	7									346										353	
			503-00030	Drilled Caisson (30 Inch)	LF	72																			72	
			503-00036	Drilled Caisson (36 Inch)	LF										88										88	
			503-00048	Drilled Caisson (48 Inch)	LF	29																			29	
			503-00054	Drilled Caisson (54 Inch)	LF	200																			200	
			504-04420	Precast Panel Facing	SF	1,631	2,798					954		6,681				26,825		13,581			19,489		71,959	
			506-00010	Riprap (Special)	CY	205																			205	
			506-00030	Grouted Riprap	CY	317																			317	
			507-00000	Concrete Slope and Ditch Paving	CY	31		17																	48	
			509-08100	Provide Temporary Support (F-16-DT)	L S													1							1	
			512-00101	Bearing Device (Type I) (F-16-DW)	EACH										1										1	
			601-03000	Concrete Class D	CY	290																			290	
			601-03050	Concrete Class D (Wall)	CY							57		106		126		389		213		391			1,282	
			601-40302	Structural Concrete Coating (Anti-Graffiti)	SF							2,070		8,985		2,226		32,535		18,078		27,266			91,160	
			601-40400	Structural Concrete Stain	SY							230		999		247		3,615		2,009		3,030			10,130	
			602-00000	Reinforcing Steel	LB	29,530																			29,530	
			602-00020	Reinforcing Steel (Epoxy Coated)	LB	170						8,335		16,070		12,185		59,635		32,820		60,525			189,740	
			603-01185	18 Inch Reinforced Concrete Pipe (CIP)	LF	2,399																			2,399	
			603-01245	24 Inch Reinforced Concrete Pipe (CIP)	LF	1,656																			1,656	
			603-01305	30 Inch Reinforced Concrete Pipe (CIP)	LF	635																			635	
			603-01485	48 Inch Reinforced Concrete Pipe (CIP)	LF	342																			342	
			603-02245	30x19 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	324																			324	
			603-02305	38x24 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	230																			230	
			603-02665	83x53 Inch Reinforced Concrete Pipe Elliptical (CIP)	LF	529																			529	
			603-05018	18 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05024	24 Inch Reinforced Concrete End Section	EACH	1																			1	
			603-05030	30 Inch Reinforced Concrete End Section	EACH	3																			3	
			603-05124	30x19 Inch Reinforced Concrete End Section Elliptical	EACH	1																			1	
			603-50004	4 Inch Plastic Pipe Perforated	LF	751																			751	
			603-50015	15 Inch Plastic Pipe	LF	637																			637	

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			604-00305	Inlet Type C (5 Foot)	EACH	4																			4	
			604-00310	Inlet Type C (10 Foot)	EACH	1																			1	
			604-00505	Inlet Type D (5 Foot)	EACH	1																			1	
			604-16005	Inlet Type 16 (5 Foot)	EACH	1																			1	
			604-19000	Inlet Special	EACH	1																			1	
			604-20000	Outlet Structure	EACH	1																			1	
			604-25011	Vane Grate Inlet Special (10 Foot)	EACH	1																			1	
			604-26005	Vane Grate Inlet (Double) (5 Foot)	EACH	10																			10	
			604-26010	Vane Grate Inlet (Double) (10 Foot)	EACH	13																			13	
			604-26015	Vane Grate Inlet (Double) (15 Foot)	EACH	1																			1	
			604-30005	Manhole Slab Base (5 Foot)	EACH	2																			2	
			604-30010	Manhole Slab Base (10 Foot)	EACH	4																			4	
			604-30020	Manhole Slab Base (20 Foot)	EACH	1																			1	
			604-39005	Manhole Special (5 Foot)	EACH	3																			3	
			604-39010	Manhole Special (10 Foot)	EACH	2																			2	
			604-39015	Manhole Special (15 Foot)	EACH	1																			1	
			604-39020	Manhole Special (20 Foot)	EACH	4																			4	
			606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	1,010		300																	1,310	
			606-00705	Guardrail Type 7 (Special)	LF	7,400		1,309																	8,709	
			606-00710	Guardrail Type 7 (Style CA)	LF	1,140		1,020																	2,160	
			606-00725	Guardrail Type 7 (Style CC)(Concrete Glare Screen)	LF			555																	555	
			606-00730	Guardrail Type 7 (Style CD)	LF															891					891	
			606-00740	Guardrail Type 7 (Style CE)	LF	80		444																	524	
			606-00745	Guardrail Type 7 (Style CE)(Concrete Glare Screen)	LF			1,774																	1,774	
			606-01340	End Anchorage Type 3D	EACH	3		1																	4	
			606-01370	Transition Type 3G	EACH	1																			1	
			606-01380	Transition Type 3H	EACH	2		1																	3	
			606-02003	End Anchorage (Nonflared)	EACH	2																			2	
			606-10700	Bridge Rail Type 7	LF							164		324					1,181		641		1,151		3,461	
			607-53137	Fence Chain Link (Special) (36 Inch)	LF																508				508	
			609-21020	Curb and Gutter Type 2 (Section II-B)	LF	217																			217	
			609-24006	Gutter Type 2 (6 Foot)	LF	128																			128	
			612-00001	Delineator (Type I)	EACH	76																			76	

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File Name: 16311DES_PH2_SAQ34.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB		No Revisions:		S.A.Q.			BR 0252-407	
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS			Revised:		ALT 4 - RAMP 1/I-25 ALT DESIGNS			17783	
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS			Void:		Designer: CDDT Structure		17783		
 6300 South Syracuse Way Centennial, CO 80111							Detailer: CDDT Numbers		Sheet Subset: MISC Subset Sheets: SAQ-34 of 38		Sheet Number 39 B		

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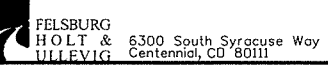
INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN
			612-00002	Delineator (Type II)	EACH	14																			14	
			612-00003	Delineator (Type III)	EACH	4																			4	
			612-00021	Delineator (Type I) (Barrier)	EACH	206																			206	
			612-00022	Delineator (Type II) (Barrier)	EACH	31																			31	
			613-00200	2 Inch Electrical Conduit	LF	6,900						678				2,391		1,342			2,311				13,622	
			613-00300	3 Inch Electrical Conduit	LF	2,350																			2,350	
			613-01200	2 Inch Electrical Conduit (Plastic)	LF	3,590																			3,590	
			613-01300	3 Inch Electrical Conduit (Plastic)	LF	3,290																			3,290	
			613-07000	Pull Box (Special)	EACH	3																			3	
			613-07023	Pull Box (24"x36"x24")	EACH	4																			4	
			613-07026	Pull Box (16"x24"x12")	EACH	13																			13	
			613-07039	Pull Box (30"x48"x18")	EACH	7																			7	
			613-10000	Wiring	L S	1																			1	
			613-32300	Light Standard Steel (30 Foot)	EACH	1																			1	
			613-32400	Light Standard Steel (40 Foot)	EACH	52																			52	
			613-34700	Light Standard Metal (70 Foot) (65 FT)	EACH	6																			6	
			613-40010	Light Standard Foundation (Temp Reset)	EACH	52																			52	
			613-50100	Lighting Control Center	EACH	1																			1	
			613-70250	Luminaire High Pressure Sodium (250 Watt)	EACH	52																			52	
			613-71000	Luminaire High Pressure Sodium (1000 Watt)	EACH	16																			16	
			613-72150	Luminaire High Pressure Sodium (Wall Type) (150 Watt)	EACH	15																			15	
			614-00011	Sign Panel (Class I)	SF	283																			283	
			614-00012	Sign Panel (Class II)	SF	845																			845	
			614-00013	Sign Panel (Class III)	SF	3,468																			3,468	
			614-00040	Sign Post (Special)	LF	19																			19	
			614-00216	Steel Sign Post (2x2 Inch Tubing)	LF	492																			492	
			614-00818	Steel Sign Post (W 8x18)	LF	35																			35	
			614-01583	Steel Sign Support (2-1/2 In Round Sch 80) (Post & Slipbase)	EACH	36																			36	
			614-03003	Concrete Footing (Type 3)	EACH	2																			2	
			614-32400	Monotube Overhead Sign Cantilever (24 Inch Diameter)	EACH	1																			1	

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File Name: 16311DES_PH2_SAQ35.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		S.A.Q.			BR 0252-407	
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Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS			Void:		Designer: CDDT		Structure		Sheet Number 40 B
 6300 South Syracuse Way Centennial, CO 80111							Detailer: CDDT		Numbers		Subset Sheets: SAQ-35of 38		

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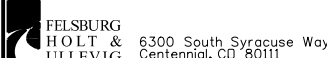
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
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			614-42000	Monotube Overhead Sign Bridge (20 Inch Diameter)	EACH	3																			3	
			614-42400	Monotube Overhead Sign Bridge (24 Inch Diameter)	EACH	1																			1	
			614-70336	Traffic Signal Face (12-12-12)	EACH	21																			21	
			614-70448	Traffic Signal Face (12-12-12-12)	EACH	1																			1	
			614-72830	Communications Cabinet	EACH	1																			1	
			614-72855	Traffic Signal Controller Cabinet	EACH	2																			2	
			614-72875	Loop Detector Wire	LF	1,460																			1,460	
			614-80000	Flashing Beacon	EACH	4																			4	
			614-85001	Impact Attenuator	EACH	1		2																	3	
			614-85312	Traffic Signal Span Wire Pole (12 Inch)	EACH	2																			2	
			614-85362	Traffic Signal-Light Span Wire Pole (12 Inch)	EACH	3																			3	
			614-85366	Traffic Signal-Light Span Wire Pole (16 Inch)	EACH	2																			2	
			614-86238	Traffic Signal Controller (Solid State) (Full-Actuated) (8 Phase)	EACH	2																			2	
			614-86800	Uninterrupted Power Supply	EACH	2																			2	
			614-87333	Closed Circuit Television Camera (Traffic Surveillance)	EACH	1																			1	
			614-87412	Fiber Optic Cable (Single Mode) (12 Strands) (Install Only)	LF	475																			475	
			614-87496	Fiber Optic Cable (Single Mode) (96 Strands)	LF	2,100																			2,100	
			615-10048	48Inch Automatic Drain Gate	EACH	1																			1	
			620-00005	Field Office (Special)	EACH	0.34		0.66																	1	
			620-00012	Field Laboratory (Class 2)	EACH	0.34		0.66																	1	
			620-00020	Sanitary Facility	EACH	1																			1	
			621-00430	Detour	SY	7,194		14,387																	21,581	
			621-00500	Temporary Bridge	L S											1									1	
			624-20301	Detour Drainage Pipe (Class 0)	L S	1																			1	
			625-00000	Construction Surveying	L S	0.34		0.66																	1	
			626-00000	Mobilization	L S	0.34		0.66																	1	
			626-01000	Public Information Services	L S	1																			1	
			627-00001	Pavement Marking Paint	GAL	378		756																	1,134	
			627-00005	Epoxy Pavement Marking	GAL	212																			212	
			627-01010	Preformed Plastic Pavement Marking (Type I)(Inlaid)	SF	11,087																			11,087	
			627-30327	Preformed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	570																			570	
			627-30332	Preformed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	501																			501	

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE				Project No./Code			
File Name: 16311DES_PH2_SAQ36.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		S.A.Q.				BR 0252-407 17783			
Horiz. Scale: 1:200 Vert. Scale: As Noted		12/03/10	REVISED SHEET	SYS					Revised:		ALT 4 - RAMP 1/I-25 ALT DESIGNS					
Unit Information Unit Leader Initials		01/03/11	REVISED SHEET	SYS							Void:				Designer: CDDT Structure	
 6300 South Syracuse Way Centennial, CO 80111					Region 6 RLB		Sheet Subset: MISC		Subset Sheets: SAQ-36 of 38				Sheet Number 41 B			

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INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	(200) BID ITEMS FOR F-16-XR ROADWAY		(250) BID ITEMS FOR F-16-XS ROADWAY		(300) BID ITEMS FOR F-16-XR FLYOVER		(301) BID ITEMS FOR F-16-DU WALL		(302) BID ITEMS FOR F-16-DV WALL		(350) BID ITEMS FOR F-16-XS MAINLINE		(351) BID ITEMS FOR F-16-DW I-25 WALL		(352) BID ITEMS FOR F-16-DX WALL		(353) BID ITEMS FOR F-16-DS WALL		PROJECT TOTALS		
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			629-01001	Survey Monument (Type 1)	EACH	2																			2	
			629-01003	Survey Monument (Type 3)	EACH	2																			2	
			629-01005	Survey Monument (Type 5)	EACH	2																			2	
			630-00000	Flagging	HOUR	2,500		5,000																	7,500	
			630-00003	Uniformed Traffic Control	HOUR	1,540		3,080																	4,620	
			630-00004	Traffic Control Vehicle	EACH	1		1																	2	
			630-00007	Traffic Control Inspection	DAY	153		307																	460	
			630-00012	Traffic Control Management	DAY	334		666																	1,000	
			630-80001	Flashing Beacon (Portable)	EACH	3		5																	8	
			630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	2		5																	7	
			630-80341	Construction Traffic Sign (Panel Size A)	EACH	37		74																	111	
			630-80342	Construction Traffic Sign (Panel Size B)	EACH	16		31																	47	
			630-80343	Construction Traffic Sign (Panel Size C)	EACH	9		17																	26	
			630-80344	Construction Traffic Sign (Special)	SF	134		268																	402	
			630-80355	Portable Message Sign Panel	EACH	2		4																	6	
			630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	1		2																	3	
			630-80360	Drum Channelizing Device	EACH	92		183																	275	
			630-80363	Drum Channelizing Device (With Light) (Flashing)	EACH	10		20																	30	
			630-80370	Concrete Barrier (Temporary)	LF	5,534		11,066						40											16,640	
			630-80378	Glare Screen (Temporary)	LF	1,134		2,266																	3,400	
			630-80380	Traffic Cone	EACH	167		333																	500	
			630-80384	Tubular Marker	EACH	7		13																	20	
			630-85010	Impact Attenuator (Temporary)	EACH	12		18																	30	
			630-85040	Impact Attenuator (Truck Mounted Attenuator) (Temporary)	EACH	1		1																	2	
			630-86800	Traffic Signal (Temporary)	L S	1																			1	
			631-10000	Alternate Bridge Design and Construction	L S					1						1									2	
			700-70010	FORCE ACCOUNT =====	F A	0.34		0.66																	1	
			700-70011	F/A Partnering	F A	0.34		0.66																	1	
			700-70013	F/A Concrete Pavement Incentive	F A			1																	1	
			700-70016	F/A Fuel Cost Adjustment	F A	0.34		0.66																	1	
			700-70018	F/A Roadway Smoothness Incentive	F A			1																	1	
			700-70019	F/A Asphalt Cement Cost Adjustment	F A			1																	1	

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 Horiz. Scale: 1:200 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions			
	Date:	Comments	Init.
	12/03/10	REVISED SHEET	SYS
	01/03/11	REVISED SHEET	SYS
	01/10/11	CORRECTED TRF CONES	KRK
			

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
S.A.Q.
ALT 4 - RAMP 1/I-25 ALT DESIGNS
 Designer: CDDT Structure
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 BR 0252-407
 17783
 Sheet Number **42 C**

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

- Horizontal Control
 Vertical Control
 Roadway Alignment
 Original Terrain Data
 Other: _____

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- Landscaping
 Signalization
 Safety Improvement
 Asphalt Overlay
 Concrete Overlay
 Minor Widening
 Major Reconstruction
 New Roadway Construction
 Bridge Replacement
 Bridge Widening
 New Bridge
 Other: _____

SURVEY WORK TO BE PERFORMED BY OTHERS: _____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)
 Verification and Maintenance of Horizontal and Vertical Control
 Verify or Determine existing grades and alignments
 Verify or Determine existing topography
 GPS/RTS (Global Positioning System/Robotic Total Station) Construction Machine Control
 Clearing and Grubbing Limits (Section 201)
 Removal Limits (Section 202)
 Reset Items (Section 210)

- Excavation and Embankment (Section 203)
 Excavation
 Unclassified
 Stripping
 Muck
 Rock
 Borrow
 Other: _____
 Embankment
 Site Grading
 Erosion Control (Perm)
 Other: _____
 As Staked Earthwork Quantities (See General Notes)

- Landscaping
 Top Soil (Section 207)
 Seeding (Section 212)
 Mulching (Section 213)
 Planting (Section 214)
 Herbicide (Section 217)
 Other: _____

- Erosion Control (Section 208)
 Seeding (Temp)
 Silt Fence
 Erosion Bales
 Erosion Logs
 Riprap (Temp)
 Other: _____

- Roadway Bases
 Untreated Subgrade
 Treated Subgrade
 Aggregate Base Course (Section 304)
 Reconditioning
 PMBB - Plant Mix Bituminous Base
 Other: _____

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Excavation	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
Embankment	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

- Pavements
 HMA - Hot Mix Asphalt (Section 403)
 Concrete (Section 412)
 Heating & Scarifying Treatment
 Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
 Seal Coat or Chip Seal (Section 409)
 Other: _____

Pavements	Grid (Y/N)	Special Interval	Special Offset
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

- Roadway Elements
 Curb and Gutter (Section 609)
 Drop inlets -
 alignment and grades (Section 604)
 Retaining Walls
 Guard Rail (Section 606)
 Sidewalk (Section 608)
 Overlay Stationing
 Other: _____

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
-	-	-	-

- Riprap (Perm) (Section 506)
 Slope and Ditch Paving (Section 507)

- Minor Structures
 Structure Excavation limits (Section 206)
 Culverts (Section 603)
 Culverts w/ Headwalls and Wingwalls (Section 601)
 Concrete Box Culverts w/ Headwalls and Wingwalls
 Pipes (Section 603)
 Sanitary Sewer
 Storm Sewer
 Water
 Irrigation
 Miscellaneous
 Manholes (Section 604)
 Inlets (Section 604)
 Permanent Water Quality BMP (Section 208)
 Other: _____

- Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges - and all other structures assigned a structure number
 Structure Excavation limits (Section 206)
 Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 Piling locations and cut off elevations (Section 502)
 Caisson locations and elevations (Section 503)
 Footing locations, alignment, and elevations
 Abutment/Pier locations, alignment, and elevations
 Wingwall skew angles/offsets
 Structural concrete form locations
 Substructure As-constructed survey required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
 Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 Deck grades at Girder 10th or "n" th point locations and elevations
 Slope and Ditch Paving (Section 507)
 Other: Temporary Support (F-16-DT)

- Fencing (Section 607)
 Temporary
 Permanent
 Sound Barrier
 Other: _____

- Delineators (Section 612)
 Temporary
 Permanent

- Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
 Signal pole locations and elevations
 Light pole locations and elevations
 Sign locations
 Field verify sign post locations, elevations, and lengths before fabrication.
 Other: _____

- Pavement Marking (Section 627)
 Striping (Temp)
 Striping (Perm)
 Symbols
 Other: _____
 Temporary Lighting and Construction Traffic Control Devices (Section 630)
 Signal pole locations and elevations (Temp)
 Light pole locations and elevations (Temp)
 Sign Locations (Temp)
 Other: _____
 All Easements (Temp Staking by P.L.S. Only)
 Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- Monumentation (Section 629)
 Control
 Right of Way
 Land corners, Aliquot corners
 Easements
 Reference the specified existing monuments:** _____
 Replace the specified existing monuments: ** _____
 Locate monuments. It is estimated _____ hours are required.



NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

** A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

- Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
- Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
- The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer _____ days prior to the Presurvey Conference - Construction Survey.
- Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
- The Contractor shall furnish an As Staked (or GPS/RTS Construction Machine Control) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or GPS/RTS Construction Machine Control) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
- Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
- The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
- The Contractor shall coordinate construction staking to the project with any utility work.
- Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
- The Contractor's surveyor shall submit the following fieldbooks to the Engineer:

- Horizontal Control (Primary & Secondary)
- Vertical Control (i.e. Benchmarks)
- Property Pin Ties
- Horizontal Alignment
- Grading
- Slope Staking
- Minor Structures
- Major Structures
- One fieldbook for each work category shown on this sheet
- Other Fieldbook(s): _____

Print Date: 10/22/2010	Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311DES_PH2_SurvTab.dgn	Date: _____	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	SURVEY TABULATION	BR 0252-407
Horiz. Scale: 1:1 Vert. Scale: As Noted	Comments: _____		Revised:	Designer: KRK	17783
Unit Information Unit Leader Initials	Init.: _____		Void:	Detailer: SYS	Sheet Number 43
 6300 South Syracuse Way Centennial, CO 80111				Structure Numbers	
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Sheet Revisions

Date	Description	Initials
mm/yy	XXXXXXXX	XXX

SEC. 32 & 33 T3S, R68W
SEC. 3-10, 15, 16 & 22, T4S, R68W of the 6TH P.M.,
CITY & COUNTY of DENVER, COLORADO

Farnsworth GROUP
ENGINEERS ARCHITECTS SURVEYORS SCIENTISTS
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Land Survey Control Diagram

Title Sheet

Project Number: IM 0252-394			
Project Location: I-25 & ALAMEDA INTERCHANGE			
Project Location: DENVER COLORADO			
Project Code:	Last Mod. Date:	Subset Sheets:	Sheet No.:
16311	03-06-09	1 of 6	3.01

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

LAND SURVEY CONTROL DIAGRAM
FEDERAL AID PROJECT NO. IM 0252-394

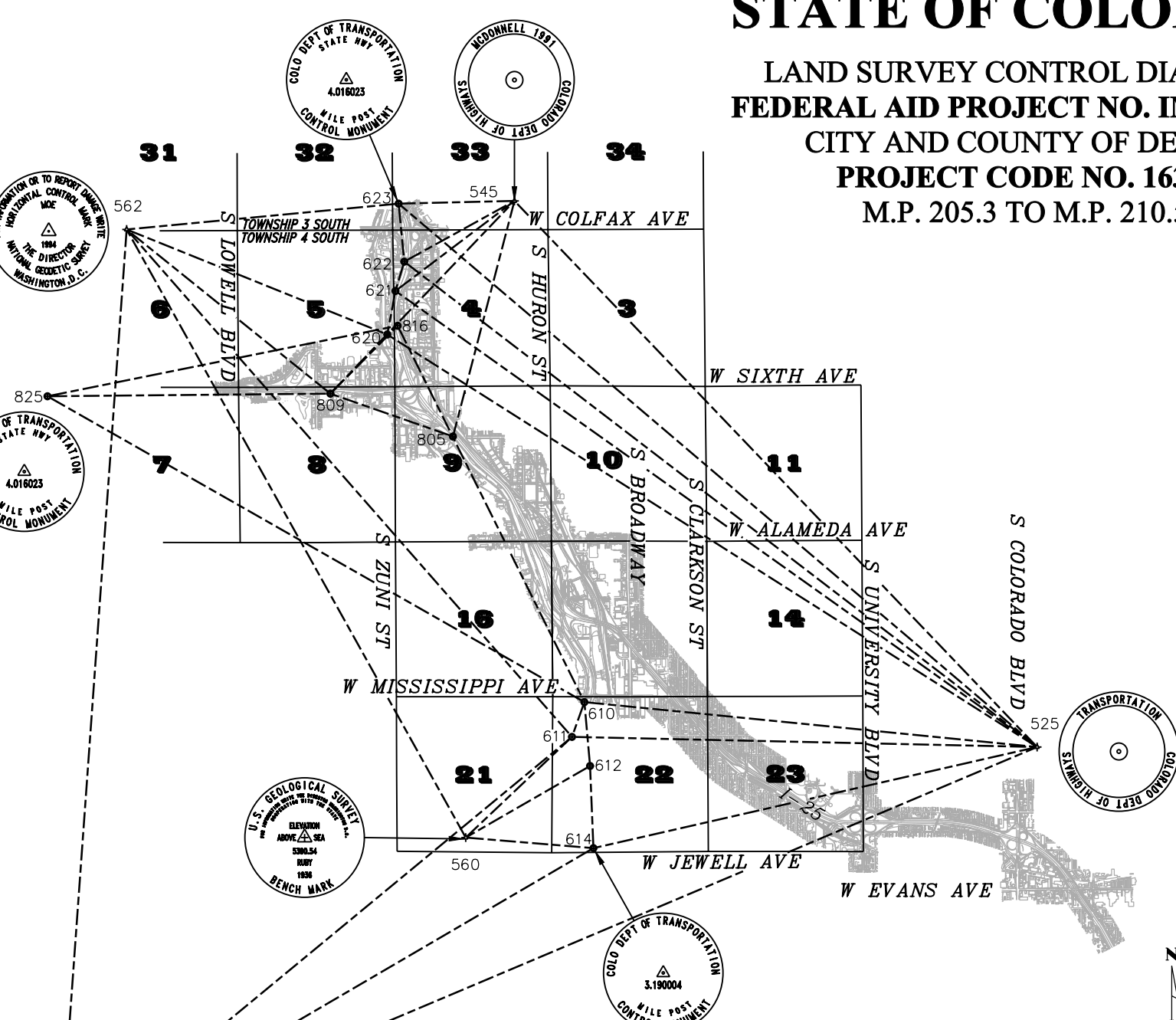
CITY AND COUNTY OF DENVER

PROJECT CODE NO. 16311

M.P. 205.3 TO M.P. 210.5

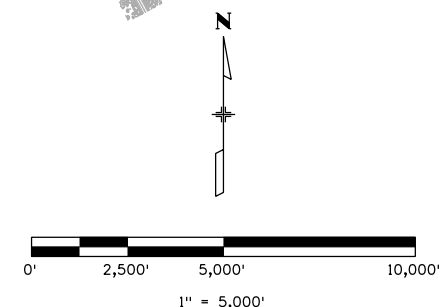
NOTES:

1. THIS SURVEY IS NOT A COMPLETE BOUNDARY SURVEY OR RIGHT-OF-WAY SURVEY AND IS PREPARED FOR CDDT PROJECT CONTROL PURPOSES ONLY.
2. NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
3. NO WARRANTY IS IMPLIED OR EXPRESSED UNLESS THIS SHEET BEARS THE ORIGINAL SIGNATURE AND SEAL OF THE PREPARER.
4. FIELD SURVEY CONTROL PRECISION MEETS OR EXCEEDS CDDT TYPE "A" SURVEY REQUIREMENTS.
5. BASIS OF BEARINGS: A BEARING OF N43°45'07"W BETWEEN COLORADO HIGH ACCURACY REFERENCE NETWORK (HARN) STATIONS "TRANSPORTATION" & "MCDONNELL" WAS UTILIZED AS THE BASIS OF BEARINGS FOR THIS SURVEY. SAID BEARING IS THE PROJECT GRID BEARING BETWEEN SAID STATIONS BASED ON NAD 83/92 MODIFIED COLORADO STATE PLANE COORDINATE SYSTEM (CENTRAL ZONE).
6. THIS SURVEY CONTROL DIAGRAM IS BASED ON THE STATE OF COLORADO HIGH ACCURACY REFERENCE NETWORK (HARN) POINTS "TRANSPORTATION", "MCDONNELL", "RUBY", "MOE" AND "LARRY" FOR HORIZONTAL VALUES.
7. BASIS OF ELEVATIONS: NATIONAL GEODETIC SURVEY BENCH MARK "K 394", ELEV = 5242.47' (NAVD '88). ELEVATIONS FOR FOUND POINTS REFLECT GPS OR RECORD VALUES.
8. STATE PLANE COORDINATES WERE MODIFIED TO THE SURFACE VIA A USER-DEFINED OBLIQUE MERCATOR PROJECTION (METHOD 2) SHOWN BELOW. THIS PROJECTION IS AVAILABLE IN TRIMBLE NAVIGATION SOFTWARE (TRIMNET ADJUSTMENT). THIS METHOD WAS SELECTED AFTER CAREFUL ANALYSES AND COMPARISON OF KNOWN SURFACE DISTANCES THROUGHOUT THE CORRIDOR. THE RESULTS INDICATE A MAXIMUM HORIZONTAL AND VERTICAL ERROR OF 0.10' WITH A 95% CONFIDENCE. THE FALSE NORTHING AND EASTING WERE UTILIZED IN ORDER TO AVOID ANY CONFUSION WITH STATE PLANE VALUES.
9. "BM SURVEY" REFERENCES THE SURVEY CONTROL DIAGRAM FOR CDDT PROJECT NUMBER IM 0252-315, PREPARED BY BENCHMARK SURVEYING.
10. "KM SURVEY" REFERENCES THE CONTROL AND MONUMENTATION SHEET FOR CDDT PROJECT NUMBER STA 0062-010, PREPARED BY KIRKHAM MICHAEL.
11. "MERRICK SURVEY" REFERENCES THE CONTROL AND MONUMENTATION SHEET FOR CDDT PROJECT NUMBER NH-IR 25-2 (174), PREPARED BY MERRICK.
12. "CDDT SURVEY" REFERENCES THOSE POINTS THAT THE CDDT REGION 6 SURVEY SECTION SUPPLIED FARNSWORTH GROUP TO INCLUDE IN THE LAND SURVEY CONTROL DIAGRAM.



CONVERSION NAD 83/92 TO PROJECT COORDINATES

PROJECTION: USER-DEFINED OBLIQUE MERCATOR
ZONE = I-25 CORRIDOR
LATITUDE OF CENTRAL POINT = N39°38'20.804470"
LONGITUDE OF CENTRAL POINT = W104°54'49.026200"
CENTRAL POINT FALSE NORTHING = 656166.6667
CENTRAL POINT FALSE EASTING = 984250.0000
AZIMUTH OF ROTATED MERIDIAN = + 00°22'11.369100"
SCALE ALONG ROTATED MERIDIAN = 1.000263782082
UNITS ARE U.S. SURVEY FEET.



SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, _____, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

TERRY R. MAW,
PLS No. 31161

Date



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Region 6

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Sheet Revisions

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SEC. 32 & 33 T3S, R68W
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PROJECT COORDINATES

POINT NUMBER	NAME	ID	NORTHING	EASTING	NAVD 88	DESCRIPTION
307	—	—	683595.996	957997.673	5213.88	RECOVERED ILLEGIBLE 3.25" ALUM. CAP IN RANGE BOX (SEE CDOT SURVEY)
525	TRANSPORTATION	AE5253	675291.658	977177.212	5447.96	FOUND STEEL ROD IN WELL
538	PT 26	—	677743.428	964086.533	5264.69	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
545	MCDONNELL	KK2099	693860.656	959400.096	5208.80	FOUND STEEL ROD IN WELL
560	RUBY	AE5252	672212.633	957742.539	5392.54	FOUND 3.75" USGS BRASS CAP IN CONCRETE, 1936
561	—	—	680265.499	962014.765	5251.06	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
562	MOE	AA7132	692889.739	946210.301	5340.51	FOUND 3.25" USGS BRASS CAP, 1994
563	LARRY	AE5255	661247.382	943932.157	5390.50	FOUND 3.5" USGS BRASS CAP, 1996
600	—	—	193797	962637.184	5258.63	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
601	—	—	194037	961015.946	5238.19	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
602	—	—	194043	960024.587	5227.87	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
603	—	—	194063	961267.061	5248.80	SHCWN FOR INFORMATION ONLY (SEE BM SURVEY)
610	—	—	3.011004	961779.226	5240.59	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (CAP STAMPED IMPROPERLY)
611	—	—	3.013006	961357.154	5244.47	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (CAP STAMPED IMPROPERLY)
612	—	—	3.015004	961971.667	5258.05	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (CAP STAMPED IMPROPERLY)
614	—	—	3.019004	962086.162	5269.32	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (CAP STAMPED IMPROPERLY)
620	—	—	4.009024	955073.769	5209.43	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP
621	—	—	4.011024	955353.369	5204.96	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP
622	—	—	4.013023	955652.191	5209.77	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP
623	—	—	4.016023	955460.086	5215.57	SET CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP
805	—	—	4.002018	957308.663	5219.39	FOUND CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (SEE MERRICK SURVEY)
809	FEDERAL	4.006029	687306.871	953140.098	5252.40	FOUND CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (SEE FRAZIER, MERRICK & KM SURVEYS)
816	—	—	4.009023	689614.885	5204.56	FOUND CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (SEE MERRICK SURVEY)
825	DEPEW	4.006056	687217.977	943517.674	5384.21	FOUND CDOT TYPE 2 MONUMENT - 3.25" ALUM. CAP (SEE KM SURVEY)



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NAD 83/92 COLORADO STATE PLANE CENTRAL ZONE

POINT NUMBER	LATITUDE (WGS 84)	LONGITUDE (WGS 84)	NORTHING (M)	EASTING (M)	HEIGHT (M)	ELEVATION (M)	CONVERGENCE	SCALE	NORTHING (USFT)	EASTING (USFT)	ELEVATION (USFT)
525	39° 41' 30.20295" N	104° 56' 17.89912" W	511250.530	962581.266	1643.389	1660.541	00° 21' 15.3" 790"	0.999988991	1677327.781	3158068.704	5447.96
545	39° 44' 34.68938" N	105° 00' 03.94511" W	516908.798	957164.209	1570.668	1587.645	00° 18' 52.75306"	0.999998617	1695891.615	3140296.242	5208.80
560	39° 41' 00.89450" N	105° 00' 26.65744" W	510312.252	956659.208	1626.789	1643.651	00° 18' 38.4286"	0.999998754	1674249.442	3138639.418	5392.54
562	39° 44' 25.77651" N	105° 02' 52.81292" W	516612.873	953145.028	1611.040	1627.791	00° 17' 06.2499"	0.999998133	1694920.734	3127109.978	5340.51
563	39° 39' 13.25681" N	105° 03' 23.93627" W	506970.906	952451.027	1626.463	1643.027	00° 16' 46.6207"	0.999982366	1663287.047	3124833.077	5390.50

PROJECT COORDINATES

POINT NUMBER	NAME	ID	NORTHING	EASTING	NAVD 88	DESCRIPTION
104	-	-	678541.674	961793.801	5237.08	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP104" (SEE CDOT SURVEY)
105	-	-	679369.078	961310.552	5242.31	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP105" (SEE CDOT SURVEY)
106	-	-	681051.141	960866.706	5227.55	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP106" (SEE CDOT SURVEY)
107	-	-	681708.471	960500.336	5222.87	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP107" (SEE CDOT SURVEY)
108	-	-	684617.162	958856.266	5235.19	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP108" (SEE CDOT SURVEY)
109	-	-	683576.363	958994.068	5221.82	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP109" IN RANGE BOX W/ "SURVEY" LID (SEE CDOT SURVEY)
110	-	-	680371.500	960171.228	5231.90	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP110" (SEE CDOT SURVEY)
111	-	-	679646.509	960679.916	5226.42	RECOVERED 3.25" ALUM. CAP "LAND CORNER CHICHESTER PLS7735 T4S R68W W1/4 E1/4 SEC15 SEC16
112	-	-	682287.537	960656.506	5225.11	RECOVERED "X" ON STONE IN RANGE BOX (SEE CDOT SURVEY)
200	-	-	679286.031	960971.074	5234.73	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP200" (SEE CDOT SURVEY)
201	-	-	679430.437	961112.239	5233.55	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP201" (SEE CDOT SURVEY)
202	-	-	679742.168	960930.214	5234.18	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP202" (SEE CDOT SURVEY)
203	-	-	680008.684	961140.610	5234.94	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP203" (SEE CDOT SURVEY)
204	-	-	680777.690	960629.364	5230.49	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP204" (SEE CDOT SURVEY)
205	-	-	682519.257	960063.573	5236.76	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP205" (SEE CDOT SURVEY)
206	-	-	682684.005	959763.606	5230.91	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP206" (SEE CDOT SURVEY)
207	-	-	682094.241	960237.805	5225.38	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP207" (SEE CDOT SURVEY)
208	-	-	682227.453	959875.389	5229.46	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP208" (SEE CDOT SURVEY)
209	-	-	682130.687	959677.716	5226.89	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP209" (SEE CDOT SURVEY)
210	-	-	682388.945	959581.235	5224.38	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP210" (SEE CDOT SURVEY)
211	-	-	682390.120	959823.052	5228.61	SET CDOT TYPE2 W/ 3.25" ALUM. CAP "CDOT CP211" (SEE CDOT SURVEY)
212	-	-	679597.138	961359.299	5254.48	RECOVERED 2.5" ALUM. CAP "NOLTE CP212" (SEE CDOT SURVEY)
213	-	-	682939.117	959375.824	5222.16	SET CDOT TYPE5 W/ 3.25" ALUM. CAP "CDOT CP213" (SEE CDOT SURVEY)
214	-	-	679865.856	961096.849	5232.87	SET CDOT TYPE6 W/ 2" ALUM. CAP "CDOT CP214" (SEE CDOT SURVEY)
215	-	-	679894.761	960963.424	5232.46	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP215" (SEE CDOT SURVEY)
216	-	-	680171.712	960657.171	5237.79	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT 216" (SEE CDOT SURVEY)
217	-	-	682224.560	959693.692	5215.23	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP217" (SEE CDOT SURVEY)
218	-	-	682367.368	959619.373	5216.29	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP218" (SEE CDOT SURVEY)
219	-	-	682360.095	959528.880	5226.28	SET PK NAIL (SEE CDOT SURVEY)
220	-	-	682149.164	960027.816	5215.24	SET 3.25" ALUM. CAP "CDOT CP220" (SEE CDOT SURVEY)
221	-	-	682527.351	960007.583	5215.77	SET 3.25" ALUM. CAP "CDOT CP221" (SEE CDOT SURVEY)
222	-	-	682114.942	960204.371	5215.87	SET 3.25" ALUM. CAP "CDOT CP222" (SEE CDOT SURVEY)
223	-	-	680372.372	960089.882	5232.69	RECOVERED 2.5" ALUM. CAP "NOLTE CP 223" (SEE CDOT SURVEY)
224	-	-	679157.188	961132.945	5220.08	SET CUT "X" IN BOULDER (SEE CDOT SURVEY)
225	-	-	679314.733	960974.116	5226.27	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP225" (SEE CDOT SURVEY)
226	-	-	680274.575	960372.650	5217.60	SET CUT "X" ON CONCRETE STEP (SEE CDOT SURVEY)
227	-	-	680050.860	960592.584	5216.34	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP227" (SEE CDOT SURVEY)
228	-	-	682202.669	959708.329	5217.80	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP228" (SEE CDOT SURVEY)
229	-	-	681490.533	960113.038	5225.77	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP229" (SEE CDOT SURVEY)
230	-	-	681181.754	960232.656	5226.86	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP230" (SEE CDOT SURVEY)
231	-	-	680999.963	960051.079	5227.46	SET CUT "X" ON CONCRETE BIKE PATH (SEE CDOT SURVEY)
232	-	-	683444.591	959193.535	5221.89	SET CDOT TYPE6 1.5" ALUM. CAP "CDOT CP232" (SEE CDOT SURVEY)
233	-	-	682540.619	959731.208	5226.40	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP233" (SEE CDOT SURVEY)
234	-	-	682877.981	959618.884	5230.32	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP234" (SEE CDOT SURVEY)
235	-	-	682960.593	959554.566	5212.64	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP235" (SEE CDOT SURVEY)
236	-	-	683606.718	959321.770	5227.53	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP236" (SEE CDOT SURVEY)
237	-	-	679660.005	962181.142	5250.15	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP237" (SEE CDOT SURVEY)
238	-	-	679399.803	962123.026	5246.97	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP238" (SEE CDOT SURVEY)
239	-	-	679865.058	961473.693	5241.17	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP239" (SEE CDOT SURVEY)
240	-	-	683141.521	960215.761	5239.88	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP240" (SEE CDOT SURVEY)
241	-	-	683006.168	959887.061	5241.56	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP241" (SEE CDOT SURVEY)
242	-	-	682652.212	960420.487	5241.79	RECOVERED CUT "X" ON CONCRETE CURB RAMP (SEE CDOT SURVEY)
243	-	-	682721.684	960448.889	5242.68	RECOVERED 1" BROKEN ILLEGIBLE YELLOW PLASTIC CAP (SEE CDOT SURVEY)
244	-	-	681211.821	960745.132	5227.56	SET CDOT TYPE6 2" ALUM. CAP "CDOT CP244" (SEE CDOT SURVEY)
245	-	-	682857.920	959329.543	5220.65	RECOVERED 0.75" REBAR (SEE CDOT SURVEY)
246	-	-	682434.336	959328.913	5222.28	SET HINGE NAIL (SEE CDOT SURVEY)
247	-	-	682241.017	960716.714	5228.24	RECOVERED 2.0" ALUM. CAP "42" (SEE CDOT SURVEY)
248	-	-	682287.895	961014.975	5227.64	SET CDOT TYPE55 BRASS PLUG "CDOT CP248" (SEE CDOT SURVEY)
249	-	-	682053.390	960467.500	5226.33	SET HINGE NAIL (SEE CDOT SURVEY)
301	-	-	679639.748	958028.338	5294.32	RECOVERED AXLE IN RANGE BOX (SEE CDOT SURVEY)
302	-	-	679643.054	959352.143	5231.82	RECOVERED 2" ALUM. CAP "KURT O LINN INC E1/16 C- -C S16 2001 PLS14112" (SEE CDOT SURVEY)
303	-	-	679644.646	960015.031	5227.53	RECOVERED AXLE IN RANGE BOX (SEE CDOT SURVEY)
306	-	-	684922.101	959316.027	5235.22	RECOVERED 2.5" ALUM. CAP "AMERICAN WEST 1/16 S9 2001 LS27269" IN RANGE BOX (SEE CDOT SURVEY)



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Region 6

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Sheet Revisions

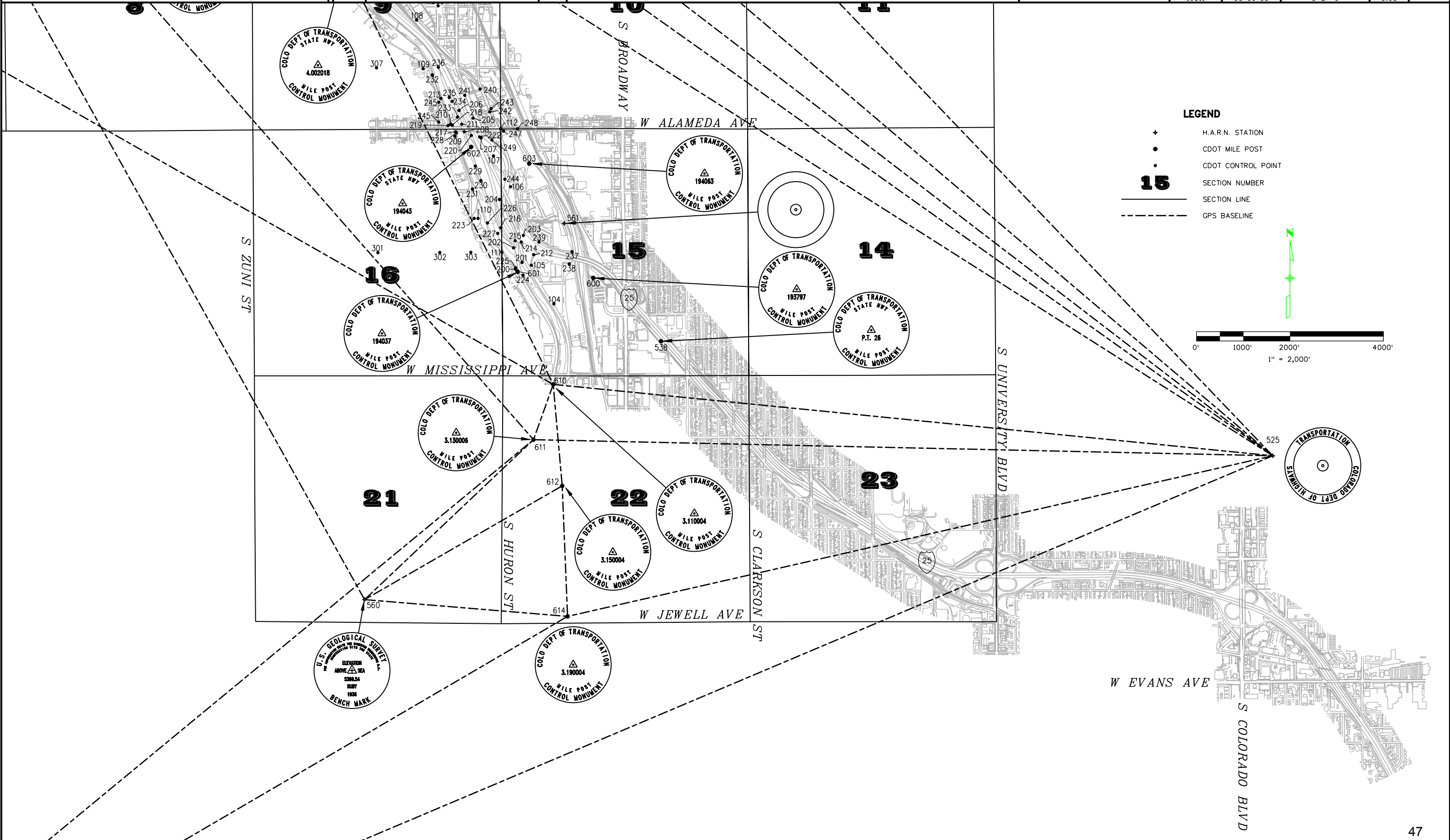
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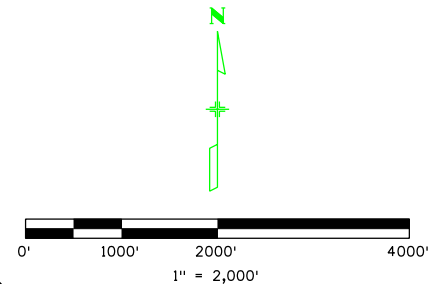
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LEGEND

- + H.A.R.N. STATION
- CDOT MILE POST
- CDOT CONTROL POINT
- 15** SECTION NUMBER
- SECTION LINE
- - - GPS BASELINE



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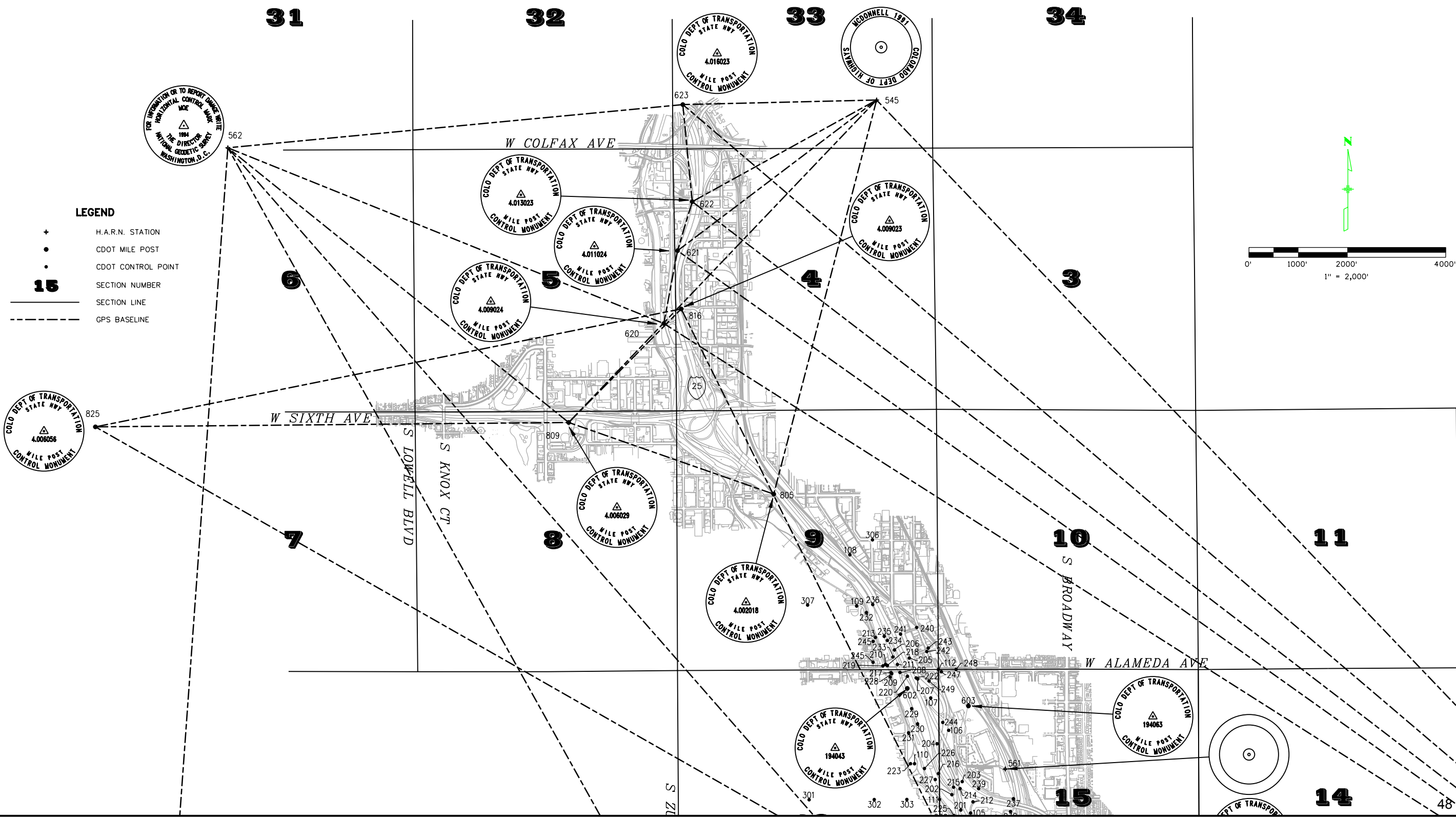
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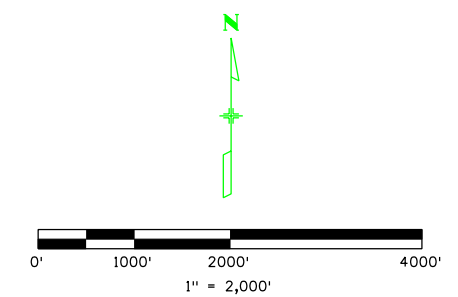
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LEGEND

- + H.A.R.N. STATION
- CDOT MILE POST
- CDOT CONTROL POINT
- 15** SECTION NUMBER
- SECTION LINE
- GPS BASELINE



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mm/yy	XXXXXXXX	XXX

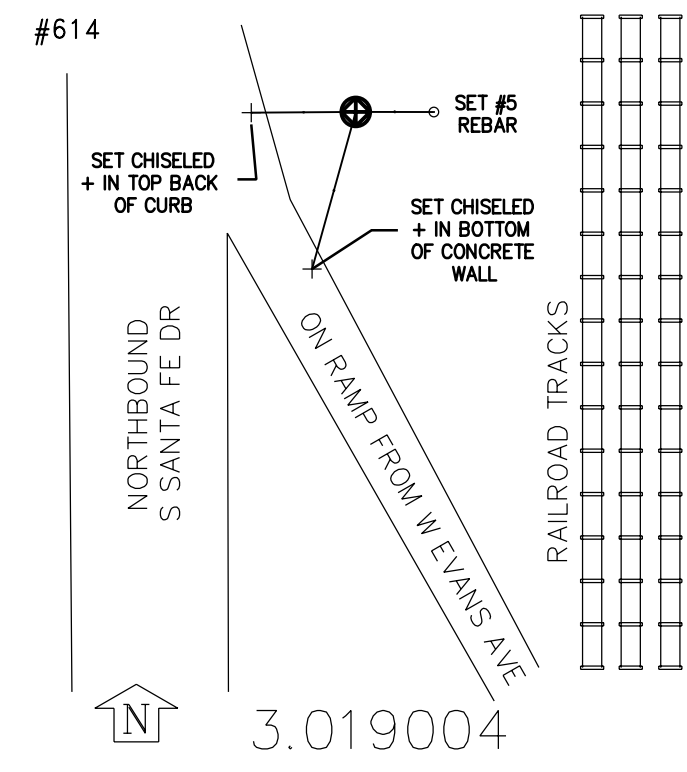
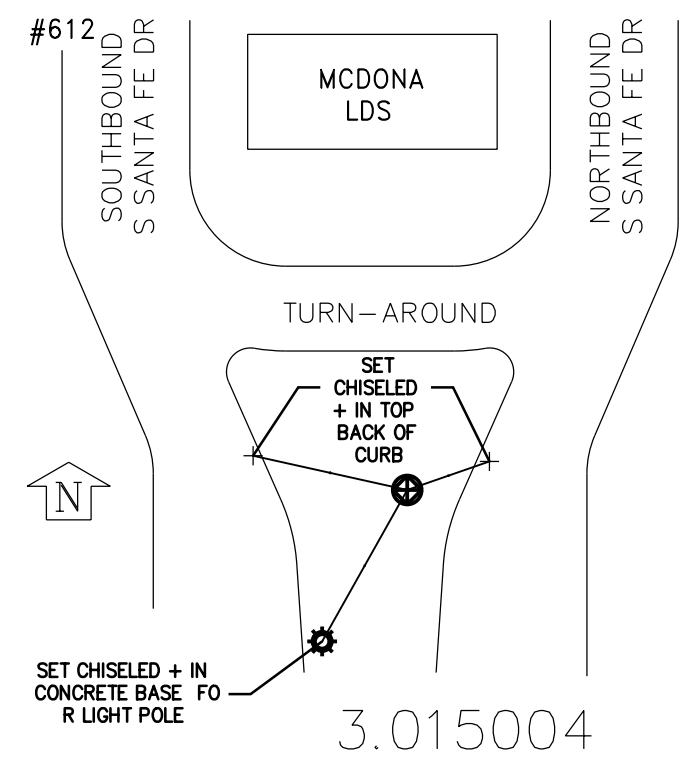
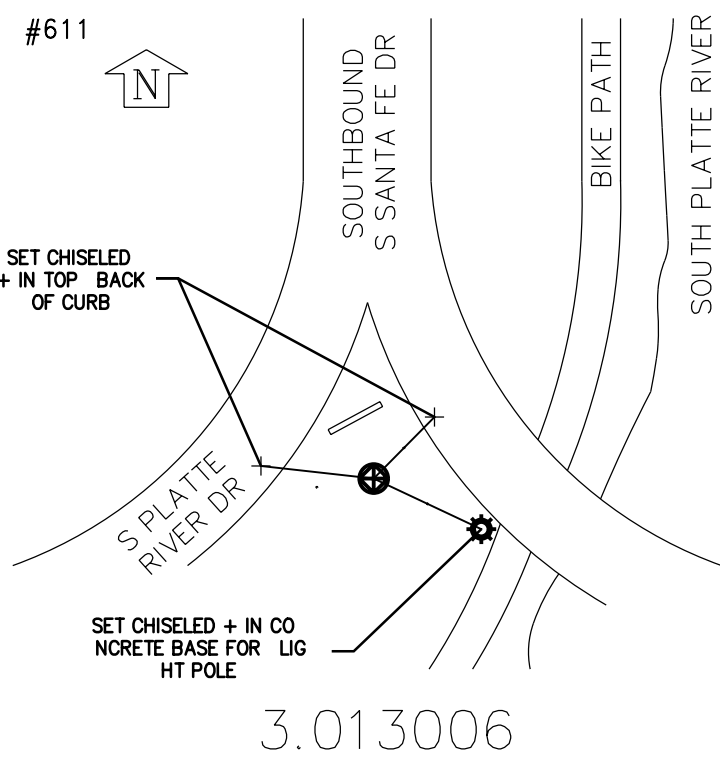
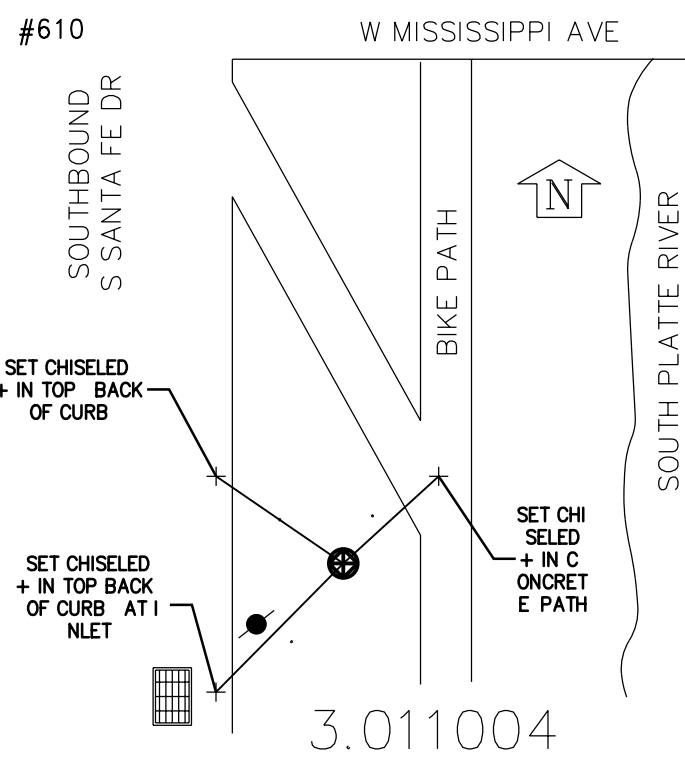
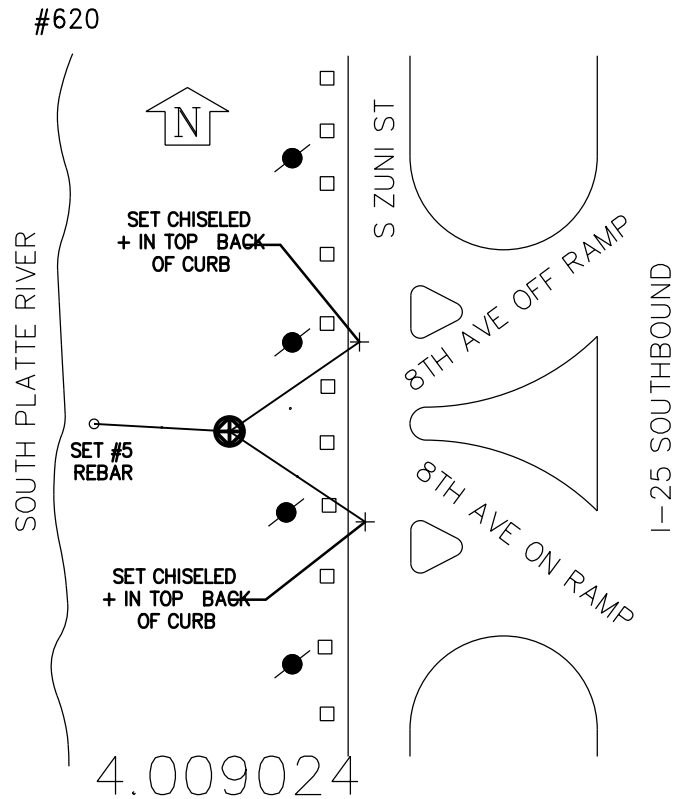
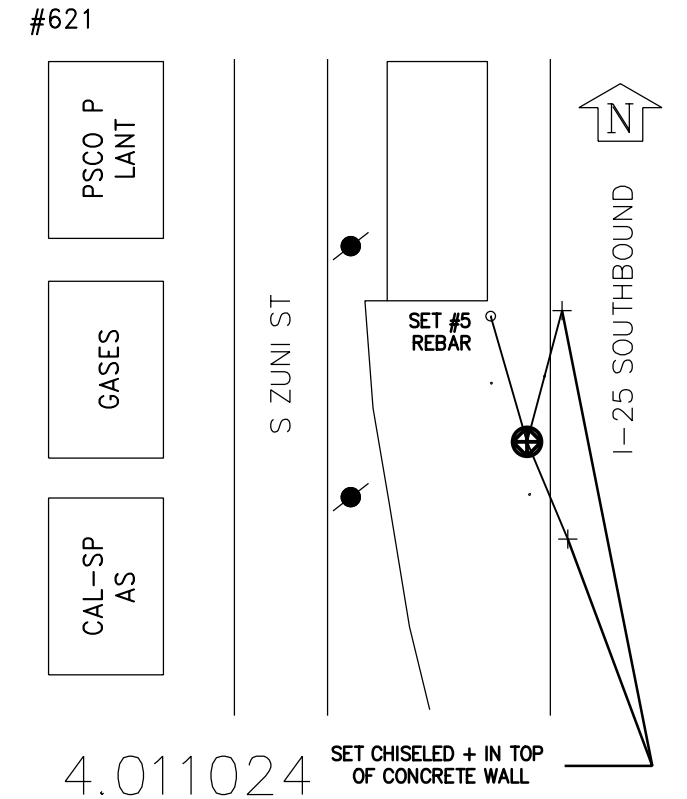
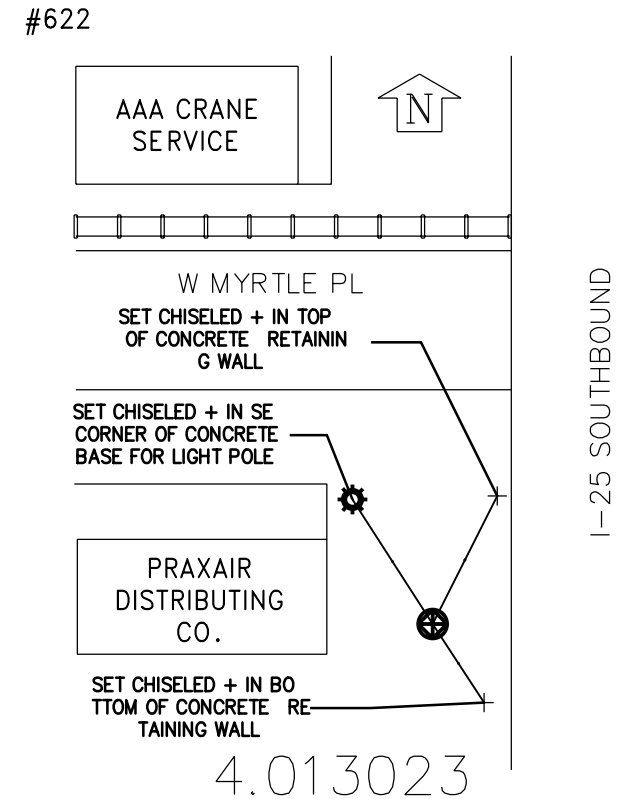
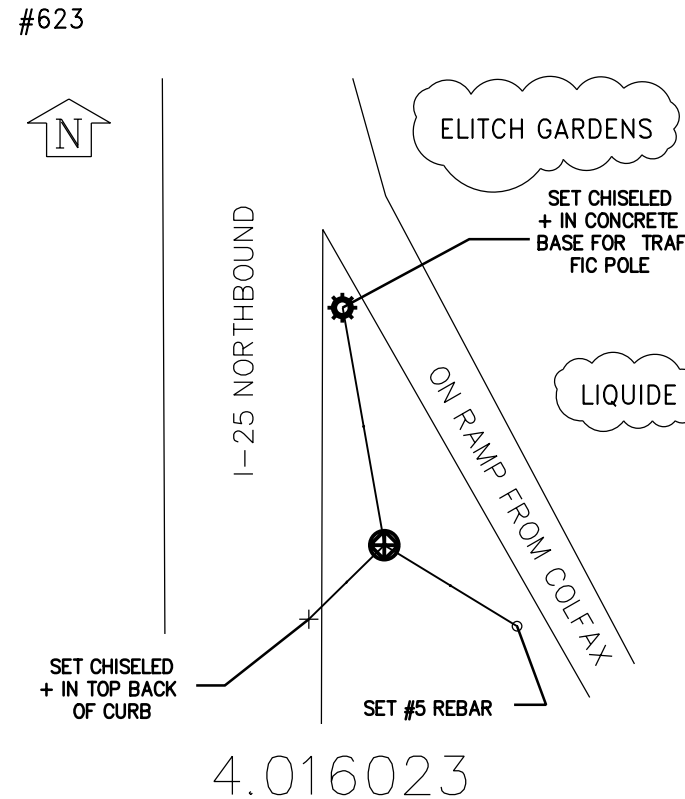
SEC. 32 & 33 T3S, R68W
SEC. 3-10, 15, 16 & 22, T4S, R68W of the 6TH P.M.,
CITY & COUNTY of DENVER, COLORADO

Farnsworth GROUP
ENGINEERS ARCHITECTS SURVEYORS SCIENTISTS
8055 EAST TUFTS AVENUE, SUITE 850
DENVER, COLORADO 80237
(303) 692-8838 / (303) 692-0470 Fax
www.f-w.com

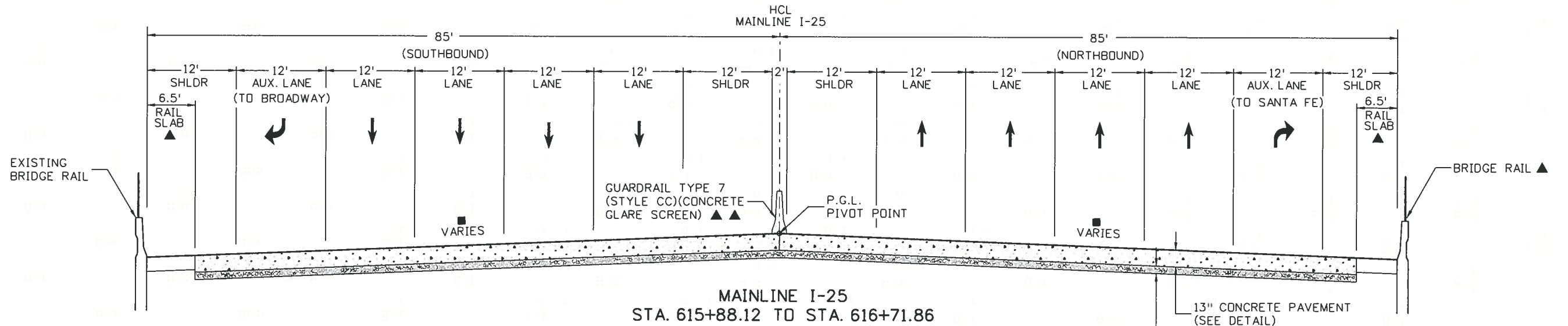
Land Survey Control Diagram

Plan Sheet

Project Number: IM 0252-394
Project Location: I-25 & ALAMEDA INTERCHANGE
Project Location: DENVER COLORADO
Project Code: Last Mod. Date Subset Sheets Sheet No.
16311 03-06-09 6 of 6 3.06

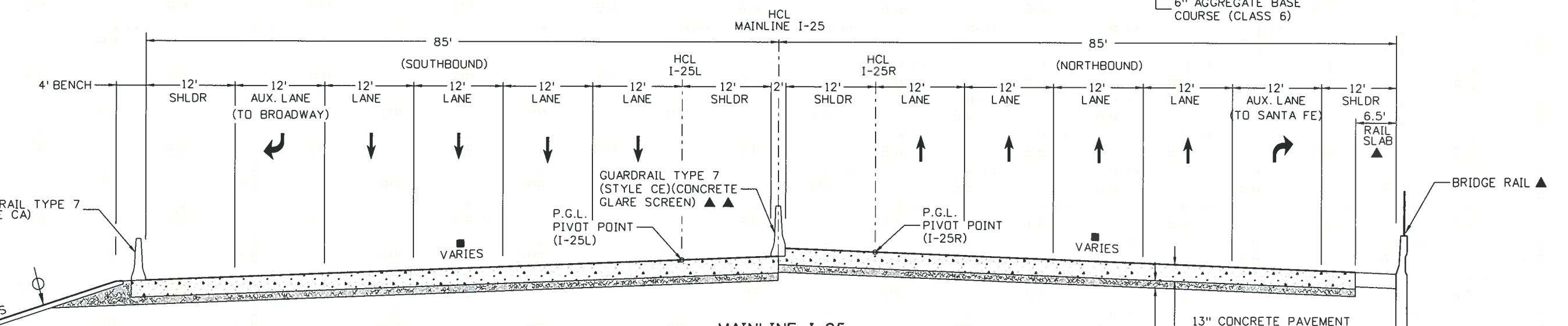


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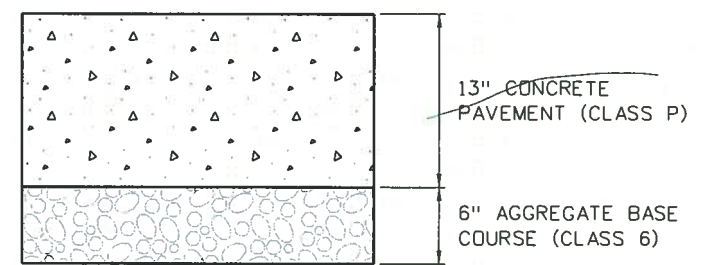
MAINLINE I-25
STA. 615+88.12 TO STA. 616+71.86

13" CONCRETE PAVEMENT
(SEE DETAIL)
6" AGGREGATE BASE
COURSE (CLASS 6)



MAINLINE I-25
STA. 616+71.86 TO STA. 617+32.34

13" CONCRETE PAVEMENT
(SEE DETAIL)
6" AGGREGATE BASE
COURSE (CLASS 6)





CONCRETE PAVEMENT DETAIL

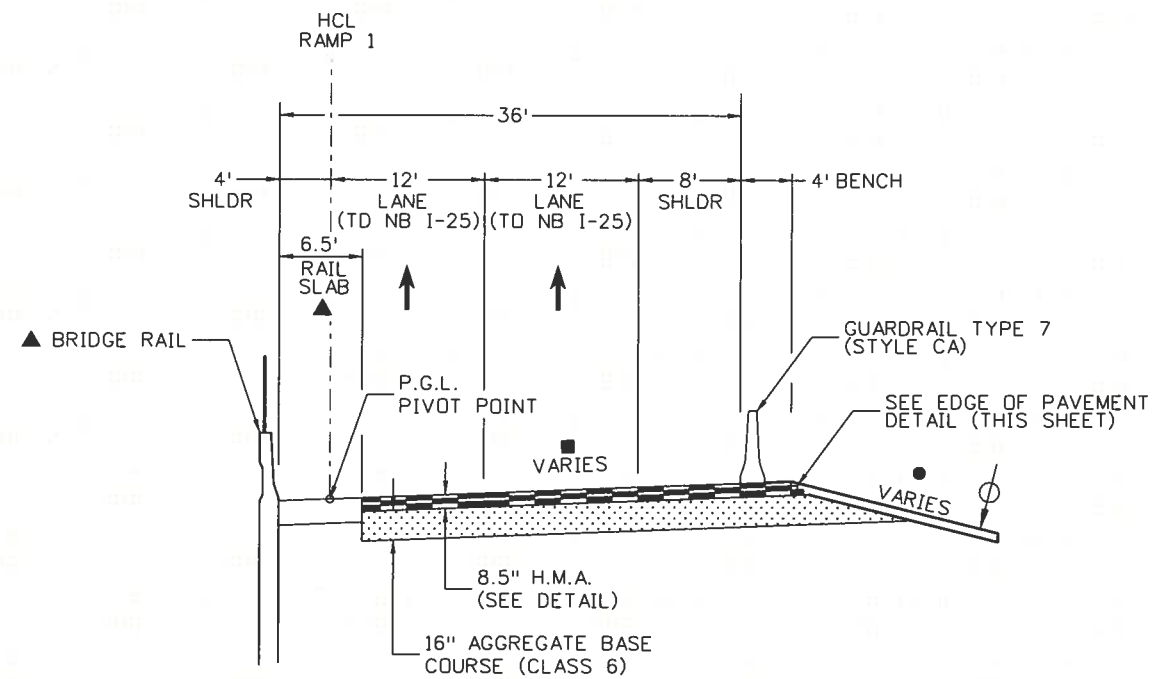
NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

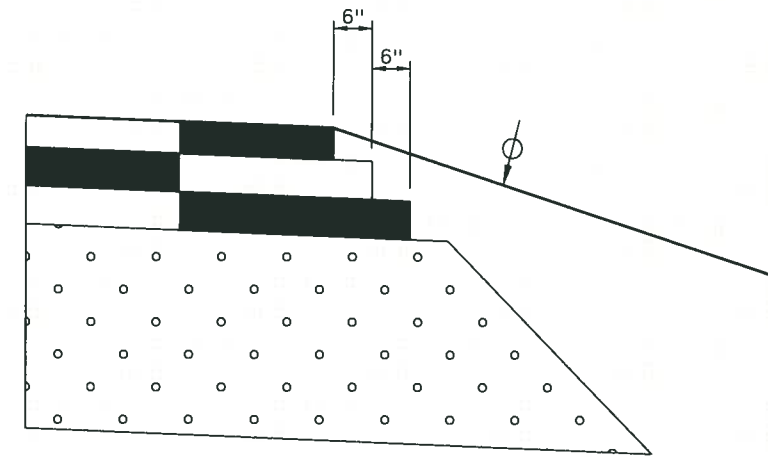
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/16/2010	Sheet Revisions			Colorado Department of Transportation			As Constructed		I-25/SANTA FE INTERCHANGE TYPICAL SECTION MAINLINE I-25		Project No./Code			
File Name: 16311DES_PH2_TypSec1.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB			No Revisions:		Designer: SPG Detailer: SYS Sheet Subset: TYPICAL		BR 0252-407			
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 6300 South Syracuse Way Centennial, CO 80111														

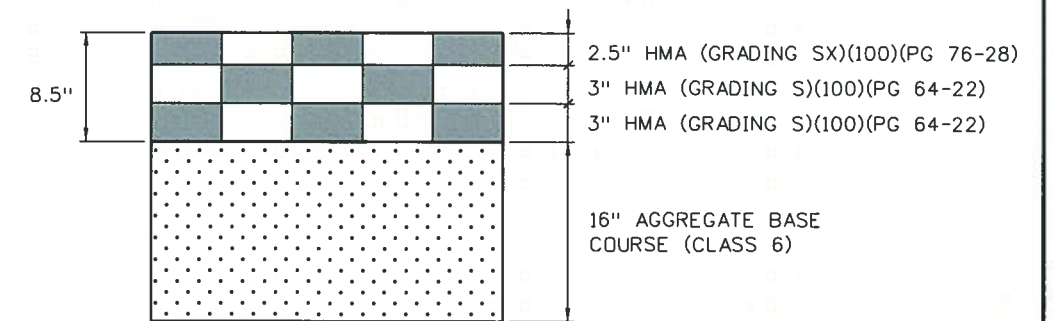
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RAMP 1
 STA. 109+91.34 TO STA. 111+61.45
 (STR. NO. F-16-XR STA. 111+61.45 TO STA. 129+60.61)



EDGE OF PAVEMENT DETAIL



RAMP 1
HMA PAVEMENT DETAIL

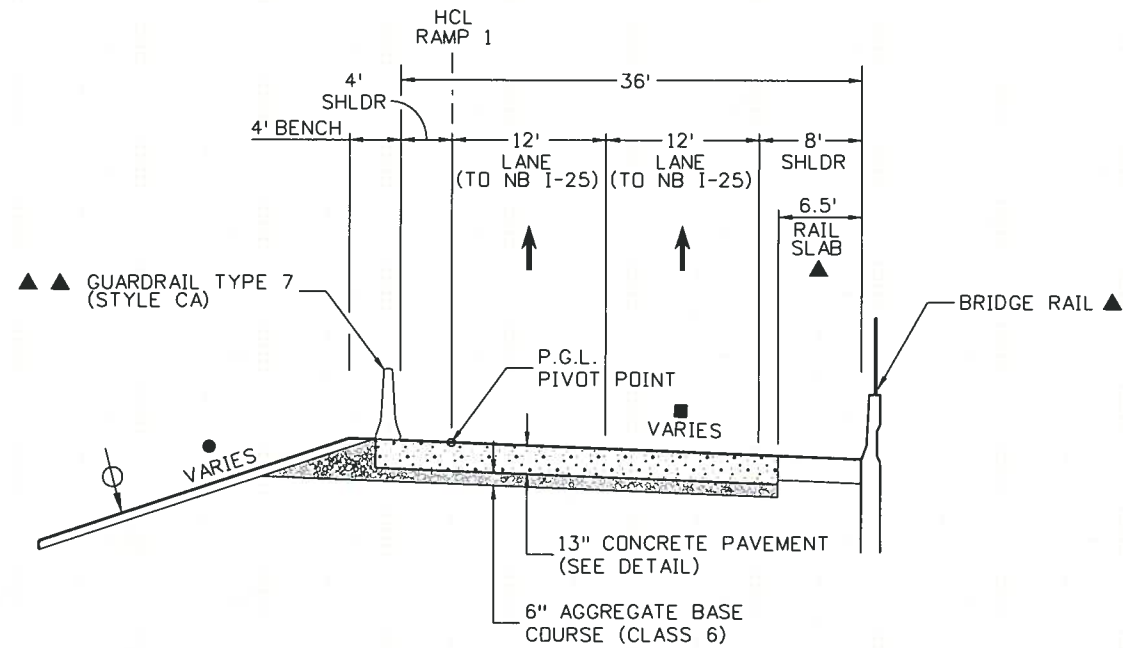
NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

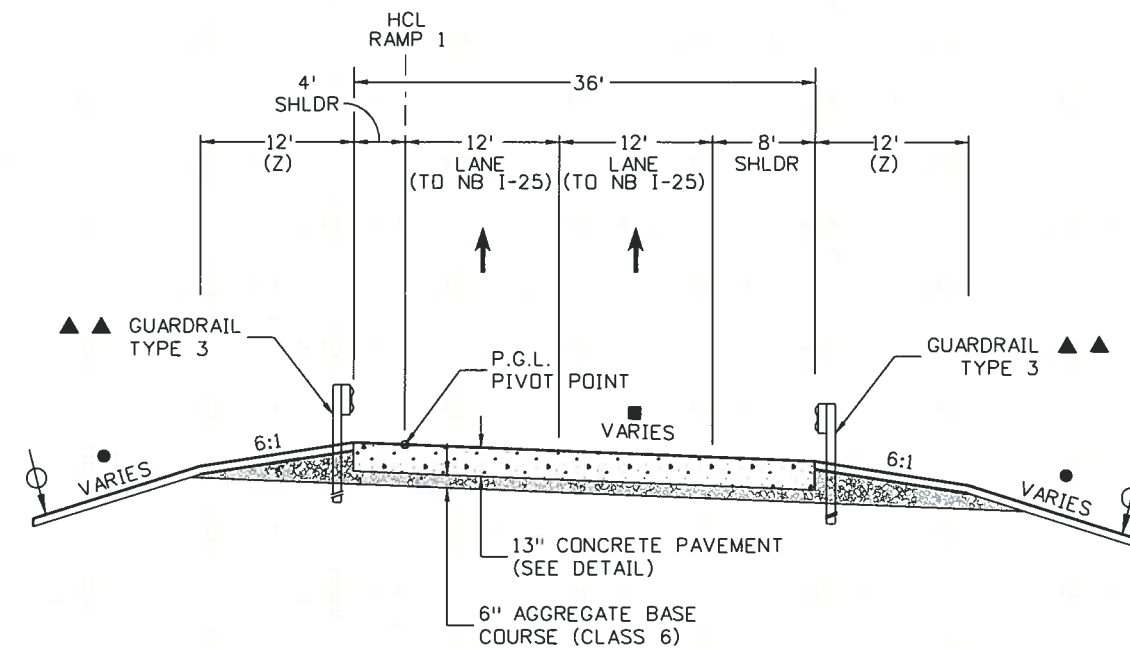
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/16/2010		Sheet Revisions			Colorado Department of Transportation			As Constructed		I-25/SANTA FE INTERCHANGE			Project No./Code	
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Vert. Scale: As Noted					Phone: 303-972-9112 FAX: 303-972-9114			Void:		Designer: SPG			Structure Numbers	
Unit Information					Region 6					Detailer: SYS			16311	
Unit Leader Initials					RLB					Sheet Subset: TYPICAL			Subset Sheets: TY-3 of 18	
FELSBURG HOLT & ULLEVIG					25 years of engineering paths to transportation solutions								Sheet Number 52 A	

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RAMP 1
STA. 130+54.11 TO STA. 131+91.17

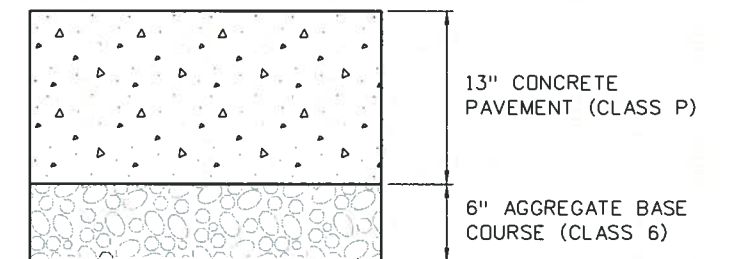


RAMP 1
STA. 132+40.00 TO STA. 134+40.00

NOTES:

- BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- SEE GRADING PLANS FOR SLOPE TREATMENT.

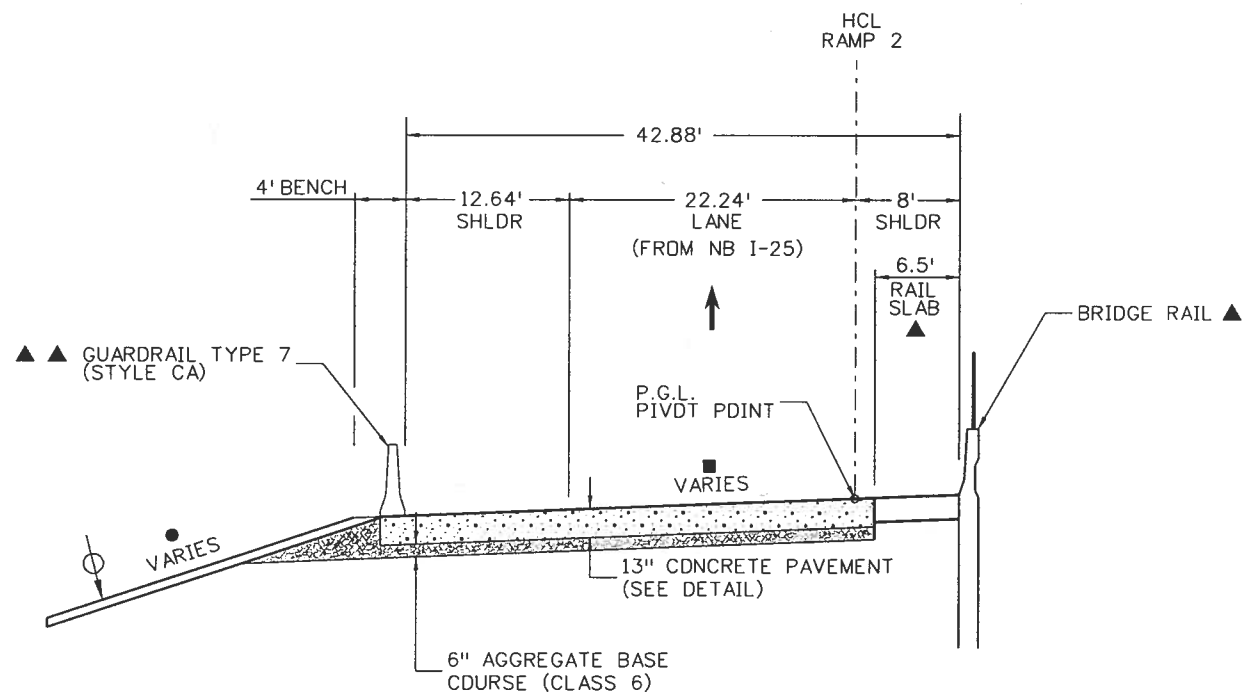
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- SEE RETAINING WALL PLANS
- SEE ROADWAY PLANS FOR LIMITS OF BARRIER



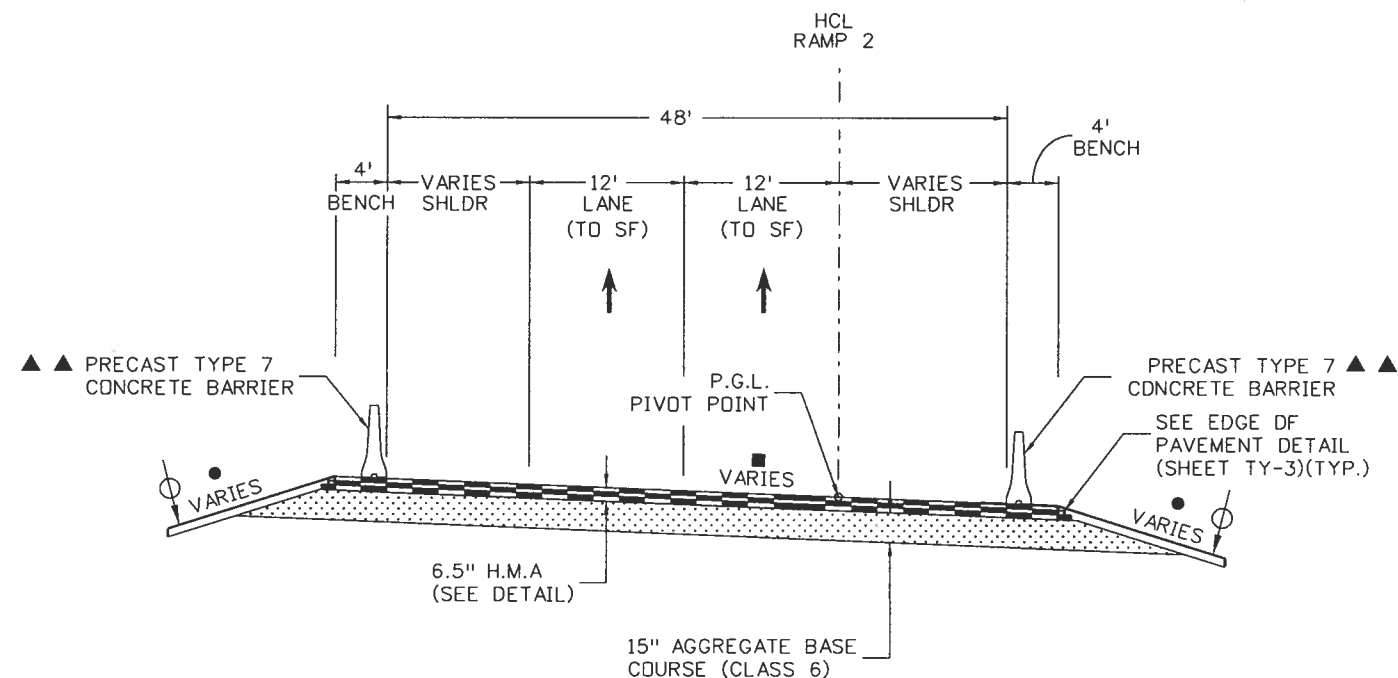
RAMP 1
CONCRETE PAVEMENT DETAIL

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Horiz. Scale: NTS Vert. Scale: As Noted	12/3/2010	REISSUED SHEET	SPG			Revised:				16311	
Unit Information Unit Leader Initials						Void:				Sheet Number 53 A	
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions				RLB							

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RAMP 2
STA. 208+00.00

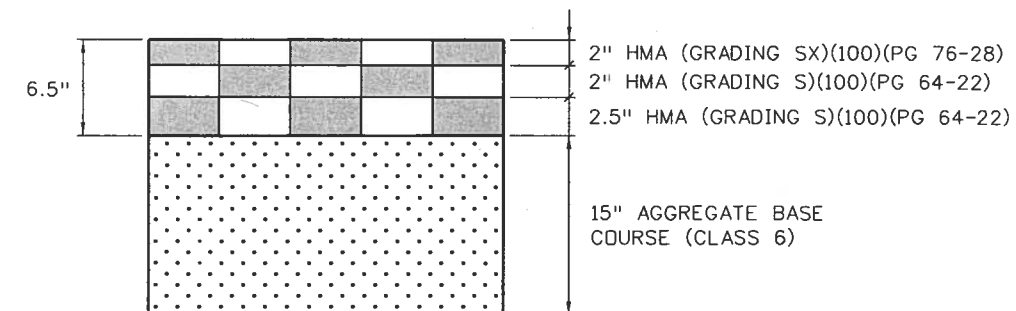


RAMP 2
STA. 208+43.95 TO STA. 208+96.50

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

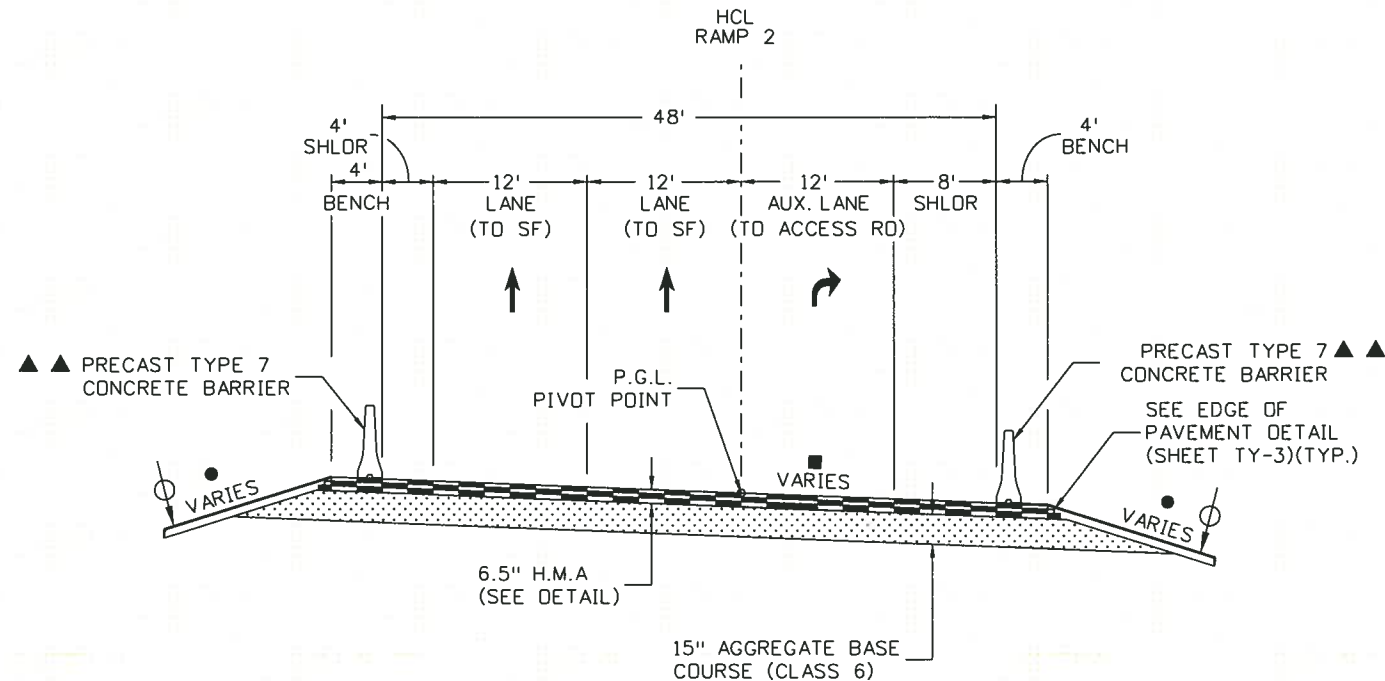
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



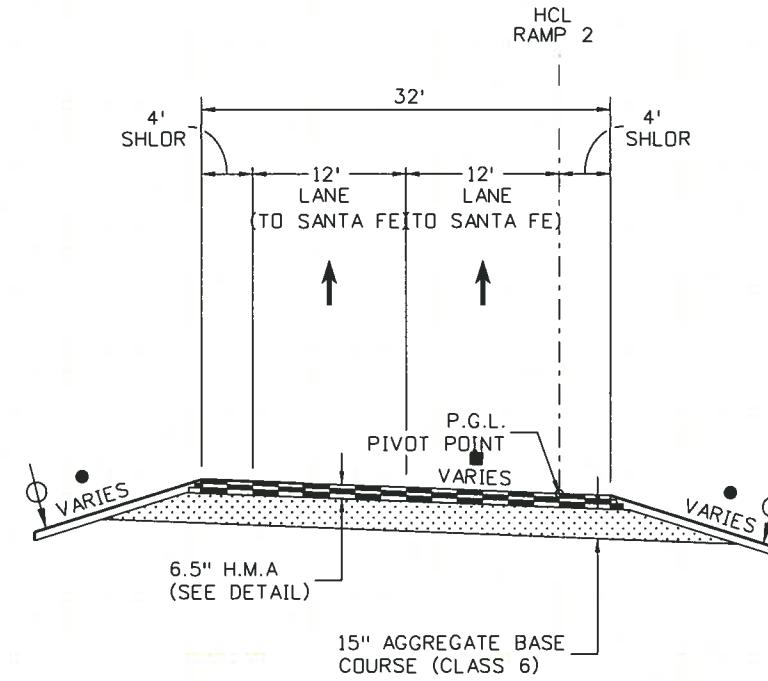
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HMA PAVEMENT DETAIL

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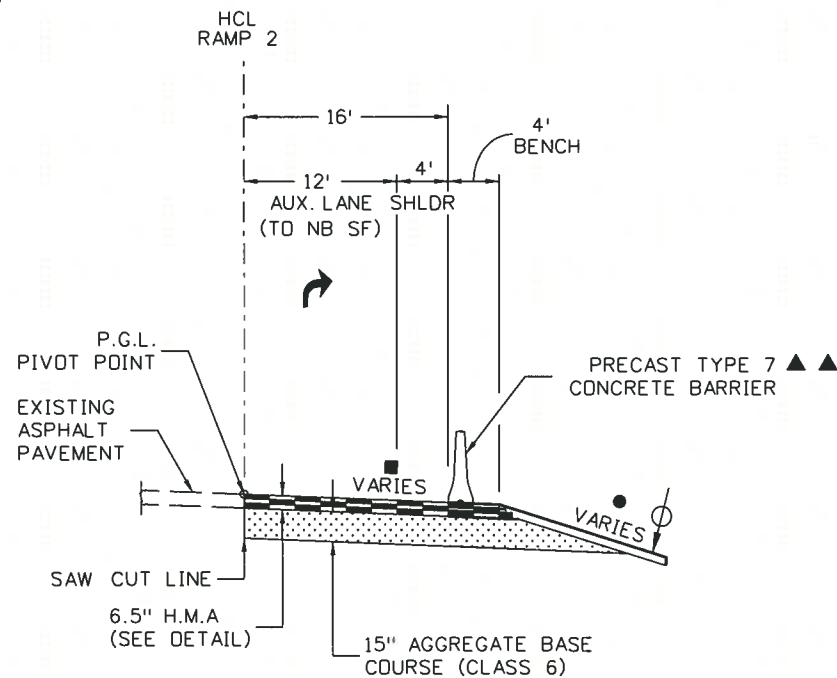
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Unit Information Unit Leader Initials				RLB		Void:		Sheet Subset: TYPICAL		Structure Numbers		
FELSBURG 6300 South Syracuse Way HOLT & Centennial, CO 80111 ALLEYIG 25 years of engineering paths to transportation solutions								Subset Sheets: TY-6 of 18		Sheet Number 55 A		



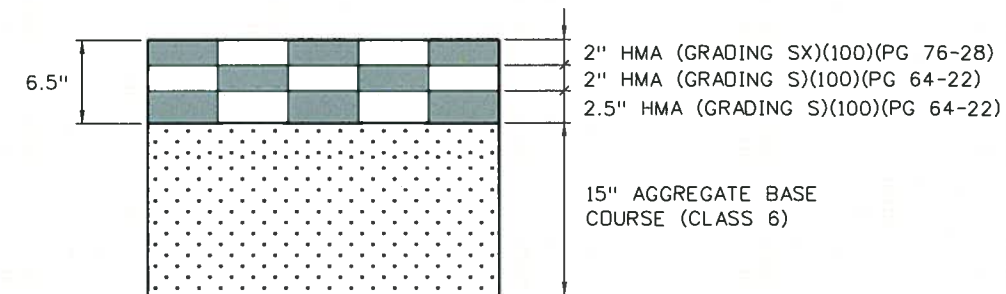
RAMP 2
STA. 210+74.24 TO STA. 212+66.96



RAMP 2
STA. 214+38.95 TO STA. 215+88.44



RAMP 2
STA. 217+21.63 TO STA. 219+04.88





RAMP 2
HMA PAVEMENT DETAIL

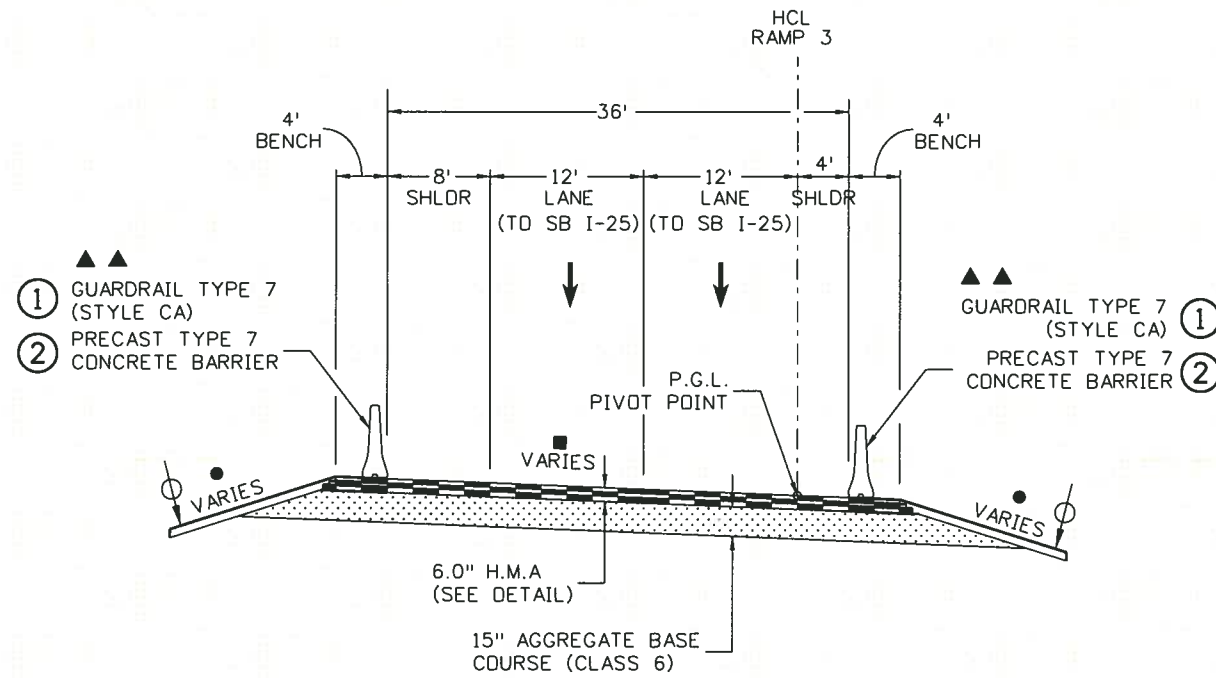
NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

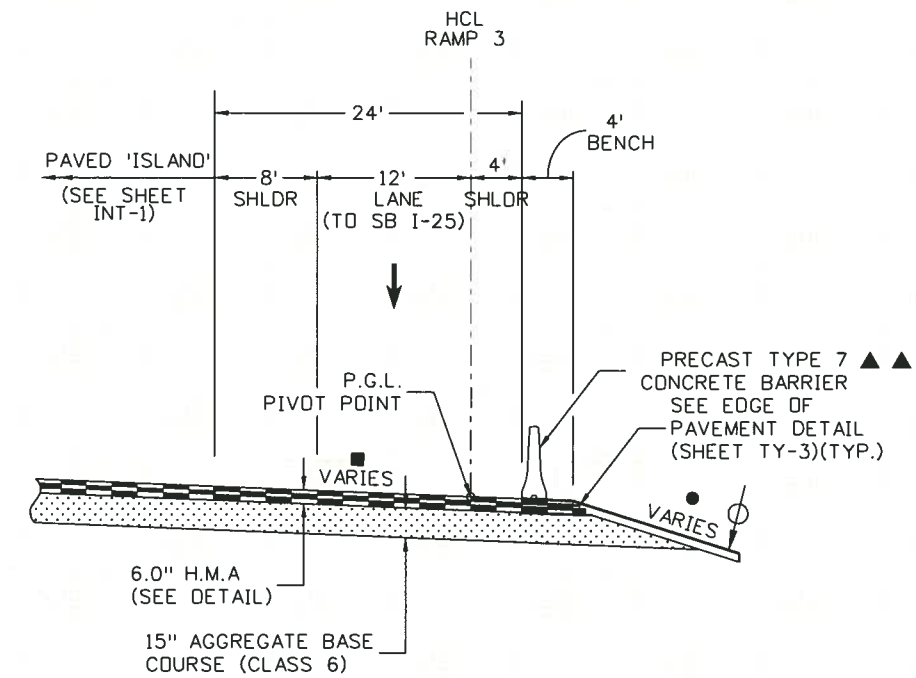
- ⊙ 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/17/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE TYPICAL SECTION RAMP 2		Project No./Code		
File Name: 16311DES_PH2_TypSec7.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB		No Revisions:		Designer: SPG Detailer: SYS Sheet Subset: TYPICAL		IM 0254-394		
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Unit Information Unit Leader Initials						Void:				Subset Sheets: TY-7 of 18		Sheet Number 56 A
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions												

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RAMP 3
 STA. 303+02.72 TO STA. 306+09.95 ①
 STA. 306+09.95 TO STA. 307+94.37 ②

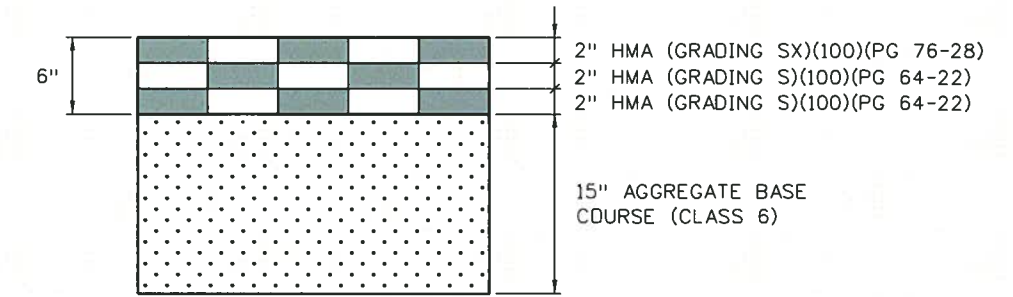


RAMP 3
 STA. 308+33.13 TO STA. 309+57.61




NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

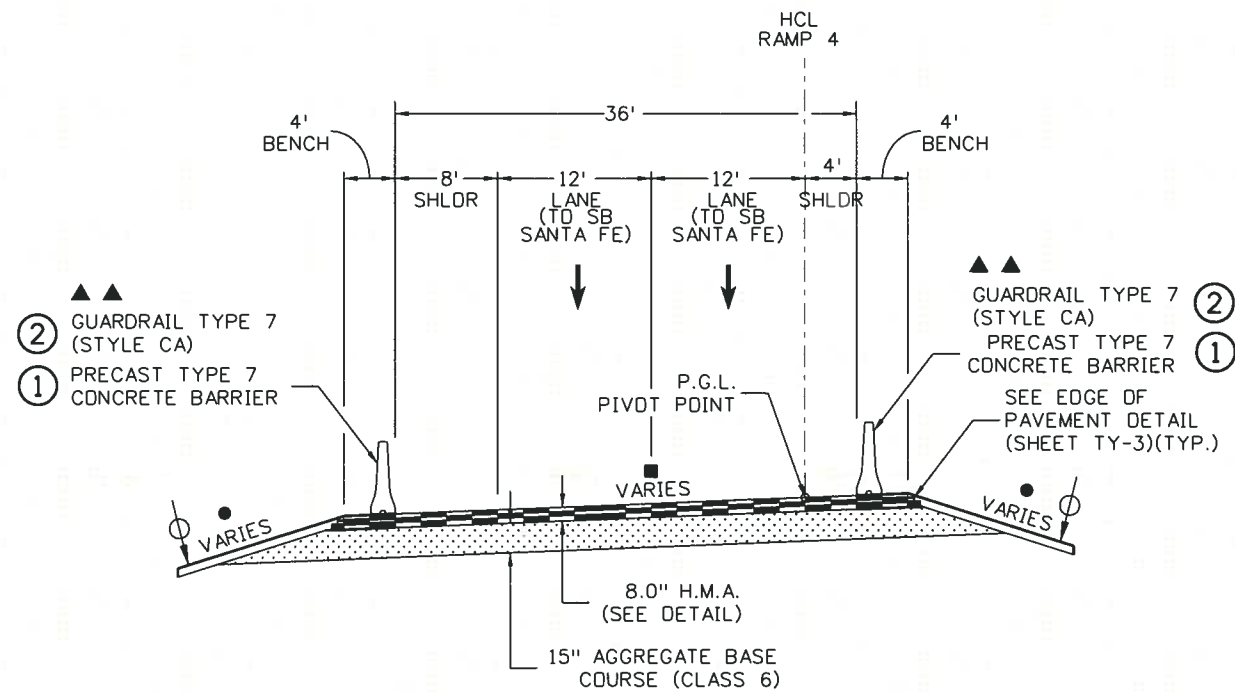


RAMP 3
HMA PAVEMENT DETAIL

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Unit Information Unit Leader Initials						Void:		Detailer: SYS		Sheet Number 57 A	
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions						Sheet Subset: TYPICAL Subset Sheets: TY-8 of 18					

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NOTE: RAMP 4 PLANS ARE FOR INFORMATION ONLY - RAMP 4 TO BE CONSTRUCTED BY OTHERS.

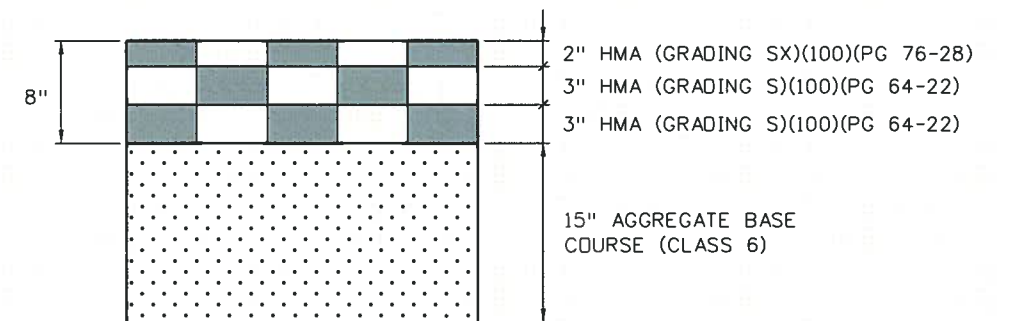


- RAMP 4**
- ① STA. 404+27.16 TO STA. 411+27.94 (HMA PAVEMENT)(SEE SHEET R4PL-2)
 - ② STA. 411+27.94 TO STA. 412+62.44 (CONCRETE PAVEMENT-SHEET TY-10)(SEE SHEET R4PL-2)




NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

- ⊕ 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

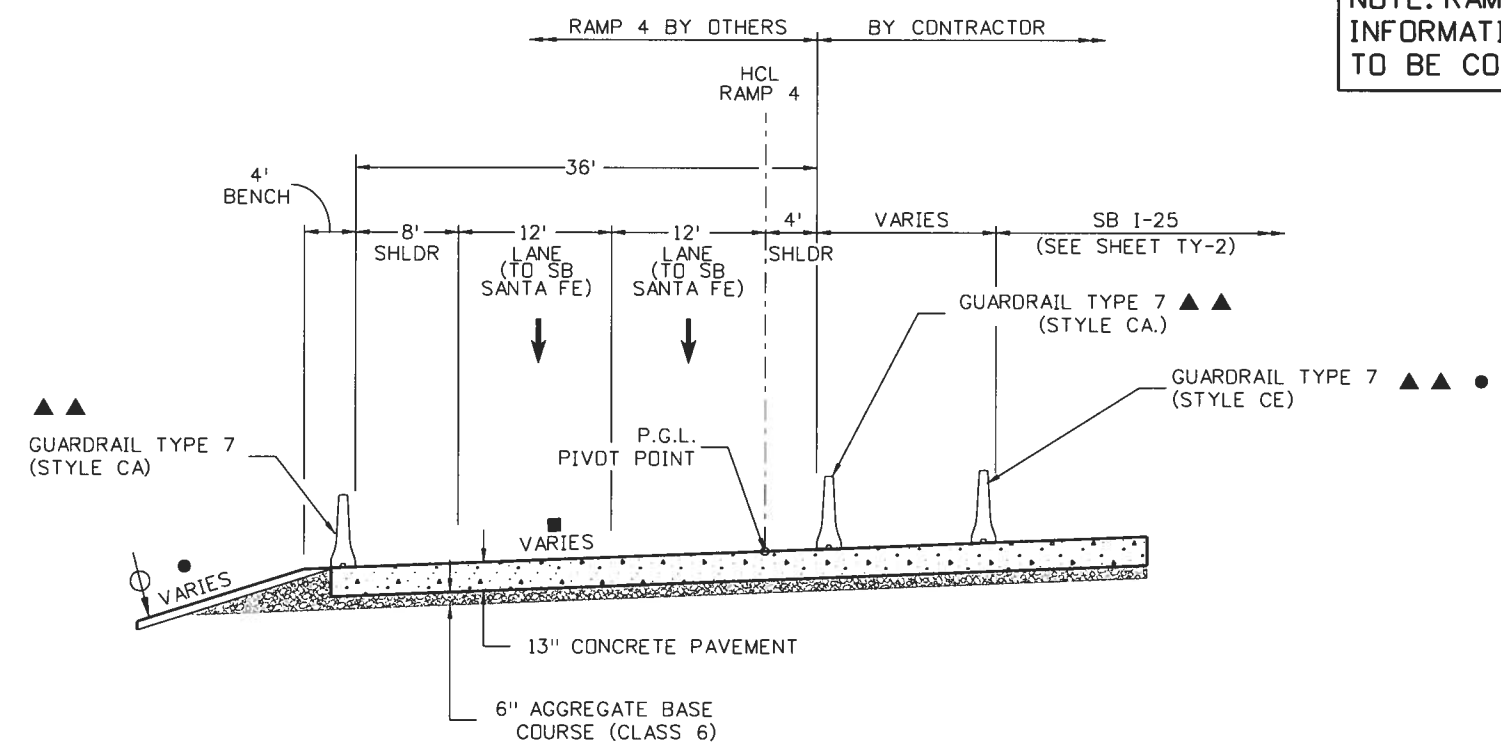


**RAMP 4
HMA PAVEMENT DETAIL**

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Unit Information Unit Leader Initials						Void:				Subset Sheets: TY-9 of 18		Sheet Number 58 A	
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions													

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NOTE: RAMP 4 PLANS ARE FOR INFORMATION ONLY - RAMP 4 TO BE CONSTRUCTED BY OTHERS.

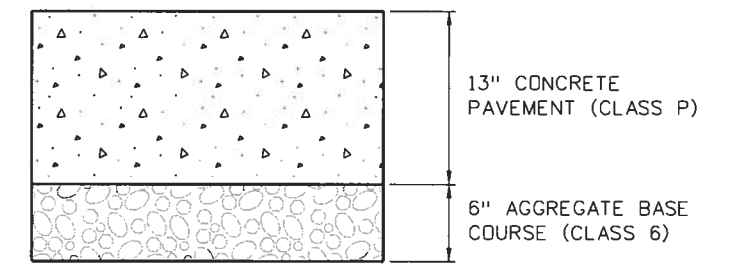


RAMP 4
STA. 412+62.44 TO STA. 415+91.51 (BEGIN CONCRETE PAVEMENT AT STA. 411+27.94)(SEE SHEET R4PL-2)

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

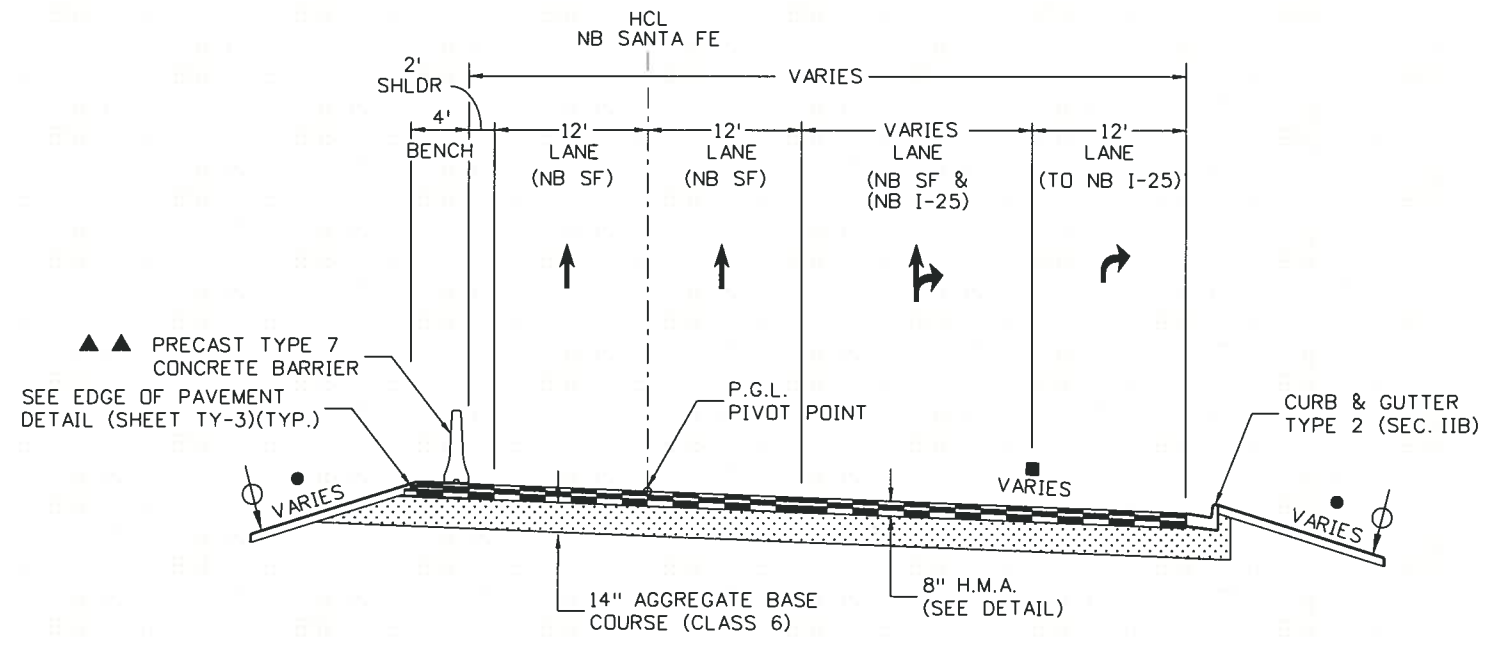
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



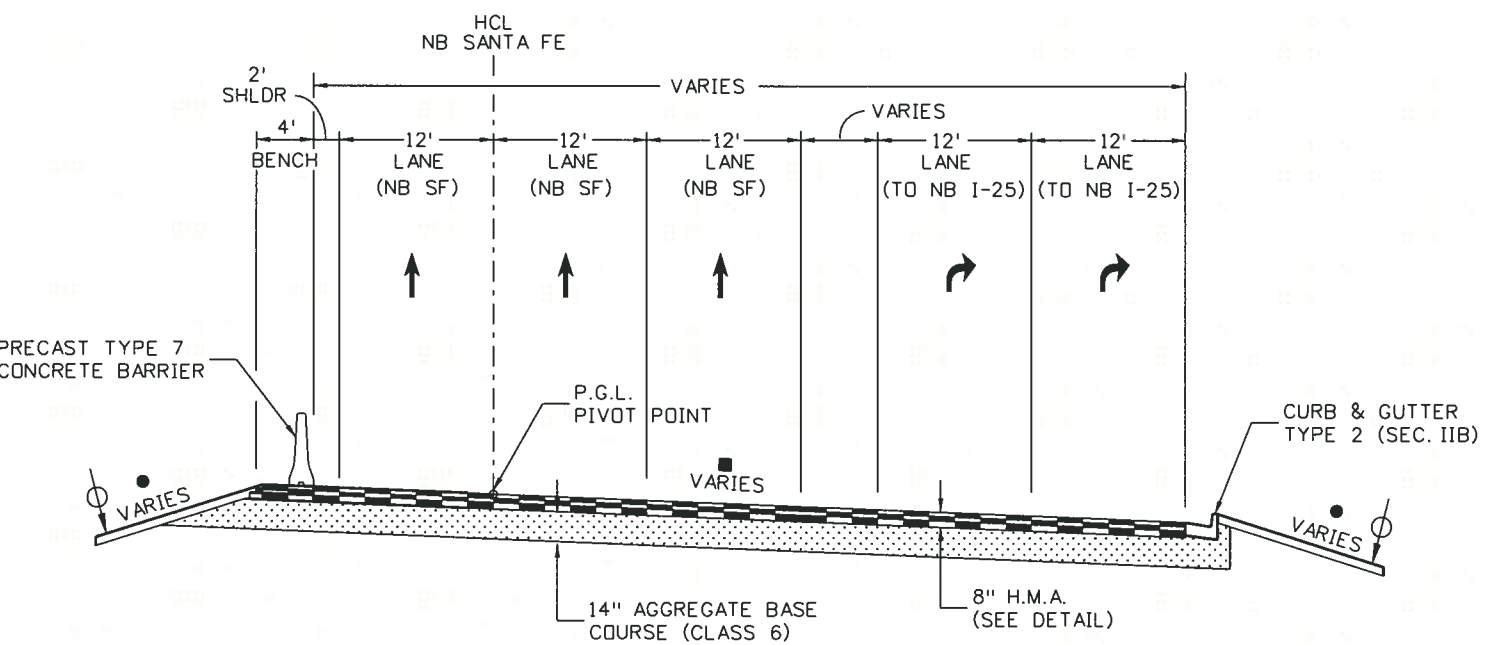
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CONCRETE PAVEMENT DETAIL

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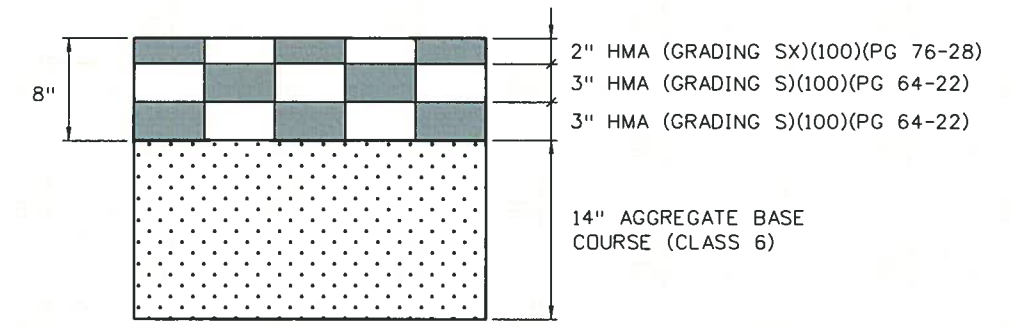
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NB SANTA FE
STA. 712+52.70 TO STA. 713+59.98



NB SANTA FE
STA. 713+59.98 TO STA. 714+50.00



SANTA FE
HMA PAVEMENT DETAIL

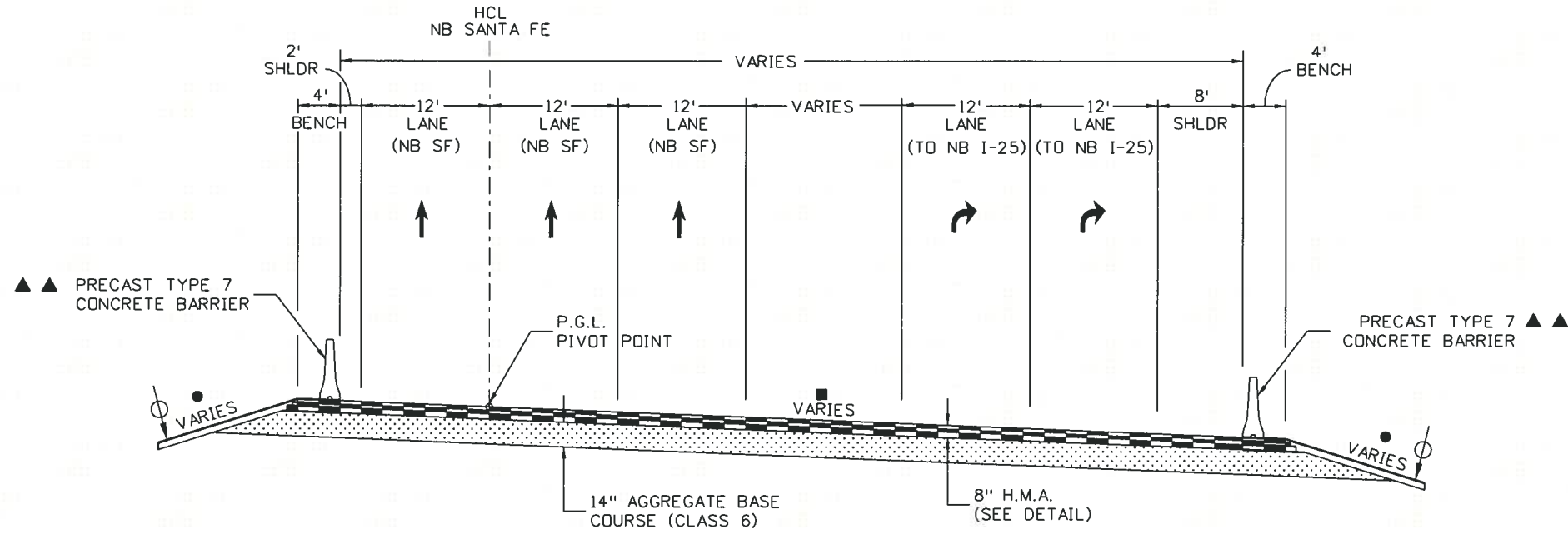
NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

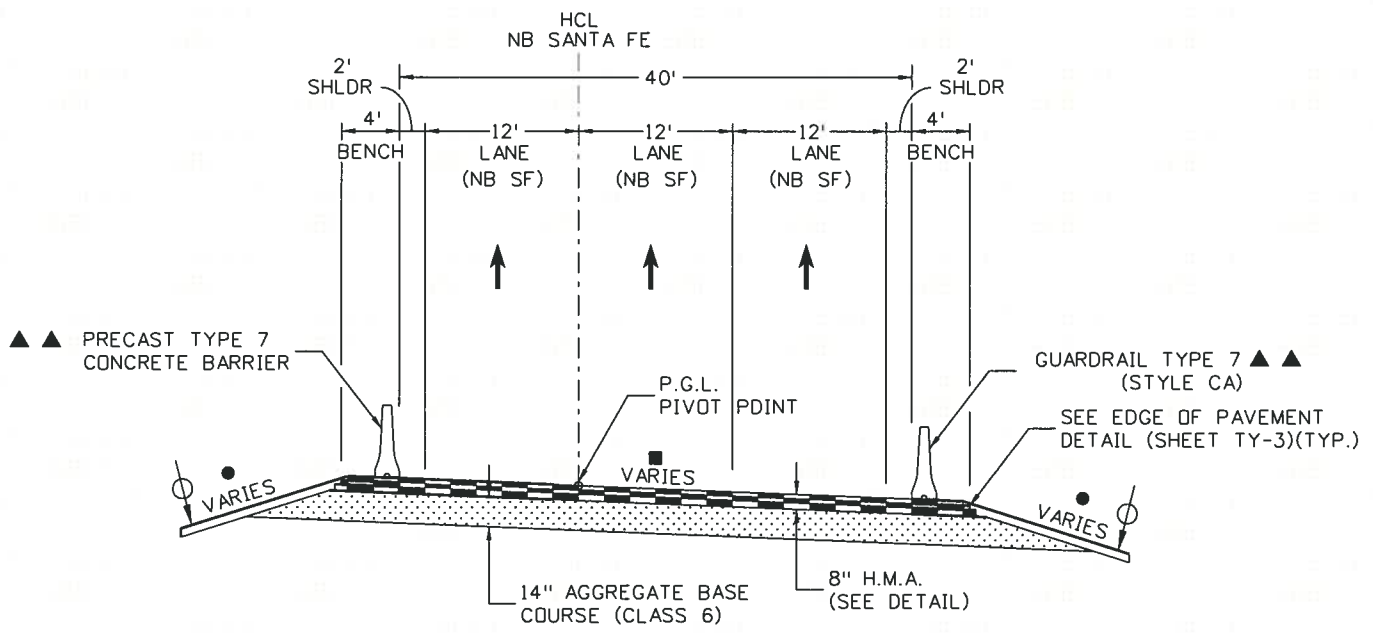
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/17/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed	I-25/SANTA FE INTERCHANGE TYPICAL SECTION NB SANTA FE		Project No./Code
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Unit Information				RLB		Void:	Sheet Subset: TYPICAL	Subset Sheets: TY-11 of 18	Sheet Number 60 A

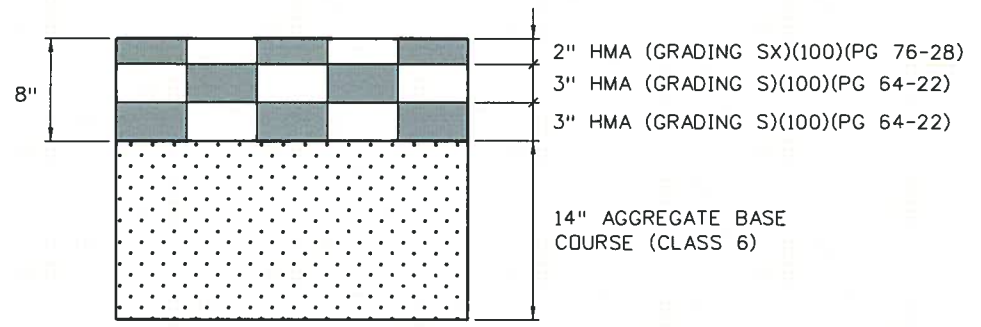
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NB SANTA FE
STA. 714+68.75 TO STA. 716+45.67



NB SANTA FE
STA. 717+02.13 TO STA. 719+49.18



SANTA FE
HMA PAVEMENT DETAIL

- NOTES:
- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
 - 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.
- 4" TOPSOIL DEPTH
 - SEE GRADING PLANS FOR ADDITIONAL INFORMATION
 - SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
 - ▲ SEE RETAINING WALL PLANS
 - ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/17/2010
 File Name: 16311DES_PH2_TypSec12.dgn
 Horiz. Scale: NTS Vert. Scale: As Noted
 Unit Information Unit Leader Initials
 FELSBURG 6300 South Syracuse Way
 HOLT & Centennial, CO 80111
 ULLFVIG 25 years of engineering paths to transportation solutions

Sheet Revisions		
Date:	Comments	Init.
12/3/2010	REISSUED SHEET	SPG

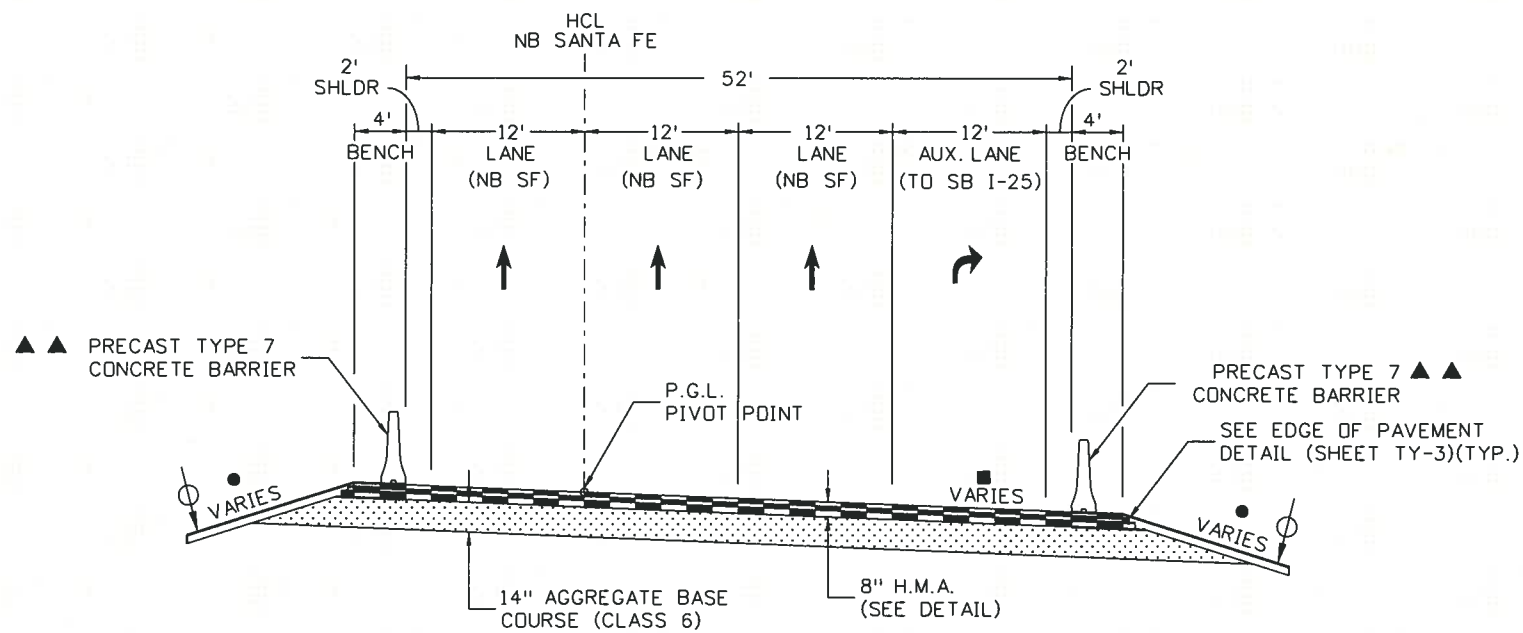
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

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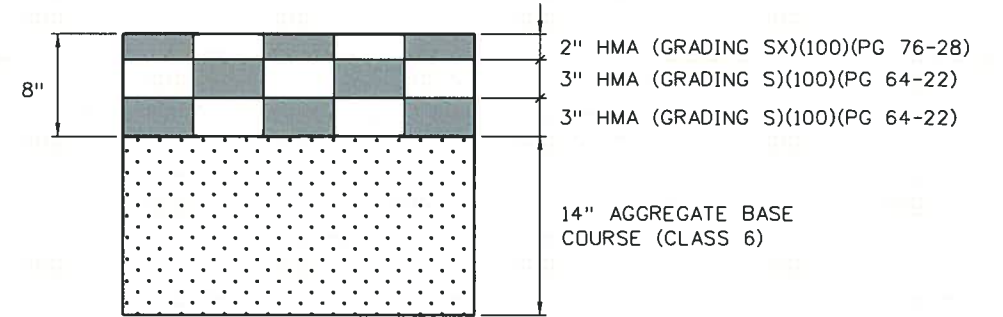
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Project No./Code
 IM 0254-394
 16311
 Sheet Number 61 A

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NB SANTA FE
STA. 720+75.37 TO STA. 722+83.92



SANTA FE
HMA PAVEMENT DETAIL

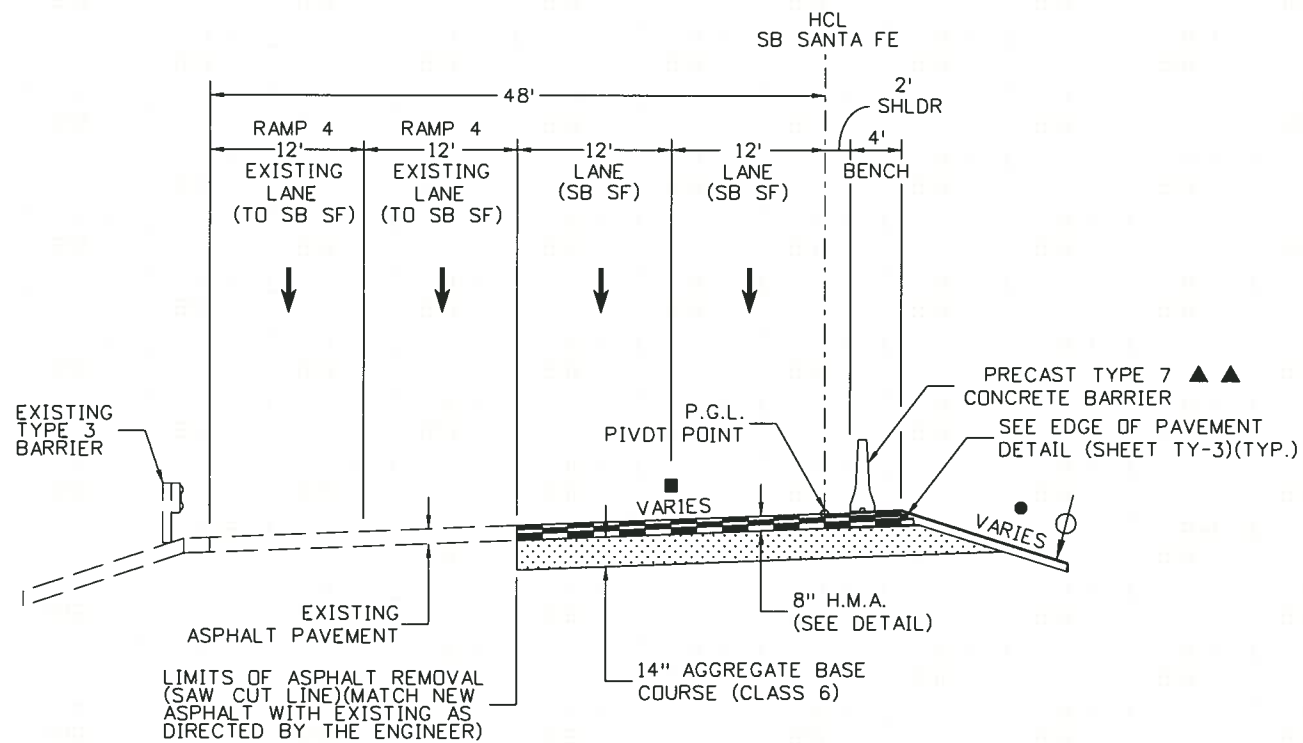
NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER

Print Date: 11/17/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
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Unit Information					Region 6	Revised:	Designer: SPG	Structure Numbers
Unit Leader Initials				RLB	Void:	Detailer: SYS	Subset Sheets: TY-13 of 18	
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions						Sheet Subset: TYPICAL		

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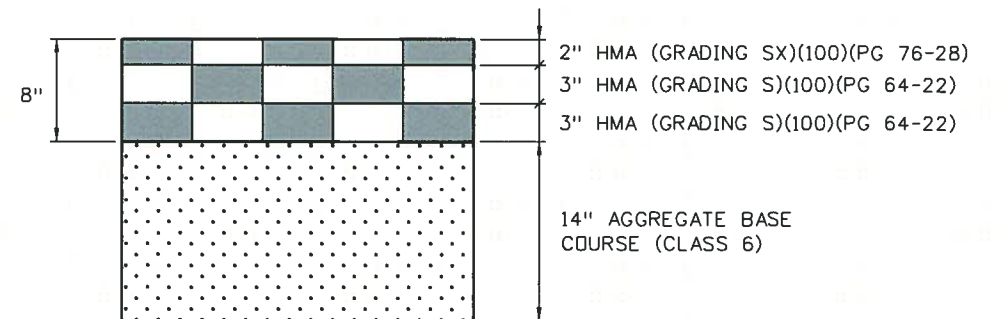


SB SANTA FE
STA. 805+00.00 TO STA. 807+74.80

NOTES:

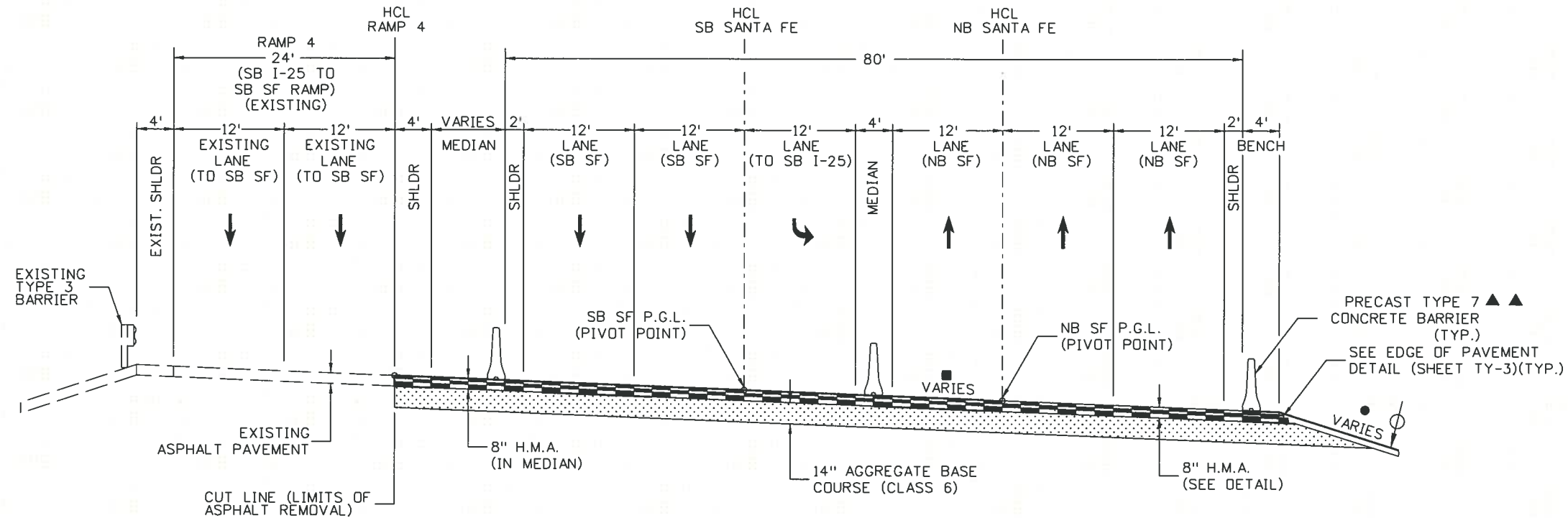
- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



Print Date: 11/17/2010	<p>Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114</p>	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE TYPICAL SECTION SB SANTA FE		Project No./Code							
File Name: 16311DES_PH2_TypSec14.dgn					IM 0254-394							
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Date:			Comments:	Init.:								
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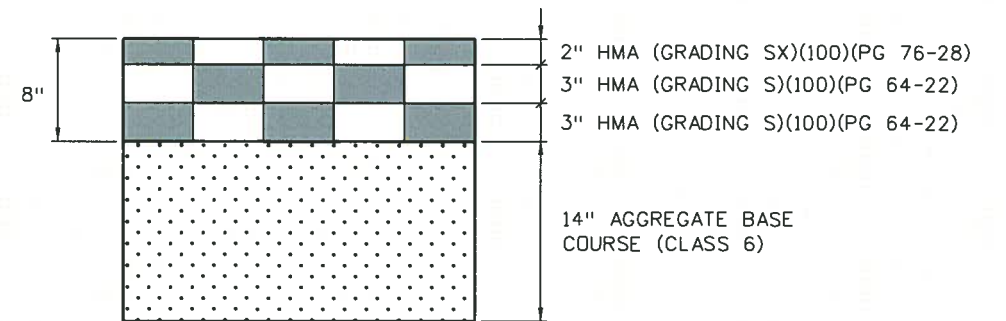


NB & SB SANTA FE
 STA. 727+05.43 TO STA. 730+01.04 (NB)
 STA. 810+56.44 TO STA. 813+59.34 (SB)

NOTES:

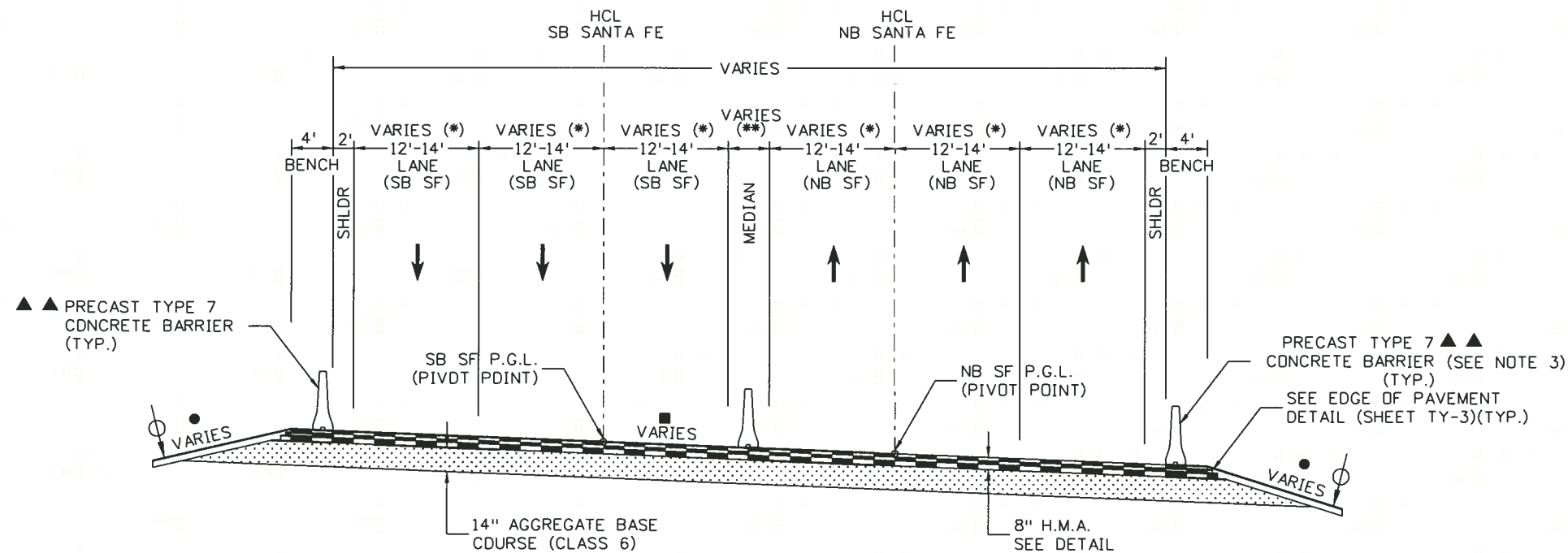
- BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- SEE GRADING PLANS FOR SLOPE TREATMENT.

- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



Print Date: 11/17/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311DES_PH2_TypSec15.dgn	Date:	Comments	Init.			TYPICAL SECTION		
Horiz. Scale: NTS	12/3/2010	REISSUED SHEET	SPG	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	NB & SB SANTA FE		16311
Unit Information					Region 6	Revised:	Designer: SPG	Structure Numbers
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions				RLB	Void:	Detailer: SYS	Subset Sheets: TY-15 of 18	
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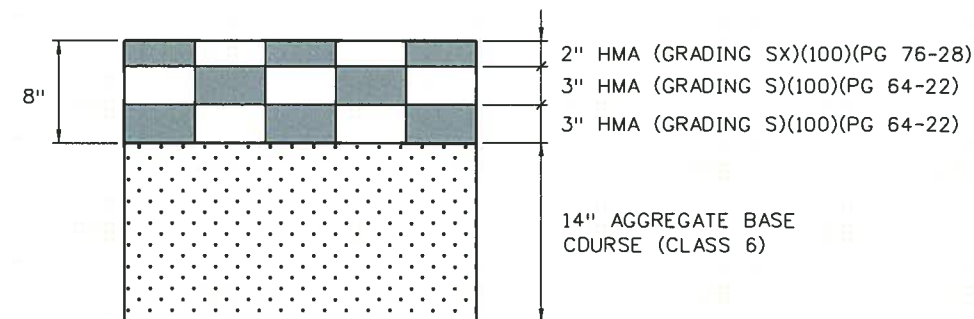
NB & SB SANTA FE
 STA. 730+01.04 TO STA. 732+21.68 (NB)
 STA. 813+59.34 TO STA. 815+77.83 (SB)

- (*) WIDEN NORTHBOUND LANES FROM 12 FT. WIDTH AT STA. 730+01.04 TO 14 FT. WIDTH AT STA. 731+19.30, THEN TRANSITION BACK TO 12 FT. WIDTH AT STA. 732+21.68. WIDEN SOUTHBOUND LANES FROM 12 FT. WIDTH AT STA. 813+59.34 TO 14 FT. WIDTH AT STA. 814+90.33, THEN TRANSITION BACK TO 12 FT. WIDTH LANES AT STA. 815+77.83.
- (**) MEDIAN WIDTH = 4 FT. FROM NB STA. 730+01.04 (SB STA. 813+59.34) TO NB STA. 731+96.02 (SB STA. 815+77.83). MEDIAN WIDTH VARIES PAST NB STA. 731+96.02 (SB STA. 815+77.83)

NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.
- 3.) OFFSET BARRIER AS SHOWN ON SHEET SFPL-3.

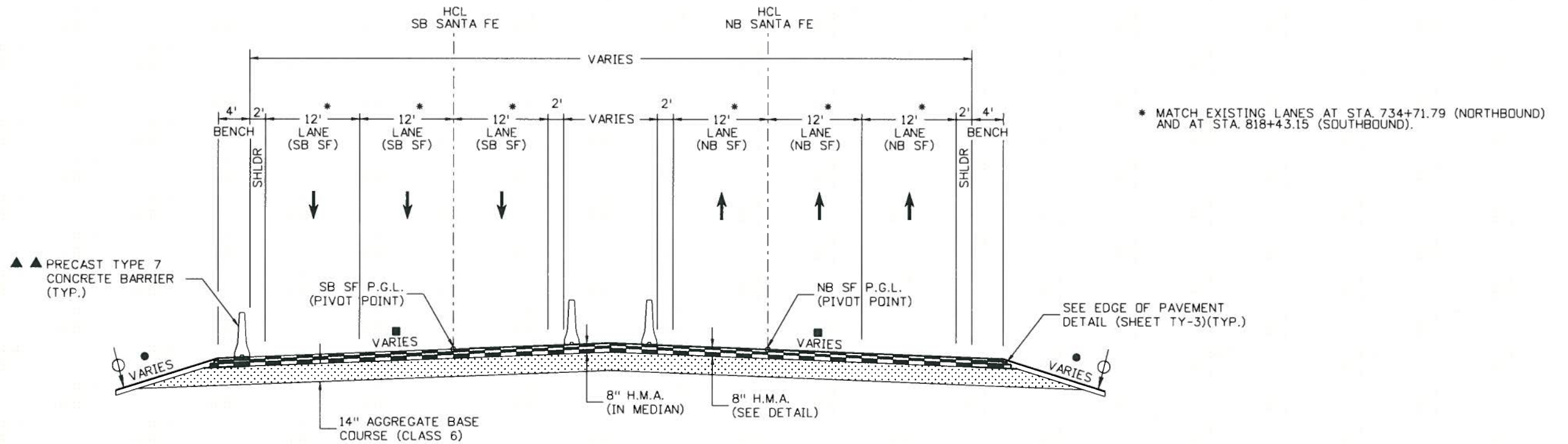
- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



**SANTA FE
HMA PAVEMENT DETAIL**

Print Date: 11/17/2010		Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE TYPICAL SECTION NB & SB SANTA FE	Project No./Code
File Name: 16311DES_PH2_TypSec16.dgn		Date: 12/3/2010 Comments: REISSUED SHEET Init.: SPG	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	Designer: SPG Detailer: SYS	IM 0254-394
Horiz. Scale: NTS Unit Information	Vert. Scale: As Noted Unit Leader Initials		Region 6	Revised:	Structure Numbers	16311
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions			RLB	Void:	Sheet Subset: TYPICAL Subset Sheets: TY-16 of 18	Sheet Number 65 A

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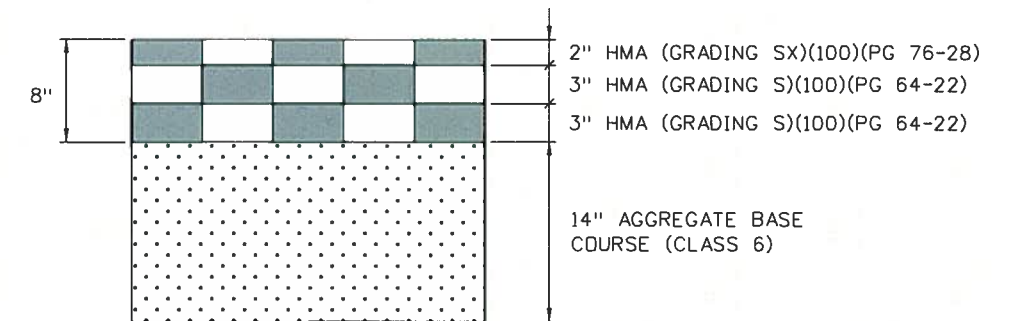
* MATCH EXISTING LANES AT STA. 734+71.79 (NORTHBOUND) AND AT STA. 818+43.15 (SOUTHBOUND).

NB & SB SANTA FE
 STA. 732+21.68 TO STA. 734+71.79 (NB)
 STA. 816+03.10 TO STA. 818+43.15 (SB)



NOTES:

- 1.) BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- 2.) SEE GRADING PLANS FOR SLOPE TREATMENT.

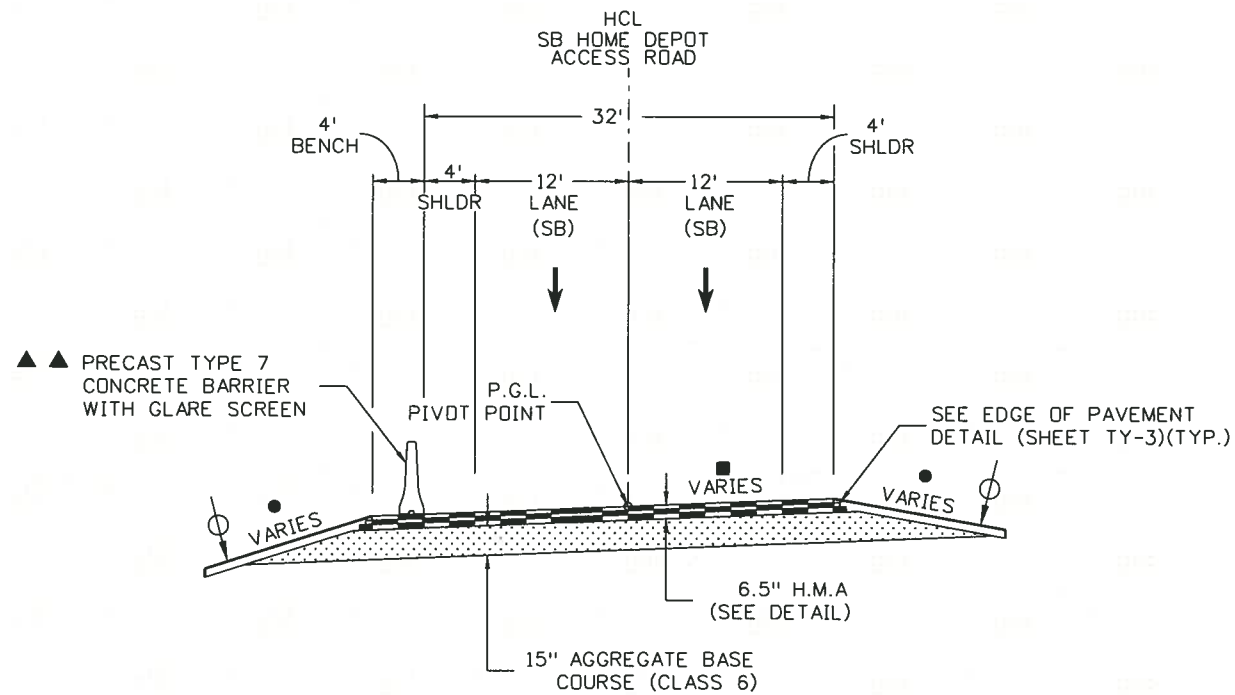
- ⊕ 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



**SANTA FE
HMA PAVEMENT DETAIL**

Print Date: 11/17/2010		Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE TYPICAL SECTION NB & SB SANTA FE		Project No./Code	
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Horiz. Scale: NTS Vert. Scale: As Noted		12/3/2010	REISSUED SHEET	SPG								
Unit Information Unit Leader Initials												
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions				RLB		Revised: Void:		Structure Numbers Subset Sheets: TY-17 of 18				

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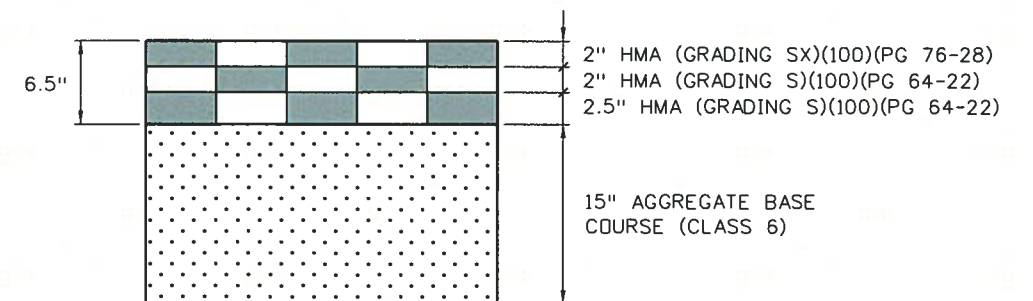


HOME DEPOT ACCESS ROAD
STA. 93+26.62 TO STA. 94+90.46




NOTES:

- BREAK POINTS ON SLOPES AND IN DITCH BOTTOMS SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
- SEE GRADING PLANS FOR SLOPE TREATMENT.

- 4" TOPSOIL DEPTH
- SEE GRADING PLANS FOR ADDITIONAL INFORMATION
- SEE SUPERELEVATION TABLES AND ROADWAY PROFILES FOR CROSS SLOPE INFORMATION
- ▲ SEE RETAINING WALL PLANS
- ▲▲ SEE ROADWAY PLANS FOR LIMITS OF BARRIER



HOME DEPOT ACCESS ROAD
HMA PAVEMENT DETAIL

Print Date: 11/17/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE TYPICAL SECTION HOME DEPOT ACCESS ROAD		Project No./Code	
File Name: 16311DES_PH2_TypSec18.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		Designer: SPG Detailer: SYS Structure Numbers		IM 0254-394	
Horiz. Scale: NTS Vert. Scale: As Noted	12/3/2010	REISSUED SHEET	SPG			Revised:				16311	
Unit Information Unit Leader Initials						Void:				Sheet Subset: TYPICAL Subset Sheets: TY-18 of 18	
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions			 RLB		Sheet Subset: TYPICAL Subset Sheets: TY-18 of 18		Sheet Number 67 A				

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STATION I-25 MAINLINE HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
615+49.08	-0.141	0.141	match end existing Broadway bridge
615+63.74	0.000	0.000	super transition
617+83.97	2.000	-2.000	reverse crown
619+60.15	3.600	-3.600	PC C-I25.2
621+70.15	6.000	-6.000	begin full super elevation
632+77.46	6.000	-6.000	end full super elevation
634+87.46	3.600	-3.600	PT C-I25.2
636+27.46	2.000	-2.000	reverse crown
638+02.46	0.000	-2.000	runout
639+77.46	-2.000	-2.000	normal crown
639+85.10	-2.000	-2.000	normal crown
641+55.10	-2.000	0.000	runout
642+57.10	-2.000	1.200	PC C-I25.3
643+25.10	-2.000	2.000	begin reverse crown
644+75.00	-2.000	2.000	match existing phase 1 section

STATION I-25 MAINLINE HCL	STATION I-25 LEFT HCL	STATION I-25 RIGHT HCL	LEFT SIDE OF I-25 MAINLINE CROSS-SLOPE (percent)	RIGHT SIDE OF I-25 MAINLINE CROSS SLOPE (percent)	DESCRIPTION
615+49.08			-0.141	0.141	match end existing Broadway bridge
615+63.74			0.000	0.000	no cross slope at super transition
617+83.97	2617+83.97	1617+83.97	2.000	-2.000	reverse crown
619+60.15	2619+60.15	1619+60.15	3.600	-3.600	PC C-I25.2, C-I25.2L, C-I25.2R
621+70.15	2621+71.69	1621+68.61	6.000	-6.000	begin full super elevation
632+77.46	2632+87.11	1632+67.81	6.000	-6.000	end full super elevation
634+87.46	2634+98.65	1634+76.28	3.600	-3.600	PT C-I25.2, C-I25.2L, C-I25.2R
636+27.46	2636+38.65	1636+16.27	2.000	-2.000	reverse crown
638+02.46	2638+13.65	1637+91.27	0.000	-2.000	runout
639+77.46	2639+88.65	1639+66.27	-2.000	-2.000	normal crown
639+85.10	2639+96.29	1639+73.91	-2.000	-2.000	normal crown
641+55.10	2641+66.29	1641+43.91	-2.000	0.000	runout
642+57.10			-2.000	1.200	PC C-I25.3
643+25.10			-2.000	2.000	begin reverse crown
644+75.00			-2.000	2.000	match existing phase 1 section

NOTE:
1. CENTER PIVOT AROUND PGL AT THE HCL
2. NEGATIVE CROSS-SLOPE IF FALLING AWAY (SLOPING DOWN FROM THE PIVOT POINT)
3. POSITIVE CROSS-SLOPE IF RAISING AWAY (SLOPING UP) FROM THE PIVOT POINT

Print Date: 10/20/2010		Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311DES_PH2_SuperElevationTable1.dgn		Date:	Comments	Init.		No Revisions:		I-25 MAINLINE		
Horiz. Scale: NTS Vert. Scale: As Noted						Revised:	Designer: SPG	Structure Numbers		16311
Unit Information Unit Leader Initials						Void:	Detailer: SYS	Sheet Subset: ROADWAY	Subset Sheets: SET-1 of 3	Sheet Number 68

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10/20/2010 CDDT-PDFDraftQuality_XM.plt cfig CDDT-PenTable.tbl

STATION RAMP 1 HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
106+00.00	varies	varies	match northbound Santa Fe
109+00.00	2.000	-2.000	match northbound Santa Fe
110+19.77	2.000	-2.000	PC C-R1.1
111+69.77	3.000	-3.000	begin full superelevation
115+84.33	3.000	-3.000	end full superelevation
117+34.33	2.000	-2.000	PT C-R1.1
119+56.90	2.000	-2.000	runout
120+31.90	0.000	0.000	runout
121+06.90	-2.000	2.000	PC C-R1.2
121+56.90	-3.400	3.400	begin full superelevation
124+43.64	-3.400	3.400	end full superelevation
124+93.64	-2.000	2.000	PT C-R1.2
125+68.64	0.000	0.000	runout
126+43.64	2.000	-2.000	runout
135+99.06	2.000	-2.000	match existing northbound I-25

STATION RAMP 3 HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
300+00.00	1.460	-1.460	match SB I-25
300+58.97	1.000	-2.000	pivot about hcl
301+09.91	1.000	-2.460	pivot about hcl
301+54.96	1.000	-2.870	pivot about hcl
302+00.00	1.000	-3.280	pivot about hcl
302+50.00	1.000	-3.760	pivot about hcl
303+00.00	1.000	-4.300	pivot about hcl
304+00.00	2.000	-2.000	end transition
309+80.75	2.000	-2.000	match NB Santa Fe

STATION RAMP 2 HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
200+00.00	3.600	-3.600	match NB I-25 cross-slope
202+01.25	6.000	-6.000	match NB I-25 cross-slope
205+00.00	6.000	-6.000	match NB I-25 cross-slope
206+50.00	2.000	-2.000	begin normal crown
217+06.69	1.160	-1.160	match existing

FOR INFORMATION ONLY

STATION RAMP 4 HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
404+27.16	3.000	-3.000	match existing ramp
406+27.16	-2.000	2.000	end transition
415+91.51	-2.000	2.000	match southbound I-25

NOTE:

- CENTER PIVOT AROUND PGL AT THE HCL
- NEGATIVE CROSS-SLOPE IF FALLING AWAY (SLOPING DOWN FROM THE PIVOT POINT)
- POSITIVE CROSS-SLOPE IF RAISING AWAY (SLOPING UP) FROM THE PIVOT POINT

Print Date: 11/18/2010		Sheet Revisions Date: 12/3/2010 Comments: REISSUED SHEET Init.: SPG			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE RAMPS 1, 2, 3, 4 SUPER ELEVATION TABLES		Project No./Code	
File Name: 16311DES_PH2_SuperElevationTable2.dgn		IM 0254-394								
Horiz. Scale: NTS Vert. Scale: As Noted Unit Information Unit Leader Initials		16311								
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions		Sheet Subset: ROADWAY Subset Sheets: SET-2 of 3		Sheet Number 69 A						

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STATION NB SANTA FE HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
712+52.70	0.800	-0.800	match existing northbound Santa Fe
713+15.00	2.000	-2.000	begin normal cross-slope
734+00.00	2.000	-2.000	end normal cross-slope
734+71.79	2.820	-2.820	match existing northbound Santa Fe

STATION SB SANTA FE HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
805+00.00	varies	varies	match abutting SB ramp (ramp 4)
810+56.44	2.000	-2.000	match abutting SB ramp (ramp 4)
815+00.00	2.000	-2.000	normal crown
816+00.00	0.000	0.000	runout
817+00.00	-2.000	2.000	end transition
817+73.66	-2.000	2.000	normal crown
818+43.15	0.240	-0.240	match existing SB Santa Fe

STATION HOME DEPOT HCL	LEFT SIDE CROSS-SLOPE (percent)	RIGHT SIDE CROSS SLOPE (percent)	DESCRIPTION
93+06.07	varies	varies	match ramp 2
93+16.76	2.060	-2.060	begin transition
93+66.76	0.000	0.000	transition
94+16.76	-2.000	2.000	begin normal cross-slope
95+50.00	-2.000	2.000	begin transition
96+30.82	-3.020	3.020	match existing access road

NDTE:

1. CENTER PIVDT AROUND PGL AT THE HCL
2. NEGATIVE CROSS-SLOPE IF FALLING AWAY (SLDPING DDWN FROM THE PIVDT POINT
3. PDSITIVE CROSS-SLOPE IF RAISING AWAY (SLDPING UP) FROM THE PIVDT PDINT

Print Date: 11/18/2010

File Name: 16311DES_PH2_SuperElevationTable3.dgn

Horiz. Scale: NTS Vert. Scale: As Noted

Unit Information Unit Leader Initials

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Date:	Comments	Init.
12/3/2010	REISSUED SHEET	SPG

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Region 6

2000 South Holly Street
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RLB

As Constructed

No Revisions:

Revised:

Void:

I-25/SANTA FE INTERCHANGE
SANTA FE AND HOME DEPOT ACCESS
SUPER ELEVATION TABLES

Designer: SPG Structure
Detailer: SYS Numbers

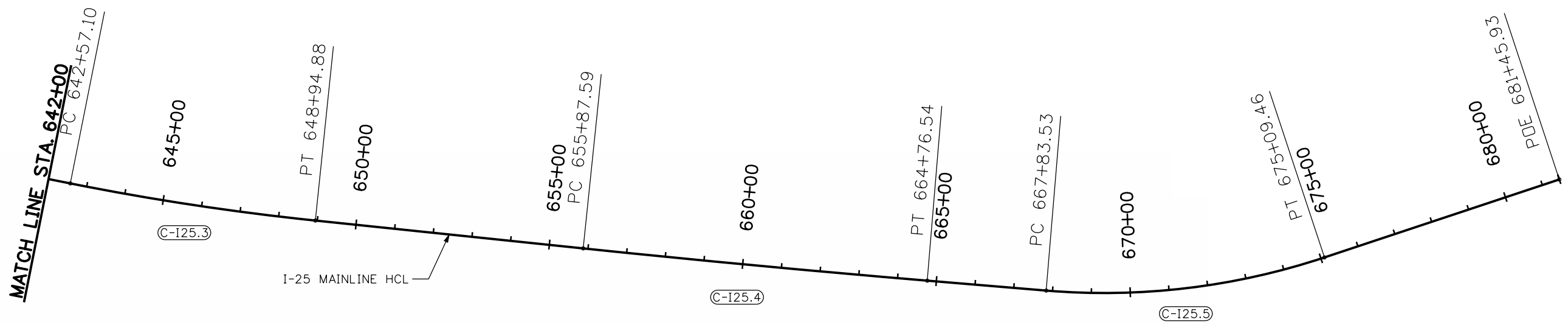
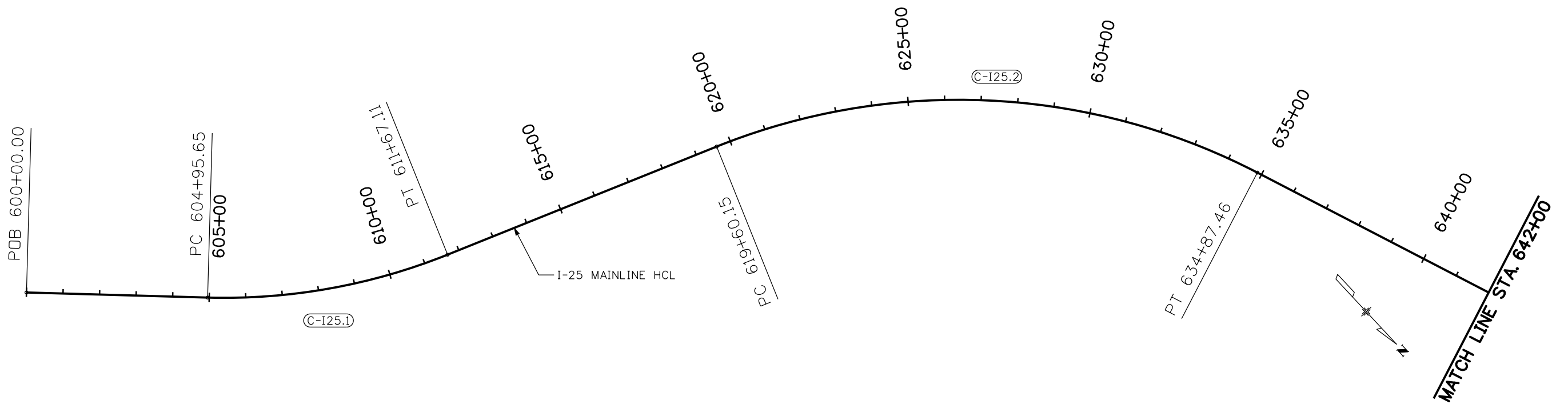
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Project No./Code

IM 0254-394

16311

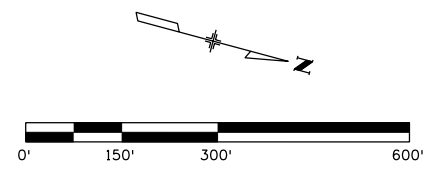
Sheet Number 70 A



(1) SEE CURVE DATA TABLE ON SHEET GM-10

CONTROL LINE DATA - I-25 HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)								
					PC	PI	PT	DELTA	R	L	T	
POB	N 45°25'29" W	495.646	678686.6802	963341.1879		600+00.000						
PI C-I25.1	N 68°55'35" W	1133.556	679273.5411	962745.5619	604+95.646		611+67.113	23°30'06"	-1637.000	671.467	340.522	
PI C-I25.2	N 19°37'33" W	1584.188	679974.0144	960927.7515	619+60.147		634+87.462	49°18'02"	1775.000	1527.315	814.545	
PI C-I25.3	N 24°59'02" W	1011.828	681766.7543	960288.4789	642+57.104		648+94.882	5°21'29"	-6820.000	637.778	319.121	
PI C-I25.4	N 26°08'29" W	751.483	683086.8025	959673.3855	655+87.588		664+76.542	1°09'27"	-4400.000	888.954	444.492	
PI C-I25.5	N 49°14'54" W	1004.432	684091.7409	959180.1717	667+83.533		675+09.459	23°06'25"	-1800.000	725.926	367.964	
POE			684747.4160	958419.2691		681+45.927						



Print Date: 10/20/2010
 File Name: 16311DES_PH2_GeomPlan1.dgn
 Horiz. Scale: 1:300 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FELSBURG HOLT & ULLERIG
 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

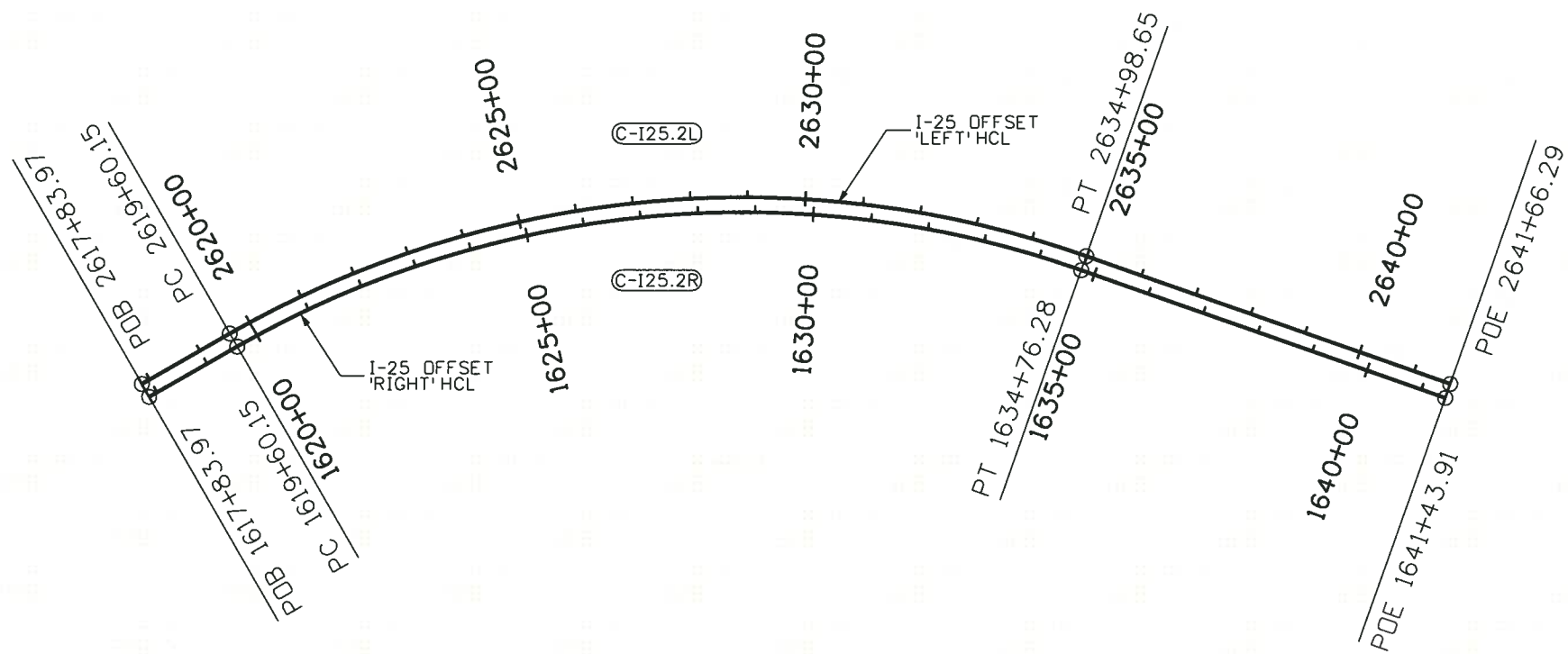
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 I-25 MAINLINE HCL
 GEOMETRIC PLAN**
 Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: GM-1 of 10

Project No./Code
 BR 0252-407
 17783
 Sheet Number **71**

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 10/20/2010 CDDT-PDFDraftQuality_XM.plt cfcg CDDT-PenTable.tbl



CONTROL LINE DATA - I-25L HCL											
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
					POB	N 68°55'35" W	176.177	679605.6524	961847.5396		2617+83.970
PI C-I25.2L	N 19°37'33" W	1488.149	679964.0289	960917.5105	2619+60.147		2634+98.648	49°18'02"	1788.000	1538.501	820.511
POE			681365.7266	960417.6795		2641+66.286					

CONTROL LINE DATA - I-25R HCL											
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
					POB	N 68°55'35" W	176.177	679629.9135	961856.8883		1617+83.970
PI C-I25.2R	N 19°37'33" W	1476.218	679984.0000	960937.9926	1619+60.147		1634+76.276	49°18'02"	1762.000	1516.129	808.580
POE			681374.4593	960442.1691		1641+43.914					

(1) SEE CURVE DATA TABLE ON SHEET GM-10

Print Date: 11/18/2010
 File Name: 16311DES_PH2_GeomPlan2.dgn
 Horiz. Scale: 1:300.089 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
 FELSBURG HOLT & ULLRIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.
12/3/2010	REISSUED SHEET	SPG

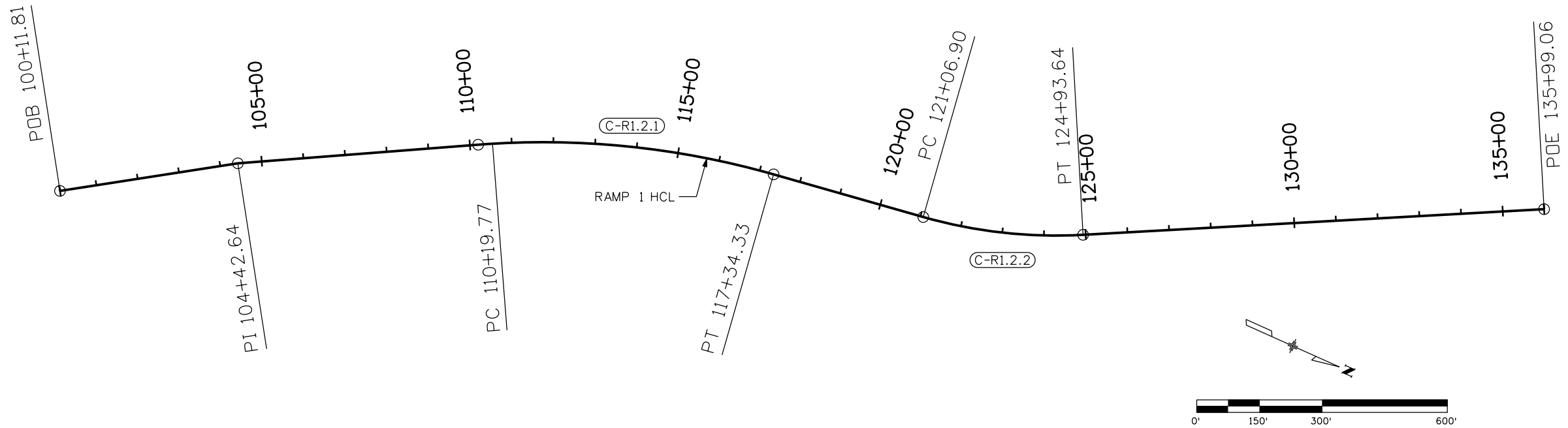
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
 I-25 OFFSET RT & LT HCL
 GEOMETRIC PLAN
 Designer: SPG Structure
 Detailer: SYS Numbers
 Sheet Subset: RDADWAY Subset Sheets: GM-2 of 10

Project No./Code
 BR 0252-407
 17783
 Sheet Number 72 A

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CONTROL LINE DATA - Ramp 1 PH2 HCL											
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)							
					PC	PI	PT	DELTA	R	L	T
POB	N 32°57'13" W	430.826 '	678442.1881	961814.1035		100+11.811					
PI	N 28°34'03" W	577.133 '	678803.6990	961579.7504		104+42.637					
PI C-R1.2.1	N 8°13'08" W	733.650 '	679627.6924	961131.0990	110+19.770		117+34.334	20°20'55"	2012.000 '	714.564 '	361.085 '
PI C-R1.2.2	N 27°19'17" W	1300.595 '	680546.9867	960998.3164	121+06.899		124+93.645	19°06'09"	-1160.000 '	386.746 '	195.184 '
POE			681702.4941	960401.3668		135+99.055					

(1) SEE CURVE DATA TABLE ON SHEET GM-10

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Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

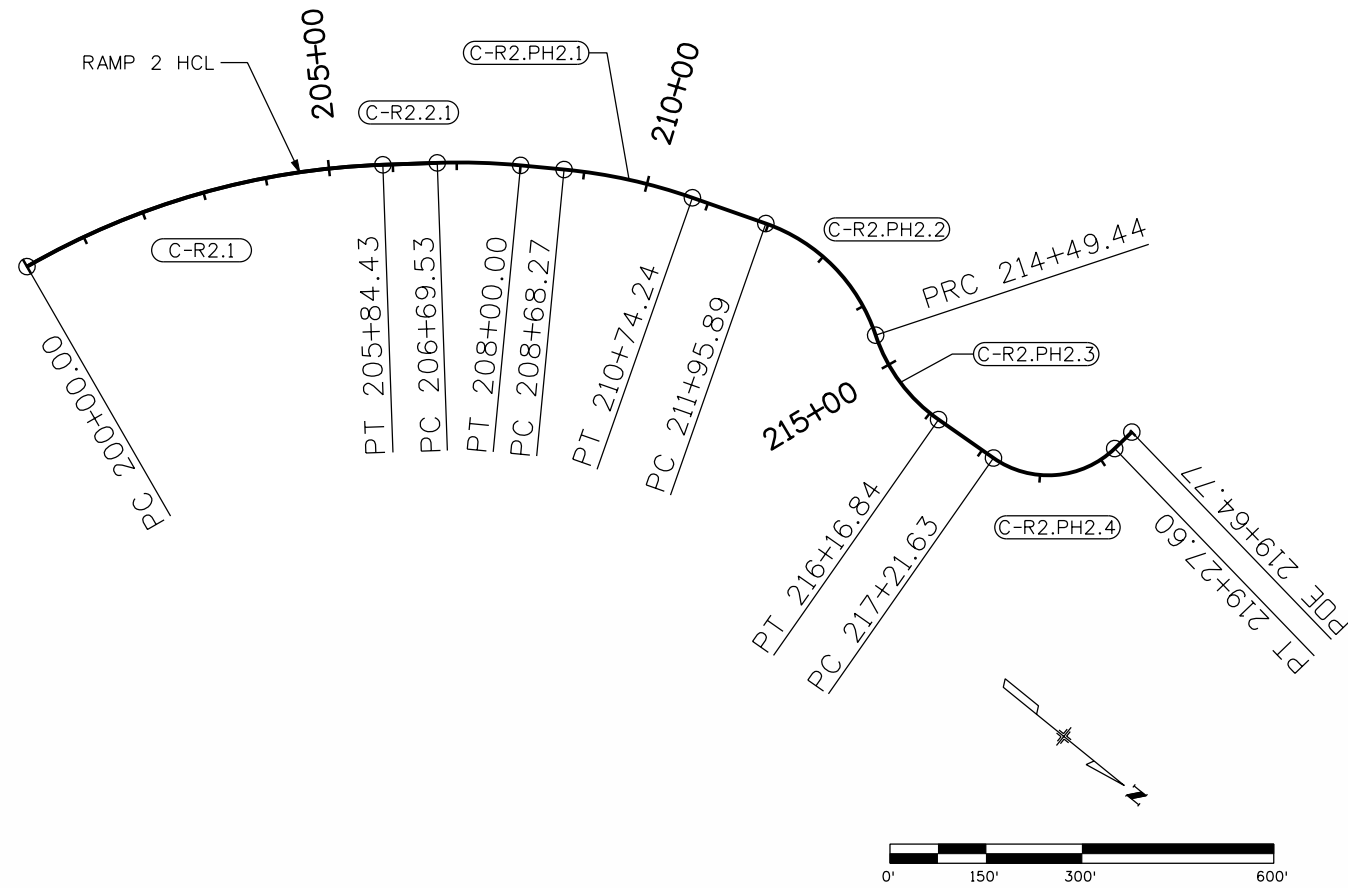
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I-25/SANTA FE INTERCHANGE
RAMP 1 HCL
GEOMETRIC PLAN

Designer: SPG	Structure Numbers
Detailer: SYS	
Sheet Subset: ROADWAY	Subset Sheets: GM-3 of 10

Project No./Code
BR 0252-407
17783
Sheet Number 73



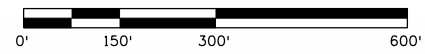
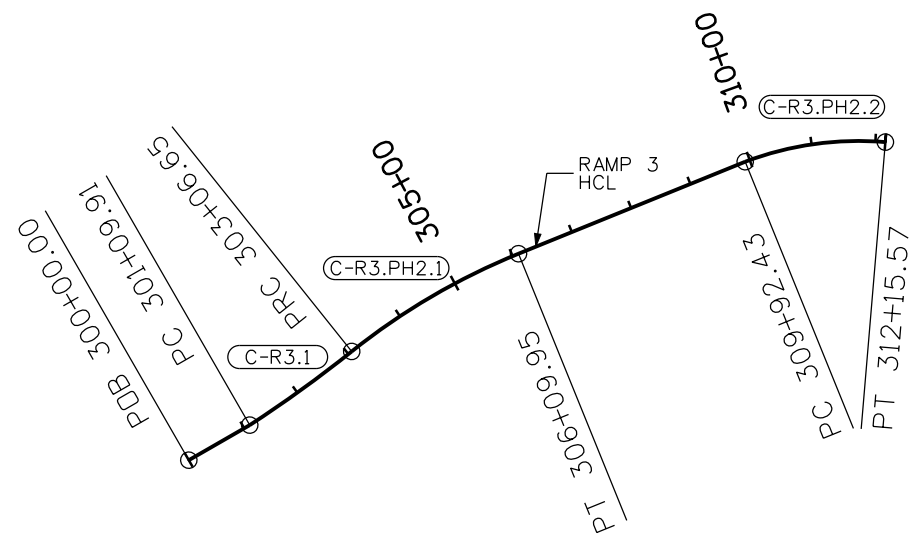
CONTROL LINE DATA - Ramp 2 PH2 HCL

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)							
					PC	PI	PT	DELTA	R	L	T
PI C-R2.1	N 41°01'19" W	383.236 '	679856.4459	961435.8773	200+00.000		205+84.427	27°54'16"	1200.000 '	584.427 '	298.130 '
PI C-R2.2.1	N 33°32'49" W	133.599 '	680194.8667	961141.4639	206+69.533		208+00.000	7°28'31"	1000.000 '	130.467 '	65.326 '
PI C-R2.PH2.1	N 19°39'48" W	311.808 '	680392.4659	961010.4434	208+68.273		210+74.241	13°53'01"	850.000 '	205.968 '	103.491 '
PI C-R2.PH2.2	N 32°35'38" E	303.770 '	680732.8828	960888.8031	211+95.885		214+49.437	52°15'25"	278.000 '	253.552 '	136.362 '
PI C-R2.PH2.3	N 4°00'57" W	191.457 '	680920.7923	961008.9475	214+49.437		216+16.844	36°36'35"	-262.000 '	167.408 '	86.673 '
PI C-R2.PH2.4	N 82°55'35" W	160.256 '	681234.5604	960986.9189	217+21.629		219+27.595	78°54'37"	-149.549 '	205.966 '	123.083 '
POE			681254.2952	960827.8831			219+64.769				

(1) SEE CURVE DATA TABLE ON SHEET GM-10

Print Date: 10/20/2010		Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE RAMP 2 HCL GEOMETRIC PLAN	Project No./Code	
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Horiz. Scale: 1:300 Vert. Scale: As Noted				Revised:		Structure Numbers	17783
Unit Information Unit Leader Initials				Void:		Subset Sheets: GM-4 of 10	Sheet Number 74
6300 South Syracuse Way Centennial, CO 80111			Region 6	RLB			

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CONTROL LINE DATA - Ramp 3 PH2 HCL											
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	CURVE DATA		DELTA	R	L	T	
					PC	PI					
POB	N 68°55'35" W	109.914 '	679539.659	961885.3064		300+00.000					
PI C-R3.1	N 77°38'51" W	401.743 '	679609.5155	961689.0853	301+09.914		5°35'39"	-2015.000 '	196.741 '	98.449 '	
PI C-R3.PH2.1	N 61°05'51" W	535.194 '	679663.2447	961443.7404	303+06.655		16°33'00"	1050.000 '	303.294 '	152.710 '	
PI C-R3.PH2.2	N 34°11'23" W		679979.0552	960877.1914	309+92.432		25°34'10"	500.000 '	223.134 '	113.456 '	

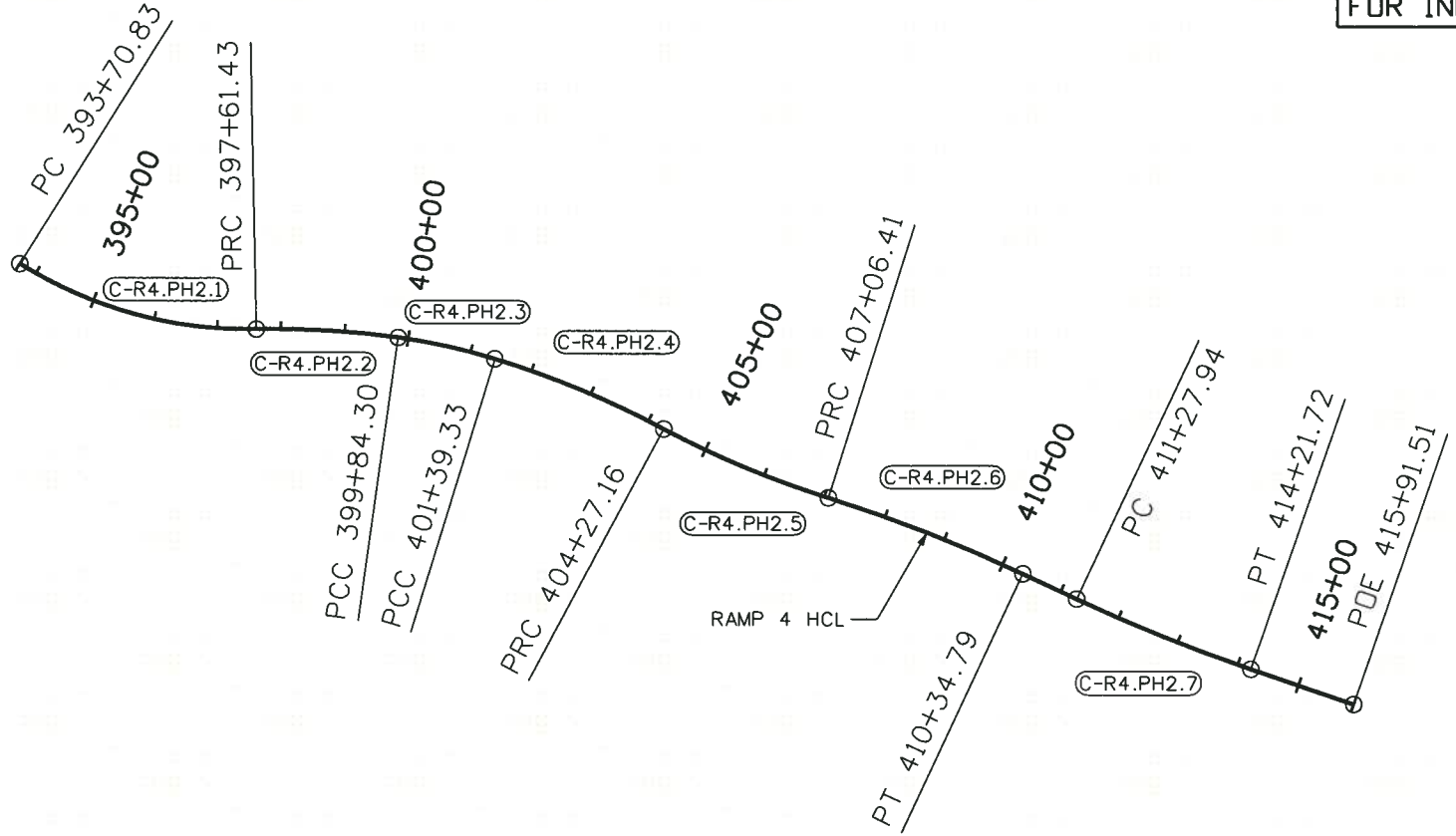
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Print Date: 10/20/2010		Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed		I-25/SANTA FE INTERCHANGE			Project No./Code
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Horiz. Scale: 1:300 Vert. Scale: As Noted						Revised:	Designer: SPG	Structure Numbers	17783		
Unit Information Unit Leader Initials						Void:	Detailer: SYS	Subset Sheets: GM-5 of 10	Sheet Number 75		

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FOR INFORMATION ONLY



CONTROL LINE DATA - Ramp 4 PH2 HCL

POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)					DELTA	R	L	T
					PC	PI	PT					
PI C-R4.PH2.1	N 40°14'24" W	568.245 '	679777.4906	960989.2513	393+70.831		397+61.427	33°21'25"	-670.908 '	390.596 '	201.008 '	
PI C-R4.PH2.2	N 31°00'25" W	406.737 '	680016.1767	960787.2601	397+61.427		399+84.296	9°13'59"	1383.000 '	222.869 '	111.676 '	
PI C-R4.PH2.3	N 22°00'58" W	529.931 '	680178.4730	960689.7163	399+84.296		401+39.332	8°59'27"	988.000 '	155.036 '	77.678 '	
PI C-R4.PH2.4	N 10°53'45" W	423.621 '	680384.3268	960606.479	401+39.332		404+27.162	11°07'13"	1483.000 '	287.829 '	144.368 '	
PI C-R4.PH2.5	N 21°28'40" W	468.397 '	680663.5928	960552.7224	404+27.162		407+06.415	10°34'55"	-1512.000 '	279.253 '	140.025 '	
PI C-R4.PH2.6	N 13°54'57" W	257.576 '	680946.9014	960441.2511	407+06.415		410+34.787	7°33'43"	2488.000 '	328.372 '	164.425 '	
PI C-R4.PH2.7	N 19°59'02" W	316.814 '	681339.6329	960343.9455	411+27.938		414+21.724	6°04'05"	-2774.000 '	293.787 '	147.031 '	
POE			681637.3716	960235.6729			415+91.508					

(1) SEE CURVE DATA TABLE ON SHEET GM-10

Print Date: 11/19/2010

File Name: 16311DES_PH2_GeomPlan6.dgn

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Unit Information Unit Leader Initials

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Centennial, CO 80111

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Date:	Comments	Init.
12/3/2010	REISSUED SHEET	SPG

Colorado Department of Transportation



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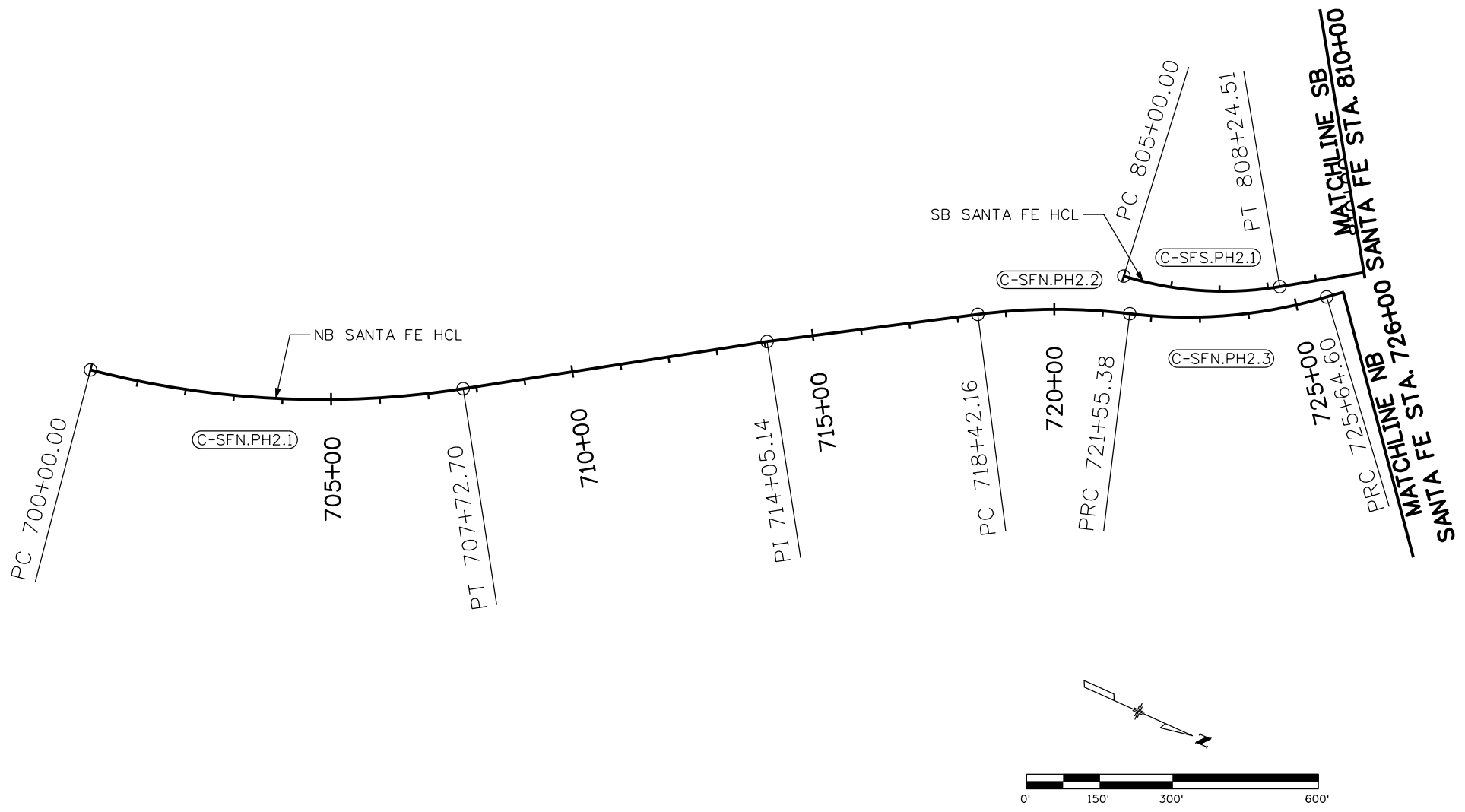
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RAMP 4 HCL
GEOMETRIC PLAN

Designer: SPG	Structure Numbers
Detailer: SYS	
Sheet Subset: ROADWAY	Subset Sheets: GM-6 of 10

Project No./Code
BR 0252-407
17783
Sheet Number 76 A

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Print Date: 10/20/2010	
File Name: 16311DES_PH2_GeomPlan7.dgn	
Horiz. Scale: 1:300	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.

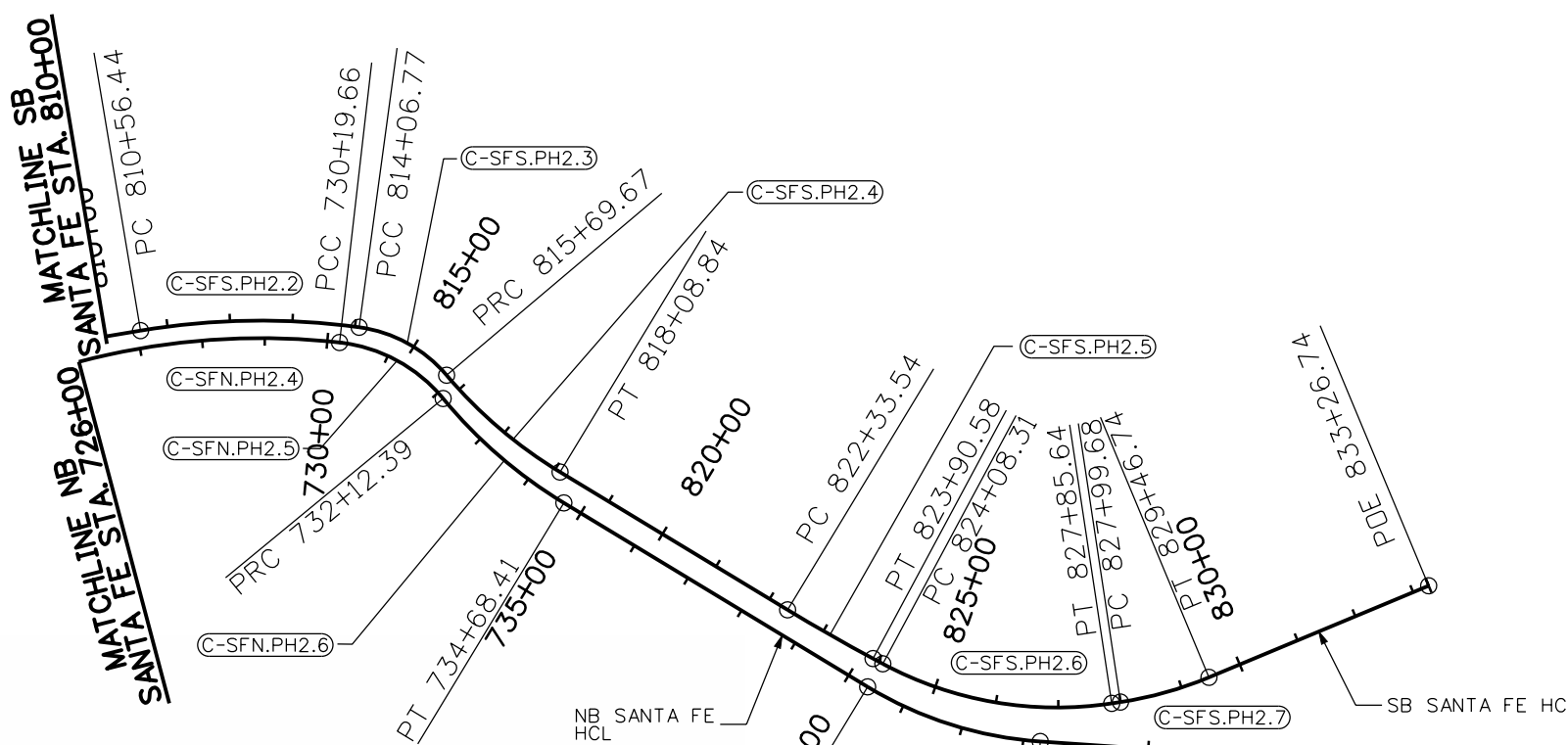
Colorado Department of Transportation

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Region 6 **RLB**

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE NB & SB SANTA FE HCL GEOMETRIC PLAN		
Designer: SPG	Structure Numbers	
Detailer: SYS		
Sheet Subset: ROADWAY	Subset Sheets: GM-7 of 10	

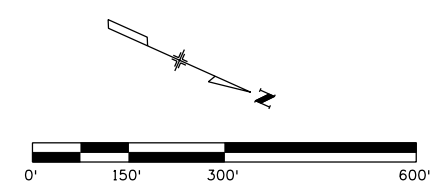
Project No./Code
BR 0252-407
17783
Sheet Number 77



(1) SEE CURVE DATA TABLE ON SHEET GM-10

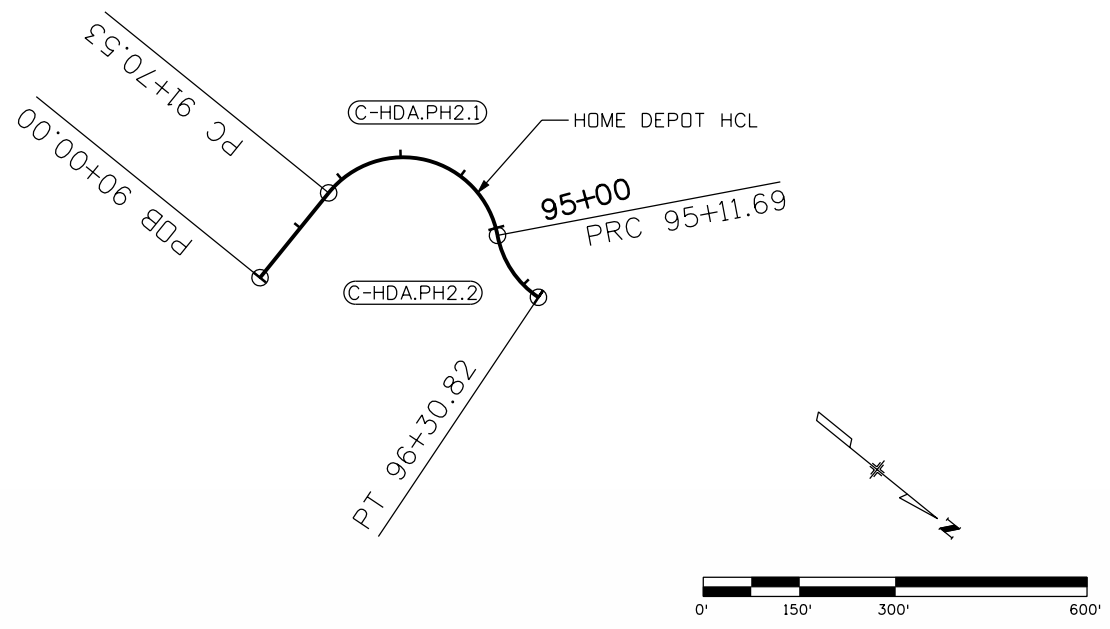
CONTROL LINE DATA - Santa Fe SB PH2 HCL												
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)					DELTA	R	L	T
					PC	PI	PT					
PI C-SFS.PH2.1	N 33°38'19" W	482.519	679744.8832	961017.3616	805+00.000		808+24.505	26°45'21"	-694.908	324.505	165.267	
PI C-SFS.PH2.2	N 16°24'07" W	339.400	680222.5167	960699.5577	810+56.443		814+06.770	17°14'13"	1164.500	350.327	176.497	
PI C-SFS.PH2.3	N 25°38'30" E	324.480	680473.6739	960625.6292	814+06.770		815+69.674	42°02'37"	222.000	162.904	85.315	
PI C-SFS.PH2.4	N 7°04'26" E	545.337	680659.3460	960714.7550	815+69.674		818+08.839	18°34'05"	-738.000	239.165	120.640	
PI C-SFS.PH2.5	N 4°04'29" E	96.268	681278.4723	960791.5841	822+33.536		823+90.576	2°59'57"	-3000.000	157.040	78.538	
PI C-SFS.PH2.6	N 32°43'29" W	209.475	681569.4344	960812.3109	824+08.306		827+85.639	36°47'57"	-587.500	377.333	195.431	
PI C-SFS.PH2.7	N 46°46'05" W	453.901	681807.8318	960659.1173	827+99.683		829+46.743	14°02'36"	-600.000	147.060	73.901	
POE			682118.7333	960328.4120			833+26.743					

CONTROL LINE DATA - Santa Fe NB PH2 HCL												
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)					DELTA	R	L	T
					PC	PI	PT					
PI C-SFN.PH2.1	N 32°57'13" W	1024.258	678106.8759	962017.1722	700+00.000		707+72.705	23°25'29"	-1890.000	772.705	391.825	
PI	N 31°28'44" W	437.019	678966.3414	961460.015			714+05.138					
PI C-SFN.PH2.2	N 17°17'32" W	668.078	679473.2949	961149.6104	718+42.157		721+55.378	14°11'12"	1265.000	313.221	157.415	
PI C-SFN.PH2.3	N 40°44'19" W	791.807	679821.73	961041.1373	721+55.378		725+64.598	23°26'48"	-1000.000	409.220	207.514	
PI C-SFN.PH2.4	N 17°47'50" W	423.356	680153.7011	960755.2066	725+64.598		730+19.659	22°56'30"	1136.500	455.061	230.620	
PI C-SFN.PH2.5	N 26°22'29" E	357.459	680469.8729	960653.7122	730+19.659		732+12.395	44°10'19"	250.000	192.736	101.443	
PI C-SFN.PH2.6	N 7°04'26" E	696.212	680676.537	960756.1874	732+12.395		734+68.411	19°18'03"	-760.000	256.016	129.233	
PI C-SFN.PH2.7	N 20°11'59" W	458.508	681515.0346	960860.2389	740+35.391		743+27.187	27°16'25"	-613.000	291.796	148.717	
POE			681945.3422	960701.9191			746+36.978					



Print Date: 10/20/2010			As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE NB & SB SANTA FE HCL GEOMETRIC PLAN		Project No./Code	
File Name: 16311DES_PH2_GeomPlan8.dgn						BR 0252-407	
Horiz. Scale: 1:300 Vert. Scale: As Noted						17783	
Unit Information Unit Leader Initials						Sheet Number 78	
6300 South Syracuse Way Centennial, CO 80111		2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Region 6 RLB	Designer: SPG Structure Numbers Detailer: SYS Sheet Subset: ROADWAY Subset Sheets: GM-8 of 10			

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 CDDT-PDFDraftQuality_XM.plt ctf CDDT-PenTable.tbl



CONTROL LINE DATA - Home Depot PH2 HCL											
POINT ID (1)	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)							
					PC	PI	PT	DELTA	R	L	T
POB	S 89°58'03" W	170.530	680736.5387	961204.2399		90+00.000					
PI C-HDA.PH2.1	N 40°16'48" E	443.111	680736.2575	960709.7296	91+70.530		95+11.688	130°18'45"	150.000	341.157	323.980
PI C-HDA.PH2.2	N 5°13'29" W		681031.4119	960959.8611	95+11.688		96+30.819	45°30'17"	-150.000	119.131	62.908

(1) SEE CURVE DATA TABLE ON SHEET GM-10

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File Name: 16311DES_PH2_GeomPlan9.dgn	
Horiz. Scale: 1:300 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

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I-25/SANTA FE INTERCHANGE
HOME DEPOT HCL
GEOMETRIC PLAN

Designer: SPG	Structure Numbers
Detailer: SYS	
Sheet Subset: ROADWAY	Subset Sheets: GM-9 of 10

Project No./Code
BR 0252-407
17783
Sheet Number 79

I-25 / SANTA FE CURVE DATA TABLE

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	DEGREE OF CURVE (degree)	DIRECTION OF HCL CURVE	DIRECTION OF TRAFFIC CURVE	e (design) (percent)	SPEED (MPH)	STOPPING SIGHT DISTANCE (feet)	NOTE
I-25 MAINLINE									
C-I25.1	23deg30'06"	1637.00	03deg30'00"	left	left / right	6.00	-	-	existing curve
C-I25.2	49deg18'02"	1775.00	03deg13'41"	right	left / right	6.00	55.00	498.00	hor. sight distance controls speed
C-I25.3	05deg21'29"	6820.00	00deg50'24"	left	left / right	2.00	55.00	987.00	super at reverse crown slope
C-I25.4	01deg09'27"	44000.00	00deg07'49"	left	left / right	+/- 2.00	65.00	2515.00	normal crown - min. length controls (future)
C-I25.5	23deg06'25"	1800.00	03deg10'59"	left	left / right	6.00	55.00	499.00	sight distance controls speed (future)
C-I25.2L	49deg18'02"	1788.00	03deg12'16"	right	left	6.00	55.00	498.00	13 ft left offset from C-I25.2
C-I25.2R	49deg18'02"	1762.00	03deg15'06"	right	right	6.00	55.00	498.00	13 ft right offset from C-I25.2
RAMP 1									
C-R1.1	20deg20'55"	2012.00	02deg50'52"	right	right	3.00	45.00	432.00	from NB Santa Fe
C-R1.2	19deg06'09"	1160.00	04deg56'21"	left	left	3.40	40.00	305.00	hor. sight distance controls speed
RAMP 2									
C-R2.1	27deg54'16"	1200.00	04deg46'29"	right	right	3.60	45.00	387.00	match NB I-25
C-R2.2.1	07deg28'31"	1000.00	05deg43'46"	right	right	2.00	45.00	353.00	to Santa Fe
C-R2.PH2.1	13deg53'01"	850.00	06deg44'26"	right	right	2.00	45.00	397.00	to Santa Fe
C-R2.PH2.2	52deg15'25"	278.00	20deg36'36"	right	right	2.00	25.00	244.00	to Santa Fe
C-R2.PH2.3	36deg36'35"	262.00	21deg52'07"	left	left	-2.00	20.00	-	to Santa Fe
C-R2.PH2.4	78deg54'37"	149.55	38deg18'44"	left	left	-2.00	15.00	-	to Santa Fe
RAMP 3									
C-R3.1	05deg35'39"	2015.00	02deg50'36"	left	right	-2.00	55.00	499.00	match SB I-25
C-R3.PH2.1	16deg33'00"	1050.00	05deg27'24"	right	left	2.00	50.00	431.00	portion of 'ultimate' curve C-R3.2 to SB I-25
C-R3.PH2.2	25deg34'10"	500.00	11deg27'33"	right	left	-2.00	30.00	-	SB Santa Fe auxiliary lane to SB I-25
RAMP 4 (FOR INFORMATION ONLY)									
C-R4.PH2.1	33deg21'25"	670.91	08deg32'24"	left	right	-	-	-	existing curve
C-R4.PH2.2	09deg13'59"	1383.00	04deg08'34"	right	left	-	-	-	existing curve
C-R4.PH2.3	08deg59'27"	988.00	05deg47'57"	right	left	-	-	-	existing curve
C-R4.PH2.4	11deg07'13"	1483.00	03deg51'49"	right	left	-	-	-	existing curve
C-R4.PH2.5	10deg34'55"	1512.00	03deg47'22"	left	right	2.00	45.00	409.00	transition to existing ramp to SB Santa Fe
C-R4.PH2.6	07deg33'43"	2488.00	02deg18'10"	right	left	-2.00	55.00	496.00	transition to existing ramp to SB Santa Fe
C-R4.PH2.7	06deg04'05"	2774.00	02deg03'56"	left	right	2.00	55.00	555.00	portion of 'ultimate' curve C-R4.3 to SB Santa Fe
SANTA FE NB									
C-SFN.PH2.1	23deg25'29"	1890.00	03deg01'53"	left	left	-	-	-	existing curve
C-SFN.PH2.2	14deg11'12"	1265.00	04deg31'46"	right	right	-	-	-	existing curve
C-SFN.PH2.3	23deg26'48"	1000.00	05deg43'46"	left	left	-2.00	35.00	252.00	hor. sight distance controls speed
C-SFN.PH2.4	22deg56'30"	1136.50	05deg02'29"	right	right	2.00	35.00	267.00	hor. sight distance controls speed
C-SFN.PH2.5	44deg10'19"	250.00	22deg55'06"	right	right	2.00	25.00	211.00	alignment between bridge piers
C-SFN.PH2.6	19deg18'03"	760.00	07deg32'20"	left	left	-2.00	35.00	246.00	hor. sight distance controls speed
C-SFN.PH2.7	27deg16'25"	613.00	09deg20'48"	left	left	-	-	-	existing curve
SANTA FE SB									
C-SFS.PH2.1	26deg45'21"	694.91	08deg14'42"	left	right	2.00	40.00	-	abuts SB I-25 ramp to SB Santa Fe
C-SFS.PH2.2	17deg14'13"	1164.50	04deg55'13"	right	left	2.00	45.00	422.00	hor. sight distance controls speed
C-SFS.PH2.3	42deg02'37"	222.00	25deg48'32"	right	left	2.00	25.00	202.00	hor. sight distance controls speed
C-SFS.PH2.4	18deg34'05"	738.00	07deg45'49"	left	right	2.00	30.00	214.00	hor. sight distance controls speed
C-SFS.PH2.5	02deg59'57"	3000.00	01deg54'35"	left	right	-	-	-	existing curve
C-SFS.PH2.6	36deg47'57"	587.50	09deg45'09"	left	right	-	-	-	existing curve
C-SFS.PH2.7	14deg02'36"	600.00	09deg32'57"	left	right	-	-	-	existing curve
HOME DEPOT									
C-HDA.PH2.1	130deg18'45"	150.00	38deg11'50"	right	left	-2.00	20.00	-	to Home Depot and I-25 Frontage Road
C-HDA.PH2.2	45deg30'17"	150.00	38deg11'50"	left	right	2.00	20.00	-	to Home Depot and I-25 Frontage Road

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I-25/SANTA FE INTERCHANGE
 GEOMETRIC PLAN
 HORIZONTAL CURVE TABLE

Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: GM-10 of 10


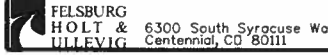
Project No./Code
 BR 0252-407
 17783
 Sheet Number 80 A

TABULATION OF ROADWAY REMOVAL ITEMS

STATION / LOCATION	202-00090 REMOVAL OF DELINEATOR	202-00190 REMOVAL OF CONCRETE MEDIAN COVER MATERIAL	202-00195 REMOVAL OF MEDIAN COVER	202-00200 REMOVAL OF SIDEWALK	202-00203 REMOVAL OF CURB AND GUTTER	202-00206 REMOVAL OF CONCRETE CURB RAMP	202-00210 REMOVAL OF CONCRETE PAVEMENT	202-00220 REMOVAL OF ASPHALT MAT	202-00895 REMOVAL OF IMPACT ATTENUATOR	202-01130 REMOVAL OF GUARDRAIL TYPE 3	202-01170 REMOVAL OF GUARDRAIL TYPE 7	202-01300 REMOVAL OF END ANCHORAGE
	EA	SY	SY	SY	LF	SY	SY	SY	EA	LF	LF	EA
I-25 MAINLINE	25	235			314			37,899	2		3,680	
RAMPS												
BY CONTRACTOR					1,020			3,374	2	71	1,303	1
BY OTHERS *	25		404		418			6,078		269	467	3
SANTA FE	25	535	2,100	55	6,921	20		16,390		3,520		13
HOME DEPOT			530		2,058			4,424				
I-25 FRONTAGE ROAD					135		100	1,078				
PROJECT TOTALS	50	770	2,630	55	10,448	20	100	63,165	4	3,591	4,983	14

* QUANTITIES FOR INFORMATION ONLY; NOT INCLUDED IN THE PROJECT TOTALS

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Date:	Comments				Init.																	
12/3/2010	REISSUED SHEET	SPG																				
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Horiz. Scale: 1:1		Unit Information		 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		Designer: SPG Detailer: SYS Sheet Subset: TABS		Structure Numbers Subst Sheets: TB-1 of 4 Sheet Number 81 A														
Vert. Scale: As Noted		Unit Leader Initials		 FELSBURG HOLT & LILLEVIG 6300 South Syracuse Way Centennial, CO 80111		RLB		17783														

TABULATION OF ROADWAY ITEMS

STATION / LOCATION	507-00000 CONCRETE SLOPE AND DITCH PAVING	606-00301 GUARDRAIL TYPE 3 (6'-3" SPACING)	606-00710 GUARDRAIL TYPE 7 (STYLE CA)	606-00725 GUARDRAIL TYPE 7 (STYLE CC) (CONCRETE GLARE SCREEN)	606-00740 GUARDRAIL TYPE 7 (STYLE CE)	606-00745 GUARDRAIL TYPE 7 (STYLE CE) (CONCRETE GLARE SCREEN)	606-01340 END ANCHORAGE TYPE 3D	606-01370 TRANSITION TYPE 3G	606-01380 TRANSITION TYPE 3H	609-21020 CURB AND GUTTER TYPE 2 (SECTION II-B)	609-24006 GUTTER TYPE 2 (6 FOOT)	614-85001 IMPACT ATTENUATOR	606-00705 GUARDRAIL TYPE 7 (SPECIAL)	630-85010 IMPACT ATTENUATOR (TEMPORARY)	606-02003 END ANCHORAGE (NONFLARED)
	CY	LF	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	LF	EA	EA
I-25 MAINLINE	17	300	673	555	444	1,774	1		1			2			
RAMP 1		510	356		80		1	1	2			1	451		
RAMP 2			347										1,309		
RAMP 3			614										586		
RAMP 4 *			928			1							1,524		
SANTA FE (NB & SB)	19	500	170				2			217			6,140	3	2
HOME DEPOT ACCESS ROAD													223		
I-25 FRONTAGE ROAD											128				
PROJECT TOTALS	36	1,310	2,160	555	524	1,774	4	1	3	217	128	3	8,709	3	2

* QUANTITIES FOR INFORMATION ONLY; NOT INCLUDED IN THE PROJECT TOTALS

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Unit Information Unit Leader Initials				Detailer: SYS	Sheet Subset: TABS	Subset Sheets: TB-2 of 4				
 FELSBURG HOLT & ULLERVIG 6300 South Syracuse Way Centennial, CO 80111				RLB						

TABULATION OF PAVING ITEMS

STATION / LOCATION	304-06000 AGGREGATE BASE COURSE (CLASS 6)	403-33841 HOT MIX ASPHALT (Gr S) (100)(64-22)	403-34871 HOT MIX ASPHALT (Gr SX) (100)(76-28)	411-10255 EMULSIFIED ASPHALT (SLOW SETTING)	412-00800 CONCRETE PAVEMENT (8 INCH)	412-01300 CONCRETE PAVEMENT (13 INCH)
	TON	TON	TON	GAL	SY	SY
I-25 MAINLINE	13,205					40,095
RAMP 1	1,680	360	150	165		2,365
RAMP 2	4,855	1,535	685	930		
RAMP 3	2,325	655	330	445		
RAMP 4 *	3,215	1,080	360	490		1,935
SANTA FE (NB & SB)	14,760	6,660	2,220	2,940		
HOME DEPOT ACCESS ROAD	1,035	325	145	200		
I-25 FRONTAGE ROAD	880	270	125	165	100	
PROJECT TOTALS	38,740	9,805	3,655	4,845	100	42,460

* QUANTITIES FOR INFORMATION ONLY; NOT INCLUDED IN THE PROJECT TOTALS

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Date:	Comments				Init.																			
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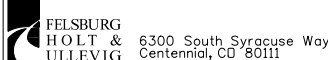
TABULATION OF EARTHWORK

INDEX			ITEM	PROJECT TOTALS	
BOOK	PAGE	SHEET		CU. YDS.	
			UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE) 203-00010 FROM CROSS SECTIONS		
			INTERSTATE 25 AND RAMPS	56,003	
			SANTA FE	91,240	
			TOTAL (PAY QUANTITY)	147,243 ■	

(FOR INFORMATION ONLY)

			EMBANKMENT MATERIAL (COMPLETE IN PLACE) ● FROM CROSS SECTIONS	CU. YDS.	
			INTERSTATE 25 AND RAMPS	129,498	
			SANTA FE	14,097	
			STRUCTURAL BACKFILL ADJUSTMENT	-35,900	
			TOTAL	107,695	
			TOPSOIL	8,103 ▲	
			COMPACTION (MOISTURE & DENSITY CONTROL)	CU. YDS.	
			EMBANKMENT (NET)	107,695	
			BASES OF CUTS & FILLS	36,588	
			TOTAL	144,283	
			WETTING QUANTITIES (FOR COMPACTION)	M. GAL.	
			(144283 x 0.040 MILLION GALLONS / CY)	5,771	
			TOTAL	5,771	
			EARTHWORK QUANTITY BALANCE	CU. YDS.	
			EMBANKMENT x FACTOR (1.15)	123,849	
			EMBANKMENT REQUIRED FOR SHRINKAGE		
			BASES OF CUTS & FILLS	5,488	
			BALANCE TOTAL	129,337	
			UNCLASSIFIED EXCAVATION	147,243	
			TO BE DISPOSED OF BY CONTRACTOR	17,906	
			BALANCE TOTAL	129,337	

- THE MINIMUM R-VALUE FOR THE TOP FIVE FEET OF EMBANKMENT SHALL BE 20. MINIMUM R-VALUE OF 10 SHALL BE USED BELOW THE TOP FIVE FEET.
- ROCK EXCAVATION, IF REQUIRED, SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED AS PART OF UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE).
- ▲ THE TOPSOIL SHALL BE APPLIED TO ALL SURFACES AT A MINIMUM DEPTH OF 4 INCHES, OR AS DIRECTED BY THE FIELD ENGINEER. THE CONTRACTOR SHALL DISTRIBUTE ANY EXCESS TOPSOIL UNIFORMLY OVER THE REQUIRED SURFACES, OR AS DIRECTED BY THE FIELD ENGINEER. THE TOPSOIL WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF THE EARTHWORK.

Print Date: 12/22/2010
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 Centennial, CO 80111

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Colorado Department of Transportation

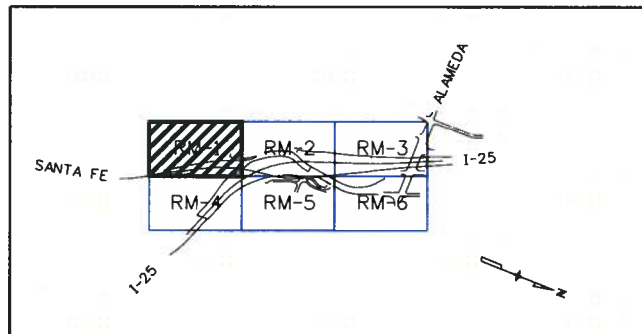
 2000 South Holly Street
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I-25/SANTA FE INTERCHANGE
 TABULATION OF EARTHWORK
 Designer: DCS
 Detailer: DCS
 Sheet Subset: TABS
 Structure Numbers
 Subset Sheets: TB-4 of 4

Project No./Code
 BR 0252-407
 17783
 Sheet Number 84 B

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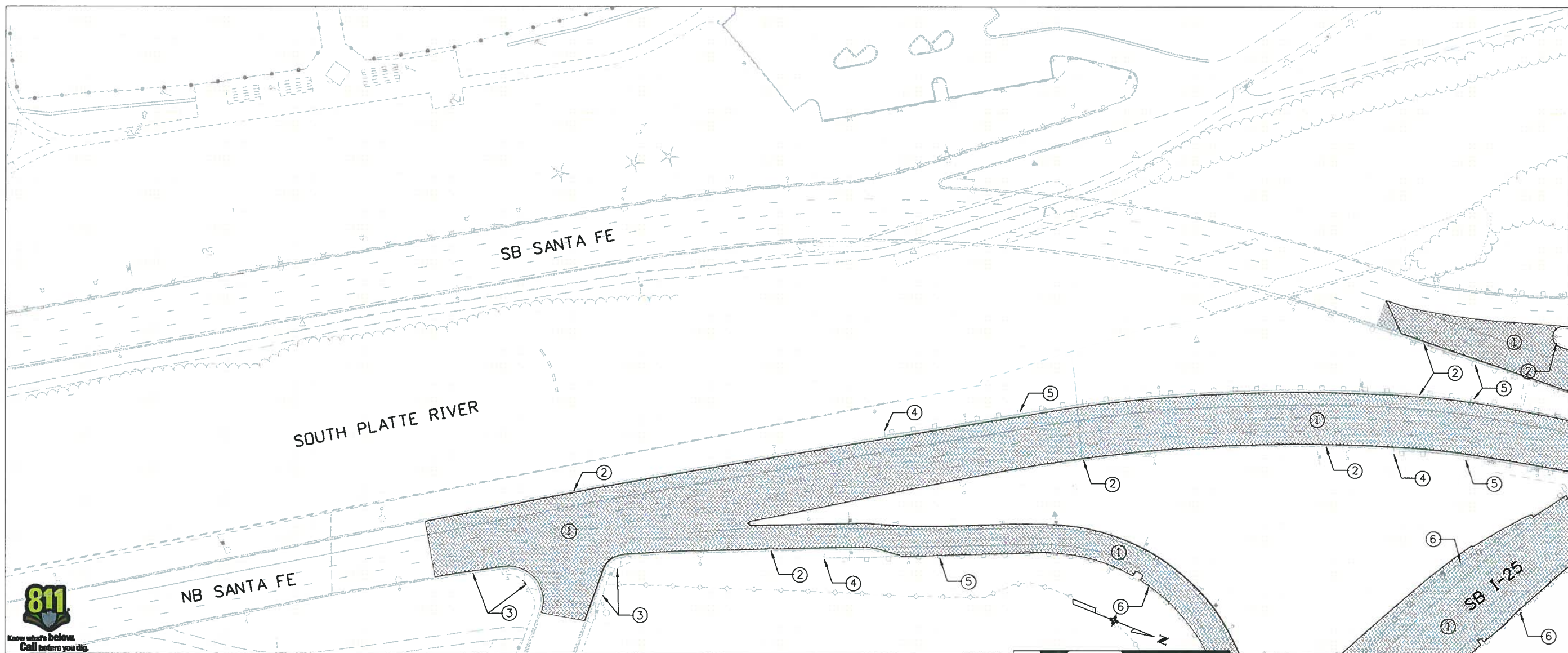
LEGEND

- ① REMOVE ASPHALT MAT
- ② REMOVE CURB & GUTTER
- ③ REMOVE CURB, GUTTER, WALK, AND RAMP
- ④ REMOVE END ANCHORAGE
- ⑤ REMOVE GUARDRAIL TYPE 3
- ⑥ REMOVE TYPE 7 BARRIER

REMOVAL OF ASPHALT MAT

ROADWAY REMOVAL NOTES

1. THESE ROADWAY REMOVAL PLANS ONLY DEPICT ROADWAY REMOVAL BID ITEMS IDENTIFIED ON THE ROADWAY REMOVAL TABULATION SHEETS. SEE OTHER PLAN SHEETS AND TABULATION SHEETS FOR VARIOUS OTHER REQUIRED REMOVALS FOR THE PROJECT.
2. ALL ROADWAY ITEMS IDENTIFIED AND TABULATED TO BE REMOVED SHALL BE REMOVED FROM THE PROJECT SITE, AND MAY NOT BE BURIED ON-SITE UNLESS AUTHORIZED BY THE ENGINEER.
3. ALL CUTTING OF PAVEMENT, CURB AND GUTTER, SIDEWALK, AND OTHER ROADWAY ITEMS TO BE BY SAW CUT ONLY. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE REMOVAL ITEMS.
4. ALL CONFLICTING DELINEATORS WITHIN THE PROJECT SITE SHALL BE REMOVED BY THE CONTRACTOR. DELINEATORS REQUIRED TO BE REMOVED HAVE NOT BEEN SPECIFICALLY IDENTIFIED.
5. SEE THE CONSTRUCTION PHASING PLANS FOR OTHER ROADWAY ITEMS REQUIRED TO BE REMOVED TO ACCOMMODATE THE CONSTRUCTION PHASING.
6. SEE ROADWAY PLANS FOR REMOVAL LIMITS.

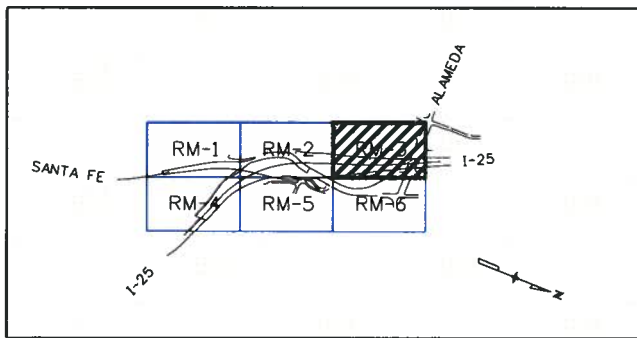


MATCH SHEET RM-2

MATCH SHEET RM-4

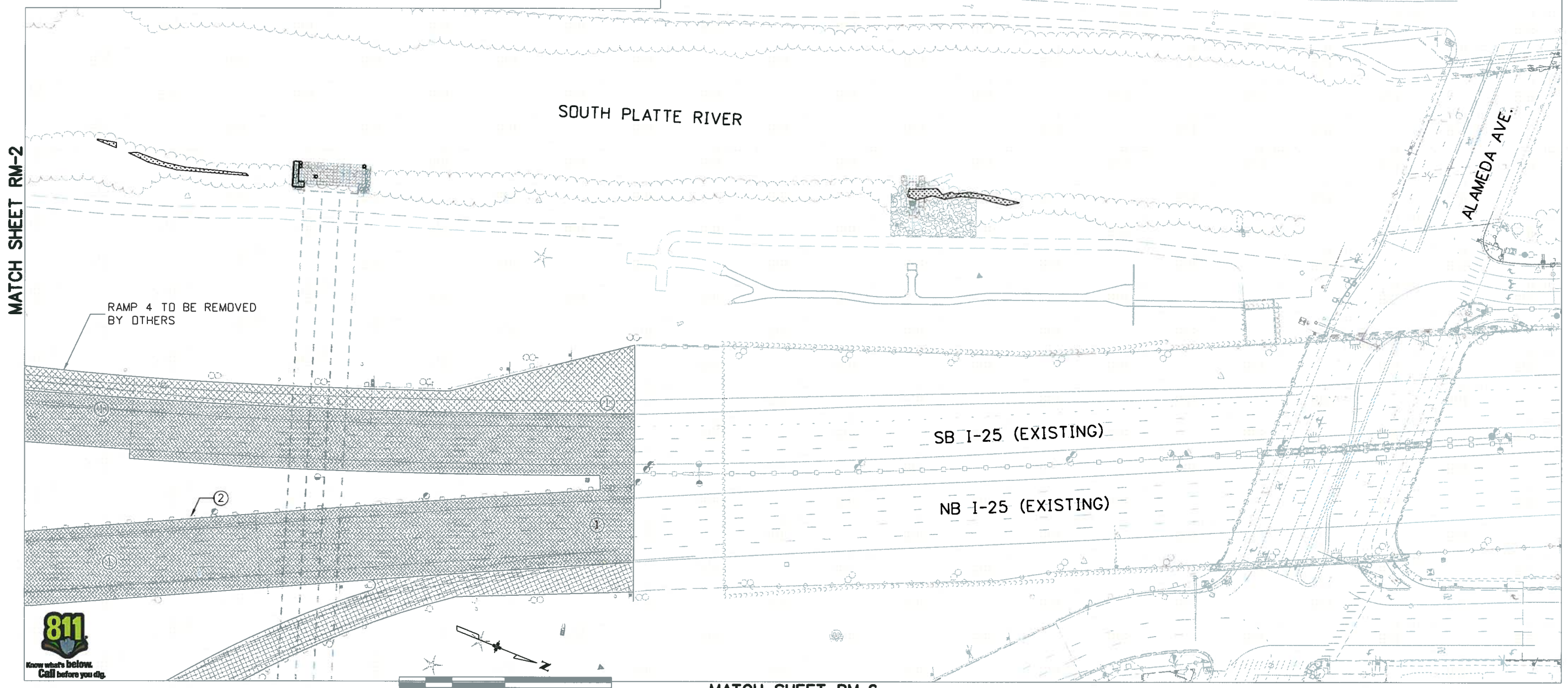
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Unit Information Unit Leader Initials					Void:		Detailer: SYS		Sheet Number 85 A		
Know what's below. Call before you dig.				2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		Region 6 RLB		Sheet Subset: ROADWAY Subset Sheets: RM-1 of 6			

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MAPKEY

- LEGEND**
- ① REMOVE ASPHALT MAT
 - ② REMOVE TYPE 7 BARRIER
-
- REMOVAL OF ASPHALT MAT
 - REMOVAL OF ASPHALT MAT (BY OTHERS)



MATCH SHEET RM-6

Print Date: 11/19/2010		<table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>12/3/2010</td> <td>REISSUED SHEET</td> <td>SPG</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Sheet Revisions			Date:	Comments	Init.	12/3/2010	REISSUED SHEET	SPG							<table border="1"> <tr> <td colspan="2">As Constructed</td> <td colspan="2">I-25/SANTA FE INTERCHANGE</td> <td rowspan="2">Project No./Code</td> </tr> <tr> <td colspan="2">No Revisions:</td> <td colspan="2">ROADWAY REMOVAL PLAN</td> </tr> <tr> <td colspan="2">Revised:</td> <td>Designer: SPG</td> <td>Structure</td> <td rowspan="2">17783</td> </tr> <tr> <td colspan="2">Void:</td> <td>Detailer: SYS</td> <td>Numbers</td> </tr> <tr> <td colspan="2"> </td> <td>Sheet Subset: ROADWAY</td> <td>Subset Sheets: RM-3 of 6</td> <td>Sheet Number 87 A</td> </tr> </table>		As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code	No Revisions:		ROADWAY REMOVAL PLAN		Revised:		Designer: SPG	Structure	17783	Void:		Detailer: SYS	Numbers			Sheet Subset: ROADWAY	Subset Sheets: RM-3 of 6	Sheet Number 87 A
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File Name: 16311DES_PH2_Removal3.dgn		<table border="1"> <tr> <td colspan="2">Colorado Department of Transportation</td> <td colspan="2">2000 South Holly Street</td> <td rowspan="2"> </td> </tr> <tr> <td colspan="2">Region 6</td> <td colspan="2">Denver, CO 80222</td> </tr> <tr> <td colspan="2"> </td> <td colspan="2">Phone: 303-972-9112 FAX: 303-972-9114</td> <td>RLB</td> </tr> </table>		Colorado Department of Transportation		2000 South Holly Street			Region 6		Denver, CO 80222				Phone: 303-972-9112 FAX: 303-972-9114		RLB	BR 0252-407																									
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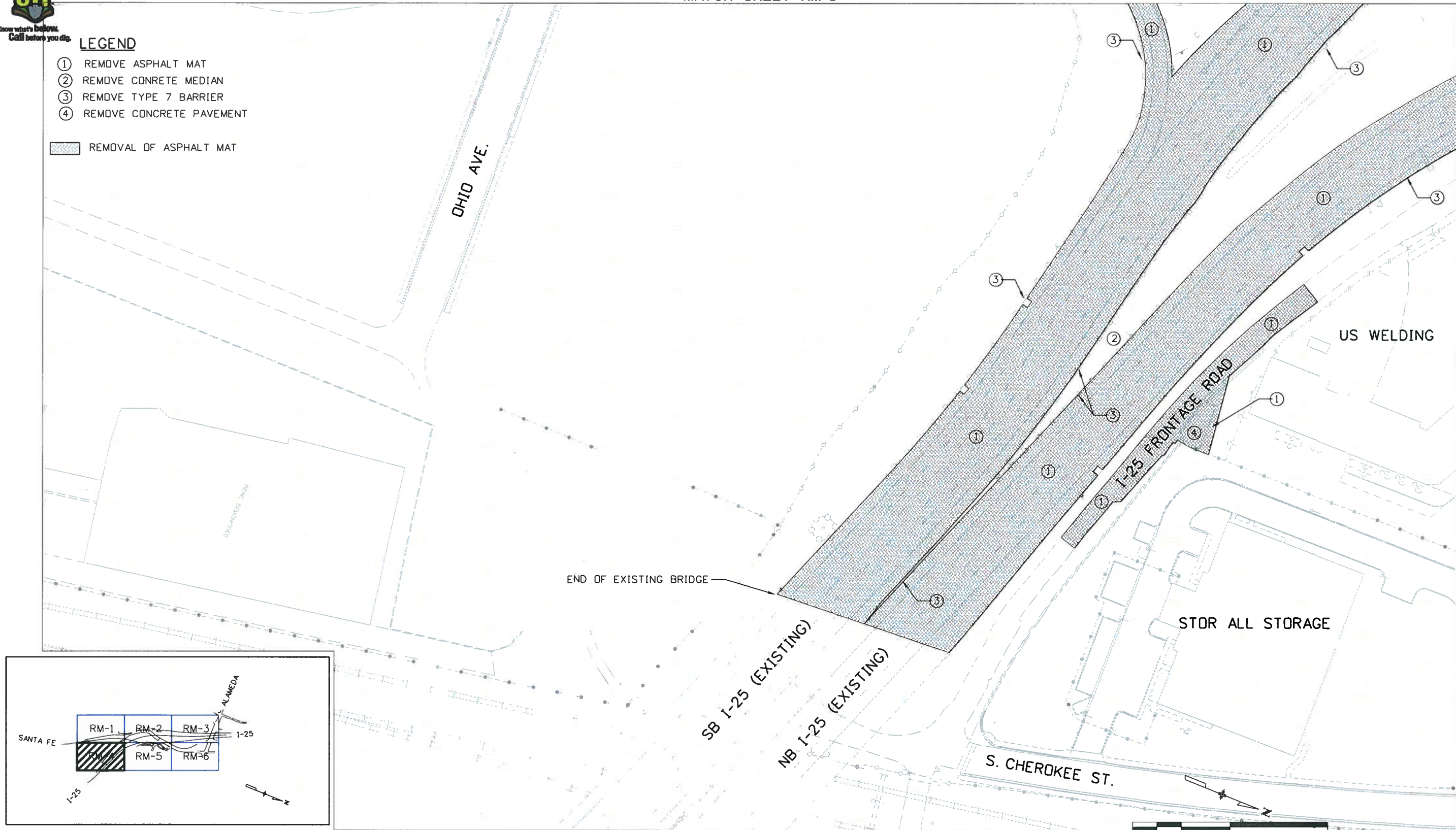
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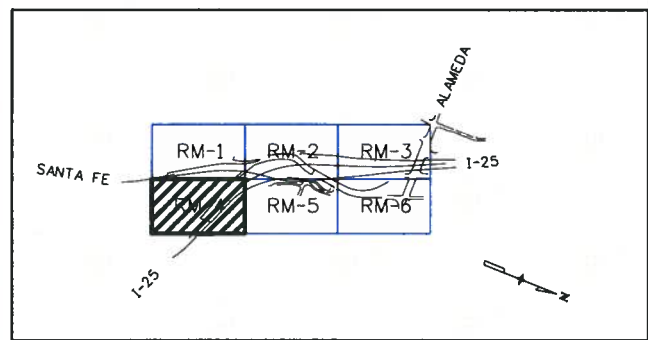
- ① REMOVE ASPHALT MAT
- ② REMOVE CONCRETE MEDIAN
- ③ REMOVE TYPE 7 BARRIER
- ④ REMOVE CONCRETE PAVEMENT

REMOVAL OF ASPHALT MAT

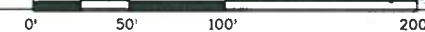
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MAPKEY



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 Denver, CO 80222
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Region 6 RLB

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ROADWAY REMOVAL PLAN			
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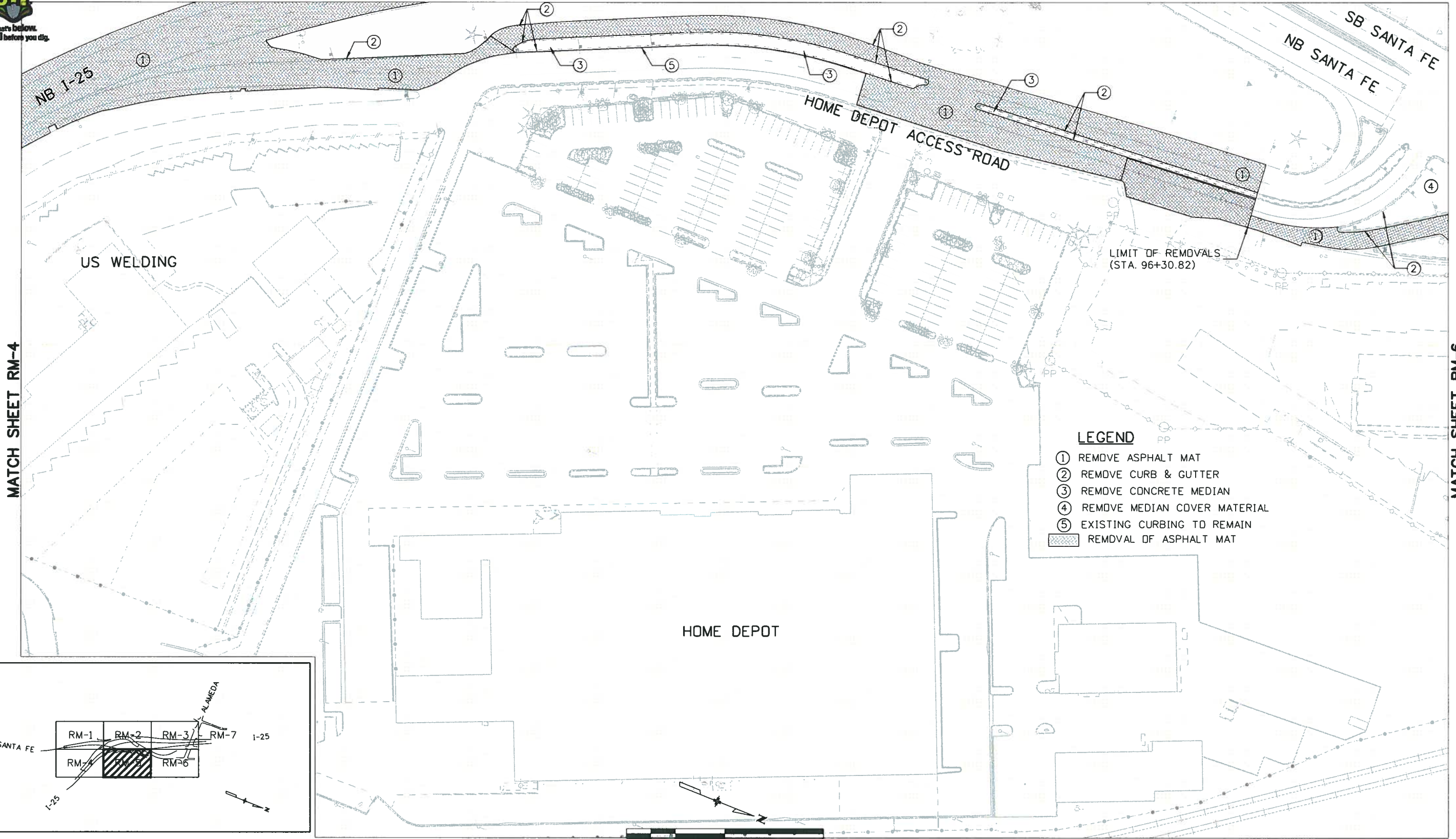
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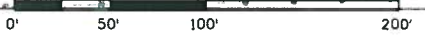
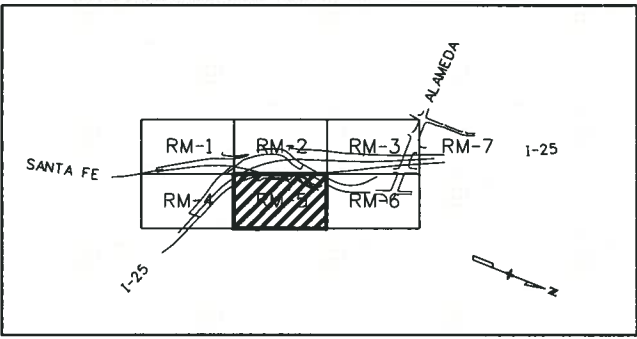
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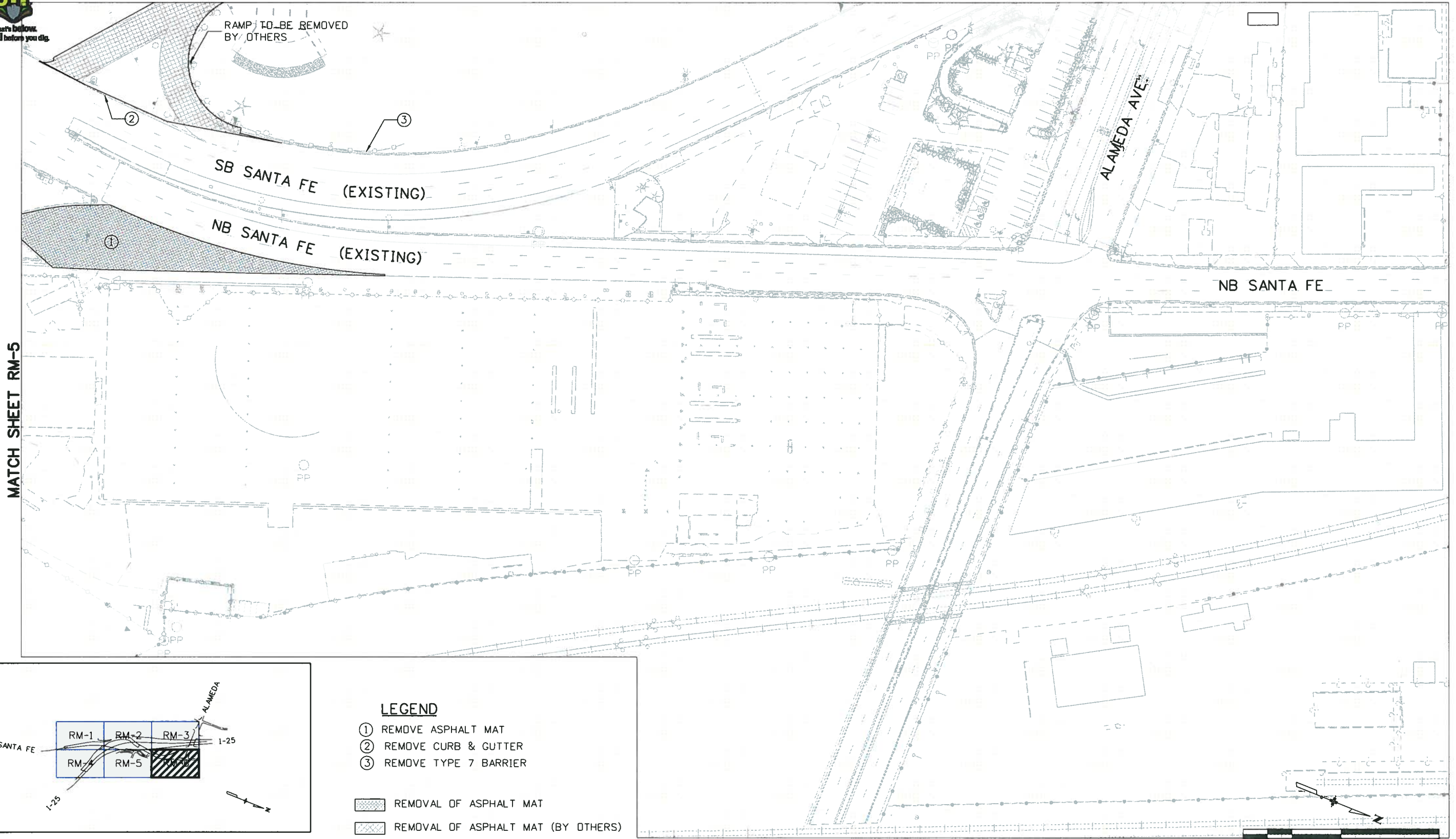
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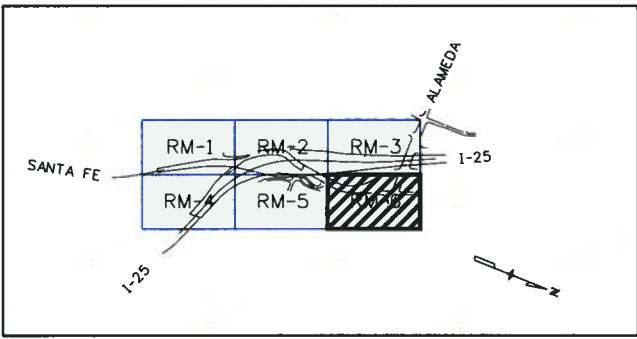
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Know what's below.
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MATCH SHEET RM-3



MATCH SHEET RM-5



MAPKEY

LEGEND

- ① REMOVE ASPHALT MAT
 - ② REMOVE CURB & GUTTER
 - ③ REMOVE TYPE 7 BARRIER
-
- REMOVAL OF ASPHALT MAT
 - REMOVAL OF ASPHALT MAT (BY OTHERS)



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 ROADWAY REMOVAL PLAN**

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GENERAL ENVIRONMENTAL NOTES:

1. IF CONSTRUCTION IS TO OCCUR DURING THE NESTING SEASON FOR MIGRATORY BIRDS (BETWEEN APRIL 1 AND AUGUST 31), ALL NESTS NEED TO BE KNOCKED DOWN IN TREES IDENTIFIED FOR REMOVAL PRIOR TO APRIL 1 AND THEN EVERY THREE (3) DAYS UNTIL CONSTRUCTION BEGINS. THIS INCLUDES SWALLOW NESTS ON THE BRIDGE STRUCTURE AND NESTS IN TREES THAT ARE SCHEDULED TO BE REMOVED. BIRDS THAT BUILD NESTS DURING CONSTRUCTION DO SO OF THEIR OWN ACCORD AND THOSE NESTS DO NOT NEED TO BE KNOCKED DOWN. IF CONSTRUCTION BEGINS OUTSIDE OF THE NESTING SEASON, NESTS DO NOT NEED TO BE KNOCKED DOWN. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE SECTION 201 CLEARING AND GRUBBING WORK.

2. THERE ARE SEVERAL AREAS OF PALEONTOLOGICAL CONCERN WITHIN THE LIMITS OF THIS PROJECT, WITHIN WHICH PROJECT EXCAVATIONS COULD UNCOVER FOSSILS. THE CONTRACTOR WILL COMPLY WITH THE PROJECT SPECIAL SECTION 107 SPECIFICATION. WHEN PROJECT EXCAVATION IS ANTICIPATED, THE CDOT PALEONTOLOGIST, STEVE WALLACE, WILL BE NOTIFIED A MINIMUM OF 10 WORKING DAYS IN ADVANCE. THE PALEONTOLOGIST CAN BE CONTACTED AT (303) 757-9632 (OFFICE) OR (303) 562-4201 (CELL). CONSTRUCTION MONITORING WILL LIKELY BE INTERMITTENT, WITH ACTUAL LOCATIONS AND DURATION OF MONITORING DETERMINED ON SITE BY THE CDOT PALEONTOLOGIST AS CONSTRUCTION PROGRESSES.

3. THE CONTRACTOR SHALL PERFORM CONSTRUCTION ACTIVITIES TO AVOID UNNECESSARY IMPACTS TO EXISTING VEGETATION, INCLUDING TREES AND SHRUBS. PROTECTIVE FENCING WILL BE USED TO IDENTIFY THESE AREAS, AS NOTED ON THE EROSION CONTROL SHEETS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT THEIR OWN EXPENSE. TREES NOT DESIGNATED FOR REMOVAL WILL BE PROTECTED BY FENCE (PLASTIC). LOCATION OF TREE PROTECTION SHALL BE DIRECTED BY THE CDOT REGION 6 LANDSCAPE ARCHITECT AND ENGINEER. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT OR DISTURB ANY AREA NOT APPROVED BY THE ENGINEER.

4. THE CONTRACTOR SHALL PROPERLY REVEGETATE ALL DISTURBED AREAS. NATIVE GRASSES AND FORBS SHOULD BE USED ON ALL CDOT RIGHT-OF-WAY FOR REVEGETATIVE PURPOSES. DISTURBED AREAS WILL BE RECLAIMED AS SOON AS CONSTRUCTION IS FINISHED AND SEEDED USING A PERMANENT SEED MIXTURE AS DETAILED IN THE STORMWATER MANAGEMENT PLAN (SWMP). IF AREAS ARE COMPLETED AND PERMANENT SEEDING CAN NOT OCCUR DUE TO THE TIME OF YEAR, MULCH AND MULCH TACKIFIER WILL BE USED FOR TEMPORARY EROSION CONTROL UNTIL SEEDING CAN OCCUR. RESEEDING WILL CONSIST OF NATIVE GRASSES AND FORBS, AND SEEDING WILL BE PHASED THROUGHOUT CONSTRUCTION (AS APPROPRIATE) TO MINIMIZE THE AMOUNT OF OPEN GROUND. FERTILIZER WILL NOT BE USED IN SEEDED AREAS BECAUSE IT CAN ENHANCE THE GROWTH OF NOXIOUS WEEDS AT THE EXPENSE OF DESIRED VEGETATION.

5. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DUST CONTROL PLAN THAT DETAILS METHODS FOR MITIGATION OF FUGITIVE DUST RESULTING FROM THE WORK, INCLUDING DUST FROM THE BRIDGE. THE DUST CONTROL PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO WORK COMMENCEMENT. PREPARATION OF THIS PLAN SHALL BE INCLUDED IN THE COST OF THE WORK AND SHALL BE PAID FOR SEPARATELY.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. WATER FOR A DUST PALLIATIVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. CONTAMINATED GROUNDWATER CANNOT BE USED AS A DUST PALLIATIVE.

DUST CONTROL FOR THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.

GENERAL ENVIRONMENTAL NOTES CONT'D:

6. A STATE DEMOLITION PERMIT (ISSUED BY CDPHE AIR POLLUTION CONTROL DIVISION) WILL BE REQUIRED. CONTRACTOR MUST OBTAIN THE PERMIT AT LEAST TEN (10) BUSINESS DAYS PRIOR TO RELATED DEMOLITION. CDOT PROPERTY MANAGEMENT HAS PREVIOUSLY TESTED THE STRUCTURES FOR ASBESTOS AND LEAD. THE RESULTS OF THESE TESTS SHALL BE INCLUDED BY THE CONTRACTOR AS A PART OF THE APPLICATION. TEST RESULTS CAN BE FOUND IN THE ASBESTOS AND LIMITED LEAD BASED INSPECTION REPORT IN REVISION OF SECTION 102 PROJECT PLANS AND OTHER DATA. A PARTIALLY COMPLETED DEMOLITION PERMIT APPLICATION (WITH THE ASBESTOS INSPECTOR'S CERTIFICATION AND SIGNATURE) CAN BE OBTAINED FROM THE ASBESTOS INSPECTION CONTRACTOR- CONTACT INFORMATION SHOWN ON THE ASBESTOS INSPECTION REPORT PROVIDED TO THE CONTRACTOR.

7. THE CONTRACTOR IS ADVISED THAT SOIL AND GROUNDWATER HAS BEEN TESTED AND FOUND TO BE CONTAMINATED IN VARIOUS LOCATIONS WITHIN THE PROJECT LIMITS. A SUMMARY OF THE TEST RESULTS CAN BE FOUND IN THE MATERIALS MANAGEMENT RECOMMENDATION REPORT LISTED IN REVISION OF SECTION 102 PROJECT PLANS AND OTHER DATA.

8. A CDPHE DEWATERING PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) WATER QUALITY CONTROL DIVISION (WQCD).

9. A STATE CERTIFIED ASBESTOS BUILDING INSPECTOR (CABI) SHALL INSPECT FOR THE PRESENCE OF ASBESTOS WHEN BUILDING/CONSTRUCTION DEBRIS IS ENCOUNTERED. IF ASBESTOS IS FOUND, ALL FURTHER WORK (SOIL-RELATED) SHALL PROCEED IN ACCORDANCE WITH THE SECTION 250, ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT, THE AIR QUALITY CONTROL COMMISSION REGULATION NO. 8 PART B, AND THE CDPHE HAZARDOUS MATERIALS WASTE MANAGEMENT DIVISION SECTION 5.5 OF THE REGULATIONS (6 CCR 1007-2). INSPECTION AND MANAGEMENT WILL BE PAID FOR UNDER FORCE ACCOUNT ENVIRONMENTAL, HEALTH AND SAFETY MANAGEMENT.

10. GROUNDWATER MONITORING WELLS ARE LOCATED WITHIN PROJECT LIMITS. SEVERAL WELLS AS SHOWN ON THE PLANS WILL BE ABANDONED (SEE TABLE BELOW). ABANDONMENT SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 202.02 OF THE STANDARD SPECIFICATIONS. CARE SHALL BE TAKEN NOT TO DISTURB THE WELLS TO BE PROTECTED. ACCESS TO THE PROTECTED WELL SHALL BE MAINTAINED. REFER TO ENVIRONMENTAL PLANS FOR WELL LOCATIONS. TO ESTABLISH A UNIT PRICE, THE PROJECT ASSUMES ONE(1) GROUNDWATER MONITORING WELL WILL BE RESET IN ACCORDANCE WITH SECTION 210 RESET STRUCTURES.

WELL NAME	STATUS (PROTECT/ABANDON)
MW-1	ABANDON
MW-2	ABANDON
MW-3	ABANDON
MW-4	ABANDON
MW-5	ABANDON
SPR-US	PROTECT
RW89-14	ABANDON
RW92-20	ABANDON
HMMW-1	ABANDON

GENERAL ENVIRONMENTAL NOTES, CONT'D:

11. THIS PROJECT IS COVERED UNDER A COLORADO DISCHARGE PERMIT SYSTEM STORMWATER CONSTRUCTION PERMIT (CDPS-SCP). ALL PERMIT REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR. CDOT WILL OBTAIN THE CDPS-SCP PRIOR TO ADVERTISEMENT.

12. IF BURIED CULTURAL RESOURCES ARE EXPOSED DURING CONSTRUCTION, ALL WORK IN THE VICINITY OF THE FIND SHALL CEASE IMMEDIATELY AND THE CDOT SENIOR STAFF ARCHAEOLOGIST SHALL BE CONTACTED AT 303-757-9631 TO EVALUATE THE NATURE AND EXTENT OF THE DISCOVERY. WORK WILL NOT RESUME IN THAT AREA UNTIL THE ARCHAEOLOGIST, IN COORDINATION WITH THE PROJECT ENGINEER, HAS PROVIDED CLEARANCE TO PROCEED.

13. AN AIR POLLUTION EMISSION NOTICE (ISSUED BY CDPHE- AIR POLLUTION CONTROL DIVISION) WILL LIKELY BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE APPLICATION FOR AND MAINTENANCE OF THIS PERMIT.

NOXIOUS WEEDS


NOXIOUS WEED MANAGEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FOLLOW THE PROCEDURES IDENTIFIED IN PROJECT SPECIAL SECTION PROVISION 217 HERBICIDE TREATMENT. ONLY A COLORADO LICENSED SUPERVISOR OR CERTIFIED OPERATOR WILL APPLY HERBICIDES. ALL HERBICIDES WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

IN ADDITION TO THE SPECIFIC MANAGEMENT ACTIONS LISTED FOR EACH SPECIES IN PROJECT SPECIAL PROVISION SECTION 217-HERBICIDE TREATMENT, THE FOLLOWING PREVENTATIVE MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE SPREAD OF NOXIOUS WEEDS IN ALL CONSTRUCTION AREAS:

- THE AREA OF GROUND DISTURBANCE WILL BE KEPT TO THE MINIMUM NECESSARY.
- MINIMIZE IMPORTED TOPSOIL DURING CONSTRUCTION.
- ALL EQUIPMENT WILL BE THOROUGHLY CLEANED BEFORE ENTERING AND EXITING THE PROJECT AREA. CLEANING AND DISPOSAL OF WEED INFESTED SOIL SHALL BE INCLUDED IN THE COST OF ITEM 626 MOBILIZATION.
- AREAS WITH DENSE NOXIOUS WEED POPULATIONS WILL NOT BE USED FOR TOPSOIL SALVAGE.
- ALL AREAS PLANNED FOR TOPSOIL SALVAGE WILL BE TREATED FOR NOXIOUS WEEDS PRIOR TO SALVAGE.
- ONLY HERBICIDES APPROVED FOR USE IN WATER WILL BE USED IN OR WITHIN 25 FEET OF WETLANDS OR OTHER WATER FEATURES.
- BROADCAST HERBICIDE SPRAYING WILL ONLY BE APPROVED THROUGH WRITTEN CONSENT OF THE ENGINEER AND SHALL BE APPLIED WHEN WEATHER CONDITIONS (INCLUDING WIND) ARE SUITABLE FOR SUCH WORK.
- ENGINEER WILL BE NOTIFIED 24 HOURS PRIOR TO HERBICIDE APPLICATION.
- THE PROJECT AREA WILL BE SURVEYED FOR NOXIOUS WEEDS THROUGHOUT CONSTRUCTION TO IDENTIFY AND TREAT WEEDS.

TREE REMOVALS

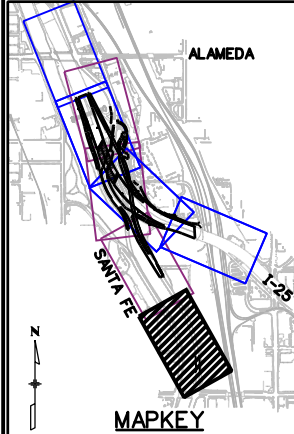
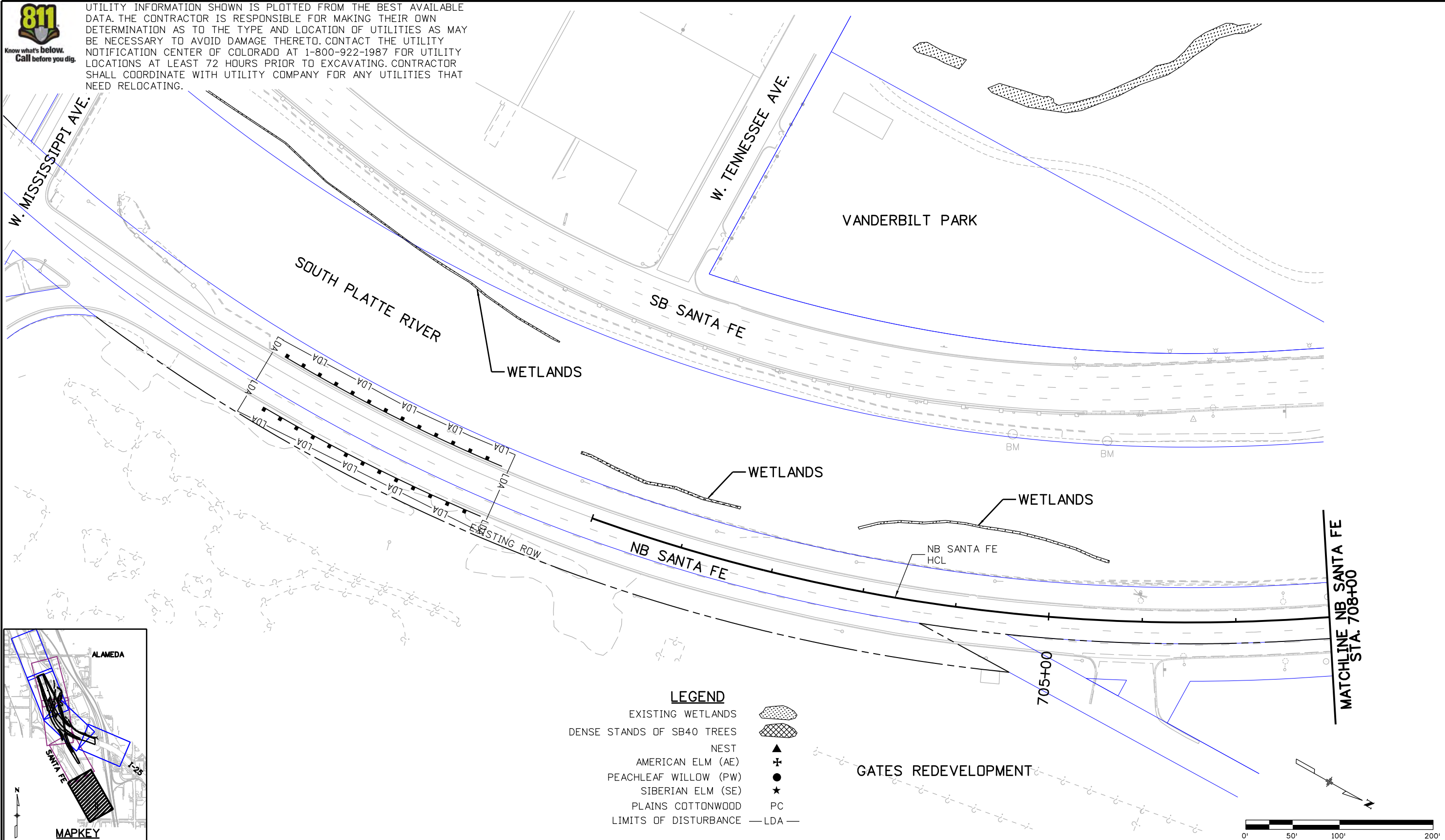
	IMPACTED (INCLUDING PREVIOUS STAGE)	ON-SITE TREE REPLACEMENT	REMAINING TREES MITIGATED THROUGH THE GREENWAY FOUNDATION
PREVIOUS STAGE (1.1)	58	33	25
UPLAND TREES	90	0	90
SB40 TREES	13	0	13

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Unit Information Unit Leader Initials					Void:	Detailer: RSA		Sheet Subset: MISC	Subset Sheets: EP-1 of 10

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 6300 South Syracuse Way
 Centennial, CO 80111

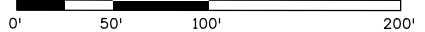


UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



LEGEND

EXISTING WETLANDS	
DENSE STANDS OF SB40 TREES	
NEST	
AMERICAN ELM (AE)	
PEACHLEAF WILLOW (PW)	
SIBERIAN ELM (SE)	
PLAINS COTTONWOOD	
LIMITS OF DISTURBANCE	



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Detailer:	RSA	Numbers	
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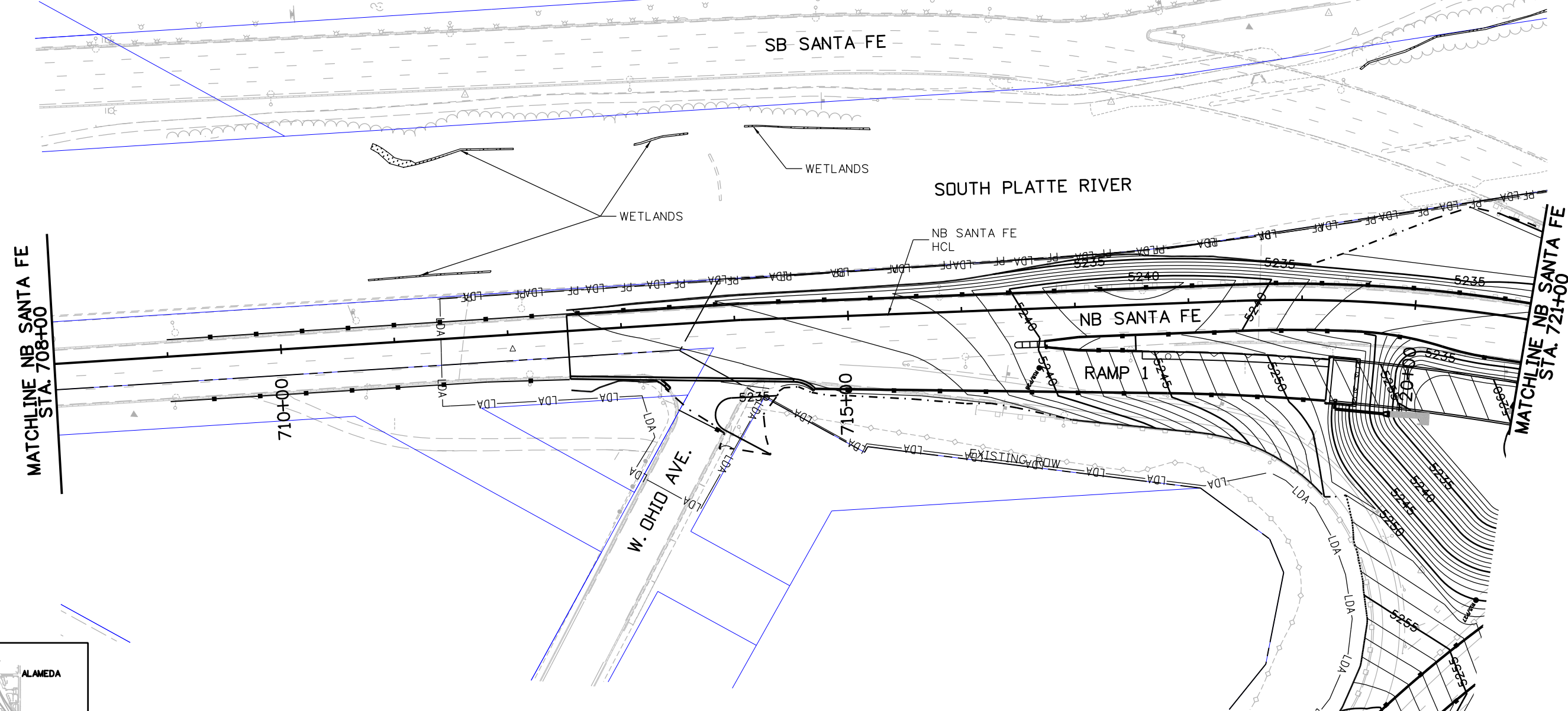
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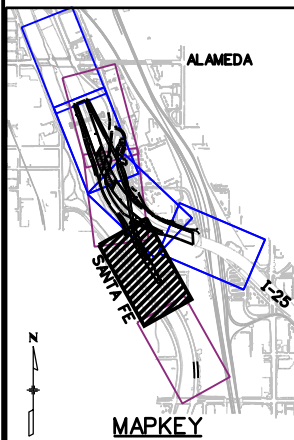
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VANDERBILT PARK



MATCHLINE NB SANTA FE STA. 708+00

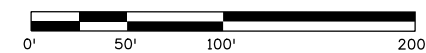
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NOTES:
INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER

LEGEND

- EXISTING WETLANDS
- DENSE STANDS OF SB40 TREES
- NEST
- AMERICAN ELM (AE)
- PEACHLEAF WILLOW (PW)
- SIBERIAN ELM (SE)
- PLAINS COTTONWOOD
- LIMITS OF DISTURBANCE
- PLASTIC CONSTRUCTION FENCE



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LILLEVIG
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I-25/SANTA FE INTERCHANGE
SB40 TREES, WETLANDS, MIGRATORY
BIRD NEST PLAN

Designer:	KAB	Structure Numbers	
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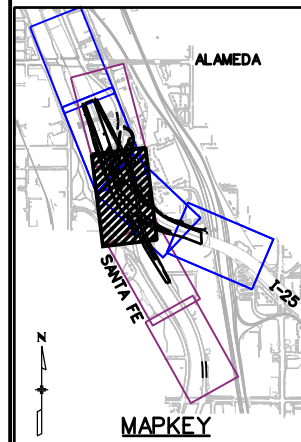
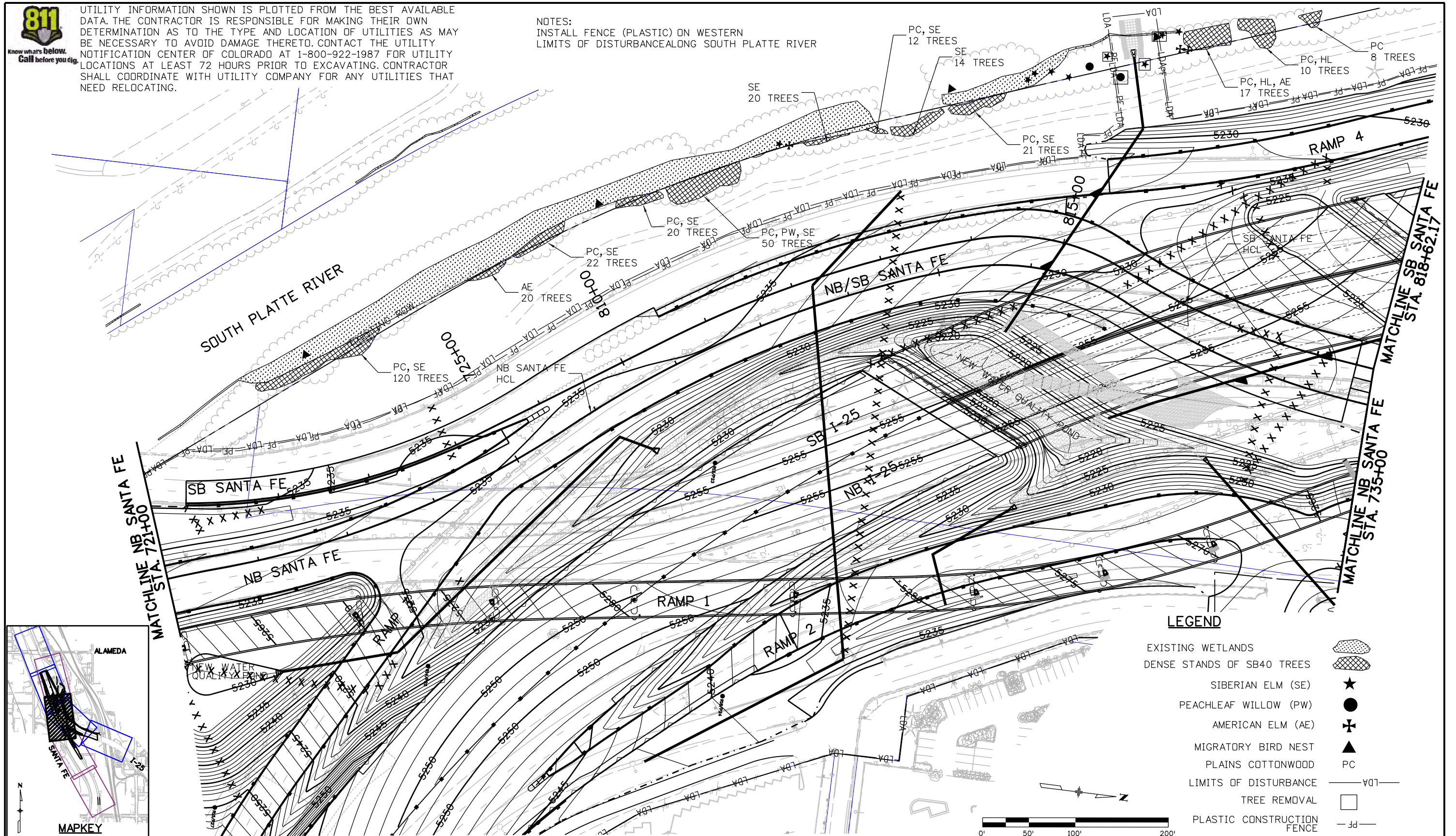
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Sheet Number 93



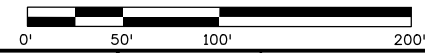
UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

NOTES:
INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER



LEGEND

- EXISTING WETLANDS
- DENSE STANDS OF SB40 TREES
- SIBERIAN ELM (SE)
- PEACHLEAF WILLOW (PW)
- AMERICAN ELM (AE)
- MIGRATORY BIRD NEST
- PLAINS COTTONWOOD
- LIMITS OF DISTURBANCE
- TREE REMOVAL
- PLASTIC CONSTRUCTION FENCE



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File Name: 16311LAND_ENVI_PH2_Hab Plan4.dgn
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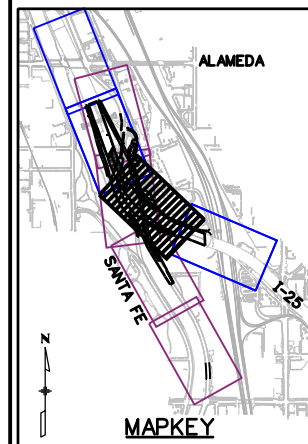
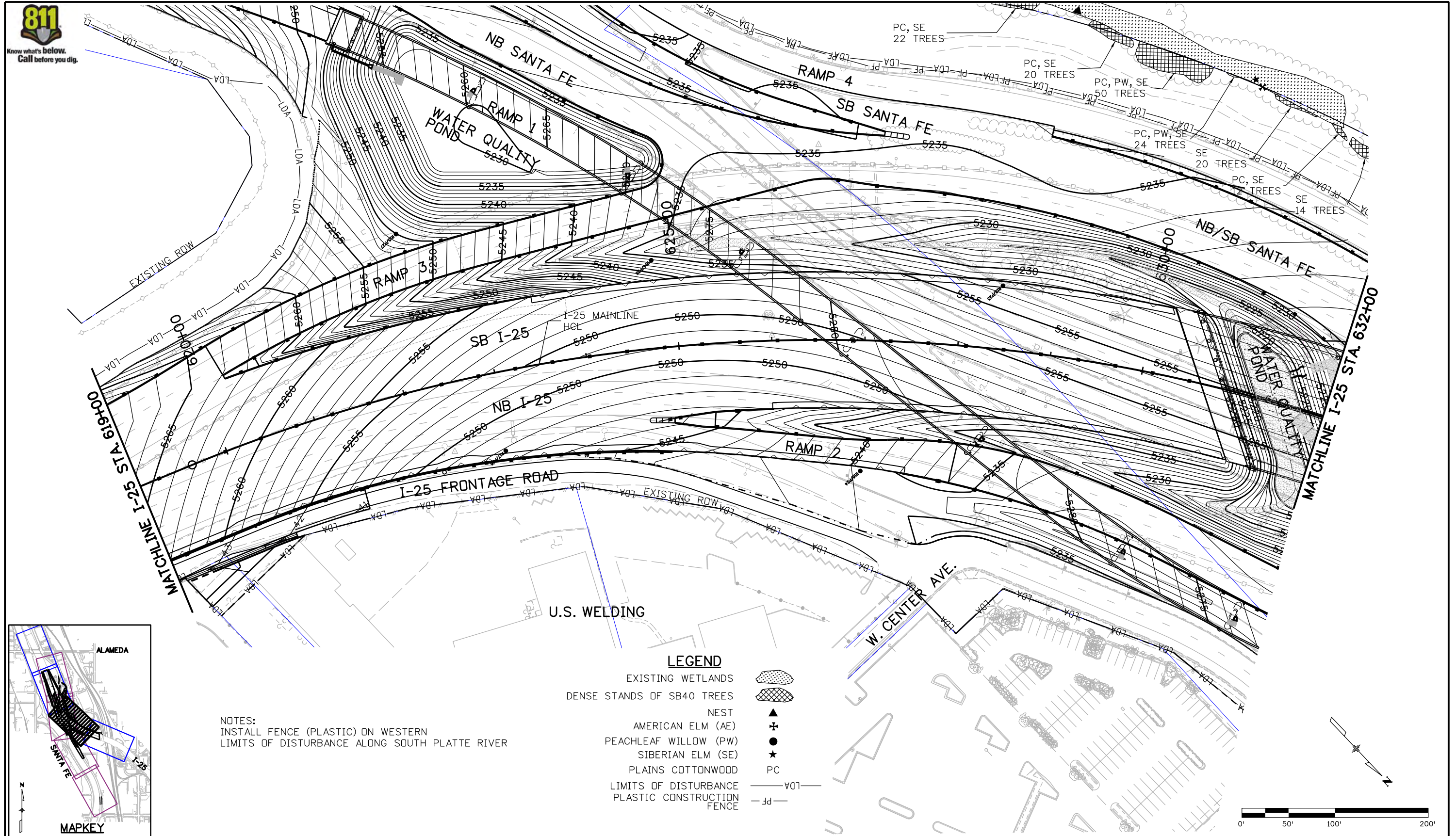
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I-25/SANTA FE INTERCHANGE SB40 TREES, WETLANDS, MIGRATORY BIRD NEST PLAN			
Designer:	KAB	Structure	
Detailer:	RSA	Numbers	
Sheet Subset:	MISC	Subset Sheets:	EP-4 of 10

Project No./Code
BR 0252-407
17783
Sheet Number 94

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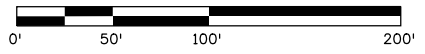
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NOTES:
 INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER

LEGEND

- EXISTING WETLANDS
- DENSE STANDS OF SB40 TREES
- NEST
- AMERICAN ELM (AE)
- PEACHLEAF WILLOW (PW)
- SIBERIAN ELM (SE)
- PLAINS COTTONWOOD (PC)
- LIMITS OF DISTURBANCE
- PLASTIC CONSTRUCTION FENCE



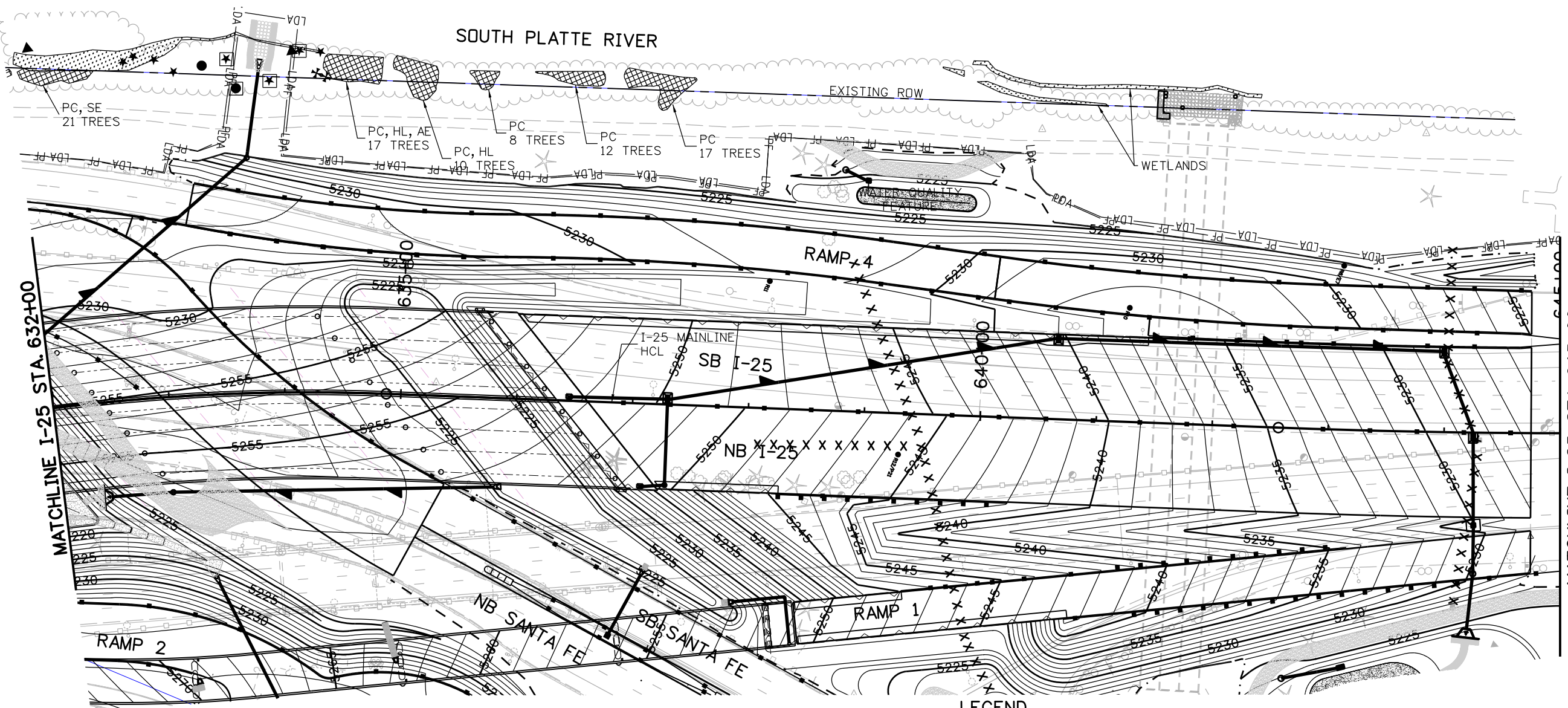
Print Date: 10/19/2010		Sheet Revisions		Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE SB40 TREES, WETLANDS, MIGRATORY BIRD NEST PLAN		Project No./Code	
File Name: 16311LAND_ENVI_PH2_Hab_Plan5.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		BR 0252-407		
Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB		Revised:		17783		
Unit Information Unit Leader Initials							Void:		Sheet Number 95		
 6300 South Syracuse Way Centennial, CO 80111								Designer: KAB Structure Numbers Detailer: RSA Sheet Subset: MISC Subset Sheets: EP-5 of 10			

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Know what's below.
Call before you dig.

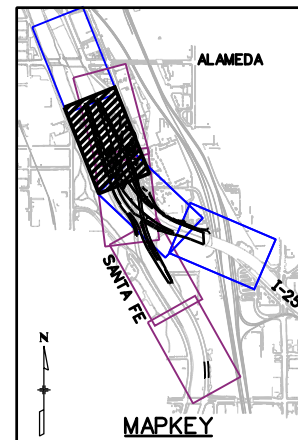
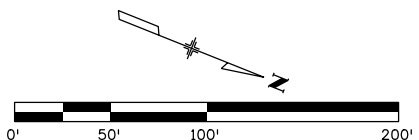
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NOTES:
INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER

LEGEND

- EXISTING WETLANDS
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- MIGRATORY BIRD NEST
- PLAINS COTTONWOOD PC
- LIMITS OF DISTURBANCE
- TREE REMOVAL
- PLASTIC CONSTRUCTION FENCE



Print Date: 10/19/2010

File Name: 16311LAND_ENVI_PH2_Hab_Plan6.dgn

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Region 6

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I-25/SANTA FE INTERCHANGE
SB40 TREES, WETLANDS, MIGRATORY
BIRD NEST PLAN

Designer:	KAB	Structure	
Detailer:	RSA	Numbers	
Sheet Subset:	MISC	Subset Sheets:	EP-6 of 10

Project No./Code

BR 0252-407

17783

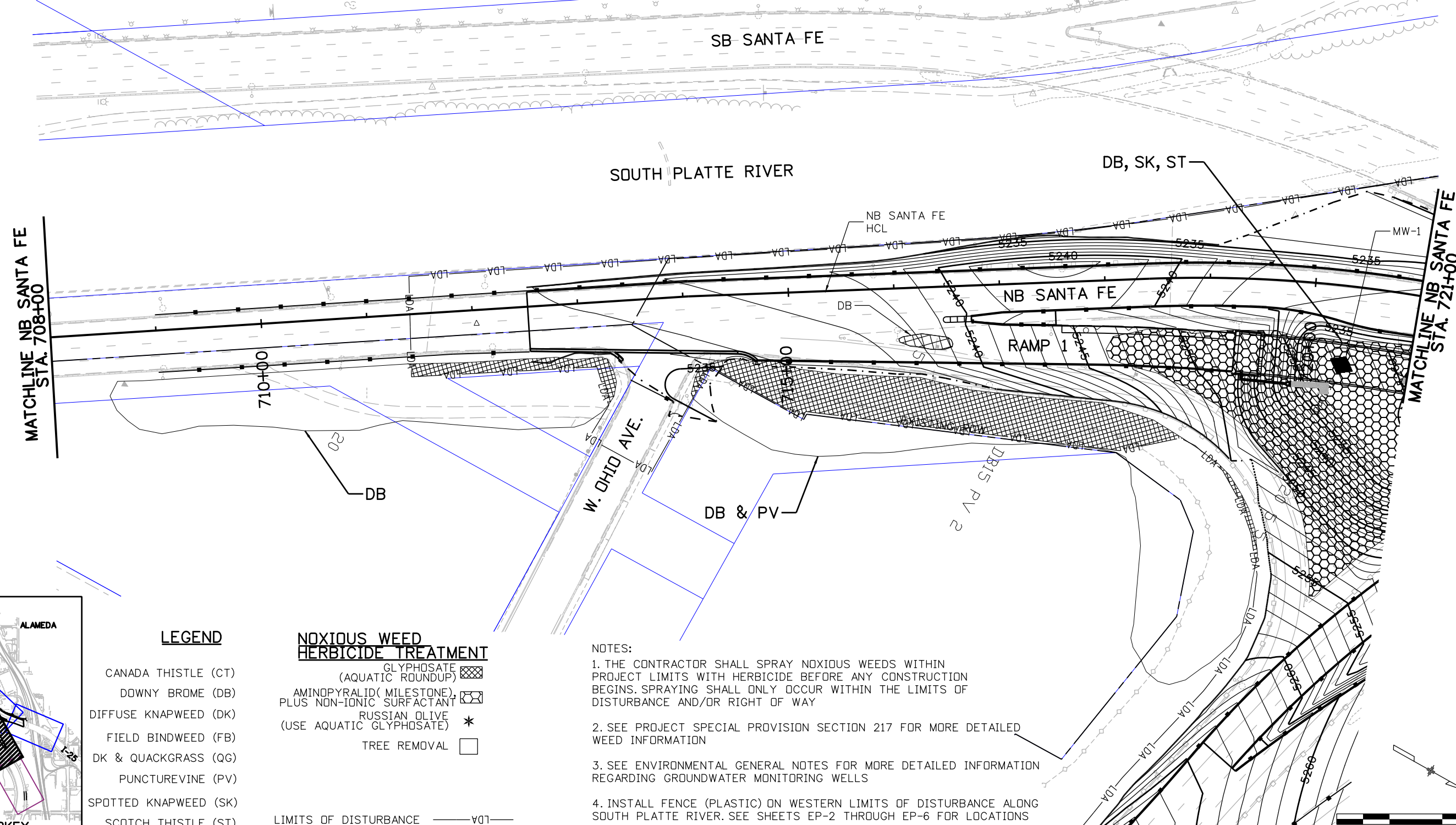
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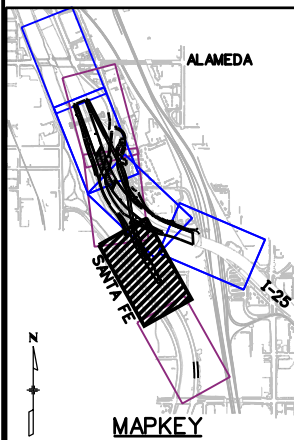
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VANDERBILT PARK



MATCHLINE NB SANTA FE STA. 708+00

MATCHLINE NB SANTA FE STA. 721+00



LEGEND

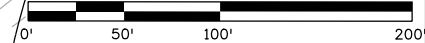
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- DOWNY BROME (DB)
- DIFFUSE KNAPWEED (DK)
- FIELD BINDWEED (FB)
- DK & QUACKGRASS (QG)
- PUNCTUREVINE (PV)
- SPOTTED KNAPWEED (SK)
- SCOTCH THISTLE (ST)

NOXIOUS WEED HERBICIDE TREATMENT

- GLYPHOSATE (AQUATIC ROUNDUP) [Cross-hatched symbol]
- AMINOPYRALID (MILESTONE), PLUS NON-IONIC SURFACTANT [Square with diagonal lines symbol]
- RUSSIAN OLIVE (USE AQUATIC GLYPHOSATE) *
- TREE REMOVAL [Empty square symbol]
- LIMITS OF DISTURBANCE — LDA —

NOTES:

1. THE CONTRACTOR SHALL SPRAY NOXIOUS WEEDS WITHIN PROJECT LIMITS WITH HERBICIDE BEFORE ANY CONSTRUCTION BEGINS. SPRAYING SHALL ONLY OCCUR WITHIN THE LIMITS OF DISTURBANCE AND/OR RIGHT OF WAY
2. SEE PROJECT SPECIAL PROVISION SECTION 217 FOR MORE DETAILED WEED INFORMATION
3. SEE ENVIRONMENTAL GENERAL NOTES FOR MORE DETAILED INFORMATION REGARDING GROUNDWATER MONITORING WELLS
4. INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER. SEE SHEETS EP-2 THROUGH EP-6 FOR LOCATIONS



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I-25/SANTA FE INTERCHANGE NOXIOUS WEED AND GROUNDWATER WELL PLAN	
Designer:	KAB
Detailer:	RSA
Sheet Subset:	MISC

Project No./Code
BR 0252-407
17783
Sheet Number 97

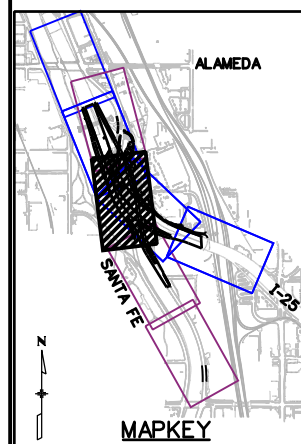
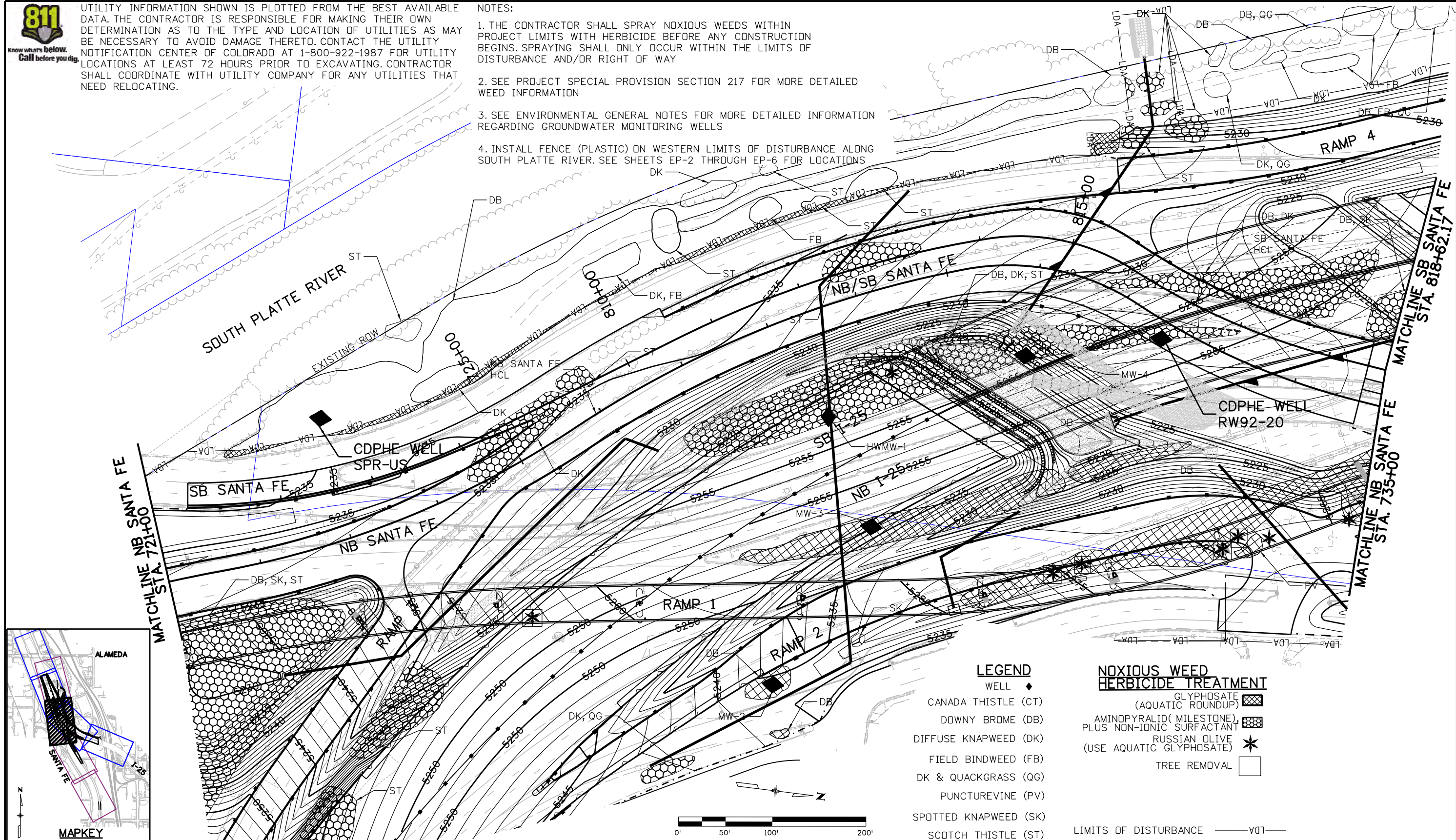
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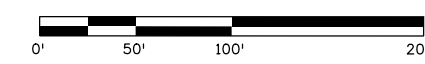
LEGEND

- WELL ◆
- CANADA THISTLE (CT)
- DOWNY BROME (DB)
- DIFFUSE KNAWEED (DK)
- FIELD BINDWEED (FB)
- DK & QUACKGRASS (QG)
- PUNCTUREVINE (PV)
- SPOTTED KNAWEED (SK)
- SCOTCH THISTLE (ST)

NOXIOUS WEED HERBICIDE TREATMENT

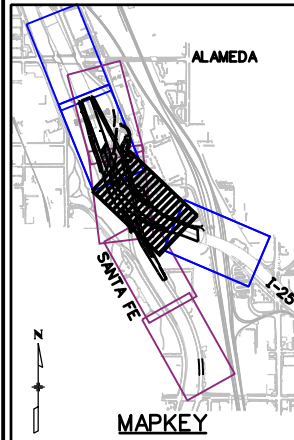
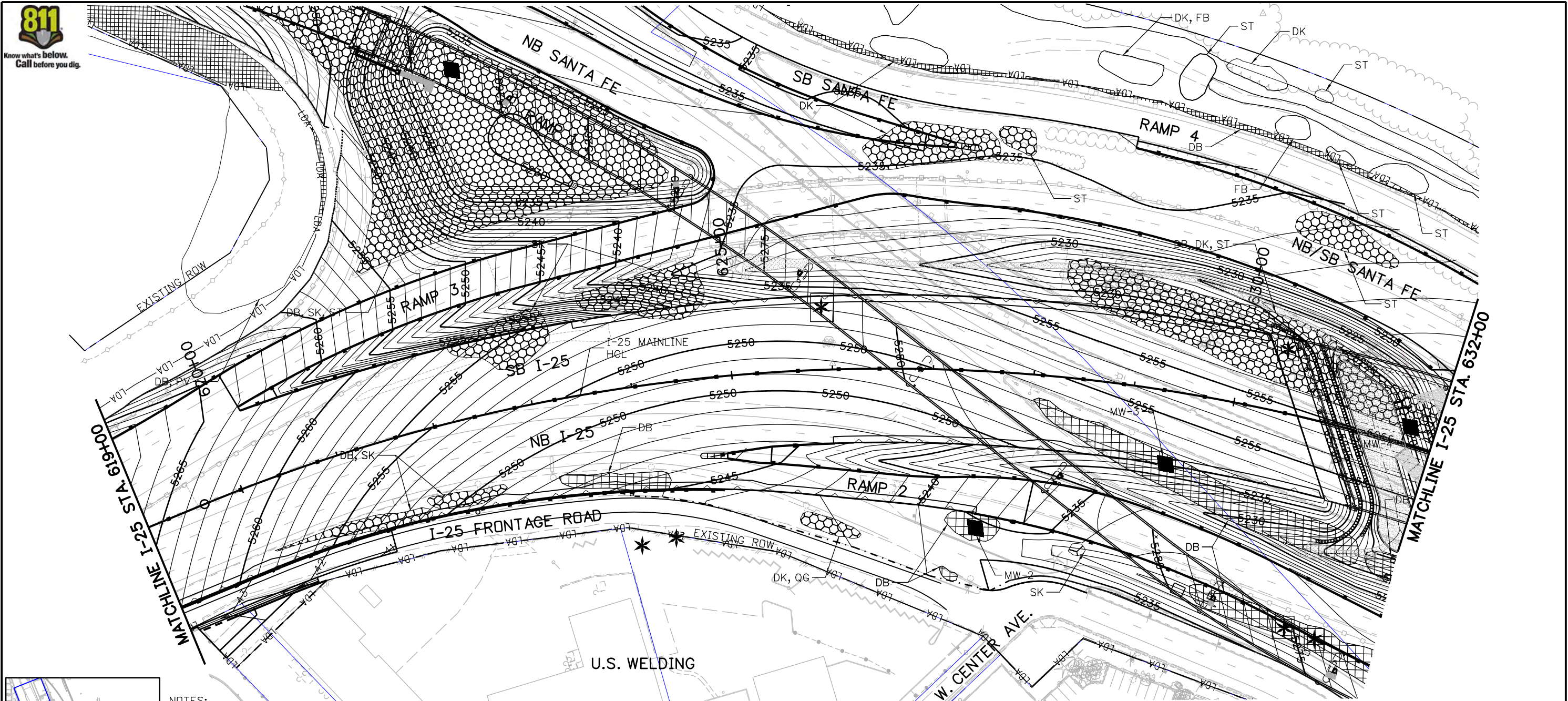
- GLYPHOSATE (AQUATIC ROUNDUP) [Cross-hatch pattern]
- AMINOPYRALID (MILESTONE), PLUS NON-IONIC SURFACTANT [Grid pattern]
- RUSSIAN OLIVE (USE AQUATIC GLYPHOSATE) [Star symbol]
- TREE REMOVAL [Square symbol]

LIMITS OF DISTURBANCE — V01 —



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File Name: 16311LAND_ENVI_PH2_Hab Plan8.dgn		Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		BR 0252-407		
Horiz. Scale: 1:100 Vert. Scale: As Noted					Region 6 RLB		Revised:		17783		
Unit Information Unit Leader Initials							Void:		Sheet Number 98		
FELSBERG HOLT & LILLEVIG 6300 South Syracuse Way Centennial, CO 80111								Designer: KAB Detailer: RSA Sheet Subset: MISC Subset Sheets: EP-8 of 10			

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NOTES:

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4. INSTALL FENCE (PLASTIC) ON WESTERN LIMITS OF DISTURBANCE ALONG SOUTH PLATTE RIVER. SEE SHEETS EP-2 THROUGH EP-6 FOR LOCATIONS

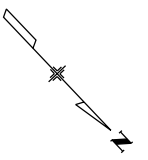
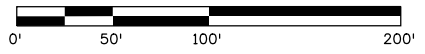
LEGEND

- WELL ◆
- CANADA THISTLE (CT)
- DOWNY BROME (DB)
- DIFFUSE KNAPWEED (DK)
- FIELD BINDWEED (FB)
- DK & QUACKGRASS (QG)
- PUNCTUREVINE (PV)
- SPOTTED KNAPWEED (SK)
- SCOTCH THISTLE (ST)

NOXIOUS WEED HERBICIDE TREATMENT

- GLYPHOSATE (AQUATIC ROUNDUP) [Cross-hatched box]
- AMINOPYRALID (MILESTONE) PLUS NON-IONIC SURFACTANT [Box with diagonal lines]
- RUSSIAN OLIVE (USE AQUATIC GLYPHOSATE) *
- TREE REMOVAL [Empty box]

LIMITS OF DISTURBANCE ——— V07 ———



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I-25/SANTA FE INTERCHANGE NOXIOUS WEED AND GROUNDWATER WELL PLAN		
Designer:	KAB	Structure Numbers
Detailer:	RSA	
Sheet Subset:	MISC	Subset Sheets: EP-9 of 10

Project No./Code
BR 0252-407
17783
Sheet Number 99

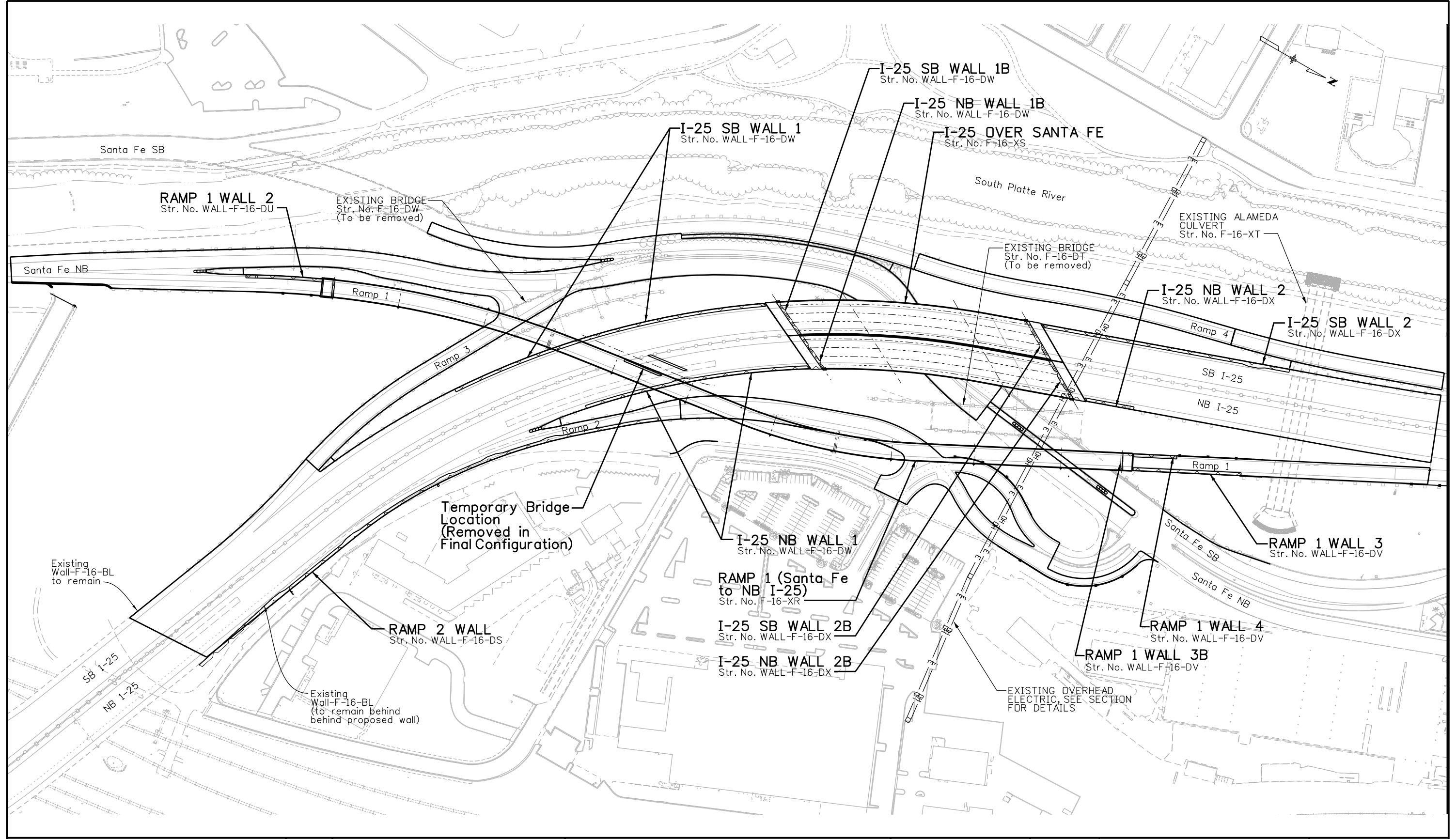
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Revision Dates		Quantities	
DATE	INITIAL	QUANTITY	BY

Design		Detail	
DESIGNED BY	DATE	INITIAL	DATE



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**I-25/SANTA FE INTERCHANGE
 STRUCTURE LOCATION MAP
 FINAL CONFIGURATION**
 Designer: P. STEIN Structure Numbers: MULTIPLE
 Detailer: R. DILLON
 Sheet Subset: MAP Subset Sheets: LM-1 of 1

Project No./Code
 BR 0252-407
 17783
 Sheet Number **101**

GENERAL NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) 2005 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, APPLICABLE TO THE PROJECT AS AMENDED BY THE STANDARD AND PROJECT SPECIAL PROVISIONS.

SHORING IS REQUIRED FOR CRANE PLACEMENT ADJACENT TO EXISTING ROADWAYS.

STRUCTURE EXCAVATION AND BACKFILL SHALL BE AS SHOWN ON THE PLANS. SEE WALL PLANS FOR EXCAVATION AND BACKFILL AT ABUTMENTS.

THE FINAL FINISH FOR THE SURFACES OF THE BARRIER THAT ARE NOT FORMLINED SHALL BE CLASS 2. OTHER EXPOSED SURFACES TO BE STAINED SHALL RECEIVE A CLASS 4 FINISH. TOP OF BRIDGE DECK SHALL BE FINISHED IN ACCORDANCE WITH THE SPECIFICATIONS FOR BRIDGE DECKS. ALL OTHER SURFACES SHALL RECEIVE A CLASS 1 FINISH. SEE MISCELLANEOUS DETAILS SHEET.

A COLORED STRUCTURAL CONCRETE STAIN FINISH WILL BE REQUIRED, AS SHOWN ON THE PLANS, ON EXPOSED CONCRETE SURFACES. THE COLOR APPLIED TO THE GIRDERS AND BRIDGE RAIL RECESSES SHALL BE DARK GRAY, EQUIVALENT TO FEDERAL STANDARD 595B COLOR NO. 26251. THE COLOR APPLIED TO THE REST OF THE BRIDGE RAIL, DECK EDGES, SUBSTRUCTURE AND COPINGS SHALL BE LIGHT GRAY, COLOR NO. 26440. AN ANTI-GRAFFITI COATING SHALL BE APPLIED TO ALL LOCATIONS RECEIVING CONCRETE STAIN, APPLIED AFTER STAINING.

ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. ALL REINFORCING STEEL CONTAINED ENTIRELY WITHIN DRILLED CAISSONS AND PRECAST GIRDERS SHALL BE NON-EPOXY COATED. ANY STEEL EXTENDING OUT OF CAISSONS OR GIRDERS AND ALL OTHER REINFORCING STEEL SHALL BE EPOXY COATED

UNLESS NOTED OTHERWISE IN THE PLANS, THE FOLLOWING TABLE GIVES THE MINIMUM LAP SPLICE LENGTHS FOR REINFORCING BARS.

NON-EPOXY COATED	BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
	CLASS BZ	1'-4"	1'-9"	2'-2"	2'-7"	3'-3"	4'-3"	5'-4"	6'-9"	8'-4"
CLASS PS	1'-4"	1'-9"	2'-2"	2'-7"	3'-0"	-	-	-	-	-
EPOXY COATED	CLASS D	1'-11"	2'-7"	3'-3"	3'-10"	4'-7"	6'-0"	7'-7"	9'-7"	11'-9"
	CLASS S50	1'-11"	2'-7"	3'-3"	3'-10"	4'-6"	-	-	-	-

THE ABOVE SPLICE LENGTHS SHALL BE INCREASED BY 20 PERCENT FOR 3 BAR BUNDLES AND 33 PERCENT FOR 4 BAR BUNDLES.

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCEMENT BARS, THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE FOR EPOXY COATED REINFORCING BARS.

THE STOCK LENGTH ASSUMED FOR ALL REINFORCING IS 60 FEET.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

PERMANENT STEEL DECK FORMS ARE ALLOWED EXCEPT IN THE CANTILEVER PORTIONS OF THE DECK SLAB AND WHERE LUMINAIRES ARE MOUNTED. FORM FLUTES SHALL BE FILLED WITH STYROFOAM. SUPPORT ANGLES OR ANY OTHER STEEL ELEMENTS LEFT IN PLACE AND EXPOSED TO THE ATMOSPHERE SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 509.11 OF THE STANDARD SPECIFICATIONS.

PERMANENT CONCRETE DECK FORMS ARE NOT ALLOWED.

FOR STRUCTURE NUMBER INSTALLATION, SEE STANDARD S-614-12.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 3 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

AS-BUILT PLANS FOR EXISTING BRIDGES F-16-DT AND F-16-DW ARE AVAILABLE.

ALL THE PROVISIONS FOR BRIDGE DECK CONCRETE SHALL ALSO APPLY TO APPROACH SLAB CONCRETE.

LEVELING PADS SHALL BE CUT OR MOLDED FROM AASHTO ELASTOMER GRADE 3, 4, OR 5 AS DESCRIBED IN TABLES 705-1 AND 705-2 WITH A DUROMETER (SHORE "A") HARDNESS OF 60.

ALL CONCRETE IN CONTACT WITH SOIL SHALL MEET CLASS 2 SULFATE SEVERITY EXPOSURE REQUIREMENTS.

ALL ELECTRICAL CONDUIT IN BRIDGE SHALL BE GALVANIZED RIGID METAL CONDUIT. ALL CONDUIT RUNS SHALL INCLUDE A PULL STRING FOR FUTURE WIRING INSTALLATION.

SEE PROJECT GENERAL NOTES FOR ADDITIONAL INFORMATION ON STONE MATRIX ASPHALT (FIBERS)(ASPHALT) OVERLAY TO BE APPLIED TO THE BRIDGE. SMA WEARING COURSE SHALL COMPLY WITH ROADWAY SMOOTHNESS CATEGORY HRI II.

DESIGN DATA

AASHTO, LRFD BRIDGE DESIGN SPECIFICATIONS 4TH EDITION WITH INTERIMS THROUGH 2008, DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

SEISMIC DESIGN IS BASED THE AASHTO, LRFD BRIDGE DESIGN SPECIFICATIONS 4TH EDITION WITH INTERIMS THROUGH 2008, DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

SITE CLASS	D	
PEAK GROUND ACCELERATION COEFFICIENT (PGA)		=0.06
ACCELERATION COEFFICIENT FOR SHORT PERIOD (S _s)		=0.125
ACCELERATION COEFFICIENT FOR LONG PERIOD (S ₁)		=0.033
SITE FACTOR AT ZERO-PERIOD (F _{pg0})		=1.60
SITE FACTOR FOR SHORT PERIOD (F _a)		=1.60
SITE FACTOR FOR LONG PERIOD (F _v)		=2.40
SEISMIC PERFORMANCE ZONE	1	

DESIGN IS BASED ON A PRESTRESSING FORCE OF 75% f_{pu} MAX.

LIVE LOAD: HL-93 (DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD)
DEAD LOAD: ASSUMES 36 LBS. PER SQ. FT. FOR BRIDGE DECK OVERLAY, 5 LBS. PER SQ. FT. FOR S.I.P. DECK FORMS

REINFORCED CONCRETE		
ELEMENT	CLASS	f' _c (PSI)
DECK, PIERS BARRIERS, ABUTMENTS ABUTMENT DIAPHRAGMS APPROACH SLABS	D	4,500
PIER DIAPHRAGMS CLOSURES	S50	7,250
CAISSONS	BZ	4,000

PRESTRESSED CONCRETE (U-GIRDERS):
CLASS PS CONCRETE f'_c = 9000 PSI
f'_{ci} = 6500 PSI
f_s = 270,000 PSI

SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL CONCRETE MIX REQUIREMENTS

CONCRETE COVER (UNLESS SHOWN OTHERWISE IN THE PLANS):

SUPERSTRUCTURE:	
TOP OF DECK	2"
BOTTOM OF DECK	1"
ALL OTHER SURFACES	1 1/2"
SUBSTRUCTURE:	
SURFACES CAST AGAINST FORMS	2"
SURFACES CAST AGAINST EARTH	3"

METHOD: LOAD AND RESISTANCE FACTOR DESIGN

CONSTRUCTION CLEARANCES

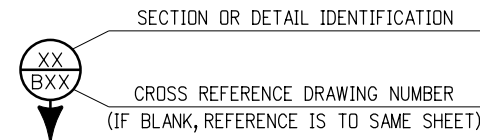
SANTA FE RD.: 14'-6" VERTICAL

XCEL OVERHEAD TRANSMISSION LINES: 29'-0" RADIUS WHEN LIVE - SEE PROJECT SPECIAL PROVISIONS

LEGEND

B.F. = BACK FACE	NB = NORTH BOUND
B.F.B.W. = BACK FACE OF BACKWALL	N.T.S. = NOT TO SCALE
D.S. = DOWNSTATION	SB = SOUTH BOUND
E.F. = EACH FACE	P.G.L. = PROFILE GRADE LINE
EL = ELEVATION	T.C. = TANGENT TO CURVE
F.F. = FRONT FACE	W.S. = WEARING SURFACE
F.F.B.W. = FRONT FACE OF BACKWALL	U.N.O. = UNLESS NOTED OTHERWISE
H.C.L. = HORIZONTAL CONTROL LINE	U.S. = UPSTATION
M.V.C. = MINIMUM VERTICAL CLEARANCE	

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INDEX OF DRAWINGS

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B14	ABUTMENT 4 DIMENSIONS & REINFORCING I
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B57	BRIDGE DECK ELEVATIONS X
B57a	BRIDGE DECK ELEVATIONS XI
B57b	BRIDGE DECK ELEVATIONS XII

BRIDGE DESCRIPTION

I-25 - 3 Span (152'-9 3/4", 240'-2 1/4", 153'-10"), Bridge,
Precast Concrete Tub Girders, Cast-in-Place Deck.
I-25 over Santa Fe.
71'-0" Rail-to-Rail SB and NB, Skew Varies 32° 09' 02"
to 40° 24' 03"
Bridge Rail Type 7 with Chain Link Fence.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	N/A	N/A
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
RKM	12/10	MSK	12/10	N/A	N/A

Print Date: 1/7/2011	Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE GENERAL INFORMATION	Project No./Code
File Name: 16311FBE_PH2_01_Gen_Information.dgn	Date: 12/3/2010 Comments: Rev. 1 (reissued) Init.: MK	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	Designer: M. Keller Detailer: S. Fall Sheet Subset: Bridge	BR 0252-407
Horiz. Scale: Vert. Scale: As Noted	Date: 1/3/2011 Comments: Rev. 2 (reissued) Init.: MK		Revised:		17783
Unit Information Unit Leader Initials	Date: 1/10/2011 Comments: Rev. 3 (reissued) Init.: MK		Void:		Sheet Number 102 C
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222		RLB			

PRELIMINARY - NOT FOR CONSTRUCTION

SUMMARY OF QUANTITIES

I-25 OVER SANTA FE BRIDGE

ITEM NO.	DESCRIPTION	UNIT	SUPER-STRUCTURE	ABUT. 1	PIER 2	PIER 3	ABUT. 4	APPROACH SLABS	TOTAL
202-00400	REMOVAL OF BRIDGE	EACH	-	-	-	-	-	-	2
206-01785	SHORING (AREA 5)	LS	1	-	-	-	-	-	1
403-09221	STONE MATRIX ASPHALT (FIBERS) (ASPHALT)	TON	1397	-	-	-	-	129	1526
503-00042	DRILLED CAISSON (42 INCH)	LF	-	448	-	-	446	-	894
503-00048	DRILLED CAISSON (48 INCH)	LF	-	-	348	356	-	-	704
① 509-08100	PROVIDE TEMPORARY SUPPORT	LS	1	-	-	-	-	-	1
515-00120	WATERPROOFING (MEMBRANE)	SY	8626	-	-	-	-	793	9419
518-01004	BRIDGE EXPANSION DEVICE (0-4 INCH)	LF	-	-	-	-	-	353	353
601-03040	CONCRETE CLASS D (BRIDGE)	CY	2290	479	97	95	518	360	3839
601-05050	CONCRETE CLASS S50	CY	178	-	-	-	-	-	178
601-40302	STRUCTURAL CONCRETE COATING (ANTI-GRAFFITI)	SF	45045	2438	2301	2251	2627	1888	56549
601-40401	STRUCTURAL CONCRETE STAIN	SY	5005	271	256	250	292	210	6284
602-00020	REINFORCING STEEL (EPOXY COATED)	LB	959393	103575	26747	26590	114865	165115	1396284
606-10700	BRIDGE RAIL TYPE 7	LF	1640	-	-	-	-	172	1812
606-10705	BRIDGE RAIL TYPE 7 (SPECIAL)	LF	547	-	-	-	-	57	604
607-53137	FENCE CHAIN LINK (SPECIAL) (36 INCH)	LF	1055	-	-	-	-	-	1055
613-00100	1 INCH ELECTRICAL CONDUIT	LF	694	-	45	-	-	-	739
613-00200	2 INCH ELECTRICAL CONDUIT	LF	2187	-	-	-	-	229	2416
618-00002	PRESTRESSING STEEL STRAND	MKFT	20777	-	-	-	-	-	20777
618-10200	PRECAST CONCRETE U GIRDER (PRECAST AND POST-TENSIONED)	LF	4244	-	-	-	-	-	4244

① Provide Temporary Support is the Item for Support of Girder Segments Prior to Continuity Post-Tensioning, Identified as Falsework in the Plans. It Includes All Labor and Materials to Design, Certify, Construct, and Deconstruct Falsework Towers and Strongback Beams, Including Temporary Foundations and Connections to the Superstructure. Temporary Support Shall Meet All the Requirements of Section 601 of the Specifications.


NOTES:

- Superstructure Concrete and Reinforcing Includes the Quantities for the Deck, Girder Build-up and Diaphragms.
- For Information Only, the Total Weight of Prestressing Steel Strand is 350,000 LB.
- Conduit Quantities Account for Conduit Above the Pull Box at the Base of Column. Conduit in the Ground from Power Source is not Included.
- See Special Provision Revision of Section 250, Environmental Health and Safety Management for Material Handling of Excavated Material.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
Designed By	Checked By	INITIAL	DATE	INITIAL	DATE
MSK	RKM	SJF	12/10	MSK	12/10
Checked By	Checked By	MSK	12/10	KAM	12/10

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Print Date: 1/7/2011
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 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
 **FIGG**
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
12/3/2010	Rev. 1 (reissued)	MK
1/3/2011	Rev. 2 (reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

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As Constructed
No Revisions:
Revised:
Void:

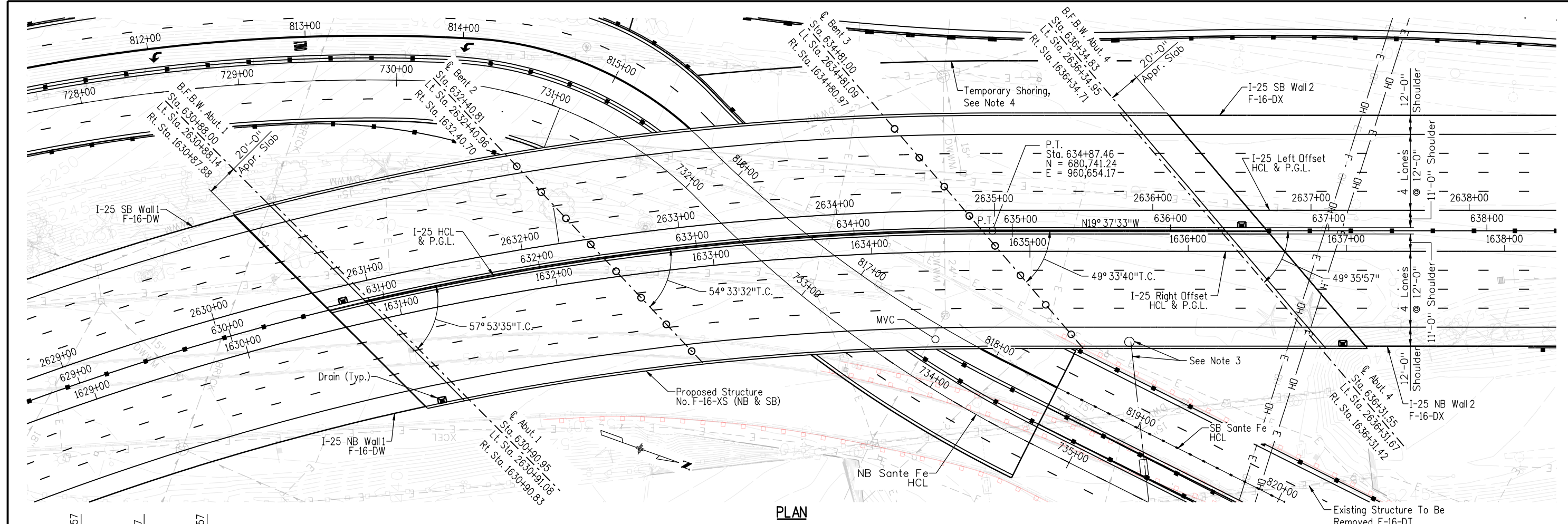
I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
SUMMARY OF BRIDGE QUANTITIES

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B2 of 57

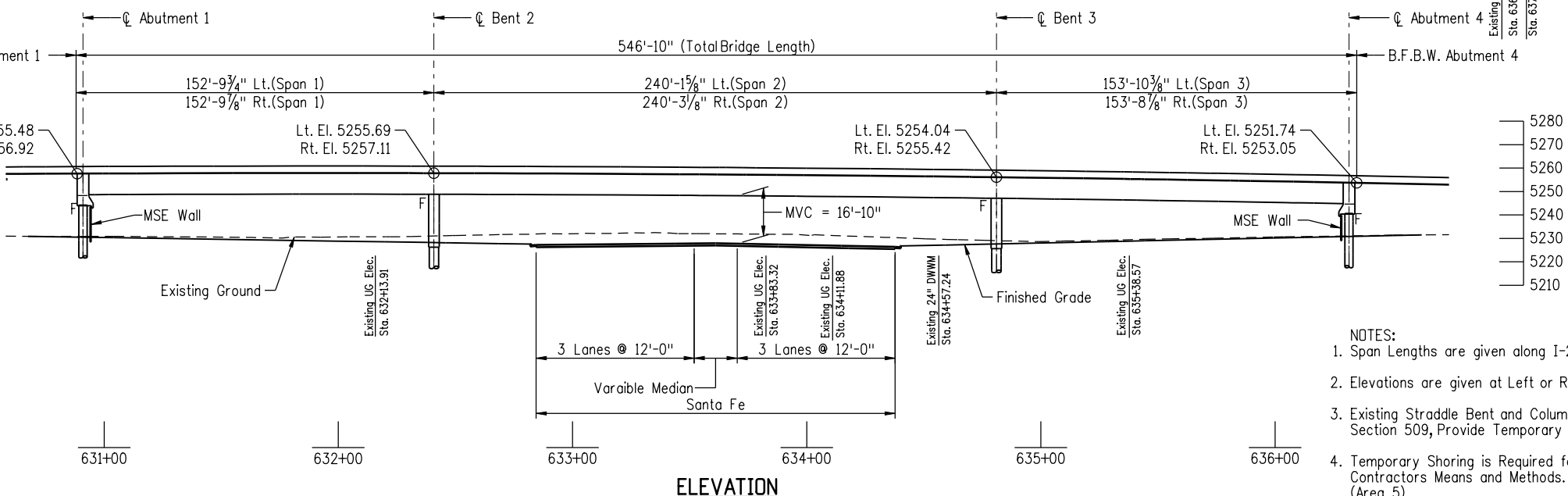
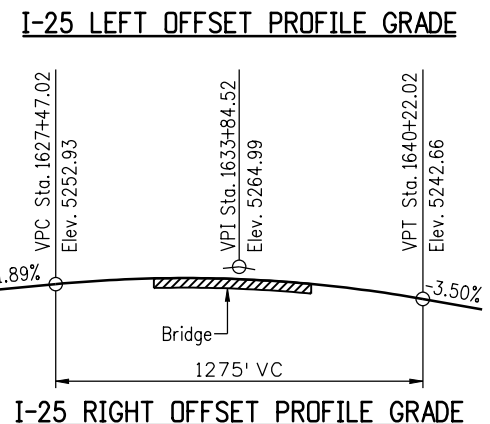
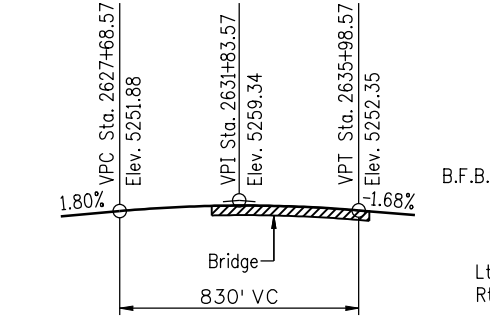
Project No./Code
BR 0252-407
17783
Sheet Number 103 C

PRELIMINARY - NOT FOR CONSTRUCTION

PRELIMINARY - NOT FOR CONSTRUCTION



PLAN



ELEVATION

HORIZONTAL CURVE DATA

Left Offset	Right Offset
P.C. = 2619+60.15	P.C. = 1619+60.15
P.T. = 2634+98.65	P.T. = 1634+76.28
R = 1788.00	R = 1762.00
$\Delta = 49^\circ 18' 2''$	$\Delta = 49^\circ 18' 2''$

- NOTES:
- Span Lengths are given along I-25 Left or Right Offset Horizontal Control Line.
 - Elevations are given at Left or Right Offset I-25 P.G.L.
 - Existing Straddle Bent and Column, See Project Special Provisions Revision of Section 509, Provide Temporary Support.
 - Temporary Shoring is Required for Girder Erection. Location as Required for Contractors Means and Methods. Temporary Shoring is Paid Under Shoring (Area 5).

Revision Dates		Preliminary Stage Only	
MM/YY	MM/YY		

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	MSK	12/10	NVA	NVA
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_03_Gen_Layout_PG.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

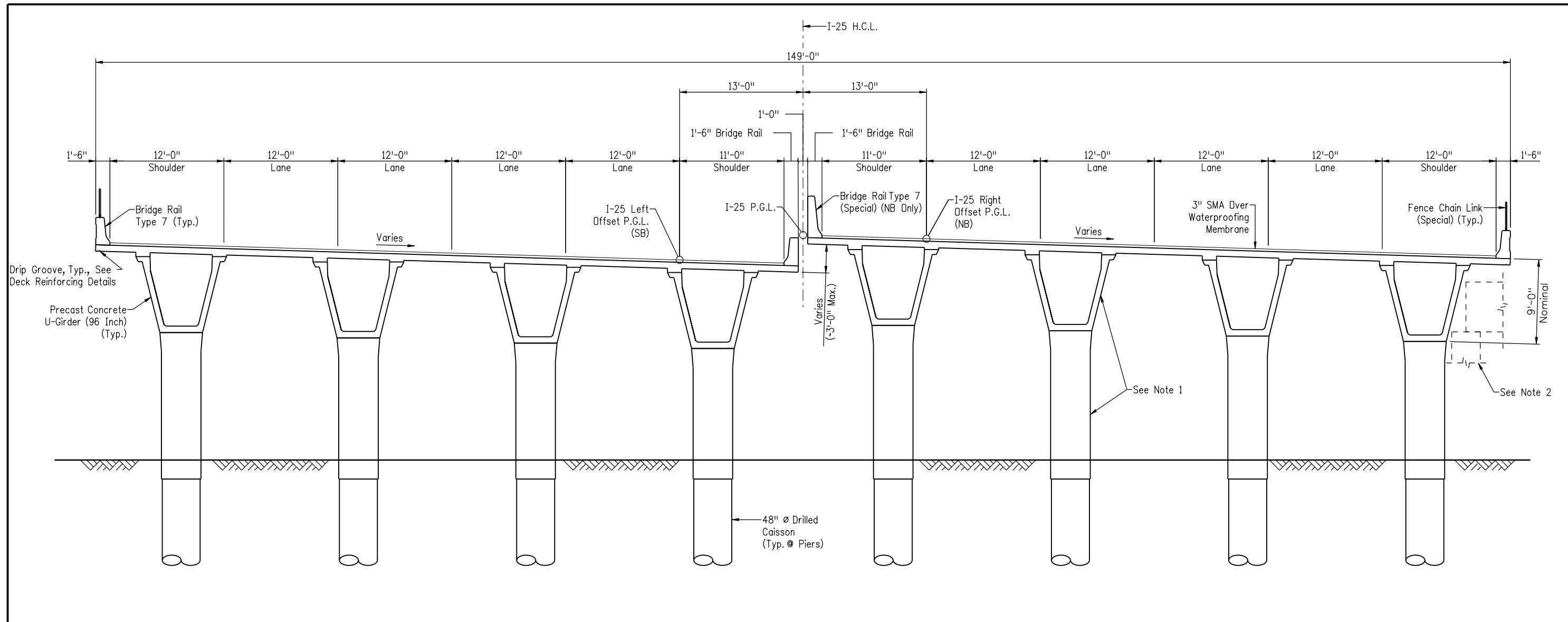
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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
GENERAL LAYOUT
 Designer: K. Montgomery
 Detailer: S.Fall
 Sheet Subset: Bridge
 Structure Numbers: F-16-XS
 Subset Sheets: B3 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 104 C

PRELIMINARY - NOT FOR CONSTRUCTION



TYPICAL I-25 SECTION
(Looking Ahead Station)

- NOTES:
- For Limits of Concrete Stain and Anti-Graffiti Coating, See Miscellaneous Details Sheet.
 - Existing Straddle Bent and Column, See Project Special Provisions Revision of Section 509, Provide Temporary Support.

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1/7/2011

Revision Dates		Quantities	
MM/YY		INITIAL	DATE

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	N/A	N/A
RKM	12/10	MSK	12/10	N/A	N/A

Print Date: 1/7/2011	File Name: 16311FBE_PH2_04_Typ_Cross_Sec.dgn
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222	

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev. 2 (reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

Colorado Department of Transportation

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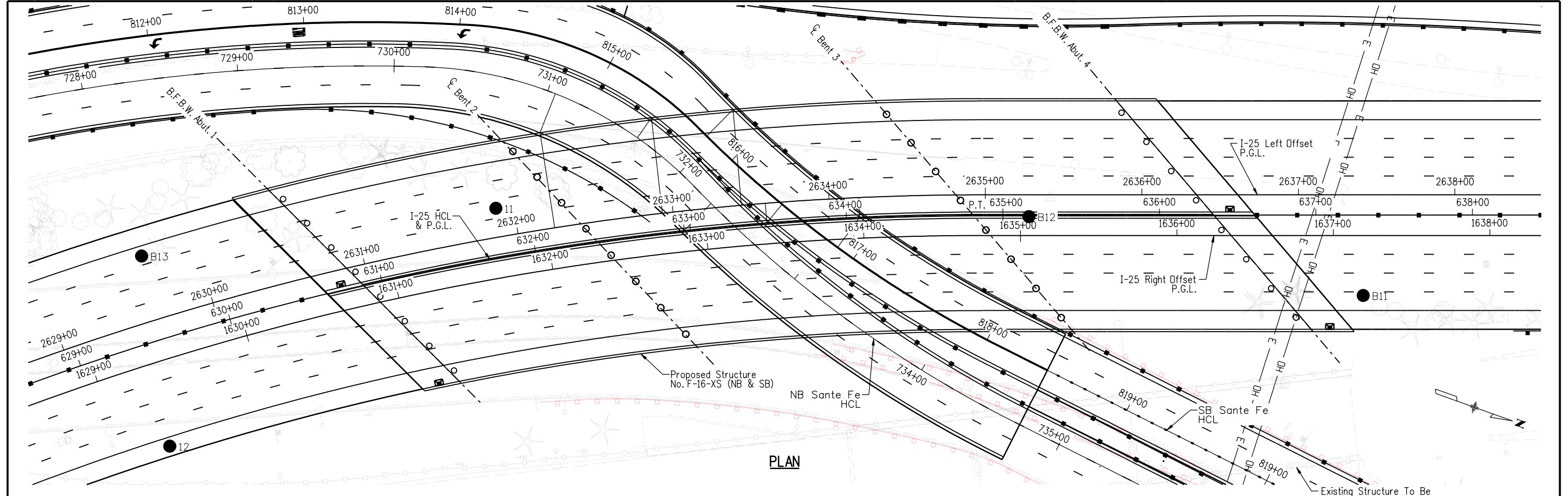
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE			
I-25 OVER SANTA FE			
TYPICAL SECTIONS			
Designer: K. Montgomery	Structure Numbers	F-16-XS	
Detailer: S. Fall	Subset Sheets:	B4 of 57	

Project No./Code
BR 0252-407
17783
Sheet Number 105 C

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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	12/10	Detailed By	HS	Quantity By	N/A
Checked By		Checked By	HHC	Checked By	N/A



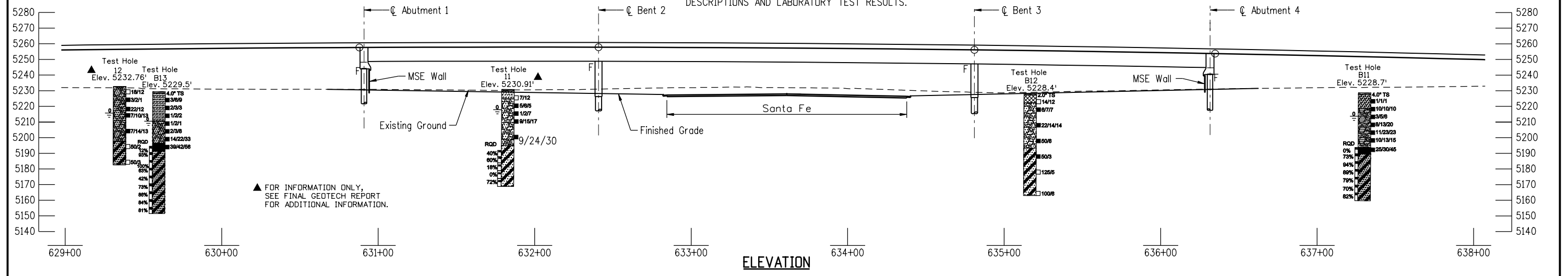
PLAN

LEGEND:

- Topsoil
- Sand and Silt
- Sandstone and Siltstone/Claystone Bedrock
- Drive sample, 2-inch I.D. California liner sample
- Drive sample, 1-3/8 inch I.D. standard sample
- Sand and Clay
- Sand and Gravel
- Siltstone/Claystone Bedrock
- Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage.

23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.
 20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.
 0 Depth to water level and number of days after drilling that measurement was taken.

SEE BORING LOGS INFORMATION SHEETS FOR DETAILED DESCRIPTIONS AND LABORATORY TEST RESULTS.



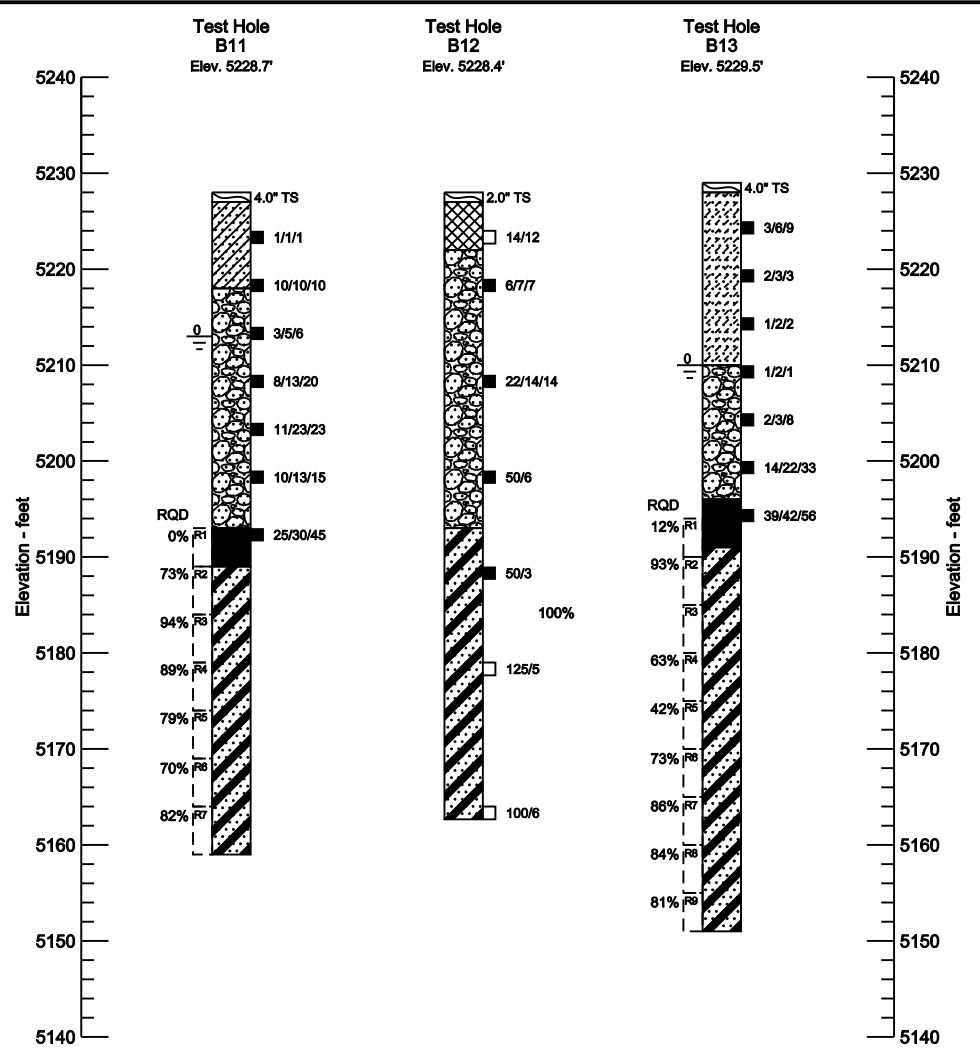
ELEVATION

Print Date: 1/7/2011		Sheet Revisions		Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE ENGINEERING GEOLOGY		Project No./Code			
File Name: 16311GE_PH2_05_ENG GEO SHEET.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		BR 0252-407 Designer: H.H. Chiang Detailer: H. Siders Sheet Subset: Bridge		Structure Numbers: F-16-XS Subset Sheets: B5 of 57 Sheet Number 106 C		
Horiz. Scale: 1:1 Vert. Scale: As Noted			12/3/2010	Rev. 1 (Reissued)									MK
Unit Information Unit Leader Initials			1/3/2011	Rev. 2 (reissued)									MK
 41 Inverness Drive East Englewood, Colorado 80112-5412 303-289-1989 www.groundeng.com			1/10/2011	Rev. 3 (reissued)	MK	Revised:		Structure Numbers: F-16-XS		17783			
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Revision Dates (Preliminary Stage Only)	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



- LEGEND:**
- Topsoil (TS).
 - Fill: Clayey, silty, gravelly sand to sand and clay/silt, occasional deleterious material and debris, non-plastic to highly plastic, fine to coarse grained with gravels, very loose to very dense, slightly moist to moist, tan, light brown, dark brown.
 - Sand and Clay: Interlayered, very clayey or silty sand to very sandy clay, fine to coarse grained, occasional gravels, non-plastic to medium plastic, soft to very stiff or very loose to dense, slightly moist to wet, light brown, dark brown, orange brown, gray.
 - Sand and Silt: Interlayered, fine to coarse grained, non-plastic to highly plastic, very loose to medium dense or very soft to very stiff, moist to wet, brown, dark brown, black, possible organic content.
 - Sand and Gravel: Occasionally silty, fine to coarse grained with gravels and cobbles, non-plastic to medium plastic, very loose to very dense, slightly moist to wet, tan, pink, brown, orange brown, black, occasionally iron stained.
 - Sandstone and Siltstone/Claystone Bedrock: Interbedded, fine to coarse grained, non-plastic to highly plastic, medium hard to very hard, slightly moist to wet, brown, gray, blue gray, blue brown, green gray, blue gray, occasionally iron stained.
 - Siltstone/Claystone Bedrock: Sandy and fine grained, hard to very hard, slightly moist to moist, low to highly plastic, gray, brown, dark brown.
- Drive sample symbols:**
- Drive sample, 2-inch I.D. California liner sample
 - Drive sample, 1-3/8 inch I.D. standard sample
 - Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage.
 - 23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.
 - 20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.
 - 0 Depth to water level and number of days after drilling that measurement was taken.

- NOTES:**
- Test holes were drilled from 01/26/09 to 02/26/09 and from 06/04/09 to 06/19/09 with 7-inch diameter hollow stem or 4-inch diameter continuous flight power augers.
 - Locations of the test holes were surveyed by the Owner's representative after completion of the test hole drilling.
 - Elevations of the test holes were surveyed by the Owner's representative and the logs of the test holes are drawn to elevation.
 - The test hole locations and elevations should be considered accurate only to the degree implied by the method used.
 - The lines between materials shown on the test hole logs represent the approximate boundaries between material types and the transitions may be gradual.
 - Groundwater level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level may occur with time.
 - Thicknesses of topsoil, HBAP and road base were generally drawn to 1 foot due to the test hole log scale. Actual thickness can vary.
 - The material descriptions on this legend are for general classification purposes only. See the full text of this report for descriptions of the site materials and related recommendations.
 - Location of test holes are shown in the "Subsurface Exploration Program Geotechnical and Pavement Recommendations for Phase 1 (Stage 1.2-1.4) & Phase 2, Task Order No.17, I-15 Santa Fe Alameda Interchange Reconstruction Denver, Colorado Dated January 19, 2010.

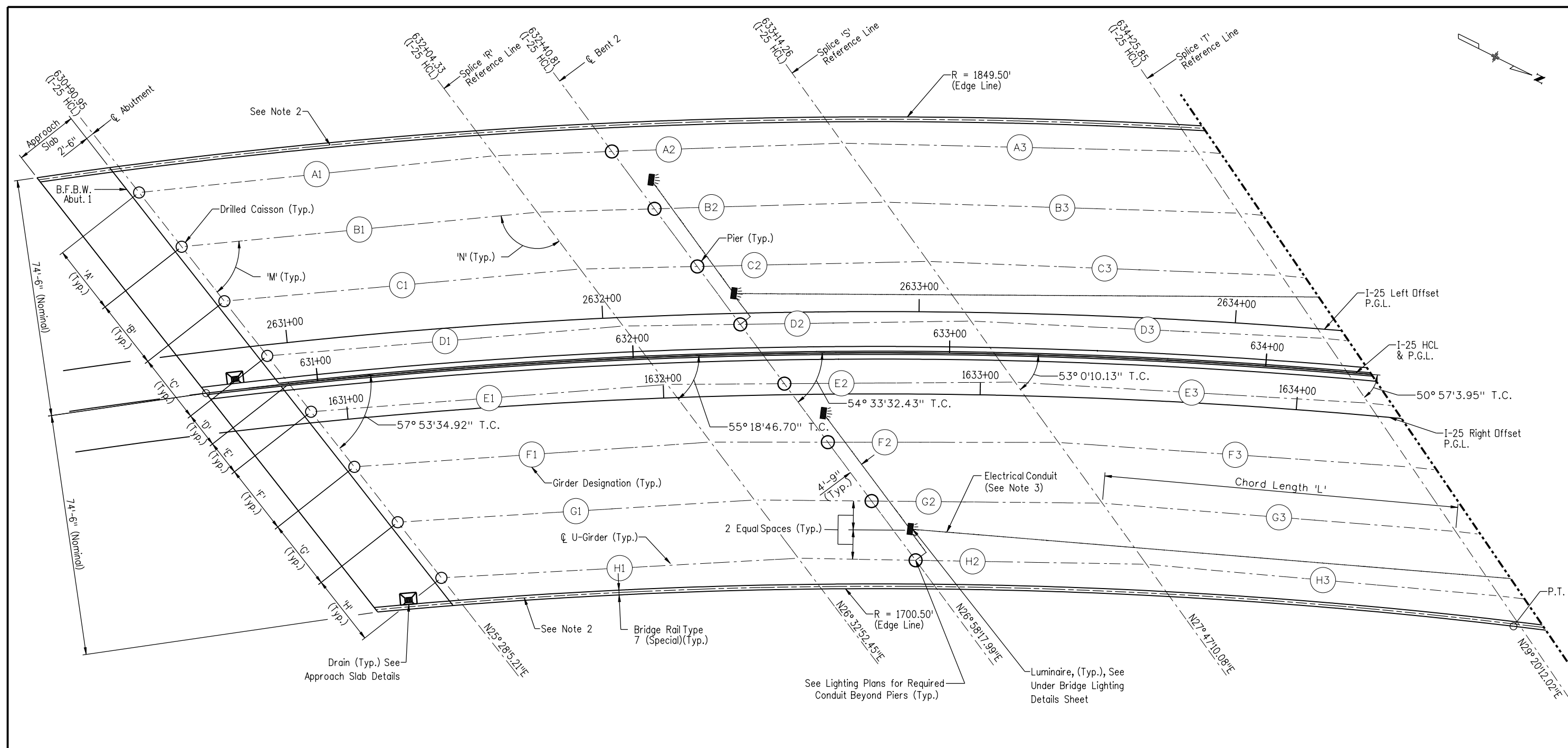
Sample Number	Depth (feet)	Classification Corps of Engrs. or Visual (Soil or Bedrock Types)	AASHTO	Grading Analysis (AASHTO)			Atterberg Limits			Water Content W %	Unconfined Compressive Strength (psf)
				Percent			L.L. Lw	P.L. Pw	P.I. W		
				Gravel	Sand	Silt and Clay					
B11	9	Sand and Silt	A-4(0)	0	51	49	20	16	4	18.6	-
B11	24	Gravelly Sand	A-1-b(0)	19	73	8	19	14	5	9.1	-
B11	42-43	Siltstone	A-7-5(14)	-	-	93	43	31	12	17.9	96,324
B11	58-59	Sandy Siltstone	A-5(9)	-	-	75	43	33	10	18.9	165,291
B11	66.5-67.5	Siltstone	A-7-5(16)	-	-	91	50	37	13	17.6	26,225
B12	4	Fill: Very Sandy Clay	A-6(6)	-	-	57	37	23	14	18.8	-
B12	9	Sand and Gravel	A-1-a(0)	47	48	5	NV	-	NP	3.3	-
B12	29	Gravelly Sand	A-1-b(0)	26	70	4	NV	-	NP	4.8	-
B12	49	Silty Sandstone	A-2-4(0)	-	-	28	31	27	4	23.4	18,710
B12	64	Silty Sandstone	A-2-7(0)	-	-	24	42	31	11	23.8	21,190
B13	9	Sand and Clay	A-7-6(10)	-	-	49	46	16	30	15.0	-
B13	29	Gravelly Sand	A-1-b(0)	25	65	10	NV	-	NP	9.0	-
B13	47-48	Sandstone/Siltstone	A-4(2)	-	-	55	35	30	5	16.4	240,010
B13	63-64	Sandy Siltstone	A-7-5(16)	-	-	81	48	31	17	20.8	26,938
B13	74.5-75.5	Siltstone	A-7-5(24)	-	-	96	55	36	19	24.7	47,179

NV = Non-viscous NP = Non-plastic



Print Date: 1/7/2011	Sheet Revisions		Colorado Department of Transportation		As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311GE_PH2_05a_BORINGLOG_INFOSHEET08.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	BORING LOG INFORMATION		BR 0252-407
Horiz. Scale: 1:40	12/3/2010	Rev. 1 (Issued)	HC		Revised:	Designer: H.H.Chiang	Structure Numbers: F-16-XU	17783
Unit Information	1/3/2011	Rev. 2 (Reissued)	MK		Void:	Detailer: H.Siders	Sheet Subset: Boring Logs	Subset Sheets: B5a of 57
	1/10/2011	Rev. 3 (reissued)	MK	RLB	Sheet Number 106a C			

PRELIMINARY - NOT FOR CONSTRUCTION



Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
12/10	MSK	12/10	MSK	12/10	NVA
12/10	RKM	12/10	MSK	12/10	NVA

Bent	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
Abutment 1	21.780'	21.862'	21.947'	11.203'	11.227'	22.132'	22.229'	22.331'
Splice 'R'	22.368'	22.469'	22.575'	12.456'	10.647'	22.793'	22.927'	23.055'
Splice 'S'	22.969'	23.092'	23.221'	12.819'	10.966'	23.490'	23.650'	23.808'
Splice 'T'	23.563'	23.790'	24.040'	13.016'	11.725'	24.473'	24.566'	24.663'

Girder	Downstation x 'M'	Upstation x 'N'	Chord 'L'	Girder	Downstation x 'M'	Upstation x 'N'	Chord 'L'	Girder	Downstation x 'M'	Upstation x 'N'	Chord 'L'
(A1)	57.778	121.142	112.951	(A2)	55.015	123.747	110.058	(A3)	52.842	125.607	111.977
(B1)	57.414	121.507	112.908	(B2)	54.612	124.150	109.996	(B3)	52.406	126.043	111.826
(C1)	57.040	121.880	112.879	(C2)	54.199	124.563	109.950	(C3)	51.925	126.525	111.740
(D1)	56.656	122.264	112.864	(D2)	53.775	124.986	109.920	(D3)	51.392	127.058	111.732
(E1)	56.251	122.669	112.871	(E2)	53.333	125.429	109.908	(E3)	50.799	127.651	111.806
(F1)	55.853	123.068	112.882	(F2)	52.886	125.876	109.917	(F3)	50.198	128.252	111.915
(G1)	55.438	123.482	112.916	(G2)	52.427	126.335	109.946	(G3)	49.624	128.826	111.990
(H1)	55.013	123.907	112.970	(H2)	51.995	126.807	109.998	(H3)	49.073	129.377	112.035

- NOTES:
- For I-25 Horizontal Control Data, See General Layout Sheet.
 - Provide 2-2"Ø Galvanized Rigid Metal Conduits in Each Outside Bridge Rail. Connect to Conduits in Roadway Railing With Expansion Fitting to Allow a Total Movement of 6" at the Expansion Joints. Locate 6"x6"x4" Deep Pull Boxes On the Outside Face of the Railing Per the Requirements of NEC or at 300'-0" On Center (Max.).
 - Run One 1" Diameter Electrical Conduit into Piers at Girder Lines D and H at Bent 2. Run Through Pier and Pier Diaphragm into Deck to Supply Luminaires as Shown. See Pier Column Dimensions and Reinf., Pier Diaphragm Dimensions and Reinf. and Conduit and Lighting Details Sheets for More Information.

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_06_Constr_LayoutI.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Date:	Comments	Init.
12/3/2010	Rev. 1 (Reissued)	MK
1/3/2011	Rev. 2 (Reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

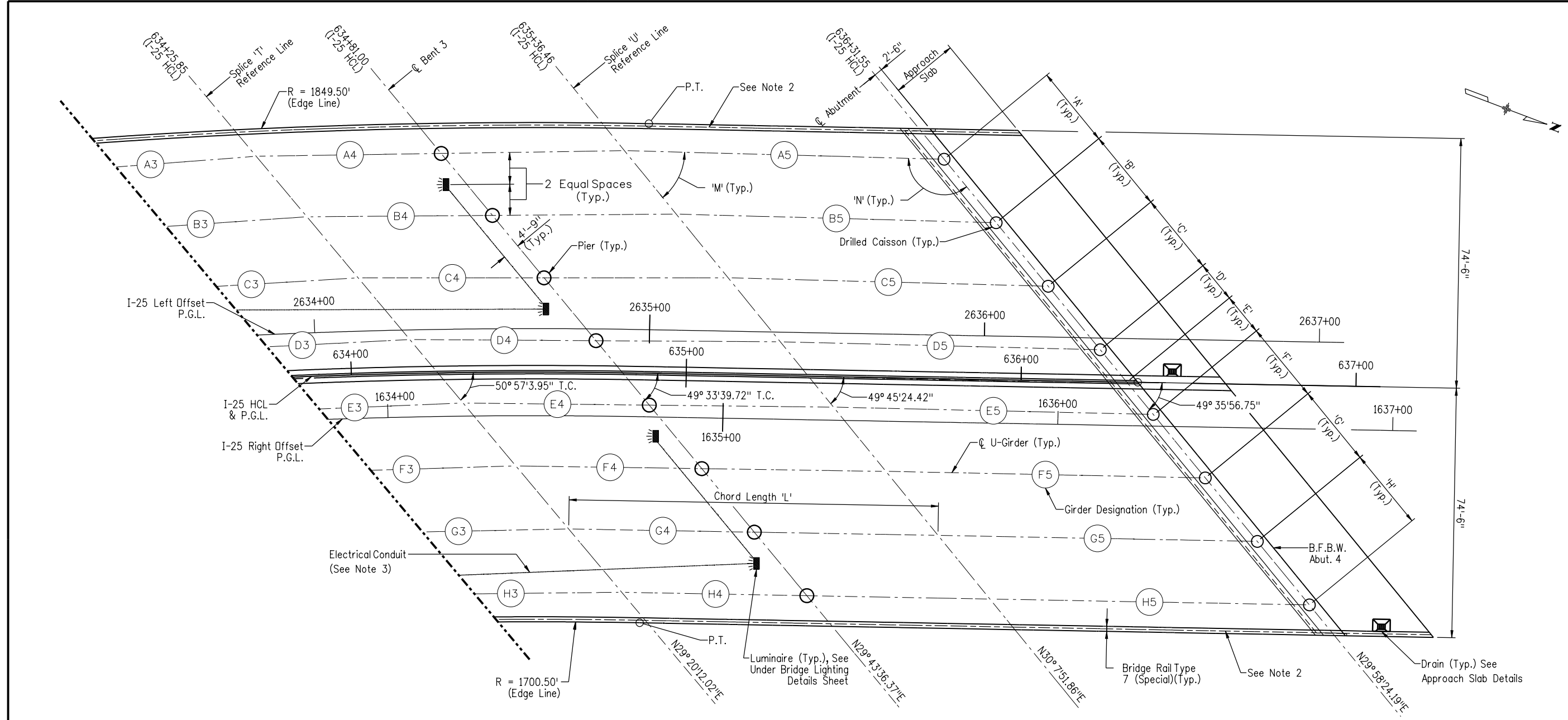
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
CONSTRUCTION LAYOUT I
 Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B6 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 107 C

PRELIMINARY - NOT FOR CONSTRUCTION



Girder	Downstation x 'M'	Upstation x 'N'	Chord 'L'	Girder	Downstation x 'M'	Upstation x 'N'	Chord 'L'
(A4)	50.895	128.311	109.956	(A5)	49.272	130.885	95.463
(B4)	50.433	128.772	110.245	(B5)	49.263	130.894	95.565
(C4)	50.023	129.182	110.460	(C5)	49.301	130.857	95.601
(D4)	49.675	129.530	110.579	(D5)	49.382	130.776	95.573
(E4)	49.388	129.818	110.594	(E5)	49.512	130.646	95.479
(F4)	49.175	130.031	110.495	(F5)	49.634	130.523	95.393
(G4)	49.033	130.172	110.280	(G5)	49.716	130.442	95.366
(H4)	48.967	130.239	109.940	(H5)	49.754	130.403	95.401

Bent	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
Splice 'T'	23.563'	23.790'	24.040'	13.016'	11.725'	24.473'	24.566'	24.663'
Splice 'U'	24.434'	24.536'	24.633'	13.265'	11.910'	24.724'	24.633'	24.538'
Abutment 4	24.512'	24.512'	24.512'	12.475'	12.475'	24.512'	24.512'	24.512'

- NOTES:
- For I-25 Horizontal Control Data, See General Layout Sheet.
 - Provide 2-2"Ø Galvanized Rigid Metal Conduits in Each Outside Bridge Rail. Connect to Conduits in Roadway Railing With Expansion Fitting to Allow a Total Movement of 6" at the Expansion Joints. Locate 6"x6"x4" Deep PullBoxes On the Outside Face of the Railing Per the Requirements of NEC or at 300'-0" On Center (Max.).
 - Run one 1" Diameter Electrical Conduit into Piers at Girder Lines D and H at Bent 2. Run Through Pier and Pier Diaphragm into Deck to Supply Luminaires as Shown. See Pier Column Dimensions and Reinf., Pier Diaphragm Dimensions and Reinf. and Conduit and Lighting Details Sheets for More Information.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_07_Constr_LayoutII.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Date:	Comments	Init.
12/3/2010	Rev. 1 (Reissued)	MK
1/3/2011	Rev. 2 (Reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

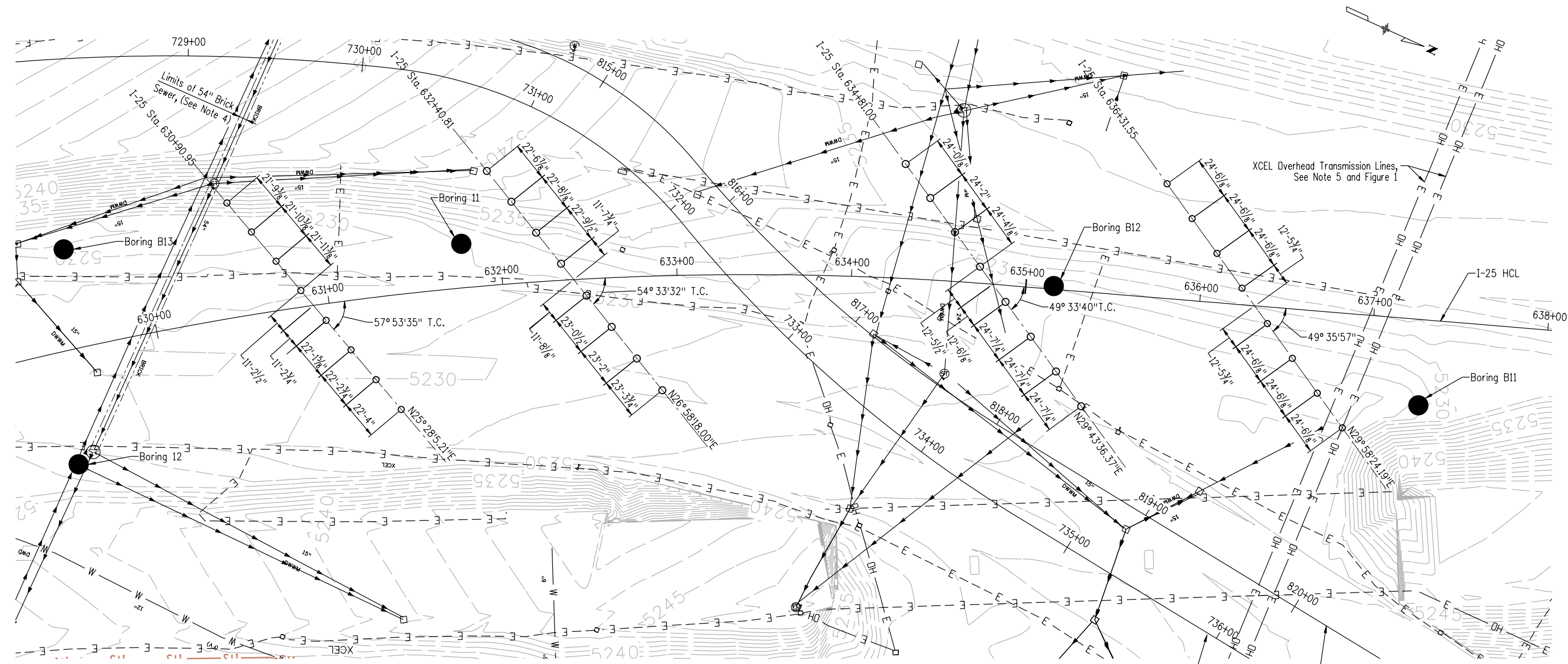
Region 6 **RLB**

No Revisions:
Revised:
Void:

**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 CONSTRUCTION LAYOUT II**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B7 of 57

BR 0252-407
17783
Sheet Number 108 C



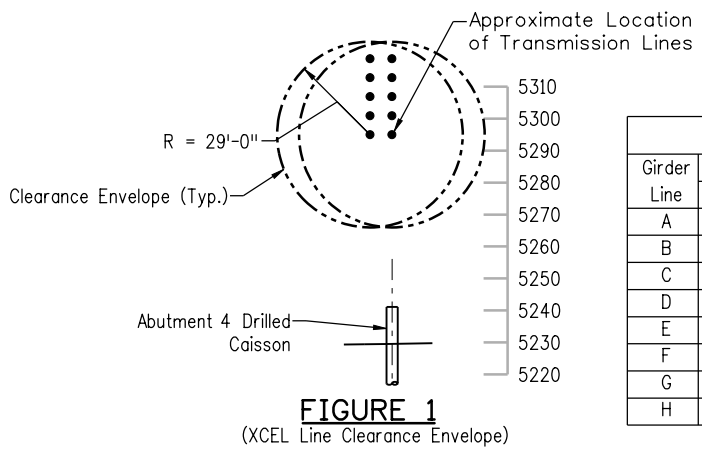
Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL

**FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS
BEFORE YOU DIG
CALL 811**
(or 1-800-922-1987)

UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
www.uncc.org

NOTE:
UTILITY LOCATIONS SHOWN ON THE PLANS ARE FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.10 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CALL UTILITY NOTIFICATION CENTER OF COLORADO 811 FOR LOCATION OF MEMBER UTILITIES AT LEAST TWO BUSINESS DAY PRIOR TO ANY EXCAVATION OR OTHER EARTH WORK (NOT INCLUDING THE ACTUAL DAY OF NOTIFICATION). NOTIFICATION OF BOTH MEMBER AND NON-MEMBER UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY.



Girder Line	Abutment 1		Bent 2		Bent 3		Abutment 4	
	Easting	Northing	Easting	Northing	Easting	Northing	Easting	Northing
A	960794.76	680316.34	960716.72	680444.40	960614.21	680661.37	960562.80	680802.45
B	960804.13	680336.01	960726.95	680464.51	960626.11	680682.21	960575.05	680823.68
C	960813.53	680355.74	960737.24	680484.72	960638.10	680703.20	960587.29	680844.91
D	960822.97	680375.56	960747.58	680505.04	960650.17	680724.34	960599.54	680866.15
E	960832.61	680395.81	960758.15	680525.82	960662.55	680746.02	960612.00	680887.76
F	960842.13	680415.79	960768.60	680546.35	960674.75	680767.38	960624.25	680908.99
G	960851.69	680435.86	960779.11	680567.00	960686.95	680788.75	960636.50	680930.23
H	960861.29	680456.02	960789.68	680587.78	960699.15	680810.11	960648.74	680951.46

- NOTES:
- For Abutment and Pier Details, See Abutment or Pier Dimension and Reinforcing Sheets.
 - For Drilled Caisson Details, See Drilled Caisson Details Sheet. See Utility Plans for Additional Information, and Utility Relocations and Removals.
 - Portion of 54" Brick Sewer Near Abutment 1 to be Relocated, See Drainage Plans.
 - If the Clearance Envelope of the XCEL Overhead Transmission Lines is to be Penetrated During Construction, Contractor Shall Coordinate Temporary Outage(s) With XCEL. See Utility Specification For Contact Information and Requirements For Working Near Power Lines

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_08_Foundation_Layout.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
1/3/2011	Rev. 2 (reissued)	MK	
1/10/2011	Rev. 3 (reissued)	MK	

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed	
No Revisions:	
Revised:	
Void:	

**I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
FOUNDATION LAYOUT**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B8 of 57

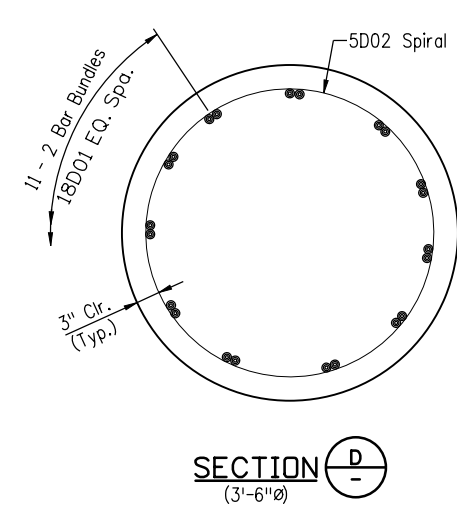
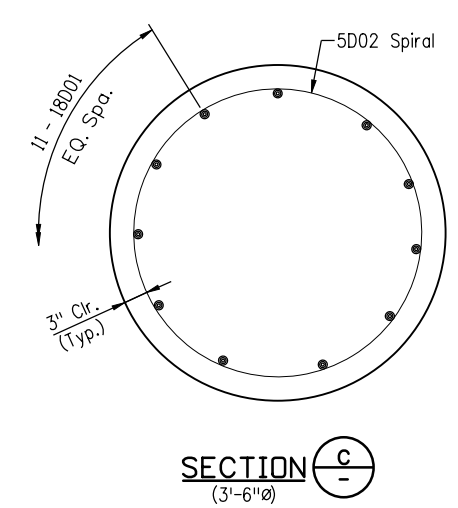
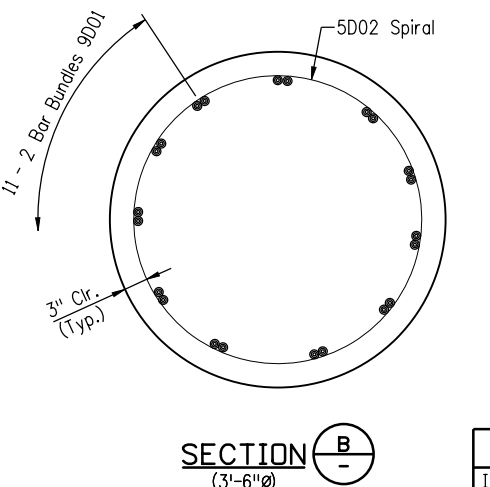
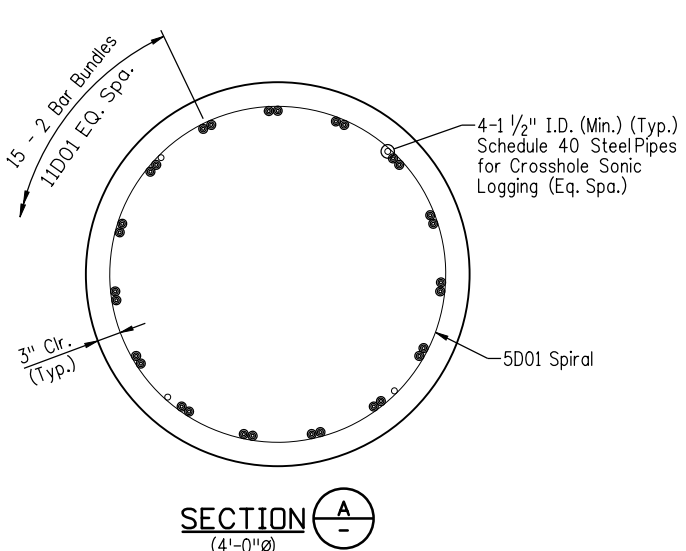
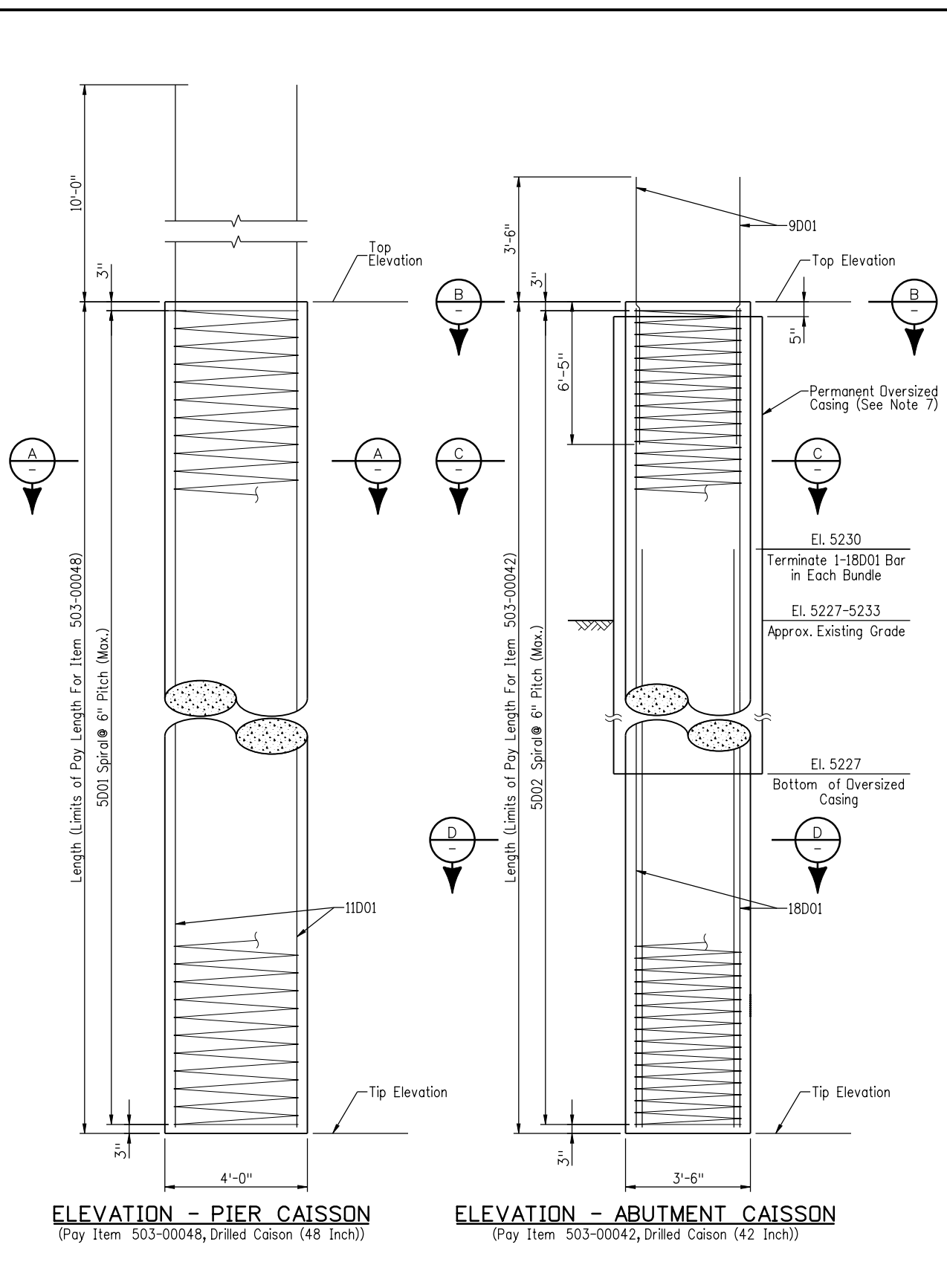
Project No./Code	
BR 0252-407	
17783	
Sheet Number 109 C	

PRELIMINARY - NOT FOR CONSTRUCTION

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1/7/2011
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Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



LEGEND

4	D	01	Bar Number
			Drilled Caisson
			Bar Size

ESTIMATED QUANTITIES

Item Number	Item Description	Unit	Quantity
503-00042	Drilled Caisson (42 Inch)	LF	893
503-00048	Drilled Caisson (48 Inch)	LF	704

Location	Diameter	**Load (kips)	Min. Rock Socket (ft)	Girder Line	Top Elevation	*Estimated Tip Elevation	*Estimated Length(ft)
Abutment 1	3'-6"	1250	10.5	A	5243.48	5185.5	57.98
				B	5242.91	5185.5	57.41
				C	5242.33	5185.5	56.83
				D	5241.76	5185.5	56.26
				E	5241.18	5185.5	55.68
				F	5240.61	5185.5	55.11
				G	5240.03	5185.5	54.53
				H	5239.46	5185.5	53.96
Pier 2	4'-0"	2650	13.5	A	5225.00	5181.5	43.5
				B	5225.00	5181.5	43.5
				C	5225.00	5181.5	43.5
				D	5225.00	5181.5	43.5
				E	5225.00	5181.5	43.5
				F	5225.00	5181.5	43.5
				G	5225.00	5181.5	43.5
				H	5225.00	5181.5	43.5
Pier 3	4'-0"	2650	13.5	A	5224.00	5179.5	44.5
				B	5224.00	5179.5	44.5
				C	5224.00	5179.5	44.5
				D	5224.00	5179.5	44.5
				E	5224.00	5179.5	44.5
				F	5224.00	5179.5	44.5
				G	5224.00	5179.5	44.5
				H	5224.00	5179.5	44.5
Abutment 4	3'-6"	1250	10.5	A	5239.37	5182.5	56.87
				B	5239.04	5182.5	56.54
				C	5238.70	5182.5	56.20
				D	5238.37	5182.5	55.87
				E	5238.02	5182.5	55.52
				F	5237.69	5182.5	55.19
				G	5237.35	5182.5	54.85
				H	5237.02	5182.5	54.52

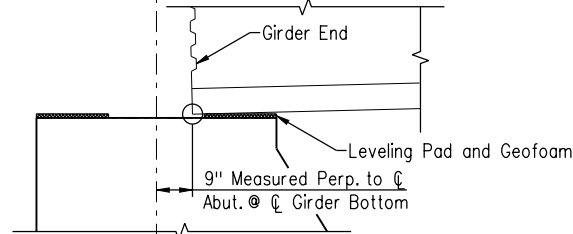
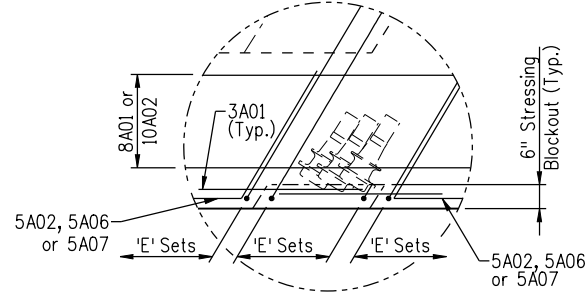
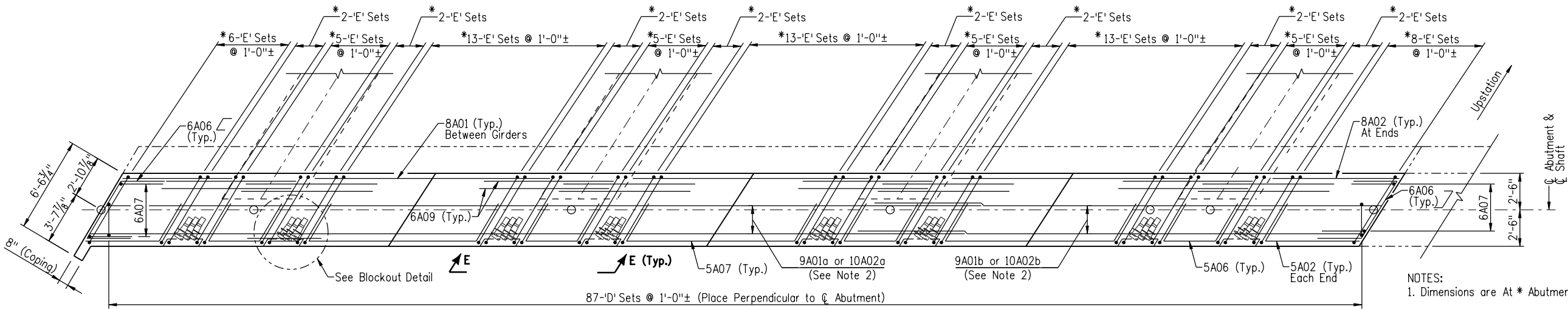
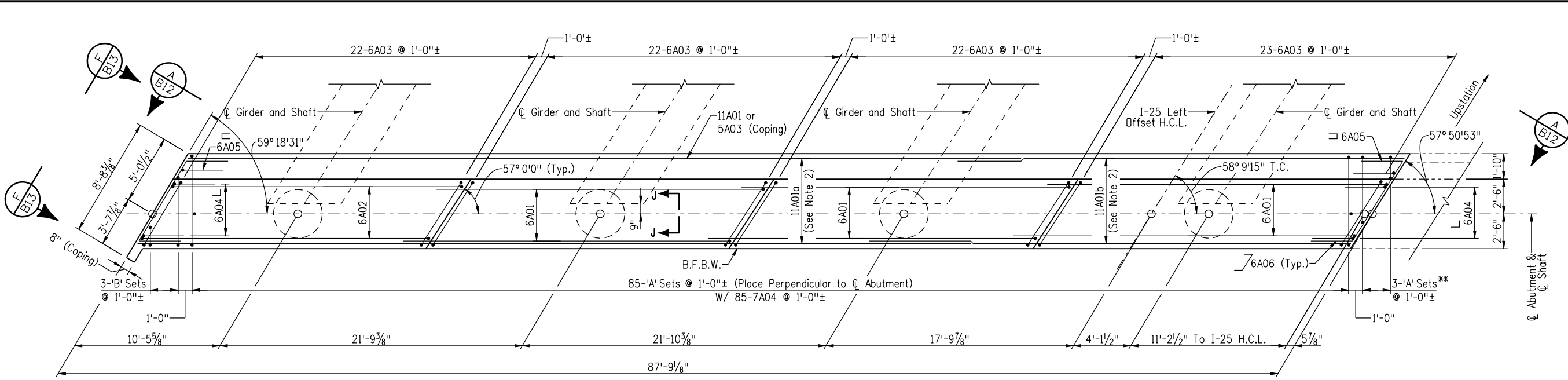
*Tip Elevation is an Estimate. Engineer to Verify Actual Tip Elevation Based on Actual Bedrock Elevation and Required Minimum Rock Socket.
**Axial Load is for AASHTO LRFD Strength Load Groups (Factored Loads).

Resistance Type	0-1'	1'-10'	Below 10'	Nominal Resistance	Resistance Factor
Side Resistance In Bedrock	-	7 ksf	11 ksf	-	0.70
Base Resistance In Bedrock	-	-	-	200 ksf	0.70

- NOTES:**
- Temporary Casing is Anticipated for Construction. See Special Provisions for Dewatering and Additional Information.
 - Spirals are Non-Epoxy Coated. Vertical Bars That Project Out the Top of the Shaft Shall Be Epoxy Coated. Other Vertical Bars May Be Non-Epoxy Coated.
 - Extend Spirals 1/2 Turn Into the Core of the Caisson at Each End. Spirals may be Spliced with a Minimum overlap of 1 Turn.
 - Threaded Couplers may be Used on Vertical Bars to Achieve Total Length. No Couplers Shall be Located in the Portion of the bar Extending from the Top of the Shaft or Within 5' from the Top of Shaft. Spiral may be Shifted Up or Down to Miss Couplers Provided the Average Spacing is Maintained. Couplers Shall be Threaded Type.
 - Drilled Caisson Concrete is Class BZ. ALL Concrete In Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 - See Special Provision Revision of Section 250, Environmental Health and Safety Management for Material Handling of Excavated Material.
 - Oversized Casing Shall be Made of Steel At Least 1/8" Thick or Corrugated and Shall Allow 4" of Shaft Movement in Any Direction. The Void Between Shaft and Casing Shall be Filled With Bentonite Slurry, See Specification Revision of Section 503 - Drilled Caissons. All Costs Associated With Oversized Casing and Slurry are Included in Drilled Caisson (42 Inch).

Print Date: 1/7/2011	Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311\FBE_PH2_09_Drilled_Caisson_Details.dgn	Date: 12/3/2010 Rev. 1 (reissued) MK	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	I-25 OVER SANTA FE	BR 0252-407
Horiz. Scale: 1:1 Vert. Scale: As Noted	Date: 1/3/2011 Rev. 2 (reissued) MK	Region 6	Revised:	DRILLED CAISSON DETAILS	17783
Unit Information Unit Leader Initials	Date: 1/10/2011 Rev. 3 (reissued) MK	RLB	Void:	Designer: M. Keller Structure: F-16-XS	Sheet Number 110 C
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222				Detailer: S. Fall Numbers:	
				Sheet Subset: Bridge Subset Sheets: B9 of 57	

PRELIMINARY - NOT FOR CONSTRUCTION



- NOTES:**
- Dimensions are At * Abutment, Unless Noted Otherwise.
 - Stagger Splice Locations of #9, #10 and #11 Bars, Splice #9 Bars 5'-9", Splice #10 Bars 7'-4" & Splice #11 Bars 9'-0".
 - 'A' Sets Consist of: 1-4A01, 1-5A01, 1-5A13, 1-7A01 & 1-7A02
'B' Sets Consist of: 2-7A05
'D' Sets Consist of: 1-7A06, 1-7A07 & 1-7A08
'E' Sets Consist of: 2-5A04, 2-5A05, 1-5A08, 2-5A09 & 1-7A03.
 - Space 'E' Sets to Avoid Girder Webs and Tendon Anchors.
 - **5. Modify Horizontal Legs of 7A01 & 7A02 Bars to Fit at Skewed End.
 - Abutment Concrete is Class 'D'. All Concrete in Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 - Reinforcing Concrete Cover Shall Be 3" On Bottom of Seat, 2" Elsewhere.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	MSK	12/10
RKM	12/10	MSK	12/10	JRD	12/10

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_10_Abt1_Dims&Reinf1.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
12/3/2010	Rev. 1 (Reissued)	MK
1/3/2011	Rev. 2 (reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

Colorado Department of Transportation

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Region 6 **RLB**

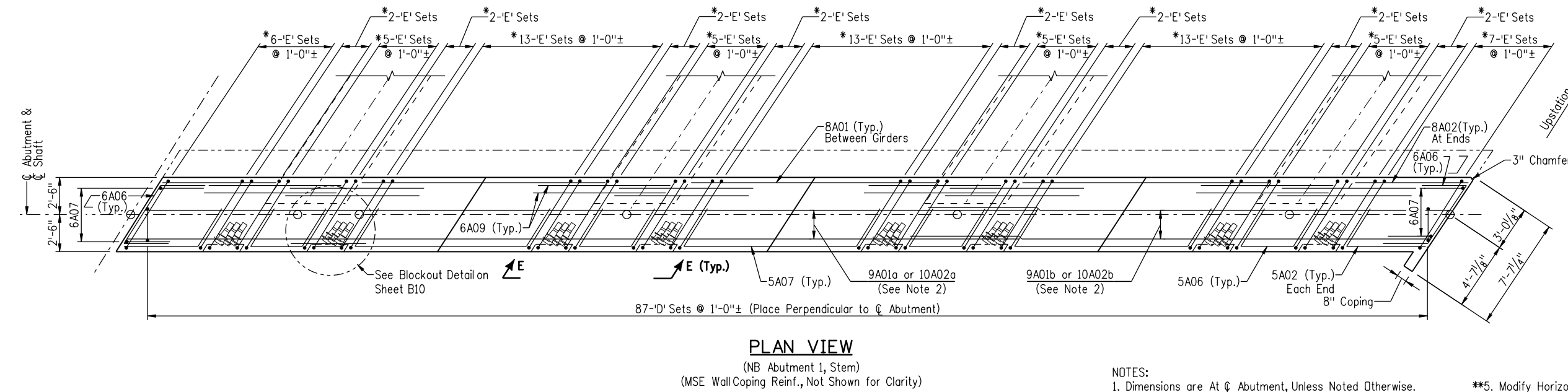
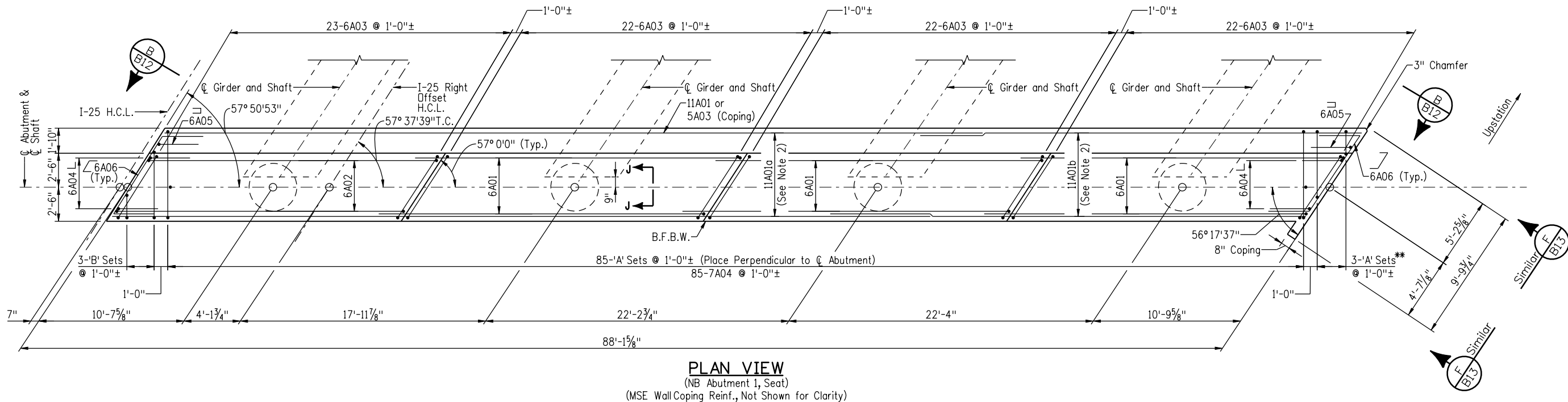
As Constructed
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 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 ABUTMENT 1 DIMS. & REINF. I**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B10 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 111 C

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 1/7/2011



- NOTES:**
- Dimensions are At \bar{C} Abutment, Unless Noted Otherwise.
 - Stagger Splice Locations of #9, #10 and #11 Bars, Splice #9 Bars 5'-9", Splice #10 Bars 7'-4" & Splice #11 Bars 9'-0".
 - 'A' Sets Consist of: 1-4A01, 1-5A01, 1-5A13, 1-7A01 & 1-7A02
'B' Sets Consist of: 2-7A05
'D' Sets Consist of: 1-7A06, 1-7A07 & 1-7A08
'E' Sets Consist of: 2-5A04, 2-5A05, 1-5A08, 2-5A09, & 1-7A03.
 - Space 'E' Sets to Avoid Girder Webs and Tendon Anchors.
 - Modify Horizontal Legs of 7A01 & 7A02 Bars to Fit at Skewed End.
 - Abutment Concrete is Class 'D'. All Concrete in Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 - Reinforcing Concrete Cover Shall Be 3" On Bottom of Seat, 2" Elsewhere.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
Designed By	MSK	INITIAL	DATE	INITIAL	DATE
Checked By	RKM	SUF	12/10	MSK	12/10
		MSK	12/10	JRD	12/10

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_11_Abt1_Dims&Reinf2.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

Colorado Department of Transportation

DOT
 DEPARTMENT OF TRANSPORTATION

2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

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 Revised:
 Void:

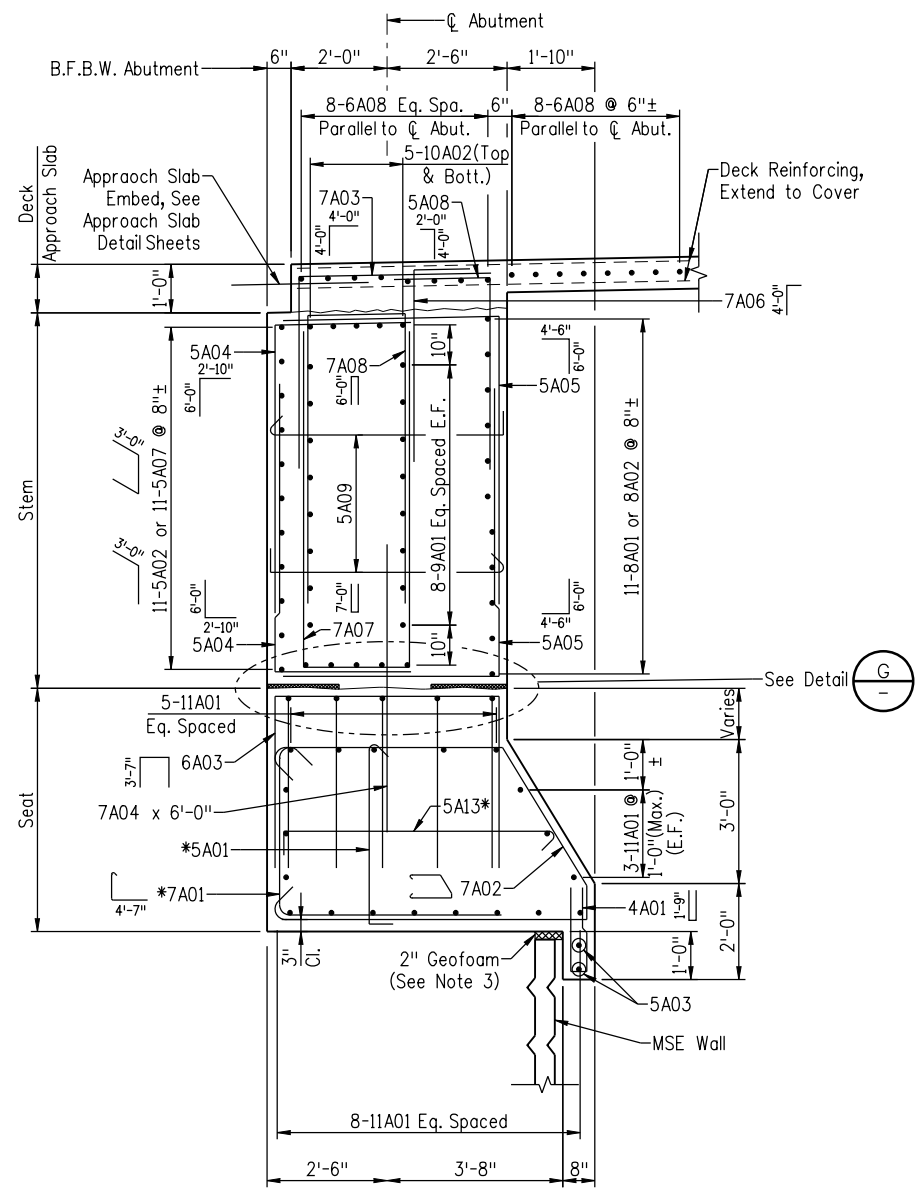
**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 ABUTMENT 1 DIMS. & REINF. II**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B11 of 57

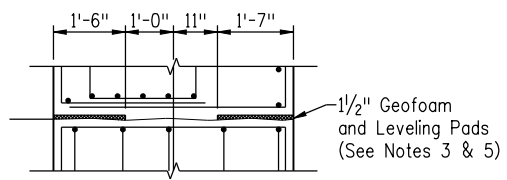
Project No./Code

BR 0252-407
 17783
 Sheet Number 112 C

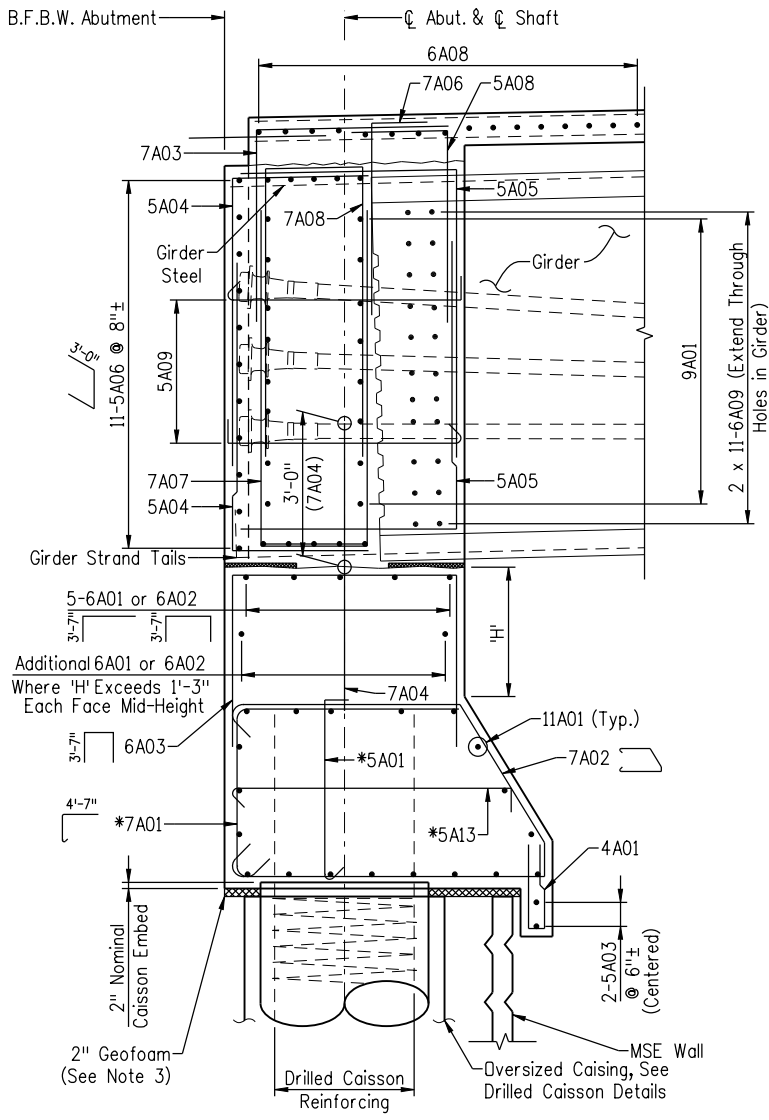
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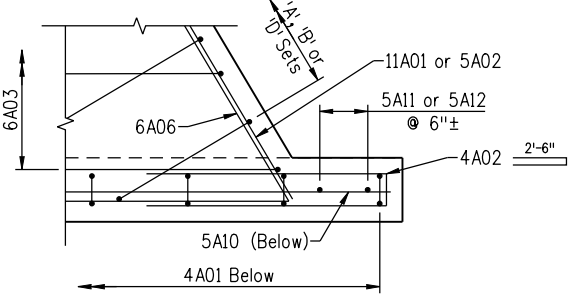
SECTION C
(Typical NB & SB)



DETAIL G

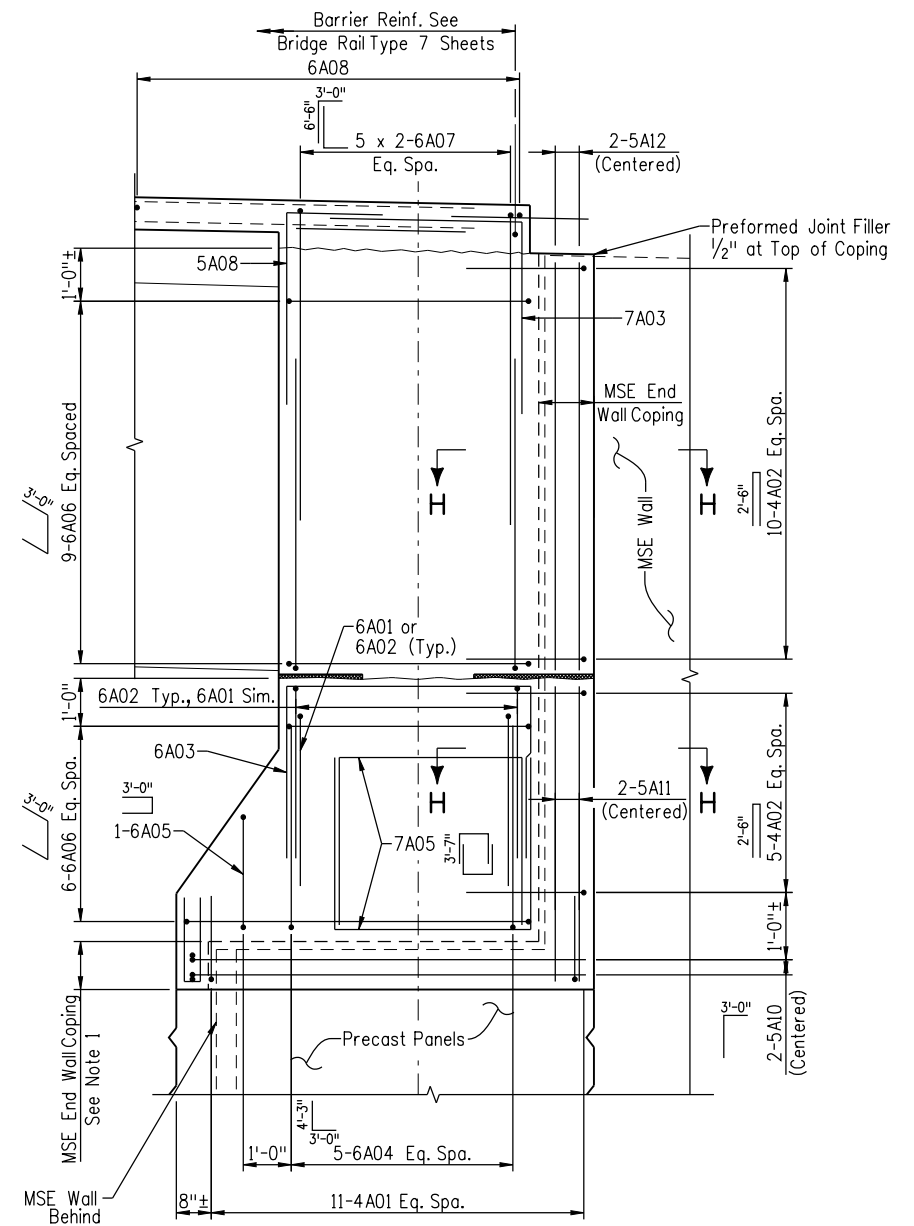


SECTION D
(Typical NB & SB)



SECTION H
(Coping Reinforcing)

Not all Typical Reinforcing Shown for Clarity



VIEW F
(West End, SB Abutment Shown)

(Other Ends Similar, See Note 1)
(Typical Reinforcing Not Shown)

NOTES:

- MSE End Wall Coping Exists at the SB Abutment West End and the NB Abutment East End. Where the Coping Does Not Exist, Bars 4A01, 5A10, 5A11 & 5A12 Are Not Required.
- Concrete Cover Shall be 3" On Bottom of Seat, 2" Elsewhere.
- Rigid Cellular Polystyrene Geofoam Shall Be in Accordance With ASTM D6817.
- For Deck Reinforcing, See Deck Reinforcing Details Sheets.
- For Leveling Pad Details, See Leveling Pad Details Sheet.
- Alternate Hooks on 5A01, 5A13 & 7A01 Bars.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	MSK	12/10
RKM	12/10	MSK	12/10	JRD	12/10

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_13_Abt1_Dims&Reinf4.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

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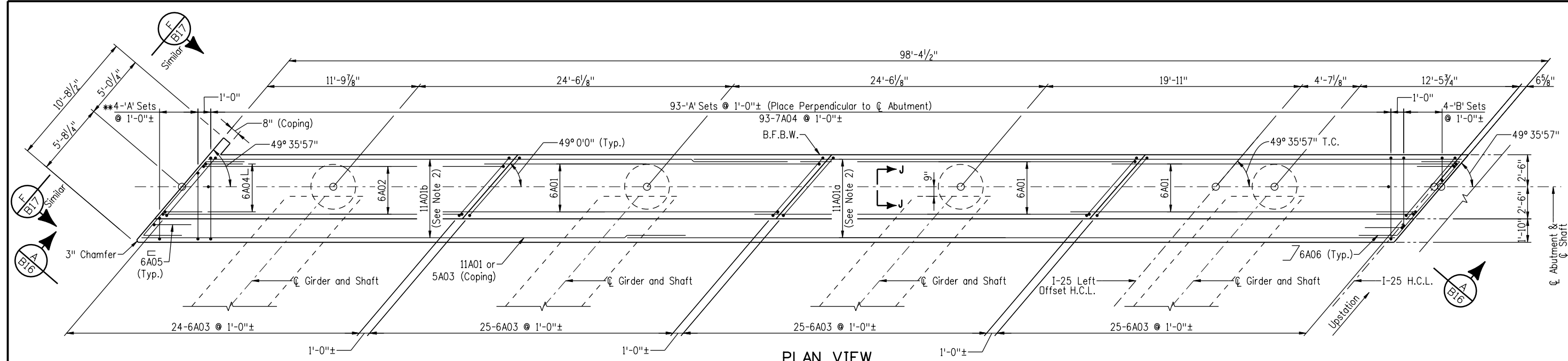
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Revised:
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Detailer:	S. Fall	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets:	B13 of 57

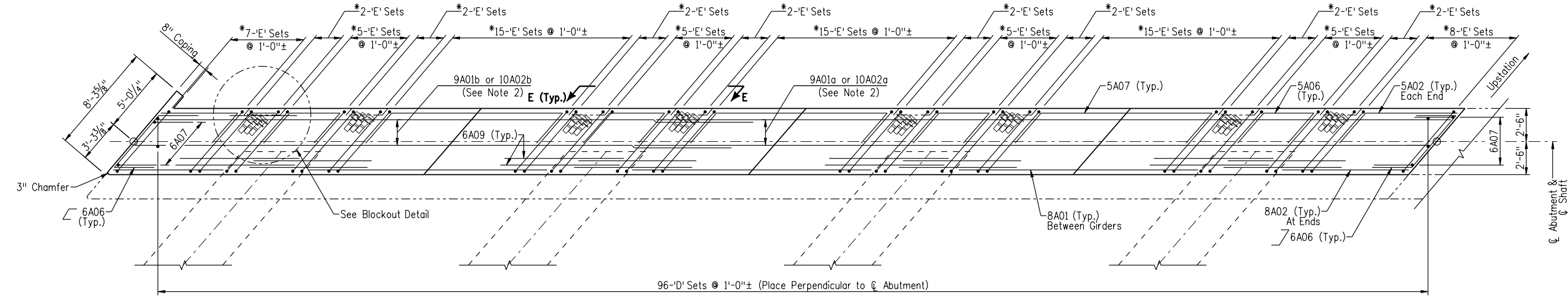
Project No./Code
BR 0252-407
17783
Sheet Number 114 C

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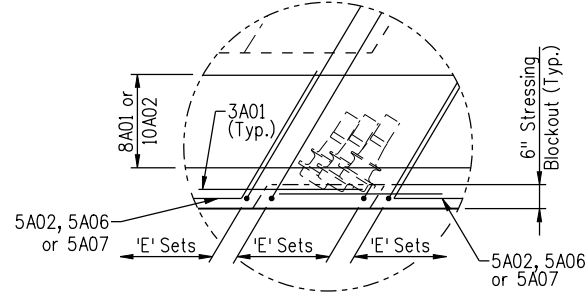
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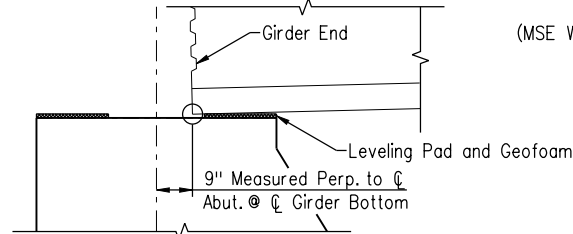
PLAN VIEW
(SB Abutment 4, Seat)
(MSE Wall Copping Reinforcing Not Shown)



PLAN VIEW
(SB Abutment 4, Stem)
(MSE Wall Copping Reinforcing Not Shown)



BLOCKOUT DETAIL
(Typical At Each Stressing Blockout)



DETAIL (J)

- NOTES:**
- Dimensions are At \bar{C} Abutment, Unless Noted Otherwise.
 - Stagger Splice Locations of #9, #10 and #11 Bars, Splice #9 Bars 5'-9", Splice #10 Bars 7'-4" & Splice #11 Bars 9'-0".
 - 'A' Sets Consist of: 1-4A01, 1-5A01, 1-5A13, 1-7A01 & 1-7A02
'B' Sets Consist of: 2-7A05
'D' Sets Consist of: 1-7A06, 1-7A07 & 1-7A08
'E' Sets Consist of: 2-5A04, 2-5A05, 1-5A08, 2-5A09 & 1-7A03.
 - Space 'E' Sets to Avoid Girder Webs and Tendon Anchors.
 - Modify Horizontal Legs of 7A01 & 7A02 Bars to Fit at Skewed End.
 - Abutment Concrete is Class 'D'. All Concrete in Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 - Reinforcing Concrete Cover Shall Be 3" On Bottom of Seat, 2" Elsewhere.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	MSK	12/10	MSK	12/10
RKM	12/10	MSK	12/10	JRD	12/10

Print Date: 1/7/2011
File Name: 16311FBE_PH2_14_Abt4_Dims&Reinf1.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FIGG
1873 S. BELLAIRE ST., STE 1500
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Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

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Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

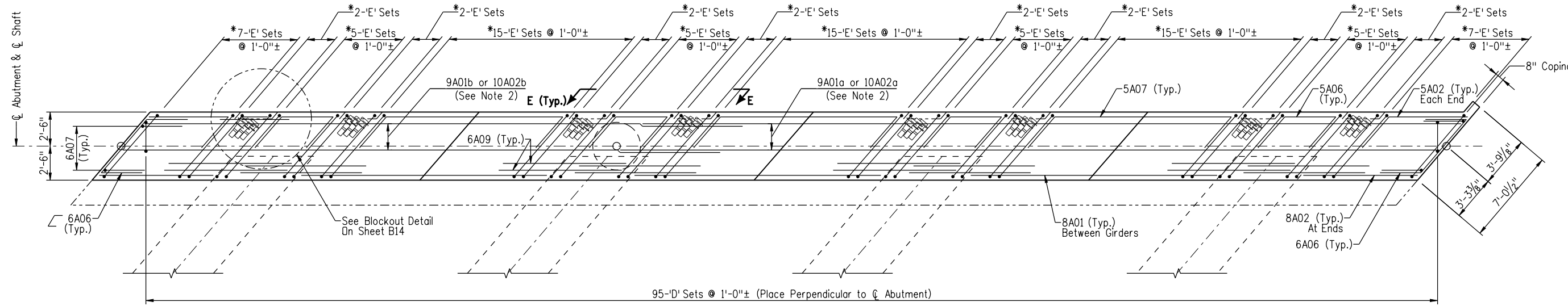
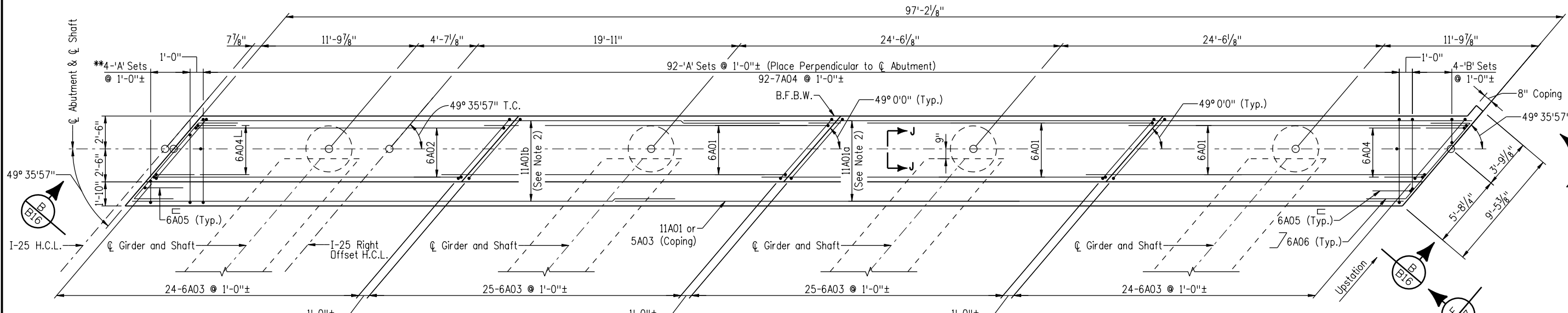
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I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE ABUTMENT 4 DIMS. & REINF. I			
Designer:	M. Keller	Structure	F-16-XS
Detailer:	S. Fall	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	B14 of 57

Project No./Code
BR 0252-407
17783
Sheet Number 115 C

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PRELIMINARY - NOT FOR CONSTRUCTION



- NOTES:**
1. Dimensions are At \bar{C} Abutment, Unless Noted Otherwise.
 2. Stagger Splice Locations of #9, #10 and #11 Bars, Splice #9 Bars 5'-9", Splice #10 Bars 7'-4" & Splice #11 Bars 9'-0".
 3. 'A' Sets Consist of: 1-4A01, 1-5A01, 1-5A13, 1-7A01 & 1-7A02
'B' Sets Consist of: 2-7A05
'D' Sets Consist of: 1-7A06, 1-7A07 & 1-7A08
'E' Sets Consist of: 2-5A04, 2-5A05, 1-5A08, 2-5A09 & 1-7A03.
 4. Space 'E' Sets to Avoid Girder Webs and Tendon Anchors.
 5. Modify Horizontal Legs of 7A01 & 7A02 Bars to Fit at Skewed End.
 6. Abutment Concrete is Class 'D'. All Concrete in Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 7. Reinforcing Concrete Cover Shall Be 3" On Bottom of Seat, 2" Elsewhere.

Revision Dates (Preliminary Stage Only)	
NO.	DATE

Design		Detail		Quantities	
DESIGNED BY	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	MSK	12/10	MSK	12/10
RKM	12/10	RKM	12/10	RKM	12/10

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_15_Abt4_Dims&Reinf2.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
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 DENVER CO, 80222

Sheet Revisions			
NO.	Date:	Comments	Init.
(R-1)	12/3/2010	Rev. 1 (Reissued)	MK
(R-2)	1/3/2011	Rev. 2 (reissued)	MK
(R-3)	1/10/2011	Rev. 3 (reissued)	MK

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Region 6 **RLB**

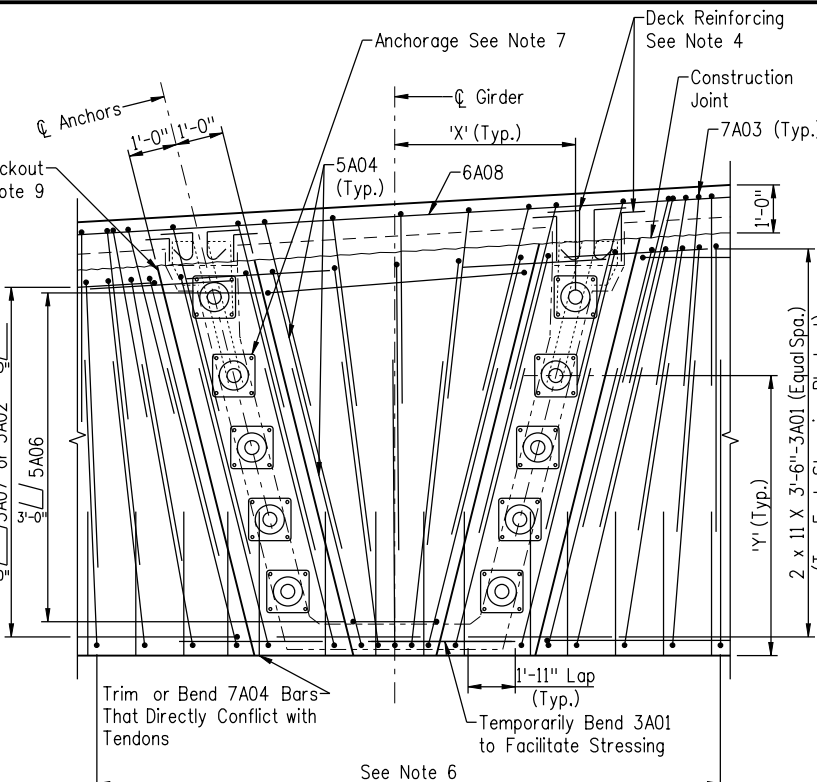
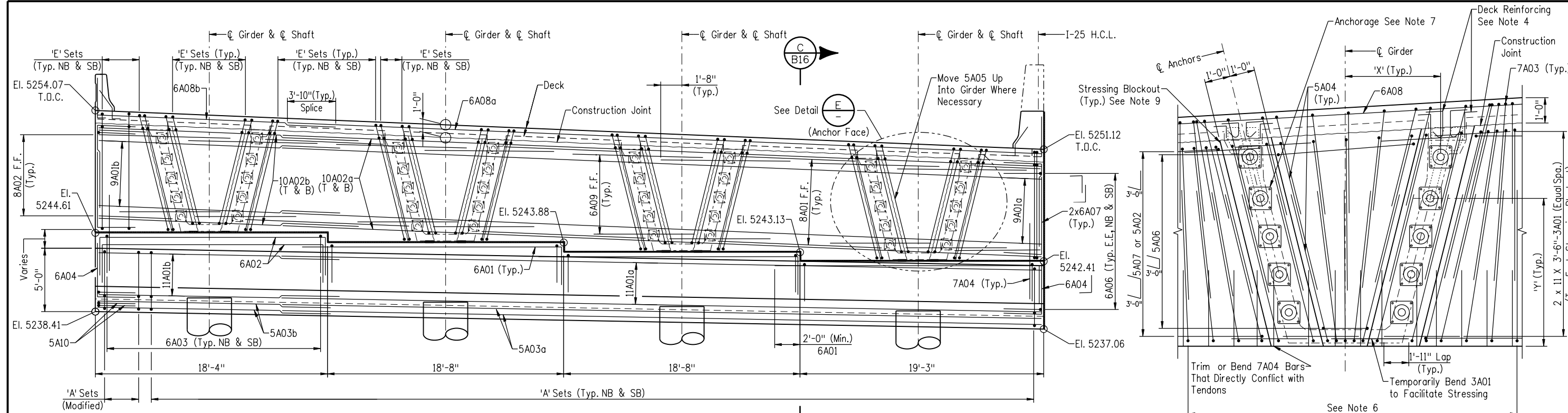
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**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 ABUTMENT 4 DIMS. & REINF. II**

Designer: M. Keller Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B15 of 57

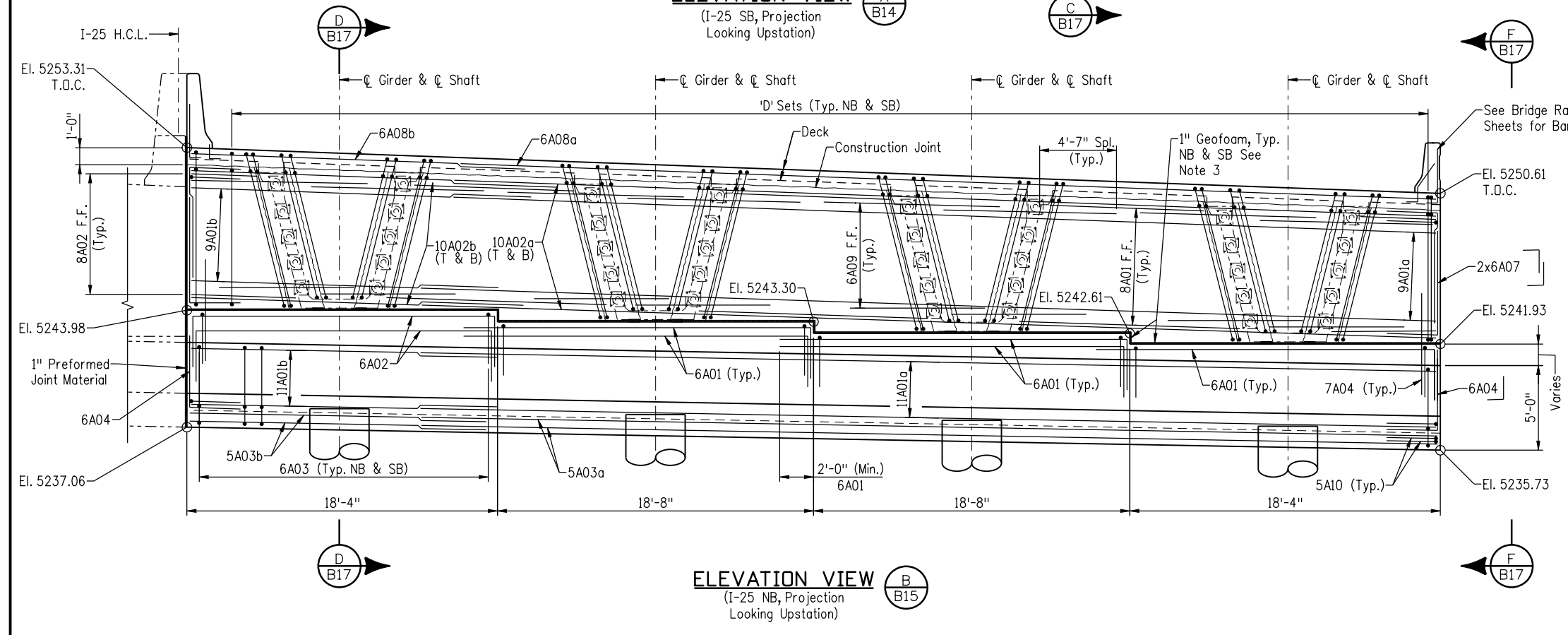
Project No./Code
 BR 0252-407
 17783
 Sheet Number 116 C

PRELIMINARY - NOT FOR CONSTRUCTION



ELEVATION VIEW A
(I-25 SB, Projection Looking Upstation)

DETAIL E
(Projection Looking Downstation, Typical Each Girder)



ELEVATION VIEW B
(I-25 NB, Projection Looking Upstation)

Tendon	Left		Right	
	'X' (ft)	'Y'* (ft)	'X' (ft)	'Y'* (ft)
T1	3.741	7.312	3.707	7.177
T2	3.373	5.838	3.330	5.668
T3	2.990	4.308	2.960	4.189
T4	2.607	2.778	2.589	2.703
T5	2.227	1.256	2.217	1.216

- * Includes 1/2" for Leveling Pads.
- NOTES:
1. Stagger Splice Locations of #9, #10 and #11 Bars, Splice #9 Bars 5'-9", Splice #10 Bars 7'-4" & Splice #11 Bars 9'-0".
 2. Concrete Cover Shall be 3" On Bottom of Seat, 2" Elsewhere.
 3. Rigid Cellular Polystyrene Geofoam Shall be in Accordance With ASTM D6817.
 4. For Deck Reinforcing, See Deck Reinforcing Details Sheets.
 5. E.E. = Each End
F.F. = Front Face
T & B = Top & Bottom
T.O.C. = Top of Concrete.
 6. Space 'E' Sets to Avoid Girder Webs and Tendon Anchors. Maintain Average Spacing As Shown on Abutment 4 Dims & Reinf. I & II.
 7. Post Tensioning Anchorages Shall be Metallic. Anchorages Shall be Multi-Plane DSI "MA", VSL "EC" or Engineer Accepted Equivalent.
 8. Elevations Shown Are at ϕ Abutment.
 9. Blockout Dimensions Shown Are Assumed for Calculating Reinforcing Quantities. Contractor Shall Determine Actual Blockout Dimensions Based on P.T. System Used. Actual Blockout Dimensions Shall be Shown in Shop Drawings.

Revision Dates (Preliminary Stage Only)			
MM/YY	DATE	BY	CHKD

Design				Detail				Quantities					
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
12/10	MSK	12/10	MSK	12/10	MSK	12/10	MSK	12/10	MSK	12/10	MSK	12/10	MSK
12/10	RKM	12/10	RKM	12/10	RKM	12/10	RKM	12/10	RKM	12/10	RKM	12/10	RKM

Print Date: 1/7/2011
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 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

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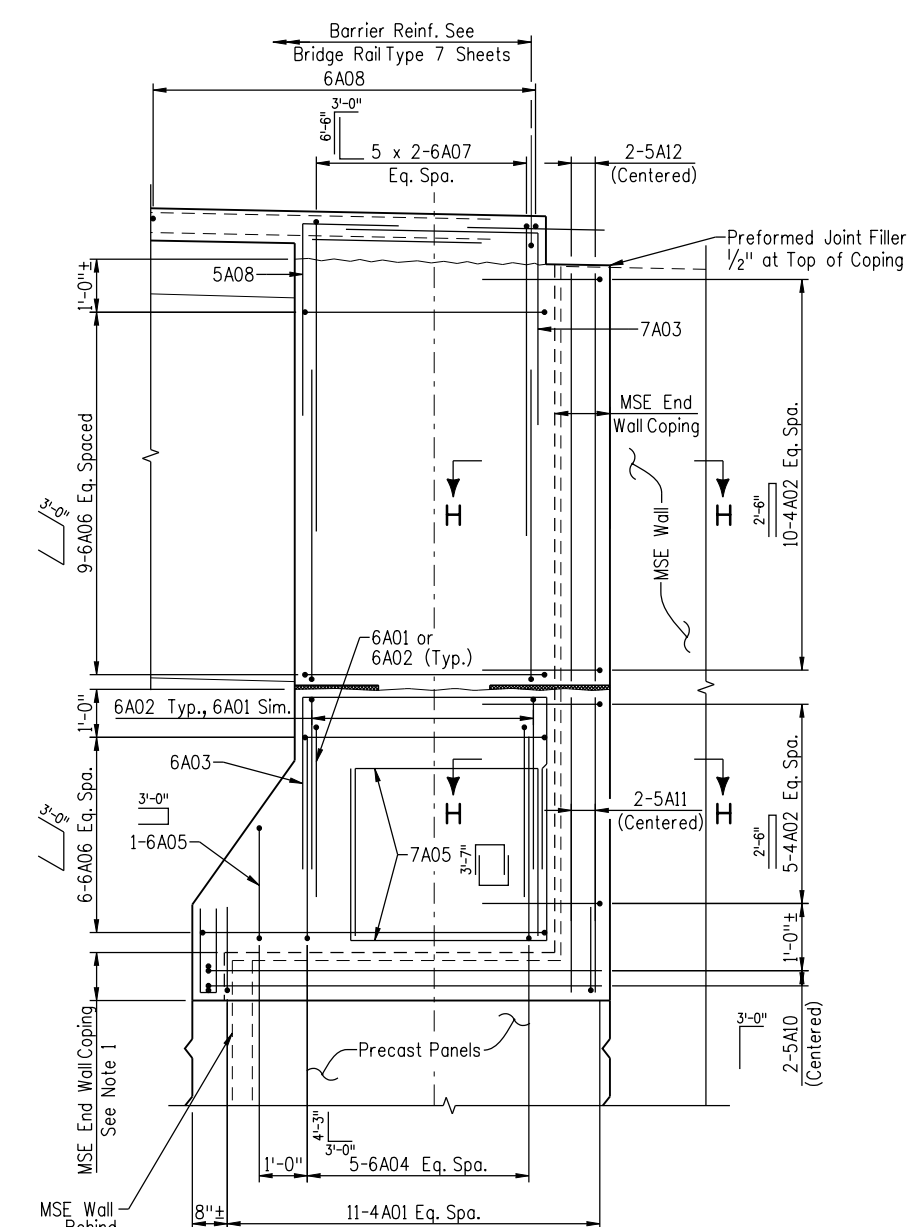
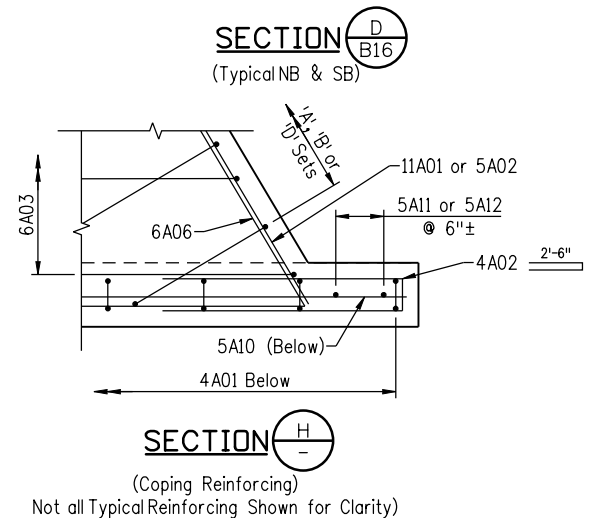
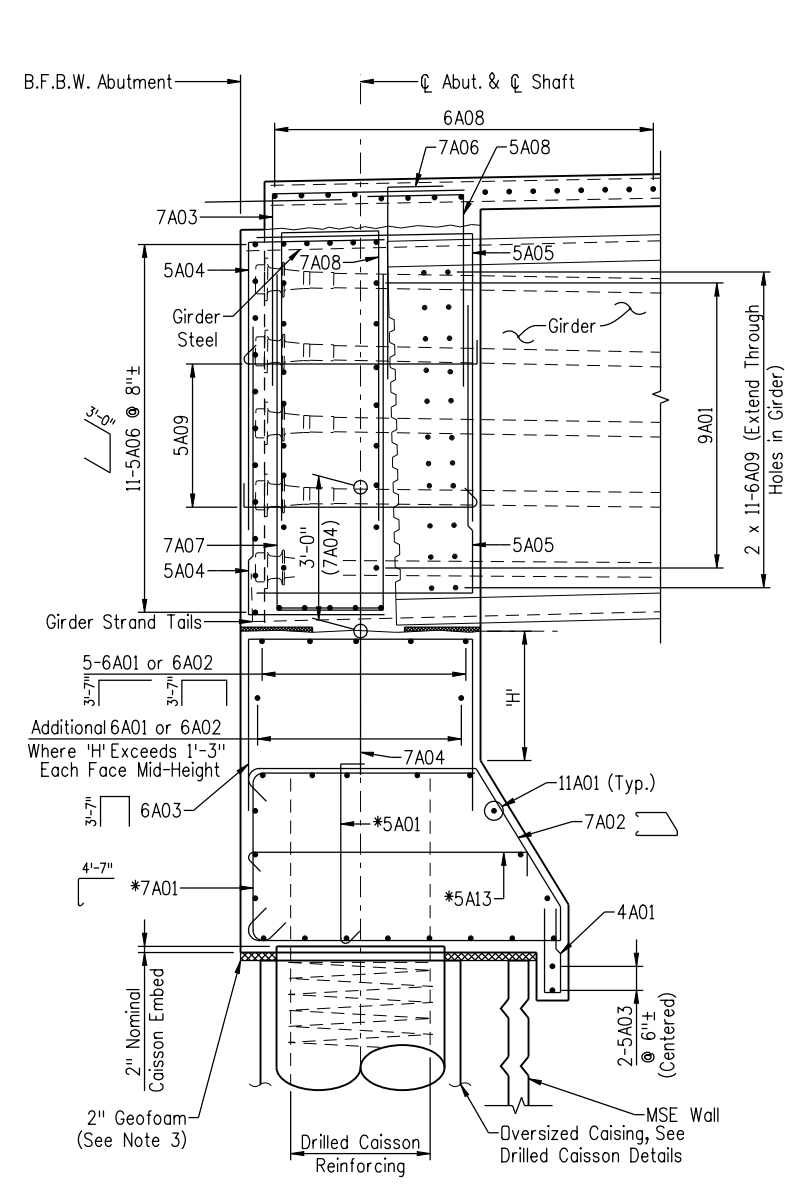
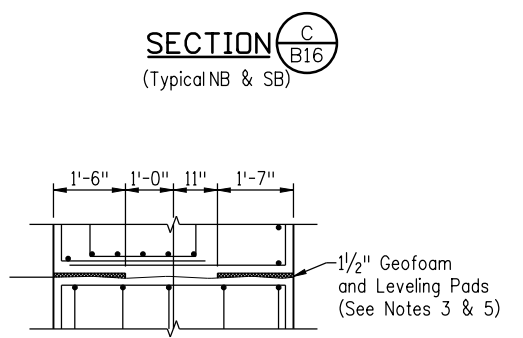
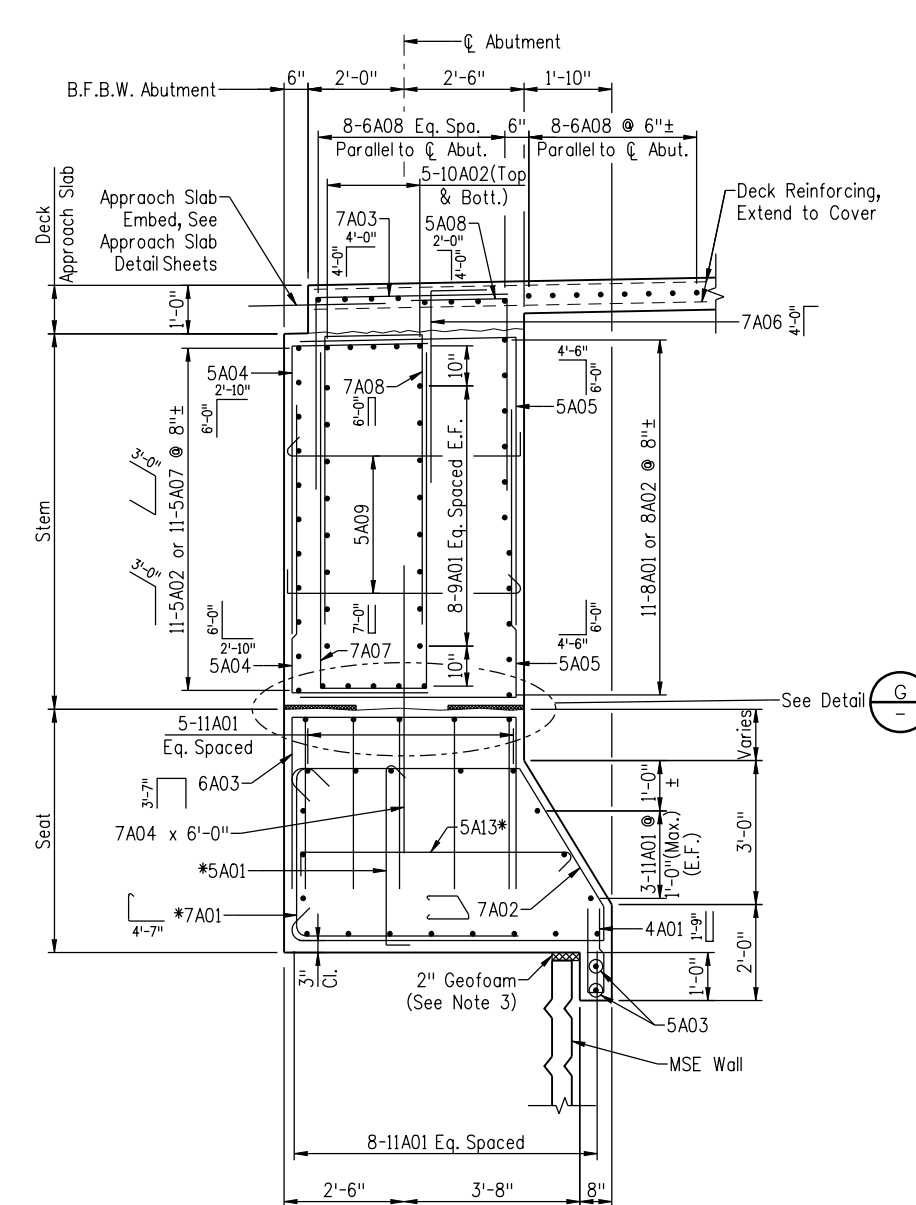
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 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 ABUTMENT 4 DIMS. & REINF. III**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B16 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 117 C

PRELIMINARY - NOT FOR CONSTRUCTION



VIEW F
(East End, NB Abutment Shown)
(Other Ends Similar, See Note 1)
(Typical Reinforcing Not Shown)

- NOTES:**
- MSE End Wall Coping Exists at the SB Abutment West End and the NB Abutment East End. Where the Coping Does Not Exist, Bars 4A01, 5A10, 5A11 & 5A12 Are Not Required.
 - Concrete Cover Shall be 3" On Bottom of Seat, 2" Elsewhere.
 - Rigid Cellular Polystyrene Geofilm Shall Be in Accordance With ASTM D6817.
 - For Deck Reinforcing, See Deck Reinforcing Details Sheets.
 - For Leveling Pad Details, See Leveling Pad Details Sheet.
 - Alternate Hooks on 5A01, 5A13 & 7A01 Bars.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	MSK	12/10	MSK	12/10
RKM	12/10	MSK	12/10	JRD	12/10

Print Date: 1/7/2011
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 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (Reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

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As Constructed
 No Revisions:
 Revised:
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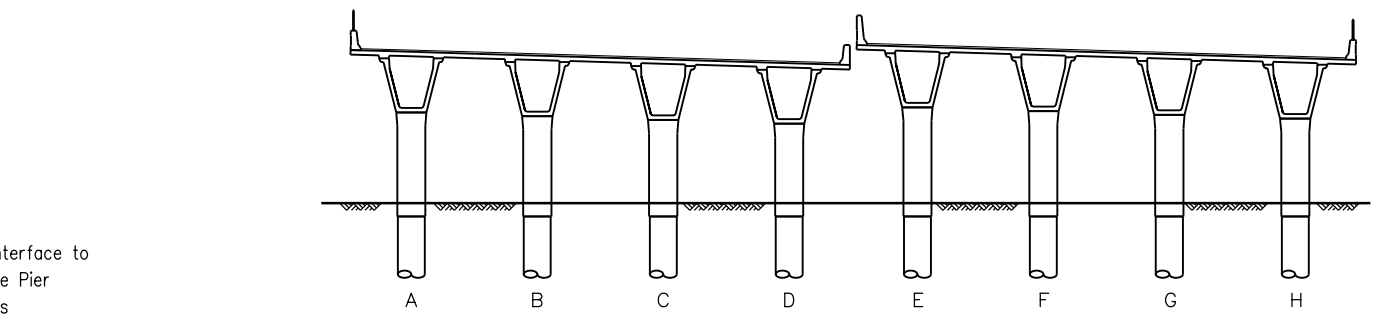
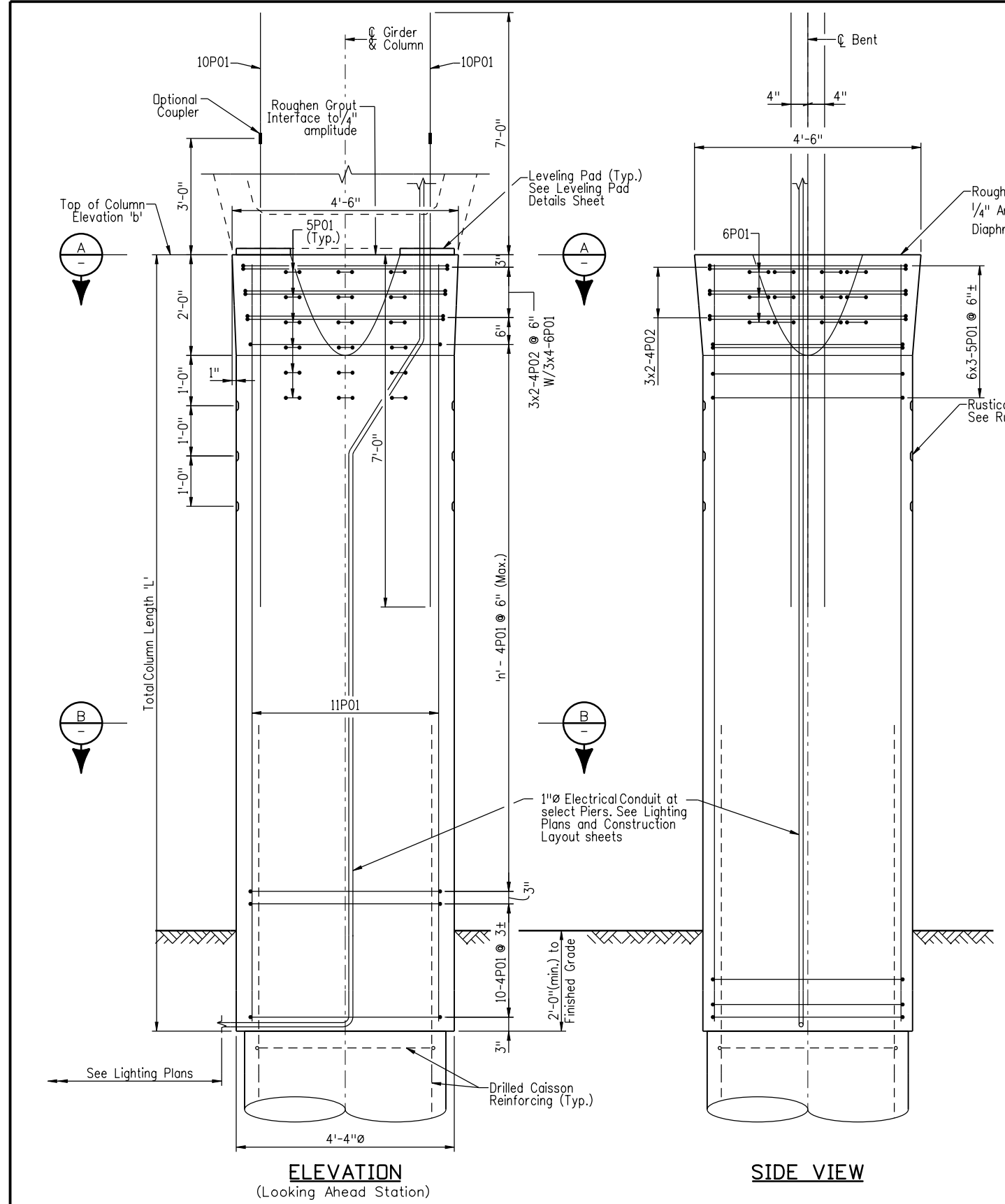
**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 ABUTMENT 4 DIMS. & REINF. IV**
 Designer: M. Keller Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B17 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 118 C

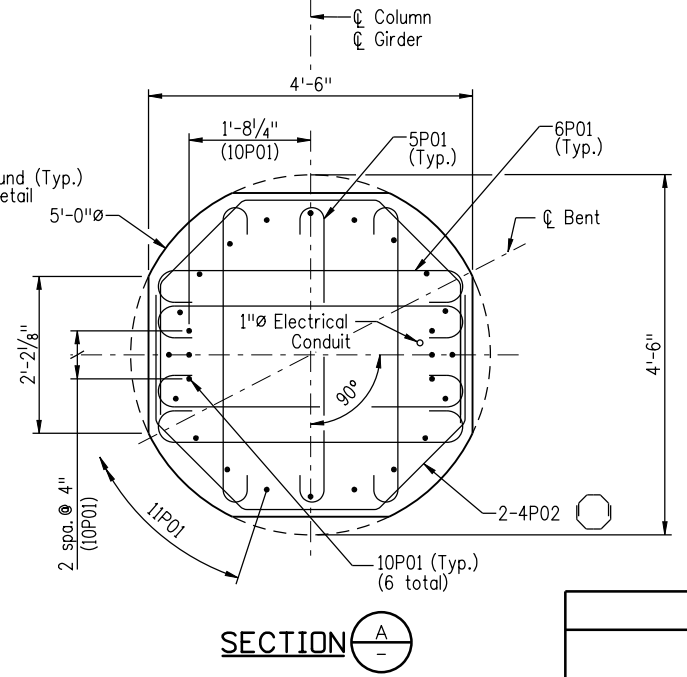
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Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

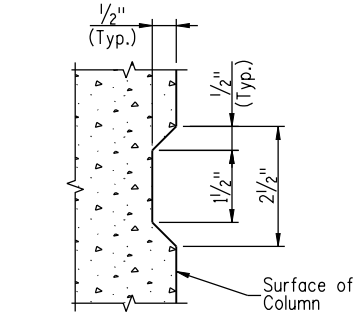
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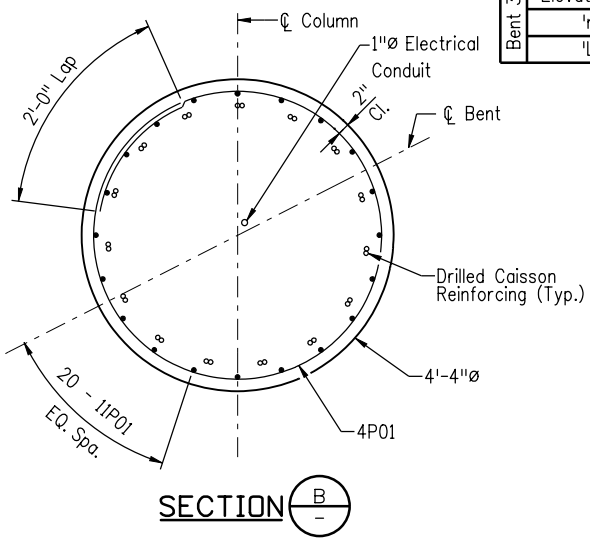
PIER COLUMN LEGEND
(Looking Ahead Station)



SECTION A



RUSTICATION DETAIL



SECTION B

		VARIABLE DIMENSIONS							
		Column							
		'A'	'B'	'C'	'D'	'E'	'F'	'G'	'H'
Bent 2	Elevation 'b'	5249.47	5248.34	5247.20	5246.06	5247.92	5246.77	5245.61	5244.52
	'n'	41	39	37	35	38	36	34	32
	'L'	24.47	23.34	22.20	21.06	22.92	21.77	20.61	19.52
Bent 3	Elevation 'b'	5247.43	5246.42	5245.47	5244.57	5246.28	5245.45	5244.68	5243.97
	'n'	39	37	35	34	37	35	34	32
	'L'	23.43	22.42	21.47	20.57	22.28	21.45	20.68	19.97

- NOTES:**
- For Horizontal Location of Pier Columns, See Foundation Layout Drawings. ϕ Pier Column = ϕ Shaft.
 - For Pier Diaphragm Information, See Pier Diaphragm Dimensions and Reinforcing Sheets.
 - For Drilled Caisson Reinforcing, See Drilled Caisson Details Sheet.
 - Reinforcing Cover Shall be 2" Unless Noted Otherwise.
 - Pier Concrete is Class 'D'. All Concrete in Contact With Soil Shall Meet Class 2 Sulfate Severity Exposure Requirements.
 - Rotate Lap Splices for 4P01 Ties 180° on Alternating Ties. Contractor May Substitute a Spiral of Equal Size and Pitch for the 4P01 Bars. If Substituted the Spiral Shall Extend 1/2 Turn Into the Core of the Pier at Each End.

Print Date: 1/7/2011
 File Name: 16311\FBE_PH2_18_Pier_Dim_Reinf.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
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Sheet Revisions			
Date:	Comments	Init.	
1/3/2011	Rev. 2 (reissued)	MK	
1/10/2011	Rev. 3 (reissued)	MK	

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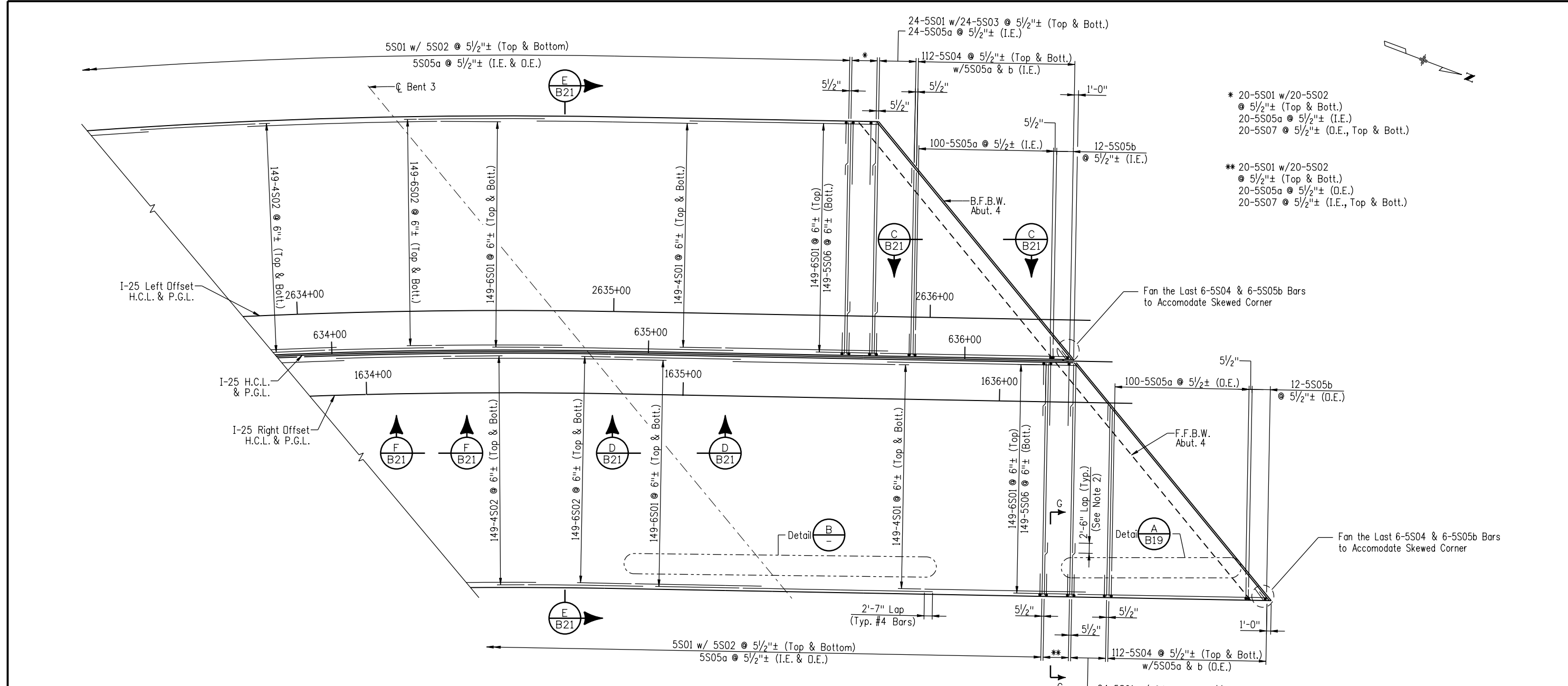
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**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 PIER COLUMN DIMS. & REINF.**

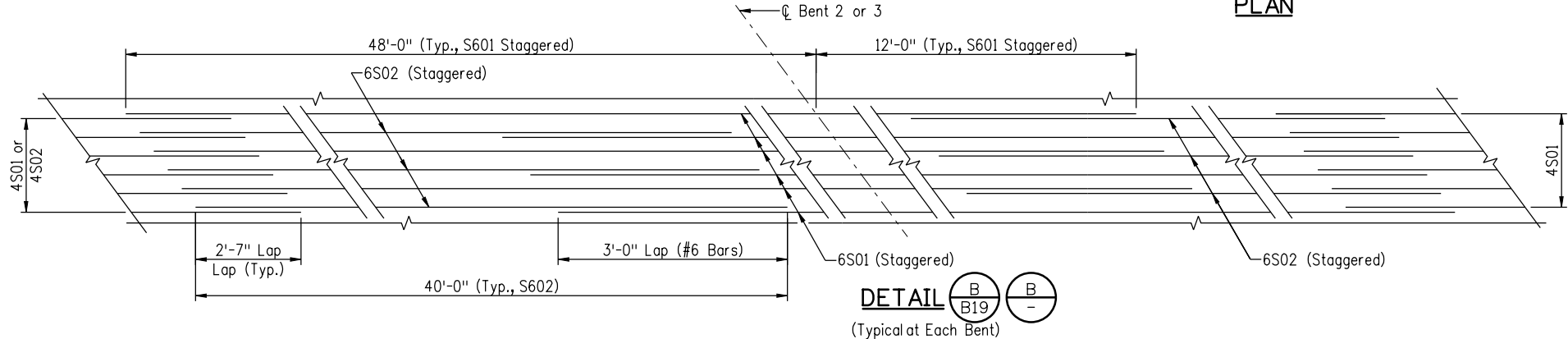
Designer: M. Keller Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B18 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 119 C

PRELIMINARY - NOT FOR CONSTRUCTION



- NOTES:**
- For I-25 Horizontal Control Data, See General Layout Sheet.
 - Place Transverse Reinforcing Bars Perpendicular to I-25 H.C.L. & P.G.L. Dimensions Provided are Along I-25 H.C.L. & P.G.L. Alternate Splices as Shown.
 - Concrete Cover Shall be:
 - 2" Top of Deck
 - 1" Bottom of Deck
 - 1 1/2" Other Exterior Surfaces
 - Bridge Rail Reinforcing Bars not Shown for Clarity. See Bridge Rail Type 7 Details Sheets.
 - Additional Reinforcing in Build-Up and Closure Diaphragms not Shown for Clarity. See Deck Reinforcing III Sheet.
 - For Section G-G, See Deck Reinforcing III Sheet.
 - I.E. Denotes Inside Edge. O.E. Denotes Outside Edge.



DETAIL (Typical at Each Bent)

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_20_Deck_Reinf-II.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
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Sheet Revisions			
Date:	Comments	Init.	
1/3/2011	Rev. 2 (reissued)	MK	
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Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 DECK REINFORCING II**

Designer: K. McLaughlin Structure Numbers: F-16-XS
 Detailer: S. Franjesh
 Sheet Subset: Bridge Subset Sheets: B20 of 57

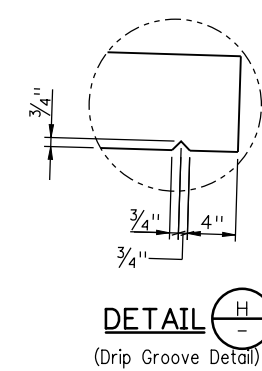
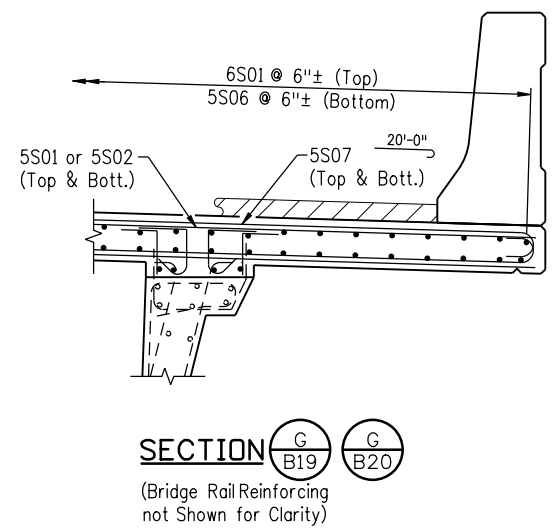
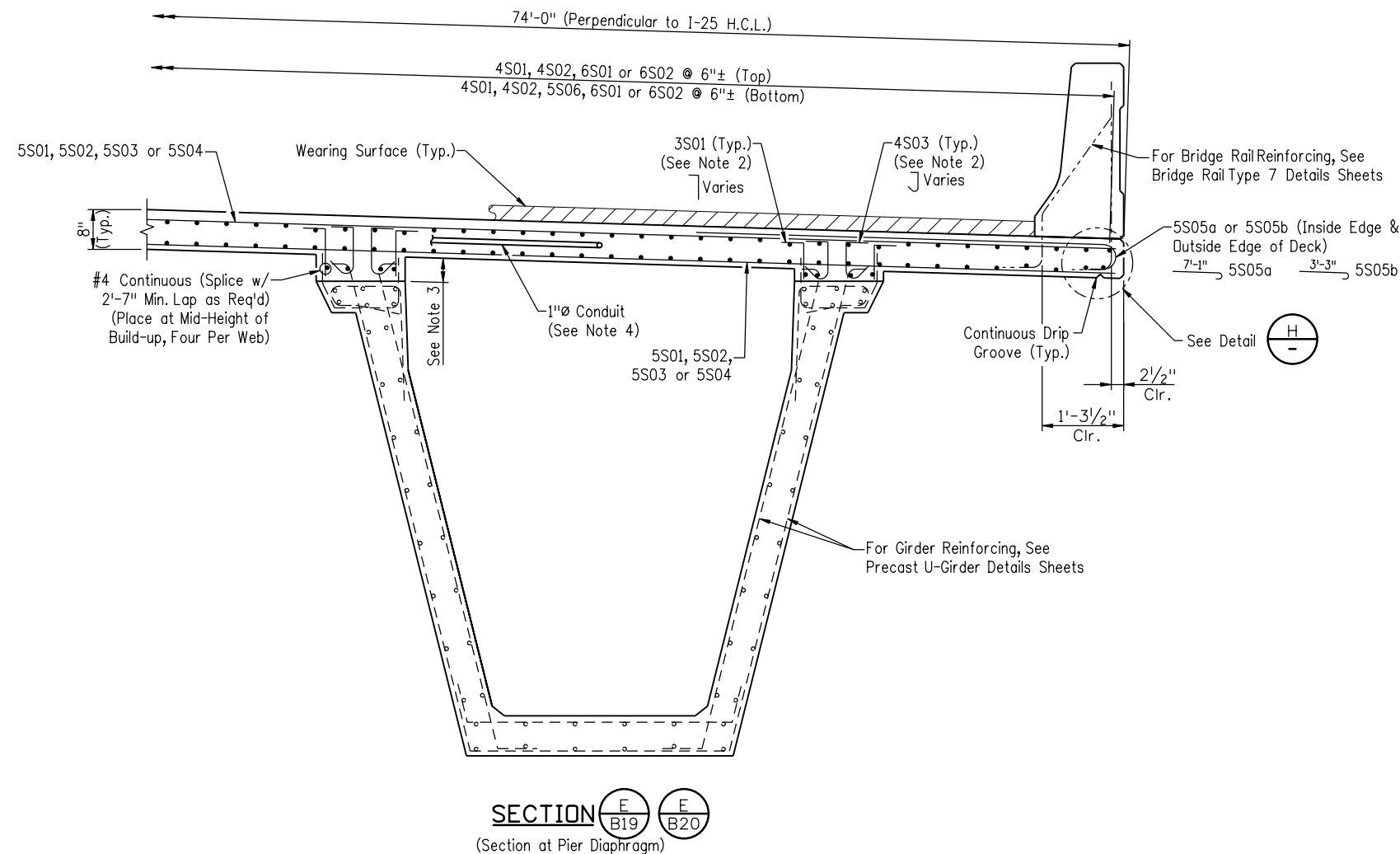
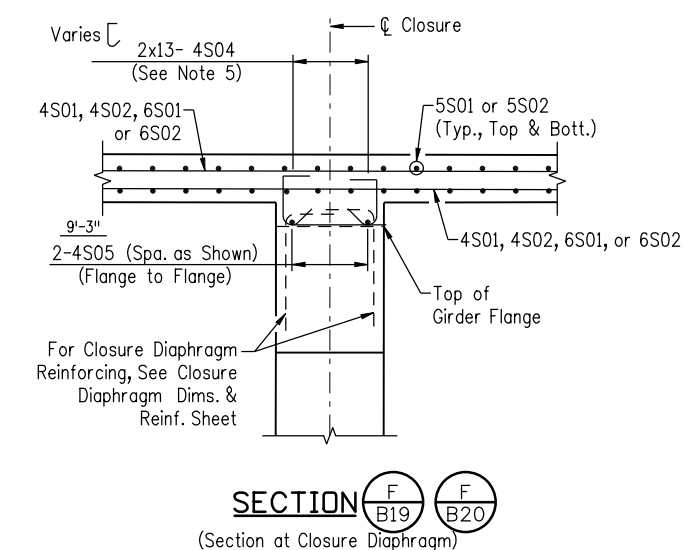
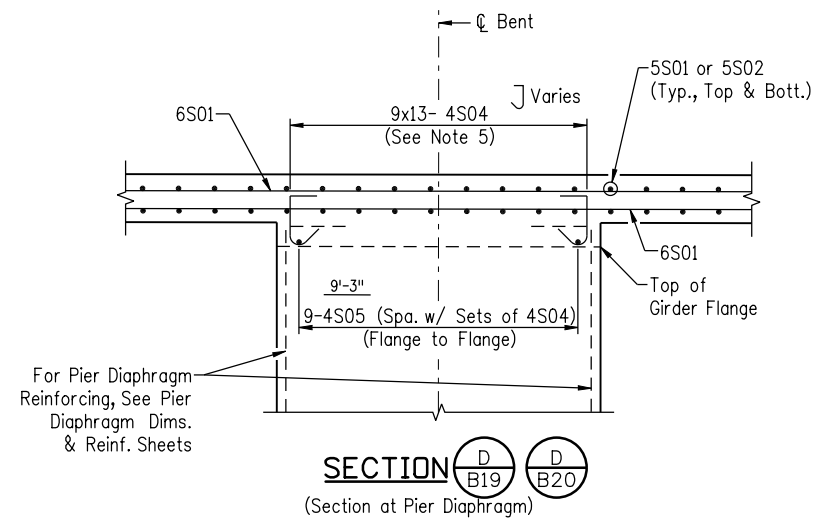
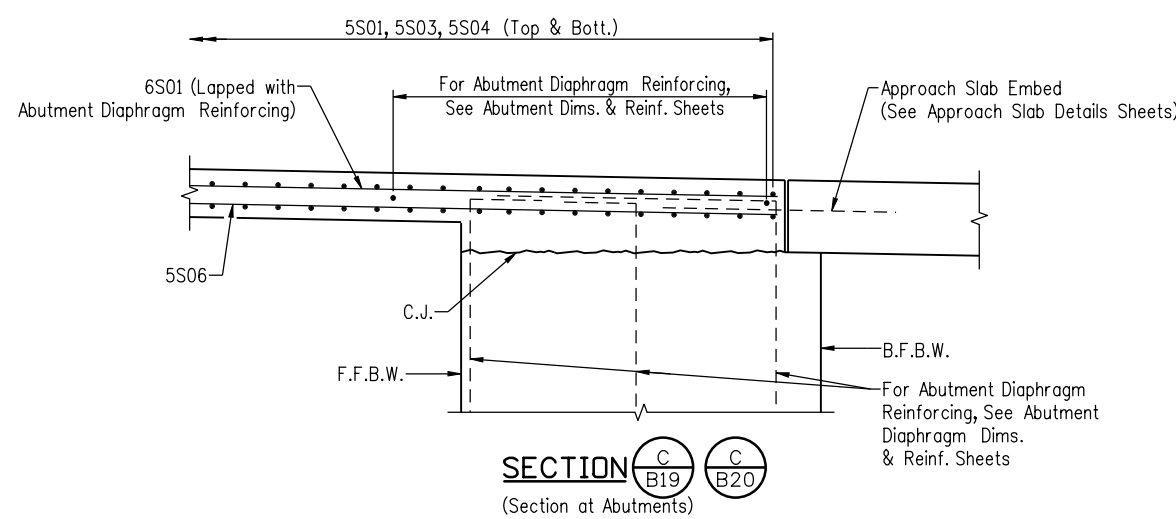
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 BR 0252-407
 17783
 Sheet Number 121 C

Revision Dates (Preliminary Stage Only)			
MM/YY	MM/YY	MM/YY	MM/YY

Design				Detail				Quantities					
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12/10	KAM	12/10	SGF	12/10	KAM	12/10	KAM	12/10	KAM	12/10	KAM	12/10	MSK
12/10	RKM	12/10	SGF	12/10	KAM	12/10	KAM	12/10	KAM	12/10	KAM	12/10	MSK

s:\12-50451 PM G:\Projects\I-25_Santa_Fe\16311FBE_PH2_20_Deck_Reinf-II.dgn 1/7/2011 CDDT-PDF driver.plt

PRELIMINARY - NOT FOR CONSTRUCTION



- NOTES:
- Concrete Cover Shall be (Unless Otherwise Noted):
2" Top of Deck
1" Bottom of Deck
1 1/2" Other Exterior Surfaces
 - Place Bars 3S01 and 4S03 With Each Set of Web and Flange Bars Extending From Top of Girder and Closure Diaphragm.
 - Haunch Thickness Varies. See Bridge Deck Elevations Sheets for Top of Deck Elevations.
 - For Conduit Location and Details, See Lighting Plans, Conduit and Lighting Details Sheet, and Construction Layout Sheets.
 - Place 4S04 Bars With Each Set of Diaphragm Bars Extending From Pier and Closure Diaphragms.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	12/10	Detailed By	12/10	Quantity By	12/10
Checked By	RKM	Checked By	KAM	Checked By	MSK

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_21_Deck_Reinf-III.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev. 2 (reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

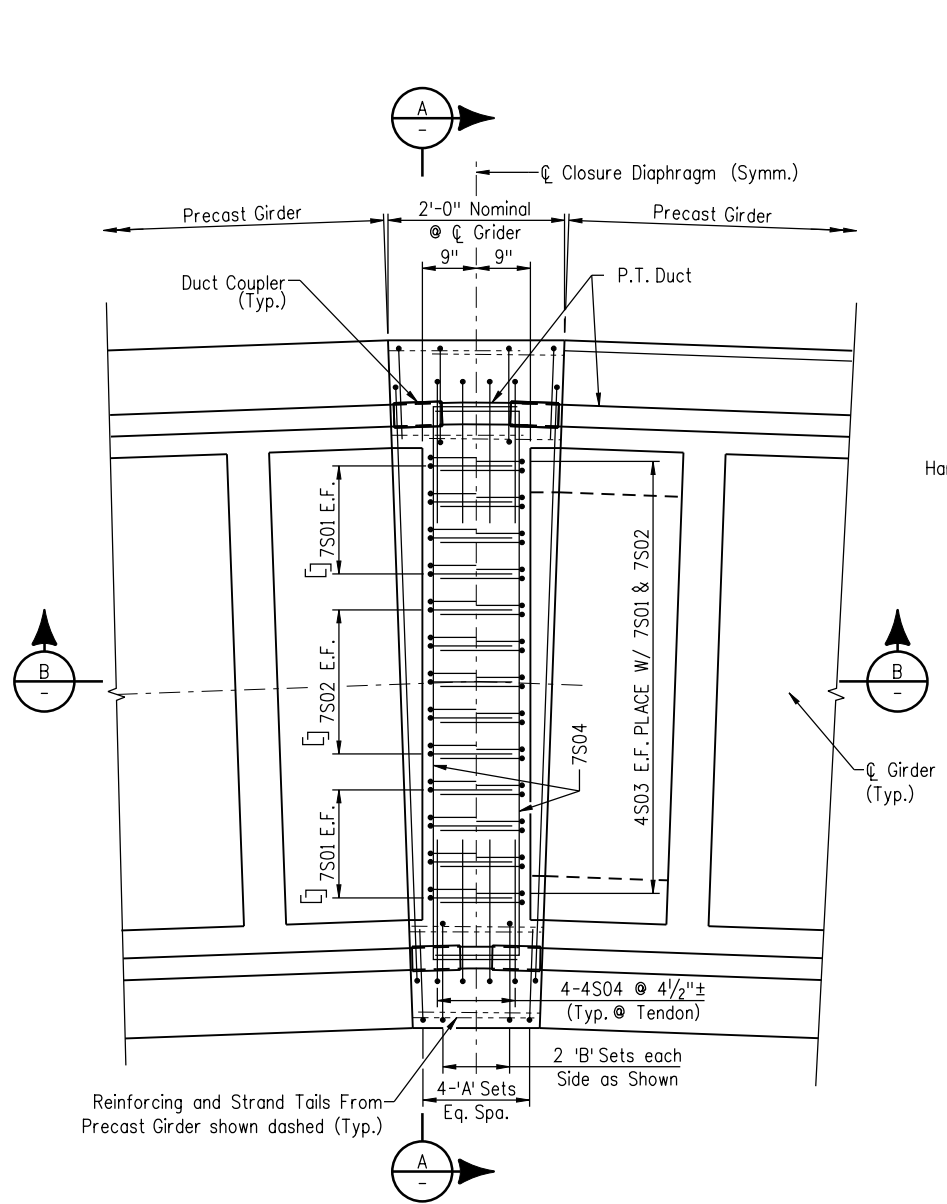
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
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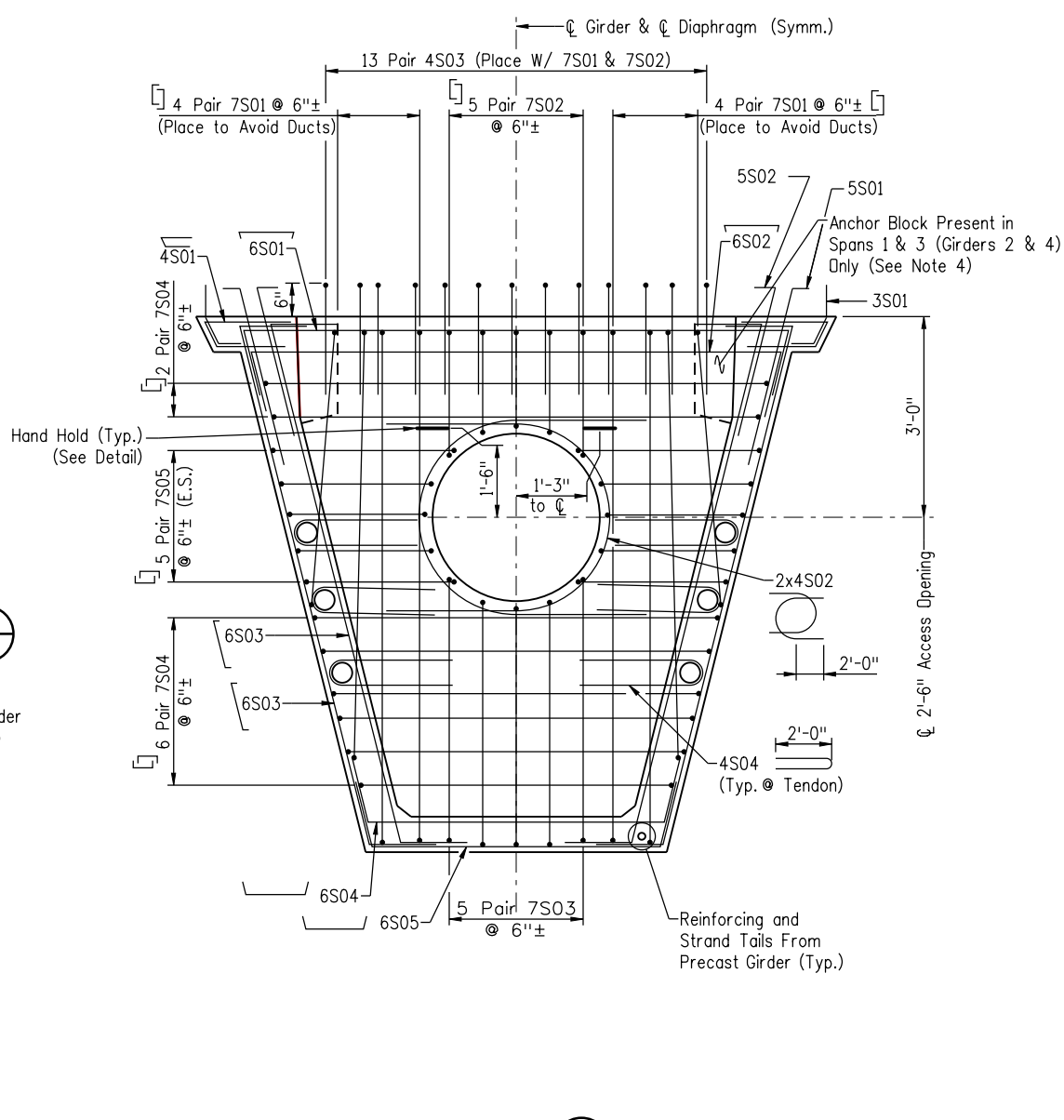
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 I-25 OVER SANTA FE
 DECK REINFORCING III
 Designer: K. McLaughlin
 Detailer: S. Franjesh
 Sheet Subset: Bridge
 Structure Numbers: F-16-XS
 Subset Sheets: B21 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 122 C

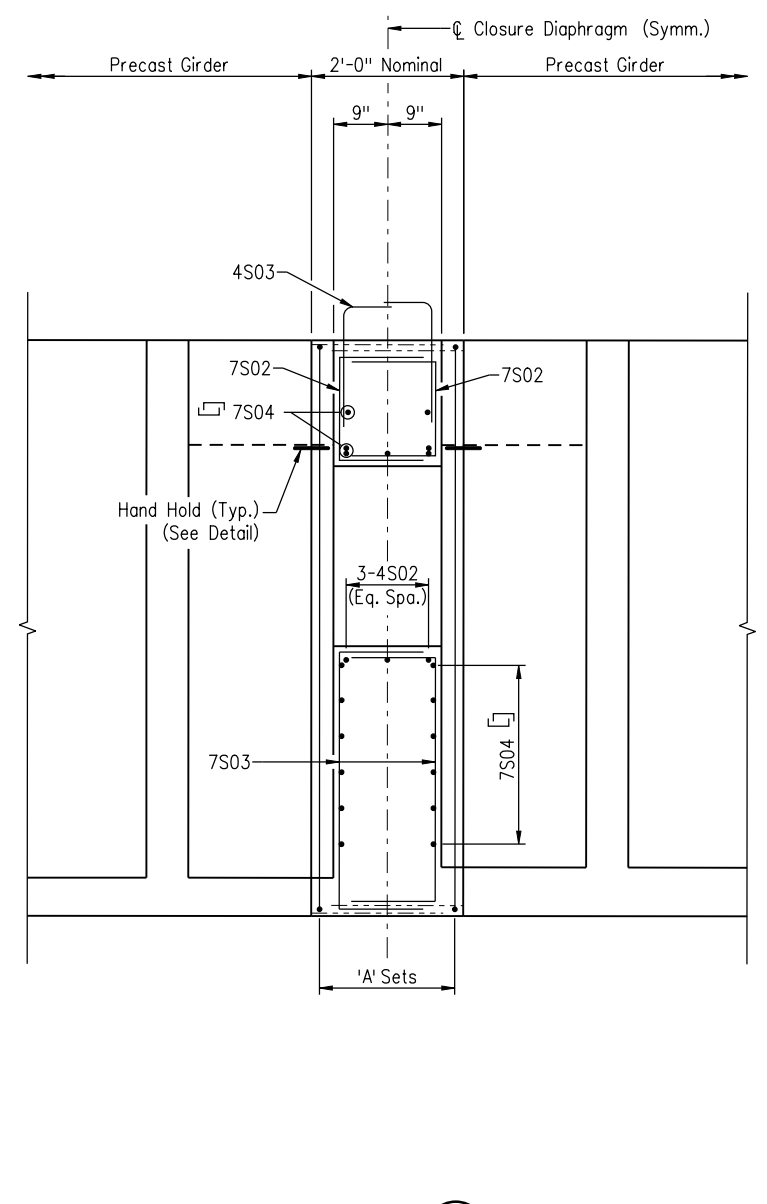
PRELIMINARY - NOT FOR CONSTRUCTION



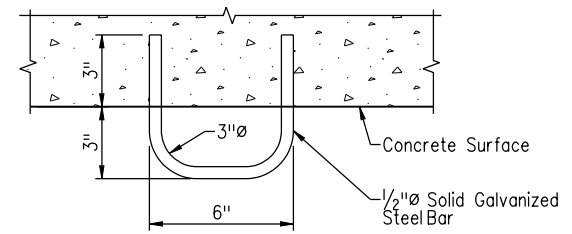
PLAN VIEW
(Typical Closure Diaphragm)



SECTION A



SECTION B



HAND HOLD DETAIL

- NOTES:**
- Closure Concrete is Class S50, f'c = 7250 PSI.
 - Reinforcing in Closure and Projecting from Girder Into Closure Shall be Epoxy Coated.
 - Concrete Cover Shall be 1" Minimum.
 - Pour Extension of Anchor Block Into Diaphragm to Encapsulate Post-Tensioning Anchorage.
 - 1-'A' Set Consists of: 2-4S01, 1-6S01, 1-6S02, 4-6S03, 1-6S04 & 1-6S05.
 - 1 'B' Set Consists of 1-3S01, 1-5S01 & 1-5S02.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_22_Closure_Diaph_Dim_Reinf.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions			
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1/10/2011	Rev. 3 (reissued)	MK	

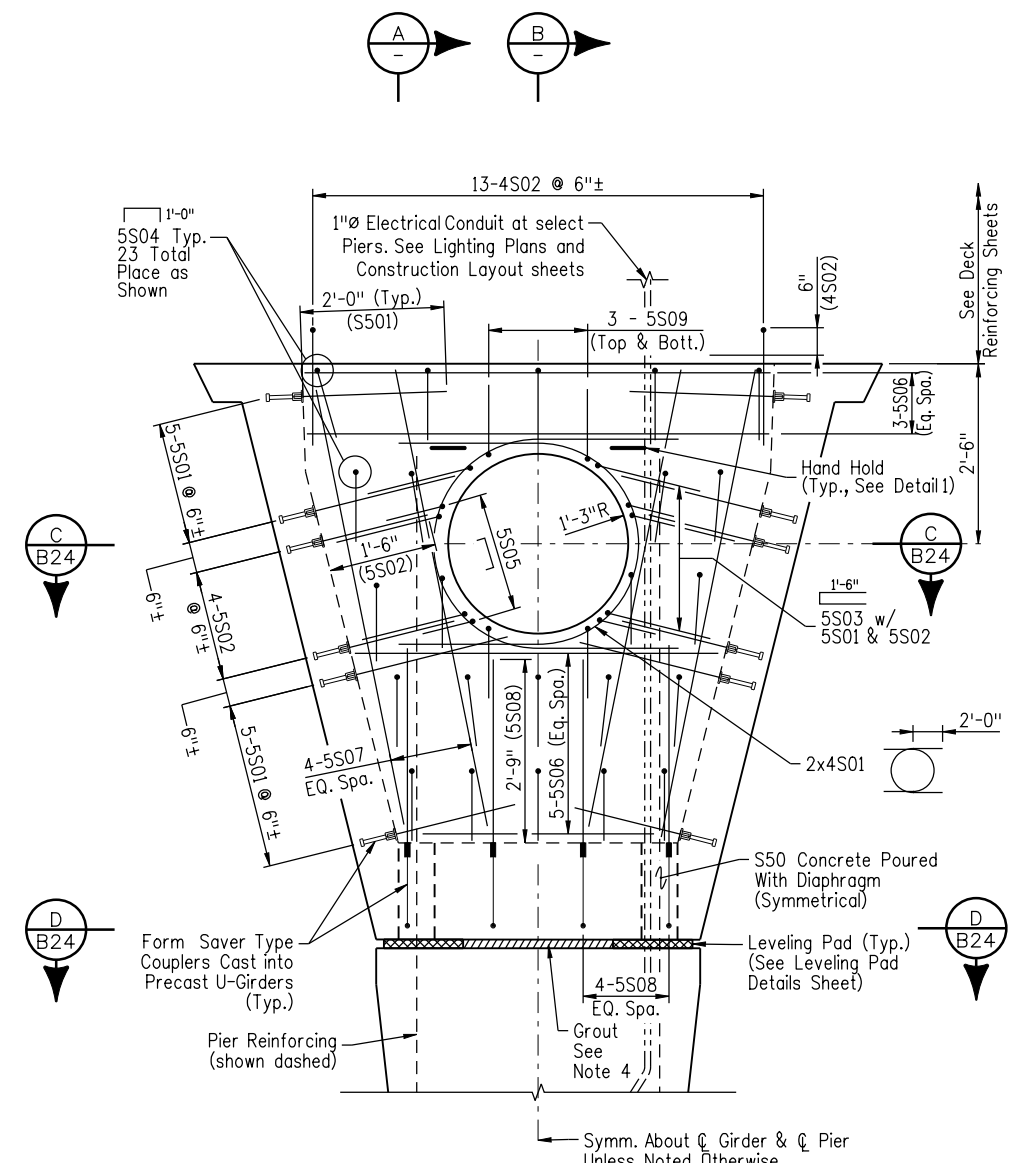
Colorado Department of Transportation

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 Denver, CO 80222
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Region 6 **RLB**

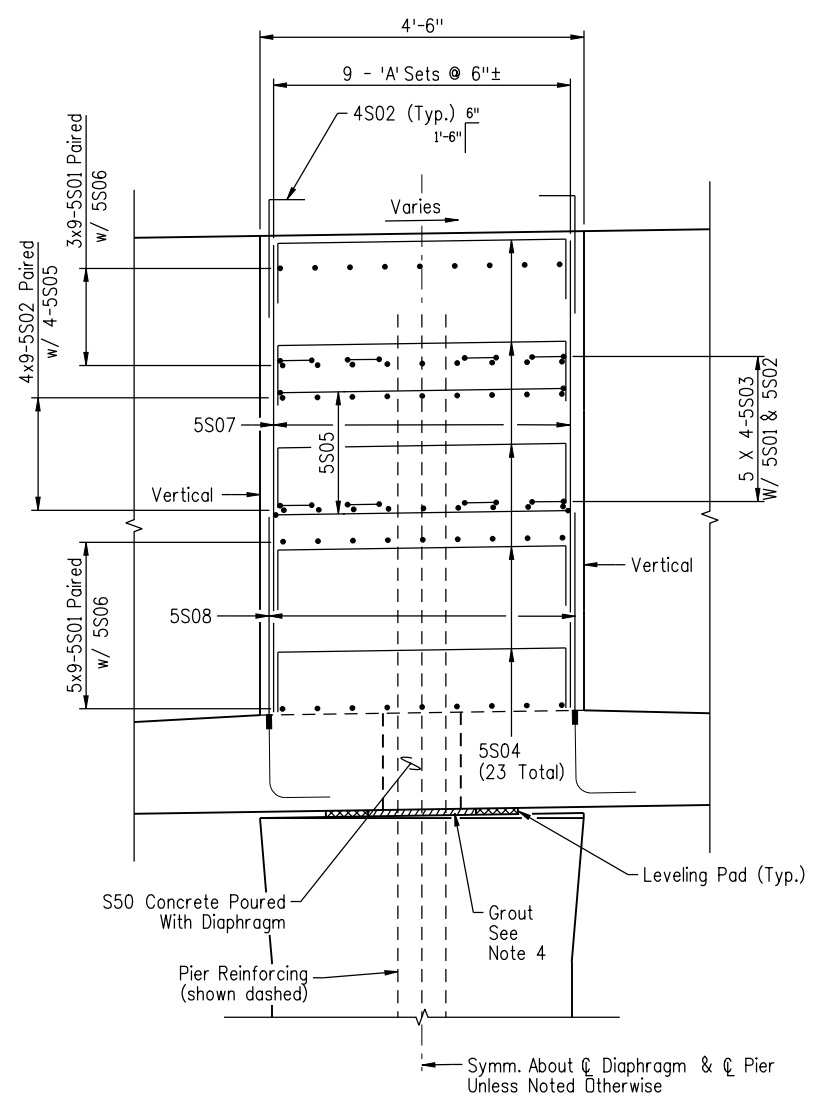
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 Revised:
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I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
CLOSURE DIAPHRAGM DIMS. & REINF.
 Designer: K. Montgomery Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B22 of 57

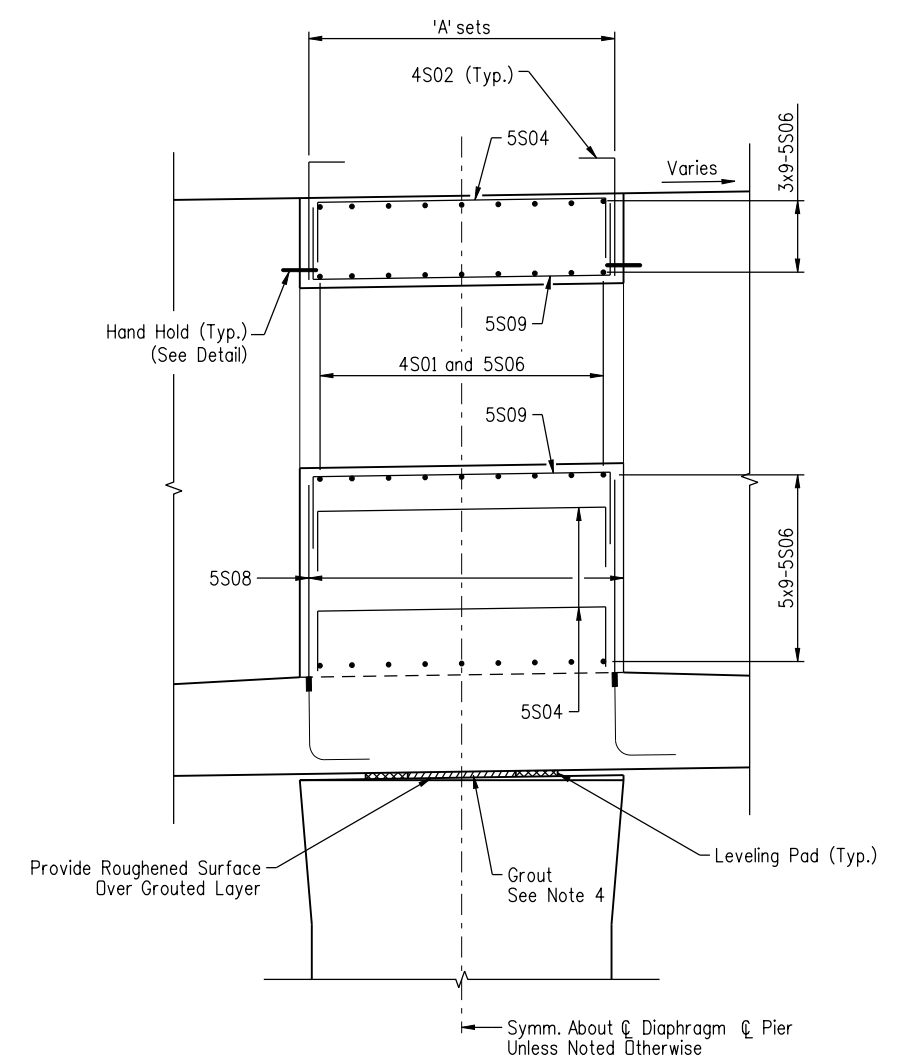
Project No./Code
 BR 0252-407
 17783
 Sheet Number 123 C



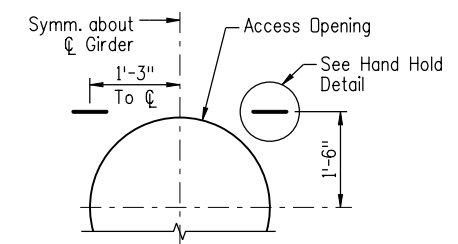
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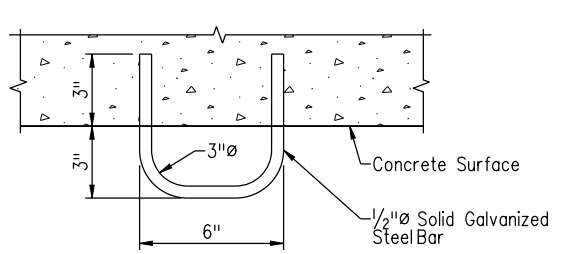
SECTION A-A



SECTION B-B



DETAIL 1



HAND HOLD DETAIL

- NOTES:**
1. Bars 5S01, 5S02 and 5S08 Shall be Threaded and Coupled to Embedded Couplers in Precast U-Girders.
 2. Pier Diaphragm Bars Shall be Epoxy Coated. Concrete Cover is 1/2" Unless Noted Otherwise.
 3. 'A' Set Consists of: 2-4S01, 13-4S02, 20-5S01, 8-5S02, 8-5S06, 8-5S07 and 8-5S08.
 4. For Grouting Information, See Grouting Notes On Pier Diaphragm Dimensions & Reinforcing II Sheet.
 5. Pier Diaphragm Concrete is Class S50.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
12/10	MSK	12/10	SJF	12/10	MSK
12/10	RKM	12/10	MSK	12/10	BTL

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_23_Pier_Diaph_Dim_Reinf1.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

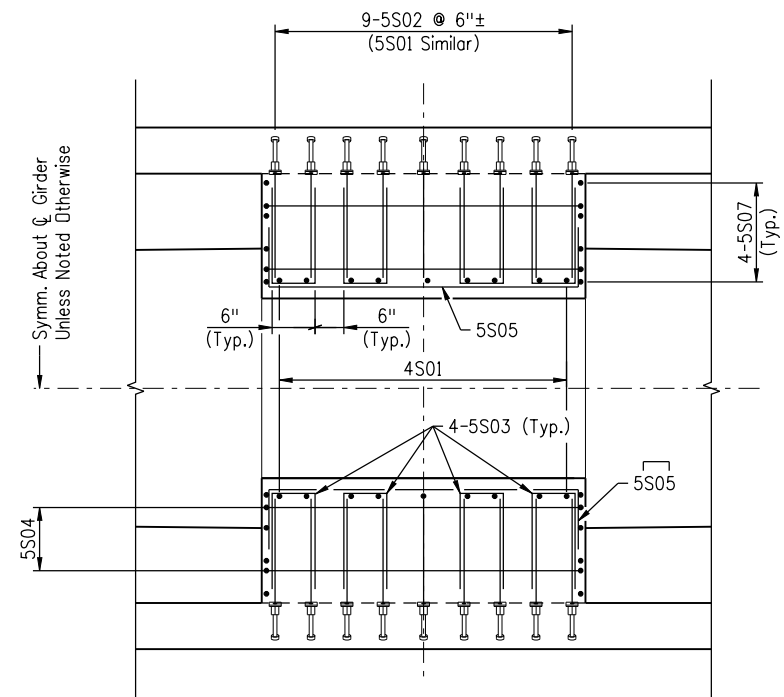
Colorado Department of Transportation

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Region 6 **RLB**

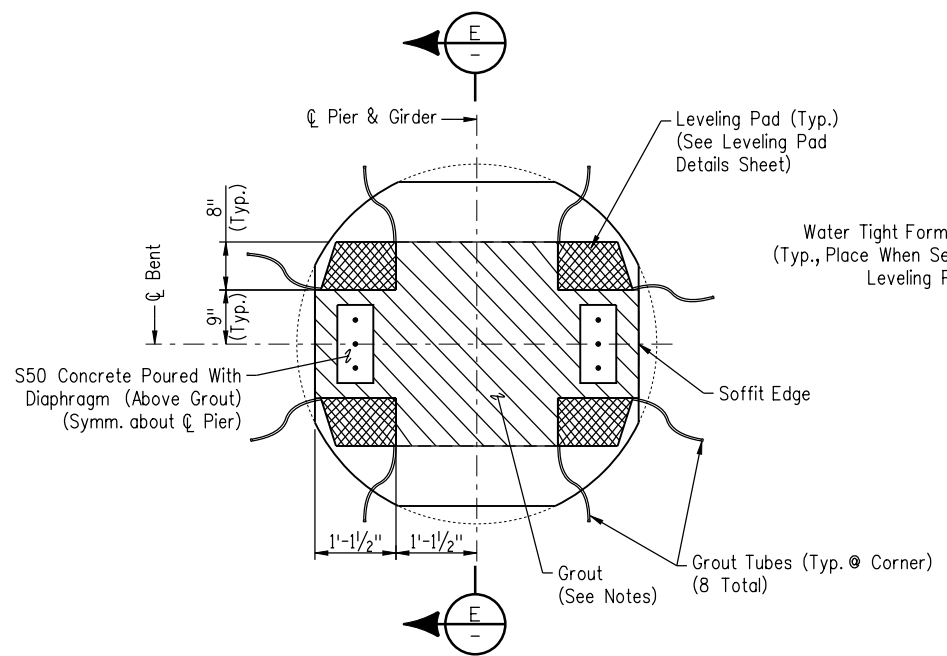
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 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 PIER DIAPHRAGM DIMS. & REINF. I**
 Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B23 of 57

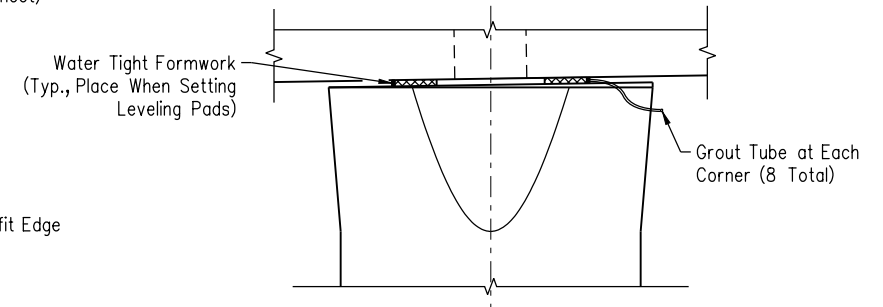
Project No./Code
 BR 0252-407
 17783
 Sheet Number 124 C



SECTION C
B23



SECTION D
B23



SECTION E

- NOTES:**
1. Bars 5S01, 5S02 and 5S08 Shall be Threaded and Coupled to Embedded Couplers in Precast U-Girders.
 2. Pier Diaphragm Bars Shall be Epoxy Coated. Concrete Cover is 1 1/2" Unless Noted Otherwise.
 3. 'A' Set Consists of: 2-4S01, 13-4S02, 20-5S01, 8-5S02, 8-5S06, 8-5S07 and 8-5S08.

- GROUTING NOTES:**
1. Grout Shall be Non-Shrink, Low Bleed Grout With a Minimum Strength of 6000 psi, SikaGrout 300PT or Equivalent. Grout shall be Submitted to the Engineer for Acceptance.
 2. Grout the Area Shown Between Girder and Pier Cap Prior to Reinforcing and Forming Pier Diaphragm. Grout shall Completely Fill the Space Shown Between the Girder and Pier Cap.
 - a. Install "Watertight" Forms Prior to Setting Girder.
 - b. Provide 2 Grout Tubes at Each Corner As Shown (8 Total).
 - c. Pump Grout From Low Corner.
 - d. As Grout Comes Out of Each Tube in Sequence, Shut the Grout Valve After 1/2 Gallon of Grout is Expelled.
 - e. Continue to Pump Until Grout Rises 1" Up Into Hole Through Girder (High Side).
 - f. Shut Inlet Grout Valve.
 3. Wait Until Field Cured Grout Cubes Attain a Minimum Strength of 2500 psi Before Casting Pier Diaphragm.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	MSK	12/10
RKM	12/10	MSK	12/10	BTL	12/10

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_24_Pier_Diaph_Dim_Reinf2.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
12/3/2010	Rev. 1 (reissued)	MK	(R-1)
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

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Region 6 **RLB**

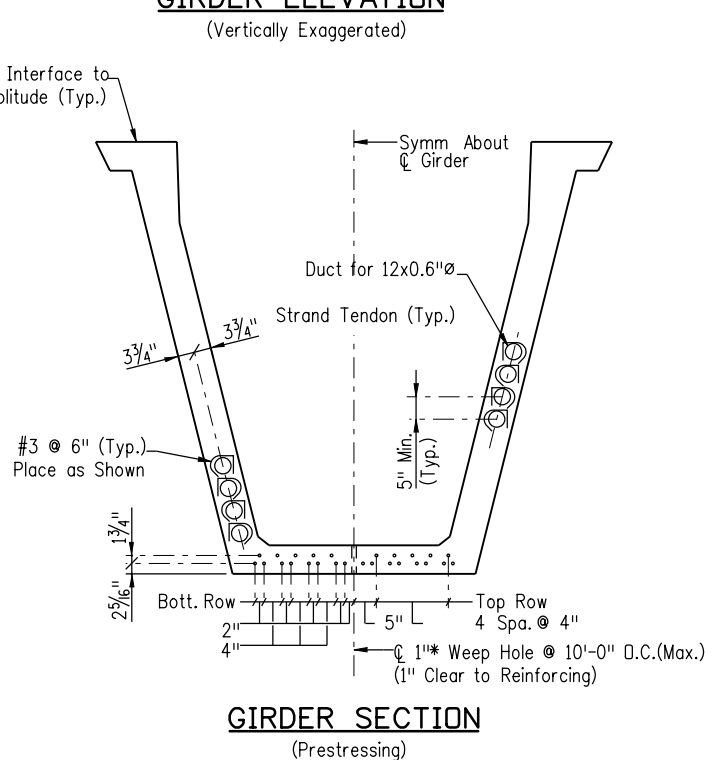
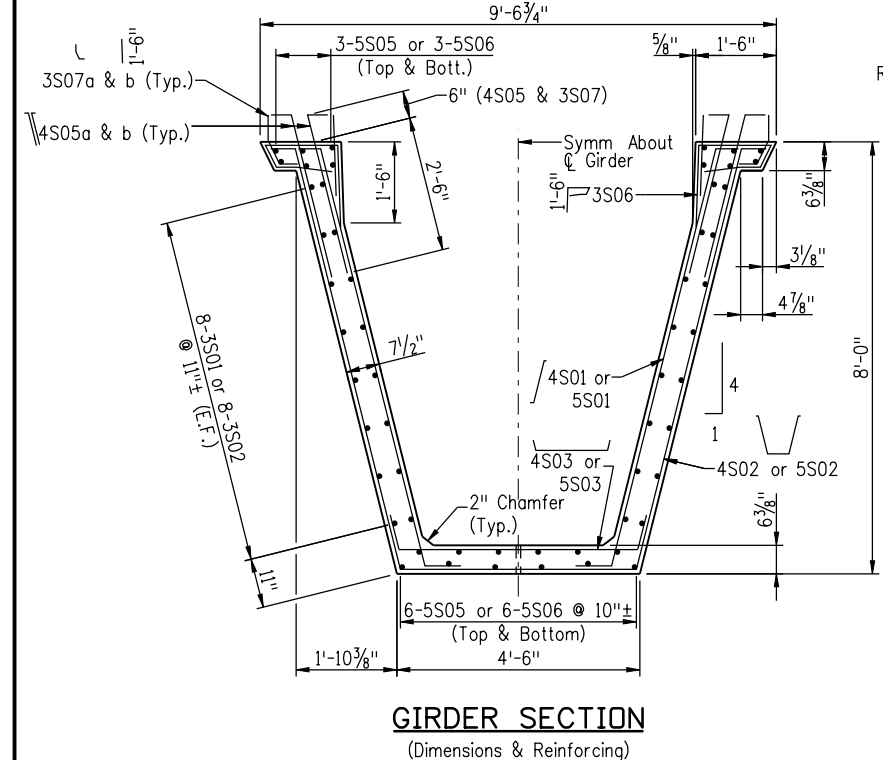
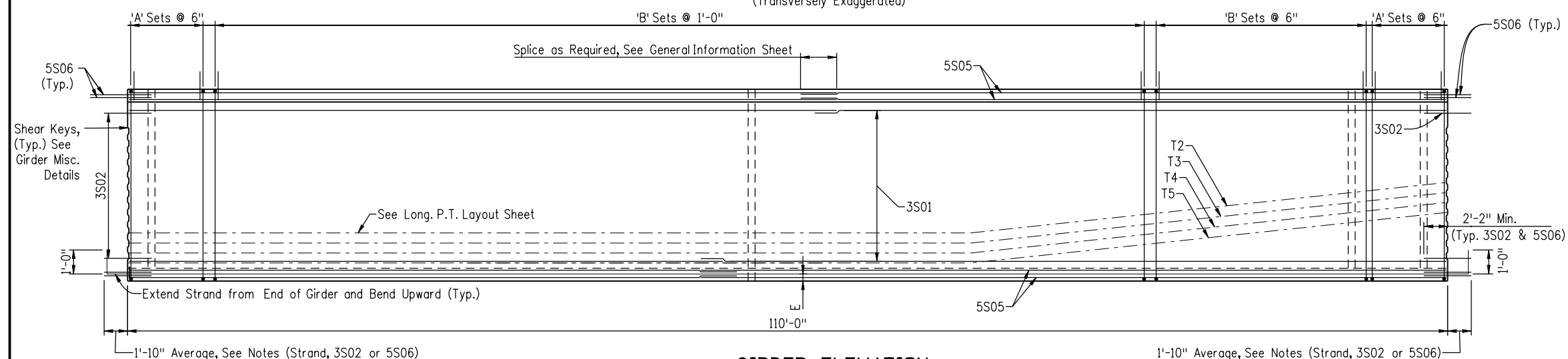
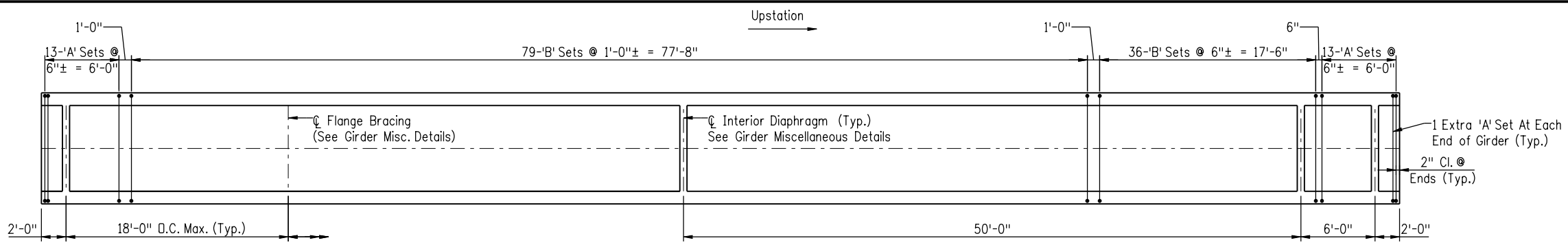
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**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 PIER DIAPHRAGM DIMS. & REINF. II**

Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B24 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 125 C

PRELIMINARY - NOT FOR CONSTRUCTION



GIRDER SCHEDULE								
Girder	A _s *	E	F	F _s	f _{ci}	f _c	Predicted Camber ¹	A _{gx}
A3-H3	5.642	2.99	1142.5	885.2	6.5	9.0	+0.41	0.53

1. Positive = Up

NOTES:
For Detailed Notes See Precast U-Girder 1 Details

Tie Set 'A' Consists of: 2-3S06, 2-3S07a, 2-3S07b, 2-4S05a, 2-4S05b, 2-5S01, 1-5S02, and 1-5S03

Tie Set 'B' Consists of: 2-3S06, 2-3S07a, 2-3S07b, 2-4S01, 1-4S02, 1-4S03, 2-4S05a and 2-4S05b.

Revision Dates (Preliminary Stage Only)			
MM/YY	DATE	INITIAL	DATE

Design				Quantities			
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
12/10	MSK	12/10	SJF	12/10	MSK	12/10	BTL
12/10	RKM	12/10	MSK	12/10	MSK	12/10	BTL

Print Date: 1/7/2011
File Name: 16311FBE_PH2_27_Girder-3-Details.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev. 2 (Reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

Colorado Department of Transportation

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed
No Revisions:
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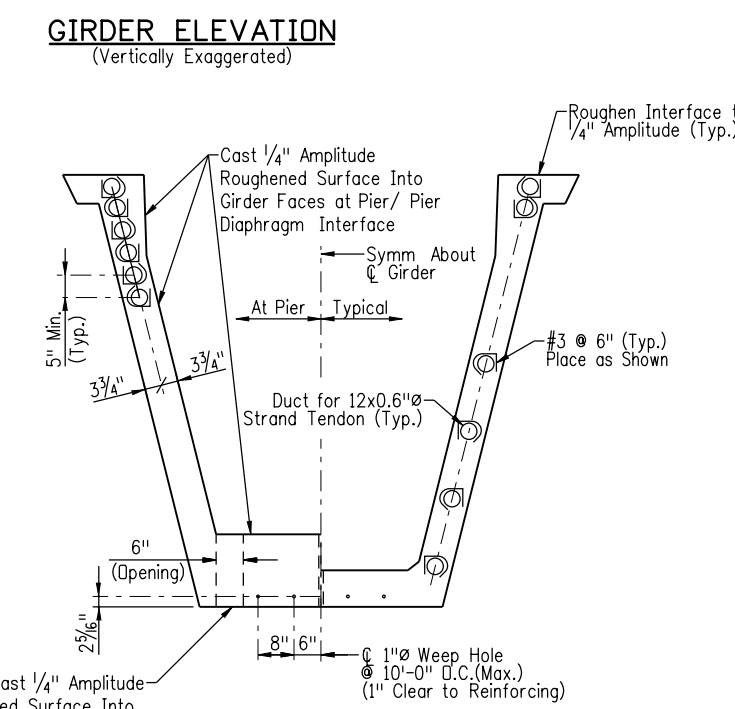
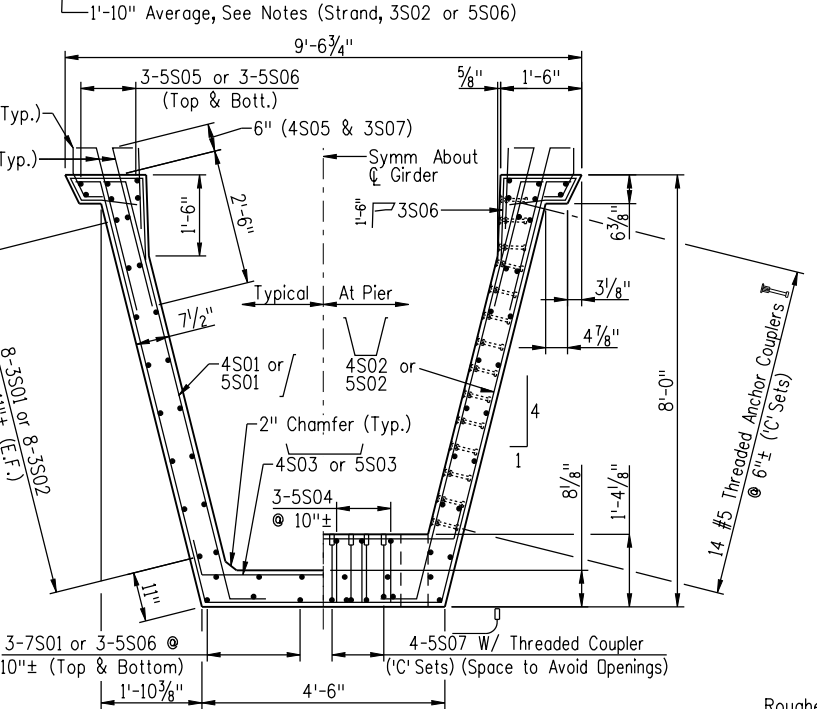
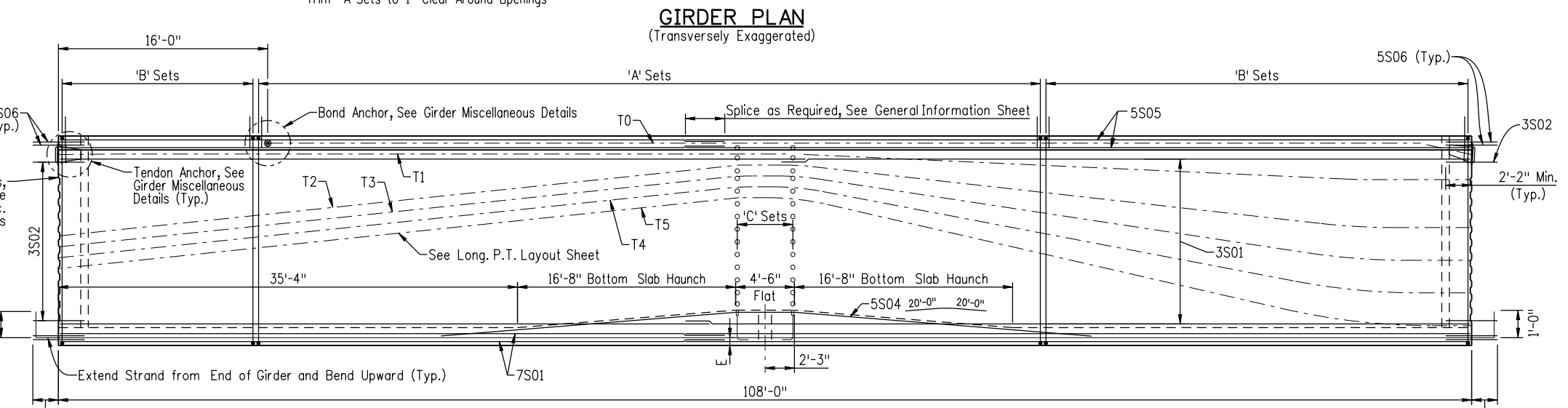
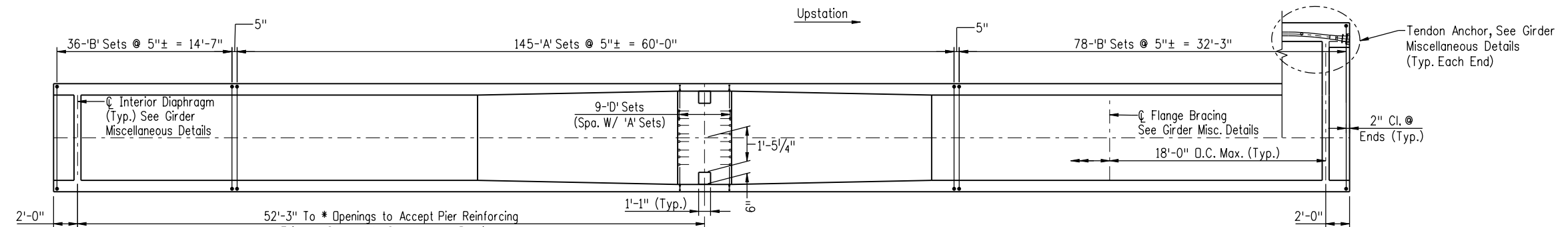
**I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
PRECAST U-GIRDER 3 DETAILS**

Designer: M. Keller Structure: F-16-XS
Detailer: S. Fall Numbers:
Sheet Subset: Bridge Subset Sheets: B27 of 57

Project No./Code
BR 0252-407
17783
Sheet Number 128 C

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PRELIMINARY - NOT FOR CONSTRUCTION



GIRDER SCHEDULE							
Girder	A _s *	E	F	F _s	f' _{ci}	f' _c	Predicted Camber ¹ Δ _{gx}
A4-H4	0.868	2.32	175.8	134.4	6.5	9.0	-0.07

1. At End of Girder. Positive = Up.

NOTES:
For Detailed Notes See Precast U-Girder 1 Details

Tie Set 'A' Consists of: 2-3S06, 2-3S07a, 2-3S07b, 2-4S05a, 2-4S05b, 2-5S01, 1-5S02, and 1-5S03

Tie Set 'B' Consists of: 2-3S06, 2-3S07a, 2-3S07b, 2-4S01, 1-4S02, 1-4S03, 2-4S05a and 2-4S05b

Set 'C' Consists of: 8-5S07 and 28-#5 Threaded Anchor Couplers

Revision Dates (Preliminary Stage Only)			
MM/YY	DATE	INITIAL	DATE

Design				Quantities			
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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12/10	RKM	12/10	MSK	12/10	MSK	12/10	BTL

Print Date: 1/7/2011
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Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials

FIGG
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Sheet Revisions		
Date:	Comments	Init.
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Denver, CO 80222
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Region 6 RLB

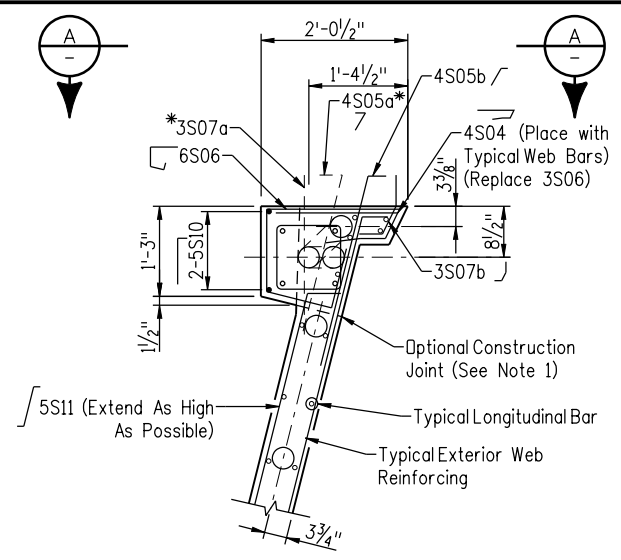
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I-25 OVER SANTA FE
PRECAST U-GIRDER 4 DETAILS**

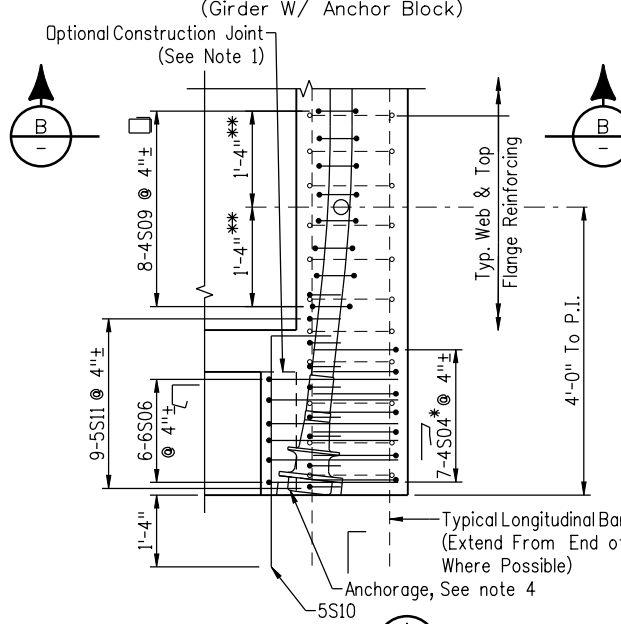
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Detailer: S. Fall
Sheet Subset: Bridge Subset Sheets: B28 of 57

Project No./Code
BR 0252-407
17783
Sheet Number 129 C

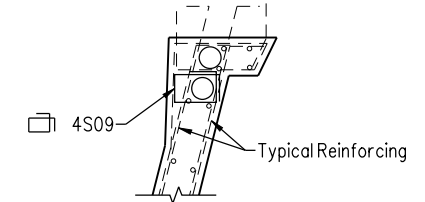
PRELIMINARY - NOT FOR CONSTRUCTION



END VIEW
(Girder w/ Anchor Block)

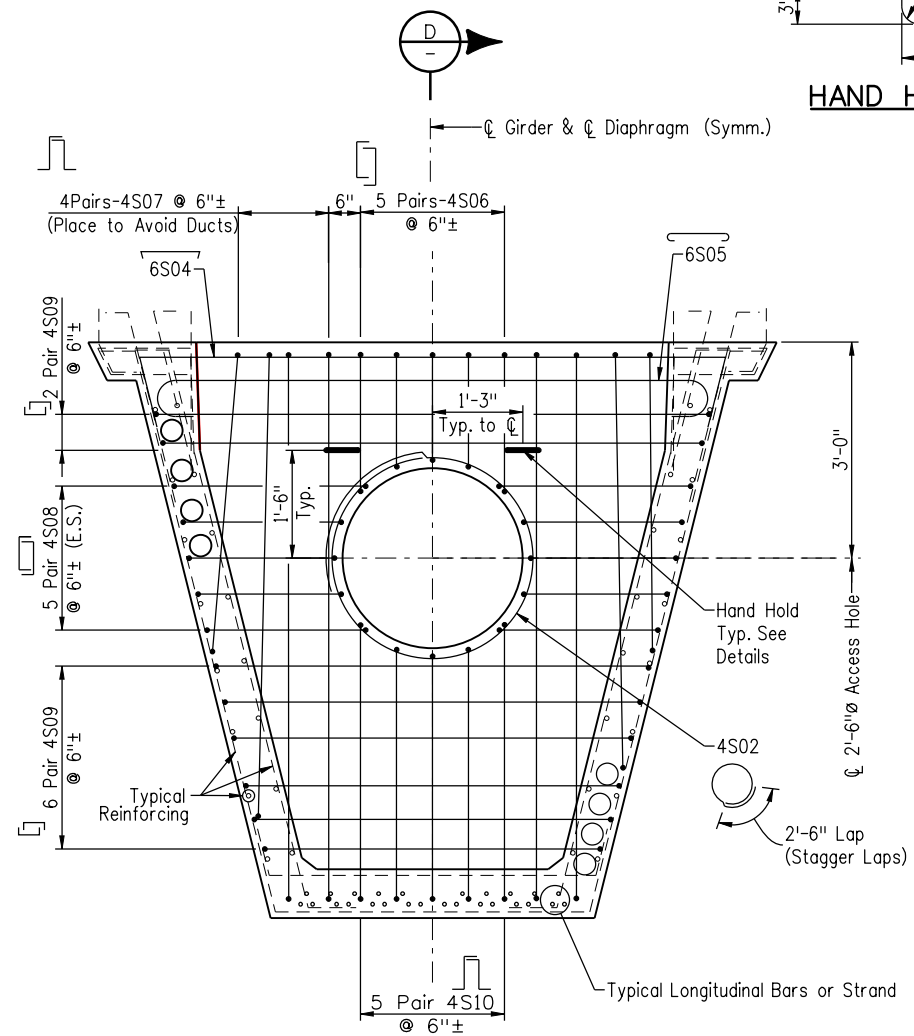


VIEW
(Interior Diaphragm Reinforcing, Not Shown for Clarity)

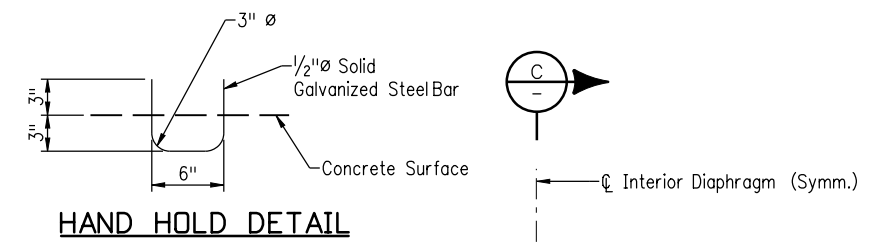


SECTION B
TENDON ANCHOR BLOCK

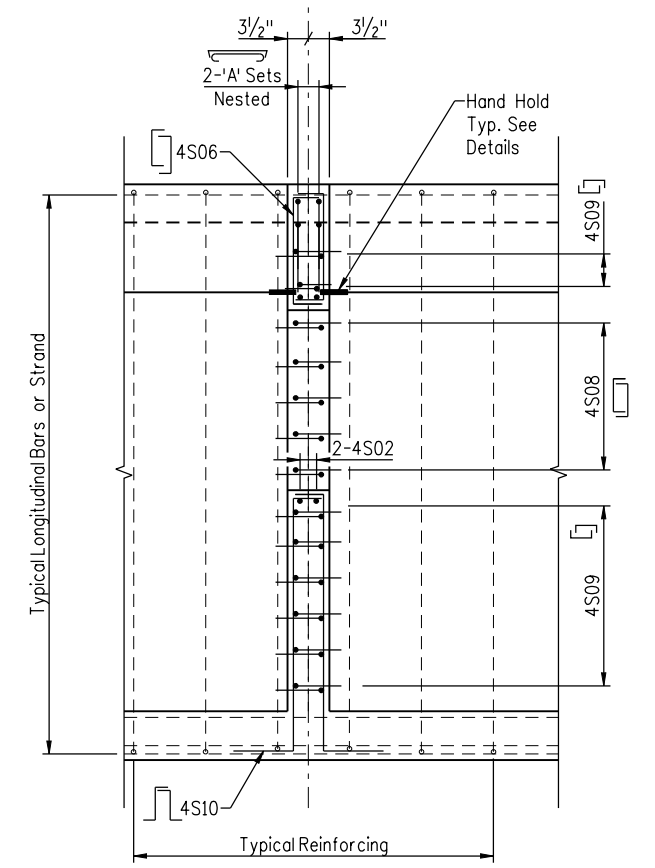
- NOTES:**
- Anchor Block May be Cast with Girder or As a Secondary Pour. If a Secondary Pour is Utilized, Reinforcing Shall Cross Construction Joint as Shown.
 - Leave out 3S07a and 4S05a Where they Conflict with the Anchor.
 - Limit Duct Bend to This Length. Duct Bend Radius = 16'-0".
 - Post-Tensioning Anchorages Shall be Metallic. Anchorages Shall be Multi-Plane DSI "MA", VSL "EC" or Engineer Accepted Equivalent.



SECTION C
GIRDER INTERIOR DIAPHRAGM



HAND HOLD DETAIL



SECTION D

- NOTES:**
- Concrete is Class S50, f'c = 7250 PSI.
 - Use Stirrup Hooks on all #4 Bars.
 - Concrete Cover Shall be 1" Minimum. Reinforcement is Non-Epoxy Coated.
 - 1-A' Set Consists of: 1-6S04 & 1-6S05.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL

Print Date: 1/7/2011
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FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

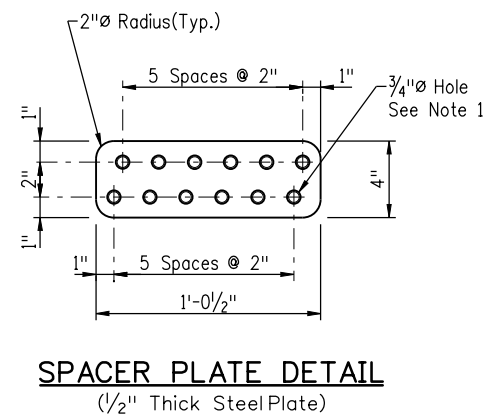
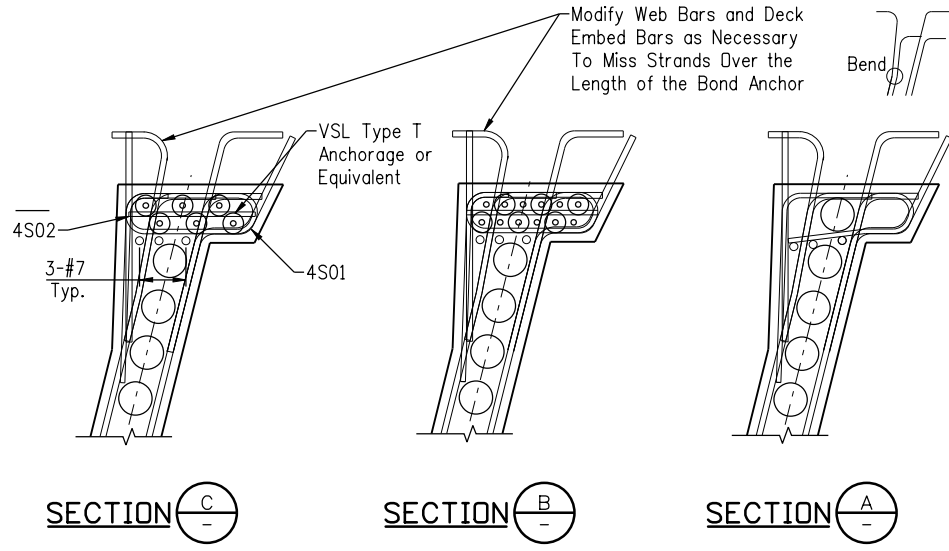
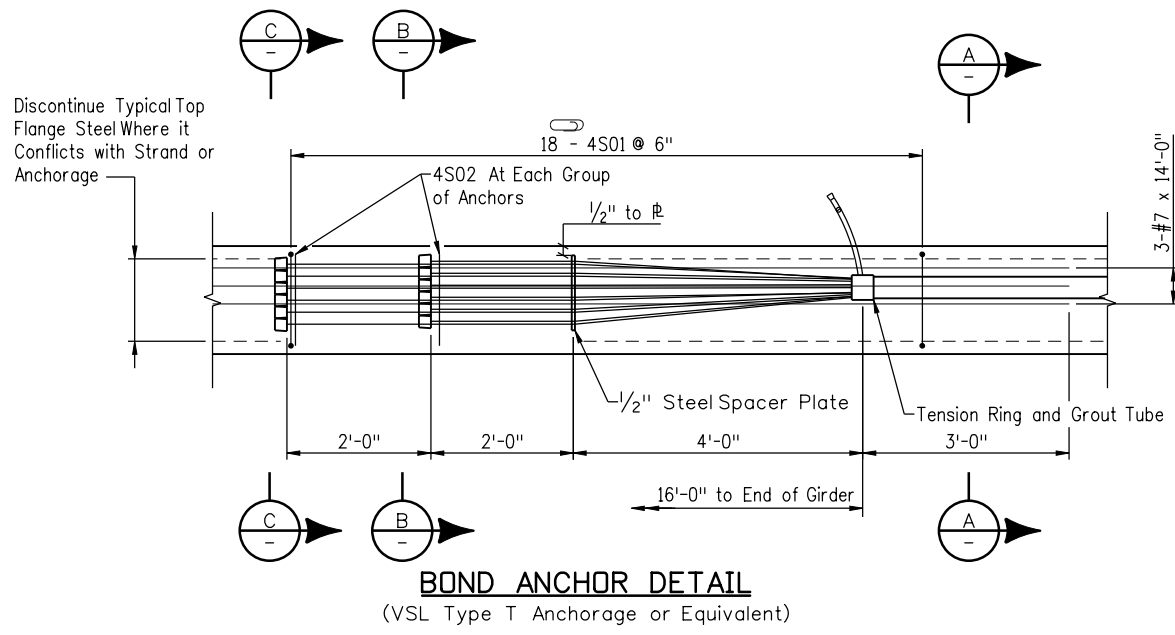
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1/10/2011	Rev. 3 (reissued)	MK

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Region 6 **RLB**

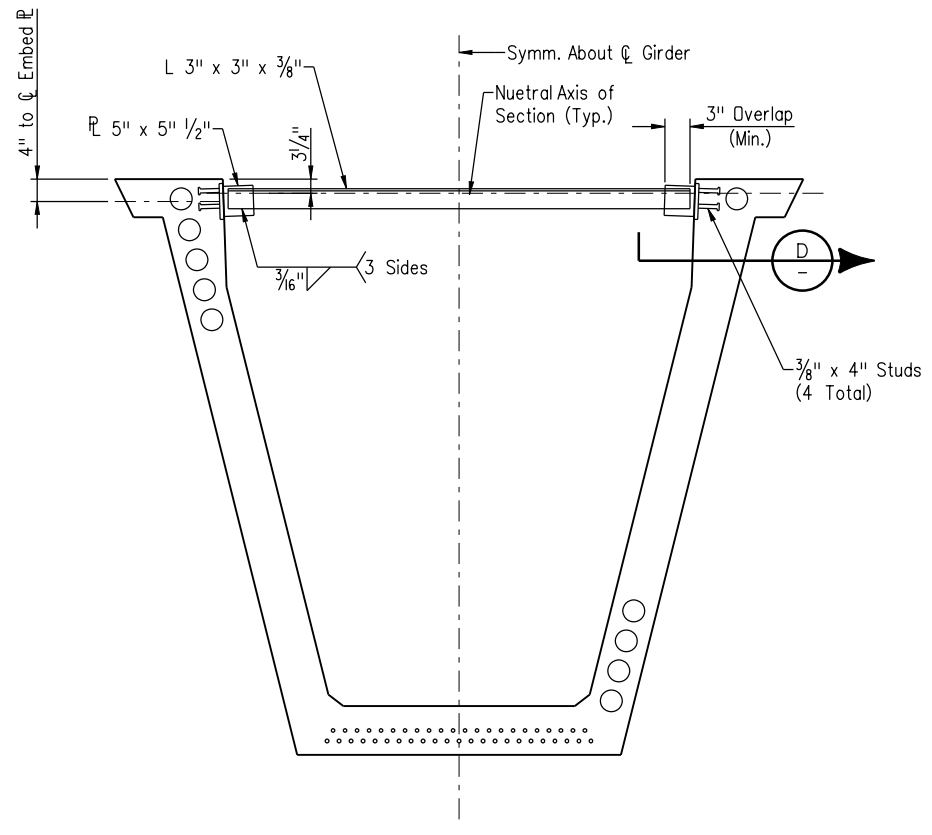
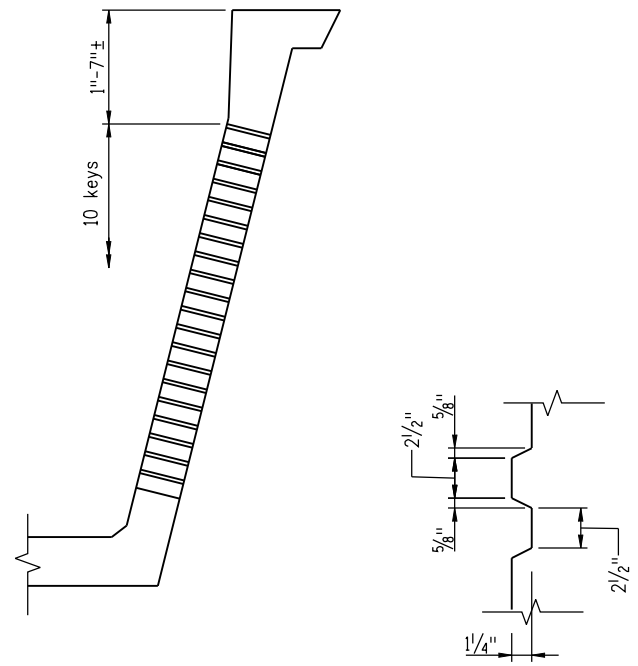
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 Revised:
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I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
GIRDER MISCELLANEOUS DETAILS I
 Designer: M. Keller Structure: F-16-XS
 Detailer: S. Fall Numbers:
 Sheet Subset: Bridge Subset Sheets: B30 of 57

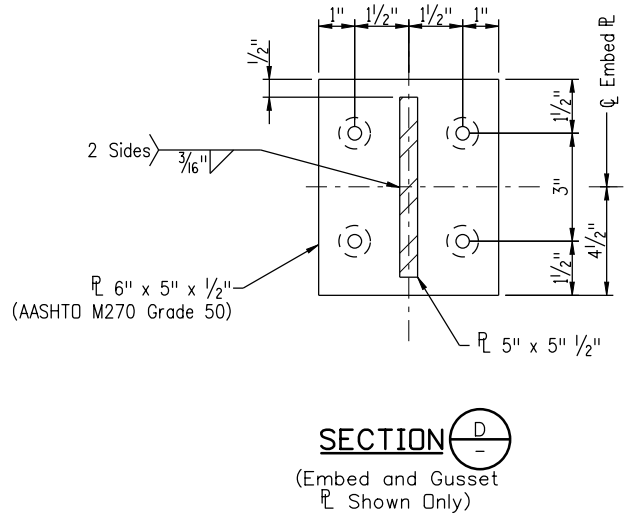
Project No./Code
 BR 0252-407
 17783
 Sheet Number 131 C



- NOTES:
- Holes Shall be Reamed Out and Deburred to Ensure that Strands Do Not Contact a Sharp Edge. Do not Torch cut.



- NOTES:
- Place Bracing at 18'-0" Max Between concrete Diaphragms.
 - All Structural Steel and Plate Shall be AASTHD M 270, Grade 36 Unless otherwise Noted. AASTHD M270, Grade 50 Steel may be Substituted.
 - All Bracing Shown to be Installed and Fully Welded Prior to Erecting Girders.
 - After Installation, all Exposed Steel Surfaces Shall be Coated with two Coats of a Zinc Rich Paint.
 - The Bracing Shown is not intended for Lifting Girders. Contractor is Responsible for Determining Lifting Methods and Associated Details.
 - The Contractor is Responsible for Stability of the Girder and Girder Stresses During Casting, Storage, Transportation, Erection, and until Construction is Complete.
 - The Cost of all Structural Steel Associated with the Girder Bracing is Incidental to the Cost of the Girders.



Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	N/A	N/A
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
RKM	12/10	MSK	12/10	N/A	N/A

Revision Dates		Preliminary Stage Only	
MM/YY		MM/YY	

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 DENVER CO, 80222

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Date:	Comments	Init.	
1/3/2011	Rev 2 (Reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
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 Region 6 RLB

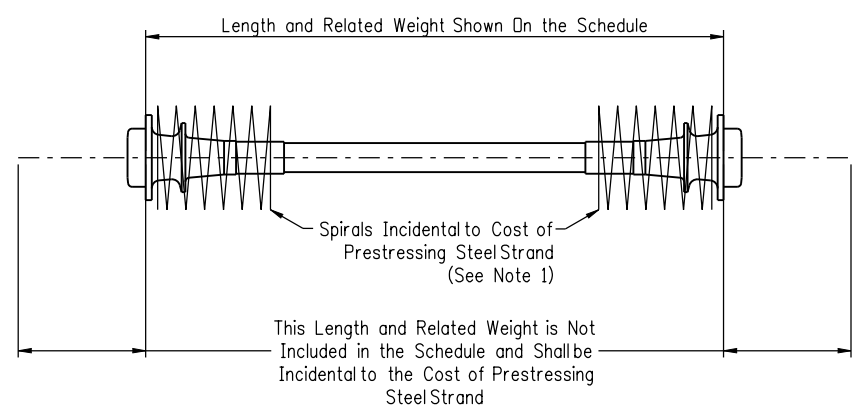
As Constructed
 No Revisions:
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I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
GIRDER MISCELLANEOUS DETAILS II
 Designer: M. Keller Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B31 of 57

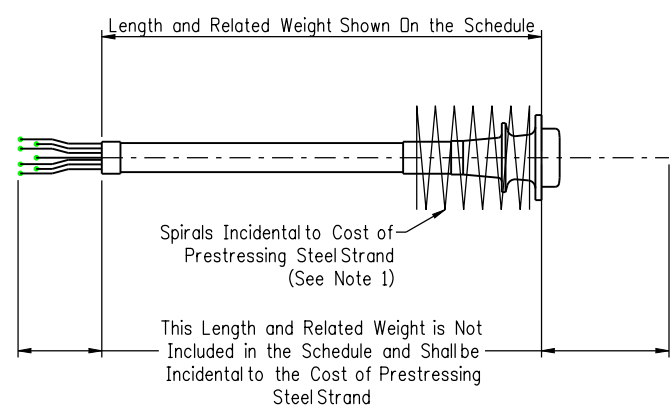
Project No./Code
 BR 0252-407
 17783
 Sheet Number 132 C

POST-TENSIONING QUANTITIES AND STRESSING SCHEDULE													
NB							SB						
Tendon	Girder Line	Length [ft] ²	Tendon Weight [lbs] ²	Total Weight [lbs]	Stressing Force [kip]	Stressing End ⁴	Tendon	Girder Line	Length [ft] ²	Tendon Weight [lbs] ²	Total Weight [lbs]	Stressing Force [kip]	Stressing End ⁴
T0 ³	A	184.0	1634	3268	527	U.S.	T0 ³	E	184.0	1634	3268	527	U.S.
	B	184.0	1634	3268	527	U.S.		F	184.0	1634	3268	527	U.S.
	C	184.0	1634	3268	527	U.S.		G	184.0	1634	3268	527	U.S.
	D	184.0	1634	3268	527	U.S.		H	184.0	1634	3268	527	U.S.
T1	A	207.7	1844	3689	527	D.S.	T1	E	208.0	1847	3694	527	D.S.
	B	207.9	1847	3693	527	D.S.		F	207.8	1846	3691	527	D.S.
	C	208.1	1848	3695	527	D.S.		G	207.7	1844	3689	527	D.S.
	D	208.1	1848	3696	527	D.S.		H	207.6	1843	3686	527	D.S.
T2	A	430.3	3821	7642	527	B	T2	E	430.7	3825	7649	527	B
	B	430.5	3823	7646	527	B		F	430.6	3824	7648	527	B
	C	430.6	3824	7648	527	B		G	430.5	3822	7645	527	B
	D	430.7	3825	7649	527	B		H	430.2	3820	7641	527	B
T3	A	547.1	4858	9716	527	B	T3	E	547.3	4860	9721	527	B
	B	547.2	4859	9718	527	B		F	547.3	4860	9720	527	B
	C	547.3	4860	9720	527	B		G	547.2	4859	9718	527	B
	D	547.3	4860	9721	527	B		H	547.0	4858	9716	527	B
T4	A	547.1	4858	9716	527	B	T4	E	547.3	4860	9721	527	B
	B	547.2	4859	9718	527	B		F	547.3	4860	9720	527	B
	C	547.3	4860	9720	527	B		G	547.2	4859	9718	527	B
	D	547.3	4860	9721	527	B		H	547.0	4858	9716	527	B
T5	A	547.1	4858	9716	527	B	T5	E	547.3	4860	9721	527	B
	B	547.2	4859	9718	527	B		F	547.3	4860	9720	527	B
	C	547.3	4860	9720	527	B		G	547.2	4859	9718	527	B
	D	547.3	4860	9721	527	B		H	547.0	4858	9716	527	B

- SCHEDULE NOTES:
- All Tendons are 12- 0.6"Ø Strand Tendons.
 - The Length and Weight Listed are Average Values For the Left and Right Girder Web Lines.
 - The Values Listed for the T0 Tendon Are the Totals for the T0 Tendons in Girders 2 and 4.
 - D.S. = Downstation End, U.S. = Upstation End, B = Both Ends
 - The Quantities Listed Above Include Post-Tensioning Only. Pretensioning is Included in the Cost of Precast Concrete Girder (Precast and Post-Tensioned)



TENDONS T1 - T5



TENDONS T0

- NOTES:
- Local Zone Reinforcing at Anchorages Is the Responsibility of the Post-Tensioning System Supplier. Local Zone Reinforcing in Abutments Shall be Epoxy Coated. Local Zone Reinforcing in Precast Girders Shall be Non-Epoxy Coated.
 - Maximum Spiral Diameter Shall be 13".

Print Date: 1/7/2011	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE P.T. QUANT. & STRESSING SCHEDULE			Project No./Code BR 0252-407 17783 Sheet Number 134 C
File Name: 16311FBE_PH2_33_PT_Quant.dgn	Date:	Comments	Init.			Designer: M. Keller	Structure Numbers	F-16-XS	
Horiz. Scale: Vert. Scale: As Noted	1/3/2011	Rev 2 (Reissued)	MK			Detailer: S. Fall	Subset Sheets:	B33 of 57	
Unit Information Unit Leader Initials	1/10/2011	Rev. 3 (reissued)	MK	Sheet Subset: Bridge					
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222				 Region 6					

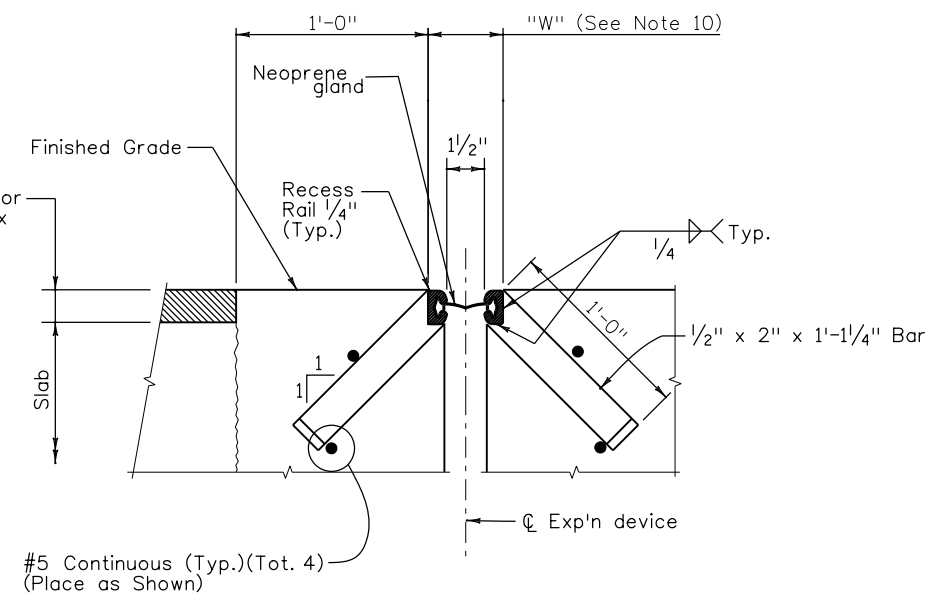
PRELIMINARY - NOT FOR CONSTRUCTION

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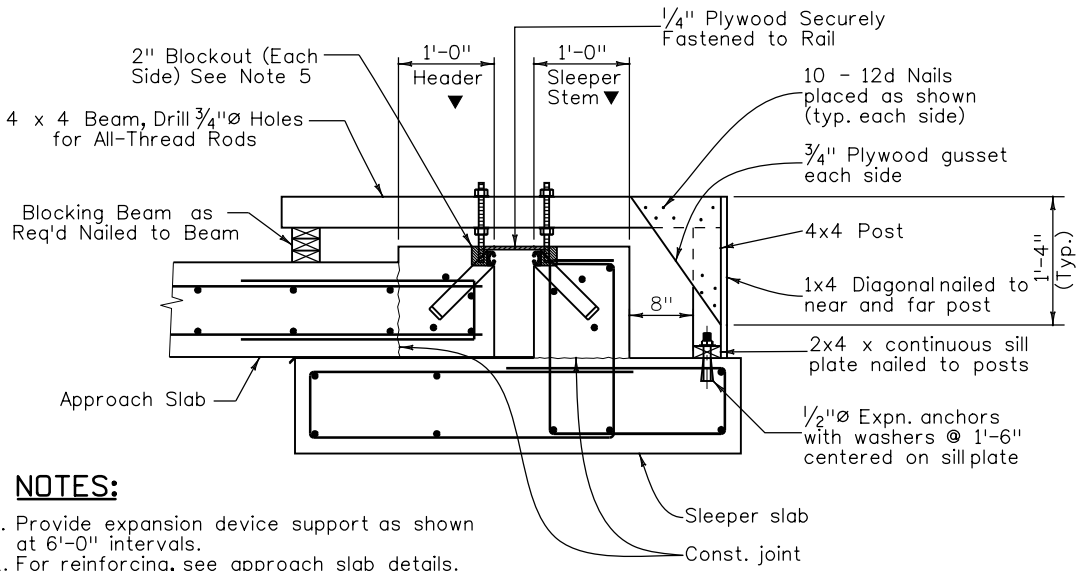
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MM/YY	

Quantities	
INITIAL	DATE
MSK	12/10
BTL	12/10

Design	
INITIAL	DATE
MSK	12/10
RKM	12/10

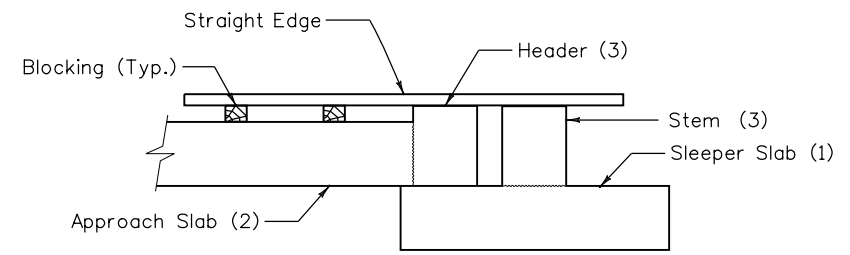


SECTION THRU STRIP SEAL BRIDGE EXPANSION DEVICE
Section taken perpendicular to \perp exp'n device

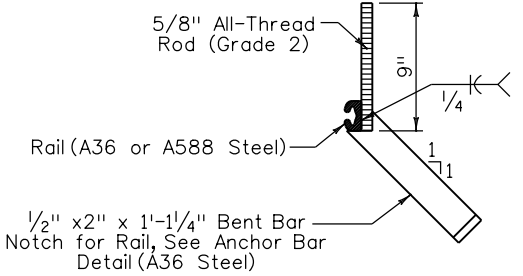


- NOTES:**
1. Provide expansion device support as shown at 6'-0" intervals.
 2. For reinforcing, see approach slab details.
- ▼ Concrete shall be placed after expansion device has been adjusted to proper grade and approved by the engineer using the Grade Projection Scheme.

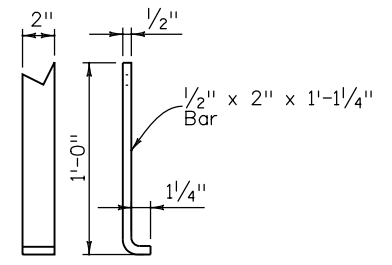
- NOTES:**
1. These drawings are a schematic of the required expansion joint devices and cover plates. Manufacturer is responsible for the design of the devices. Shop drawings shall be submitted to the Engineer for review.
 2. The expansion joint devices shall be installed on grade, accounting for skew and superelevation and provide a smooth riding surface. Edge beams and the top of the forms that establish the grades for the header and stem shall be surveyed to verify that the final installed joints will conform to plan elevations and grades. Elevations shall be submitted to the Engineer for acceptance prior to pouring the header and stem.
 3. Concrete for the secondary pours surrounding the expansion joint devices shall be Class D (4500 psi). Concrete cover is 2" U.N.D. Reinforcing is epoxy coated.
 4. An accepted latex bonding agent shall be used in strict accordance with manufacturer recommendations on all mating surfaces of construction joints.
 5. After the concrete has attained initial set, the attachments used to hold the expansion device in its proper position shall be removed. After concrete is cured, remove the all-thread supports to 2" clear and patch back the blockouts with an accepted epoxy grout.
 6. All exposed steel shall be galvanized. The galvanization of any field splices shall be repaired in accordance with ASTM A780.
 7. Installation of the expansion joints shall be the last possible operation prior to opening the bridge to traffic. The structure temperature measured at the mid height of the web in the shade shall be 60 degrees F or less when the joints are installed. Do not drill holes in the deck to measure the structure temperature.
 8. The neoprene gland shall be installed in one piece in accordance with section 518 of the Standard Specifications.
 9. See section 518 in the standard specifications for water tight integrity testing requirements.
 10. "W" dimension is dependent upon the particular expansion device supplied and shall be shown in the shop drawings.



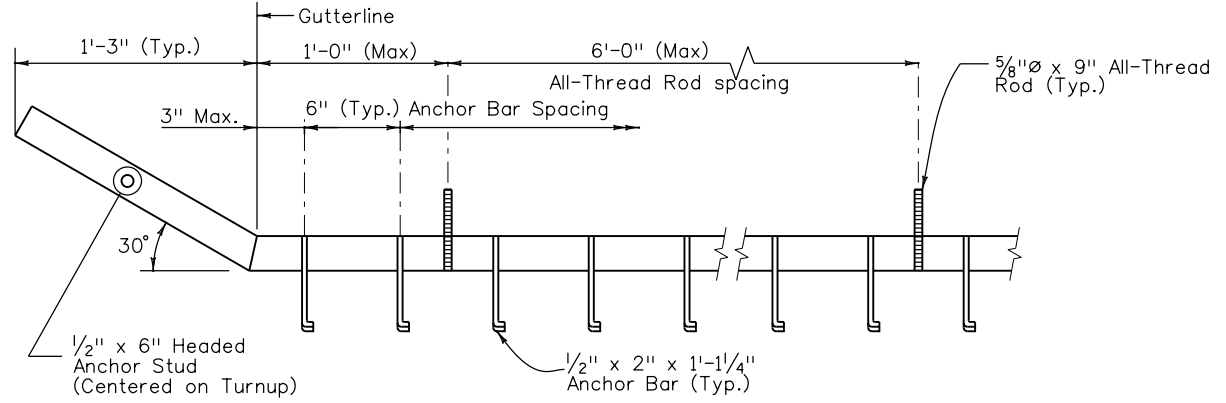
GRADE PROJECTION SCHEME
(Numbers in parenthesis refer to first, second and third concrete pours)



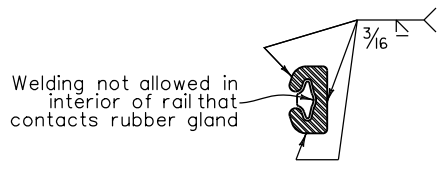
ANCHORAGE DETAIL



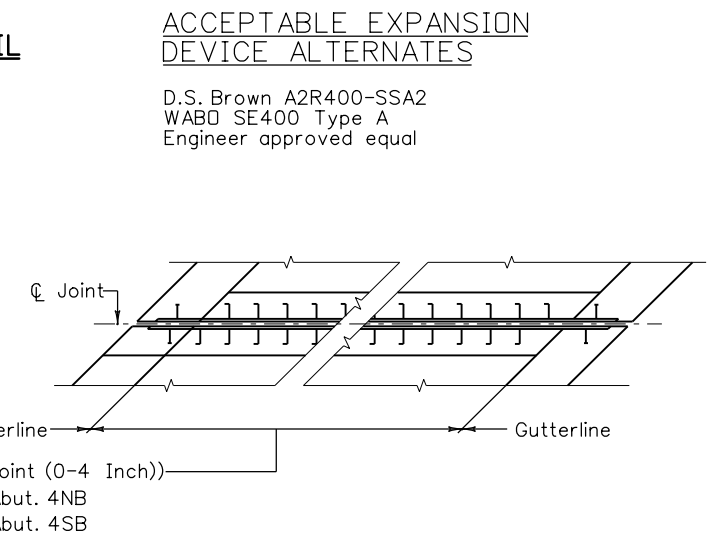
TYPICAL ANCHOR BAR DETAIL



EDGE RAIL DETAILS



RAIL FIELD SPLICE DETAIL
(See Note 6)



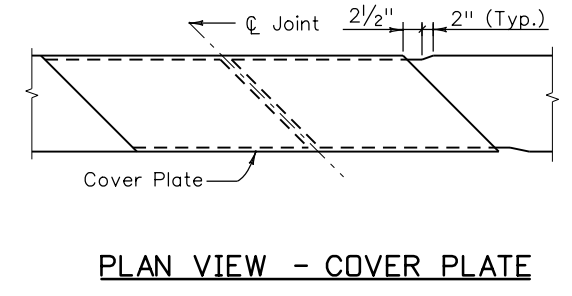
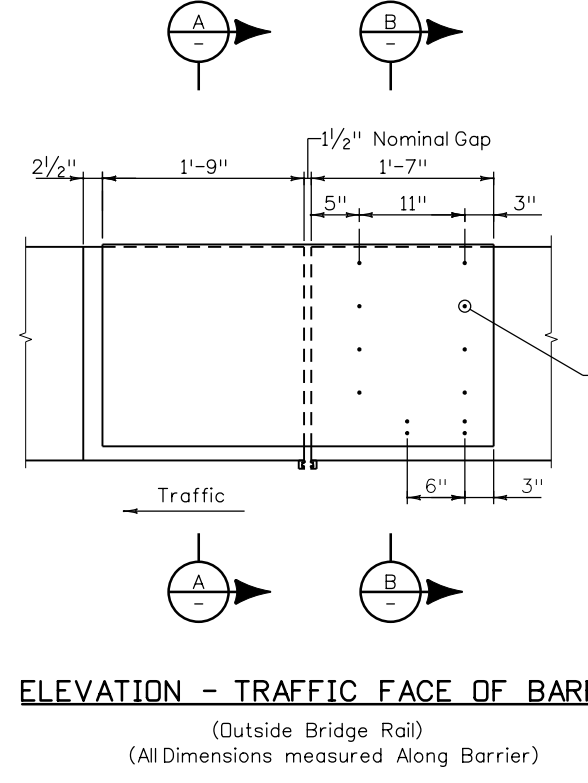
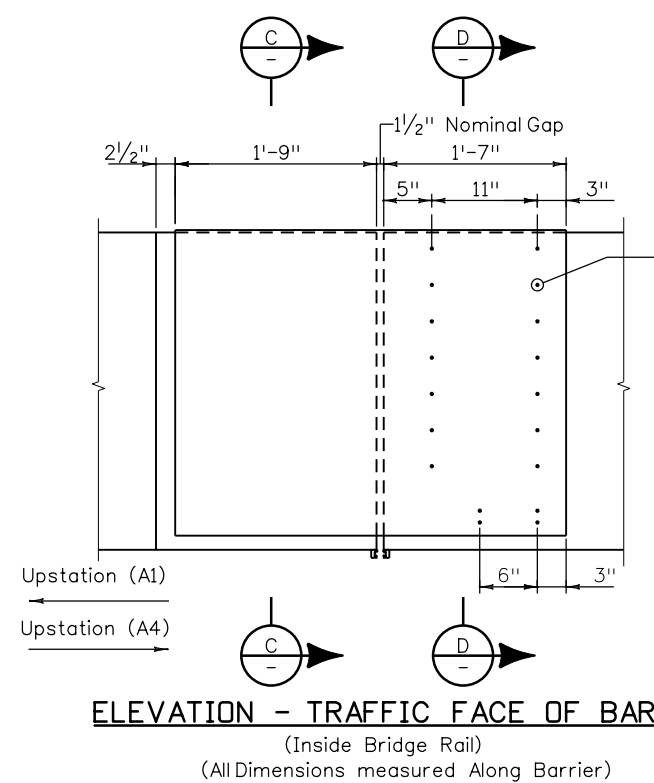
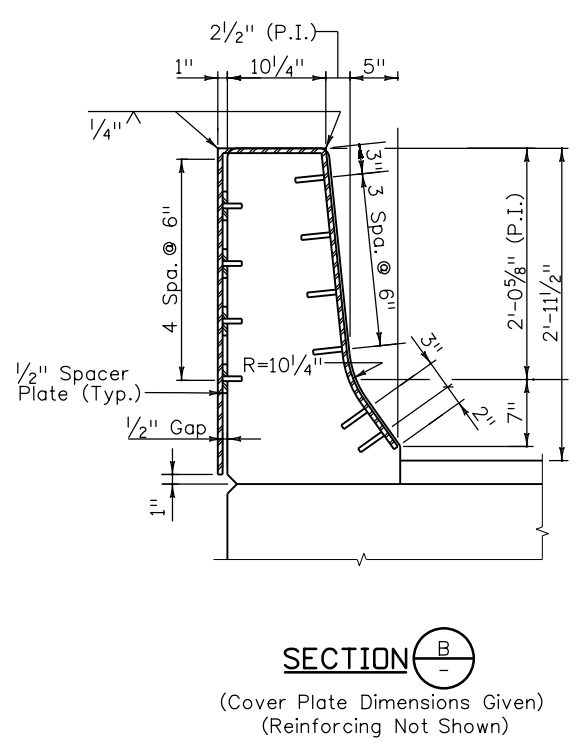
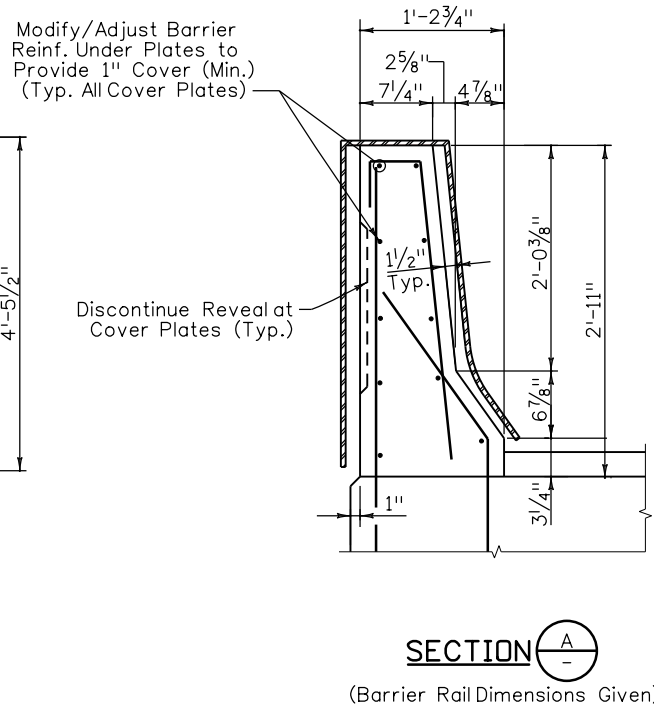
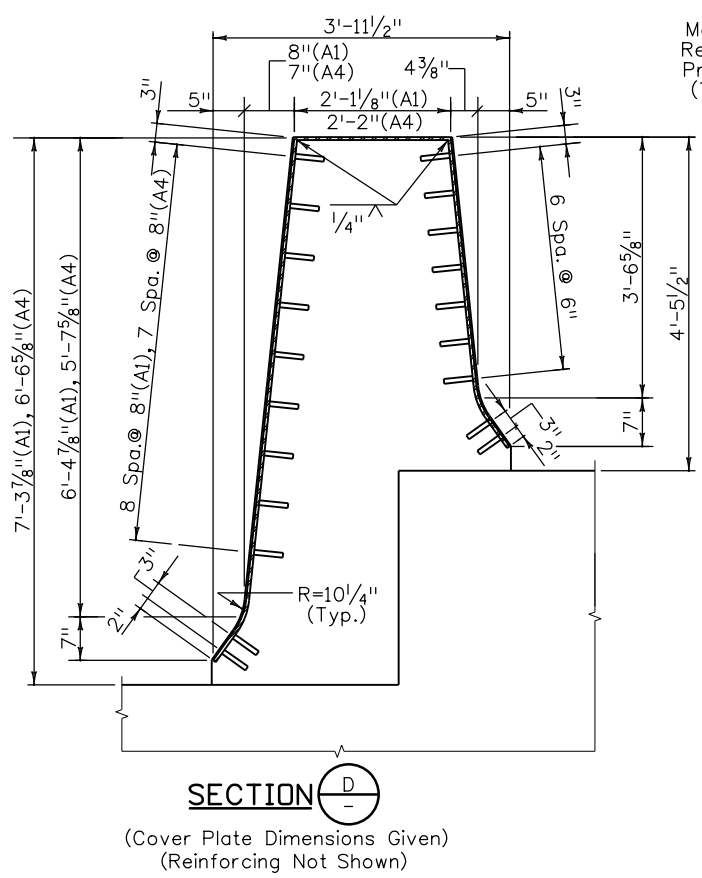
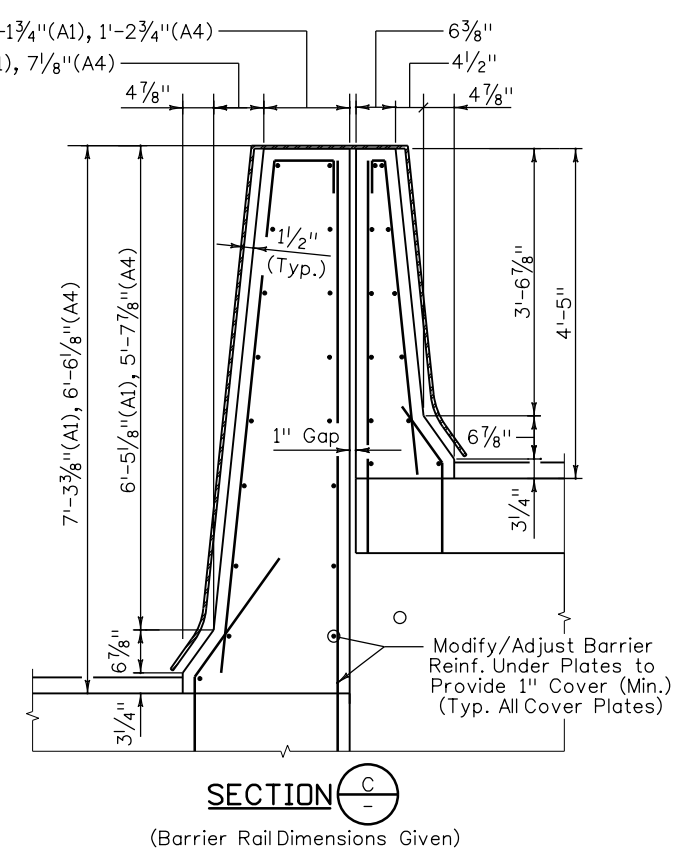
PLAN - EXPANSION JOINT

Print Date: 1/7/2011	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code	
File Name: 16311FBE_PH2_35_Exp_Joint_Det1.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		I-25 OVER SANTA FE		BR 0252-407	
Horiz. Scale: Vert. Scale: As Noted	1/3/2011	Rev 2 (Reissued)	MK					EXPANSION JOINT DETAILS I		17783	
Unit Information Unit Leader Initials	1/10/2011	Rev 3 (Reissued)	MK	Region 6 RLB		Revised:		Designer: M. Keller	Structure Numbers: F-16-XS	Sheet Number 136 C	
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222								Void:			

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1/7/2011

Revision Dates (Preliminary Stage Only)	
MM/YY	

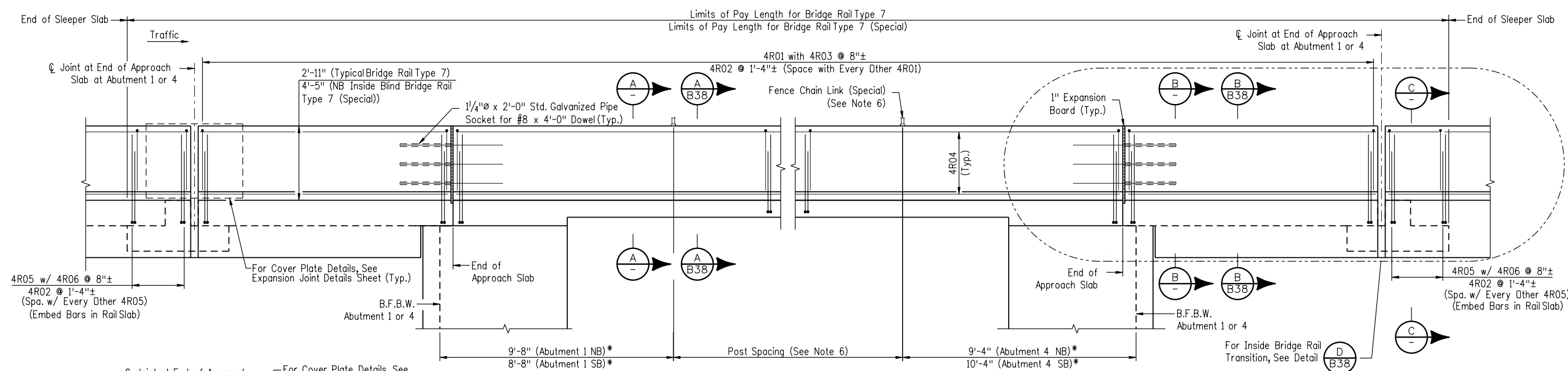
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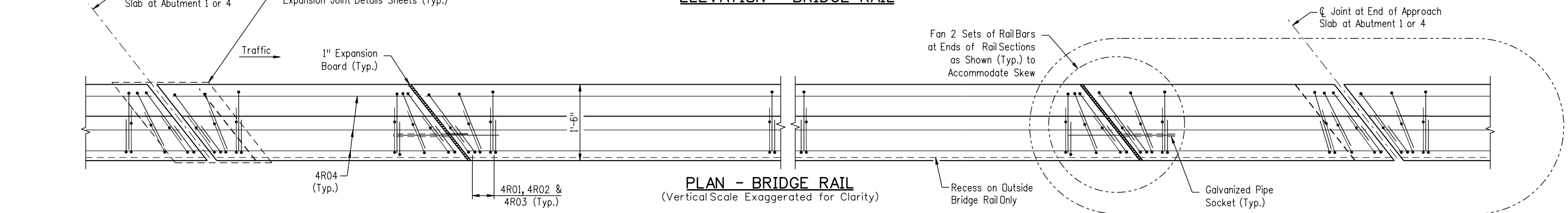
- NOTES:
1. Shop galvanize the cover plates followed by two coats of zinc rich paint to match barrier color.
 2. Dimensions given are at the centerline of the expansion joint. Vertical dimensions vary. Contractor to verify dimensions based upon as-built approach slab elevations.
 3. A1 and A4 refer to Abutment 1 and Abutment 4 respectively.

Print Date: 1/7/2011	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE EXPANSION JOINT DETAILS II		Project No./Code
File Name: 16311\FBE_PH2_36_Exp_Joint_Det2.dgn	Date:	Comments	Init.			Designer: M. Keller	Structure: F-16-XS	BR 0252-407
Horiz. Scale: Vert. Scale: As Noted	R-2	1/3/2011	Rev 2 (Reissued)	MK	Revised:	Detailer: K. Montgomery	17783	
Unit Information Unit Leader Initials	R-3	1/10/2011	Rev 3 (Reissued)	MK	Void:	Sheet Subset: Bridge	Subset Sheets: B36 of 57	Sheet Number 137 C
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222								

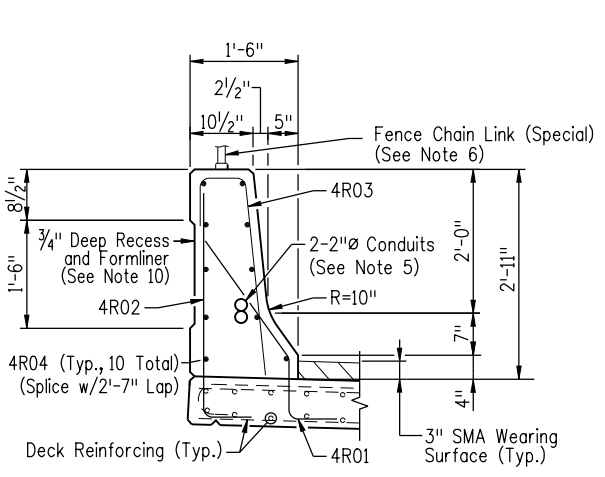
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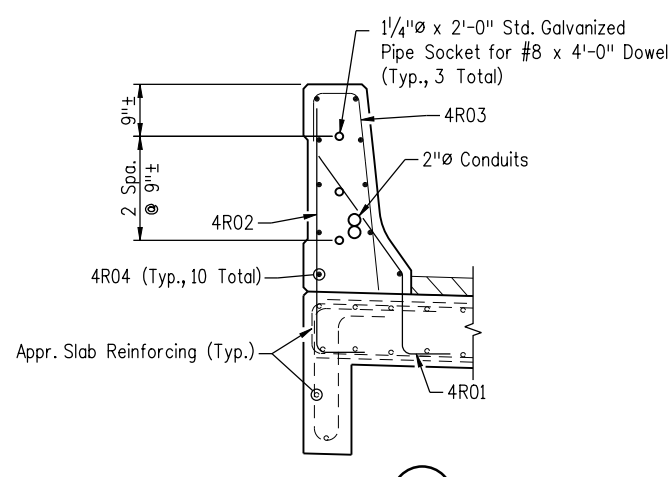
ELEVATION - BRIDGE RAIL



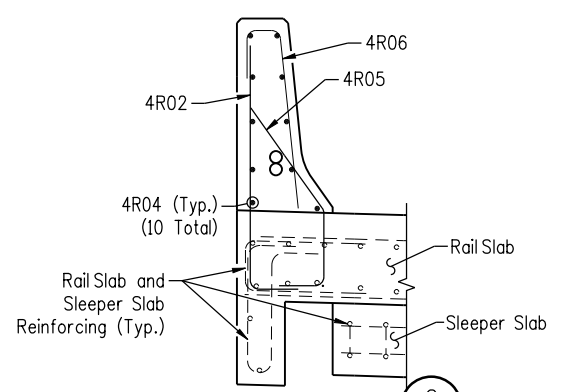
PLAN - BRIDGE RAIL
(Vertical Scale Exaggerated for Clarity)



SECTION A-A
(Typical Bridge Rail Type 7)



SECTION B-B
(Typical Bridge Rail Type 7)
(On Approach Slab)



SECTION C-C
(Typical Bridge Rail Type 7 at Sleeper Slab)
(Outside Bridge Rail Only)

- NOTES:**
- Concrete for Bridge Rail Shall be Class D, 4500 psi.
 - Reinforcing Steel for Bridge Rail Shall be Epoxy Coated.
 - Concrete Cover Shall be 1/2".
 - The Top and Side Surfaces of the Rail Shall be Tested with a 10 Foot Straightedge Laid Along the Surface in the Longitudinal Direction. Deviation of the Concrete Surface from the Straightedge Shall be Less than 1/4" Plus Allowance for Roadway Horizontal and Vertical Curvature, if any.
 - Provide 2-2" Galvanized Rigid Metal Conduits in Each Outside Bridge Rail. Provide 6"x6"x4" Deep Pull Boxes on the Outside Face of the Railing per the Requirements of NEC or at a Maximum Spacing of 300'-0". See Construction Layout 1 Sheet for Additional Information.
 - For Post Spacing, See Fence Chain Link (Special) Sheet.
 - * Dimensions are Along Bridge Rail. First Posts Shall be Located 5" (Max.) From Monument. Contractor Shall Verify the Location of the Monument Prior to Installing Posts.
 - Bridge Rail Shall be Constructed Plumb.
 - Payment for Bridge Rail Type 7 and Bridge Rail Type 7 (Special) will be Made Under Item 606.
 - For Details of 3/4" Recess at Back of Outside Bridge Rail, See Aesthetics Sheets.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	12/10	Detailed By	12/10	Quantities By	12/10
Checked By	MSK	Checked By	KAM	Checked By	MSK

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_37_Bridge_Rail_Type7_1.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information: Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev. 2 (Reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

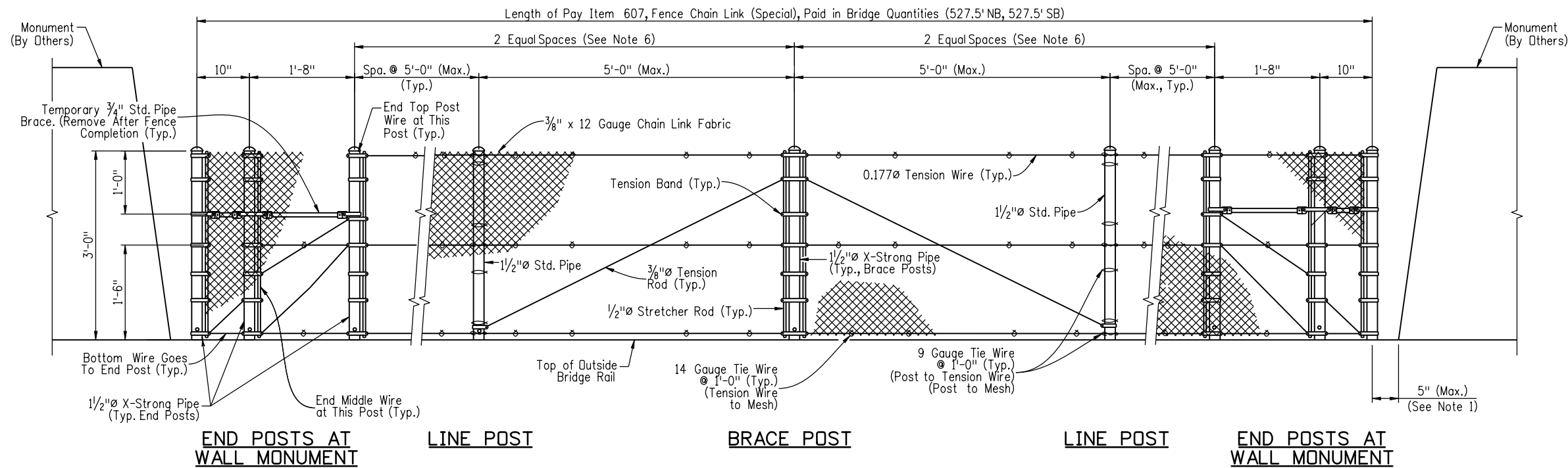
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
BRIDGE RAIL TYPE 7 DETAILS I
 Designer: K McLaughlin
 Detailer: S. Franjesh
 Sheet Subset: Bridge
 Structure Numbers: F-16-XS
 Subset Sheets: B37 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 138 C

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 1/7/2011



DESIGN DATA

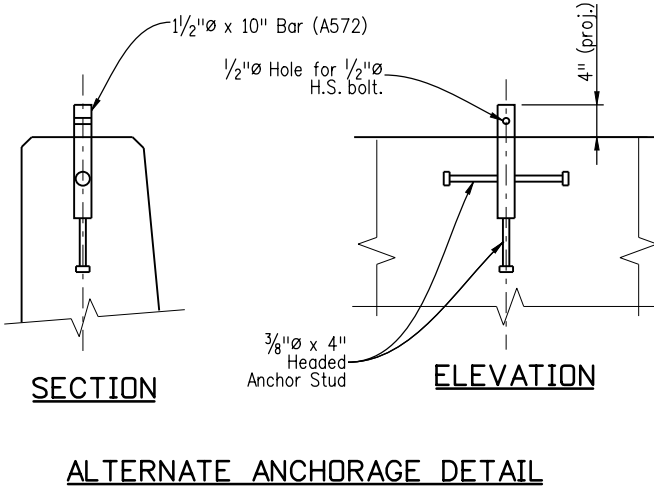
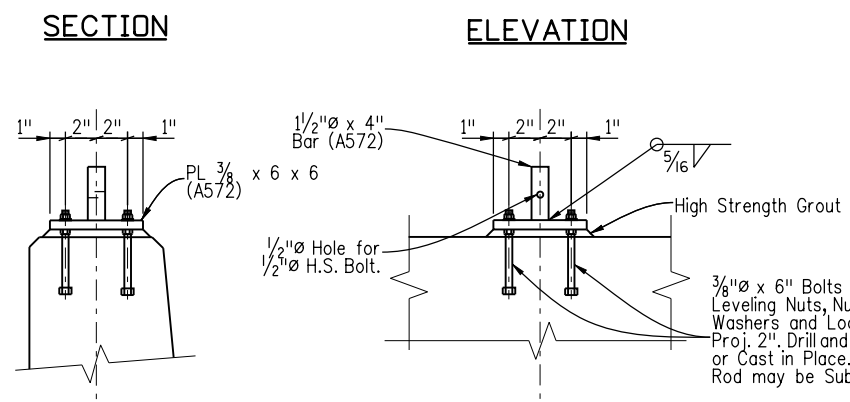
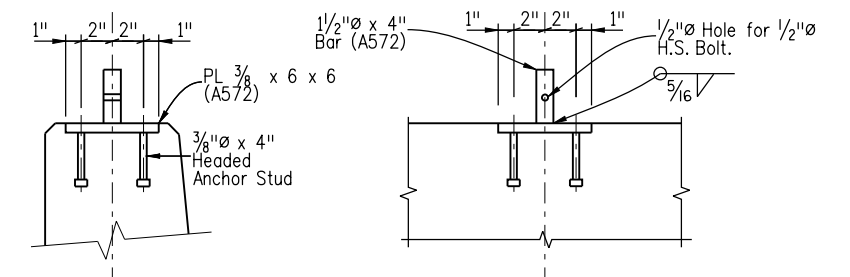
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 Test with: Max Midbay deflection = 1/4" for
 Lateral Load of 160 lbs. on 1 ft.
 1'-6" up @ Center of Bay.

Live Load: Wind Load = 32 psf
 or Snow Impact Load = 96 plf @ 1'-6" up

Structural Steel: Pipe $f_y = 35,000$ psi
 ASTM A572 (GR 50) $f_y = 50,000$ psi

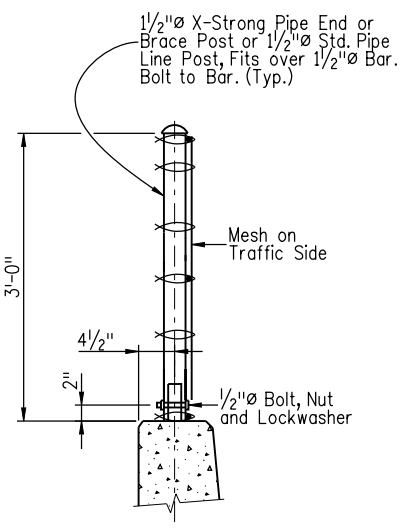
Standard Color Vinyl Coatings over Galvanized Wire	Munsell Color System ² No. (as per ASTM)
Galvanized Only	None
Brown	7YR 2.4/1.75
Green	8.8G 2.63/5.8
Black	1.8PB 1.26/0.5

- NOTES:**
- For Additional Post Location Information, See Bridge Rail Type 7 Details 1 Sheet.
 - Anchorage Assembly Shall be Galvanized After Fabrication. If Vinyl Coating is Specified, the Fence Assembly Shall be Galvanized and Vinyl Coated After Fabrication.
 - Tension Rods and Wires Shall Have Turnbuckles.
 - Posts Shall be Vertical.
 - Pipe Shall Conform to ASTM A53 Type E or S, Grade B.
 - Provide a Brace Post Approximately Midway Between End Posts.



ALTERNATE ANCHORAGE DETAILS

ALTERNATE ANCHORAGE DETAIL



TYPICAL SECTION

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

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DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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12/10	MSK	12/10	MSK	12/10	MSK

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_39_Fence_Chainlink.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
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1/10/2011	Rev. 3 (reissued)	MK	

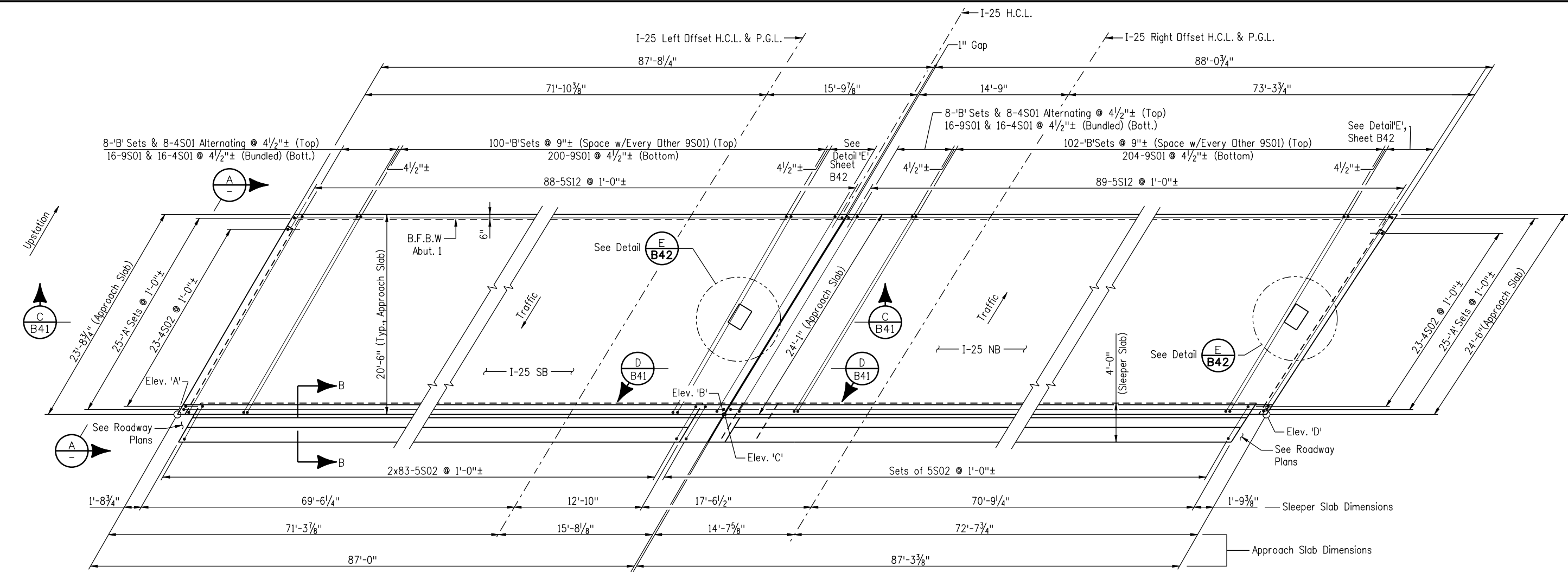
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

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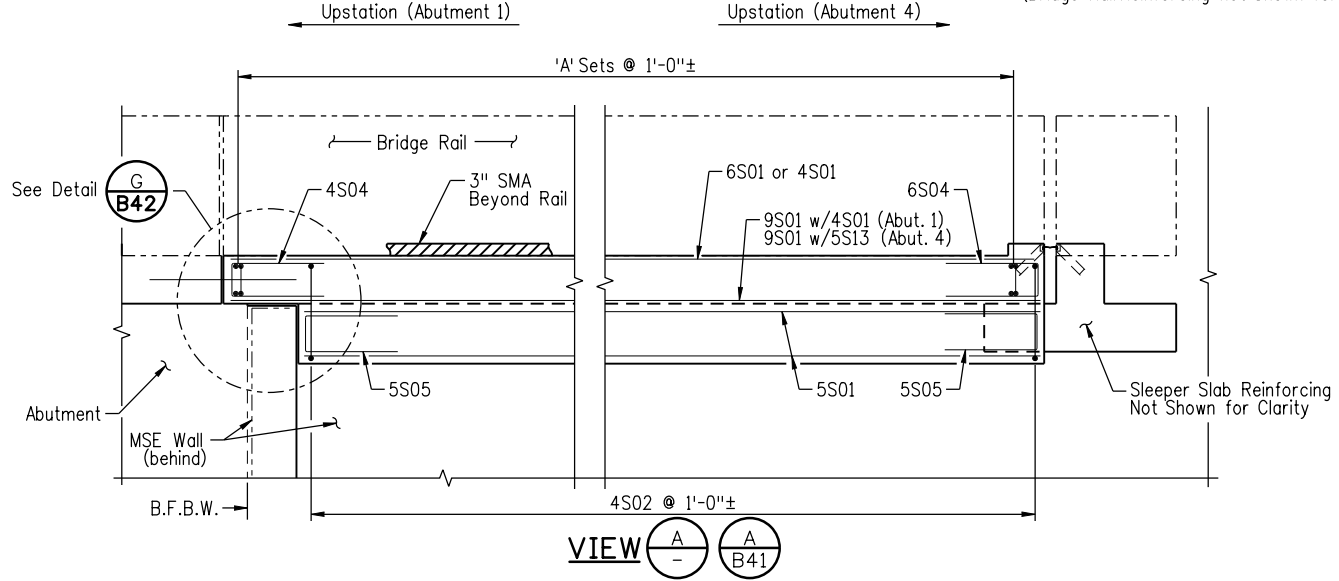
**I-25/SANTA FE INTERCHANGE
 I-25 OVER SANTA FE
 FENCE CHAIN LINK (SPECIAL)**
 Designer: K. McLaughlin
 Detailer: S. Franjesh
 Sheet Subset: Bridge
 Structure Numbers: F-16-XS
 Subset Sheets: B39 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 140 C

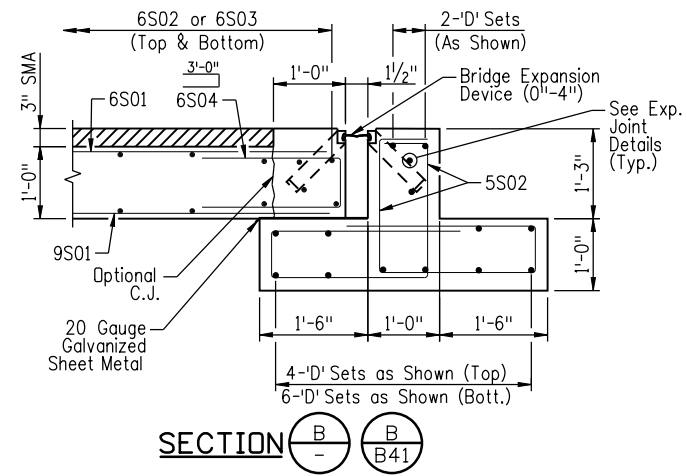


PLAN - ABUTMENT 1 APPROACH SLAB

(Only 5S02 Bars in Sleeper Slab Shown for Clarity)
(Bridge Rail Reinforcing not Shown for Clarity)



VIEW A-A



SECTION B-B

NOTES:

- For I-25 Horizontal Control Data, See General Layout Sheet.
- Reinforcing is Epoxy Coated. Concrete Cover Shall be 3" Bottom, 2" Elsewhere.
- Approach Slab Concrete is Class D and Shall Meet Class 2 Sulfate Severity Exposure Requirements.
- One 'A' Set Consists of 2-4S03, 2-6S02 & 2-6S03.
One 'B' Set Consists of 1-4S04, 1-6S01 & 1-6S04.
One 'C' Set Consists of 2-5S01 & 2-5S05.
One 'D' Set Consists of 1-5S03 & 1-5S04.
- Concrete at Drain Shall be Sloped and Modified to Accept Grate Frame on Top and Waterstop Below. See Miscellaneous Details for More Information.
- See Bridge Rail Details Sheets for Rail Reinforcing Embedded in Approach Slabs.
- See Expansion Joint Details Sheets for Expansion Device Cast into Approach and Sleeper Slabs.
- Temporary Retaining wall between NB & SB Bridges may Need to be Partially Removed or Adjusted to Construct Approach and Sleeper Slabs.
- For Elevations, See Approach Slab Details III Sheet.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_40_App_Slab_Det_1.dgn
 Horiz. Scale: Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions			
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1/10/2011	Rev. 3 (reissued)	MK	

Colorado Department of Transportation

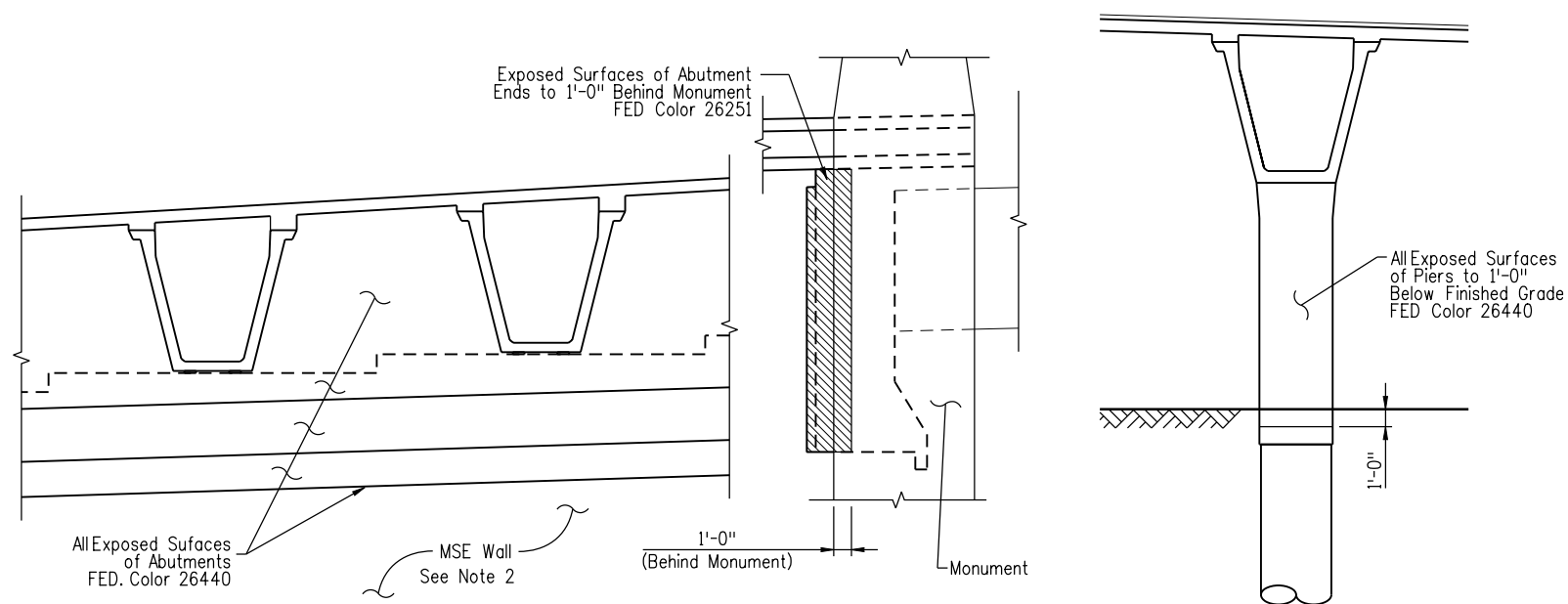
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
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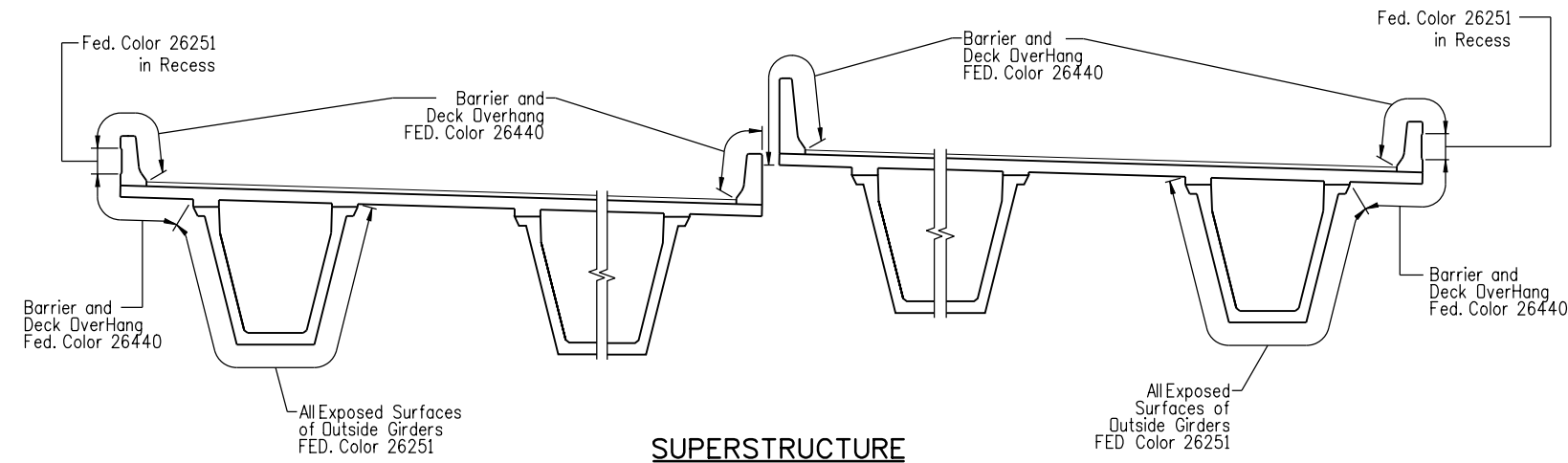
I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
APPROACH SLAB DETAILS I
 Designer: K. McLaughlin
 Detailer: S. Franjesh
 Sheet Subset: Bridge

Project No./Code
 BR 0252-407
 17783
 Sheet Number 141 C

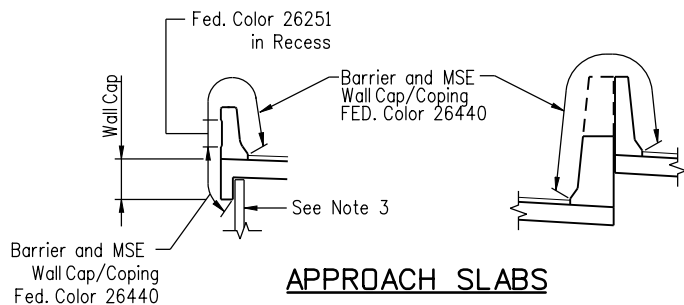
PRELIMINARY - NOT FOR CONSTRUCTION



SUBSTRUCTURE



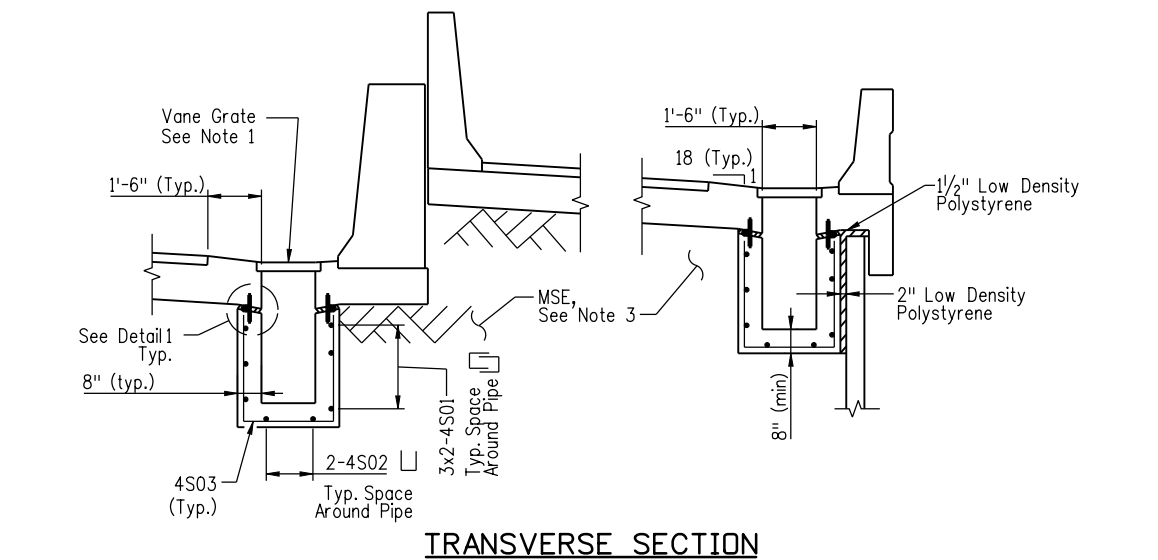
SUPERSTRUCTURE



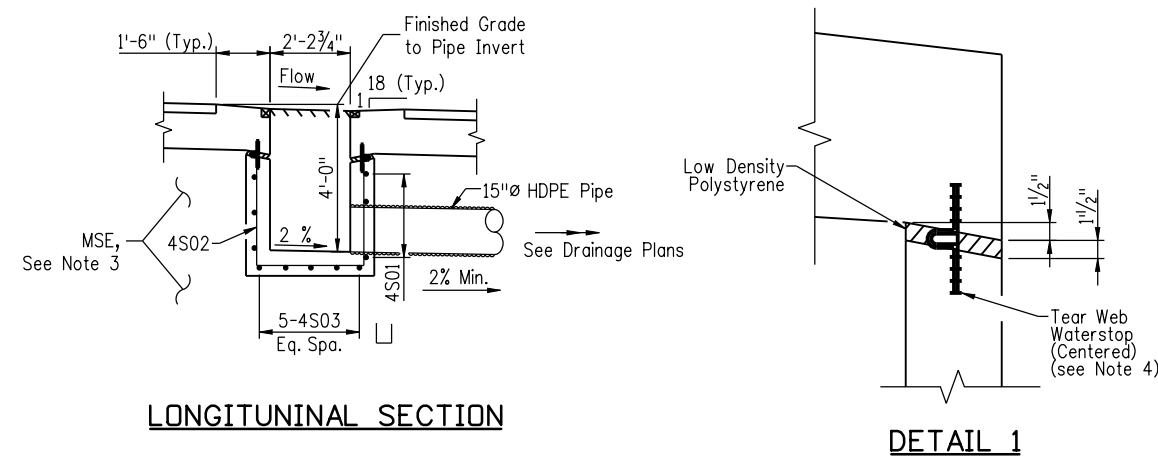
APPROACH SLABS

LIMITS OF STRUCTURAL CONCRETE STAIN

- NOTES:**
- The Details here Describe the Required Limits of both Structural Concrete Stain and Structural Concrete Coating (ANTI-GRAFFITI). The Anti-Graffiti Coating Shall be Applied after Staining is Complete.
 - See Aesthetic Details Sheets for Additional Information.
 - See Wall Plans and Aesthetic Details Sheets for MSE Wall Information.
 - For Surface Finish of Bridge Rail, Wall Cap and Abutment End, see Aesthetic Details Sheets. Otherwise Surfaces to Receive Stain Shall be Prepared in Accordance with Specifications for Structural Concrete Coating.



TRANSVERSE SECTION



LONGITUNAL SECTION

DETAIL 1

NOTES:

- Vane grate shall be capable of supporting AASHTO HL-93 Truck wheel loading with impact. Grate shall be installed during construction of the inlet and shall be bolted to the frame. Frame shall be positively attached to the concrete with anchor bolts or other embeds.
- The cost of all labor and materials associated with the inlet is incidental to Concrete Class D (Bridge), and Reinforcing Steel (Epoxy Coated) for the approach slabs. The 15" HDPE pipe is quantified in the drainage plans.
- MSE shall be used all around the inlet, such that the inlet is not required to retain soil or support the MSE wall facing. Alternate designs may be proposed by the Contractor.
- Tear web waterstop shall continuously line the perimeter of the joint between approach slab and inlet. Splices shall be in accordance with manufacturer's recommendations. Waterstop shall be capable of allowing 3" of shear movement.
- Drainage inlet concrete and reinforcing requirements are the same as for the approach slab. Concrete cover shall be 3".

APPROACH SLAB BOX DRAIN

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File Name: 16311FBE_PH2_43_Misc_Details.dgn	
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222	

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev 2 (reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

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Region 6 RLB

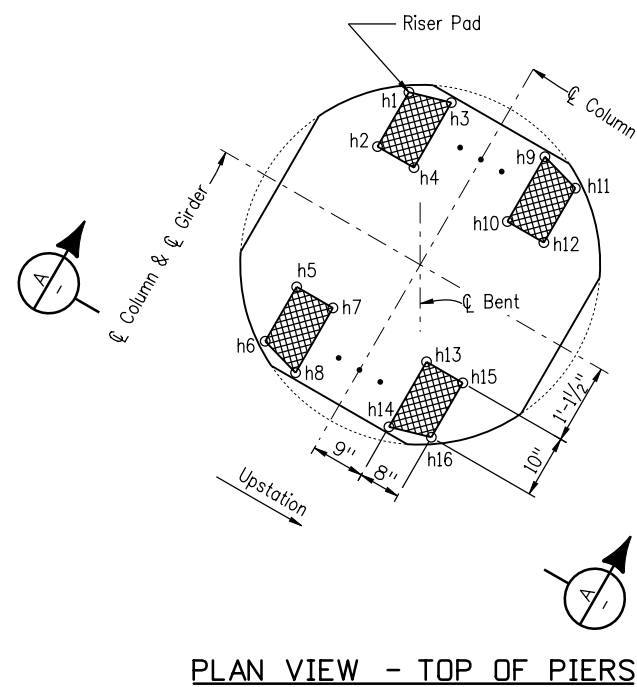
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I-25/SANTA FE INTERCHANGE			
I-25 OVER SANTA FE			
MISCELLANEOUS DETAILS			
Designer:	M. Keller	Structure Numbers	F-16-XS
Detailer:	S. Fall	Subset Sheets:	B43 of 57

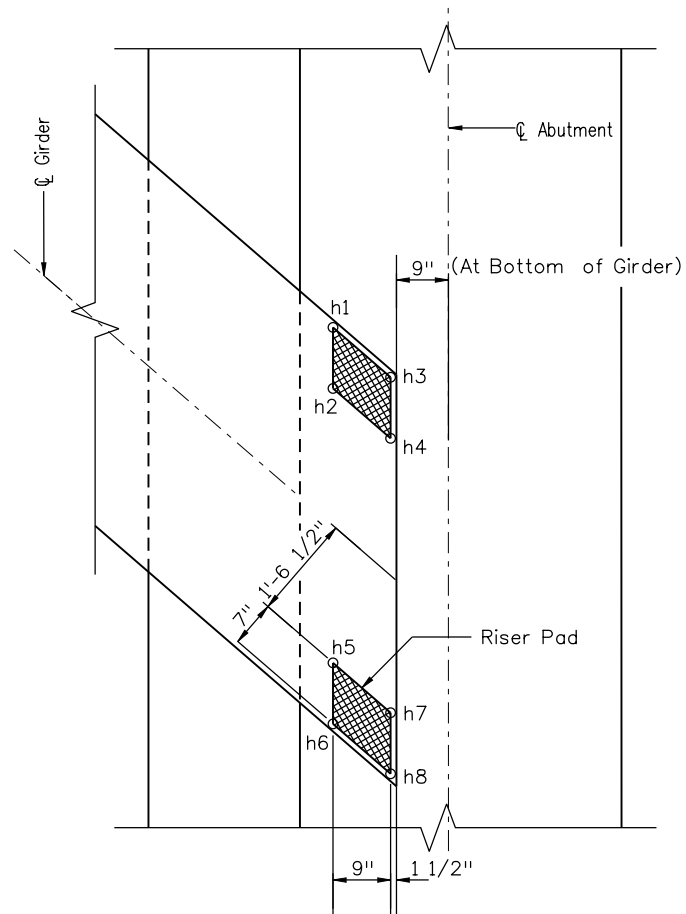
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BR 0252-407
17783
Sheet Number 143 C

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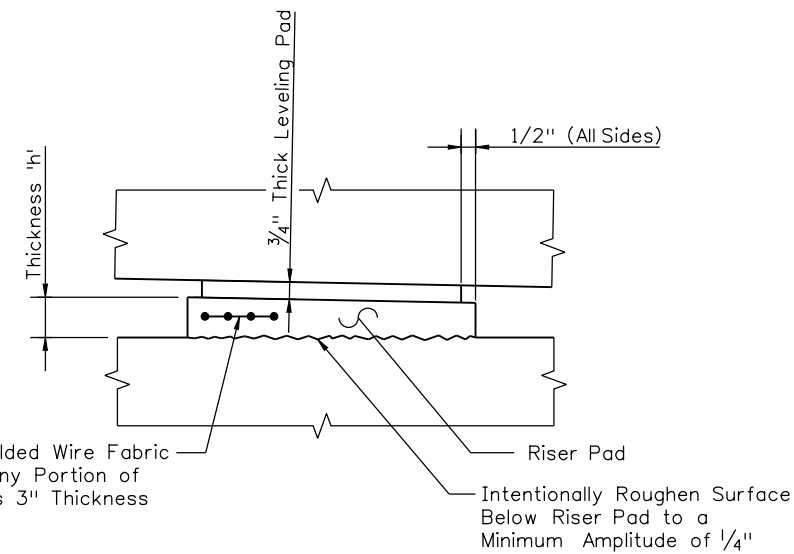
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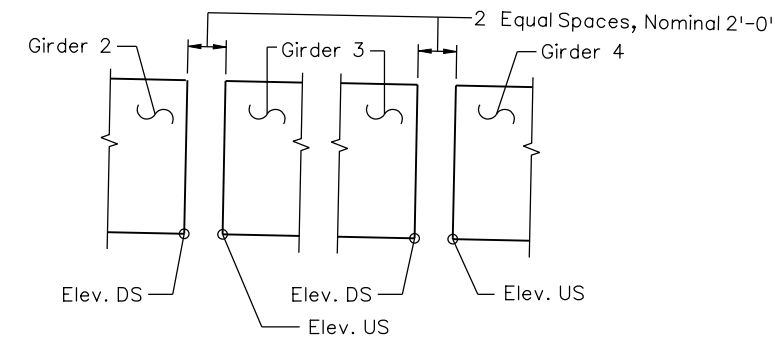
PLAN VIEW - TOP OF PIERS



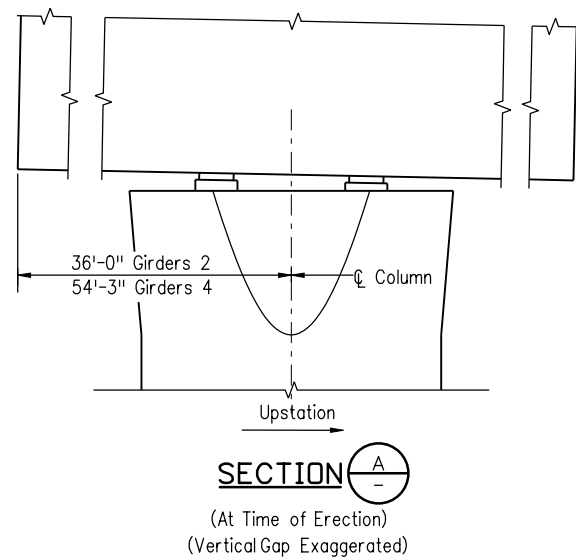
ELEVATION - SPAN 1 OR SPAN 3 CLOSURE



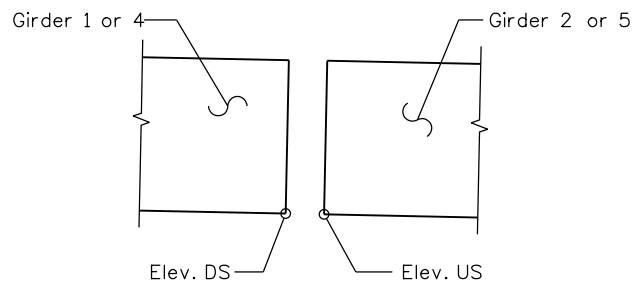
RISER / LEVELING PAD DETAIL



ELEVATION - SPAN 2 CLOSURE



SECTION A-A
(At Time of Erection)
(Vertical Gap Exaggerated)



ELEVATION - SPAN 2 CLOSURE

NOTES:

- Concrete or Grout for Riser Pads Shall Attain a Minimum Strength of 4500 psi Prior to Erection of the Girders.
- Riser Pad Thicknesses are Based Upon the Top of Pier and Abutment Bearing Seat Elevations Shown in the Plans. The Thicknesses Shall be Adjusted Based on the As-Built Elevations of These Elements.
- Riser Pad Plan Dimensions are Given on This Drawing. The Neoprene Leveling Pads Shall be of the Same Shape and 1/2" Smaller on All Sides.
- The Closure Elevations are Theoretical Elevations at the End of the Girder at the Time Each Closure is Poured. Girders 1, 3 and 5 Elevations Shall be Adjusted to Match the Actual Tip Elevations of Girders 2 and 4. The Contractor is Responsible for Determining Falsework Support Details to Achieve These Elevations to Accommodate Their Means and Methods.
- DS Denotes Downstation. US Denotes Upstation.
- See Leveling Pad Details II Drawing for Riser Pad Thicknesses and Closure Elevations.

Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 1/7/2011	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE LEVELING PAD DETAILS I		Project No./Code BR 0252-407 17783 Sheet Number 143a C
File Name: 16311FBE_PH2_44_Leveling_Pad_DetailsI.dgn	Date:	Comments	Init.			Designer: K. Montgomery Detailer: S. Fall Sheet Subset: Bridge	Structure Numbers: F-16-XS Subset Sheets: B44 of 57	
Horiz. Scale: 1:1				 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222				
Unit Information								


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		RISER PAD THICKNESS																
Location	Girder	h1	h2	h3	h4	h5	h6	h7	h8	h9	h10	h11	h12	h13	h14	h15	h16	
ABUTMENT 1	A1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	B1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	C1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	D1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	E1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	F1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	G1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	H1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PIER 2	B2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	C2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	D2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	E2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	F2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	G2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PIER 3	H2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	A4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	B4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	D4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	C4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	D4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PIER 3	E4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	F4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	G4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	H4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	ABUTMENT 4	A5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		B5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
D5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ABUTMENT 4	G5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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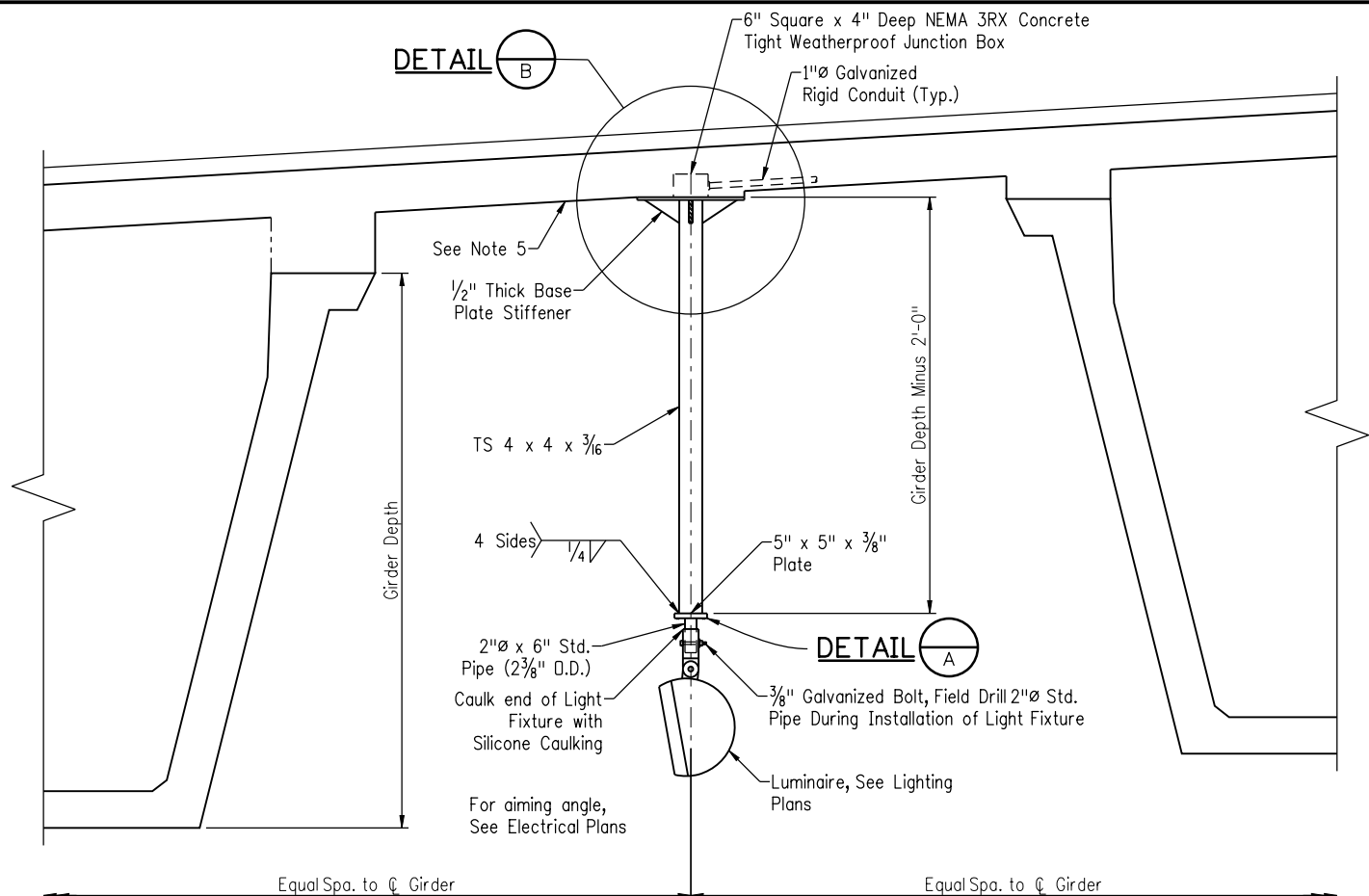
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Closure	Girder	Elev DS	Elev US		
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	B				
	C				
	D				
	E				
	F				
	G				
	H				
	A				
SPAN 2(DS)	B				
	C				
	D				
	E				
	F				
	G				
	H				
	A				
	B				
SPAN 2(US)	C				
	D				
	E				
	F				
	G				
	H				
	A				
	B				
	C				
SPAN 3	D				
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	D				

Revision Dates		(Preliminary Stage Only)	
MM/YY			

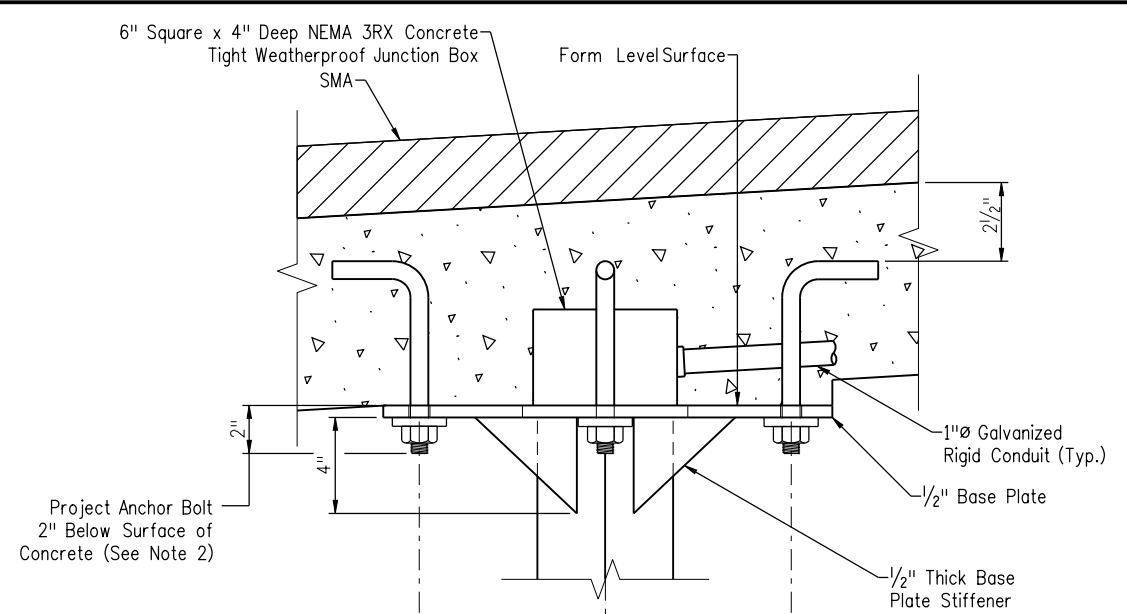
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Checked By	MSK	Checked By	RKM	Checked By	N/A

Print Date: 1/7/2011	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE LEVELING PAD DETAILS II		Project No./Code		
File Name: 16311FBE_PH2_44a_Leveling_Pad_DetailsII.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		Designer: K. Montgomery Detailer: S. Fall Sheet Subset: Bridge		BR 0252-407		
Horiz. Scale: 1:1	1/3/2011	Rev. 2 (Issued)	MK			Revised:				Structure Numbers		17783
Unit Information	1/10/2011	Rev. 3 (reissued)	MK	Region 6		Void:		Subset Sheets: B44a of 57		Sheet Number 143b C		
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222												

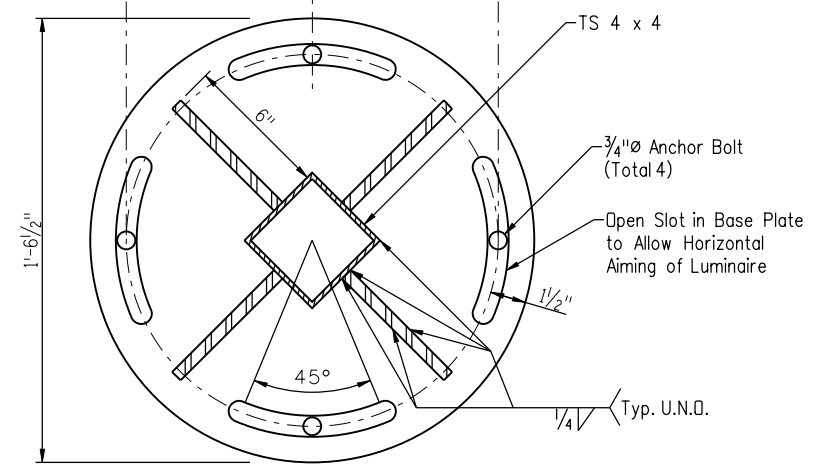
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PENDANT LUMINAIRE MOUNTING DETAIL

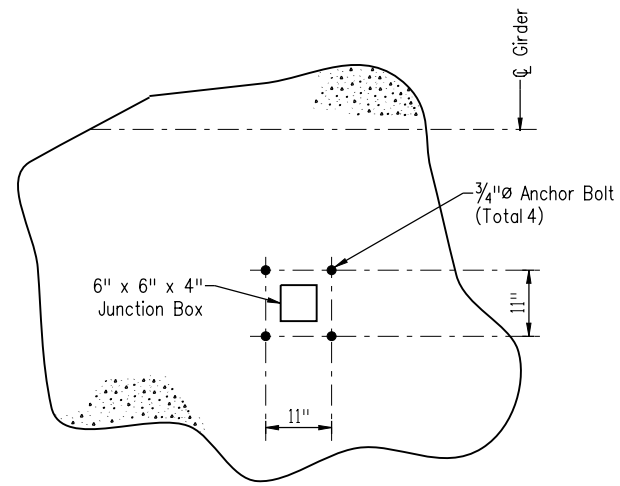


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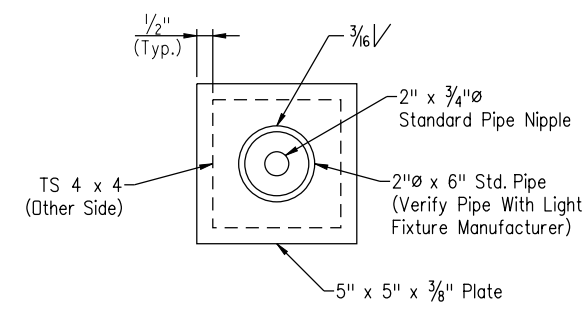


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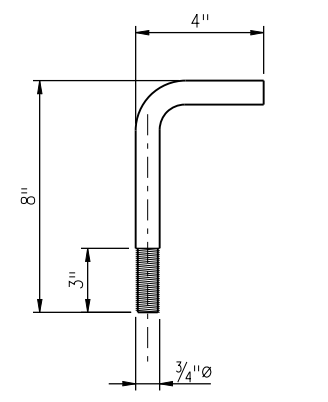
DETAIL B



TYPICAL ANCHOR BOLT PLACEMENT DIAGRAM



DETAIL A



ANCHOR BOLT DETAIL

- NOTES:**
- Structural Tubing Shall be ASTM A500 Grade B. Steel Pipe Shall be ASTM A53, Type E or S Grade B. All Other Structural Steel Shall be ASTM 706, Grade 36.
 - Anchor Bolts, Nuts and Washers Shall be Galvanized.
 - Paint Structural Tubing Per Specifications Section 509. Color shall be Federal Color No. 26251 (Dark Gray).
 - See Construction Layout for Location of Conduit and Luminaires.
 - Do Not Use SteelDeck Forms Where Luminaires Are to Be Mounted.
 - The cost of all labor and materials for mounting luminaires is incidental to the cost of the luminaire, which is quantified in the lighting plans.

Revision Dates		Quantities	
MM/YY	MM/YY	INITIAL	DATE
		N/A	N/A
		N/A	N/A
		N/A	N/A

Design		Detail		Quantity	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10		
RKM	12/10	MSK	12/10		

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FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

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Date:	Comments	Init.	
1/3/2011	Rev 2 (reissued)	MK	
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Region 6 **RLB**

As Constructed

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I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
UNDER BRIDGE LIGHTING DETAILS

Designer: M. Keller Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B45 of 57

Project No./Code

BR 0252-407

17783

Sheet Number **144 C**

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Revision Dates	(Preliminary Stage Only)	
MM/YY		

Design		Detail		Quantities	
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Print Date: 10/25/2010	
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Unit Information	Unit Leader Initials
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222	

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Sheet Revisions		
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Region 6 **RLB**

As Constructed
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Designer:	M. Keller	Structure Numbers	F-16-XS
Detailer:	S. Fall	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets:	B44 of 57

Project No./Code
BR 0252-407
17783
Sheet Number 145

PRELIMINARY - NOT FOR CONSTRUCTION

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Revision Dates	(Preliminary Stage Only)	
MM/YY		

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

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Unit Information	Unit Leader Initials
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222	

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Sheet Revisions		
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Region 6 **RLB**

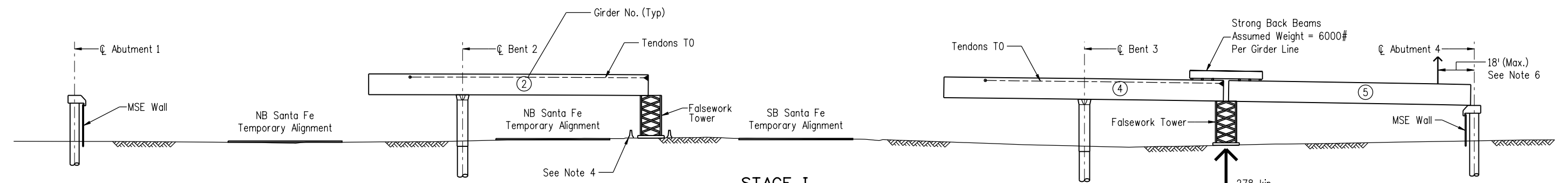
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Project No./Code
BR 0252-407
17783
Sheet Number 146

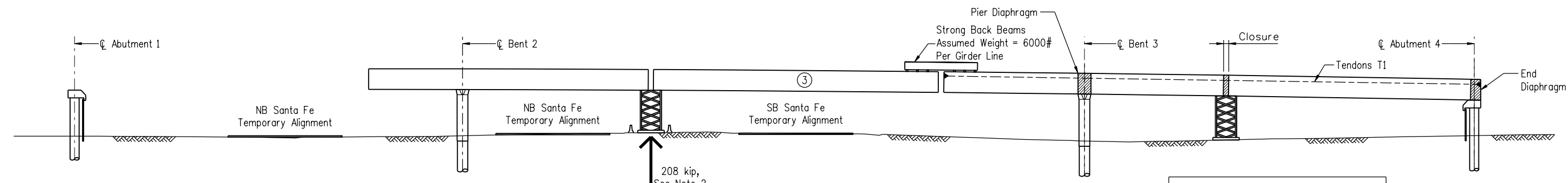
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Overhead Transmission Lines,
See Project Special Provisions



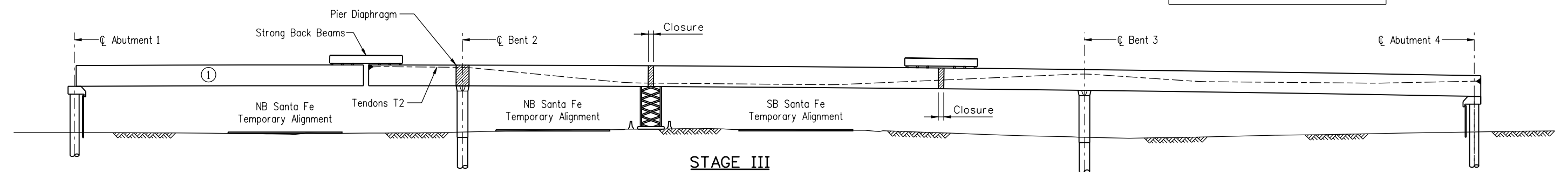
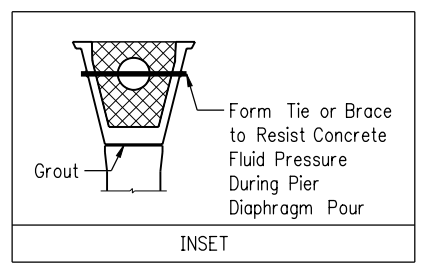
STAGE I

1. Construct Shafts, Piers, and Abutment Seats.
2. Erect Falsework Towers.
3. Stress and Grout Tendons T0 (See Note 9).
4. Erect Girder Sections 2, 4 and 5, Bracing Section 4 to 5 with Strong Back Beams, or by Utilizing a Counterweight on Girder 4 (See Notes 7, 8, & 10).
5. Grout the Interfaces Between Pier Columns and Girders.



STAGE II

1. Pour Abutment 4 End Diaphragms and Pier 3 Diaphragms (See Inset).
2. Pour Span 3 Closures (See Note 3).
3. When Diaphragm Concrete Reaches 4000 psi and Closure Concrete Reaches 2500 psi, Stress and Grout Tendons T1. Tendons T1 Shall be Stressed Within 24 Hours of Pouring the Closure.
4. Erect Girder Sections 3 supported by Falsework Tower and Strong Back Beams (See Notes 7, 8, & 10).



STAGE III

1. Pour Pier 2 Diaphragms, See Inset.
2. Pour Span 2 Closures (See Note 3).
3. When Diaphragm Concrete Reaches 4000 psi and Closure Concrete Reaches 2500 psi, Stress and Grout Tendons T2. Tendons T2 Shall be Stressed Within 24 Hours of Pouring the Closure.
4. Remove Span 3 Falsework Towers.
5. Erect Girder Sections 1 Supported by Strong Back Beams (See Notes 7, 8, & 10).

- NOTES:**
1. For Notes, See Construction Schematic 2 Drawing.
 2. All References to Notes on this Drawing Refer to Notes on the Construction Schematic 2 Drawing.

Revision Dates (Preliminary Stage Only)	
MM/YY	DATE

Design		Detail		Quantities	
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12/10	MSK	12/10	SJF	12/10	NVA

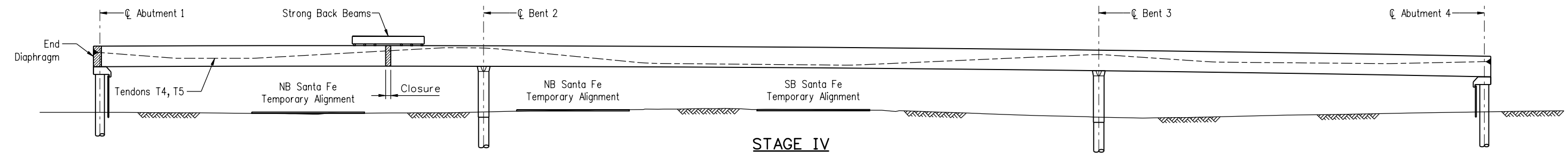
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Unit Information Unit Leader Initials	1/10/2011	Rev. 3 (reissued)	MK			Void:				Subset Sheets: B46 of 57		Sheet Number 147 C	

FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

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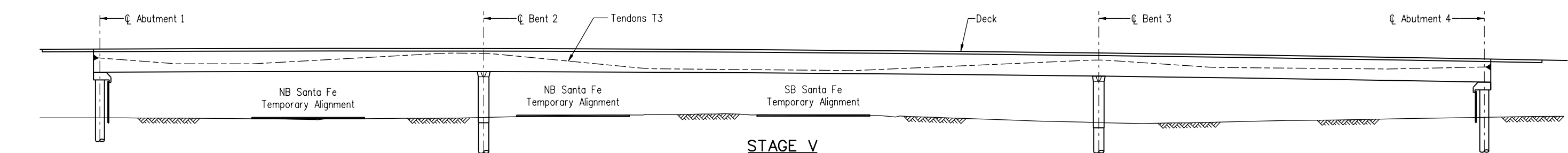
PRELIMINARY - NOT FOR CONSTRUCTION

Overhead Transmission Lines,
See Project Special Provisions



STAGE IV

1. Pour Abutment 1 End Diaphragms.
2. Pour Span 1 Closures (See Note 3).
3. When Diaphragm Concrete Reaches 4000 psi and Closure Concrete Reaches 2500 psi, Stress and Grout Tendons T4. Tendons T4 Shall be Stressed Within 24 Hours of Pouring the Closure.
4. When Concrete for All Closures has Reached 5500 psi, Stress and Grout Tendons T5.
5. Remove Span 2 Falsework Towers.

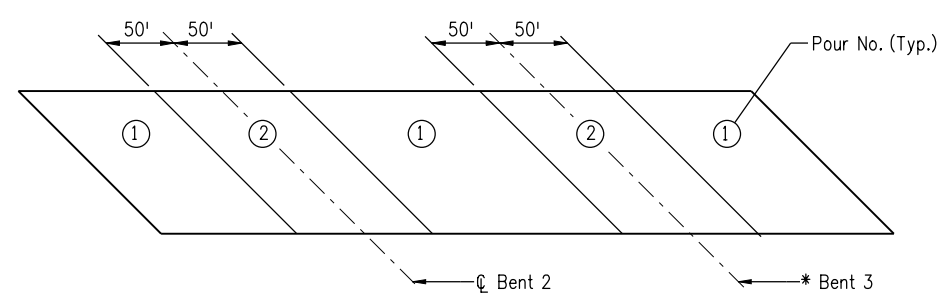


STAGE V

1. Cast Deck on Girders in One Continuous Pour. Alternatively, Follow the Sequence Shown on this Sheet. See Note 11.
2. After Deck Concrete Reaches 4000 psi and Concrete for All Closures has Reached 6000 psi, Stress and Grout Tendons T3.
3. Pour Back the Stressing Blockouts and Apply Anchorage Protection at the Abutments.
4. Backfill Behind Abutment. Place Approach Slabs, Barriers, Wearing Surface and other Miscellaneous Items.

NOTES:

1. The Information Shown on the Construction Schematic Drawings Illustrates the Assumptions Made by the Engineer to Design the Structure. This Information is Supplied for Information Only. The Contractor is Responsible for Selecting the Means and Methods of Construction. If the Construction Sequence is Followed, the Contractor is Responsible for the Stability, Strength and Stresses in the Structure During Construction, as well as Confirming Falsework Loads and the Design of all Falsework, Including the Strong Back Beams. If the Contractor Elects to Change the Construction Sequence, They are Responsible for the Redesign of the Structure for the Revised Sequence.
2. Falsework Reactions Shown Are the Maximum Service Level Reactions for the Sequence Shown for One Girder Line. They Do Not Include any Live Load Allowance, or the Weight of the Falsework Tower and Foundation.
3. Pour Closures at a Time of day to Minimize the Temperature Effects. The Ideal Time to Cast Closures is Between 3 and 6 Hours after Sunset.
4. Crash Protection May be Required Around Falsework Towers Near Roadway. It is the Responsibility of the Contractor to Determine if Crash Protection is Required and Provide Adequate Protection as Applicable.
5. Construction Activities Shall be Coordinated With the Alameda Ave. Reconstruction Project.
6. Alternate Girder Lifting Locations may be Required for Girders near Overhead Transmission Lines. Contractor Shall Determine Details of Lifting and any Required Embeds or Bracing for their Means and Methods.
7. Girders Shall Not be Erected over Live Traffic. Temporary Night Closures of Santa Fe Will be Required for Girder Erection.
8. The Contractor is Responsible for the Stability of the Girders and Girder Stresses During Casting, Storage, Transportation, Erection and Until Construction is Complete.
9. T0 Tendons shall be Stressed and Grouted in the Casting Yard within 14 Days of Casting the Girder and after the Girder Concrete has Reached 4000 psi. Girders 2 or 4 Shall Not be Erected Until these Tendons Have Been Stressed, Grouted and the Grout has Attained 2500 psi Strength
10. Girders Shall Have Attained a Strength of 9000 psi and be a Minimum of 45 Days Old When Erected.
11. Tendons T0, T1, T2, T4 and T5 Shall be Grouted Prior to Pouring the Deck.



Alternative Deck Pour Sequence

Revision Dates		Quantities	
MM/YY	MM/YY	INITIAL	DATE

Design		Detail		Quantity	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
MSK	12/10	SJF	12/10	N/A	N/A
RKM	12/10	MSK	12/10	N/A	N/A

Print Date: 1/7/2011
File Name: 16311FBE_PH2_47_Const._Schem_2.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials
FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
1/3/2011	Rev. 2 (reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 **RLB**

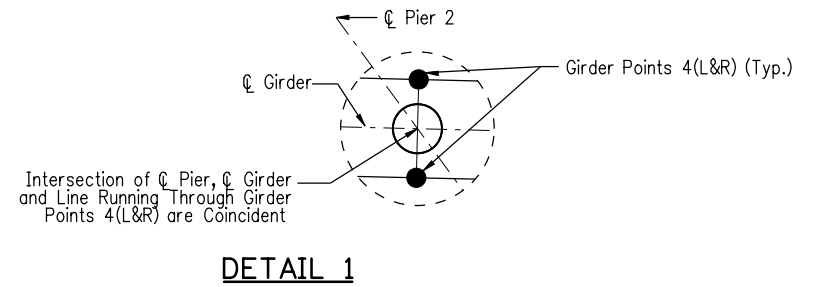
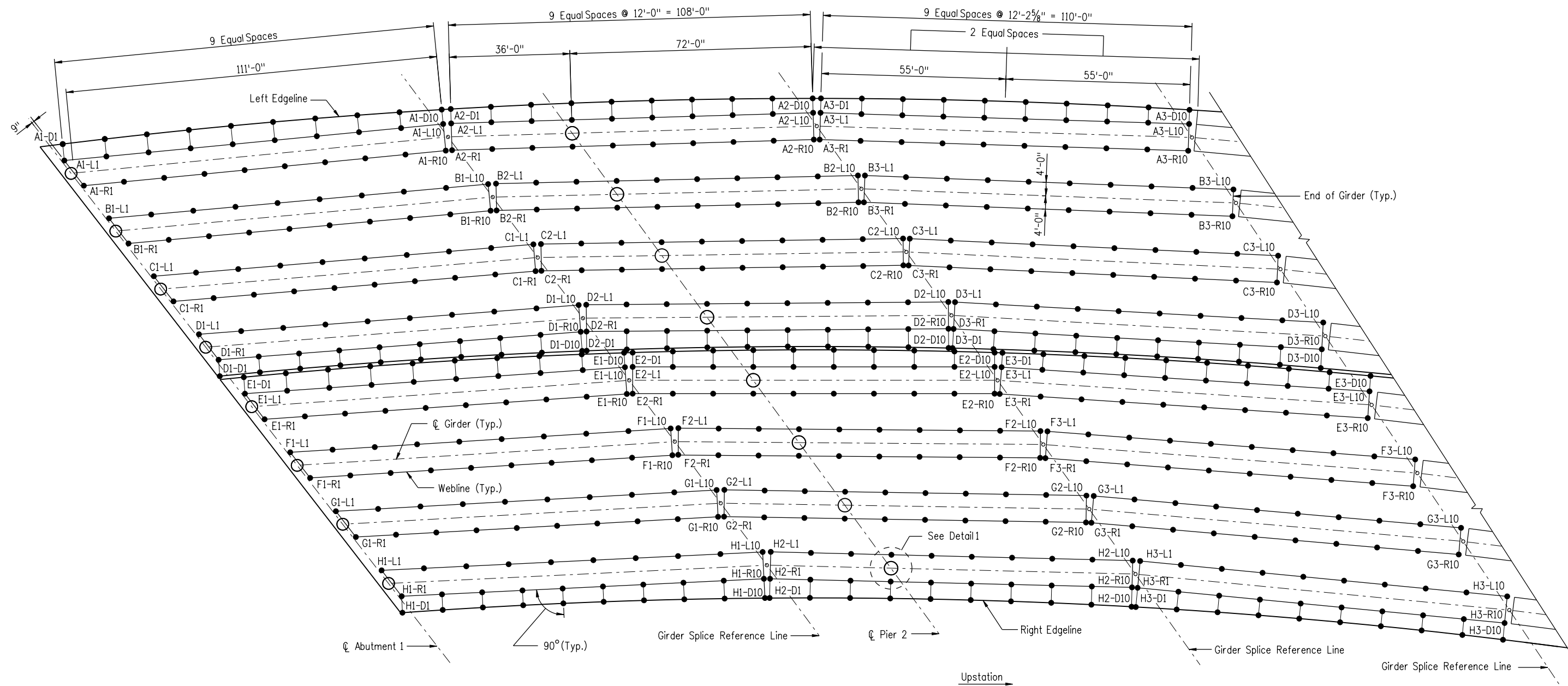
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No Revisions:
Revised:
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I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE CONSTRUCTION SCHEMATIC II			
Designer:	M. Keller	Structure	F-16-XS
Detailer:	S. Fall	Numbers	
Sheet Subset:	BRIDGE	Subset Sheets:	B47 of 57

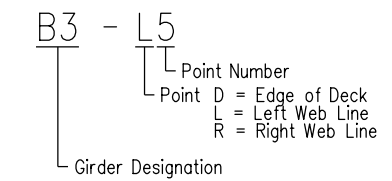
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BR 0252-407
17783
Sheet Number 148 C

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1/7/2011 CDDT-PDF driver.plt

PRELIMINARY - NOT FOR CONSTRUCTION



**BRIDGE DECK ELEVATIONS
KEY PLAN**



ELEVATION POINT LEGEND

- NOTES:
1. Bridge Deck Elevations are at the Top of 3" SMA Wearing Surface.

Revision Dates (Preliminary Stage Only)	
MM/YY	MM/YY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 1/7/2011
File Name: 16311FBE_PH2_48_Deck_Elev1.dgn
Horiz. Scale: 1:1 Vert. Scale: As Noted
Unit Information Unit Leader Initials
FIGG
1873 S. BELLAIRE ST., STE 1500
DENVER CO, 80222

Sheet Revisions		
Date:	Comments	Init.
1/3/2011	Rev. 2 (Reissued)	MK
1/10/2011	Rev. 3 (reissued)	MK

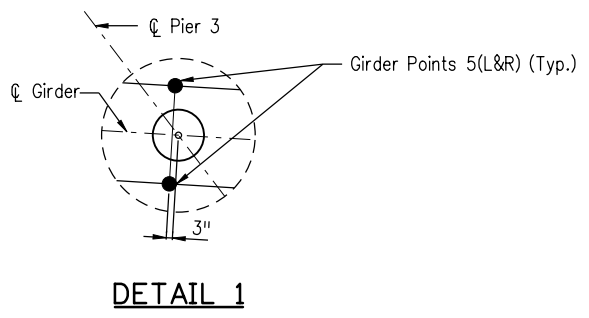
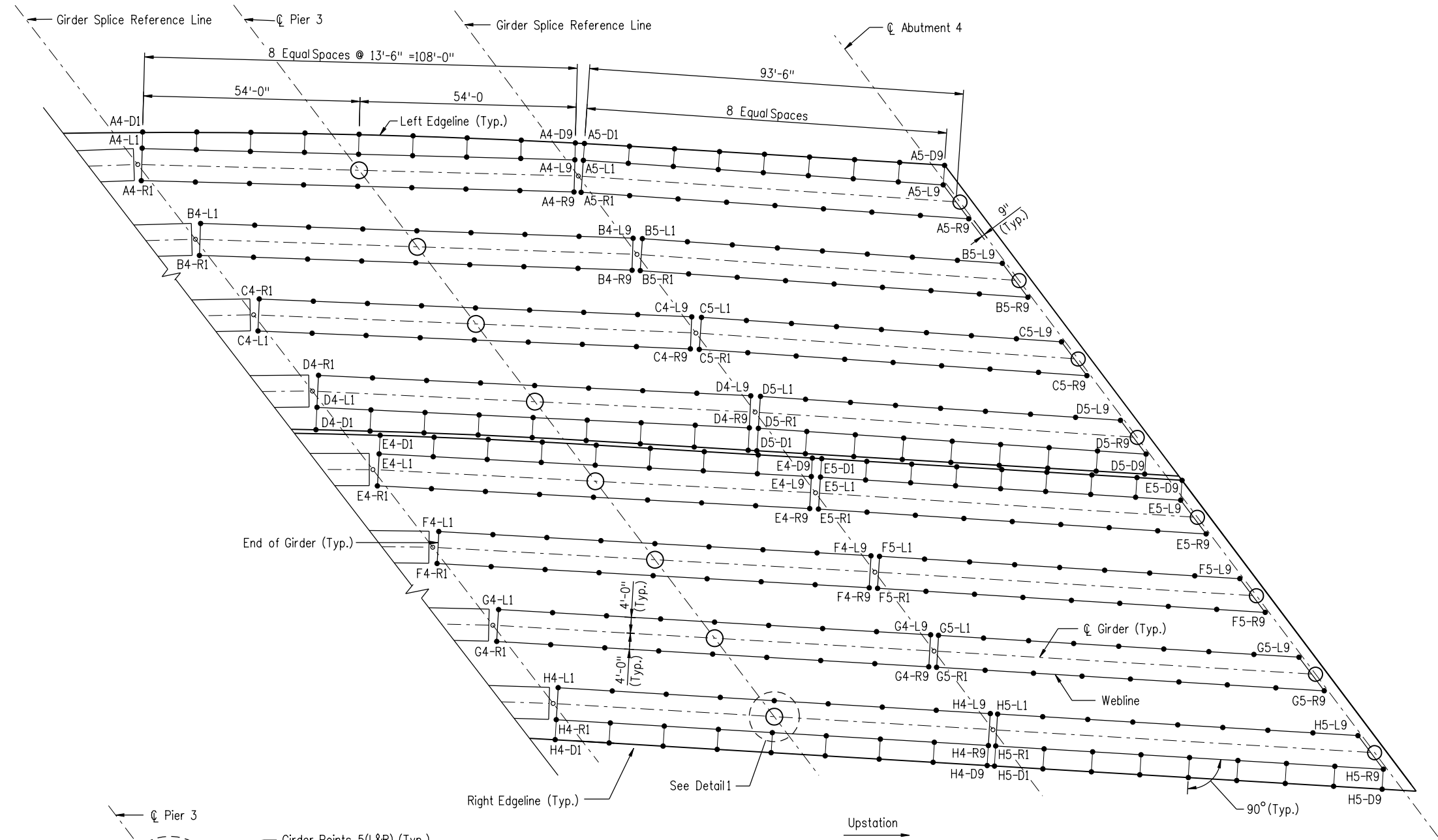
Colorado Department of Transportation
DOT
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

As Constructed
No Revisions:
Revised:
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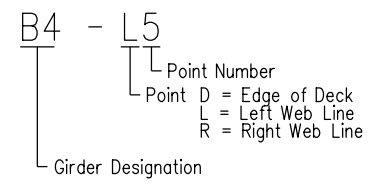
**I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
BRIDGE DECK ELEVATIONS I**
Designer: K. Montgomery
Detailer: S. Fall
Sheet Subset: Bridge

Project No./Code
BR 0252-407
17783
Sheet Number 149 C

PRELIMINARY - NOT FOR CONSTRUCTION



**BRIDGE DECK ELEVATIONS
KEY PLAN**



ELEVATION POINT LEGEND

NOTES:
1. Bridge Deck Elevations are at the Top of 3" SMA Wearing Surface.

Revision Dates		Quantities	
MM/YY		INITIAL	DATE
		N/A	N/A
		N/A	N/A

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
RM	12/10	SJF	12/10		
KRH	12/10	RKM	12/10		

Print Date: 1/7/2011
 File Name: 16311FBE_PH2_49_Deck_ElevII.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FIGG
 1873 S. BELLAIRE ST., STE 1500
 DENVER CO, 80222

Sheet Revisions			
Date:	Comments	Init.	
1/3/2011	Rev. 2 (Reissued)	MK	(R-2)
1/10/2011	Rev. 3 (reissued)	MK	(R-3)

Colorado Department of Transportation

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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
I-25 OVER SANTA FE
BRIDGE DECK ELEVATIONS II**

Designer: K. Montgomery Structure Numbers: F-16-XS
 Detailer: S. Fall
 Sheet Subset: Bridge Subset Sheets: B49 of 57

Project No./Code
 BR 0252-407
 17783
 Sheet Number 150 C

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 1/7/2011

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 CDDT-PDF driver.plt
 1/7/2011

Design		Detail		Quantities		Revision Dates (Preliminary Stage Only)	
Designed By	DATE	INITIAL	DATE	INITIAL	DATE	MM/YY	
Checked By	12/10	RKM	12/10	N/A	N/A		
	12/10	SJF	12/10	N/A	N/A		
	12/10	RKM	12/10	N/A	N/A		
	12/10	SJF	12/10	N/A	N/A		
	12/10	RKM	12/10	N/A	N/A		

GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GRIDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GRIDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 1SB																	
AI-D1	2630+58.2054	-61.5000	5259.0143	5259.0183	680310.1710	960788.0605	0.0000	-0.0600	C1-L1	2630+80.1744	-19.2080	5256.5947	5256.5987	680352.2011	960811.0100	0.0000	-0.0600
AI-D2	2630+70.4022	-61.5000	5259.0822	5259.1023	680320.6862	960781.0890	12.6163	-0.0600	C1-L2	2630+92.6598	-18.9296	5256.6359	5256.6560	680362.9545	960804.4018	12.6216	-0.0600
AI-D3	2630+82.5976	-61.5000	5259.1439	5259.1784	680331.2475	960774.1902	25.2312	-0.0600	C1-L3	2631+05.1483	-18.7394	5256.6760	5256.7105	680373.7078	960797.7936	25.2430	-0.0600
AI-D4	2630+94.7920	-61.5000	5259.1994	5259.2446	680341.8547	960767.3641	37.8450	-0.0600	C1-L4	2631+17.6389	-18.6373	5256.7148	5256.7600	680384.4612	960791.1854	37.8646	-0.0600
AI-D5	2631+06.9861	-61.5000	5259.2486	5259.2987	680352.5079	960760.6107	50.4584	-0.0600	C1-L5	2631+30.1303	-18.6234	5256.7524	5256.8024	680395.2146	960784.5772	50.4862	-0.0600
AI-D6	2631+19.1803	-61.5000	5259.2916	5259.3409	680363.2071	960753.9301	63.0720	-0.0600	C1-L6	2631+42.6212	-18.6976	5256.7887	5256.8380	680405.9679	960777.9691	63.1076	-0.0600
AI-D7	2631+31.3753	-61.5000	5259.3284	5259.3719	680373.9523	960747.3221	75.6865	-0.0600	C1-L7	2631+55.1106	-18.8600	5256.8237	5256.8672	680416.7213	960771.3609	75.7292	-0.0600
AI-D8	2631+43.5716	-61.5000	5259.3590	5259.3914	680384.7435	960740.7869	88.3023	-0.0600	C1-L8	2631+67.5971	-19.1105	5256.8575	5256.8900	680427.4747	960764.7527	88.3507	-0.0600
AI-D9	2631+55.7699	-61.5000	5259.3833	5259.4019	680395.5807	960734.3244	100.9201	-0.0600	C1-L9	2631+80.0795	-19.4492	5256.8901	5256.9087	680438.2280	960758.1445	100.9722	-0.0600
AI-D10	2631+67.9707	-61.5000	5259.4013	5259.4065	680406.4640	960727.9347	113.5405	-0.0600	C1-L10	2631+92.5566	-19.8759	5256.9213	5256.9265	680448.9814	960751.5364	113.5937	-0.0600
AI-L1	2630+58.0854	-56.5390	5258.7159	5258.7200	680312.8235	960792.2547	0.0000	-0.0600	C1-R1	2630+85.1251	-11.0850	5256.1311	5256.1351	680360.8092	960815.1099	0.0000	-0.0600
AI-L2	2630+70.3103	-56.2666	5258.7677	5258.7878	680323.4840	960785.5128	12.6135	-0.0600	C1-R2	2630+97.0945	-10.8509	5256.1702	5256.1903	680371.0715	960808.8035	12.0451	-0.0600
AI-L3	2630+82.5382	-56.0805	5258.8185	5258.8530	680334.1444	960778.7708	25.2269	-0.0600	C1-R3	2631+09.0666	-10.6975	5256.2083	5256.2428	680381.3338	960802.4971	24.0903	-0.0600
AI-L4	2630+94.7681	-55.9806	5258.8681	5258.9133	680344.8049	960772.0289	37.8404	-0.0600	C1-R4	2631+21.0401	-10.6247	5256.2451	5256.2903	680391.5961	960796.1907	36.1354	-0.0600
AI-L5	2631+06.9986	-55.9671	5258.9167	5258.9668	680355.4653	960765.2870	50.4537	-0.0600	C1-R5	2631+33.0141	-10.6326	5256.2808	5256.3309	680401.8584	960789.8843	48.1806	-0.0600
AI-L6	2631+19.2288	-56.0398	5258.9642	5259.0135	680366.1258	960758.5450	63.0673	-0.0600	C1-R6	2631+44.9874	-10.7211	5256.3154	5256.3647	680412.1207	960783.5779	60.2257	-0.0600
AI-L7	2631+31.4574	-56.1988	5259.0106	5259.0541	680376.7862	960751.8031	75.6806	-0.0600	C1-R7	2631+56.9591	-10.8903	5256.3487	5256.3922	680422.3830	960777.2715	72.2709	-0.0600
AI-L8	2631+43.6834	-56.4439	5259.0558	5259.0883	680387.4467	960745.0612	88.2941	-0.0600	C1-R8	2631+68.9279	-11.1401	5256.3809	5256.4134	680432.6453	960770.9651	84.3160	-0.0600
AI-L9	2631+55.9055	-56.7754	5259.1000	5259.1187	680398.1071	960738.3193	100.9075	-0.0600	C1-R9	2631+80.8929	-11.4705	5256.4119	5256.4306	680442.9076	960764.6587	96.3611	-0.0600
AI-L10	2631+68.1229	-57.1930	5259.1431	5259.1483	680408.7677	960731.5773	113.5211	-0.0600	C1-R10	2631+92.8530	-11.8815	5256.4417	5256.4469	680453.1699	960758.3522	108.4063	-0.0600
AI-R1	2630+62.7982	-48.4218	5258.2559	5258.2600	680321.3609	960796.3210	0.0000	-0.0600	D1-L1	2630+91.6301	-0.5427	5255.5282	5255.5323	680372.0032	960820.4415	0.0000	-0.0600
AI-R2	2630+74.5322	-48.1916	5258.3053	5258.3254	680331.5479	960789.8785	12.0532	-0.0600	D1-L2	2631+04.2499	-0.2610	5255.5638	5255.5839	680382.8042	960813.9033	12.6258	-0.0600
AI-R3	2630+86.2687	-48.0406	5258.3537	5258.3882	680341.7349	960783.4360	24.1065	-0.0600	D1-L3	2631+16.8730	-0.0686	5255.5981	5255.6326	680393.6051	960807.3650	25.2515	-0.0600
AI-R4	2630+98.0066	-47.9686	5258.4011	5258.4463	680351.9219	960776.9935	36.1597	-0.0600	D1-L4	2631+29.4983	0.0348	5255.6311	5255.6762	680404.4061	960800.8267	37.8773	-0.0600
AI-R5	2631+09.7449	-47.9759	5258.4475	5258.4975	680362.1088	960770.5510	48.2129	-0.0600	D1-L5	2631+42.1244	0.0490	5255.6627	5255.7128	680415.2071	960794.2884	50.5031	-0.0600
AI-R6	2631+21.4826	-48.0622	5258.4928	5258.5421	680372.2958	960764.1085	60.2662	-0.0600	D1-L6	2631+54.7500	-0.0260	5255.6930	5255.7423	680426.0080	960787.7501	63.1288	-0.0600
AI-R7	2631+33.2187	-48.2276	5258.5371	5258.5806	680382.4828	960757.6661	72.3193	-0.0600	D1-L7	2631+67.3740	-0.1902	5255.7220	5255.7655	680436.8090	960781.2118	75.7546	-0.0600
AI-R8	2631+44.9522	-48.4721	5258.5803	5258.6128	680392.6698	960751.2236	84.3726	-0.0600	D1-L8	2631+79.9951	-0.4434	5255.7496	5255.7821	680447.6100	960774.6735	88.3804	-0.0600
AI-R9	2631+56.6820	-48.7957	5258.6226	5258.6412	680402.8567	960744.7811	96.4258	-0.0600	D1-L9	2631+92.6118	-0.7857	5255.7759	5255.7946	680458.4109	960768.1353	101.0061	-0.0600
AI-R10	2631+68.4072	-49.1984	5258.6638	5258.6689	680413.0437	960738.3386	108.4790	-0.0600	D1-L10	2632+05.2232	-1.2170	5255.8009	5255.8061	680469.2119	960761.5970	113.6319	-0.0600
BI-L1	2630+68.9964	-37.8735	5257.6571	5257.6612	680332.4756	960801.6148	0.0000	-0.0600	D1-R1	2630+96.7069	7.5835	5255.0625	5255.0666	680380.6490	960824.5595	0.0000	-0.0600
BI-L2	2630+81.3501	-37.5982	5257.7038	5257.7239	680343.1821	960794.9388	12.6174	-0.0600	D1-R2	2631+08.7976	7.8197	5255.0963	5255.1163	680390.9496	960818.3241	12.0409	-0.0600
BI-L3	2630+93.7070	-37.4100	5257.7493	5257.7838	680353.8887	960788.2628	25.2348	-0.0600	D1-R3	2631+20.8910	7.9743	5255.1287	5255.1632	680401.2503	960812.0886	24.0819	-0.0600
BI-L4	2631+06.0658	-37.3090	5257.7937	5257.8388	680364.5952	960781.5868	37.8522	-0.0600	D1-R4	2631+32.9859	8.0476	5255.1600	5255.2051	680411.5509	960805.8532	36.1228	-0.0600
BI-L5	2631+18.4254	-37.2953	5257.8369	5257.8870	680375.3018	960774.9107	50.4697	-0.0600	D1-R5	2631+45.0812	8.0394	5255.1899	5255.2400	680421.8515	960799.6178	48.1636	-0.0600
BI-L6	2631+30.7846	-37.3688	5257.8789	5257.9282	680386.0083	960768.2347	63.0871	-0.0600	D1-R6	2631+57.1758	7.9498	5255.2187	5255.2680	680432.1521	960793.3824	60.2045	-0.0600
BI-L7	2631+43.1421	-37.5295	5257.9198	5257.9632	680396.7148	960761.5587	75.7045	-0.0600	D1-R7	2631+69.2688	7.7788	5255.2462	5255.2897	680442.4528	960787.1470	72.2454	-0.0600
BI-L8	2631+55.4970	-37.7774	5257.9594	5257.9919	680407.4214	960754.8826	88.3220	-0.0600	D1-R8	2631+81.3588	7.5263	5255.2724	5255.3049	680452.7534	960780.9116	84.2863	-0.0600
BI-L9	2631+67.8479	-38.1124	5257.9979	5258.0166	680418.1279	960748.2066	100.9393	-0.0600	D1-R9	2631+93.4448	7.1925	5255.2974	5255.3161	680463.0540	960774.6762	96.3272	-0.0600
BI-L10	2631+80.1936	-38.5345	5258.0353	5258.0404	680428.8344	960741.5306	113.5567	-0.0600	D1-R10	2632+05.5258	6.7772	5255.3212	5255.3263	680473.3547	960768.4407	108.3682	-0.0600
BI-R1	2630+73.8258	-29.7534	5257.1954	5257.1995	680341.0476	960805.6976	0.0000	-0.0600	D1-D1	2630+96.5931	12.5000	5254.7671	5254.7711	680383.1957	960828.7665	0.0000	-0.0600
BI-R2	2630+85.6764	-29.5214	5257.2398	5257.2599	680351.2720	960799.3222	12.0492	-0.0600	D1-D2	2631+08.7211	12.5000	5254.8151	5254.8352	680393.3737	960822.3285	12.0432	-0.0600
BI-R3	2630+97.5295	-29.3691	5257.2832	5257.3176	680361.4964	960792.9468	24.0985	-0.0600	D1-D3	2631+20.8478	12.5000	5254.8570	5254.8915	680403.5940	960815.9604	24.0851	-0.0600
BI-R4	2631+09.3840	-29.2968	5257.3254	5257.3706	680371.7208	960786.5714	36.1477	-0.0600	D1-D4	2631+32.9738	12.5000	5254.8928	5254.9379	680413.8566	960809.6621	36.1263	-0.0600
BI-R5	2631+21.2390	-29.3044	5257.3666	5257.4166	680381.9452	960780.1960	48.1969	-0.0600	D1-D5	2631+45.0994	12.5000	5254.9223	5254.9724	680424.1614	960803.4337	48.1671	-0.0600
BI-R6	2631+33.0934	-29.3918	5257.4066	5257.4559	680392.1696	960773.8206	60.2462	-0.0600	D1-D6	2631+57.2254	12.5000	5254.9457	5254.9950	680434.5086	960797.2752	60.2084	-0.0600
BI-R7	2631+44.9461	-29.5591	5257.4456	5257													

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 2SB																	
A2-D1	2631+70.5755	-61.5000	5259.4044	5259.4076	680408.7932	960726.5802	0.0000	-0.0600	C2-L1	2631+94.8272	-19.8827	5256.9221	5256.9253	680450.9783	960750.4035	0.0000	-0.0600
A2-D2	2631+82.1804	-61.5000	5259.4145	5259.4095	680419.1940	960720.5867	12.0041	-0.0600	C2-L2	2632+06.6921	-19.5642	5256.9012	5256.8962	680461.6078	960744.8345	12.0000	-0.0600
A2-D3	2631+93.7836	-61.5000	5259.4190	5259.4141	680429.6319	960714.6618	24.0064	-0.0600	C2-L3	2632+18.5606	-19.3255	5256.8792	5256.8743	680472.2372	960739.2655	23.9999	-0.0600
A2-D4	2632+05.3856	-61.5000	5259.4178	5259.4261	680440.1069	960708.8053	36.0074	-0.0600	C2-L4	2632+30.4318	-19.1664	5256.8561	5256.8643	680482.8667	960733.6964	36.0000	-0.0600
A2-D5	2632+16.9868	-61.5000	5259.4110	5259.4554	680450.6190	960703.0173	48.0076	-0.0600	C2-L5	2632+42.3046	-19.0870	5256.8318	5256.8762	680493.4962	960728.1274	48.0000	-0.0600
A2-D6	2632+28.5878	-61.5000	5259.3986	5259.4932	680461.1682	960697.2977	60.0076	-0.0600	C2-L6	2632+54.1779	-19.0872	5256.8064	5256.9010	680504.1257	960722.5584	60.0000	-0.0600
A2-D7	2632+40.1890	-61.5000	5259.3805	5259.5354	680471.7546	960691.6466	72.0079	-0.0600	C2-L7	2632+66.0507	-19.1672	5256.7799	5256.9348	680514.7552	960716.9893	72.0000	-0.0600
A2-D8	2632+51.7910	-61.5000	5259.3568	5259.5750	680482.3781	960686.0639	84.0089	-0.0600	C2-L8	2632+77.9217	-19.3268	5256.7523	5256.9705	680525.3846	960711.4203	83.9999	-0.0600
A2-D9	2632+63.3942	-61.5000	5259.3274	5259.6074	680493.0387	960680.5498	96.0111	-0.0600	C2-L9	2632+89.7903	-19.5661	5256.7176	5256.9976	680536.0141	960705.8512	96.0000	-0.0597
A2-D10	2632+74.9991	-61.5000	5259.2924	5259.6295	680503.7364	960675.1041	108.0152	-0.0600	C2-L10	2633+01.6552	-19.8849	5256.6608	5256.9980	680546.6436	960700.2822	108.0000	-0.0583
A2-L1	2631+70.4539	-57.2014	5259.1463	5259.1495	680410.8430	960730.3606	0.0000	-0.0600	C2-R1	2631+94.5900	-11.8862	5256.4423	5256.4455	680454.6910	960757.4899	0.0000	-0.0600
A2-L2	2631+82.0790	-56.8895	5259.1378	5259.1328	680421.3921	960724.6408	12.0000	-0.0600	C2-R2	2632+06.5076	-11.5664	5256.4214	5256.4164	680465.3205	960751.9208	12.0000	-0.0600
A2-L3	2631+93.7075	-56.6556	5259.1283	5259.1234	680431.9412	960718.9210	24.0000	-0.0600	C2-R3	2632+18.4288	-11.3266	5256.3994	5256.3945	680475.9499	960746.3518	24.0000	-0.0600
A2-L4	2632+05.3385	-56.4999	5259.1179	5259.1261	680442.4903	960713.2011	36.0000	-0.0600	C2-R4	2632+30.3528	-11.1668	5256.3762	5256.3844	680486.5794	960740.7827	36.0000	-0.0600
A2-L5	2632+16.9709	-56.4221	5259.1064	5259.1508	680453.0394	960707.4813	48.0000	-0.0600	C2-R5	2632+42.2784	-11.0870	5256.3519	5256.3963	680497.2089	960735.2137	48.0000	-0.0600
A2-L6	2632+28.6038	-56.4223	5259.0939	5259.1885	680463.5885	960701.7615	60.0000	-0.0600	C2-R6	2632+54.2045	-11.0872	5256.3264	5256.4210	680507.8384	960729.6447	60.0000	-0.0600
A2-L7	2632+40.2363	-56.5006	5259.0805	5259.2353	680474.1377	960696.0417	72.0000	-0.0600	C2-R7	2632+66.1299	-11.1676	5256.2997	5256.4546	680518.4678	960724.0756	72.0000	-0.0600
A2-L8	2632+51.8673	-56.6571	5259.0660	5259.2842	680484.6868	960690.3219	84.0000	-0.0600	C2-R8	2632+78.0539	-11.3279	5256.2719	5256.4901	680529.0973	960718.5066	84.0000	-0.0600
A2-L9	2632+63.4958	-56.8916	5259.0506	5259.3306	680495.2359	960684.6020	96.0001	-0.0600	C2-R9	2632+89.9752	-11.5682	5256.2392	5256.5192	680539.7268	960712.9376	96.0000	-0.0597
A2-L10	2632+75.1208	-57.2041	5259.0342	5259.3714	680505.7850	960678.8822	108.0000	-0.0600	C2-R10	2633+01.8928	-11.8885	5256.1929	5256.5301	680550.3563	960707.3685	108.0000	-0.0583
A2-R1	2631+70.2263	-49.2049	5258.6663	5258.6695	680414.6562	960737.3933	0.0000	-0.0600	D2-L1	2632+07.4922	-1.2234	5255.8004	5255.8036	680471.1948	960760.4909	0.0000	-0.0600
A2-R2	2631+81.9019	-48.8917	5258.6578	5258.6528	680425.2053	960731.6735	12.0000	-0.0600	D2-L2	2632+19.4807	-0.9018	5255.7730	5255.7679	680481.8651	960755.0006	11.9999	-0.0600
A2-R3	2631+93.5810	-48.6567	5258.6484	5258.6435	680435.7544	960725.9537	24.0000	-0.0600	D2-L3	2632+31.4730	-0.6604	5255.7443	5255.7394	680492.5355	960749.5104	23.9999	-0.0600
A2-R4	2632+05.2626	-48.5002	5258.6379	5258.6461	680446.3035	960720.2339	36.0000	-0.0600	D2-L4	2632+43.4681	-0.4997	5255.7144	5255.7226	680503.2059	960744.0201	36.0000	-0.0600
A2-R5	2632+16.9458	-48.4220	5258.6264	5258.6708	680456.8527	960714.5141	48.0000	-0.0600	D2-L5	2632+55.4647	-0.4194	5255.6833	5255.7277	680513.8762	960738.5298	47.9999	-0.0600
A2-R6	2632+28.6295	-48.4224	5258.6139	5258.7085	680467.4018	960708.7942	60.0001	-0.0600	D2-L6	2632+67.4620	-0.4197	5255.6510	5255.7455	680524.5466	960733.0395	59.9999	-0.0600
A2-R7	2632+40.3125	-48.5011	5258.6004	5258.7552	680477.9509	960703.0744	72.0000	-0.0600	D2-L7	2632+79.4587	-0.5005	5255.6175	5255.7723	680535.2170	960727.5492	72.0000	-0.0600
A2-R8	2632+51.9941	-48.6582	5258.5858	5258.8040	680488.5000	960697.3546	84.0000	-0.0600	D2-L8	2632+91.4536	-0.6617	5255.5824	5255.8006	680545.8873	960722.0590	83.9999	-0.0595
A2-R9	2632+63.6732	-48.8936	5258.5703	5258.8502	680499.0491	960691.6348	96.0000	-0.0600	D2-L9	2633+03.4460	-0.9035	5255.5452	5255.8252	680556.5577	960716.5687	95.9999	-0.0581
A2-R10	2632+75.3488	-49.2074	5258.5537	5258.8909	680509.5982	960685.9150	108.0000	-0.0600	D2-L10	2633+15.4346	-1.2257	5255.5058	5255.8430	680567.2281	960711.0784	108.0000	-0.0568
B2-L1	2631+82.4856	-38.5419	5258.0372	5258.0404	680430.8626	960740.3608	0.0000	-0.0600	D2-R1	2632+07.2499	6.7729	5255.3208	5255.3240	680474.8549	960767.6045	0.0000	-0.0600
B2-L2	2631+94.2293	-38.2268	5258.0227	5258.0176	680441.4516	960734.7153	11.9999	-0.0600	D2-R2	2632+19.2923	7.0960	5255.2933	5255.2882	680485.5253	960762.1142	12.0000	-0.0600
B2-L3	2632+05.9767	-37.9906	5258.0071	5258.0022	680452.0407	960729.0697	24.0000	-0.0600	D2-R3	2632+31.3385	7.3384	5255.2645	5255.2596	680496.1957	960756.6239	24.0001	-0.0600
B2-L4	2632+17.7265	-37.8331	5257.9904	5257.9986	680462.6297	960723.4242	36.0000	-0.0600	D2-R4	2632+43.3874	7.5000	5255.2345	5255.2428	680506.8661	960751.1337	36.0001	-0.0600
B2-L5	2632+29.4779	-37.7545	5257.9727	5258.0171	680473.2188	960717.7787	48.0000	-0.0600	D2-R5	2632+55.4380	7.5805	5255.2033	5255.2477	680517.5364	960745.6434	48.0000	-0.0600
B2-L6	2632+41.2297	-37.7548	5257.9539	5258.0485	680483.8078	960712.1332	59.9999	-0.0600	D2-R6	2632+67.4891	7.5803	5255.1709	5255.2655	680528.2068	960740.1531	60.0000	-0.0600
B2-L7	2632+52.9811	-37.8340	5257.9341	5258.0889	680494.3969	960706.4876	72.0000	-0.0600	D2-R7	2632+79.5397	7.4991	5255.1372	5255.2921	680538.8772	960734.6628	72.0001	-0.0600
B2-L8	2632+64.7309	-37.9920	5257.9132	5258.1314	680504.9859	960700.8421	83.9999	-0.0600	D2-R8	2632+91.5886	7.3371	5255.1060	5255.3242	680549.5475	960729.1725	84.0000	-0.0595
B2-L9	2632+76.4782	-38.2288	5257.8912	5258.1712	680515.5750	960695.1966	96.0000	-0.0600	D2-R9	2633+03.6347	7.0943	5255.0795	5255.3594	680560.2179	960723.6823	96.0000	-0.0581
B2-L10	2632+88.2219	-38.5445	5257.8634	5258.2006	680526.1640	960689.5510	108.0000	-0.0599	D2-R10	2633+15.6771	6.7707	5255.0507	5255.3879	680570.8883	960718.1920	108.0000	-0.0568
B2-R1	2631+82.2532	-30.5454	5257.5573	5257.5605	680434.6263	960747.4202	0.0000	-0.0600	D2-D1	2632+07.0751	12.5000	5254.9772	5254.9804	680477.4764	960772.6994	0.0000	-0.0600
B2-R2	2631+94.0486	-30.2290	5257.5428	5257.5378	680445.2153	960741.7746	12.0000	-0.0600	D2-D2	2632+19.1640	12.5000	5254.9691	5254.9641	680487.9984	960766.9207	12.0044	-0.0600
B2-R3	2632+05.8476	-29.9916	5257.5272	5257.5223	680455.8044	960736.1291	24.0000	-0.0600	D2-D3	2632+31.2510	12.5000	5254.9549	5254.9500	680498.5576	960761.2143	24.0069	-0.0600
B2-R4	2632+17.6491	-29.8335	5257.5105	5257.5187	680466.3934	960730.4836	36.0000	-0.0600	D2-D4	2632+43.3366	12.5000	5254.9346	5254.9429	680509.1538	960755.5800	36.0079	-0.0600
B2-R5	2632+29.4522	-29.7545	5257.4927	5257.5371	680476.9825	960724.8381	48.0000	-0.0600	D2-D5	2632+55.4214	12.5000	5254.9082	5254.9526	680519.7872	960750.0178	48.0082	-0.0600
B2-R6	2632+41.2558	-29.7549	5257.4739	5257.5684	680487.5715	960719.1925	60.0000	-0.0600	D2-D6	2632+67.5059	12.5000	5254.8757	5254.9702	680530.4577	960744.5277	60.0083	-0.0600
B2-R7	2632+53.0589	-29.8343	5257.4539	5257.6088	680498.1606	960713.5470	72.0000	-0.0600	D2-D7	2632+79.5907	12.5000	5254.8370	5254.9918	680541.1653	960739.1098	72.0085	-0.0600
B2-R8	2632+64.8603	-29.9930	5257.4329	5257.6511	680508.7496	960707.9015	83.9999	-0.0600	D2-D8	2632+91.6763	12.5000	5254.7986	5255.0168	680551.9100	960733.7640	84.0096	-0.0595
B2-R9	2632+76.6594	-30.2309	5257.4108	5257.6908	680519.3387	960702.											

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 3SB																	
A3-D1	2632+77.3825	-61.5000	5259.2845	5259.6306	680505.9379	960673.9942	0.0000	-0.0600	C3-L1	2633+03.6588	-19.8858	5256.6475	5256.9936	680548.4655	960699.3963	0.0000	-0.0581
A3-D2	2632+89.2023	-61.5000	5259.2272	5259.6212	680516.8771	960668.5338	12.2263	-0.0598	C3-L2	2633+15.7433	-19.5570	5256.5446	5256.9385	680559.6189	960694.3981	12.2221	-0.0568
A3-D3	2633+01.0202	-61.5000	5259.0963	5259.5282	680527.8504	960663.1466	24.4507	-0.0584	C3-L3	2633+27.8317	-19.3108	5256.4410	5256.8729	680570.7724	960689.3998	24.4444	-0.0554
A3-D4	2633+12.8370	-61.5000	5258.9595	5259.4158	680538.8580	960657.8326	36.6738	-0.0571	C3-L4	2633+39.9228	-19.1471	5256.3364	5256.7927	680581.9259	960684.4016	36.6666	-0.0540
A3-D5	2633+24.6530	-61.5000	5258.8168	5259.2815	680549.8998	960652.5918	48.8962	-0.0557	C3-L5	2633+52.0155	-19.0661	5256.2305	5256.6951	680593.0794	960679.4034	48.8888	-0.0526
A3-D6	2633+36.4689	-61.5000	5258.6683	5259.1259	680560.9759	960647.4241	61.1186	-0.0544	C3-L6	2633+64.1088	-19.0678	5256.1228	5256.5804	680604.2329	960674.4052	61.1110	-0.0513
A3-D7	2633+48.2850	-61.5000	5258.5140	5258.9487	680572.0861	960642.3296	73.3411	-0.0531	C3-L7	2633+76.2015	-19.1521	5256.0132	5256.4479	680615.3864	960669.4070	73.3332	-0.0499
A3-D8	2633+60.1020	-61.5000	5258.3538	5258.7533	680583.2305	960637.3083	85.5645	-0.0517	C3-L8	2633+88.2926	-19.3192	5255.9012	5256.3008	680626.5399	960664.4087	85.5555	-0.0485
A3-D9	2633+71.9203	-61.5000	5258.1877	5258.5393	680594.4092	960632.3602	97.7893	-0.0504	C3-L9	2634+00.3808	-19.5688	5255.7866	5256.1382	680637.6934	960659.4105	97.7777	-0.0471
A3-D10	2633+83.7405	-61.4999	5258.0157	5258.3115	680605.6221	960627.4854	110.0161	-0.0490	C3-L10	2634+12.4651	-19.9010	5255.6690	5255.9648	680648.8469	960654.4123	109.9999	-0.0458
A3-L1	2632+77.2619	-57.2042	5259.0272	5259.3732	680507.7580	960677.8874	0.0000	-0.0600	C3-R1	2633+03.4181	-11.8895	5256.1841	5256.5302	680551.7370	960706.6968	0.0000	-0.0581
A3-L2	2632+89.1023	-56.8897	5258.9527	5259.3467	680518.8300	960672.7113	12.2222	-0.0598	C3-R2	2633+15.5563	-11.5592	5256.0919	5256.4858	680562.8905	960701.6985	12.2223	-0.0568
A3-L3	2633+00.9463	-56.6561	5258.8141	5259.2460	680529.9021	960667.5352	24.4444	-0.0584	C3-R3	2633+27.6984	-11.3119	5255.9989	5256.4308	680574.0440	960696.7003	24.4445	-0.0554
A3-L4	2633+12.7927	-56.5036	5258.6748	5259.1311	680540.9741	960662.3590	36.6666	-0.0571	C3-R4	2633+39.8432	-11.1475	5255.9049	5256.3612	680585.1975	960691.7021	36.6667	-0.0540
A3-L5	2633+24.6406	-56.4319	5258.5345	5258.9992	680552.0462	960657.1829	48.8889	-0.0557	C3-R5	2633+51.9898	-11.0661	5255.8096	5256.2742	680596.3510	960686.7039	48.8889	-0.0526
A3-L6	2633+36.4888	-56.4414	5258.3929	5258.8505	680563.1182	960652.0067	61.1111	-0.0544	C3-R6	2633+64.1368	-11.0679	5255.7125	5256.1700	680607.5045	960681.7056	61.1112	-0.0513
A3-L7	2633+48.3364	-56.5317	5258.2497	5258.6844	680574.1903	960646.8306	73.3333	-0.0531	C3-R7	2633+76.2833	-11.1526	5255.6134	5256.0481	680618.6580	960676.7074	73.3334	-0.0499
A3-L8	2633+60.1823	-56.7031	5258.1046	5258.5041	680585.2623	960641.6545	85.5555	-0.0517	C3-R8	2633+88.4281	-11.3203	5255.5119	5255.9114	680629.8115	960671.7092	85.5556	-0.0485
A3-L9	2633+72.0256	-56.9554	5257.9573	5258.3089	680596.3344	960636.4783	97.7778	-0.0504	C3-R9	2634+00.5700	-11.5710	5255.4077	5255.7593	680640.9650	960666.7110	97.7778	-0.0471
A3-L10	2633+83.8650	-57.2886	5257.8074	5258.1032	680607.4064	960631.3022	109.9999	-0.0490	C3-R10	2634+12.7080	-11.9047	5255.3004	5255.5963	680652.1185	960661.7128	110.0000	-0.0458
A3-R1	2632+77.0358	-49.2075	5258.5481	5258.8942	680511.1460	960685.1346	0.0000	-0.0600	D3-L1	2633+17.4431	-1.2248	5255.4955	5255.8416	680569.0431	960710.2150	0.0000	-0.0566
A3-R2	2632+88.9277	-48.8917	5258.4763	5258.8702	680522.2180	960679.9585	12.2222	-0.0598	D3-L2	2633+29.6532	-0.8770	5255.4099	5255.8038	680580.2426	960705.3207	12.2222	-0.0552
A3-R3	2633+00.8233	-48.6572	5258.3479	5258.7798	680533.2901	960674.7823	24.4445	-0.0584	D3-L3	2633+41.8675	-0.6125	5255.3235	5255.7554	680591.4421	960700.4265	24.4444	-0.0538
A3-R4	2633+12.7212	-48.5039	5258.2188	5258.6751	680544.3621	960669.6062	36.6666	-0.0571	D3-L4	2633+54.0849	-0.4316	5255.2360	5255.6923	680602.6417	960695.5322	36.6667	-0.0524
A3-R5	2633+24.6207	-48.4320	5258.0888	5258.5534	680555.4342	960664.4300	48.8889	-0.0557	D3-L5	2633+66.3042	-0.3342	5255.1469	5255.6116	680613.8412	960690.6379	48.8890	-0.0510
A3-R6	2633+36.5206	-48.4414	5257.9574	5258.4149	680566.5062	960659.2539	61.1111	-0.0544	D3-L6	2633+78.5242	-0.3202	5255.0560	5255.5136	680625.0407	960685.7437	61.1112	-0.0496
A3-R7	2633+48.4198	-48.5322	5257.8243	5258.2590	680577.5783	960654.0778	73.3333	-0.0530	D3-L7	2633+90.7438	-0.3899	5254.9629	5255.3976	680636.2402	960680.8494	73.3334	-0.0482
A3-R8	2633+60.3173	-48.7043	5257.6893	5258.0888	680588.6503	960648.9016	85.5555	-0.0517	D3-L8	2634+02.9619	-0.5430	5254.8673	5255.2668	680647.4397	960675.9552	85.5556	-0.0469
A3-R9	2633+72.2121	-48.9577	5257.5520	5257.9037	680599.7224	960643.7255	97.7778	-0.0503	D3-L9	2634+15.1773	-0.7797	5254.7688	5255.1204	680658.6392	960671.0609	97.7778	-0.0455
A3-R10	2633+84.1030	-49.2924	5257.4122	5257.7080	680610.7944	960638.5493	110.0000	-0.0490	D3-L10	2634+27.3889	-1.0997	5254.6671	5254.9629	680669.8387	960666.1667	110.0000	-0.0441
B3-L1	2632+90.2725	-38.5456	5257.8466	5258.1927	680528.0409	960688.6207	0.0000	-0.0596	D3-R1	2633+17.1871	6.7711	5255.0443	5255.3904	680572.2466	960717.5456	0.0000	-0.0566
B3-L2	2633+02.2338	-38.2274	5257.7261	5258.1200	680539.1520	960683.5290	12.2222	-0.0583	D3-R2	2633+29.4521	7.1205	5254.9696	5255.3635	680583.4462	960712.6513	12.2223	-0.0552
B3-L3	2633+14.1989	-37.9911	5257.6050	5258.0370	680550.2632	960678.4372	24.4445	-0.0569	D3-R3	2633+41.7212	7.3861	5254.8941	5255.3260	680594.6457	960707.7570	24.4446	-0.0538
B3-L4	2633+26.1663	-37.8365	5257.4832	5257.9395	680561.3743	960673.3455	36.6667	-0.0556	D3-R4	2633+53.9934	7.5679	5254.8173	5255.2736	680605.8452	960702.8628	36.6667	-0.0524
B3-L5	2633+38.1353	-37.7637	5257.3601	5257.8248	680572.4854	960668.2538	48.8889	-0.0542	D3-R5	2633+66.2676	7.6658	5254.7390	5255.2037	680617.0447	960697.9685	48.8890	-0.0510
B3-L6	2633+50.1047	-37.7727	5257.2356	5257.6932	680583.5965	960663.1621	61.1111	-0.0529	D3-R6	2633+78.5425	7.6798	5254.6588	5255.1164	680628.2442	960693.0743	61.1112	-0.0496
B3-L7	2633+62.0734	-37.8636	5257.1093	5257.5440	680594.7076	960658.0703	73.3333	-0.0515	D3-R7	2633+90.8170	7.6098	5254.5764	5255.0112	680639.4437	960688.1800	73.3334	-0.0482
B3-L8	2633+74.0405	-38.0362	5256.9808	5257.3803	680605.8188	960652.9786	85.5556	-0.0501	D3-R8	2634+03.0900	7.4560	5254.4915	5254.8910	680650.6432	960683.2858	85.5556	-0.0468
B3-L9	2633+86.0047	-38.2907	5256.8499	5257.2015	680616.9299	960647.8869	97.7778	-0.0488	D3-R9	2634+15.3602	7.2183	5254.4036	5254.7552	680661.8427	960678.3915	97.7778	-0.0455
B3-L10	2633+97.9651	-38.6269	5256.7162	5257.0121	680628.0410	960642.7951	110.0000	-0.0474	D3-R10	2634+27.6267	6.8968	5254.3125	5254.6083	680673.0422	960673.4973	110.0000	-0.0441
B3-R1	2632+90.0416	-30.5491	5257.3714	5257.7174	680531.3737	960695.8934	0.0000	-0.0597	D3-D1	2633+17.0023	12.5000	5254.7208	5255.0669	680574.5419	960722.7978	0.0000	-0.0566
B3-R2	2633+02.0554	-30.2295	5257.2613	5257.6552	680542.4848	960690.8017	12.2222	-0.0583	D3-D2	2633+29.3157	12.5000	5254.6733	5255.0672	680585.6010	960717.5822	12.2273	-0.0552
B3-R3	2633+14.0729	-29.9921	5257.1507	5257.5826	680553.5959	960685.7100	24.4444	-0.0569	D3-D3	2633+41.6269	12.5000	5254.6194	5255.0513	680596.6938	960712.4438	24.4524	-0.0538
B3-R4	2633+26.0931	-29.8369	5257.0393	5257.4956	680564.7070	960680.6182	36.6666	-0.0556	D3-D4	2633+53.9366	12.5000	5254.5591	5255.0154	680607.8203	960707.3825	36.6760	-0.0524
B3-R5	2633+38.1148	-29.7637	5256.9266	5257.3913	680575.8182	960675.5265	48.8889	-0.0542	D3-D5	2633+66.2453	12.5000	5254.4925	5254.9572	680618.9805	960702.3983	48.8986	-0.0510
B3-R6	2633+50.1369	-29.7728	5256.8125	5257.2700	680586.9293	960670.4348	61.1111	-0.0528	D3-D6	2633+78.5536	12.5000	5254.4196	5254.8771	680630.1744	960697.4912	61.1208	-0.0496
B3-R7	2633+62.1583	-29.8640	5256.6965	5257.1312	680598.0404	960665.3431	73.3333	-0.0515	D3-D7	2633+90.8621	12.5000	5254.3403	5254.7750	680641.4020	960692.6612	73.3432	-0.0482
B3-R8	2633+74.1779	-30.0375	5256.5783	5256.9778	680609.1515	960660.2513	85.5555	-0.0501	D3-D8	2634+03.1714	12.5000	5254.2546	5254.6541	680652.6633	960687.9083	85.5665	-0.0468
B3-R9	2633+86.1948	-30.2930	5256.4576	5256.8093	680620.2627	960655.1596	97.7778	-0.0488	D3-D9	2634+15.4820	12.5001	5254.1626	5254.5142	680663.9583	960683.2326	97.7910	-0.04

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 4SB																	
A4-D1	2633+86.1313	-61.5000	5257.9802	5258.2659	680607.8939	960626.5084	0.0000	-0.0488	C4-L1	2634+14.8023	-19.8919	5255.6421	5255.9278	680651.0360	960653.5220	0.0000	-0.0455
A4-D2	2633+99.1866	-61.5000	5257.7821	5257.9953	680620.3227	960621.2270	13.5044	-0.0473	C4-L2	2634+28.1510	-19.5593	5255.4718	5255.6850	680663.6656	960648.7530	13.5000	-0.0440
A4-D3	2634+12.2400	-61.5000	5257.5769	5257.7144	680632.7878	960616.0373	27.0067	-0.0458	C4-L3	2634+41.5039	-19.3275	5255.2994	5255.4368	680676.2952	960643.9840	27.0000	-0.0425
A4-D4	2634+25.2919	-61.5000	5257.3647	5257.4305	680645.2891	960610.9393	40.5075	-0.0443	C4-L4	2634+54.8594	-19.1964	5255.1242	5255.1900	680688.9248	960639.2150	40.5000	-0.0410
A4-D5	2634+38.3431	-61.5000	5257.1452	5257.1529	680657.8266	960605.9330	54.0076	-0.0428	C4-L5	2634+68.2161	-19.1662	5254.9459	5254.9536	680701.5544	960634.4461	54.0000	-0.0395
A4-D6	2634+51.3943	-61.5000	5256.9187	5256.8962	680670.4003	960601.0183	67.5076	-0.0414	C4-L6	2634+81.5725	-19.2368	5254.7640	5254.7416	680714.1840	960629.6771	67.5000	-0.0379
A4-D7	2634+64.4461	-61.5000	5256.6849	5256.6497	680683.0102	960596.1953	81.0084	-0.0399	C4-L7	2634+94.9271	-19.4083	5254.5782	5254.5429	680726.8136	960624.9081	81.0000	-0.0364
A4-D8	2634+77.4994	-61.5000	5256.4441	5256.4094	680695.6563	960591.4639	94.5106	-0.0384	C4-L8	2635+08.3844	-19.6544	5254.3852	5254.3506	680739.4432	960620.1391	94.5000	-0.0349
A4-D9	2634+90.5548	-61.5000	5256.1960	5256.1707	680708.3387	960586.8243	108.0150	-0.0369	C4-L9	2635+21.8821	-19.9044	5254.1833	5254.1580	680752.0728	960615.3702	108.0000	-0.0333
A4-L1	2633+86.0121	-57.2903	5257.7766	5258.0623	680609.4414	960630.4253	0.0000	-0.0488	C4-R1	2634+14.5768	-11.8952	5255.2805	5255.5662	680653.8620	960661.0062	0.0000	-0.0455
A4-L2	2633+99.0899	-56.9445	5257.5682	5257.7813	680621.9970	960625.4648	13.5000	-0.0473	C4-R2	2634+27.9848	-11.5611	5255.1218	5255.3349	680666.4916	960656.2372	13.5000	-0.0440
A4-L3	2634+12.1720	-56.6976	5257.3580	5257.4955	680634.5526	960620.5043	27.0000	-0.0458	C4-R3	2634+41.3969	-11.3282	5254.9607	5255.0982	680679.1212	960651.4682	27.0000	-0.0425
A4-L4	2634+25.2568	-56.5493	5257.1458	5257.2116	680647.1082	960615.5438	40.5000	-0.0443	C4-R4	2634+54.8118	-11.1965	5254.7970	5254.8628	680691.7508	960646.6993	40.5000	-0.0410
A4-L5	2634+38.3430	-56.4999	5256.9310	5256.9387	680659.6638	960610.5833	53.9999	-0.0428	C4-R5	2634+68.2279	-11.1662	5254.6301	5254.6378	680704.3804	960641.9303	54.0000	-0.0395
A4-L6	2634+51.4293	-56.5494	5256.7133	5256.6909	680672.2194	960605.6227	67.5000	-0.0414	C4-R6	2634+81.6437	-11.2372	5254.4596	5254.4372	680717.0100	960637.1613	67.5000	-0.0379
A4-L7	2634+64.5141	-56.6976	5256.4922	5256.4570	680684.7750	960600.6622	81.0000	-0.0399	C4-R7	2634+95.0577	-11.4094	5254.2851	5254.2498	680729.6396	960632.3923	81.0000	-0.0364
A4-L8	2634+77.5961	-56.9446	5256.2674	5256.2328	680697.3306	960595.7017	94.4999	-0.0384	C4-R8	2635+08.5325	-11.6557	5254.1040	5254.0694	680742.2692	960627.6233	94.5000	-0.0349
A4-L9	2634+90.6739	-57.2903	5256.0383	5256.0130	680709.8862	960590.7412	107.9999	-0.0369	C4-R9	2635+22.0302	-11.9057	5253.9144	5253.8891	680754.8988	960622.8544	108.0000	-0.0333
A4-R1	2633+85.7842	-49.2937	5257.3896	5257.6753	680612.3809	960637.8657	0.0000	-0.0488	D4-L1	2634+29.8015	-1.0910	5254.6430	5254.9287	680672.0823	960665.2755	0.0000	-0.0438
A4-R2	2633+98.9189	-48.9465	5257.1923	5257.4054	680624.9365	960632.9052	13.5000	-0.0473	D4-L2	2634+43.2911	-0.7902	5254.4933	5254.7064	680684.7406	960660.5833	13.5000	-0.0423
A4-R3	2634+12.0580	-48.6984	5256.9932	5257.1307	680637.4922	960627.9447	27.0001	-0.0458	D4-L3	2634+56.7844	-0.5912	5254.3409	5254.4784	680697.3989	960655.8911	26.9999	-0.0408
A4-R4	2634+25.1998	-48.5496	5256.7920	5256.8579	680650.0478	960622.9841	40.5001	-0.0443	D4-L4	2634+70.2801	-0.4940	5254.1855	5254.2514	680710.0573	960651.1989	40.5000	-0.0392
A4-R5	2634+38.3431	-48.5000	5256.5883	5256.5960	680662.6034	960618.0236	54.0001	-0.0428	D4-L5	2634+83.7763	-0.4988	5254.0267	5254.0343	680722.7156	960646.5067	54.0000	-0.0377
A4-R6	2634+51.4863	-48.5496	5256.3815	5256.3591	680675.1590	960613.0631	67.5001	-0.0414	D4-L6	2634+97.2718	-0.6055	5253.8638	5253.8414	680735.3739	960641.8145	67.5000	-0.0362
A4-R7	2634+64.6281	-48.6984	5256.1714	5256.1361	680687.7146	960608.1026	81.0001	-0.0399	D4-L7	2635+10.7703	-0.7730	5253.6950	5253.6598	680748.0323	960637.1223	81.0000	-0.0346
A4-R8	2634+77.7671	-48.9465	5255.9574	5255.9228	680700.2702	960603.1420	94.5001	-0.0384	D4-L8	2635+24.2692	-0.9410	5253.5181	5253.4835	680760.6906	960632.4301	94.5000	-0.0331
A4-R9	2634+90.9018	-49.2938	5255.7391	5255.7138	680712.8258	960598.1815	108.0001	-0.0369	D4-L9	2635+37.7682	-1.1090	5253.3331	5253.3078	680773.3489	960627.7379	108.0000	-0.0315
B4-L1	2634+00.2119	-38.6216	5256.6871	5256.9728	680630.1588	960641.9099	0.0000	-0.0472	D4-R1	2634+29.5922	6.9062	5254.2945	5254.5802	680674.8628	960672.7767	0.0000	-0.0438
B4-L2	2634+13.4233	-38.2749	5256.4973	5256.7105	680642.7539	960637.0507	13.4999	-0.0457	D4-R2	2634+43.1424	7.2084	5254.1565	5254.3696	680687.5212	960668.0845	13.5001	-0.0423
B4-L3	2634+26.6391	-38.0279	5256.3056	5256.4430	680655.3491	960632.1915	27.0000	-0.0442	D4-R3	2634+56.6964	7.4083	5254.0158	5254.1533	680700.1795	960663.3923	27.0000	-0.0408
B4-L4	2634+39.8577	-37.8807	5256.1114	5256.1773	680667.9442	960627.3323	40.4999	-0.0427	D4-R4	2634+70.2526	7.5059	5253.8721	5253.9379	680712.8378	960658.7001	40.5000	-0.0392
B4-L5	2634+53.0778	-37.8332	5255.9145	5255.9222	680680.5394	960622.4731	53.9999	-0.0412	D4-R5	2634+83.8096	7.5011	5253.7248	5253.7325	680725.4962	960654.0079	54.0001	-0.0377
B4-L6	2634+66.2978	-37.8856	5255.7144	5255.6920	680693.1346	960617.6139	67.5000	-0.0397	D4-R6	2634+97.3656	7.3939	5253.5735	5253.5510	680738.1545	960649.3157	67.5001	-0.0361
B4-L7	2634+79.5163	-38.0378	5255.5106	5255.4754	680705.7297	960612.7547	80.9999	-0.0382	D4-R7	2635+10.8698	7.2264	5253.4169	5253.3817	680750.8128	960644.6235	81.0000	-0.0346
B4-L8	2634+92.7319	-38.2898	5255.3028	5255.2681	680718.3249	960607.8955	94.5000	-0.0367	D4-R8	2635+24.3686	7.0584	5253.2523	5253.2177	680763.4711	960639.9313	94.5000	-0.0331
B4-L9	2635+06.1008	-38.6264	5255.0869	5255.0616	680730.9201	960603.0363	108.0000	-0.0351	D4-R9	2635+37.8677	6.8904	5253.0795	5253.0542	680776.1295	960635.2392	108.0000	-0.0315
B4-R1	2633+99.9808	-30.6251	5256.3127	5256.5984	680633.0383	960649.3737	0.0000	-0.0472	D4-D1	2634+29.4448	12.5000	5254.0505	5254.3363	680676.8077	960678.0235	0.0000	-0.0439
B4-R2	2634+13.2503	-30.2768	5256.1342	5256.3473	680645.6334	960644.5145	13.4999	-0.0457	D4-D2	2634+43.0433	12.5000	5253.9336	5254.1467	680689.3607	960673.0470	13.5035	-0.0423
B4-R3	2634+26.5242	-30.0287	5255.9537	5256.0912	680658.2286	960639.6553	27.0000	-0.0442	D4-D3	2634+56.6399	12.5000	5253.8088	5253.9463	680701.9493	960668.1668	27.0049	-0.0408
B4-R4	2634+39.8011	-29.8808	5255.7709	5255.8367	680670.8238	960634.7961	40.5000	-0.0427	D4-D4	2634+70.2353	12.5000	5253.6764	5253.7422	680714.5736	960663.3829	40.5052	-0.0392
B4-R5	2634+53.0792	-29.8332	5255.5851	5255.5928	680683.4189	960629.9369	53.9999	-0.0412	D4-D5	2634+83.8303	12.5000	5253.5362	5253.5439	680727.2336	960658.6952	54.0052	-0.0377
B4-R6	2634+66.3574	-29.8859	5255.3962	5255.3737	680696.0141	960625.0777	67.5000	-0.0397	D4-D6	2634+97.4259	12.5000	5253.3882	5253.3658	680739.9293	960654.1038	67.5057	-0.0361
B4-R7	2634+79.6342	-30.0387	5255.2035	5255.1682	680708.6093	960620.2185	81.0000	-0.0382	D4-D7	2635+10.9355	12.5000	5253.2337	5253.1984	680752.6459	960649.5687	81.0067	-0.0346
B4-R8	2634+92.9078	-30.2918	5255.0067	5254.9721	680721.2044	960615.3593	94.5000	-0.0367	D4-D8	2635+24.4365	12.5000	5253.0716	5253.0370	680765.3626	960645.0341	94.5077	-0.0331
B4-R9	2635+06.3061	-30.6290	5254.8024	5254.7771	680733.7996	960610.5001	108.0000	-0.0351	D4-D9	2635+37.9376	12.5000	5252.9018	5252.8765	680778.0794	960640.4994	108.0089	-0.0315

NOTES:
1. For Notes See Bridge Deck Elevations I Sheet.

Print Date: 1/7/2011	Sheet Revisions			 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE BRIDGE DECK ELEVATIONS VI			Project No./Code BR 0252-407 17783 Sheet Number 154 C
File Name: 16311FBE_PH2_53_Deck_ElevVI.dgn	Date:	Comments	Init.			Designer: K. Montgomery	Structure Numbers	F-16-XS	
Horiz. Scale: 1:1	Vert. Scale: As Noted	1/3/2011	Rev. 2 (reissued)	MK	Detailer: S. Fall				
Unit Information	Unit Leader Initials	1/10/2011	Rev. 3 (reissued)	MK	Sheet Subset: Bridge	Subset Sheets: B53 of 57			
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222									

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PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 LEFT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 5SB																	
A5-D1	2634+92.7683	-61.4999	5256.1532	5256.1299	680710.4923	960586.0469	0.0000	-0.0367	C5-L1	2635+24.3029	-19.9184	5254.1452	5254.1219	680754.3482	960614.5438	0.0000	-0.0331
A5-D2	2635+03.8211	-61.5000	5255.9363	5255.9256	680721.0901	960582.2571	11.2550	-0.0354	C5-L2	2635+35.5576	-19.8288	5253.9598	5253.9491	680764.9792	960610.8480	11.2551	-0.0318
A5-D3	2635+15.0761	-61.5000	5255.7098	5255.7116	680731.6913	960578.4769	22.5101	-0.0341	C5-L3	2635+46.8123	-19.7393	5253.7692	5253.7710	680775.6102	960607.1522	22.5102	-0.0305
A5-D4	2635+26.3311	-61.5000	5255.4781	5255.4898	680742.2925	960574.6966	33.7651	-0.0328	C5-L4	2635+58.0670	-19.6497	5253.5736	5253.5853	680786.2411	960603.4564	33.7652	-0.0292
A5-D5	2635+37.5861	-61.5000	5255.2410	5255.2582	680752.8937	960570.9163	45.0202	-0.0315	C5-L5	2635+69.3217	-19.5601	5253.3729	5253.3901	680796.8721	960599.7606	45.0203	-0.0279
A5-D6	2635+48.8412	-61.5000	5254.9987	5255.0170	680763.4948	960567.1361	56.2751	-0.0303	C5-L6	2635+80.5763	-19.4706	5253.1672	5253.1855	680807.5030	960596.0648	56.2753	-0.0266
A5-D7	2635+60.0962	-61.5000	5254.7510	5254.7666	680774.0960	960563.3558	67.5301	-0.0290	C5-L7	2635+91.8310	-19.3810	5252.9563	5252.9719	680818.1340	960592.3690	67.5304	-0.0254
A5-D8	2635+71.3512	-61.5000	5254.4980	5254.5078	680784.6972	960559.5755	78.7852	-0.0277	C5-L8	2636+03.0857	-19.2915	5252.7408	5252.7506	680828.7649	960588.6732	78.7854	-0.0241
A5-D9	2635+82.6062	-61.5000	5254.2397	5254.2428	680795.2984	960555.7953	90.0402	-0.0264	C5-L9	2636+14.3404	-19.2019	5252.5246	5252.5277	680839.3958	960584.9774	90.0404	-0.0228
A5-L1	2634+92.7205	-57.3088	5256.0004	5255.9771	680711.8666	960590.0066	0.0000	-0.0367	C5-R1	2635+24.2392	-11.9187	5253.8816	5253.8583	680756.9752	960622.1002	0.0000	-0.0331
A5-L2	2635+03.7848	-57.2035	5255.7848	5255.7742	680722.4990	960586.3162	11.2546	-0.0354	C5-R2	2635+36.3588	-11.8223	5253.6928	5253.6822	680768.4231	960618.1204	12.1200	-0.0317
A5-L3	2635+15.0390	-57.1084	5255.5607	5255.5625	680733.1314	960582.6258	22.5093	-0.0341	C5-R3	2635+48.4784	-11.7258	5253.4981	5253.5000	680779.8710	960614.1406	24.2399	-0.0303
A5-L4	2635+26.2932	-57.0132	5255.3315	5255.3432	680743.7638	960578.9355	33.7639	-0.0328	C5-R4	2635+60.5979	-11.6294	5253.2976	5253.3093	680791.3189	960610.1608	36.3599	-0.0289
A5-L5	2635+37.5474	-56.9181	5255.0973	5255.1145	680754.3961	960575.2451	45.0184	-0.0316	C5-R5	2635+72.7175	-11.5329	5253.0911	5253.1083	680802.7668	960606.1810	48.4798	-0.0275
A5-L6	2635+48.8017	-56.8229	5254.8580	5254.8763	680765.0285	960571.5547	56.2731	-0.0303	C5-R6	2635+84.8371	-11.4365	5252.8787	5252.8971	680814.2147	960602.2012	60.5998	-0.0261
A5-L7	2635+60.0559	-56.7278	5254.6136	5254.6292	680775.6609	960567.8643	67.5277	-0.0290	C5-R7	2635+96.9567	-11.3400	5252.6605	5252.6761	680825.6626	960598.2214	72.7197	-0.0248
A5-L8	2635+71.3101	-56.6326	5254.3641	5254.3739	680786.2932	960564.1739	78.7823	-0.0277	C5-R8	2636+09.0762	-11.2436	5252.4386	5252.4484	680837.1105	960594.2416	84.8397	-0.0234
A5-L9	2635+82.5643	-56.5375	5254.1096	5254.1127	680796.9256	960560.4835	90.0369	-0.0264	C5-R9	2636+21.1958	-11.1471	5252.2170	5252.2202	680848.5584	960590.2618	96.9596	-0.0220
A5-R1	2634+92.6289	-49.3094	5255.7087	5255.6854	680714.4898	960597.5643	0.0000	-0.0367	D5-L1	2635+40.1846	-1.1178	5253.2984	5253.2751	680775.6220	960626.9180	0.0000	-0.0313
A5-R2	2635+04.5829	-49.1965	5255.4865	5255.4759	680725.9401	960593.5900	12.1204	-0.0353	D5-L2	2635+51.4406	-1.0442	5253.1303	5253.1196	680786.2489	960623.2067	11.2563	-0.0300
A5-R3	2635+16.7029	-49.0940	5255.2557	5255.2575	680737.3904	960589.6158	24.2408	-0.0339	D5-L3	2635+62.6967	-0.9706	5252.9570	5252.9588	680796.8757	960619.4955	22.5125	-0.0287
A5-R4	2635+28.8228	-48.9916	5255.0189	5255.0306	680748.8407	960585.6415	36.3612	-0.0326	D5-L4	2635+73.9527	-0.8969	5252.7786	5252.7903	680807.5026	960615.7842	33.7688	-0.0274
A5-R5	2635+40.9428	-48.8891	5254.7763	5254.7935	680760.2910	960581.6672	48.4816	-0.0312	D5-L5	2635+85.2088	-0.8233	5252.5951	5252.6123	680818.1295	960612.0729	45.0252	-0.0261
A5-R6	2635+53.0627	-48.7866	5254.5278	5254.5461	680771.7413	960577.6929	60.6020	-0.0298	D5-L6	2635+96.4648	-0.7497	5252.4065	5252.4248	680828.7563	960608.3616	56.2814	-0.0248
A5-R7	2635+65.1827	-48.6841	5254.2734	5254.2890	680783.1915	960573.7187	72.7223	-0.0284	D5-L7	2636+07.7208	-0.6761	5252.2145	5252.2301	680839.3832	960604.6504	67.5377	-0.0235
A5-R8	2635+77.3026	-48.5817	5254.0131	5254.0230	680794.6418	960569.7444	84.8427	-0.0270	D5-L8	2636+18.9769	-0.6024	5252.0226	5252.0324	680850.0100	960600.9391	78.7939	-0.0222
A5-R9	2635+89.4226	-48.4792	5253.7470	5253.7502	680806.0921	960565.7701	96.9632	-0.0256	D5-L9	2636+30.2329	-0.5288	5251.8309	5251.8340	680860.6369	960597.2278	90.0502	-0.0210
B5-L1	2635+08.4183	-38.6467	5255.0472	5255.0239	680733.0961	960602.2387	0.0000	-0.0349	D5-R1	2635+40.1323	6.8821	5253.0491	5253.0258	680778.2596	960634.4707	0.0000	-0.0313
B5-L2	2635+19.6724	-38.5498	5254.8448	5254.8341	680743.7289	960598.5500	11.2545	-0.0336	D5-R2	2635+52.2508	6.9614	5252.8790	5252.8683	680789.7007	960630.4751	12.1187	-0.0299
B5-L3	2635+30.9264	-38.4529	5254.6373	5254.6391	680754.3617	960594.8614	22.5089	-0.0323	D5-R3	2635+64.3692	7.0406	5252.7029	5252.7047	680801.1418	960626.4794	24.2375	-0.0285
B5-L4	2635+42.1805	-38.3560	5254.4247	5254.4364	680764.9946	960591.1727	33.7635	-0.0310	D5-R4	2635+76.4877	7.1199	5252.5209	5252.5326	680812.5829	960622.4838	36.3562	-0.0271
B5-L5	2635+53.4346	-38.2591	5254.2243	5254.2243	680775.6274	960587.4840	45.0179	-0.0297	D5-R5	2635+88.6061	7.1991	5252.3330	5252.3502	680824.0239	960618.4882	48.4749	-0.0257
B5-L6	2635+64.6886	-38.1622	5253.9844	5254.0027	680786.2602	960583.7953	56.2724	-0.0285	D5-R6	2636+00.7246	7.2784	5252.1392	5252.1575	680835.4650	960614.4926	60.5936	-0.0243
B5-L7	2635+75.9427	-38.0653	5253.7566	5253.7722	680796.8930	960580.1067	67.5268	-0.0272	D5-R7	2636+12.8430	7.3576	5251.9435	5251.9591	680846.9061	960610.4969	72.7123	-0.0229
B5-L8	2635+87.1967	-37.9684	5253.5238	5253.5336	680807.5258	960576.4180	78.7813	-0.0259	D5-R8	2636+24.9615	7.4369	5251.7481	5251.7579	680858.3472	960606.5013	84.8311	-0.0216
B5-L9	2635+98.4508	-37.8715	5253.2860	5253.2891	680818.1587	960572.7293	90.0358	-0.0246	D5-R9	2636+37.0799	7.5161	5251.5529	5251.5560	680869.7882	960602.5057	96.9497	-0.0202
B5-R1	2635+08.3494	-30.6470	5254.7693	5254.7460	680735.7181	960609.7968	0.0000	-0.0349	D5-D1	2635+40.0955	12.5000	5252.8740	5252.8507	680780.1119	960639.7746	0.0000	-0.0313
B5-R2	2635+20.4695	-30.5427	5254.5622	5254.5515	680747.1692	960605.8243	12.1206	-0.0335	D5-D2	2635+52.2145	12.5000	5252.7140	5252.7034	680791.5269	960635.7042	12.1190	-0.0299
B5-R3	2635+32.5896	-30.4383	5254.3492	5254.3510	680758.6202	960601.8518	24.2411	-0.0321	D5-D3	2635+64.3335	12.5000	5252.5479	5252.5497	680802.9418	960631.6337	24.2380	-0.0285
B5-R4	2635+44.7096	-30.3340	5254.1303	5254.1420	680770.0712	960597.8792	36.3616	-0.0307	D5-D4	2635+76.4524	12.5000	5252.3756	5252.3873	680814.3568	960627.5633	36.3570	-0.0271
B5-R5	2635+56.8297	-30.2296	5253.9056	5253.9228	680781.5223	960593.9067	48.4822	-0.0294	D5-D5	2635+88.5714	12.5000	5252.1972	5252.2143	680825.7717	960623.4928	48.4759	-0.0257
B5-R6	2635+68.9498	-30.1253	5253.6750	5253.6934	680792.9733	960589.9342	60.6026	-0.0280	D5-D6	2636+00.6904	12.5000	5252.0127	5252.0310	680837.1867	960619.4224	60.5949	-0.0243
B5-R7	2635+81.0699	-30.0209	5253.4386	5253.4541	680804.4243	960585.9617	72.7231	-0.0266	D5-D7	2636+12.8094	12.5000	5251.8260	5251.8416	680848.6016	960615.3519	72.7139	-0.0230
B5-R8	2635+93.1899	-29.9166	5253.1962	5253.2060	680815.8754	960581.9891	84.8437	-0.0252	D5-D8	2636+24.9283	12.5000	5251.6394	5251.6493	680860.0166	960611.2815	84.8329	-0.0216
B5-R9	2636+05.3100	-29.8122	5252.9490	5252.9521	680827.3264	960578.0166	96.9642	-0.0238	D5-D9	2636+37.0473	12.5000	5251.4528	5251.4560	680871.4315	960607.2110	96.9518	-0.0202

NOTES:
1. For Notes See Bridge Deck Elevations I Sheet.

Print Date: 1/7/2011	Sheet Revisions			 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE BRIDGE DECK ELEVATIONS VII			Project No./Code BR 0252-407 17783 Sheet Number 155 C
File Name: 16311FBE_PH2_54_Deck_ElevVII.dgn	Date:	Comments	Init.			Designer: K. Montgomery	Structure Numbers	F-16-XS	
Horiz. Scale: 1:1	1/3/2011	Rev. 2 (reissued)	MK	Detailer: S. Fall	Subset Sheets: B54 of 57				
Unit Information	1/10/2011	Rev. 3 (reissued)	MK	Sheet Subset: Bridge					
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222									

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CDDT-PDF driver.plt
1/7/2011

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 1NB																	
E1-D1	1630+87.0886	-12.5000	5257.6690	5257.6731	680389.7036	960825.8215	0.0000	-0.0600	G1-L1	1631+11.0198	29.7865	5255.2279	5255.2320	680432.2627	960849.1427	0.0000	-0.0600
E1-D2	1630+99.6331	-12.5000	5257.7224	5257.7425	680400.4084	960819.1124	12.6335	-0.0600	G1-L2	1631+23.8743	30.0785	5255.2521	5255.2721	680443.2121	960842.8286	12.6395	-0.0600
E1-D3	1631+12.1760	-12.5000	5257.7692	5257.8036	680411.1592	960812.4805	25.2653	-0.0600	G1-L3	1631+36.7324	30.2783	5255.2747	5255.3092	680454.1615	960836.5146	25.2790	-0.0600
E1-D4	1631+24.7178	-12.4999	5257.8093	5257.8544	680421.9561	960805.9259	37.8960	-0.0600	G1-L4	1631+49.5929	30.3858	5255.2960	5255.3411	680465.1109	960830.2005	37.9185	-0.0600
E1-D5	1631+37.2591	-12.5000	5257.8427	5257.8928	680432.7989	960799.4485	50.5262	-0.0600	G1-L5	1631+62.4543	30.4011	5255.3157	5255.3658	680476.0603	960823.8864	50.5580	-0.0600
E1-D6	1631+49.8007	-12.5000	5257.8695	5257.9188	680443.6878	960793.0483	63.1568	-0.0600	G1-L6	1631+75.3151	30.3241	5255.3340	5255.3833	680487.0097	960817.5724	63.1975	-0.0600
E1-D7	1631+62.3431	-12.5000	5257.8896	5257.9331	680454.6227	960786.7254	75.7881	-0.0600	G1-L7	1631+88.1742	30.1549	5255.3508	5255.3943	680497.9591	960811.2583	75.8370	-0.0600
E1-D8	1631+74.8870	-12.5000	5257.9031	5257.9356	680465.6036	960780.4797	88.4210	-0.0600	G1-L8	1632+01.0302	29.8935	5255.3662	5255.3987	680508.9086	960804.9443	88.4765	-0.0600
E1-D9	1631+87.4330	-12.4999	5257.9099	5257.9286	680476.6306	960774.3114	101.0560	-0.0600	G1-L9	1632+13.8815	29.5399	5255.3801	5255.3988	680519.8580	960798.6302	101.1160	-0.0600
E1-D10	1631+99.9817	-12.5000	5257.9101	5257.9153	680487.7036	960768.2204	113.6937	-0.0600	G1-L10	1632+26.7269	29.0942	5255.3926	5255.3977	680530.8074	960792.3162	113.7555	-0.0600
E1-L1	1630+86.9595	-7.5443	5257.3711	5257.3751	680392.2407	960830.0805	0.0000	-0.0600	G1-R1	1631+16.4312	37.9229	5254.7581	5254.7622	680441.0331	960853.3200	0.0000	-0.0600
E1-L2	1630+99.5338	-7.2582	5257.4075	5257.4276	680403.0916	960823.6165	12.6303	-0.0600	G1-R2	1631+28.7213	38.1658	5254.7807	5254.8008	680451.4521	960847.3118	12.0272	-0.0600
E1-L3	1631+12.1115	-7.0623	5257.4427	5257.4772	680413.9424	960817.1524	25.2606	-0.0600	G1-R3	1631+41.0143	38.3247	5254.8019	5254.8364	680461.8710	960841.3036	24.0544	-0.0600
E1-L4	1631+24.6914	-6.9566	5257.4766	5257.5217	680424.7932	960810.6883	37.8909	-0.0600	G1-R4	1631+53.3089	38.3998	5254.8218	5254.8670	680472.2900	960835.2955	36.0815	-0.0600
E1-L5	1631+37.2720	-6.9409	5257.5092	5257.5593	680435.6440	960804.2243	50.5212	-0.0600	G1-R5	1631+65.6040	38.3908	5254.8403	5254.8904	680482.7089	960829.2873	48.1087	-0.0600
E1-L6	1631+49.8523	-7.0156	5257.5405	5257.5898	680446.4948	960797.7602	63.1515	-0.0600	G1-R6	1631+77.8984	38.2980	5254.8575	5254.9068	680493.1279	960823.2791	60.1359	-0.0600
E1-L7	1631+62.4308	-7.1803	5257.5706	5257.6141	680457.3456	960791.2962	75.7817	-0.0600	G1-R7	1631+90.1909	38.1214	5254.8733	5254.9167	680503.5469	960817.2710	72.1630	-0.0600
E1-L8	1631+75.0064	-7.4353	5257.5993	5257.6318	680468.1964	960784.8321	88.4120	-0.0600	G1-R8	1632+02.4802	37.8607	5254.8877	5254.9202	680513.9658	960811.2628	84.1902	-0.0600
E1-L9	1631+87.5777	-7.7803	5257.6268	5257.6455	680479.0472	960778.3680	101.0423	-0.0600	G1-R9	1632+14.7653	37.5163	5254.9008	5254.9194	680524.3848	960805.2546	96.2174	-0.0600
E1-L10	1632+00.1435	-8.2154	5257.6530	5257.6581	680489.8980	960771.9040	113.6726	-0.0600	G1-R10	1632+27.0448	37.0881	5254.9125	5254.9177	680534.8038	960799.2465	108.2446	-0.0600
E1-R1	1630+92.0949	0.5857	5256.9060	5256.9100	680400.9272	960834.2178	0.0000	-0.0600	HI-L1	1631+23.5265	48.4517	5254.1486	5254.1527	680452.4087	960858.7381	0.0000	-0.0600
E1-R2	1631+04.1337	0.8250	5256.9405	5256.9605	680411.2677	960828.0577	12.0363	-0.0600	HI-L2	1631+36.5260	48.7474	5254.1661	5254.1862	680463.4089	960852.5031	12.6444	-0.0600
E1-R3	1631+16.1753	0.9821	5256.9737	5257.0082	680421.6083	960821.8976	24.0727	-0.0600	HI-L3	1631+49.5293	48.9498	5254.1820	5254.2165	680474.4092	960846.2681	25.2888	-0.0600
E1-R4	1631+28.2184	1.0570	5257.0058	5257.0510	680431.9489	960815.7375	36.1091	-0.0600	HI-L4	1631+62.5350	49.0589	5254.1964	5254.2415	680485.4094	960840.0331	37.9331	-0.0600
E1-R5	1631+40.2620	1.0496	5257.0367	5257.0868	680442.2895	960809.5774	48.1455	-0.0600	HI-L5	1631+75.5415	49.0747	5254.2092	5254.2592	680496.4096	960833.7981	50.5775	-0.0600
E1-R6	1631+52.3049	0.9598	5257.0665	5257.1158	680452.6300	960803.4173	60.1818	-0.0600	HI-L6	1631+88.5477	48.9971	5254.2204	5254.2697	680507.4099	960827.5631	63.2219	-0.0600
E1-R7	1631+64.3461	0.7879	5257.0950	5257.1384	680462.9706	960797.2572	72.2182	-0.0600	HI-L7	1632+01.5519	48.8262	5254.2301	5254.2736	680518.4101	960821.3281	75.8663	-0.0600
E1-R8	1631+76.3843	0.5338	5257.1223	5257.1547	680473.3112	960791.0971	84.2546	-0.0600	HI-L8	1632+14.5529	48.5621	5254.2382	5254.2707	680529.4104	960815.0931	88.5107	-0.0600
E1-R9	1631+88.4185	0.1974	5257.1483	5257.1670	680483.6518	960784.9370	96.2910	-0.0600	HI-L9	1632+27.5491	48.2046	5254.2448	5254.2635	680540.4106	960808.8581	101.1551	-0.0600
E1-R10	1632+00.4476	-0.2212	5257.1733	5257.1784	680493.9924	960778.7768	108.3274	-0.0600	HI-L10	1632+40.5393	47.7541	5254.2498	5254.2550	680551.4109	960802.6231	113.7995	-0.0600
F1-L1	1630+98.8352	11.1214	5256.3019	5256.3060	680412.2082	960839.5909	0.0000	-0.0600	HI-R1	1631+29.0853	56.5918	5253.6762	5253.6802	680461.2244	960862.9370	0.0000	-0.0600
F1-L2	1631+11.5480	11.4098	5256.3324	5256.3525	680423.1076	960833.2002	12.6348	-0.0600	HI-R2	1631+41.5050	56.8370	5253.6923	5253.7124	680471.6835	960857.0087	12.0224	-0.0600
F1-L3	1631+24.2644	11.6070	5256.3615	5256.3960	680434.0070	960826.8095	25.2696	-0.0600	HI-R3	1631+53.9275	56.9975	5253.7070	5253.7415	680482.1425	960851.0805	24.0446	-0.0600
F1-L4	1631+36.9829	11.7130	5256.3893	5256.4344	680444.9064	960820.4188	37.9044	-0.0600	HI-R4	1631+66.3516	57.0733	5253.7203	5253.7654	680492.6015	960845.1523	36.0669	-0.0600
F1-L5	1631+49.7023	11.7279	5256.4156	5256.4657	680455.8058	960814.0282	50.5391	-0.0600	HI-R5	1631+78.7764	57.0641	5253.7321	5253.7822	680503.0605	960839.2240	48.0891	-0.0600
F1-L6	1631+62.4213	11.6516	5256.4406	5256.4899	680466.7052	960807.6375	63.1739	-0.0600	HI-R6	1631+91.2004	56.9704	5253.7425	5253.7918	680513.5196	960833.2958	60.1115	-0.0600
F1-L7	1631+75.1385	11.4840	5256.4643	5256.5078	680477.6046	960801.2468	75.8087	-0.0600	HI-R7	1632+03.6223	56.7918	5253.7514	5253.7949	680523.9786	960827.3676	72.1337	-0.0600
F1-L8	1631+87.8525	11.2254	5256.4865	5256.5190	680488.5040	960794.8562	88.4434	-0.0600	HI-R8	1632+16.0411	56.5285	5253.7589	5253.7913	680534.4376	960821.4394	84.1559	-0.0600
F1-L9	1632+00.5622	10.8755	5256.5074	5256.5261	680499.4034	960788.4655	101.0782	-0.0600	HI-R9	1632+28.4555	56.1805	5253.7650	5253.7836	680544.8967	960815.5111	96.1783	-0.0600
F1-L10	1632+13.2661	10.4346	5256.5270	5256.5321	680510.3028	960782.0748	113.7130	-0.0600	HI-R10	1632+40.8641	55.7479	5253.7696	5253.7747	680555.3557	960809.5829	108.2006	-0.0600
F1-R1	1631+04.1055	19.2542	5255.8346	5255.8387	680420.9354	960843.7476	0.0000	-0.0600	HI-D1	1631+28.9637	61.5000	5253.3813	5253.3854	680463.6454	960867.2082	0.0000	-0.0600
F1-R2	1631+16.2688	19.4947	5255.8633	5255.8834	680431.3147	960837.6618	12.0319	-0.0600	HI-D2	1631+41.4234	61.5000	5253.4123	5253.4324	680473.9831	960861.0660	12.0248	-0.0600
F1-R3	1631+28.4348	19.6522	5255.8907	5255.9252	680441.6940	960831.5761	24.0638	-0.0600	HI-D3	1631+53.8816	61.5000	5253.4368	5253.4713	680484.3628	960854.9977	24.0482	-0.0600
F1-R4	1631+40.6024	19.7266	5255.9169	5255.9621	680452.0733	960825.4904	36.0956	-0.0600	HI-D4	1631+66.3390	61.5000	5253.4546	5253.4998	680494.7844	960849.0034	36.0707	-0.0600
F1-R5	1631+52.7706	19.7178	5255.9418	5255.9919	680462.4526	960819.4046	48.1275	-0.0600	HI-D5	1631+78.7961	61.5000	5253.4660	5253.5160	680505.2479	960843.0831	48.0930	-0.0600
F1-R6	1631+64.9379	19.6261	5255.9654	5256.0147	680472.8319	960813.3189	60.1594	-0.0600	HI-D6	1631+91.2536	61.5000	5253.4707	5253.5200	680515.7533	960837.2367	60.1156	-0.0600
F1-R7	1631+77.1035	19.4513	5255.9877	5256.0312	680483.2113	960807.2332	72.1913	-0.0600	HI-D7	1632+03.7120	61.5000	5253.4689	5253.5124	680526.3006	960831.4643	72.1392	-0.0600
F1-R8	1631+89.2660	19.1934	5256.0088	5256.0412	680493.5906	960801.1475	84.2232	-0.0600	HI-D8	1632+16.1721	61.5000	5253.4605	5253.4929	680536.8899	960825.7658	84.1644	-0.0600
F1-R9	1632+01.4244	18.8525	5256.0286	5256.0472	680503.9699	960795.0617	96.2551	-0.0600	HI-D9	1632+28.6345	61.5000	5253.4455	5253.4642	680547.5211	960820.1414	96.1917	

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 2NB																	
E2-D1	1632+02.5350	-12.5000	5257.9093	5257.9125	680489.9619	960766.9907	0.0000	-0.0600	G2-L1	1632+29.0964	29.0864	5255.3897	5255.3929	680532.8671	960791.2259	0.0000	-0.0600
E2-D2	1632+14.4548	-12.5000	5257.9020	5257.8970	680500.5282	960761.2934	12.0044	-0.0600	G2-L2	1632+41.2943	29.4186	5255.3485	5255.3434	680543.6637	960785.9883	12.0000	-0.0600
E2-D3	1632+26.3728	-12.5000	5257.8887	5257.8838	680511.1311	960755.6686	24.0069	-0.0600	G2-L3	1632+53.4963	29.6677	5255.3060	5255.3011	680554.4603	960780.7507	23.9999	-0.0600
E2-D4	1632+38.2894	-12.5000	5257.8694	5257.8776	680521.7706	960750.1163	36.0080	-0.0600	G2-L4	1632+65.7013	29.8338	5255.2622	5255.2704	680565.2570	960775.5131	36.0000	-0.0600
E2-D5	1632+50.2051	-12.5000	5257.8441	5257.8885	680532.4466	960744.6365	48.0082	-0.0600	G2-L5	1632+77.9080	29.9167	5255.2518	5255.2962	680576.0536	960770.2755	47.9999	-0.0588
E2-D6	1632+62.1206	-12.5000	5257.8128	5257.9074	680543.1592	960739.2291	60.0082	-0.0600	G2-L6	1632+90.1153	29.9165	5255.2474	5255.3420	680586.8503	960765.0379	60.0000	-0.0574
E2-D7	1632+74.0363	-12.4999	5257.7665	5257.9213	680553.9084	960733.8942	72.0085	-0.0593	G2-L7	1633+02.3220	29.8331	5255.2413	5255.3962	680597.6469	960759.8003	71.9999	-0.0560
E2-D8	1632+85.9530	-12.4999	5257.7060	5257.9242	680564.6942	960728.6317	84.0096	-0.0579	G2-L8	1633+14.5270	29.6667	5255.2333	5255.4514	680608.4436	960754.5627	84.0000	-0.0546
E2-D9	1632+97.8709	-12.5000	5257.6395	5257.9195	680575.5165	960723.4416	96.0121	-0.0565	G2-L9	1633+26.7289	29.4171	5255.2229	5255.5028	680619.2402	960749.3251	95.9999	-0.0532
E2-D10	1633+09.7908	-12.5000	5257.5670	5257.9041	680586.3755	960718.3241	108.0166	-0.0552	G2-L10	1633+38.9269	29.0845	5255.2098	5255.5469	680630.0369	960744.0875	108.0000	-0.0518
E2-L1	1632+02.4055	-8.2219	5257.6527	5257.6559	680491.8907	960770.8115	0.0000	-0.0600	G2-R1	1632+28.8419	37.0825	5254.9103	5254.9135	680536.3588	960798.4237	0.0000	-0.0600
E2-L2	1632+14.3465	-7.8968	5257.6259	5257.6209	680502.6032	960765.4038	12.0000	-0.0600	G2-R2	1632+41.0963	37.4162	5254.8690	5254.8640	680547.1554	960793.1861	12.0000	-0.0600
E2-L3	1632+26.2912	-7.6530	5257.5980	5257.5931	680513.3156	960759.9962	23.9999	-0.0600	G2-R3	1632+53.3549	37.6665	5254.8264	5254.8215	680557.9521	960787.9485	24.0000	-0.0600
E2-L4	1632+38.2389	-7.4906	5257.5689	5257.5772	680524.0281	960754.5885	36.0000	-0.0600	G2-R4	1632+65.6165	37.8333	5254.7824	5254.7907	680568.7487	960782.7109	36.0000	-0.0600
E2-L5	1632+50.1881	-7.4094	5257.5387	5257.5831	680534.7406	960749.1809	48.0000	-0.0600	G2-R5	1632+77.8799	37.9167	5254.7811	5254.8255	680579.5454	960777.4733	48.0000	-0.0588
E2-L6	1632+62.1379	-7.4098	5257.5073	5257.6019	680545.4531	960743.7732	60.0000	-0.0600	G2-R6	1632+90.1437	37.9165	5254.7879	5254.8825	680590.3420	960772.2357	60.0000	-0.0574
E2-L7	1632+74.0871	-7.4914	5257.4693	5257.6242	680556.1656	960738.3656	72.0000	-0.0593	G2-R7	1633+02.4071	37.8328	5254.7931	5254.9480	680601.1387	960766.9981	72.0000	-0.0560
E2-L8	1632+86.0347	-7.6545	5257.4250	5257.6432	680566.8781	960732.9579	84.0000	-0.0579	G2-R8	1633+14.6686	37.6655	5254.7962	5255.0144	680611.9353	960761.7605	84.0000	-0.0546
E2-L9	1632+97.9794	-7.8988	5257.3788	5257.6588	680577.5905	960727.5503	95.9999	-0.0565	G2-R9	1633+26.9272	37.4148	5254.7970	5255.0770	680622.7319	960756.5229	95.9999	-0.0532
E2-L10	1633+09.9204	-8.2246	5257.3303	5257.6675	680588.3030	960722.1426	108.0000	-0.0552	G2-R10	1633+39.1817	37.0806	5254.7950	5255.1322	680633.5286	960751.2853	108.0000	-0.0518
E2-R1	1632+02.1616	-0.2256	5257.1730	5257.1762	680495.4958	960777.9532	0.0000	-0.0600	H2-L1	1632+43.0069	47.7448	5254.2454	5254.2486	680553.5410	960801.5156	0.0000	-0.0600
E2-R2	1632+14.1568	0.1009	5257.1462	5257.1412	680506.2083	960772.5455	12.0000	-0.0600	H2-L2	1632+55.3376	48.0807	5254.1965	5254.1915	680564.3805	960796.3671	12.0001	-0.0600
E2-R3	1632+26.1559	0.3458	5257.1183	5257.1134	680516.9208	960767.1378	24.0001	-0.0600	H2-L3	1632+67.6725	48.3326	5254.1462	5254.1413	680575.2199	960791.2186	24.0001	-0.0600
E2-R4	1632+38.1576	0.5090	5257.0891	5257.0973	680527.6332	960761.7302	36.0000	-0.0600	H2-L4	1632+80.0103	48.5005	5254.1626	5254.1708	680586.0593	960786.0701	36.0000	-0.0586
E2-R5	1632+50.1612	0.5905	5257.0588	5257.1032	680538.3457	960756.3225	48.0000	-0.0600	H2-L5	1632+92.3500	48.5843	5254.1786	5254.2229	680596.8987	960780.9216	48.0000	-0.0572
E2-R6	1632+62.1652	0.5902	5257.0272	5257.1218	680549.0582	960750.9149	60.0000	-0.0600	H2-L6	1633+04.6903	48.5841	5254.1930	5254.2876	680607.7381	960775.7731	60.0000	-0.0558
E2-R7	1632+74.1687	0.5082	5256.9949	5257.1497	680559.7707	960745.5072	72.0000	-0.0593	H2-L7	1633+17.0299	48.4999	5254.2056	5254.3605	680618.5775	960770.6246	72.0000	-0.0543
E2-R8	1632+86.1705	0.3444	5256.9613	5257.1795	680570.4832	960740.0996	84.0000	-0.0579	H2-L8	1633+29.3679	48.3317	5254.2160	5254.4342	680629.4170	960765.4761	84.0001	-0.0529
E2-R9	1632+98.1695	0.0989	5256.9258	5257.2058	680581.1956	960734.6919	96.0000	-0.0565	H2-L9	1633+41.7027	48.0794	5254.2238	5254.5038	680640.2564	960760.3276	96.0001	-0.0515
E2-R10	1633+10.1646	-0.2283	5256.8881	5257.2253	680591.9081	960729.2843	108.0000	-0.0551	H2-L10	1633+54.0333	47.7432	5254.2286	5254.5658	680651.0958	960755.1791	108.0000	-0.0501
F2-L1	1632+15.5661	10.4277	5256.5254	5256.5286	680512.3156	960780.9904	0.0000	-0.0600	H2-R1	1632+42.7469	55.7409	5253.7662	5253.7694	680556.9734	960808.7419	0.0000	-0.0600
F2-L2	1632+27.6341	10.7563	5256.4916	5256.4866	680523.0699	960775.6665	12.0000	-0.0600	H2-R2	1632+55.1352	56.0783	5253.7172	5253.7121	680567.8128	960803.5934	12.0000	-0.0600
F2-L3	1632+39.7062	11.0028	5256.4565	5256.4516	680533.8243	960770.3425	24.0000	-0.0600	H2-R3	1632+67.5279	56.3314	5253.6667	5253.6618	680578.6522	960798.4449	24.0000	-0.0600
F2-L4	1632+51.7810	11.1671	5256.4203	5256.4285	680544.5786	960765.0186	36.0000	-0.0600	H2-R4	1632+79.9236	56.5000	5253.6936	5253.7018	680589.4916	960793.2964	36.0000	-0.0586
F2-L5	1632+63.8576	11.2490	5256.3828	5256.4272	680555.3329	960759.6946	48.0000	-0.0600	H2-R5	1632+92.3211	56.5843	5253.7211	5253.7655	680600.3310	960788.1479	47.9999	-0.0572
F2-L6	1632+75.9348	11.2489	5256.3545	5256.4491	680566.0873	960754.3707	60.0000	-0.0591	H2-R6	1633+04.7194	56.5841	5253.7470	5253.8416	680611.1705	960782.9994	60.0000	-0.0558
F2-L7	1632+88.0113	11.1663	5256.3300	5256.4849	680576.8416	960749.0467	72.0000	-0.0577	H2-R7	1633+17.1169	56.4995	5253.7711	5253.9260	680622.0099	960777.8509	72.0000	-0.0543
F2-L8	1633+00.0861	11.0016	5256.3037	5256.5219	680587.5959	960743.7228	84.0000	-0.0563	H2-R8	1633+29.5126	56.3305	5253.7929	5254.0110	680632.8493	960772.7024	84.0000	-0.0529
F2-L9	1633+12.1582	10.7548	5256.2753	5256.5553	680598.3503	960738.3989	96.0000	-0.0549	H2-R9	1633+41.9053	56.0770	5253.8120	5254.0920	680643.6887	960767.5539	96.0000	-0.0515
F2-L10	1633+24.2262	10.4256	5256.2444	5256.5816	680609.1046	960733.0749	108.0000	-0.0535	H2-R10	1633+54.2936	55.7392	5253.8281	5254.1653	680654.5281	960762.4054	108.0000	-0.0500
F2-R1	1632+15.3170	18.4239	5256.0458	5256.0490	680515.8649	960788.1600	0.0000	-0.0600	H2-D1	1632+42.5580	61.5000	5253.4210	5253.4242	680559.4455	960813.9466	0.0000	-0.0600
F2-R2	1632+27.4403	18.7540	5256.0120	5256.0070	680526.6192	960782.8360	12.0000	-0.0600	H2-D2	1632+54.9969	61.5000	5253.3922	5253.3872	680570.1396	960808.4922	12.0048	-0.0600
F2-R3	1632+39.5678	19.0017	5255.9769	5255.9720	680537.3736	960777.5121	24.0000	-0.0600	H2-D3	1632+67.4337	61.5000	5253.3569	5253.3520	680580.8701	960803.1144	24.0074	-0.0600
F2-R4	1632+51.6981	19.1666	5255.9405	5255.9487	680548.1279	960772.1881	36.0000	-0.0600	H2-D4	1632+79.8690	61.5000	5253.4004	5253.4086	680591.6369	960797.8130	36.0086	-0.0586
F2-R5	1632+63.8300	19.2490	5255.9028	5255.9472	680558.8822	960766.8642	48.0000	-0.0600	H2-D5	1632+92.3033	61.5000	5253.4400	5253.4844	680602.4401	960792.5882	48.0090	-0.0572
F2-R6	1632+75.9627	19.2488	5255.8820	5255.9766	680569.6366	960761.5402	60.0001	-0.0591	H2-D6	1633+04.7373	61.5000	5253.4730	5253.5676	680613.2796	960787.4399	60.0090	-0.0557
F2-R7	1632+88.0946	19.1659	5255.8685	5256.0233	680580.3909	960756.2163	72.0000	-0.0577	H2-D7	1633+17.1717	61.5000	5253.4996	5253.6544	680624.1554	960782.3680	72.0093	-0.0543
F2-R8	1633+00.2248	19.0005	5255.8532	5256.0713	680591.1452	960750.8924	84.0000	-0.0563	H2-D8	1633+29.6069	61.5000	5253.5195	5253.7377	680635.0676	960777.3727	84.0105	-0.0529
F2-R9	1633+12.3523	18.7524	5255.8357	5256.1157	680601.8996	960745.5684	96.0001	-0.0549	H2-D9	1633+42.0437	61.5000	5253.5330	5253.8130	680646.0161	960772.4539	96.0131	-0.05

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 3NB																	
E3-D1	1633+12.1050	-12.5000	5257.5522	5257.8983	680588.4877	960717.3391	0.0000	-0.0549	G3-L1	1633+41.1470	29.0950	5255.2030	5255.5490	680632.0350	960743.2071	0.0000	-0.0516
E3-D2	1633+24.2468	-12.5000	5257.4709	5257.8649	680599.5909	960712.2165	12.2279	-0.0535	G3-L2	1633+53.5686	29.5174	5255.1428	5255.5367	680643.3802	960738.6607	12.2222	-0.0501
E3-D3	1633+36.3864	-12.5000	5257.3835	5257.8154	680610.7271	960707.1715	24.4536	-0.0521	G3-L3	1633+65.9955	29.8536	5255.0815	5255.5134	680654.7254	960734.1144	24.4445	-0.0487
E3-D4	1633+48.5242	-12.5000	5257.2898	5257.7461	680621.8962	960702.2040	36.6775	-0.0507	G3-L4	1633+78.4268	30.1036	5255.0187	5255.4750	680666.0706	960729.5680	36.6667	-0.0473
E3-D5	1633+60.6611	-12.5000	5257.1899	5257.6546	680633.0983	960697.3140	48.9004	-0.0493	G3-L5	1633+90.8609	30.2675	5254.9540	5255.4187	680677.4158	960725.0217	48.8889	-0.0458
E3-D6	1633+72.7972	-12.5000	5257.0838	5257.5413	680644.3332	960692.5015	61.1227	-0.0479	G3-L6	1634+03.2968	30.3450	5254.8871	5255.3447	680688.7610	960720.4753	61.1112	-0.0444
E3-D7	1633+84.9335	-12.5000	5256.9714	5257.4061	680655.6011	960687.7665	73.3450	-0.0465	G3-L7	1634+15.7331	30.3363	5254.8175	5255.2523	680700.1061	960715.9290	73.3333	-0.0430
E3-D8	1633+97.0704	-12.4999	5256.8528	5257.2523	680666.9019	960683.1090	85.5680	-0.0451	G3-L8	1634+28.1688	30.2413	5254.7450	5255.1445	680711.4513	960711.3826	85.5555	-0.0415
E3-D9	1634+09.2083	-12.4999	5256.7280	5257.0796	680678.2355	960678.5290	97.7920	-0.0437	G3-L9	1634+40.6024	30.0602	5254.6691	5255.0208	680722.7965	960706.8363	97.7777	-0.0401
E3-D10	1634+21.3482	-12.4999	5256.5969	5256.8927	680689.6022	960674.0265	110.0180	-0.0423	G3-L10	1634+53.0329	29.7927	5254.5896	5254.8854	680734.1417	960702.2899	110.0000	-0.0387
E3-L1	1633+11.9599	-8.2203	5257.3181	5257.6642	680590.1618	960721.2805	0.0000	-0.0549	G3-R1	1633+40.8358	37.0892	5254.7914	5255.1375	680635.0108	960750.6330	0.0000	-0.0516
E3-L2	1633+24.1209	-7.8452	5257.2227	5257.6166	680601.4113	960716.5024	12.2222	-0.0535	G3-R2	1633+53.3149	37.5135	5254.7426	5255.1365	680646.3560	960746.0867	12.2222	-0.0502
E3-L3	1633+36.2865	-7.5544	5257.1265	5257.5584	680612.6609	960711.7244	24.4444	-0.0521	G3-R3	1633+65.7995	37.8513	5254.6926	5255.1245	680657.7012	960741.5403	24.4445	-0.0487
E3-L4	1633+48.4556	-7.3481	5257.0291	5257.4853	680623.9105	960706.9463	36.6667	-0.0507	G3-R4	1633+78.2883	38.1025	5254.6411	5255.0974	680669.0464	960736.9940	36.6667	-0.0473
E3-L5	1633+60.6269	-7.2261	5256.9301	5257.3948	680635.1601	960702.1683	48.8889	-0.0493	G3-R5	1633+90.7801	38.2670	5254.5877	5255.0524	680680.3915	960732.4476	48.8888	-0.0458
E3-L6	1633+72.7992	-7.1885	5256.8293	5257.2868	680646.4096	960697.3903	61.1110	-0.0479	G3-R6	1634+03.2737	38.3450	5254.5320	5254.9895	680691.7367	960727.9013	61.1110	-0.0444
E3-L7	1633+84.9716	-7.2354	5256.7262	5257.1609	680657.6592	960692.6122	73.3333	-0.0465	G3-R7	1634+15.7678	38.3362	5254.4736	5254.9084	680703.0819	960723.3549	73.3333	-0.0430
E3-L8	1633+97.1427	-7.3667	5256.6205	5257.0200	680668.9088	960687.8342	85.5555	-0.0451	G3-R8	1634+28.2612	38.2409	5254.4122	5254.8117	680714.4271	960718.8086	85.5555	-0.0415
E3-L9	1634+09.3115	-7.5825	5256.5119	5256.8636	680680.1584	960683.0561	97.7778	-0.0437	G3-R9	1634+40.7525	38.0588	5254.3474	5254.6991	680725.7723	960714.2622	97.7777	-0.0401
E3-L10	1634+21.4766	-7.8826	5256.4001	5256.6959	680691.4079	960678.2781	109.9999	-0.0423	G3-R10	1634+53.2406	37.7901	5254.2789	5254.5747	680737.1175	960709.7159	109.9999	-0.0387
E3-R1	1633+11.6867	-0.2249	5256.8804	5257.2264	680593.2892	960728.6439	0.0000	-0.0549	H3-L1	1633+56.3385	47.7545	5254.2250	5254.5711	680653.1561	960754.2929	0.0000	-0.0498
E3-R2	1633+23.9030	0.1518	5256.7959	5257.1899	680604.5388	960723.8658	12.2223	-0.0535	H3-L2	1633+68.8950	48.1885	5254.1835	5254.5774	680664.5445	960749.8558	12.2223	-0.0484
E3-R3	1633+36.1238	0.4440	5256.7106	5257.1425	680615.7884	960719.0878	24.4445	-0.0521	H3-L3	1633+81.4570	48.5354	5254.1406	5254.5725	680675.9328	960745.4187	24.4444	-0.0469
E3-R4	1633+48.3480	0.6512	5256.6241	5257.0803	680627.0379	960714.3097	36.6667	-0.0507	H3-L4	1633+94.0236	48.7952	5254.0960	5254.5523	680687.3212	960740.9816	36.6667	-0.0455
E3-R5	1633+60.5746	0.7738	5256.5360	5257.0006	680638.2875	960709.5317	48.8889	-0.0493	H3-L5	1634+06.5934	48.9679	5254.0494	5254.5140	680698.7096	960736.5445	48.8889	-0.0440
E3-R6	1633+72.8023	0.8115	5256.4459	5256.9035	680649.5371	960704.7536	61.1112	-0.0479	H3-L6	1634+19.1650	49.0533	5254.0002	5254.4578	680710.0979	960732.1074	61.1111	-0.0426
E3-R7	1633+85.0300	0.7644	5256.3536	5256.7884	680660.7867	960699.9756	73.3334	-0.0465	H3-L7	1634+31.7372	49.0515	5253.9482	5254.3829	680721.4863	960727.6703	73.3333	-0.0411
E3-R8	1633+97.2563	0.6324	5256.2587	5256.6582	680672.0362	960695.1975	85.5555	-0.0451	H3-L8	1634+44.3089	48.9625	5253.8929	5254.2925	680732.8747	960723.2332	85.5556	-0.0397
E3-R9	1634+09.4803	0.4157	5256.1608	5256.5124	680683.2858	960690.4195	97.7778	-0.0437	H3-L9	1634+56.8785	48.7863	5253.8341	5254.1857	680744.2630	960718.7960	97.7778	-0.0382
E3-R10	1634+21.7007	0.1142	5256.0596	5256.3554	680694.5354	960685.6414	110.0000	-0.0423	H3-L10	1634+69.4449	48.5229	5253.7713	5254.0671	680755.6514	960714.3589	110.0000	-0.0368
F3-L1	1633+26.3582	10.4338	5256.2347	5256.5808	680611.0360	960732.2023	0.0000	-0.0533	H3-R1	1633+56.0158	55.7484	5253.8270	5254.1731	680656.0604	960761.7471	0.0000	-0.0498
F3-L2	1633+38.6479	10.8367	5256.1566	5256.5505	680622.3350	960727.5425	12.2222	-0.0518	H3-R2	1633+68.6310	56.1844	5253.7970	5254.1910	680667.4488	960757.3100	12.2223	-0.0484
F3-L3	1633+50.9427	11.1546	5256.0775	5256.5094	680633.6341	960722.8828	24.4444	-0.0504	H3-R3	1633+81.2519	56.5330	5253.7657	5254.1976	680678.8371	960752.8729	24.4444	-0.0469
F3-L4	1633+63.2415	11.3870	5255.9971	5256.4533	680644.9332	960718.2230	36.6666	-0.0490	H3-R4	1633+93.8774	56.7940	5253.7326	5254.1889	680690.2255	960748.4358	36.6667	-0.0455
F3-L5	1633+75.5429	11.5342	5255.9149	5256.3796	680656.2323	960713.5632	48.8889	-0.0476	H3-R5	1634+06.5061	56.9674	5253.6974	5254.1621	680701.6139	960743.9987	48.8889	-0.0440
F3-L6	1633+87.8457	11.5961	5255.8307	5256.2883	680667.5314	960708.9035	61.1111	-0.0462	H3-R6	1634+19.1367	57.0532	5253.6597	5254.1172	680713.0022	960739.5616	61.1111	-0.0426
F3-L7	1634+00.1487	11.5725	5255.7441	5256.1789	680678.8304	960704.2437	73.3332	-0.0448	H3-R7	1634+31.7680	57.0515	5253.6191	5254.0538	680724.3906	960735.1245	73.3333	-0.0411
F3-L8	1634+12.4509	11.4637	5255.6548	5256.0543	680690.1295	960699.5839	85.5555	-0.0433	H3-R8	1634+44.3985	56.9620	5253.5751	5253.9747	680735.7789	960730.6874	85.5555	-0.0397
F3-L9	1634+24.7510	11.2695	5255.5623	5255.9139	680701.4286	960694.9241	97.7777	-0.0419	H3-R9	1634+57.0271	56.7850	5253.5276	5253.8792	680747.1673	960726.2502	97.7778	-0.0382
F3-L10	1634+37.0477	10.9901	5255.4663	5255.7622	680712.7277	960690.2644	110.0000	-0.0405	H3-R10	1634+69.6525	56.5204	5253.4760	5253.7719	680758.5557	960721.8131	110.0000	-0.0368
F3-R1	1633+26.0634	18.4285	5255.8100	5256.1560	680614.0860	960739.5981	0.0000	-0.0533	H3-D1	1633+55.7817	61.5001	5253.5402	5253.8863	680658.1501	960767.1105	0.0000	-0.0499
F3-R2	1633+38.4095	18.8333	5255.7430	5256.1369	680625.3851	960734.9383	12.2223	-0.0519	H3-D2	1633+68.4541	61.5000	5253.5398	5253.9338	680669.3795	960762.2655	12.2300	-0.0484
F3-R3	1633+50.7607	19.1525	5255.6750	5256.1069	680636.6841	960730.2785	24.4444	-0.0505	H3-D3	1633+81.1235	61.5000	5253.5327	5253.9646	680680.6409	960757.5025	24.4573	-0.0470
F3-R4	1633+63.1158	19.3861	5255.6056	5256.0619	680647.9832	960725.6188	36.6666	-0.0490	H3-D4	1633+93.7907	61.5000	5253.5187	5253.9750	680691.9342	960752.8215	36.6822	-0.0455
F3-R5	1633+75.4736	19.5339	5255.5345	5255.9992	680659.2823	960720.9590	48.8889	-0.0476	H3-D5	1634+06.4563	61.5000	5253.4979	5253.9626	680703.2595	960748.2223	48.9058	-0.0440
F3-R6	1633+87.8330	19.5960	5255.4613	5255.9189	680670.5814	960716.2992	61.1111	-0.0462	H3-D6	1634+19.1209	61.5000	5253.4704	5253.9279	680714.6166	960743.7050	61.1283	-0.0426
F3-R7	1634+00.1926	19.5724	5255.3857	5255.8205	680681.8805	960711.6394	73.3334	-0.0448	H3-D7	1634+31.7851	61.5000	5253.4361	5253.8708	680726.0056	960739.2696	73.3505	-0.0411
F3-R8	1634+12.5513	19.4631	5255.3073	5255.7068	680693.1796	960706.9797	85.5556	-0.0433	H3-D8	1634+44.4498	61.5000	5253.3949	5253.7945	680737.4265	960734.9160	85.5731	-0.0397
F3-R9	1634+24.9077	19.2680	5255.2257	5255.5773	680704.4786	960702.3199	97.7777	-0.0419	H3-D9	1634+57.1154	61.5000	5253.3470	5253.6987	680748.8793	960730.6443	97.7966	-0.03

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 4NB																	
E4-D1	1634+24.0118	-12.4999	5256.5673	5256.8530	680692.1003	960673.0491	0.0000	-0.0420	G4-L1	1634+55.4056	29.7791	5254.5721	5254.8578	680736.3241	960701.4663	0.0000	-0.0384
E4-D2	1634+37.4190	-12.5000	5256.4137	5256.6269	680704.6967	960668.1867	13.5023	-0.0405	G4-L2	1634+69.1378	29.8697	5254.4600	5254.6732	680749.0342	960696.9163	13.5000	-0.0368
E4-D3	1634+50.8247	-12.5000	5256.2526	5256.3901	680717.3283	960663.4208	27.0031	-0.0389	G4-L3	1634+82.7589	29.8672	5254.3444	5254.4818	680761.7444	960692.3662	27.0000	-0.0353
E4-D4	1634+64.2297	-12.4999	5256.0839	5256.1497	680729.9951	960658.7515	40.5031	-0.0374	G4-L4	1634+96.2589	29.8505	5254.2223	5254.2881	680774.4545	960687.8162	40.5000	-0.0337
E4-D5	1634+77.6444	-12.5000	5255.9074	5255.9151	680742.6970	960654.1781	54.0033	-0.0358	G4-L5	1635+09.7589	29.8338	5254.0924	5254.1001	680787.1646	960683.2662	54.0000	-0.0322
E4-D6	1634+91.1448	-12.5000	5255.7223	5255.6999	680755.4131	960649.6436	67.5037	-0.0343	G4-L6	1635+23.2588	29.8172	5253.9548	5253.9323	680799.8747	960678.7162	67.5000	-0.0306
E4-D7	1635+04.6452	-12.5000	5255.5295	5255.4942	680768.1292	960645.1092	81.0040	-0.0328	G4-L7	1635+36.7588	29.8005	5253.8094	5253.7741	680812.5849	960674.1662	81.0000	-0.0291
E4-D8	1635+18.1455	-12.5000	5255.3289	5255.2943	680780.8453	960640.5748	94.5044	-0.0312	G4-L8	1635+50.2588	29.7838	5253.6562	5253.6216	680825.2950	960669.6162	94.5000	-0.0275
E4-D9	1635+31.6459	-12.5000	5255.1207	5255.0954	680793.5614	960636.0404	108.0048	-0.0297	G4-L9	1635+63.7588	29.7671	5253.4953	5253.4700	680838.0051	960665.0661	108.0000	-0.0260
E4-L1	1634+23.9094	-7.8784	5256.3742	5256.6599	680693.6852	960677.3916	0.0000	-0.0420	G4-R1	1634+55.3189	37.7786	5254.2655	5254.5512	680739.0204	960708.9982	0.0000	-0.0384
E4-L2	1634+37.3480	-7.6290	5256.2174	5256.4305	680706.3669	960672.7629	13.5000	-0.0405	G4-R2	1634+69.1147	37.8697	5254.1656	5254.3788	680751.7305	960704.4482	13.5000	-0.0368
E4-L3	1634+50.7896	-7.4825	5256.0577	5256.1951	680719.0486	960668.1343	27.0000	-0.0389	G4-R3	1634+82.7687	37.8672	5254.0622	5254.1997	680764.4407	960699.8982	27.0000	-0.0353
E4-L4	1634+64.2327	-7.4391	5255.8946	5255.9604	680731.7303	960663.5056	40.5000	-0.0374	G4-R4	1634+96.2687	37.8505	5253.9524	5254.0183	680777.1508	960695.3482	40.5000	-0.0337
E4-L5	1634+77.6816	-7.4980	5255.7277	5255.7354	680744.4120	960658.8770	54.0000	-0.0358	G4-R5	1635+09.7687	37.8338	5253.8349	5253.8426	680789.8609	960690.7981	54.0000	-0.0322
E4-L6	1634+91.1812	-7.5983	5255.5537	5255.5312	680757.0937	960654.2483	67.5000	-0.0343	G4-R6	1635+23.2687	37.8172	5253.7096	5253.6872	680802.5711	960686.2481	67.5001	-0.0306
E4-L7	1635+04.6809	-7.6987	5255.3717	5255.3364	680769.7754	960649.6197	81.0000	-0.0328	G4-R7	1635+36.7687	37.8005	5253.5766	5253.5413	680815.2812	960681.6981	81.0000	-0.0291
E4-L8	1635+18.1805	-7.7990	5255.1817	5255.1471	680782.4571	960644.9910	94.5000	-0.0312	G4-R8	1635+50.2687	37.7838	5253.4358	5253.4011	680827.9913	960677.1481	94.5000	-0.0275
E4-L9	1635+31.6801	-7.8993	5254.9837	5254.9584	680795.1388	960640.3624	108.0000	-0.0297	G4-R9	1635+63.7687	37.7671	5253.2872	5253.2619	680840.7014	960672.5981	108.0000	-0.0260
E4-R1	1634+23.7311	0.1196	5256.0397	5256.3254	680696.4281	960684.9067	0.0000	-0.0421	H4-L1	1634+71.6626	48.4988	5253.7586	5254.0443	680757.6722	960713.6052	0.0000	-0.0365
E4-R2	1634+37.2307	0.3701	5255.8947	5256.1079	680709.1098	960680.2780	13.5000	-0.0405	H4-L2	1634+85.2896	48.5035	5253.6702	5253.8834	680770.3876	960709.0698	13.5000	-0.0350
E4-R3	1634+50.7333	0.5173	5255.7468	5255.8843	680721.7915	960675.6494	27.0000	-0.0389	H4-L3	1634+98.7896	48.5024	5253.5749	5253.7124	680783.1029	960704.5345	27.0000	-0.0334
E4-R4	1634+64.2374	0.5609	5255.5955	5255.6613	680734.4732	960671.0207	40.5000	-0.0374	H4-L4	1635+12.2896	48.5014	5253.4719	5253.5377	680795.8183	960699.9992	40.5000	-0.0319
E4-R5	1634+77.7410	0.5017	5255.4402	5255.4479	680747.1549	960666.3921	54.0000	-0.0358	H4-L5	1635+25.7896	48.5003	5253.3611	5253.3688	680808.5337	960695.4639	54.0000	-0.0303
E4-R6	1634+91.2407	0.4014	5255.2786	5255.2561	680759.8366	960661.7634	67.5000	-0.0343	H4-L6	1635+39.2896	48.4992	5253.2427	5253.2202	680821.2491	960690.9286	67.5000	-0.0288
E4-R7	1635+04.7403	0.3011	5255.1089	5255.0736	680772.5183	960657.1347	81.0000	-0.0327	H4-L7	1635+52.7896	48.4981	5253.1165	5253.0812	680833.9645	960686.3933	81.0000	-0.0273
E4-R8	1635+18.2400	0.2008	5254.9312	5254.8966	680785.2001	960652.5061	94.5001	-0.0312	H4-L8	1635+66.2896	48.4971	5252.9826	5252.9480	680846.6798	960681.8579	94.5000	-0.0257
E4-R9	1635+31.7396	0.1005	5254.7455	5254.7202	680797.8818	960647.8774	108.0001	-0.0297	H4-L9	1635+79.7896	48.4960	5252.8410	5252.8157	680859.3952	960677.3226	108.0000	-0.0242
F4-L1	1634+39.4911	10.9865	5255.4443	5255.7300	680714.9953	960689.3963	0.0000	-0.0402	H4-R1	1634+71.6416	56.4987	5253.4665	5253.7522	680760.3598	960721.1402	0.0000	-0.0365
F4-L2	1634+53.0753	11.1662	5255.3096	5255.5227	680727.6942	960684.8149	13.5000	-0.0387	H4-R2	1634+85.2903	56.5035	5253.3905	5253.6036	680773.0752	960716.6049	13.5000	-0.0350
F4-L3	1634+66.6615	11.2419	5255.1714	5255.3089	680740.3930	960680.2335	27.0000	-0.0371	H4-R3	1634+98.7903	56.5024	5253.3075	5253.4450	680785.7905	960712.0696	26.9999	-0.0334
F4-L4	1634+80.2229	11.2179	5255.0295	5255.0953	680753.0919	960675.6520	40.5001	-0.0355	H4-R4	1635+12.2903	56.5014	5253.2168	5253.2826	680798.5059	960707.5343	40.4999	-0.0319
F4-L5	1634+93.7228	11.1678	5254.8812	5254.8889	680765.7907	960671.0706	54.0000	-0.0340	H4-R5	1635+25.7903	56.5003	5253.1184	5253.1261	680811.2213	960702.9989	54.0000	-0.0303
F4-L6	1635+07.2227	11.1178	5254.7251	5254.7026	680778.4895	960666.4892	67.5000	-0.0325	H4-R6	1635+39.2903	56.4992	5253.0123	5252.9898	680823.9367	960698.4636	67.5000	-0.0288
F4-L7	1635+20.7226	11.0677	5254.5611	5254.5258	680791.1884	960661.9078	81.0000	-0.0309	H4-R7	1635+52.7903	56.4981	5252.8984	5252.8632	680836.6521	960693.9283	81.0000	-0.0273
F4-L8	1635+34.2225	11.0177	5254.3892	5254.3546	680803.8872	960657.3264	94.5000	-0.0294	H4-R8	1635+66.2903	56.4971	5252.7769	5252.7423	680849.3674	960689.3930	94.4999	-0.0257
F4-L9	1635+47.7224	10.9676	5254.2094	5254.1841	680816.5861	960652.7449	108.0001	-0.0278	H4-R9	1635+79.7903	56.4960	5252.6476	5252.6223	680862.0828	960684.8577	107.9999	-0.0242
F4-R1	1634+39.3523	18.9854	5255.1236	5255.4093	680717.7103	960696.9216	0.0000	-0.0403	H4-D1	1634+71.6284	61.5001	5253.2838	5253.5695	680762.0400	960725.8509	0.0000	-0.0365
F4-R2	1634+52.9988	19.1658	5255.0009	5255.2140	680730.4091	960692.3401	13.5000	-0.0387	H4-D2	1634+85.2907	61.5000	5253.2157	5253.4289	680774.7537	960721.3110	13.5000	-0.0350
F4-R3	1634+66.6474	19.2418	5254.8747	5255.0122	680743.1079	960687.7587	26.9999	-0.0371	H4-D3	1634+98.7907	61.5000	5253.1404	5253.2779	680787.4695	960716.7767	27.0000	-0.0334
F4-R4	1634+80.2525	19.2178	5254.7448	5254.8107	680755.8068	960683.1773	40.5000	-0.0355	H4-D4	1635+12.2907	61.5000	5253.0574	5253.1232	680800.1852	960712.2424	40.5000	-0.0319
F4-R5	1634+93.7524	19.1677	5254.6089	5254.6166	680768.5056	960678.5959	53.9999	-0.0340	H4-D5	1635+25.7907	61.5000	5252.9667	5252.9744	680812.9010	960707.7081	54.0000	-0.0303
F4-R6	1635+07.2523	19.1177	5254.4650	5254.4426	680781.2045	960674.0144	67.5000	-0.0325	H4-D6	1635+39.2907	61.5000	5252.8683	5252.8458	680825.6167	960703.1738	67.5000	-0.0288
F4-R7	1635+20.7523	19.0676	5254.3133	5254.2781	680793.9033	960669.4330	81.0000	-0.0309	H4-D7	1635+52.7907	61.5000	5252.7621	5252.7268	680838.3324	960698.6395	80.9999	-0.0273
F4-R8	1635+34.2522	19.0176	5254.1538	5254.1192	680806.6021	960664.8516	94.4999	-0.0294	H4-D8	1635+66.2907	61.5000	5252.6482	5252.6136	680851.0482	960694.1052	94.5000	-0.0257
F4-R9	1635+47.7521	18.9675	5253.9864	5253.9611	680819.3010	960660.2702	108.0000	-0.0278	H4-D9	1635+79.7907	61.5000	5252.5267	5252.5014	680863.7639	960689.5709	108.0000	-0.0242

NOTES:
1. For Notes See Bridge Deck Elevations I Sheet.

Print Date: 1/7/2011	Sheet Revisions			 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE BRIDGE DECK ELEVATIONS XI			Project No./Code BR 0252-407 17783 Sheet Number 158a C
File Name: 16311FBE_PH2_57a_Deck_ElevXI.dgn	Date:	Comments	Init.			Designer: K. Montgomery	Structure Numbers	F-16-XS	
Horiz. Scale: 1:1	Vert. Scale: As Noted	1/3/2011	Rev. 2 (Issued)	MK	Detailer: S. Fall				
Unit Information	Unit Leader Initials	1/10/2011	Rev. 3 (reissued)	MK	Sheet Subset: Bridge	Subset Sheets: B57a of 57			
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222									

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 CDDT-PDF driver.plt
 1/7/2011

PRELIMINARY - NOT FOR CONSTRUCTION

GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE	GRIDER LINE DESCRIPTION	I-25 RIGHT OFFSET STATION	OFFSET	ELEVATION	ELEVATION + D.L.	GLOBAL COORDINATES		GIRDER LINE LENGTH	ROADWAY CROSS SLOPE
					NORTHING	EASTING								NORTHING	EASTING		
GIRDERS 5NB																	
E5-D1	1635+33.9947	-12.5000	5255.0837	5255.0603	680795.7737	960635.2515	0.0000	-0.0294	G5-L1	1635+65.7373	29.7664	5253.4710	5253.4477	680839.8684	960664.4009	0.0000	-0.0258
E5-D2	1635+45.2531	-12.5000	5254.9030	5254.8923	680806.3780	960631.4701	11.2583	-0.0281	G5-L2	1635+76.9986	29.7744	5253.3294	5253.3187	680850.4783	960660.6261	11.2614	-0.0245
E5-D3	1635+56.5114	-12.5000	5254.7169	5254.7187	680816.9824	960627.6887	22.5168	-0.0268	G5-L3	1635+88.2600	29.7824	5253.1824	5253.1842	680861.0881	960656.8512	22.5227	-0.0232
E5-D4	1635+67.7698	-12.5000	5254.5255	5254.5372	680827.5867	960623.9073	33.7751	-0.0255	G5-L4	1635+99.5213	29.7904	5253.0300	5253.0417	680871.6979	960653.0764	33.7840	-0.0219
E5-D5	1635+79.0281	-12.5000	5254.3288	5254.3460	680838.1910	960620.1259	45.0334	-0.0243	G5-L5	1636+10.7827	29.7984	5252.8724	5252.8896	680882.3077	960649.3015	45.0454	-0.0206
E5-D6	1635+90.2865	-12.5000	5254.1266	5254.1450	680848.7953	960616.3445	56.2918	-0.0230	G5-L6	1636+22.0440	29.8064	5252.6897	5252.7080	680892.9175	960645.5267	56.3067	-0.0200
E5-D7	1636+01.5448	-12.5000	5253.9191	5253.9347	680859.3996	960612.5631	67.5501	-0.0217	G5-L7	1636+33.3053	29.8144	5252.4829	5252.4985	680903.5274	960641.7518	67.5681	-0.0200
E5-D8	1636+12.8032	-12.5000	5253.7063	5253.7161	680870.0040	960608.7817	78.8086	-0.0204	G5-L8	1636+44.5667	29.8224	5252.2708	5252.2806	680914.1372	960637.9770	78.8294	-0.0200
E5-D9	1636+24.0615	-12.5000	5253.4992	5253.5023	680880.6083	960605.0003	90.0669	-0.0200	G5-L9	1636+55.8280	29.8304	5252.0533	5252.0565	680924.7470	960634.2021	90.0908	-0.0200
E5-L1	1635+33.9751	-7.9044	5254.9488	5254.9255	680797.2987	960639.5867	0.0000	-0.0294	G5-R1	1635+65.7316	37.7664	5253.2649	5253.2416	680842.5501	960671.9381	0.0000	-0.0258
E5-L2	1635+45.2332	-7.8562	5254.7727	5254.7621	680807.9190	960635.8507	11.2583	-0.0281	G5-R2	1635+77.8453	37.7750	5253.1234	5253.1127	680853.9629	960667.8776	12.1136	-0.0244
E5-L3	1635+56.4914	-7.8080	5254.5914	5254.5932	680818.5393	960632.1148	22.5165	-0.0268	G5-R3	1635+89.9589	37.7836	5252.9757	5252.9775	680865.3757	960663.8170	24.2273	-0.0230
E5-L4	1635+67.7495	-7.7598	5254.4048	5254.4165	680829.1597	960628.3789	33.7748	-0.0255	G5-R4	1636+02.0726	37.7922	5252.8218	5252.8335	680876.7886	960659.7564	36.3410	-0.0216
E5-L5	1635+79.0077	-7.7117	5254.2130	5254.2302	680839.7800	960624.6429	45.0331	-0.0243	G5-R5	1636+14.1863	37.8009	5252.6617	5252.6789	680888.2014	960655.6959	48.4546	-0.0202
E5-L6	1635+90.2658	-7.6635	5254.0159	5254.0342	680850.4003	960620.9070	56.2913	-0.0230	G5-R6	1636+26.2999	37.8095	5252.4522	5252.4705	680899.6142	960651.6353	60.5683	-0.0200
E5-L7	1636+01.5239	-7.6153	5253.8136	5253.8292	680861.0206	960617.1711	67.5495	-0.0217	G5-R7	1636+38.4136	37.8181	5252.2274	5252.2430	680911.0270	960647.5748	72.6819	-0.0200
E5-L8	1636+12.7821	-7.5671	5253.6061	5253.6159	680871.6409	960613.4352	78.8078	-0.0204	G5-R8	1636+50.5272	37.8267	5251.9964	5252.0062	680922.4399	960643.5142	84.7956	-0.0200
E5-L9	1636+24.0402	-7.5189	5253.4000	5253.4031	680882.2612	960609.6992	90.0660	-0.0200	G5-R9	1636+62.6409	37.8353	5251.7592	5251.7623	680933.8527	960639.4537	96.9092	-0.0200
E5-R1	1635+33.9408	0.0955	5254.7141	5254.6908	680799.9535	960647.1333	0.0000	-0.0294	H5-L1	1635+81.6223	48.4959	5252.8212	5252.7979	680861.1214	960676.7071	0.0000	-0.0240
E5-R2	1635+46.0574	0.1474	5254.5354	5254.5248	680811.3836	960643.1125	12.1167	-0.0280	H5-L2	1635+92.8842	48.4964	5252.6962	5252.6856	680871.7293	960672.9249	11.2620	-0.0227
E5-R3	1635+58.1741	0.1992	5254.3507	5254.3525	680822.8138	960639.0917	24.2335	-0.0266	H5-L3	1636+04.1461	48.4969	5252.5659	5252.5678	680882.3372	960669.1428	22.5240	-0.0214
E5-R4	1635+70.2907	0.2511	5254.1599	5254.1716	680834.2439	960635.0709	36.3501	-0.0253	H5-L4	1636+15.4080	48.4974	5252.4303	5252.4420	680892.9450	960665.3607	33.7858	-0.0201
E5-R5	1635+82.4074	0.3030	5253.9630	5253.9802	680845.6741	960631.0501	48.4669	-0.0239	H5-L5	1636+26.6700	48.4980	5252.2316	5252.2488	680903.5528	960661.5786	45.0477	-0.0200
E5-R6	1635+94.5240	0.3548	5253.7601	5253.7784	680857.1043	960627.0293	60.5837	-0.0225	H5-L6	1636+37.9319	48.4985	5252.0228	5252.0412	680914.1607	960657.7965	56.3097	-0.0200
E5-R7	1636+06.6406	0.4067	5253.5511	5253.5667	680868.5344	960623.0085	72.7004	-0.0211	H5-L7	1636+49.1938	48.4990	5251.8086	5251.8242	680924.7685	960654.0144	67.5715	-0.0200
E5-R8	1636+18.7573	0.4585	5253.3359	5253.3457	680879.9646	960618.9877	84.8172	-0.0200	H5-L8	1636+60.4557	48.4995	5251.5891	5251.5989	680935.3763	960650.2323	78.8334	-0.0200
E5-R9	1636+30.8739	0.5104	5253.1141	5253.1172	680891.3948	960614.9668	96.9340	-0.0200	H5-L9	1636+71.7176	48.5000	5251.3642	5251.3673	680945.9842	960646.4502	90.0954	-0.0200
F5-L1	1635+49.8549	10.9650	5254.1802	5254.1568	680818.5938	960652.0263	0.0000	-0.0276	H5-R1	1635+81.6219	56.4959	5252.6295	5252.6062	680863.8080	960684.2424	0.0000	-0.0240
F5-L2	1635+61.1150	10.9891	5254.0215	5254.0108	680829.2078	960648.2670	11.2601	-0.0263	H5-R2	1635+93.7350	56.4965	5252.5060	5252.4953	680875.2176	960680.1745	12.1131	-0.0226
F5-L3	1635+72.3751	11.0131	5253.8575	5253.8593	680839.8218	960644.5077	22.5202	-0.0250	H5-R3	1636+05.8481	56.4970	5252.3763	5252.3781	680886.6272	960676.1065	24.2262	-0.0212
F5-L4	1635+83.6351	11.0372	5253.6882	5253.6998	680850.4359	960640.7484	33.7803	-0.0237	H5-R4	1636+17.9612	56.4976	5252.2294	5252.2411	680898.0368	960672.0386	36.3393	-0.0200
F5-L5	1635+94.8952	11.0612	5253.5135	5253.5307	680861.0499	960636.9890	45.0404	-0.0224	H5-R5	1636+30.0743	56.4981	5252.0091	5252.0263	680909.4464	960667.9706	48.4524	-0.0200
F5-L6	1636+06.1553	11.0853	5253.3336	5253.3520	680871.6639	960633.2297	56.3005	-0.0212	H5-R6	1636+42.1873	56.4987	5251.7825	5251.8009	680920.8560	960663.9027	60.5655	-0.0200
F5-L7	1636+17.4154	11.1093	5253.1470	5253.1626	680882.2779	960629.4704	67.5606	-0.0200	H5-R7	1636+54.3004	56.4992	5251.5498	5251.5654	680932.2656	960659.8347	72.6786	-0.0200
F5-L8	1636+28.6754	11.1334	5252.9421	5252.9519	680892.8920	960625.7111	78.8208	-0.0200	H5-R8	1636+66.4135	56.4998	5251.3108	5251.3206	680943.6751	960655.7668	84.7916	-0.0200
F5-L9	1636+39.9355	11.1574	5252.7319	5252.7351	680903.5060	960621.9518	90.0808	-0.0200	H5-R9	1636+78.5266	56.5003	5251.0656	5251.0687	680955.0847	960651.6988	96.9047	-0.0200
F5-R1	1635+49.8378	18.9650	5253.9597	5253.9363	680821.2647	960659.5673	0.0000	-0.0276	H5-D1	1635+81.6217	61.5000	5252.5096	5252.4863	680865.4886	960688.9559	0.0000	-0.0240
F5-R2	1635+61.9527	18.9909	5253.7998	5253.7891	680832.6845	960655.5226	12.1149	-0.0262	H5-D2	1635+93.7348	61.5000	5252.3930	5252.3824	680876.8980	960684.8874	12.1131	-0.0226
F5-R3	1635+74.0675	19.0168	5253.6338	5253.6356	680844.1042	960651.4779	24.2298	-0.0248	H5-D3	1636+05.8479	61.5000	5252.2702	5252.2720	680888.3074	960680.8189	24.2262	-0.0212
F5-R4	1635+86.1824	19.0426	5253.4616	5253.4733	680855.5240	960647.4332	36.3447	-0.0234	H5-D4	1636+17.9610	61.5000	5252.1294	5252.1411	680899.7168	960676.7505	36.3393	-0.0200
F5-R5	1635+98.2973	19.0685	5253.2833	5253.3005	680866.9438	960643.3885	48.4596	-0.0221	H5-D5	1636+30.0740	61.5000	5251.9090	5251.9262	680911.1262	960672.6820	48.4524	-0.0200
F5-R6	1636+10.4121	19.0944	5253.0989	5253.1172	680878.3635	960639.3438	60.5744	-0.0207	H5-D6	1636+42.1871	61.5000	5251.6825	5251.7008	680922.5356	960668.6135	60.5654	-0.0200
F5-R7	1636+22.5270	19.1203	5252.8947	5252.9102	680889.7833	960635.2991	72.6894	-0.0200	H5-D7	1636+54.3002	61.5000	5251.4497	5251.4653	680933.9450	960664.5450	72.6785	-0.0200
F5-R8	1636+34.6418	19.1461	5252.6714	5252.6812	680901.2030	960631.2544	84.8042	-0.0200	H5-D8	1636+66.4133	61.5000	5251.2108	5251.2206	680945.3544	960660.4766	84.7916	-0.0200
F5-R9	1636+46.7567	19.1720	5252.4420	5252.4451	680912.6228	960627.2097	96.9191	-0.0200	H5-D9	1636+78.5264	61.5000	5250.9656	5250.9687	680956.7638	960656.4081	96.9047	-0.0200

NOTES:
1. For Notes See Bridge Deck Elevations I Sheet.

Print Date: 1/7/2011	Sheet Revisions			 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 OVER SANTA FE BRIDGE DECK ELEVATIONS XII			Project No./Code BR 0252-407 17783 Sheet Number 158b C
File Name: 16311FBE_PH2_57b_Deck_ElevXII.dgn	Date:	Comments	Init.			Designer: K. Montgomery	Structure Numbers	F-16-XS	
Horiz. Scale: 1:1	1/3/2011	Rev. 2 (Issued)	MK	Detailer: S. Fall					
Unit Information	1/10/2011	Rev. 3 (reissued)	MK	Sheet Subset: Bridge	Subset Sheets: B57b of 57				
 FIGG 1873 S. BELLAIRE ST., STE 1500 DENVER CO, 80222									

s:\Projects\I-25_Santa_Fe\16311\FBE_PH2_57b_Deck_ElevXII.dgn
CDDOT-PDF driver.plt
1/7/2011

Design		Detail		Quantities		Revision Dates (Preliminary Stage Only)	
Designed By	Checked By	INITIAL	DATE				

GENERAL NOTES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) 2005 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, APPLICABLE TO THE PROJECT.

EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH M-206-2.

SHORING IS REQUIRED FOR BRIDGE PIER CONSTRUCTION ADJACENT TO EXISTING ROADWAYS.

EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M213.

A COLORED STRUCTURAL CONCRETE STAIN FINISH WILL BE REQUIRED AS SHOWN, SEE SHT. BR7 AND AESTHETIC DETAILS FOR MORE INFORMATION.

LEVELING PADS ARE UNLAMINATED BEARINGS. THEY SHALL BE CUT OR MOLDED FROM AASHTO ELASTOMER GRADE 3, 4, OR 5 AS DESCRIBED IN TABLES 705-1 AND 705-2 WITH A DUROMETER (SHORE "A") HARDNESS OF 60.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.

Ⓝ DENOTES NON COATED REINFORCING STEEL.

ALL THE PROVISIONS FOR BRIDGE DECK CONCRETE SHALL ALSO APPLY TO APPROACH SLAB CONCRETE.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
----------	----	----	----	----	----	----	-----	-----

SPLICE LENGTH FOR CLASS D CONCRETE	1'-3"	1'-7"	2'-5"	2'-10"	3'-8"	4'-8"	5'-10"	7'-3"
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WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS, THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR BLACK REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
----------	----	----	----	----	----	----	-----	-----

SPLICE LENGTH FOR CLASS D CONCRETE	1'-1"	1'-4"	1'-7"	1'-11"	2'-5"	3'-1"	3'-11"	4'-10"
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THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

FOR STRUCTURE NUMBER INSTALLATION, SEE STANDARD S-614-12.

ALL CONCRETE IN CONTACT WITH SOIL SHALL MEET CLASS 2 SULFATE SEVERITY EXPOSURE REQUIREMENTS.

ALL ELECTRICAL CONDUIT IN BRIDGE CONCRETE LESS THAN 2" DIAMETER, SHALL BE GALVANIZED RIGID METAL CONDUIT. ALL CONDUIT RUNS SHALL INCLUDE A PULL STRING FOR FUTURE WIRING INSTALLATION.

SEE PROJECT GENERAL NOTES FOR ADDITIONAL INFORMATION ON STONE MATRIX ASPHALT (FIBERS)(ASPHALT) OVERLAY TO BE APPLIED TO THE BRIDGE.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

PERMANENT DECK FORMS ARE REQUIRED, STEEL DECK FORMS ARE NOT ALLOWED.

DESIGN DATA

AASHTO, FOURTH EDITION LRFD 2007, AS AMENDED BY 2008 INTERIMS

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

SEISMIC DESIGN IS BASED ON THE AASHTO, LRFD BRIDGE DESIGN SPECIFICATIONS, FOURTH EDITION 2007, AS AMENDED BY 2008 INTERIMS

SITE CLASS	D	
PEAK GROUND ACCELERATION COEFFICIENT (PGA)		=0.06
ACCELERATION COEFFICIENT FOR SHORT PERIOD (S _s)		=0.125
ACCELERATION COEFFICIENT FOR LONG PERIOD (S _l)		=0.033
SITE FACTOR AT ZERO-PERIOD (F _{pga})		=1.60
SITE FACTOR FOR SHORT PERIOD (F _o)		=1.60
SITE FACTOR FOR LONG PERIOD (F _v)		=2.40
SEISMIC PERFORMANCE ZONE	1	

LIVE LOAD: HL-93 (DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD)

DEAD LOAD: ASSUMES 36 LBS. PER SQ. FT. FOR BRIDGE DECK OVERLAY
ASSUMES 38 LBS. PER SQ. FT. & 50 LBS. PER SQ. FT. FOR 3" & 4" PRESTRESSED DECK PANELS RESPECTIVELY.

REINFORCED CONCRETE:

CLASS D CONCRETE:	f'c =	4,500 psi
REINFORCING STEEL:	f _y =	60,000 psi

CAISSON CONCRETE:

CLASS BZ CONCRETE:	f'c =	4,000 psi
REINFORCING STEEL:	f _y =	60,000 psi

POST-TENSIONED CONCRETE FOR CLOSURES & PANEL CLOSURE STRIPS:

CLASS S50 CONCRETE:	f'c =	7,250 psi AT 28 DAYS
	f' _{ci} =	4,500 psi
	f' _s =	270,000 psi

PRECAST DECK PANELS:

CLASS PS CONCRETE:	f'c =	6,000 psi AT 28 DAYS
	f' _s =	270,000 psi

PRECAST U-GIRDERS

CLASS PS CONCRETE:	f'c =	8,500 psi @ 28 DAYS
	f' _{ci} =	6,000 psi @ RELEASE
	f' _s =	270,000 psi

ABBREVIATIONS

B.F.	=	BACK FACE
B.O.	=	BOTTOM OF
C.I.P.	=	CAST-IN-PLACE
CONST.	=	CONSTRUCTION
E.F.	=	EACH FACE
EL.	=	ELEVATION
F.F.	=	FAR FACE
HCL	=	HORIZONTAL CONTROL LINE
N.F.	=	NEAR FACE

INDEX OF DRAWINGS

BR1	GENERAL INFORMATION	BR60	UNIT 2 PT LAYOUT (2 OF 3)
BR2	SUMMARY OF QUANTITIES	BR61	UNIT 2 PT LAYOUT (3 OF 3)
BR3	GENERAL LAYOUT (1 OF 3)	BR62	UNIT 3 PT LAYOUT (1 OF 3)
BR4	GENERAL LAYOUT (2 OF 3)	BR63	UNIT 3 PT LAYOUT (2 OF 3)
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BR7	ARCHITECTURAL DETAILS	BR66	UNIT 1 DECK REINFORCING PLAN
BR8	ENGINEERING GEOLOGY (1 OF 3)	BR67	UNIT 2 DECK REINFORCING PLAN
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BR13	CONSTRUCTION LAYOUT (2 OF 4)	BR72	FALSEWORK CONSTRAINTS (1 OF 3)
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BR20	UNIT 1 ERECTION SEQUENCE (1 OF 2)	BR79	BEARING DEVICE (TYPE III) (1 OF 2)
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BR23	CAISSON LAYOUT (2 OF 4)	BR82	BRIDGE RAIL TYPE 7
BR24	CAISSON LAYOUT (3 OF 4)	BR83	FENCE CHAIN LINK (SPECIAL) (36 INCH)
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BR36	EXPANSION PIER DETAILS (3 OF 6)	BR96	BRIDGE DECK ELEVATIONS (3 OF 14)
BR37	EXPANSION PIER DETAILS (4 OF 6)	BR97	BRIDGE DECK ELEVATIONS (4 OF 14)
BR38	EXPANSION PIER DETAILS (5 OF 6)	BR98	BRIDGE DECK ELEVATIONS (5 OF 14)
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BR57	UNIT 1 PT LAYOUT (1 OF 2)		
BR58	UNIT 1 PT LAYOUT (2 OF 2)		
BR59	UNIT 2 PT LAYOUT (1 OF 3)		

BRIDGE DESCRIPTION

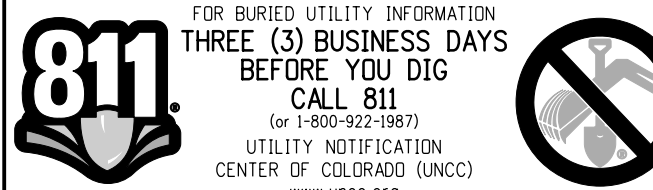
11 SPAN (145'-7", 191'-3", 147'-5", 149'-4", 170'-5", 193'-3", 138'-8", 119'-4", 177'-0", 187'-0", & 131'-3")

CURVED SPLICED PRECAST POST-TENSIONED CONCRETE U GIRDERS, CONTINUOUS AND COMPOSITE IN 3 SUPERSTRUCTURE UNITS.

RAMP 1 OVER I-25, RAMP 2 & SANTA FE
39'-0" WIDTH OUT TO OUT
36'-0" WIDTH RAIL TO RAIL
BRIDGE RAIL TYPE 7

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10
DESIGNED BY					
CHECKED BY					

FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
www.uncc.org



CROSS REFERENCE DRAWING NUMBER (IF BLANK, REFERENCE IS TO SAME SHEET)

BRX XX SECTION OR DETAIL IDENTIFICATION

Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code			
File Name: 16311BRDG_PH2_F-16-XR_GenInfo.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB		No Revisions:		RAMP 1 FLYOVER		BR 0252-407			
Horiz. Scale: 1:1 Vert. Scale: As Noted	12/3/10	Misc. Revisions	GAR			Revised:		Designer: G. Reese		Structure Numbers		17783	
Unit Information Unit Leader Initials	1/3/11	Misc. Revisions	GAR			Void:		Detailer: K. Soellner		Sheet Subset: Bridge		Subset Sheets: BR1 of 107	
 10822 Teller Drive Suite 330 Littleton, CO 80127												Sheet Number 159 B	



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12/22/2010 CDDT-PDFDraftQuality_XM.plt cfig

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
By	08/10	By	09/10	By	10/10
Checked By	11/10	Checked By	11/10	Checked By	11/10

SUMMARY OF QUANTITIES																	
ITEM NO.	DESCRIPTION	UNIT	SUPERSTRUCTURE	ABUTMENT 1	PIER 2	PIER 3	PIER 4	PIER 5	PIER 6	PIER 7	PIER 8	PIER 9	PIER 10	PIER 11	ABUTMENT 12	APPROACH SLABS (2)	TOTALS
206-00000	STRUCTURE EXCAVATION	CY			884	1,585	171	13	137	480	436	506	89	131			4,432
206-00100	STRUCTURE BACKFILL (CLASS 1)	CY		342													342
206-00200	STRUCTURE BACKFILL (CLASS 2)	CY		45	663	108	114	10	138	225	354	472	99	107			2,335
206-00360	MECHANICAL REINFORCEMENT OF SOIL	CY		342													342
206-01750	SHORING (AREA 6)	LS															1
403-09221	STONE MATRIX ASPHALT (FIBERS) (ASPHALT)	TON	1,138													26	1,164
503-00024	DRILLED CAISSON (24 INCH)	LF		108													108
503-00036	DRILLED CAISSON (36 INCH)	LF		107											76		183
503-00048	DRILLED CAISSON (48 INCH)	LF			58	80	78		84	70	62	54	52	44			582
503-00072	DRILLED CAISSON (72 INCH)	LF						71									71
① 509-08100	PROVIDE TEMPORARY SUPPORT (F-16-XR)	LS	1														1
512-00103	BEARING DEVICE (TYPE III)	EA		2			4				4				2		12
513-00600	BRIDGE DRAIN	EA	10														10
515-00120	WATERPROOFING (MEMBRANE)	SY	7,024													157	7,181
518-01004	BRIDGE EXPANSION DEVICE (0-4 INCH)	LF														72	72
518-01012	BRIDGE EXPANSION DEVICE (0-12 INCH)	LF					36				36						72
601-03040	CONCRETE CLASS D (BRIDGE)	CY	1,406	94	125	123	191	108	134	137	192	130	117	109	86	79	3,031
601-05050	CONCRETE CLASS S50	CY	150														150
601-40302	STRUCTURAL CONCRETE COATING (ANTI-GRAFFITI)	SF	28,083	608	1,710	1,675	1,532	1,409	1,878	1,923	1,558	1,804	1,571	1,427	402	931	46,511
601-40400	STRUCTURAL CONCRETE STAIN	SY	14,176	68	190	186	170	157	209	214	173	200	175	159	45	103	16,225
602-00000	REINFORCING STEEL	LB			4,170	4,170	4,290		4,170	4,170	4,290	4,170	4,170	4,170			37,770
602-00020	REINFORCING STEEL (EPOXY COATED)	LB	445,400	24,775	23,500	23,055	49,050	19,785	25,555	26,200	49,385	24,695	21,685	19,990	21,290	10,895	785,260
603-50015	15 INCH PLASTIC PIPE	LF		62											101		163
606-10700	BRIDGE RAIL TYPE 7	LF	3,514													80	3,594
607-53137	FENCE CHAIN LINK (SPECIAL) (36 INCH)	LF	3,496														3,496
613-00100	1 INCH ELECTRICAL CONDUIT	LF	213														213
613-00200	2 INCH ELECTRICAL CONDUIT	LF	8,787						90							300	9,177
618-00000	PRESTRESSING STEEL BAR	LB			1,579	1,579	1,661	1,974	1,579	1,579	1,661	1,579	1,579	1,579			16,349
618-00002	PRESTRESSING STEEL STRAND	MKFT	16,666														16,666
618-06032	PRESTRESSED CONCRETE SLAB (DEPTH LESS THAN 6 INCHES)	SF	43,833														43,833
618-10372	PRECAST CONCRETE U GIRDER (U72) (CURVED)	LF	3,439														3,439
631-10000	ALTERNATE BRIDGE DESIGN & CONSTRUCTION (F-16-XR)	LS															1

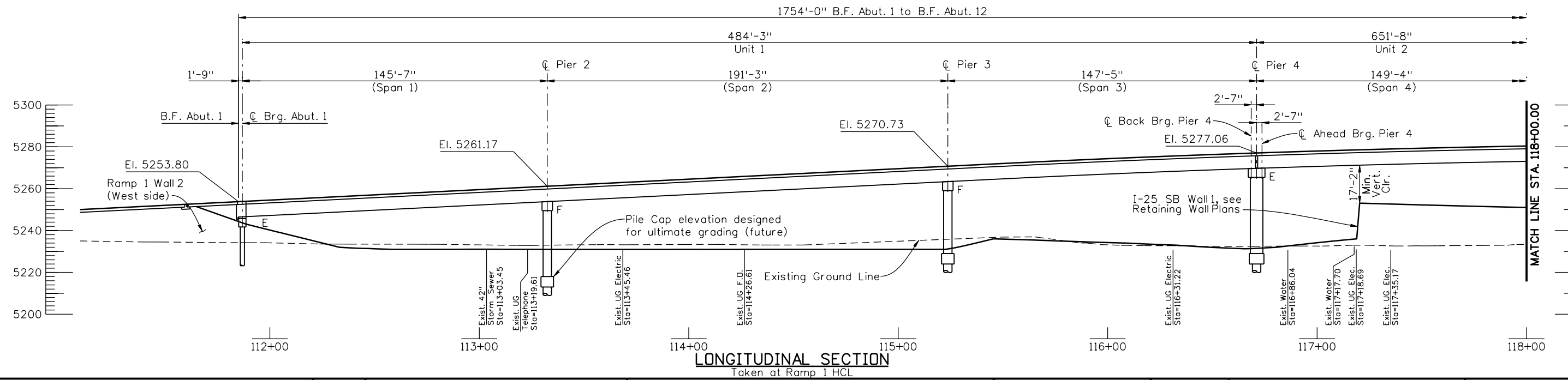
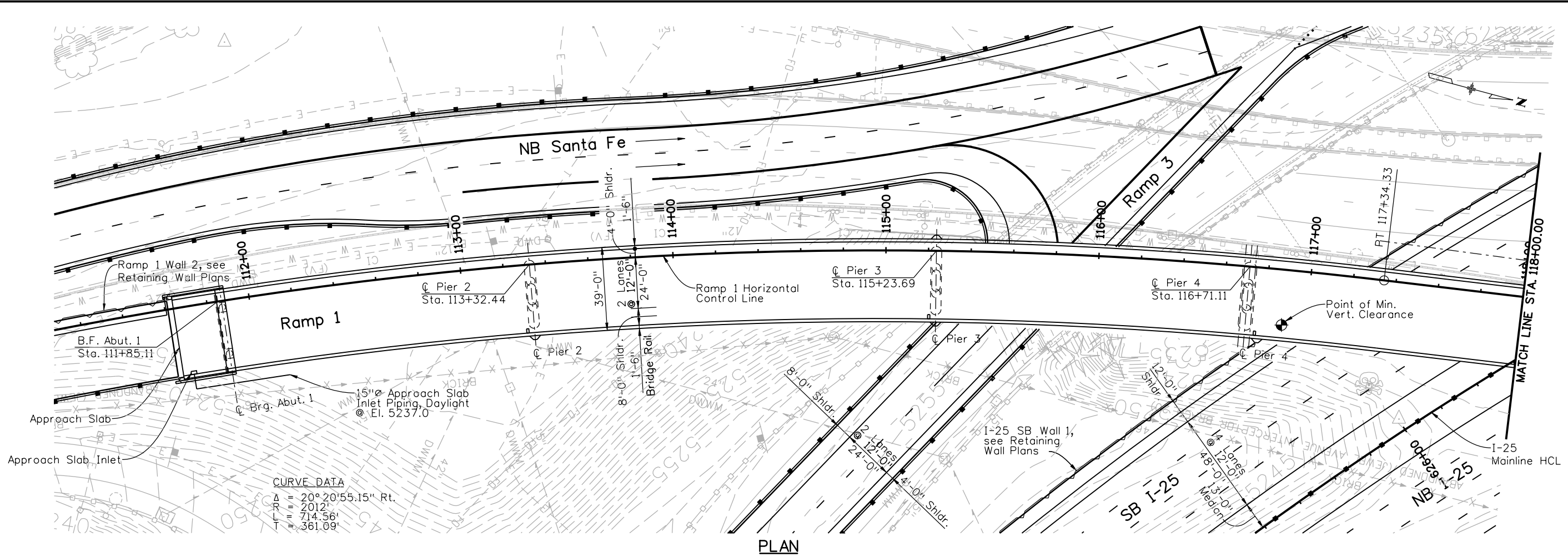
① Provide Temporary Support is the Item for support of girder segments prior to continuity post-tensioning, identified as Falsework in the plans. It includes all labor and materials to design, certify, construct, and deconstruct falsework towers, straddle bents and strongback beams, including temporary foundations and connections to the superstructure. Temporary Support shall meet all the requirements of Section 601 of the Specifications.

For Luminaires and Wiring, See Lighting Plans.

Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER SUMMARY OF QUANTITIES			Project No./Code			
File Name: 16311BRDG_PH2_F-16-XR_SAQ.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		Designer: G. Reese Detailer: K. Soellner Sheet Subset: Bridge			BR 0252-407			
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR			Revised:					Structure Numbers		17783	
Unit Information	1/3/11	Misc. Revisions	GAR			Void:					Subset Sheets: BR2 of 107		Sheet Number 160 B	
 10822 Teller Drive Suite 330 Littleton, CO 80127														

soelner 8:42:46 AM K:\08276\16311\Phase 2\Bridge\Drawings\16311BRDG_PH2_F-16-XR_GenLay01.dgn
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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	PRS	11/10	TF	11/10



Print Date: 11/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_GenLay01.dgn
 Horiz. Scale: 1:50 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

Colorado Department of Transportation

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Region 6 **RLB**

As Constructed

No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 GENERAL LAYOUT (1 OF 3)**

Designer: G. Reese
 Detailer: R. Dillon
 Sheet Subset: Bridge

Structure Numbers: F-16-XR
 Subset Sheets: BR3 of 107

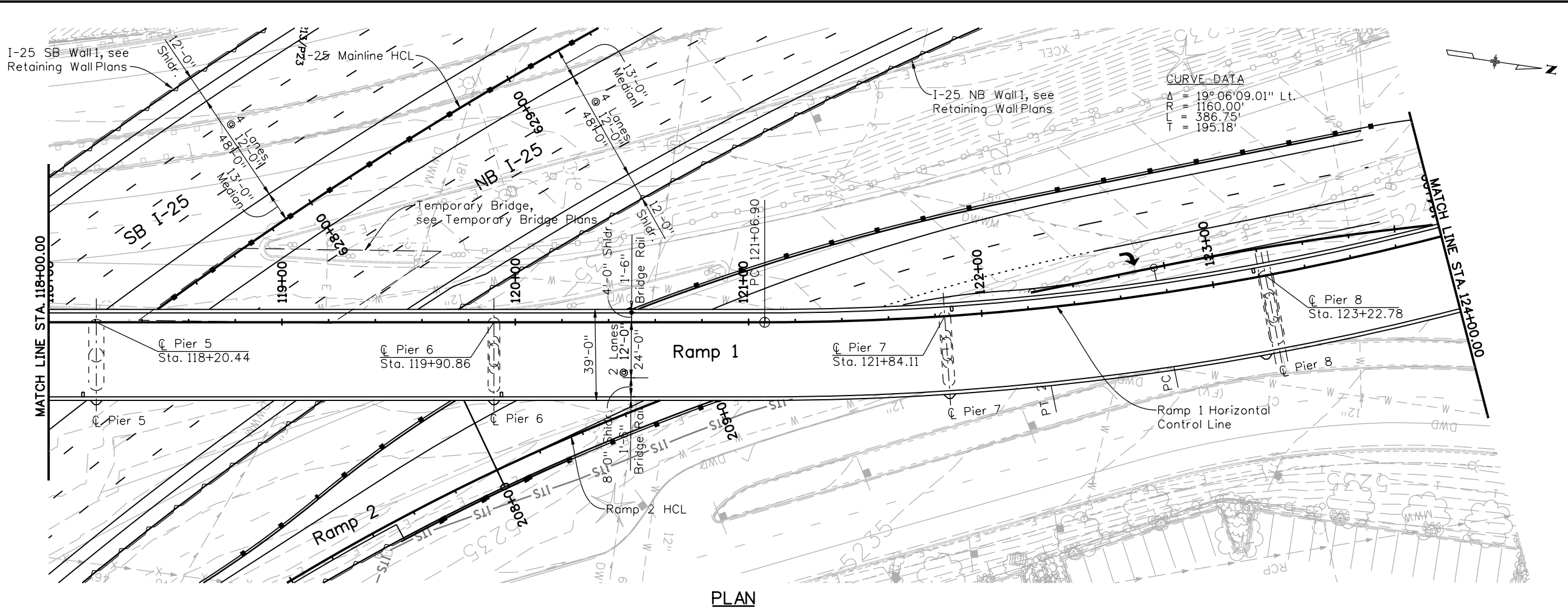
Project No./Code

BR 0252-407
 17783
 Sheet Number 161 A

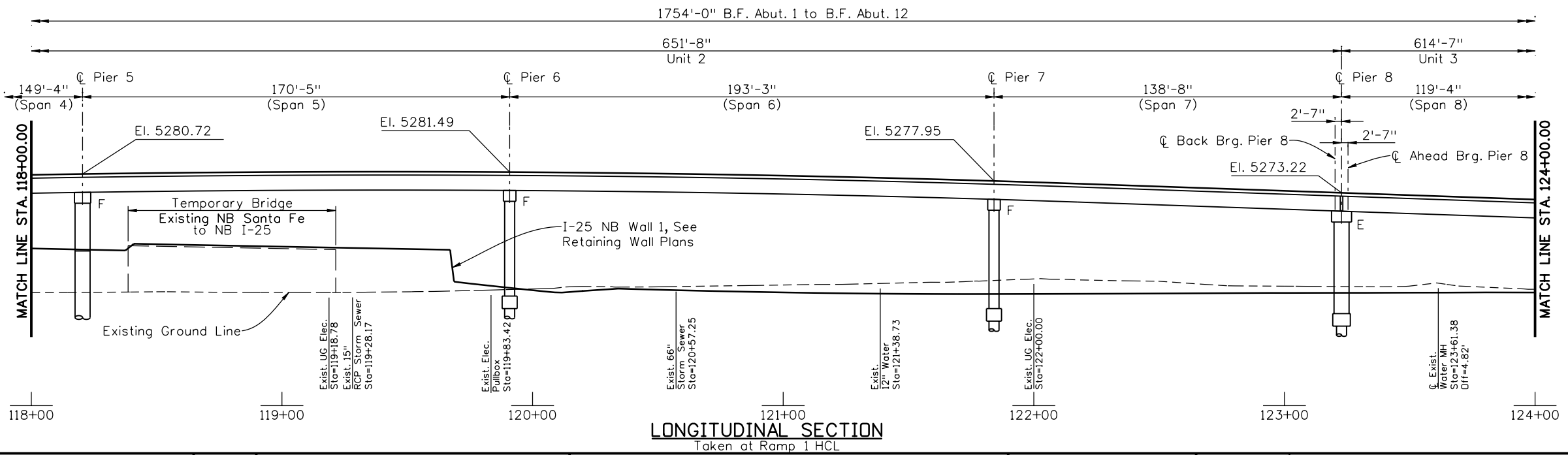


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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	PRS	11/10	TF	11/10



PLAN




LONGITUDINAL SECTION
Taken at Ramp 1 HCL

Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_GenLay02.dgn
Horiz. Scale: 1:50 Vert. Scale: As Noted
Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	

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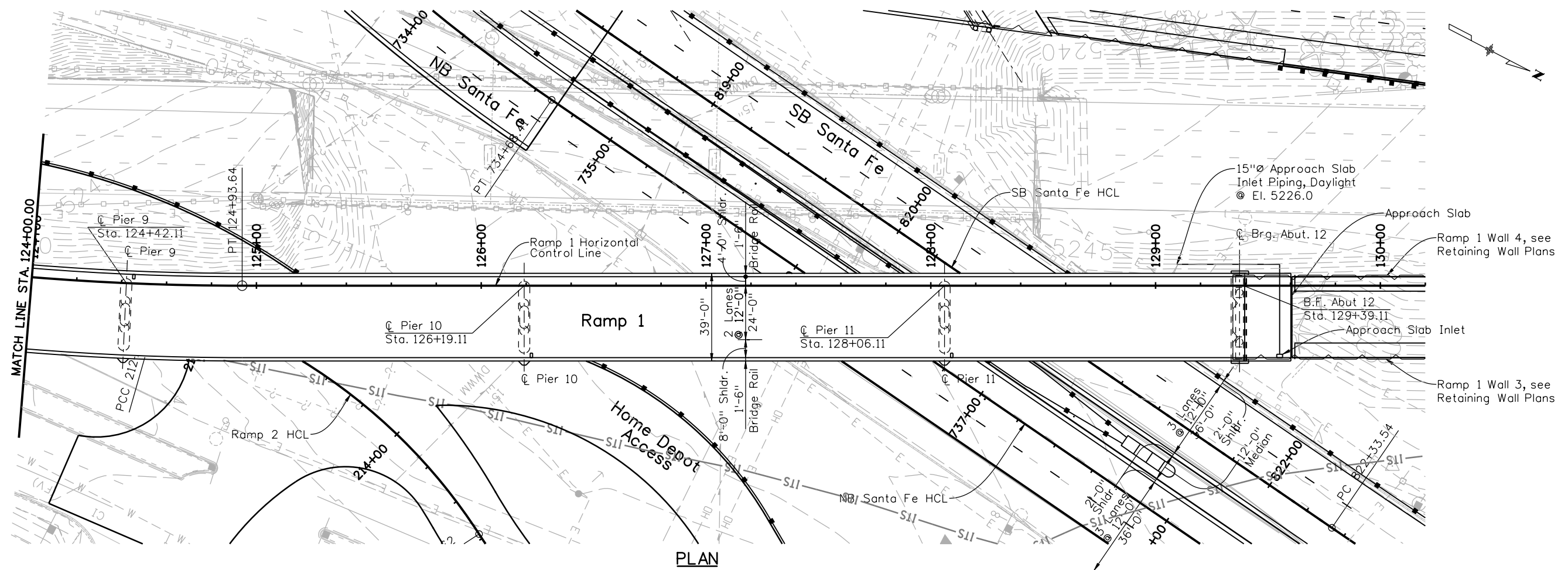
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I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
GENERAL LAYOUT (2 OF 3)

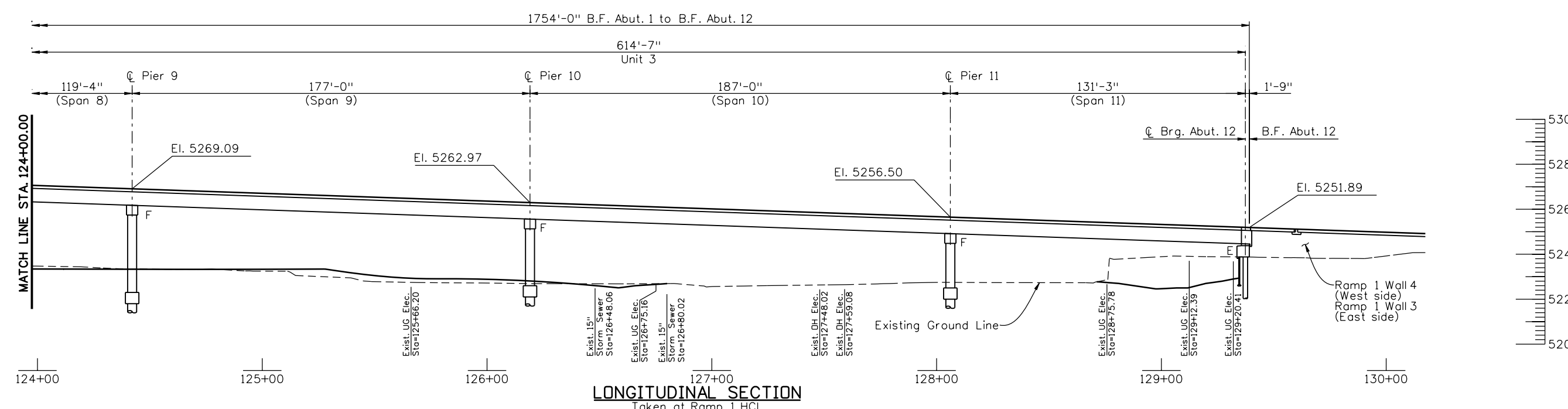
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	R. Dillon	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR4 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 162 A





PLAN



LONGITUDINAL SECTION
Taken at Ramp 1 HCL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By
Gar	KJS	TF	TF	TF	TF

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_GenLay03.dgn	
Horiz. Scale: 1:50 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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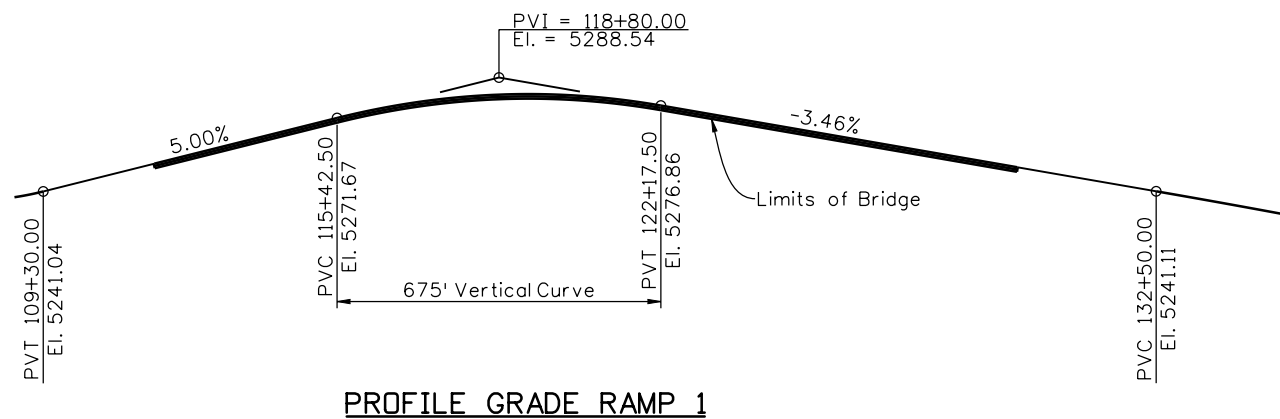
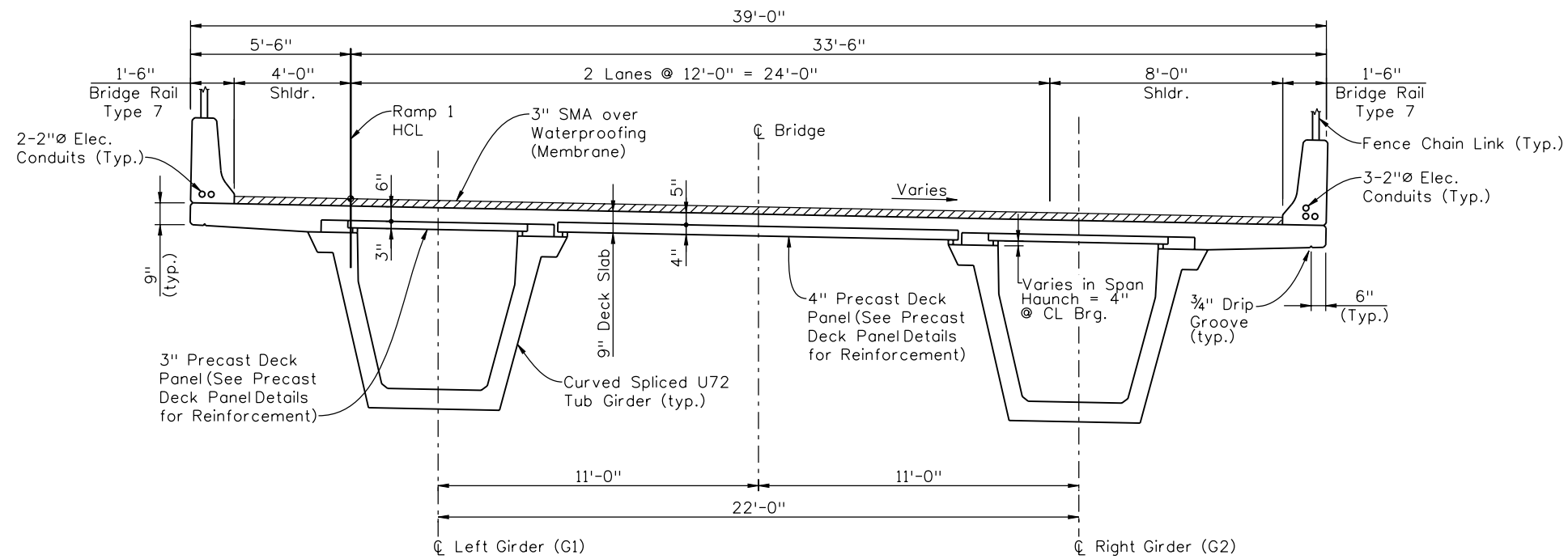
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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER GENERAL LAYOUT (3 OF 3)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	R. Dillon	Subset Sheets:	BR5 of 107

Project No./Code	BR 0252-407
	17783
Sheet Number	163 A



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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10

Print Date: 11/22/2010	
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Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

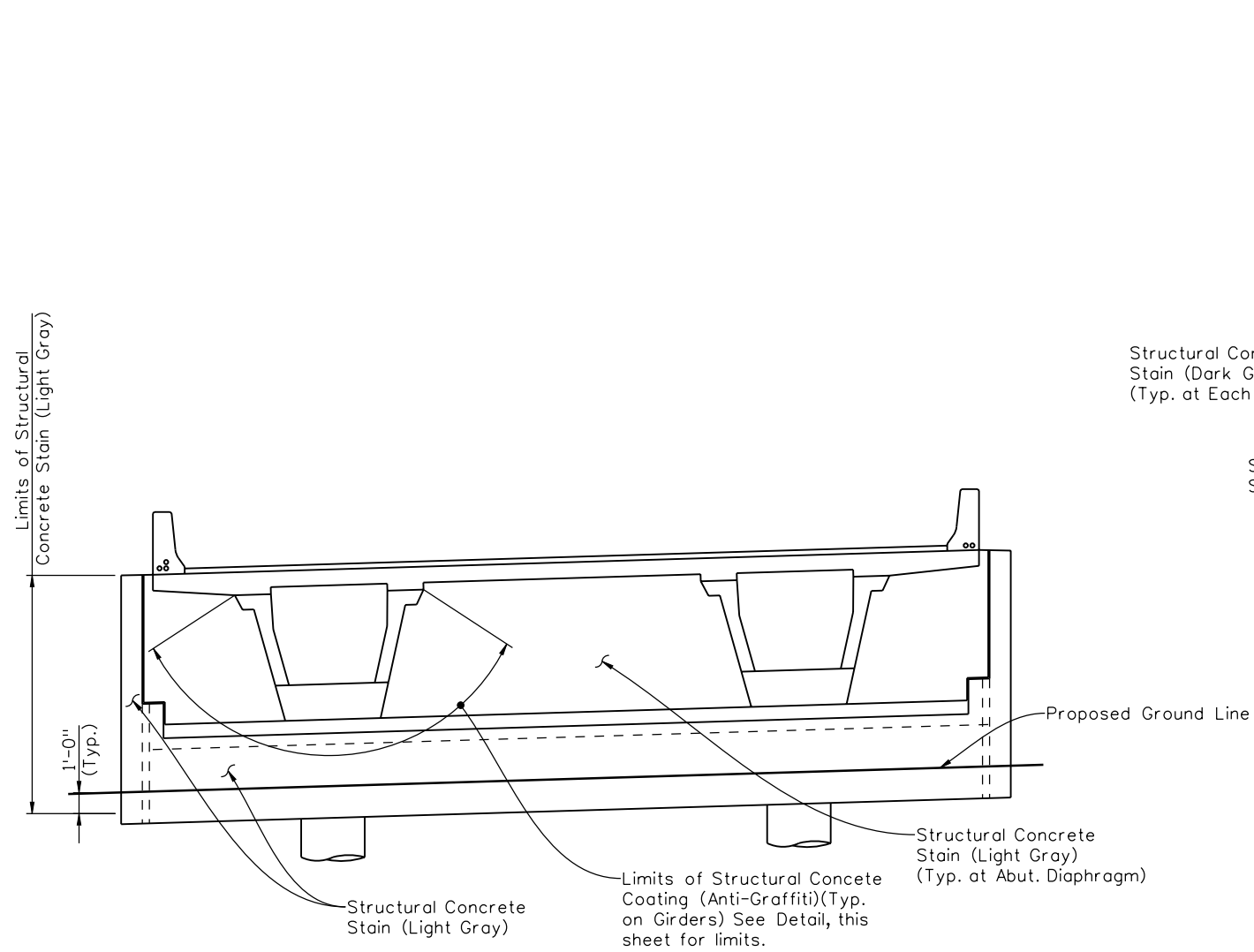
I-25/SANTA FE INTERCHANGE			
RAMP 1 FLYOVER			
TYPICAL SECTION & PROFILE GRADE			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly	Subset Sheets:	BR6 of 107
Sheet Subset:	Bridge		

Project No./Code
BR 0252-407
17783
Sheet Number 164 A

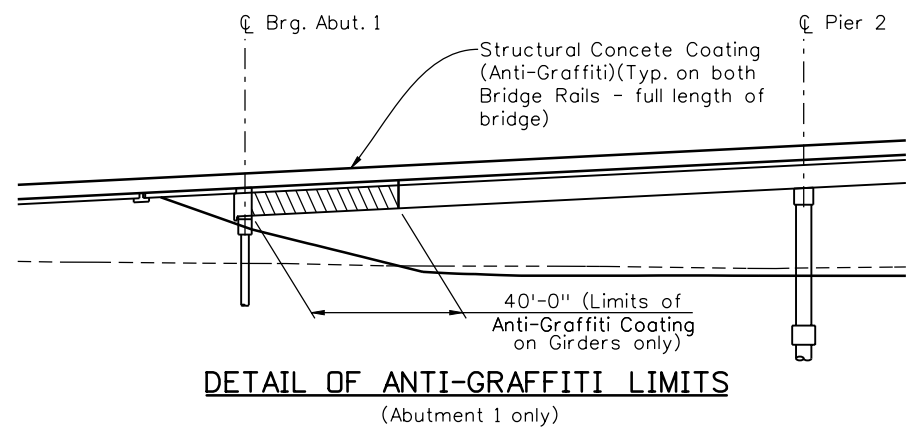
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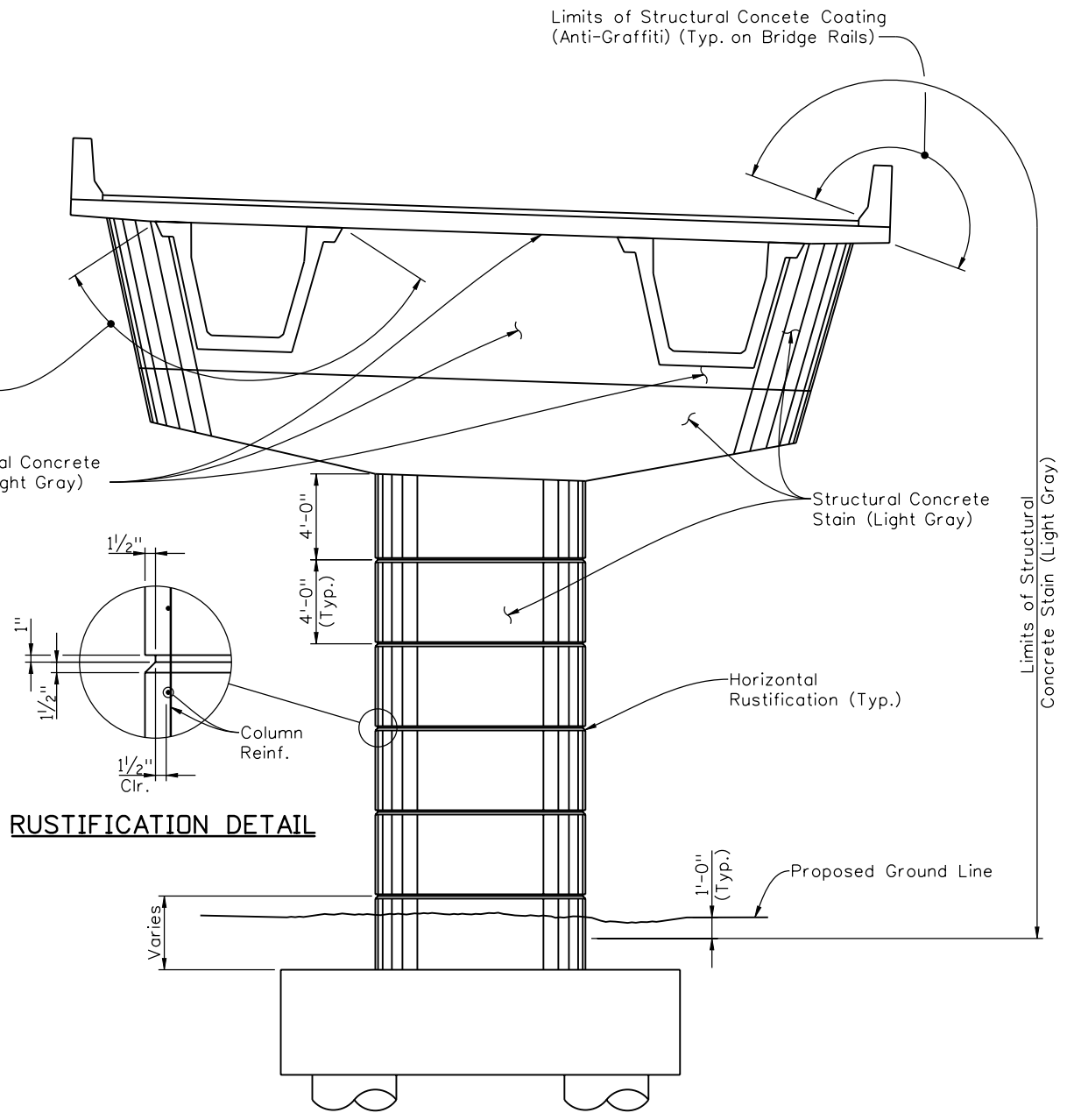
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
GAR	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By



ABUTMENT ARCHITECTURAL DETAIL
(Shown for Abutment 1, Abutment 12 similar)



DETAIL OF ANTI-GRAFFITI LIMITS
(Abutment 1 only)



RUSTIFICATION DETAIL

TYPICAL SUPERSTRUCTURE AND PIER ARCHITECTURAL DETAIL
(Shown for Pier 2, Others are similar)

NOTE:

1. A Colored Structural Concrete Stain Finish will be required, as shown, on exposed concrete surfaces. The color applied to the girders shall be Dark Gray, equivalent to Federal Standard 595B Color No. 26251. The color applied to the Bridge Rail, Deck Edges, and Abutment Fascia Panels shall be Light Gray, Color No. 26440.
2. An Anti-Graffiti Coating shall be applied to all Piers.

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ArchDetails.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

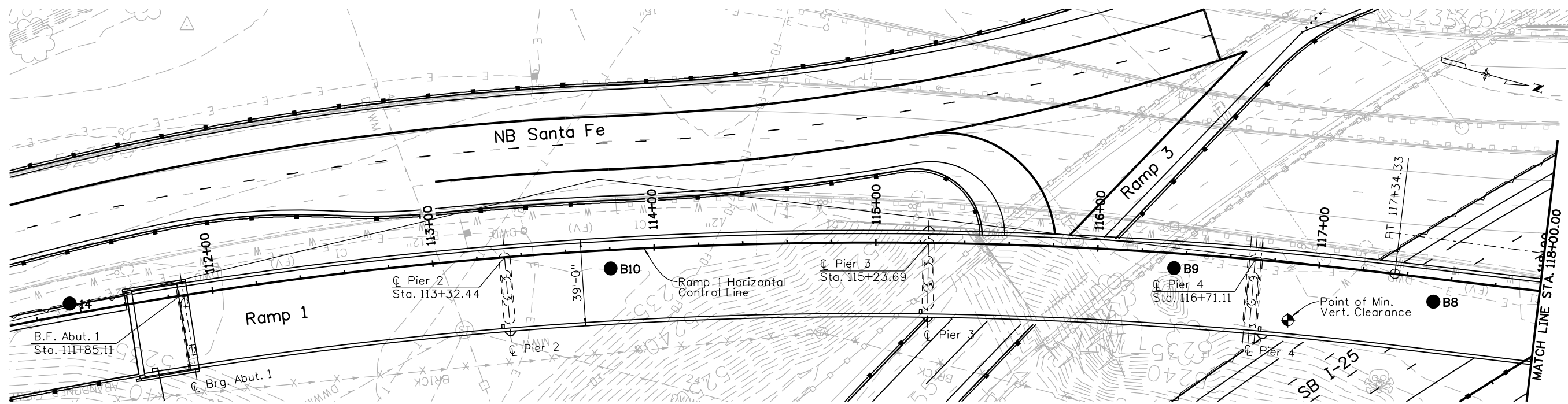
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Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)

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Region 6 **RLB**

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER ARCHITECTURAL DETAILS			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR7 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 165 B



LEGEND:

Topsoil (TS).	Sand and Gravel:	Drive sample, 2-inch I.D. California liner sample
Fill:	Sandstone Bedrock:	Drive sample, 1-3/8 inch I.D. standard sample
Sand:	Sandstone and Siltstone/Claystone Bedrock:	Small disturbed sample
Sand and Clay:	Siltstone/Claystone Bedrock:	Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage.

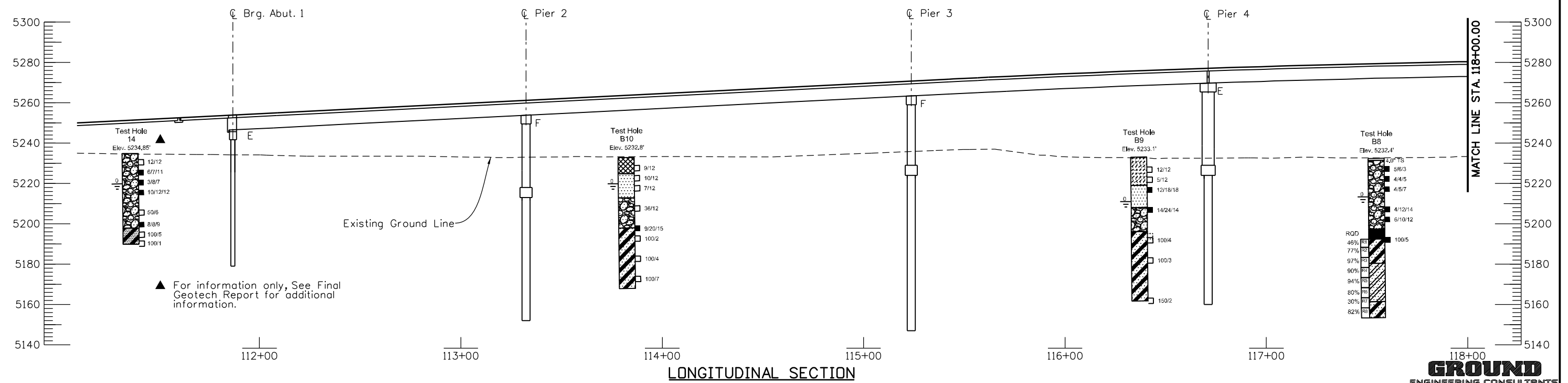
PLAN

23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.

20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.

Depth to water level and number of days after drilling that measurement was taken.

SEE BORING LOGS INFORMATION SHEETS FOR DETAILED DESCRIPTIONS AND LABORATORY TEST RESULTS.



Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 11/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_EngGeology01.dgn
 Horiz. Scale: 1:50 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	HHC

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 Region 6 RLB

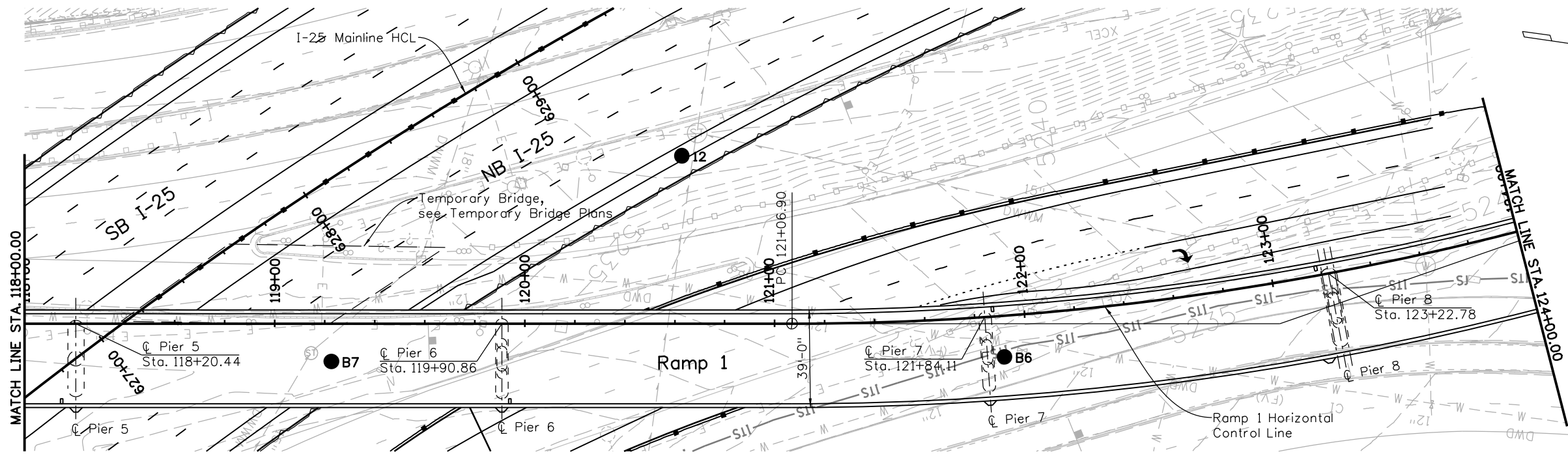
As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 ENGINEERING GEOLOGY (1 OF 3)
 Designer: H.H. Choing
 Detailer: K. Soellner
 Sheet Subset: Bridge
 Structure Numbers: F-16-XR
 Subset Sheets: BR8 of 107

GROUND ENGINEERING CONSULTANTS
 Project No./Code
 BR 0252-407
 17783
 Sheet Number 166 A



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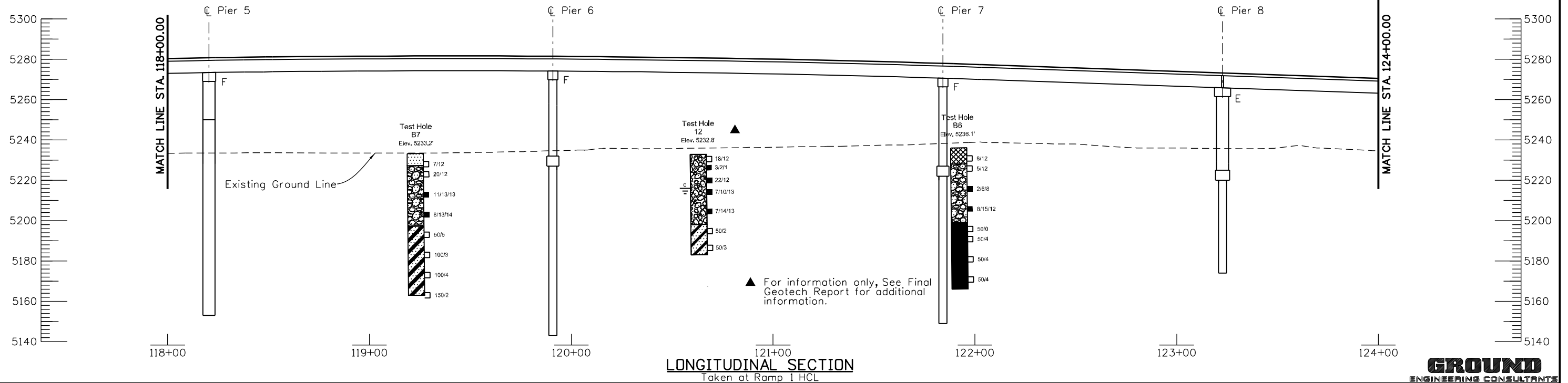
PLAN

LEGEND:

- Topsoil (TS).
- Fill.
- Sand.
- Sand and Clay.
- Sand and Gravel.
- Sandstone Bedrock.
- Sandstone and Siltstone/Claystone Bedrock.
- Siltstone/Claystone Bedrock.
- Drive sample, 2-inch I.D. California liner sample.
- Drive sample, 1-3/8 inch I.D. standard sample.
- Small disturbed sample.
- Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage.

- 23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.
- 20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.
- 0 Depth to water level and number of days after drilling that measurement was taken.

SEE BORING LOGS INFORMATION SHEETS FOR DETAILED DESCRIPTIONS AND LABORATORY TEST RESULTS.



LONGITUDINAL SECTION

Taken at Ramp 1 HCL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	08/10	KJS	09/10	Quantities By	KJS
Checked By	11/10	PRS	11/10	Checked By	TF

Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_EngGeology02.dgn

Horiz. Scale: 1:50 Vert. Scale: As Noted

Unit Information Unit Leader Initials

Sheet Revisions

Date:	Comments	Init.
12/3/10	Misc. Revisions	HHC

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Region 6

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No Revisions:

Revised:

Void:

I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
ENGINEERING GEOLOGY (2 OF 3)

Designer:	H.H. Choing	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR9 of 107

Project No./Code

BR 0252-407

17783

Sheet Number 167 A



10822 Teller Drive Suite 330
Littleton, CO 80127



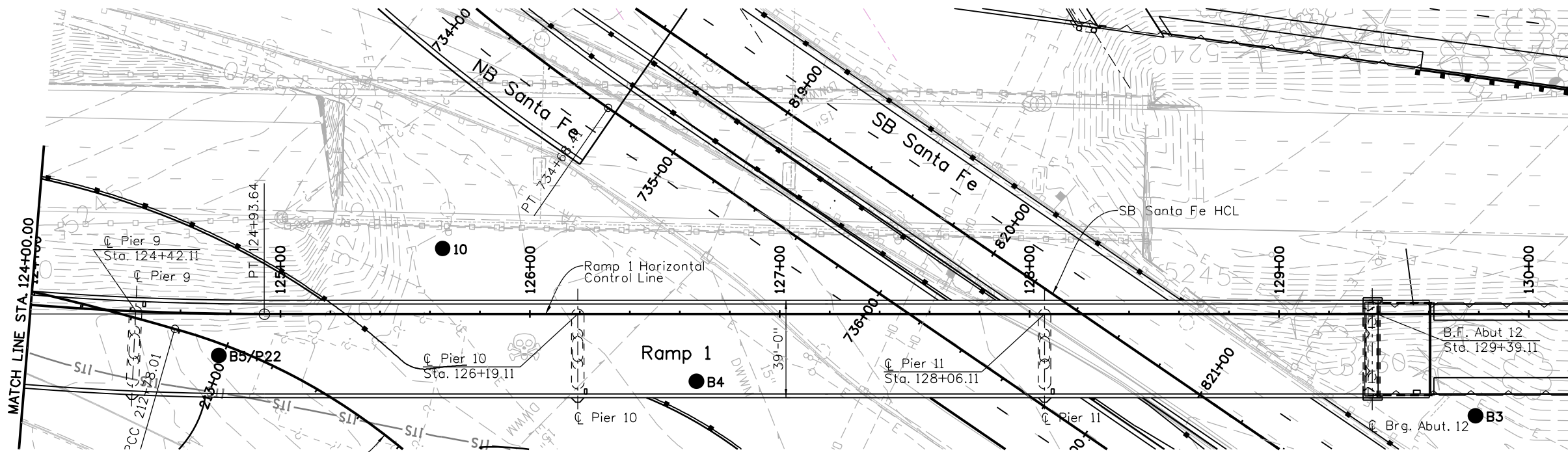
Project No./Code

BR 0252-407

17783

Sheet Number 167 A

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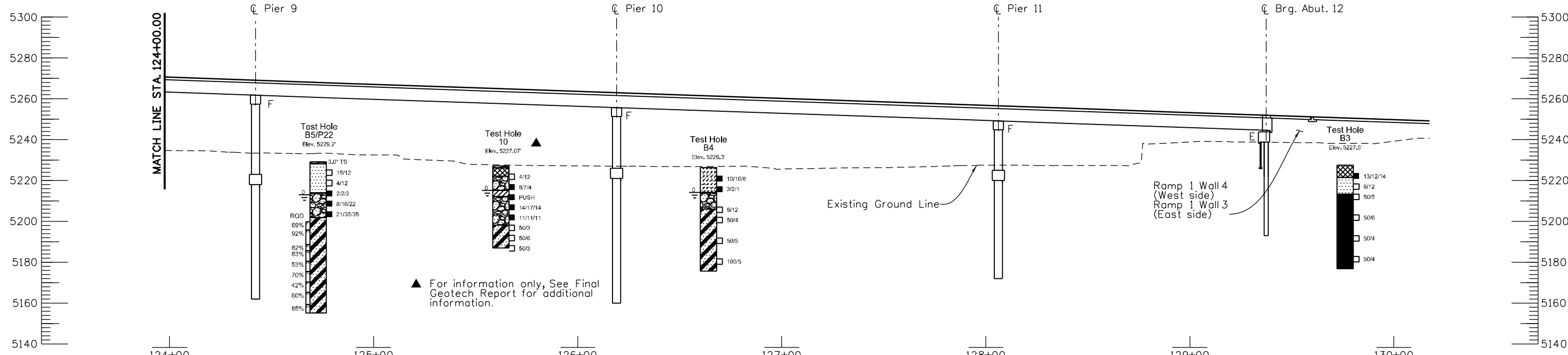


LEGEND:

- | | | |
|----------------|--|---|
| Topsoil (TS). | Sand and Gravel: | Drive sample, 2-inch I.D. California liner sample |
| Fill: | Sandstone Bedrock: | Drive sample, 1-3/8 inch I.D. standard sample |
| Sand: | Sandstone and Siltstone/Claystone Bedrock: | Small disturbed sample |
| Sand and Clay: | Siltstone/Claystone Bedrock: | Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage. |

- 23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.
- 20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.
- Depth to water level and number of days after drilling that measurement was taken.

SEE BORING LOGS INFORMATION SHEETS FOR DETAILED DESCRIPTIONS AND LABORATORY TEST RESULTS.



LONGITUDINAL SECTION
Taken at Ramp 1 HCL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By	11/10	Checked By	11/10	Checked By	11/10

Print Date: 11/22/2010	File Name: 16311BRDG_PH2_F-16-XR_EngGeology03.dgn
Horiz. Scale: 1:50	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	HHC

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

**I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
ENGINEERING GEOLOGY (3 OF 3)**

Designer: H.H. Choing
Detailer: K. Soellner

Structure Numbers: F-16-XR

Sheet Subset: Bridge
Subset Sheets: BR10 of 107

GROUND ENGINEERING CONSULTANTS

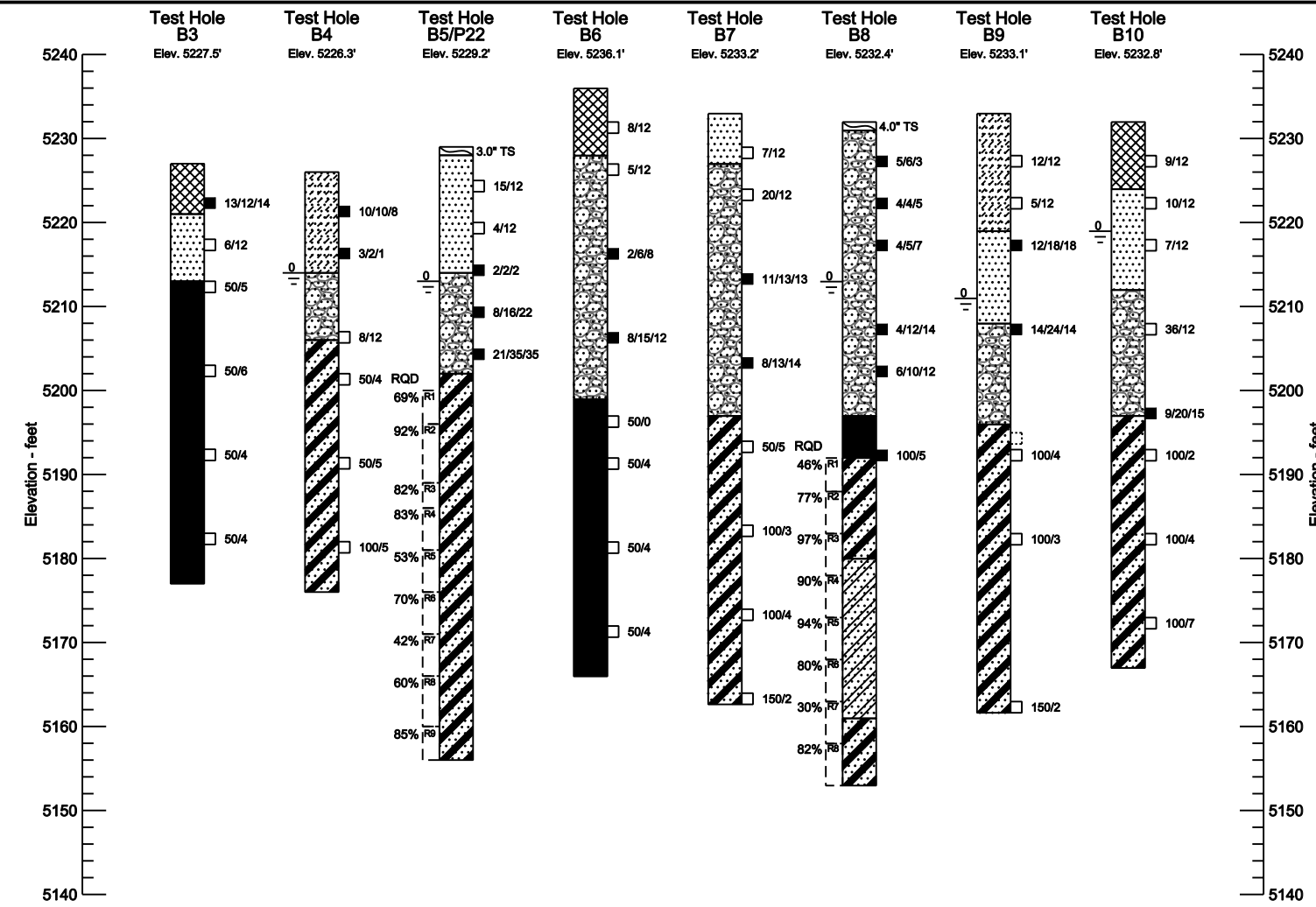
Project No./Code
BR 0252-407

17783

Sheet Number 168 A

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Revision Dates (Preliminary Stage Only)		Quantities	
INITIAL	DATE	INITIAL	DATE
Detail		Design	
INITIAL	DATE	INITIAL	DATE
Checked By		Checked By	



LEGEND:

- Topsoil (TS).
- Hot Bituminous Asphalt Pavement (HBAP).
- Fill: Clayey, silty, gravelly sand to sand and clay/silt, occasional deleterious material and debris, non-plastic to highly plastic, fine to coarse grained with gravels, very loose to very dense, slightly moist to moist, tan, light brown, dark brown.
- Sand: Silty to clayey, fine to coarse grained, occasional gravels, non-plastic to medium plastic, very loose to dense, slightly moist to wet, light brown, dark brown, tan, black, orange brown.
- Sand and Clay: Interlayered, very clayey or silty sand to very sandy clay, fine to coarse grained, occasional gravels, non-plastic to medium plastic, soft to very stiff or very loose to dense, slightly moist to wet, light brown, dark brown, orange brown, gray.
- Sand and Gravel: Occasionally silty, fine to coarse grained with gravels and cobbles, non-plastic to medium plastic, very loose to very dense, slightly moist to wet, tan, pink, brown, orange brown, black, occasionally iron stained.
- Sandstone and Siltstone/Claystone Bedrock: Interbedded, fine to coarse grained, non-plastic to highly plastic, medium hard to very hard, slightly moist to wet, brown, gray, blue gray, blue brown, green gray, blue gray, occasionally iron stained.
- Sandstone Bedrock: Slightly to very silty, fine to medium to coarse, non to low to moderate plastic, dense to very dense, slightly to highly cemented, slightly to very moist, and pale brown to brown to blue in color.
- Siltstone/Claystone Bedrock: Sandy and fine grained, hard to very hard, slightly moist to moist, low to highly plastic, gray, brown, dark brown.

Drive sample, 2-inch I.D. California liner sample Drive sample, 1-3/8 inch I.D. standard sample
 Small disturbed sample
 Core sample, 1.5-inch I.D. sample, indicates core run number and Rock Quality Designation (RQD) percentage.
 23/12 Drive sample blow count, indicates 23 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 12 inches.
 20/25/30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140-pound hammer falling 30 inches were required to drive the sampler 18 inches.
 Depth to water level and number of days after drilling that measurement was taken.

- NOTES:**
- Test holes were drilled from 01/26/09 to 02/26/09 and from 06/04/09 to 06/19/09 with 7-inch diameter hollow stem or 4-inch diameter continuous flight power augers.
 - Locations of the test holes were surveyed by the Owner's representative after completion of the test hole drilling.
 - Elevations of the test holes were surveyed by the Owner's representative and the logs of the test holes are drawn to elevation.
 - The test hole locations and elevations should be considered accurate only to the degree implied by the method used.
 - The lines between materials shown on the test hole logs represent the approximate boundaries between material types and the transitions may be gradual.
 - Groundwater level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level may occur with time.
 - Thicknesses of topsoil, HBAP and road base were generally drawn to 1 foot due to the test hole log scale. Actual thickness can vary.
 - The material descriptions on this legend are for general classification purposes only. See the full text of this report for descriptions of the site materials and related recommendations.
 - Location of test holes are shown in the "Subsurface Exploration Program Geotechnical and Pavement Recommendations for Phase 1 (Stage 1.2-1.4) and Phase 2, Task Order No.17, I-25 Santa Fe Alameda Interchange Reconstruction, Denver, Colorado", Dated January 19, 2010, and Ramp 1 Flyover Engineering Geology Sheets.

Sample Number	Depth (feet)	Classification	Grading Analysis (AASHTO)			Atterberg Limits			Water Content W %	Unconfined Compressive Strength (psf)	
			Percent		Silt and Clay	L.L. LW	P.L. PW	P.I. W			
			Gravel	Sand							
B3	4	Fill: Sandy Silt	A-4(3)	0	36	64	33	27	6	17.6	-
B3	9	Clayey Sand	A-4(10)	-	-	38	24	15	9	17.7	-
B3	24	Sandy Claystone	A-6(12)	-	-	84	39	25	14	20.4	-
B3	34	Sandy Siltstone	A-4(7)	-	-	71	37	27	10	32.3	880
B4	4	Very Clayey Sand	A-4(0)	0	57	43	25	18	7	6.6	-
B4	19	Gravelly Sand	A-2-4(0)	18	77	5	NV	-	NP	8.7	-
B4	29	Sandstone/Siltstone	A-4(1)	-	-	53	38	34	4	22.6	-
B4	44	Very Sandy Siltstone	A-5(4)	-	-	59	43	35	8	20.6	25,720
B5/P22	4	Silty Sand	A-4(0)	0	61	39	19	14	5	11.5	-
B5/P22	19	Gravelly Sand	A-1-b(0)	26	69	5	NV	-	NP	8.1	-
B5/P22	31-32	Sandstone/Siltstone	A-4(3)	-	-	53	40	32	8	14.4	351,843
B5/P22	54-55	Sandy Siltstone	A-5(B)	-	-	85	43	37	6	20.4	83,039
B5/P22	61-71	Sandy Siltstone	A-7-5(17)	-	-	89	51	36	15	18.6	166,078
B6	9	Gravelly Sand	A-1-b(0)	13	77	10	NV	-	NP	11.1	-
B6	29	Gravelly Sand	A-1-b(0)	17	74	9	NV	-	NP	9.7	-
B6	44	Sandy Siltstone	A-7-5(15)	-	-	80	51	35	16	24.1	7,360
B6	54	Sandy Siltstone	A-7-5(10)	-	-	78	46	35	11	18.6	-
B6	64	Siltstone	A-7-5(24)	-	-	97	53	34	19	20.5	9,840
B7	4	Silty Sand	A-2-4(0)	-	-	13	NV	-	NP	7.1	-
B7	9	Gravelly Sand	A-2-4(0)	-	-	2	NV	-	NP	3.8	-
B7	19	Gravelly Sand	A-1-b(0)	28	66	6	NV	-	NP	8.4	-
B7	39	Silty Sandstone	A-2-6(0)	-	-	19	38	25	13	25.8	11,840
B7	49	Silty Sandstone	A-2-4(0)	-	-	30	25	21	4	13.4	-

Sample Number	Depth (feet)	Classification	Grading Analysis (AASHTO)			Atterberg Limits			Water Content W %	Unconfined Compressive Strength (psf)	
			Percent		Silt and Clay	L.L. LW	P.L. PW	P.I. W			
			Gravel	Sand							
B8	14	Gravelly Sand	A-1-b(0)	14	80	6	NV	-	NP	2.7	-
B8	29	Gravelly Sand	A-1-b(0)	10	85	5	NV	-	NP	11.5	-
B8	56-57	Silty Sandstone	A-2-4(0)	-	-	17	NV	-	NP	11.5	224,206
B8	61-62	Silty Sandstone	A-2-4(0)	-	-	16	35	27	8	12.6	246,056
B8	73.5-74.5	Sandy Siltstone	A-7-5(14)	-	-	73	45	31	14	15.4	252,041
B9	5	Silty Sand	A-2-4(0)	0	72	28	NV	-	NP	8.6	-
B9	10	Sandy Clay	A-4(3)	0	12	88	20	13	7	10.0	-
B9	15	Gravelly Sand	A-1-b(0)	23	71	6	NV	-	NP	15.6	-
B9	38	Gravelly Sandstone	A-2-4(0)	26	66	8	15	12	3	10.9	-
B9	40	Silty Sandstone	A-2-4(0)	-	-	32	39	29	10	20.5	-
B10	9	Gravelly Sand	A-1-b(0)	29	68	3	NV	-	NP	1.5	-
B10	24	Gravelly Sand	A-1-b(0)	38	56	6	NV	-	NP	11.5	-
B10	34	Sand and Gravel	A-1-a(0)	46	48	6	NV	-	NP	8.0	-
B10	49	Sandy Siltstone	A-4(7)	-	-	82	36	28	8	16.6	-
B10	59	Silty Sandstone	A-7-5(2)	-	-	40	47	32	15	22.7	24,750

Print Date: 10/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_EngGeology04.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Date:	Comments	Init.

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

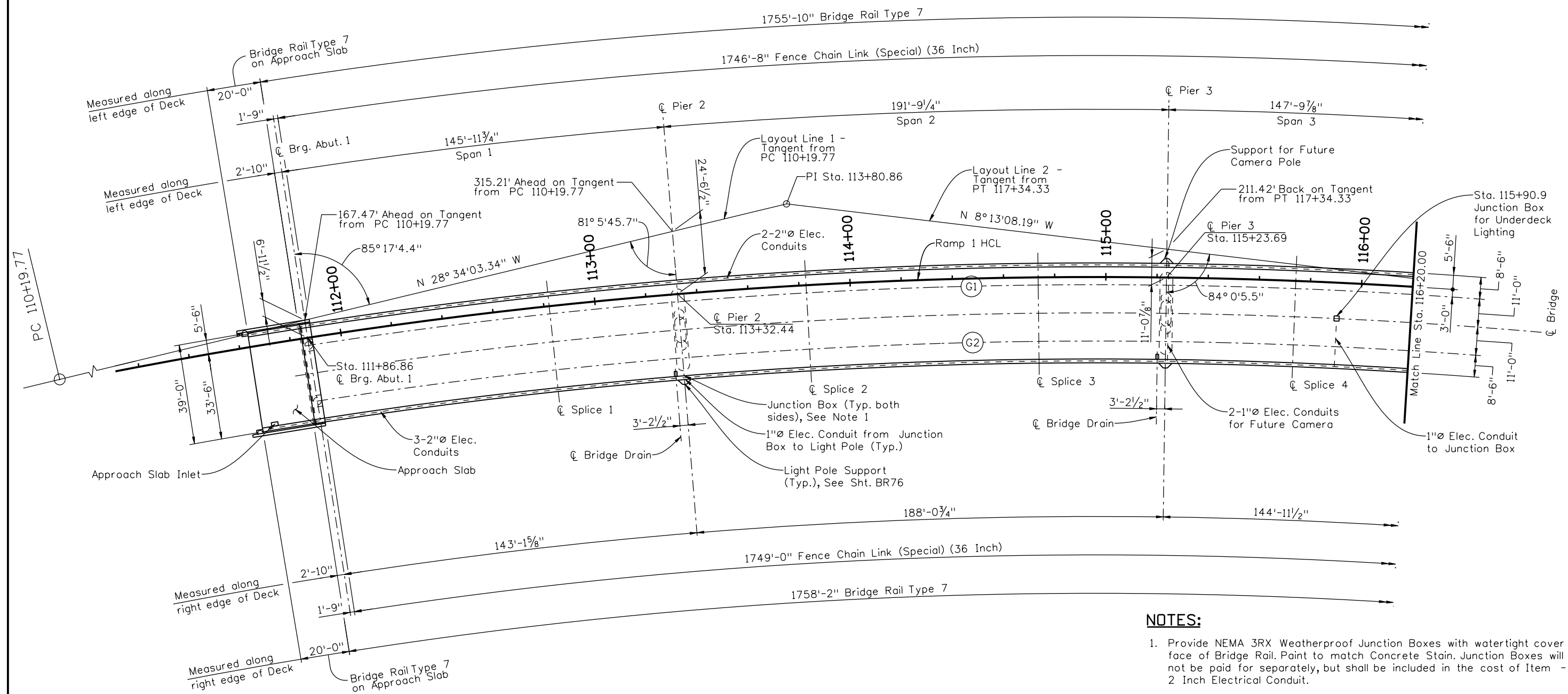
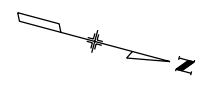
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Revised:
Void:

I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 BORING LOG INFORMATION

Designer:	H.H.Chiang	Structure Numbers	F-16-XR
Detailer:	H.Siders	Sheet Subset:	Bridge
Subset Sheets:		BR11 of 107	

Project No./Code
 BR 0252-407
 17783
 Sheet Number 169





NOTES:

1. Provide NEMA 3RX Weatherproof Junction Boxes with watertight cover in face of Bridge Rail. Paint to match Concrete Stain. Junction Boxes will not be paid for separately, but shall be included in the cost of Item - 2 Inch Electrical Conduit.
2. Provide Electrical Conduit Expansion Couplers at all expansion joints. Expansion Couplers will not be paid for separately, but shall be included in the cost of Item - 2 Inch Electrical Conduit.
3. Abutments and Piers are all perpendicular (radial) to the Horizontal Control Line.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ConstLay01.dgn	
Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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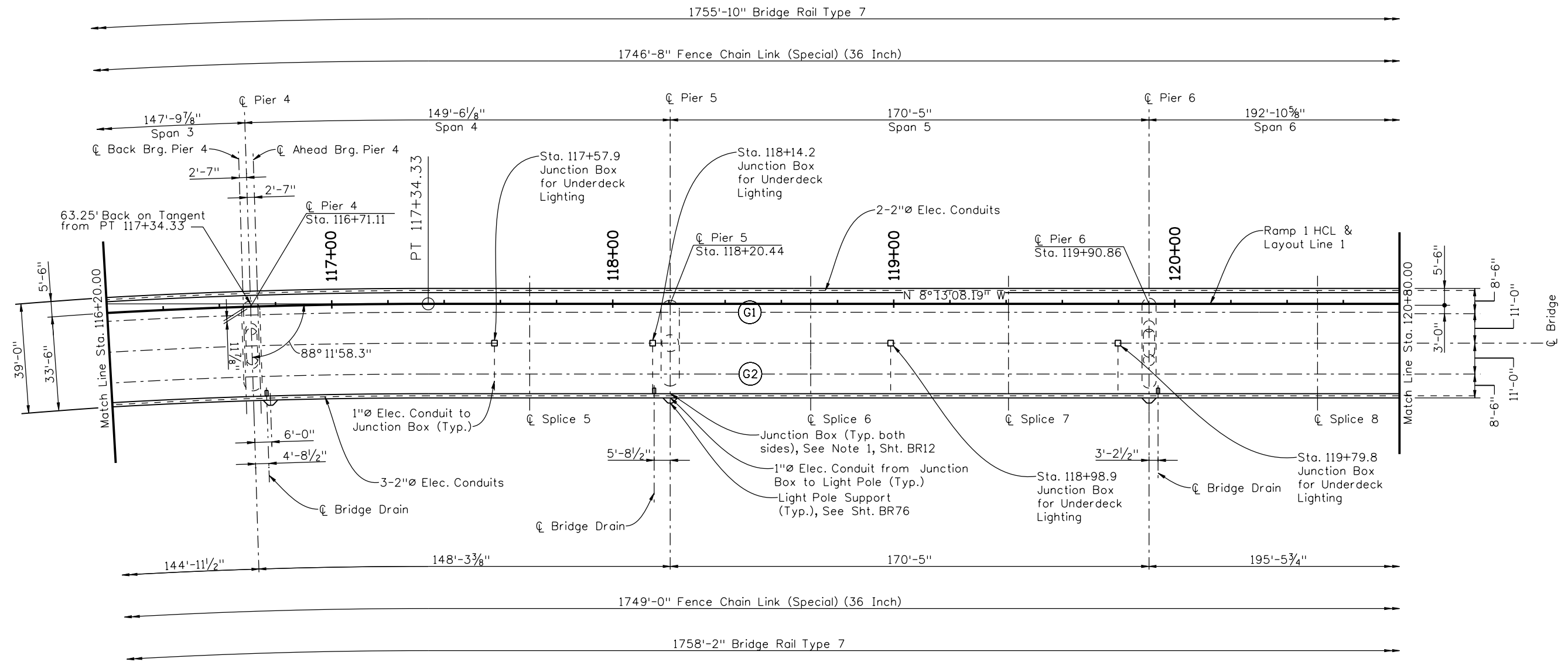
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR12 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 170 A

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Design		Detail		Quantities	
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Designed By	08/10	Checked By	09/10	Checked By	10/10
Checked By	11/10	Checked By	11/10	Checked By	11/10

Print Date: 11/22/2010	
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Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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Region 6 RLB

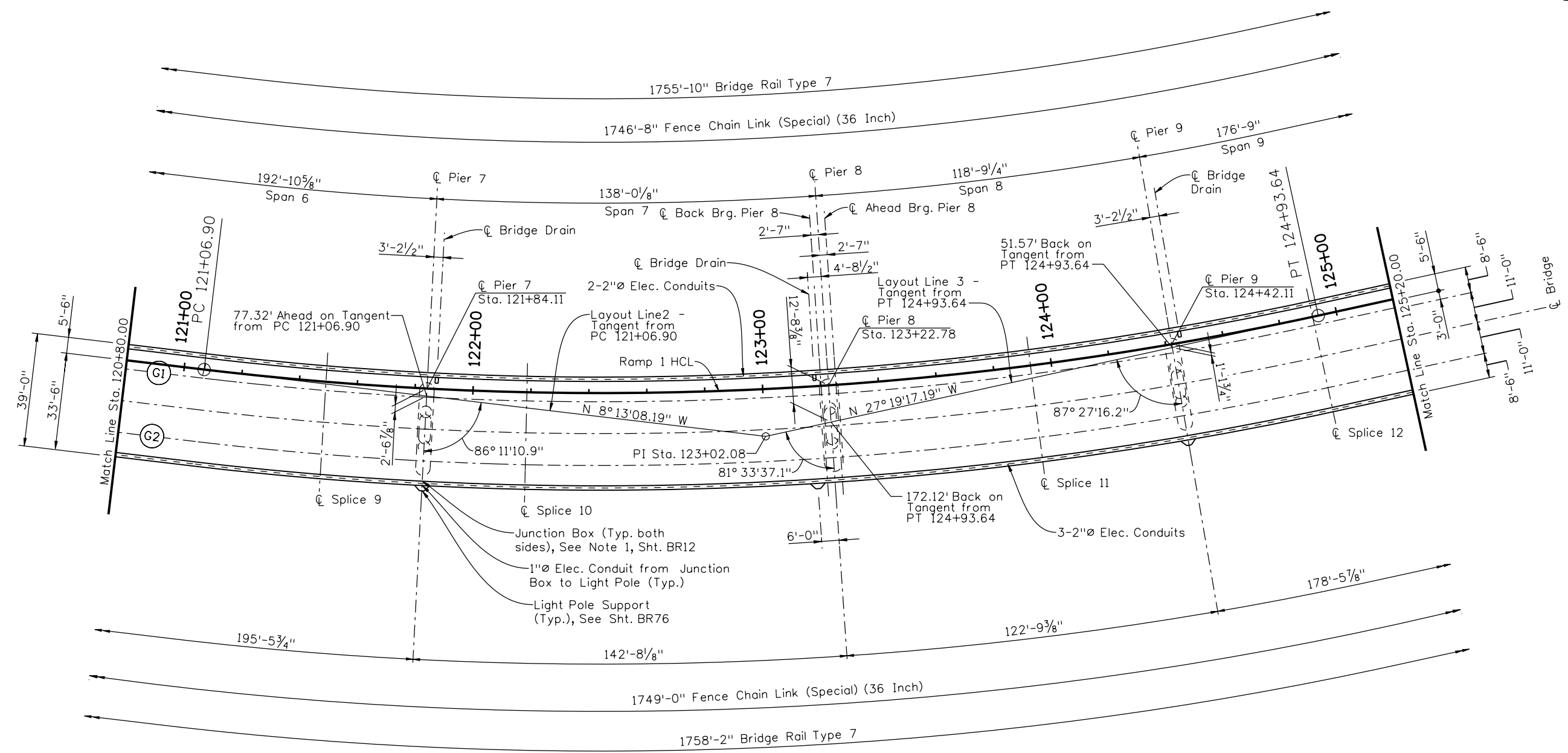
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Detailer:	M. Eberly	Subset Sheets:	BR13 of 107
Sheet Subset:	Bridge		

Project No./Code	BR 0252-407
	17783
Sheet Number	171 A

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Checked By	11/10	TF	11/10	Checked By	11/10

Print Date: 12/22/2010
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 Unit Information Unit Leader Initials

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Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)
			(R-4)

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 Region 6 RLB

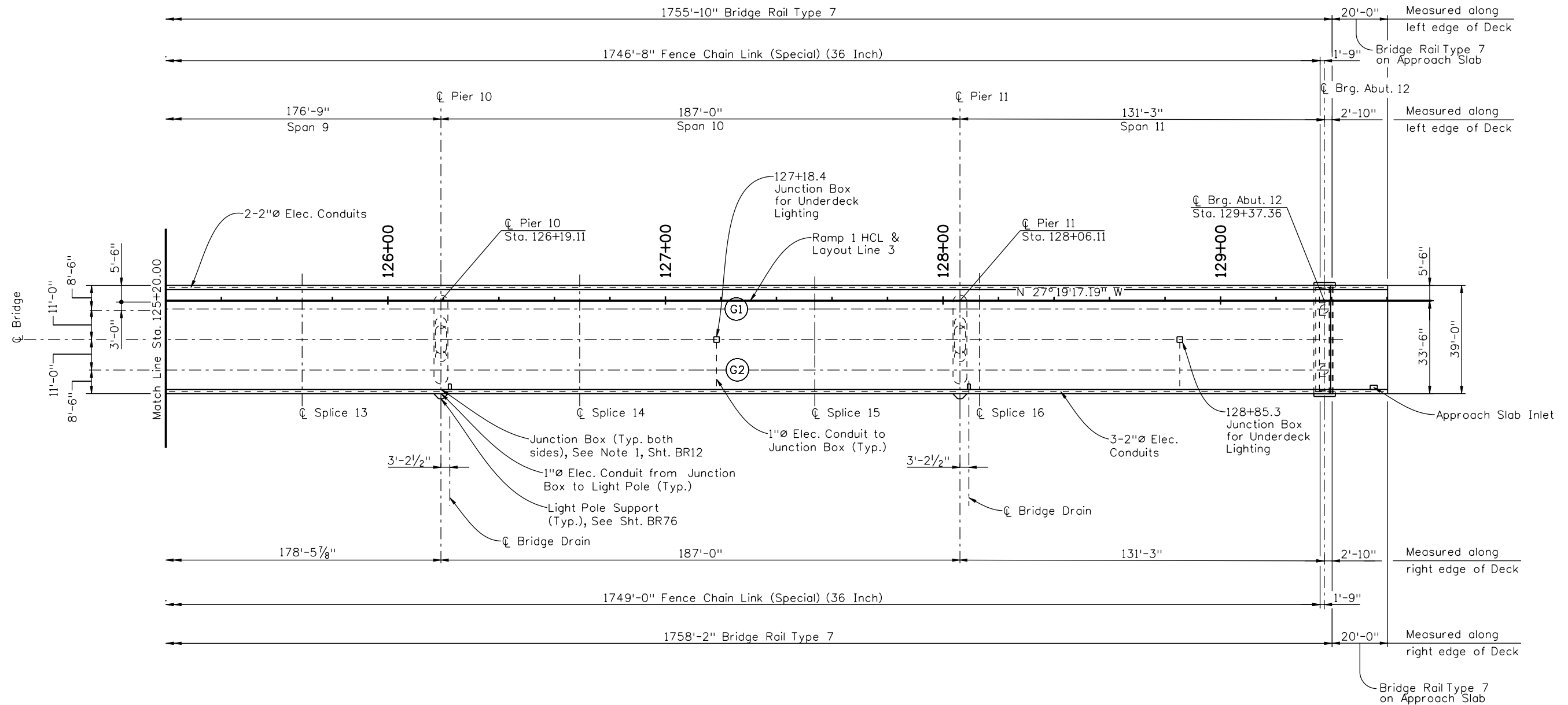
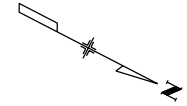
As Constructed
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Revised:
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I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER CONSTRUCTION LAYOUT (3 OF 4)			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	M. Eberly	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR14 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 172 B



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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	08/10	KJS	09/10	Quantities By	10/10
Checked By	11/10	PRS	11/10	Checked By	11/10

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ConstLay04.dgn	
Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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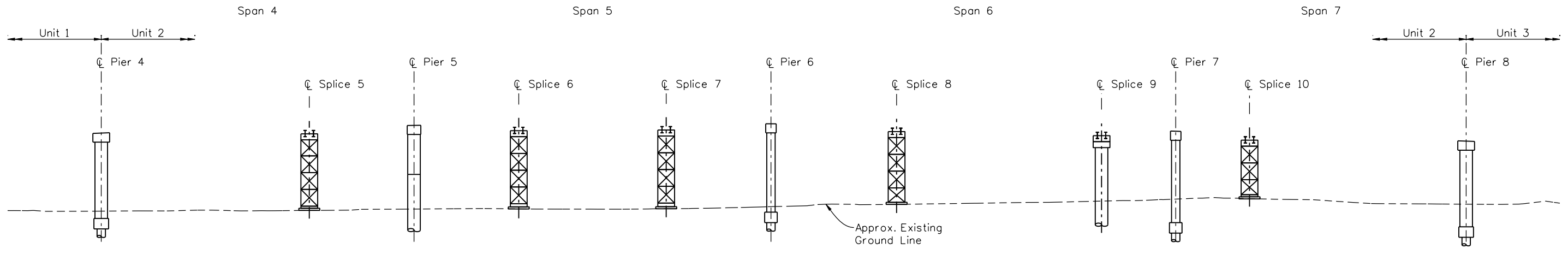
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER CONSTRUCTION LAYOUT (4 OF 4)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly		
Sheet Subset:	Bridge	Subset Sheets:	BR15 of 107

Project No./Code	BR 0252-407
	17783
Sheet Number	173 A

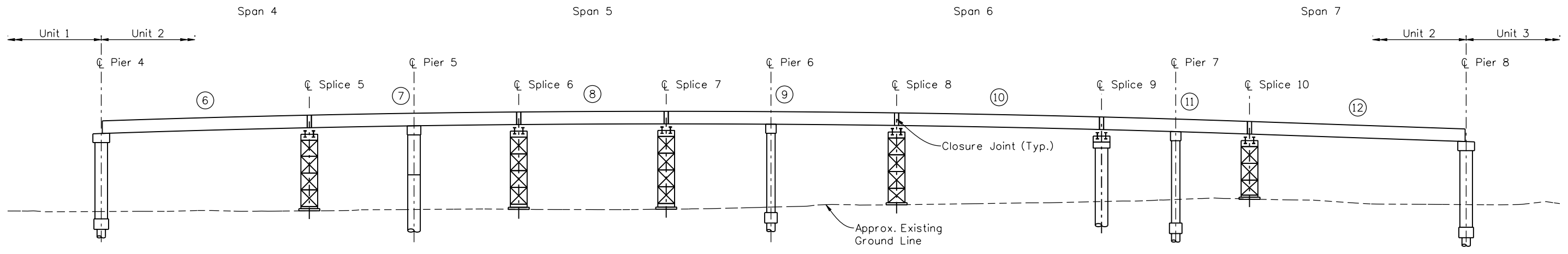
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UNIT 2 - PHASE 1

**PHASE 1
SEQUENCE OF OPERATIONS**

1. Construct foundations and piers.
2. Stress and grout bottom flange pt in precast girders prior to erecting.
3. Stress and grout pt in Piers 4 & 8 lower cap.
4. Erect shoring towers.



UNIT 2 - PHASE 2

**PHASE 2
SEQUENCE OF OPERATIONS**

1. Erect segments 6 through 12 in Unit 2. Pier girders are not set on interior piers. Girders 6L, 6R, 12L & 12R are set on permanent bearings at Piers 4 and 8.
2. Brace curved segments to falsework prior to releasing from cranes.
3. Cast closures at ends of segments, diaphragms over interior piers and diaphragms at Expansion Piers 4 and 8.
4. A maximum of 50psf construction live load is allowed on segments prior to casting diaphragms.
5. Set and grout precast deck panels over girders from Pier 4 to Pier 8. Panels may be set after all diaphragms reach 3500psi concrete strength. Panels between girders shall not be set until continuity tendons are stressed.
6. Stress and grout pt in interior piers.

Revision Dates	(Preliminary Stage Only)
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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By		KJS	08/10	Checked By	
Checked By				Checked By	

Print Date: 10/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ErectSeq01.dgn	
Horiz. Scale: 1:50 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

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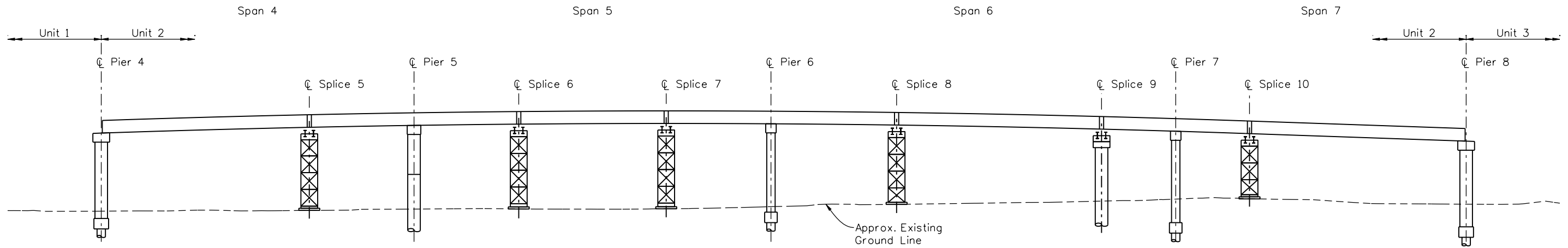
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
UNIT 2 ERECTION SEQUENCE (1 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR16 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 174

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UNIT 2 - PHASE 3

**PHASE 3
SEQUENCE OF OPERATIONS**

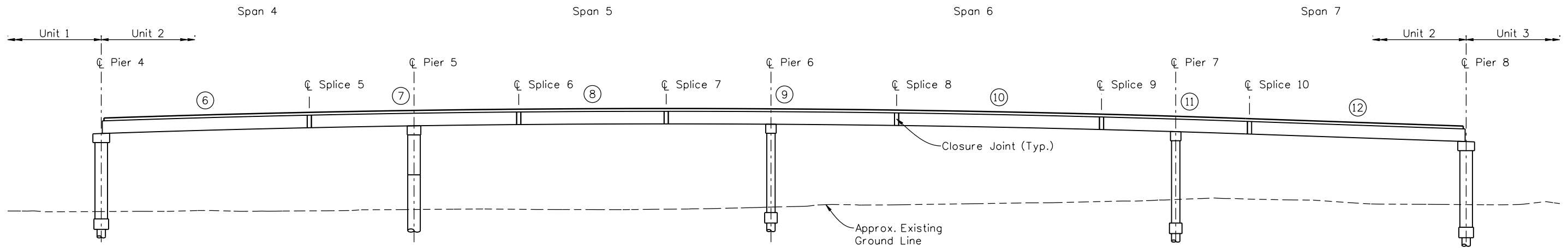
1. Stress continuity tendons 1 to 4.

**PHASE 3
STRESSING PROCEDURES**

1. Stress continuity tendon 1 from Pier 4 to Pier 8. Stress tendon on outside of curve to 50% Pjack, then stress tendon on inside of curve to 100% Pjack, then stress tendon on outside of curve to 100% Pjack.
2. Stress continuity tendon 2 from Pier 4 to Pier 8 similarly to tendon 1.
3. Stress continuity tendon 3 from Pier 4 to Pier 8 similarly to tendon 1.
4. Stress continuity tendon 4 from Pier 4 to Pier 8 similarly to tendon 1.

TENDON Pjack

Pjack = 527kips for tendons 1, 2, 3 & 4



UNIT 2 - PHASE 4

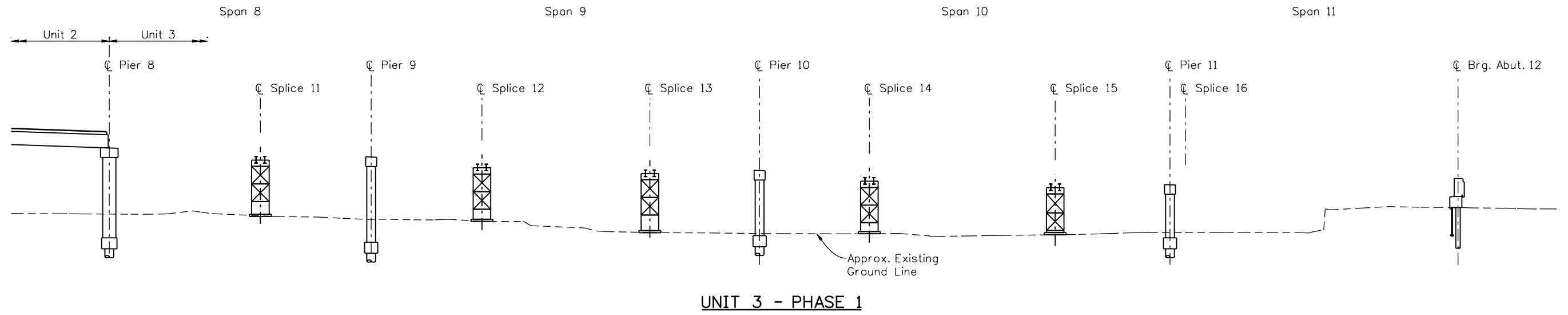
**PHASE 4
SEQUENCE OF OPERATIONS**

1. Grout all tendons after stressing is complete.
2. Falsework may be removed.
3. Set and grout precast deck panels between girders.
4. Form and cast deck slab.
5. Install expansion joints.
6. Cast barrier rails.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	08/10	K/S	09/10	Quantities By	10/10
Checked By	11/10	TF	11/10	Checked By	11/10

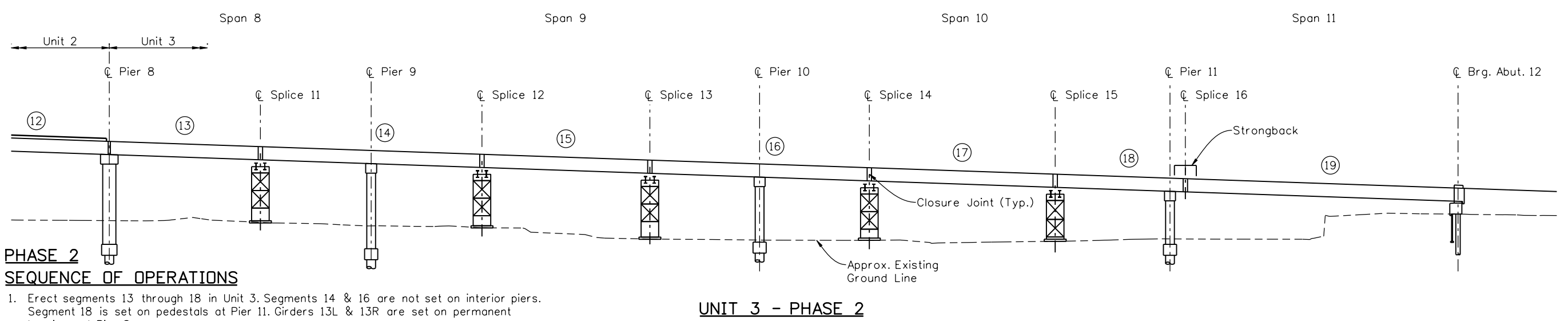
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File Name: 16311BRDG_PH2_F-16-XR_ErectSeq01a.dgn	Date:	Comments	Init.			UNIT 2 ERECTION SEQUENCE (2 OF 2)		
Horiz. Scale: 1:50	12/3/10	Misc. Revisions	GAR	10822 Teller Drive Suite 330 Littleton, CO 80127	Revised:	Designer: G. Reese	Structure Numbers	F-16-XR
Unit Information	Unit Leader Initials				Void:	Detailer: K. Soellner	Sheet Subset: Bridge	Subset Sheets: BR17 of 107

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PHASE 1
SEQUENCE OF OPERATIONS

1. Construct foundations, abutments and piers.
2. Stress and grout bottom flange pt in precast girders prior to erecting.
3. Erect shoring towers.



PHASE 2
SEQUENCE OF OPERATIONS

1. Erect segments 13 through 18 in Unit 3. Segments 14 & 16 are not set on interior piers. Segment 18 is set on pedestals at Pier 11. Girders 13L & 13R are set on permanent bearings at Pier 8.
2. Brace curved segments to falsework prior to releasing from cranes.
3. Cast Pier 11 diaphragm.
4. Stress and grout pt in Pier 11 after diaphragm concrete reaches 3500 psi concrete strength.
- * 5. Erect segment 19. Segments 19L & 19R are hung from strongbacks at Splice 16 and set on bearing pads at Abutment 12.
6. Cast closures at ends of segments, diaphragms over interior piers and diaphragms at Expansion Pier 8 and Abutment 12.
7. A maximum of 50psf construction live load is allowed on segments prior to casting diaphragms.
8. Set and grout precast deck panels over girders from Pier 8 to Abutment 12. Panels may be set after all diaphragms reach 3500psi concrete strength. Panels between girders shall not be set until continuity tendons are stressed.
9. Stress and grout pt in interior piers.

* Segment 19 shall not be erected until Pier 11 diaphragm concrete has reached 3500 psi concrete strength, and pt bars are stressed and grouted.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010	Unit Information	Unit Leader Initials
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10822 Teller Drive Suite 330 Littleton, CO 80127		

Sheet Revisions		
Date:	Comments	Init.
1/3/11	Misc. Revisions	GAR

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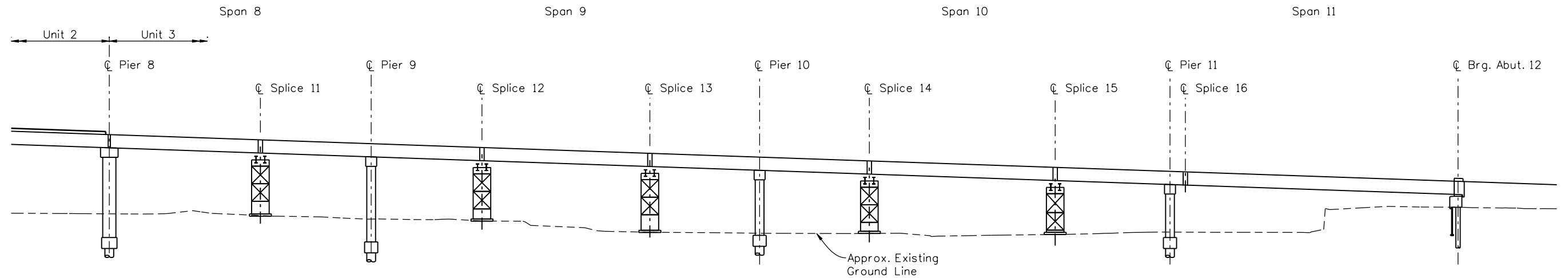
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I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
UNIT 3 ERECTION SEQUENCE (1 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR18 of 107	

Project No./Code	BR 0252-407
	17783
Sheet Number	176 B

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UNIT 3 - PHASE 3

**PHASE 3
SEQUENCE OF OPERATIONS**

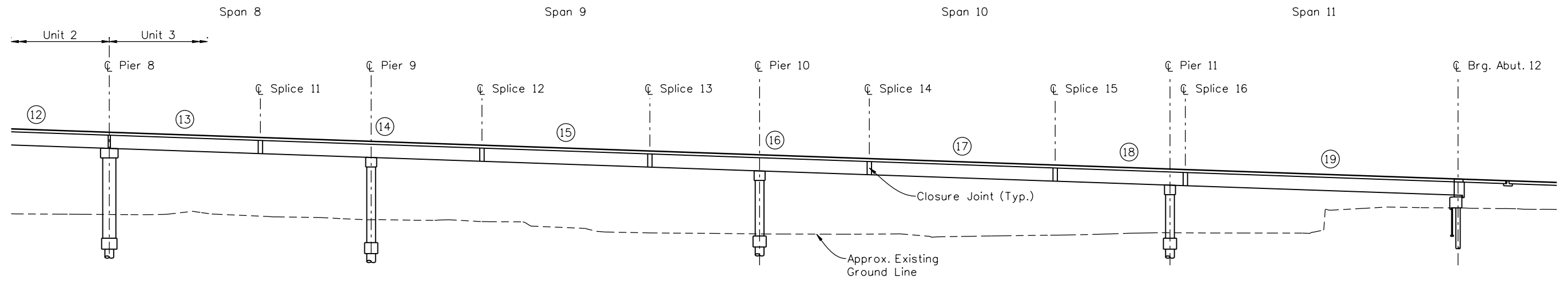
1. Stress continuity tendons 1 to 4.

**PHASE 3
STRESSING PROCEDURES**

1. Stress continuity tendon 1 from Pier 8 to Abutment 12. Stress tendon on outside of curve to 50% Pjack, then stress tendon on inside of curve to 100% Pjack, then stress tendon on outside of curve to 100% Pjack.
2. Stress continuity tendon 2 from Pier 8 to Abutment 12 similarly to tendon 1.
3. Stress continuity tendon 3 from Pier 8 to Abutment 12 similarly to tendon 1.
4. Stress continuity tendon 4 from Pier 8 to Abutment 12 similarly to tendon 1.

TENDON Pjack

Pjack = 527kips for tendons 1, 2, 3 & 4



UNIT 3 - PHASE 4

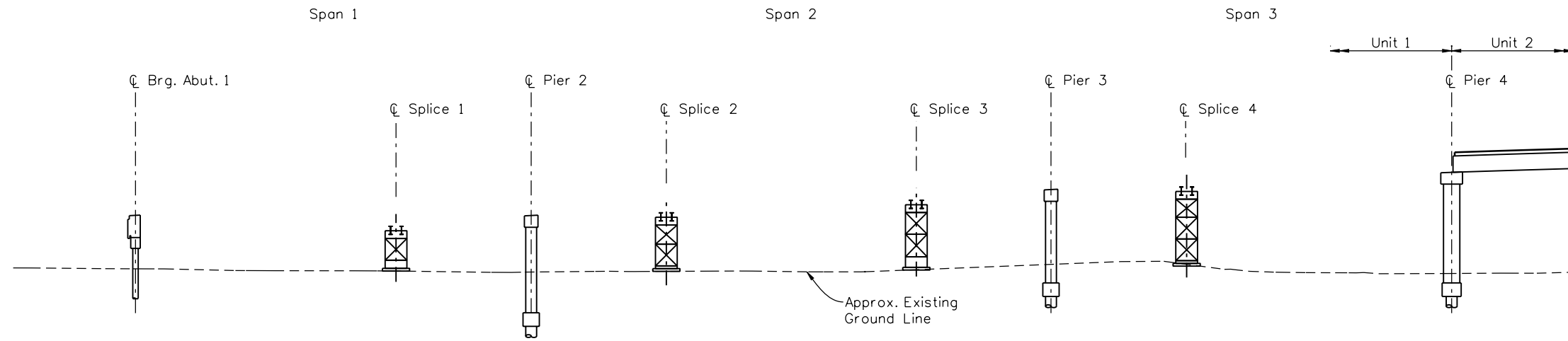
**PHASE 4
SEQUENCE OF OPERATIONS**

1. Grout all tendons after stressing is complete.
2. Falsework may be removed.
3. Set and grout precast deck panels between girders.
4. Form and cast deck slab.
5. Install expansion joints.
6. Cast barrier rails.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	08/10	KJS	09/10	KJS	10/10
Checked By	11/10	PRS	11/10	TF	11/10
		Detailed By		Quantities By	
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Print Date: 11/22/2010	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER		Project No./Code BR 0252-407 17783 Sheet Number 177 A
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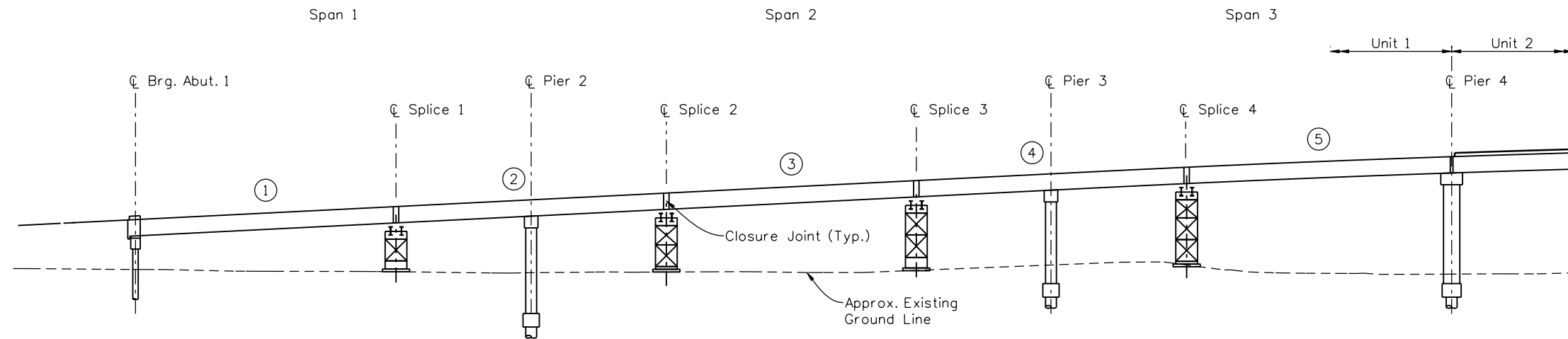
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UNIT 1 - PHASE 1

**PHASE 1
SEQUENCE OF OPERATIONS**

1. Construct foundations, abutments and piers.
2. Stress and grout bottom flange pt in precast girders prior to erecting.
3. Erect shoring towers.



UNIT 1 - PHASE 2

**PHASE 2
SEQUENCE OF OPERATIONS**

1. Erect segments 1 through 5 in Unit 1. Pier girders are not set on interior piers. Girders 1L & 1R are set on bearing pads at Abutment 1. Girders 5L & 5R are set on permanent bearings at Pier 4.
2. Brace curved segments to falsework prior to releasing from cranes.
3. Cast closures at ends of segments, diaphragms over interior piers and diaphragms at Abutment 1 and Expansion Pier 4.
4. A maximum of 50psf construction live load is allowed on segments prior to casting diaphragms.
5. Set and grout precast deck panels over girders from Abutment 1 to Pier 4. Panels may be set after all diaphragms reach 3500psi concrete strength. Panels between girders shall not be set until continuity tendons are stressed.
6. Stress and grout pt in interior piers.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10

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Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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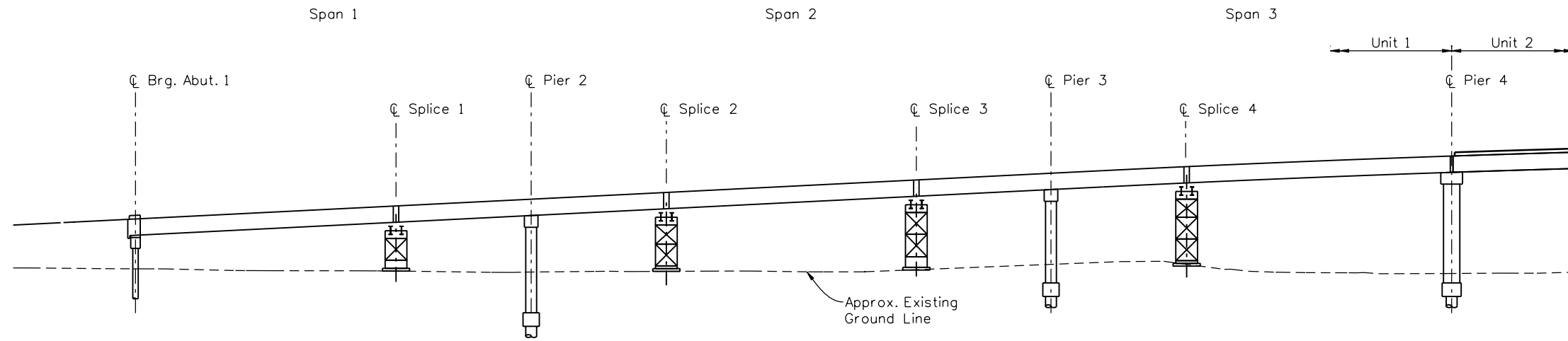
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Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR20 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 178 A

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UNIT 1 - PHASE 3

**PHASE 3
SEQUENCE OF OPERATIONS**

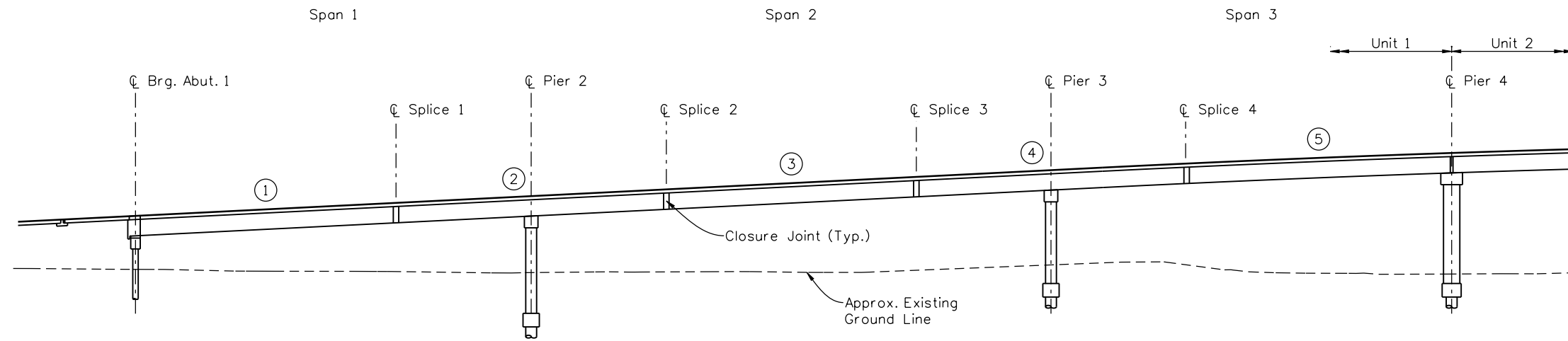
1. Stress continuity tendons 1 to 4.

**PHASE 3
STRESSING PROCEDURES**

1. Stress continuity tendon 1 from Abutment 1 to Pier 4. Stress tendon on outside of curve to 50% Pjack, then stress tendon on inside of curve to 100% Pjack, then stress tendon on outside of curve to 100% Pjack.
2. Stress continuity tendon 2 from Abutment 1 to Pier 4 similarly to tendon 1.
3. Stress continuity tendon 3 from Abutment 1 to Pier 4 similarly to tendon 1.
4. Stress continuity tendon 4 from Abutment 1 to Pier 4 similarly to tendon 1.

TENDON Pjack

Pjack = 527kips for tendons 1, 2, 3 & 4



UNIT 1 - PHASE 4

**PHASE 4
SEQUENCE OF OPERATIONS**

1. Grout all tendons after stressing is complete.
2. Falsework may be removed.
3. Set and grout precast deck panels between girders.
4. Form and cast deck slab.
5. Install expansion joints.
6. Cast barrier rails.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	08/10	KJS	09/10	KJS	10/10
Checked By	11/10	PRS	11/10	TF	11/10
Detailed By				Checked By	
Checked By				Checked By	

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ErectSeq03a.dgn	
Horiz. Scale: 1:50 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

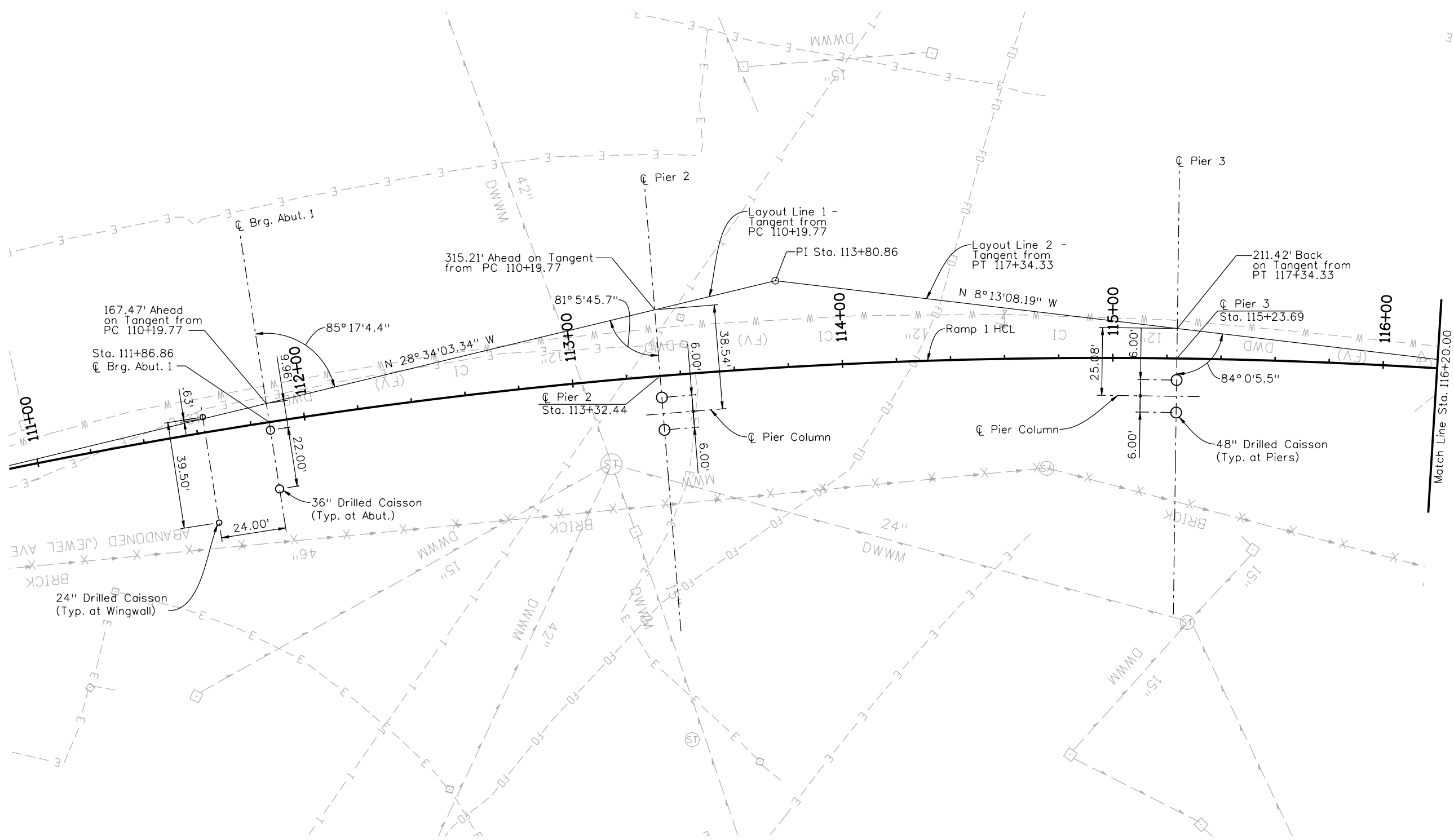
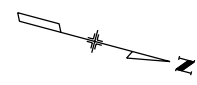
Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
UNIT 1 ERECTION SEQUENCE (2 OF 2)			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR21 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 179 A

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 11/22/2010 CDDT-PDFDraftQuality_XM.plt



Revision Dates (Preliminary Stage Only)	

Design		Detail		Quantities	
Designed By	DATE	INITIAL	DATE	INITIAL	DATE
GR/PRS	08/10		08/10		
Checked By					

Print Date: 10/22/2010	0000
File Name: 16311BRDG_PH2_F-16-XR_FndLoy01.dgn	
Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



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Region 6 RLB

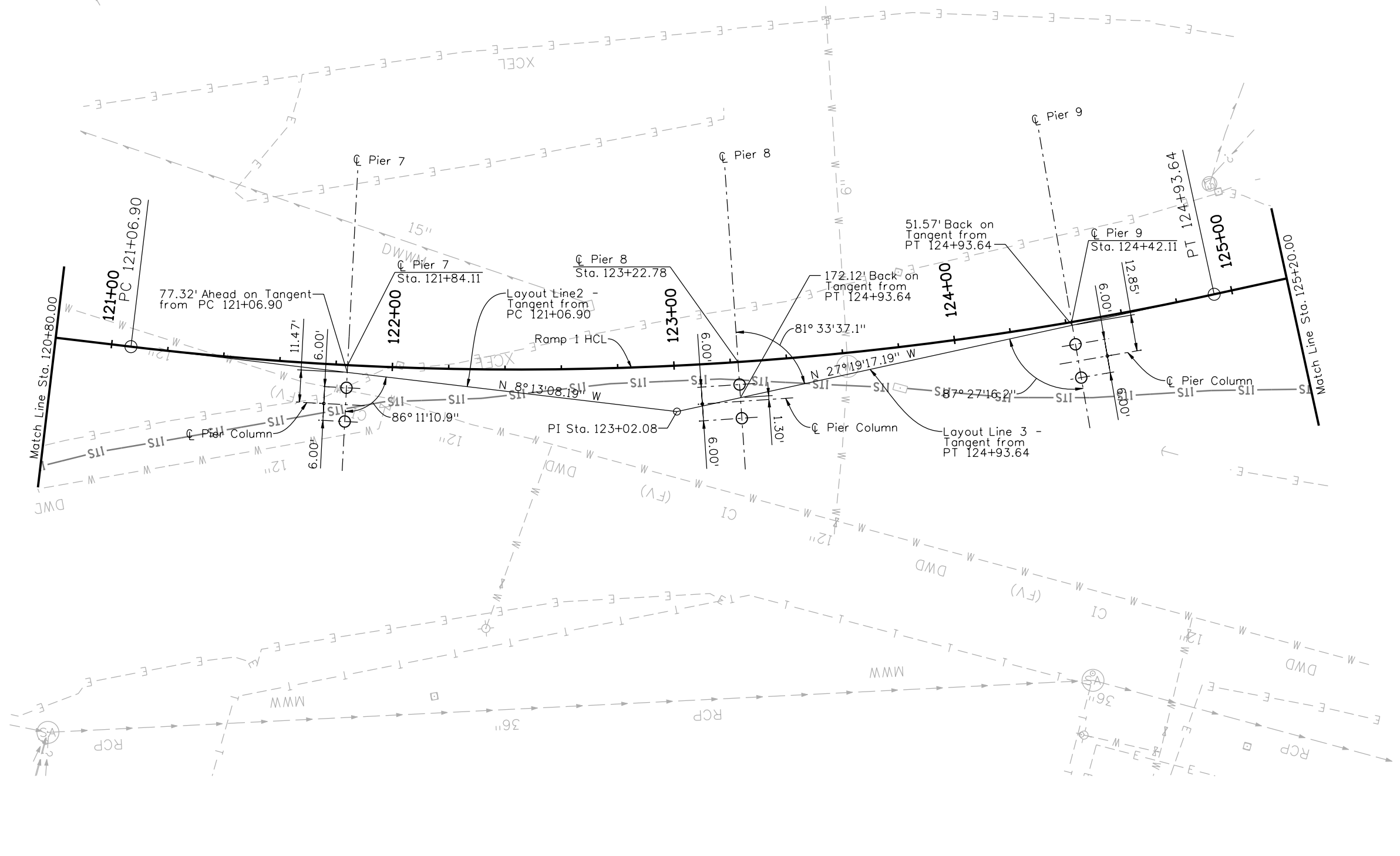
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly		
Sheet Subset:	Bridge	Subset Sheets:	BR22 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 180

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Sheet Revisions		
Date:	Comments	Init.

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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER CAISSON LAYOUT (3 OF 4)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly	Subset Sheets:	BR24 of 107
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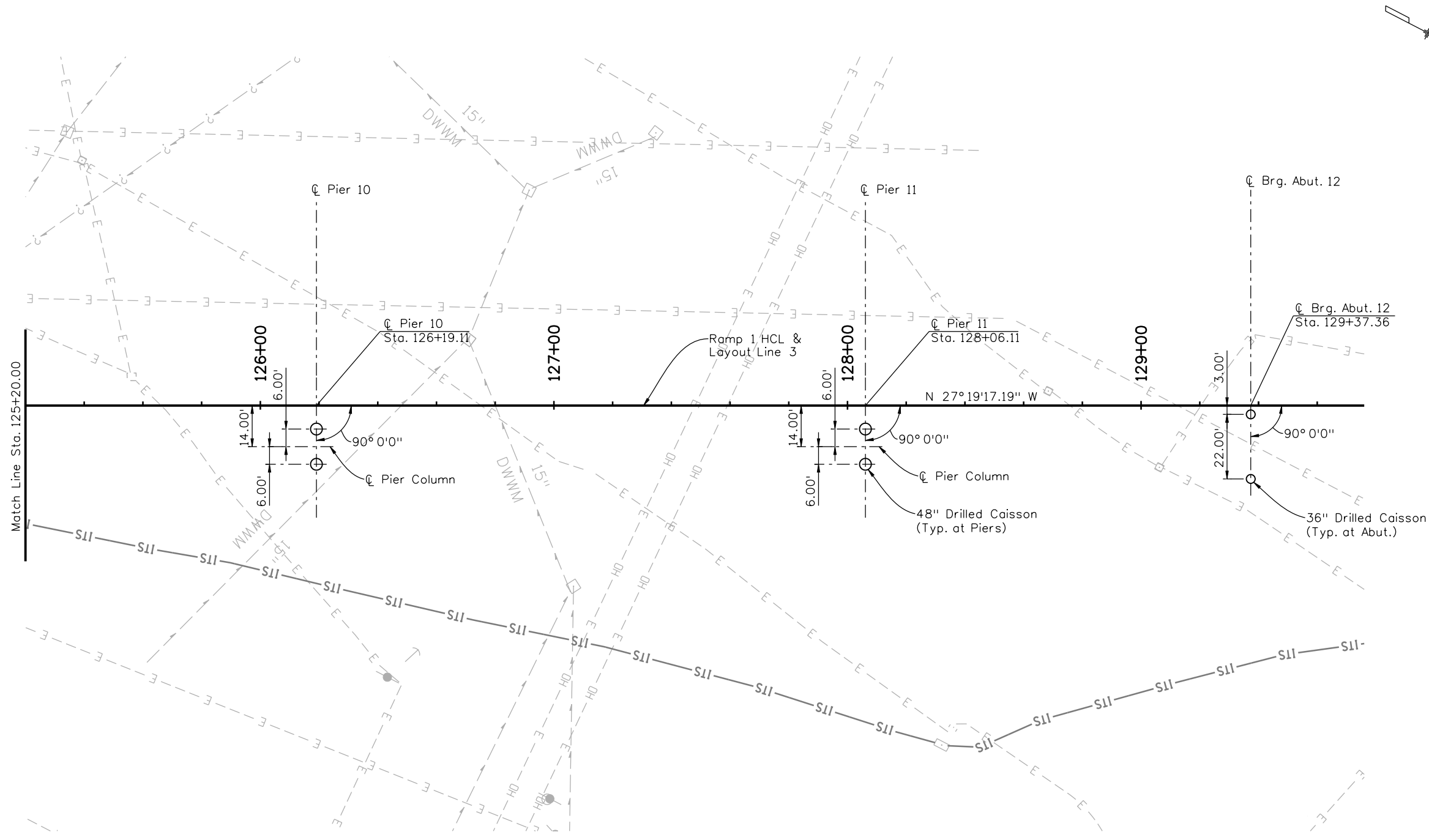
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	17783
Sheet Number	182

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Checked By PRS	11/10	TF	11/10	Checked By TF	11/10



Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_FndLay04.dgn	
Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

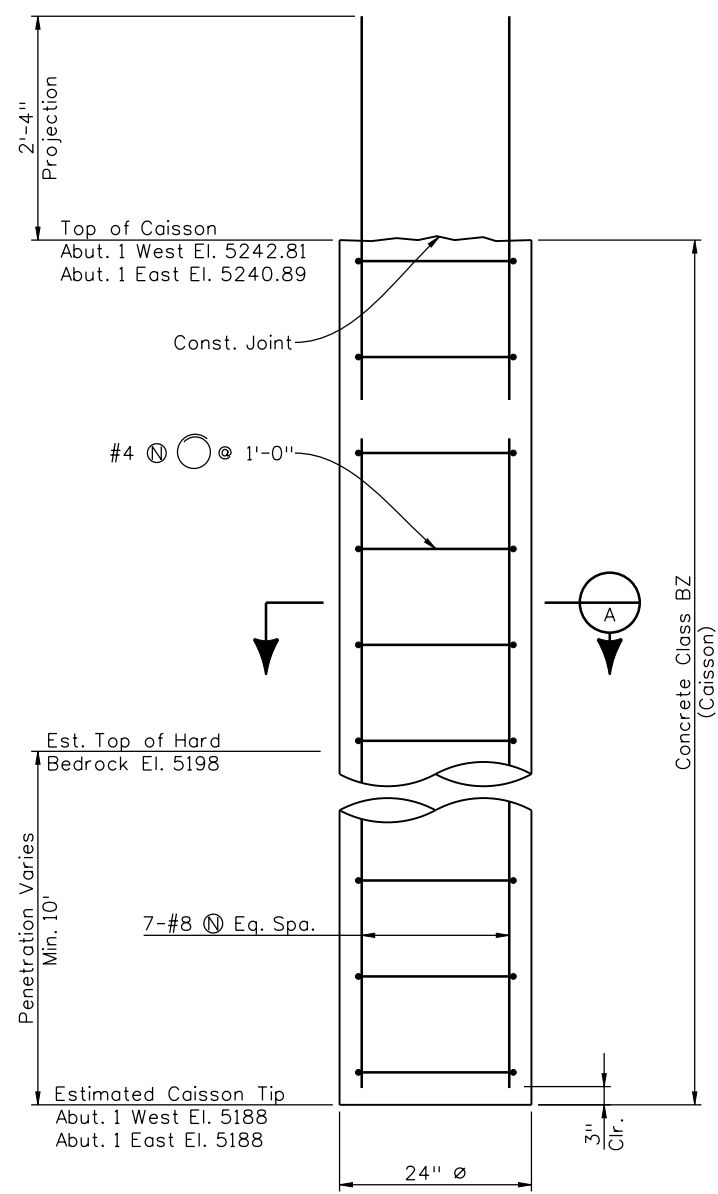
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly	Subset Sheets:	BR25 of 107
Sheet Subset:	Bridge		

Project No./Code
BR 0252-407
17783
Sheet Number 183 A

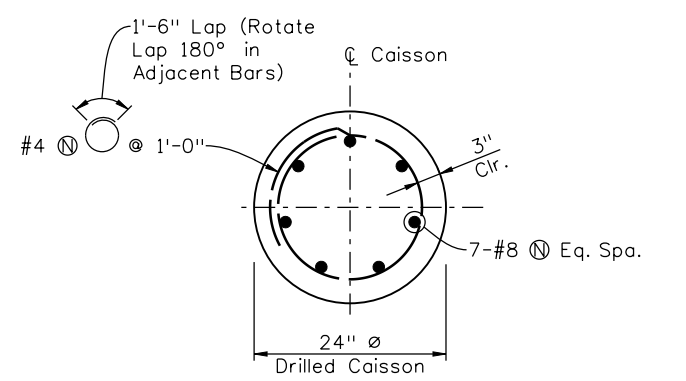


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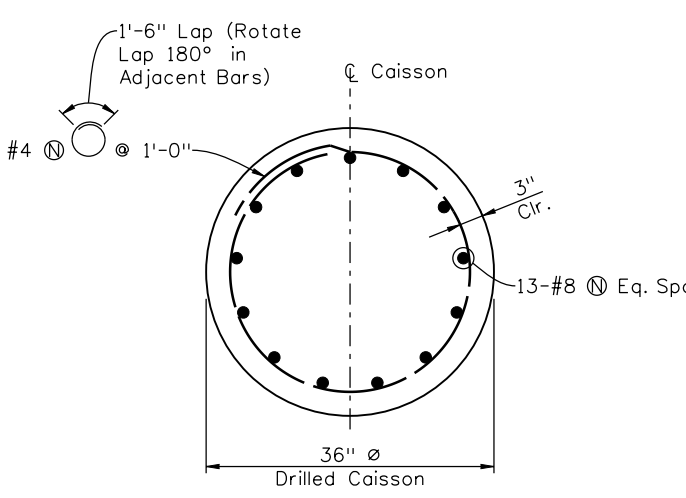
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DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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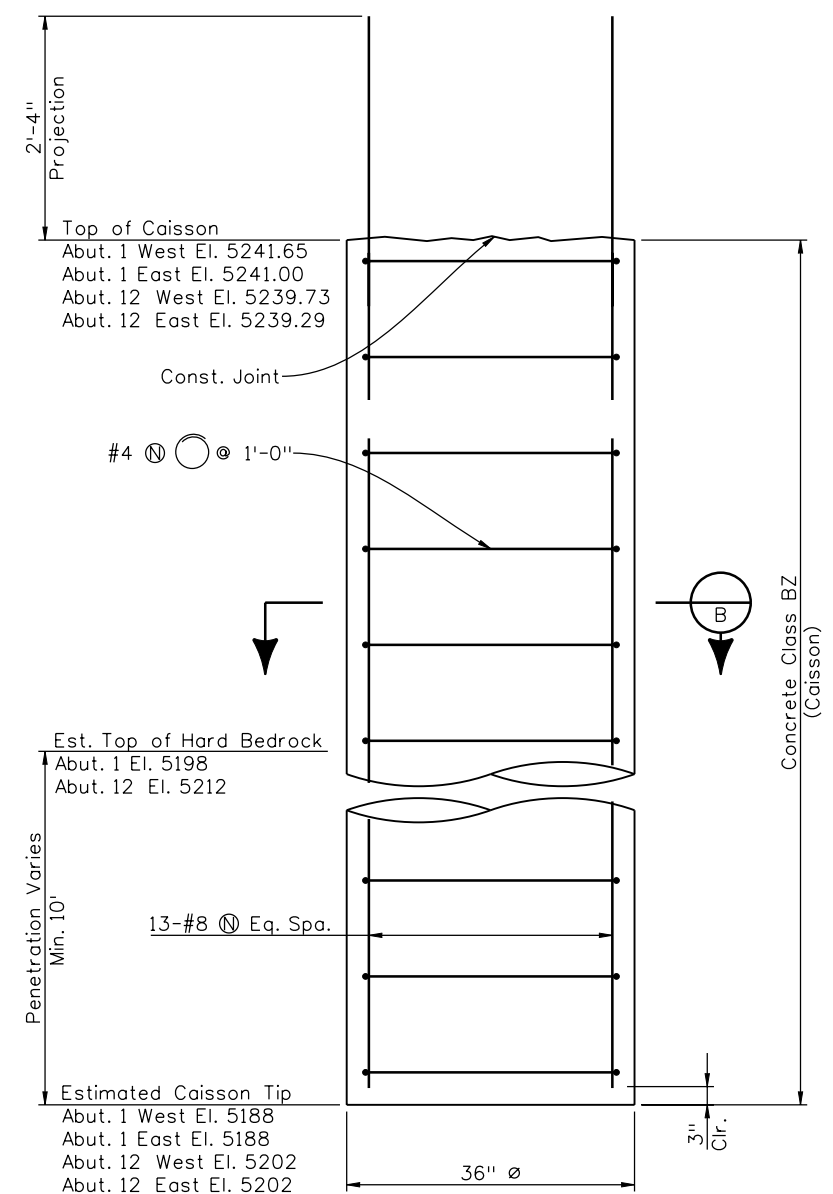
24 INCH CAISSON DETAIL



SECTION A



SECTION B



36 INCH CAISSON DETAIL

RESISTANCE TYPE	NOMINAL RESISTANCE	RESISTANCE FACTOR
SIDE RESISTANCE IN BEDROCK	0-1'	-
	1'-10'	7 ksf 0.7
	BELOW 10'	11 ksf 0.7
BASE RESISTANCE IN BEDROCK	200 ksf	0.7

CAISSON DATA		
	24" Ø CAISSONS	36" Ø CAISSONS
RESISTANCE FACTOR Ø	0.7 END BEARING 0.7 SIDE SHEAR	0.7 END BEARING 0.7 SIDE SHEAR
ULTIMATE ALLOWABLE END BEARING CAPACITY	200.0 ksf x Ø x Ag = 440 kips	200.0 ksf x Ø x Ag = 990 kips
MAXIMUM CAISSON FACTORED AXIAL DESIGN LOAD	32 kips	848 kips

CAISSON NOTES:

1. Caissons shall extend at least to the estimated tip elevation. Caissons shall be further advanced into the hard bedrock if necessary to obtain the specified minimum embedment below the estimated top of hard bedrock as determined in the field by the Engineer.
2. Top of hard bedrock elevation shall be verified at time of construction by the Engineer.
3. The use of temporary casing & dewatering during drilling caissons may be required. The cost of temporary casing & dewatering shall be paid for in accordance with Section 104.09 under Force Account Dewatering.

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_FndDetails01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

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 Region 6 RLB

As Constructed
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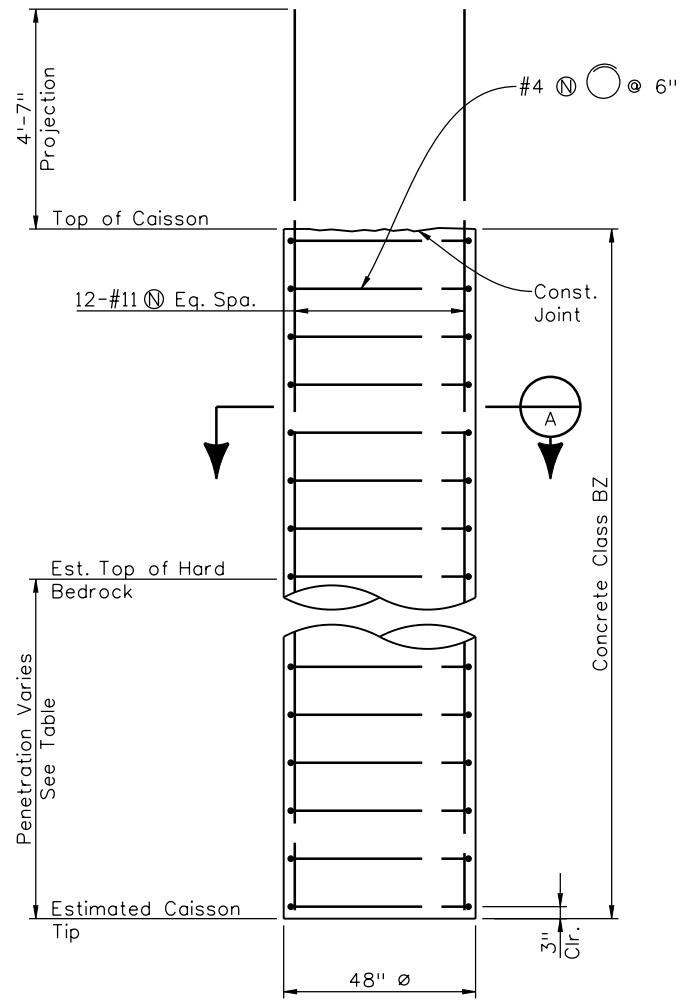
**I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 CAISSON DETAILS (1 OF 2)**

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR26 of 107

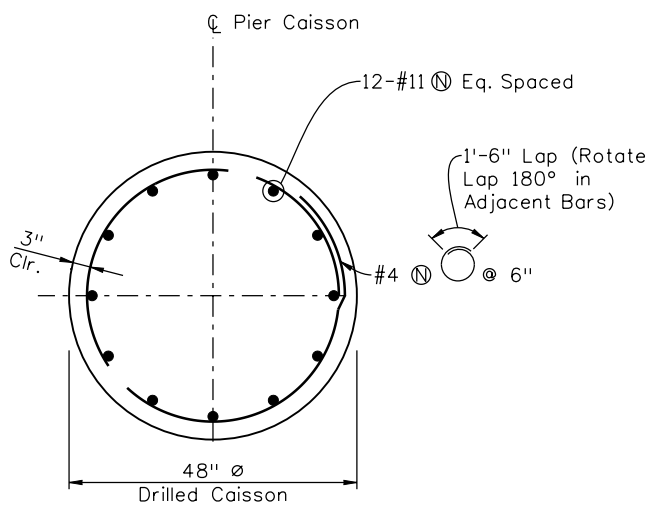
Project No./Code
 BR 0252-407
 17783
 Sheet Number 184 B



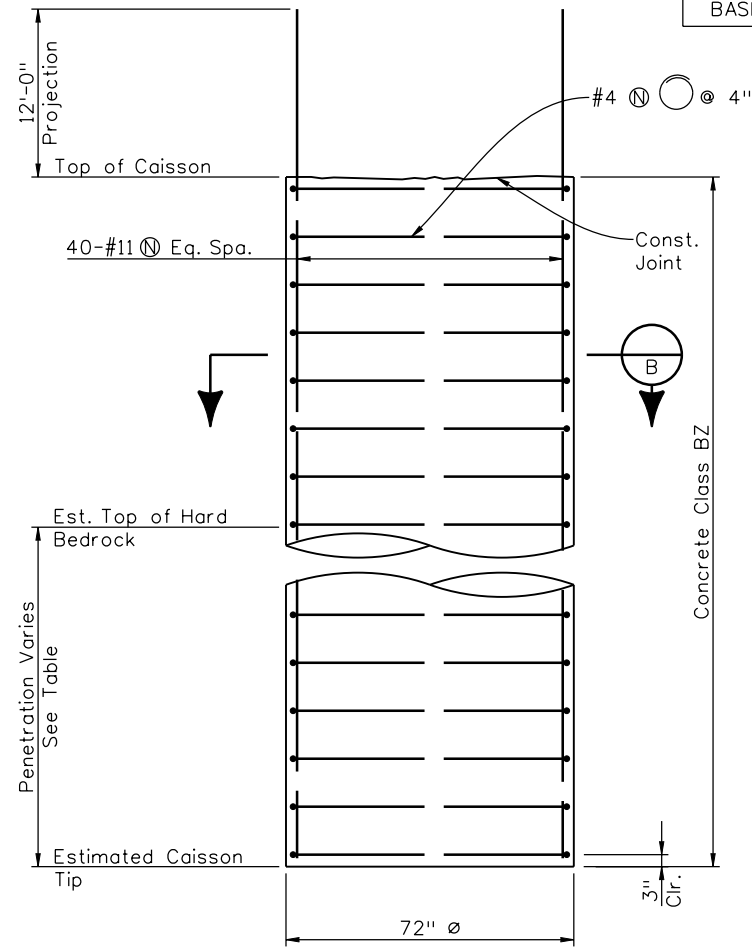
RESISTANCE TYPE	NOMINAL RESISTANCE		RESISTANCE FACTOR
	0-1'	1'-10'	
SIDE RESISTANCE IN BEDROCK	0-1'	-	-
	1'-10'	7 ksf	0.7
	BELOW 10'	11 ksf	0.7
BASE RESISTANCE IN BEDROCK	200 ksf		0.7



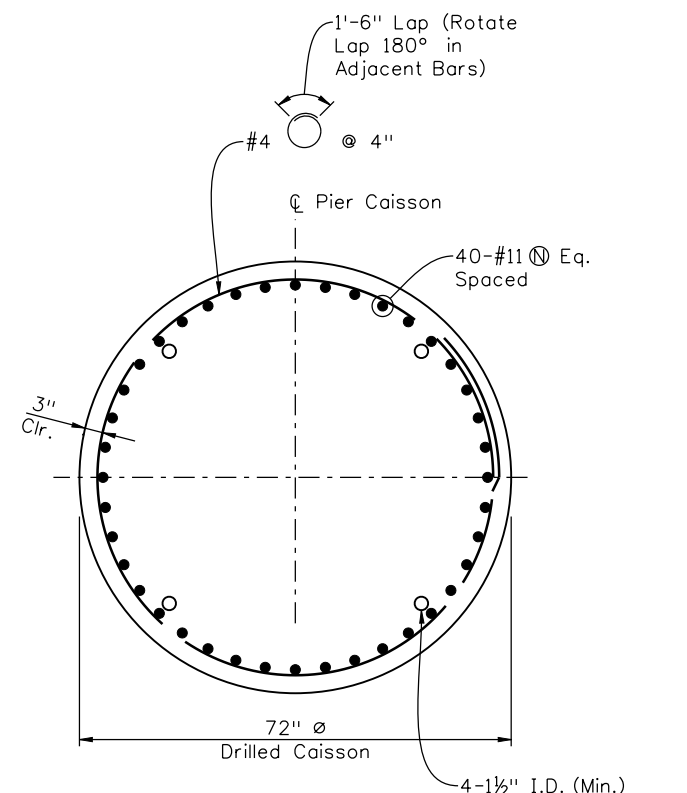
48 INCH CAISSON DETAIL



SECTION A



72 INCH CAISSON DETAIL



SECTION B

ELEVATION TABLE

Pier	Estimated Footing Top	Estimated Footing Bottom/Caisson Top	Top of Bedrock	Socket Length	Estimated Caisson Tip
2	5218	5213	5196	12	5184
3	5229	5224	5196	12	5184
4	5229	5224	5197	12	5185
5	-	5250	5197	18	5179
6	5232	5227	5197	12	5185
7	5227	5222	5199	12	5187
8	5225	5220	5201	12	5189
9	5223	5218	5203	12	5191
10	5226	5221	5207	12	5195
11	5225	5220	5210	12	5198

CAISSON DATA		
	48" Ø CAISSONS	72" Ø CAISSONS
RESISTANCE FACTOR Ø	0.7 END BEARING 0.7 SIDE SHEAR	0.7 END BEARING 0.7 SIDE SHEAR
ULTIMATE ALLOWABLE END BEARING CAPACITY	200.0 ksf x Ø x Ag = 1,758 kips	200.0 ksf x Ø x Ag = 3,956 kips
MAXIMUM CAISSON FACTORED AXIAL DESIGN LOAD	2,422 kips	4,030 kips

CAISSON NOTES:

1. Caissons shall extend at least to the estimated tip elevation. Caissons shall be further advanced into the hard bedrock if necessary to obtain the specified minimum embedment below the estimated top of hard bedrock as determined in the field by the Engineer.
2. Top of hard bedrock elevation shall be verified at time of construction by the Engineer.
3. The use of temporary casing & dewatering during drilling caissons may be required. The cost of temporary casing & dewatering shall be paid for in accordance with Section 104.09 under Force Account Dewatering.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010
 File Name: 16311BRDGC_PH2_F-16-XR_FndDetails02.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

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 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

**I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 CAISSON DETAILS (2 OF 2)**

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR27 of 107

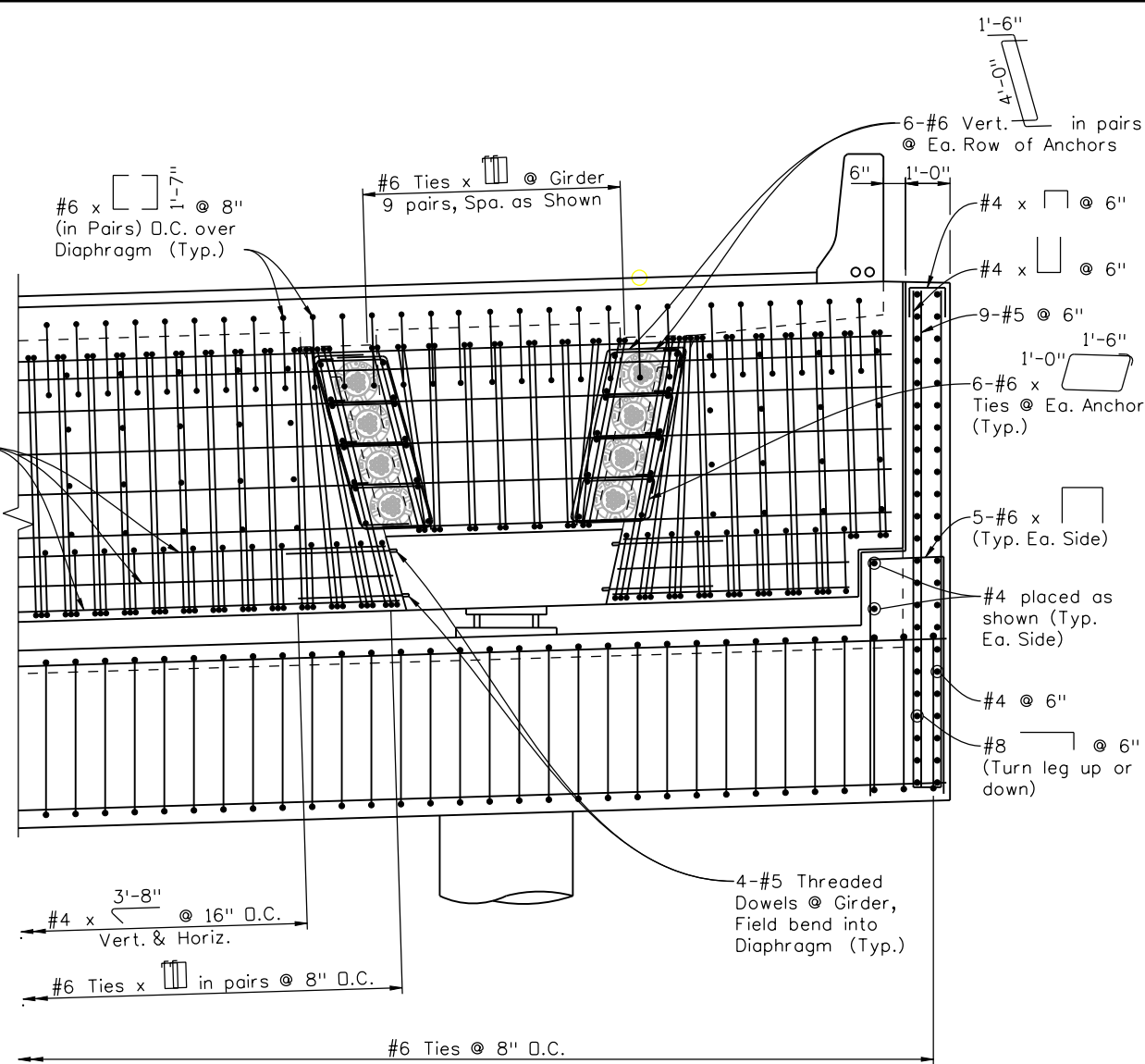
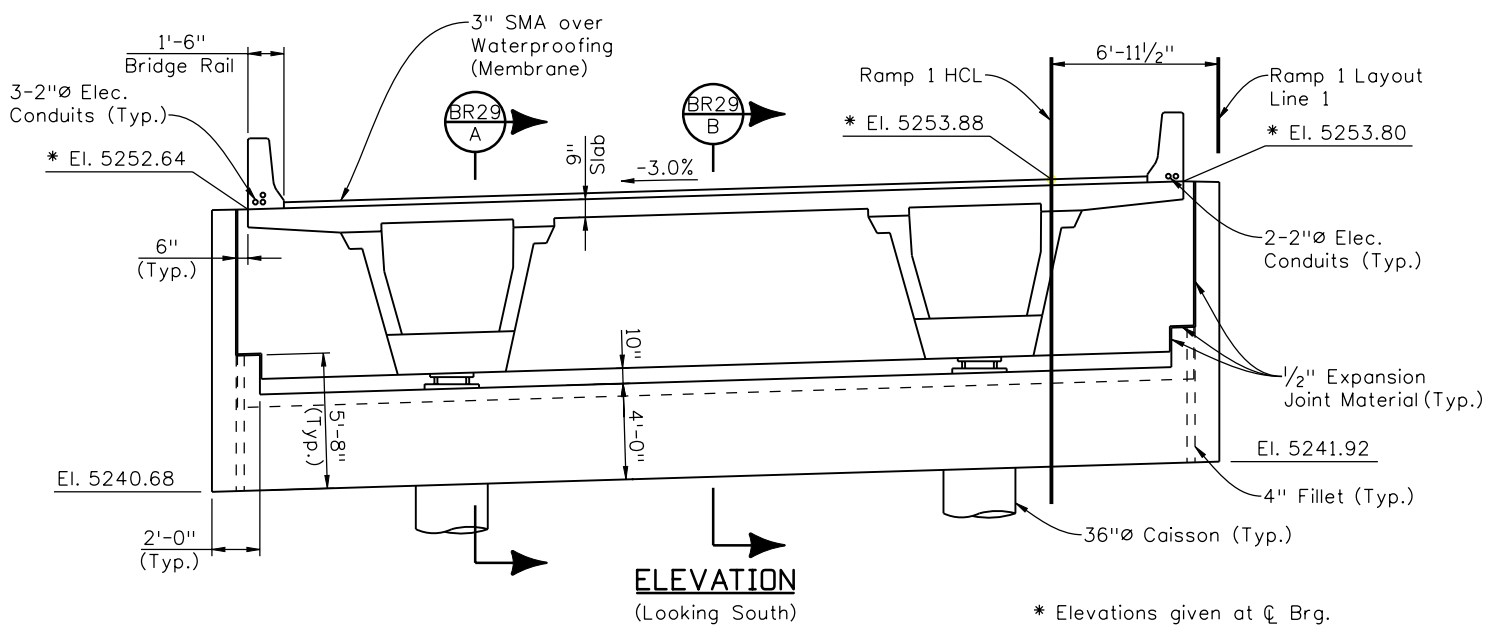
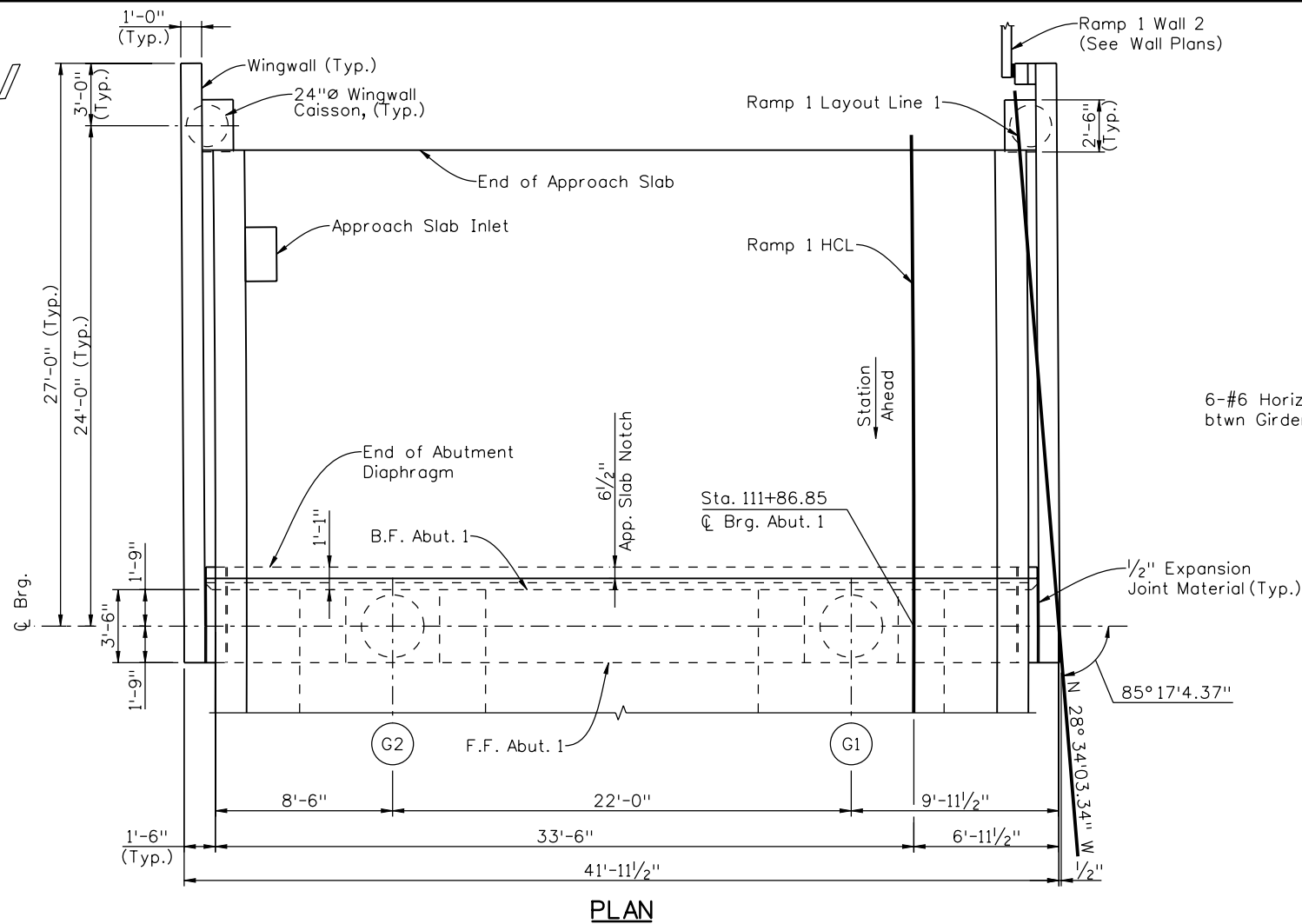
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BR 0252-407
17783
Sheet Number 185 B



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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10



Print Date: 12/22/2010	File Name: 16311BRDG_PH2_F-16-XR_Abut1.dgn
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
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Colorado Department of Transportation

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

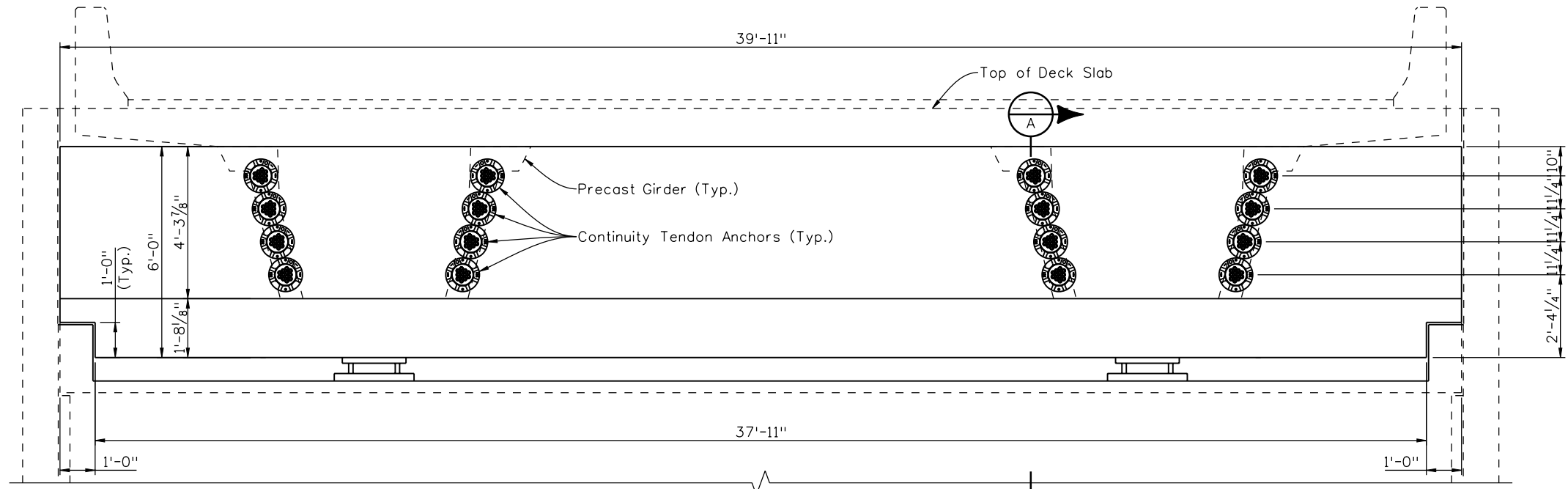
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I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER ABUTMENT 1 PLAN & ELEVATION			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subst Sheets:		BR28 of 107	

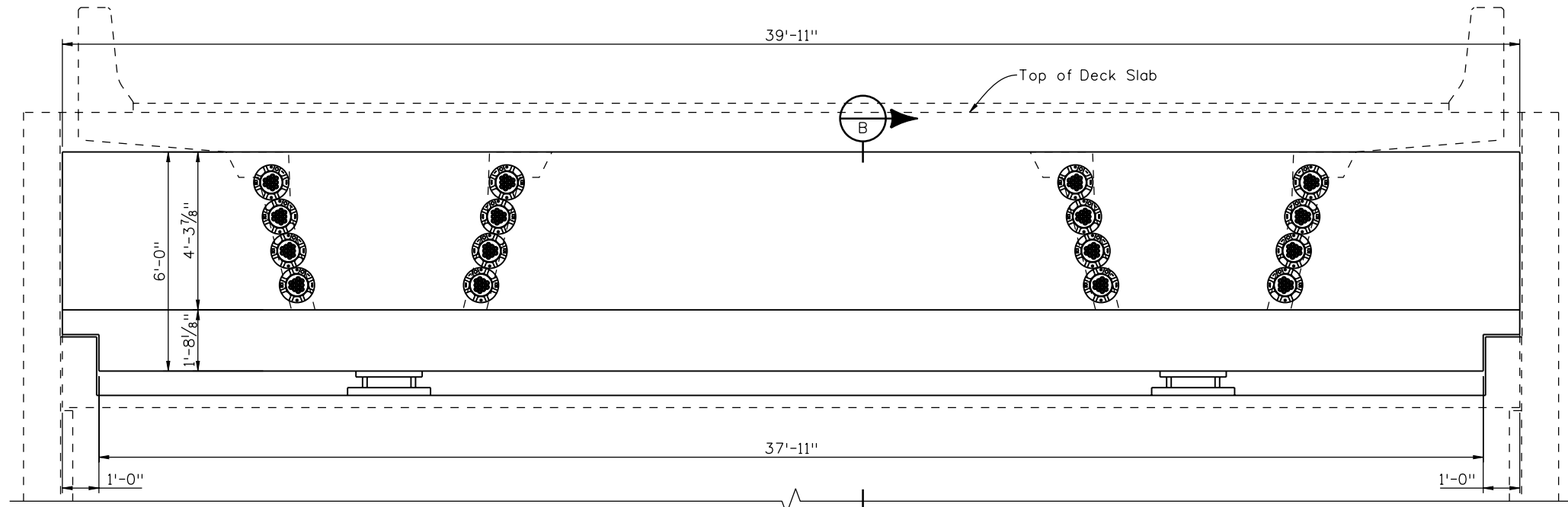
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	17783
Sheet Number	186 B

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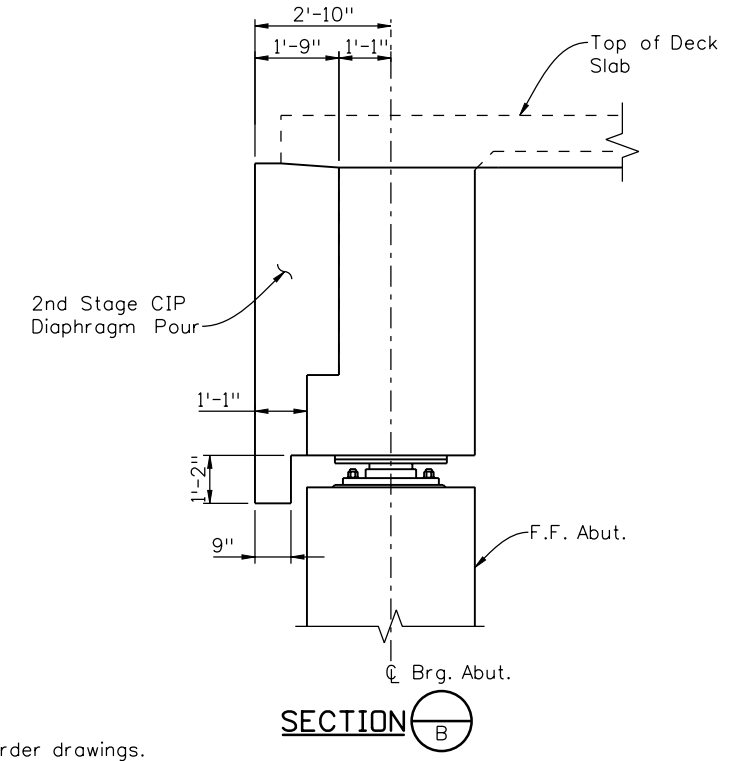
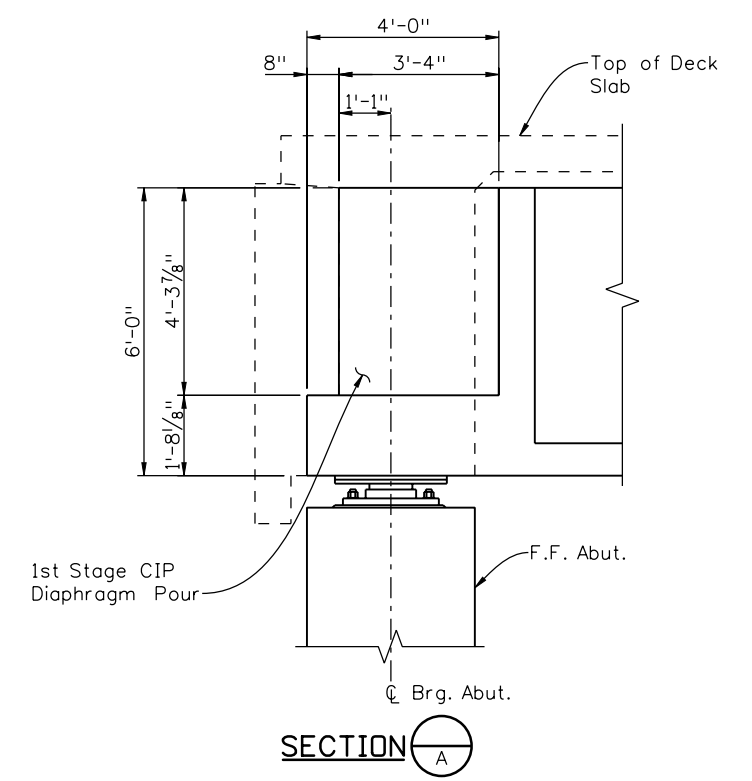
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Checked By PRS	11/10	TF	11/10	TF	11/10
		Quantities By		Quantities By	
		Checked By		Checked By	



**ELEVATION @ ABUTMENT
1ST STAGE**
(Looking South @ Abut. 1)



**ELEVATION @ ABUTMENT
2ND STAGE**
(Looking South @ Abut. 1)



NOTES:

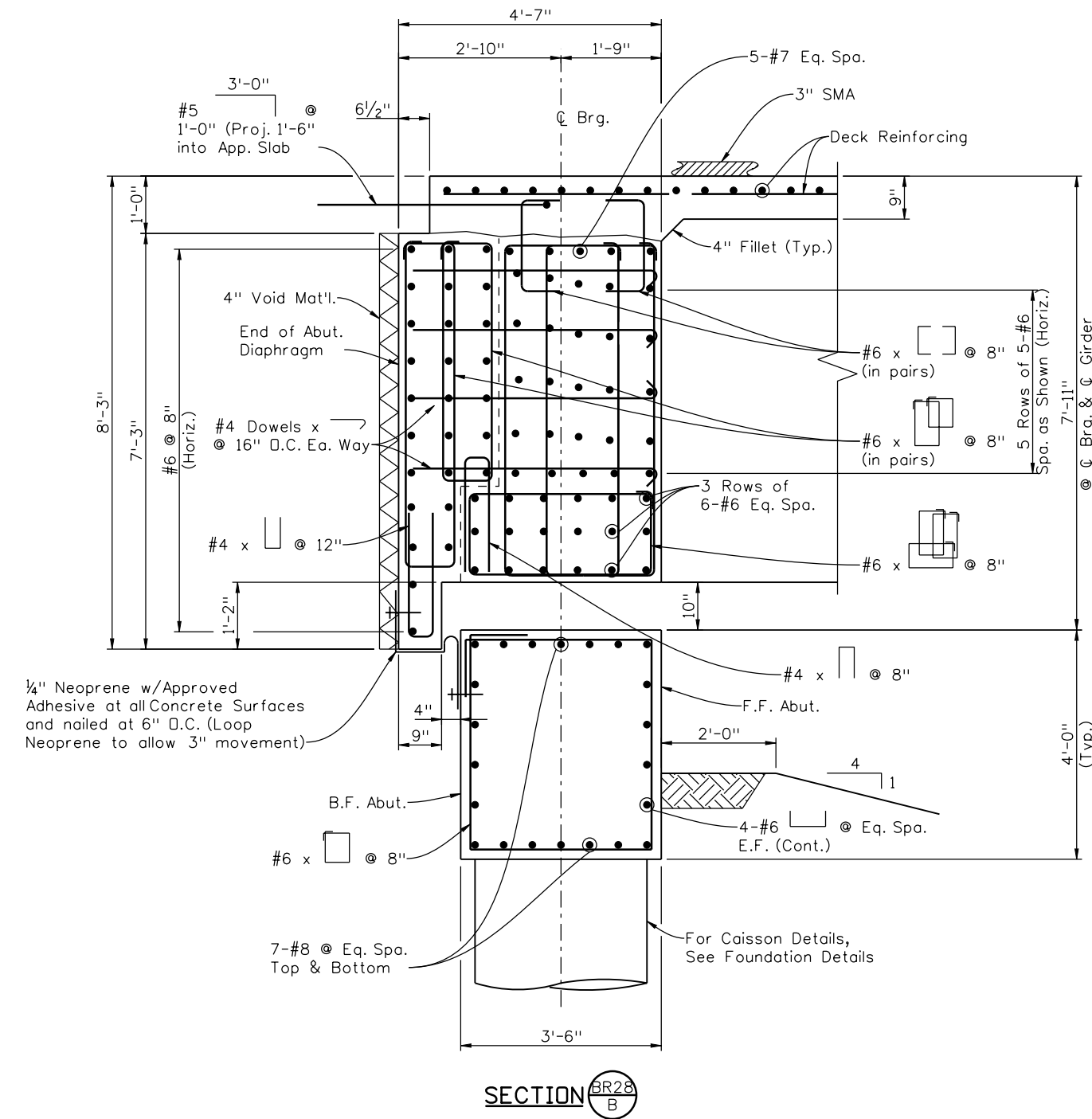
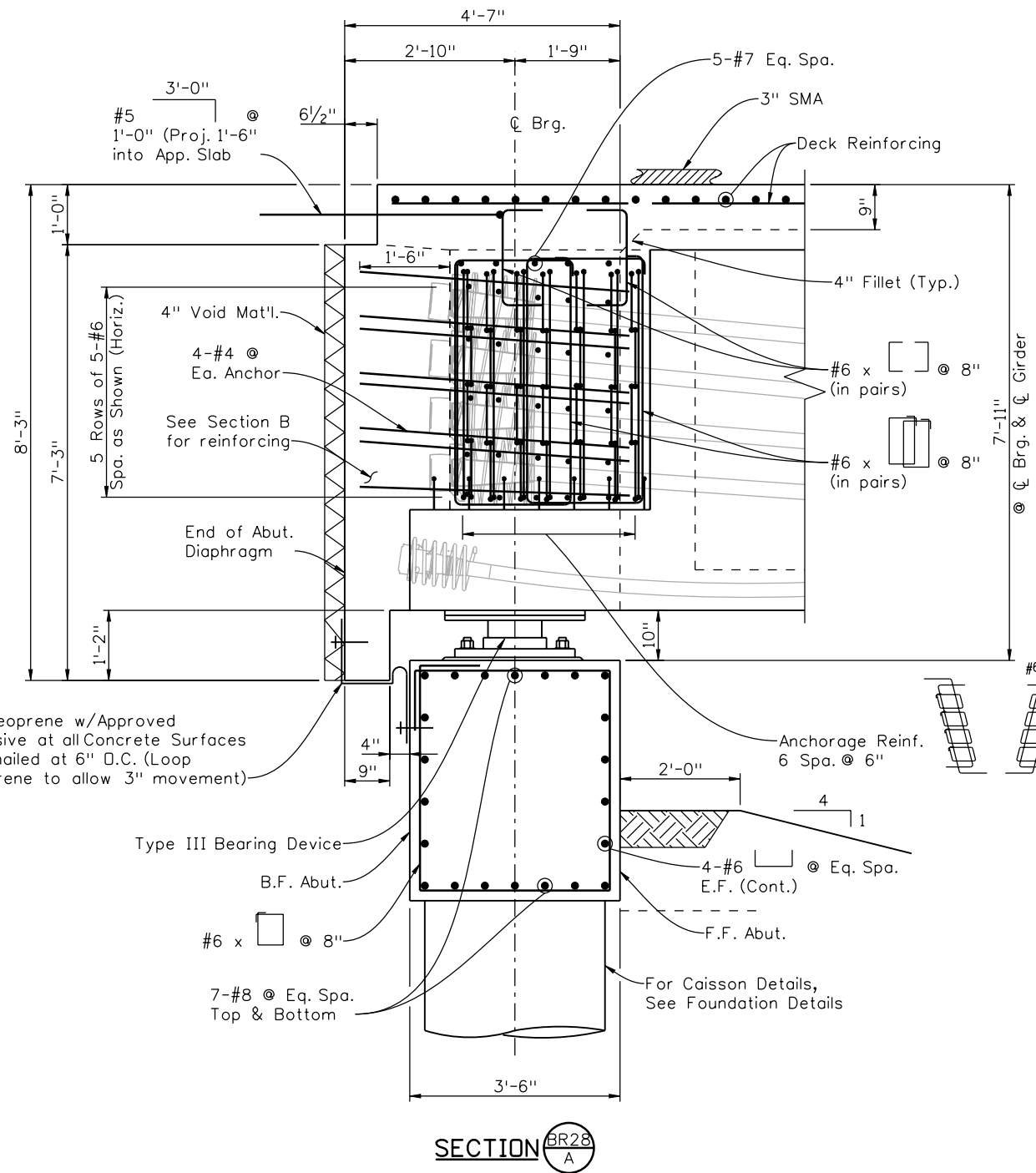
1. PT Anchor locations are shown on the girder drawings.
2. Diaphragm concrete shall be Class D, 4500 psi.

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation 	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER ABUTMENT DETAILS			Project No./Code BR 0252-407 17783 Sheet Number 186a B
File Name: 16311BRDG_PH2_F-16-XR_Abut Dim.dgn		Date: 1/3/11	Comments: New Sheet	Init.: GAR			2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Designer: G. Reese Detailer: K. Soellner	Structure Numbers: F-16-XR	
Horiz. Scale: 1:1 Unit Information: Unit Leader Initials							Region 6 RLB	Sheet Subset: Bridge Subset Sheets: BR28A of 107		

Summit
ENGINEERING GROUP, INCORPORATED
CONSULTING STRUCTURAL ENGINEERS
10822 Teller Drive Suite 330
Littleton, CO 80127

soellner 8:01:43 AM K:\08276\16311\Phase 2\Bridge Drawings\16311BRDGC_PH2_F-16-XR_Abut1Details.dgn
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DESIGNED BY	08/10	K/S	09/10	QUANTITIES BY	10/10
CHECKED BY	11/10	TF	11/10	CHECKED BY	11/10



NOTE:
1. All Abutment and Wingwall Concrete shall be Class D (Bridge).

Print Date: 12/22/2010	
File Name: 16311BRDGC_PH2_F-16-XR_Abut1Details.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

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Region 6 RLB

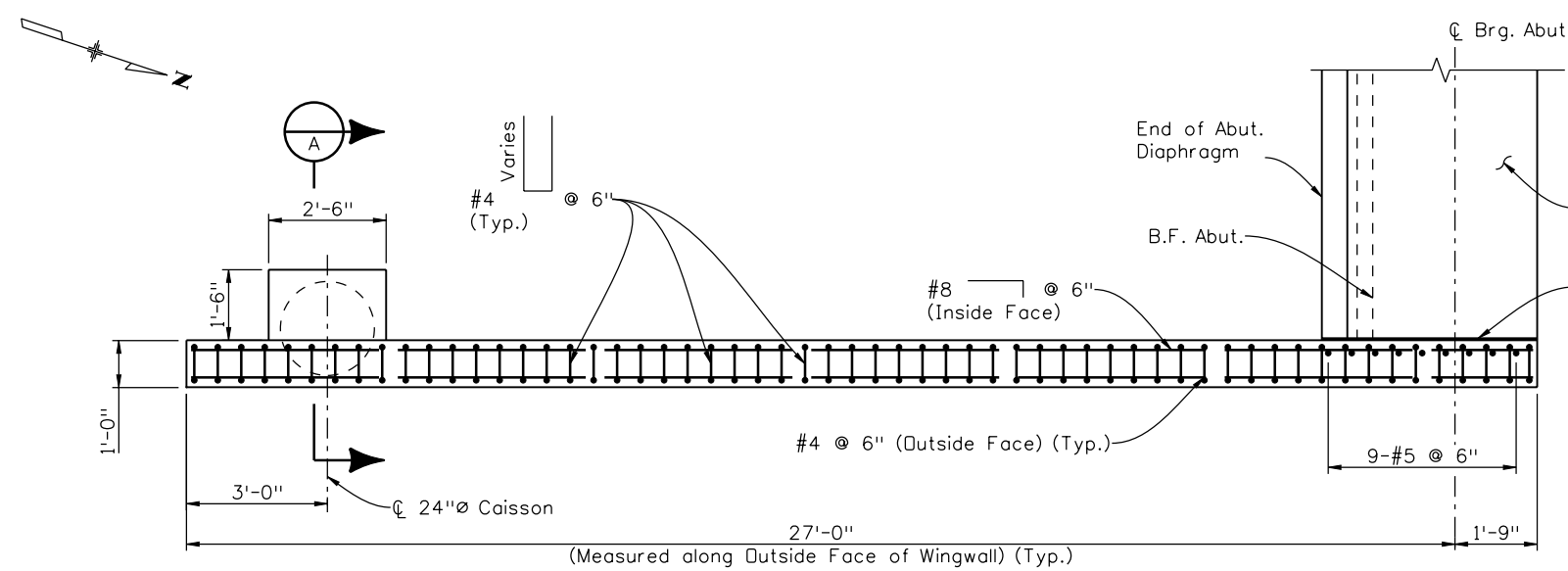
As Constructed
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Revised:
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR29 of 107
Sheet Subset:	Bridge		

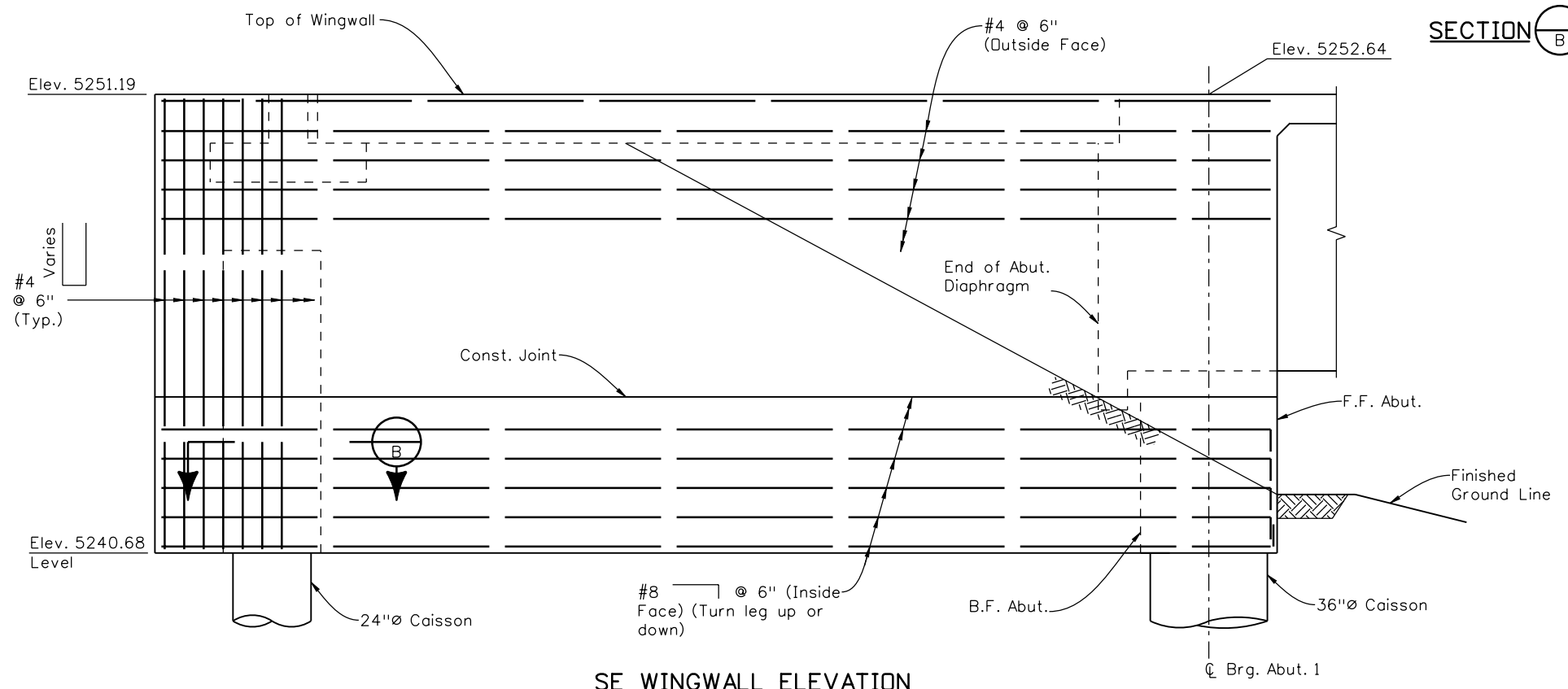
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	17783
Sheet Number	187 B

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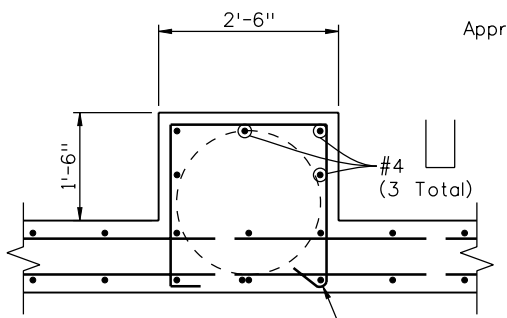
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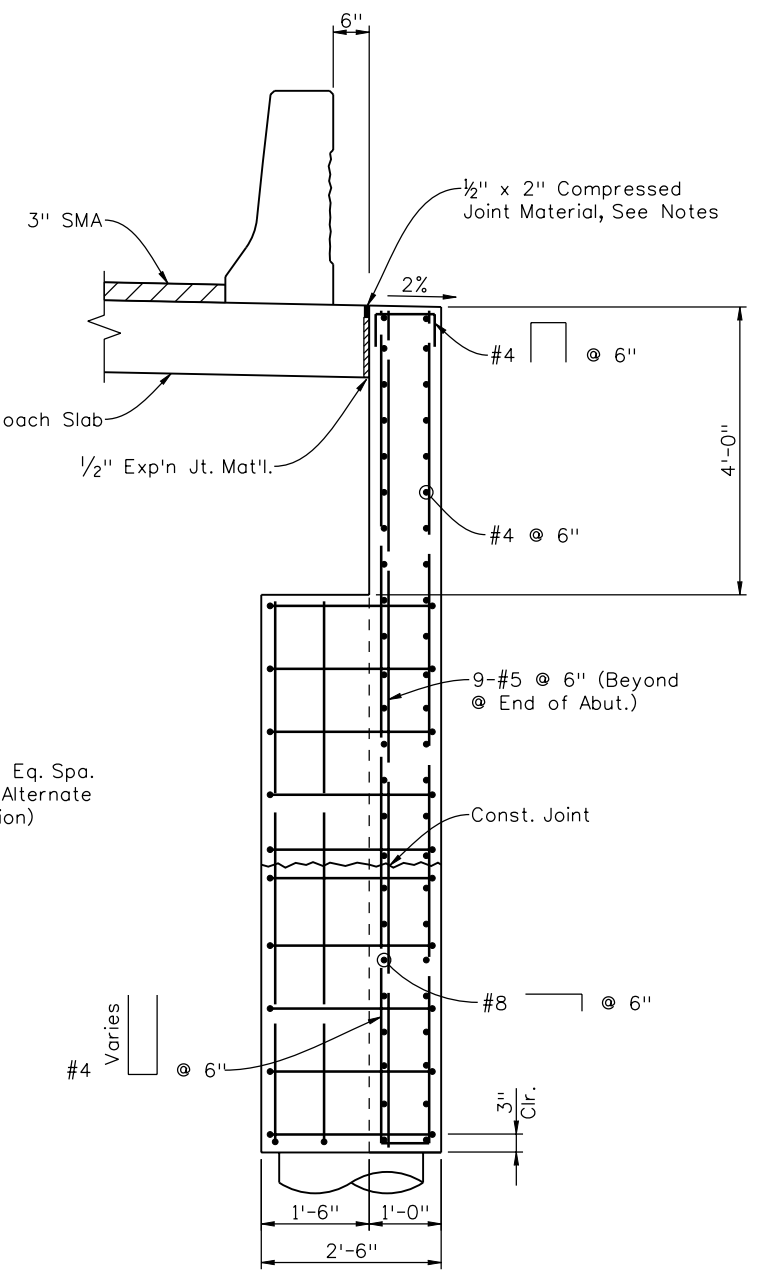
SE WINGWALL PLAN



SE WINGWALL ELEVATION



SECTION B



SECTION A

NOTE:

- Compressed Joint Material shall be pre-compressed, chemically resistant, open cell polyurethane foam sealant, impregnated with a water-repellent material, with adhesive backing on both sides. The Joint Material shall be epoxied in place, and all splices sealed, as recommended by the supplier of the Joint Material. The cost shall be included in the cost of Item 601, Class D Concrete.

Acceptable Compressed Joint Material Alternatives:
 Will-Seal
 Seal-Mate #517
 Poly-Tite "N"

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_Abut 1 Wing01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)
			(R-4)

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 Region 6 RLB

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 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 WINGWALL DETAILS (1 OF 2)**

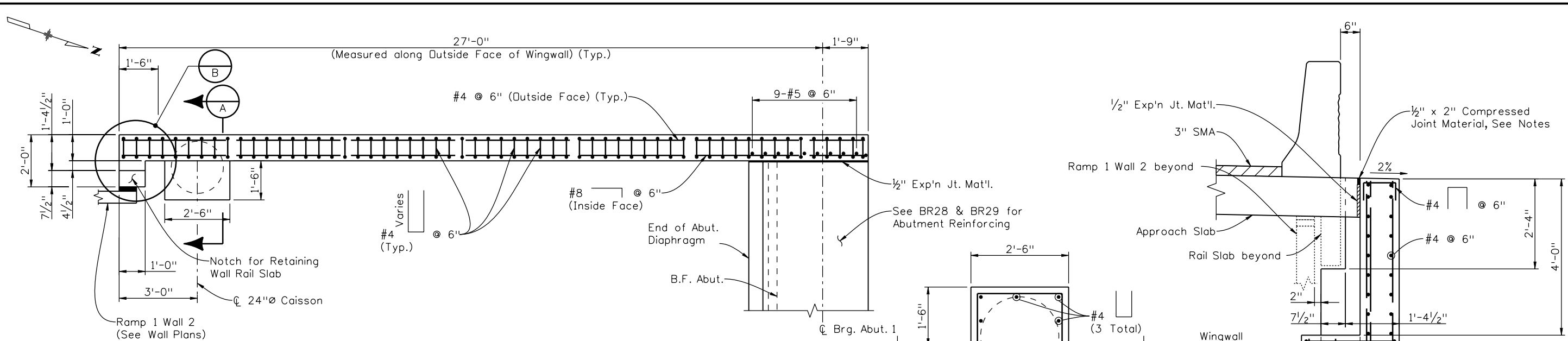
Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
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Project No./Code
 BR 0252-407
 17783
 Sheet Number 188 B

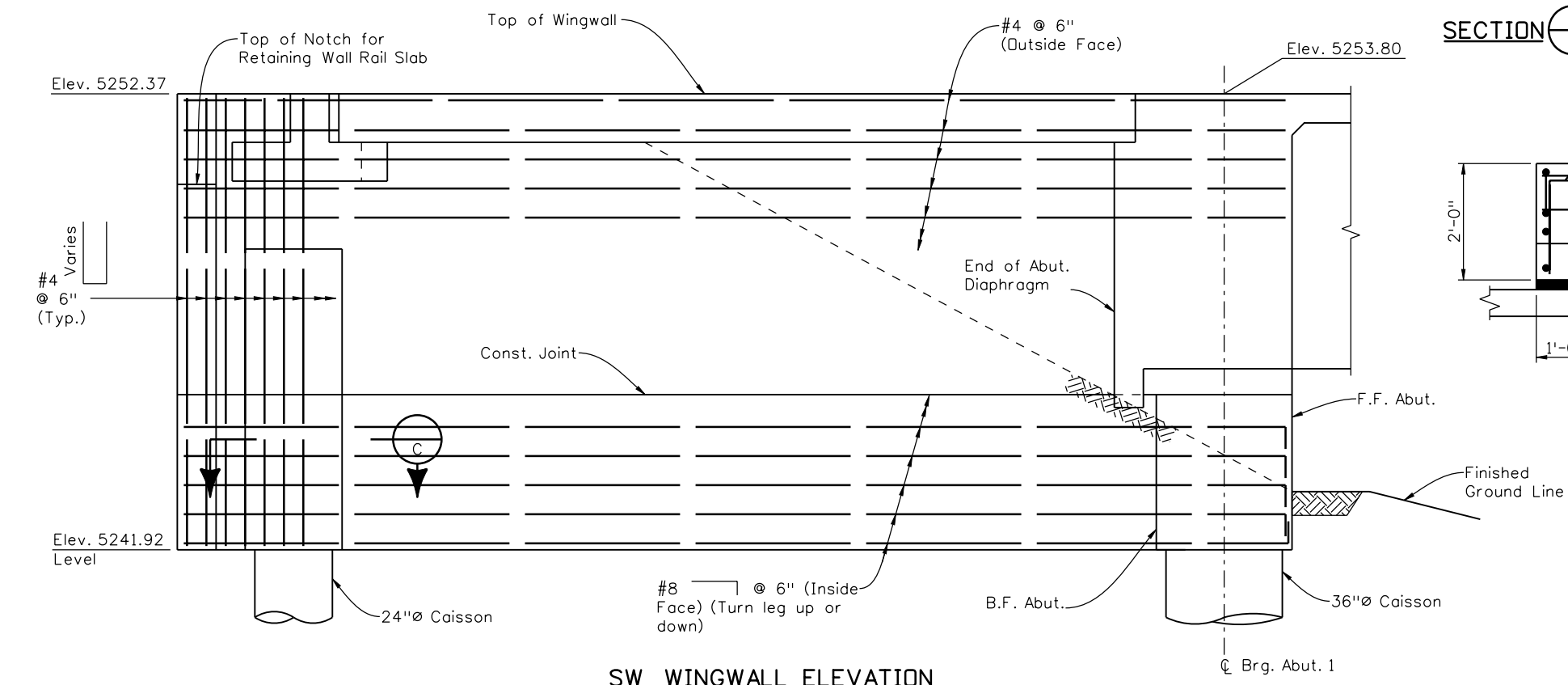


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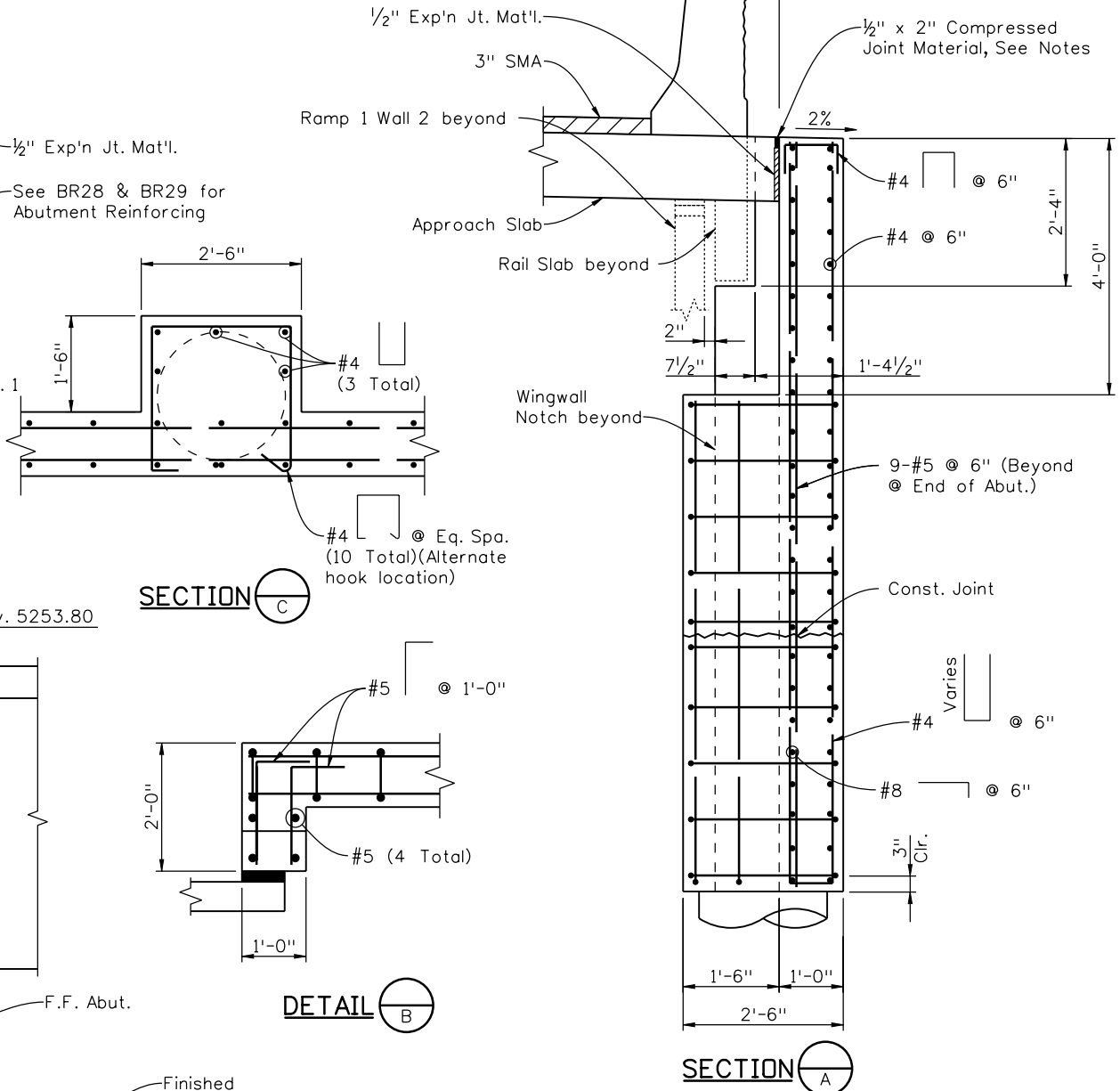
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PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By
Gar	KJS	TF	TF	TF	TF



SW WINGWALL PLAN



SW WINGWALL ELEVATION
(Looking West)



SECTION C-C

DETAIL B-B

SECTION A-A

NOTE:

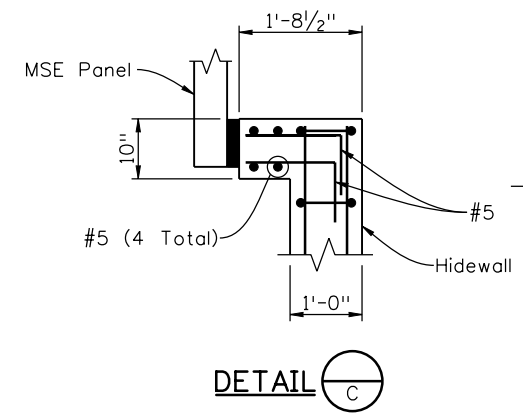
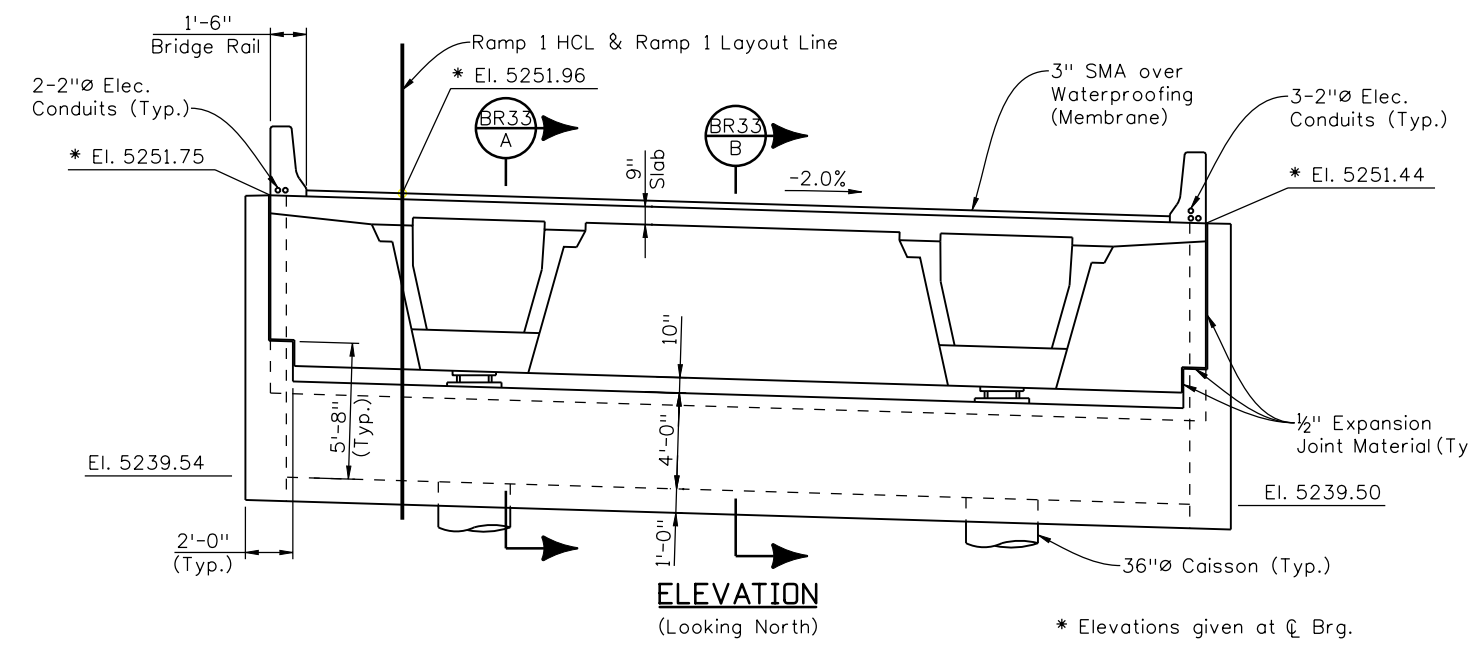
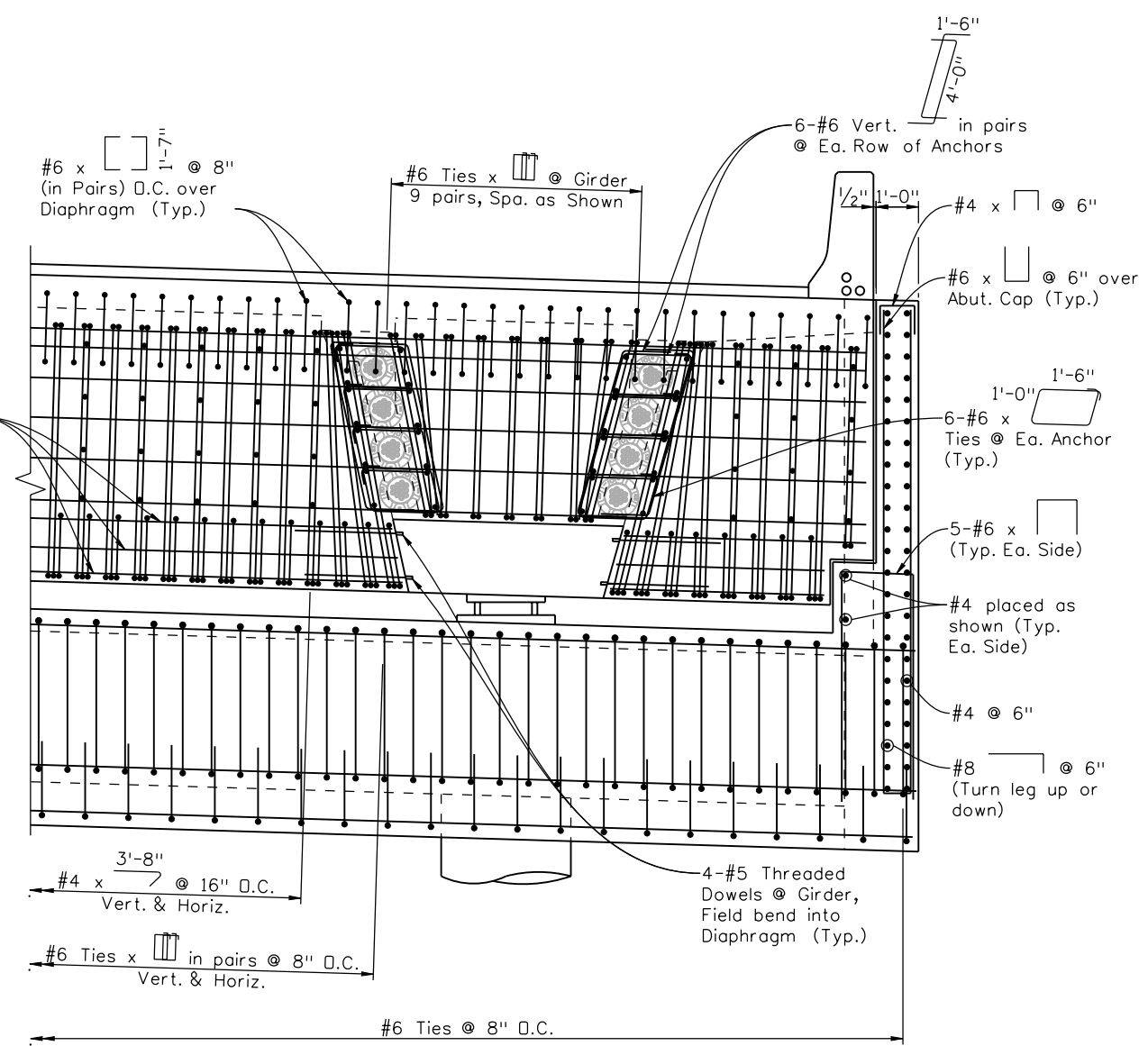
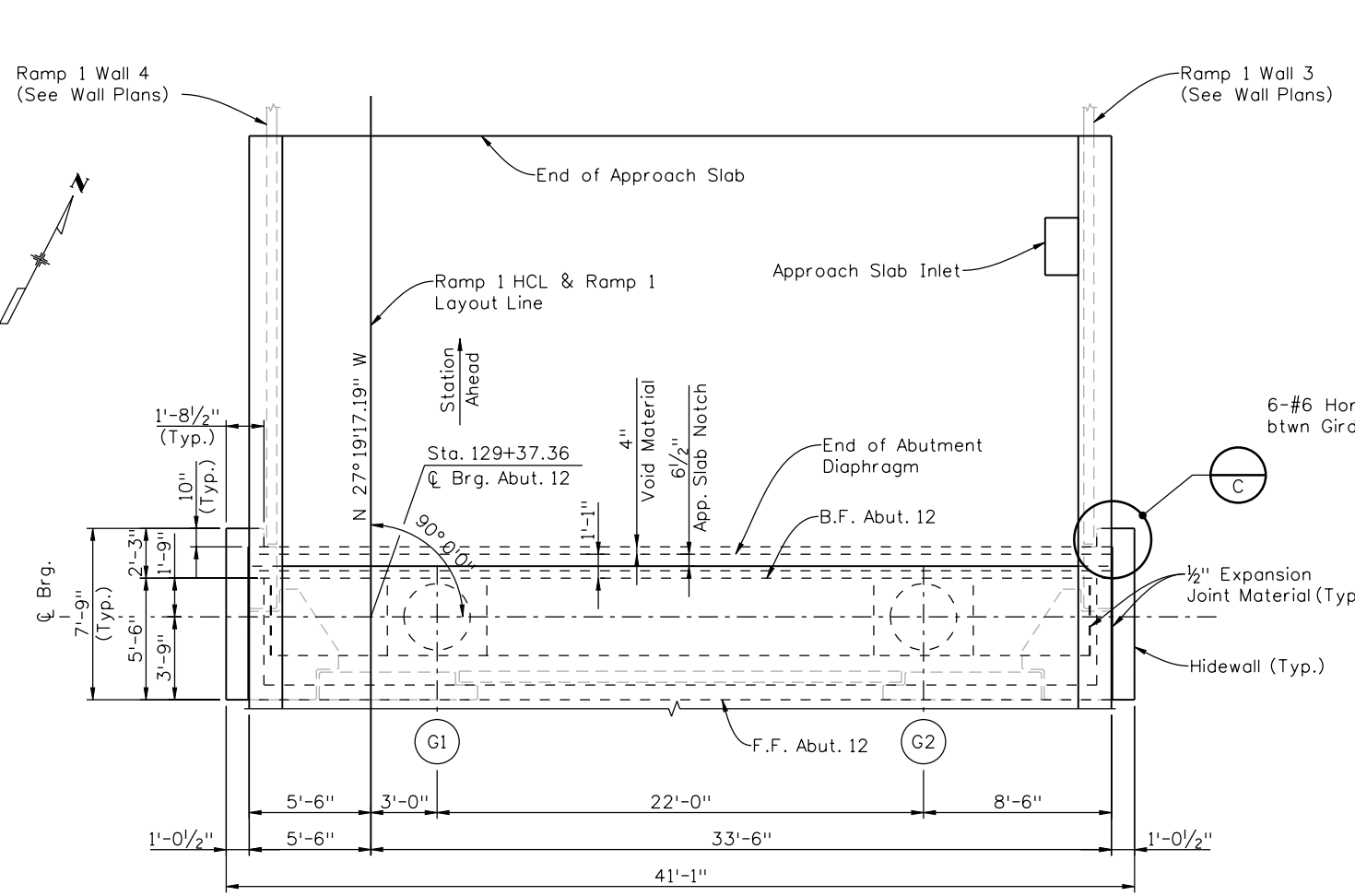
- Compressed Joint Material shall be pre-compressed, chemically resistant, open cell polyurethane foam sealant, impregnated with a water-repellent material, with adhesive backing on both sides. The Joint Material shall be epoxied in place, and all splices sealed, as recommended by the supplier of the Joint Material. The cost shall be included in the cost of Item 601, Class D Concrete.

Acceptable Compressed Joint Material Alternatives:
 Will-Seal
 Seal-Mate #517
 Poly-Tite "N"

Print Date: 12/22/2010	Sheet Revisions		Colorado Department of Transportation		As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER		Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_Abut 1 Wing02.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	WINGWALL DETAILS (2 OF 2)		BR 0252-407
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR		Revised:	Designer: G. Reese	Structure: F-16-XR	17783
Unit Information	1/3/11	Misc. Revisions	GAR		Void:	Detailed: K. Soellner	Subset Sheets: BR31 of 107	Sheet Number 189 B
Unit Leader Initials				10822 Teller Drive Suite 330 Littleton, CO 80127	Sheet Subset: Bridge			

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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CHECKED BY	11/10	TF	11/10	TF	11/10

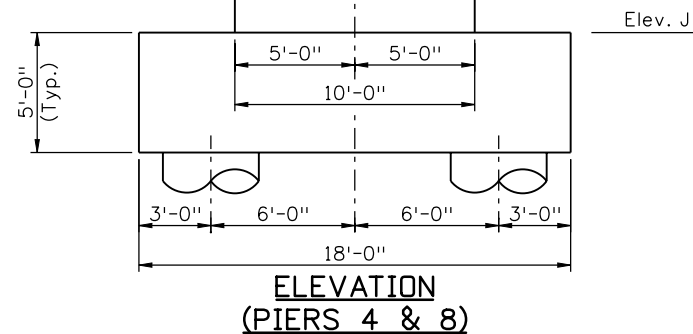
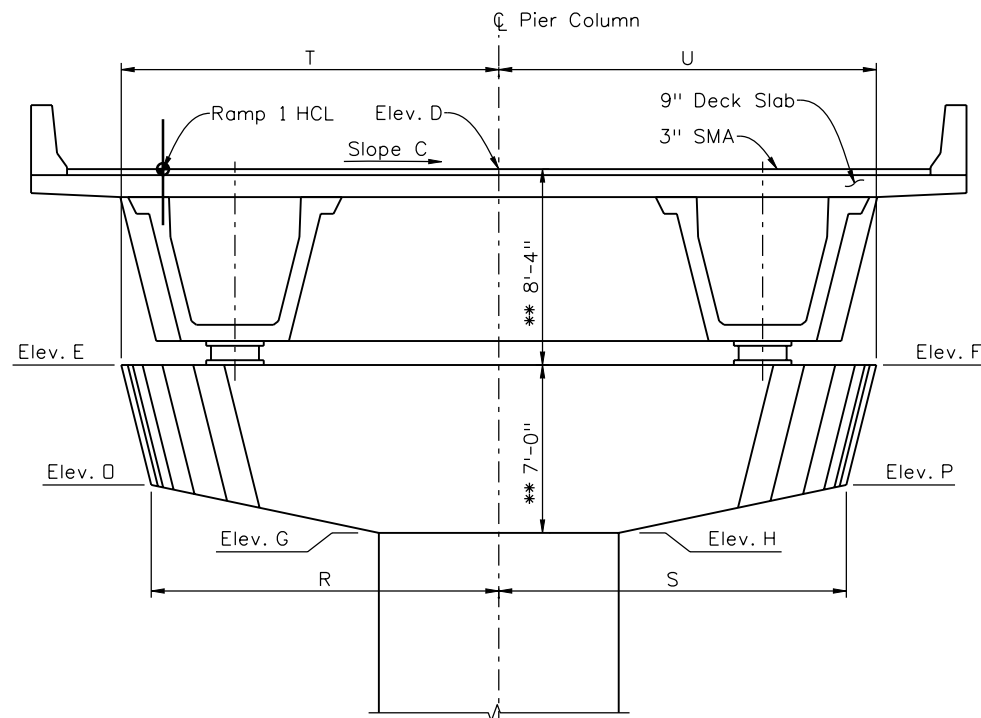
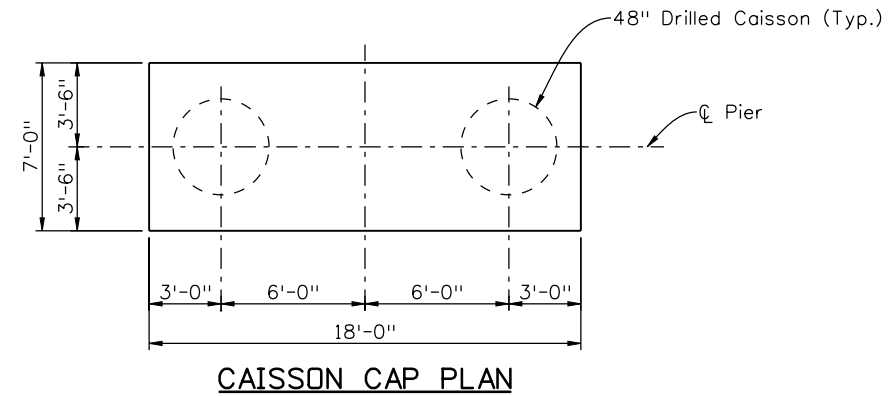
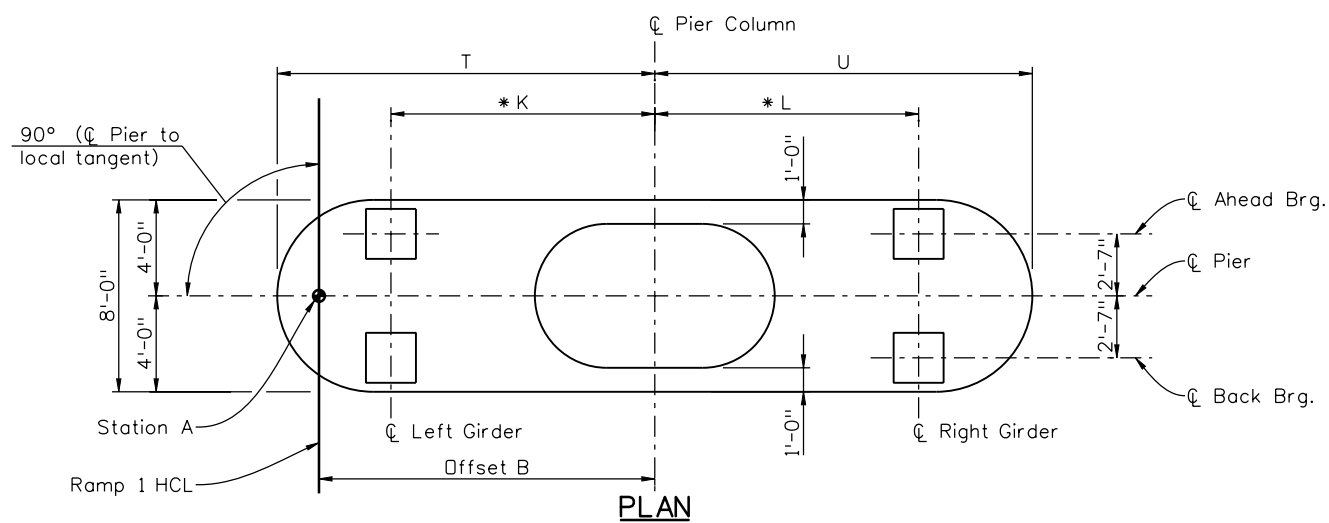


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File Name: 16311BRDG_PH2_F-16-XR_Abut12.dgn	Date:	Comments:	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	ABUTMENT 12 PLAN & ELEVATION		BR 0252-407
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR		Revised:	Designer: G. Reese	Structure Numbers	17783
Unit Information	1/3/11	Misc. Revisions	GAR		Void:	Detailer: K. Soellner		
Unit Leader Initials				Region 6		Sheet Subset: Bridge	Subset Sheets: BR32 of 107	Sheet Number 190 B



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11/22/2010 CDOT-PDFDraftQuality_XM.plt

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Gar	08/10	KJS	09/10	KJS	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10



PIER NUMBER	RAMP 1 HCL STATION	OFFSET B (FT)	CROSS SLOPE (%)	ELEV. D (FT.)	ELEV. E (FT.)	ELEV. F (FT.)	ELEV. G (FT.)	ELEV. H (FT.)	ELEV. J (FT.)	DIM. K (FT.)	DIM. L (FT.)	ELEV. O (FT.)	ELEV. P (FT.)	DIM. R (FT.)	DIM. S (FT.)	DIM. T (FT.)	DIM. U (FT.)	T.O. ASPHALT ELEV @ HCL
EP4	116+71.11	14	-2.42%	5276.72	5268.78	5268.00	5261.50	5261.26	5229	11.18	10.82	5263.75	5263.03	15.07	14.42	16.20	15.79	5277.06
EP8	123+22.78	14	3.40%	5273.70	5264.82	5265.91	5258.18	5258.52	5225	10.75	11.23	5259.87	5260.87	14.30	15.19	15.72	16.27	5273.22

NOTES:

- All dimensions are measured horizontally unless noted otherwise.
- Dimensions K & L are measured horizontally @ bottom of girder.
- All Girders are assumed to be 22'-0" ϕ to ϕ along the slope.
- Elevations are @ ϕ Pier.
- Vertical dimensions are perpendicular to deck.

Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_PierExp01.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials



Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

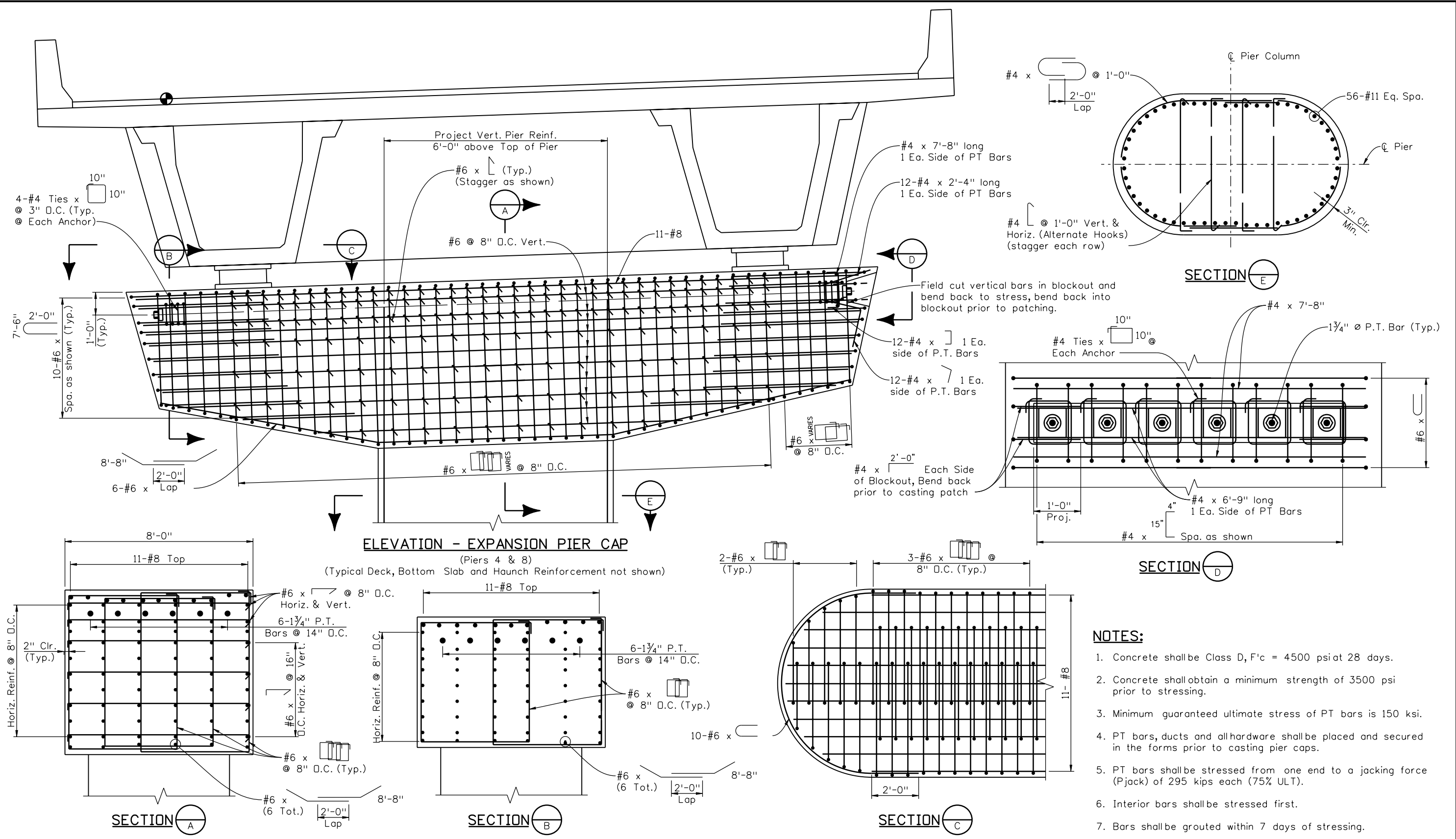
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Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER EXPANSION PIER DETAILS (1 OF 6)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR34 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 192 A

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12/22/2010 CDOT-PDFDraftQuality_XM.plt

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10



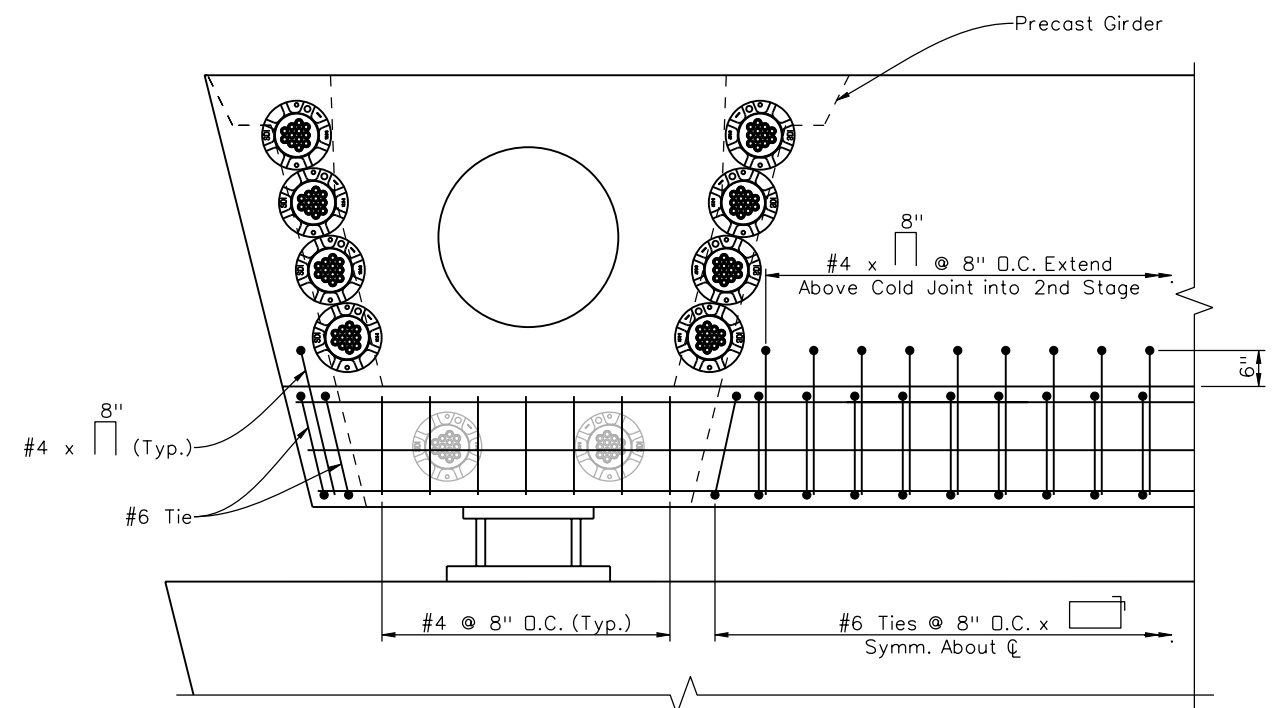
- NOTES:**
- Concrete shall be Class D, F'c = 4500 psi at 28 days.
 - Concrete shall obtain a minimum strength of 3500 psi prior to stressing.
 - Minimum guaranteed ultimate stress of PT bars is 150 ksi.
 - PT bars, ducts and all hardware shall be placed and secured in the forms prior to casting pier caps.
 - PT bars shall be stressed from one end to a jacking force (Pjack) of 295 kips each (75% ULT).
 - Interior bars shall be stressed first.
 - Bars shall be grouted within 7 days of stressing.

Print Date: 12/22/2010	Sheet Revisions		Colorado Department of Transportation		As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER		Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_PierExp02.dgn	Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	No Revisions:	EXPANSION PIER DETAILS (2 OF 6)		BR 0252-407
Horiz. Scale: 1:1 Vert. Scale: As Noted	12/3/10	Misc. Revisions	GAR		Revised:	Designer: G. Reese	Structure Numbers	17783
Unit Information Unit Leader Initials	1/3/11	Misc. Revisions	GAR		Void:	Detailer: K. Soellner	Subset Sheets: BR35 of 107	Sheet Number 193 B

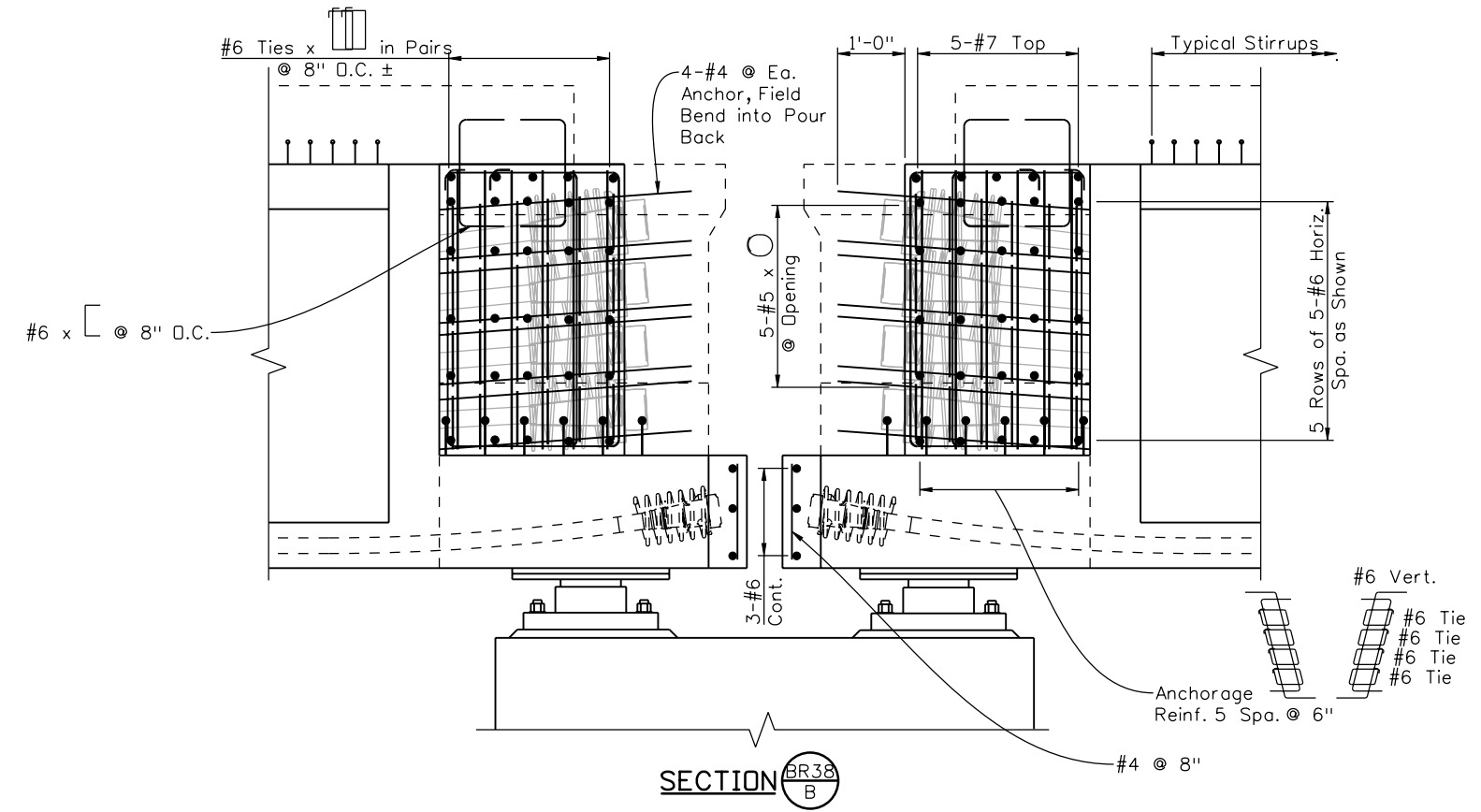


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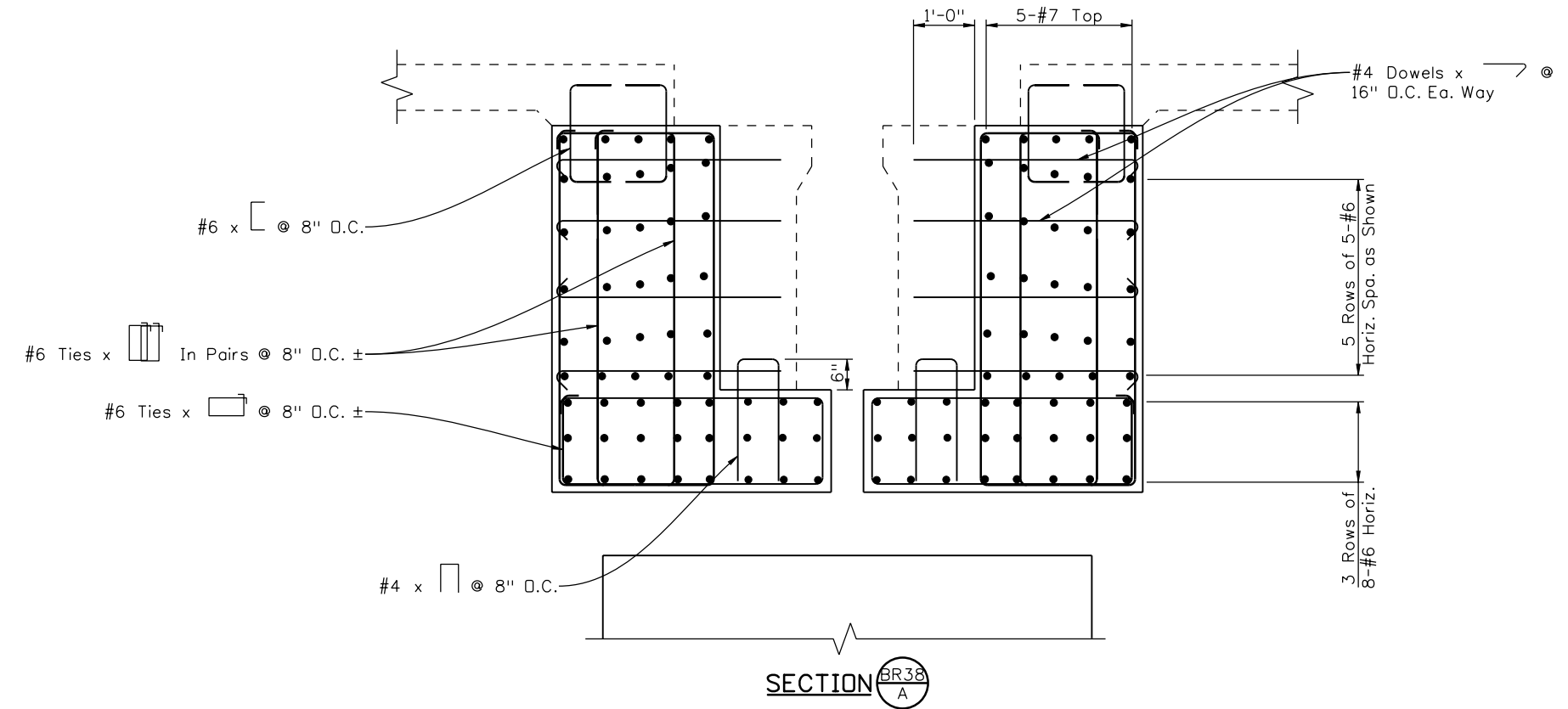
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10



ELEVATION @ BOTTOM OF DIAPHRAGM
(Reinforcing in Diaphragm Section of 1st Stage not shown for clarity)



SECTION BR38 B



SECTION BR38 A

NOTES:

1. PT Anchor locations are shown on the girder drawings.
2. Diaphragm concrete shall be Class D, 4500 psi.
3. All reinforcing shall be Grade 60.

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_PierExp04.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

Colorado Department of Transportation

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

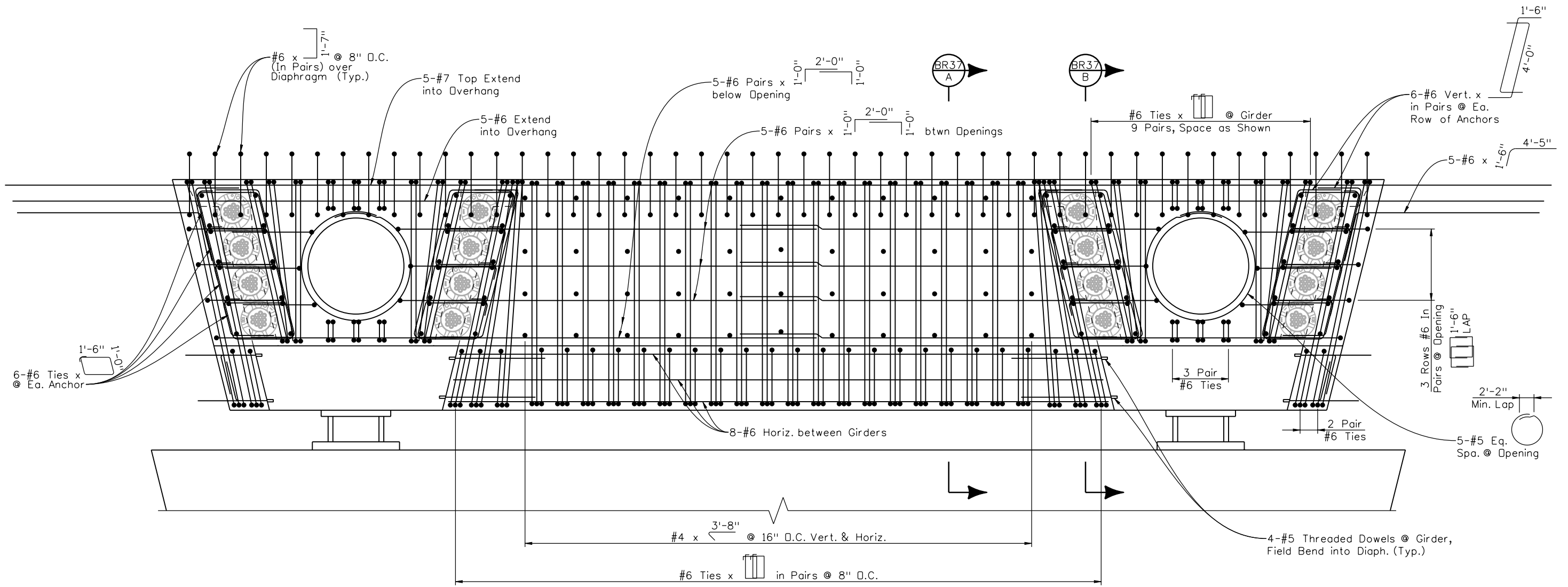
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER EXPANSION PIER DETAILS (4 OF 6)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subset Sheets:		BR37 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 195 B

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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	PRS	11/10	TF	11/10



**ELEVATION @ EXPANSION PIERS 4 & 8
1ST STAGE DIAPHRAGM POUR**

- NOTES:**
1. PT Anchor locations are shown on the girder drawings.
 2. Diaphragm concrete shall be Class D, 4500 psi.
 3. All reinforcing shall be Grade 60.

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PierExp05.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)
			(R-4)

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Region 6 **RLB**

As Constructed

No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
EXPANSION PIER DETAILS (5 OF 6)**

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR38 of 107

Project No./Code

BR 0252-407

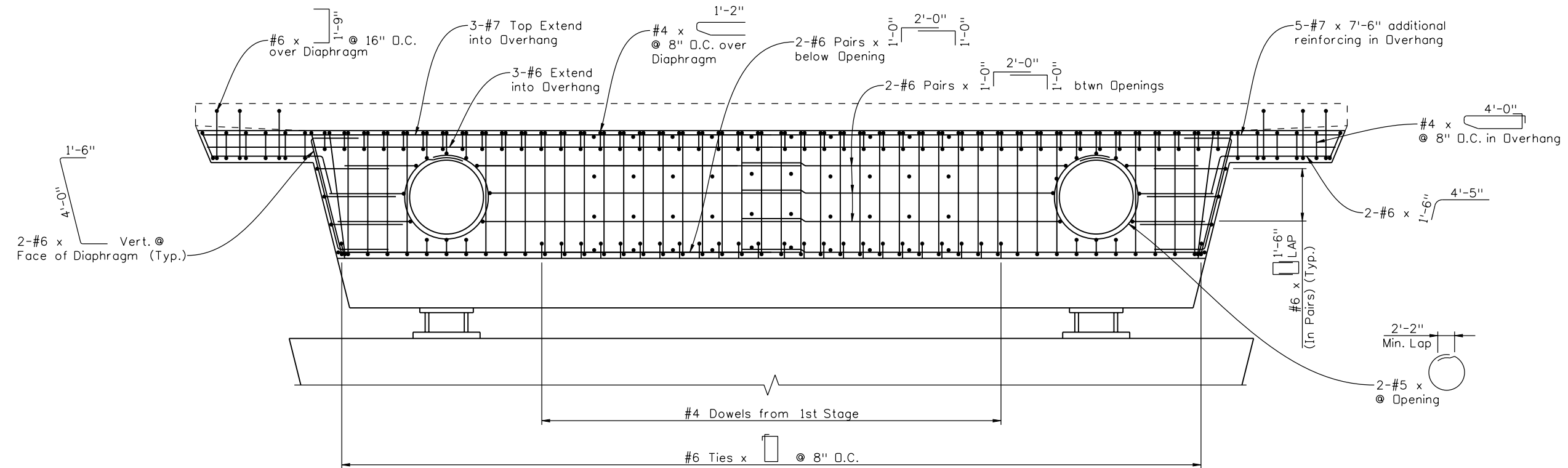
17783

Sheet Number **196 B**

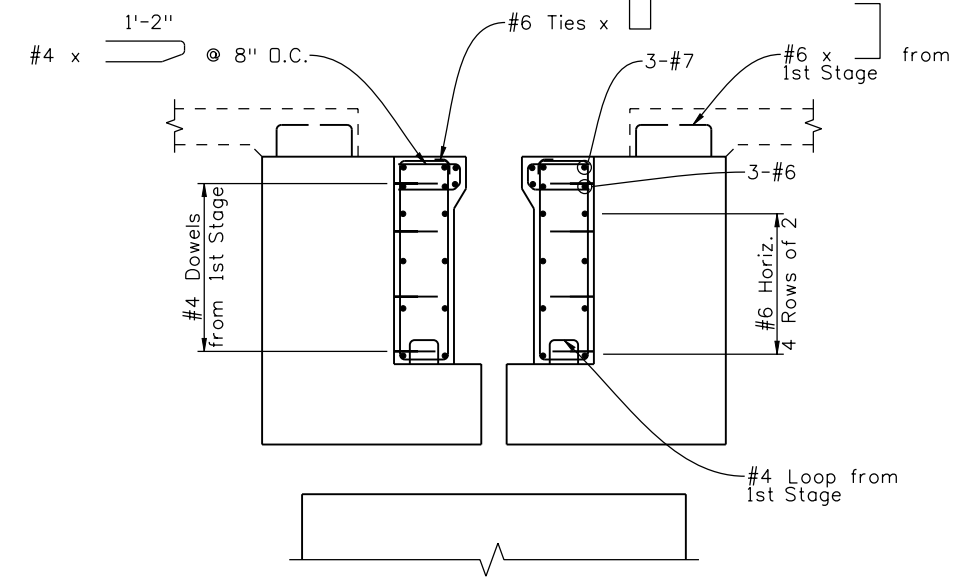


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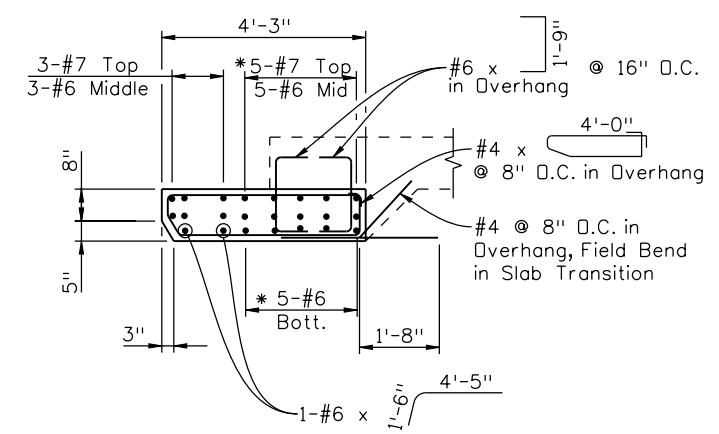
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	PRS	11/10	TF	11/10



**ELEVATION @ EXPANSION PIERS 4 & 8
2ND STAGE DIAPHRAGM POUR**

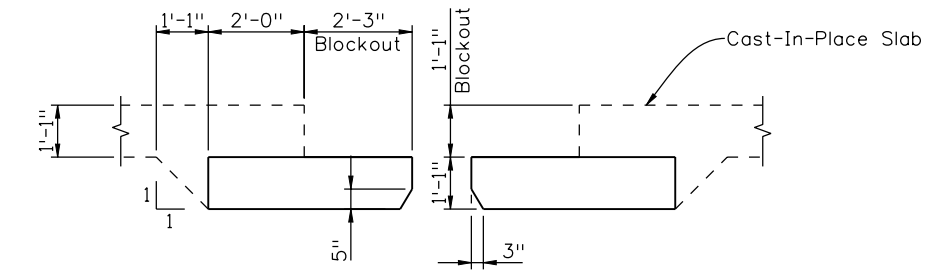


SECTION @ CENTER OF DIAPHRAGM



SECTION @ OVERHANG

* Reinforcing placed in 1st Stage



**SECTION @ OVERHANG
(Dimensions Only)**

NOTES:

1. PT Anchor locations are shown on the girder drawings.
2. Diaphragm concrete shall be Class D, 4500 psi.
3. All reinforcing shall be Grade 60.

Print Date: 12/22/2010	
File Name: 16311BRDGC_PH2_F-16-XR_PierExp06.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

Colorado Department of Transportation

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

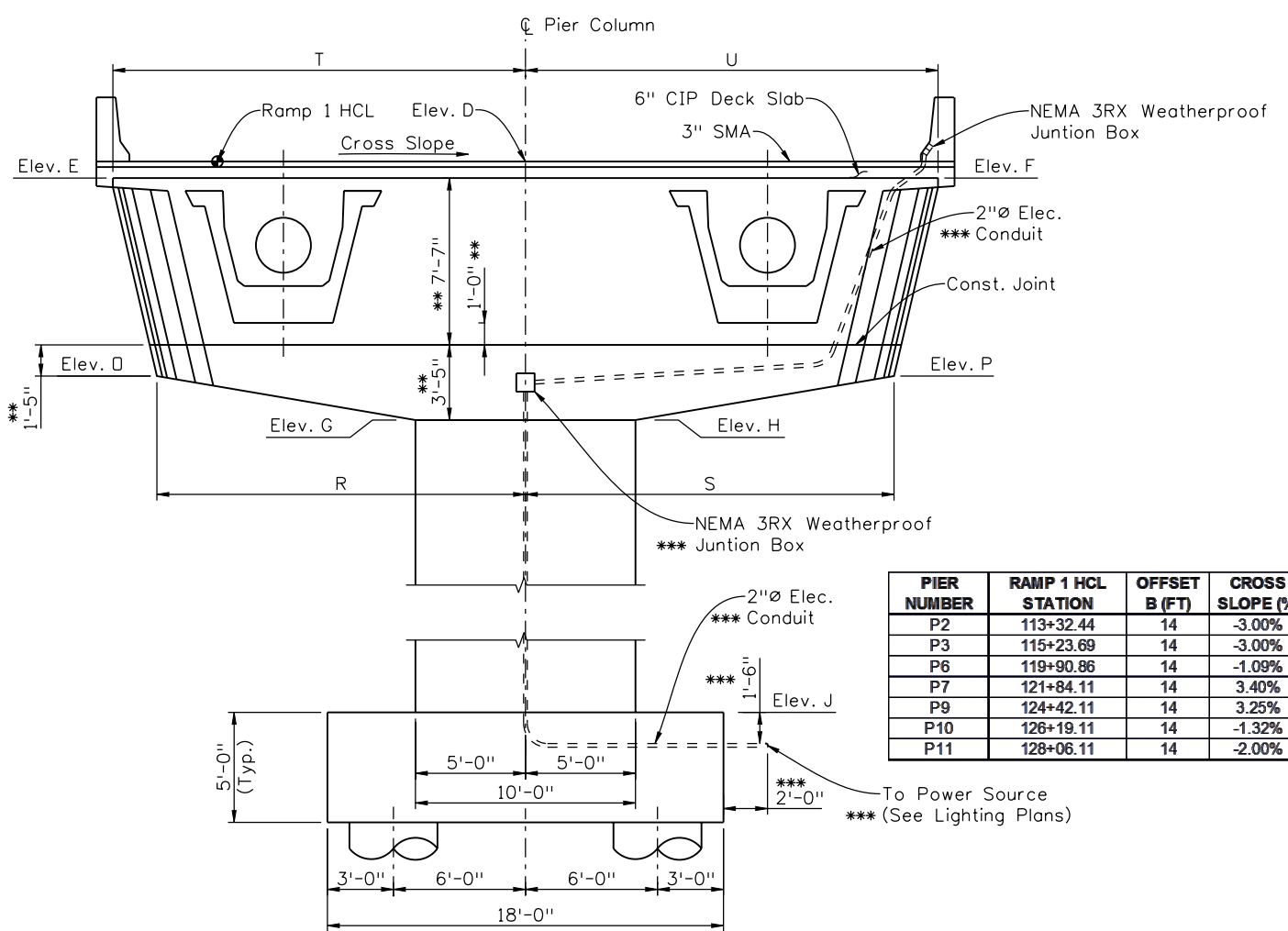
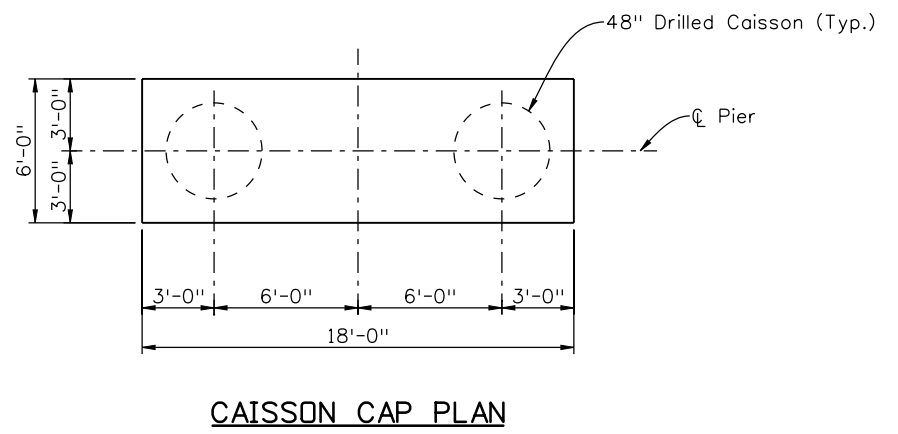
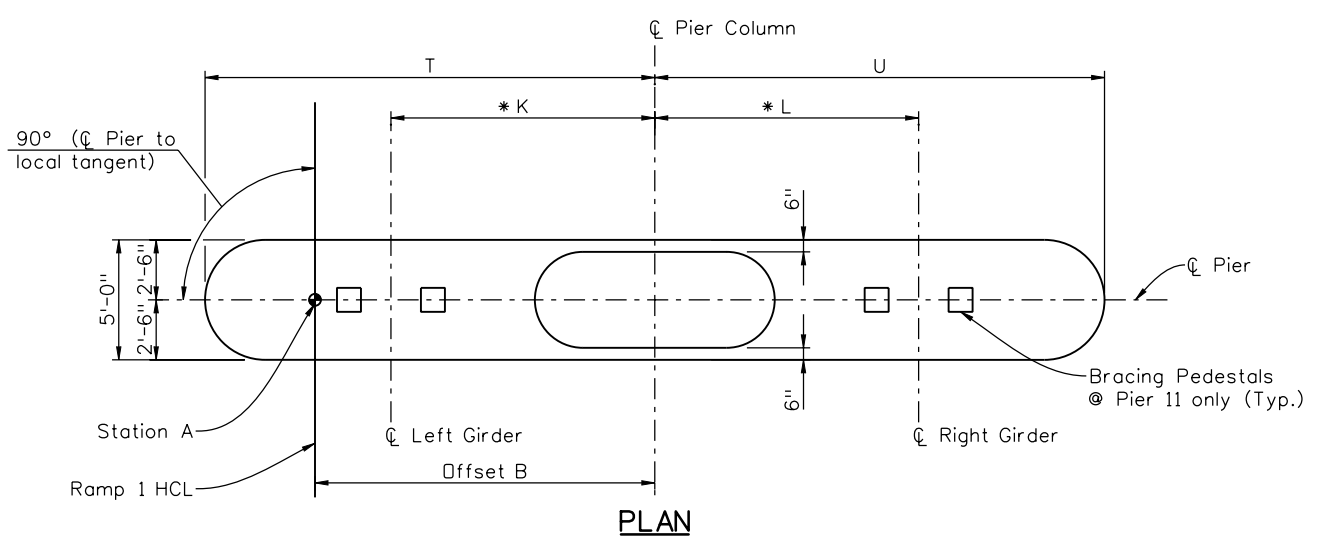
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
EXPANSION PIER DETAILS (6 OF 6)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR39 of 107

Project No./Code	BR 0252-407
Sheet Number	197 B

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11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By



PIER NUMBER	RAMP 1 HCL STATION	OFFSET B (FT)	CROSS SLOPE (%)	ELEV. D (FT.)	ELEV. E (FT.)	ELEV. F (FT.)	ELEV. G (FT.)	ELEV. H (FT.)	ELEV. J (FT.)	DIM. K (FT.)	DIM. L (FT.)	ELEV. O (FT.)	ELEV. P (FT.)	DIM. R (FT.)	DIM. S (FT.)	DIM. T (FT.)	DIM. U (FT.)	T.O. ASPHALT ELEV @ HCL
P2	113+32.44	14	-3.00%	5260.74	5260.55	5259.43	5249.14	5248.84	5218	11.22	10.77	5251.50	5250.49	17.04	16.44	18.77	18.71	5261.16
P3	115+23.69	14	-3.00%	5270.30	5270.12	5268.99	5258.70	5258.40	5229	11.22	10.77	5261.06	5260.06	17.04	16.44	18.77	18.71	5270.72
P6	119+90.86	14	-1.09%	5281.33	5280.79	5280.38	5269.64	5269.53	5232	11.08	10.92	5271.77	5271.40	16.86	16.64	18.76	18.74	5281.49
P7	121+84.11	14	3.40%	5278.42	5277.04	5278.31	5266.50	5266.84	5227	10.75	11.23	5268.11	5269.25	16.42	17.06	18.72	18.76	5277.95
P9	124+42.11	14	3.25%	5269.55	5268.19	5269.40	5257.63	5257.95	5223	10.76	11.22	5259.26	5260.34	16.43	17.05	18.72	18.76	5269.09
P10	126+19.11	14	-1.32%	5262.78	5262.28	5261.79	5251.10	5250.97	5226	11.10	10.90	5253.25	5252.81	16.88	16.62	18.76	18.74	5262.97
P11	128+06.11	14	-2.00%	5256.22	5255.84	5255.09	5244.56	5244.36	5225	11.15	10.85	5246.80	5246.13	16.94	16.55	18.76	18.73	5256.50

NOTES:

- All dimensions are measured horizontally unless noted otherwise.
- Dimensions K & L are measured horizontally @ bottom of girder.
- All Girders are assumed to be 22'-0" ϕ to ϕ along the slope.
- Elevations are @ ϕ Pier.
- Vertical dimensions are perpendicular to deck.

ELEVATION
(PIERS 2,3,6,7,9,10 & 11)

*** Pier 7 Only

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PierInterior01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
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 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 INTERIOR PIER DETAILS (1 OF 4)

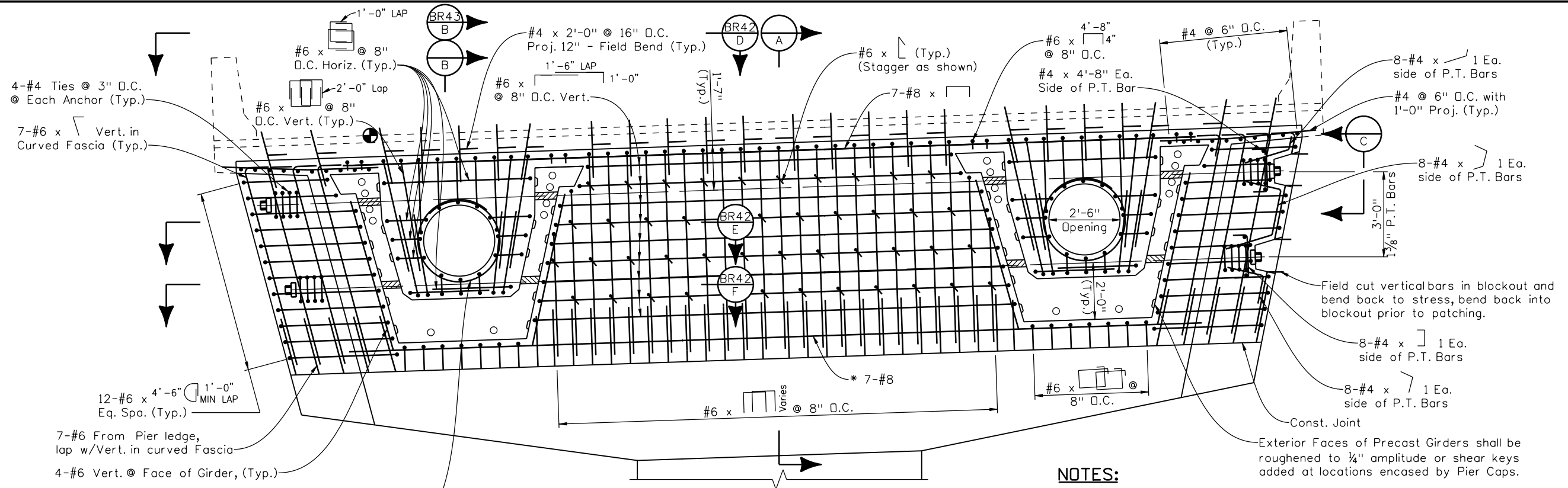
Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR40 of 107

Project No./Code
 BR 0252-407
 17783
 Sheet Number 198 B



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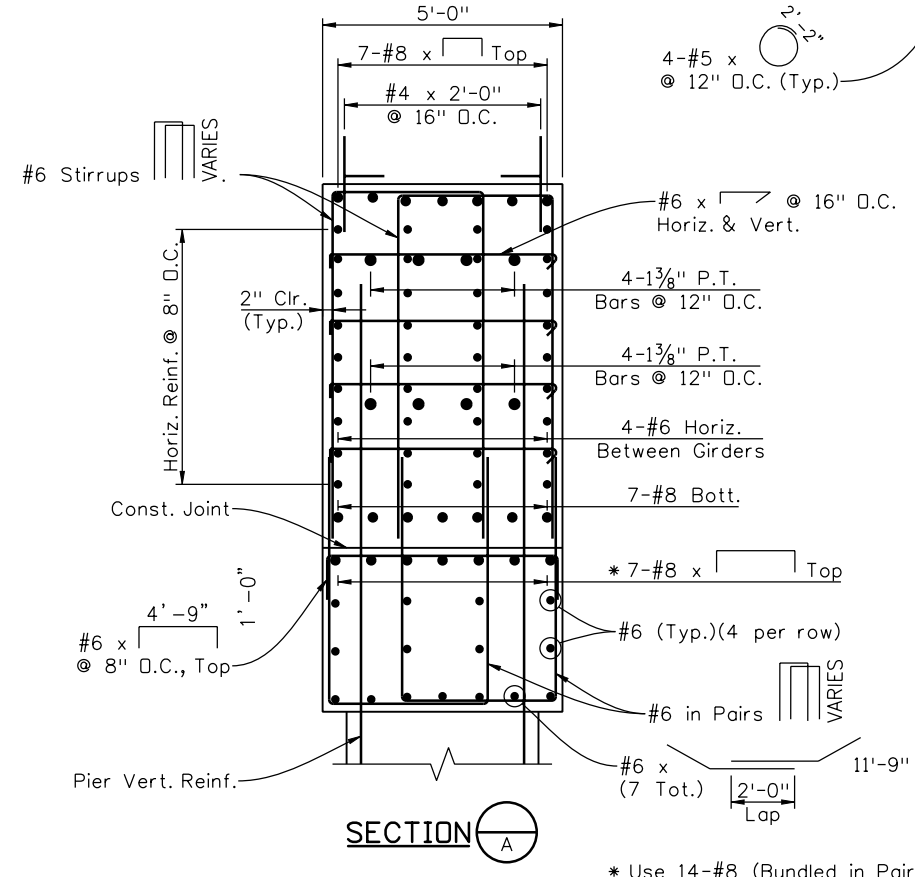
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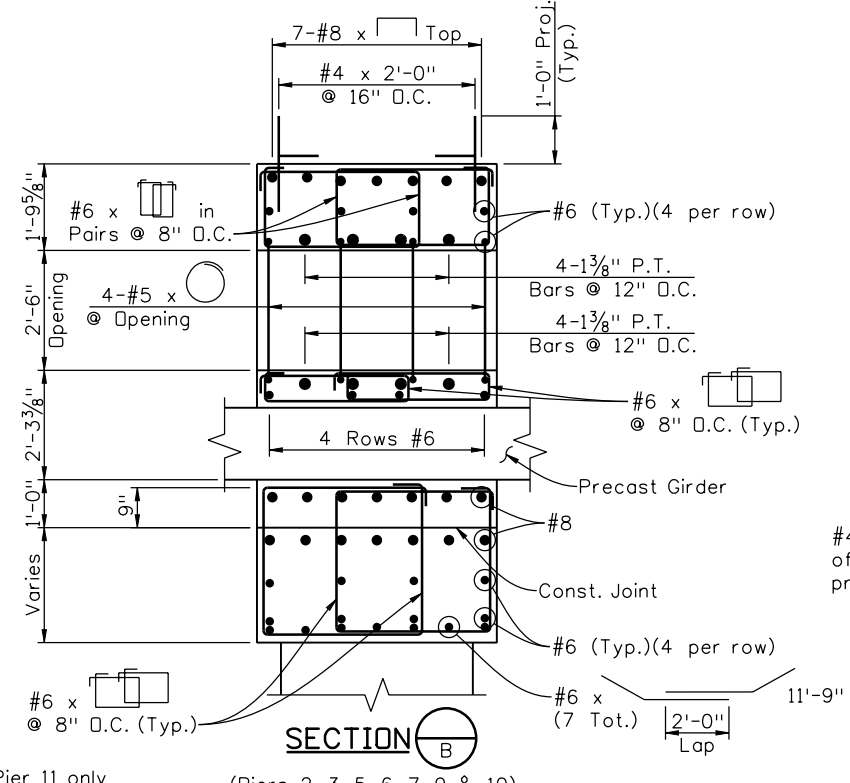
ELEVATION - INTERIOR PIER DIAPHRAGM
(Piers 2, 3, 6, 7, 9, 10 & 11)
(Typical Deck, Bottom Slab and Haunch Reinforcement not shown)

NOTES:

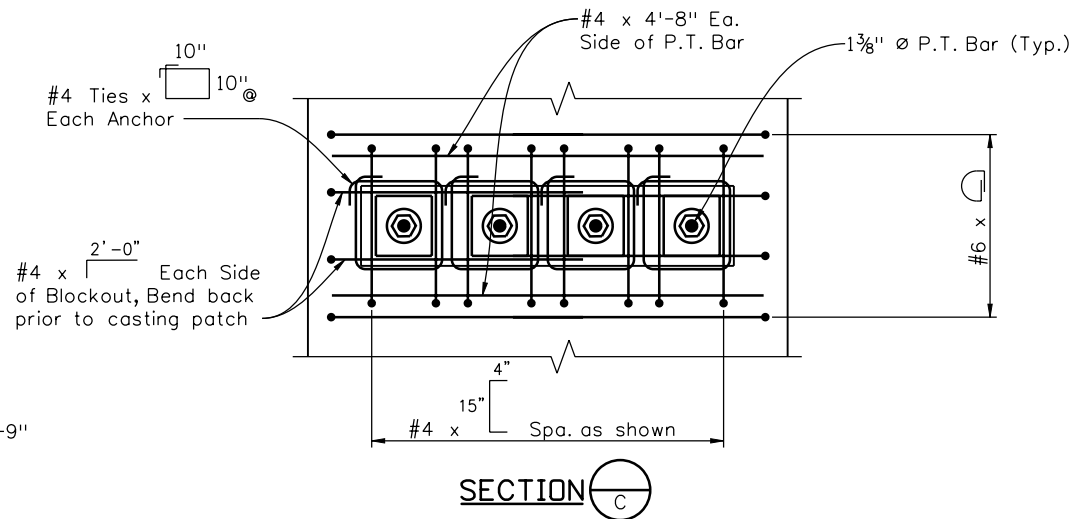
- Concrete shall be Class D, F'c = 4500 psi at 28 days.
- Concrete shall obtain a minimum strength of 3500 psi prior to stressing.
- Minimum guaranteed ultimate stress of PT bars is 150 ksi.
- PT bars, ducts and all hardware shall be placed and secured in the forms prior to casting pier caps.
- PT bars shall be stressed from one end to a jacking force (Pjack) of 178 kips each (75% ULT).
- Interior bars shall be stressed first.
- Bars shall be grouted within 7 days of stressing.



SECTION A



SECTION B



SECTION C

* Use 14-#8 (Bundled in Pairs) @ Pier 11 only

(Piers 2, 3, 5, 6, 7, 9 & 10)

Print Date: 12/22/2010	File Name: 16311BRDG_PH2_F-16-XR_PierInterior02.dgn
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

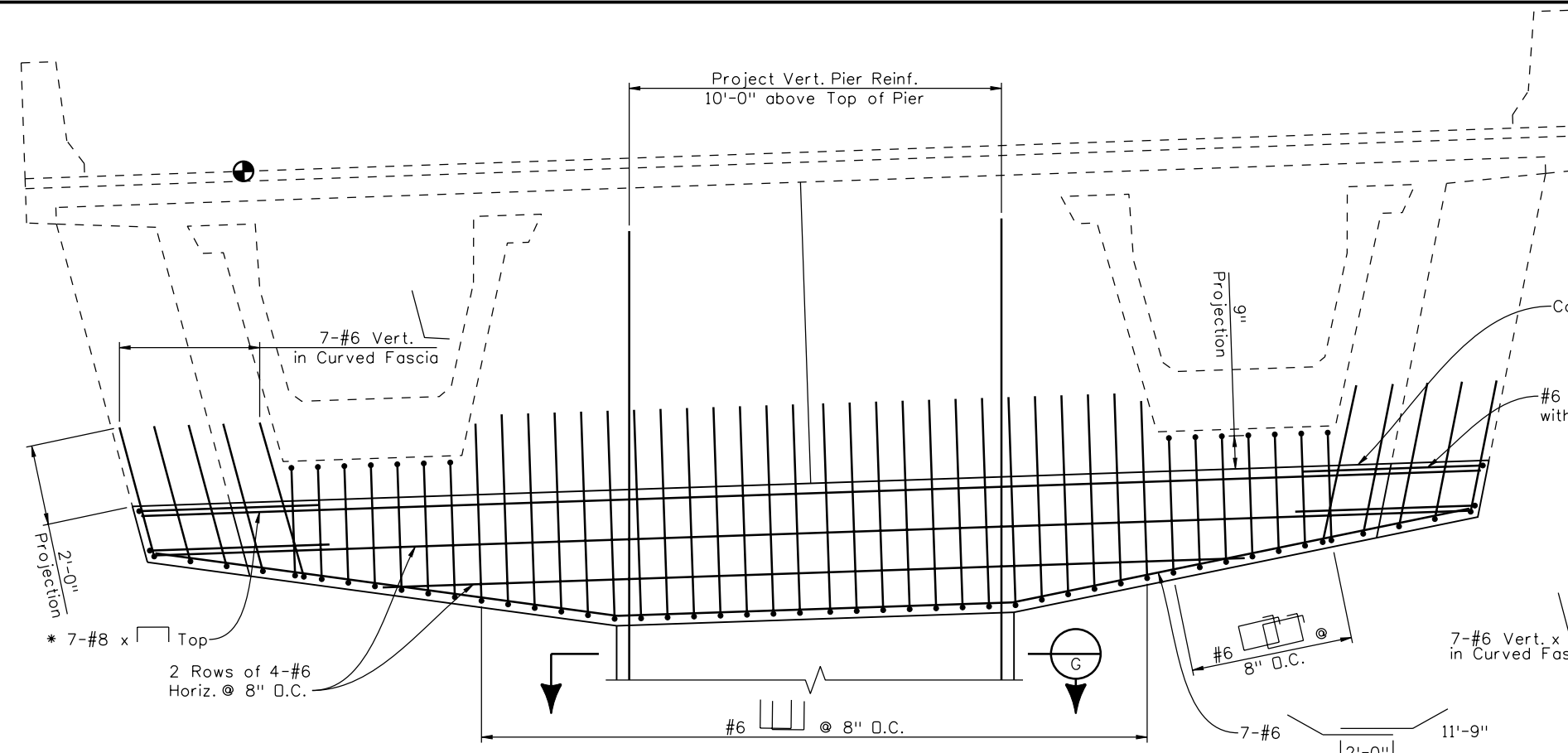
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subset Sheets:		BR41 of 107	

Project No./Code	BR 0252-407
	17783
Sheet Number	199 B

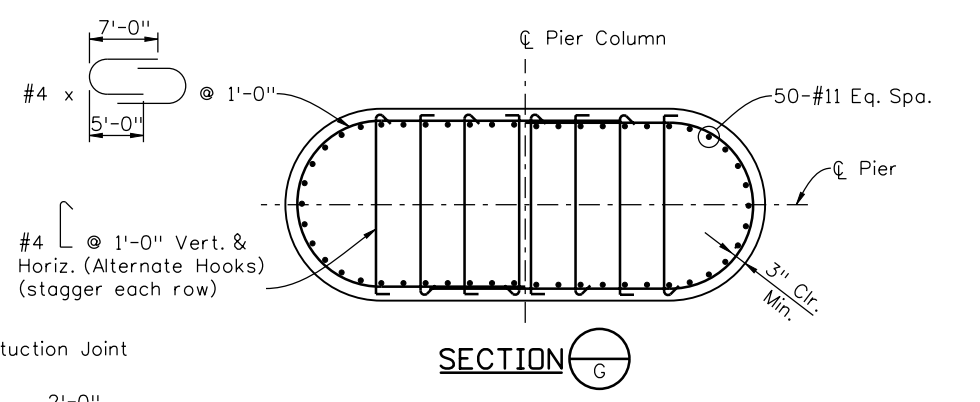


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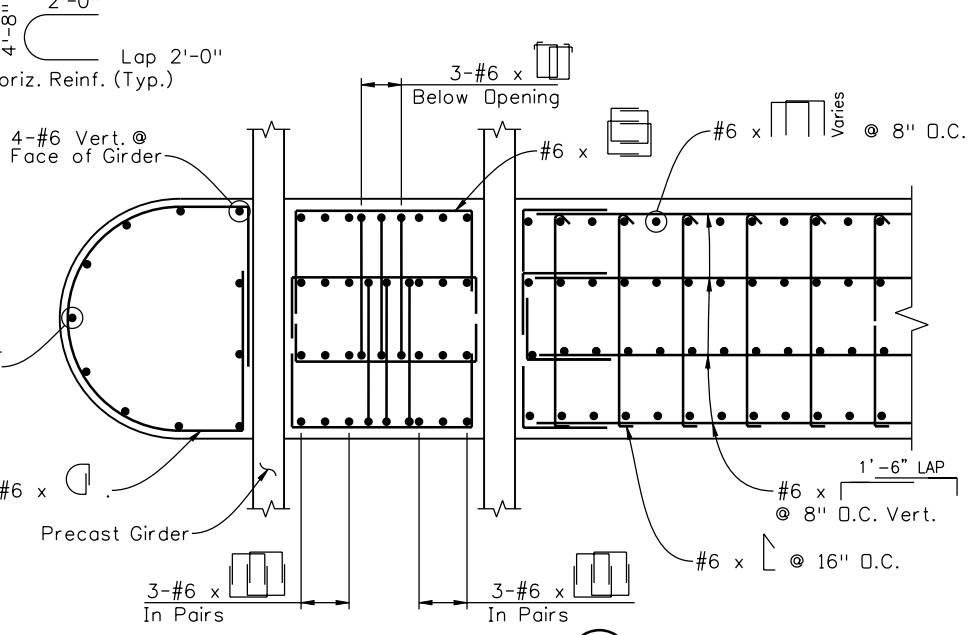
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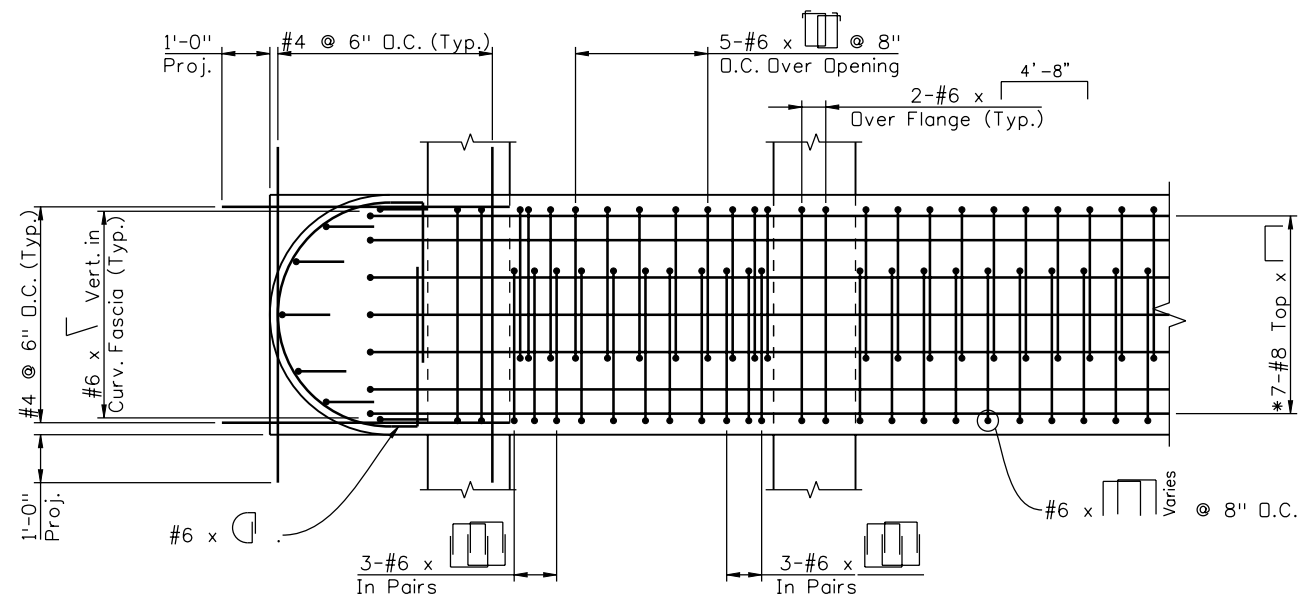
ELEVATION - BOTTOM EDGE OF PIER CAP
(Piers 2, 3, 6, 7, 9, 10, & 11)



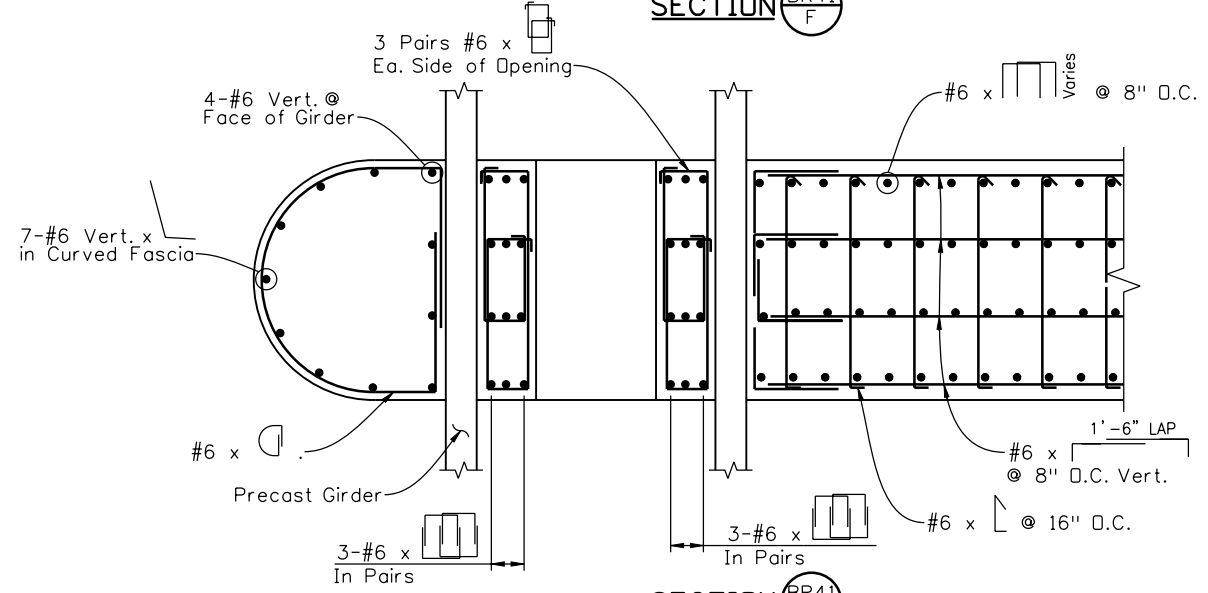
SECTION G



SECTION BR41 F



SECTION BR41 D



SECTION BR41 E

* Use 14-#8 (Bundled in Pairs) @ Pier 11 only

Print Date: 12/22/2010	File Name: 16311BRDG_PH2_F-16-XR_PierInterior03.dgn
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

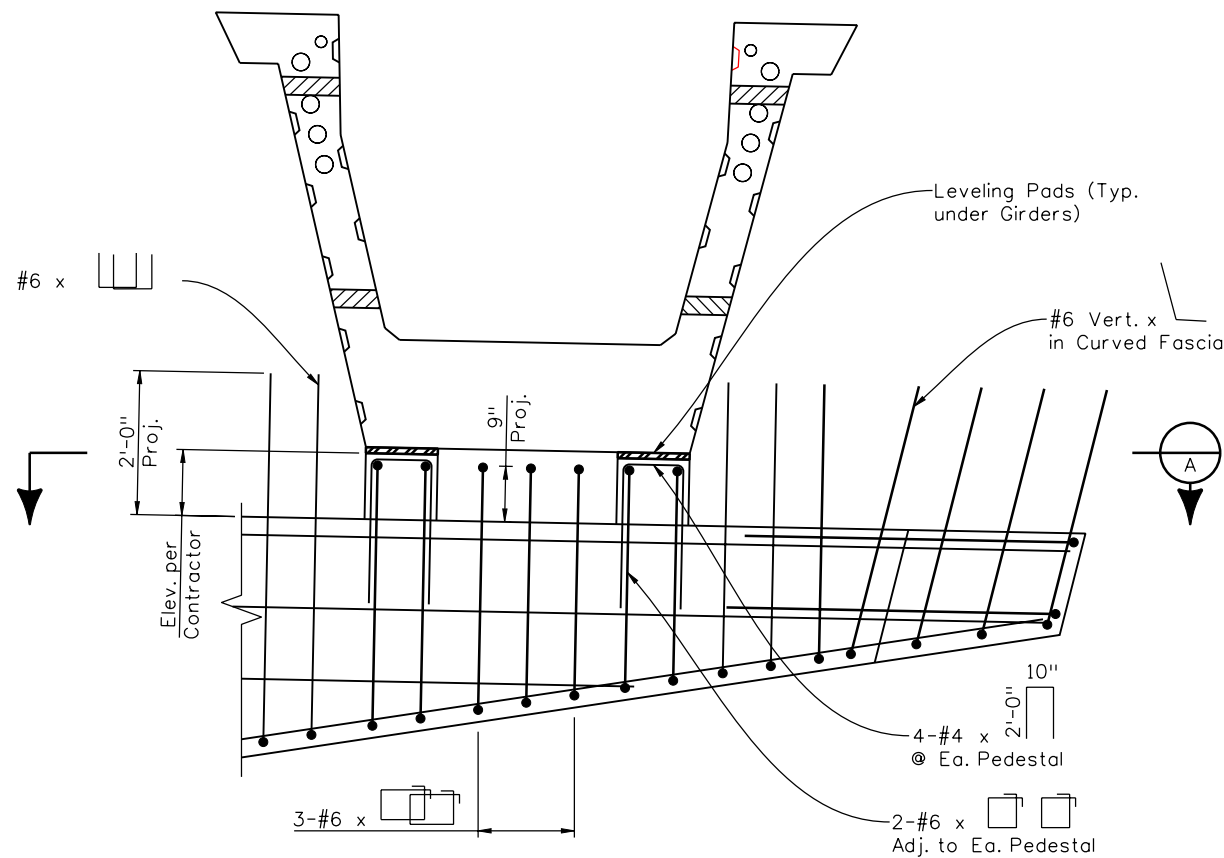
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

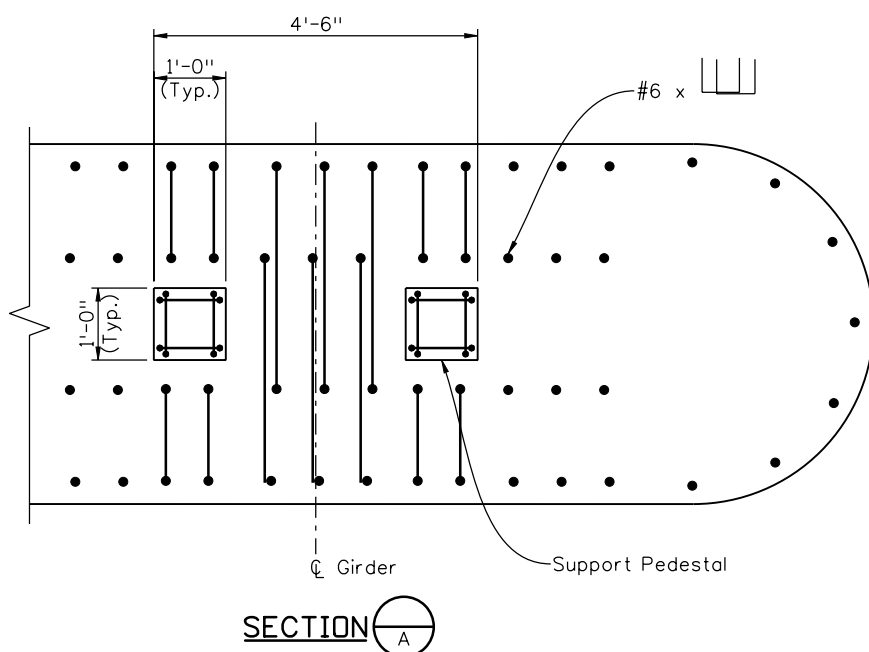
I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
INTERIOR PIER DETAILS (3 OF 4)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subst Sheets:		BR42 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 200 B

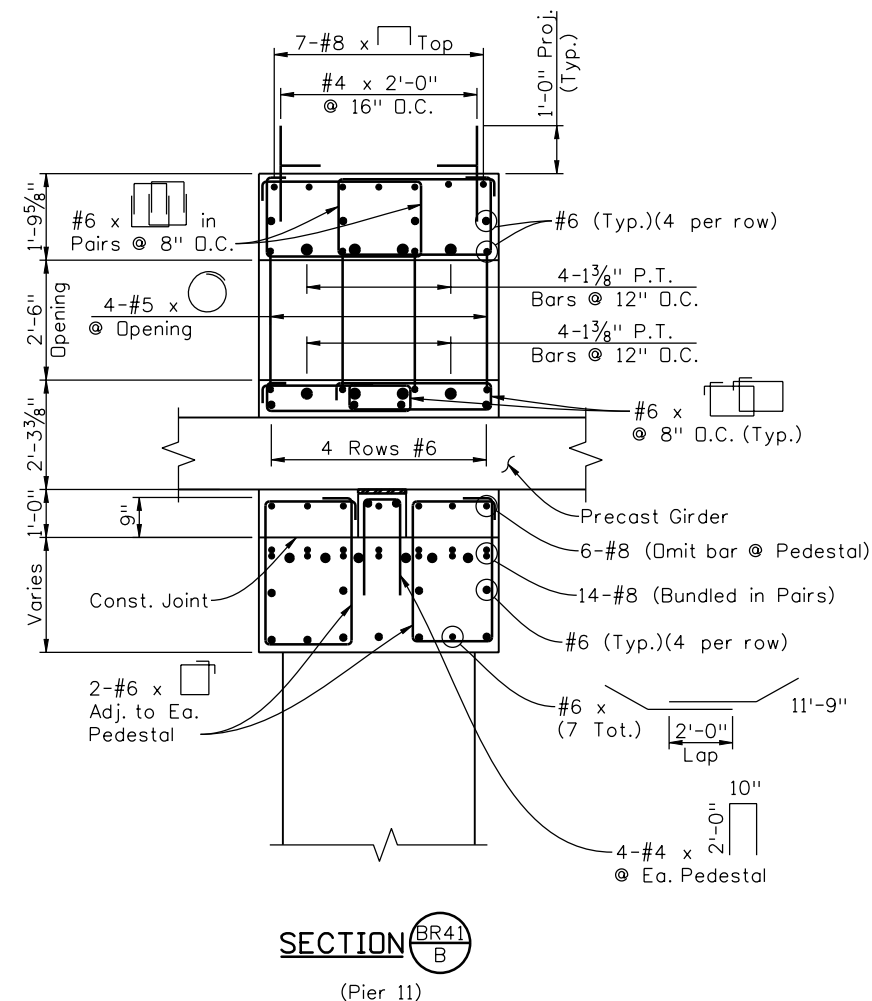




**ELEVATION - PIER 11 GIRDER
SUPPORT PEDESTAL DETAIL**



SECTION A



**SECTION BR41
B**
(Pier 11)

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Gar	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By
Gar	KJS	TF	TF	TF	TF

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_PierInterior04.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)
			(R-4)

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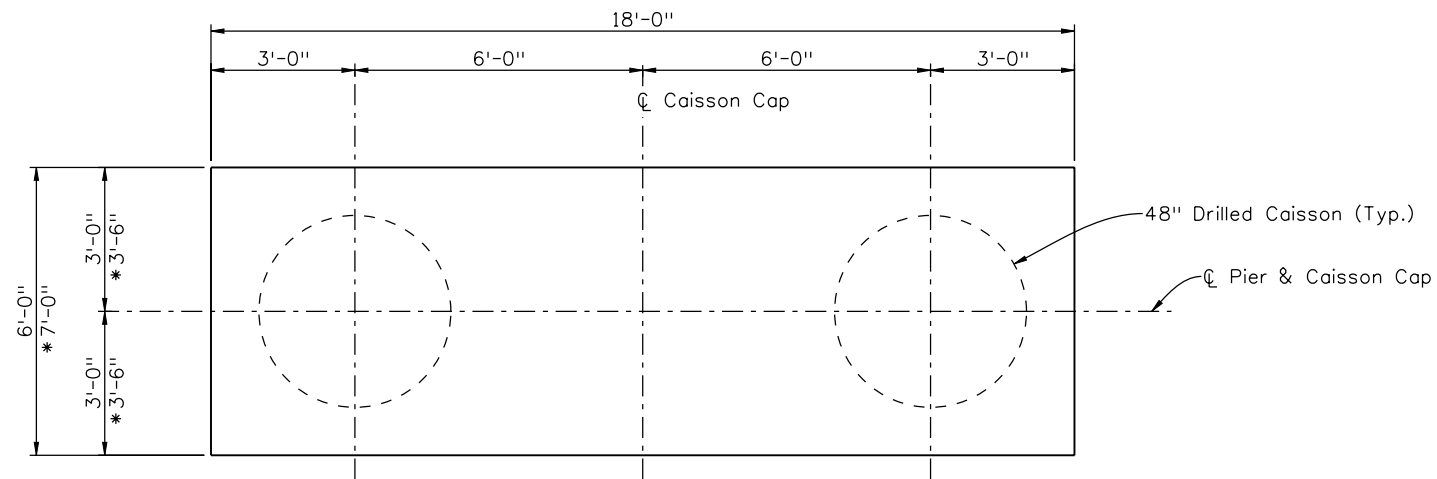
Region 6 RLB

As Constructed
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Revised:
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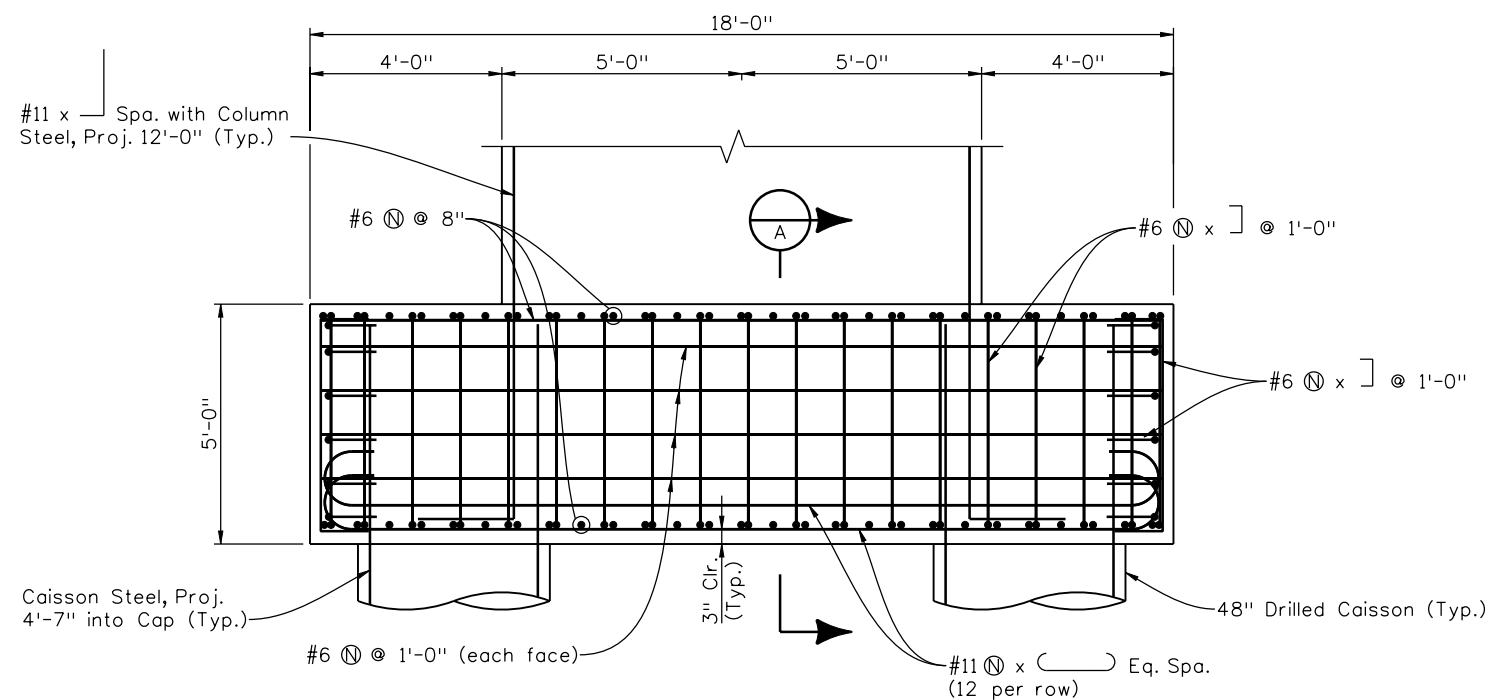
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INTERIOR PIER DETAILS (4 OF 4)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR43 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 201 B

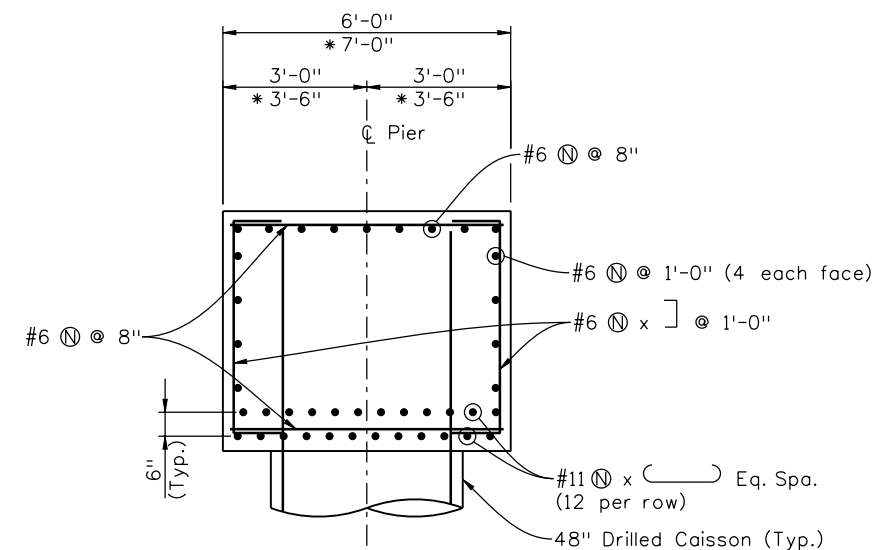
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PLAN
(Shown for Piers 2,3,6,7,9,10 & 11)
Piers 4 & 8 similar except as noted)



ELEVATION



SECTION A

*(Piers 4 & 8)

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Gar	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_CaissonCap.dgn	
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
1/3/11	Misc. Revisions	GAR

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As Constructed
No Revisions:
Revised:
Void:

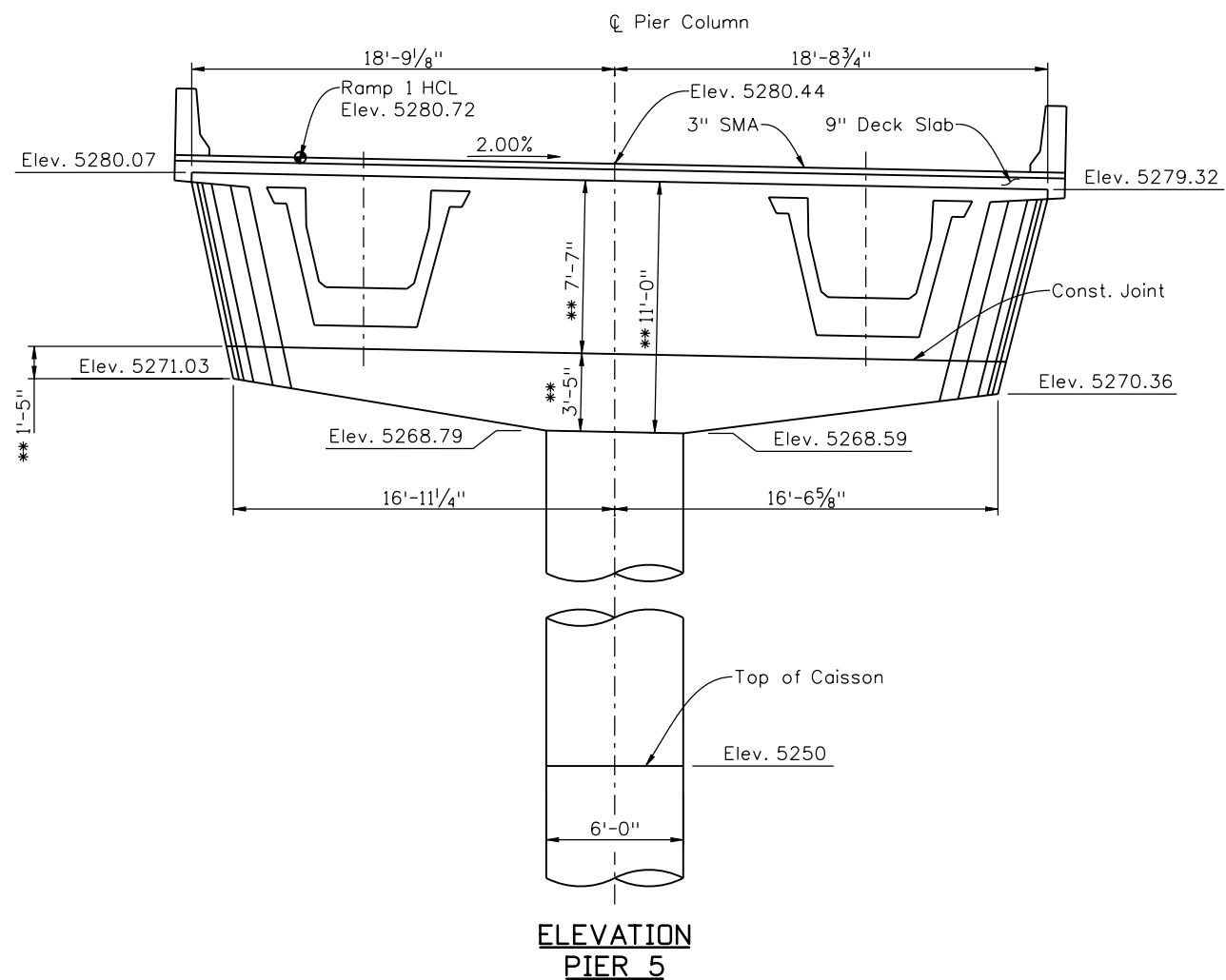
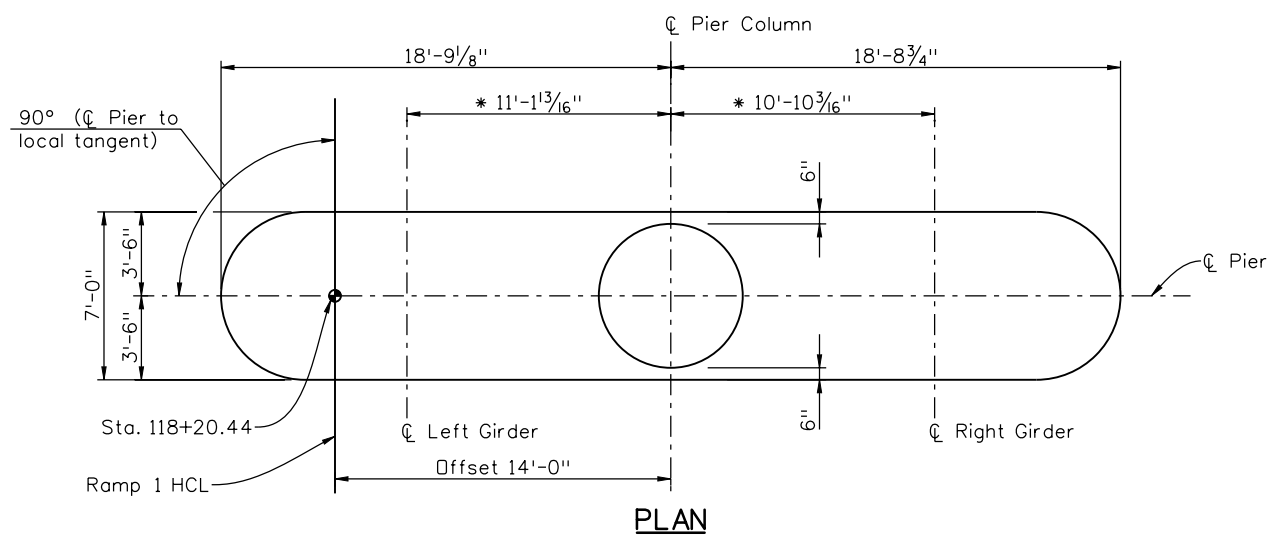
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR44 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 202 B

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Gar	08/10	KJS	09/10	KJS	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10



NOTES:

- All dimensions are measured horizontally unless noted otherwise.
- Dimensions are measured horizontally @ bottom of girder.
- All Girders are assumed to be 22'-0" C to C along the slope.
- Elevations are @ C Pier.
- Vertical dimensions are perpendicular to deck.

Print Date: 12/22/2010	 10822 Teller Drive Suite 330 Littleton, CO 80127
File Name: 16311BRDG_PH2_F-16-XR_Pier5det01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

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Region 6 **RLB**

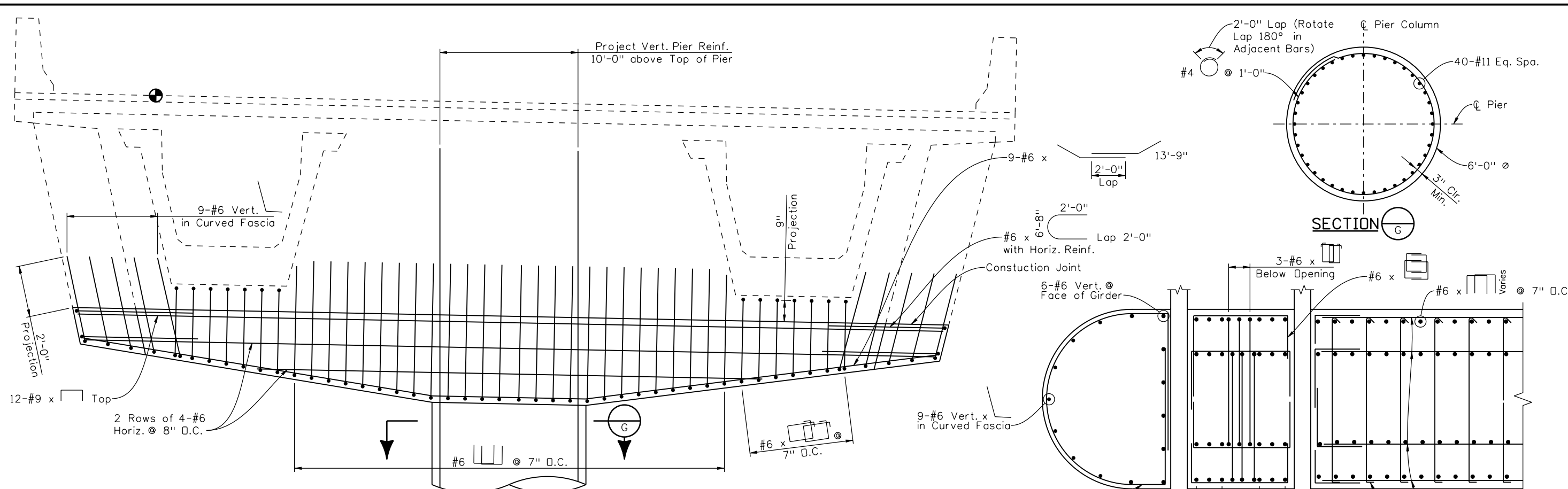
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE			
RAMP 1 FLYOVER			
PIER 5 DETAILS (1 OF 3)			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR45 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 203 B

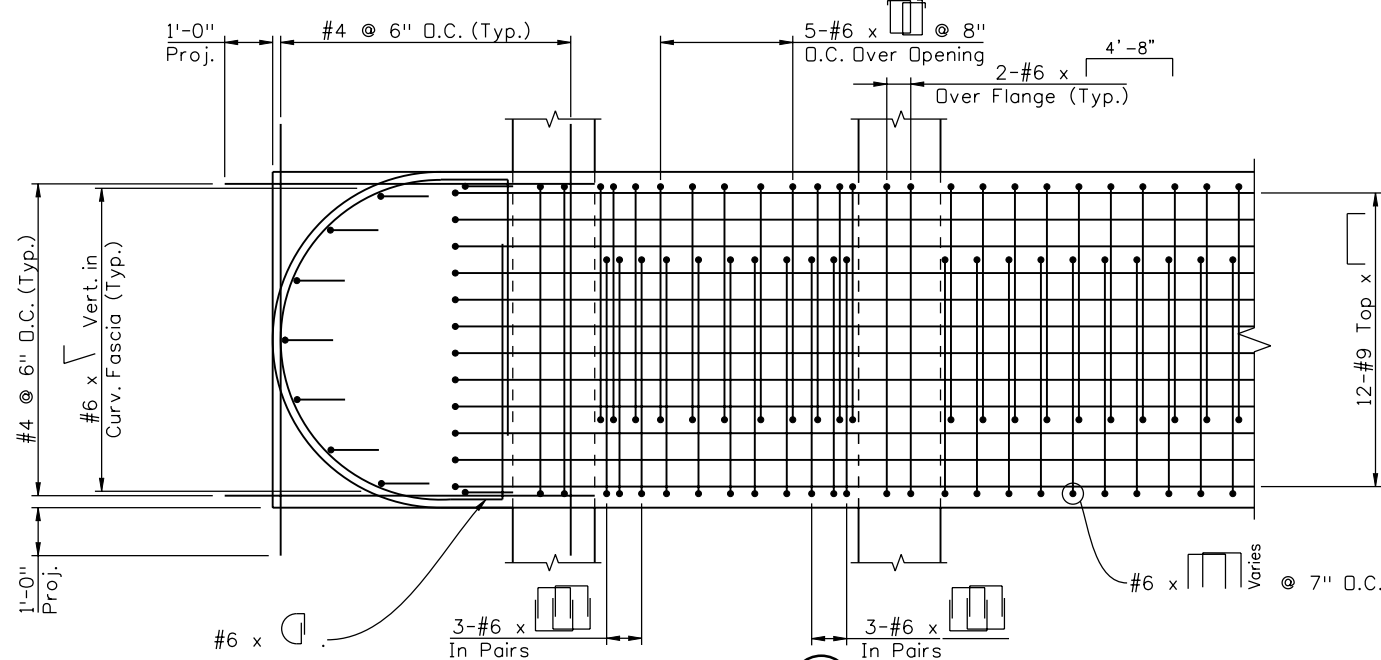
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
GAR	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Quantities By	Checked By

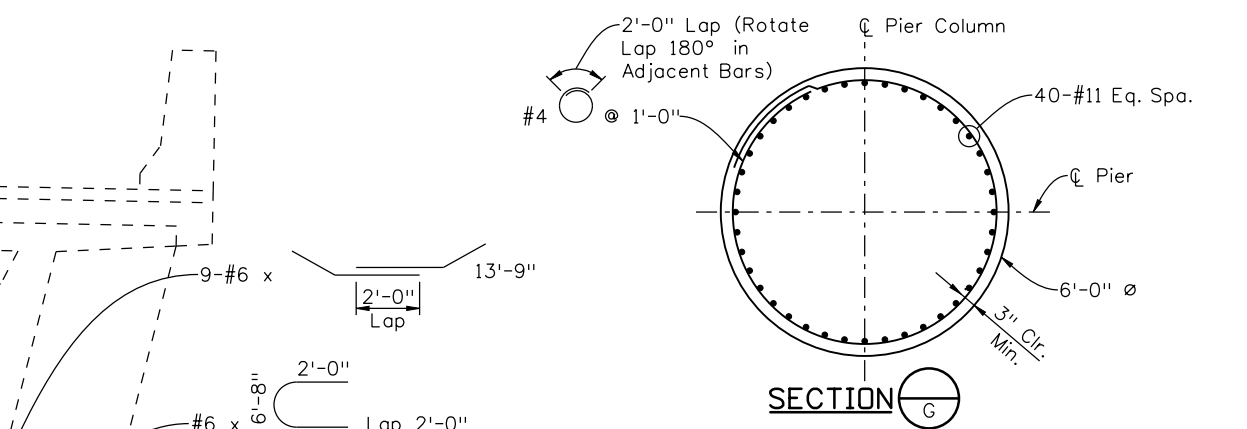


ELEVATION - BOTTOM EDGE OF PIER CAP

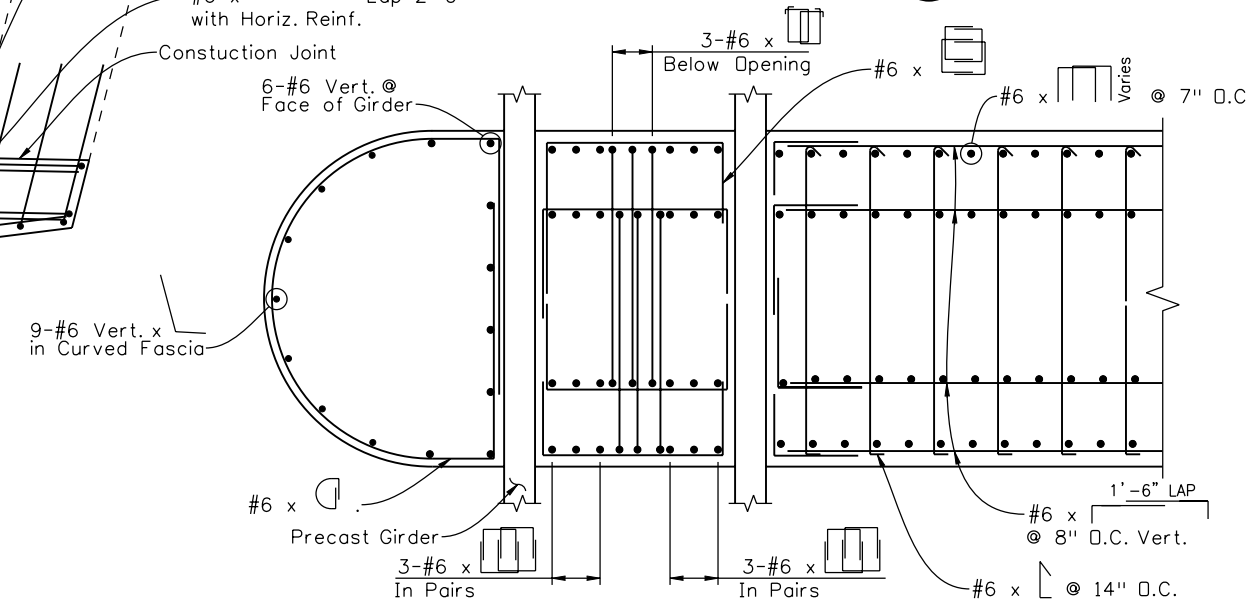
(Pier 5)



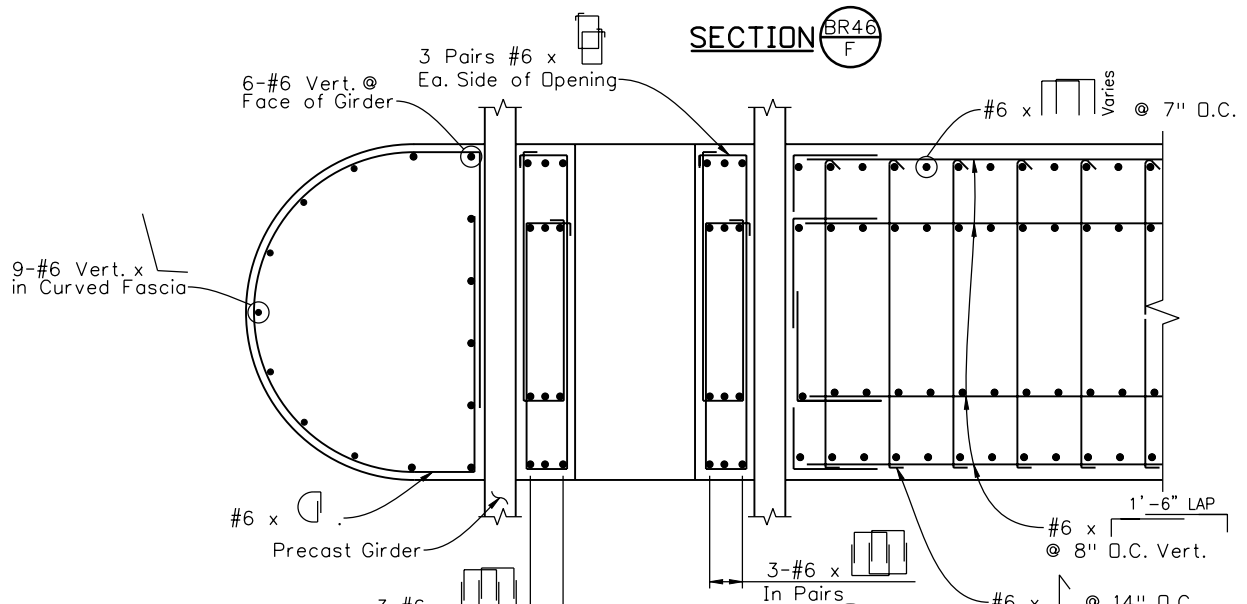
SECTION BR46 D



SECTION G



SECTION BR46 F



SECTION BR46 E

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_Pier5det03.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	
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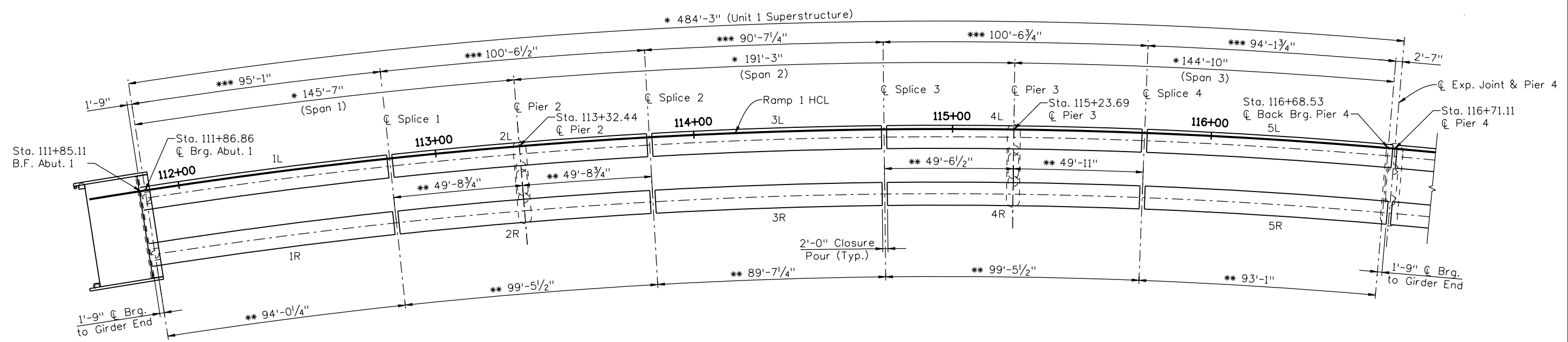
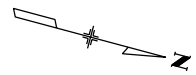
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
PIER 5 DETAILS (3 OF 3)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner		
Sheet Subset:	Bridge	Subset Sheets:	BR47 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 205B





UNIT 1 SEGMENT LAYOUT PLAN

- * Dimensions measured along Ramp 1 HCL.
- ** Dimensions measured along Ctr. Right Girder.
- *** Dimensions measured along Ctr. Left Girder.

Revision Dates (Preliminary Stage Only)	
Revision	Date

Design		Detail		Quantities	
Designed By	Checked By	INITIAL	DATE	INITIAL	DATE
		KJS	08/10		

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Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

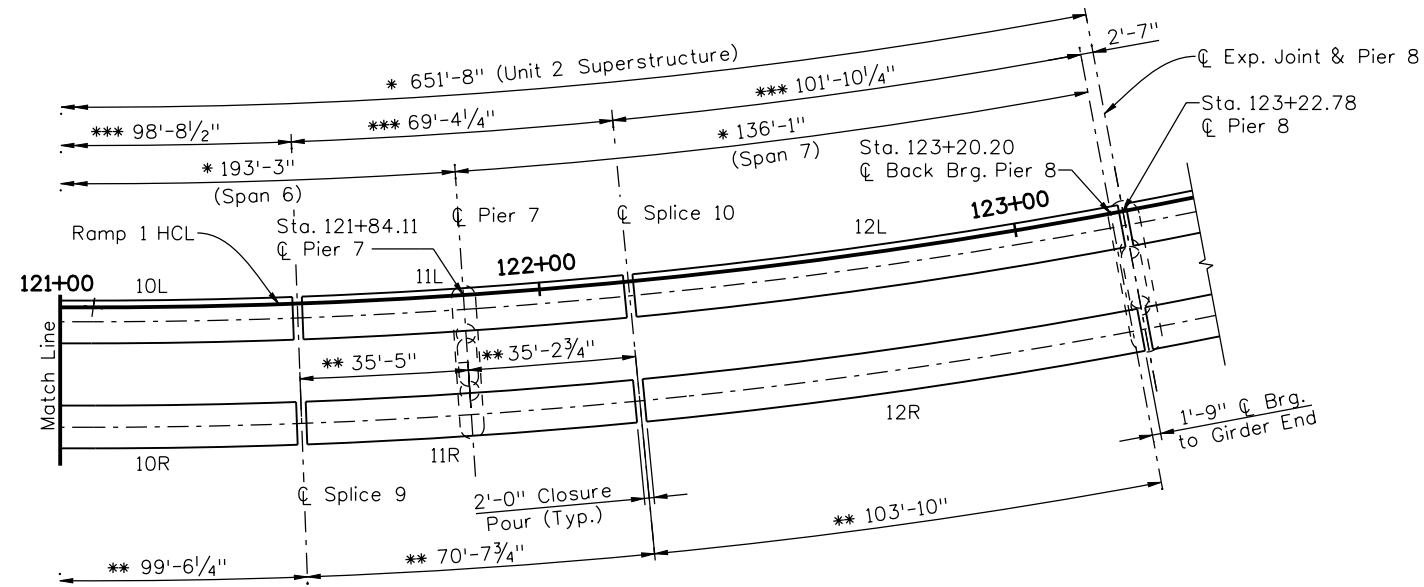
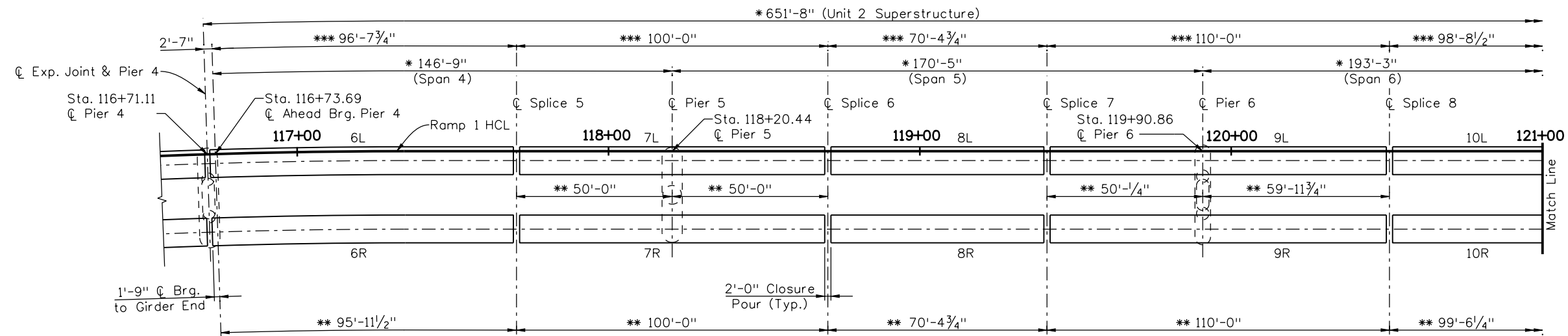
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER UNIT 1 SEGMENT LAYOUT			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner		
Sheet Subset:	Bridge	Subset Sheets:	BR48 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 206





UNIT 2 SEGMENT LAYOUT PLAN

- * Dimensions measured along Ramp 1 HCL.
- ** Dimensions measured along C Right Girder.
- *** Dimensions measured along C Left Girder.

Revision Dates (Preliminary Stage Only)	
NO.	DATE

Design		Quantities	
INITIAL	DATE	INITIAL	DATE

Print Date: 10/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_SegLayout02.dgn	
Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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Region 6 RLB

As Constructed
No Revisions:
Revised:
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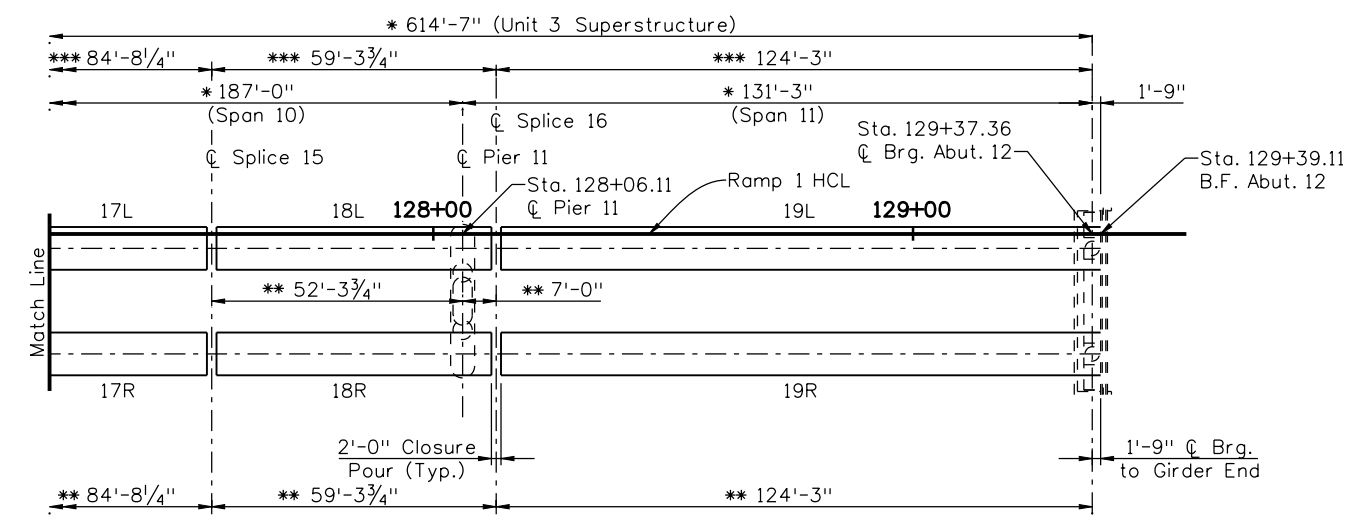
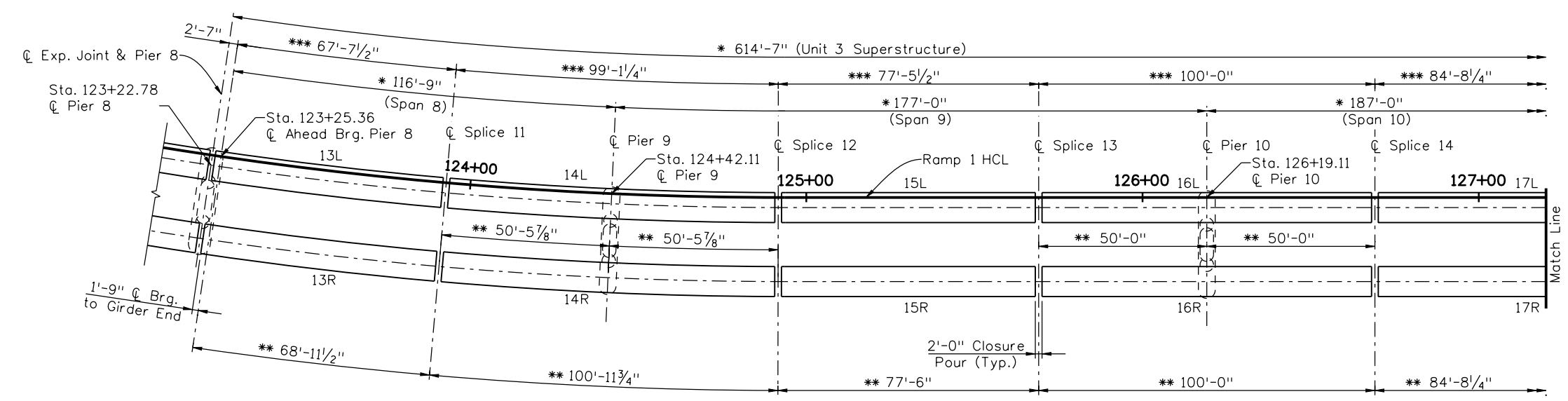
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR49 of 107
Sheet Subset:	Bridge		

Project No./Code
BR 0252-407
17783
Sheet Number 207

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Checked By	11/10	PRS	11/10	TF	11/10
		Checked By		Checked By	



UNIT 3 SEGMENT LAYOUT PLAN
 * Dimensions measured along Ramp 1 HCL.
 ** Dimensions measured along Right Girder.
 *** Dimensions measured along Left Girder.

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_SegLayout03.dgn	
Unit Information	
Horiz. Scale: 1:40	Unit Leader Initials
Vert. Scale: As Noted	
10822 Teller Drive Suite 330 Littleton, CO 80127	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
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Colorado Department of Transportation

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 Region 6 RLB

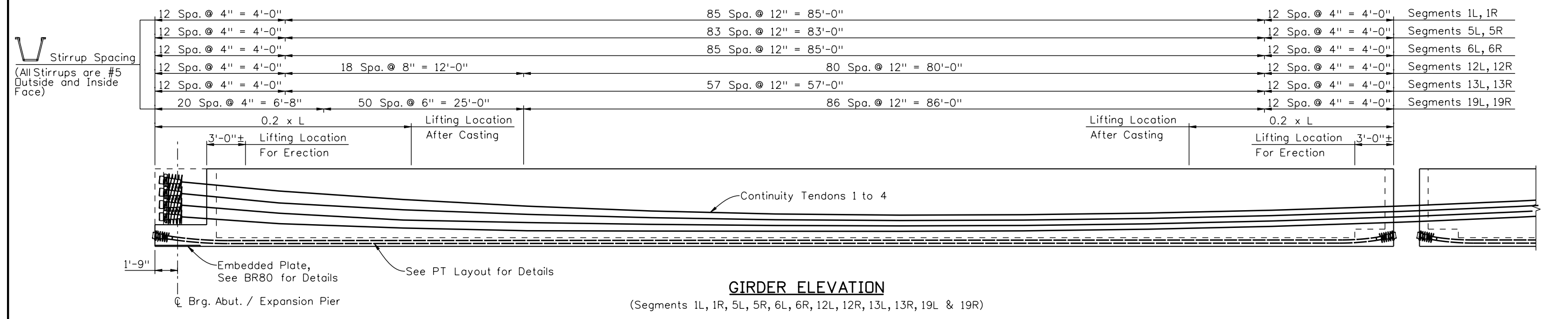
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER UNIT 3 SEGMENT LAYOUT			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR50 of 107
Sheet Subset:	Bridge		

Project No./Code	BR 0252-407
	17783
Sheet Number	208 B

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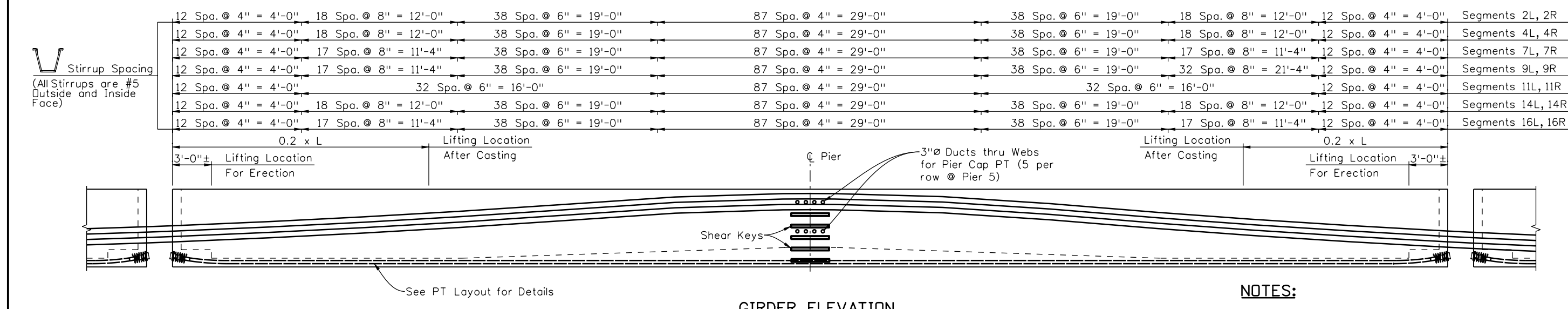
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DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	TF
11/10	PRS	11/10	TF		
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By



GIRDER ELEVATION

(Segments 1L, 1R, 5L, 5R, 6L, 6R, 12L, 12R, 13L, 13R, 19L & 19R)

Note: Above girders shall not be supported within 5'-0" minimum of end prior to stressing bottom slab pt.



GIRDER ELEVATION

(Segments 2L, 2R, 4L, 4R, 7L, 7R, 9L, 9R, 11L, 11R, 14L, 14R, 16L & 16R)

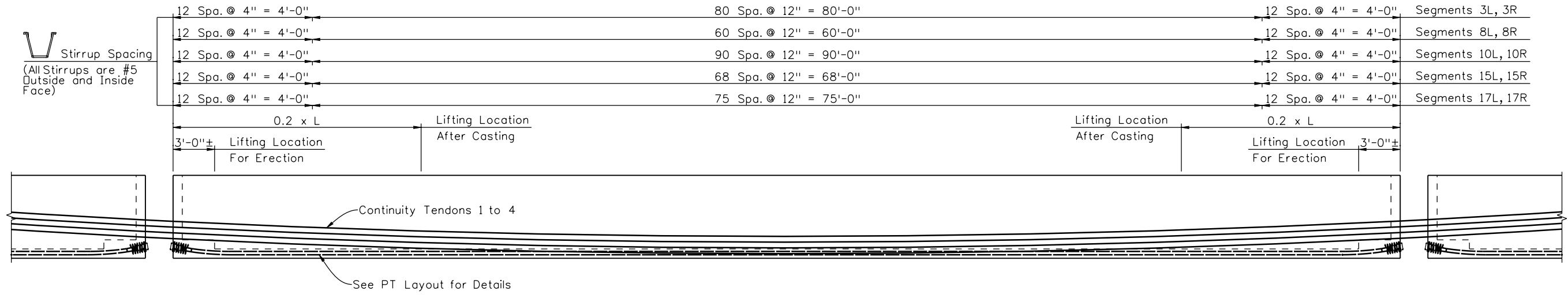
NOTES:

1. Reinforcing projecting from the top of the girder and reinforcing within eight feet of an expansion device in the bridge deck shall be epoxy coated. Damaged coating on girder reinforcing need not be repaired.

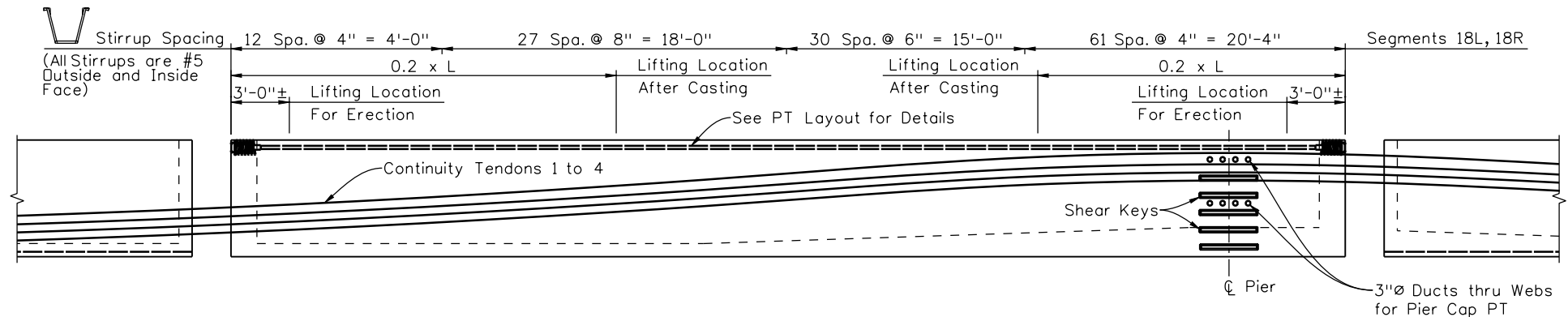
Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER GIRDER DETAILS (1 OF 5)			Project No./Code BR 0252-407 17783 Sheet Number 209 B
File Name: 16311BRDG_PH2_F-16-XR_GirderDet01.dgn	Date:	Comments	Init.			Designer: G. Reese Detailer: K. Soellner Sheet Subset: Bridge	Structure Numbers F-16-XR Subset Sheets: BR51 of 107		
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR	 10822 Teller Drive Suite 330 Littleton, CO 80127	RLB				
Unit Information	1/3/11	Misc. Revisions	GAR						

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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10



GIRDER ELEVATION
(Segments 3L, 3R, 8L, 8R, 10L, 10R, 15L, 15R, 17L & 17R)



GIRDER ELEVATION
(Segments 18L & 18R)

- NOTES:**
1. Reinforcing projecting from the top of the girder and reinforcing within eight feet of an expansion device in the bridge deck shall be epoxy coated. Damaged coating on girder reinforcing need not be repaired.

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_GirderDet02.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
1/3/11	Misc. Revisions	GAR

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

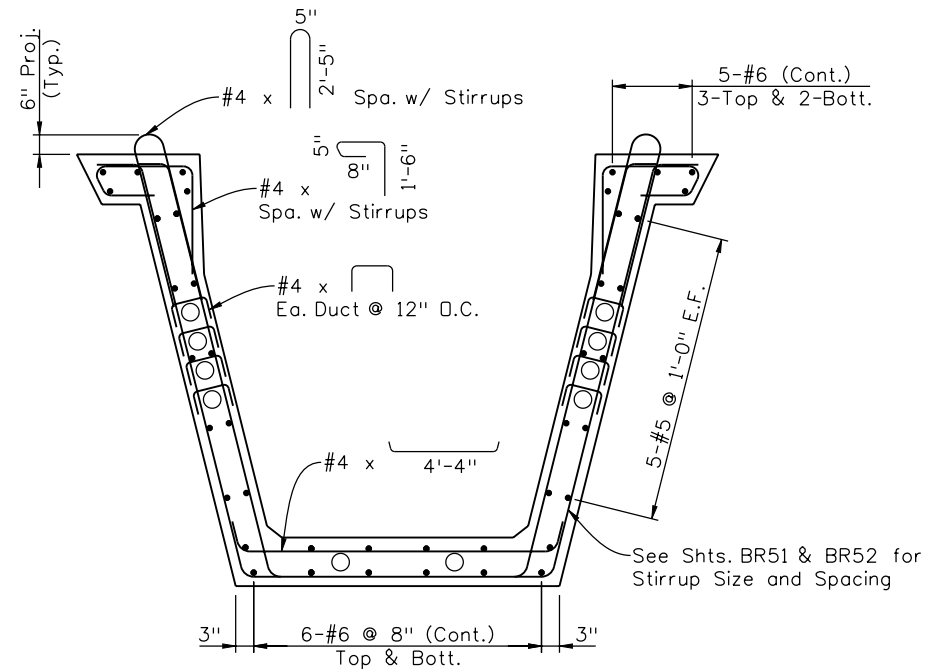
I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER GIRDER DETAILS (2 OF 5)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR52 of 107
Sheet Subset:	Bridge		

Project No./Code
BR 0252-407
17783
Sheet Number 210 B

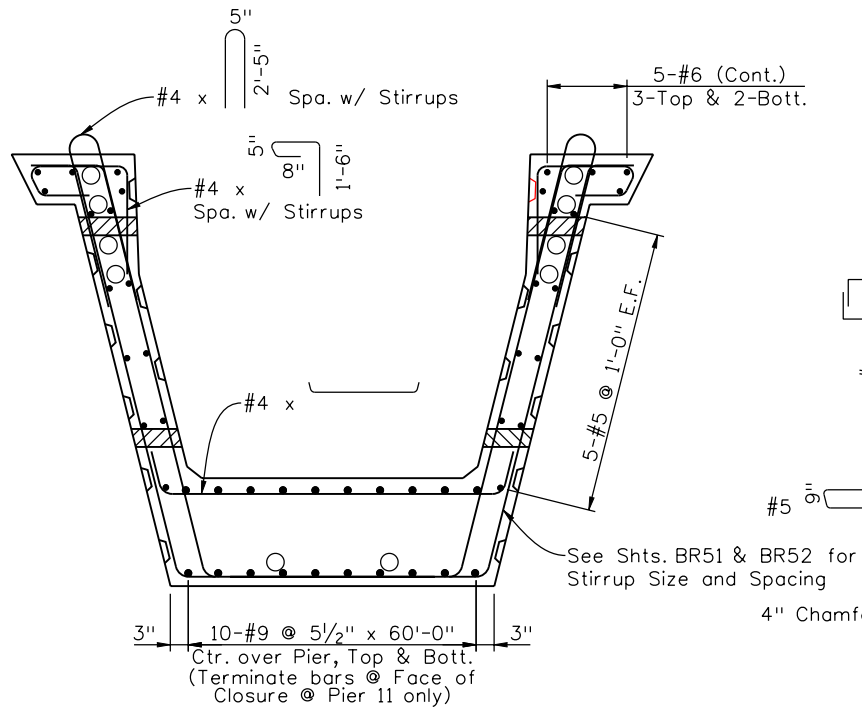


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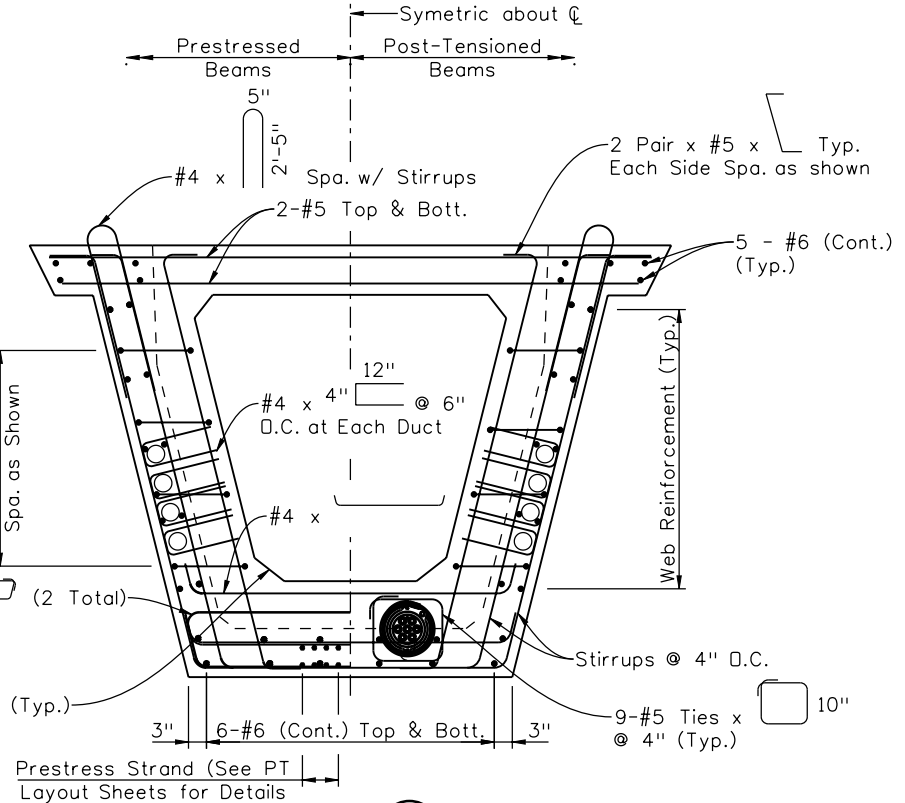
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DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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11/10	PRS	11/10	TF	11/10	TF
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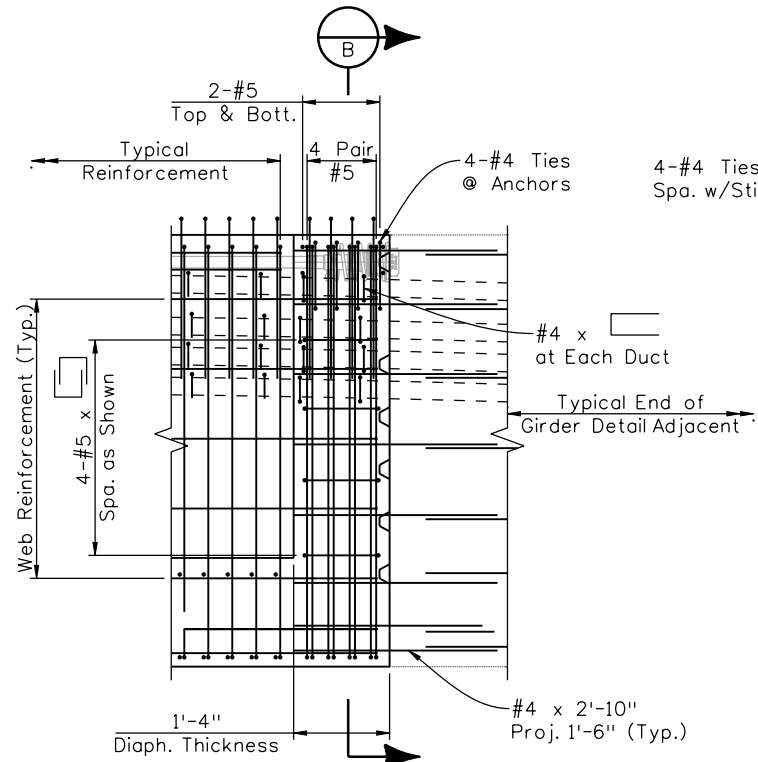
TYPICAL GIRDER REINFORCEMENT



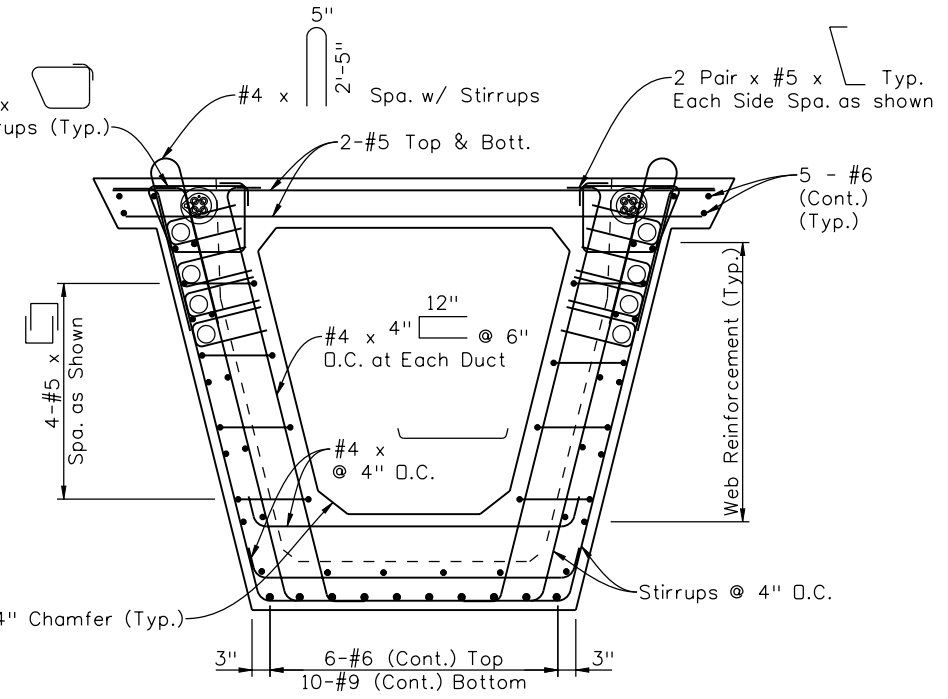
TYPICAL PIER GIRDER REINFORCEMENT



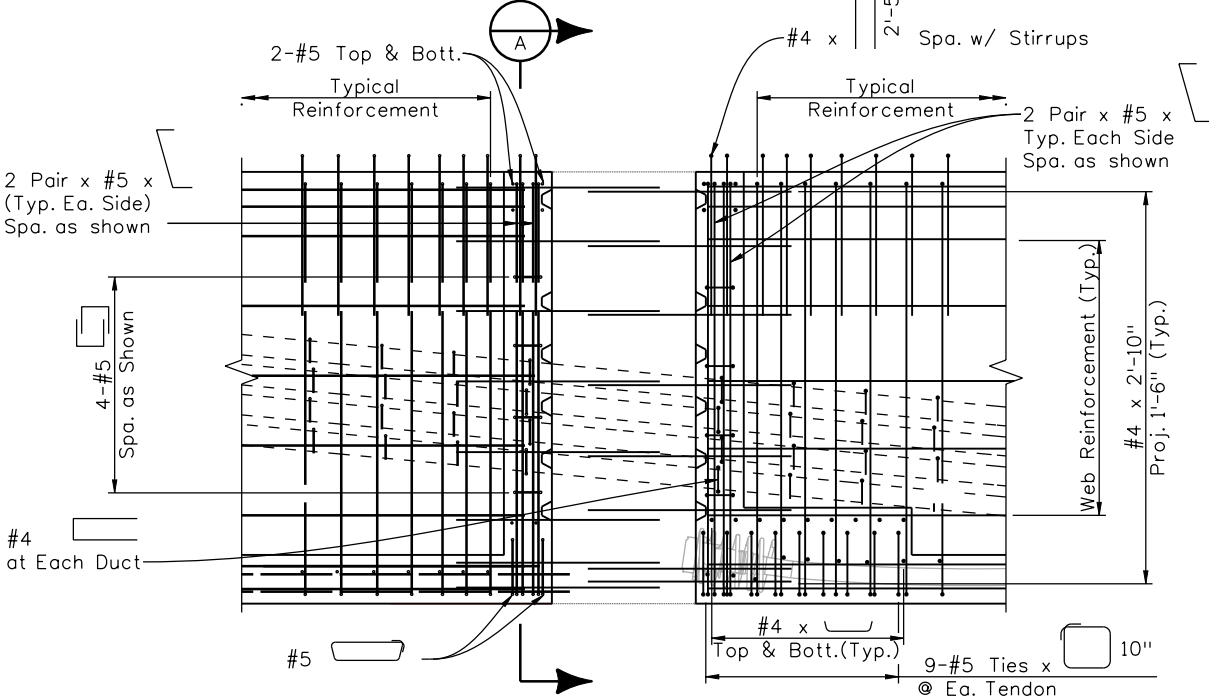
SECTION A



SPLICE 16 ELEVATION @ TOP PT



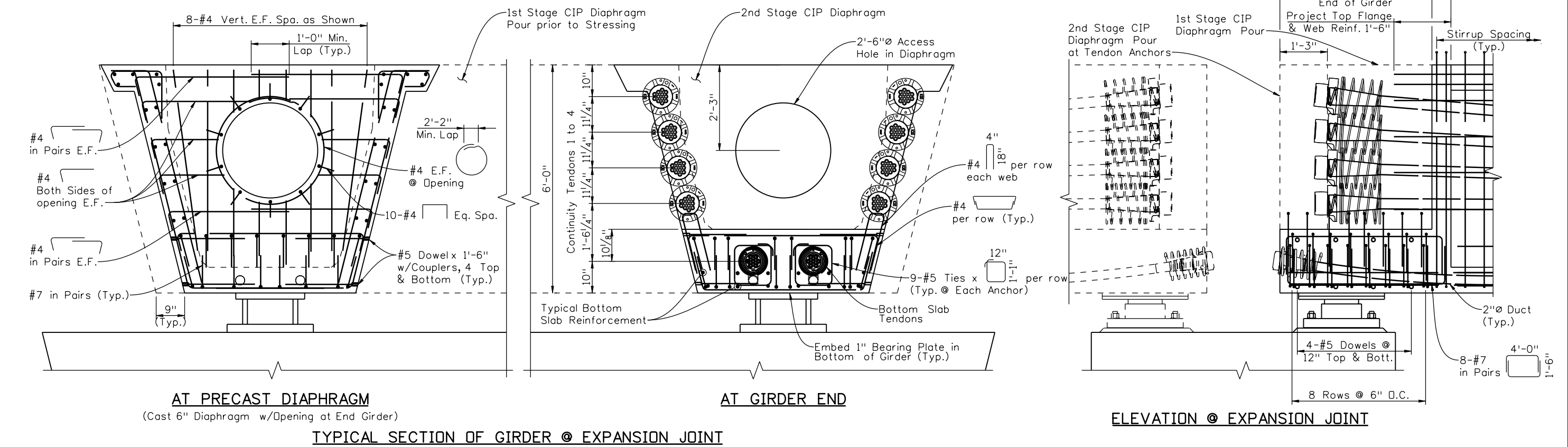
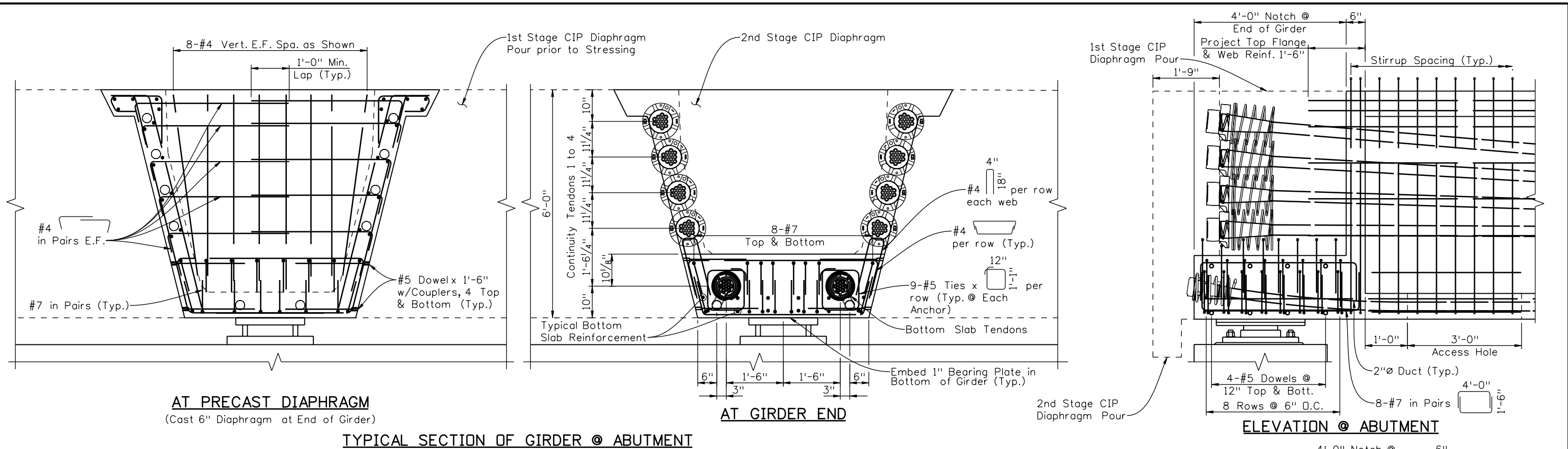
SECTION B



PRESTRESSED BEAMS POST-TENSIONED BEAMS END OF PRECAST GIRDERS @ TYPICAL SPLICE

Print Date: 12/22/2010	Sheet Revisions		Colorado Department of Transportation		As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER		Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_GirderDet04.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	GIRDER DETAILS (4 OF 5)		BR 0252-407
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR		Revised:	Designer: G. Reese	Structure Numbers	F-16-XR
Unit Information	1/3/11	Misc. Revisions	GAR		Void:	Detailer: K. Soellner	Subset Sheets:	BR54 of 107
Unit Leader Initials		Region 6		RLB	Sheet Subset: Bridge	Sheet Number		212 B





Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	GAR	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010	File Name: 16311BRDG_PH2_F-16-XR_GirderDet05.dgn	Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials		

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

Colorado Department of Transportation

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Region 6 RLB

As Constructed	No Revisions:	Revised:	Void:
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I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER GIRDER DETAILS (5 OF 5)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subset Sheets: BR55 of 107			

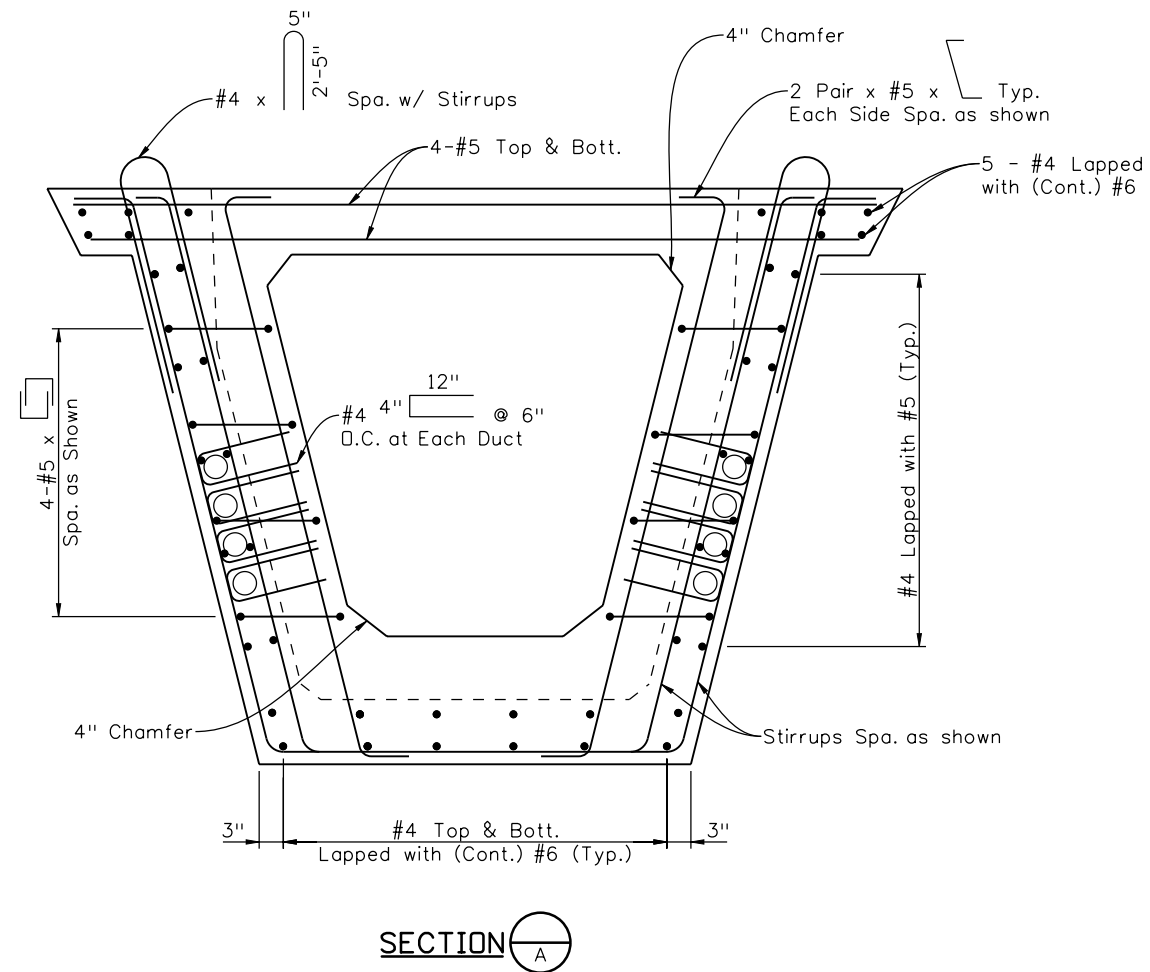
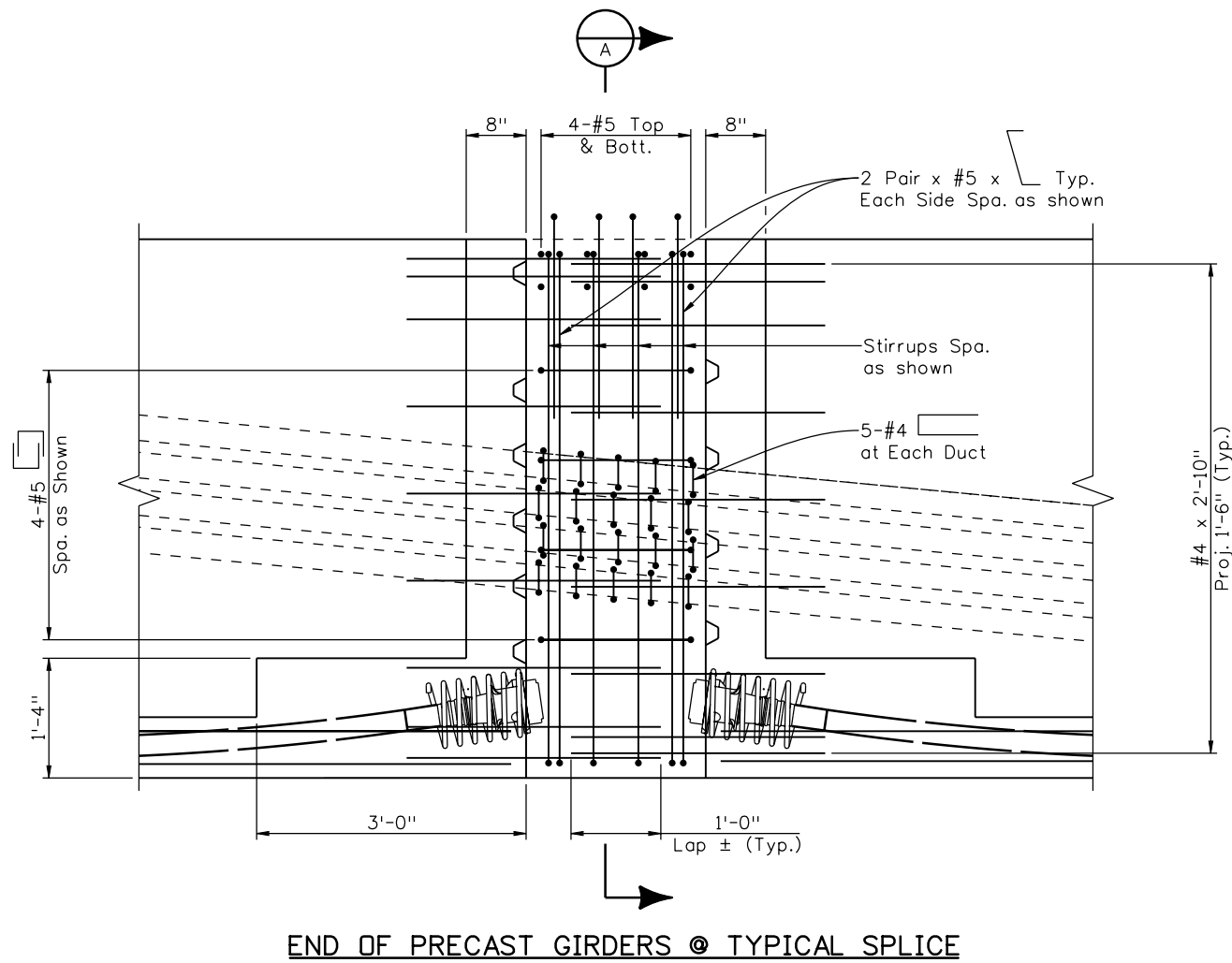
Project No./Code	BR 0252-407
	17783
Sheet Number	213 B



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11/22/2010 CDOT-PDFDraftQuality_XM.plt

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By GAR	08/10	K/S	09/10	K/S	10/10
Checked By PRS	11/10	TF	11/10	TF	11/10



Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_ClosureDet01.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials



Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	

Colorado Department of Transportation

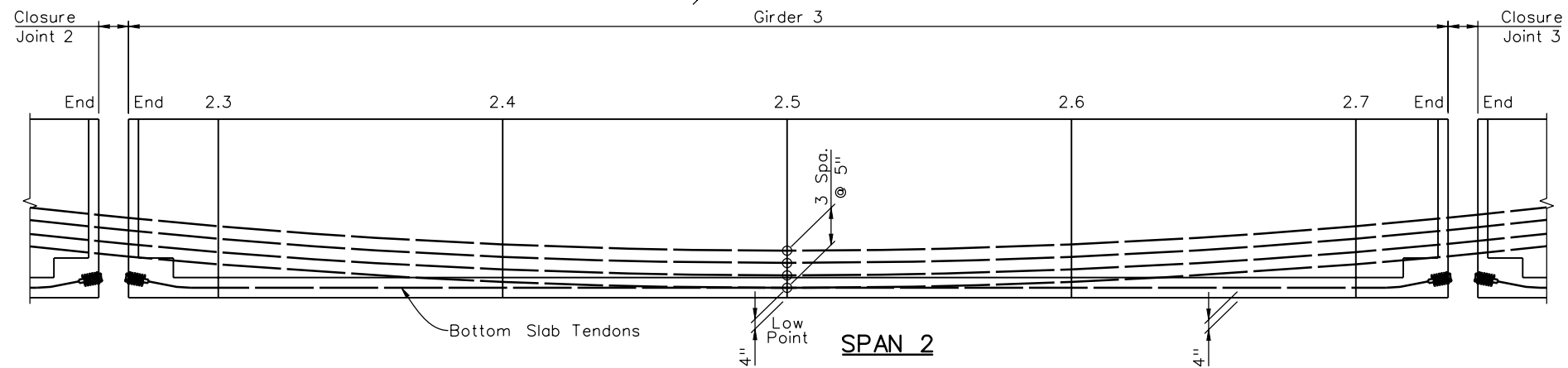
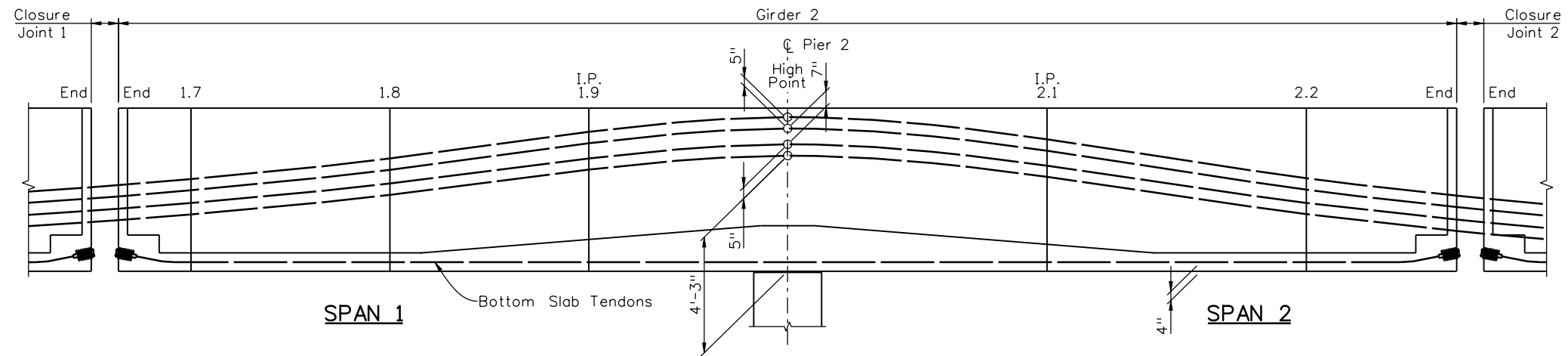
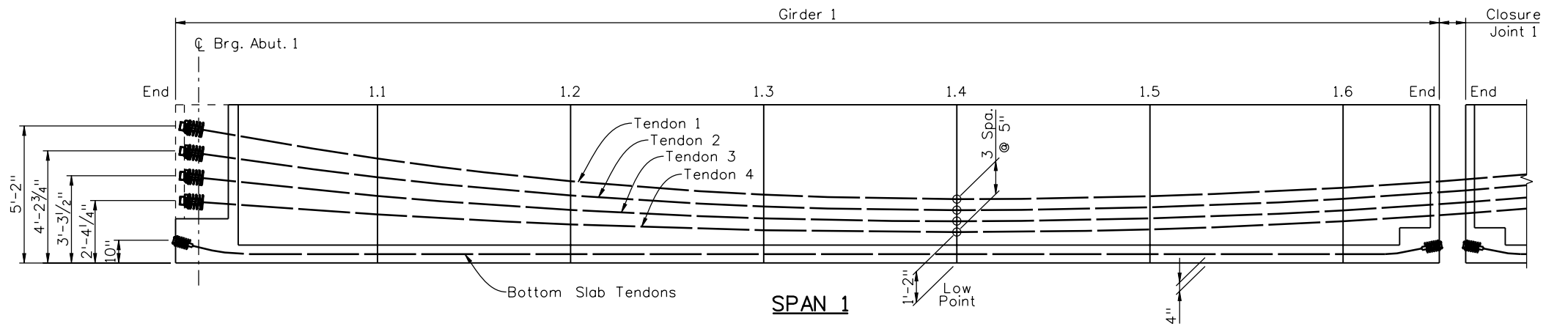
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER CLOSURE POUR DETAILS			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subst Sheets:		BR56 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 214 A



TENDON INFORMATION

TENDON	END	GIRDER 1								GIRDER 2							GIRDER 3						
		1.1L	1.2L	1.3L	1.4L	1.5L	1.6L	END	END	1.7L	1.8L	1.9L	PIER 2	2.1L	2.2L	END	END	2.3L	2.4L	2.5L	2.6L	2.7L	END
1	62.00	48.07	37.55	31.20	29.00	30.24	34.11	37.12	38.03	40.59	49.71	61.44	68.00	58.20	41.05	33.34	32.13	28.80	21.45	19.00	21.45	28.80	32.24
2	50.75	39.46	30.93	25.78	24.00	25.24	29.11	32.12	33.03	35.59	44.71	56.44	63.00	53.20	36.05	28.34	27.13	23.80	16.45	14.00	16.45	23.80	27.24
3	39.50	30.85	24.31	20.36	19.00	20.18	23.84	26.70	27.56	30.00	38.64	49.78	56.00	46.60	30.15	22.76	21.59	18.40	11.35	9.00	11.35	18.40	21.70
4	28.25	22.24	17.69	14.95	14.00	15.18	18.84	21.70	22.56	25.00	33.64	44.78	51.00	41.60	25.15	17.76	16.59	13.40	6.35	4.00	6.35	13.40	16.70

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 11/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PTLay01a.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

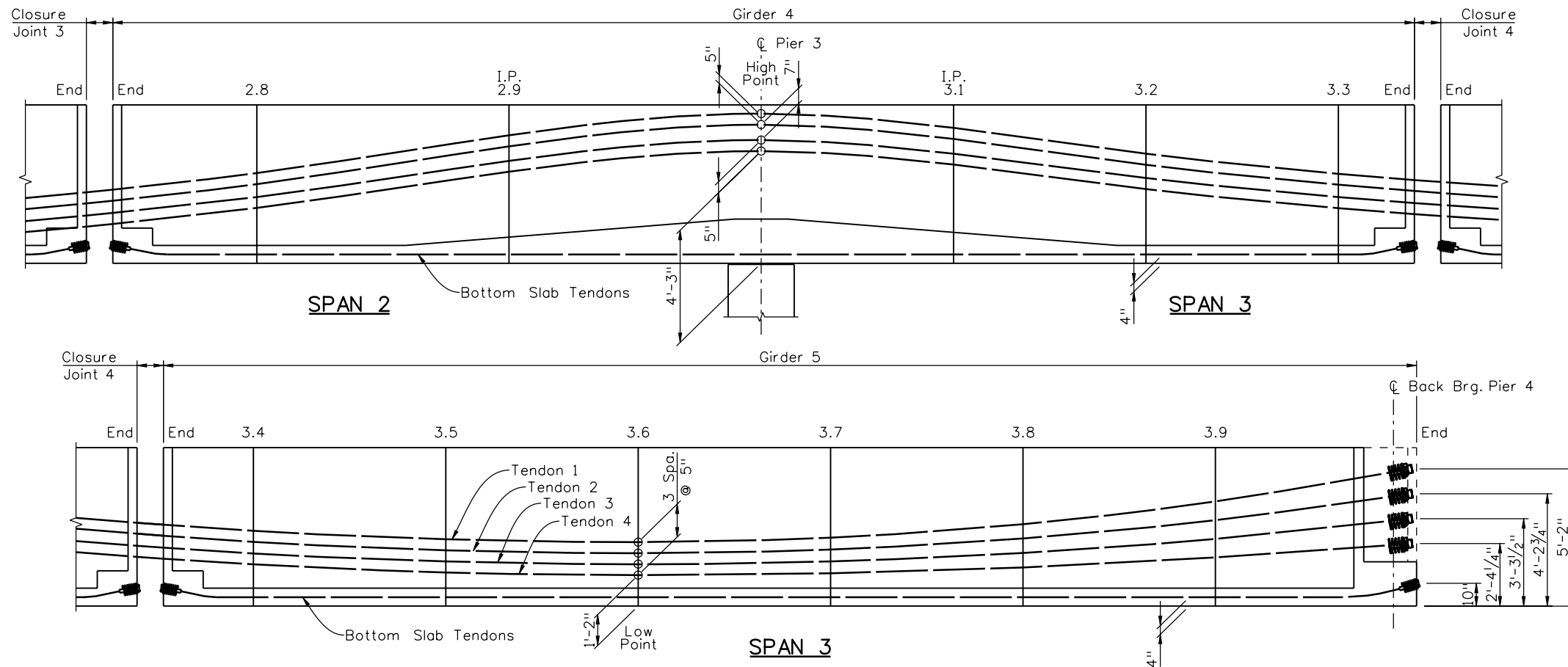
I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 UNIT 1 PT LAYOUT (1 OF 2)

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR57 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 215 A

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TENDON INFORMATION

GIRDER 4									GIRDER 5							
TENDON	END	2.8L	2.9L	PIER 3	3.1L	3.2L	3.3L	END	END	3.4L	3.5L	3.6L	3.7L	3.8L	3.9L	END
1	33.46	41.05	58.20	68.00	61.39	49.62	40.50	37.73	36.82	34.02	30.19	29.00	31.32	37.83	48.53	62.00
2	28.46	36.05	53.20	63.00	56.39	44.62	35.50	32.73	31.82	29.02	25.19	24.00	25.88	31.16	39.83	50.75
3	22.87	30.15	46.60	56.00	49.73	38.56	29.91	27.28	26.42	23.76	20.13	19.00	20.44	24.48	31.13	39.50
4	17.87	25.15	41.60	51.00	44.73	33.56	24.91	22.28	21.42	18.76	15.13	14.00	15.00	17.81	22.44	28.25

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

TENDON DATA

TENDON NUMBER	1	2	3	4
# OF 0.6" DIA. STRANDS	24	24	24	24

BOTTOM SLAB TENDON DATA

GIRDER NUMBER	1	2	3	4	5
# OF 0.6" DIA. STRANDS	12	12	12	12	12
TYPE OF TENDON	6x0.6"	6x0.6"	6x0.6"	6x0.6"	6x0.6"

DESIGN:

Design is based on K=0.0002 and Meu=0.25. P(jack) at the jacking ends includes friction, anchor set of 1/4" at the jacking ends, elastic shortening, and provisions for an additional long term loss in stress per AASHTO guidelines.

All tendons shown assume 0.6"Ø low relaxation strands.

- P(jack) = 44 kips per strand in bottom tendons at jacking ends
- = 264 kips per path (duct) for 7 x 0.6"Ø tendons at jacking ends
- = 527 kips per path (duct) for 12 x 0.6"Ø tendons at jacking ends
- f's = 270 ksi
- f'c = 8500 psigirder concrete at 28 days field compressive strength (class PS)
- = 5800 psicast-in-place girder concrete at 28 days field compressive strength (class S40 or approved alternate)
- f'ci = 4500 psin closure pours prior to stressing tendons 1 thru 4

STRESSING SEQUENCE - SPANS 1 TO 3:

1. Stress and grout bottom slab tendons in girders in the casting yard prior to shipping to the bridge site.
2. Erect girder segments at bridge site.
3. Cast diaphragms, closures and grout precast panels over girders.
4. Stress tendons 1 thru 4 from both ends at Abutment 1 and Pier 4. Stress tendons in both webs simultaneously, or stress in increments of 50% of the final force, alternating each side of the girder.

NOTES:

Reinforcement that interferes with the prestressing tendon alignment shall be adjusted as approved by the engineer.

All dimensions are to the centerline of the duct. Deviations from the duct arrangement shown will not be approved. Small changes in the force per duct and the path of each duct must be approved by the engineer. Alternative strand sizes are acceptable.

Use low-relaxation strands meeting the requirements of ASTM A416 Grade 270. The contractor shall submit elongation calculations based on friction, wobble and anchor set.

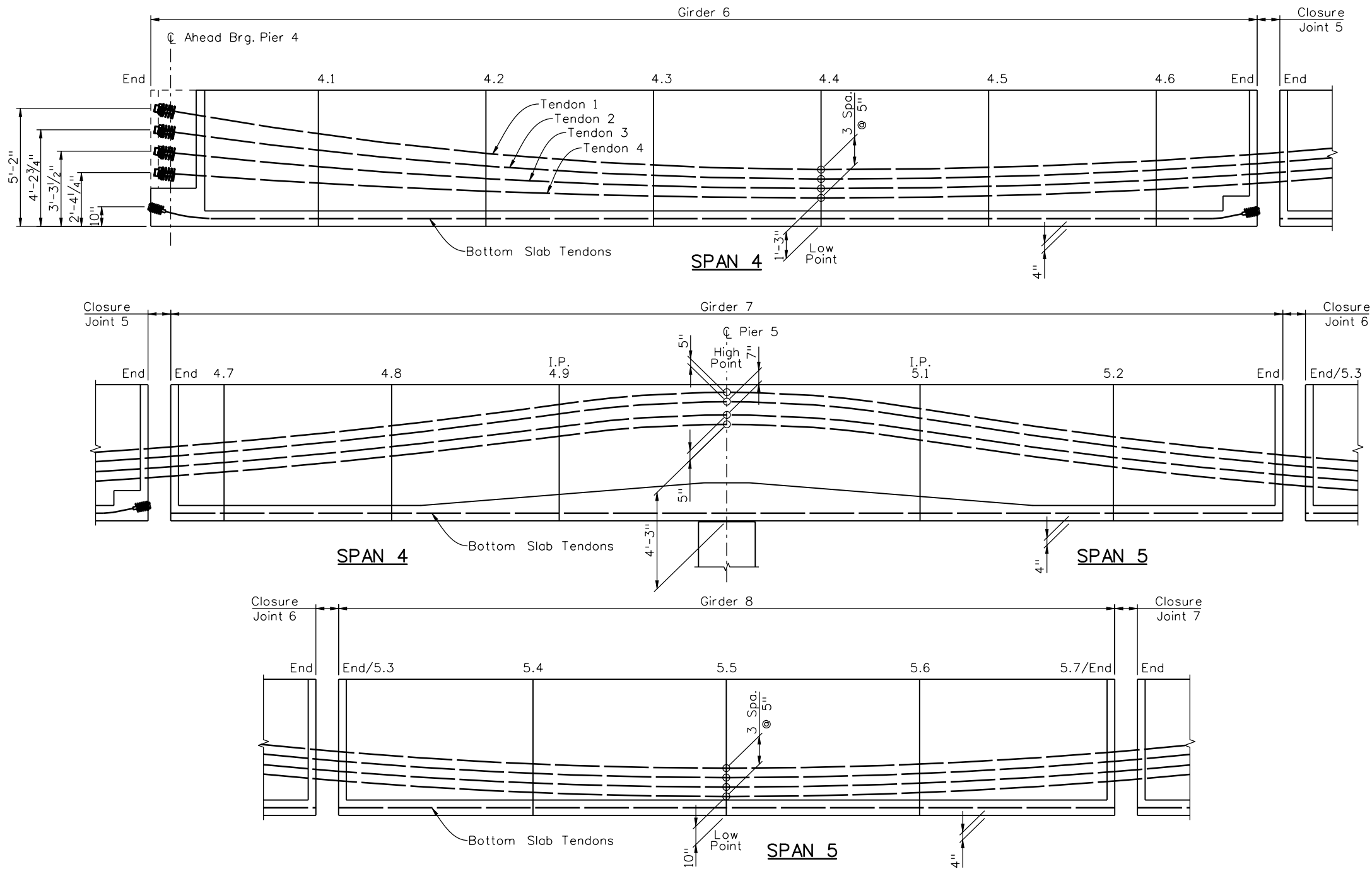
The contractor shall survey the bridge prior to casting to verify that the minimum thickness of allelements of the deck slab will be maintained or exceeded.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	DESIGNED BY	09/10	QUANTITIES BY	10/10
CHECKED BY	11/10	CHECKED BY	11/10	CHECKED BY	11/10

Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER UNIT 1 PT LAYOUT (2 OF 2)		Project No./Code	
File Name: 16311BRDG_PH2_F-16-XR_PTLay01b.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB		No Revisions: Revised: Void:		Designer: G. Reese Detailer: K. Soellner Sheet Subset: Bridge		BR 0252-407 17783 Sheet Number 216 B	
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR								
Unit Information	1/3/11	Misc. Revisions	GAR								
Unit Leader Initials								Structure Numbers		Subset Sheets: BR58 of 107	



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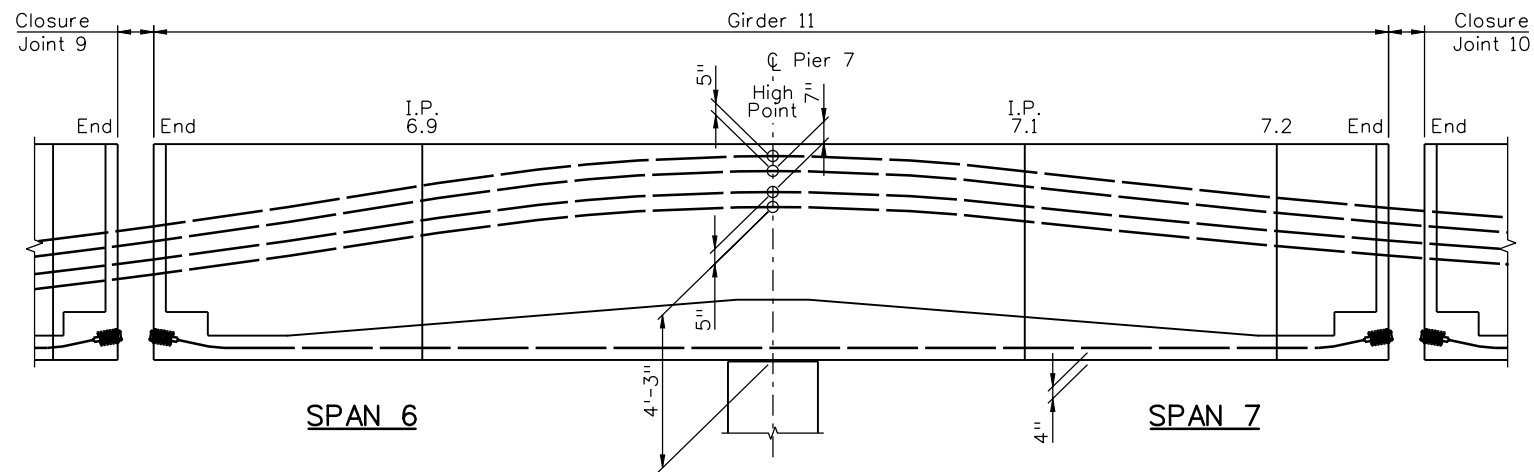
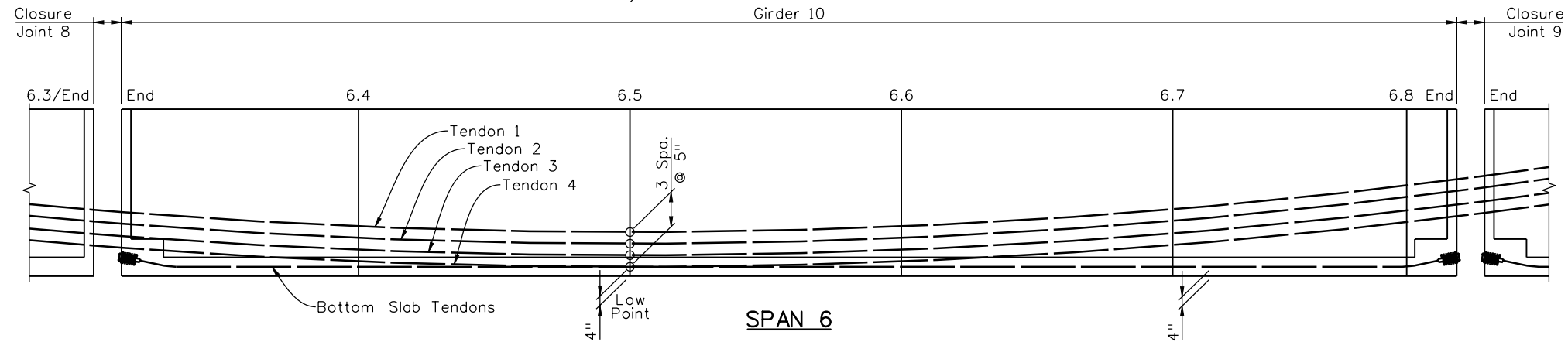
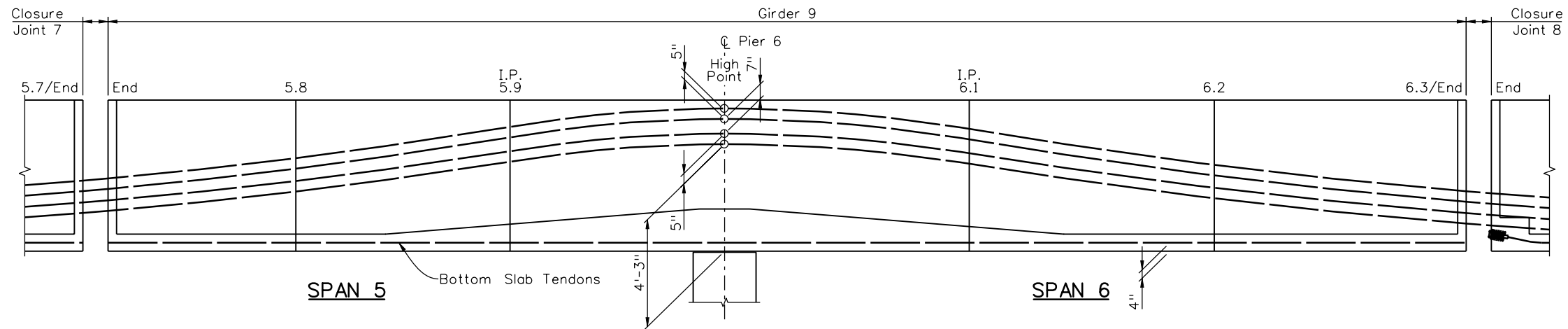
TENDON INFORMATION

TENDON	GIRDER 6								GIRDER 7								GIRDER 8				
	END	4.1L	4.2L	4.3L	4.4L	4.5L	4.6L	END	END	4.7L	4.8L	4.9L	PIER 5	5.1L	5.2L	END	END/5.3L	5.4L	5.5L	5.6L	5.7L/END
1	62.00	48.93	38.55	32.24	30.00	31.16	34.90	38.13	39.03	41.21	50.09	61.56	68.00	59.40	44.35	34.71	33.66	27.15	25.00	27.15	33.65
2	50.75	40.23	31.88	26.81	25.00	26.16	29.90	33.13	34.03	36.21	45.09	56.56	63.00	54.40	39.35	29.71	28.66	22.15	20.00	22.15	28.65
3	39.50	31.53	25.21	21.37	20.00	21.10	24.64	27.71	28.55	30.62	39.04	49.90	56.00	47.80	33.45	24.25	23.26	17.05	15.00	17.05	23.25
4	28.25	22.84	18.54	15.93	15.00	16.10	19.64	22.71	23.55	25.62	34.04	44.90	51.00	42.80	28.45	19.25	18.26	12.05	10.00	12.05	18.25

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010		Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER UNIT 2 PT LAYOUT (1 OF 3) Designer: G. Reese Detailer: K. Soellner Sheet Subset: Bridge				Project No./Code BR 0252-407 17783 Sheet Number 217 B	
File Name: 16311BRDG_PH2_F-16-XR_PTLay02a.dgn		Date:	Comments	Init.								
Horiz. Scale: 1:1 Vert. Scale: As Noted		12/3/10	Misc. Revisions	GAR								
Unit Information	Unit Leader Initials	1/3/11	Misc. Revisions	GAR	Region 6 RLB	Structure Numbers F-16-XR Subset Sheets: BR59 of 107	Sheet Number 217 B					



TENDON INFORMATION

TENDON	GIRDER 9								GIRDER 10						GIRDER 11					
	END	5.8L	5.9L	PIER 6	6.1L	6.2L	6.3L/END	END	6.4L	6.5L	6.6L	6.7L	6.8L	END	END	6.9L	PIER 7	7.1L	7.2L	END
1	34.69	44.35	59.40	68.00	58.20	41.05	28.55	27.58	21.45	19.00	21.45	28.80	41.05	43.03	44.63	58.20	68.00	62.91	53.86	50.58
2	29.69	39.35	54.40	63.00	53.20	36.05	23.55	22.58	16.45	14.00	16.45	23.80	36.05	38.03	39.63	53.20	63.00	57.91	48.86	45.58
3	24.24	33.45	47.80	56.00	46.60	30.15	18.16	17.23	11.35	9.00	11.35	18.40	30.15	32.05	33.58	46.60	56.00	51.25	42.80	39.74
4	19.24	28.45	42.80	51.00	41.60	25.15	13.16	12.23	6.35	4.00	6.35	13.40	25.15	27.05	28.58	41.60	51.00	46.25	37.80	34.74

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PTLay02b.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

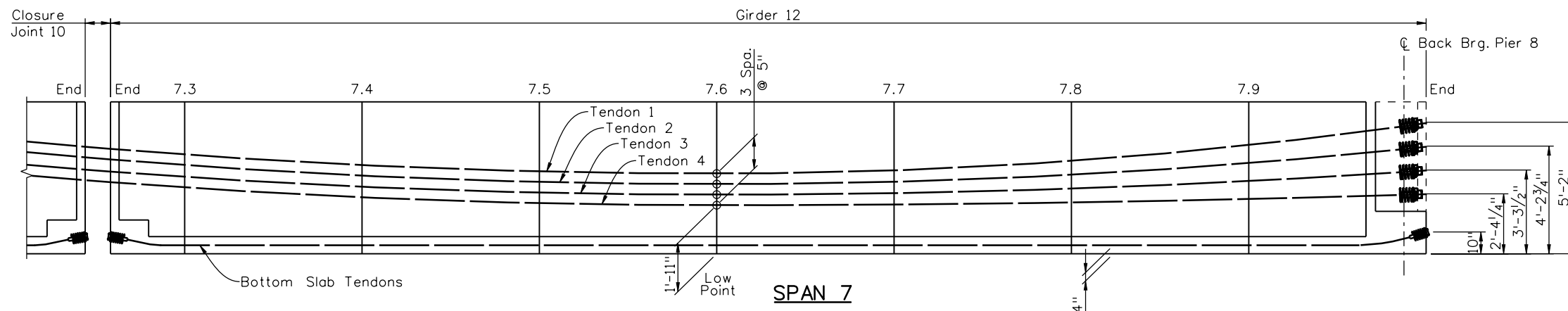
I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 UNIT 2 PT LAYOUT (2 OF 3)

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR60 of 107

Project No./Code
 BR 0252-407
 17783
 Sheet Number 218 B



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TENDON INFORMATION

GIRDER 12									
TENDON	END	7.3L	7.4L	7.5L	7.6L	7.7L	7.8L	7.9L	END
1	49.59	46.84	41.86	38.91	38.00	39.69	44.44	52.24	62.00
2	44.59	41.84	36.86	33.91	33.00	34.25	37.76	43.53	50.75
3	38.82	36.25	31.60	28.85	28.00	28.81	31.08	34.82	39.50
4	33.82	31.25	26.60	23.85	23.00	23.37	24.41	26.11	28.25

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

TENDON DATA

TENDON NUMBER	1	2	3	4
# OF 0.6" DIA. STRANDS	24	24	24	24

BOTTOM SLAB TENDON DATA

GIRDER NUMBER	6	7	8	9	10	11	12
# OF 0.6" DIA. STRANDS	12	12	12	12	18	8	12
TYPE OF TENDON	6x0.6"	Prestress	Prestress	Prestress	9x0.6"	4x0.6"	6x0.6"

DESIGN:

Design is based on $K=0.0002$ and $M_{eu}=0.25$. $P(jack)$ at the jacking ends includes friction, anchor set of $1/4"$ at the jacking ends, elastic shortening, and provisions for an additional long term loss in stress per AASHTO guidelines.

All tendons shown assume 0.6"Ø low relaxation strands.

- $P(jack)$ = 44 kips per strand in bottom tendons at jacking ends
- = 264 kips per path (duct) for 7 x 0.6"Ø tendons at jacking ends
- = 527 kips per path (duct) for 12 x 0.6"Ø tendons at jacking ends
- $f's$ = 270 ksi
- $f'c$ = 8500 psi girder concrete at 28 days field compressive strength (class PS)
- = 5800 psi cast-in-place girder concrete at 28 days field compressive strength (class S40 or approved alternate)
- $f'ci$ = 4500 psi in closure pours prior to stressing tendons 1 thru 4

STRESSING SEQUENCE - SPANS 4 TO 7:

1. Stress and grout bottom slab tendons in girders in the casting yard prior to shipping to the bridge site.
2. Erect girder segments at bridge site.
3. Cast diaphragms, closures and grout precast panels over girders.
4. Stress tendons 1 thru 4 from both ends at Pier 4 and Pier 8. Stress tendons in both webs simultaneously, or stress in increments of 50% of the final force, alternating each side of the girder.

NOTES:

Reinforcement that interferes with the prestressing tendon alignment shall be adjusted as approved by the engineer.

All dimensions are to the centerline of the duct. Deviations from the duct arrangement shown will not be approved. Small changes in the force per duct and the path of each duct must be approved by the engineer. Alternative strand sizes are acceptable.

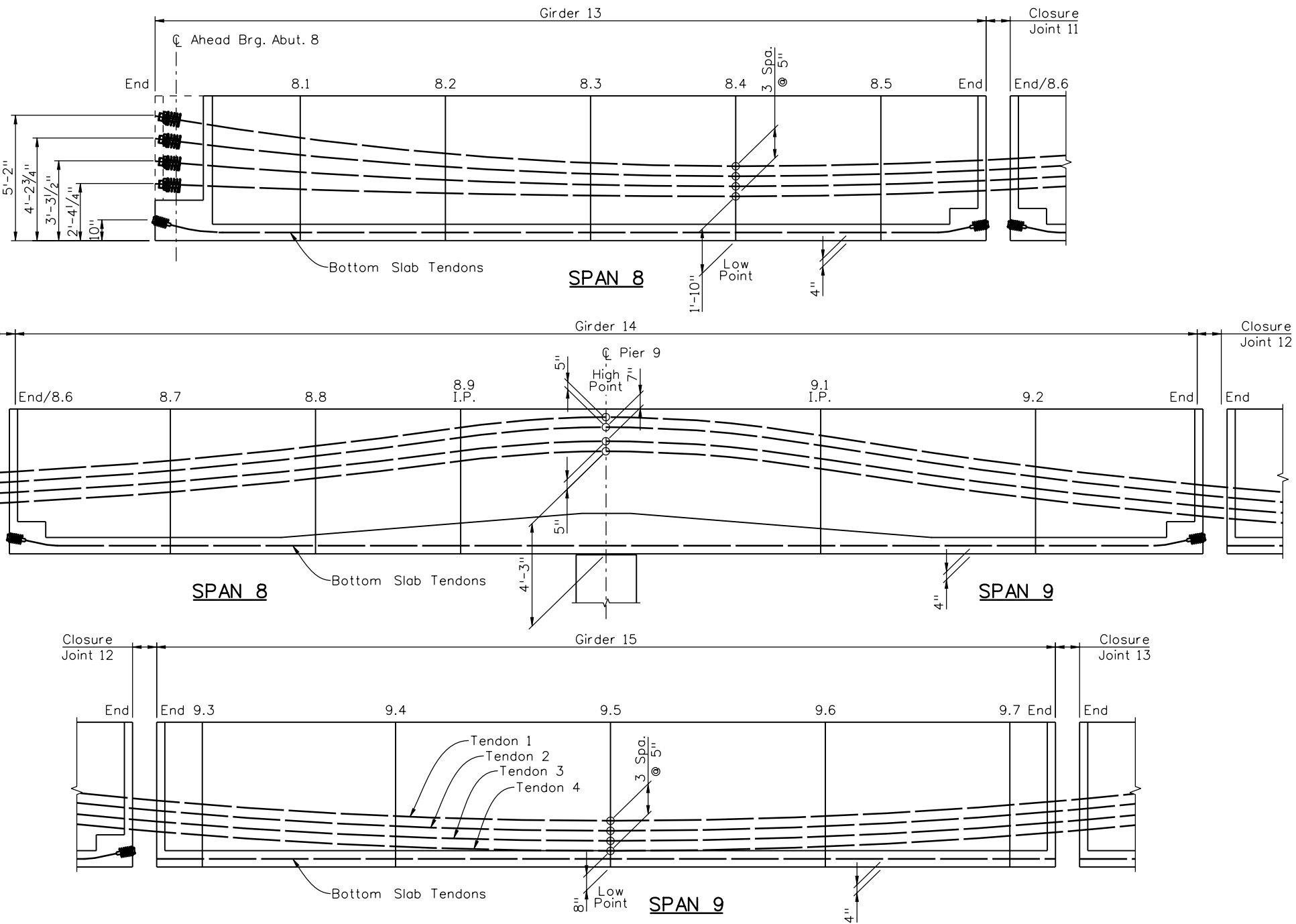
Use low-relaxation strands meeting the requirements of ASTM A416 Grade 270. The contractor shall submit elongation calculations based on friction, wobble and anchor set.

The contractor shall survey the bridge prior to casting to verify that the minimum thickness of all elements of the deck slab will be maintained or exceeded.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	KJS	09/10	KJS	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER UNIT 2 PT LAYOUT (3 OF 3)		Project No./Code BR 0252-407
File Name: 16311BRDG_PH2_F-16-XR_PTLay02c.dgn	Date:	Comments	Init.					
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	Designer: G. Reese		Structure Numbers
Unit Information	1/3/11	Misc. Revisions	GAR		Revised:	Detailer: K. Soellner		
10822 Teller Drive Suite 330 Littleton, CO 80127				Region 6	Void:	Sheet Subset: Bridge		Subset Sheets: BR61 of 107
				RLB			Sheet Number 219 B	

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 12/22/2010 C:\DOT-PDFDraftQuality_XM.plt ctf



TENDON INFORMATION

GIRDER 13								GIRDER 14								GIRDER 15						
TENDON	END	8.1L	8.2L	8.3L	8.4L	8.5L	END	END/8.6L	8.7L	8.8L	8.9L	PIER 9	9.1L	9.2L	END	END	9.3L	9.4L	9.5L	9.6L	9.7L	END
1	62.00	51.96	43.78	38.80	37.00	37.93	40.01	40.63	46.11	53.36	62.73	68.00	59.00	43.25	34.08	32.99	32.00	25.25	23.00	25.25	32.00	33.25
2	50.75	43.22	37.09	33.35	32.00	32.93	35.01	35.63	41.11	48.36	57.73	63.00	54.00	38.25	29.08	27.99	27.00	20.25	18.00	20.25	27.00	28.25
3	39.50	34.48	30.39	27.90	27.00	27.87	29.82	30.40	35.52	42.31	51.07	56.00	47.40	32.35	23.59	22.55	21.60	15.15	13.00	15.15	21.60	22.80
4	28.25	25.74	23.70	22.45	22.00	22.87	24.82	25.40	30.52	37.31	46.07	51.00	42.40	27.35	18.59	17.55	16.60	10.15	8.00	10.15	16.60	17.80

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PTLay03a.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

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 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
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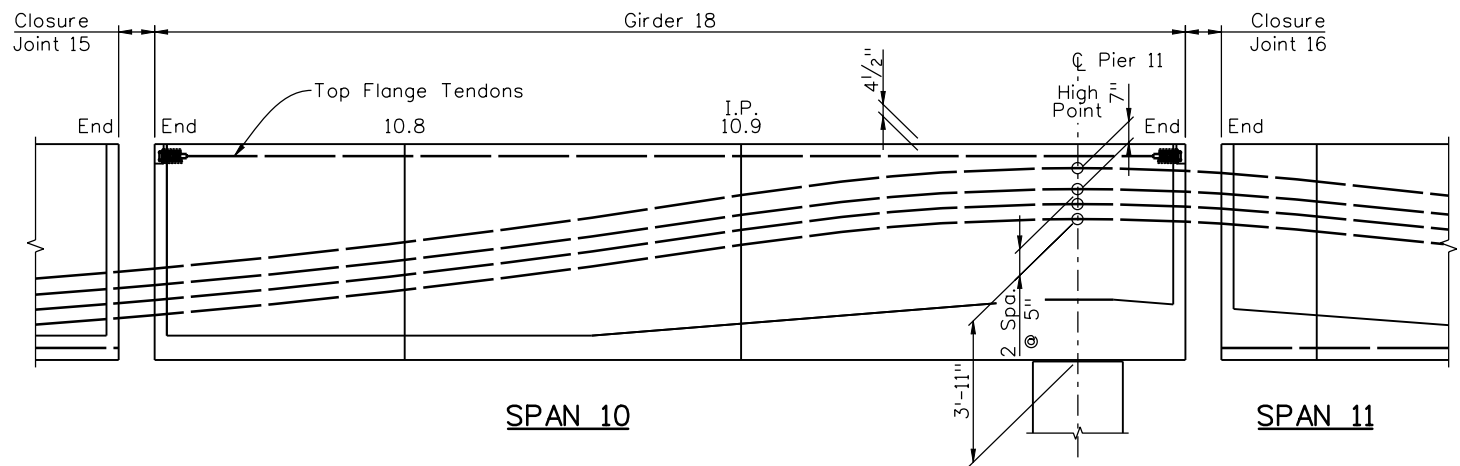
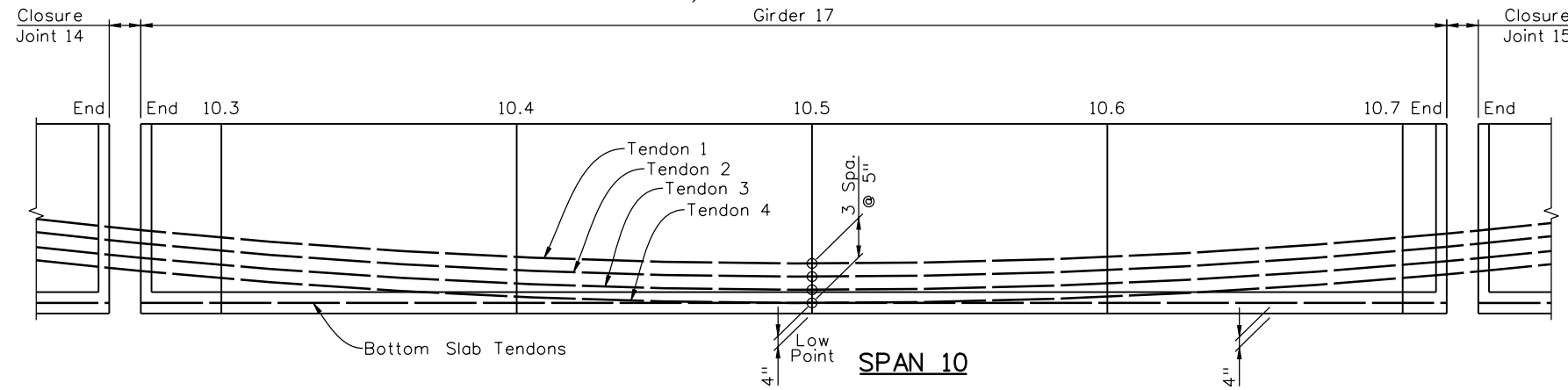
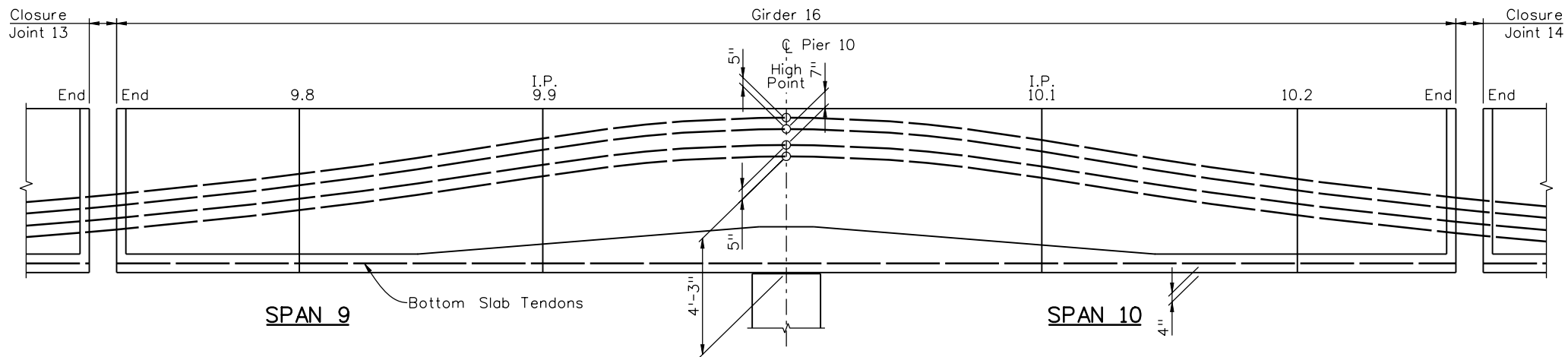
I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 UNIT 3 PT LAYOUT (1 OF 3)

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR62 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 220 B



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TENDON INFORMATION

GIRDER 16								GIRDER 17							GIRDER 18				
TENDON	END	9.8L	9.9L	PIER 10	10.1L	10.2L	END	END	10.3L	10.4L	10.5L	10.6L	10.7L	END	END	10.8L	10.9L	PIER 11	END
1	34.36	43.25	59.00	68.00	58.20	41.05	32.87	31.65	28.80	21.45	19.00	21.25	28.00	29.39	30.45	39.25	55.00	64.00	63.07
2	29.36	38.25	54.00	63.00	53.20	36.05	27.87	26.65	23.80	16.45	14.00	16.15	22.60	23.93	24.94	33.35	48.40	57.00	56.14
3	23.86	32.35	47.40	56.00	46.60	30.15	22.31	21.14	18.40	11.35	9.00	11.15	17.60	18.93	19.94	28.35	43.40	52.00	51.14
4	18.86	27.35	42.40	51.00	41.60	25.15	17.31	16.14	13.40	6.35	4.00	6.15	12.60	13.93	14.94	23.35	38.40	47.00	46.14

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	K/S	09/10	K/S	10/10	K/S
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_PTLay03b.dgn
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 Unit Information Unit Leader Initials

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Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

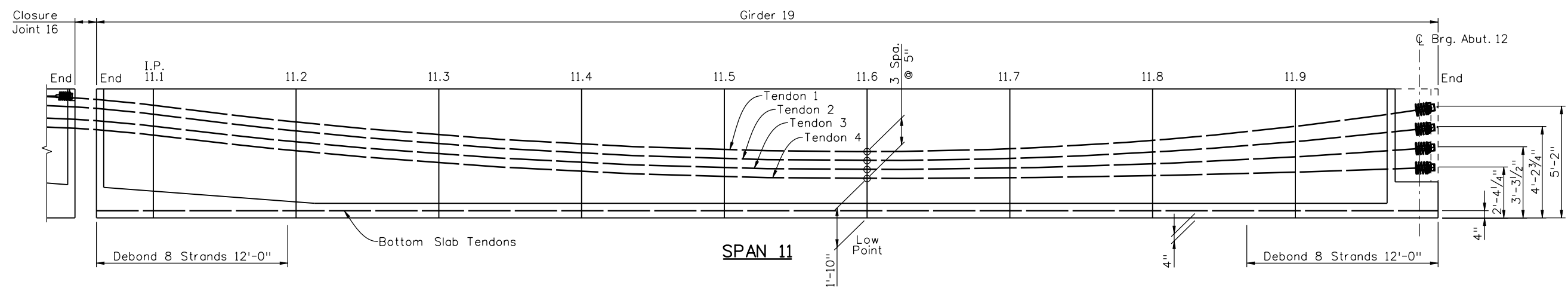
I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 UNIT 3 PT LAYOUT (2 OF 3)

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR63 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 221 B



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TENDON INFORMATION

GIRDER 19											
TENDON	END	11.1L	11.2L	11.3L	11.4L	11.5L	11.6L	11.7L	11.8L	11.9L	END
1	62.36	59.45	51.33	45.02	40.53	37.86	37.00	38.67	43.50	51.49	62.00
2	55.48	52.79	45.27	39.42	35.27	32.79	32.00	33.26	36.88	42.87	50.75
3	50.48	47.79	40.27	34.42	30.27	27.79	27.00	27.84	30.25	34.25	39.50
4	45.48	42.79	35.27	29.42	25.27	22.79	22.00	22.42	23.63	25.62	28.25

* Dimensions, in inches, measured from bottom of girder to centerline of duct.
 ** Tenth points measured along centerline of girder on outside of curve.

TENDON DATA

TENDON NUMBER	1	2	3	4
# OF 0.6" DIA. STRANDS	24	24	24	24

BOTTOM SLAB TENDON DATA

GIRDER NUMBER	13	14	15	16	17	18	19
# OF 0.6" DIA. STRANDS	8	12	12	12	12	10***	18
TYPE OF TENDON	4x0.6"	6x0.6"	Prestress	Prestress	Prestress	5x0.6"	Prestress

*** Top Tendons

DESIGN:

Design is based on K=0.0002 and Meu=0.25. P(jack) at the jacking ends includes friction, anchor set of 1/4" at the jacking ends, elastic shortening, and provisions for an additional long term loss in stress per AASHTO guidelines.

- All tendons shown assume 0.6"Ø low relaxation strands.
- P(jack) = 44 kips per strand in bottom tendons at jacking ends
 - = 264 kips per path (duct) for 7 x 0.6"Ø tendons at jacking ends
 - = 527 kips per path (duct) for 12 x 0.6"Ø tendons at jacking ends
 - f's = 270 ksi
 - f'c = 8500 psi girder concrete at 28 days field compressive strength (class PS)
 - = 5800 psi cast-in-place girder concrete at 28 days field compressive strength (class S40 or approved alternate)
 - f'ci = 4500 psi in closure pours prior to stressing tendons 1 thru 4

STRESSING SEQUENCE - SPANS 8 TO 11:

1. Stress and grout bottom slab tendons in girders in the casting yard prior to shipping to the bridge site.
2. Erect girder segments at bridge site.
3. Cast diaphragms, closures and grout precast panels over girders.
4. Stress tendons 1 thru 4 from both ends at Pier 8 and Abutment 12. Stress tendons in both webs simultaneously, or stress in increments of 50% of the final force, alternating each side of the girder.

NOTES:

Reinforcement that interferes with the prestressing tendon alignment shall be adjusted as approved by the engineer.

All dimensions are to the centerline of the duct. Deviations from the duct arrangement shown will not be approved. Small changes in the force per duct and the path of each duct must be approved by the engineer. Alternative strand sizes are acceptable.

Use low-relaxation strands meeting the requirements of ASTM A416 Grade 270. The contractor shall submit elongation calculations based on friction, wobble and anchor set.

The contractor shall survey the bridge prior to casting to verify that the minimum thickness of all elements of the deck slab will be maintained or exceeded.

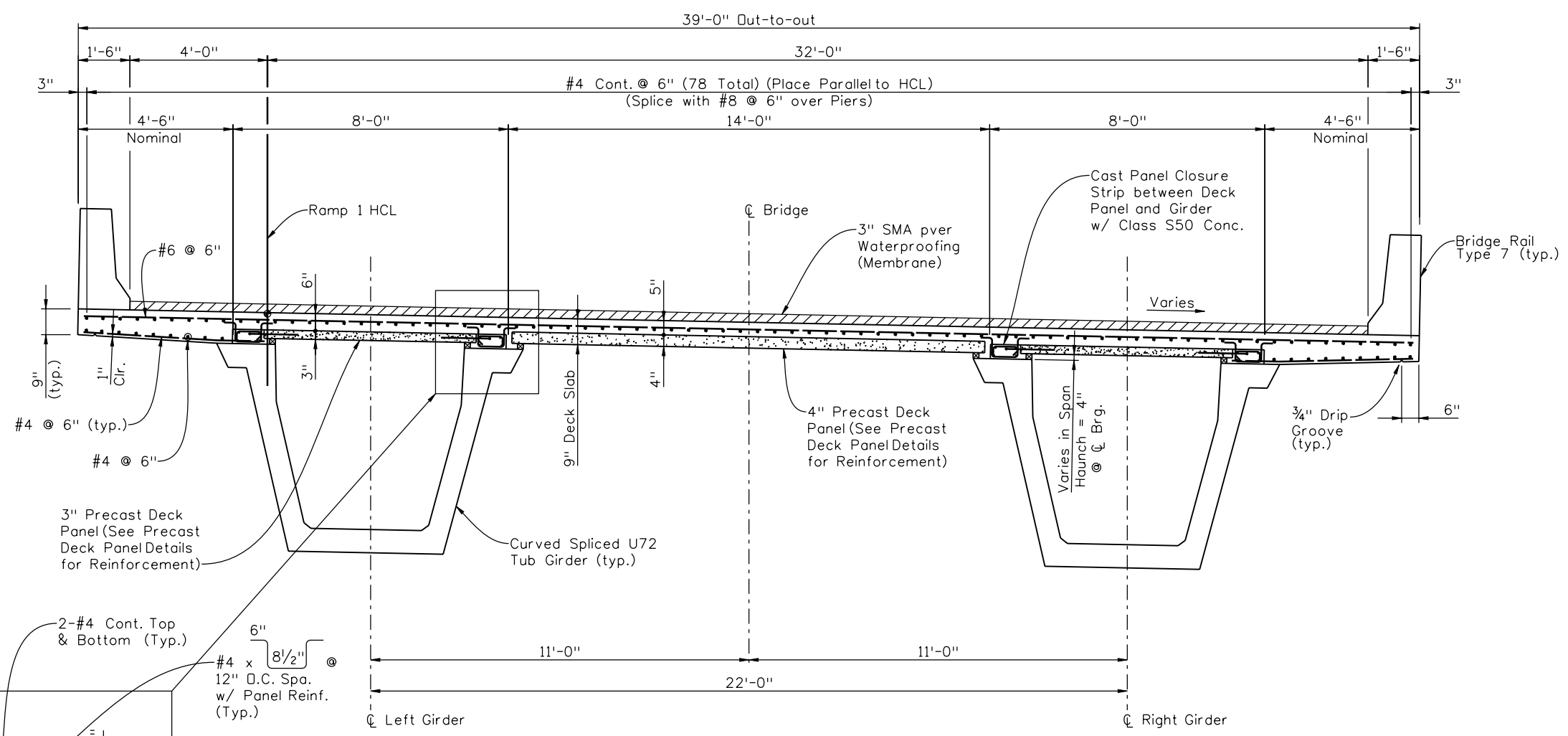
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CHECKED BY	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE			Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_PTLay03c.dgn	Date:	Comments	Init.			RAMP 1 FLYOVER			
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	UNIT 3 PT LAYOUT (3 OF 3)			17783
Unit Information	1/3/11	Misc. Revisions	GAR		Revised:	Designer: G. Reese	Structure Numbers	F-16-XR	
					Void:	Detailer: K. Soellner	Subset Sheets: BR64 of 107		
					Region 6		Sheet Subset: Bridge		

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Gar	08/10	KJS	09/10	KJS	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10



TYPICAL SECTION

* Clearance must be 2" min. above precast panels (Typ.)

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_Sup01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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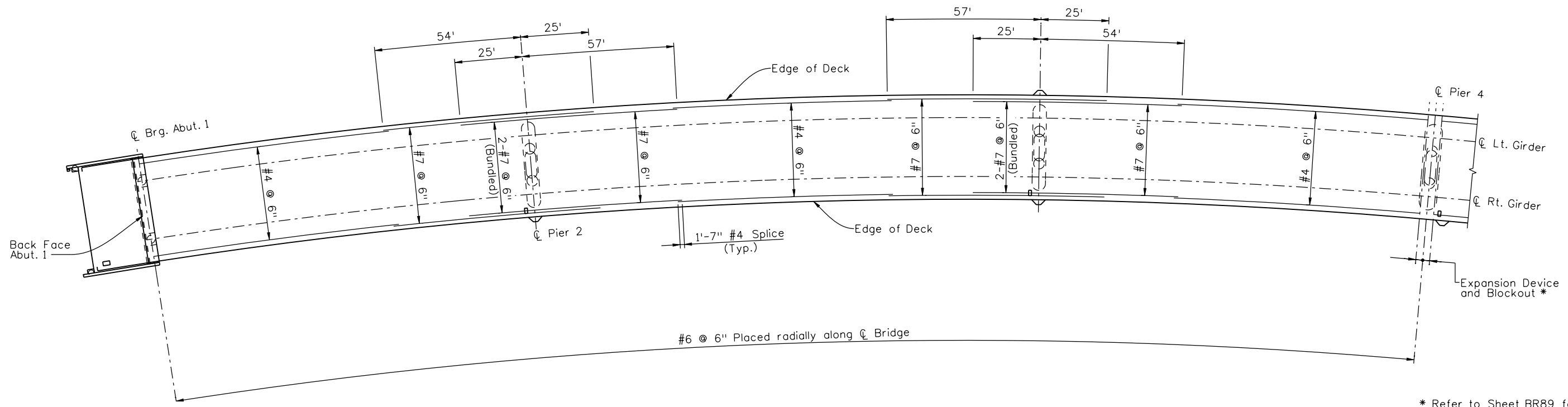
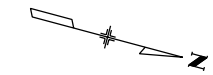
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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER SUPERSTRUCTURE DETAILS			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	R. Dillon	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR65 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 223 A



* Refer to Sheet BR89 for Reinforcing in Expansion Device Blockout

NOTES:

1. Bottom Steel not shown. Refer to Sheet Unit 1 Typical Section for additional Slab and Reinforcing Details.
2. Stagger Splices by a minimum of 4'-0".
3. See Construction Layout for Bridge Drain Locations. See Slab Details for additional Reinforcing at Bridge Drains.
4. Minimum Splice length for #7 bar is 2'-10".
5. Splices for bars shown greater than 60' long shall be placed more than 15' from Pier C.

Design		Detail		Quantities	
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Checked By	11/10	Checked By	11/10	Checked By	11/10

Print Date: 12/22/2010	
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Horiz. Scale: 1:40 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

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1/3/11	Misc. Revisions	GAR	(R-2)
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			(R-4)

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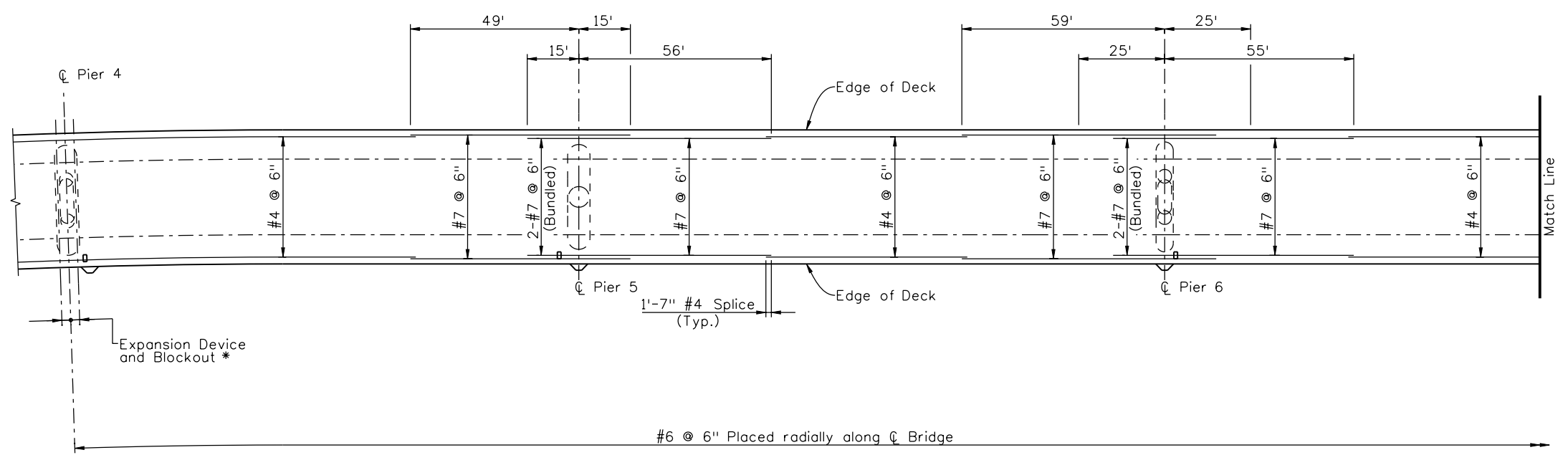
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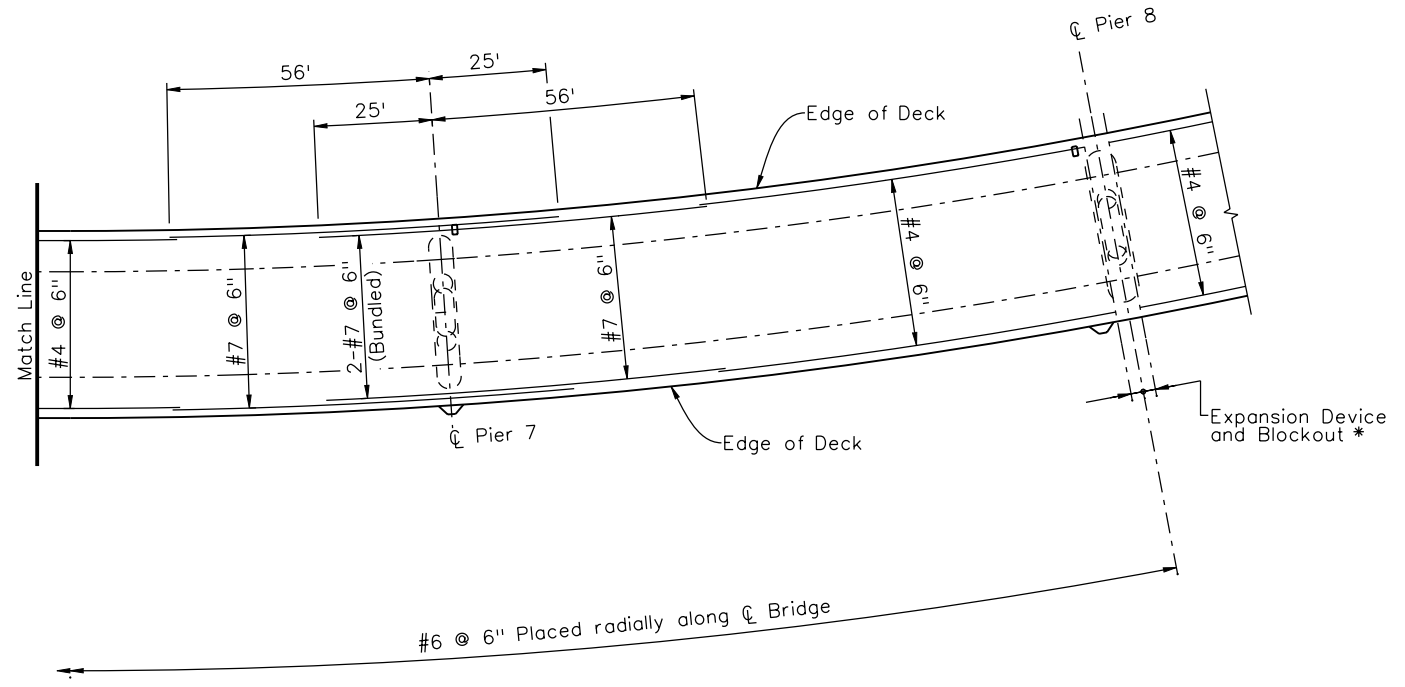
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	M. Eberly		
Sheet Subset:	Bridge	Subset Sheets:	BR66 of 107

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	17783
Sheet Number	224 B

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* Refer to Sheet B89 for Reinforcing in Expansion Device Blockout



NOTES:

1. Bottom Steel not shown. Refer to Sheet Unit 1 Typical Section for additional Slab and Reinforcing Details.
2. Stagger Splices by a minimum of 4'-0".
3. See Construction Layout for Bridge Drain Locations. See Slab Details for additional Reinforcing at Bridge Drains.
4. Minimum Splice length for #7 bar in 2'-10".
5. Splices for bars shown greater than 60' long shall be placed more than 15' from Pier C.

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
GAR	08/10	KJS	09/10	KJS	10/10
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UNIT 2 DECK REINFORCING PLAN			
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Detailer:	M. Eberly	Numbers	
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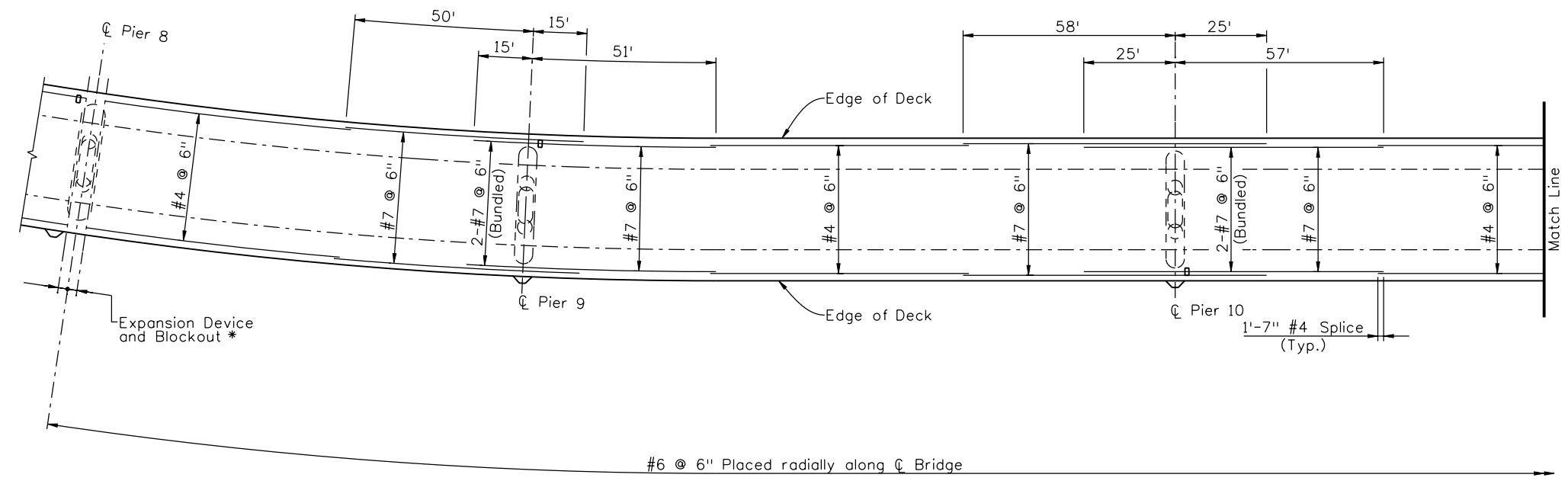
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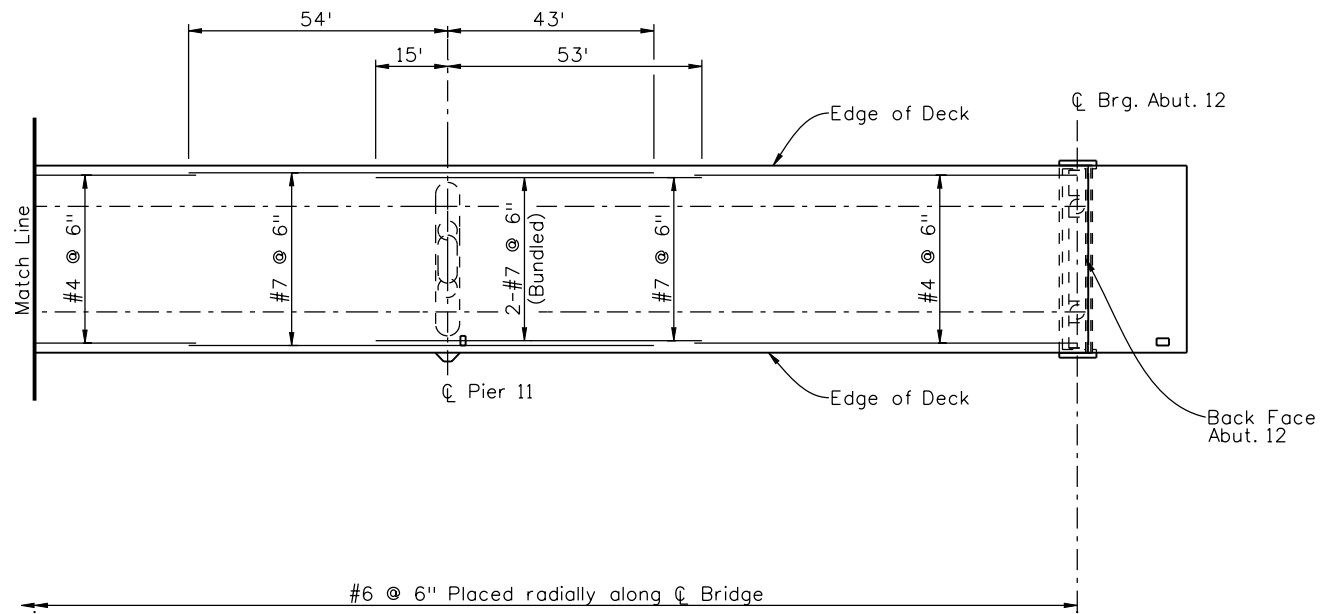


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* Refer to Sheet B89 for Reinforcing in Expansion Device Blockout



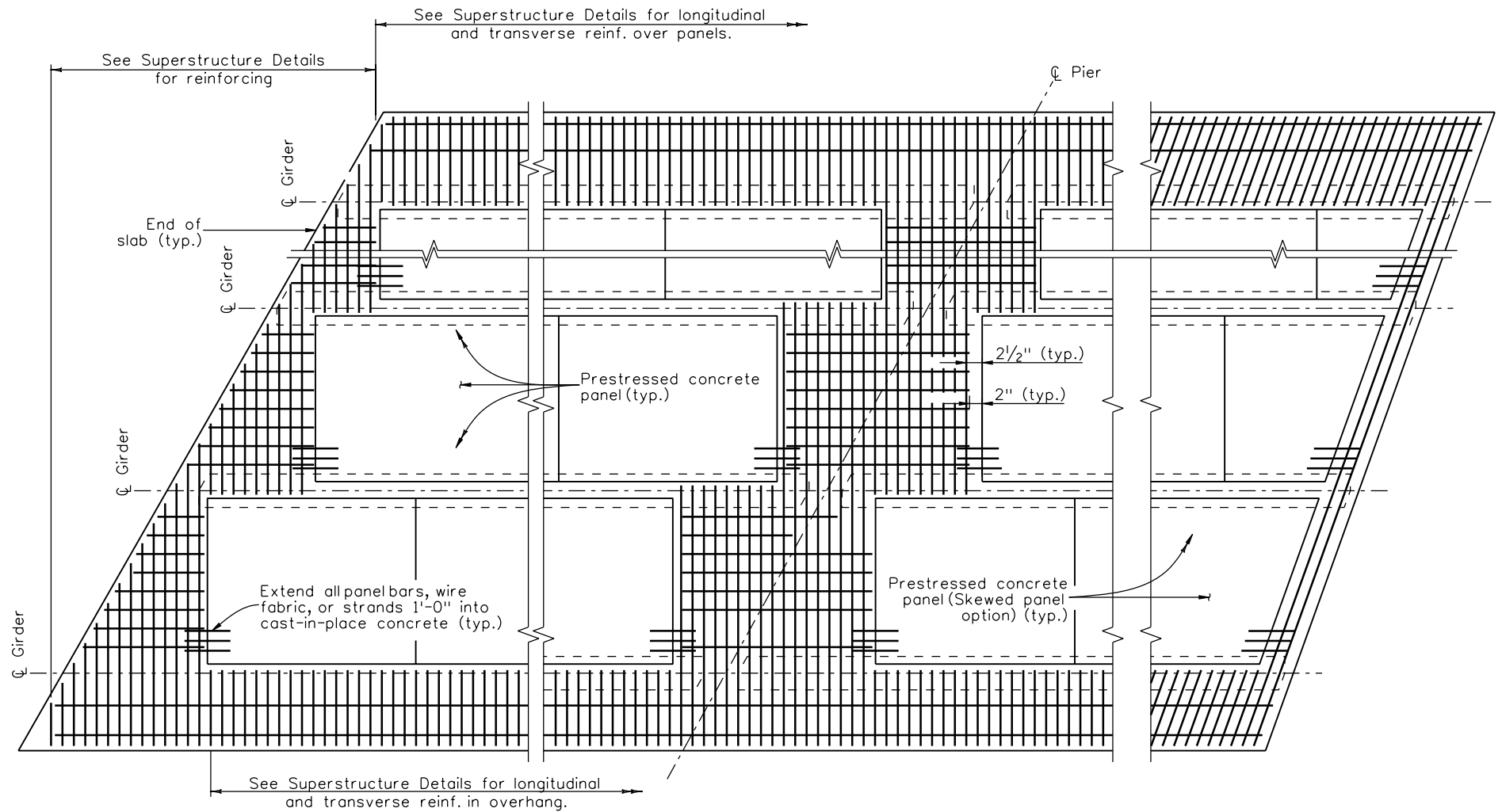
NOTES:

- Bottom Steel not shown. Refer to Sheet Unit 1 Typical Section for additional Slab and Reinforcing Details.
- Stagger Splices by a minimum of 4'-0".
- See Construction Layout for Bridge Drain Locations. See Slab Details for additional Reinforcing at Bridge Drains.
- Minimum Splice length for #7 bar is 2'-10".
- Splices for bars shown greater than 60' long shall be placed more than 15' from Pier \bar{C} .

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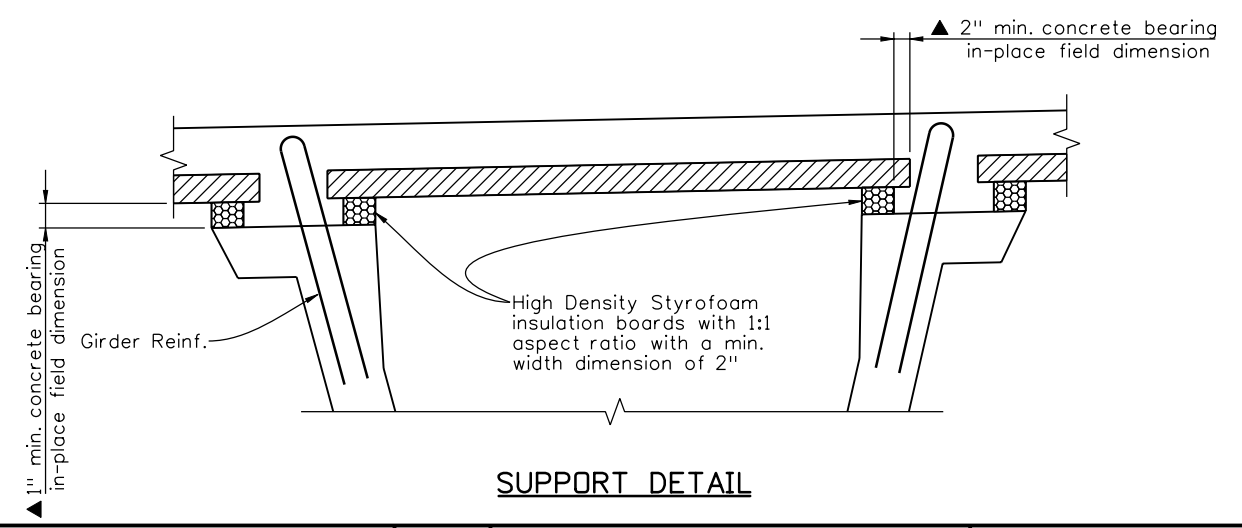
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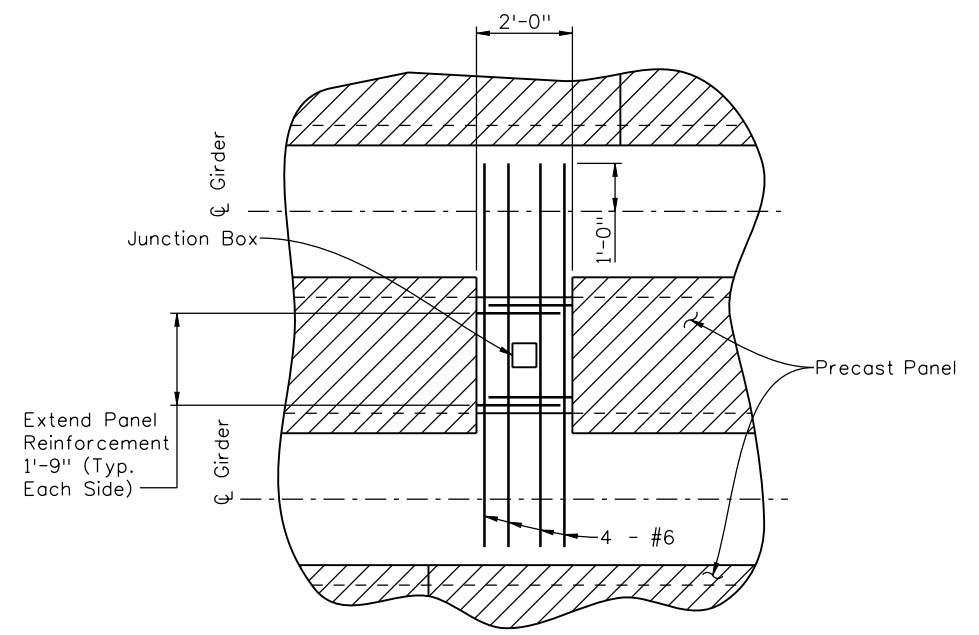


END OF SLAB RECTANGULAR PANEL OPTION AND SKEWS LESS THAN 70°
CONTINUOUS SLAB OVER PIER PART PLAN
END OF SLAB SKEWED PANEL OPTION FOR SKEWS 70° TO 90°

Rectangular panel option shall be used for skews less than 70°.



SUPPORT DETAIL



JUNCTION BOX DETAIL

(Bottom Slab Reinforcing shown, See Slab Details for Top Slab Reinforcing)

NOTES:

Composite total slab designed for HS 25-44 and Alternate Military Loading.

All concrete shall be Class PS with release strength $f_{ci} = 4500$ psi and minimum 28 day strength $f'_c = 6000$ psi. Entrained air is not required for precast panel deck form concrete. The strength shall be at least 5000 psi at the time of the deck pour.

Use $\frac{3}{8}$ " ϕ low relaxation strands meeting the requirements of ASTM A416 grade 270. Jacking force per strand (F_j) shall be at least 17.2 kips. Final force per strand (F_r) is estimated to be 14.2 kips.

Installation of Bar U (#3) is mandatory. All four Bar U (#3) loops shall be used simultaneously for lifting the panels.

Care must be taken to ensure proper cleaning of construction debris off the tops of the panels and consolidation of concrete mortar under the edges of the panels. Water, dirt or other debris on top of the panels will inhibit the bond of the cast-in-place concrete. It is also important that adequate space (\blacktriangle min. 1" x 2") is provided for the concrete to fill the space under the panel as the slab concrete is placed. Panel lengths and width shall be determined by the Contractor and shown on the shop plans.

The Contractor is responsible for the stability of the panels on the girders. Erected panels shall be uniformly supported along the length of the panel. The Contractor is responsible for meeting the total slab thickness shown on the Superstructure Details.

All planes of reinforcing steel shown in the superstructure details are required for areas not formed with precast panels.

For Electrical Junction Boxes, Anchor Bolts & Luminaire locations, See Construction Layout.

Print Date: 10/22/2010

File Name: 16311BRDG_PH2_F-16-XR_DeckPanel01.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials

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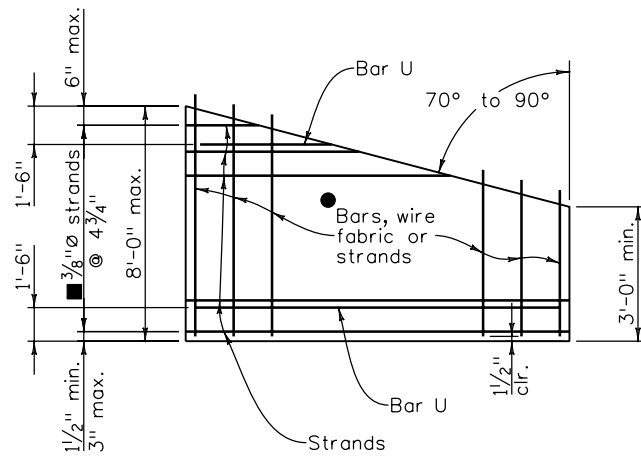
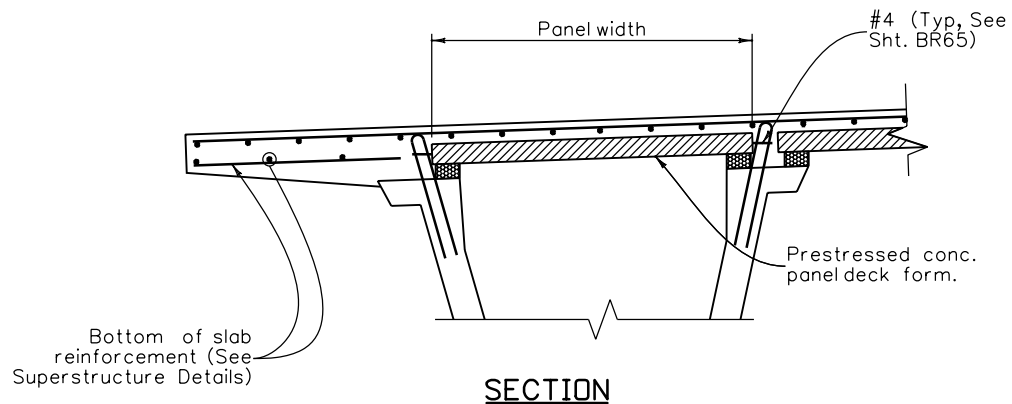
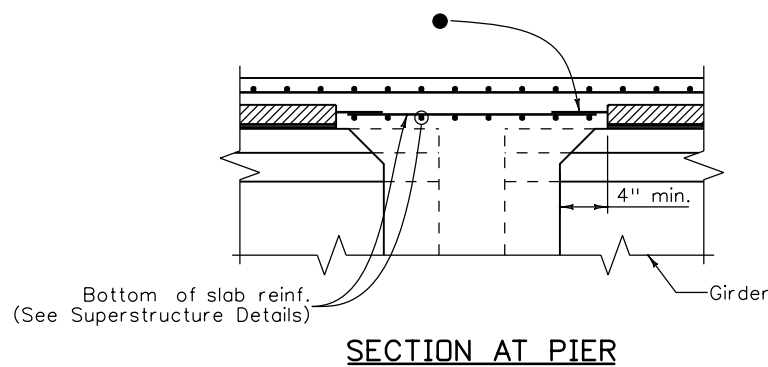
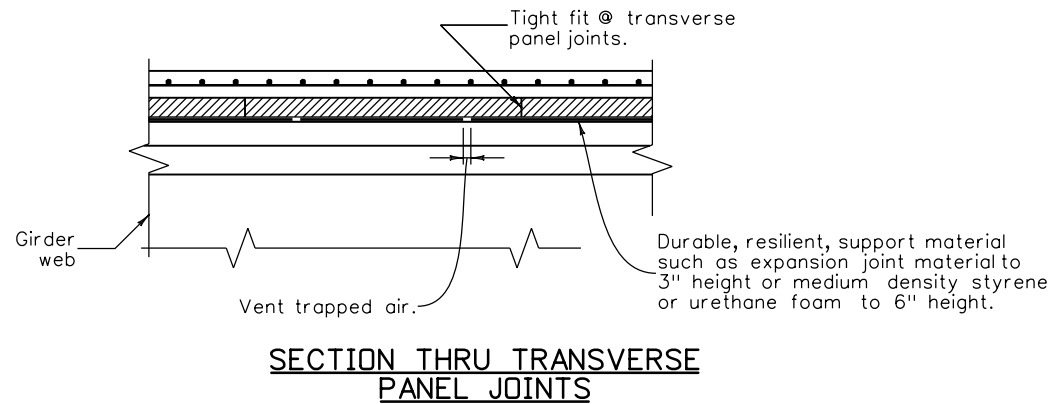
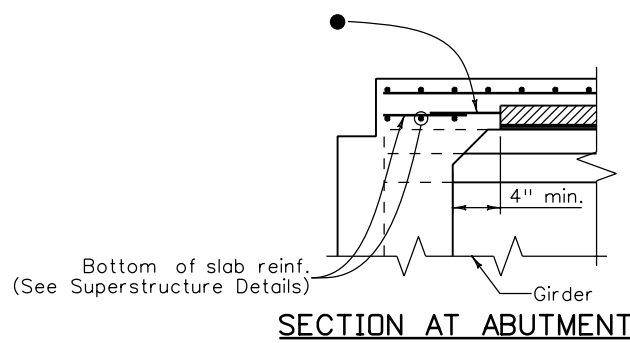
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PRECAST PANEL DECK FORM (1 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subset Sheets:		BR69 of 107	

Project No./Code
BR 0252-407
17783
Sheet Number 227

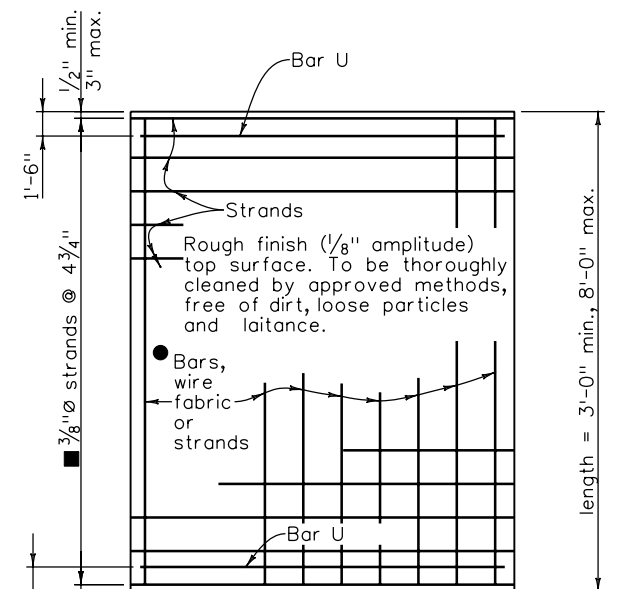


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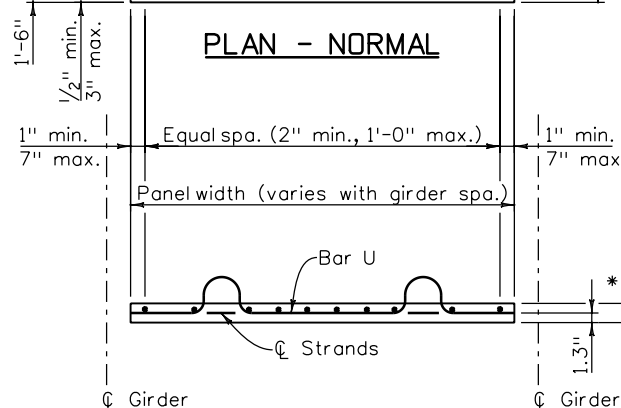
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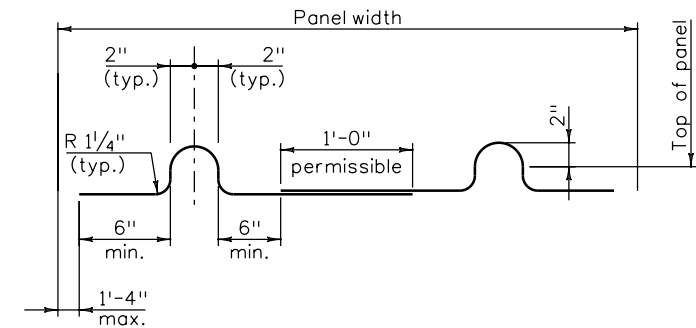
**PLAN - SKEWS 70° TO 90°
OPTIONAL END PANEL**



PLAN - NORMAL



PRESTRESSED PANEL DETAILS



**BAR U (#3)
PRESTRESSED PANEL DETAILS**

NOTES:

Sawing of panels is acceptable in areas where projecting reinforcement is not required. It is desirable to have the prestressing strands project from the panels as long as the projecting strands do not interfere with other bridge components.

● Reinforcing perpendicular to strands may be deformed reinf. bars, welded wire fabric, or welded deformed bar mats, and shall be placed directly above the strands. Minimum area of reinforcing perpendicular to strands shall be 0.11 sq. in. per ft. Tensioned or untensioned strands may also be used. These individual bars or wires shall be no larger than .375" diameter. For location of longitudinal bar extensions, see sheet 2 of 2.

■ May be reduced to 3/8"Ø strands at 9 1/2" when the panel width is less than 5'-7" and the design span is less than 7'-7".

The longitudinal reinforcing steel in the cast-in-place portion of the deck may rest directly on the panels as necessary to obtain clearances at the top of deck, unless otherwise noted.

The tolerance on strand placement shall not exceed ±1/4".

The tolerance on panel thickness shall not exceed ±1/4".

Concentrated construction loads shall not exceed 500 lb for 3" panels, 700 lb for 3.5" panels, nor 1100 lb for 4" panels unless the load is distributed to less than 117 psf.

Total loads applied to any panel during construction shall not exceed 117 psf.

Bottom flexural cracks, sags greater than .5", or cambers greater than .5" will be considered evidence of mishandling, overloading, or exceeding allowable tolerances, and may be cause for rejecting panels at the Engineer's discretion.

* 3" or 4", See Superstructure Section for details.

Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_DeckPanel02.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials



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RAMP 1 FLYOVER
PRECAST PANEL DECK FORM (2 OF 2)

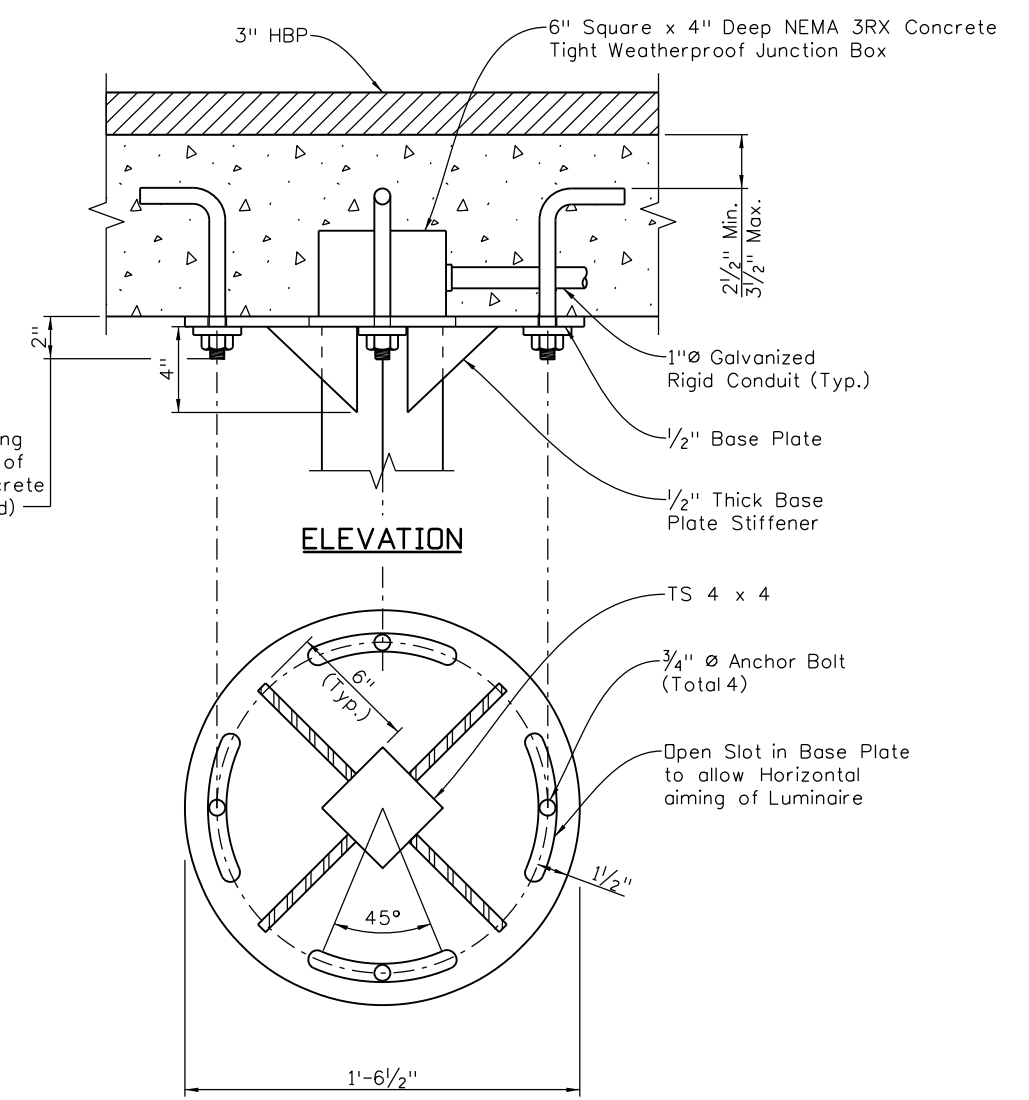
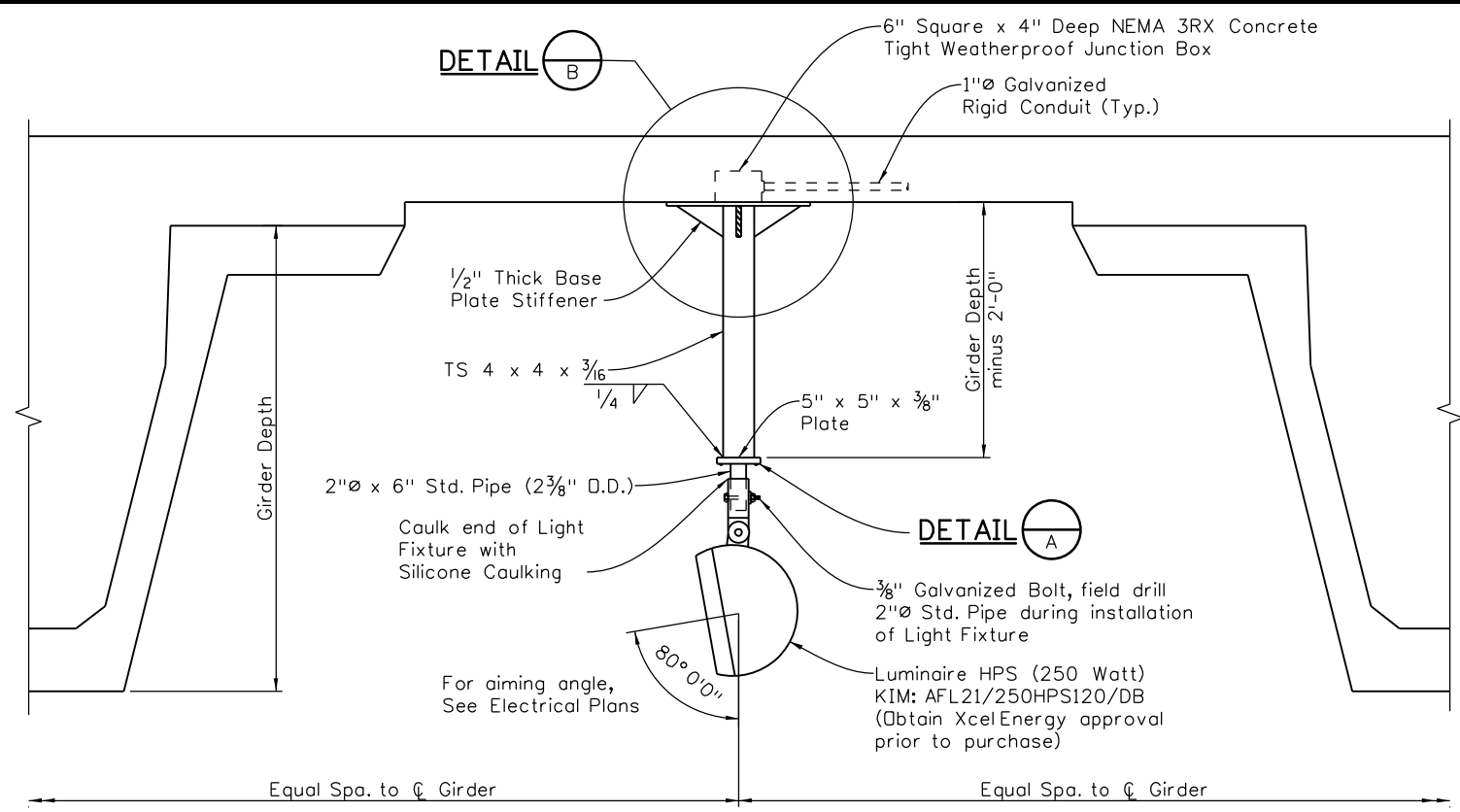
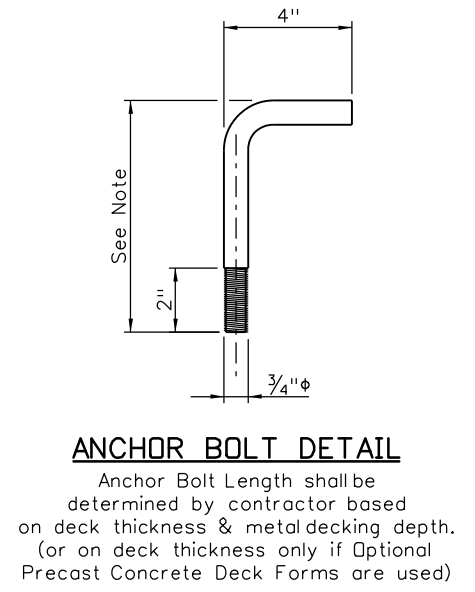
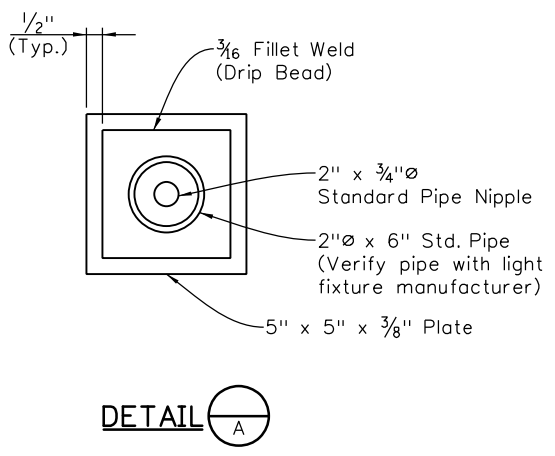
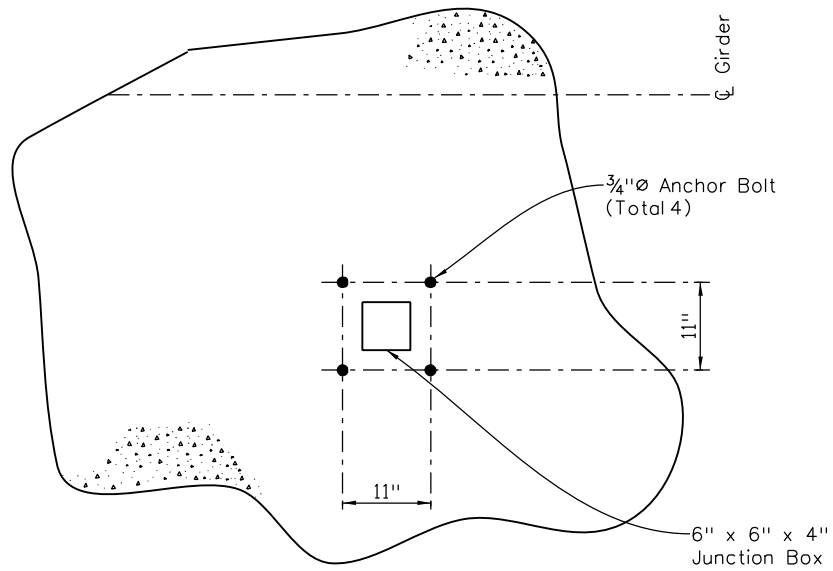
Designer: G. Reese Structure Numbers: F-16-XR
Detailer: K. Soellner

Sheet Subset: Bridge Subset Sheets: BR70 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 228 A

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11/22/2010 C:\001-DefaultPrinter_XM.plt

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11/10	PRS	11/10	TF	11/10	TF
Designed By		Detailed By		Quantities By	
Checked By		Checked By		Checked By	

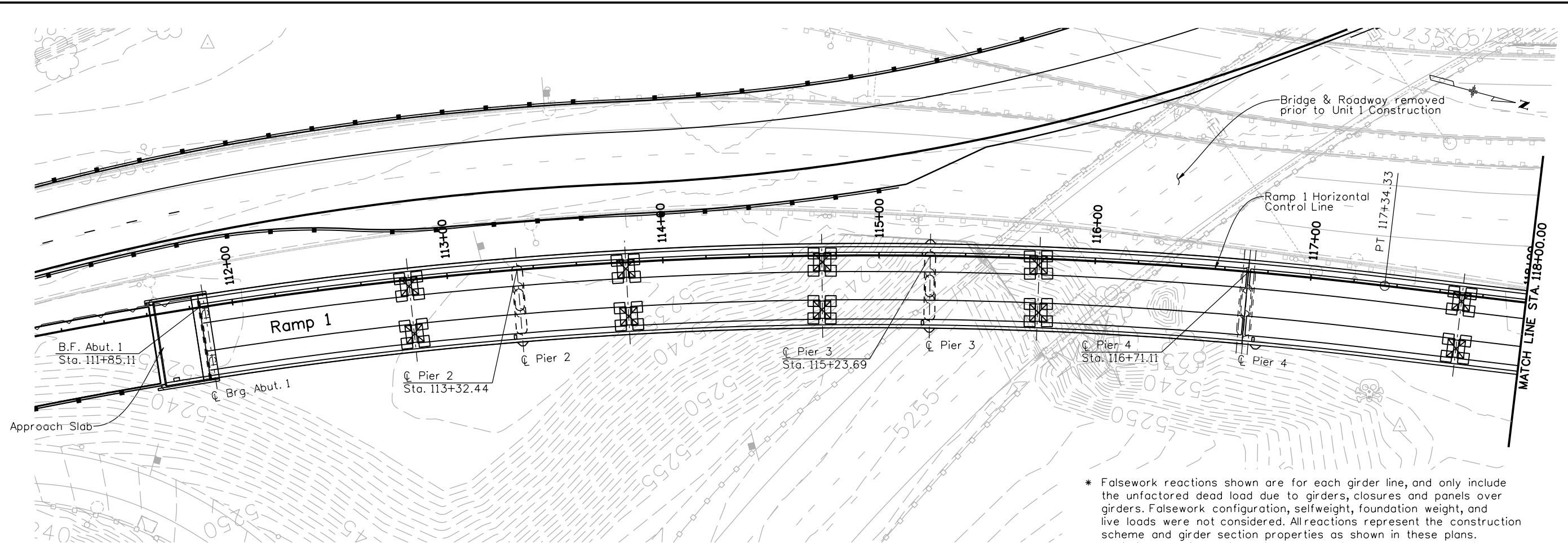


- NOTES:**
- Structural Tubing shall be ASTM A500 Grade B. Steel pipe shall be ASTM A53, Type E or S Grade B. All other structural steel shall be ASTM 706, Grade 36.
 - Anchor Bolts, Nuts and Washers shall be galvanized.
 - Paint Structural Tubing per Section 509. Color shall be Federal Color No. 26251 (Dark Gray).
 - See Construction Layout for location of Conduit and Luminaires.
 - Structural Steel Pendant Luminaire shall not be paid for separately, but shall be included in the cost of Item 613-72150 (Underbridge Luminaire 250W HPS), See Lighting Plans.

Print Date: 11/22/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER PENDANT LUMINAIRE DETAILS		Project No./Code	
File Name: 16311BRDG_PH2_F-16-XR_Luminaire.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions: Revised: Void:		Designer: B. Beams Detailer: K. Soellner Sheet Subset: Bridge		BR 0252-407 17783 Subset Sheets: BR71 of 107	
Horiz. Scale: 1:1 Vert. Scale: As Noted	12/3/10	Misc. Revisions	GAR								
Unit Information	Unit Leader Initials			Region 6		RLB		Structure Numbers		Sheet Number 229 A	
10822 Teller Drive Suite 330 Littleton, CO 80127											

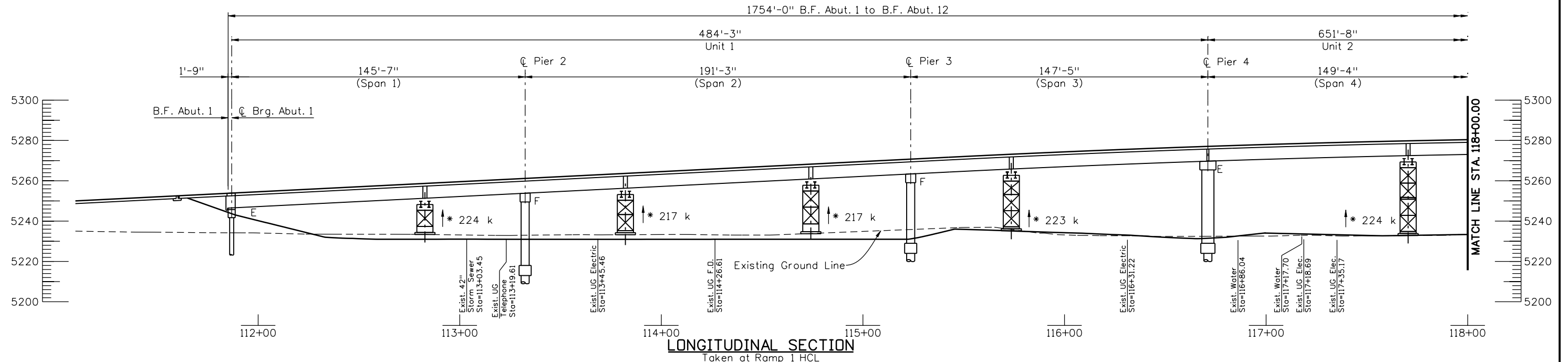
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Design		Detail		Quantities	
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GAR	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By



PLAN

* Falsework reactions shown are for each girder line, and only include the unfactored dead load due to girders, closures and panels over girders. Falsework configuration, selfweight, foundation weight, and live loads were not considered. All reactions represent the construction scheme and girder section properties as shown in these plans. Deviations of either will require recalculation of falsework reactions.

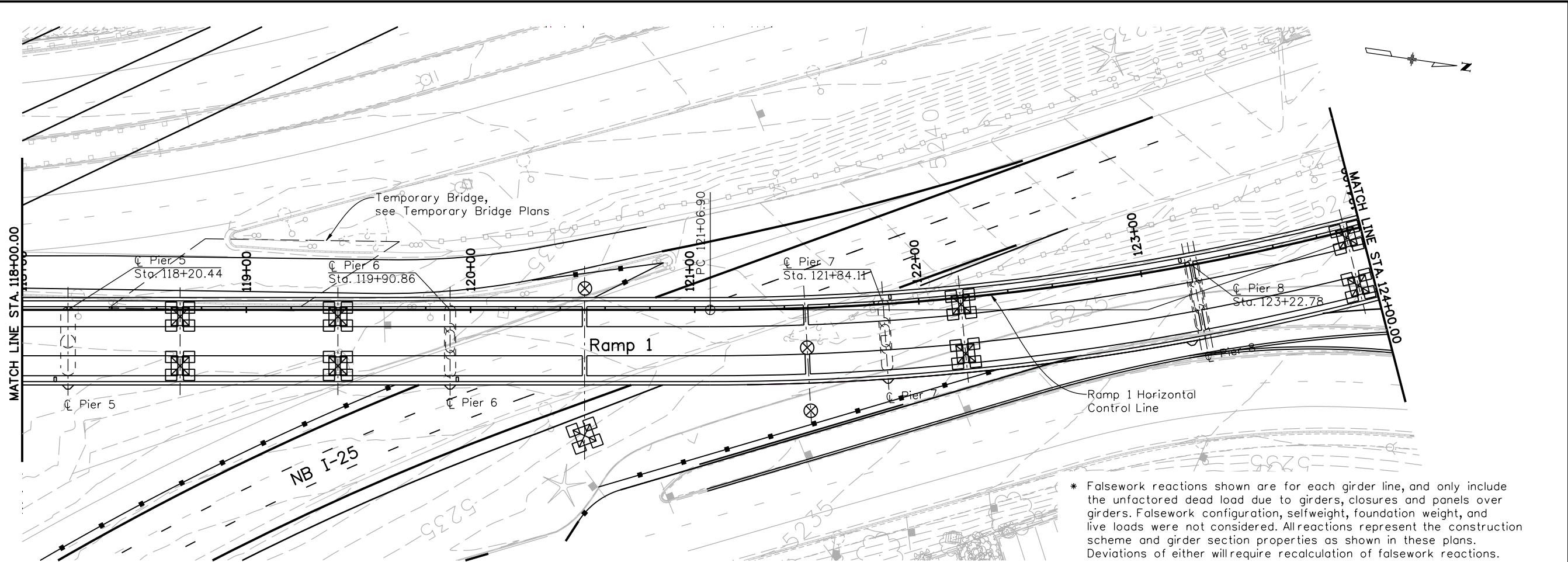


LONGITUDINAL SECTION

Taken at Ramp 1 HCL

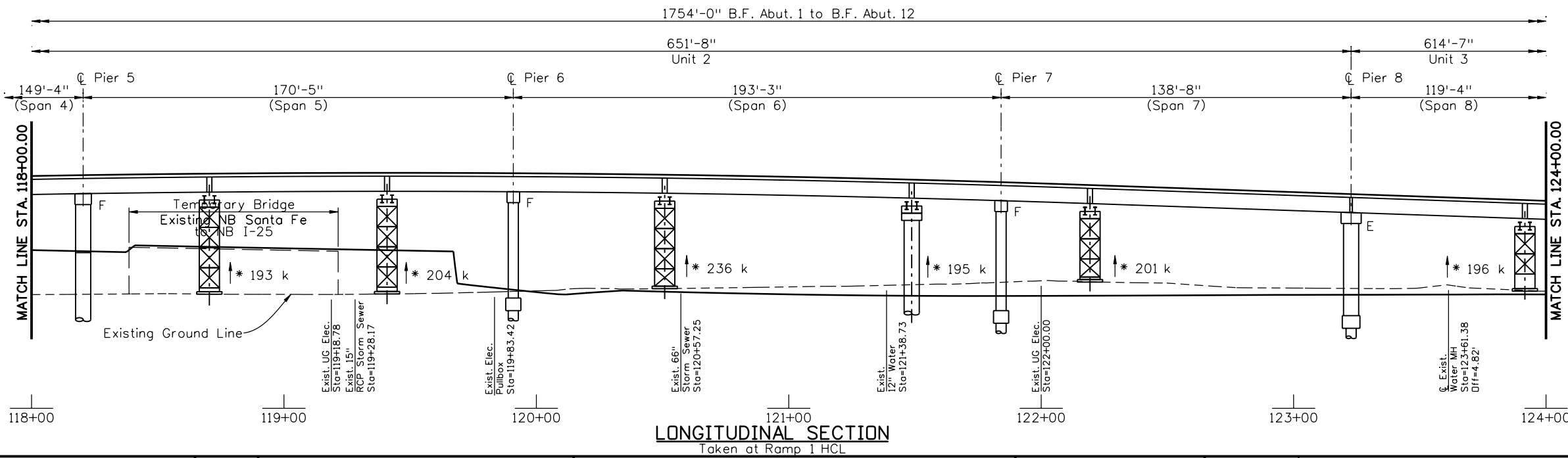
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Horiz. Scale: 1:50	12/3/10	Misc. Revisions	GAR		Revised:		FALSEWORK CONSTRAINTS (1 OF 3)		17783	
Unit Information	1/3/11	Misc. Revisions	GAR		Void:		Designer: G. Reese	Structure: F-16-XR	Sheet Number 230 B	
Unit Leader Initials						Detailer: K. Soellner	Numbers			
						Sheet Subset: Bridge	Subset Sheets: BR72 of 107			

Summit
ENGINEERING GROUP, INCORPORATED
CONSULTING STRUCTURAL ENGINEERS
10822 Teller Drive Suite 330
Littleton, CO 80127



* Falsework reactions shown are for each girder line, and only include the unfactored dead load due to girders, closures and panels over girders. Falsework configuration, selfweight, foundation weight, and live loads were not considered. All reactions represent the construction scheme and girder section properties as shown in these plans. Deviations of either will require recalculation of falsework reactions.

PLAN



LONGITUDINAL SECTION
Taken at Ramp 1 HCL

Design		Detail		Quantities	
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GAR	08/10	KJS	09/10	KJS	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_FalseworkCon02.dgn
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 Vert. Scale: As Noted
 Unit Information: Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)
			(R-3)

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 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

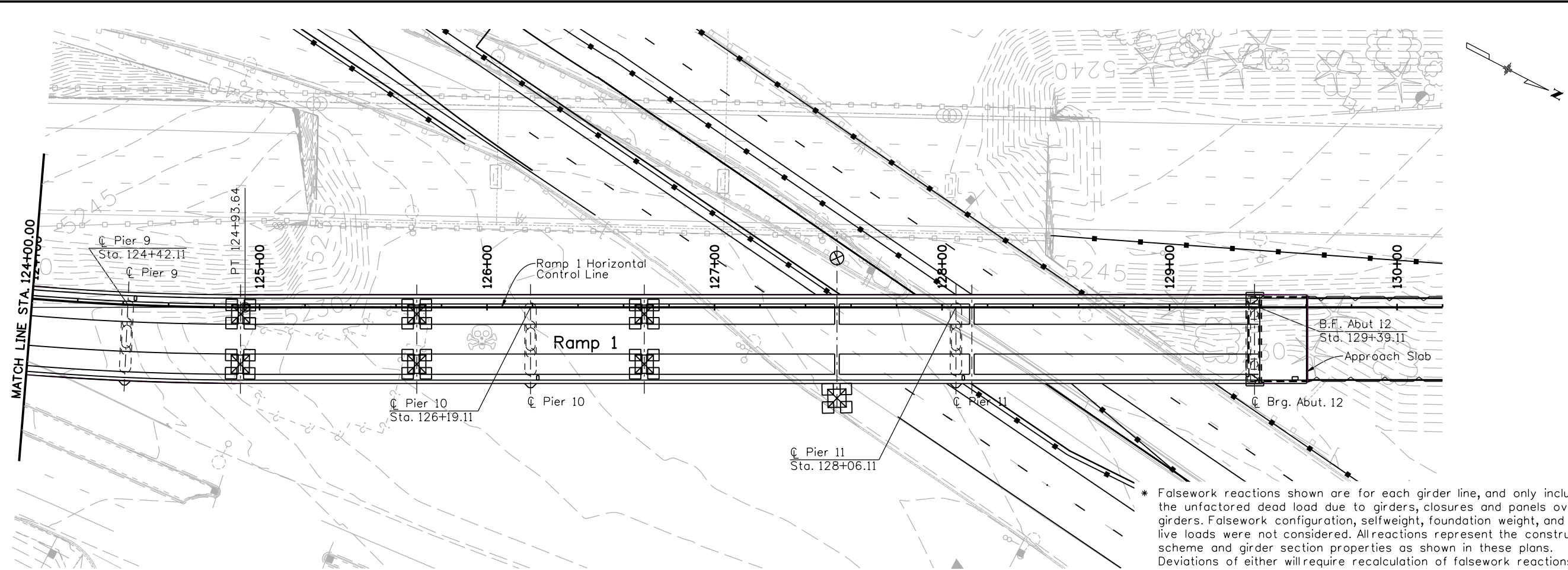
I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 FALSEWORK CONSTRAINTS (2 OF 3)

Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR73 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 231 B

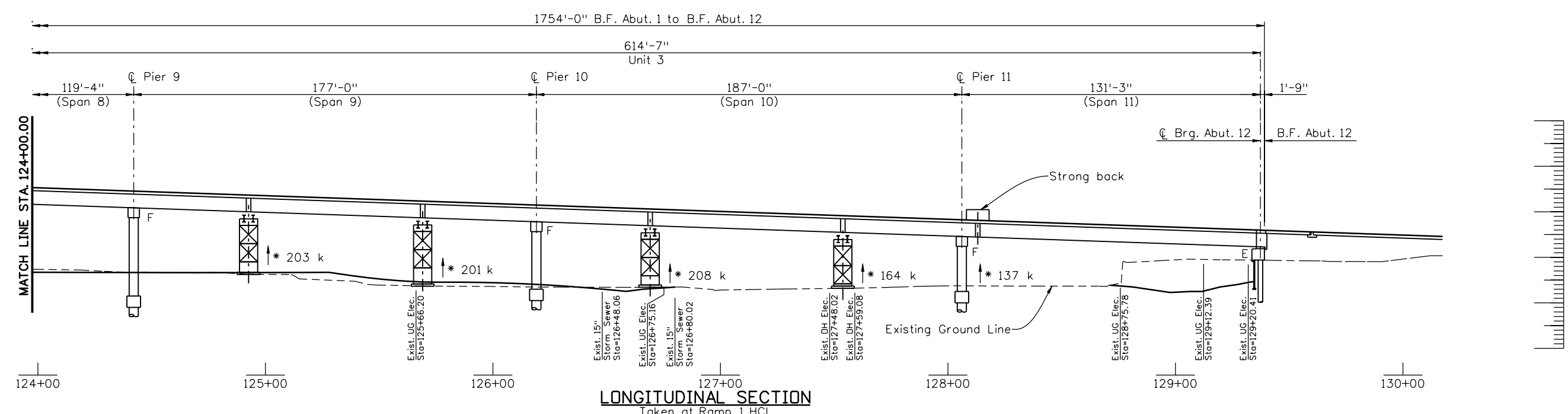


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* Falsework reactions shown are for each girder line, and only include the unfactored dead load due to girders, closures and panels over girders. Falsework configuration, selfweight, foundation weight, and live loads were not considered. All reactions represent the construction scheme and girder section properties as shown in these plans. Deviations of either will require recalculation of falsework reactions.

PLAN



LONGITUDINAL SECTION
Taken at Ramp 1 HCL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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PRS	11/10	TF	11/10	TF	11/10

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Horiz. Scale: 1:50	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

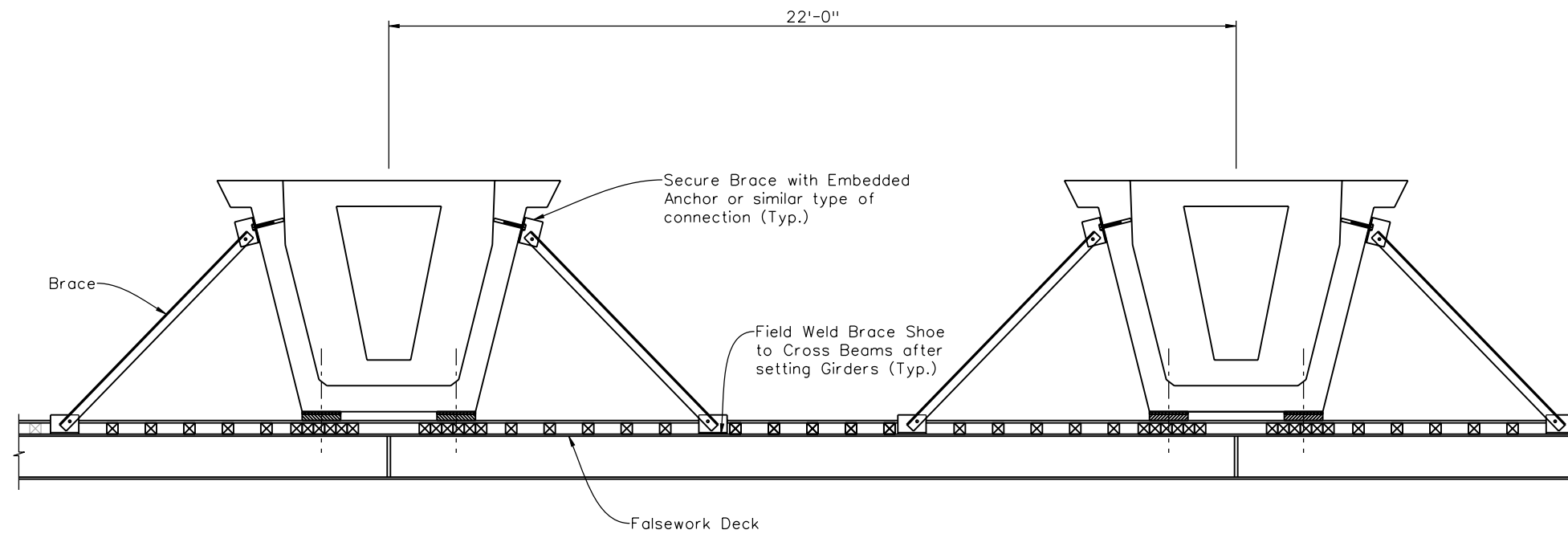
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No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE	
RAMP 1 FLYOVER	
FALSEWORK CONSTRAINTS (3 OF 3)	
Designer: G. Reese	Structure Numbers: F-16-XR
Detailer: K. Soellner	
Sheet Subset: Bridge	Subset Sheets: BR74 of 107

Project No./Code	BR 0252-407
	17783
Sheet Number	232 B



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ERECTION BRACING AT ENDS OF PRECAST GIRDERS

NOTES:

1. This drawing is intended to represent suggested methods for bracing the precast girders during erection to resist rolling and provide and limit torsional stresses.
2. Girders will be supported and torsionally braced on falsework at each end at each splice during erection. RE: Falsework design drawings by others.
3. All girders will be braced at each end prior to releasing any significant load from erection equipment to prevent rolling.
4. Erection bracing shall be designed for the maximum end torque. Braces and all associated connections shall be designed by Falsework Engineer.
5. Supporting falsework shall be designed to provide adequate stiffness under brace loads to prevent significant deflections when releasing girders.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
GAR	08/10	KJS	09/10	KJS	10/10
PRS	11/10	TF	11/10	TF	11/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_GirderErect.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

Colorado Department of Transportation

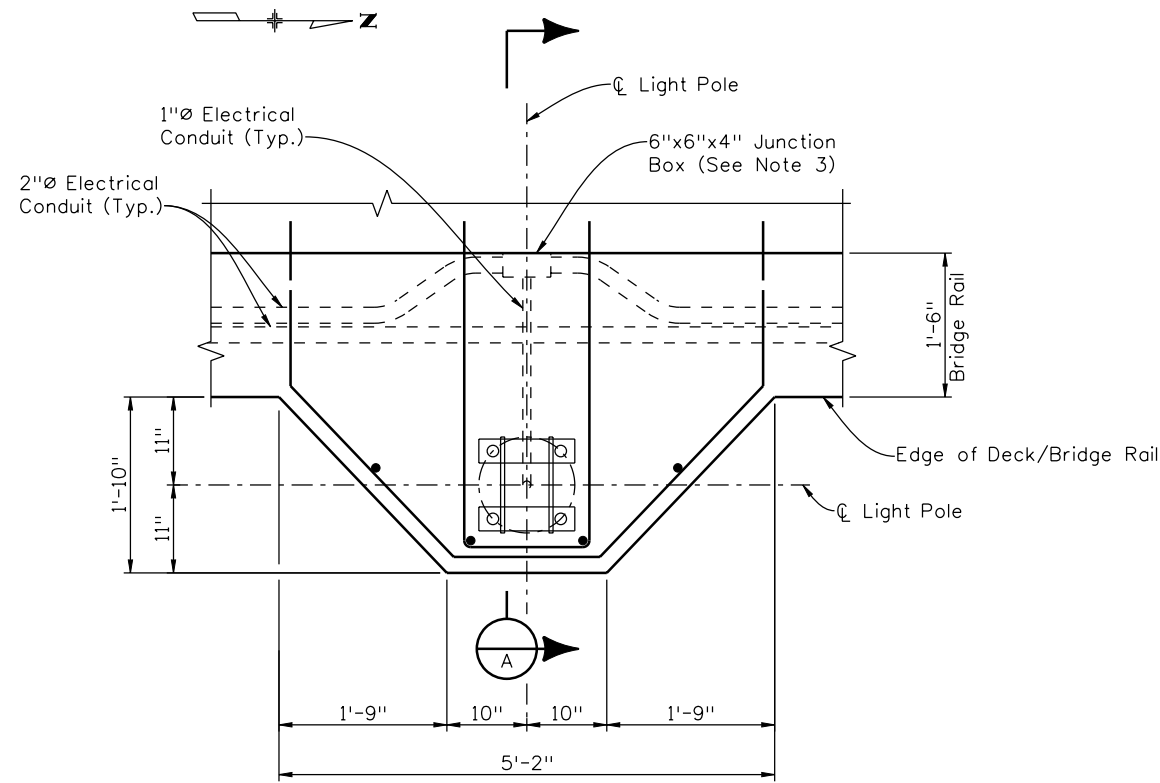
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

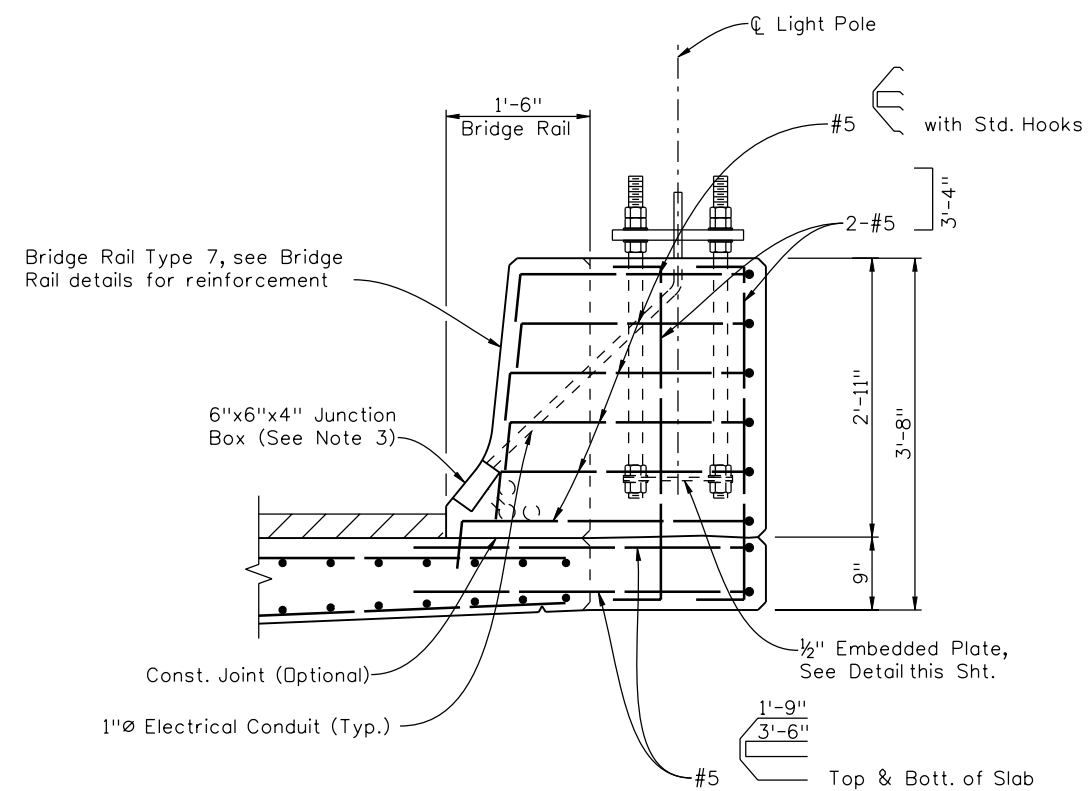
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GIRDER ERECTION BRACING DETAILS			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner		
Sheet Subset:	Bridge	Subset Sheets:	BR75 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 233 A

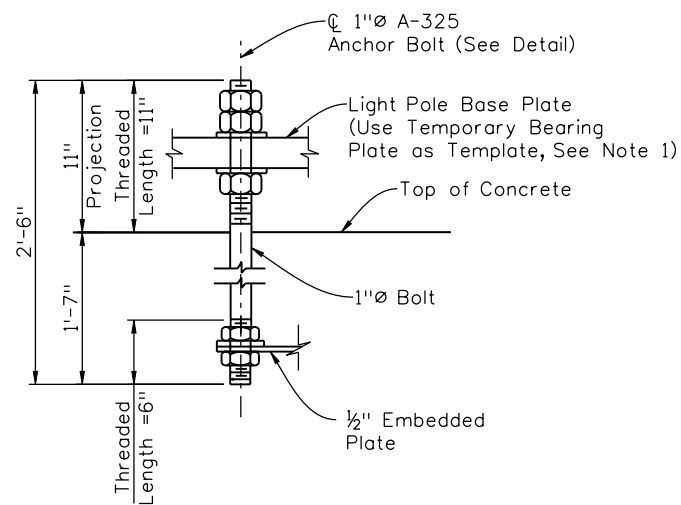
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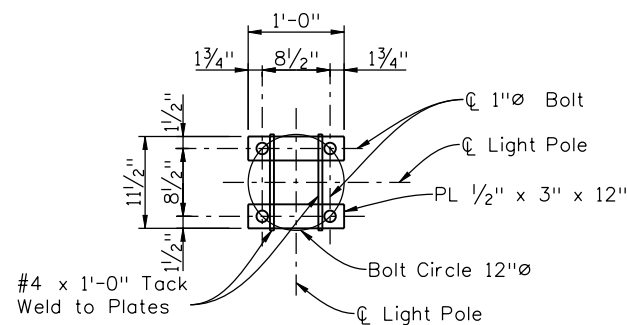
PARTIAL PLAN AT LIGHT POLE SUPPORT
(See Construction Layout for location) (10 Total)



SECTION A-A



ANCHOR BOLT DETAIL



EMBEDDED PLATE DETAIL
(Galvanize after fabrication)

NOTES:

- Contractor shall provide a bolt pattern template for installation of Anchor Bolts.
- Contractor to verify Anchor Bolt Size and Pole Bolt Circle with manufacturer.
- Provide NEMA 3RX Weatherproof Junction Box in face of Bridge Rail at each Light Pole. Paint to match Concrete Stain. Junction Boxes will not be paid for separately, but shall be included in the cost of Item - 2 Inch Electrical Conduit.
- The Light Pole Bases, including Concrete Class D, Reinforcing Steel and Anchor Bolts, will not be paid for separately, but shall be included in the cost of Item - Bridge Rail Type 7.

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DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 11/22/2010

File Name: 16311BRDG_PH2_F-16-XR_LightDet.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	

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Region 6

RLB

As Constructed

No Revisions:

Revised:

Void:

I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
LIGHT POLE SUPPORT DETAILS

Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR76 of 107

Project No./Code

BR 0252-407

17783

Sheet Number 234 A

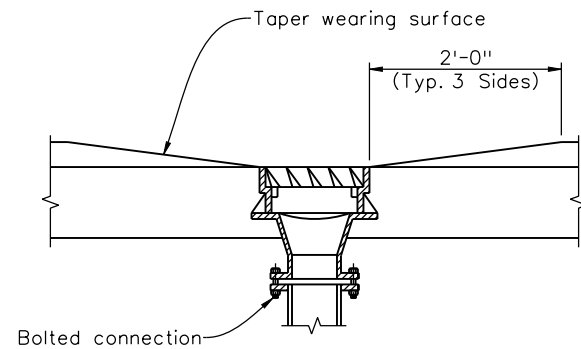


10822 Teller Drive Suite 330
Littleton, CO 80127

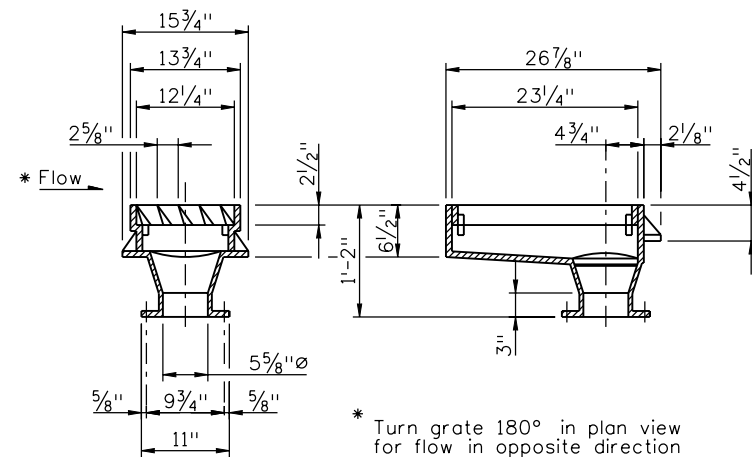
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Revision Dates	Quantities
(Preliminary Stage Only)	

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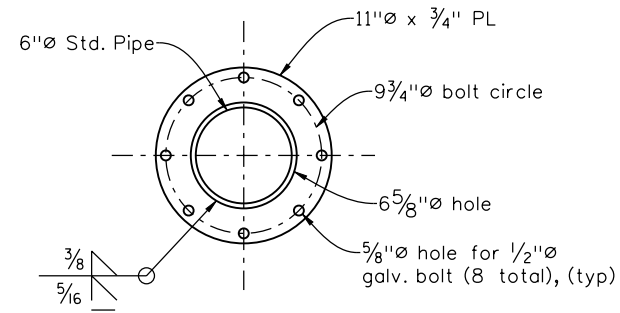


WEARING SURFACE AT BRIDGE DRAIN

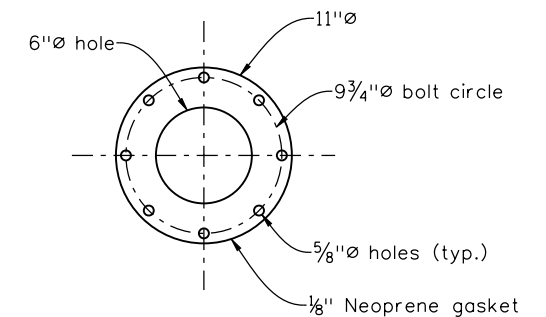


BRIDGE DRAIN INLET

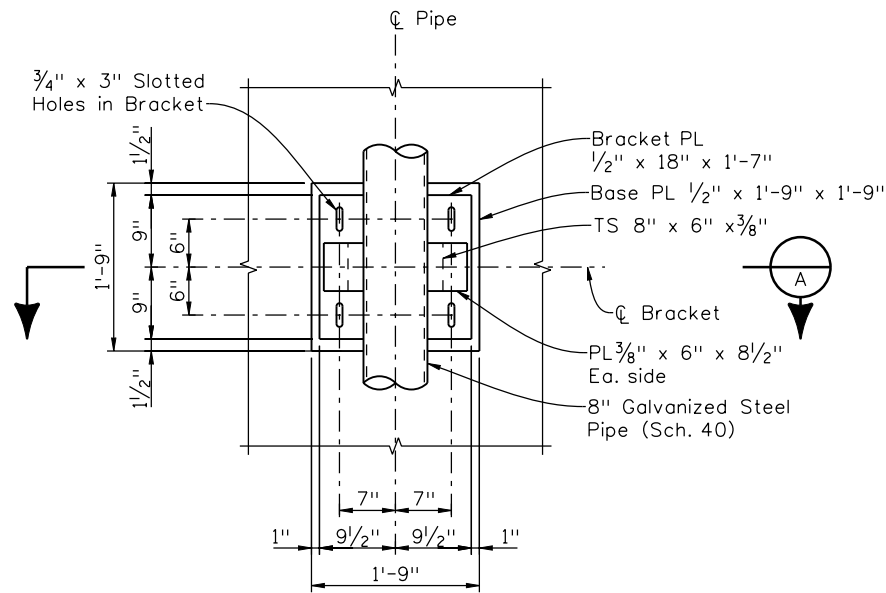
- Acceptable alternatives:
 1. Cast iron Neenah Type R-3922-A
 2. Structural steel assembly galvanized:
 3. or approved equal



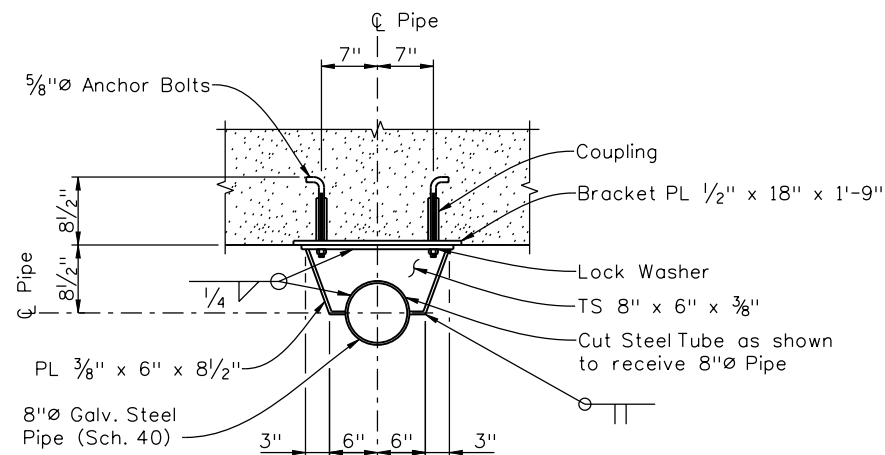
BOLTED FLANGE DETAIL



GASKET DETAIL



ELEVATION



SECTION A
SUPPORT BRACKET
 (Galvanized)

NOTES:

- For location of Bridge Drains, see the Construction Layout.
- Adjust slab reinforcing to clear bridge drains. Additional #6 bars shall be set between top and bottom slab bars. Bend bridge rail reinforcing to fit.
- Cost of furnishing and installing 8" pipe, splash blocks, support brackets, bridge drain inlets, connections, and other necessary drainage system incidentals, shall be included in Item No. 513, Bridge Drain.
- Bridge drains pipe assemblies shall be hot dipped galvanized after fabrication, see revision of Section 513.
- Inlet assemblies shall be left bare ungalvanized if cast iron alloy, galvanized if welded from structural steel.
- Inserts or drilling and grouting may be used for installation of the anchor bolts, as approved by the Engineer.

Print Date: 10/22/2010

File Name: 16311BRDG_PH2_F-16-XR_BridgeDrain01.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

Unit Information Unit Leader Initials



Sheet Revisions

Date:	Comments	Init.

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Region 6

RLB

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No Revisions:

Revised:

Void:

**I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 BRIDGE DRAIN DETAILS (1 OF 2)**

Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets: BR77 of 107	

Project No./Code

BR 0252-407

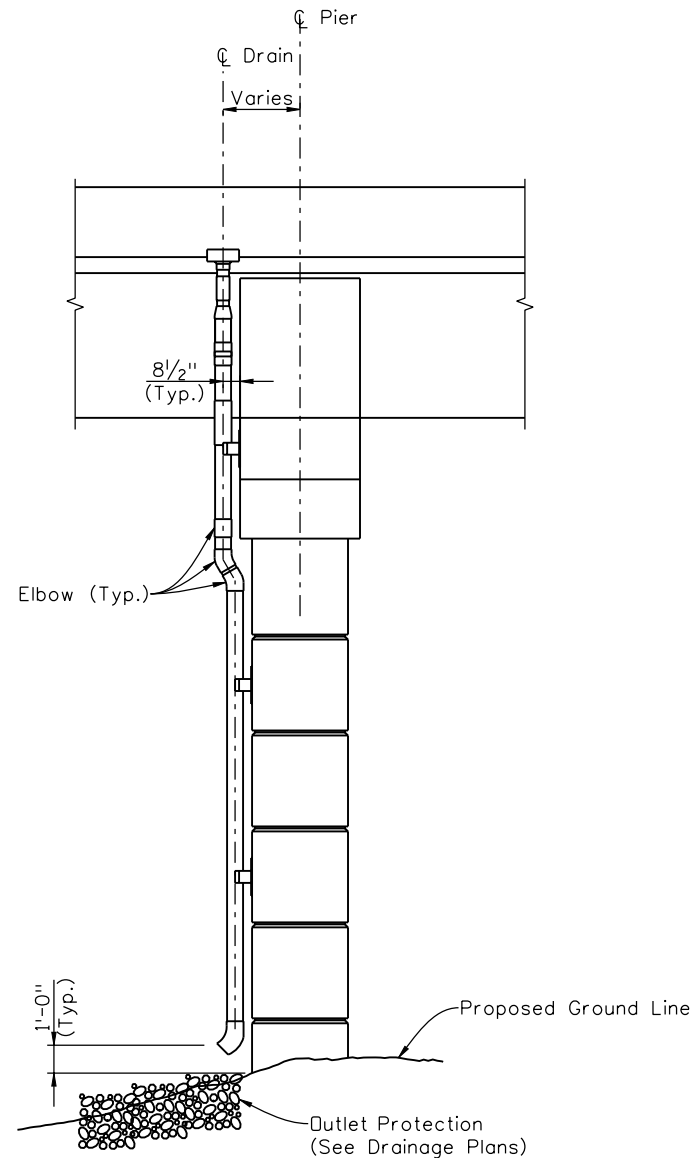
17783

Sheet Number **235**

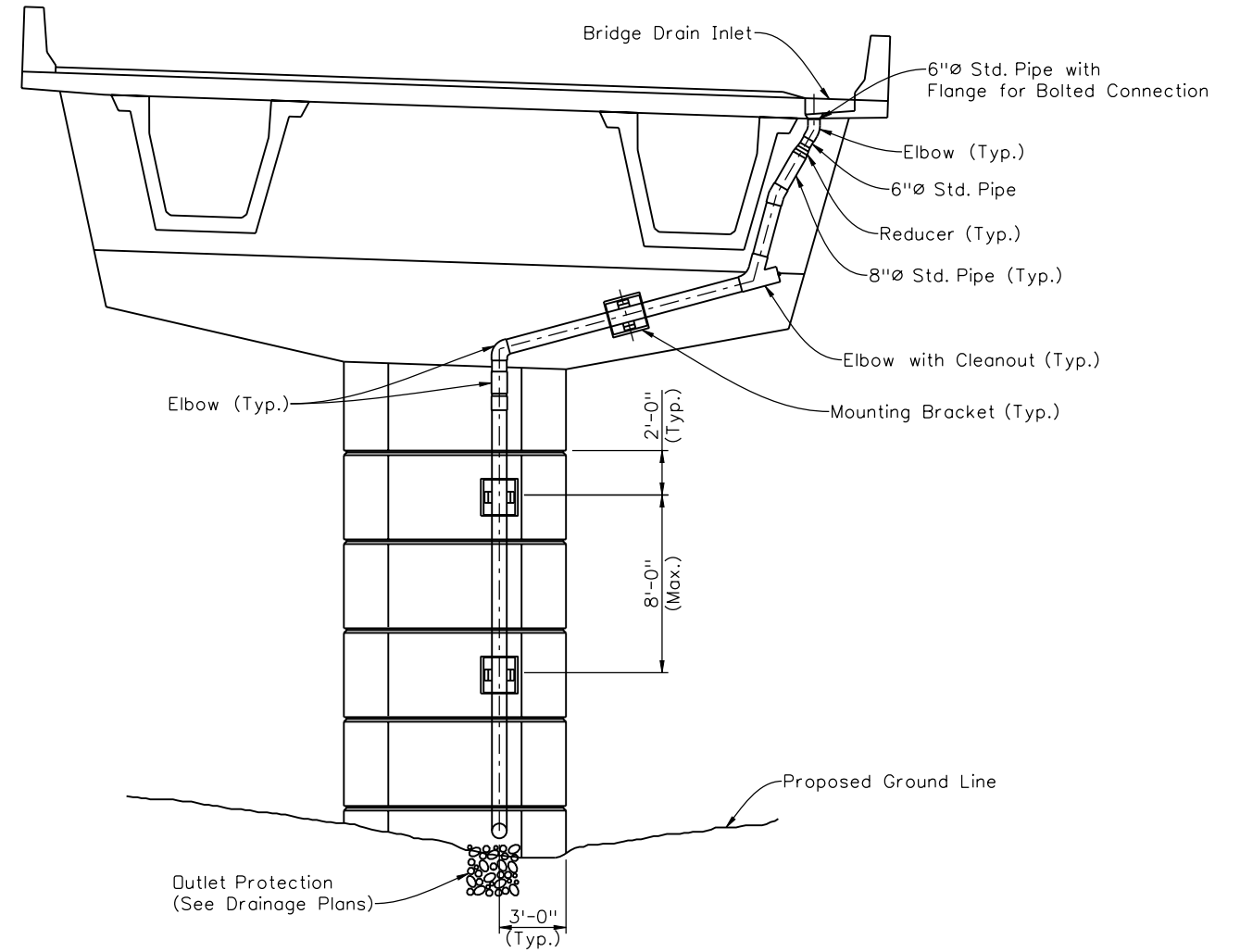
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Revision Dates		Quantities	
Initial	Date	Initial	Date

Design		Detail		Quantity	
Initial	Date	Initial	Date	Initial	Date



TYPICAL SIDE ELEVATION



TYPICAL ELEVATION

(Note: Pier Height Varies)

Print Date: 10/22/2010	0000
File Name: 16311BRDGC_PH2_F-16-XR_BridgeDrain02.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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Denver, CO 80222
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Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

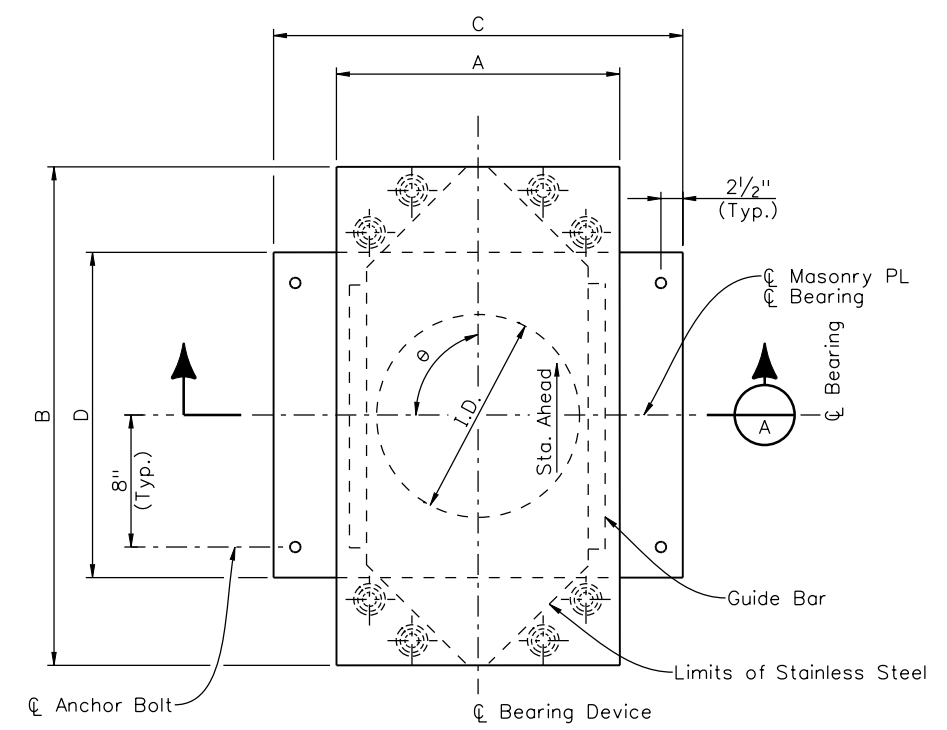
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Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets:	BR78 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 236



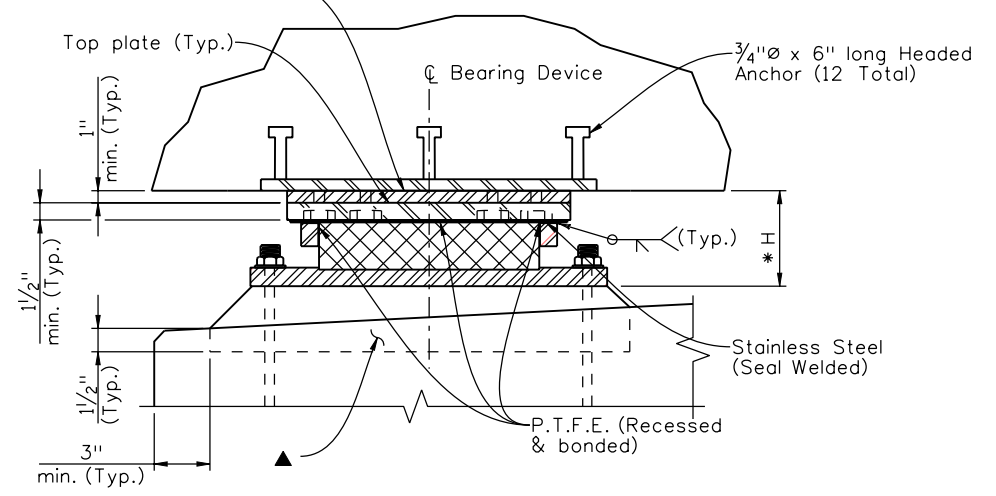
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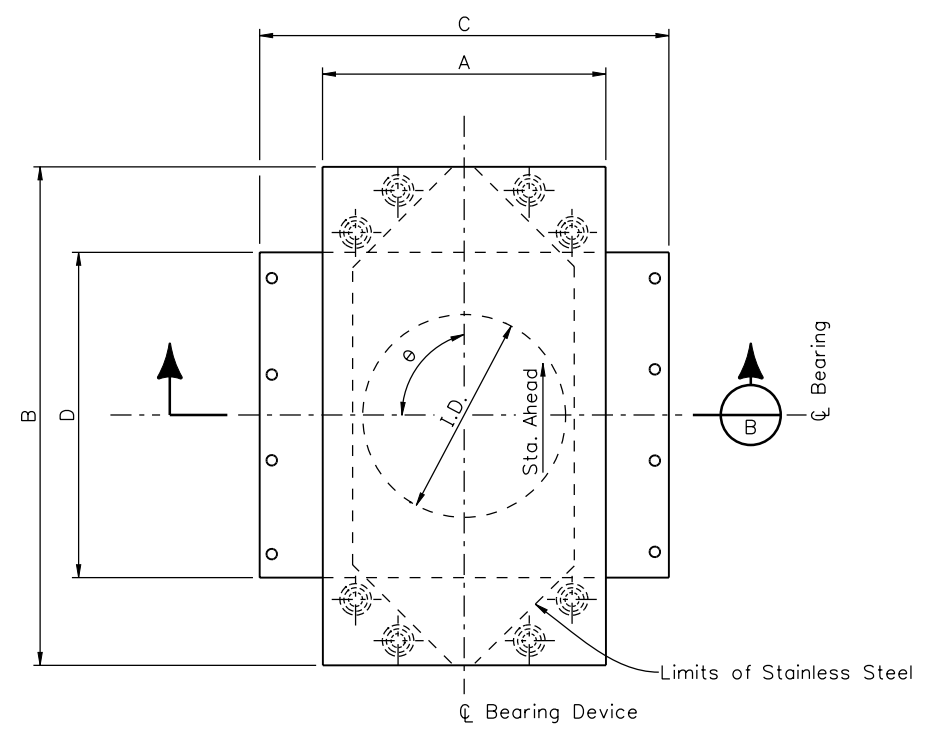
PLAN

Sole PL (Beveled longitudinally and transversely, see table) (Typ.)



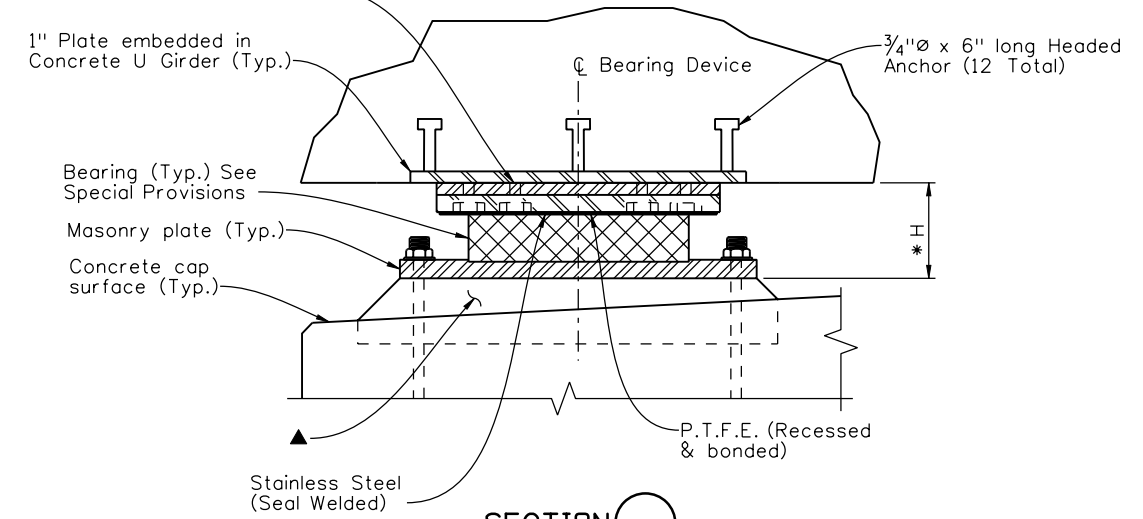
SECTION A-A

SIDE BAR GUIDED EXPANSION BEARING



PLAN

A325 socket head capscrews, with counterbore @ bottom (Typ.)

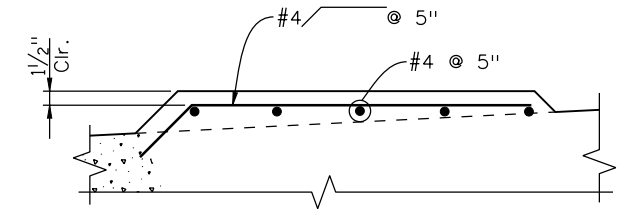


SECTION B-B

NON-GUIDED EXPANSION BEARING

(See Guided Brg. for typ. dimensions)

- ▲ Use non-shrink approved grout in formed cavity or see Detail "C" for alternate built-up monolithic cap seat.
- * Dimension is @ Bearing (Typ.)



DETAIL "C"

Print Date: 12/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_Bearing01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

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Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR
1/3/11	Misc. Revisions	GAR

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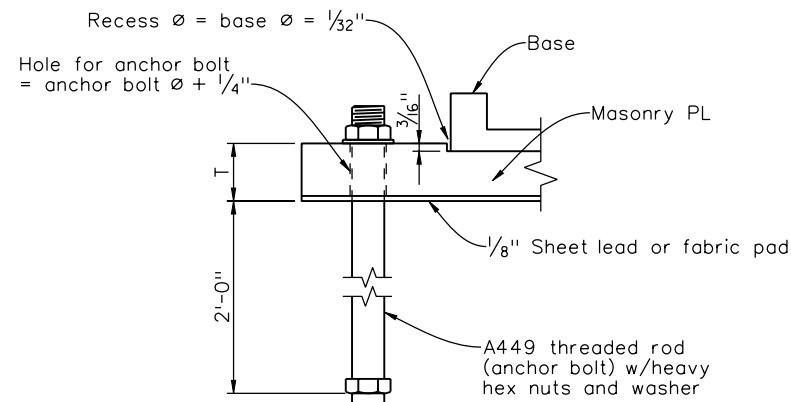
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

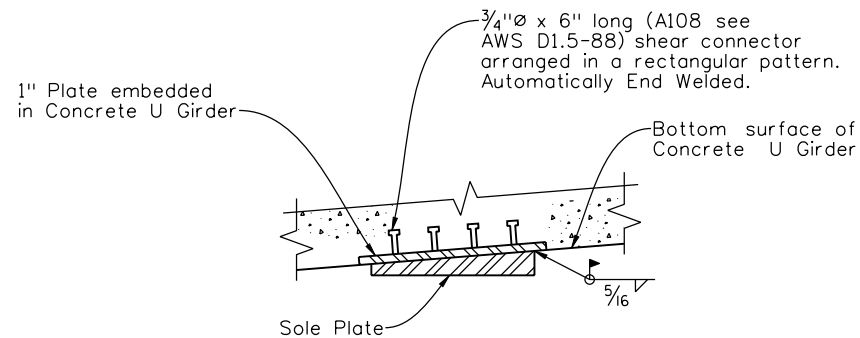
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER BEARING DEVICE (TYPE III)(1 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Subset Sheets:	BR79 of 107

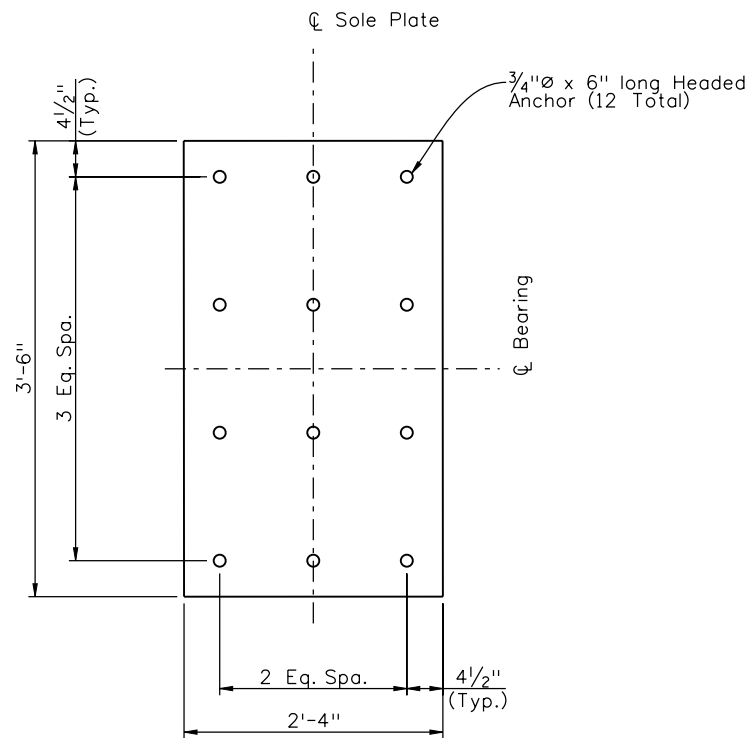
Project No./Code
BR 0252-407
17783
Sheet Number 237 B



ANCHOR BOLT DETAIL



**SOLE PLATE TO GIRDER CONNECTION
(CONCRETE GIRDER)**



PLAN - EMBEDDED PLATE

NOTES:

All structure steel for the bearing devices, including sole plates, top plates, and masonry plates, shall be AASHTO M270 (ASTM A709) Grade 36 unless otherwise shown. A588 or A572 may be substituted for Grade 36 at no additional cost to the project.

Bearing seat elevations at abutments and piers shall be checked and adjusted according to the final dimensions of bearing assemblies adopted.

Longitudinal structure movement due to temperature and shrinkage is based on a mid-range temperature of 40°F. If site temperature is not 40°, a longitudinal offset of top elements of the bearing (above sliding surface) shall be made in the field based on the 10° temperature increment in the table. In addition, longitudinal one way structure movement due to prestress shortening and creep shall be accommodated for all temperature ranges with the initial offset in the table away from the fixed bearing.

Anchor bolts may be set in wet concrete of bearing seat, or placed within a formed cylindrical void 4" in diameter and then grouted with high strength epoxy grout.

The internal surfaces of the pot cavity and the bottom surface of the piston shall be polished after zinc metalizing.

Fx = Fixed bearing
Gd = Guided expansion bearing
Exp = Non-guided (free floating) expansion bearing
PTFE = Polytetrafluoroethylene

ACCEPTABLE ALTERNATES

D. S. Brown Company
North Baltimore, Ohio

Cosmec, Inc.
Walpole, MA

Con-Serv, Inc.
Georgetown, SC

R. J. Watson, Inc.
Amherst, NY
(Disk Bearing Alternate)

LOCATION	QUANT.	FX. GD. EXP.	VERTICAL LOAD PER BRG (KIPS)		HORIZ. LOAD PER BRG. (KIPS)				LONGIT RANGE OF STRUCTURE MOVEMENT (IN.)	ROTATION (RADIAN)	TOP PLATE (SOLE PLATE SIMILAR)		BEARING		MASONRY PLATE (INCHES)			TOP CONCRETE ANCHOR		A449 ZINC PLATED ANCHOR		TOTAL HEIGHT (H)	X-SLOPE % + LOOKING AH. STA.	GRADE % + AH. STA.	GUIDE ANGLE θ	10 DEG TEMP INCR. (IN.)	INITIAL OFFSET (IN.)		
			SERVICE	STRENGTH	SERVICE	STRENGTH	TRANSV.	LONGIT.			TRANSV.	LONGIT.	A	B	ID	OD	C	D	T	NO.	P (IN.)							NO.	SIZE
ABUT 1 LT	1	Gd	539	754	54	0	75	0	4.20	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-3.00	+5.00	90	0.17	-2.125		
ABUT 1 RT	1	Exp	539	754	0	0	0	0	4.20	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-3.00	+5.00	90	0.17	-2.125		
PIER 4 BACK LT	1	Gd	538	759	54	0	76	0	4.00	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.42	+3.32	90	0.17	+2.0		
PIER 4 BACK RT	1	Exp	538	759	0	0	0	0	4.00	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.42	+3.32	90	0.17	+2.0		
PIER 4 AHEAD LT	1	Gd	560	787	56	0	79	0	3.80	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.42	+3.32	90	0.16	-1.875		
PIER 4 AHEAD RT	1	Exp	560	787	0	0	0	0	3.80	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.42	+3.32	90	0.16	-1.875		
PIER 8 BACK LT	1	Gd	513	734	51	0	73	0	7.20	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	+3.40	-3.46	90	0.30	+3.5		
PIER 8 BACK RT	1	Exp	513	734	0	0	0	0	7.20	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	+3.40	-3.46	90	0.30	+3.5		
PIER 8 AHEAD LT	1	Gd	463	668	46	0	67	0	5.70	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	+3.40	-3.46	90	0.25	-2.75		
PIER 8 AHEAD RT	1	Exp	463	668	0	0	0	0	5.70	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	+3.40	-3.46	90	0.25	-2.75		
ABUT 12 LT	1	Gd	495	698	50	0	70	0	4.80	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.00	-3.46	90	0.19	+2.5		
ABUT 12 RT	1	Exp	495	698	0	0	0	0	4.80	0.015	22	32	15	17.25	26	22	1 1/2	12	3/4	4	1 1/4	9	-2.00	-3.46	90	0.19	+2.5		

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_Bearing02.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
1/3/11	Misc. Revisions	GAR

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
BEARING DEVICE (TYPE II)(2 OF 2)
 Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR80 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 238 B

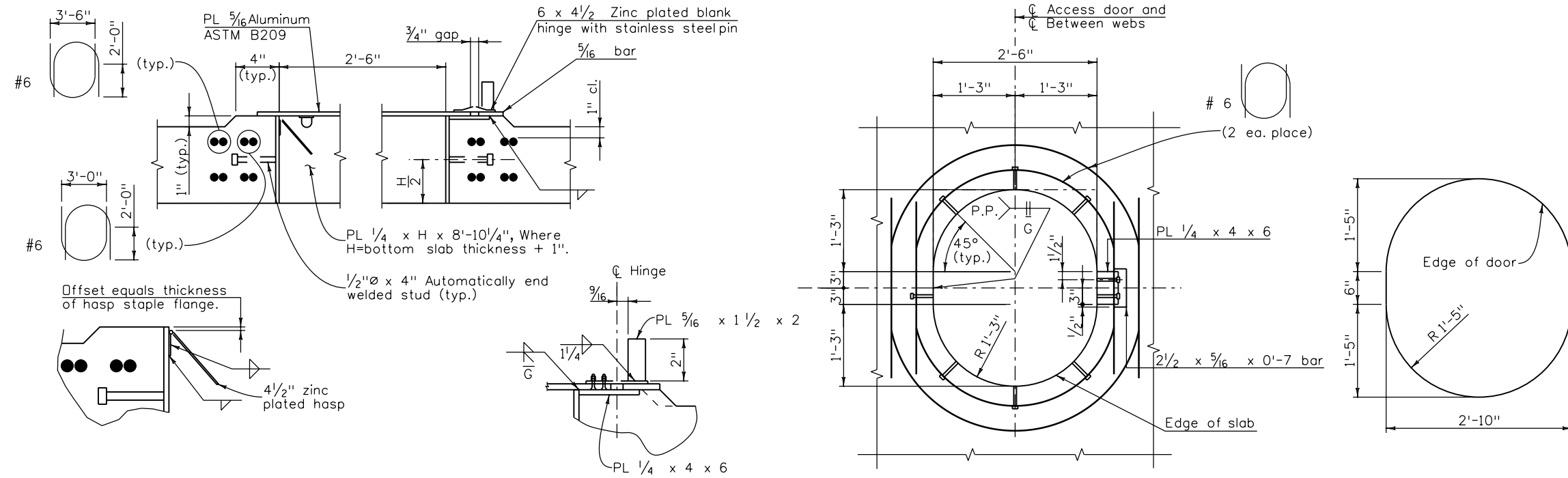


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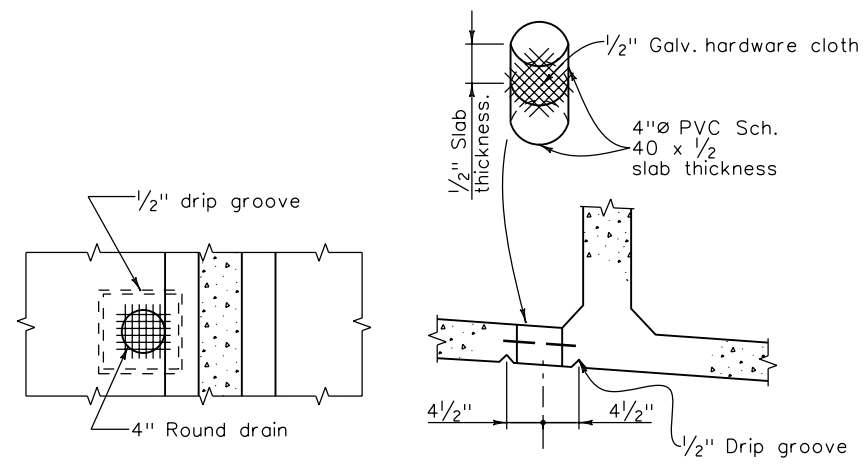
Design		Detail		Quantity	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



NOTES:
 See abutment details and superstructure details for dimensions and reinforcing not shown.
 Grind galvanizing from frame, where the hasp or hinge attaches, prior to welding. After welding, paint the weld and surrounding areas with zinc rich paint meeting Military Specifications DOD-P-21035A.
 Attach door with 4-1/4" zinc plated bolts with countersunk heads. Use double nuts; burr threads after tightening. Attach hasp staple in a similar manner. Leave door in the open position while pouring the bottom slab.
 Paint door with zinc rich paint, meeting the above specification after welding.

ACCESS DOOR DETAILS

Door, galv. frame, and hardware to be paid for in Item No. 601 - Concrete Class D.



PLAN **ELEVATION**
BOTTOM SLAB DRAIN DETAIL
 Locate at low point of each cell.

Print Date: 10/22/2010	0000
File Name: 16311BRDG_PH2_F-16-XR_AccessDoor.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:
Revised:
Void:

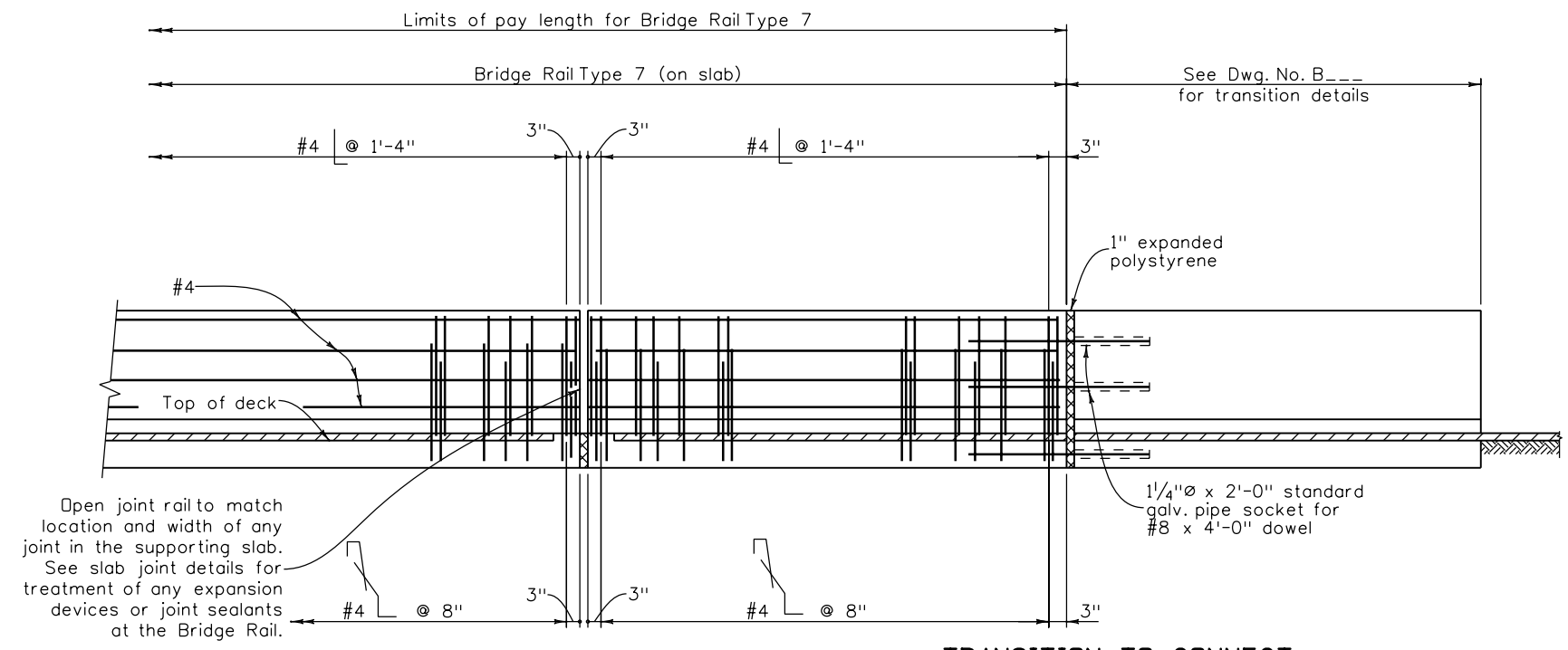
I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER ACCESS DOOR DETAILS			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset:	Bridge	Subset Sheets:	BR81 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 239

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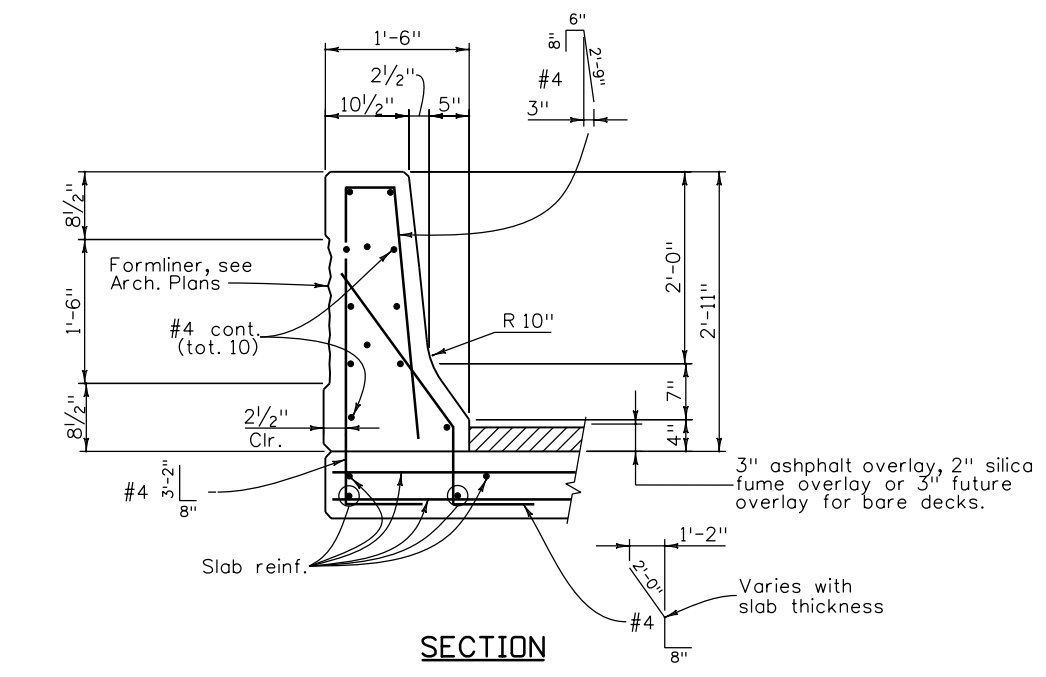
Revision Dates	(Preliminary Stage Only)

Design	Quantity
INITIAL	INITIAL
DATE	DATE
Designed By	Checked By
Checked By	Checked By

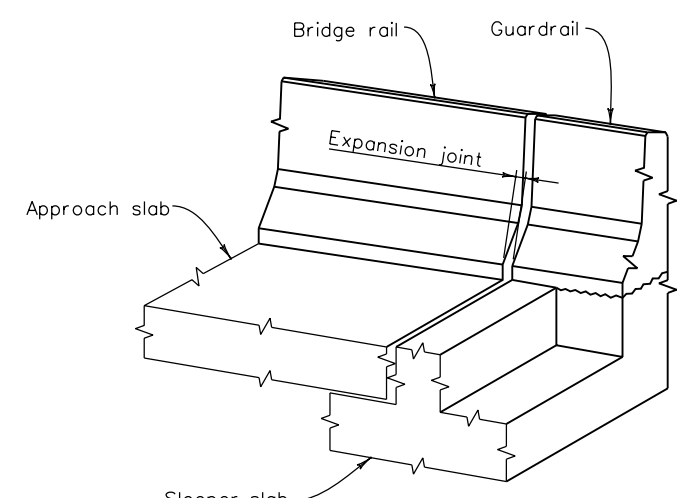


ELEVATION

**TRANSITION TO CONNECT
BRIDGE RAIL TYPE 7
TO GUARD RAIL**



SECTION



ISOMETRIC VIEW

#8 dowels between bridge rail and guardrail are not required when the guardrail is placed on the sleeper slab.

NOTES:

- Backfill wingwalls and retaining walls before barrier is placed.
- All bridge rail concrete shall be Class D.
- Longitudinal reinforcement shall stop at all expansion joints.
- Bridge rail shall be constructed plumb.
- See Std. M-606-1 and M-606-13 for Guard Rail Type 3 details and details of transition.
- Concrete and reinforcing steel shall conform to the requirements of Sections 601 and 602. Payment will be made under Item 606, Bridge Rail Type 7.
- The surface of the rail shall be tested with a 10 foot straightedge laid along the surface in the longitudinal direction. Deviation of the concrete surface from the straightedge shall be less than 1/4 inch plus allowance for roadway horizontal and vertical curvature, if any.

DESIGN DATA

Reinforced Concrete:
 Class D Concrete: $f'_c = 4,500$ psi
 Reinforcing Steel: $f_y = 60,000$ psi

INFORMATION ONLY

Description	Unit	Per Lin. Ft.
Concrete Class D	Cu. Yd.	0.12
Reinforcing Steel (Epoxy)	Lb.	16.2

Print Date: 10/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_BridgeRailType7.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

10822 Teller Drive Suite 330
 Littleton, CO 80127

Sheet Revisions		
Date:	Comments	Init.

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

**I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
BRIDGE RAIL TYPE 7**

Designer: G. Reese Structure F-16-XR
 Detailer: K. Soellner Numbers

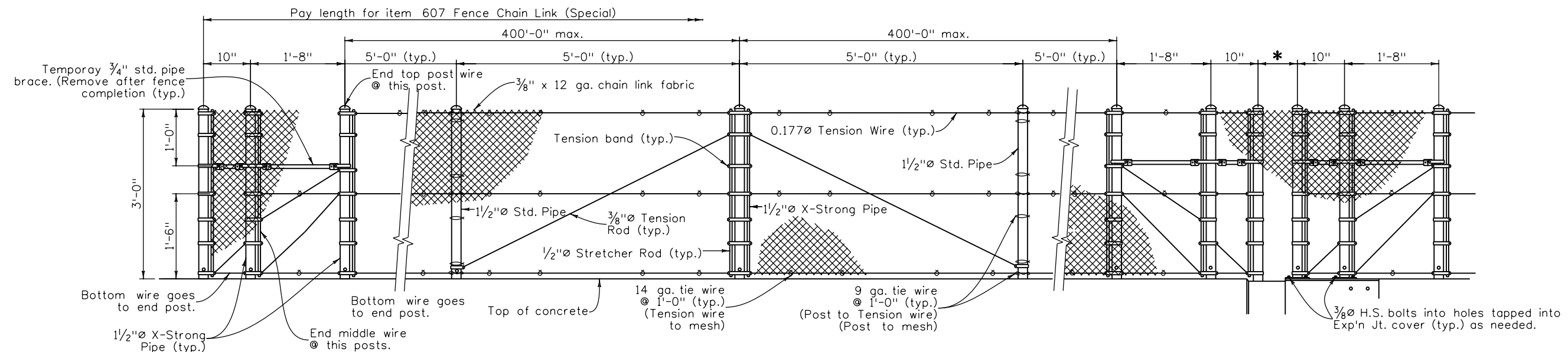
Sheet Subset: Bridge Subset Sheets: BR82 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 240

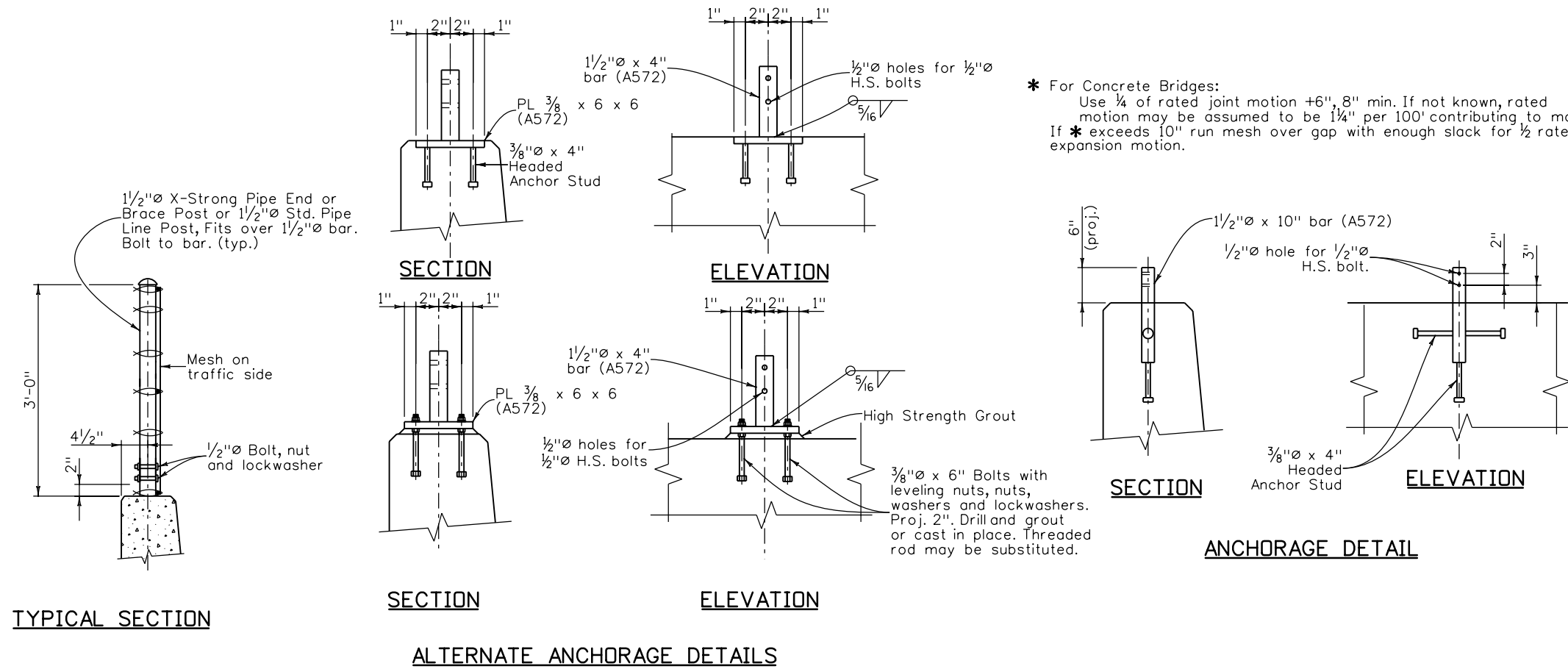
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Revision Dates (Preliminary Stage Only)	
Revision	Date

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



END POSTS LINE POST BRACE POST (spa. @ 400' max.) LINE POST END POSTS AT EXPANSION DEVICE



* For Concrete Bridges:
Use 1/4 of rated joint motion +6", 8" min. If not known, rated motion may be assumed to be 1/4" per 100' contributing to motion. If * exceeds 10" run mesh over gap with enough slack for 1/2 rated expansion motion.

NOTES
Anchorage assembly shall be galvanized after fabrication. If Vinyl Coating is specified, the fence assembly shall be Galvanized and Vinyl Coated after fabrication. Anchorages shall only be galvanized after fabrication.

Tension Rods and Wires shall have turnbuckles.
Post shall be vertical.
Pipe shall conform to ASTM A53 Type E or S, Grade B.


DESIGN DATA
Test Tension = 5400 lbs
Test with: Max Midbay deflection = 1/4" for Lateral Load of 160 lbs. on 1 ft². 1'-6" up @ center of bay.

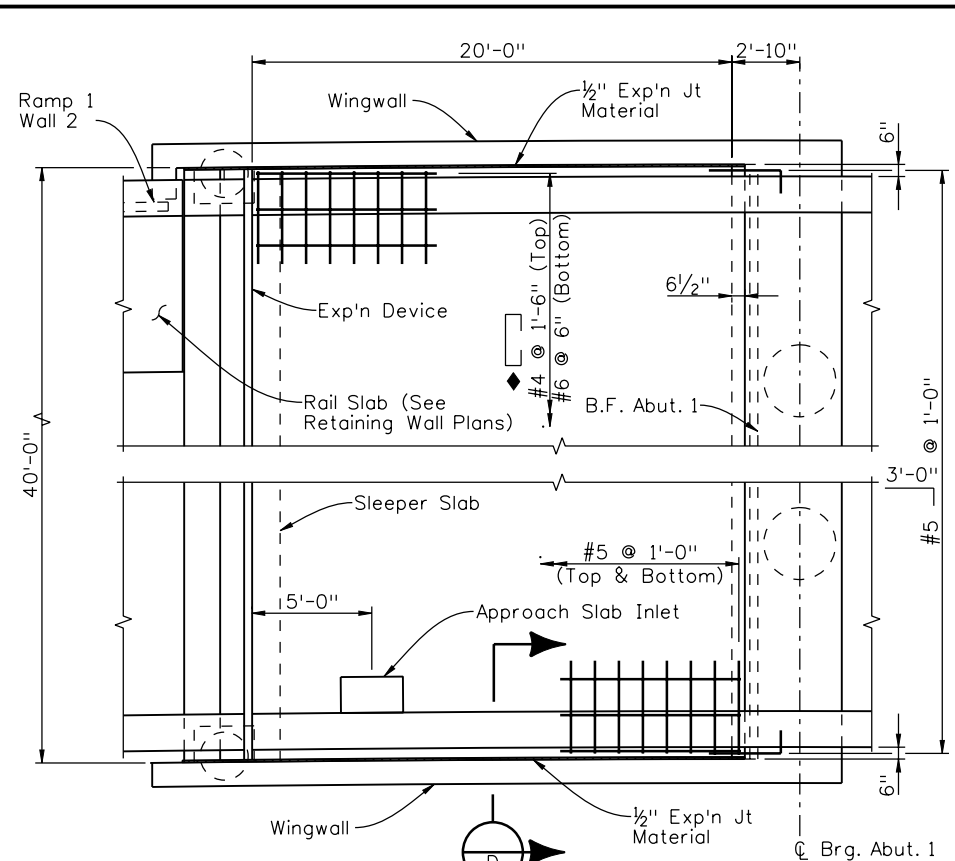
Live Load: wind load = 32 psf or snow impact load = 96 plf @ 1'-6" up
Structural Steel: Pipe f_y = 35,000 psi
ASTM A572 (GR 50) f_y = 50,000 psi

Standard Color Vinyl Coatings over Galvanized Wire	Munsell Color System No. (as per ASTM)
<input type="checkbox"/> Galvanized Only	None
<input type="checkbox"/> Brown	7YR 2.4/1.75
<input type="checkbox"/> Green	8.8G 2.63/5.8
<input checked="" type="checkbox"/> Black	1.8PB 1.26/0.5

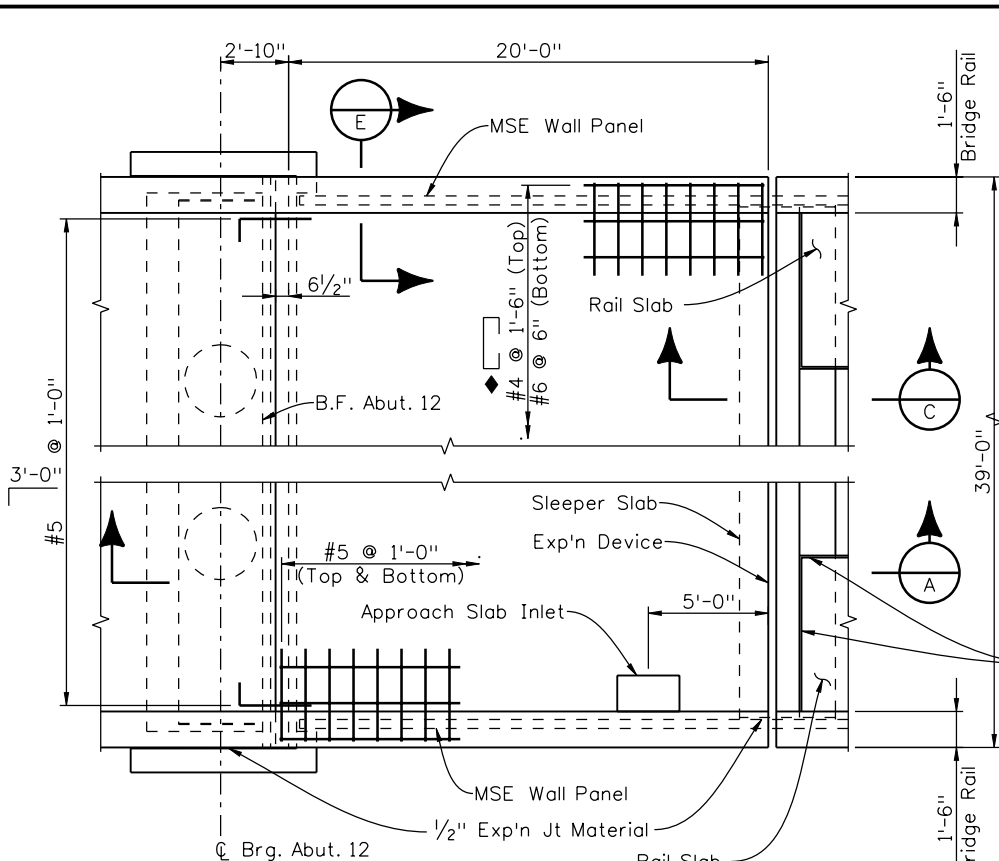
<input type="checkbox"/> Special Color Vinyl Coatings over Galvanized Wire	<input type="checkbox"/> Federal Color No.
	<input type="checkbox"/> Munsell Color System No.

If the specific color of coating is not marked and the Federal Color No. or the Munsell Color System No. is not given, vinyl coating is not required.

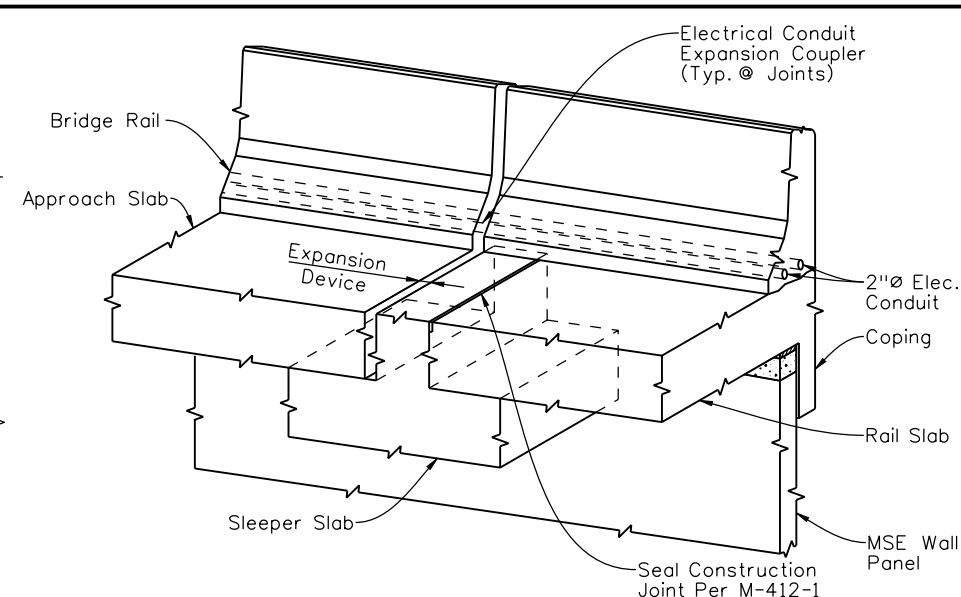
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File Name: 16311BRDG_PH2_F-16-XR_ChainLinkFence.dgn	Date:	Comments	Init.			No Revisions:	RAMP 1 FLYOVER	
Horiz. Scale: 1:1	Unit Information			 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	Revised:	Designer: G. Reese	Structure Numbers: F-16-XR	17783
Unit Leader Initials	Unit Leader Initials				Void:	Detailer: K. Soellner	Sheet Subset: Bridge	Subset Sheets: BR83 of 107



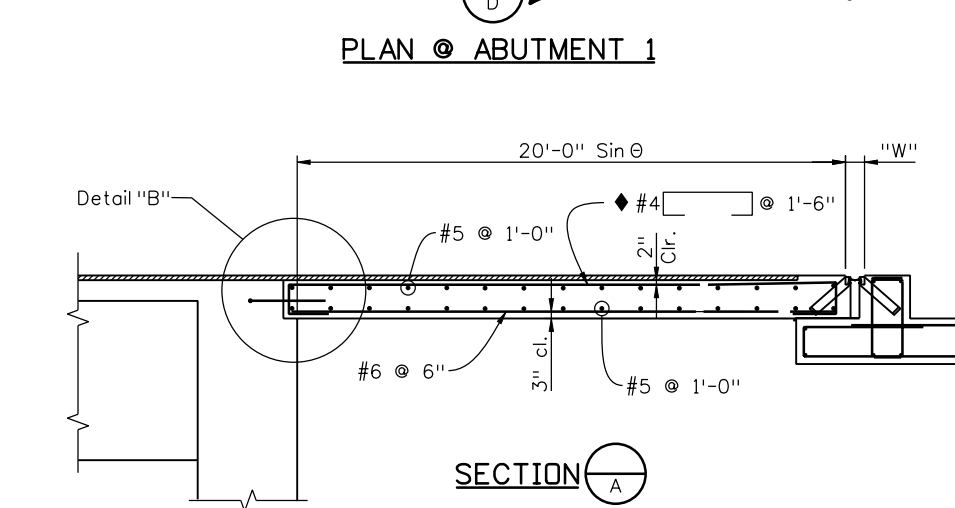
PLAN @ ABUTMENT 1



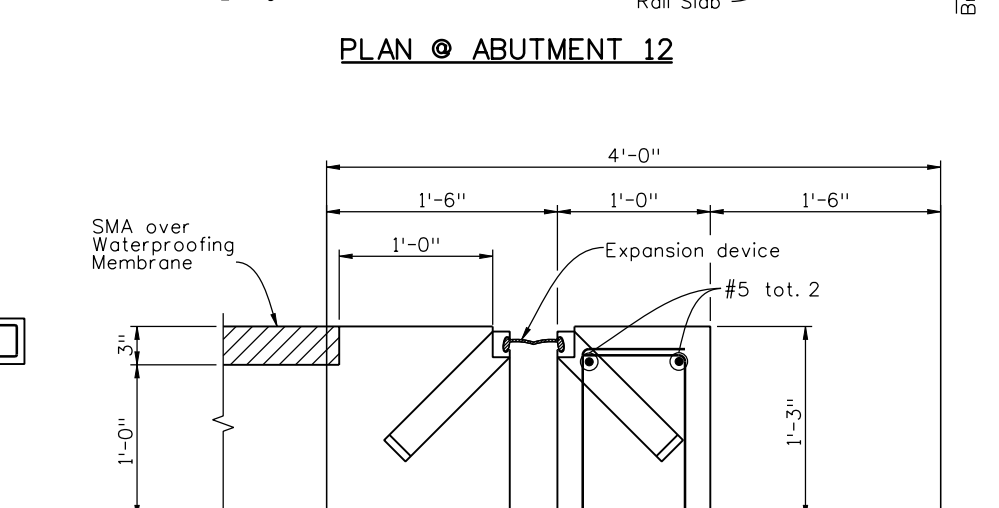
PLAN @ ABUTMENT 12



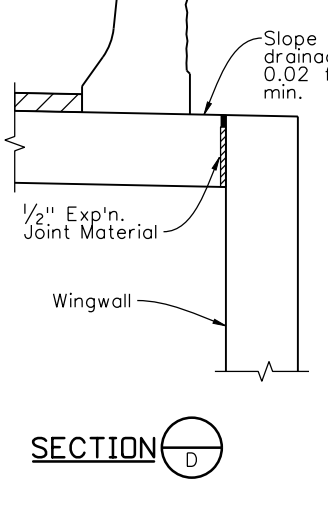
ISOMETRIC VIEW @ MSE WALL



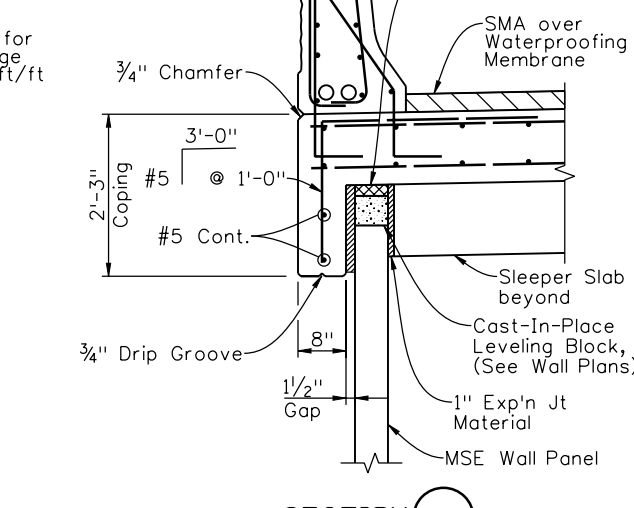
SECTION A



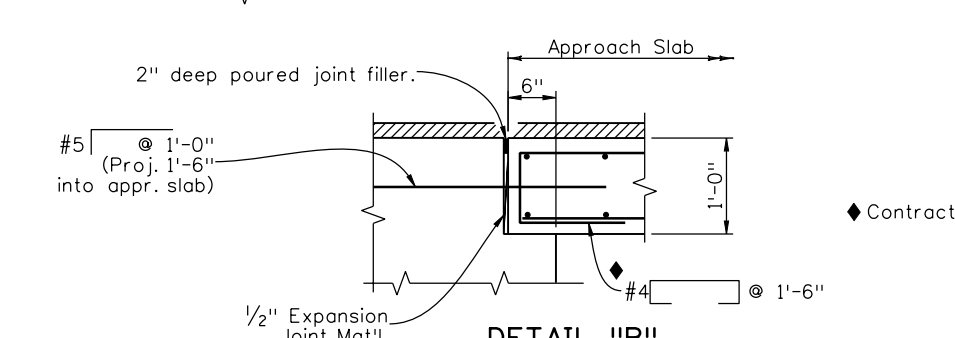
SECTION C



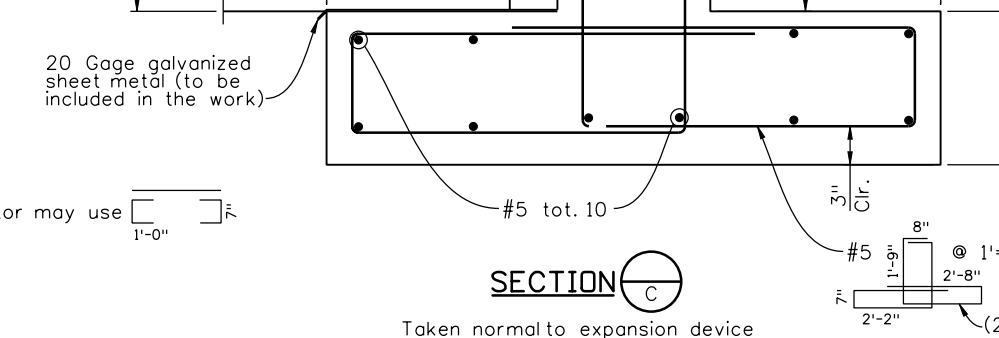
SECTION D



SECTION E



DETAIL "B"



Taken normal to expansion device

NOTES:

- Concrete Class D (Bridge) shall be used for approach slabs.
- 1/2" expansion joint material shall meet AASHTO Spec. M213.
- For expansion device details see Sht. BR87
- For rail details see Sht. BR82.
- Approach slab concrete shall be cured in accordance with the Specifications for Bridge Deck Concrete in Subsection 601.

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	GAR	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_Apr01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE			
RAMP 1 FLYOVER			
APPROACH SLAB DETAILS			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR84 of 107

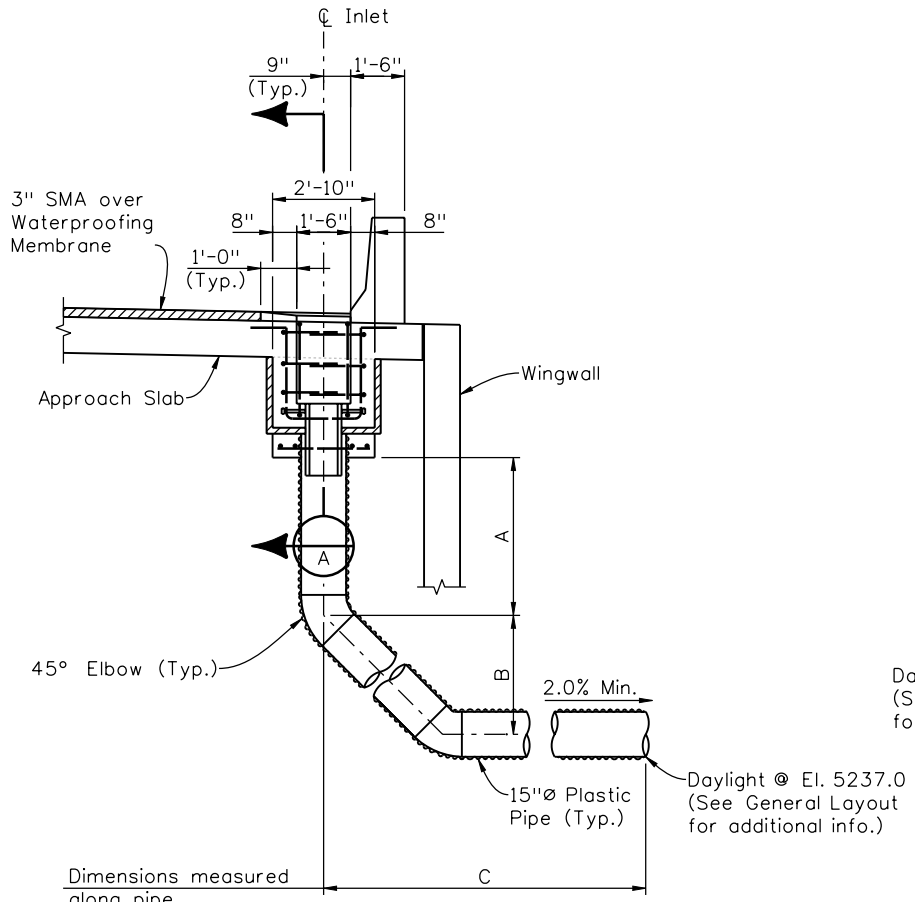
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BR 0252-407
17783
Sheet Number 242 A

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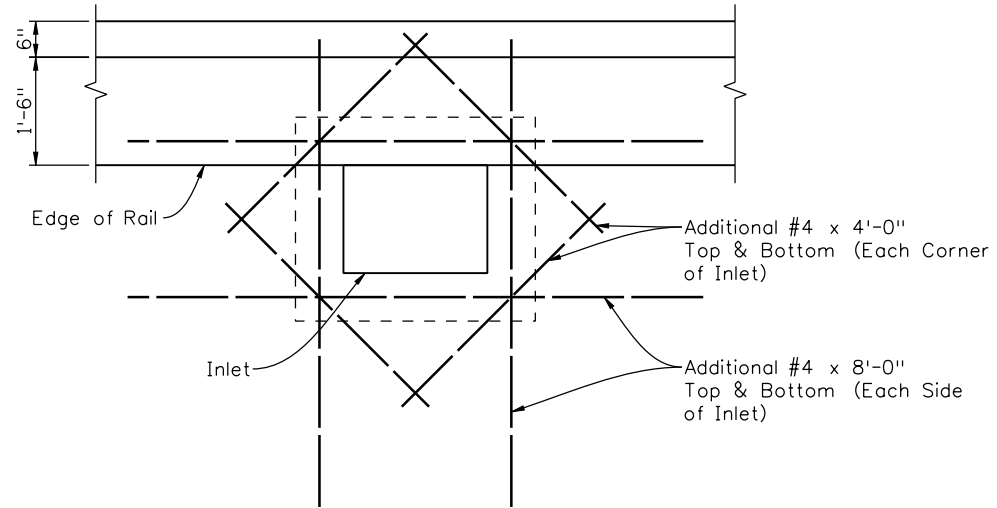
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Design	INITIAL	DATE	Quantities	INITIAL	DATE
Designed By	KJS	08/10	Quantities By		
Checked By			Checked By		



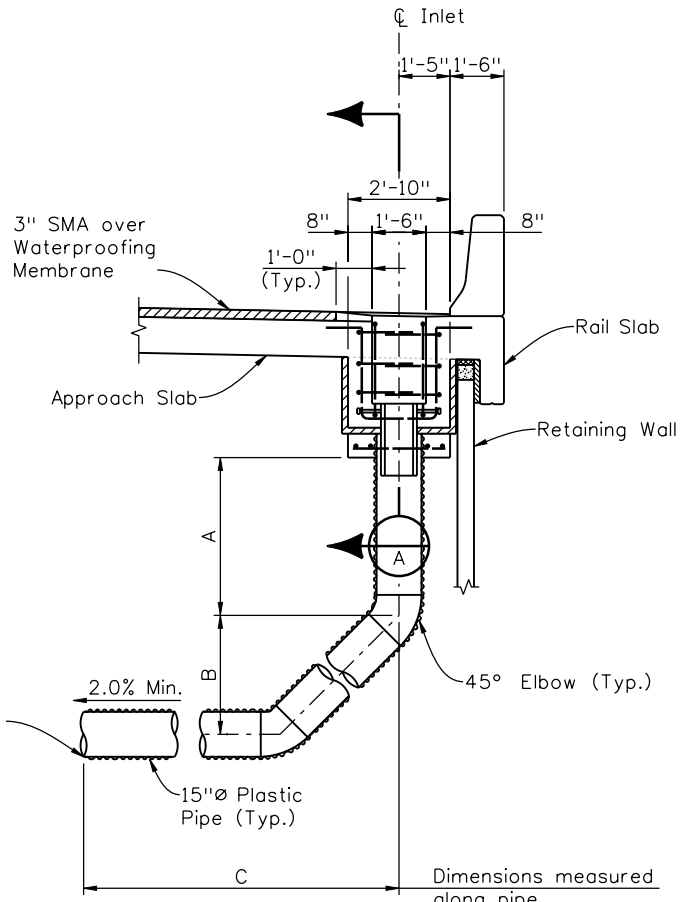
TYPICAL SECTION NEAR SOUTH APPROACH SLAB

(Looking North) (Dimensions measured perpendicular to Ramp 1 HCL except as noted otherwise)



ADDITIONAL SLAB REINFORCING AT INLETS

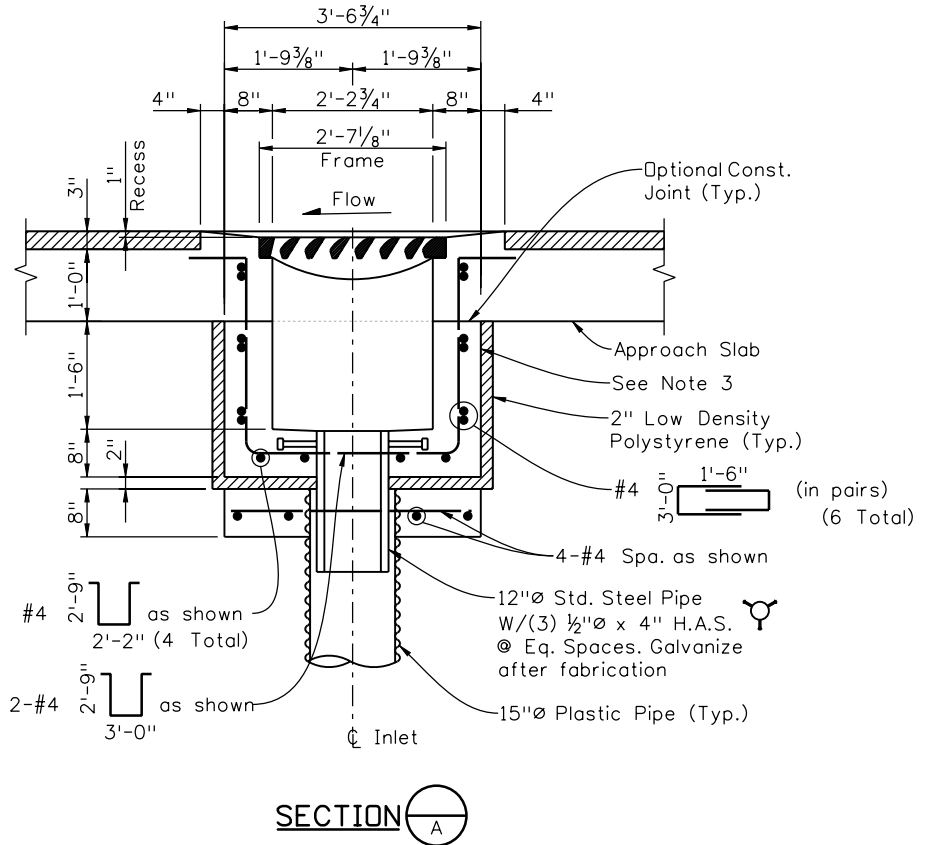
(Shown @ South Approach, North Approach Similar)



TYPICAL SECTION NEAR NORTH APPROACH SLAB

(Looking North) (Dimensions measured perpendicular to Ramp 1 HCL except as noted otherwise)

OUTLET PIPE DIMENSIONS			
INLET	A	B	C
Abut. 1	6'-0"	4'-0"	56'-0"
Abut. 12	14'-0"	5'-0"	87'-0"



NOTES:

1. Cut approach slab reinforcing as required for inlet opening. Paint cut ends of epoxy coated reinforcing with an approved coating.
2. Concrete shall be Class D.
3. Provide inlet grate as shown on Sheet BR86. Provide anchor bolts as shown on the Grate Installation Detail.
4. Grate to be installed during construction of inlet box with the vane grate bolted in place to the frame. The cost of the grate, grate frame, expn. joint material, expanded polystyrene, steel pipe and all miscellaneous items required to install the grate shall be included in the work.
5. For Grate & Frame Details, See Sheet BR86.
6. Plastic pipe shall conform to the requirements of AASHTO M294, Type S. Plastic pipe shall be joined by watertight coupling as recommended by the pipe supplier or as approved. All joints shall be mechanically restrained to prevent separation.
7. The cost of all materials needed to construct and install the approach slab inlet shall not be paid for separately, but shall be included in the Item 603, 15 Inch Plastic Pipe.

Print Date: 10/22/2010	0000
File Name: 16311BRDG_PH2_F-16-XR_AprDrain01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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Region 6 RLB

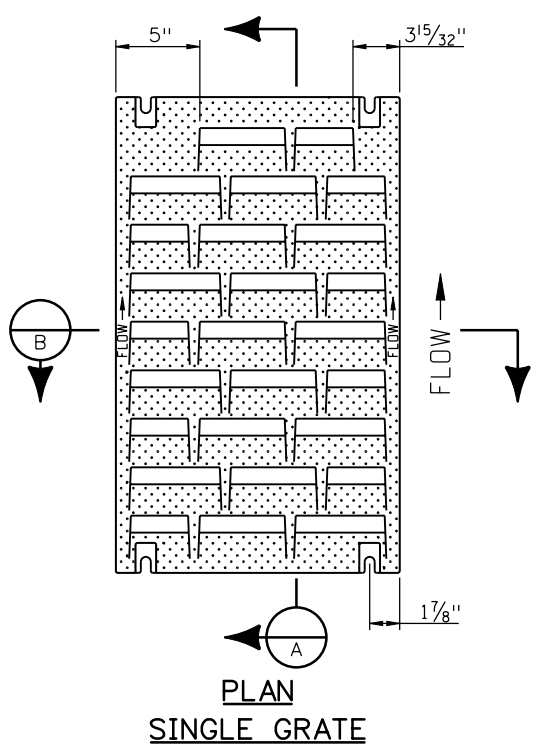
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No Revisions:
Revised:
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I-25/SANTA FE INTERCHANGE			
RAMP 1 FLYOVER			
APPR. SLAB INLET DETAILS (1 OF 2)			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR85 of 107

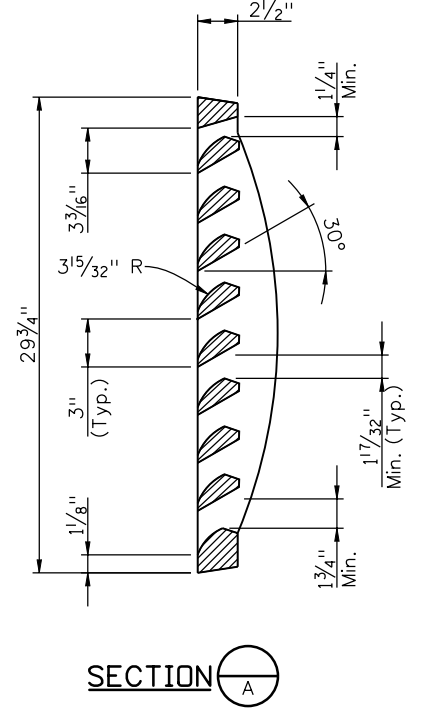
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17783
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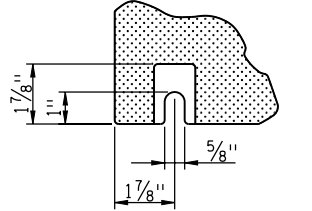
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Designed By	KJS	08/10	
Checked By			
Quantities	INITIAL	DATE	
Checked By			



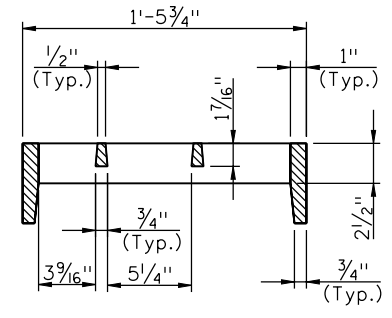
**PLAN
SINGLE GRATE**



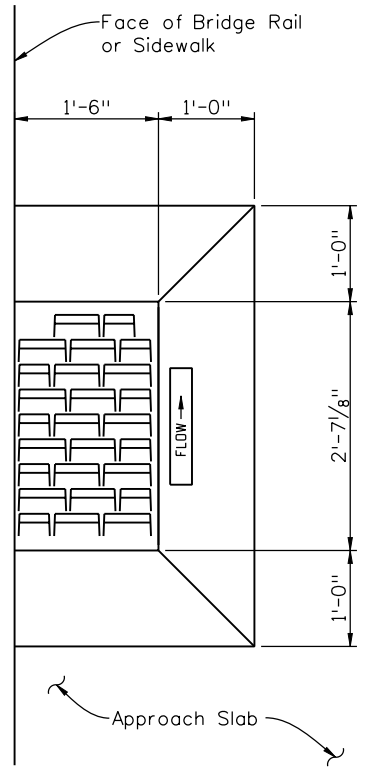
SECTION A-A



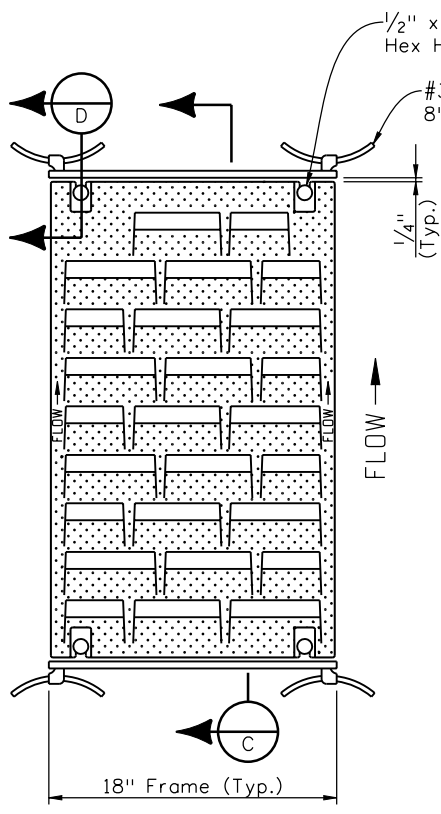
BOLT SLOT DETAIL
(Typ. @ each corner)



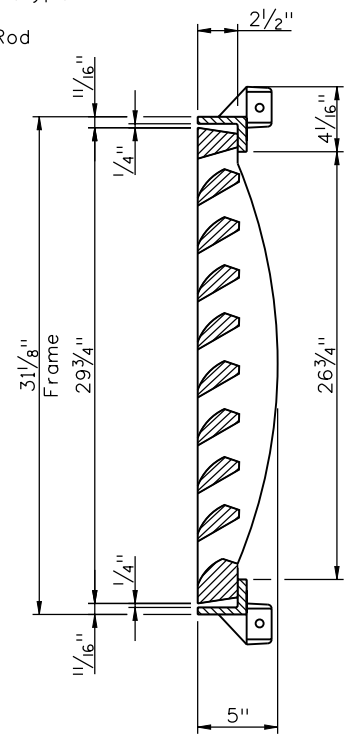
SECTION B-B



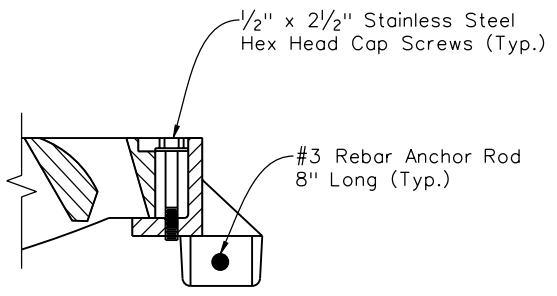
**TYPICAL VANE GRATE
INLET APRON**



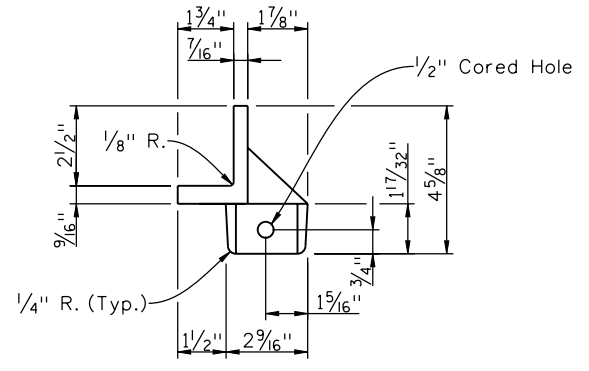
**PLAN
SINGLE GRATE WITH FRAME**



SECTION C-C



SECTION D-D



SECTION THRU FRAME

Print Date: 10/22/2010	0000
File Name: 16311BRDG_PH2_F-16-XR_AprDrain02.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	
10822 Teller Drive Suite 330 Littleton, CO 80127	

Sheet Revisions		
Date:	Comments	Init.

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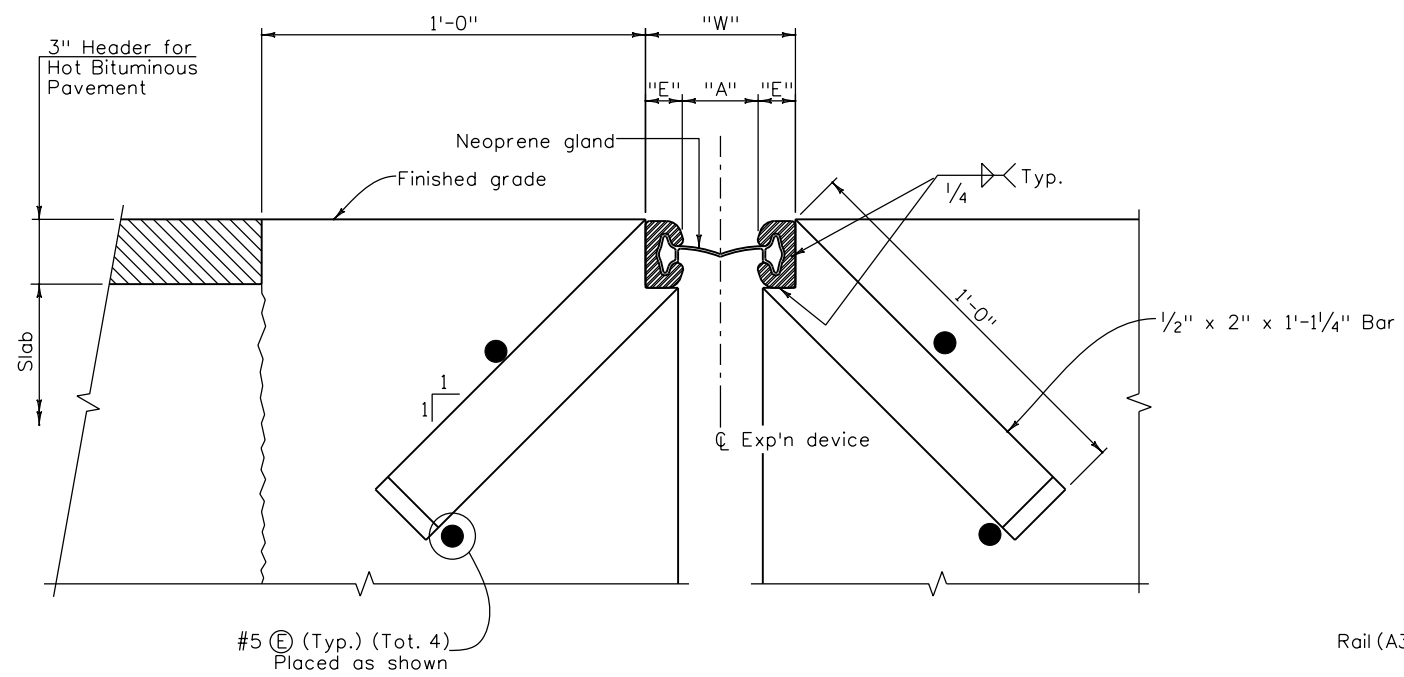
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed
No Revisions:
Revised:
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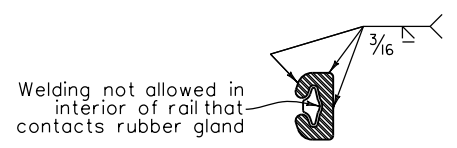
I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER			
APPR. SLAB INLET DETAILS (2 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Sheet Subset: Bridge		Subset Sheets:	BR86 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 244

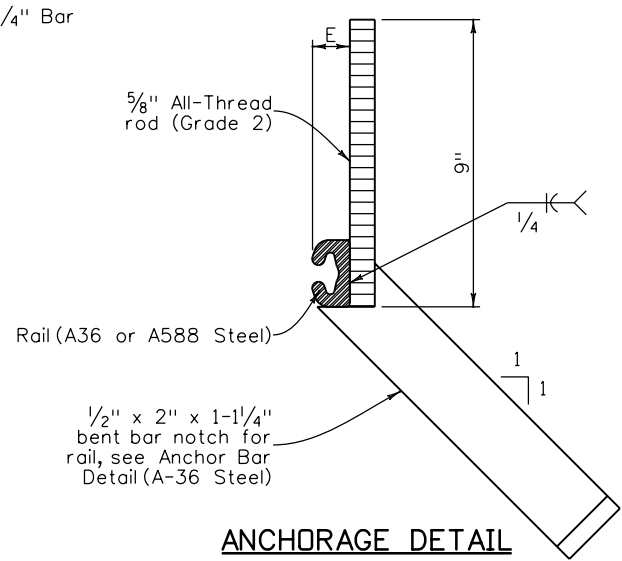


SECTION THRU STRIP SEAL BRIDGE EXPANSION DEVICE

Section taken perpendicular to ϕ exp'n device



RAIL FIELD SPLICE DETAIL



ANCHORAGE DETAIL

NOTES:

The expansion device shall be installed on grade, parallel to the slope and grade of the deck.

After the concrete has attained initial set, the attachments used to hold the expansion device assembly in it's proper position shall be removed.

Do not paint steel surfaces in contact with either concrete or seal.

"W" and "E" dimensions are dependent upon the particular expansion device supplied, and shall be shown on the working drawings.

See table for dimensions "A" and "W"; interpolate as needed. Do not install the gland until dimension "A" has opened up to at least 1/2 inch. Use section 518.10(b) in the standard specifications to determine the structure temperature.

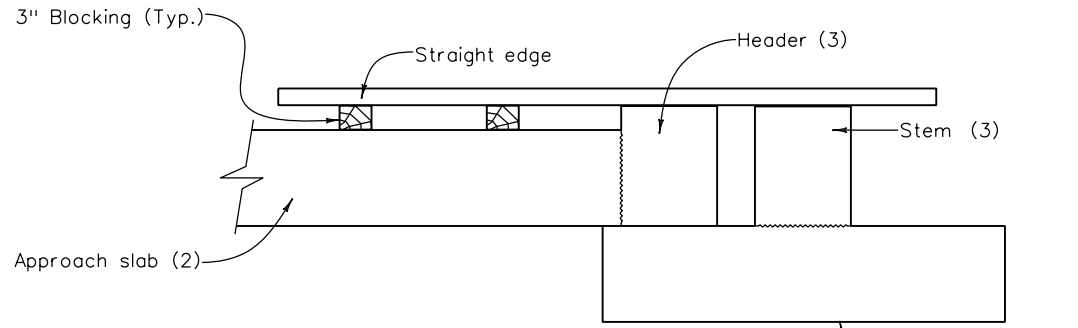
The neoprene gland shall be installed in one piece in accordance with section 518 of the standard specifications.

See section 518 in the standard specifications for water tight integrity testing requirements.

Set elevations at top of header and sleeper stem with the grade projection scheme.

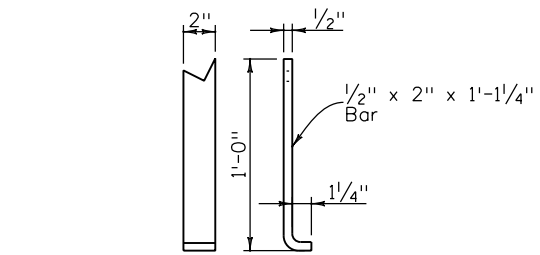
ACCEPTABLE EXPANSION DEVICE ALTERNATES

D.S. Brown A2R400-SSA2
WABO SE400 Type A
E-poxy Engineered Materials S400-A Strip Seal or CDDT Approved Equal



GRADE PROJECTION SCHEME

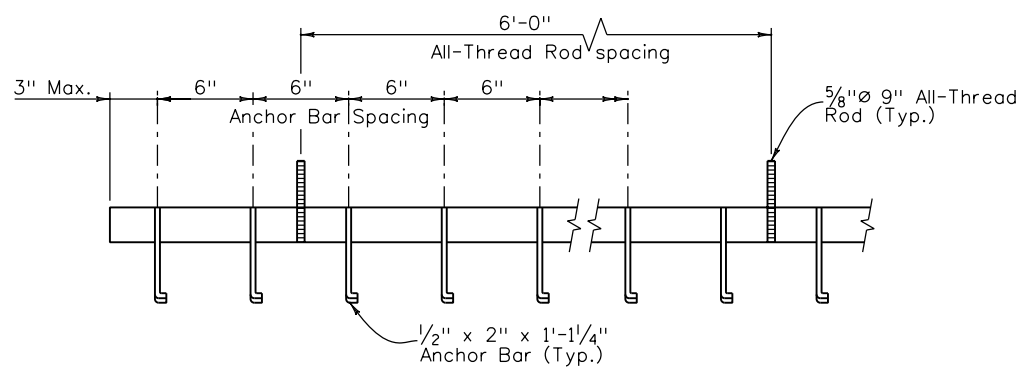
(Numbers in parenthesis refer to first, second and third concrete pours)



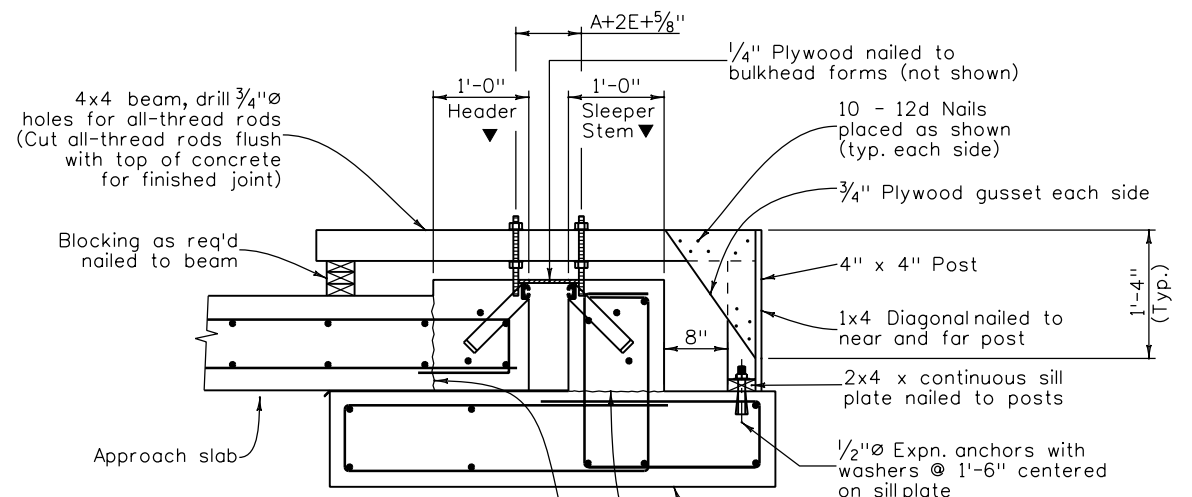
TYPICAL ANCHOR BAR DETAIL

STR. TEMP	"A"	"W"*
30° F	1 7/16"	4 1/16"
40° F	1 3/8"	3 7/8"
50° F	1 1/2"	3 11/16"
60° F	1"	3 1/2"
70° F	13/16"	3 5/16"
80° F	5/8"	3 3/8"
90° F	7/16"	2 15/16"
100° F	1/4"	2 3/4"

* For E = 1/4" (Min.)



ANCHOR BAR SPACING



NOTES:

1. Provide expansion device support as shown at 6'-0" intervals.
2. For reinforcing see approach slab details.

Concrete shall be placed after expansion device has been adjusted to proper grade and approved by the engineer using the Grade Projection Scheme.

MINIMUM SUPPORT BRACKET REQUIREMENTS

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	08/10	K/S	09/10	K/S	10/10
CHECKED BY	11/10	TF	11/10	TF	11/10

Print Date: 11/22/2010	File Name: 16311BRDG_PH2_F-16-XR_ExpnDevice01.dgn
Horiz. Scale: 1:1	Vert. Scale: As Noted
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	GAR

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed	No Revisions:
Revised:	Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER BR. EXP. DEVICE (0-4 INCH)(1 OF 2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner	Sheet Subset:	Bridge
Subset Sheets:		BR87 of 107	

Project No./Code	BR 0252-407
Sheet Number	245 A

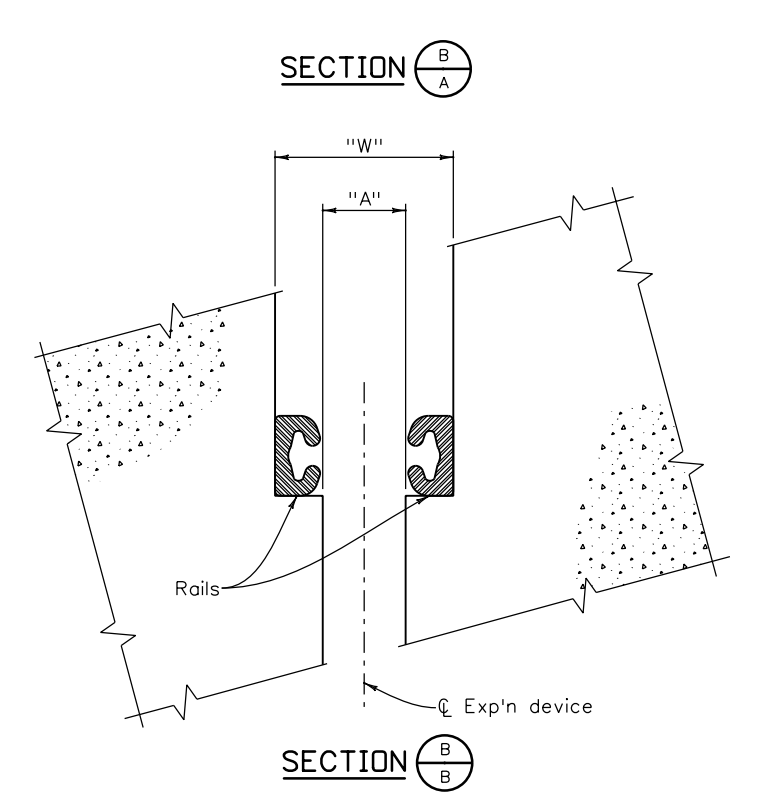
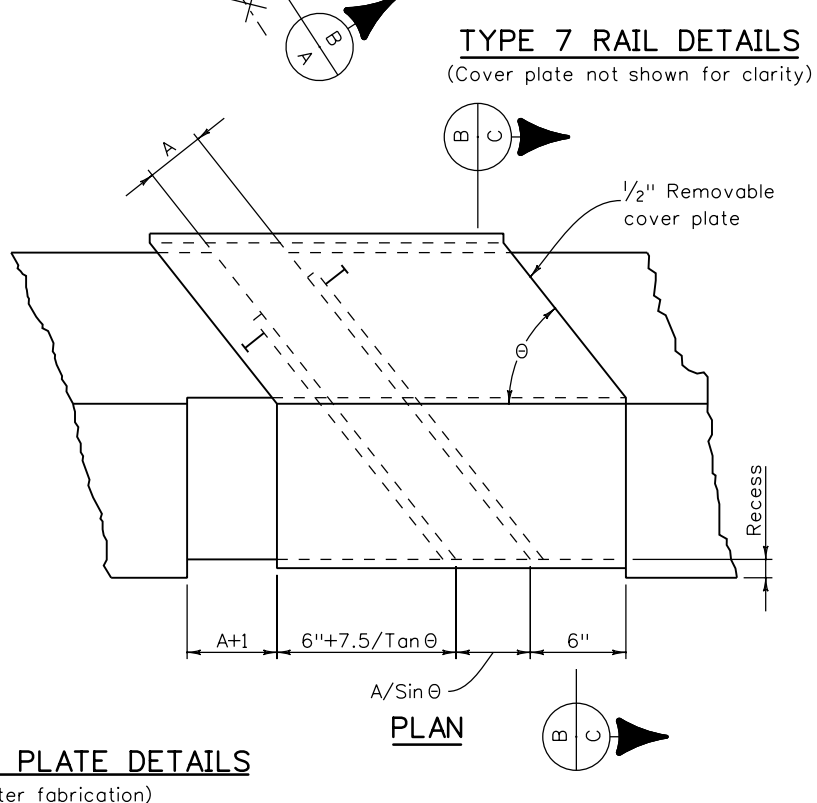
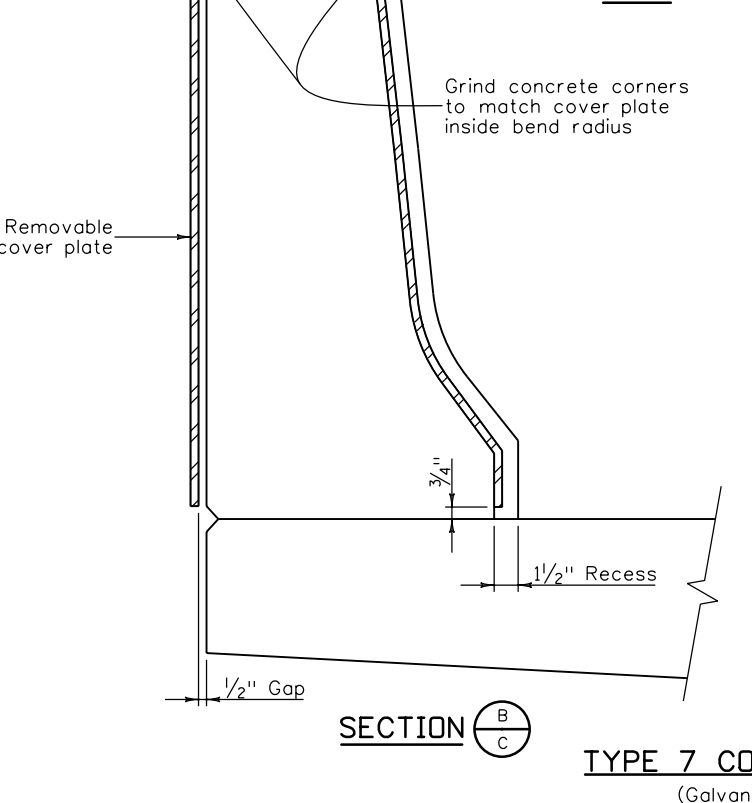
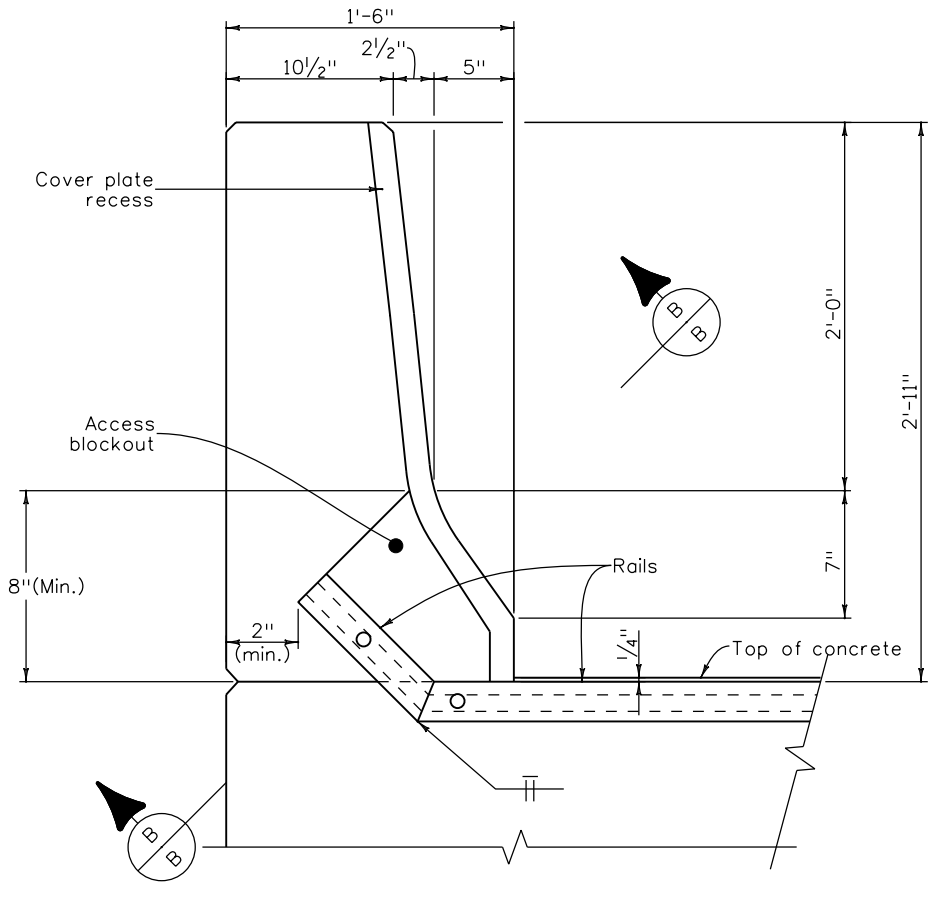
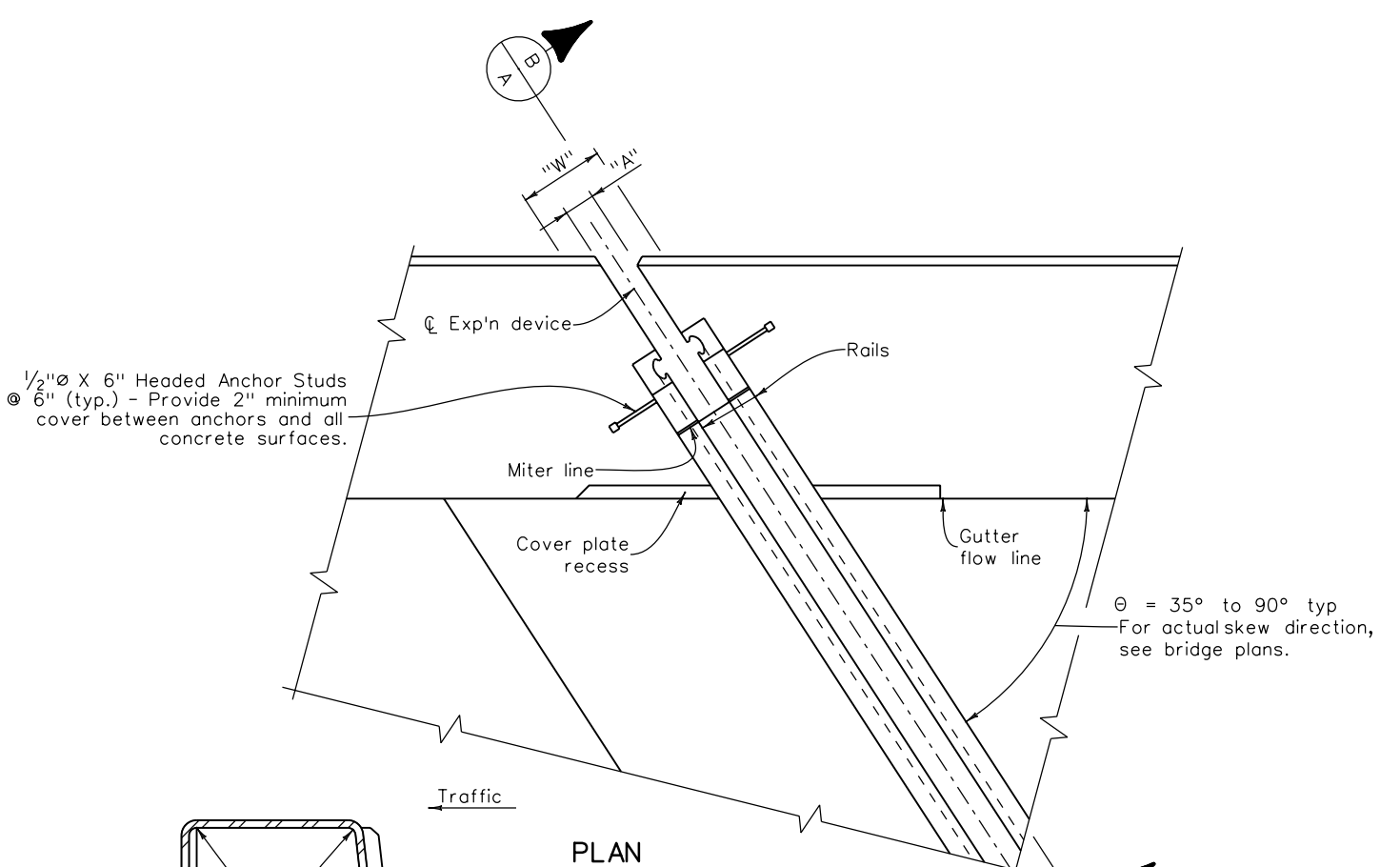


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 10/22/2010 C:\DOT-PDF\DraftQuality_XM.plt ctf

Revision Dates		Quantities	
Initial	Date	By	Checked

Design		Detail		Quantity	
Initial	Date	Initial	Date	By	Checked



TYPE 7 COVER PLATE DETAILS
(Galvanize after fabrication)

TYPE 7 RAIL DETAILS
(Cover plate not shown for clarity)

Print Date: 10/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_ExpnDevice02.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

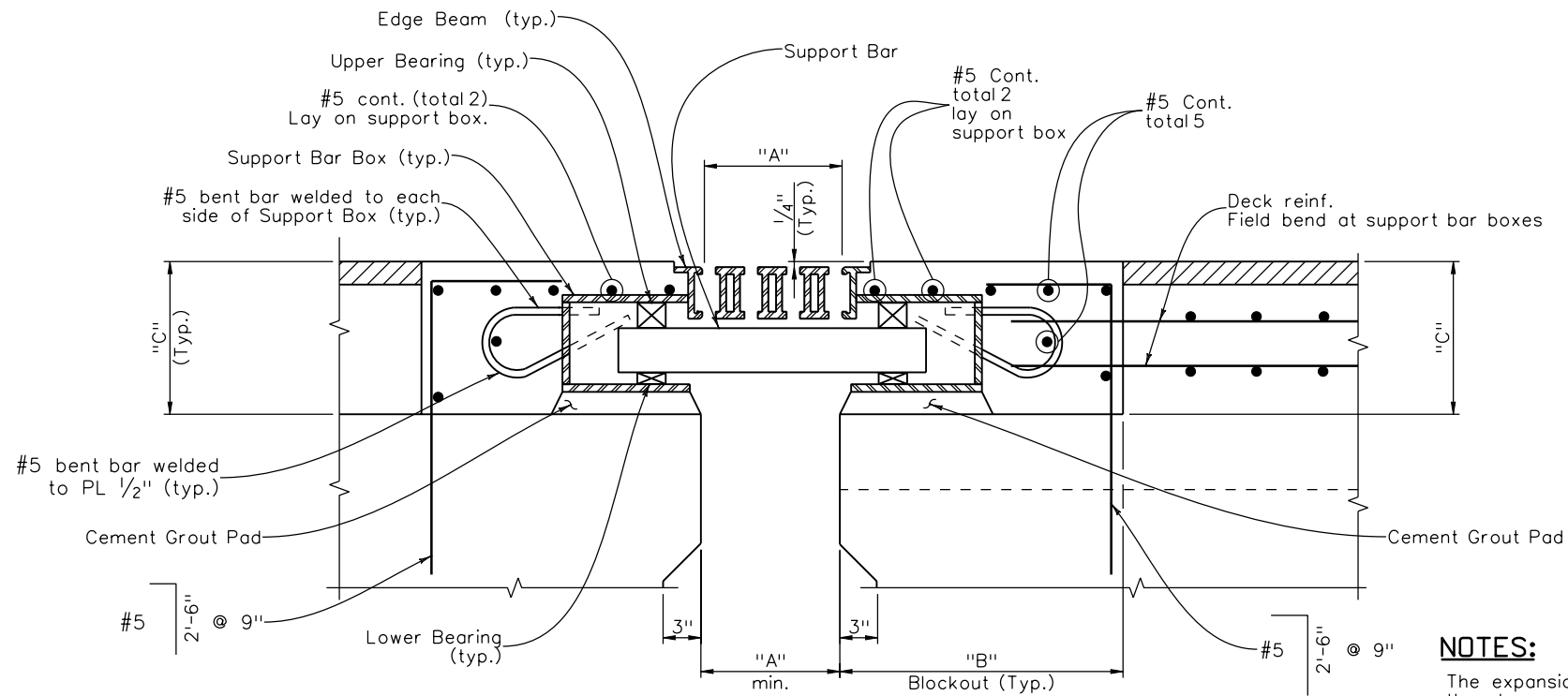
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

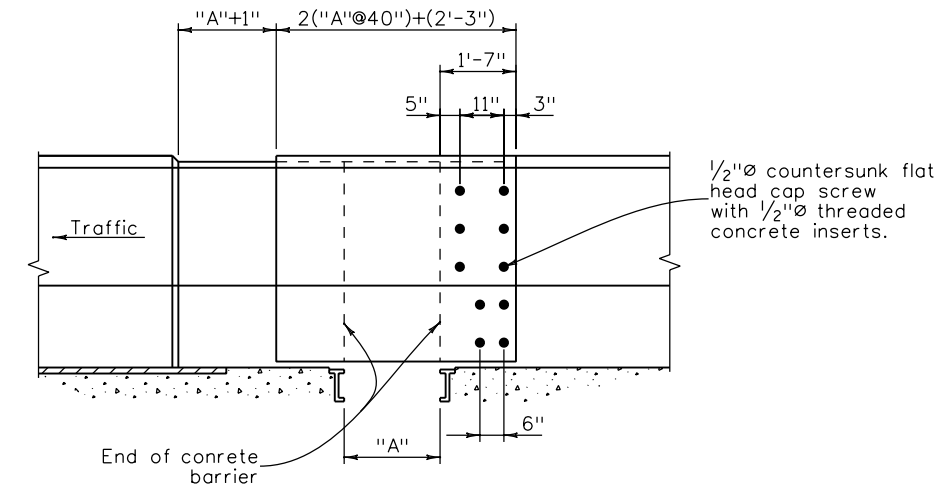
I-25/SANTA FE INTERCHANGE
RAMP 1 FLYOVER
BR. EXP. DEVICE (0-4 INCH)(2 OF 2)
 Designer: G. Reese Structure: F-16-XR
 Detailer: K. Soellner Numbers:
 Sheet Subset: Bridge Subset Sheets: BR88 of 107

Project No./Code
 BR 0252-407
 17783
Sheet Number 246





SECTION BR90 B



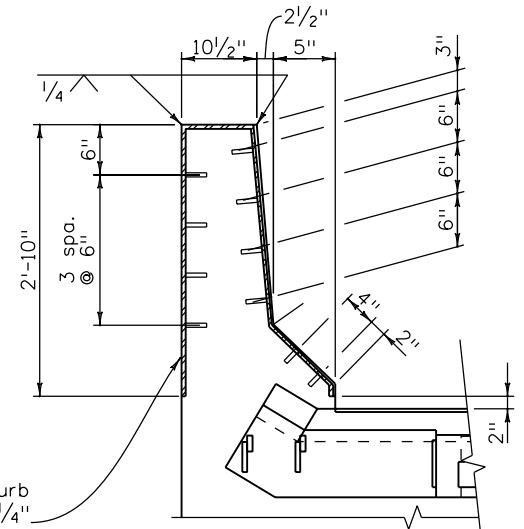
ELEVATION
(Traffic face of Bridge Barrier)

NOTES:

The expansion device shall be loosely in place prior to the placement of deck reinforcing and the deck pour.
Recess joint armor and edge beams 1/4 inch below finished concrete as shown.

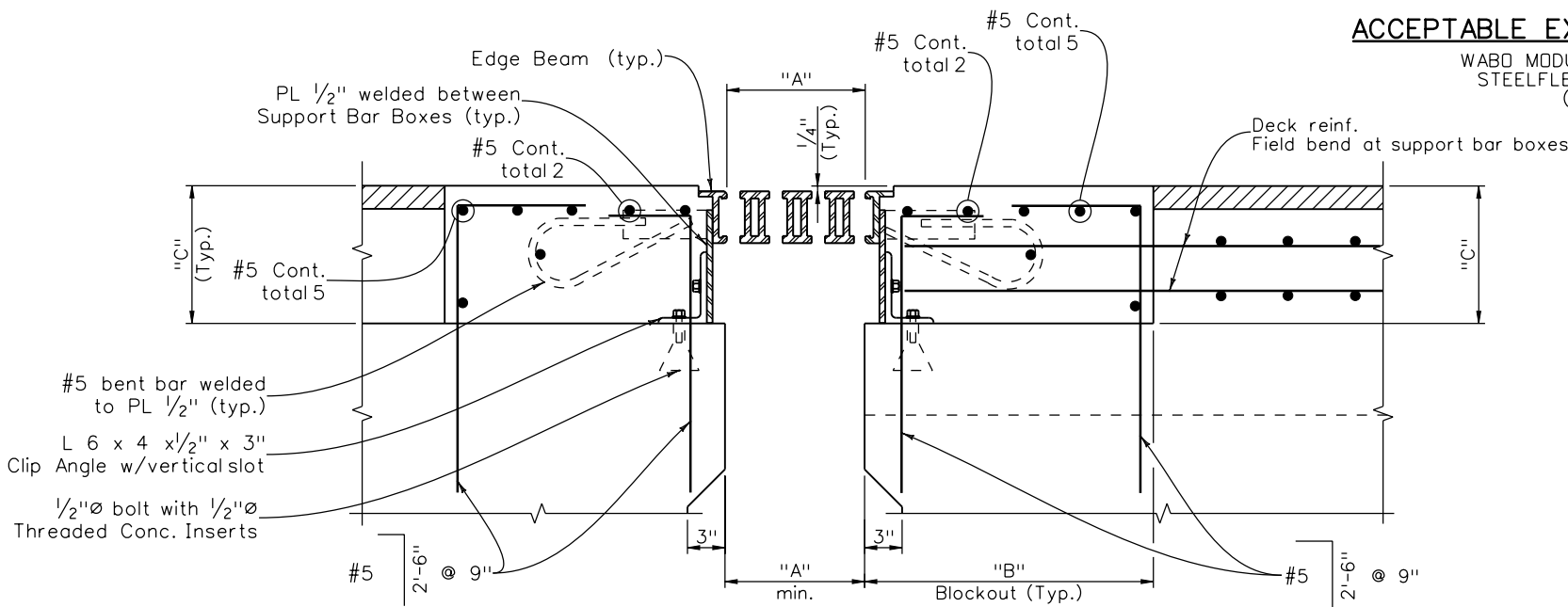
ACCEPTABLE EXPANSION DEVICE ALTERNATES

WABO MODULAR EXPANSION JOINT SYSTEM
STEELEX MODULAR EXPANSION JOINT
(OR APPROVED EQUAL)



TYPICAL SECTION

DIMENSIONS	LOCATION	
"A" Structure Temp.	Pier 4	Pier 8
30°	12 ⁵ / ₁₆ "	13 ⁷ / ₈ "
40°	12"	13 ⁵ / ₁₆ "
50°	11 ¹ / ₁₆ "	12 ³ / ₄ "
60°	11 ⁵ / ₁₆ "	12 ³ / ₁₆ "
70°	11"	11 ⁵ / ₈ "
80°	10 ¹ / ₁₆ "	11 ¹ / ₈ "
90°	10 ⁵ / ₁₆ "	10 ⁹ / ₁₆ "
100°	10"	10"
DIMENSIONS		
"B"	2'-3"	2'-3"
"C"	1'-4"	1'-4"



SECTION BR90 C

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
08/10	KJS	09/10	KJS	10/10	KJS
11/10	PRS	11/10	TF	11/10	TF
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 12/22/2010
 File Name: 16311BRDG_PH2_F-16-XR_ExpnDevice03.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	GAR	(R-1)
1/3/11	Misc. Revisions	GAR	(R-2)

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
 RAMP 1 FLYOVER
 BR. EXP. DEVICE (0-12 INCH)(1 OF 2)

Designer: G. Reese Structure Numbers: F-16-XR
 Detailer: K. Soellner
 Sheet Subset: Bridge Subset Sheets: BR89 of 107

Project No./Code
 BR 0252-407
 17783
 Sheet Number 247 B

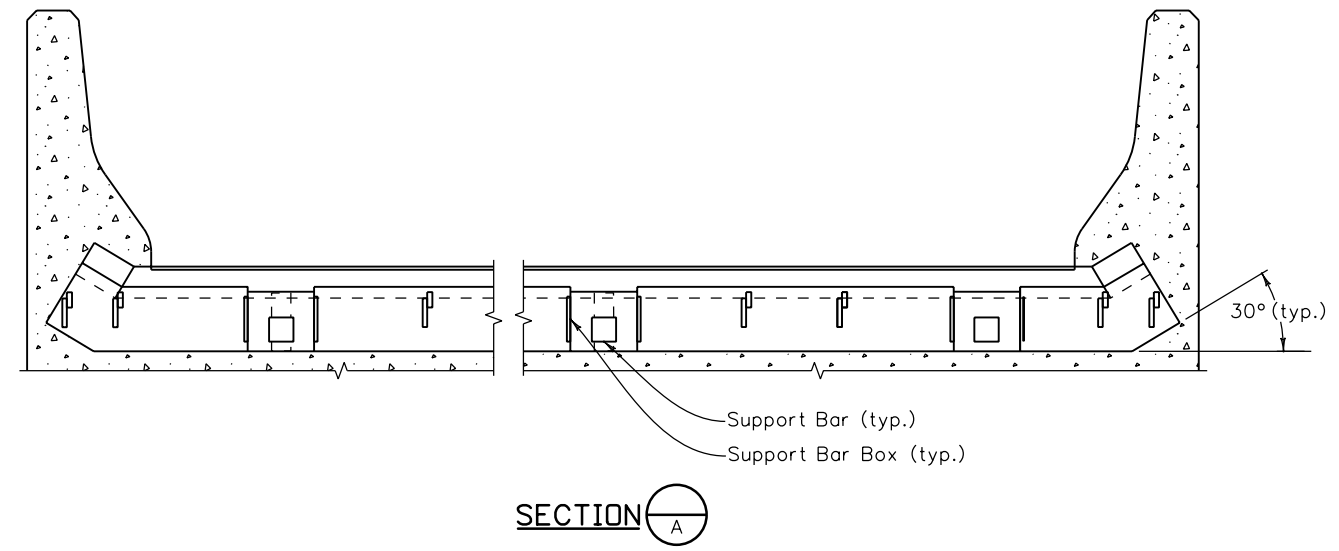
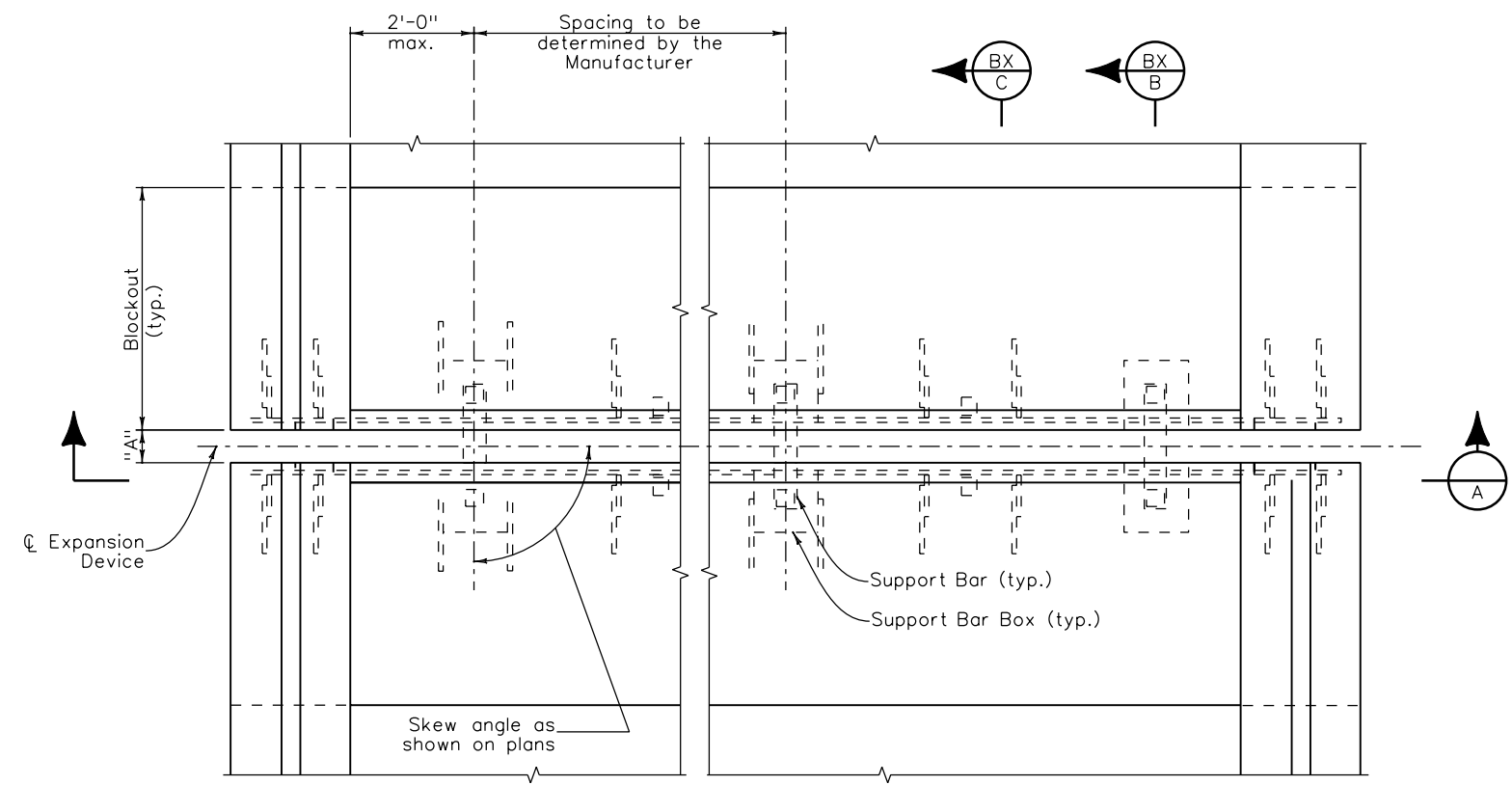


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Revision Dates		(Preliminary Stage Only)	
6/91	8/94	3/99	4/02
		11/99	3/07

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY
Designed By	Detailed By	Checked By	Checked By	Quantities By	Checked By
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY



NOTES:

Device shown is schematic only. Total number of support bars to be used as per Manufacturer's requirements.

Cover plates for concrete barriers not shown for clarity. For details, see Dwg. No. BR88.

Print Date: 10/22/2010	
File Name: 16311BRDG_PH2_F-16-XR_ExpnDevice04.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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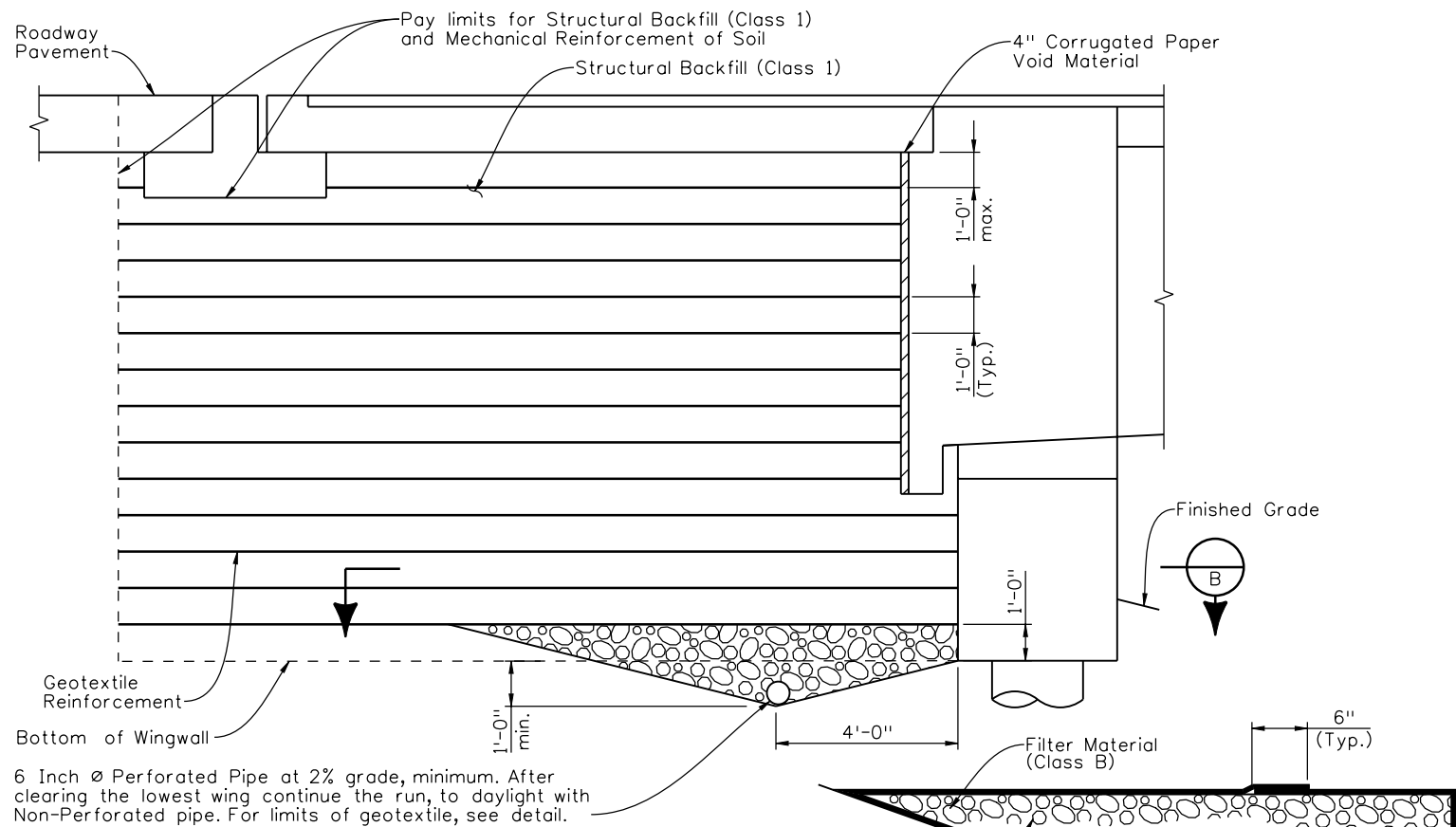
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Revised:
Void:

I-25/SANTA FE INTERCHANGE			
RAMP 1 FLYOVER			
BR. EXP. DEVICE (0-12 INCH)(2 OF 2)			
Designer:	G. Reese	Structure	F-16-XR
Detailer:	K. Soellner	Numbers	
Sheet Subset:	Bridge	Subset Sheets:	BR90 of 107

Project No./Code
BR 0252-407
17783
Sheet Number 248

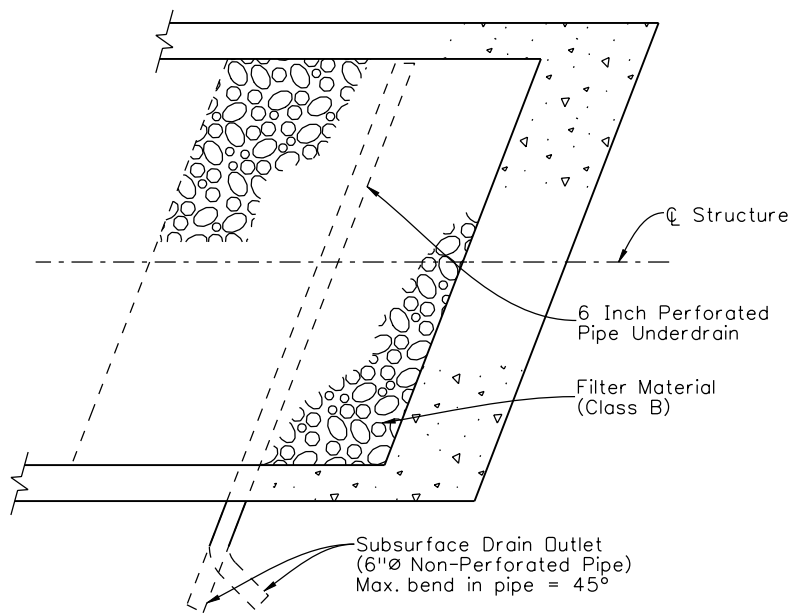
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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
PRS	11/10	TF	11/10	TF	11/10

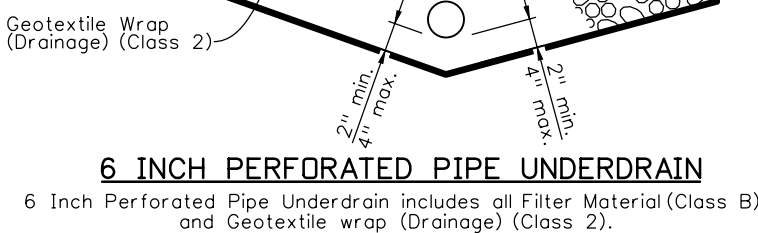


6 Inch \varnothing Perforated Pipe at 2% grade, minimum. After clearing the lowest wing continue the run, to daylight with Non-Perforated pipe. For limits of geotextile, see detail.

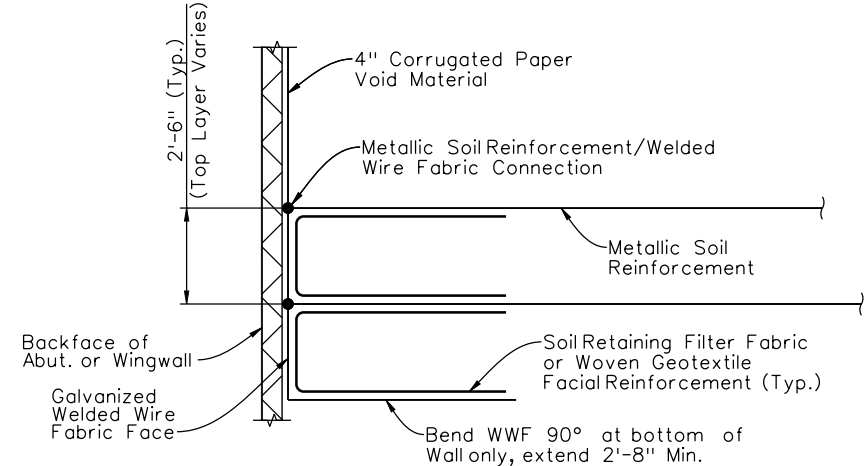
TYPICAL SECTION AT ABUTMENT 1



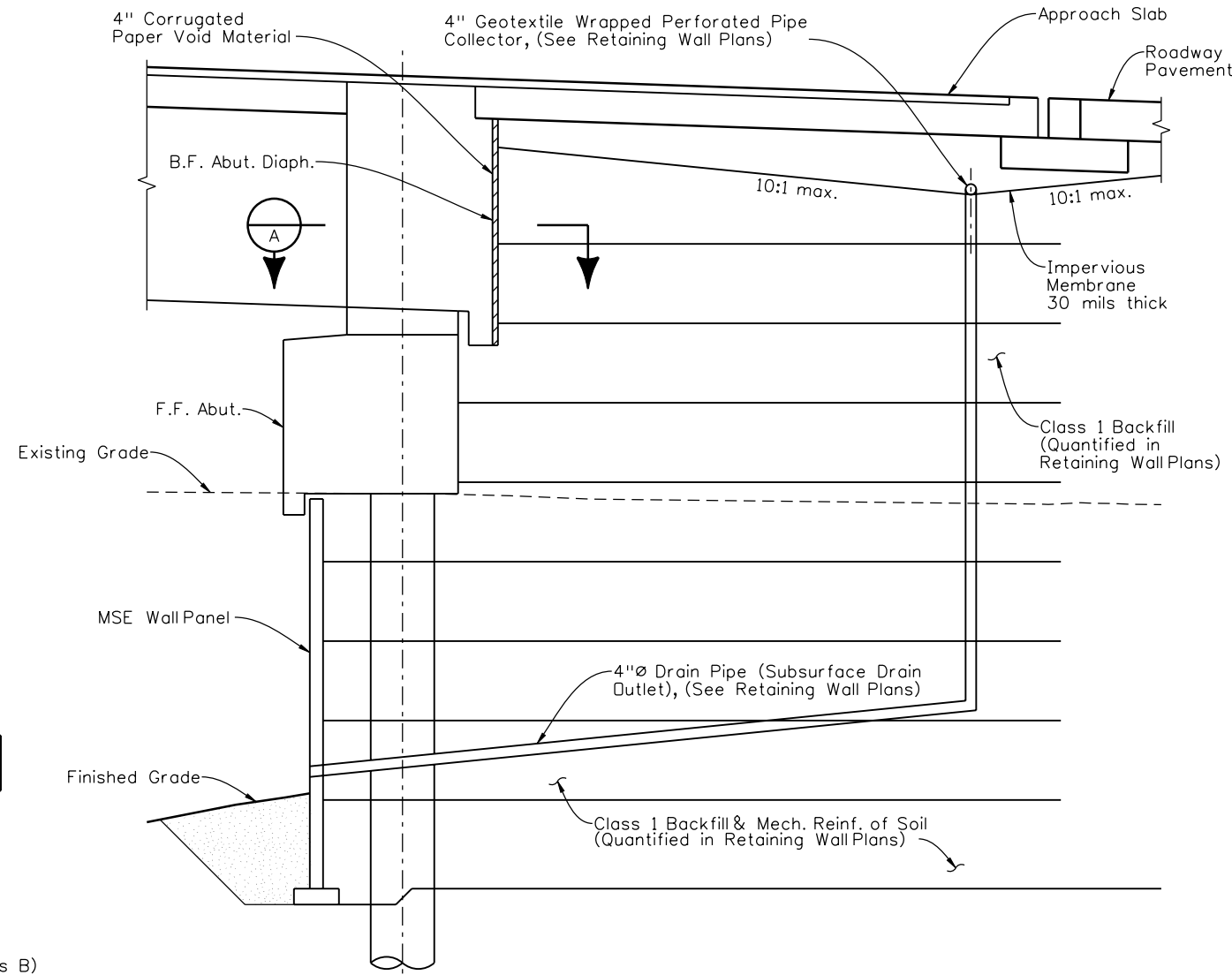
SECTION B



6 INCH PERFORATED PIPE UNDERDRAIN
6 Inch Perforated Pipe Underdrain includes all Filter Material (Class B) and Geotextile wrap (Drainage) (Class 2).



SECTION A



TYPICAL SECTION AT ABUTMENT 12

NOTES:

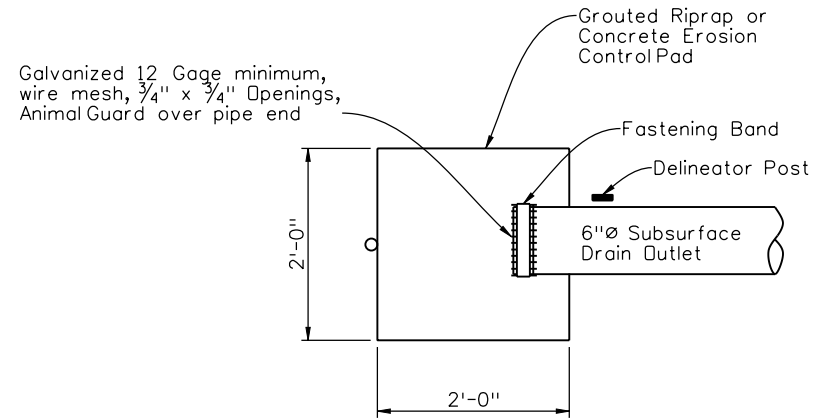
- Geotextile reinforcement shall be woven fabric with a Minimum Average Roll Value of 4800 lb/ft for installations with a gap and 2400 lb/ft for installations without a gap based on ASTM D4595.
- Geotextile Reinforcement shall be placed by alternating Machine Direction (MD) with Cross Machine Direction (XD) from layer to layer.
- The Geotextile Reinforcement wrap at Back Face of Abutment shall be pulled back slack free with its end anchored to soil underneath with staples or pins.
- Minimum splice of all Geofabric shall consist of 6" of overlap.
- Payment will be made under Item 206 Mechanical Reinforcement of Soil (cu.yd.) and Item 206 Structure Backfill (Class 1) (cu.yd.) and Shall include the cost for 6 inch \varnothing Perforated Pipe underdrain and Subsurface Drain Outlet (6 inch \varnothing Non-Perforated Pipe).
- Installation of Pipe Underdrain and Subsurface Drain Outlet will conform to the Construction requirements of section 605.03 and 605.06, respectively.

Print Date: 11/22/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_EXBF01.dgn	Date:	Comments	Init.			No Revisions:	RAMP 1 FLYOVER	
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	GAR	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Revised:	Designer: G. Reese	Structure Numbers	17783
Unit Information					Void:	Detailer: K. Soellner	F-16-XR	Subset Sheets: BR91 of 107
10822 Teller Drive Suite 330 Littleton, CO 80127	Region 6			RLB	MECH.STAB.EARTH BACKFILL (1 OF 2)			

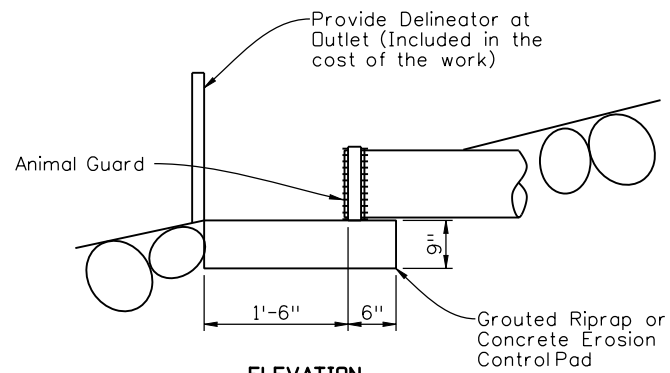
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Revision Dates	(Preliminary Stage Only)
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By		KJS	08/10	Quantities By	
Checked By		Checked By		Checked By	



PLAN



ELEVATION

OUTLET PIPE END TREATMENT

Print Date: 10/22/2010	0000
File Name: 16311BRDG_PH2_F-16-XR_EXBF02.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation



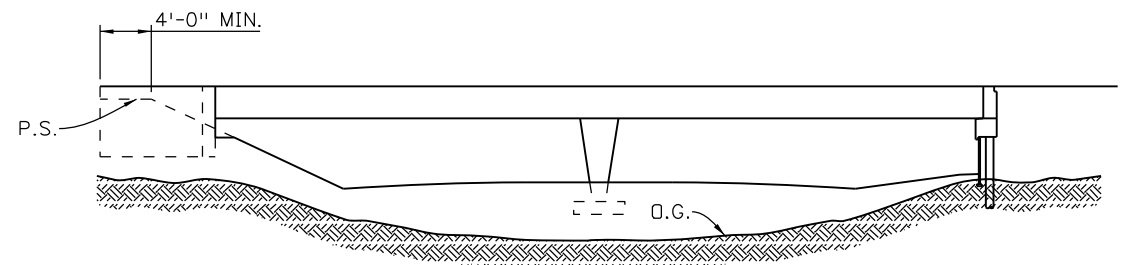
2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

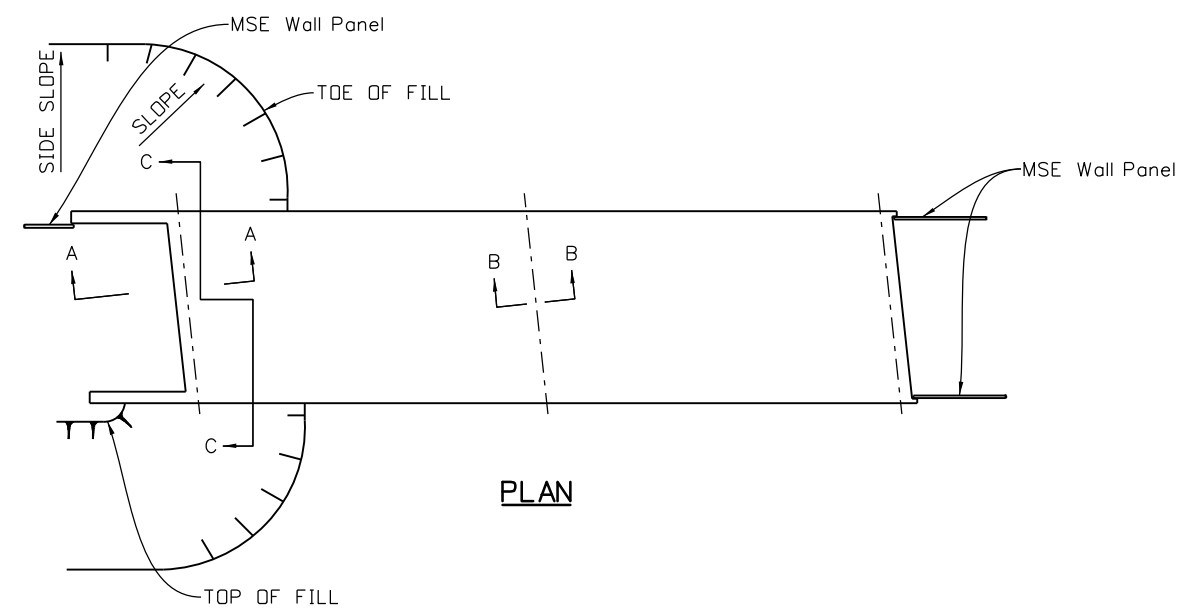
As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER MECH.STAB.EARTH BACKFILL (2 OF2)			
Designer:	G. Reese	Structure Numbers	F-16-XR
Detailer:	K. Soellner		
Sheet Subset:	Bridge	Subset Sheets:	BR92 of 107

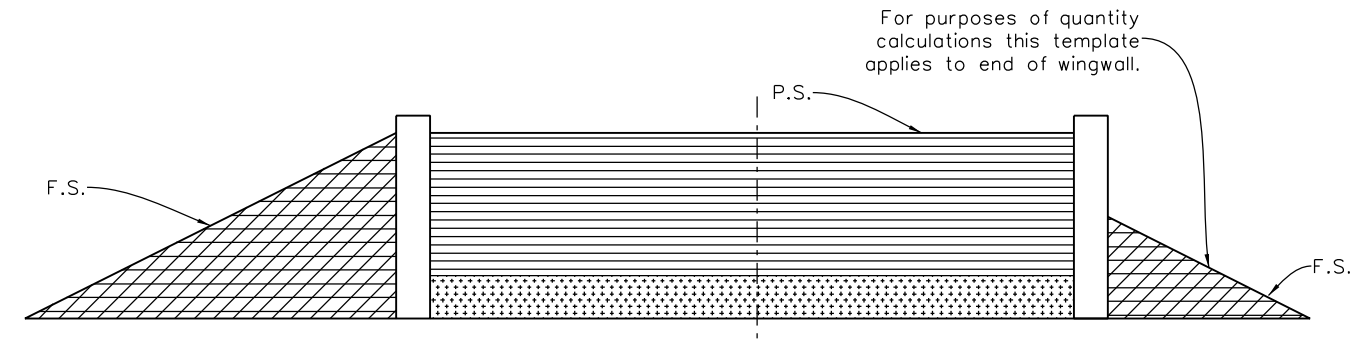
Project No./Code
BR 0252-407
17783
Sheet Number 250



ELEVATION



PLAN



NEAR END OF WINGWALL

NEAR B.F. OF ABUT.

SECTION C-C (BACKFILL)

GENERAL NOTES

Unless shown otherwise in the plans, this drawing gives the minimum extent of Structure Backfill. The Contractor may elect to extend the Structure Backfill beyond the limits shown here. Any additional Backfill beyond these limits will not be measured nor paid for.

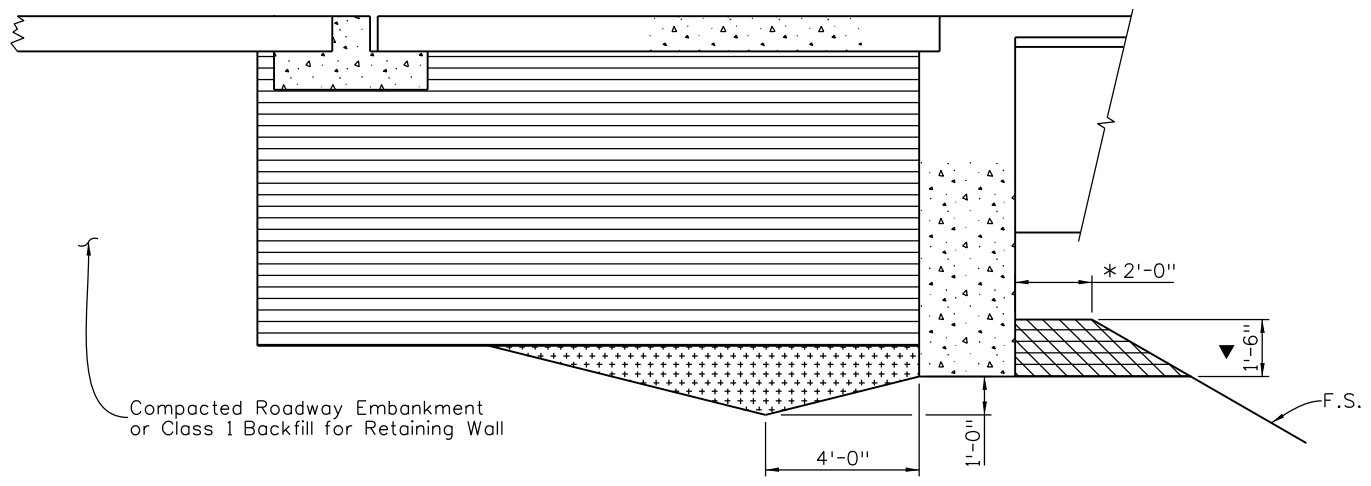
Structure footings which are located in rock shall be poured out to undisturbed rock, without forming, in conformance with 601.09.

ABBREVIATIONS

O.G. Original Ground
P.S. Planned Subgrade
F.S. Planned Finish Surface

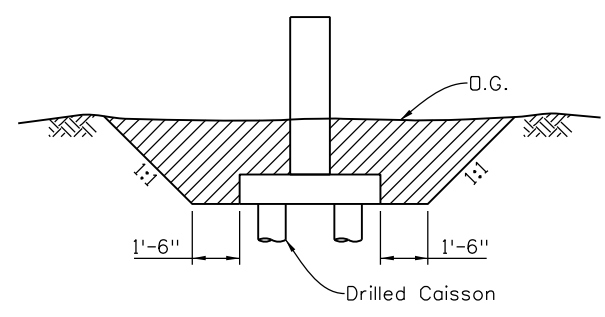
LEGENDS

- Structure Excavation
- Structure Backfill (Class 1) with Mechanical Reinforcement of Soil, as shown elsewhere in the Plans.
- Structure Backfill (Class 2)
- Filter Material

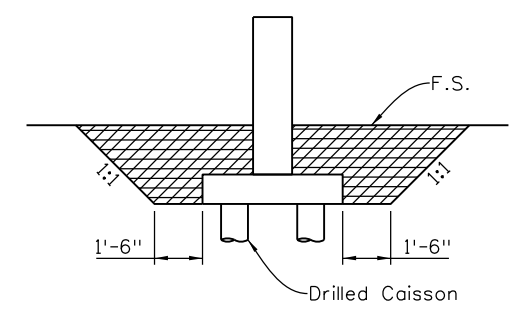


SECTION A-A
(with approach slab)

* = Minimum berm dimension.
▼ = Minimum embedment of abutment into Structure Backfill.



SECTION B-B (EXCAVATION)



SECTION B-B (BACKFILL)

Print Date: 10/27/2010		Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER EXCAVATION & BACKFILL DETAILS	Project No./Code
File Name: 16311BRDG_PH2_F-16-XR_EXBF03.dgn		Date: Comments Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	Designer: G. Reese Structure Numbers: F-16-XR	BR 0252-407
Horiz. Scale: 1:1 Vert. Scale: As Noted				Revised:	Detailer: K. Soellner	17783
Unit Information Unit Leader Initials				Void:	Sheet Subset: Bridge Subset Sheets: BR93 of 107	Sheet Number 251
10822 Teller Drive Suite 330 Littleton, CO 80127			RLB			

soellner 7:02:49 AM K:\08276\16311\Phase 2\Bridg\Drawings\16311BRDG_PH2_F-16-XR_EXBF03.dgn
 10/27/2010 C:\DOT-Default\Printer_XM.plt;fg

DESCRIPTION

Units: feet;
 Project: BR 0252-407; Subaccount: 17783;
 Designer: J. JOHNSON; Detailer: FHU;
 Location: DENVER;
 Ramp 1 Flyover - I-25/Santa Fe Interchange
 Top of Deck Elevations

HORIZONTAL ALIGNMENT DATA

PC	110+19.7704	T	361.0853	DELTA	20 20 55.15 RT	Dc	2 50 51.73	RADIUS	2012.000000
PI	113+80.8557	Lc	714.5638						
PT	117+34.3342	T	361.0853						

VERTICAL ALIGNMENT DATA

ELEVATION AT PI	ELEVATION AT GRADE	STATION	ELEVATION AT GRADE	ELEVATION AT PI	PERCENT GRADE
		115+42.5000	PC	5271.6694	5.000000
		118+80.0000	PI	5281.4044	5288.5444
		122+17.5000	PT	5276.8595	-3.462200

TABLE OF ROADWAY CROSS-SLOPES (SUPERELEVATION: E = -NC-)

STATION (ON TANGENT)	SLOPE LEFT	SLOPE RIGHT	VC LENGTH
	0.0000	0.0000	75.00 (MAX)
110+19.7700	0.0200	-0.0200	75.00 -U-
111+69.7700	0.0300	-0.0300	75.00 -U-
115+84.3300	0.0300	-0.0300	75.00 -U-
117+34.3300	0.0200	-0.0200	75.00 -U-
119+56.9000	0.0200	-0.0200	75.00 -U-
121+06.9000	-0.0200	0.0200	50.00 -U-
121+56.9000	-0.0340	0.0340	50.00 -U-
124+43.6400	-0.0340	0.0340	50.00 -U-
124+93.6400	-0.0200	0.0200	50.00 -U-
126+43.6400	-0.0200	0.0200	75.00 -U-
135+99.0200	0.0200	-0.0200	75.00 -U-

OFFSET PROFILE CONTROL TO PIVOT POINT = 0.0000 FEET

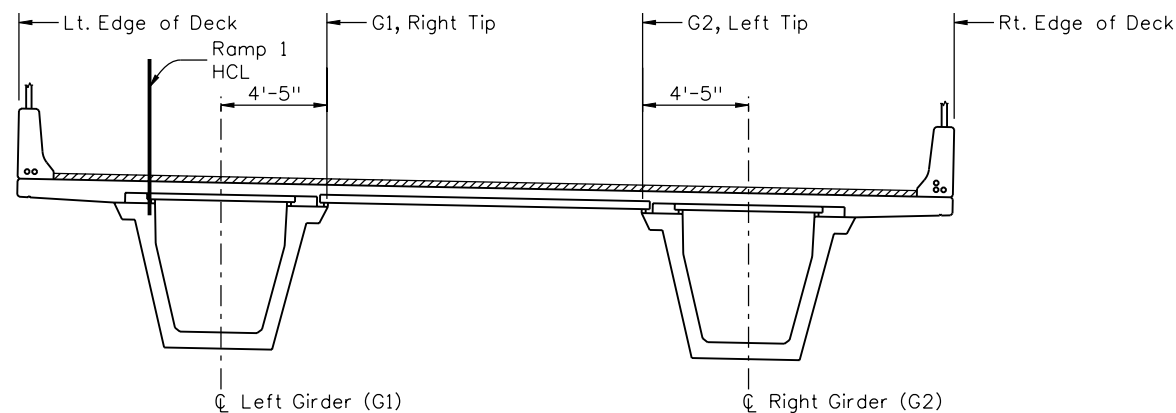
LIMITS OF VALID ELEVATION AND CROSS-SLOPE DATA

BEGIN	110+57.2700	END	135+61.5200
SUPERELEVATION		SUPERELEVATION	

LAYOUT LINE DATA

LAYOUT LINE DEFINED AS BACK TANGENT

LAYOUT LINE INTERSECTS REF LINE AT	HCL STA	OFFSET	X	Y
	110+19.7704	0.00000000	0.0000	0.0000



BRIDGE GEOMETRY LONGITUDINAL LINE DESIGNATION
 (Looking Ahead Station)

LONGITUDINAL LINE: Left Edge of Deck

BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	-5.5000	5253.7137	0.0000	1.3083	165.6050	679456.6368	961225.7258	1.3127	0 00 00.00	165.7916	+0.029782
CL Brg A1	111+86.8600	-5.5000	5253.8014	5253.8014	1.4531	167.3538	679458.2419	961225.0167	1.4581	0 00 00.00	167.5464	+0.029815
F-1	112+01.4183	-5.5000	5254.5302	5254.5711	2.7166	181.8971	679471.6188	961219.1718			182.1445	+0.029985
F-2	112+15.9767	-5.5000	5255.2582	5255.3320	4.0854	196.4309	679485.0378	961213.4240			196.7426	+0.030000
F-3	112+30.5350	-5.5000	5255.9861	5256.0815	5.5592	210.9544	679498.4978	961207.7733			211.3407	+0.030000
F-4	112+45.0933	-5.5000	5256.7141	5256.8168	7.1382	225.4669	679511.9986	961202.2203			225.9389	+0.030000
F-5	112+59.6516	-5.5000	5257.4420	5257.5371	8.8221	239.9675	679525.5390	961196.7650			240.5370	+0.030000
F-6	112+74.2100	-5.5000	5258.1699	5258.2439	10.6108	254.4556	679539.1186	961191.4078			255.1351	+0.030000
F-7	112+88.7683	-5.5000	5258.8978	5258.9423	12.5044	268.9304	679552.7366	961186.1491			269.7332	+0.030000
F-8	113+03.3266	-5.5000	5259.6257	5259.6405	14.5026	283.3911	679566.3923	961180.9890			284.3314	+0.030000
F-9	113+17.8850	-5.5000	5260.3536	5260.3494	16.6054	297.8369	679580.0849	961175.9279			298.9295	+0.030000
Pier 2	113+32.4433	-5.5000	5261.0816	5261.0816	18.8127	312.2672	679593.8139	961170.9659	19.0422	0 00 00.00	313.5276	+0.030000
F-1	113+51.5683	-5.5000	5262.0378	5262.0973	21.8710	331.1990	679611.9033	961164.5988			332.7049	+0.030000
F-2	113+70.6933	-5.5000	5262.9941	5263.1392	25.1090	350.1008	679630.0523	961158.4038			351.8822	+0.030000
F-3	113+89.8183	-5.5000	5263.9503	5264.1778	28.5266	368.9710	679648.2594	961152.3817			371.0595	+0.030000
F-4	114+08.9433	-5.5000	5264.9066	5265.1919	32.1234	387.8079	679666.5229	961146.5329			390.2367	+0.030000
F-5	114+28.0683	-5.5000	5265.8628	5266.1691	35.8991	406.6098	679684.8413	961140.8580			409.4140	+0.030000
F-6	114+47.1933	-5.5000	5266.8191	5267.1049	39.8533	425.3749	679703.2127	961135.3574			428.5913	+0.030000
F-7	114+66.3183	-5.5000	5267.7753	5268.0036	43.9858	444.1016	679721.6356	961130.0317			447.7686	+0.030000
F-8	114+85.4433	-5.5000	5268.7316	5268.8777	48.2960	462.7881	679740.1082	961124.8814			466.9459	+0.030000
F-9	115+04.5683	-5.5000	5269.6878	5269.7480	52.7837	481.4329	679758.6291	961119.9069			486.1231	+0.030000
Pier 3	115+23.6933	-5.5000	5270.6441	5270.6441	57.4483	500.0341	679777.1962	961115.1086	59.2985	0 00 00.00	505.3004	+0.030000
F-1	115+38.6933	-5.5000	5271.5941	5271.5881	61.2305	514.5918	679791.7902	961111.4689			520.3414	+0.030000
F-2	115+53.6933	-5.5000	5272.5441	5272.5441	65.1211	529.1208	679806.4108	961107.9381			535.3824	+0.029979
F-3	115+68.6933	-5.5000	5273.4941	5273.4941	69.1199	543.6205	679821.0575	961104.5164			550.4234	+0.029788
F-4	115+83.6933	-5.5000	5274.4441	5274.4441	73.2267	558.0900	679835.7292	961101.2039			565.4644	+0.029396
F-5	115+98.6933	-5.5000	5275.3941	5275.3941	77.4413	572.5284	679850.4252	961098.0011			580.5054	+0.028805
F-6	116+13.6933	-5.5000	5276.3441	5276.3441	81.7633	586.9350	679865.1446	961094.9077			595.5464	+0.028013
F-7	116+28.6933	-5.5000	5277.2941	5277.2941	86.1927	601.3090	679879.8867	961091.9243			610.5875	+0.027042
F-8	116+43.6933	-5.5000	5278.2441	5278.2441	90.7291	615.6496	679894.6507	961089.0508			625.6285	+0.026042
F-9	116+58.6933	-5.5000	5279.1941	5279.1941	95.3723	629.9559	679909.4356	961086.2875			640.6695	+0.025042
BK BRG P4	116+68.5267	-5.5000	5279.6441	5279.6441	98.4740	639.3156	679919.1390	961084.5358	103.8247	0 00 00.00	650.5297	+0.024387
Pier 4	116+71.1100	-5.5000	5279.6441	5279.6441	99.2964	641.7720	679921.6896	961084.0834	104.7368	0 00 00.00	653.1201	+0.024215
AH BRG P4	116+73.6933	-5.5000	5279.6441	5279.6441	100.1220	644.2272	679924.2407	961083.6344	105.6532	0 00 00.00	655.7105	+0.024042
F-1	116+88.3448	-5.5000	5279.6441	5279.6441	104.8639	658.1325	679938.7206	961081.1496			670.4020	+0.023066
F-2	117+02.9964	-5.5000	5279.6441	5279.6441	109.7070	672.0028	679953.2182	961078.7703			685.0936	+0.022106
F-3	117+17.6479	-5.5000	5279.6441	5279.6441	114.6510	685.8375	679967.7328	961076.4967			699.7852	+0.021305
F-4	117+32.2994	-5.5000	5279.6441	5279.6441	119.6956	699.6358	679982.2635	961074.3289			714.4768	+0.020695
F-5	117+46.9854	-5.5000	5279.6441	5279.6441	124.8033	713.4109	679996.8040	961072.2276			729.1683	+0.020274
F-6	117+61.6770	-5.5000	5279.6441	5279.6441	129.9121	727.1856	680011.3447	961070.1274			743.8599	+0.020046
F-7	117+76.3686	-5.5000	5279.6441	5279.6441	135.0208	740.9604	680025.8854	961068.0271			758.5515	+0.020000
F-8	117+91.0601	-5.5000	5280.5842	5280.5842	140.1295	754.7351	680040.4261	961065.9268			773.2431	+0.020000
F-9	118+05.7517	-5.5000	5280.5842	5280.5842	145.2383	768.5098	680054.9667	961063.8266			787.9347	+0.020000
Pier 5	118+20.4433	-5.5000	5280.5842	5280.5842	150.3470	782.2846	680069.5075	961061.7263	160.3540	0 00 00.00	802.6262	+0.020000
F-1	118+37.4850	-5.5000	5280.5842	5280.5842	156.2729	798.2627	680086.3740	961059.2901			819.6679	+0.020000
F-2	118+54.5266	-5.5000	5281.5266	5281.5266	162.1989	814.2409	680103.2407	961056.8540			836.7096	+0.020000
F-3	118+71.5683	-5.5000	5281.5266	5281.5266	168.1248	830.2191	680120.1074	961054.4177			853.7512	+0.020000
F-4	118+88.6100	-5.5000	5281.5266	5281.5266	174.0507	846.1972	680136.9739	961051.9815			870.7929	+0.020000
F-5	119+05.6516	-5.5000	5281.5266	5281.5266	179.9767	862.1754	680153.8406	961049.5453			887.8346	+0.020000
F-6	119+22.6933	-5.5000	5281.5266	5281.5266	185.9026	878.1536	680170.7073	961047.1091			904.8763	+0.019981
F-7	119+39.7350	-5.5000	5281.5266	5281.5266	191.8285	894.1317	680187.5738	961044.6729			921.9179	+0.019265
F-8	119+56.7767	-5.5000	5281.5266	5281.5266	197.7545	910.1099	680204.4405	961042.2367			938.9596	+0.017516
F-9	119+73.8183	-5.5000	5281.5266	5281.5266	203.6804	926.0881	680221.3072	961039.8004			956.0013	+0.014735
Pier 6	119+90.8600	-5.5000	5281.5266	5281.5266	209.6063	942.0662	680238.1737	961037.3642	223.5577	0 00 00.00	973.0429	+0.010922

TOP OF DECK ELEVATIONS (1 OF 6)

LONGITUDINAL LINE: HCL					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Girder G1 Right Tip					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	0.0000	5253.5499	0.0000	6.7897	165.1536	679458.8615	961230.7557	6.8127	0 00 00.00	165.3396 +/-	-0.29782	BF Abut 1	111+85.1100	7.4167	5253.3290	0.0000	14.1814	164.5448	679461.8615	961237.5386	14.2294	0 00 00.00	164.7301	-0.029782
CL Brg A1	111+86.8600	0.0000	5253.6374	5253.6374	6.9341	166.8976	679460.4623	961230.0486	6.9581	0 00 00.00	167.0896 +/-	-0.29815	CL Brg A1	111+86.8600	7.4167	5253.4163	5253.4163	14.3253	166.2824	679463.4564	961236.8341	14.3748	0 00 00.00	166.4737	-0.029815
F-1	112+01.4183	0.0000	5254.3653	5254.4062	8.1942	181.4013	679473.8028	961224.2197			181.6479 +/-	-0.29985	F-1	112+01.4183	7.4167	5254.1429	5254.1838	15.5807	180.7326	679476.7477	961231.0266			180.9783	-0.29985
F-2	112+15.9767	0.0000	5255.0932	5255.1670	9.5592	195.8954	679487.1850	961218.4875			196.2063 +/-	-0.30000	F-2	112+15.9767	7.4167	5254.8707	5254.9445	16.9407	195.1733	679490.0806	961225.3156			195.4830	-0.30000
F-3	112+30.5350	0.0000	5255.8211		11.0291	210.3793	679500.6084	961212.8523			210.7646 +/-	-0.30000	F-3	112+30.5350	7.4167	5255.5986		18.4051	209.6038	679503.4545	961219.7011			209.9877	-0.30000
F-4	112+45.0933	0.0000	5256.5491	5256.6518	12.6037	224.8522	679514.0723	961207.3143			225.3229 +/-	-0.30000	F-4	112+45.0933	7.4167	5256.3266	5256.4293	19.9740	224.0234	679516.8688	961214.1836			224.4923	-0.30000
F-5	112+59.6516	0.0000	5257.2770	5257.3721	14.2830	239.3133	679527.5758	961201.8739			239.8813 +/-	-0.30000	F-5	112+59.6516	7.4167	5257.0545	5257.1496	21.6471	238.4312	679530.3226	961208.7633			238.9970	-0.30000
F-6	112+74.2100	0.0000	5258.0049	5258.0789	16.0669	253.7619	679541.1184	961196.5314			254.4396 +/-	-0.30000	F-6	112+74.2100	7.4167	5257.7824	5257.8564	23.4244	252.8265	679543.8152	961203.4404			253.5017	-0.30000
F-7	112+88.7683	0.0000	5258.7328	5258.7773	17.9553	268.1972	679554.6993	961191.2870			268.9979 +/-	-0.30000	F-7	112+88.7683	7.4167	5258.5103	5258.5548	25.3058	267.2086	679557.3460	961198.2153			268.0063	-0.30000
F-8	113+03.3266	0.0000	5259.4607	5259.4755	19.9481	282.6185	679568.3178	961186.1410			283.5562 +/-	-0.30000	F-8	113+03.3266	7.4167	5259.2382	5259.2530	27.2913	281.5767	679570.9143	961193.0884			282.5110	-0.30000
F-9	113+17.8850	0.0000	5260.1886	5260.1844	22.0452	297.0250	679581.9732	961181.0936			298.1146 +/-	-0.30000	F-9	113+17.8850	7.4167	5259.9661	5259.9619	29.3806	295.9301	679584.5193	961188.0596			297.0157	-0.30000
Pier 2	113+32.4433	0.0000	5260.9166	5260.9166	24.2465	311.4159	679595.6647	961176.1453	24.5422	0 00 00.00	312.6729 +/-	-0.30000	Pier 2	113+32.4433	7.4167	5260.6941	5260.6941	31.5738	310.2679	679598.1603	961183.1295	31.9589	0 00 00.00	311.5203	-0.30000
F-1	113+51.5683	0.0000	5261.8728	5261.9323	27.2964	330.2961	679613.7047	961169.7954			331.7979 +/-	-0.30000	F-1	113+51.5683	7.4167	5261.6503	5261.7098	34.6124	329.0785	679616.1339	961176.8030			330.5748	-0.30000
F-2	113+70.6933	0.0000	5262.8291	5262.9742	30.5256	349.1464	679631.8043	961163.6174			350.9229 +/-	-0.30000	F-2	113+70.6933	7.4167	5262.6066	5262.7517	37.8298	347.8594	679634.1668	961170.6478			349.6293	-0.30000
F-3	113+89.8183	0.0000	5263.7853	5264.0128	33.9339	367.9652	679649.9618	961157.6117			370.0479 +/-	-0.30000	F-3	113+89.8183	7.4167	5263.5628	5263.7903	41.2255	366.6088	679652.2573	961164.6642			368.6838	-0.30000
F-4	114+08.9433	0.0000	5264.7416	5265.0269	37.5209	386.7507	679668.1755	961151.7788			384.7979 +/-	-0.30000	F-4	114+08.9433	7.4167	5264.5191	5264.8044	44.7992	365.3251	679670.4039	961158.8527			387.7383	-0.30000
F-5	114+28.0683	0.0000	5265.6978	5266.0041	41.2862	405.5013	679686.4438	961146.1193			408.2979 +/-	-0.30000	F-5	114+28.0683	7.4167	5265.4753	5265.7816	48.5508	404.0065	679688.6049	961153.2142			406.7928	-0.30000
F-6	114+47.1933	0.0000	5266.6541	5266.9399	45.2297	424.2153	679704.7652	961140.6337			427.4229 +/-	-0.30000	F-6	114+47.1933	7.4167	5266.4316	5266.7174	52.4797	422.6515	679706.8587	961147.7489			425.8473	-0.30000
F-7	114+66.3183	0.0000	5267.6103	5267.8386	49.3508	442.8909	679723.1378	961135.3225			446.5479 +/-	-0.30000	F-7	114+66.3183	7.4167	5267.3878	5267.6161	56.5856	441.2583	679725.1636	961142.4572			444.9018	-0.30000
F-8	114+85.4433	0.0000	5268.5666	5268.7127	53.6493	461.5265	679741.5601	961130.1862			465.6729 +/-	-0.30000	F-8	114+85.4433	7.4167	5268.3441	5268.4902	60.8683	439.8252	679743.5181	961137.3399			463.9563	-0.30000
F-9	115+04.5683	0.0000	5269.5228	5269.5830	58.1248	480.1204	679760.0305	961125.2253			484.7979 +/-	-0.30000	F-9	115+04.5683	7.4167	5269.3003	5269.3605	65.3272	459.8252	679761.9203	961132.3972			483.0108	-0.30000
Pier 3	115+23.6933	0.0000	5270.4791	5270.4791	62.7767	498.6709	679778.5470	961120.4401	64.7985	0 00 00.00	503.9229 +/-	-0.30000	Pier 3	115+23.6933	7.4167	5270.2566	5270.2566	69.9620	496.8327	679780.3686	961127.6297	72.2152	0 00 00.00	502.0653	-0.30000
F-1	115+38.6933	0.0000	5271.2291	5271.2231	66.5496	513.1889	679793.1012	961116.8104			518.9229 +/-	-0.30000	F-1	115+38.6933	7.4167	5271.0066	5271.0066	73.7200	511.2972	679794.8691	961124.0133			517.0100	-0.30000
F-2	115+53.6933	0.0000	5271.9712	5271.9826	70.4286	527.6784	679807.6821	961113.2892			533.9229 +/-	-0.29979	F-2	115+53.6933	7.4167	5271.7489	5271.7602	77.5857	525.7332	679809.3962	961120.5051			531.9547	-0.29979
F-3	115+68.6933	0.0000	5272.6861	5272.7258	74.4165	542.1385	679822.2887	961109.8768			548.9229 +/-	-0.29788	F-3	115+68.6933	7.4167	5272.4651	5272.5049	81.5589	540.1401	679823.9490	961117.1053			546.8994	-0.29788
F-4	115+83.6933	0.0000	5273.3727	5273.4412	78.5121	556.5685	679836.9204	961106.5734			563.9229 +/-	-0.29836	F-4	115+83.6933	7.4167	5273.1547	5273.2232	85.6394	554.5169	679838.5268	961113.8141			561.8441	-0.29836
F-5	115+98.6933	0.0000	5274.0311	5274.1204	82.7151	570.9676	679851.5763	961103.3792			578.9229 +/-	-0.29836	F-5	115+98.6933	7.4167	5273.8175	5273.9068	89.8269	568.8629	679853.1287	961110.6316			576.7889	-0.29836
F-6	116+13.6933	0.0000	5274.6614	5274.7585	87.0254	585.3349	679866.2556	961100.2943			593.9229 +/-	-0.29813	F-6	116+13.6933	7.4167	5274.4536	5274.5507	94.1213	583.1772	679867.7538	961107.5581			591.7336	-0.29813
F-7	116+28.6933	0.0000	5275.2634	5275.3538	91.4427	599.6697	679880.9575	961097.3190			608.9229 +/-	-0.27042	F-7	116+28.6933	7.4167	5275.0628	5275.1532	98.5223	597.4592	679882.4016	961104.5937			606.6736	-0.27042
F-8	116+43.6933	0.0000	5275.8372	5275.9074	95.9668	613.9712	679895.6813	961094.4534			623.9229 +/-	-0.26042	F-8	116+43.6933	7.4167	5275.6440	5275.7143	103.0297	611.7080	679897.0710	961101.7387			621.6230	-0.26042
F-9	116+58.6933	0.0000	5276.3828	5276.4221	100.5973	628.2386	679910.4259	961091.6975			638.9229 +/-	-0.25042	F-9	116+58.6933	7.4167	5276.1971	5276.2363	107.6432	625.9227	679911.7613	961098.9931			636.5677	-0.25042
BK BRG P4	116+68.5267	0.0000	5276.7252	5276.7396	103.6905	637.5728	679920.1029	961089.9506	109.3247	0 00 00.00	648.7563 +/-	-0.24387	BK BRG P4	116+68.5267	7.4167	5276.5443	5276.5587	110.7250	635.2225	679921.4026	961097.2526	116.7414	0 00 00.00	646.3648	-0.24387
Pier 4	116+71.1100	0.0000	5276.8131	5276.8204	104.5107	640.0224	679922.6465	961089.4995	110.2368	0 00 00.00	651.3396 +/-	-0.24215	Pier 4	116+71.1100	7.4167	5276.6335	5276.6408	111.5422	637.6631	679923.9368	961096.8032	117.6535	0 00 00.00	648.9386	-0.24215
AH BRG P4	116+73.6933	0.0000	5276.9002	5276.9002	105.3340	642.4710	679925.1907	961089.0517	111.1532	0 00 00.00	653.9229 +/-	-0.24042	AH BRG P4	116+73.6933	7.4167	5276.7219	5276.7219	112.3625	640.1027	679926.4717	961096.3570	118.5699	0 00 00.00	651.5124	-0.24042
F-1	116+88.3683	0.0000	5277.3791	5277.4359	110.0707	656.3605	679939.6542	961086.5698			668.5979 +/-	-0.23064	F-1	116+88.4002	7.4167	5277.2090									

LONGITUDINAL LINE: Girder G2 Left Tip					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Right Edge of Deck					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	20.5833	5252.9369	0.0000	27.3035	163.4640	679467.1872	961249.5800	27.3960	0 00 00.00	163.6481	-0.029782	BF Abut 1	111+85.1100	33.5000	5252.5522	0.0000	40.1767	162.4037	679472.4119	961261.3930	40.3127	0 00 00.00	162.5867	-0.029782
CL Brg A1	111+86.8600	20.5833	5253.0237	5253.0237	27.4465	165.1902	679468.7717	961248.8801	27.5414	0 00 00.00	165.3802	-0.029815	CL Brg A1	111+86.8600	33.5000	5252.6386	5252.6386	40.3187	164.1187	679473.9860	961260.6976	40.4581	0 00 00.00	164.3075	-0.029815
F-1	112+01.4183	20.5833	5253.7481	5253.7890	28.6937	179.5455	679481.9757	961243.1108			179.7896	-0.029985	F-1	112+01.4183	33.5000	5253.3608	5253.4017	41.5578	178.3809	679487.1044	961254.9657			178.6235	-0.029985
F-2	112+15.9767	20.5833	5254.4757	5254.5495	30.0447	193.8914	679495.2210	961237.4372			194.1990	-0.030000	F-2	112+15.9767	33.5000	5254.0882	5254.1620	42.9001	192.6338	679500.2639	961249.3289			192.9394	-0.030000
F-3	112+30.5350	20.5833	5255.2037	5255.2990	31.4996	208.2271	679508.5072	961231.8597			208.6084	-0.030000	F-3	112+30.5350	33.5000	5254.8161	5254.9115	44.3455	196.8765	679513.4638	961243.7875			207.2553	-0.030000
F-4	112+45.0933	20.5833	5255.9316	5256.0343	33.0581	222.5519	679521.8332	961226.3784			223.0178	-0.030000	F-4	112+45.0933	33.5000	5255.5441	5255.6468	45.8939	221.1084	679526.7035	961238.3418			221.5713	-0.030000
F-5	112+59.6516	20.5833	5256.6595	5256.7546	34.7202	236.8651	679535.1987	961220.9937			237.4272	-0.030000	F-5	112+59.6516	33.5000	5256.2720	5256.3671	47.5452	235.3288	679539.9822	961232.9919			235.8872	-0.030000
F-6	112+74.2100	20.5833	5257.3874	5257.4614	36.4858	251.1659	679548.6027	961215.7058			251.8366	-0.030000	F-6	112+74.2100	33.5000	5256.9999	5257.0739	49.2994	249.5368	679553.2993	961227.7384			250.2031	-0.030000
F-7	112+88.7683	20.5833	5258.1153	5258.1598	38.3549	265.4535	679562.0446	961210.5150			266.2400	-0.030000	F-7	112+88.7683	33.5000	5257.7278	5257.7723	51.1563	263.7317	679566.6540	961222.5813			264.5191	-0.030000
F-8	113+03.3266	20.5833	5258.8432	5258.8580	40.3273	279.7272	679575.5237	961205.4217			280.6554	-0.030000	F-8	113+03.3266	33.5000	5258.4557	5258.4705	53.1160	277.9129	679580.0458	961217.5210			278.8350	-0.030000
F-9	113+17.8850	20.5833	5259.5711	5259.5669	42.4030	293.9663	679589.0394	961200.4260			295.0604	-0.030000	F-9	113+17.8850	33.5000	5259.1836	5259.1794	55.1781	292.0795	679593.4738	961212.5576			293.1509	-0.030000
Pier 2	113+32.4433	20.5833	5260.2991	5260.2991	44.5817	308.2300	679602.5909	961195.5282	45.1255	0 00 00.00	309.4742	-0.030000	Pier 2	113+32.4433	33.5000	5259.9116	5259.9116	57.3427	306.2308	679606.9373	961207.6916	58.0422	0 00 00.00	307.4669	-0.030000
F-1	113+51.5683	20.5833	5261.2553	5261.3148	47.6004	326.9170	679620.4463	961189.2434			328.4035	-0.030000	F-1	113+51.5683	33.5000	5260.8678	5260.9273	60.3419	324.7966	679624.6770	961201.4476			326.2734	-0.030000
F-2	113+70.6933	20.5833	5262.2116	5262.3567	50.7966	345.5745	679638.3607	961183.1285			347.3329	-0.030000	F-2	113+70.6933	33.5000	5261.8241	5261.9692	63.5173	343.3331	679624.4752	961195.3724			345.0800	-0.030000
F-3	113+89.8183	20.5833	5263.1678	5263.3953	54.1700	364.2008	679656.3325	961177.1842			366.2622	-0.030000	F-3	113+89.8183	33.5000	5262.7803	5263.0078	66.8689	361.8385	679660.3303	961189.4667			363.8866	-0.030000
F-4	114+08.9433	20.5833	5264.1241	5264.4094	57.7203	382.7941	679674.3359	961171.4111			385.7203	-0.030000	F-4	114+08.9433	33.5000	5263.7366	5264.0219	70.3961	360.3113	679678.2408	961183.7309			382.6931	-0.030000
F-5	114+28.0683	20.5833	5265.0803	5265.3866	61.4472	401.3529	679692.4414	961165.8095			404.1209	-0.030000	F-5	114+28.0683	33.5000	5264.6928	5264.9991	74.0988	398.7497	679696.2050	961178.1656			401.4997	-0.030000
F-6	114+47.1933	20.5833	5266.0366	5266.3224	65.3503	419.8754	679710.5753	961160.3800			423.0502	-0.030000	F-6	114+47.1933	33.5000	5265.6491	5265.9349	77.9766	417.1520	679714.2213	961172.7714			420.3063	-0.030000
F-7	114+66.3183	20.5833	5266.9928	5267.2211	69.4293	438.3600	679728.7600	961155.1232			441.9796	-0.030000	F-7	114+66.3183	33.5000	5266.6053	5266.8336	82.0292	435.5167	679732.2881	961167.5487			439.1128	-0.030000
F-8	114+85.4433	20.5833	5267.9491	5268.0952	73.6838	456.8049	679746.9938	961150.0394			460.9089	-0.030000	F-8	114+85.4433	33.5000	5267.5616	5267.7077	86.2561	453.8240	679750.4036	961162.4980			457.9194	-0.030000
F-9	115+04.5683	20.5833	5268.9053	5268.9655	78.1134	475.2086	679765.2751	961145.1292			479.9365	-0.030000	F-9	115+04.5683	33.5000	5268.5178	5268.5780	90.6570	472.1263	679768.5664	961157.6196			476.7260	-0.030000
Pier 3	115+23.6933	20.5833	5269.8616	5269.8616	82.7178	493.5694	679783.6023	961140.3930	85.3818	0 00 00.00	498.7676	-0.030000	Pier 3	115+23.6933	33.5000	5269.4741	5269.4741	95.2315	490.3680	679786.7747	961152.9141	98.2985	0 00 00.00	495.5325	-0.030000
F-1	115+38.6933	20.5833	5270.6116	5270.6056	86.4511	507.9389	679798.0077	961136.8003			513.6142	-0.030000	F-1	115+38.6933	33.5000	5270.2241	5270.2181	98.9406	504.6443	679801.0866	961149.3447			510.2828	-0.030000
F-2	115+53.6933	20.5833	5271.3541	5271.3655	90.2914	522.2801	679812.4393	961133.3152			528.4607	-0.029979	F-2	115+53.6933	33.5000	5270.9669	5270.9783	102.7559	518.8925	679815.4246	961145.8821			525.0330	-0.029979
F-3	115+68.6933	20.5833	5272.0729	5272.1127	94.2385	536.5923	679826.8965	961129.9377			543.3073	-0.029788	F-3	115+68.6933	33.5000	5271.6882	5271.7279	106.6774	533.1119	679829.7881	961142.5265			539.7833	-0.029788
F-4	115+83.6933	20.5833	5272.7676	5272.8361	98.2922	550.8747	679841.3785	961126.6681			558.1538	-0.029396	F-4	115+83.6933	33.5000	5272.3879	5272.4564	110.7049	547.3016	679844.1761	961139.2783			554.5335	-0.029396
F-5	115+98.6933	20.5833	5273.4382	5273.5275	102.4522	565.1264	679855.8844	961123.5066			573.0004	-0.028805	F-5	115+98.6933	33.5000	5273.0662	5273.1554	114.8379	541.4609	679858.5880	961136.1372			569.2838	-0.028805
F-6	116+13.6933	20.5833	5274.0848	5274.1819	106.7184	579.3468	679870.4136	961120.4533			587.8469	-0.028013	F-6	116+13.6933	33.5000	5273.7229	5273.8200	119.0765	575.5890	679873.0229	961133.1038			584.0340	-0.028013
F-7	116+28.6933	20.5833	5274.7068	5274.7972	111.0905	593.5349	679884.9651	961117.5084			602.6935	-0.027042	F-7	116+28.6933	33.5000	5274.3575	5274.4479	123.4202	589.6852	679887.4801	961130.1779			598.7843	-0.027042
F-8	116+43.6933	20.5833	5275.3011	5275.3714	115.5683	607.6901	679899.5382	961114.6721			617.5400	-0.026042	F-8	116+43.6933	33.5000	5274.9648	5275.0350	127.8689	603.7485	679901.9586	961127.3600			613.5345	-0.026042
F-9	116+58.6933	20.5833	5275.8673	5275.9066	120.1514	621.8115	679914.1320	961111.9444			632.3865	-0.025042	F-9	116+58.6933	33.5000	5275.5439	5275.5831	132.4223	617.7783	679916.4577	961124.6500			628.2848	-0.025042
BK BRG P4	116+68.5267	20.5833	5276.2232	5276.2376	123.2131	631.0502	679923.7100	961110.2155	129.9080	0 00 00.00	642.1193	-0.024387	BK BRG P4	116+68.5267	33.5000	5275.9082	5275.9226	135.4641	626.9571	679925.9736	961122.9322	142.8247	0 00 00.00	637.9544	-0.024387
Pier 4	116+71.1100	20.5833	5276.3147	5276.3220	124.0248	633.4748	679926.2276	961109.7689	130.8201	0 00 00.00	644.6762	-0.024215	Pier 4	116+71.1100	33.5000	5276.0019	5276.0092	136.2706	629.3660	679928.4749	961122.4886	143.7368	0 00 00.00	640.4947	-0.024215
AH BRG P4	116+73.6933	20.5833	5276.4053	5276.4053	124.8397	635.8983	679928.7457	961109.3257	131.7365	0 00 00.00	647.2331	-0.024042	AH BRG P4	116+73.6933	33.5000	5276.0948	5276.0948	137.0802	631.7738	679930.9767	961122.0483	144.6532	0 00 00.00	643.0350	-0.024042
F-1	116+88.4573	20.5833	5276.9073	5276.9641	129.5567																				

STRUCTURE ID: F-16-XR BRIDGE GEOMETRY (WIN2.1.0e) 10/11/21 15:00

DESCRIPTION

Units: feet;
 Project: BR 0252-407; Subaccount: 17783;
 Designer: J. JOHNSON; Detailer: FHU;
 Location: DENVER;
 Ramp 1 Flyover - I-25/Santa Fe Interchange
 Top of Deck Elevations

HORIZONTAL ALIGNMENT DATA

PC 121+06.8989 T 195.1843
 PI 123+02.0832 Lc 386.7458 DELTA 19 06 09.01 LT Dc 4 56 21.45 RADIUS 1160.000000
 PT 124+93.6447 T 195.1843

VERTICAL ALIGNMENT DATA

ELEVATION AT PI	ELEVATION AT GRADE	STATION	ELEVATION AT GRADE	ELEVATION AT PI	PERCENT GRADE
		115+42.5000	PC	5271.6694	5.000000
		118+80.0000	PI	5281.4044	5288.5444
		122+17.5000	PT	5276.8595	-3.462200

TABLE OF ROADWAY CROSS-SLOPES (SUPERELEVATION: E = -NC -)

STATION (ON TANGENT)	SLOPE LEFT	SLOPE RIGHT	VC LENGTH
	0.0000	0.0000	75.00 (MAX)
110+19.7700	0.0200	-0.0200	75.00 -U-
111+69.7700	0.0300	-0.0300	75.00 -U-
115+84.3300	0.0300	-0.0300	75.00 -U-
117+34.3300	0.0200	-0.0200	75.00 -U-
119+56.9000	0.0200	-0.0200	75.00 -U-
121+06.9000	-0.0200	0.0200	50.00 -U-
121+56.9000	-0.0340	0.0340	50.00 -U-
124+43.6400	-0.0340	0.0340	50.00 -U-
124+93.6400	-0.0200	0.0200	50.00 -U-
126+43.6400	-0.0200	0.0200	75.00 -U-
135+99.0200	0.0200	-0.0200	75.00 -U-

OFFSET PROFILE CONTROL TO PIVOT POINT = 0.0000 FEET

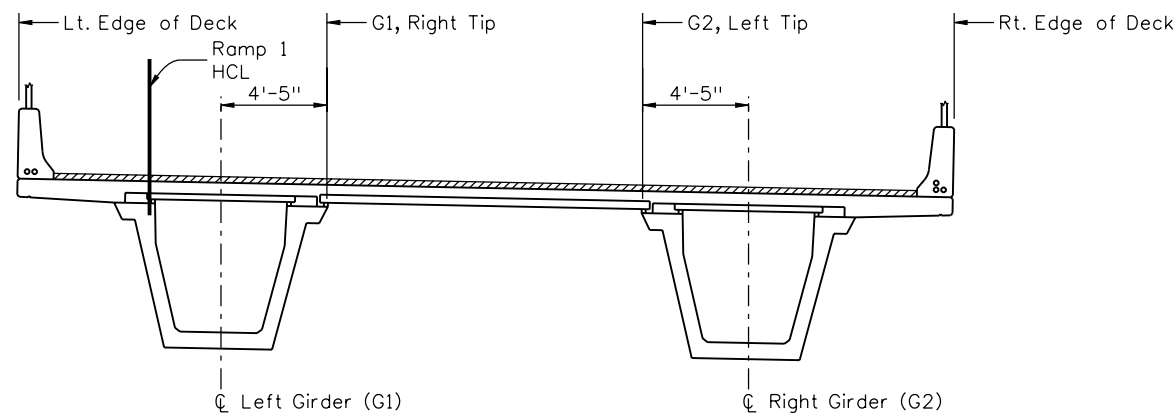
LIMITS OF VALID ELEVATION AND CROSS-SLOPE DATA

BEGIN 110+57.2700 SUPERELEVATION
 END 135+61.5200 SUPERELEVATION

LAYOUT LINE DATA

LAYOUT LINE DEFINED AS BACK TANGENT

LAYOUT LINE INTERSECTS REF LINE AT HCL STA 119+90.8600 OFFSET 0.00000000 X 0.0000 Y 0.0000



BRIDGE GEOMETRY LONGITUDINAL LINE DESIGNATION

(Looking Ahead Station)

LONGITUDINAL LINE: Left Edge of Deck

BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	-5.5000	5281.2965	5281.2965	-5.5000	0.0000	680238.1738	961037.3642	-5.5000	0 00 00.00	0.0000	+0.010922
F-1	120+10.1484	-5.5000	5281.1253	5281.1905	-5.5000	19.2884	680257.2641	961034.6068			19.2884	+0.005800
F-2	120+29.4368	-5.5000	5280.9073	5281.0634	-5.5000	38.5768	680276.3543	961031.8494			38.5768	+0.000657
F-3	120+48.7252	-5.5000	5280.6426	5280.8852	-5.5000	57.8652	680295.4446	961029.0920			57.8652	-0.004487
F-4	120+68.0136	-5.5000	5280.3313	5280.6344	-5.5000	77.1536	680314.5349	961026.3346			77.1536	-0.009630
F-5	120+87.3020	-5.5000	5279.9733	5279.2981	-5.5000	96.4420	680333.6252	961023.5772			96.4420	-0.014778
F-6	121+06.5903	-5.5000	5279.5683	5279.8715	-5.5000	115.7303	680352.7154	961020.8198			115.7303	-0.019999
F-7	121+25.9692	-5.5000	5279.1139	5279.3566	-5.6560	135.0179	680371.7826	961017.9081			135.0187	-0.025344
F-8	121+45.3494	-5.5000	5278.6147	5278.7709	-6.1342	154.3001	680390.7984	961014.6783			154.3071	-0.030259
F-9	121+64.7297	-5.5000	5278.0795	5278.1447	-6.9344	173.5717	680409.7577	961011.1313			173.5955	-0.033175
Pier 7	121+84.1100	-5.5000	5277.5086	5277.5086	-8.0565	192.8272	680428.6550	961007.2681	-8.0744	0 00 00.00	192.8839	-0.034000
F-1	121+98.2350	-5.5000	5277.0662	5277.0576	-9.0769	206.8480	680442.3859	961004.2538			206.9419	-0.034000
F-2	122+12.3600	-5.5000	5276.5988	5276.6057	-10.2680	220.8554	680456.0792	961001.0725			221.0000	-0.034000
F-3	122+26.4850	-5.5000	5276.1114	5276.1454	-11.6295	234.8473	680469.7327	960997.7247			235.0580	-0.034000
F-4	122+40.6100	-5.5000	5275.6224	5275.6847	-13.1613	248.8215	680483.3444	960994.2110			249.1160	-0.034000
F-5	122+54.7350	-5.5000	5275.1333	5275.2176	-14.8631	262.7761	680496.9124	960990.5318			263.1741	-0.034000
F-6	122+68.8600	-5.5000	5274.6443	5274.7387	-16.7348	276.7089	680510.4345	960986.6875			277.2321	-0.034000
F-7	122+82.9850	-5.5000	5274.1553	5274.2454	-18.7759	290.6178	680523.9088	960982.6790			291.2901	-0.034000
F-8	122+97.1100	-5.5000	5273.6662	5273.7373	-20.9862	304.5009	680537.3333	960978.5067			305.3481	-0.034000
F-9	123+11.2350	-5.5000	5273.1772	5273.2167	-23.3655	318.3561	680550.7061	960974.1712			319.4062	-0.034000
BK Brg PB	123+20.1933	-5.5000	5272.6670	5272.8820	-24.9618	327.1278	680559.1595	960971.3373	-25.3898	0 00 00.00	328.3220	-0.034000
Pier 8	123+22.7767	-5.5000	5272.7776	5272.7851	-25.4347	329.6551	680561.5932	960970.5080	-25.8816	0 00 00.00	330.8931	-0.034000
AH Brg PB	123+25.3600	-5.5000	5272.6881	5272.6881	-25.9132	332.1812	680564.0250	960969.6733	-26.3797	0 00 00.00	333.4642	-0.034000
F-1	123+37.0350	-5.5000	5272.2839	5272.2973	-28.1460	343.5843	680574.9917	960965.8333			345.0838	-0.034000
F-2	123+48.7100	-5.5000	5271.8797	5271.9028	-30.4935	354.9643	680585.9193	960961.8830			356.7035	-0.034000
F-3	123+60.3850	-5.5000	5271.4755	5271.5034	-32.9554	366.3201	680596.8065	960957.8230			368.3231	-0.034000
F-4	123+72.0600	-5.5000	5271.0713	5271.0980	-35.5314	377.6505	680607.6523	960953.6537			379.9428	-0.034000
F-5	123+83.7350	-5.5000	5270.6671	5270.6868	-38.2213	388.9545	680618.4556	960949.3755			391.5624	-0.034000
F-6	123+95.4100	-5.5000	5270.2629	5270.2712	-41.0249	400.2308	680629.2153	960944.9887			403.1821	-0.034000
F-7	124+07.0850	-5.5000	5269.8587	5269.8547	-43.9418	411.4783	680639.9303	960940.4938			414.8017	-0.034000
F-8	124+18.7600	-5.5000	5269.4545	5269.4419	-46.9718	422.6959	680650.5995	960935.8913			426.4213	-0.034000
F-9	124+30.4350	-5.5000	5269.0524	5269.0399	-50.1145	433.8824	680661.2219	960931.1817			438.0410	-0.033610
Pier 9	124+42.1100	-5.5000	5268.6545	5268.6545	-53.3697	445.0367	680671.7962	960926.3654	-55.6783	0 00 00.00	449.6606	-0.032458
F-1	124+59.8698	-5.5000	5268.0573	5268.1071	-58.5362	461.9402	680687.7875	960918.8355			467.3362	-0.029240
F-2	124+77.6295	-5.5000	5267.4686	5267.5783	-63.9608	478.7625	680703.6616	960911.0618			485.0118	-0.024494
F-3	124+95.3810	-5.5000	5266.8808	5267.0421	-69.6412	495.5003	680719.4154	960903.0469			502.6873	-0.019608
F-4	125+13.0566	-5.5000	5266.2952	5266.4869	-75.4257	512.2026	680735.1192	960894.8342			520.3629	-0.014826
F-5	125+30.7322	-5.5000	5265.7092	5265.9038	-81.2102	528.9048	680750.8330	960886.8214			538.0385	-0.010109
F-6	125+48.4077	-5.5000	5265.1231	5265.2929	-86.9947	545.6071	680766.5268	960878.7086			555.7140	-0.005395
F-7	125+66.0833	-5.5000	5264.5371	5264.6600	-92.7792	562.3093	680782.2305	960870.5958			573.3896	-0.000682
F-8	125+83.7589	-5.5000	5263.9510	5264.0169	-98.5637	579.0116	680797.9343	960862.4830			591.0652	-0.004032
F-9	126+01.4344	-5.5000	5263.3650	5263.3819	-104.3481	595.7139	680813.6382	960854.3704			608.7407	+0.008745
Pier 10	126+19.1100	-5.5000	5262.7773	5262.7773	-110.1326	612.4161	680829.3419	960846.2576	-116.5505	0 00 00.00	626.4163	+0.013160
F-1	126+37.8100	-5.5000	5262.1491	5262.1918	-116.2524	630.0864	680845.9558	960837.6746			645.1163	+0.016662
F-2	126+56.5100	-5.5000	5261.5141	5261.6285	-122.3721	647.7567	680862.5698	960829.0916			663.8163	+0.018922
F-3	126+75.2100	-5.5000	5260.8723	5261.0613	-128.4919	665.4269	680879.1836	960820.5086			682.5163	+0.019937
F-4	126+93.9100	-5.5000	5260.2252	5260.4724	-134.6116	683.0972	680895.7976	960811.9257			701.2163	+0.020000
F-5	127+12.6100	-5.5000	5259.5778	5259.8537	-140.7314	700.7675	680912.4115	960803.3427			719.9163	+0.020000
F-6	127+31.3100	-5.5000	5258.9303	5259.1996	-146.8511	718.4378	680929.0255	960794.7598			738.6163	+0.020000
F-7	127+50.0100	-5.5000	5258.2829	5258.5107	-152.9709	736.1080	680945.6394	960786.1768			757.3163	+0.020000
F-8	127+68.7100	-5.5000	5257.6355	5257.7942	-159.0906	753.7783	680962.2533	960777.5938			776.0163	+0.020000
F-9	127+87.4100	-5.5000	5256.9881	5257.0639	-165.2104	771.4486	680978.8673	960769.0108			794.7163	+0.020000
Pier 11	128+06.1100	-5.5000	5256.3406	5256.3406	-171.3301	789.1189	680995.4812	960760.4279	-181.3142	0 00 00.00	813.4163	+0.020000
F-1	128+19.4100	-5.5000	5255.8801	5255.8534	-175.6827	801.6865	681007.2975	960754.3234			826.7163	+0.020000
F-2	128+32.7100	-5.5000	5255.4197	5255.3866	-180.0352	814.2541	681019.1138	960748.2190			840.0163	+0.020000
F-3	128+46.0100	-5.5000	5254.9592	5254.9340	-184.3877	826.8218	681030.9302	960742.1146			853.3163	+0.020000
F-4	128+59.3											

LONGITUDINAL LINE: HCL					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Girder G1 Right Tip					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE				
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	
Pier 6	119+90.8600	0.0000	5281.2365	5281.2365	0.0000	0.0000	680238.9600	961042.8077	0.0000	0 00 00.00	0.0000	+/- .010922	Pier 6	119+90.8600	7.4167	5281.1554	5281.1554	7.4167	0.0000	680240.0203	961050.1482	7.4167	0 00 00.00	0.0000	-0.010922	
F-1	120+10.1850	0.0000	5281.0931	5281.1583	0.0000	19.3250	680258.0865	961040.0450			19.3250	+/- .005791	F-1	120+10.2344	7.4167	5281.0498	5281.1150	7.4167	19.3744	680259.1957	961047.3785	19.3744			19.3744	-0.005778
F-2	120+29.5100	0.0000	5280.9028	5281.0590	0.0000	38.6500	680277.2131	961037.2824			38.6500	+/- .000637	F-2	120+29.6087	7.4167	5280.8972	5281.0534	7.4167	38.7487	680278.3710	961044.6088	38.7487			38.7487	-0.000611
F-3	120+48.8350	0.0000	5280.6658	5280.9084	0.0000	57.9750	680296.3396	961034.5198			57.9750	+/- .004516	F-3	120+48.9831	7.4167	5280.6976	5280.9402	7.4167	58.1231	680297.5464	961041.8391	58.1231			58.1231	+0.004555
F-4	120+68.1600	0.0000	5280.3819	5280.6851	0.0000	77.3000	680315.4661	961031.7572			77.3000	+/- .009669	F-4	120+68.3575	7.4167	5280.4509	5280.7540	7.4167	77.4975	680316.7218	961039.0694	77.4975			77.4975	+0.009722
F-5	120+87.4850	0.0000	5280.0513	5280.3760	0.0000	96.6250	680334.5926	961028.9945			96.6250	+/- .014827	F-5	120+87.7318	7.4167	5280.1572	5280.4819	7.4167	96.8718	680335.8971	961036.2998	96.8718			96.8718	+0.014893
F-6	121+06.8100	0.0000	5279.6738	5279.9769	0.0000	115.9500	680353.7191	961026.2319			115.9500	+/- .020059	F-6	121+07.1049	7.4167	5279.8170	5279.1202	7.4167	116.2462	680355.0725	961033.5301	116.2462			116.2462	+0.020139
F-7	121+26.1350	0.0000	5279.2495	5279.4921	-0.1595	135.2741	680372.8219	961023.3115			135.2750	+/- .025390	F-7	121+26.3562	7.4167	5279.4331	5279.6758	7.2525	135.6196	680374.2235	961030.5980	135.6206			135.6206	+0.025452
F-8	121+45.4600	0.0000	5278.7783	5278.9345	-0.6409	154.5929	680391.8735	961020.0733			154.6000	+/- .030282	F-8	121+45.6074	7.4167	5278.9994	5279.1556	6.7668	154.9877	680393.3232	961027.3485	154.9949			154.9949	+0.030312
F-9	121+64.7850	0.0000	5278.2604	5278.3257	-1.4440	173.9010	680410.8685	961016.5183			173.9250	+/- .033180	F-9	121+64.8587	7.4167	5278.5045	5278.5697	5.9598	174.3450	680412.3663	961023.7826	174.3693			174.3693	+0.033187
Pier 7	121+84.1100	0.0000	5277.6956	5277.6956	-2.5687	193.1930	680429.8015	961012.6472	-2.5744	0 00 00.00	193.2500	+/- .034000	Pier 7	121+84.1100	7.4167	5277.9478	5277.9478	4.8316	193.6863	680431.3477	961019.9010	4.8423	0 00 00.00	0.0000	-0.034000	
F-1	121+98.2350	0.0000	5277.2532	5277.2446	-3.5940	207.2807	680443.5980	961009.6185			207.3750	+/- .034000	F-1	121+98.2350	7.4167	5277.5054	5277.4968	3.7998	207.8640	680445.2323	961016.8530	207.9590			207.9590	+0.034000
F-2	122+12.3600	0.0000	5276.7858	5276.7927	-4.7907	221.3548	680457.3564	961006.4221			221.5000	+/- .034000	F-2	122+12.3600	7.4167	5277.0379	5277.0449	2.5954	222.0281	680459.0787	961013.6361	222.1743			222.1743	+0.034000
F-3	122+26.4850	0.0000	5276.2984	5276.3324	-6.1587	235.4133	680471.0750	961003.0584			235.6250	+/- .034000	F-3	122+26.4850	7.4167	5276.5506	5276.5846	1.2186	236.1765	680472.8850	961010.2509	236.3896			236.3896	+0.034000
F-4	122+40.6100	0.0000	5275.8094	5275.8717	-7.6978	249.4541	680484.7515	960999.5279			249.7500	+/- .034000	F-4	122+40.6100	7.4167	5276.0615	5276.1239	-0.3303	250.3071	680486.6490	961006.6978	250.6049			250.6049	+0.034000
F-5	122+54.7350	0.0000	5275.3203	5275.4046	-9.4077	263.4751	680498.3841	960995.8312			263.8750	+/- .034000	F-5	122+54.7350	7.4167	5275.5725	5275.6567	-2.0512	264.4178	680500.3688	961002.9774	264.8202			264.8202	+0.034000
F-6	122+68.8600	0.0000	5274.8313	5274.9257	-11.2883	277.4743	680511.9707	960991.9686			278.0000	+/- .034000	F-6	122+68.8600	7.4167	5275.0835	5275.1779	-3.9438	278.5065	680514.0422	960999.0902	279.0355			279.0355	+0.034000
F-7	122+82.9850	0.0000	5274.3423	5274.4324	-13.3391	291.4495	680525.5092	960987.9411			292.1250	+/- .034000	F-7	122+82.9850	7.4167	5274.5944	5274.6846	-6.0077	292.5711	680527.6673	960995.0368	293.2508			293.2508	+0.034000
F-8	122+97.1100	0.0000	5273.8532	5273.9243	-15.5600	305.3988	680538.9977	960983.7488			306.2500	+/- .034000	F-8	122+97.1100	7.4167	5274.1054	5274.1765	-8.2428	306.6095	680541.2420	960990.8178	307.4662			307.4662	+0.034000
F-9	123+11.2350	0.0000	5273.3642	5273.4037	-17.9506	319.3199	680552.4341	960979.3927			320.3750	+/- .034000	F-9	123+11.2350	7.4167	5273.6163	5273.6559	-10.6487	320.6196	680554.7643	960986.4338	321.6815			321.6815	+0.034000
BK Brg P8	123+20.1933	0.0000	5273.0540	5273.0690	-19.5545	328.1334	680560.9277	960976.5453	-19.8898	0 00 00.00	329.3333	+/- .034000	BK Brg P8	123+20.1933	7.4167	5273.3062	5273.3212	-12.2628	329.4895	680563.3123	960983.5683	-12.4731	0 00 00.00	0.0000	-0.034000	
Pier 8	123+22.7767	0.0000	5272.9646	5272.9721	-20.0297	330.6727	680563.3730	960975.7120	-20.3816	0 00 00.00	331.9167	+/- .034000	Pier 8	123+22.7767	7.4167	5273.2168	5273.2243	-12.7410	332.0451	680565.7733	960982.7296	-12.9649	0 00 00.00	0.0000	-0.034000	
AH Brg P8	123+25.3600	0.0000	5272.8751	5272.8751	-20.5105	333.2109	680565.8164	960974.8733	-20.8797	0 00 00.00	334.5000	+/- .034000	AH Brg P8	123+25.3600	7.4167	5273.1273	5273.1273	-13.2249	334.5994	680568.2322	960981.8856	-13.4630	0 00 00.00	0.0000	-0.034000	
F-1	123+37.0350	0.0000	5272.4709	5272.4843	-22.7539	344.6683	680576.8354	960971.0150			346.1750	+/- .034000	F-1	123+37.0350	7.4167	5272.7231	5272.7365	-15.4827	346.1301	680579.3217	960978.0026	347.6464			347.6464	+0.034000
F-2	123+48.7100	0.0000	5272.0667	5272.0898	-25.1126	356.1025	680587.8150	960967.0460			357.8500	+/- .034000	F-2	123+48.7100	7.4167	5272.3189	5272.3419	-17.8564	357.6374	680590.3715	960974.0082	359.3961			359.3961	+0.034000
F-3	123+60.3850	0.0000	5271.6625	5271.6904	-27.5862	367.5124	680598.7541	960962.9666			369.5200	+/- .034000	F-3	123+60.3850	7.4167	5271.9147	5271.9426	-20.3458	369.1202	680601.3804	960969.9028	371.1457			371.1457	+0.034000
F-4	123+72.0600	0.0000	5271.2583	5271.2850	-30.1745	378.8968	680609.6516	960958.7775			381.2500	+/- .034000	F-4	123+72.0600	7.4167	5271.5105	5271.5372	-22.9507	380.5775	680612.3477	960965.6868	382.8954			382.8954	+0.034000
F-5	123+83.7350	0.0000	5270.8541	5270.8738	-32.8772	390.2546	680620.5063	960954.4789			392.8750	+/- .034000	F-5	123+83.7350	7.4167	5271.1063	5271.1259	-25.6707	392.0079	680623.2718	960961.3607	394.6540			394.6540	+0.034000
F-6	123+95.4100	0.0000	5270.4499	5270.4582	-35.6941	401.5846	680631.3173	960950.0712			404.5500	+/- .034000	F-6	123+95.4100	7.4167	5270.7020	5270.7103	-28.5057	403.4103	680634.1518	960956.9248	406.3947			406.3947	+0.034000
F-7	124+07.0850	0.0000	5270.0457	5270.0417	-38.6250	412.8857	680642.0833	960945.5548			416.2250	+/- .034000	F-7	124+07.0850	7.4167	5270.2978	5270.2939	-31.4552	414.7837	680644.9868	960952.3797	418.1443			418.1443	+0.034000
F-8	124+18.7600	0.0000	5269.6415	5269.6289	-41.6694	424.1568	680652.8034	960940.9304			427.9000	+/- .034000	F-8	124+18.7600	7.4167	5269.8936	5269.8811	-34.5191	426.1268	680655.7754	960947.7257	429.8939			429.8939	+0.034000
F-9	124+30.4350	0.0000	5269.2372	5269.2247	-44.8271	435.3966	680663.4764	960936.1984			439.5750	+/- .033610	F-9	124+30.4350	7.4167	5269.4865	5269.4740	-37.6970	437.4385	680656.5166	960942.9633	441.6436			441.6436	+0.033610
Pier 9	124+42.1100	0.0000	5268.8330	5268.8330	-48.0977	446.6041	680674.1012	960931.3592	-50.1783	0 00 00.00	451.2500	+/- .032458	Pier 9	124+42.1100	7.4167	5269.0738	5269.0738	-40.9885	448.7176	680677.2093	960938.0932	453.3932			453.3932	+0.032458
F-1	124+59.8100	0.0000	5268.2202	5268.2700	-53.2709	463.5310	680690.1147	960923.8193			466.9500	+/- .029254	F-1	124+59.8100	7.4167	5268.4401	5268.4898	-46.1708	448.6762	6806						

LONGITUDINAL LINE: Girder G2 Left Tip					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Right Edge of Deck					PARALLEL TO HORIZONTAL CONTROL				0.250000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	20.5833	5281.0116	5281.0116	20.5833	0.0000	680241.9025	961063.1795	20.5833	0 00 00.00	0.0000	-0.010922	Pier 6	119+90.8600	33.5000	5280.8706	5280.8706	33.5000	0.0000	680243.7491	961075.9636	33.5000	0 00 00.00	0.0000	-0.010922
F-1	120+10.3220	20.5833	5280.9734	5281.0387	20.5833	19.4620	680261.1646	961060.3973			19.4620	-0.005751	F-1	120+10.4080	33.5000	5280.8991	5280.9644	33.5000	19.5480	680263.0963	961073.1691			19.5480	-0.005731
F-2	120+29.7840	20.5833	5280.8882	5281.0444	20.5833	38.9240	680280.4268	961057.6151			38.9240	-0.000564	F-2	120+29.9560	33.5000	5280.8805	5281.0367	33.5000	39.0960	680282.4435	961070.3746			39.0960	-0.000518
F-3	120+49.2460	20.5833	5280.7555	5280.9981	20.5833	58.3860	680299.6889	961054.8329			58.3860	+0.004626	F-3	120+49.5039	33.5000	5280.8140	5281.0566	33.5000	58.6439	680301.7906	961067.5801			58.6439	+0.004694
F-4	120+68.7840	20.5833	5280.5752	5280.8784	20.5833	77.8480	680318.9510	961052.0507			77.8480	+0.009815	F-4	120+69.0519	33.5000	5280.6996	5281.0027	33.5000	78.1919	680321.1379	961064.7856			78.1919	+0.009907
F-5	120+88.1700	20.5833	5280.3477	5280.6724	20.5833	97.3100	680338.2131	961049.2685			97.3100	+0.015011	F-5	120+88.5999	33.5000	5280.5375	5280.8622	33.5000	97.7399	680340.4851	961061.9911			97.7399	+0.015126
F-6	121+07.6192	20.5833	5280.0744	5280.3775	20.5831	116.7720	680357.4751	961046.4861			116.7720	+0.020280	F-6	121+08.1128	33.5000	5280.3305	5280.6337	33.4993	117.2879	680359.8322	961059.1959			117.2879	+0.020415
F-7	121+26.7419	20.5833	5279.7615	5279.0041	20.4106	136.2331	680376.7171	961043.5333			136.2340	+0.025559	F-7	121+27.1121	33.5000	5280.0865	5280.3291	33.3188	136.8348	680379.1525	961056.2229			136.8348	+0.025662
F-8	121+45.8646	20.5833	5279.3930	5279.5492	19.9173	155.6886	680395.8969	961040.2637			155.6960	+0.030364	F-8	121+46.1114	33.5000	5279.7805	5279.9367	32.8182	156.3762	680398.4217	961052.9338			156.3762	+0.030414
F-9	121+64.9873	20.5833	5278.9381	5279.0033	19.1034	175.1333	680415.0255	961036.6785			175.1580	+0.033199	F-9	121+65.1107	33.5000	5279.3638	5279.4291	31.9975	175.9067	680417.6342	961049.3296			175.9318	+0.033211
Pier 7	121+84.1100	20.5833	5278.3955	5278.3955	17.9690	194.5620	680434.0925	961032.7783	18.0089	0 00 00.00	194.6201	+0.034000	Pier 7	121+84.1100	33.5000	5278.8346	5278.8346	30.8571	195.4212	680436.7853	961045.4112	30.9256	0 00 00.00	195.4798	+0.034000
F-1	121+98.2350	20.5833	5277.9530	5277.9444	16.9256	208.8997	680448.1337	961029.6959			208.8997	+0.034000	F-1	121+98.2350	33.5000	5278.3922	5278.3836	29.8023	209.9157	680450.9801	961042.2951			210.0127	+0.034000
F-2	122+12.3600	20.5833	5277.4856	5277.4926	15.7076	223.2235	680462.1363	961026.4428			223.3713	+0.034000	F-2	122+12.3600	33.5000	5277.9248	5277.9317	28.5710	224.3962	680465.1359	961039.0064			224.5456	+0.034000
F-3	122+26.4850	20.5833	5276.9982	5277.0322	14.3153	237.5315	680476.0983	961023.0193			237.7470	+0.034000	F-3	122+26.4850	33.5000	5277.4374	5277.4714	27.1634	238.8607	680479.2506	961035.5455			239.0786	+0.034000
F-4	122+40.6100	20.5833	5276.5092	5276.5715	12.7489	251.8214	680490.0175	961019.4262			252.1226	+0.034000	F-4	122+40.6100	33.5000	5276.9484	5277.0107	25.5799	253.3070	680493.3221	961031.9130			253.6115	+0.034000
F-5	122+54.7350	20.5833	5276.0202	5276.1044	11.0086	266.0913	680503.8921	961015.6638			266.4982	+0.034000	F-5	122+54.7350	33.5000	5276.4593	5276.5436	23.8206	267.7300	680507.3485	961028.1095			268.1444	+0.034000
F-6	122+68.8600	20.5833	5275.5311	5275.6255	9.0947	280.3388	680517.7196	961011.7328			280.8739	+0.034000	F-6	122+68.8600	33.5000	5275.9703	5276.0647	21.8857	282.1364	680521.3273	961024.1354			282.6773	+0.034000
F-7	122+82.9850	20.5833	5275.0421	5275.1322	7.0075	294.5621	680531.4985	961007.6337			295.2495	+0.034000	F-7	122+82.9850	33.5000	5275.4813	5275.5714	19.7756	296.5153	680535.2569	961019.9915			297.2102	+0.034000
F-8	122+97.1100	20.5833	5274.5530	5274.6242	4.7472	308.7588	680545.2262	961003.3671			309.6251	+0.034000	F-8	122+97.1100	33.5000	5274.9922	5275.0633	17.4906	313.8673	680549.1348	961015.6782			311.7432	+0.034000
F-9	123+11.2350	20.5833	5274.0640	5274.1035	2.3142	322.9270	680558.9011	960998.9337			324.0000	+0.034000	F-9	123+11.2350	33.5000	5274.5032	5274.5427	15.0310	325.1905	680552.9933	961011.1963			326.2761	+0.034000
BK Brg P8	123+20.1933	20.5833	5273.7539	5273.7688	0.6818	331.8969	680567.5455	960996.0358	0.6935	0 00 00.00	332.1180	+0.034000	BK Brg P8	123+20.1933	33.5000	5274.1930	5274.2080	13.3808	334.2586	680571.6983	961008.2667	13.6102	0 00 00.00	335.4931	+0.034000
Pier 8	123+22.7767	20.5833	5273.6644	5273.6719	0.1982	334.4813	680570.0342	960995.1877	0.2017	0 00 00.00	335.7473	+0.034000	Pier 8	123+22.7767	33.5000	5274.1036	5274.1111	12.8919	336.8712	680574.2142	961007.4093	13.1184	0 00 00.00	338.1511	+0.034000
AH Brg P8	123+25.3600	20.5833	5273.5750	5273.5750	-0.2911	337.0645	680572.5209	960994.3341	-0.2964	0 00 00.00	338.3764	+0.034000	AH Brg P8	123+25.3600	33.5000	5274.0141	5274.0141	12.3972	339.4827	680576.7282	961006.5464	12.6203	0 00 00.00	340.8090	+0.034000
F-1	123+37.0350	20.5833	5273.1708	5273.1841	-2.5744	348.7251	680583.7354	960990.4073			350.2586	+0.034000	F-1	123+37.0350	33.5000	5273.6099	5273.6233	10.0890	351.2709	680588.0653	961002.5767			352.8212	+0.034000
F-2	123+48.7100	20.5833	5272.7666	5272.7896	-4.9749	360.3622	680594.9098	960986.3679			362.1407	+0.034000	F-2	123+48.7100	33.5000	5273.2057	5273.2288	7.6622	363.0354	680599.3621	960998.4930			364.8333	+0.034000
F-3	123+60.3850	20.5833	5272.3623	5272.3902	-7.4924	371.9746	680606.0430	960982.2162			374.0229	+0.034000	F-3	123+60.3850	33.5000	5272.8015	5272.8294	5.1172	374.7748	680610.6171	960994.2959			376.8455	+0.034000
F-4	123+72.0600	20.5833	5271.9581	5271.9849	-10.1266	383.9510	680617.1338	960977.9527			385.9501	+0.034000	F-4	123+72.0600	33.5000	5272.3973	5272.4240	2.4541	386.4880	680621.8293	960989.9857			388.8577	+0.034000
F-5	123+83.7350	20.5833	5271.5539	5271.5736	-12.8773	395.1204	680628.1813	960973.5777			397.7872	+0.034000	F-5	123+83.7350	33.5000	5271.9931	5272.0128	-0.3267	398.1738	680632.9975	960985.5629			400.8698	+0.034000
F-6	123+95.4100	20.5833	5271.1497	5271.1580	-15.7442	406.6514	680639.1840	960969.0919			409.6694	+0.034000	F-6	123+95.4100	33.5000	5271.5889	5271.5972	-3.2250	409.8310	680644.1206	960981.0279			412.8820	+0.034000
F-7	124+07.0850	20.5833	5270.7455	5270.7415	-18.7270	418.1531	680650.1412	960964.4955			421.5516	+0.034000	F-7	124+07.0850	33.5000	5271.1847	5271.1807	-6.2404	421.4585	680655.1976	960976.3813			424.8942	+0.034000
F-8	124+18.7600	20.5833	5270.3413	5270.3287	-21.8255	429.6241	680661.0514	960959.7889			433.4337	+0.034000	F-8	124+18.7600	33.5000	5270.7804	5270.7679	-9.3728	433.0550	680666.2272	960971.6233			436.9063	+0.034000
F-9	124+30.4350	20.5833	5269.9291	5269.9166	-25.0392	441.0633	680671.9137	960954.9729			445.3159	+0.033610	F-9	124+30.4350	33.5000	5270.3632	5270.3507	-12.6216	444.6194	680677.2084	960966.7546			448.9185	+0.033610
Pier 9	124+42.1100	20.5833	5269.5011	5269.5011	-28.3679	452.4697	680682.7271	960950.0478	-29.5950	0 00 00.00	457.1981	+0.032458	Pier 9	124+42.1100	33.5000	5269.9204	5269.9204	-15.9867	456.1505	680688.1400	960961.7756	-16.6783	0 00 00.00	460.9307	+0.032458
F-1	124+59.5913	20.5833	5268.8310	5268.8807	-33.5662	469.4846	680698.8241	960942.4705			474.9895	+0.029304	F-1	124+59.5913	33.5000	5269.2151	5269.2151	-21.2009	473.2206	680694.2894	960954.1747			478.7795	+0.029335
F-2	124+77.0725	20.5833	5268.1299	5268.2396	-39.0203	486.4192	680714.8050	960934.6515			492.7809	+0.024648	F-2	124+77.0725	33.5										

DESCRIPTION

Units: feet;
 Project: BR 0252-407; Subaccount: 17783;
 Designer: J. JOHNSON; Detailer: FMJ;
 Location: DENVER;
 Ramp 1 Flyover - I-25/Santa Fe Interchange
 Top of Precast Panels over Precast Girders

HORIZONTAL ALIGNMENT DATA

PC	110+19.7704	T	361.0853						
PI	113+80.8557	Lc	714.5638	DELTA	20 20 55.15 RT	Dc	2 50 51.73	RADIUS	2012.000000
PT	117+34.3342	T	361.0853						

VERTICAL ALIGNMENT DATA

ELEVATION AT PI	ELEVATION AT GRADE	STATION	ELEVATION AT GRADE	ELEVATION AT PI	PERCENT GRADE
		115+42.5000	PC	5271.6694	5.000000
		118+80.0000	PI	5281.4044	5288.5444
		122+17.5000	PT	5276.8595	-3.462200

TABLE OF ROADWAY CROSS-SLOPES (SUPERELEVATION: E= -NC-)

STATION (ON TANGENT)	SLOPE LEFT	SLOPE RIGHT	VC LENGTH
	0.0000	0.0000	75.00 (MAX)
110+19.7700	0.0200	-0.0200	75.00 -J-
111+69.7700	0.0300	-0.0300	75.00 -J-
115+84.3300	0.0300	-0.0300	75.00 -J-
117+34.3300	0.0200	-0.0200	75.00 -J-
119+56.9000	0.0200	-0.0200	75.00 -J-
121+06.9000	-0.0200	0.0200	50.00 -J-
121+56.9000	-0.0340	0.0340	50.00 -J-
124+43.6400	-0.0340	0.0340	50.00 -J-
124+93.6400	-0.0200	0.0200	50.00 -J-
126+43.6400	-0.0200	-0.0200	75.00 -J-
135+99.0200	0.0200	-0.0200	75.00 -J-

OFFSET PROFILE CONTROL TO PIVOT POINT = 0.0000 FEET

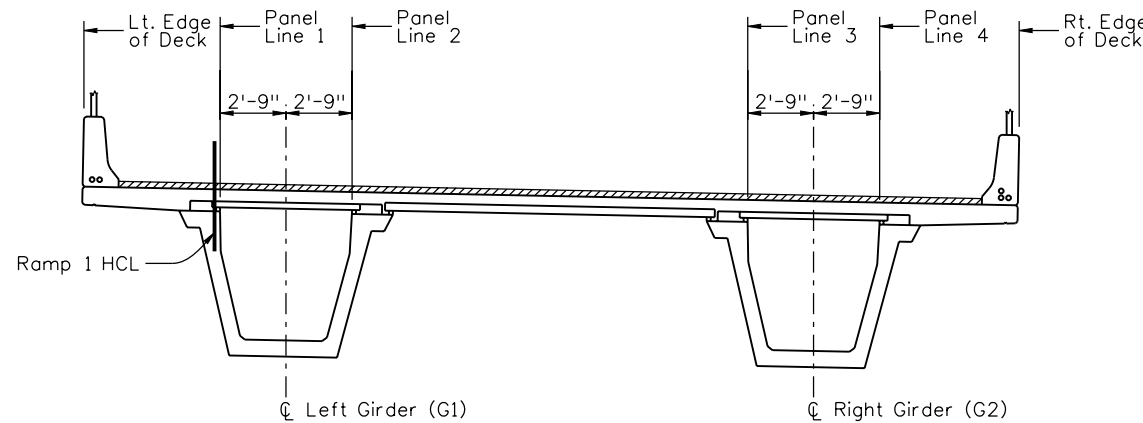
LIMITS OF VALID ELEVATION AND CROSS-SLOPE DATA

BEGIN	110+57.2700	END	135+61.5200
SUPERELEVATION		SUPERELEVATION	

LAYOUT LINE DATA

LAYOUT LINE DEFINED AS BACK TANGENT

LAYOUT LINE INTERSECTS REF LINE AT	HCL STA	OFFSET	X	Y
	110+19.7704	0.00000000	0.0000	0.0000



BRIDGE GEOMETRY LONGITUDINAL LINE DESIGNATION

(Looking Ahead Station)

LONGITUDINAL LINE: Left Edge of Deck

BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	-5.5000	5253.2137	0.0000	1.3083	165.6050	679456.6368	961225.7258	1.3127	0 00 00.00	165.7916	+0.029782
CL Brg A1	111+86.8600	-5.5000	5253.3014	5253.3014	1.4531	167.3538	679458.2419	961225.0167	1.4581	0 00 00.00	167.5464	+0.029815
F-1	112+01.4183	-5.5000	5254.0302	5254.0403	2.7166	181.8971	679471.6188	961219.1718			182.1445	+0.029985
F-2	112+15.9767	-5.5000	5254.7582	5254.7722	4.0854	196.4309	679485.0378	961213.4240			196.7426	+0.030000
F-3	112+30.5350	-5.5000	5255.4861	5255.5011	5.5592	210.9544	679498.4978	961207.7733			211.3407	+0.030000
F-4	112+45.0933	-5.5000	5256.2141	5256.2270	7.1382	225.4669	679511.9986	961202.2203			225.9389	+0.030000
F-5	112+59.6516	-5.5000	5256.9420	5256.9494	8.8221	239.9675	679525.5390	961196.7650			240.5370	+0.030000
F-6	112+74.2100	-5.5000	5257.6699	5257.6689	10.6108	254.4556	679539.1186	961191.4078			255.1351	+0.030000
F-7	112+88.7683	-5.5000	5258.3978	5258.3875	12.5044	268.9304	679552.7366	961186.1491			269.7332	+0.030000
F-8	113+03.3266	-5.5000	5259.1257	5259.1094	14.5026	283.3911	679566.3923	961180.9890			284.3314	+0.030000
F-9	113+17.8850	-5.5000	5259.8536	5259.8394	16.6054	297.8369	679580.0849	961175.9279			288.9295	+0.030000
Pier 2	113+32.4433	-5.5000	5260.5816	5260.5816	18.8127	312.2672	679593.8139	961170.9659	19.0422	0 00 00.00	313.5276	+0.030000
F-1	113+51.5683	-5.5000	5261.5378	5261.5915	21.8710	331.1990	679611.9033	961164.5988			332.7049	+0.030000
F-2	113+70.6933	-5.5000	5262.4941	5262.6084	25.1090	350.1008	679630.0523	961158.4038			351.8822	+0.030000
F-3	113+89.8183	-5.5000	5263.4503	5263.6182	28.5266	368.9710	679648.2594	961152.3817			371.0595	+0.030000
F-4	114+08.9433	-5.5000	5264.4066	5264.6108	32.1234	387.8079	679666.5229	961146.5329			380.2367	+0.030000
F-5	114+28.0683	-5.5000	5265.3628	5265.5802	35.8991	406.6098	679684.8413	961140.8580			409.4140	+0.030000
F-6	114+47.1933	-5.5000	5266.3191	5266.5242	39.8533	425.3749	679703.2127	961135.3574			428.5913	+0.030000
F-7	114+66.3183	-5.5000	5267.2753	5267.4448	43.9858	444.1016	679721.6356	961130.0317			447.7686	+0.030000
F-8	114+85.4433	-5.5000	5268.2316	5268.3477	48.2960	462.7881	679740.1082	961124.8814			466.9459	+0.030000
F-9	115+04.5683	-5.5000	5269.1878	5269.2429	52.7837	481.4329	679758.6291	961119.9069			486.1231	+0.030000
Pier 3	115+23.6933	-5.5000	5270.1441	5270.1441	57.4483	500.0341	679777.1962	961115.1086	59.2985	0 00 00.00	505.3004	+0.030000
F-1	115+38.6933	-5.5000	5270.8941	5270.8782	61.2305	514.5918	679791.7902	961111.4689			520.3414	+0.030000
F-2	115+53.6933	-5.5000	5271.6361	5271.6163	65.1211	529.1208	679806.4108	961107.9381			535.3824	+0.029979
F-3	115+68.6933	-5.5000	5272.3499	5272.3349	69.1199	543.6205	679821.0575	961104.5164			550.4234	+0.029788
F-4	115+83.6933	-5.5000	5273.0344	5273.0282	73.2267	558.0900	679835.7292	961101.2039			565.4644	+0.029396
F-5	115+98.6933	-5.5000	5273.6896	5273.6919	77.4413	572.5284	679850.4252	961098.0011			580.5054	+0.028805
F-6	116+13.6933	-5.5000	5274.3154	5274.3235	81.7633	586.9350	679865.1446	961094.9077			595.5464	+0.028013
F-7	116+28.6933	-5.5000	5274.9121	5274.9228	86.1927	601.3090	679879.8867	961091.9243			610.5875	+0.027042
F-8	116+43.6933	-5.5000	5275.4804	5275.4911	90.7291	615.6496	679894.6507	961089.0508			625.6285	+0.026042
F-9	116+58.6933	-5.5000	5276.0205	5276.0289	95.3723	629.9559	679909.4356	961086.2875			640.6695	+0.025042
BK BRG P4	116+68.5267	-5.5000	5276.3593	5276.3633	98.4740	639.3156	679919.1390	961084.5358	103.8247	0 00 00.00	650.5297	+0.024387
Pier 4	116+71.1100	-5.5000	5276.4463	5276.4485	99.2964	641.7720	679921.6896	961084.0834	104.7368	0 00 00.00	653.1201	+0.024215
AH BRG P4	116+73.6933	-5.5000	5276.5324	5276.5324	100.1220	644.2272	679924.2407	961083.6344	105.6532	0 00 00.00	655.7105	+0.024042
F-1	116+88.3448	-5.5000	5277.0052	5277.0302	104.8639	658.1325	679938.7206	961081.1496			670.4020	+0.023066
F-2	117+02.9964	-5.5000	5277.4511	5277.4961	109.7070	672.0028	679953.2182	961078.7703			685.0936	+0.022106
F-3	117+17.6479	-5.5000	5277.8711	5277.9310	114.6510	685.8375	679967.7328	961076.4967			699.7852	+0.021305
F-4	117+32.2994	-5.5000	5278.2651	5278.3335	119.6956	699.6358	679982.2635	961074.3289			714.4768	+0.020695
F-5	117+46.9854	-5.5000	5278.6341	5278.7026	124.8033	713.4109	679996.8040	961072.2276			729.1683	+0.020274
F-6	117+61.6770	-5.5000	5278.9773	5279.0371	129.9121	727.1856	680011.3447	961070.1274			743.8599	+0.020046
F-7	117+76.3686	-5.5000	5279.2944	5279.3385	135.0208	740.9604	680025.8854	961068.0271			758.5515	+0.020000
F-8	117+91.0601	-5.5000	5279.5847	5279.6098	140.1295	754.7351	680040.4261	961065.9268			773.2431	+0.020000
F-9	118+05.7517	-5.5000	5279.8480	5279.8563	145.2383	768.5098	680054.9667	961063.8266			787.9347	+0.020000
Pier 5	118+20.4433	-5.5000	5280.0842	5280.0842	150.3470	782.2846	680069.5075	961061.7263	160.3540	0 00 00.00	802.6262	+0.020000
F-1	118+37.4850	-5.5000	5280.3242	5280.3342	156.2729	798.2627	680086.3740	961059.2901			819.6679	+0.020000
F-2	118+54.5266	-5.5000	5280.5279	5280.5503	162.1989	814.2409	680103.2407	961056.8540			836.7096	+0.020000
F-3	118+71.5683	-5.5000	5280.6951	5280.7287	168.1248	830.2191	680120.1074	961054.4177			853.7512	+0.020000
F-4	118+88.6100	-5.5000	5280.8260	5280.8657	174.0507	846.1972	680136.9739	961051.9815			870.7929	+0.020000
F-5	119+05.6516	-5.5000	5280.9204	5280.9591	179.9767	862.1754	680153.8406	961049.5453			887.8346	+0.020000
F-6	119+22.6933	-5.5000	5280.9783	5281.0085	185.9026	878.1536	680170.7073	961047.1091			904.8763	+0.019981
F-7	119+39.7350	-5.5000	5280.9960	5281.0125	191.8285	894.1317	680187.5738	961044.6729			921.9179	+0.019265
F-8	119+56.7767	-5.5000	5280.9716	5280.9738	197.7545	910.1099	680204.4405	961042.2367			938.9596	+0.017516
F-9	119+73.8183	-5.5000	5280.9051	5280.8993	203.6804	926.0881	680221.3072	961039.8004			956.0013	+0.014735
Pier 6	119+90.8600	-5.5000	5280.7965	5280.7965	209.6063	942.0662	680238.1737	961037.3642	223.5577	0 00 00.00	973.0429	+0.010922

LONGITUDINAL LINE: HCL					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Panel Line 1					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	0.0000	5253.0499	0.0000	6.7897	165.1536	679458.8615	961230.7557	6.8127	0 00 00.00	165.3396 +/-	-0.29782	BF Abut 1	111+85.1100	0.2500	5253.0425	0.0000	7.0389	165.1331	679458.9627	961230.9844	7.0627	0 00 00.00	165.3191	-0.029782
CL Brg A1	111+86.8600	0.0000	5253.1374	5253.1374	6.9341	166.8976	679460.4623	961230.0486	6.9581	0 00 00.00	167.0896 +/-	-0.29815	CL Brg A1	111+86.8600	0.2500	5253.1299	5253.1299	7.1833	166.8769	679460.5633	961230.2773	7.2081	0 00 00.00	167.0688	-0.029815
F-1	112+01.4183	0.0000	5253.8653	5253.8754	8.1942	181.4013	679473.8028	961224.2197			181.6479 +/-	-0.29985	F-1	112+01.4183	0.2500	5253.8578	5253.8679	8.4432	181.3787	679473.9020	961224.4491			181.6254	-0.029985
F-2	112+15.9767	0.0000	5254.5932	5254.6072	9.5592	195.8954	679487.1850	961218.4875			196.2063 +/-	-0.30000	F-2	112+15.9767	0.2500	5254.5857	5254.5997	9.8081	195.8711	679487.2827	961218.7177			196.1819	-0.030000
F-3	112+30.5350	0.0000	5255.3211		11.0291	210.3793	679500.6084	961212.8523			210.7646 +/-	-0.30000	F-3	112+30.5350	0.2500	5255.3136	5255.3286	11.2777	210.3532	679500.7044	961213.0831			210.7384	-0.030000
F-4	112+45.0933	0.0000	5256.0491	5256.0620	12.6037	224.8522	679514.0723	961207.3143			225.3229 +/-	-0.30000	F-4	112+45.0933	0.2500	5256.0416	5256.0545	12.8522	224.8243	679514.1666	961207.5459			225.2949	-0.030000
F-5	112+59.6516	0.0000	5256.7770	5256.7844	14.2830	239.3133	679527.5758	961201.8739			239.8813 +/-	-0.30000	F-5	112+59.6516	0.2500	5256.7695	5256.7769	14.5312	239.2836	679527.6684	961202.1061			239.8514	-0.030000
F-6	112+74.2100	0.0000	5257.5049	5257.5039	16.0669	253.7619	679541.1184	961196.5314			254.4396 +/-	-0.30000	F-6	112+74.2100	0.2500	5257.4974	5257.4964	16.3149	253.7304	679541.2093	961196.7643			254.4080	-0.030000
F-7	112+88.7683	0.0000	5258.2328	5258.2225	17.9553	268.1972	679554.6993	961191.2870			268.9979 +/-	-0.30000	F-7	112+88.7683	0.2500	5258.2253	5258.2150	18.2031	268.1639	679554.7885	961191.5205			268.9645	-0.030000
F-8	113+03.3266	0.0000	5258.9607	5258.9444	19.9481	282.6185	679568.3178	961186.1410			283.5562 +/-	-0.30000	F-8	113+03.3266	0.2500	5258.9532	5258.9369	20.1956	282.5834	679568.4053	961186.3751			283.5210	-0.030000
F-9	113+17.8850	0.0000	5259.6886	5259.6744	22.0452	297.0250	679581.9732	961181.0936			298.1146 +/-	-0.30000	F-9	113+17.8850	0.2500	5259.6811	5259.6669	22.2924	296.9881	679582.0590	961181.3284			298.0775	-0.030000
Pier 2	113+32.4433	0.0000	5260.4166	5260.4166	24.2465	311.4159	679595.6647	961176.1453	24.5422	0 00 00.00	312.6729 +/-	-0.30000	Pier 2	113+32.4433	0.2500	5260.4091	5260.4091	24.4934	311.3772	679595.7488	961176.3806	24.7922	0 00 00.00	312.6340	-0.030000
F-1	113+51.5683	0.0000	5261.3728	5261.4265	27.2964	330.2961	679613.7047	961169.7954			331.7979 +/-	-0.30000	F-1	113+51.5683	0.2500	5261.3653	5261.4190	27.5430	330.2550	679613.7866	961170.0317			331.7567	-0.030000
F-2	113+70.6933	0.0000	5262.3291	5262.4434	30.5256	349.1464	679631.8043	961163.6174			350.9229 +/-	-0.30000	F-2	113+70.6933	0.2500	5262.3216	5262.4359	30.7718	349.1030	679631.8839	961163.8544			350.8793	-0.030000
F-3	113+89.8183	0.0000	5263.2853	5263.4532	33.9339	367.9652	679649.9618	961157.6117			370.0479 +/-	-0.30000	F-3	113+89.8183	0.2500	5263.2778	5263.4457	34.1796	367.9195	679650.0391	961157.8493			370.0199	-0.030000
F-4	114+08.9433	0.0000	5264.2416	5264.4458	37.5209	386.7507	679668.1755	961151.7788			389.1729 +/-	-0.30000	F-4	114+08.9433	0.2500	5264.2341	5264.4383	37.7662	367.7027	679668.2506	961152.0172			389.1245	-0.030000
F-5	114+28.0683	0.0000	5265.1978	5265.4152	41.2862	405.5013	679686.4438	961146.1193			408.2979 +/-	-0.30000	F-5	114+28.0683	0.2500	5265.1903	5265.4077	41.5311	405.4509	679686.5167	961146.3585			408.2472	-0.030000
F-6	114+47.1933	0.0000	5266.1541	5266.3592	45.2297	424.2153	679704.7652	961140.6337			427.4229 +/-	-0.30000	F-6	114+47.1933	0.2500	5266.1466	5266.3517	45.4741	424.1625	679704.8357	961140.8736			427.3698	-0.030000
F-7	114+66.3183	0.0000	5267.1103	5267.2798	49.3508	442.8909	679723.1378	961135.3225			446.5479 +/-	-0.30000	F-7	114+66.3183	0.2500	5267.1028	5267.2723	49.5947	442.8359	679723.2062	961135.5630			446.4924	-0.030000
F-8	114+85.4433	0.0000	5268.0666	5268.1827	53.6493	461.5265	679741.5601	961130.1862			465.6729 +/-	-0.30000	F-8	114+85.4433	0.2500	5268.0591	5268.1752	53.8927	461.4691	679741.6261	961130.4274			465.6150	-0.030000
F-9	115+04.5683	0.0000	5269.0228	5269.0779	58.1248	480.1204	679760.0305	961125.2253			484.7979 +/-	-0.30000	F-9	115+04.5683	0.2500	5269.0153	5269.0704	58.3675	480.0607	679760.0941	961125.4670			484.7377	-0.030000
Pier 3	115+23.6933	0.0000	5269.9791	5269.9791	62.7767	498.6709	679778.5470	961120.4401	64.7985	0 00 00.00	503.9229 +/-	-0.30000	Pier 3	115+23.6933	0.2500	5269.9716	5269.9716	63.0189	498.6090	679778.6085	961120.6824	65.0485	0 00 00.00	503.8603	-0.030000
F-1	115+38.6933	0.0000	5270.7291	5270.7132	66.5486	513.1889	679793.1012	961116.8104			518.9229 +/-	-0.30000	F-1	115+38.6933	0.2500	5270.7216	5270.7057	66.7903	513.1251	679793.1608	961117.0532			518.8584	-0.030000
F-2	115+53.6933	0.0000	5271.4712	5271.4514	70.4286	527.6784	679807.6821	961113.2892			533.9229 +/-	-0.29979	F-2	115+53.6933	0.2500	5271.4637	5271.4439	70.6698	527.6128	679807.7398	961113.5324			533.8566	-0.029979
F-3	115+68.6933	0.0000	5272.1861	5272.1711	74.4165	542.1385	679822.2887	961109.8768			548.9229 +/-	-0.29788	F-3	115+68.6933	0.2500	5272.1786	5272.1636	74.6572	542.0712	679822.3447	961110.1204			548.8517	-0.029788
F-4	115+83.6933	0.0000	5272.8727	5272.8665	78.5121	556.5685	679836.9204	961106.5734			563.9229 +/-	-0.29396	F-4	115+83.6933	0.2500	5272.8654	5272.8592	78.7523	556.4994	679836.9746	961106.8174			563.8528	-0.029396
F-5	115+98.6933	0.0000	5273.5311	5273.5335	82.7151	570.9676	679851.5763	961103.3792			578.9229 +/-	-0.28805	F-5	115+98.6933	0.2500	5273.5239	5273.5263	82.9549	570.8966	679851.6286	961103.6237			578.8510	-0.028805
F-6	116+13.6933	0.0000	5274.1614	5274.1695	87.0254	585.3349	679866.2556	961100.2943			593.9229 +/-	-0.28013	F-6	116+13.6933	0.2500	5274.1544	5274.1625	87.2646	585.2622	679866.3061	961100.5392			593.8491	-0.028013
F-7	116+28.6933	0.0000	5274.7634	5274.7740	91.4427	599.6697	679880.9575	961097.3190			608.9229 +/-	-0.27042	F-7	116+28.6933	0.2500	5274.7566	5274.7673	91.6814	599.5952	679880.0062	961097.5643			608.8472	-0.027042
F-8	116+43.6933	0.0000	5275.3372	5275.3479	95.9668	613.9712	679895.6813	961094.4534			623.9229 +/-	-0.26042	F-8	116+43.6933	0.2500	5275.3307	5275.3414	96.2048	613.8949	679895.7281	961094.6989			623.8454	-0.026042
F-9	116+58.6933	0.0000	5275.8828	5275.8912	100.5973	628.2386	679910.4259	961091.6975			638.9229 +/-	-0.25042	F-9	116+58.6933	0.2500	5275.8765	5275.8849	100.8348	628.1605	679910.4709	961091.9435			638.8435	-0.025042
BK BRG P4	116+68.5267	0.0000	5276.2252	5276.2292	103.6905	637.5728	679920.1029	961089.9506	109.3247	0 00 00.00	648.7563 +/-	-0.24387	BK BRG P4	116+68.5267	0.2500	5276.2191	5276.2231	103.9276	637.4935	679920.1466	961090.1967	109.5747	0 00 00.00	648.6757	-0.024387
Pier 4	116+71.1100	0.0000	5276.3131	5276.3153	104.5107	640.0224	679922.6465	961089.4995	110.2368	0 00 00.00	651.3396 +/-	-0.24215	Pier 4	116+71.1100	0.2500	5276.3070	5276.3093	104.7477	639.9429	679922.6900	961089.7457	110.4868	0 00 00.00	651.2587	-0.024215
AH BRG P4	116+73.6933	0.0000	5276.4002	5276.4002	105.3340	642.4710	679925.1907	961089.0517	111.1532	0 00 00.00	653.9229 +/-	-0.24042	AH BRG P4	116+73.6933	0.2500	5276.3942	5276.3942	105.5710	642.3911	679925.2338	961089.2981	111.4032	0 00 00.00	653.8416	-0.024042
F-1	116+88.3683	0.0000	5276.8791	5276.9041	110.0707	656.3605	679939.6542	961086.5698			668.5979 +/-	-0.23064	F-1	116+88.3683											

LONGITUDINAL LINE: Panel Line 2					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Panel Line 3					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP
BF Abut 1	111+85.1100	5.7500	5252.8787	0.0000	12.5203	164.6816	679461.1874	961236.0143	12.5627	0 00 00.00	164.8671	-0.029782	BF Abut 1	111+85.1100	22.2500	5252.3873	0.0000	28.9646	163.3272	679467.8614	961251.1043	29.0627	0 00 00.00	163.5112	-0.029782
CL Brg A1	111+86.8600	5.7500	5252.9660	5252.9660	12.6643	166.4206	679462.7855	961235.3092	12.7081	0 00 00.00	166.6121	-0.029815	CL Brg A1	111+86.8600	22.2500	5252.4740	5252.4740	29.1074	165.0519	679469.4444	961250.4049	29.2081	0 00 00.00	165.2418	-0.029815
F-1	112+01.4183	5.7500	5253.6929	5253.7029	13.9208	180.8828	679476.0858	961229.4970			181.1288	-0.029985	F-1	112+01.4183	22.2500	5253.1982	5253.2082	30.3536	179.3952	679482.6374	961244.6405			179.6391	-0.029985
F-2	112+15.9767	5.7500	5254.4207	5254.4347	15.2819	195.3356	679489.4299	961223.7811			195.6455	-0.030000	F-2	112+15.9767	22.2500	5253.9257	5253.9397	31.7035	193.7291	679495.8717	961238.9717			194.0365	-0.030000
F-3	112+30.5350	5.7500	5255.1486		16.7476	209.7781	679502.8150	961218.1621			210.1623	-0.030000	F-3	112+30.5350	22.2500	5254.6536	5254.6686	33.1571	208.0528	679509.1467	961233.3988			208.4338	-0.030000
F-4	112+45.0933	5.7500	5255.8766	5255.8895	18.3177	224.2096	679516.2403	961212.6399			224.6790	-0.030000	F-4	112+45.0933	22.2500	5255.3816	5255.3945	34.7143	222.3657	679522.4617	961227.9220			222.8312	-0.030000
F-5	112+59.6516	5.7500	5256.6045	5256.6119	19.9922	238.6294	679529.7053	961207.2151			239.1957	-0.030000	F-5	112+59.6516	22.2500	5256.1095	5256.1169	36.3751	236.6669	679535.8159	961222.5419			237.2285	-0.030000
F-6	112+74.2100	5.7500	5257.3324	5257.3314	21.7710	253.0367	679543.2092	961201.8878			253.7124	-0.030000	F-6	112+74.2100	22.2500	5256.8374	5256.8364	38.1392	250.9557	679549.2087	961217.2584			251.6258	-0.030000
F-7	112+88.7683	5.7500	5258.0603	5258.0500	23.6540	267.4308	679556.7513	961196.6584			268.1292	-0.030000	F-7	112+88.7683	22.2500	5257.5653	5257.5550	40.0067	265.2313	679562.6393	961212.0720			266.0232	-0.030000
F-8	113+03.3266	5.7500	5258.7882	5258.7719	25.6411	281.8108	679570.3308	961191.5271			282.7459	-0.030000	F-8	113+03.3266	22.2500	5258.2932	5258.2769	41.9775	279.4931	679576.1073	961206.9829			280.4205	-0.030000
F-9	113+17.8850	5.7500	5259.5161	5259.5019	27.7322	296.1761	679583.9471	961186.4942			297.2626	-0.030000	F-9	113+17.8850	22.2500	5259.0211	5259.0069	44.0514	293.7403	679589.6116	961201.9914			294.8178	-0.030000
Pier 2	113+32.4433	5.7500	5260.2441	5260.2441	29.9272	310.5259	679597.5955	961181.5600	30.2922	0 00 00.00	311.7793	-0.030000	Pier 2	113+32.4433	22.2500	5259.7491	5259.7491	46.2283	307.9721	679603.1517	961197.0977	46.7922	0 00 00.00	309.2152	-0.030000
F-1	113+51.5683	5.7500	5261.2003	5261.2540	32.9684	329.3521	679615.5880	961175.2283			330.9200	-0.030000	F-1	113+51.5683	22.2500	5260.7053	5260.7590	49.2445	326.6434	679620.9922	961190.8181			328.1287	-0.030000
F-2	113+70.6933	5.7500	5262.1566	5262.2709	36.1884	348.1486	679633.6359	961169.0679			349.8400	-0.030000	F-2	113+70.6933	22.2500	5261.6616	5261.7759	52.4380	345.2853	679638.8916	961184.7084			347.0422	-0.030000
F-3	113+89.8183	5.7500	5263.1128	5263.2807	39.5869	366.9136	679651.7414	961163.0793			368.9904	-0.030000	F-3	113+89.8183	22.2500	5262.6178	5262.7857	55.8086	363.8960	679656.8484	961178.7691			365.9557	-0.030000
F-4	114+08.9433	5.7500	5264.0691	5264.2733	43.1636	385.6454	679669.9031	961157.2631			388.0607	-0.030000	F-4	114+08.9433	22.2500	5263.5741	5263.7783	59.3559	362.4738	679674.8607	961173.0007			384.8692	-0.030000
F-5	114+28.0683	5.7500	5265.0253	5265.2427	46.9183	404.3424	679688.1193	961151.6199			407.1310	-0.030000	F-5	114+28.0683	22.2500	5264.5303	5264.7477	63.0797	401.0170	679692.9270	961167.4039			403.7827	-0.030000
F-6	114+47.1933	5.7500	5265.9816	5266.1867	50.8504	423.0029	679706.3882	961146.1499			426.2014	-0.030000	F-6	114+47.1933	22.2500	5265.4866	5265.6917	66.9795	419.5240	679711.0457	961161.9789			422.6962	-0.030000
F-7	114+66.3183	5.7500	5266.9378	5267.1073	54.9598	441.6252	679724.7084	961140.8539			445.2717	-0.030000	F-7	114+66.3183	22.2500	5266.4428	5266.6123	71.0551	437.9931	679729.2152	961156.7265			441.6097	-0.030000
F-8	114+85.4433	5.7500	5267.8941	5268.0102	59.2460	460.2075	679743.0780	961135.7323			464.3421	-0.030000	F-8	114+85.4433	22.2500	5267.3991	5267.5152	75.3060	456.4226	679747.4337	961151.6470			460.5232	-0.030000
F-9	115+04.5683	5.7500	5268.8503	5268.9054	63.7087	478.7463	679761.4956	961130.7855			483.4124	-0.030000	F-9	115+04.5683	22.2500	5268.3553	5268.4104	79.7320	474.8109	679765.6998	961146.7409			479.4367	-0.030000
Pier 3	115+23.6933	5.7500	5269.8066	5269.8066	68.3473	497.2458	679779.9593	961126.0140	70.5485	0 00 00.00	502.4828	-0.030000	Pier 3	115+23.6933	22.2500	5269.3116	5269.3116	84.3325	493.1563	679784.0117	961142.0086	87.0485	0 00 00.00	498.3502	-0.030000
F-1	115+38.6933	5.7500	5270.5566	5270.5407	72.1084	511.7223	679794.4718	961122.3946			517.4399	-0.030000	F-1	115+38.6933	22.2500	5270.0616	5270.0457	88.0627	507.5137	679798.4049	961138.4191			513.1843	-0.030000
F-2	115+53.6933	5.7500	5271.2988	5271.2790	75.9773	526.1704	679809.0110	961118.8835			532.3970	-0.029979	F-2	115+53.6933	22.2500	5270.8042	5270.7843	91.8997	521.8430	679812.8245	961134.9367			528.0184	-0.029979
F-3	115+68.6933	5.7500	5272.0148	5271.9998	79.9538	540.5892	679823.5759	961115.4808			547.3542	-0.029788	F-3	115+68.6933	22.2500	5271.5233	5271.5083	95.8435	526.1432	679827.2696	961131.5621			542.8526	-0.029788
F-4	115+83.6933	5.7500	5272.7037	5272.6975	84.0377	554.9779	679838.1657	961112.1869			562.3113	-0.029396	F-4	115+83.6933	22.2500	5272.2186	5272.2125	99.8938	550.4136	679841.7394	961128.2952			557.6867	-0.029396
F-5	115+98.6933	5.7500	5273.3655	5273.3679	88.2288	569.3359	679852.7799	961109.0019			577.2646	-0.028805	F-5	115+98.6933	22.2500	5272.8902	5272.8926	104.0504	564.6535	679856.2334	961125.1363			572.5208	-0.028805
F-6	116+13.6933	5.7500	5274.0003	5274.0084	92.5267	583.6621	679867.4172	961105.9258			592.2256	-0.028013	F-6	116+13.6933	22.2500	5273.5381	5273.5462	108.3131	578.8619	679870.7503	961122.0857			587.3549	-0.028013
F-7	116+28.6933	5.7500	5274.6079	5274.6185	96.9314	597.9560	679882.0771	961102.9590			607.1827	-0.027042	F-7	116+28.6933	22.2500	5274.1617	5274.1723	112.6815	593.0382	679885.2897	961119.1432			602.1890	-0.027042
F-8	116+43.6933	5.7500	5275.1874	5275.1982	101.4425	612.2166	679896.7587	961100.1015			622.1398	-0.026042	F-8	116+43.6933	22.2500	5274.7577	5274.7685	117.1555	607.1815	679899.8505	961116.3093			617.0232	-0.026042
F-9	116+58.6933	5.7500	5275.7388	5275.7472	106.0598	626.4431	679911.4612	961097.3536			637.0970	-0.025042	F-9	116+58.6933	22.2500	5275.3256	5275.3340	121.7348	621.2911	679914.4321	961113.5839			631.8573	-0.025042
BK BRG P4	116+68.5267	5.7500	5276.0849	5276.0890	109.1442	635.7507	679921.1106	961095.6116	115.0747	0 00 00.00	646.9023	-0.024387	BK BRG P4	116+68.5267	22.2500	5275.6826	5275.6866	124.7939	630.5221	679924.0021	961111.8563	131.5747	0 00 00.00	641.5819	-0.024387
Pier 4	116+71.1100	5.7500	5276.1739	5276.1761	109.9620	638.1933	679923.6468	961095.1618	115.9868	0 00 00.00	649.4782	-0.024215	Pier 4	116+71.1100	22.2500	5275.7743	5275.7765	125.6050	632.9446	679926.5176	961111.4103	132.4868	0 00 00.00	644.1367	-0.024215
AH BRG P4	116+73.6933	5.7500	5276.2619	5276.2619	110.7830	640.6349	679926.1838	961094.7153	116.9032	0 00 00.00	652.0541	-0.024042	AH BRG P4	116+73.6933	22.2500	5275.8652	5275.8652	126.4192	635.3661	679929.0336	961110.9674	133.4032	0 00 00.00	646.6914	-0.024042
F-1	116+88.3930	5.7500	5276.7472	5276.7723	115.5142	654.5080	679940.6303	961092.2365																	

LONGITUDINAL LINE: Panel Line 4					PARALLEL TO HORIZONTAL CONTROL					0.750000 FEET BELOW FINISHED GRADE					LONGITUDINAL LINE: Right Edge of Deck					PARALLEL TO HORIZONTAL CONTROL					0.750000 FEET BELOW FINISHED GRADE				
BENT LINE	STATION	OFFSET	ELEVATION	ELEV-H/L	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV-H/L	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP				
BF Abut 1	111+85.1100	27.7500	5252.2235	0.0000	34.4461	162.8757	679470.0861	961256.1343	34.5627	0 00 00.00	163.0592	-0.029782	BF Abut 1	111+85.1100	33.5000	5252.0522	0.0000	40.1767	162.4037	679472.4119	961261.3930	40.3127	0 00 00.00	162.5867	-0.029782				
CL Brg A1	111+86.8600	27.7500	5252.3100	5252.3100	34.5885	164.5957	679471.6648	961255.4369	34.7081	0 00 00.00	164.7851	-0.029815	CL Brg A1	111+86.8600	33.5000	5252.1386	5252.1386	40.3187	164.1187	679473.9860	961260.6976	40.4581	0 00 00.00	164.3075	-0.029815				
F-1	112+01.4183	27.7500	5253.0332	5253.0433	35.8312	178.8993	679484.8213	961249.6884			179.1426	-0.029985	F-1	112+01.4183	33.5000	5252.8608	5252.8709	41.5578	178.3809	679487.1044	961254.9657			178.6235	-0.029985				
F-2	112+15.9767	27.7500	5253.7607	5253.7747	37.1774	193.1936	679498.0190	961244.0352			193.5001	-0.030000	F-2	112+15.9767	33.5000	5253.5882	5253.6022	42.9001	192.6338	679500.2639	961249.3289			192.9394	-0.030000				
F-3	112+30.5350	27.7500	5254.4886	5254.5036	38.6270	207.4777	679511.2573	961238.4778			207.8577	-0.030000	F-3	112+30.5350	33.5000	5254.3161	5254.3311	44.3455	206.8765	679513.4638	961243.7875			207.2553	-0.030000				
F-4	112+45.0933	27.7500	5255.2166	5255.2295	40.1799	221.7510	679524.5354	961233.0162			222.2152	-0.030000	F-4	112+45.0933	33.5000	5255.0441	5255.0570	45.8939	221.1084	679526.7035	961238.3418			221.5713	-0.030000				
F-5	112+59.6516	27.7500	5255.9445	5255.9519	41.8360	236.0127	679537.8528	961227.6508			236.5727	-0.030000	F-5	112+59.6516	33.5000	5255.7720	5255.7794	47.5452	235.3288	679539.9822	961232.9919			235.8872	-0.030000				
F-6	112+74.2100	27.7500	5256.6724	5256.6714	43.5953	250.2620	679551.2086	961222.3819			250.9303	-0.030000	F-6	112+74.2100	33.5000	5256.4999	5256.4989	49.2994	249.5368	679553.2993	961227.7384			250.2031	-0.030000				
F-7	112+88.7683	27.7500	5257.4003	5257.3900	45.4577	264.4982	679564.6021	961217.2099			265.2788	-0.030000	F-7	112+88.7683	33.5000	5257.2278	5257.2175	51.1563	263.7317	679566.6540	961222.5813			264.5191	-0.030000				
F-8	113+03.3266	27.7500	5258.1282	5258.1119	47.4230	278.7206	679578.0328	961212.1349			279.6454	-0.030000	F-8	113+03.3266	33.5000	5257.9557	5257.9394	53.1160	277.9129	679580.0458	961217.5210			278.8350	-0.030000				
F-9	113+17.8850	27.7500	5258.8561	5258.8419	49.4911	292.9283	679591.4397	961207.1571			294.6629	-0.030000	F-9	113+17.8850	33.5000	5258.6836	5258.6694	55.1781	292.0795	679593.4738	961212.5576			293.1509	-0.030000				
Pier 2	113+32.4433	27.7500	5259.5841	5259.5841	51.6620	307.1208	679605.0025	961202.2769	52.2922	0 00 00.00	308.3604	-0.030000	Pier 2	113+32.4433	33.5000	5259.4116	5259.4116	57.3427	306.2308	679606.9373	961207.6916	58.0422	0 00 00.00	307.4669	-0.030000				
F-1	113+51.5683	27.7500	5260.5403	5260.5940	54.6699	325.7405	679622.7936	961196.0148			327.2217	-0.030000	F-1	113+51.5683	33.5000	5260.3678	5260.4215	60.3419	324.7966	679624.6770	961201.4476			326.2734	-0.030000				
F-2	113+70.6933	27.7500	5261.4966	5261.6109	57.8546	344.3309	679640.6436	961189.9219			346.0829	-0.030000	F-2	113+70.6933	33.5000	5261.3241	5261.4384	63.5173	343.3331	679642.4752	961195.3724			345.0800	-0.030000				
F-3	113+89.8183	27.7500	5262.4528	5262.6207	61.2158	362.8901	679658.5506	961183.9990			364.9441	-0.030000	F-3	113+89.8183	33.5000	5262.2803	5262.4482	66.8689	361.8385	679660.3303	961189.4667			363.8866	-0.030000				
F-4	114+08.9433	27.7500	5263.4091	5263.6133	64.7534	381.4166	679676.5136	961178.2466			383.8053	-0.030000	F-4	114+08.9433	33.5000	5263.2366	5263.4408	70.3961	360.3113	679678.2408	961183.7309			382.6931	-0.030000				
F-5	114+28.0683	27.7500	5264.3653	5264.5827	68.4668	399.9085	679694.5296	961172.6652			402.6666	-0.030000	F-5	114+28.0683	33.5000	5264.1928	5264.4102	74.0988	398.7497	679696.2050	961178.1656			401.4997	-0.030000				
F-6	114+47.1933	27.7500	5265.3216	5265.5267	72.3559	418.3644	679712.5983	961167.2553			421.5278	-0.030000	F-6	114+47.1933	33.5000	5265.1491	5265.3542	77.9766	417.1520	679714.2213	961172.7714			420.3063	-0.030000				
F-7	114+66.3183	27.7500	5266.2778	5266.4473	76.4202	436.7824	679730.7175	961162.0174			440.3890	-0.030000	F-7	114+66.3183	33.5000	5266.1053	5266.2748	82.0292	435.5167	679732.2881	961167.5487			439.1128	-0.030000				
F-8	114+85.4433	27.7500	5267.2341	5267.3502	80.6594	455.1610	679748.8857	961156.9519			459.2502	-0.030000	F-8	114+85.4433	33.5000	5267.0616	5267.1777	86.2561	453.8420	679750.4036	961162.4980			457.9194	-0.030000				
F-9	115+04.5683	27.7500	5268.1903	5268.2454	85.0731	473.4985	679767.1013	961152.0593			478.1114	-0.030000	F-9	115+04.5683	33.5000	5268.0178	5268.0729	90.6570	472.1263	679768.5664	961157.6196			476.7260	-0.030000				
Pier 3	115+23.6933	27.7500	5269.1466	5269.1466	89.6609	491.7931	679785.3625	961147.5402	92.5485	0 00 00.00	496.9727	-0.030000	Pier 3	115+23.6933	33.5000	5268.9741	5268.9741	95.2315	490.3680	679786.7747	961152.9141	98.2985	0 00 00.00	495.5325	-0.030000				
F-1	115+38.6933	27.7500	5269.8966	5269.8807	93.2807	506.1109	679799.7159	961143.7604			511.7658	-0.030000	F-1	115+38.6933	33.5000	5269.7241	5269.7082	98.9406	504.6443	679801.0866	961149.3447			510.2828	-0.030000				
F-2	115+53.6933	27.7500	5270.6393	5270.6195	97.2072	520.4005	679814.0956	961140.2878			526.5589	-0.029979	F-2	115+53.6933	33.5000	5270.4669	5270.4471	102.7559	518.8925	679815.4246	961145.8821			525.0330	-0.029979				
F-3	115+68.6933	27.7500	5271.3595	5271.3445	101.1401	534.6612	679828.5008	961136.9225			541.3217	-0.029788	F-3	115+68.6933	33.5000	5271.1882	5271.1732	106.6774	533.1119	679829.7881	961142.5265			539.7833	-0.029788				
F-4	115+83.6933	27.7500	5272.0570	5272.0508	105.1792	548.8922	679842.9307	961133.6647			556.1451	-0.029396	F-4	115+83.6933	33.5000	5271.8879	5271.8818	110.7049	547.3016	679844.1761	961139.2783			554.5335	-0.029396				
F-5	115+98.6933	27.7500	5272.7318	5272.7342	109.3243	563.0927	679857.3845	961130.5145			570.9033	-0.028805	F-5	115+98.6933	33.5000	5272.5662	5272.5685	114.8379	547.4609	679858.5880	961136.1372			569.2880	-0.028805				
F-6	116+13.6933	27.7500	5273.3840	5273.3921	113.5752	577.2618	679871.8614	961127.4723			585.7314	-0.028013	F-6	116+13.6933	33.5000	5273.2229	5273.2310	119.0765	575.5890	679873.0229	961133.1038			584.0340	-0.028013				
F-7	116+28.6933	27.7500	5274.0129	5274.0236	117.9315	591.3989	679886.3605	961124.5379			600.5245	-0.027042	F-7	116+28.6933	33.5000	5273.8575	5273.8681	123.4202	589.6852	679887.4801	961130.1779			598.7843	-0.027042				
F-8	116+43.6933	27.7500	5274.6145	5274.6252	122.3932	605.5032	679900.8812	961121.7118			615.3176	-0.026042	F-8	116+43.6933	33.5000	5274.4648	5274.4755	127.8689	603.7485	679901.9586	961127.3600			613.5345	-0.026042				
F-9	116+58.6933	27.7500	5275.1879	5275.1962	126.9598	619.5737	679915.4224	961118.9940			630.1107	-0.025042	F-9	116+58.6933	33.5000	5275.0439	5275.0522	132.4223	617.7783	679916.4577	961124.6500			628.2848	-0.025042				
BK BRG P4	116+68.5267	27.7500	5275.5484	5275.5525	130.0104	628.7792	679924.9659	961117.2712	137.0747	0 00 00.00	639.8085	-0.024387	BK BRG P4	116+68.5267	33.5000	5275.4082	5275.4122	135.4641	626.9571	679925.9736	961122.9322	142.8247	0 00 00.00	637.9544	-0.024387				
Pier 4	116+71.1100	27.7500	5275.6411	5275.6434	130.8193	631.1950	679927.4744	961116.8264	137.9868	0 00 00.00	642.3562	-0.024215	Pier 4	116+71.1100	33.5000	5275.5019	5275.5041	136.2706	629.3660	679928.4749	961122.4886	143.7368	0 00 00.00	640.4947	-0.024215				
AH BRG P4	116+73.6933	27.7500	5275.7330	5275.7330	131.6312	633.6099	679929.9836	961116.3847	138.9032	0 00 00.00	644.9038	-0.024042	AH BRG P4	116+73.6933	33.5000	5275.5948	5275.5948	137.0802	631.7738	679930.9767	961122.0483	144.6532	0 00 00.00	643.0350	-0.024042				
F-1	116+88.4887	27.7500	5276.2431	5276.2681	136.3414																								

STRUCTURE ID: F-16-XR BRIDGE GEOMETRY (WIN2.1.0e) 10/11/21 20:59

DESCRIPTION

Units: feet;
 Project: BR 0252-407; Subaccount: 17783;
 Designer: J. JOHNSON; Detailer: FHU;
 Location: DENVER;
 Ramp 1 Flyover - I-25/Santa Fe Interchange
 Top of Precast Panels over Precast Girders

HORIZONTAL ALIGNMENT DATA

PC 121+06.8989 T 195.1843
 PI 123+02.0832 Lc 386.7458 DELTA 19 06 09.01 LT Dc 4 56 21.45 RADIUS 1160.000000
 PT 124+93.6447 T 195.1843

VERTICAL ALIGNMENT DATA

ELEVATION AT PI	ELEVATION AT GRADE	STATION	ELEVATION AT GRADE	ELEVATION AT PI	PERCENT GRADE
		115+42.5000	PC 5271.6694		5.000000
		118+80.0000	PI 5281.4044	5288.5444	
		122+17.5000	PT 5276.8595		-3.462200

TABLE OF ROADWAY CROSS-SLOPES (SUPERELEVATION: E= -NC-)

STATION (ON TANGENT)	SLOPE LEFT	SLOPE RIGHT	VC LENGTH
	0.0000	0.0000	75.00 (MAX)
110+19.7700	0.0200	-0.0200	75.00 -U-
111+69.7700	0.0300	-0.0300	75.00 -U-
115+84.3300	0.0300	-0.0300	75.00 -U-
117+34.3300	0.0200	-0.0200	75.00 -U-
119+56.9000	0.0200	-0.0200	75.00 -U-
121+06.9000	-0.0200	0.0200	50.00 -U-
121+56.9000	-0.0340	0.0340	50.00 -U-
124+43.6400	-0.0340	0.0340	50.00 -U-
124+93.6400	-0.0200	0.0200	50.00 -U-
126+43.6400	-0.0200	-0.0200	75.00 -U-
135+99.0200	0.0200	-0.0200	75.00 -U-

OFFSET PROFILE CONTROL TO PIVOT POINT = 0.0000 FEET

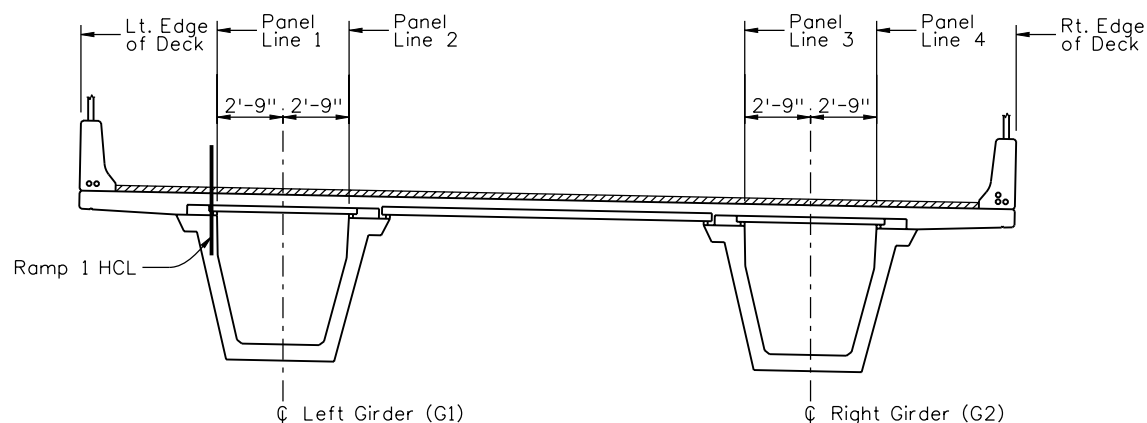
LIMITS OF VALID ELEVATION AND CROSS-SLOPE DATA

BEGIN 110+57.2700 SUPERELEVATION
 END 135+61.5200 SUPERELEVATION

LAYOUT LINE DATA

LAYOUT LINE DEFINED AS BACK TANGENT

LAYOUT LINE INTERSECTS REF LINE AT HCL STA 119+90.8600 OFFSET 0.00000000 X 0.0000 Y 0.0000



BRIDGE GEOMETRY LONGITUDINAL LINE DESIGNATION

(Looking Ahead Station)

LONGITUDINAL LINE: Left Edge of Deck

BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	-5.5000	5280.7965	5280.7965	-5.5000	0.0000	680238.1738	961037.3642	-5.5000	0 00 00.00	0.0000	+0.010922
F-1	120+10.1484	-5.5000	5280.6253	5280.6729	-5.5000	19.2884	680257.2641	961034.6068			19.2884	+0.005800
F-2	120+29.4368	-5.5000	5280.4073	5280.5160	-5.5000	38.5768	680276.3543	961031.8494			38.5768	+0.000657
F-3	120+48.7252	-5.5000	5280.1426	5280.3039	-5.5000	57.8652	680295.4446	961029.0920			57.8652	-0.004487
F-4	120+68.0136	-5.5000	5279.8313	5270.0245	-5.5000	77.1536	680314.5349	961026.3346			77.1536	-0.009630
F-5	120+87.3020	-5.5000	5279.4733	5279.6734	-5.5000	96.4420	680333.6252	961023.5772			96.4420	-0.014778
F-6	121+06.5903	-5.5000	5278.0683	5279.2517	-5.5000	115.7303	680352.7154	961020.8198			115.7303	-0.019999
F-7	121+25.9692	-5.5000	5278.6139	5278.7623	-5.5000	135.0179	680371.7826	961017.9081			135.0179	-0.025344
F-8	121+45.3494	-5.5000	5278.1147	5278.2167	-6.1342	154.3001	680390.7984	961014.6783			154.3001	-0.030259
F-9	121+64.7297	-5.5000	5277.5795	5277.6305	-6.9344	173.5717	680409.7577	961011.1313			173.5717	-0.033175
Pier 7	121+84.1100	-5.5000	5277.0086	5277.0086	-8.0565	192.8272	680428.6550	961007.2681	-8.0744	0 00 00.00	192.8839	-0.034000
F-1	121+98.2350	-5.5000	5276.5662	5276.5553	-9.0769	206.8480	680442.3859	961004.2538			206.9419	-0.034000
F-2	122+12.3600	-5.5000	5276.0988	5276.0925	-10.2680	220.8554	680456.0792	961001.0725			221.0000	-0.034000
F-3	122+26.4850	-5.5000	5275.6114	5275.6203	-11.6295	234.8473	680469.7327	960997.7247			235.0580	-0.034000
F-4	122+40.6100	-5.5000	5275.1224	5275.1502	-13.1613	248.8215	680483.3444	960994.2110			249.1160	-0.034000
F-5	122+54.7350	-5.5000	5274.6333	5274.6777	-14.8631	262.7761	680496.9124	960990.5318			263.1741	-0.034000
F-6	122+68.8600	-5.5000	5274.1443	5274.1981	-16.7348	276.7089	680510.4345	960986.6875			277.2321	-0.034000
F-7	122+82.9850	-5.5000	5273.6553	5273.7093	-18.7759	290.6178	680523.9088	960982.6790			291.2901	-0.034000
F-8	122+97.1100	-5.5000	5273.1662	5273.2110	-20.9862	304.5009	680537.3333	960978.5067			305.3481	-0.034000
F-9	123+11.2350	-5.5000	5272.6772	5272.7039	-23.3655	318.3561	680550.7061	960974.1712			319.4062	-0.034000
BK Brg PB	123+20.1933	-5.5000	5272.3670	5272.3779	-24.9618	327.1278	680559.1595	960971.3373	-25.3898	0 00 00.00	319.4062	-0.034000
Pier 8	123+22.7767	-5.5000	5272.2776	5272.2832	-25.4347	329.6551	680561.5932	960970.5080	-25.8816	0 00 00.00	330.8931	-0.034000
AH Brg PB	123+25.3600	-5.5000	5272.1881	5272.1881	-25.9132	332.1812	680564.0250	960969.6733	-26.3797	0 00 00.00	333.4642	-0.034000
F-1	123+37.0350	-5.5000	5271.7839	5271.7855	-28.1460	343.5843	680574.9917	960965.8333			345.0838	-0.034000
F-2	123+48.7100	-5.5000	5271.3797	5271.3793	-30.4935	354.9643	680585.9193	960961.8830			356.7035	-0.034000
F-3	123+60.3850	-5.5000	5270.9755	5270.9705	-32.9554	366.3201	680596.8065	960957.8230			368.3231	-0.034000
F-4	123+72.0600	-5.5000	5270.5713	5270.5599	-35.5314	377.6505	680607.6523	960953.6537			379.9428	-0.034000
F-5	123+83.7350	-5.5000	5270.1671	5270.1483	-38.2213	388.9545	680618.4556	960949.3755			391.5624	-0.034000
F-6	123+95.4100	-5.5000	5269.7629	5269.7374	-41.0249	400.2308	680629.2153	960944.9887			403.1821	-0.034000
F-7	124+07.0850	-5.5000	5269.3587	5269.3295	-43.9418	411.4783	680639.9303	960940.4938			414.8017	-0.034000
F-8	124+18.7600	-5.5000	5268.9545	5268.9273	-46.9718	422.6959	680650.5995	960935.8913			426.4213	-0.034000
F-9	124+30.4350	-5.5000	5268.5503	5268.5350	-50.1145	433.8824	680661.2219	960931.1817			438.0410	-0.033610
Pier 9	124+42.1100	-5.5000	5268.1461	5268.1545	-53.3697	445.0367	680671.7962	960926.3654	-55.6783	0 00 00.00	449.6606	-0.032458
F-1	124+53.7850	-5.5000	5267.7419	5267.7301	-56.6362	456.1610	680682.3209	960921.8355			461.3362	-0.029240
F-2	124+65.4600	-5.5000	5267.3377	5267.3259	-60.0000	467.2853	680692.8464	960917.3056			485.0118	-0.024494
F-3	124+77.1350	-5.5000	5266.9335	5266.9217	-63.4642	478.3696	680703.3719	960912.7757			502.6873	-0.019608
F-4	124+88.8100	-5.5000	5266.5293	5266.5175	-67.0284	489.4539	680713.8974	960908.2458			520.3629	-0.014826
F-5	124+99.4850	-5.5000	5266.1251	5266.1133	-70.6926	500.5386	680724.4231	960903.7159			538.0385	-0.010109
F-6	125+10.1600	-5.5000	5265.7209	5265.7091	-74.4568	511.6233	680734.9486	960899.1860			555.7140	-0.005395
F-7	125+20.8350	-5.5000	5265.3167	5265.3049	-78.3210	522.7080	680745.4741	960894.6561			573.3896	-0.000682
F-8	125+31.5100	-5.5000	5264.9125	5264.9007	-82.2852	533.7927	680755.9996	960890.1262			591.0652	+0.004032
F-9	125+42.1850	-5.5000	5264.5083	5264.4965	-86.3494	544.8774	680766.5251	960885.5963			608.7407	+0.008745
Pier 10	125+52.8600	-5.5000	5264.1041	5264.0923	-90.5136	555.9621	680777.0506	960881.0664	-116.5505	0 00 00.00	626.4163	+0.013160
F-1	126+03.5350	-5.5000	5263.6999	5263.6881	-94.7778	567.0468	680787.5761	960876.5315			645.1163	+0.016662
F-2	126+14.2100	-5.5000	5263.2957	5263.2839	-99.1420	578.1315	680798.1016	960872.0066			663.8163	+0.018922
F-3	126+24.8850	-5.5000	5262.8915	5262.8797	-103.6062	589.2162	680808.6267	960867.4817			682.5163	+0.019937
F-4	126+35.5600	-5.5000	5262.4873	5262.4755	-108.1704	600.3009	680819.1518	960862.9568			701.2163	+0.020000
F-5	127+12.6100	-5.5000	5259.0778	5259.2687	-140.7314	700.7675	680912.4115	960803.3427			719.9163	+0.020000
F-6	127+31.3100	-5.5000	5258.4303	5258.6245	-146.8511	718.4378	680929.0255	960794.7598			738.6163	+0.020000
F-7	127+50.0100	-5.5000	5257.7829	5257.9796	-152.9709	736.1080	680945.6394	960786.1768			757.3163	+0.020000
F-8	127+68.7100	-5.5000	5257.1355	5257.3336	-159.0906	753.7783	680962.2533	960777.5938			776.0163	+0.020000
F-9	127+87.4100	-5.5000	5256.4881	5256.6872	-165.2104	771.4486	680978.8673	960769.0108			794.7163	+0.020000
Pier 11	128+06.1100	-5.5000	5255.8406	5255.8406	-171.3301	789.1189	680995.4812	960760.4279	-181.3142	0 00 00.00	813.4163	+0.020000
F-1	128+19.4100	-5.5000	5255.3801	5255.3376	-175.6827	801.6865	681007.2975	960754.3234			826.7163	+0.020000
F-2	128+32.7100	-5.5000	5254.9197	5254.8546	-180.0352	814.2541	681019.1138	960748.2190			840.0163	+0.020000
F-3	128+46.0100	-5.5000	5254.4592	5254.3861	-184.3877	826.8218	681030.9302	960742.1146			853.3163	+0.020000
F-4	128+59.3100	-5.5000	5253.9987	5253.92								

LONGITUDINAL LINE: HCL					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Panel Line 1					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	0.0000	5280.7365	5280.7365	0.0000	0.0000	680238.9600	961042.8077	0.0000	0 00 00.00	0.0000	+/- .010922	Pier 6	119+90.8600	0.2500	5280.7337	5280.7337	0.2500	0.0000	680238.9958	961043.0551	0.2500	0 00 00.00	0.0000	-0.010922
F-1	120+10.1850	0.0000	5280.5931	5280.6407	0.0000	19.3250	680258.0865	961040.0450			19.3250	+/- .005791	F-1	120+10.1867	0.2500	5280.5916	5280.6393	0.2500	19.3267	680258.1240	961040.2922			19.3267	-0.005790
F-2	120+29.5100	0.0000	5280.4028	5280.5116	0.0000	38.6500	680277.2131	961037.2824			38.6500	+/- .000637	F-2	120+29.5133	0.2500	5280.4026	5280.5114	0.2500	38.6533	680277.2521	961037.5294			38.6533	-0.000636
F-3	120+48.8350	0.0000	5280.1658	5280.3271	0.0000	57.9750	680296.3396	961034.5198			57.9750	+/- .004516	F-3	120+48.8400	0.2500	5280.1669	5280.3282	0.2500	57.9800	680296.3803	961034.7665			57.9800	+0.004517
F-4	120+68.1600	0.0000	5279.8819	5279.0751	0.0000	77.3000	680315.4661	961031.7572			77.3000	+/- .009669	F-4	120+68.1667	0.2500	5279.8843	5279.0775	0.2500	77.3067	680315.5085	961032.0036			77.3067	+0.009671
F-5	120+87.4850	0.0000	5279.5513	5279.7513	0.0000	96.6250	680334.5926	961028.9945			96.6250	+/- .014827	F-5	120+87.4933	0.2500	5279.5548	5279.7549	0.2500	96.6333	680334.6366	961029.2408			96.6333	+0.014829
F-6	121+06.8100	0.0000	5279.1738	5279.3572	0.0000	115.9500	680353.7191	961026.2319			115.9500	+/- .020059	F-6	121+06.8200	0.2500	5279.1786	5279.3620	0.2500	115.9600	680353.7647	961026.4779			115.9600	+0.020061
F-7	121+26.1350	0.0000	5278.7495	5278.8978	-0.1595	135.2741	680372.8219	961023.3115			135.2741	+/- .025390	F-7	121+26.1425	0.2500	5278.7556	5278.9040	0.0904	135.2858	680372.8692	961023.5572			135.2866	+0.025392
F-8	121+45.4600	0.0000	5278.2783	5278.3803	-0.6409	154.5929	680391.8735	961020.0733			154.6000	+/- .030282	F-8	121+45.4650	0.2500	5278.2858	5278.3878	-0.3912	154.6062	680391.9223	961020.3186			154.6133	+0.030283
F-9	121+64.7850	0.0000	5277.7604	5277.8114	-1.4440	173.9010	680410.8685	961016.5183			173.9250	+/- .033180	F-9	121+64.7875	0.2500	5277.7686	5277.8197	-1.1944	173.9159	680410.9189	961016.7632			173.9400	+0.033180
Pier 7	121+84.1100	0.0000	5277.1956	5277.1956	-2.5687	193.1930	680429.8015	961012.6472	-2.5744	0 00 00.00	193.2500	+/- .034000	Pier 7	121+84.1100	0.2500	5277.2041	5277.2041	-2.3192	173.9296	680429.8536	961012.8918	-2.3244	0 00 00.00	193.2666	+0.034000
F-1	121+98.2350	0.0000	5276.7532	5276.7423	-3.5940	207.2807	680443.5980	961009.6185			207.3750	+/- .034000	F-1	121+98.2350	0.2500	5276.7617	5276.7508	-3.3447	207.3003	680443.6530	961009.8625			207.3947	+0.034000
F-2	122+12.3600	0.0000	5276.2858	5276.2795	-4.7907	221.3548	680457.3564	961006.4221			221.5000	+/- .034000	F-2	122+12.3600	0.2500	5276.2943	5276.2880	-4.5417	221.3775	680457.4145	961006.6653			221.5227	+0.034000
F-3	122+26.4850	0.0000	5275.7984	5275.8073	-6.1587	235.4133	680471.0750	961003.0584			235.6250	+/- .034000	F-3	122+26.4850	0.2500	5275.8069	5275.8158	-5.9100	235.4390	680471.1360	961003.3009			235.6508	+0.034000
F-4	122+40.6100	0.0000	5275.3094	5275.3372	-7.6978	249.4541	680484.7515	960999.5279			249.7500	+/- .034000	F-4	122+40.6100	0.2500	5275.3179	5275.3457	-7.4494	249.4829	680484.8156	960999.7697			249.7788	+0.034000
F-5	122+54.7350	0.0000	5274.8203	5274.8647	-9.4077	263.4751	680498.3841	960995.8312			263.8750	+/- .034000	F-5	122+54.7350	0.2500	5274.8288	5274.8732	-9.1598	263.5069	680498.4510	960996.0720			263.9069	+0.034000
F-6	122+68.8600	0.0000	5274.3313	5274.3851	-11.2883	277.4743	680511.9707	960991.9686			278.0000	+/- .034000	F-6	122+68.8600	0.2500	5274.3398	5274.3936	-11.0407	277.5091	680512.0405	960992.2087			278.0349	+0.034000
F-7	122+82.9850	0.0000	5273.8423	5273.8963	-13.3391	291.4495	680525.5092	960987.9411			292.1250	+/- .034000	F-7	122+82.9850	0.2500	5273.8508	5273.9048	-13.0920	291.4873	680525.5819	960988.1802			292.1629	+0.034000
F-8	122+97.1100	0.0000	5273.3532	5273.3980	-15.5600	305.3988	680538.9977	960983.7488			306.2500	+/- .034000	F-8	122+97.1100	0.2500	5273.3617	5273.4065	-15.3134	305.4396	680539.0733	960983.9871			306.2910	+0.034000
F-9	123+11.2350	0.0000	5272.8642	5272.8909	-17.9506	319.3199	680552.4341	960979.3927			320.3750	+/- .034000	F-9	123+11.2350	0.2500	5272.8727	5272.8994	-17.7045	319.3637	680552.5126	960979.6300			320.4190	+0.034000
BK Brg P8	123+20.1933	0.0000	5272.5540	5272.5649	-19.5545	328.1334	680560.9271	960976.5453	-19.8898	0 00 00.00	329.3333	+/- .034000	BK Brg P8	123+20.1933	0.2500	5272.5625	5272.5734	-19.3087	328.1791	680561.0081	960976.7821	-19.6398	0 00 00.00	329.3793	+0.034000
Pier 8	123+22.7767	0.0000	5272.4646	5272.4702	-20.0297	330.6727	680563.3730	960975.7120	-20.3816	0 00 00.00	331.9167	+/- .034000	Pier 8	123+22.7767	0.2500	5272.4731	5272.4787	-19.7840	330.7190	680563.4540	960975.9486	-20.1316	0 00 00.00	331.9632	+0.034000
AH Brg P8	123+25.3600	0.0000	5272.3751	5272.3751	-20.5105	333.2109	680565.8164	960974.8733	-20.8797	0 00 00.00	334.5000	+/- .034000	AH Brg P8	123+25.3600	0.2500	5272.3836	5272.3836	-20.2649	333.2577	680565.8979	960975.1097	-20.6297	0 00 00.00	334.5471	+0.034000
F-1	123+37.0350	0.0000	5271.9709	5271.9725	-22.7539	344.6683	680576.8354	960971.0150			346.1750	+/- .034000	F-1	123+37.0350	0.2500	5271.9794	5271.9810	-22.5088	344.7176	680576.9193	960971.2506			346.2246	+0.034000
F-2	123+48.7100	0.0000	5271.5667	5271.5663	-25.1126	356.1025	680587.8150	960967.0460			357.8500	+/- .034000	F-2	123+48.7100	0.2500	5271.5752	5271.5748	-24.8680	356.1542	680587.9011	960967.2807			357.9021	+0.034000
F-3	123+60.3850	0.0000	5271.1625	5271.1575	-27.5862	367.5124	680598.7541	960962.9666			369.5250	+/- .034000	F-3	123+60.3850	0.2500	5271.1710	5271.1660	-27.3421	367.5666	680598.8426	960963.2005			369.5796	+0.034000
F-4	123+72.0600	0.0000	5270.7583	5270.7469	-30.1745	378.8968	680609.6516	960958.7775			381.2000	+/- .034000	F-4	123+72.0600	0.2500	5270.7668	5270.7554	-29.9310	378.9535	680609.7425	960959.0104			381.2571	+0.034000
F-5	123+83.7350	0.0000	5270.3541	5270.3353	-32.8772	390.2546	680620.5063	960954.4789			392.8750	+/- .034000	F-5	123+83.7350	0.2500	5270.3626	5270.3438	-32.6343	390.3137	680620.5996	960954.7108			392.9347	+0.034000
F-6	123+95.4100	0.0000	5269.9499	5269.9244	-35.6941	401.5846	680631.3173	960950.0712			404.5500	+/- .034000	F-6	123+95.4100	0.2500	5269.9584	5269.9329	-35.4518	401.6462	680631.4129	960950.3022			404.6122	+0.034000
F-7	124+07.0850	0.0000	5269.5457	5269.5165	-38.6250	412.8857	680642.0833	960945.5548			416.2250	+/- .034000	F-7	124+07.0850	0.2500	5269.5542	5269.5250	-38.3833	412.9497	680642.1812	960945.7849			416.2897	+0.034000
F-8	124+18.7600	0.0000	5269.1415	5269.1143	-41.6694	424.1568	680652.8034	960940.9304			427.9000	+/- .034000	F-8	124+18.7600	0.2500	5269.1500	5269.1228	-41.4284	424.2232	680652.9036	960941.1595			427.9672	+0.034000
F-9	124+30.4350	0.0000	5268.7372	5268.7198	-44.8271	435.3966	680663.6764	960936.1984			439.5750	+/- .033610	F-9	124+30.4350	0.2500	5268.7456	5268.7282	-44.5867	435.4654	680663.7588	960936.4265			439.6447	+0.033610
Pier 9	124+42.1100	0.0000	5268.3330	5268.3330	-48.0977	446.6041	680674.1012	960931.3592	-50.1783	0 00 00.00	451.2500	+/- .032458	Pier 9	124+42.1100	0.2500	5268.3411	5268.3411	-47.8581	446.6753	680674.2059	960931.5861	-49.9283	0 00 00.00	451.3222	+0.032458
F-1	124+59.8100	0.0000	5267.7202	5267.7630	-53.2709	466.5310	680689.1147	960923.8193			468.9500	+/- .029254	F-1	124+59.8073	0.2500	5267.7276	5267.7704	-53.0316	466.6033	680689.2205	960924.0458			469.0234	+0.029255
F-2	124+77.5100	0.0000	5267.1074	5267.1879	-58.7018	480.3771	680706.0114	960916.0359			486.6500	+/- .024527	F-2	124+77.5046	0.2500	5267.1137	5267.1943	-58.4628	480.4504	680706.1181	960916.				

LONGITUDINAL LINE: Panel Line 2					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE				LONGITUDINAL LINE: Panel Line 3					PARALLEL TO HORIZONTAL CONTROL				0.750000 FEET BELOW FINISHED GRADE			
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKREW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	5.7500	5280.6737	5280.6737	5.7500	0.0000	680239.7820	961048.4986	5.7500	0 00 00.00	0.0000	-0.010922	Pier 6	119+90.8600	22.2500	5280.4934	5280.4934	22.2500	0.0000	680242.1408	961064.8291	22.2500	0 00 00.00	0.0000	-0.010922
F-1	120+10.2233	5.7500	5280.5595	5280.6072	5.7500	19.3633	680258.9464	961045.7305			19.3633	-0.005780	F-1	120+10.3331	22.2500	5280.4638	5280.5115	22.2500	19.4731	680261.4139	961062.0453	22.2500	19.4731	680261.4139	961062.0453
F-2	120+29.5865	5.7500	5280.3984	5280.5072	5.7500	38.7265	680278.1108	961042.9624			38.7265	-0.000617	F-2	120+29.8062	22.2500	5280.3871	5280.4959	22.2500	38.9462	680280.6870	961059.2615	22.2500	38.9462	680280.6870	961059.2615
F-3	120+48.9498	5.7500	5280.1904	5280.3517	5.7500	58.0898	680297.2752	961040.1943			58.0898	+0.004547	F-3	120+49.2793	22.2500	5280.2629	5280.4242	22.2500	58.4193	680299.9601	961056.4777	22.2500	58.4193	680299.9601	961056.4777
F-4	120+68.3131	5.7500	5279.9353	5279.1285	5.7500	77.4531	680316.4396	961037.4262			77.4531	+0.009710	F-4	120+68.7524	22.2500	5280.0912	5280.2844	22.2500	77.8924	680319.2332	961053.6939	22.2500	77.8924	680319.2332	961053.6939
F-5	120+87.6764	5.7500	5279.6333	5279.8334	5.7500	96.8164	680335.6040	961034.6581			96.8164	+0.014878	F-5	120+88.2255	22.2500	5279.8720	5279.0721	22.2500	97.3655	680338.5063	961050.9101	22.2500	97.3655	680338.5063	961050.9101
F-6	121+07.0389	5.7500	5279.2847	5279.4681	5.7500	116.1796	680354.7684	961031.8900			116.1796	+0.020121	F-6	121+07.6835	22.2500	5279.6072	5279.7906	22.2500	116.8386	680357.7793	961048.1260	22.2500	116.8386	680357.7793	961048.1260
F-7	121+26.3067	5.7500	5278.8918	5279.0401	5.8688	135.5420	680373.9085	961028.9605			135.5420	+0.025438	F-7	121+26.7902	22.2500	5279.3033	5279.4516	22.2500	136.3107	680377.0266	961045.1707	22.2500	136.3107	680377.0266	961045.1707
F-8	121+45.5745	5.7500	5278.4497	5278.5517	5.1021	154.8990	680392.9974	961025.7136			154.8990	+0.030305	F-8	121+45.8968	22.2500	5278.9429	5279.0449	22.2500	155.5820	680396.2226	961041.8987	22.2500	155.5820	680396.2226	961041.8987
F-9	121+64.8422	5.7500	5277.9496	5278.0006	4.2960	174.2452	680412.0297	961022.1501			174.2452	+0.033185	F-9	121+65.0034	22.2500	5278.4930	5278.5440	20.7672	175.2331	680415.3621	961038.3109	20.7672	175.2331	680415.3621	961038.3109
Pier 7	121+84.1100	5.7500	5277.3911	5277.3911	3.1686	193.5754	680431.0002	961018.2709	3.1756	0 00 00.00	193.5754	+0.034000	Pier 7	121+84.1100	22.2500	5277.9521	5277.9521	19.6320	194.6729	680434.4400	961034.4083	19.6320	194.6729	680434.4400	961034.4083
F-1	121+98.2350	5.7500	5276.9487	5276.9378	2.1382	207.7329	680444.8650	961015.2272			207.7329	+0.034000	F-1	121+98.2350	22.2500	5277.5097	5277.4988	18.5871	209.0308	680448.5010	961031.3216	18.5871	209.0308	680448.5010	961031.3216
F-2	122+12.3600	5.7500	5276.4813	5276.4750	0.9356	221.8768	680458.6917	961012.0150			221.8768	+0.034000	F-2	122+12.3600	22.2500	5277.0423	5277.0360	17.3674	223.3748	680462.5233	961028.0639	17.3674	223.3748	680462.5233	961028.0639
F-3	122+26.4850	5.7500	5275.9939	5276.0028	-0.4392	236.0050	680472.4782	961008.6346			236.2178	+0.034000	F-3	122+26.4850	22.2500	5276.5549	5276.5638	15.9732	237.7030	680476.5051	961024.6357	15.9732	237.7030	680476.5051	961024.6357
F-4	122+40.6100	5.7500	5275.5049	5275.5327	-1.9859	250.1154	680486.2226	961005.0866			250.4128	+0.034000	F-4	122+40.6100	22.2500	5276.0659	5276.0937	14.4046	252.0131	680490.4439	961021.0375	14.4046	252.0131	680490.4439	961021.0375
F-5	122+54.7350	5.7500	5275.0158	5275.0602	-3.7044	264.2060	680499.9228	961001.3714			264.4128	+0.034000	F-5	122+54.7350	22.2500	5275.5768	5275.6212	12.6618	266.3031	680504.3380	961017.2697	12.6618	266.3031	680504.3380	961017.2697
F-6	122+68.8600	5.7500	5274.5268	5274.5806	-5.5942	278.2745	680513.5767	960997.4899			278.8028	+0.034000	F-6	122+68.8600	22.2500	5275.0878	5275.1416	10.7452	280.5708	680518.1852	961013.3332	10.7452	280.5708	680518.1852	961013.3332
F-7	122+82.9850	5.7500	5274.0378	5274.0918	-7.6553	292.3190	680527.1823	960993.4422			292.9978	+0.034000	F-7	122+82.9850	22.2500	5274.5988	5274.6528	8.6550	294.8141	680531.9834	961009.2283	8.6550	294.8141	680531.9834	961009.2283
F-8	122+97.1100	5.7500	5273.5487	5273.5935	-9.8872	306.3374	680540.7376	960989.2292			306.3374	+0.034000	F-8	122+97.1100	22.2500	5274.1097	5274.1545	6.3915	309.0309	680545.7306	961004.9557	6.3915	309.0309	680545.7306	961004.9557
F-9	123+11.2350	5.7500	5273.0597	5273.0864	-12.2896	320.3275	680554.2406	960984.8515			320.3275	+0.034000	F-9	123+11.2350	22.2500	5273.6207	5273.6474	3.9551	323.2190	680559.4247	961000.5160	3.9551	323.2190	680559.4247	961000.5160
BK Brg P8	123+20.1933	5.7500	5272.7495	5272.7604	-13.9014	329.1848	680562.7765	960981.9901	-14.1398	0 00 00.00	330.3899	+0.034000	BK Brg P8	123+20.1933	22.2500	5273.3105	5273.3214	2.3204	332.2016	680568.0813	960997.6140	2.3204	332.2016	680568.0813	960997.6140
Pier 8	123+22.7767	5.7500	5272.6601	5272.6657	-14.3790	331.7367	680565.2339	960981.1526	-14.6316	0 00 00.00	332.9868	+0.034000	Pier 8	123+22.7767	22.2500	5273.2211	5273.2267	1.8361	334.7896	680570.5735	960996.7647	1.8361	334.7896	680570.5735	960996.7647
AH Brg P8	123+25.3600	5.7500	5272.5706	5272.5706	-14.8622	334.2874	680567.6893	960980.3097	-15.1297	0 00 00.00	335.5829	+0.034000	AH Brg P8	123+25.3600	22.2500	5273.1316	5273.1316	1.3461	337.3765	680573.0638	960995.9099	1.3461	337.3765	680573.0638	960995.9099
F-1	123+37.0350	5.7500	5272.1664	5272.1680	-17.1167	345.8016	680578.7630	960976.4323			347.3158	+0.034000	F-1	123+37.0350	22.2500	5272.7274	5272.7290	-0.9404	349.0536	680584.2941	960991.9776	-0.9404	349.0536	680584.2941	960991.9776
F-2	123+48.7100	5.7500	5271.7622	5271.7618	-19.4870	357.2925	680589.7970	960972.4437			359.0486	+0.034000	F-2	123+48.7100	22.2500	5272.3232	5272.3228	-3.3443	360.7072	680595.4843	960987.9324	-3.3443	360.7072	680595.4843	960987.9324
F-3	123+60.3850	5.7500	5271.3580	5271.3530	-21.9729	368.7589	680600.7903	960968.3441			370.7815	+0.034000	F-3	123+60.3850	22.2500	5271.9190	5271.9140	-5.8653	372.3359	680606.6332	960983.7749	-5.8653	372.3359	680606.6332	960983.7749
F-4	123+72.0600	5.7500	5270.9538	5270.9424	-24.5740	380.1998	680611.7418	960964.1342			382.5144	+0.034000	F-4	123+72.0600	22.2500	5271.5148	5271.5034	-8.5032	383.9387	680617.7397	960979.5054	-8.5032	383.9387	680617.7397	960979.5054
F-5	123+83.7350	5.7500	5270.5496	5270.5308	-27.2902	391.6139	680622.6504	960959.8141			394.2472	+0.034000	F-5	123+83.7350	22.2500	5271.1106	5271.0918	-11.2578	395.5144	680628.8027	960975.1243	-11.2578	395.5144	680628.8027	960975.1243
F-6	123+95.4100	5.7500	5270.1454	5270.1199	-30.1211	403.0001	680633.5149	960955.3846			405.9801	+0.034000	F-6	123+95.4100	22.2500	5270.7064	5270.6809	-14.1288	407.0617	680639.8210	960970.6320	-14.1288	407.0617	680639.8210	960970.6320
F-7	124+07.0850	5.7500	5269.7412	5269.7120	-33.0664	414.3572	680644.3343	960950.8460			417.7130	+0.034000	F-7	124+07.0850	22.2500	5270.3022	5270.2730	-17.1158	418.5796	680650.7936	960966.0291	-17.1158	418.5796	680650.7936	960966.0291
F-8	124+18.7600	5.7500	5269.3370	5269.3098	-36.1259	425.6841	680655.1075	960946.1987			429.4459	+0.034000	F-8	124+18.7600	22.2500	5269.8980	5269.8708	-20.2186	430.0668	680661.7193	960961.3160	-20.2186	430.0668	680661.7193	960961.3160
F-9	124+30.4350	5.7500	5268.9305	5268.9131	-39.2993	436.9796	680665.8333	960941.4431			441.1787	+0.033610	F-9	124+30.4350	22.2500	5269.4851	5269.4677	-23.4369	441.5222	680672.5969	960956.4932	-23.4369	441.5222	680672.5969	960956.4932
Pier 9	124+42.1100	5.7500	5268.5197	5268.5197	-42.5861	448.2426	680676.5108	960936.5799	-44.4283	0 00 00.00	452.9116	+0.032458	Pier 9	124+42.1100	22.2500	5269.0552	5269.0552	-26.7703	452.9446	680683.4255	960951.5611	-26.7703	452.944		

LONGITUDINAL LINE: Panel Line 4					PARALLEL TO HORIZONTAL CONTROL					0.750000 FEET BELOW FINISHED GRADE					LONGITUDINAL LINE: Right Edge of Deck					PARALLEL TO HORIZONTAL CONTROL					0.750000 FEET BELOW FINISHED GRADE													
BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP	BENT LINE	STATION	OFFSET	ELEVATION	ELEV+DL	X	Y	NORTHING	EASTING	BENT LNTH	SKEW	GIRDER LNTH	CRS-SLP
Pier 6	119+90.8600	27.7500	5280.4334	5280.4334	27.7500	0.0000	680242.9271	961070.2726	27.7500	0 00 00.00	0.0000	-0.010922	Pier 6	119+90.8600	33.5000	5280.3706	5280.3706	33.5000	0.0000	680243.7491	961075.9636	33.5000	0 00 00.00	0.0000	-0.010922	Pier 6	120+10.4080	33.5000	5280.3991	5280.4468	33.5000	19.5480	680263.0963	961073.1691	19.5480	-0.005731		
F-1	120+10.3697	27.7500	5280.4321	5280.4798	27.7500	19.5097	680262.2364	961067.4836					F-1	120+10.4080	33.5000	5280.3991	5280.4468	33.5000	19.5480	680263.0963	961073.1691					F-1	120+29.9560	33.5000	5280.3805	5280.4893	33.5000	39.0960	680282.4435	961070.3746	39.0960	-0.000518		
F-2	120+29.8794	27.7500	5280.3838	5280.4926	27.7500	39.0194	680281.5457	961064.6946					F-2	120+29.9560	33.5000	5280.3805	5280.4893	33.5000	39.0960	680282.4435	961070.3746					F-2	120+49.3891	27.7500	5280.2877	5280.4490	27.7500	58.5291	680301.7906	961067.5801	58.5291	+0.004694		
F-3	120+49.3891	27.7500	5280.2877	5280.4490	27.7500	58.5291	680300.8550	961061.9055					F-3	120+49.3891	33.5000	5280.3140	5280.4753	33.5000	58.6439	680301.7906	961067.5801					F-3	120+69.0519	33.5000	5280.1996	5280.3928	33.5000	78.1919	680321.1379	961064.7856	78.1919	+0.009907		
F-4	120+68.8988	27.7500	5280.1440	5280.3372	27.7500	78.0388	680320.1643	961059.1165					F-4	120+69.0519	33.5000	5280.1996	5280.3928	33.5000	78.1919	680321.1379	961064.7856					F-4	120+88.4085	27.7500	5279.9526	5279.1527	27.7500	97.5485	680339.4736	961056.3275	97.5485	+0.015075		
F-5	120+88.4085	27.7500	5279.9526	5279.1527	27.7500	97.5485	680339.4736	961056.3275					F-5	120+88.5999	33.5000	5280.0375	5280.2376	33.5000	97.7399	680340.4851	961061.9911					F-5	121+07.8944	27.7500	5279.7161	5279.8995	27.7500	117.0582	680358.7829	961053.5381	117.0582	+0.020355		
F-6	121+07.8944	27.7500	5279.7161	5279.8995	27.7500	117.0582	680358.7829	961053.5381					F-6	121+08.1128	33.5000	5279.8305	5279.0139	33.5000	33.4993	680359.8322	961059.1959					F-6	121+26.9483	27.7500	5279.4414	5279.5898	27.7500	136.5689	680378.0659	961050.5740	136.5689	+0.025617		
F-7	121+26.9483	27.7500	5279.4414	5279.5898	27.7500	136.5689	680378.0659	961050.5740					F-7	121+27.1121	33.5000	5279.5865	5279.7348	33.5000	136.8348	680379.1525	961056.2229					F-7	121+46.0022	27.7500	5279.1078	5279.2098	27.7500	156.0701	680397.2977	961047.2936	156.0701	+0.030392		
F-8	121+46.0022	27.7500	5279.1078	5279.2098	27.7500	156.0701	680397.2977	961047.2936					F-8	121+46.1114	33.5000	5279.2805	5279.3825	33.5000	32.8182	680398.4217	961052.9338					F-8	121+65.0561	27.7500	5278.6742	5278.7253	27.7500	175.5624	680416.4729	961043.6978	175.5624	+0.033206		
F-9	121+65.0561	27.7500	5278.6742	5278.7253	27.7500	175.5624	680416.4729	961043.6978					F-9	121+65.1107	33.5000	5278.8638	5278.9149	33.5000	31.9975	680417.6342	961049.3296					F-9	121+84.1100	27.7500	5278.1391	5278.1391	27.7500	25.1199	680435.5825	961039.7876	25.1199	+0.034000		
Pier 7	121+84.1100	27.7500	5278.1391	5278.1391	27.7500	25.1199	680435.5825	961039.7876	25.1756	0 00 00.00	0.0000	-0.034000	Pier 7	121+84.1100	33.5000	5278.3346	5278.3346	33.5000	30.8571	680436.7853	961045.4112	30.9256	0 00 00.00	0.0000	-0.034000	Pier 7	122+12.9850	27.7500	5274.7858	5274.8398	27.7500	14.0918	680533.5838	961014.4903	14.0918	+0.034000		
F-1	122+12.9850	27.7500	5274.7858	5274.8398	27.7500	14.0918	680533.5838	961014.4903					F-1	122+12.9850	33.5000	5274.9813	5275.0353	33.5000	19.7756	680535.2569	961019.9915					F-1	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954	2.0367	+0.034000		
F-2	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-2	122+48.7100	33.5000	5272.7057	5272.7053	33.5000	7.6622	680599.3621	960998.4930					F-2	123+11.2350	27.7500	5273.8077	5273.8344	27.7500	9.3700	680561.1528	961005.7375	9.3700	+0.034000		
F-3	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-3	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-3	123+20.1933	27.7500	5273.4975	5273.5084	27.7500	7.7277	680569.8496	961002.8220	7.7277	+0.034000		
F-4	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-4	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-4	123+22.7767	27.7500	5273.4081	5273.4137	27.7500	7.2412	680574.3534	961001.9688	7.2412	+0.034000		
F-5	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-5	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-5	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
F-6	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-6	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-6	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
F-7	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-7	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-7	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
F-8	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-8	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-8	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
F-9	122+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-9	122+48.7100	33.5000	5272.9222	5277.8813	33.5000	29.8023	680549.9801	961042.2951					F-9	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
BK Brg P8	123+20.1933	27.7500	5273.4975	5273.5084	27.7500	7.7277	680569.8496	961002.8220	7.8602	0 00 00.00	337.0810	+0.034000	BK Brg P8	123+20.1933	33.5000	5273.6930	5273.7039	33.5000	13.3808	680571.6983	961008.2667	13.6102	0 00 00.00	0.0000	-0.034000	BK Brg P8	123+22.7767	27.7500	5273.4081	5273.4137	27.7500	7.2412	680574.3534	961001.9688	7.2412	+0.034000		
Pier 8	123+22.7767	27.7500	5273.4081	5273.4137	27.7500	7.2412	680574.3534	961001.9688	7.3684	0 00 00.00	337.0810	+0.034000	Pier 8	123+22.7767	33.5000	5273.6930	5273.7039	33.5000	13.3808	680571.6983	961008.2667	13.1184	0 00 00.00	0.0000	-0.034000	Pier 8	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
AH Brg P8	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.8703	0 00 00.00	339.7261	+0.034000	AH Brg P8	123+25.3600	33.5000	5273.5141	5273.5141	33.5000	12.3972	680576.7282	961006.5464	12.6203	0 00 00.00	0.0000	-0.034000	AH Brg P8	123+25.3600	27.7500	5273.3186	5273.3186	27.7500	6.7488	680574.3534	961001.9688	6.7488	+0.034000		
F-1	123+37.0350	27.7500	5272.9144	5272.9160	27.7500	4.4517	680586.1378	960997.1593					F-1	123+37.0350	33.5000	5273.1099	5273.1115	33.5000	10.0890	680588.0653	961002.5767					F-1	123+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954	2.0367	+0.034000		
F-2	123+48.7100	27.7500	5272.5102	5272.5098	27.7500	2.0367	680597.3801	960993.0954					F-2	123+48.7100	33.5000	5273.1099	5273.1115	33.5000	10.0890	680588.0653	961002.5767					F-2	123+60.3850	27.7500	5272.1060	5272.1010	27.7500	-0.4961	680608.5808	960988.9185	-0.4961	+0.034000		
F-3	123+60.3850	27.7500	5272.1060	5272.1010	27.7500	-0.4961																																

GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE TEMPORARY BRIDGE BASED UPON THESE DRAWINGS AND THE PROJECT SPECIAL PROVISIONS, SECTION 621 - TEMPORARY BRIDGE

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) 2005 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, APPLICABLE TO THE PROJECT.

EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH M-206-2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

THE DESIGN SHOWN IS ONE OPTION FOR THE CONTRACTOR'S ENGINEER TO CONSIDER. ALTERNATE BRIDGE CONCEPTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER. SEE PROJECT SPECIAL PROVISIONS, SECTION 621 - TEMPORARY BRIDGE FOR ADDITIONAL INFORMATION.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

DESIGN DATA

AASHTO, FOURTH EDITION LRFD 2007, AS AMENDED BY 2008 INTERIMS

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

LIVE LOAD: HL-93 (DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD)

DEAD LOAD: (FOR INFORMATION ONLY)

BASE DESIGN LOAD ASSUMPTIONS:
ROADWAY PAVEMENT: 6" HMA = 72 psf
ROADWAY SUBGRADE: 20" ABC = 222 psf

REINFORCED CONCRETE:

CLASS D CONCRETE: f'c = 4,500 psi
REINFORCING STEEL: fy = 60,000 psi

PRECAST SLAB GIRDERS: (FOR INFORMATION ONLY)

BASE DESIGN: 69"W x 20"D SIDE-BY-SIDE SLAB GIRDERS

ALLOWABLE FOOTING BEARING PRESSURE: 4,000 psf

INDEX OF DRAWINGS

- BT1 GENERAL INFORMATION
- BT2 GENERAL LAYOUT
- BT3 TYPICAL SECTION

ABBREVIATIONS

- B.F. = BACK FACE
- B.O. = BOTTOM OF
- C.I.P. = CAST-IN-PLACE
- CONST. = CONSTRUCTION
- E.F. = EACH FACE
- EL. = ELEVATION
- F.F. = FAR FACE
- HCL = HORIZONTAL CONTROL LINE
- N.F. = NEAR FACE

BRIDGE DESCRIPTION

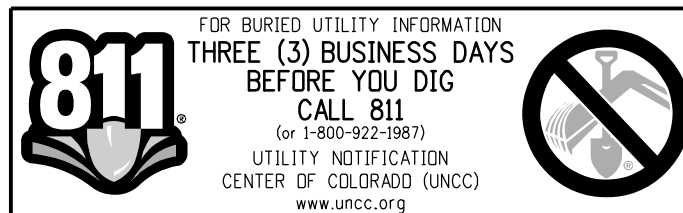
SINGLE SPAN TEMPORARY BRIDGE
PROPOSED I-25 MAINLINE OVER
EXISTING NB SANTA FE TO NB I-25 RAMP

50'-0" BRIDGE WIDTH

39'-0" ROADWAY WIDTH
6" HMA OVER 20" ABC ROADWAY SECTION
TYPE 7 GUARDRAIL

SKEW = 53° 30' 51"

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	9/10	RAO	9/10	Quantities By	10/10
Checked By	10/10	WJM	10/10	Checked By	10/10



CROSS REFERENCE DRAWING NUMBER (IF BLANK, REFERENCE IS TO SAME SHEET)
BTX XX SECTION OR DETAIL IDENTIFICATION

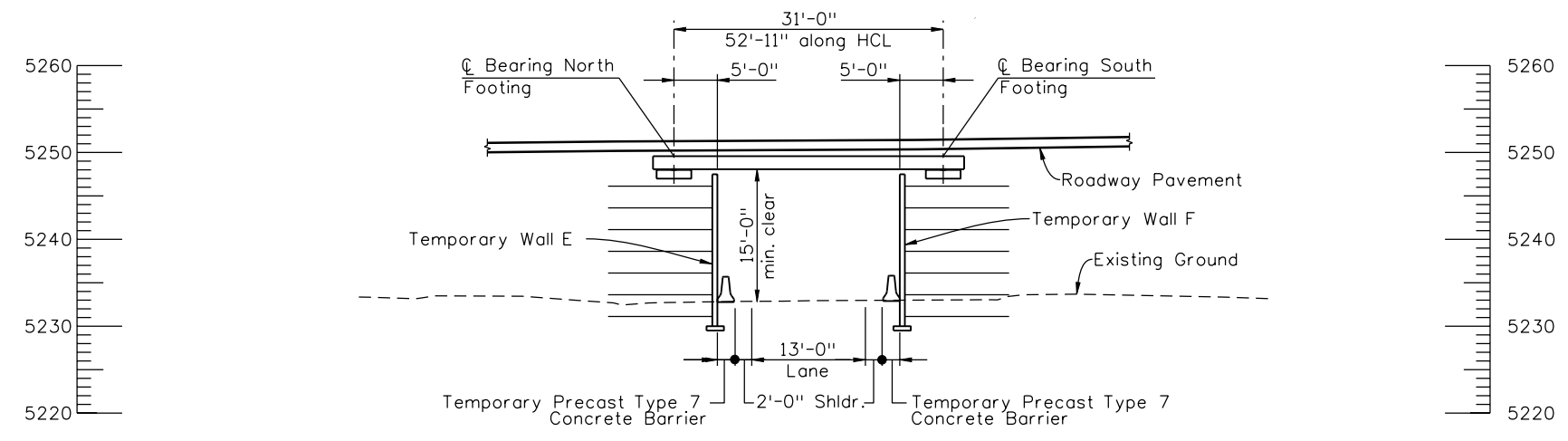
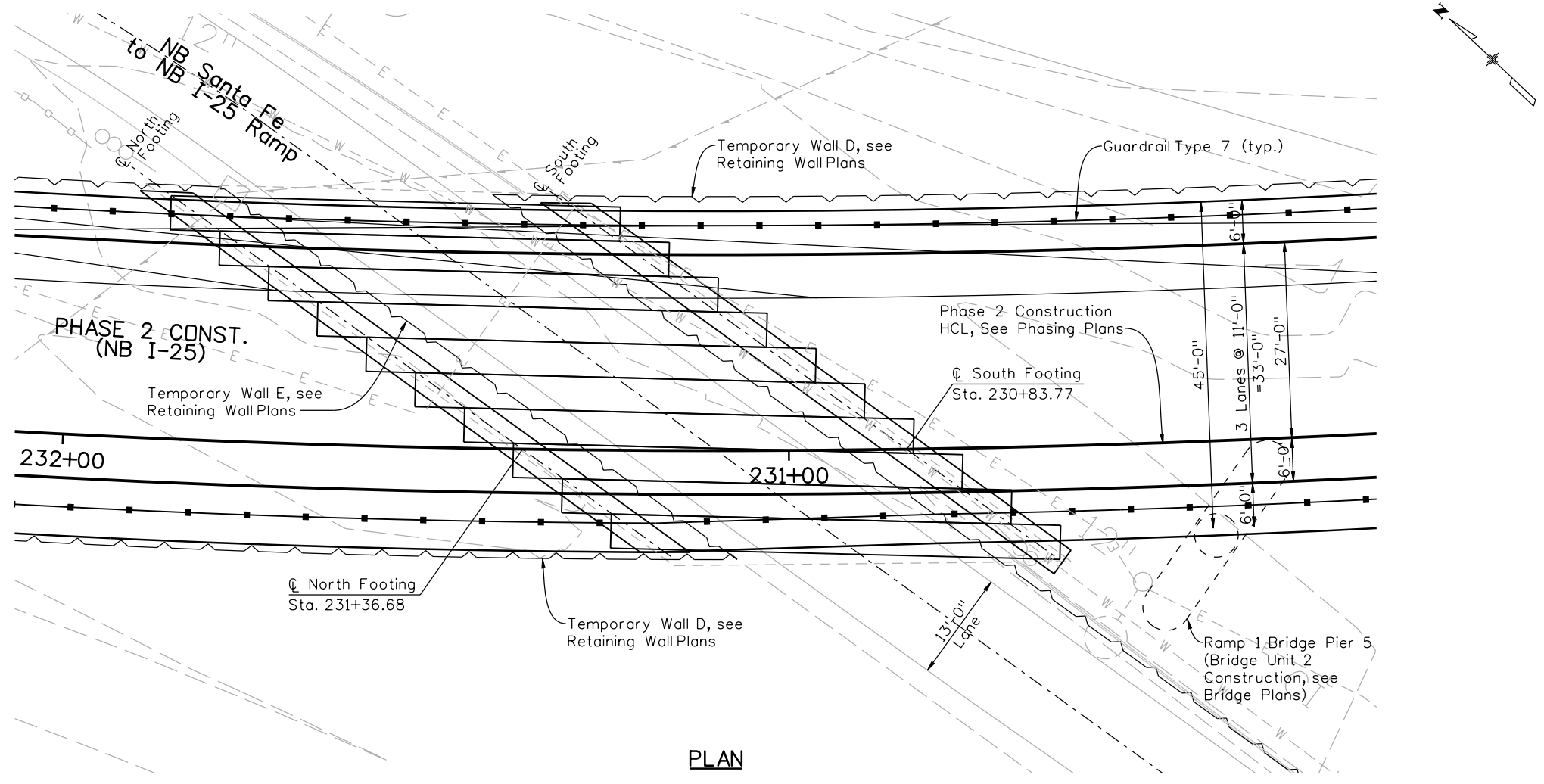
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Horiz. Scale: 1:1				2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	No Revisions:	GENERAL INFORMATION			17783
Unit Information					Revised:	Designer: Stein/Beams	Structure	NONE	
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions					Void:	Detailer: R. Dillon	Numbers		
						Sheet Subset: Bridge	Subset Sheets: BT1 of 3		

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Revision Dates (Preliminary Stage Only)	

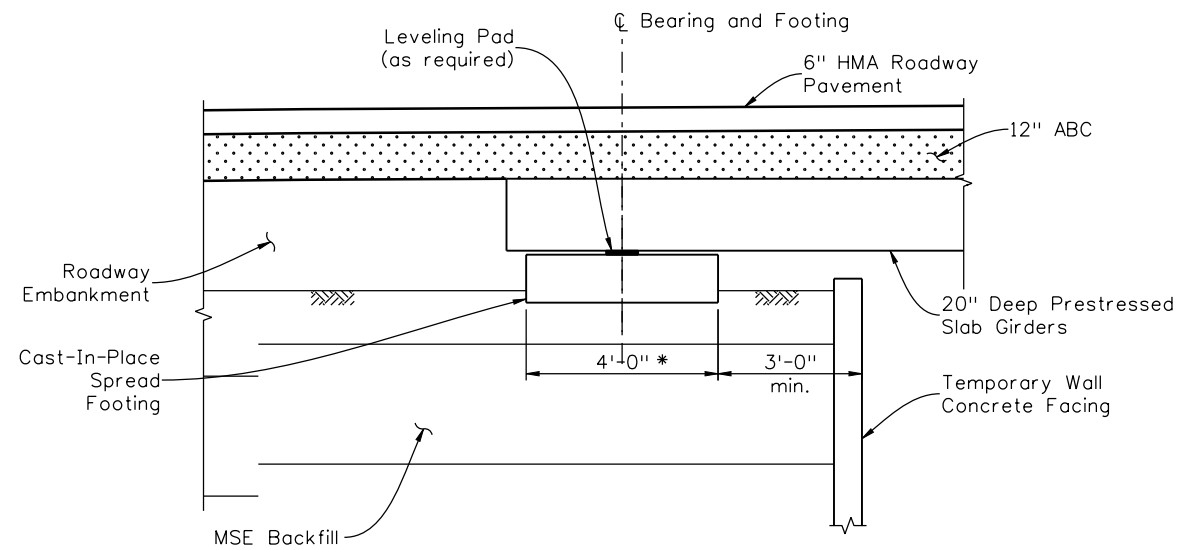
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09/10		09/10		09/10	
09/10		09/10		09/10	
09/10		09/10		09/10	



LONGITUDINAL SECTION
 (Cut perpendicular to NB Santa Fe to NB I-25 Ramp)

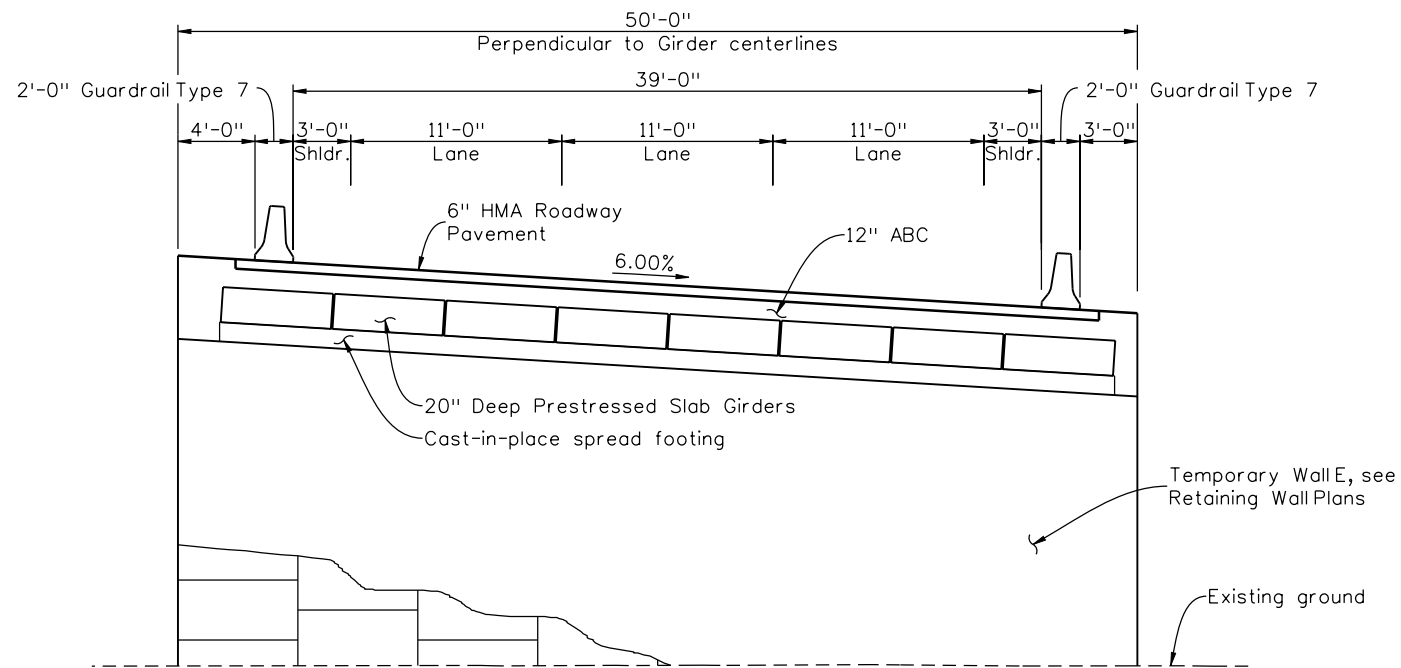
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Sheet Revisions																					
Date:	Comments	Init.																			
1/3/11	Misc. Revisions	PRS																			
File Name: 16311BRDG_PH2_TempBridge-GenLay.dgn	Horiz. Scale: 1:20 Vert. Scale: As Noted Unit Information Unit Leader Initials	Designer: P. STEIN Detailer: R. DILLON Sheet Subset: WALL	Structure Numbers: NONE Subset Sheets: BT2 of 3																		

FELSBURG HOLT & ULLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions



* As required by final design

TYPICAL FOOTING SECTION



TYPICAL SECTION
(Looking West, perpendicular to girder centerlines)

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

Print Date: 11/18/2010
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 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

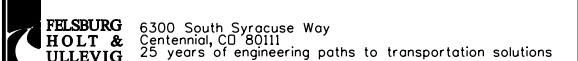
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
 TEMPORARY BRIDGE
 TYPICAL SECTIONS

Designer:	Stein/Beams	Structure Numbers	NONE
Detailer:	R. Dillon	Subset Sheets:	BT3 of 3

Project No./Code
BR 0252-407
17783
Sheet Number 268 A



GENERAL NOTES

WORK SHALL CONSIST OF CONSTRUCTING A TEMPORARY SUPPORT FOR PIER 2 OF BRIDGE STRUCTURE NO. F-16-DT AT THE WEST END OF THE EXISTING PIER GIRDER IN ACCORDANCE WITH THE DESIGN SHOWN ON THESE PLANS, AND PROJECT SPECIAL PROVISION, REVISION OF SECTION 509, PROVIDE TEMPORARY SUPPORT PLANS OF THE EXISTING NORTHBOUND I-25 BRIDGE, STRUCTURE NO. F-16-DT, ARE AVAILABLE FOR INFORMATION FROM THE ENGINEER.

STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36 (ASTM A709). NEW STRUCTURAL STEEL, AND EXISTING STEEL WHERE NOTED, SHALL BE PAINTED IN ACCORDANCE WITH SECTION 509. THE COLOR SHALL BE GREEN, MATCHING THAT OF THE EXISTING STRUCTURE.

GRADE 60 REINFORCING STEEL IS REQUIRED.

THE FINAL FINISH FOR ALL EXPOSED CONCRETE SURFACES SHALL BE CLASS 1.

ALL REINFORCING STEEL SHALL BE BLACK UNLESS OTHERWISE NOTED.

Ⓢ DENOTES EPOXY COATED REINFORCING STEEL.

STRUCTURAL CONCRETE EXPOSED TO SOIL SHALL CONFORM TO CEMENTITIOUS MATERIALS REQUIREMENTS CLASS 2 CORRESPONDING TO SULFATE EXPOSURE CLASS 2. ALL STRUCTURAL CONCRETE NOT EXPOSED TO SOIL SHALL CONFORM TO CEMENTITIOUS MATERIALS REQUIREMENTS CLASS 0 CORRESPONDING TO SULFATE EXPOSURE CLASS 0.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENGTH FOR CLASS D CONCRETE	1'-3"	1'-7"	2'-5"	2'-10"	3'-8"	4'-8"	5'-11"	7'-3"

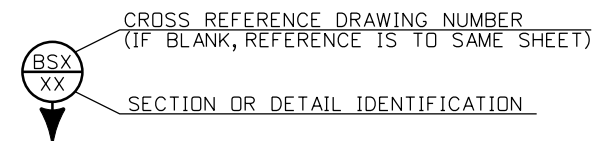
WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS, THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR BLACK REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENGTH FOR CLASS D CONCRETE	1'-1"	1'-4"	1'-7"	1'-11"	2'-6"	3'-1"	3'-11"	4'-10"

THE ABOVE SPLICE LENGTHS SHALL BE INCREASED BY 20 PERCENT FOR 3 BAR BUNDLES AND 33 PERCENT FOR 4 BAR BUNDLES.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIELD SURVEY ELEVATIONS, AT LOCATIONS TO BE SPECIFIED BY THE ENGINEER, AT THE EXISTING PIER 2 STEEL PIER GIRDER BOTH PRIOR TO CONSTRUCTION AND DURING LOAD TRANSFER. THE CONTRACTOR SHALL NOT FABRICATE OR ORDER MATERIAL UNTIL THE INITIAL SURVEY ELEVATIONS HAVE BEEN RECEIVED BY THE ENGINEER AND WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION OF THE TEMPORARY SUPPORT HAS BEEN RECEIVED FROM THE ENGINEER.



FOR BURIED UTILITY INFORMATION
**THREE (3) BUSINESS DAYS
BEFORE YOU DIG**
CALL 811
(or 1-800-922-1987)
UTILITY NOTIFICATION
CENTER OF COLORADO (UNCC)
www.uncc.org

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

- B.F. = BACK FACE
- BRG. = BEARING
- CONST. = CONSTRUCTION
- EA. = EACH
- E.F. = EACH FACE
- HCL = HORIZONTAL CONTROL LINE
- F.F. = FAR FACE
- N.F. = NEAR FACE
- SPA. = SPACE OR SPACES

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY AND FROM EXISTING PLANS. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 3 BUSINESS DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

DESIGN DATA

AASHTO, LRFD BRIDGE DESIGN SPECIFICATIONS, FOURTH EDITION, WITH CURRENT INTERIMS; AND AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, AS APPLICABLE.

LIVE LOAD: HL-93 (DESIGN TRUCK OR TANDEM, AND DESIGN LANE LOAD)

DEAD LOAD: ASSUMES 48 LBS. PER SQ. FT. FOR EXISTING BRIDGE DECK OVERLAY

REINFORCED CONCRETE:
 CLASS D CONCRETE: f'c = 4,500 psi
 REINFORCING STEEL: fy = 60,000 psi

CAISSON CONCRETE:
 CLASS BZ CONCRETE: f'c = 4,000 psi
 REINFORCING STEEL: fy = 60,000 psi

STRUCTURAL STEEL: AASHTO M270 (ASTM A709) GRADE 36 Fy = 36,000 psi

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL
503-00036	DRILLED CAISSON (36 INCH)	LF	88
509-08100	PROVIDE TEMPORARY SUPPORT (F-16-DT)	LS	1
512-00101	BEARING DEVICE (TYPE 1)	EA	1
630-80370	CONCRETE BARRIER (TEMPORARY)	LF	40

INDEX OF DRAWINGS

- BS1 GENERAL INFORMATION
- BS2 SITE PLAN & CONST. SEQUENCE
- BS3 GENERAL LAYOUT & CAISSON DETAIL
- BS4 CONCRETE SECTIONS & DETAILS
- BS5 PIER GIRDER DETAILS
- BS6 BEARING DEVICE (TYPE 1)

Design		Detail		Quantities	
DATE	INITIAL	DATE	INITIAL	DATE	INITIAL
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Checked By	WJM	Checked By	WJM	Checked By	WJE

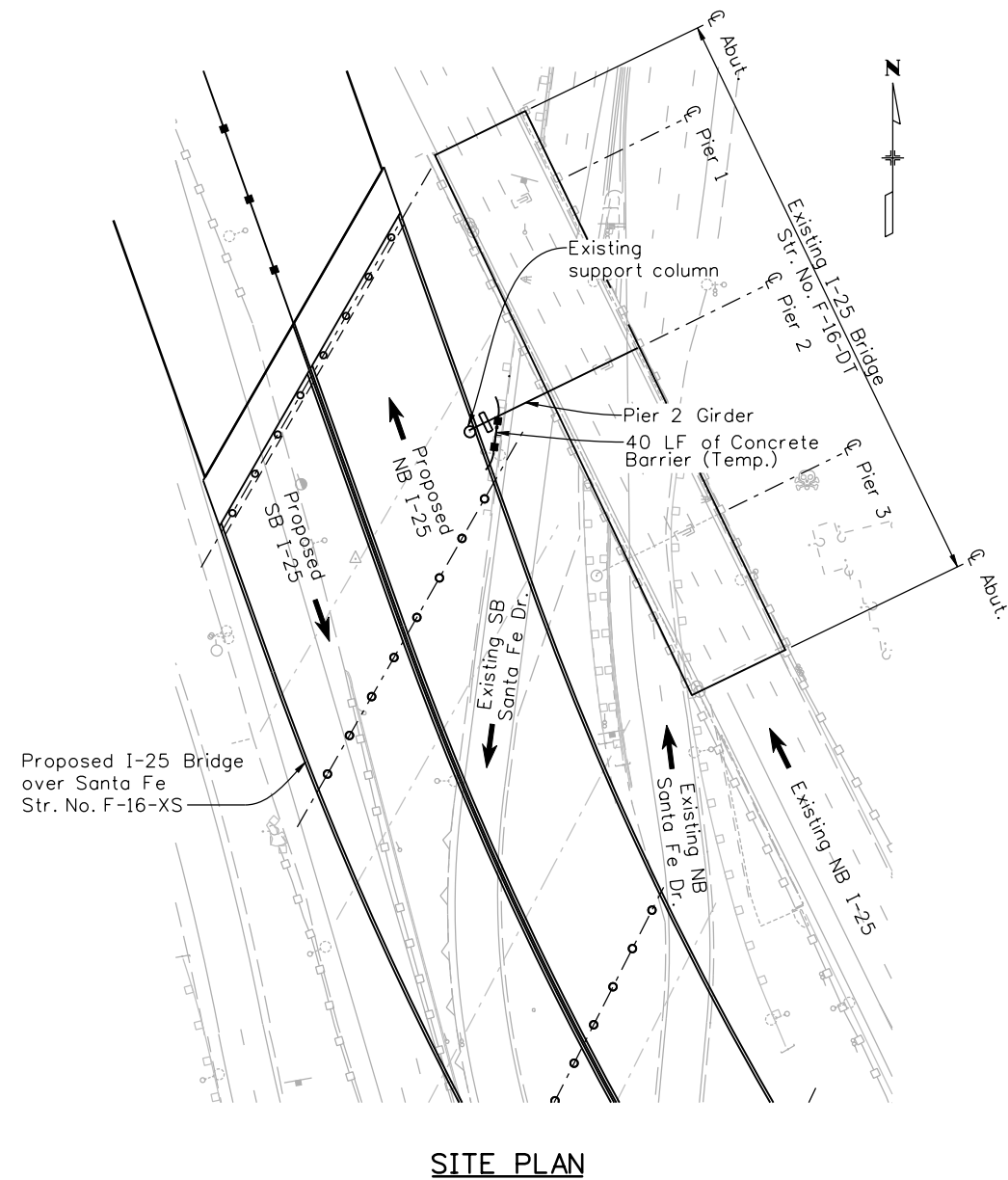
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Horiz. Scale: 1:1 Vert. Scale: As Noted	Unit Information Unit Leader Initials		Revised:		Structure Numbers: F-16-DT Subset Sheets: BS1 of 6
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions		RLB	Void:	Sheet Number 269 A	

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11/22/2010 CDOT-PDFDraftQuality_XM.plt

Revision Dates		(Preliminary Stage Only)	
No.	Date	By	Checked By

Design		Detail		Quantity	
By	Date	By	Date	By	Date





SUGGESTED CONSTRUCTION SEQUENCE

1. Construct two new Drilled Caissons and foundation cap.
2. Construct concrete columns and cap for temporary support of the existing steel pier girder.
3. Install lateral bracing and bearing stiffeners.
4. Install jacking equipment on top of the temporary support concrete cap, under the existing pier girder.
5. Following Support Cap concrete reaching 100% f'c, jack up the existing pier girder, until the vertical movement as specified has occurred.
6. Install new bearing at the temporary support concrete cap.
7. Remove existing bearing.
8. Release the jack, lowering the existing girder onto the new bearing and temporary support.
9. Remove the end of the existing pier girder as specified.
10. Remove the existing concrete column and footing.

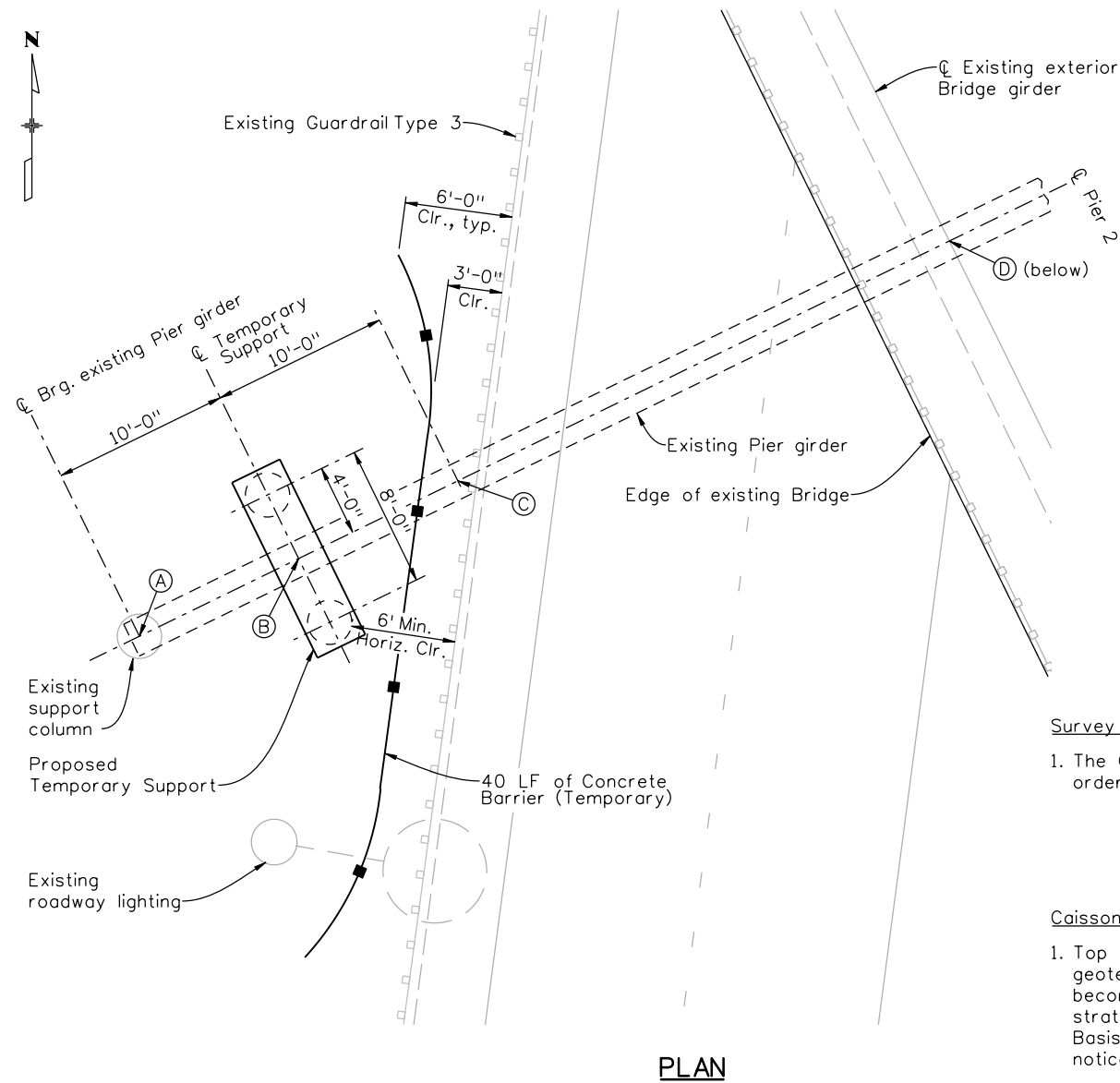


EXISTING STRUCTURE F-16-DT
(Looking North)

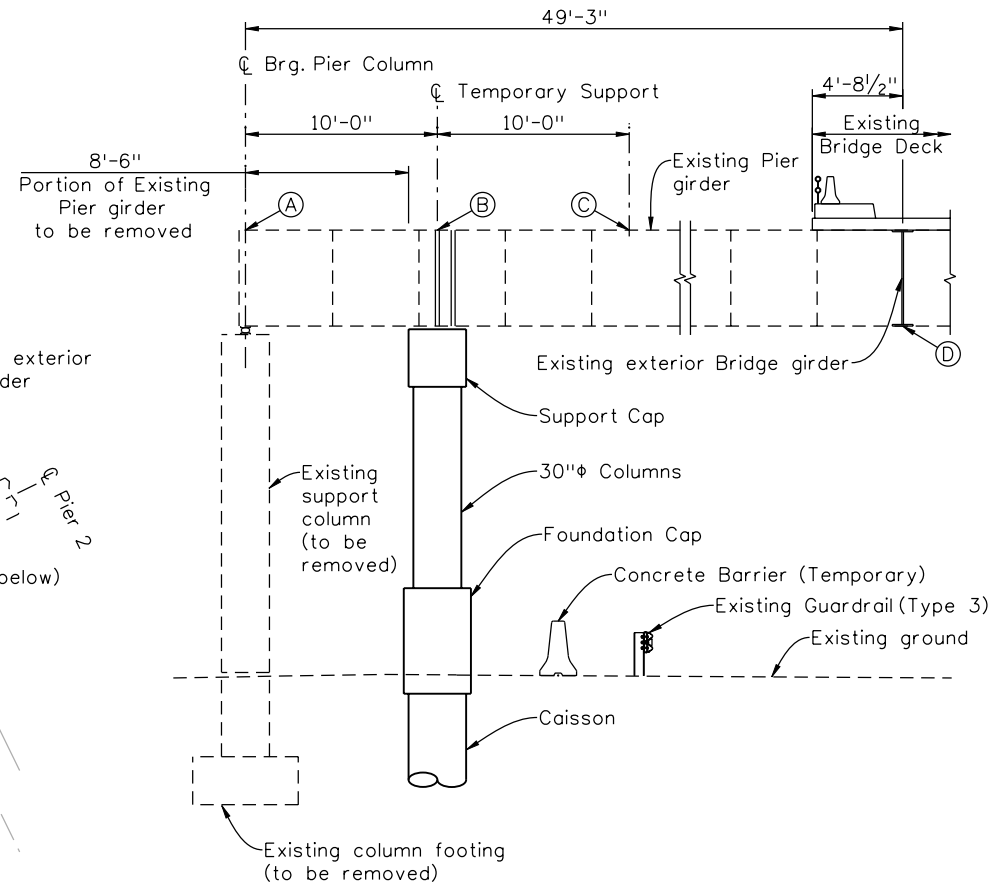
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Checked By	10/10	WJM	10/10	Checked By	WJE



PLAN



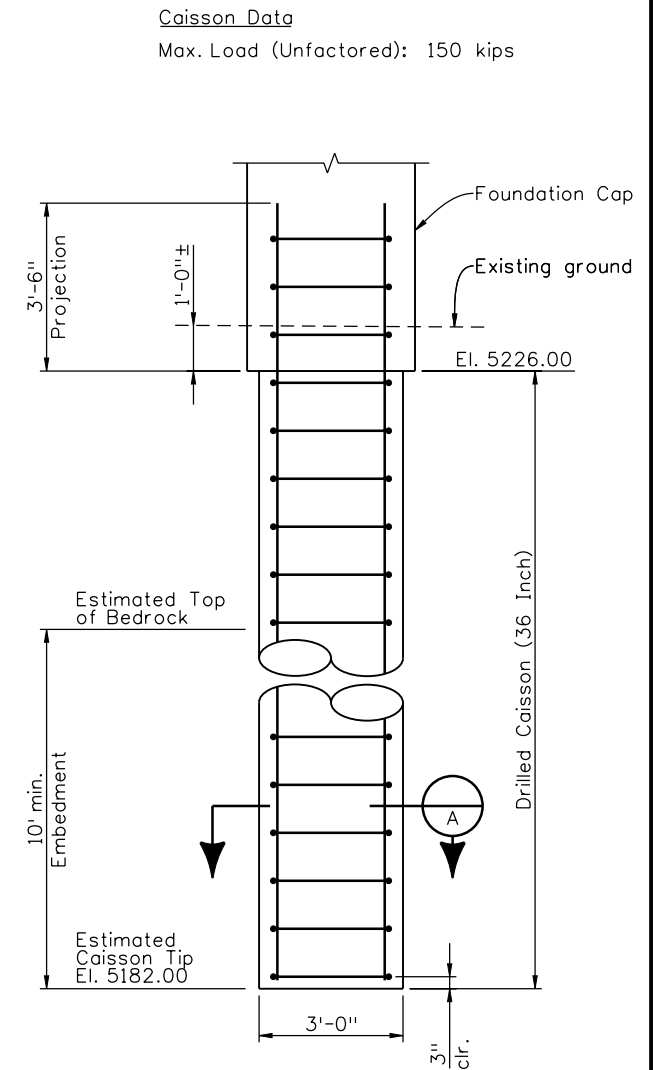
TEMPORARY SUPPORT ELEVATION

Survey Note:

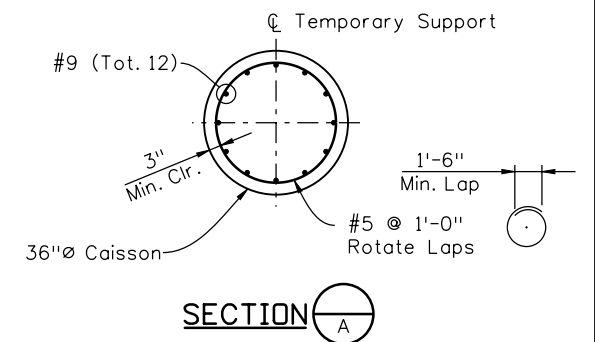
- The Contractor shall provide Field Survey shots at (locations A, B, C & D) 4 weeks prior to ordering materials, and during transfer of load to temporary support.

Caisson Notes:

- Top of Bedrock elevations were estimated in accordance with generally accepted geotechnical engineering practice. The elevation at which competent bedrock exists may not become evident until caissons are drilled. On-Site observation of the drilling and bearing strata by the Engineer will be provided to confirm the elevation at which the bedrock exists. Basis of payment will be made per Specification Section 503.09. A minimum of 7 days notice shall be given prior to the beginning of caisson construction.
- The use of temporary casing and dewatering during Caisson construction may be required. The cost of casing and dewatering shall not be paid for separately, but shall be included in Item 503 - Drilled caisson (36 Inch).
- The Contractor shall roughen the surface of the bottom 10 ft. of bedrock penetration, and clean the Caisson holes thoroughly prior to pouring concrete.



CAISSON ELEVATION



SECTION A

Print Date: 11/22/2010	
File Name: 16311BRDG_PH2_Support_GenLay.dgn	
Horiz. Scale: 1:10 Vert. Scale: As Noted	
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 **RLB**

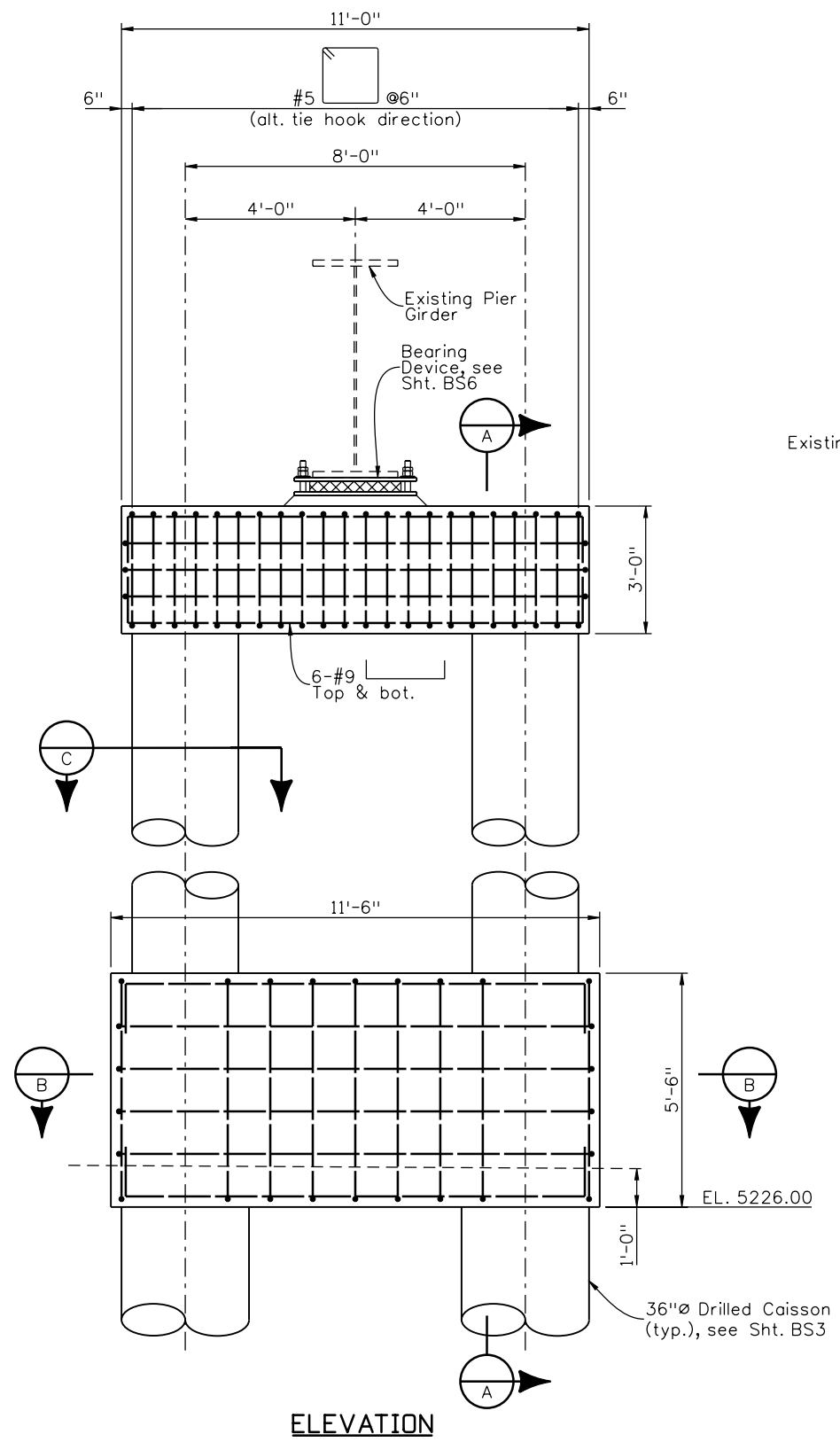
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I-25/SANTA FE INTERCHANGE			
TEMPORARY SUPPORT			
GENERAL LAYOUT & CAISSON DETAIL			
Designer:	B. BEAMS	Structure Numbers	F-16-DT
Detailer:	R. DILLON	Subset Sheets:	BS3 of 6

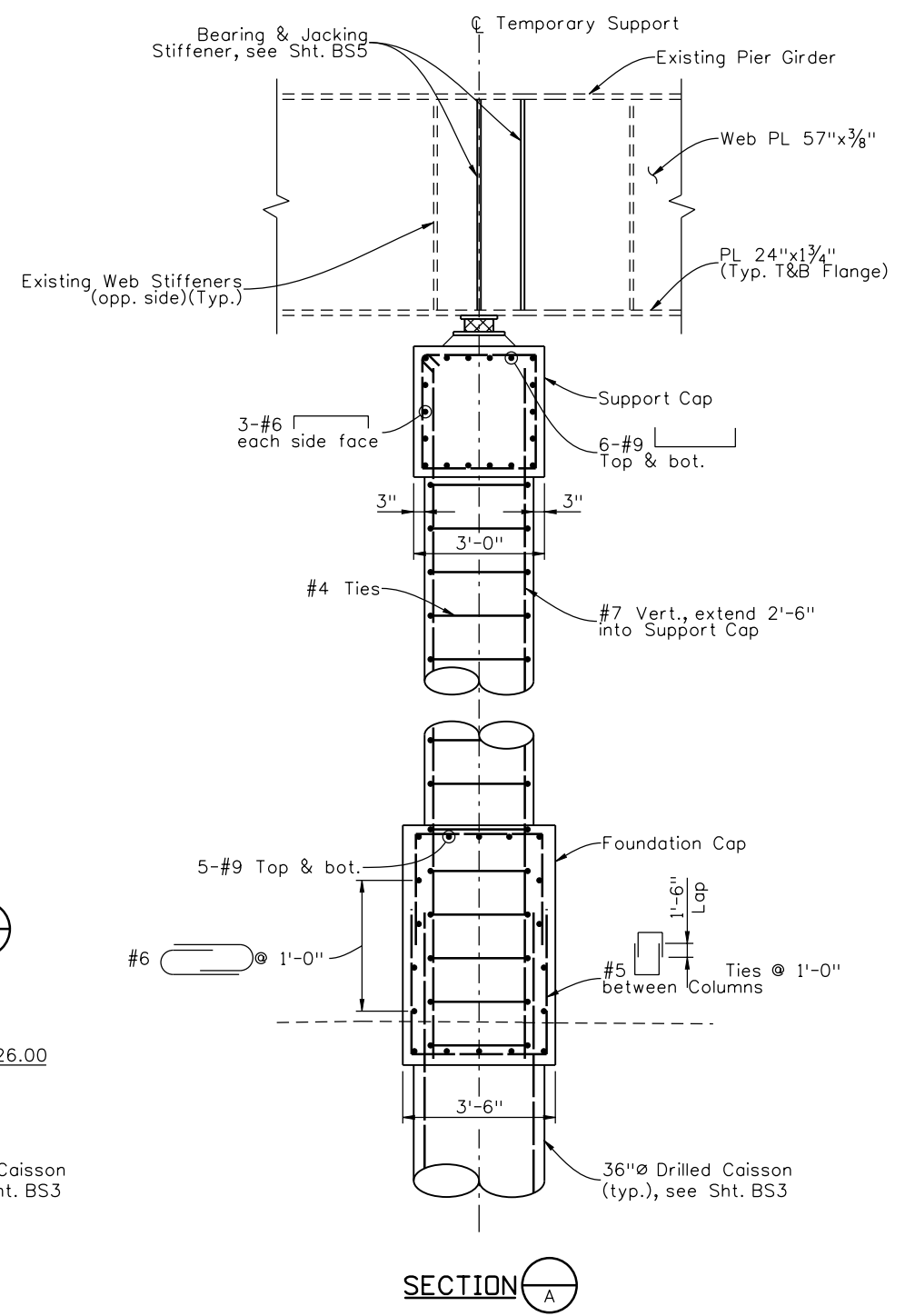
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17783
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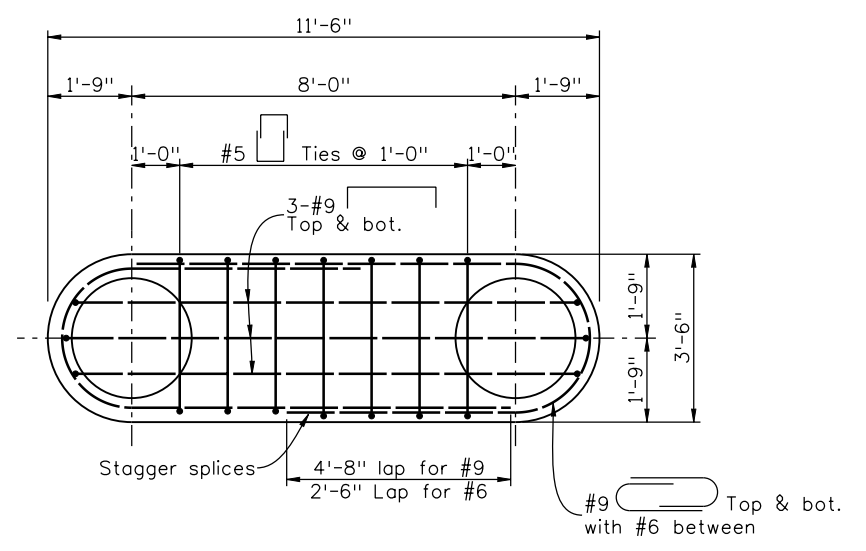
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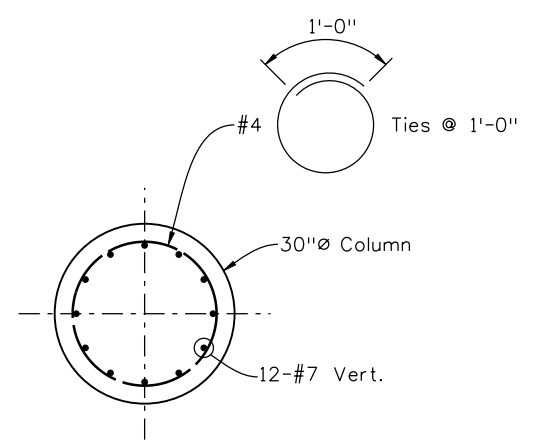
ELEVATION



SECTION A-A



FOUNDATION CAP SECTION B-B



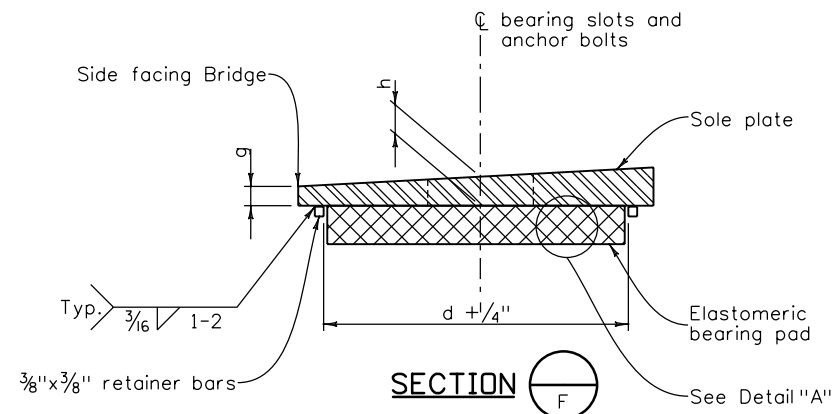
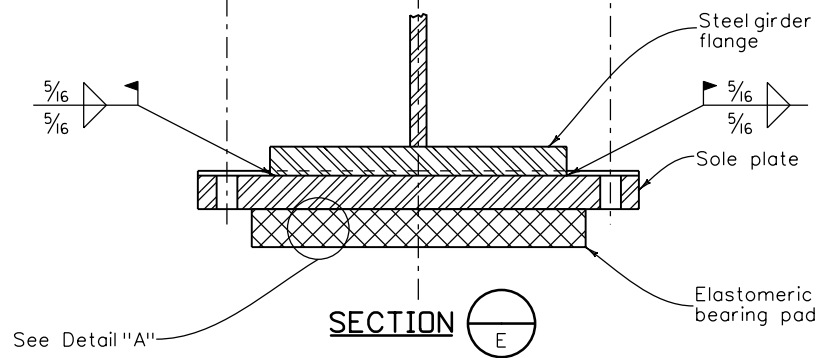
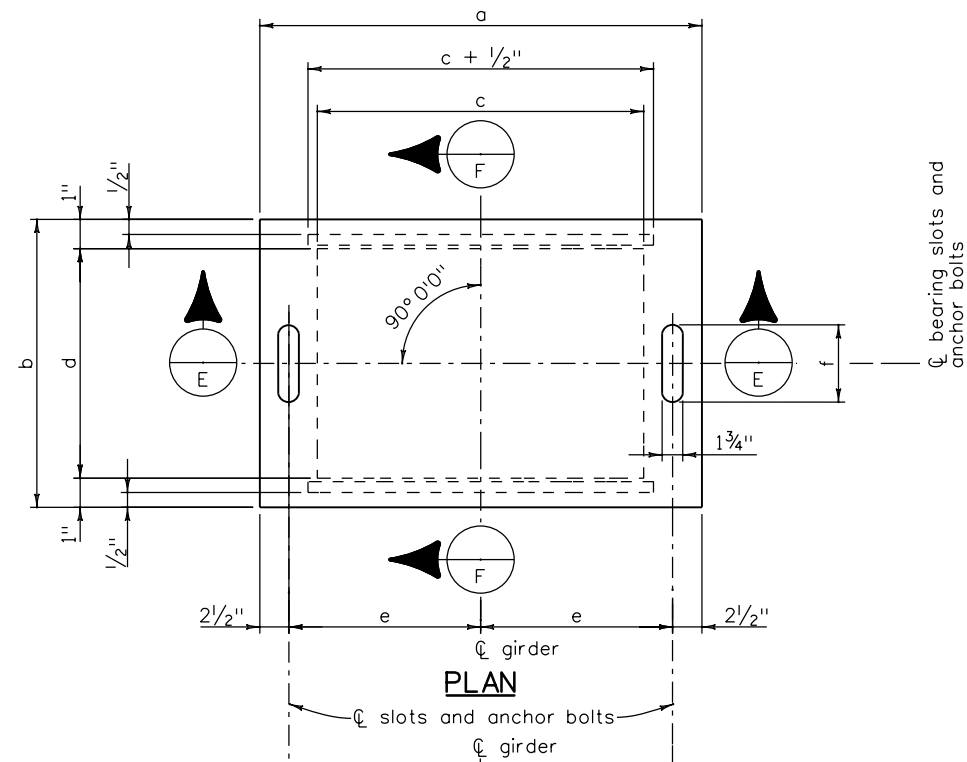
COLUMN SECTION C-C

Print Date: 11/22/2010		Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE TEMPORARY SUPPORT CONCRETE SECTIONS & DETAILS			Project No./Code BR 0252-407 17783 Sheet Number 272 A
File Name: 16311BRDG_PH2_Support_Details01.dgn		Date: 12/3/10	Comments: Misc. Revisions	Init.: PRS			Designer: B. BEAMS Detailer: R. DILLON Sheet Subset: BRIDGE	Structure: F-16-DT Subset Sheets: BS4 of 6		
Horiz. Scale: 1:1 Unit Information	Vert. Scale: As Noted Unit Leader Initials									

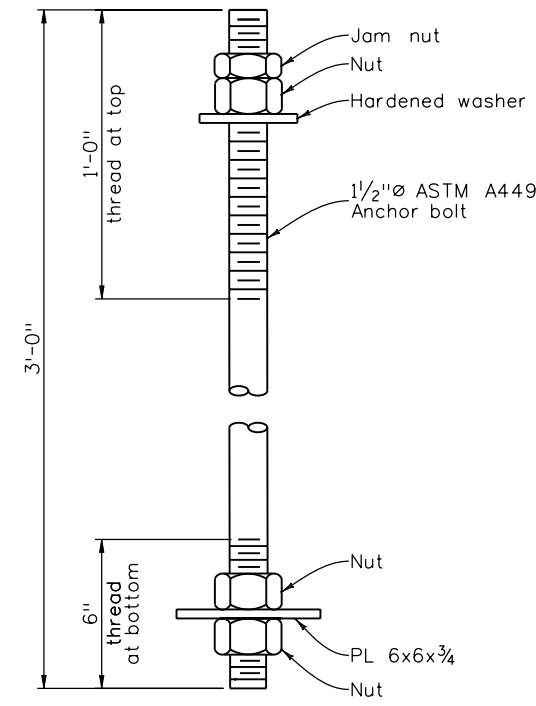
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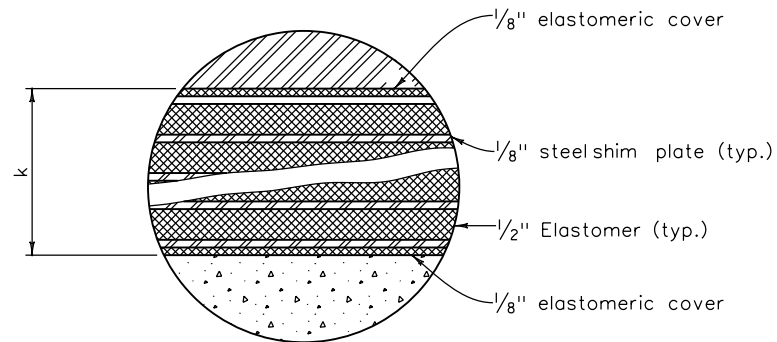
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PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By



ELASTOMERIC BEARING DETAILS



ANCHOR BOLT DETAIL
(2 required, Galvanize after fabrication)



No. Req'd	Vertical Service Load (kips)	Dimensions (Inches)									
		a	b	c	d	e	f	g	h	j	k
1	135	34	10	18	8	14 1/2	3 1/2	.925	1.000	1.075	1 5/8

Bearing Device Notes:

Provide $1/4"$ clearance between anchor bolt nut/hardened washer and sole plate; secure tight with jam nut.

Do not paint steel surfaces in contact with elastomeric pad.

Elastomeric pad, sole plate, anchor bolts and miscellaneous hardware shall be included in the bid price for Item 512, Bearing Device (Type I).

Grade 3 elastomer shall be used.

Higher grade elastomer may be substituted for grade 3.

Design shear modulus $G = 130$ psi. at $73^\circ F$.

Hardness = 60 Duro (Shore A).

AASHTO design method B has been used.

Print Date: 11/22/2010
 File Name: 16311BRDG_PH2_Support_Bearing.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

Colorado Department of Transportation

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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

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**I-25/SANTA FE INTERCHANGE
 TEMPORARY SUPPORT
 BEARING DEVICE (TYPE I)**

Designer: B. BEAMS Structure: F-16-DT
 Detailer: R. DILLON Numbers:
 Sheet Subset: BRIDGE Subset Sheets: BS6 of 6

Project No./Code
 BR 0252-407

17783

Sheet Number 274 A

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GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) 2005 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH M-206-1 FOR STRUCTURES.

EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER UNLESS DETAILED OR OTHERWISE NOTED.

STRUCTURAL CONCRETE EXPOSED TO SOIL SHALL CONFORM TO CEMENTITIOUS MATERIALS REQUIREMENTS CLASS 2, CORRESPONDING TO SULFATE EXPOSURE CLASS 2.

ALL ELECTRICAL CONDUIT IN BRIDGE CONCRETE LESS THAN 2" DIAMETER, SHALL BE GALVANIZED RIGID METAL CONDUIT. ALL CONDUIT RUNS SHALL INCLUDE A PULL STRING FOR FUTURE WIRING INSTALLATION.

A STRUCTURAL CONCRETE STAIN WILL BE REQUIRED ON EXPOSED CONCRETE SURFACES TO 1'-0" BELOW FINISHED GRADE, AS SHOWN ON THE PLANS. THE COLOR SHALL BE AS DESIGNATED IN THE AESTHETIC DETAILS.

THE TOP OF LEVELING PAD ELEVATIONS SHOWN FOR MSE WALLS ARE THE HIGHEST ALLOWABLE ELEVATIONS. THE CONCRETE LEVELING PAD SHALL BE STEPPED TO ACCOMMODATE THE GEOMETRY OF THE FACING PANEL. IN NO CASE SHALL THE TOP OF THE LEVELING PAD BE LESS THAN 1'-6" FROM FINISHED GRADE AT THE FRONT FACE. EXCEPT AS SHOWN IN THE PLANS, THE DISTANCE TO THE TOP OF LEVELING PAD SHALL NOT BE GREATER THAN ONE HALF A PANEL HEIGHT PLUS 1'-6" FROM FINISHED GRADE AT THE FRONT FACE, OR AS SHOWN ON THE PLANS.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED.

Ⓝ DENOTES NON EPOXY-COATED REINFORCING STEEL.

ALL REINFORCING SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE NOTED.

THE STOCK LENGTH USED FOR ALL REINFORCING IS 60 FEET.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENGTH FOR CLASS D CONCRETE	1'-3"	1'-7"	2'-5"	2'-10"	3'-8"	4'-8"	5'-11"	7'-3"

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS, THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B LAP SPLICE LENGTH FOR BLACK REINFORCING BARS PLACED IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER.

BAR SIZE	#4	#5	#6	#7	#8	#9	#10	#11
SPLICE LENGTH FOR CLASS D CONCRETE	1'-1"	1'-4"	1'-7"	1'-11"	2'-6"	3'-1"	3'-11"	4'-10"

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

ABUT. = ABUTMENT
B.F. = BACK FACE
BOT. = BOTTOM
BRG. = BEARING
DVG = DOUBLE VANE GRATE
E.F. = EACH FACE
EQ. = EQUAL

F.G. = FINISHED GRADE
HCL = HORIZONTAL CONTROL LINE
I.D. = INSIDE DIAMETER
I.F. = INSIDE FACE
O.F. = OUTSIDE FACE
SPA. = SPACING
T.O. = TOP OF

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 OR 1-800-922-1987 AT LEAST 3 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

SOIL BORING LOCATIONS ARE SHOWN IN PLAN ON WALL GENERAL LAYOUT SHEETS. ALSO SEE SHEET W62 FOR BORING LOG INFORMATION.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS FOR RETAINING WALLS ARE CALCULATED FROM A RECENT FIELD SURVEY AND FROM EXISTING PLANS. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TEMPORARY WALL NOTES

TEMPORARY WALLS SHALL BE DESIGNED FOR THE DESIGN HEIGHTS INDICATED IN THE GENERAL LAYOUTS. DESIGNS SHALL MEET OR EXCEED THE REINFORCEMENT LENGTH (RL) AND THE LONG-TERM DESIGN STRENGTH (LTDS) REQUIREMENTS SHOWN ON SHT. W27 FOR THE CORRESPONDING DESIGN HEIGHTS (DH). LTDS VALUES ON SHT. W27 ARE BASED ON 2'-6" ON-CENTER REINFORCING STRIP SPACING, VERTICALLY. WIRE FABRIC FACING WALLS REQUIRE DESIGN BASED ON 1'-0" ON-CENTER SPACING, VERTICALLY. SEE WIRE FABRIC FACING DETAIL, SHT. W64.

INTERIM ROADWAY DRAINAGE DESIGN AT TEMPORARY WALLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SEE PROJECT SPECIAL PROVISIONS, REVISION OF SECTION 206 AND 504, WIRE FABRIC FACED MSE WALLS.

SHORING NOTES

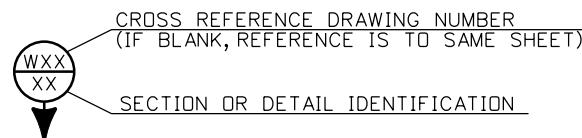
DESIGN AND CONSTRUCTION OF SHORING AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR.

SEE PROJECT SPECIAL PROVISIONS, REVISION OF SECTION 206 - SHORING.

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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
WJM	WJM	WJM	WJM	WJM	WJM



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**THREE (3) BUSINESS DAYS
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Unit Information Unit Leader Initials			Void:		Subset Sheets: W1 of 67	Sheet Number 275 A

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WALL DESCRIPTIONS

SEE PERMANENT RETAINING WALL KEY MAP

RAMP 2 WALL - STR. NO. WALL-F-16-DS
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 1146'-5"
 HEIGHT VARIES FROM 7'-4" TO 34'-6"
 LOCATED ALONG EAST SIDE OF I-25 & RAMP 2 NORTH OF BROADWAY VIADUCT

I-25 NB WALL 1 - STR. NO. WALL-F-16-DW
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 522'-8"
 HEIGHT VARIES FROM 7'-11" TO 26'-10"
 LOCATED ALONG EAST SIDE OF I-25 SOUTH OF SANTA FE

I-25 SB WALL 1 - STR. NO. WALL-F-16-DW
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 727'-7"
 HEIGHT VARIES FROM 7'-0" TO 32'-5"
 LOCATED ALONG WEST SIDE OF I-25 SOUTH OF SANTA FE

I-25 SB WALL 1B (PH. 4) & I-25 NB WALL 1B (PH. 2) - STRUCTURE NO. WALL-F-16-DW
 PRECAST CONCRETE PANEL FACED MSE WALL
 LENGTH ALONG WALL HCL = 176'-3" (TOTAL PH 2 & 4)
 HEIGHT VARIES FROM 13'-3" TO 17'-8"
 LOCATED AT FRONT FACE OF ABUT. 1 STR. NO. F-16-XS (I-25 OVER SANTA FE)

I-25 NB WALL 2 - STR. NO. WALL-F-16-DX
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 138'-6"
 HEIGHT VARIES FROM 7'-3" TO 22'-10"
 LOCATED ALONG EAST SIDE OF I-25 NORTH OF SANTA FE

I-25 SB WALL 2 - STR. NO. WALL-F-16-DX
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 578'-4"
 HEIGHT VARIES FROM 6'-11" TO 26'-2"
 LOCATED ALONG WEST SIDE OF I-25 NORTH OF SANTA FE

I-25 SB WALL 2B (PH. 4) & I-25 NB WALL 2B (PH. 2)
 PRECAST CONCRETE PANEL FACED MSE WALL
 LENGTH ALONG WALL HCL = 195'-8" (TOTAL PH 2 & 4)
 HEIGHT VARIES FROM 9'-5" TO 12'-1"
 LOCATED AT FRONT FACE OF ABUT. 4 STR. NO. F-16-XS (I-25 OVER SANTA FE)

RAMP 1 WALL 2 - STR. NO. WALL-F-16-DU
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 164'-0"
 HEIGHT VARIES FROM 2'-9" TO 11'-1"
 LOCATED ALONG WEST SIDE OF RAMP 1 WEST OF I-25 AT ABUT. 12 STR. NO. F-16-XR (RAMP 1 FLYOVER)

RAMP 1 WALL 3 - STR. NO. WALL-F-16-DV
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 260'-0"
 HEIGHT VARIES FROM 9'-9" TO 47'-4"
 LOCATED ALONG EAST SIDE OF RAMP 1 EAST OF I-25 AT ABUT. 12 STR. NO. F-16-XR (RAMP 1 FLYOVER)

RAMP 1 WALL 3B - STRUCTURE NO. F-16-DV
 PRECAST CONCRETE PANEL FACED MSE WALL
 LENGTH ALONG WALL HCL = 39'-0"
 HEIGHT VARIES FROM 9'-5" TO 12'-1"
 LOCATED AT FRONT FACE OF ABUT. 12, STR. NO. F-16-XR (RAMP 1 FLYOVER)

RAMP 1 WALL 4 - STR. NO. WALL-F-16-DV
 PRECAST CONCRETE PANEL FACED MSE WALL WITH BRIDGE RAIL SLAB & BRIDGE RAIL TYPE 7
 LENGTH ALONG WALL HCL = 120'-0"
 HEIGHT VARIES FROM 8'-0" TO 24'-5"
 LOCATED ALONG WEST SIDE OF RAMP 1 EAST OF I-25 AT RAMP 1 BRIDGE ABUT. 12

TEMPORARY (WIRE FABRIC FACED) WALL DESCRIPTIONS

SEE SHORING & TEMPORARY RETAINING WALL KEY MAP FOR LOCATIONS

TEMPORARY WALL A
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 507'-4"
 HEIGHT VARIES FROM 4'-6" TO 25'-2"

TEMPORARY WALL B
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 320'-0"
 HEIGHT VARIES FROM 3'-10" TO 10'-11"

TEMPORARY WALL C
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 340'-6"
 HEIGHT VARIES FROM 23'-3" TO 31'-3"

TEMPORARY WALL D
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 1100'-0"
 HEIGHT VARIES FROM 7'-4" TO 22'-11"

TEMPORARY WALL G
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 700'-0"
 HEIGHT VARIES FROM 5'-6" TO 16'-6"

TEMPORARY WALL H
 MECHANICALLY STABILIZED EARTH (MSE) WITH WIRE FABRIC FACING
 LENGTH ALONG WALL HCL = 255'-0"
 HEIGHT VARIES FROM 5'-4" TO 14'-9"

TEMPORARY WALLS WITH PRECAST PANEL FACING WALL DESCRIPTIONS

SEE SHORING & TEMPORARY RETAINING WALL KEY MAP

TEMPORARY WALL E
 PRECAST CONCRETE PANEL FACED MSE WALL
 LENGTH ALONG WALL HCL = 87'-7³/₈"
 HEIGHT VARIES FROM 16'-1" TO 16'-11"

LOCATED AT WEST ABUTMENT, TEMPORARY BRIDGE

TEMPORARY WALL F
 PRECAST CONCRETE PANEL FACED MSE WALL
 LENGTH ALONG WALL HCL = 176'-9"
 HEIGHT VARIES FROM 3'-4" TO 23'-7"

LOCATED AT EAST ABUTMENT, TEMPORARY BRIDGE

DESIGN DATA - MSE RETAINING WALLS

AASHTO, 16TH EDITION, AS AMENDED BY 1997, 1998, 1999 AND 2000 INTERIM REVISIONS.

DESIGN METHOD:
 SERVICE LOAD DESIGN - (MECHANICALLY STABILIZED EARTH WALLS)

DESIGN LOADS (MECHANICALLY STABILIZED EARTH WALLS):

UNIT WEIGHT OF CONCRETE = 150 pcf
 VERTICAL EARTH LOAD = 125 pcf
 EQUIVALENT FLUID PRESSURE = 35 pcf
 LIVE LOAD SURCHARGE = 2'-0" OF SOIL
 VEHICULAR HORIZONTAL IMPACT = 10 kip

FACTORS OF SAFETY FOR STATIC LOADING CONDITIONS (ALL WALLS):

SLIDING = 1.5
 OVERTURNING = 2
 PULLOUT = 1.5

FOUNDATION SOILS:

∅ VARIES, SEE SOIL REPORT (ANGLE OF INTERNAL FRICTION)
 ALLOWABLE BEARING = SEE CHART, THIS SHEET.

BACKFILL (CLASS 1) (ALL WALLS):

∅ = 34°
 Ka = 0.283

REINFORCED CONCRETE:

CONCRETE CLASS D (WALL): f'c = 4500 psi
 REINFORCING STEEL: fy = 60,000 psi

ALLOWABLE BEARING ON FOUNDATION SOILS

	ALLOWABLE BEARING	ESTIMATED SETTLEMENT
DH ≤ L 10 FT.	2.0 KSF	0.5 IN.
10 FT. < DH ≤ L 15 FT.	3.0 KSF	1.0 IN.
15 FT. < DH ≤ L 20 FT.	3.8 KSF	1.5 IN.
20 FT. < DH ≤ L 25 FT.	4.5 KSF	2.1 IN.
25 FT. < DH ≤ L 30 FT.	5.3 KSF	2.8 IN.
30 FT. < DH ≤ L 35 FT.	6.0 KSF	3.5 IN.

Design		Detail		Quantities	
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Designed By	WJM	Checked By	WJM	Checked By	WJE

Print Date: 11/19/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE			Project No./Code
File Name: 16311WALL_PH2_DesignData.dgn	Date:	Comments	Init.			DESIGN DATA			
Horiz. Scale: 1:1	12/3/10	Misc. Revisions	PRS	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	& WALL DESCRIPTIONS			
Unit Information					Region 6	Revised:	Designer: P. STEIN	Structure Numbers	MULTIPLE
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions				RLB	Void:	Detailer: R. DILLON	Sheet Subset: WALL	Subset Sheets: W2 of 67	Sheet Number 276 A

SUMMARY OF QUANTITIES - PERMANENT WALLS

ITEM NO.	DESCRIPTION	UNIT	RAMP 2 WALL WALL-F-16-DS	I-25 NB WALL 1 WALL-F-16-DW	I-25 NB WALL 1B WALL-F-16-DW	I-25 NB WALL 2 WALL-F-16-DX	I-25 NB WALL 2B WALL-F-16-DX	I-25 SB WALL 1 WALL-F-16-DW	I-25 SB WALL 1B WALL-F-16-DW	I-25 SB WALL 2 WALL-F-16-DX	I-25 SB WALL 2B WALL-F-16-DX	RAMP 1 WALL 2 WALL-F-16-DU	RAMP 1 WALL 3 WALL-F-16-DV	RAMP 1 WALL 3B WALL-F-16-DV	RAMP 1 WALL 4 WALL-F-16-DV	MONUMENTS AT STR. F-16-XS	TOTALS
202-00495	REMOVAL OF PORTIONS OF PRESENT STRUCTURE	LS	1														1
206-00000	STRUCTURE EXCAVATION	CY	3,908	1,638	806	438	391	5,913	797	4,118	951	0	1,655	①	1,031		21,646
206-00100	STRUCTURE BACKFILL (CLASS 1)	CY	10,238	10,815	3,782	2,236	2,993	18,871	3,888	10,490	2,916	641	3,561	①	1,366		71,797
206-00360	MECHANICAL REINFORCEMENT OF SOIL	CY	8,313	5,082	2,682	926	2,093	10,827	2,618	5,768	2,049	435	2,497	762	992		45,044
210-01000	RESET FENCE	LF	542														542
304-06007	AGGREGATE BASE COURSE (CLASS 6)	CY	1,871	1,213	351	297	329	1,925	327	1,354	309	333	594	①	264		9,167
503-00024	DRILLED CAISSON (24 INCH)	LF														③ 346	346
504-04420	PRECAST PANEL FACING	SF	19,489	8,717	1,239	1,713	914	15,477	1,392	9,965	989	954	4,447	469	1,765		67,530
601-03050	CONCRETE CLASS D (WALL)	CY	391	162		34		227		179		57	76		30	④ 96	1,252
601-40302	STRUCTURAL CONCRETE COATING (ANTI-GRAFFITI)	SF	27,266	10,731	1,003	2,365	716	19,608	1,193	14,174	823	2,070	6,309	411	2,265	2,226	91,160
601-40400	STRUCTURAL CONCRETE STAIN	SY	3,030	1,192	111	263	80	2,179	133	1,575	91	230	701	46	252	247	10,130
602-00020	REINFORCING STEEL (EPOXY COATED)	LB	60,525	25,265		4,955		34,370		27,865		8,335	11,500		4,570	② 12,185	189,570
606-10700	BRIDGE RAIL TYPE 7	LF	1,151	488		100		693		541		164	232		92		3,461
606-00730	GUARDRAIL TYPE 7 (STYLE CD)	LF	891														891
607-53137	FENCE CHAIN LINK (SPECIAL) (36 INCH)	LF	508														508
613-00200	2 INCH ELECTRICAL CONDUIT	LF	2,311	993		230		1,398		1,112			477		201		6,722

① Quantity is included in Ramp 1 Wall 3 and Ramp 1 Wall 4 quantities.


② Monument at Abut. 1 East: 3,035 LB
 Monument at Abut. 1 West: 3,460 LB
 Monument at Abut. 4 East: 2,680 LB
 Monument at Abut. 4 West: 3,010 LB

③ Monument at Abut. 1 East: 115 LF
 Monument at Abut. 1 West: 115 LF
 Monument at Abut. 4 East: 106 LF
 Monument at Abut. 4 West: 106 LF

④ Monument at Abut. 1 East: 24 CY
 Monument at Abut. 1 West: 28 CY
 Monument at Abut. 4 East: 21 CY
 Monument at Abut. 4 West: 23 CY

Design				Detail				Quantities							
Designed By	INITIAL	DATE	9/10	Detailed By	INITIAL	DATE	9/10	Checked By	INITIAL	DATE	10/10	Checked By	INITIAL	DATE	10/10
Checked By	WJM	10/10	Checked By	WJM	10/10	Checked By	WJM	10/10	Checked By	WJM	10/10	Checked By	WJM	10/10	Checked By


Print Date: 12/14/2010
 File Name: 16311WALL_PH2_Quantities01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials



6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS
1/3/11	Misc. Revisions	PRS

Colorado Department of Transportation



2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

**I-25/SANTA FE INTERCHANGE
 SUMMARY OF QUANTITIES
 PERMANENT WALLS**

Designer: P. STEIN Structure Numbers: MULTIPLE
 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W3 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 277 B

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Checked By	9/10	Checked By	9/10	Checked By	10/10
Checked By	10/10	Checked By	10/10	Checked By	10/10

SUMMARY OF QUANTITIES - SHORING & TEMPORARY WALLS											
ITEM NO.	DESCRIPTION	UNIT	TEMPORARY WALL A	TEMPORARY WALL B	TEMPORARY WALL C	TEMPORARY WALL D	TEMPORARY WALL E	TEMPORARY WALL F	TEMPORARY WALL G	TEMPORARY WALL H	TOTALS
202-00165	REMOVAL OF WALL	LS							0.5	0.5	1
206-00000	STRUCTURE EXCAVATION	CY	1,936	1,101	1,895	5,635	②	900	1,772	361	13,600
206-00100	STRUCTURE BACKFILL (CLASS 1)	CY	7,832	1,463	9,284	14,499	②	2,697	3,062	1,126	39,963
① 206-00360	MECHANICAL REINFORCEMENT OF SOIL	CY	4,028	617	6,504	7,846	1246	1,651	2,416	856	25,164
206-01781	SHORING (AREA 1)	LS									1
206-01782	SHORING (AREA 2)	LS									1
206-01783	SHORING (AREA 3)	LS									1
206-01784	SHORING (AREA 4)	LS									1
304-06007	AGGREGATE BASE COURSE (CLASS 6)	CY	1,020	484	966	2,074	②	401	906		5,851
504-04420	PRECAST PANEL FACING	SF					1631	2,798			4,429

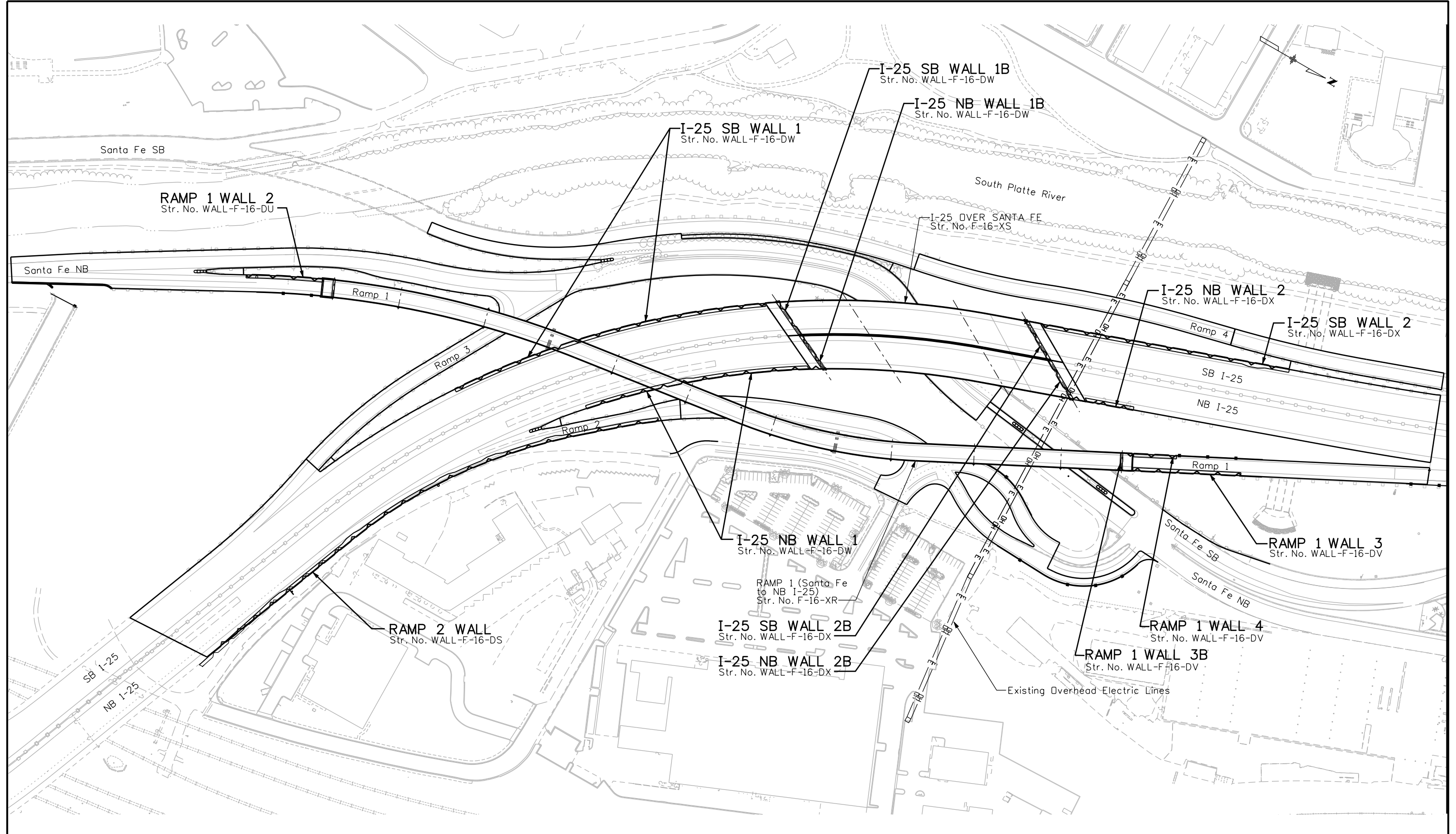
- ① The amount of Wire Fabric Facing for each of the Temporay Walls is provided for information only. The cost of the Wire Fabric Facing shall be included in Item 206 - Mechanical Reinforcemnet of Soil:
- Temporary Wall A has approximately 8,174 sf of Wire Fabric Facing
 - Temporary Wall B has approximately 2,390 sf of Wire Fabric Facing
 - Temporary Wall C has approximately 9,225 sf of Wire Fabric Facing
 - Temporary Wall D has approximately 16,835 sf of Wire Fabric Facing
 - Temporary Wall G has approximately 7,470 sf of Wire Fabric Facing
 - Temporary Wall H has approximately 2,696 sf of Wire Fabric Facing
- ② The quantity is included in Temporary Wall C and Temporary Wall D.

Print Date: 12/21/2010			As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE SUMMARY OF QUANTITIES SHORING & TEMPORARY WALLS		Project No./Code	
File Name: 16311WALL_PH2_Quantities02.dgn						BR 0252-407	
Horiz. Scale: 1:1 Vert. Scale: As Noted						17783	
Unit Information Unit Leader Initials				Designer: P. STEIN	Structure Numbers	Sheet Number	278 B
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions		2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	Region 6 RLB	Designer: P. STEIN Detailer: R. DILLON Sheet Subset: WALL	Structure Numbers Subset Sheets: W4 of 67	Sheet Number 278 B	

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 10/22/2010 CDDT-PDFDraftQuality_XM.plt cfdg CDDT-PenTable.tbl

Revision Dates		Quantities	
DATE	BY	INITIAL	DATE

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



Print Date: 10/22/2010
 File Name: 16311WALL_PH2_KeyMapPermanent.dgn
 Horiz. Scale: 1:200 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

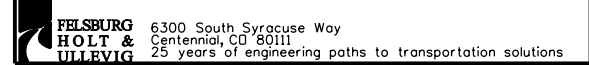
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE PERMANENT RETAINING WALL KEY MAP			
Designer:	P. STEIN	Structure	MULTIPLE
Detailer:	R. DILLON	Numbers	
Sheet Subset:	MAP	Subset Sheets:	W5 of 67

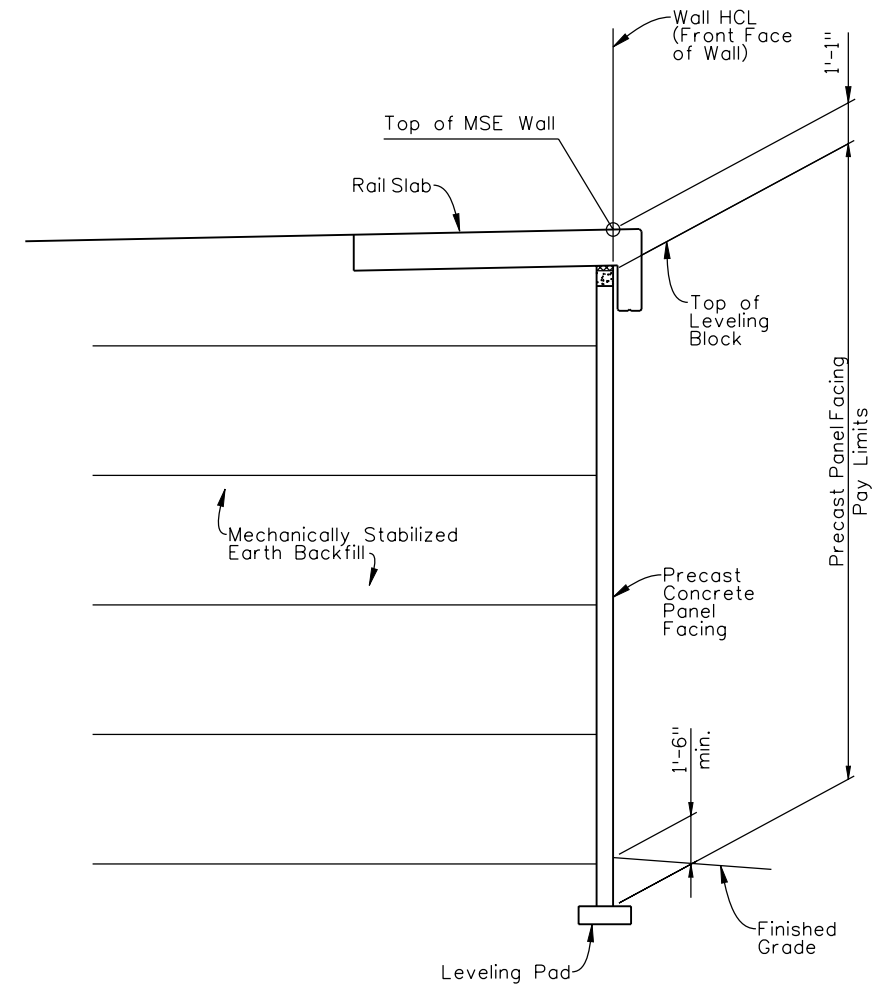
Project No./Code
BR 0252-407
17783
Sheet Number 279



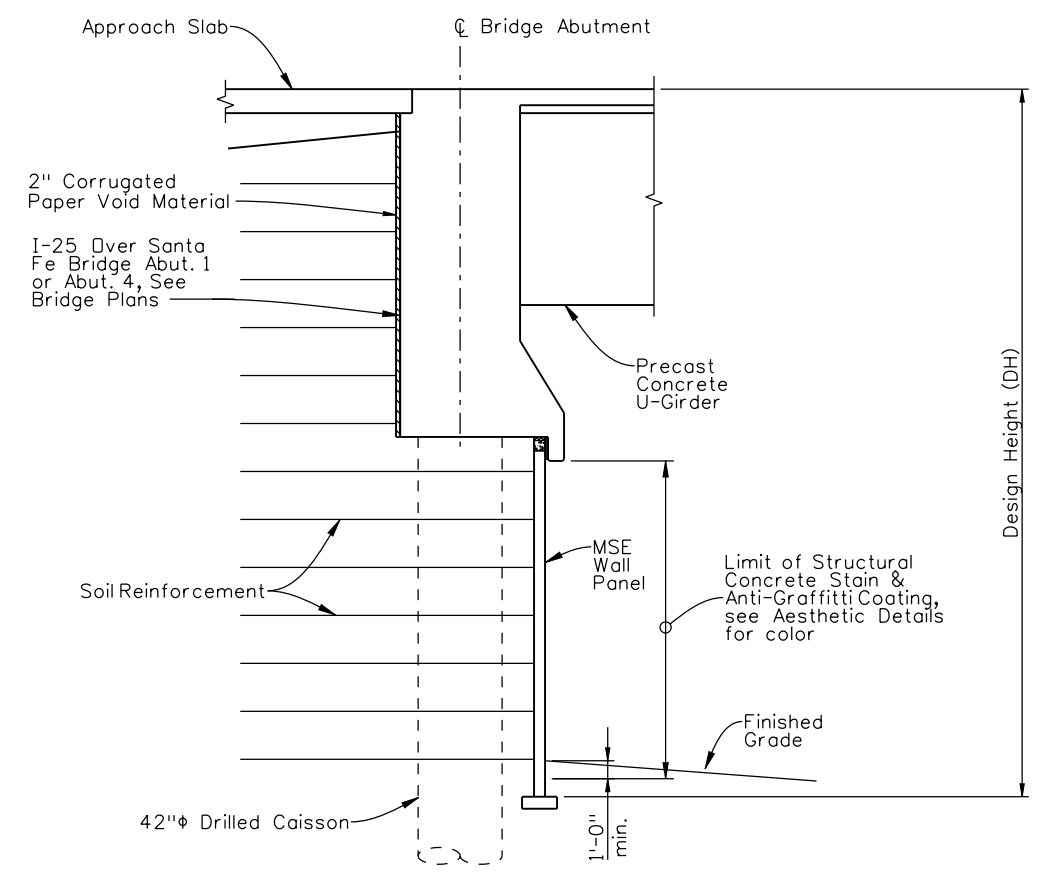
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Revision Dates (Preliminary Stage Only)	
MM/YY	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



MSE RETAINING WALL PAY LIMITS
 The Top of Leveling Pad elevations shown on the General Layouts are the highest allowable elevations. The wall system manufacturer may revise these elevations, but must satisfy the minimum earth cover requirement.



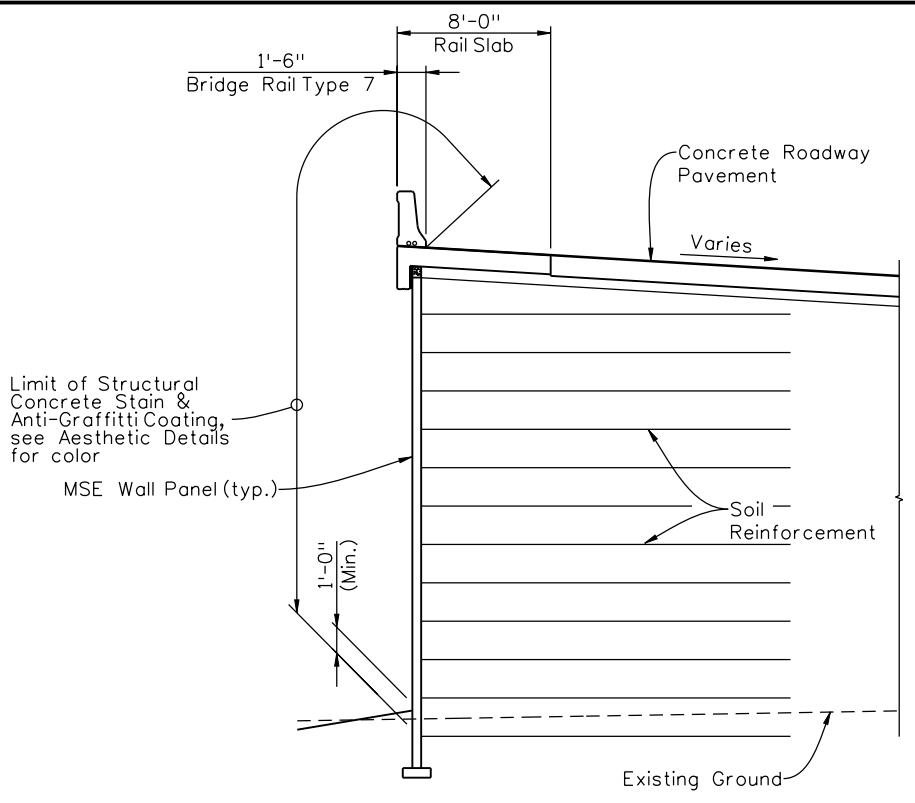
I-25 SB WALL 1B & I-25 NB WALL 1B
I-25 SB WALL 2B & I-25 NB WALL 2B

Print Date: 11/19/2010 File Name: 16311WALL_PH2_TypSections01.dgn Horiz. Scale: 1:1 Vert. Scale: As Noted Unit Information Unit Leader Initials	Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td>12/3/10</td> <td>Misc. Revisions</td> <td>PRS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Date:	Comments	Init.	12/3/10	Misc. Revisions	PRS							Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE TYPICAL WALL SECTIONS (1 OF 3) Designer: P. STEIN Structure: MULTIPLE Detailer: R. DILLON Numbers: Sheet Subset: WALL Subset Sheets: W6 of 67	Project No./Code BR 0252-407 17783 Sheet Number 280 A
Date:	Comments	Init.															
12/3/10	Misc. Revisions	PRS															

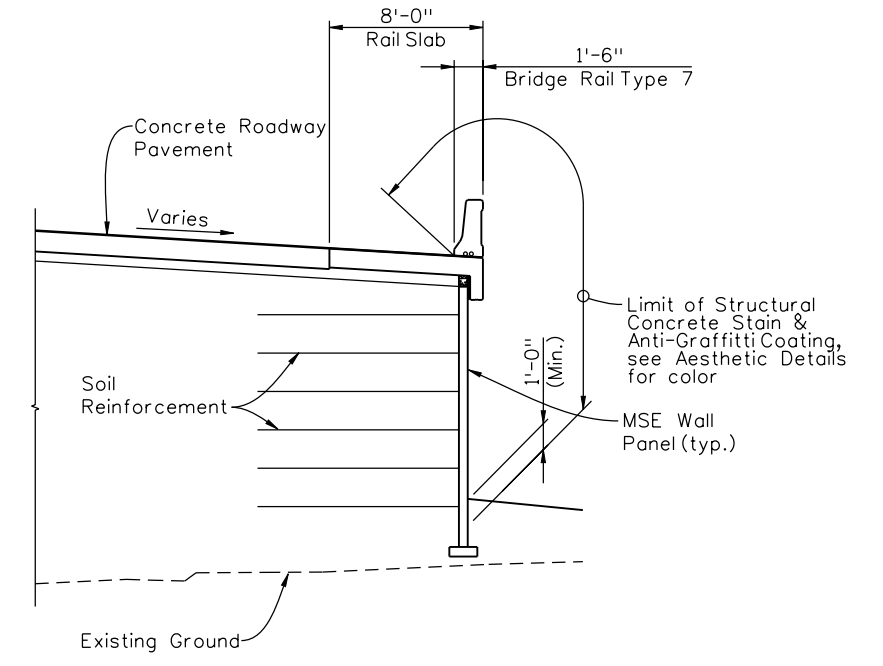
FELSBURG HOLT & ULLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

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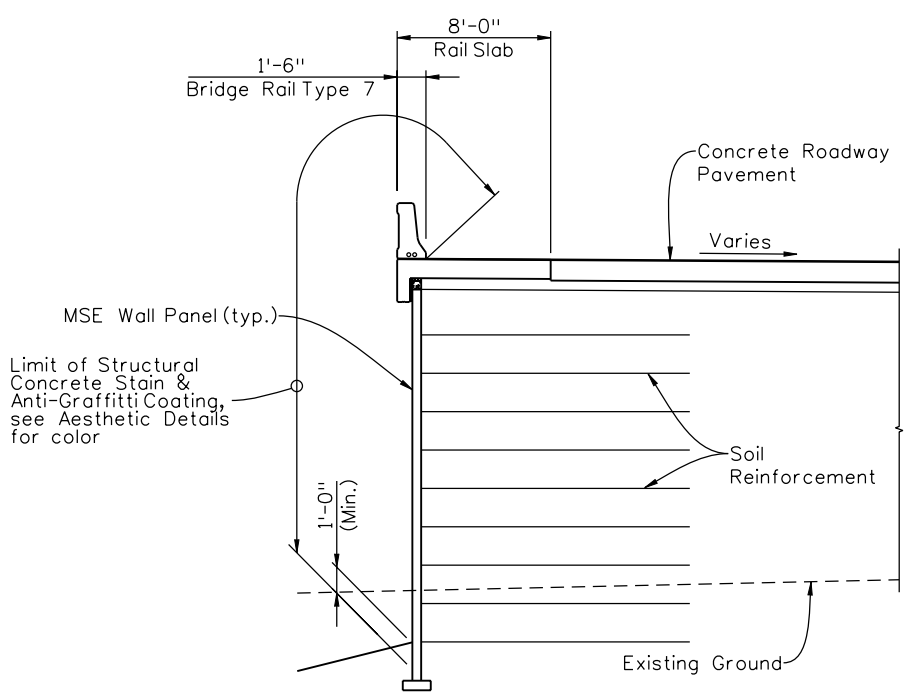
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WJM	10/10	WJM	10/10	WJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By



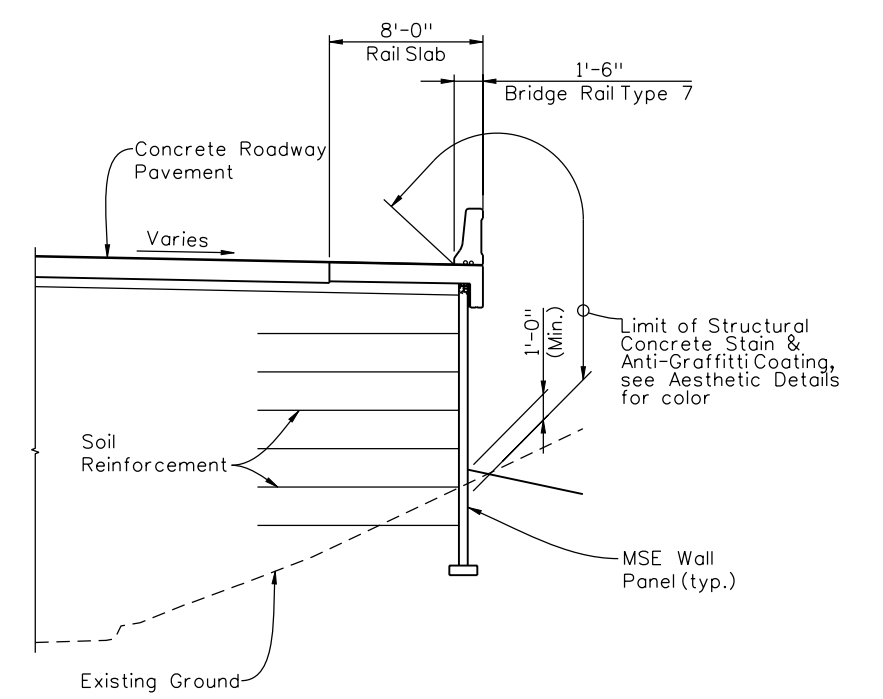
I-25 SB WALL 1
(Shown at I-25 Sta. 628+00.00)






I-25 NB WALL 1
(Shown at I-25 Sta. 628+00.00)



I-25 SB WALL 2
(Shown at I-25 Sta. 637+50.00)

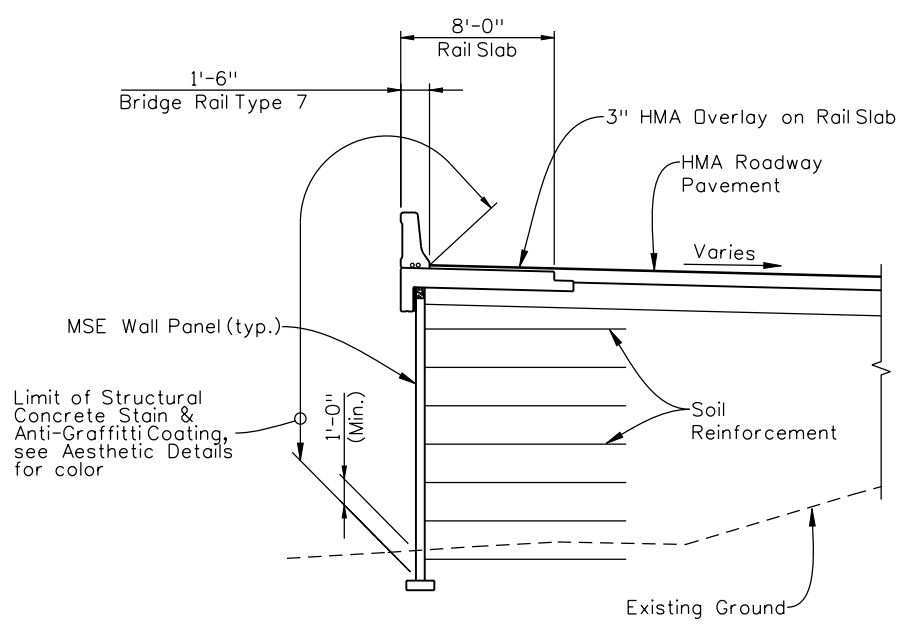


I-25 NB WALL 2
(Shown at I-25 Sta. 637+50.00)

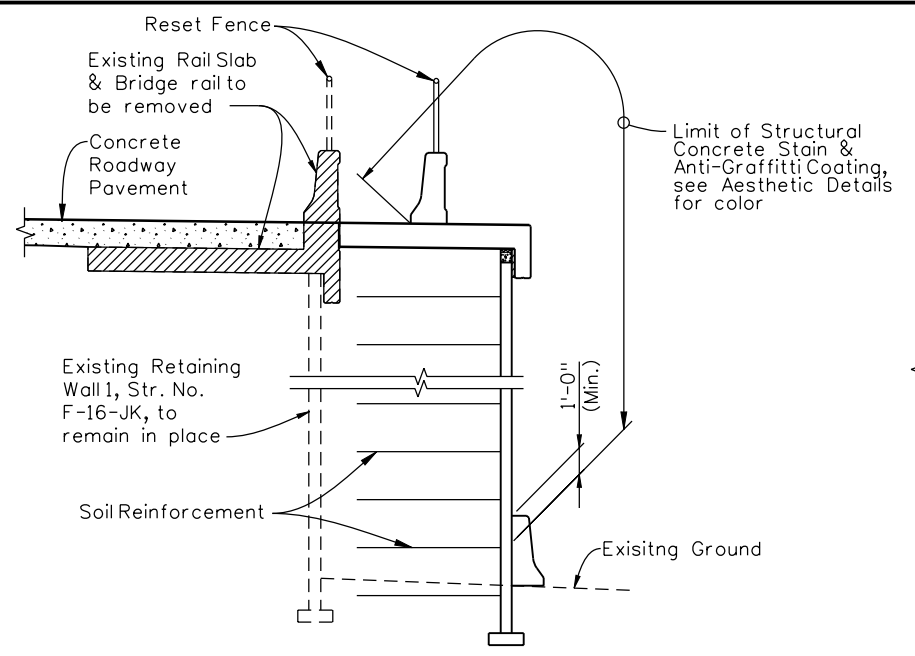
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File Name: 16311WALL_PH2_TypSections01.dgn		Date:	Comments	Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114		No Revisions:		TYPICAL WALL SECTIONS (2 OF 3) Designer: P. STEIN Structure: MULTIPLE Detailer: R. DILLON Numbers:		BR 0252-407	
Horiz. Scale: 1:1 Vert. Scale: As Noted		12/3/10	Misc. Revisions	PRS			Revised:				Sheet Subset: WALL Subset Sheets: W7 of 67	
Unit Information Unit Leader Initials					Region 6 		Void:				Sheet Number 281 A	
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions							RLB					

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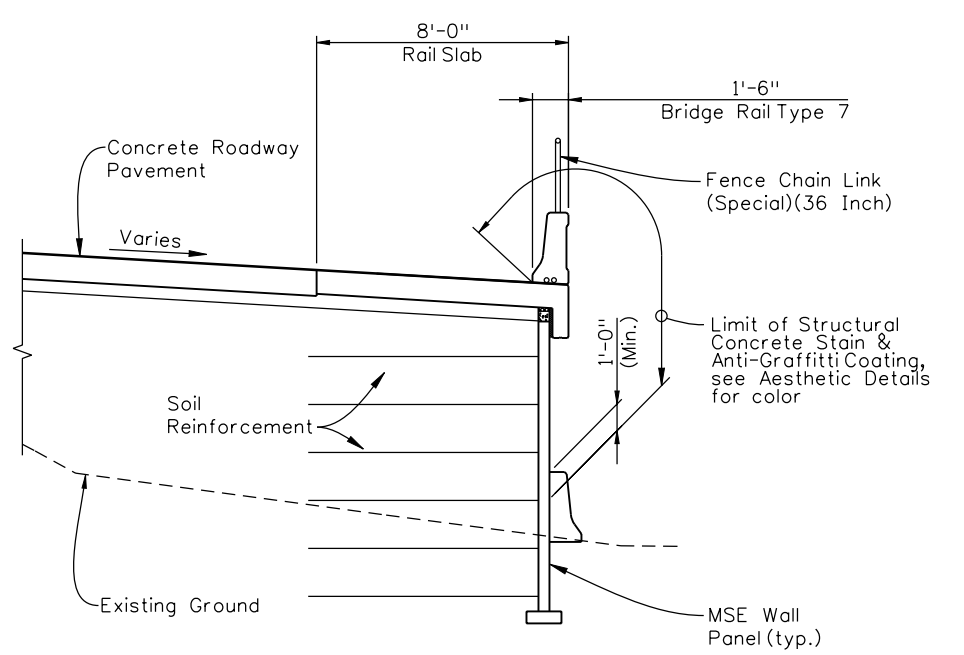
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Checked By	Checked By	Checked By	Checked By	Checked By	Checked By
WJM	10/10	WJM	10/10	WJE	10/10



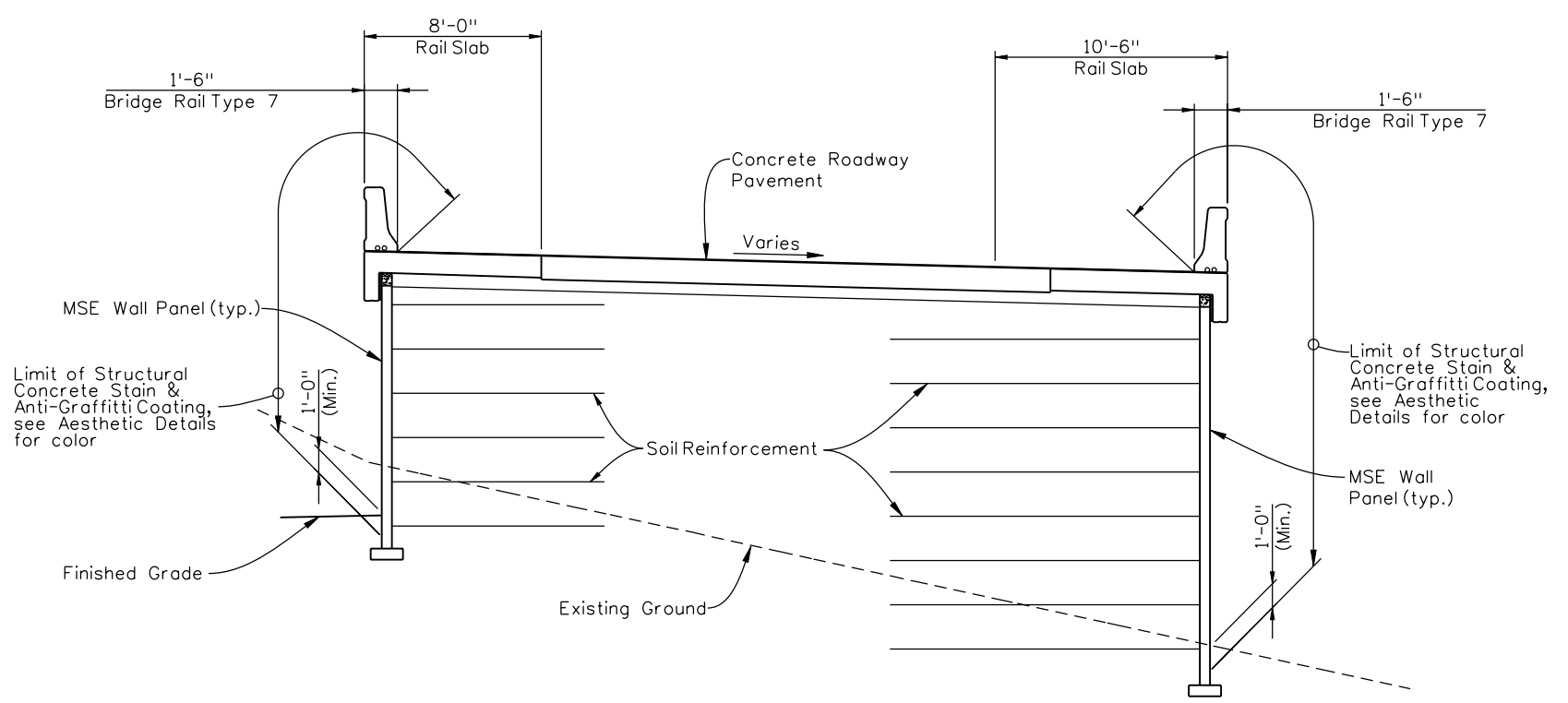
RAMP 1 WALL 2
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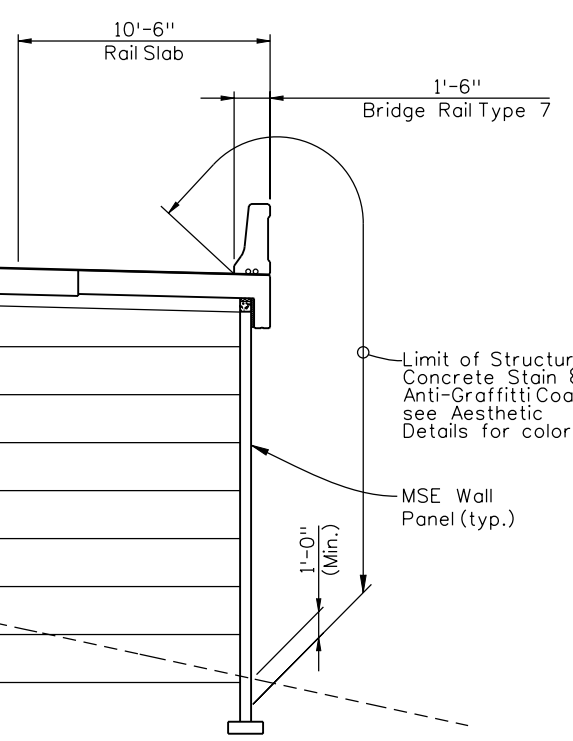
RAMP 2 WALL
(Shown at Ramp 2 Sta. 1+50)



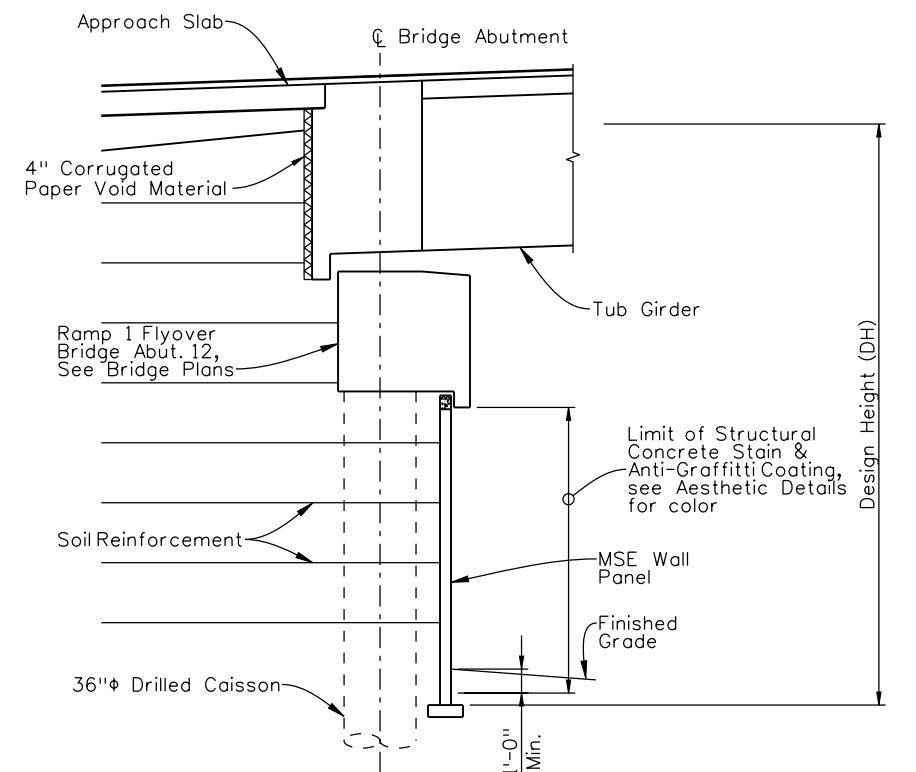
RAMP 2 WALL
(Shown at Ramp 2 Sta. 6+50)



RAMP 1 WALL 4
(Shown at Ramp 1 Sta. 130+00)



RAMP 1 WALL 3
(Shown at Ramp 1 Sta. 130+00)



RAMP 1 WALL 3B
(At Ramp 1 Flyover Bridge Abutment 12)

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_TypSections01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

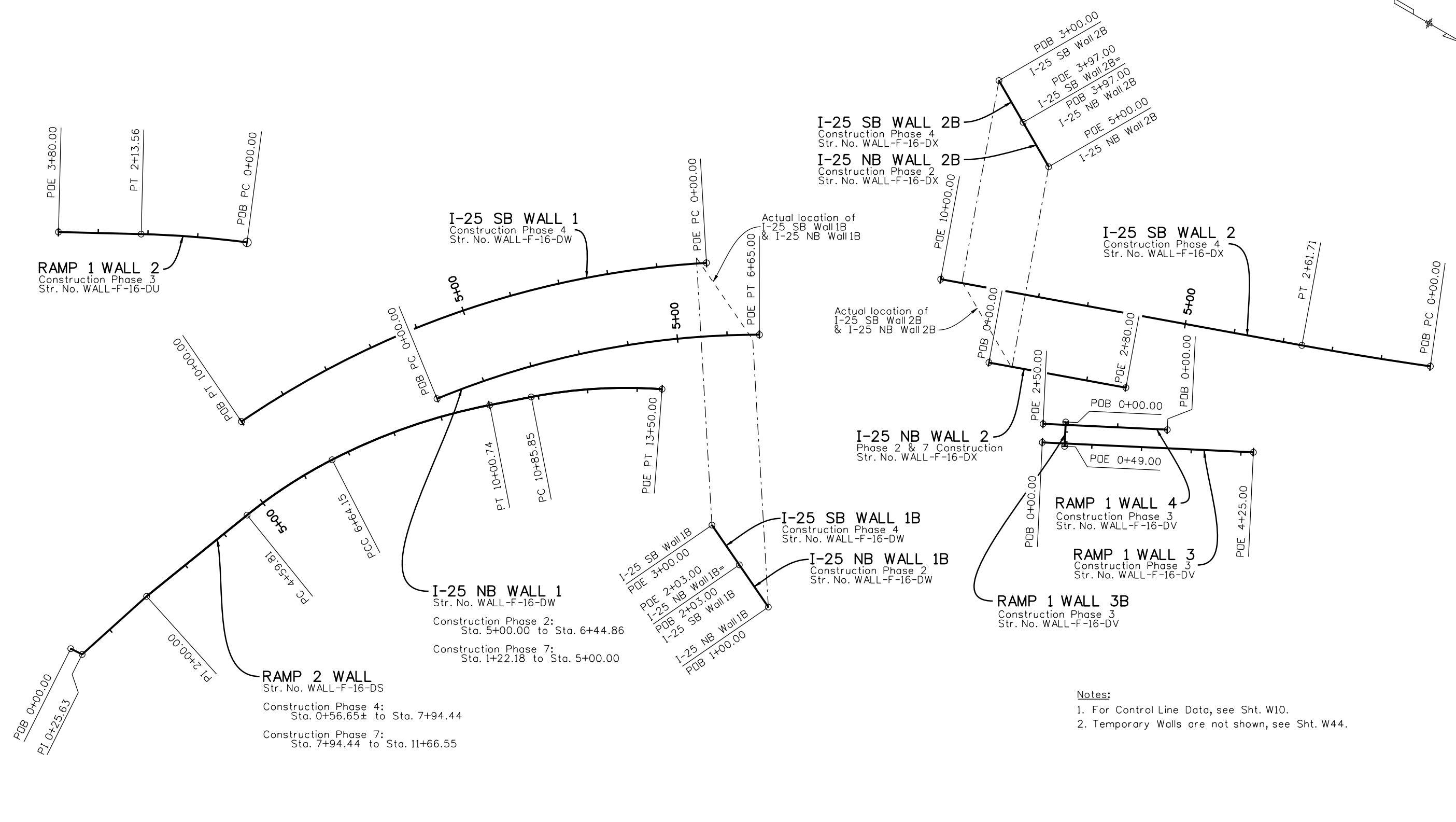
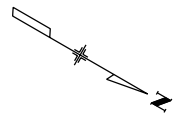
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
TYPICAL WALL SECTIONS (3 OF 3)
 Designer: P. STEIN Structure Numbers: MULTIPLE
 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W8 of 67

Project No./Code
 BR 0252-407
 17783
 Sheet Number **282 A**



- Notes:**
1. For Control Line Data, see Sht. W10.
 2. Temporary Walls are not shown, see Sht. W44.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PKS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_WallGeom01.dgn
 Horiz. Scale: 1:200 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

Colorado Department of Transportation



2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed

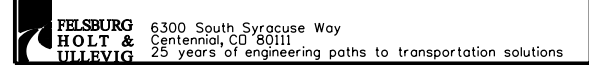
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Revised:

Void:

I-25/SANTA FE INTERCHANGE PERMANENT RETAINING WALL HCL GEOMETRIC PLAN			
Designer:	P. STEIN	Structure	MULTIPLE
Detailer:	R. DILLON	Numbers	
Sheet Subset:	WALL	Subset Sheets:	W9 of 67

Project No./Code
 BR 0252-407
 17783
 Sheet Number 283 A



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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PKS	9/10	RAD	9/10	CAU	10/10
Checked By	WJM	Checked By	WJM	Checked By	MJE
Checked By	WJM	Checked By	WJM	Checked By	MJE

Horizontal Control Line Geometry I-25 NB WALL 1

Str. No. WALL-F-16-DW

Element:	Station	Northing	Easting
Circular			
PC	0+00.00	679988.9990	961288.6690
PI	3+36.80	680194.3662	961021.7271
CC		681337.4171	962326.0513
PT	6+65.00	680485.9487	960853.1647
Radius:	1701.29		
Delta:	22°23'44.67"	Right	
Degree of Curvature (Arc):	3°22'04.01"		
Length:	665		
Tangent:	336.8		
Tangent Direction:	N 52°25'39.84" W		
Tangent Direction:	N 30°01'55.17" W		

Horizontal Control Line Geometry I-25 SB WALL 1

Str. No. WALL-F-16-DW

Element:	Station	Northing	Easting
Circular			
PC	0+00.00	680321.6100	960781.4289
PI	5+12.56	679893.3594	961063.0640
CC		681337.4171	962326.0513
PT	10+00.00	679671.2681	961525.0082
Radius:	1848.71		
Delta:	30°59'32.44"	Left	
Degree of Curvature (Arc):	3°05'57.24"		
Length:	1000		
Tangent:	512.56		
Tangent Direction:	S 33°19'50.01" E		
Tangent Direction:	S 64°19'22.46" E		

Horizontal Control Line Geometry Ramp 1 Wall 2

Str. No. WALL-F-16-DU

Element:	Station	Northing	Easting
Circular			
PC	0+00.00	679500.9326	961207.6203
PI	1+06.88	679402.1863	961248.5226
CC		680272.6968	963070.8144
PT	2+13.56	679308.3165	961299.6332
Radius:	2016.71		
Delta:	6°04'02.98"	Left	
Degree of Curvature (Arc):	2°50'27.80"		
Length:	213.56		
Tangent:	106.88		
Tangent Direction:	S 22°30'00.36" E		
Tangent Direction:	S 28°34'03.34" E		
Linear			
PT	2+13.56	679308.3165	961299.6332
POE	3+80.00	679162.1443	961379.2216
Tangent Direction:	S 28°34'03.34" E		
Tangent Length:	166.44		

Horizontal Control Line Geometry RAMP 2 Wall

Str. No. WALL-F-16-DS

Element:	Station	Northing	Easting
Linear			
POB	0+00.00	679602.2302	962092.0146
PI	0+25.63	679627.8206	962090.5316
Tangent Direction:	N 3°19'00.00" W		
Tangent Length:	25.63		
Linear			
PI	0+25.63	679627.8206	962090.5316
PI	2+00.00	679681.7043	961924.6955
Tangent Direction:	N 71°59'59.65" W		
Tangent Length:	174.37		
Linear			
PI	2+00.00	679681.7043	961924.6955
PC	4+59.81	679775.1251	961682.2577
Tangent Direction:	N 68°55'34.96" W		
Tangent Length:	259.81		
Circular			
PC	4+59.81	679775.1251	961682.2577
PI	5+62.34	679811.9898	961586.5895
CC		680707.5833	962041.5702
PCC	6+64.15	679867.5127	961500.4000
Radius:	999.29		
Delta:	11°42'57.07"	Right	
Degree of Curvature (Arc):	5°44'01.10"		
Length:	204.34		
Tangent:	102.53		
Tangent Direction:	N 68°55'34.96" W		
Tangent Direction:	N 57°12'37.89" W		
Circular			
PCC	6+64.15	679867.5127	961500.4000
PI	8+33.57	679959.2648	961357.9712
CC		680868.9912	962145.5486
PT	10+00.74	680087.0877	961246.7700
Radius:	1191.29		
Delta:	16°11'18.54"	Right	
Degree of Curvature (Arc):	4°48'34.38"		
Length:	336.59		
Tangent:	169.42		
Tangent Direction:	N 57°12'37.89" W		
Tangent Direction:	N 41°01'19.35" W		
Linear			
PT	10+00.74	680087.0877	961246.7700
PC	10+85.85	680151.2967	961190.9107
Tangent Direction:	N 41°01'19.35" W		
Tangent Length:	85.11		
Circular			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

Horizontal Control Line Geometry I-25 NB WALL 1B

Str. No. WALL-F-16-DW

Element:	Station	Northing	Easting
Linear			
POB	1+00.00	680479.4898	960868.5445
POE	2+03.00	680386.4989	960824.2536
Tangent Direction:	S 25°28'05.21" W		
Tangent Length:	103		

Horizontal Control Line Geometry I-25 SB WALL 1B

Str. No. WALL-F-16-DW

Element:	Station	Northing	Easting
Linear			
POB	2+03.00	680386.4989	960824.2536
POE	3+00.00	680298.9249	960782.5428
Tangent Direction:	S 25°28'05.21" W		
Tangent Length:	97		

Horizontal Control Line Geometry RAMP 1 WALL 3

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
POB	0+00.00	681086.8148	960756.2497
POE	4+25.00	681464.4042	960561.1823
Tangent Direction:	N 27°19'17.19" W		
Tangent Length:	425		

Horizontal Control Line Geometry RAMP 1 WALL 3B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
POB	0+00.00	681107.1643	960697.1033
POE	0+49.00	681129.6544	960740.6371
Tangent Direction:	N 62°40'42.81" E		
Tangent Length:	49		

Horizontal Control Line Geometry I-25 NB WALL 2

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Linear			
POB	0+00.00	680913.7037	960670.9224
POE	2+80.00	681177.4372	960576.8777
Tangent Direction:	N 19°37'32.56" W		
Tangent Length:	280		

Horizontal Control Line Geometry I-25 SB WALL 2

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Circular			
PC	0+00.00	681686.1537	960233.5773
PI	1+30.87	681564.6830	960282.2811
CC		679175.5091	953971.8591
PT	2+61.71	681441.4149	960326.2373
Radius:	6746.29		
Delta:	2°13'21.63"	Right	
Degree of Curvature (Arc):	0°50'57.45"		
Length:	261.71		
Tangent:	130.87		
Tangent Direction:	S 21°50'54.19" E		
Tangent Direction:	S 19°37'32.56" E		
Linear			
PT	2+61.71	681441.4149	960326.2373
POE	10+00.00	680746.0136	960574.2102
Tangent Direction:	S 19°37'32.56" E		
Tangent Length:	738.29		

Horizontal Control Line Geometry RAMP 1 WALL 4

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
POB	0+00.00	681291.6946	960608.2915
POE	2+50.00	681069.5834	960723.0369
Tangent Direction:	S 27°19'17.19" E		
Tangent Length:	250		

Horizontal Control Line Geometry RAMP 1 WALL 4B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

Horizontal Control Line Geometry I-25 NB WALL 2B

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Linear			
POB	3+97.00	680869.9747	960605.8358
POE	5+00.00	680959.1992	960657.2944
Tangent Direction:	N 29°58'24.19" E		
Tangent Length:	103		

Horizontal Control Line Geometry I-25 SB WALL 2B

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Linear			
POB	3+00.00	680785.9477	960557.3749
POE	3+97.00	680869.9747	960605.8358
Tangent Direction:	N 29°58'24.19" E		
Tangent Length:	97		

Horizontal Control Line Geometry RAMP 1 WALL 4B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

Horizontal Control Line Geometry RAMP 1 WALL 4B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

Horizontal Control Line Geometry I-25 NB WALL 2B

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Linear			
POB	3+97.00	680869.9747	960605.8358
POE	5+00.00	680959.1992	960657.2944
Tangent Direction:	N 29°58'24.19" E		
Tangent Length:	103		

Horizontal Control Line Geometry I-25 SB WALL 2B

Str. No. WALL-F-16-DX

Element:	Station	Northing	Easting
Linear			
POB	3+00.00	680785.9477	960557.3749
POE	3+97.00	680869.9747	960605.8358
Tangent Direction:	N 29°58'24.19" E		
Tangent Length:	97		

Horizontal Control Line Geometry RAMP 1 WALL 4B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

Horizontal Control Line Geometry RAMP 1 WALL 4B

Str. No. WALL-F-16-DV

Element:	Station	Northing	Easting
Linear			
PC	10+85.85	680151.2967	961190.9107
PI	12+18.71	680251.5369	961103.7055
CC		680801.9303	961938.7978
PT	13+50.00	680371.2030	961045.9746
Radius:	991.29		
Delta:	15°16'04.25"	Right	
Degree of Curvature (Arc):	5°46'47.68"		
Length:	264.15		
Tangent:	132.86		
Tangent Direction:	N 41°01'19.35" W		
Tangent Direction:	N 25°45'15.10" W		

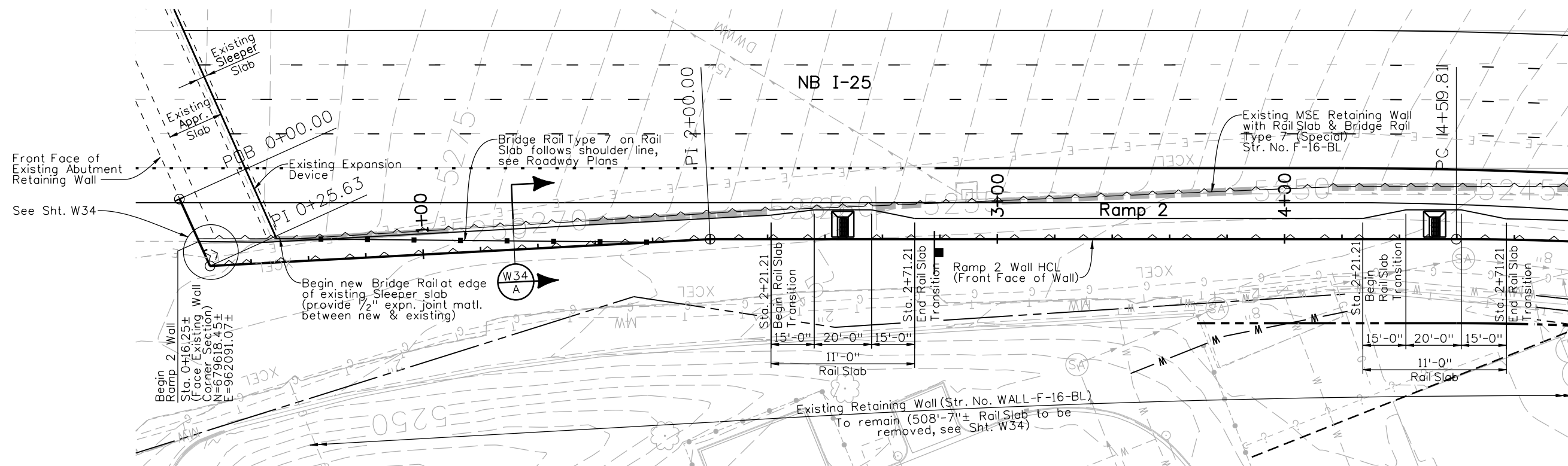
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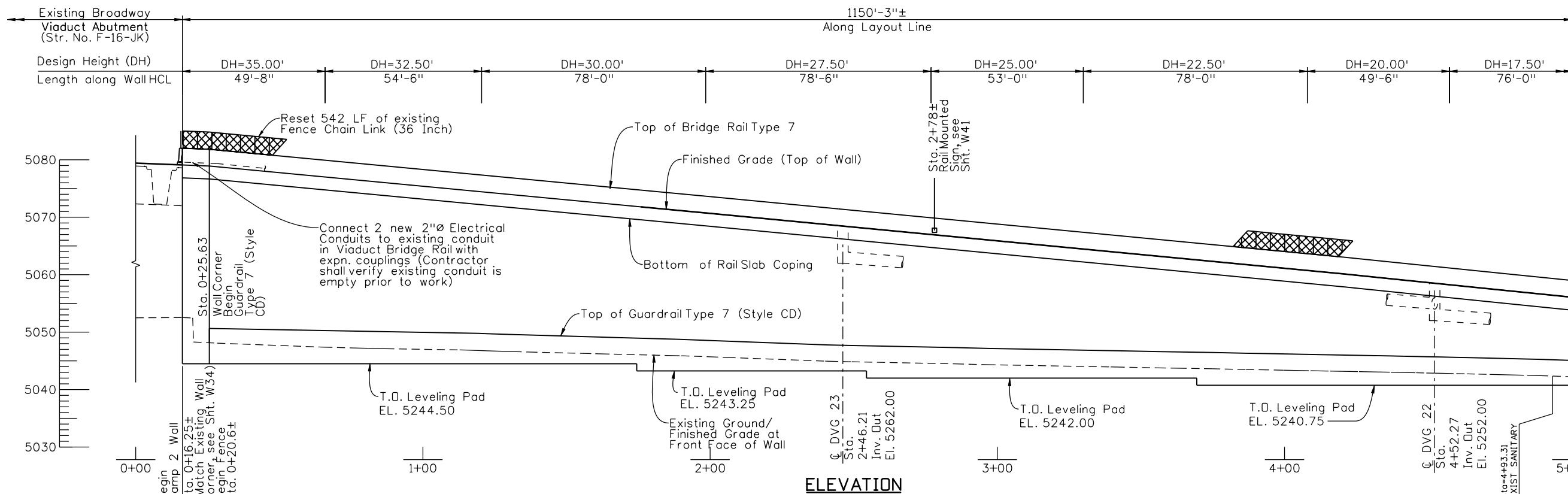
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	9/10	RAJ	9/10	Quantities By	CAJ
Checked By	10/10	WJM	10/10	Checked By	WJE



PLAN

- Notes:
1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
 2. For Top of Wall Elevation Table see Sht. W11 & W12.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.



ELEVATION

Print Date: 11/19/2010

File Name: 16311WALL_PH2_F-16-DS_Ramp2WallGPE.dgn

Horiz. Scale: 1:40 Vert. Scale: As Noted

Unit Information Unit Leader Initials

Sheet Revisions

Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation



2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6

As Constructed

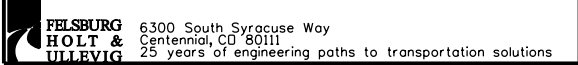
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I-25/SANTA FE INTERCHANGE
 RAMP 2 WALL
 GENERAL LAYOUT (1 OF 3)

Designer:	P. STEIN	Structure Numbers	WALL-F-16-DS
Detailer:	R. DILLON	Sheet Subset:	WALL
Subst Sheets:		W13 of 67	

Project No./Code

BR 0252-407
17783
Sheet Number 287 A



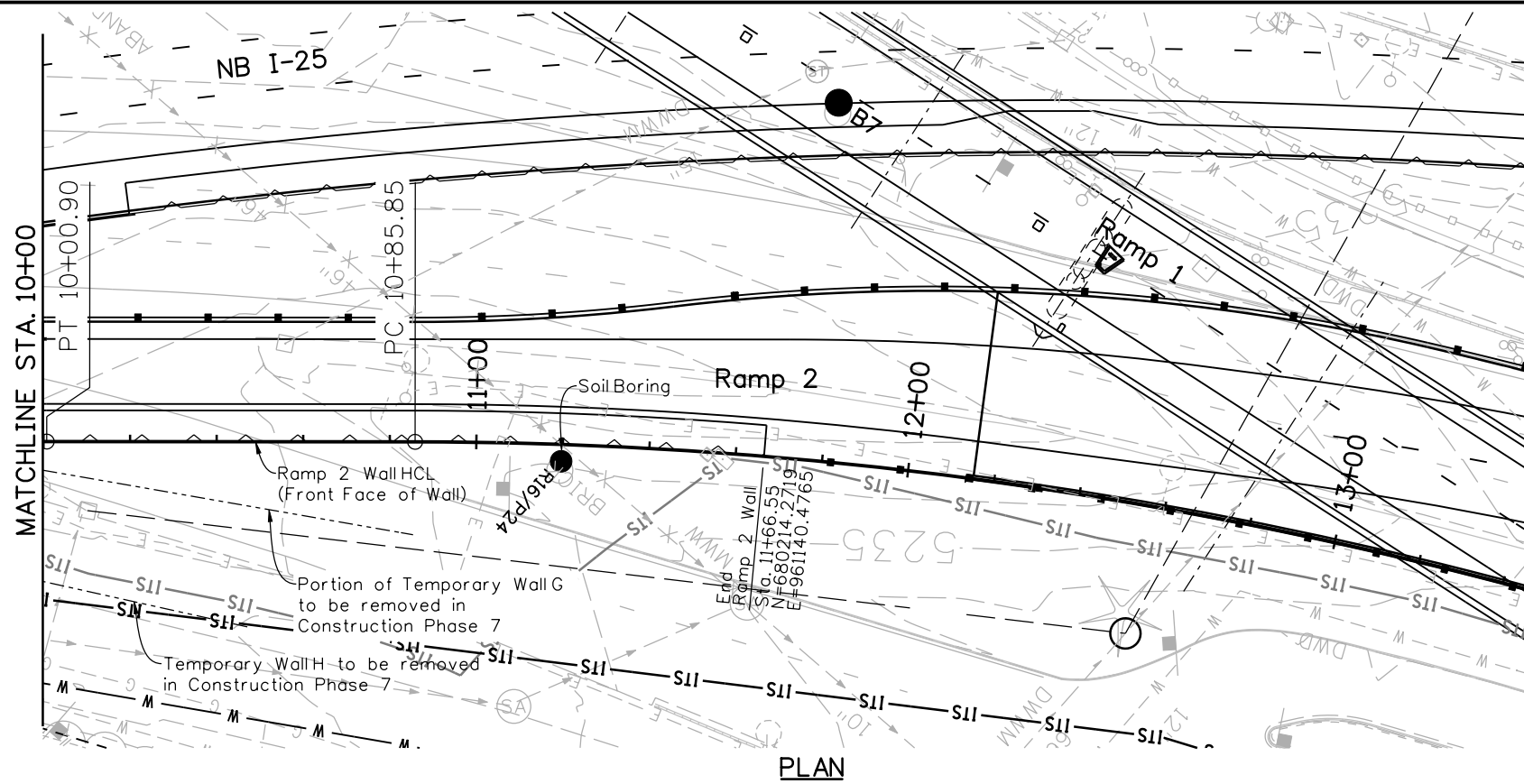
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 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

RLB

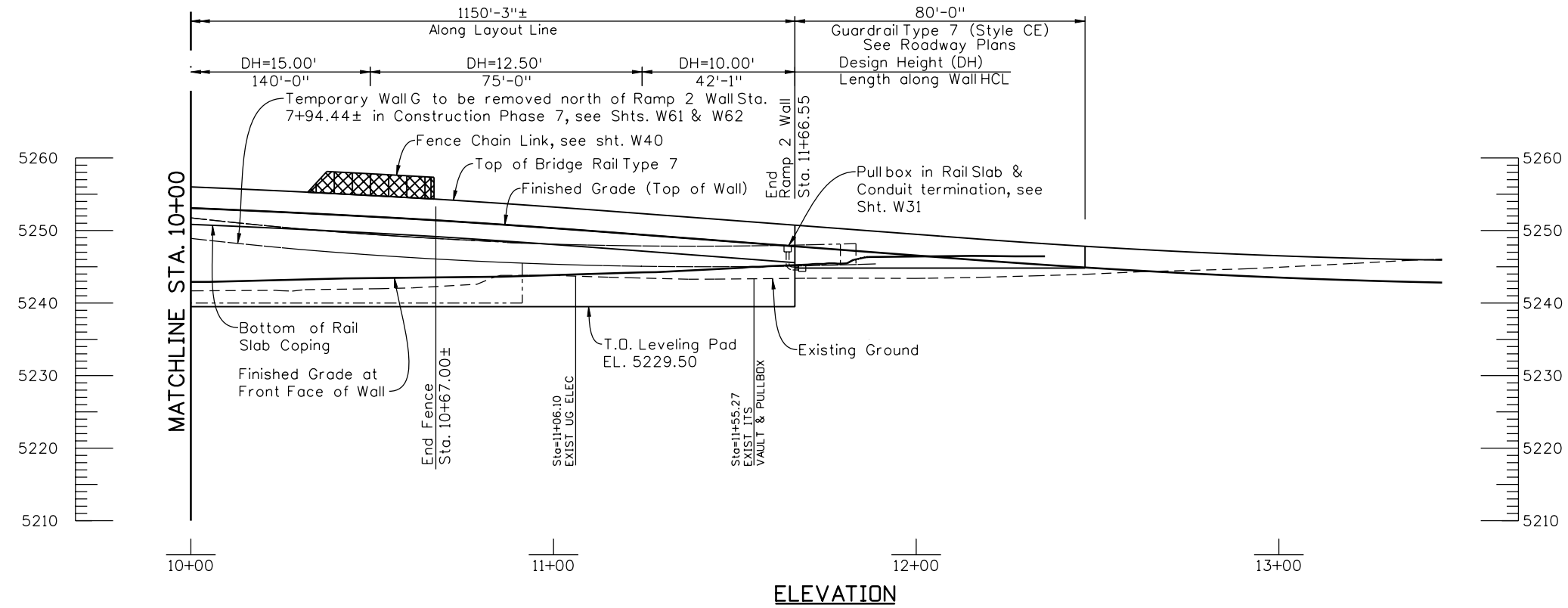
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PRS	9/10	RAD	9/10	CAJ	10/10
Checked By	WJM	Detailed By	WJM	Quantities By	MJE
Checked By		Checked By		Checked By	



- Notes:**
1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
 2. For Top of Wall Elevation Table see Sht. W12.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.



Print Date: 11/19/2010
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 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation

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 Denver, CO 80222
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Region 6 RLB

As Constructed
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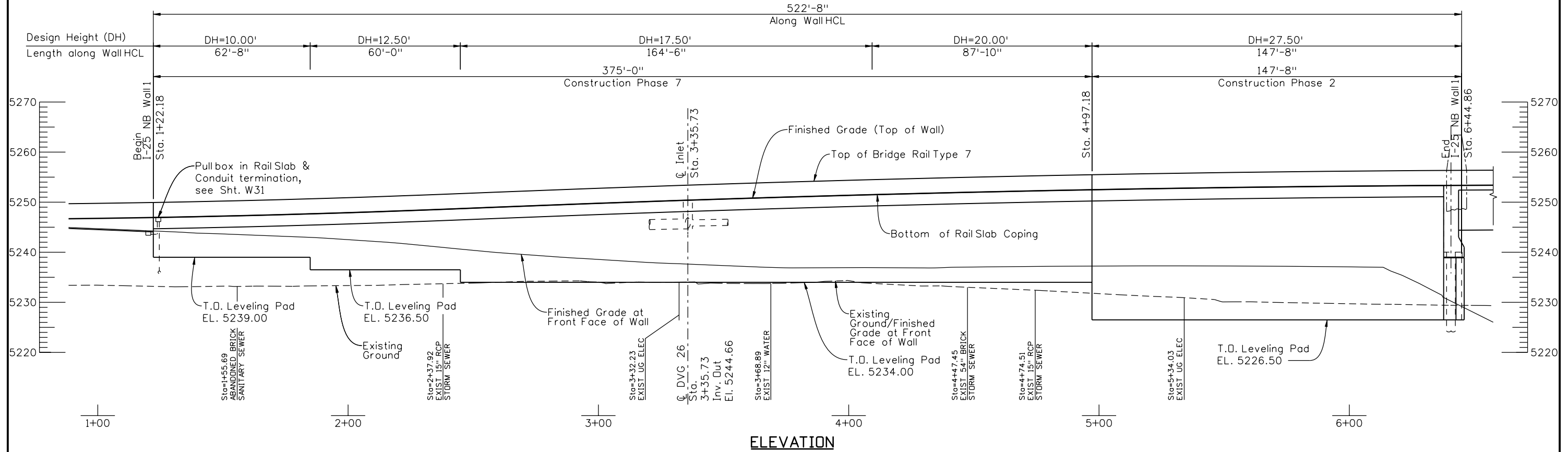
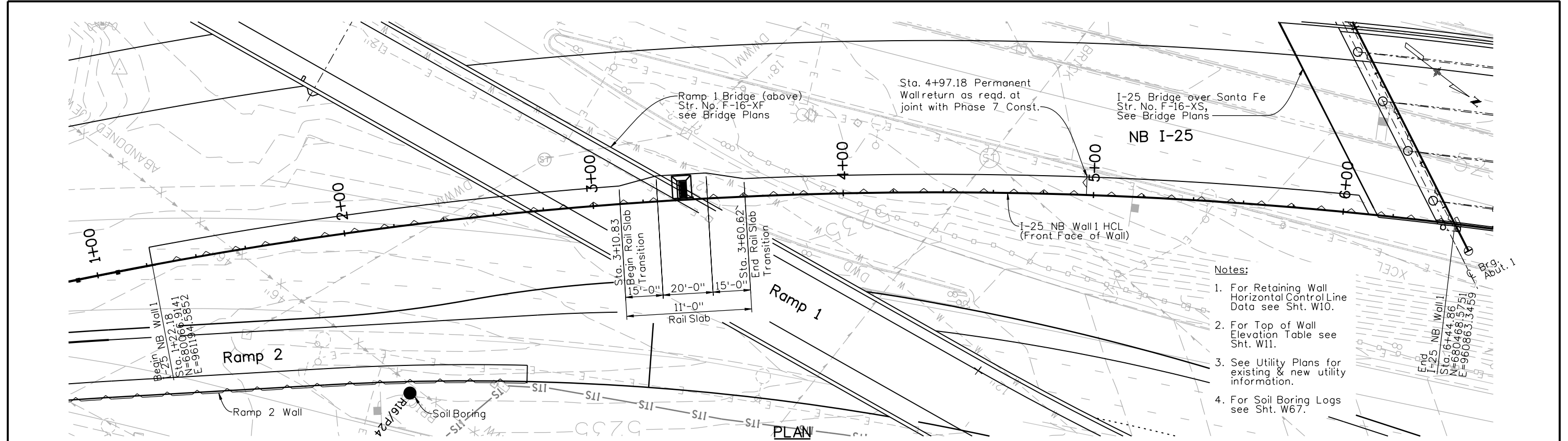
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Designer:	P. STEIN	Structure Numbers	WALL-F-16-DS
Detailer:	R. DILLON	Subset Sheets:	W15 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 289 A

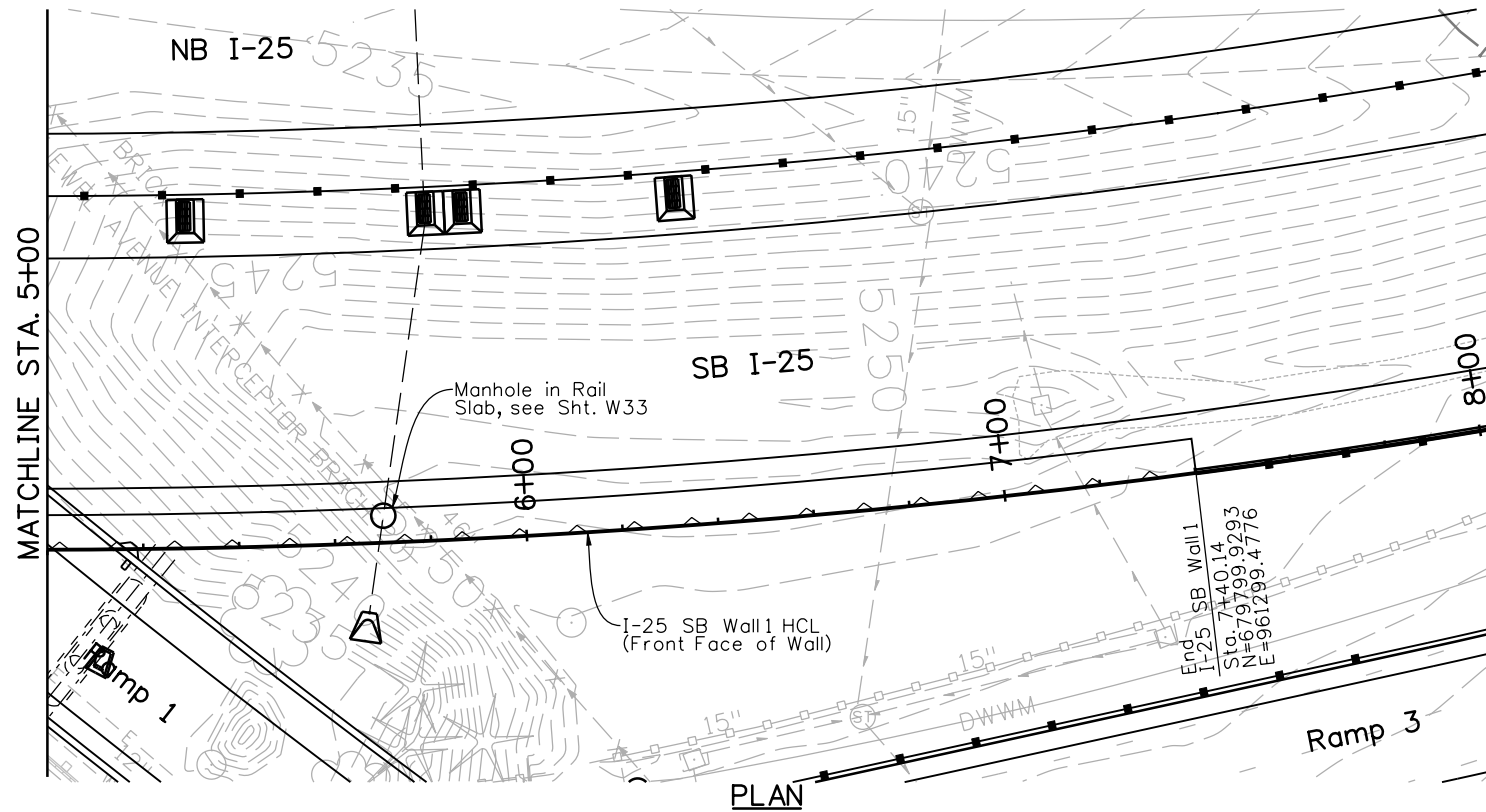
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Revision Dates	(Preliminary Stage Only)

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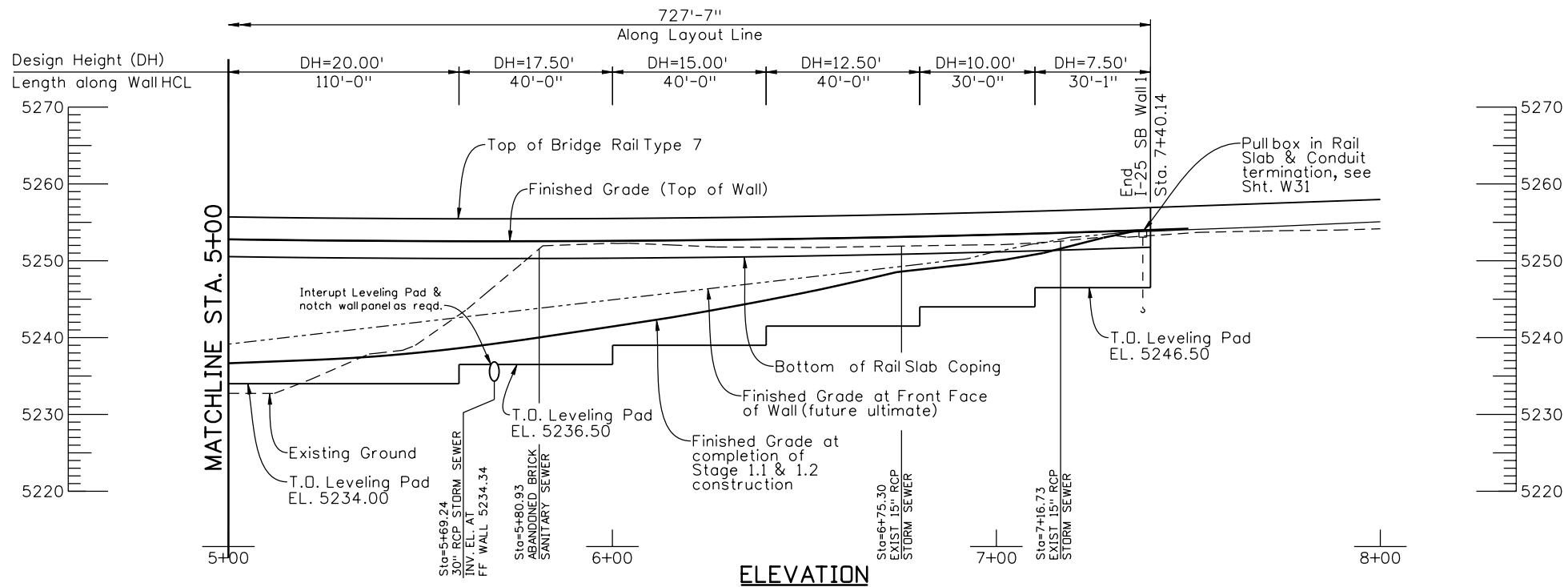


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Horiz. Scale: 1:40 Vert. Scale: As Noted		Region 6 RLB	Revised:	Designer: P. STEIN	Structure Numbers	17783
Unit Information Unit Leader Initials			Void:	Detailer: R. DILLON	Sheet Subset: WALL	
 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions						Sheet Number 290



Notes:

1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
2. For Top of Wall Elevation Table see Sht. W11.
3. See Utility Plans for existing & new utility information.
4. For Soil Boring Logs see Sht. W67.



Revision Dates		(Preliminary Stage Only)	
DATE	BY	DATE	BY

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_F-16-DW_I25-SBWall1GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

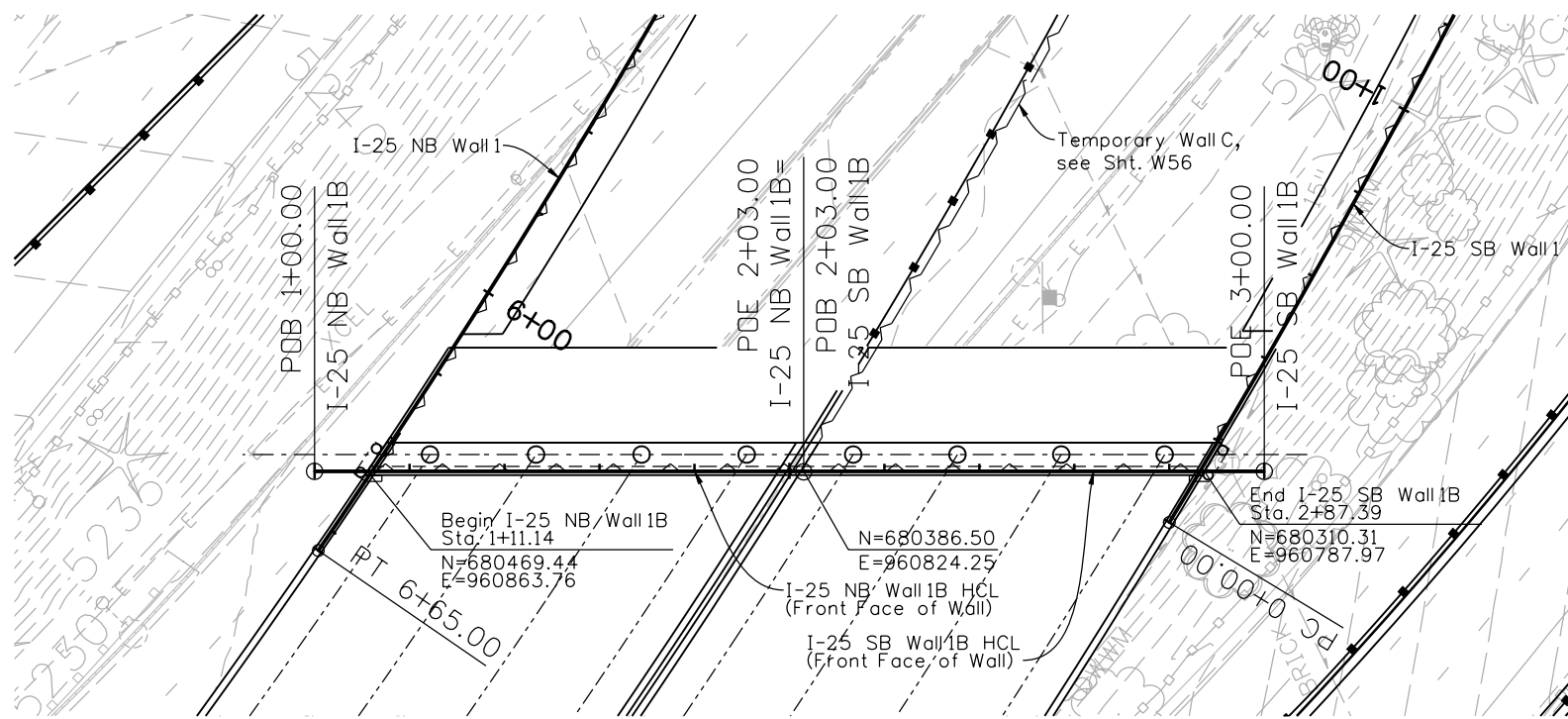
I-25/SANTA FE INTERCHANGE
 I-25 SB WALL 1
 GENERAL LAYOUT (2 OF 2)

Designer:	P. STEIN	Structure Numbers	WALL-F-16-DW
Detailer:	R. DILLON	Subset Sheets:	W18 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 292

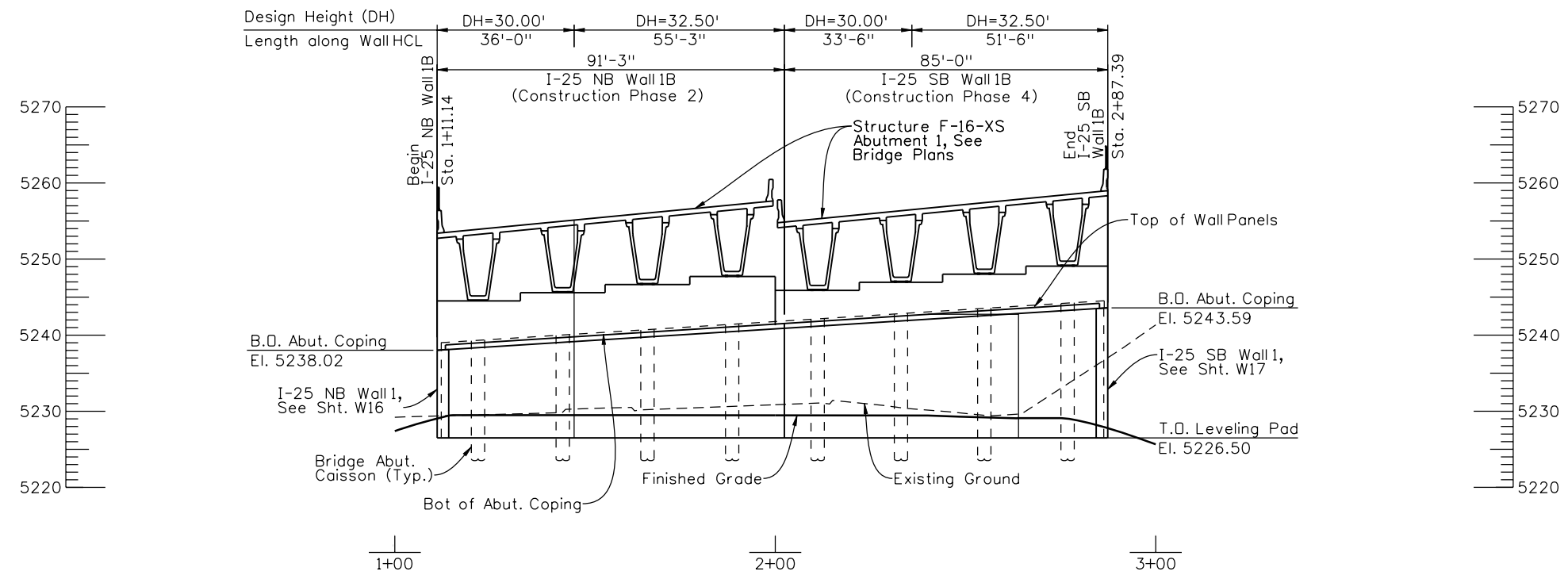
6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

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PLAN

- Notes:
1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
 2. See Utility Plans for existing & new utility information.
 3. For Soil Boring Logs see Sht. W67.

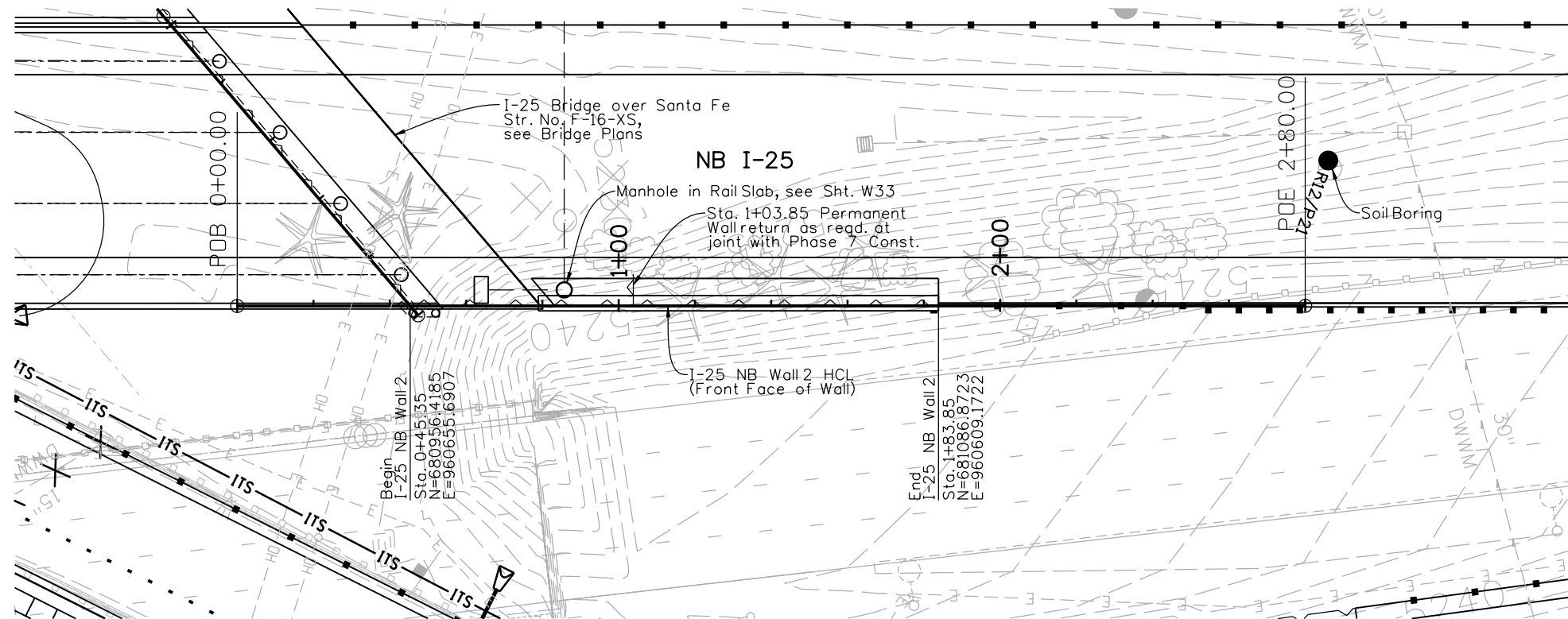


ELEVATION

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WJM	10/10	WJM	10/10	MJE	10/10

Print Date: 11/19/2010	Sheet Revisions			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE I-25 SB WALL 1B & I-25 NB WALL 1B		Project No./Code BR 0252-407 17783 Sheet Number 293 A
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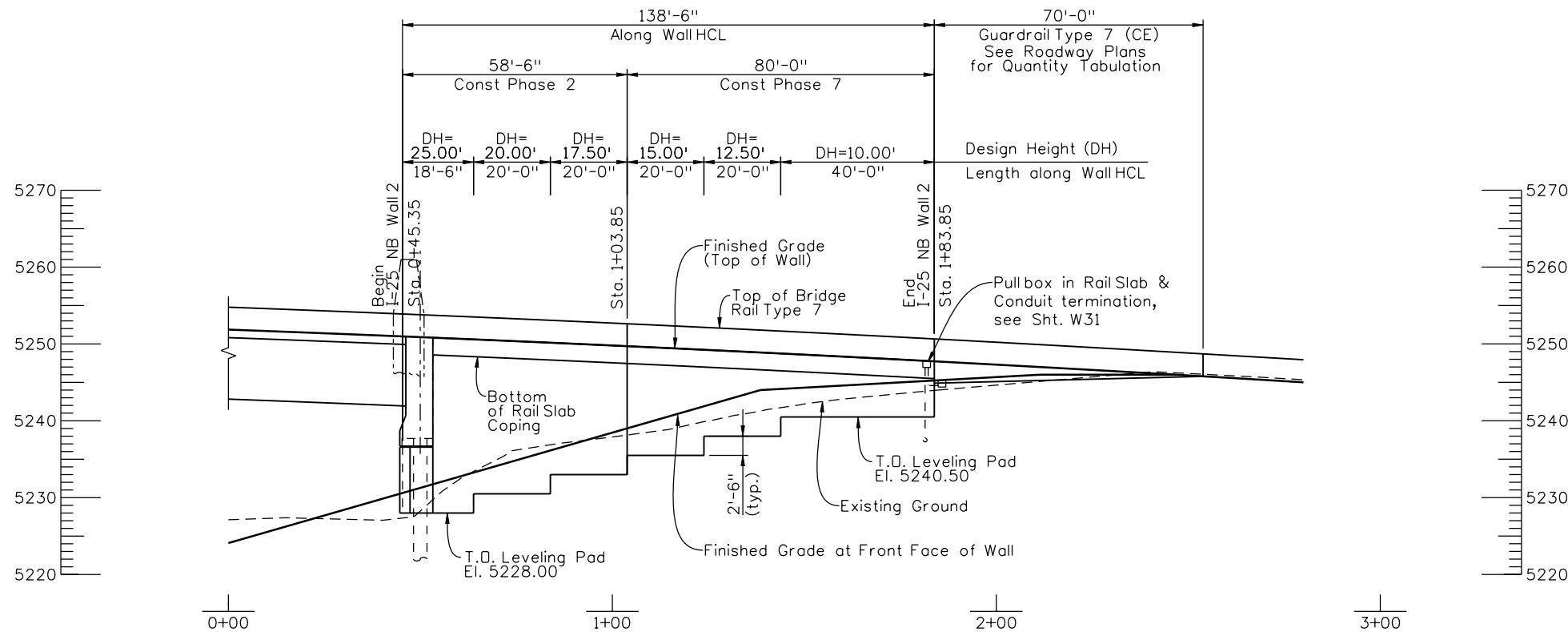
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PLAN

Notes:

1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
2. For Top of Wall Elevation Table see Sht. W11.
3. See Utility Plans for existing & new utility information.
4. For Soil Boring Logs see Sht. W67.



ELEVATION

Revision Dates		Preliminary Stage Only	
NO.	DATE	BY	REASON

Design		Detail		Quantities	
DESIGNED BY	DATE	INITIAL	DATE	INITIAL	DATE

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Colorado Department of Transportation

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 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

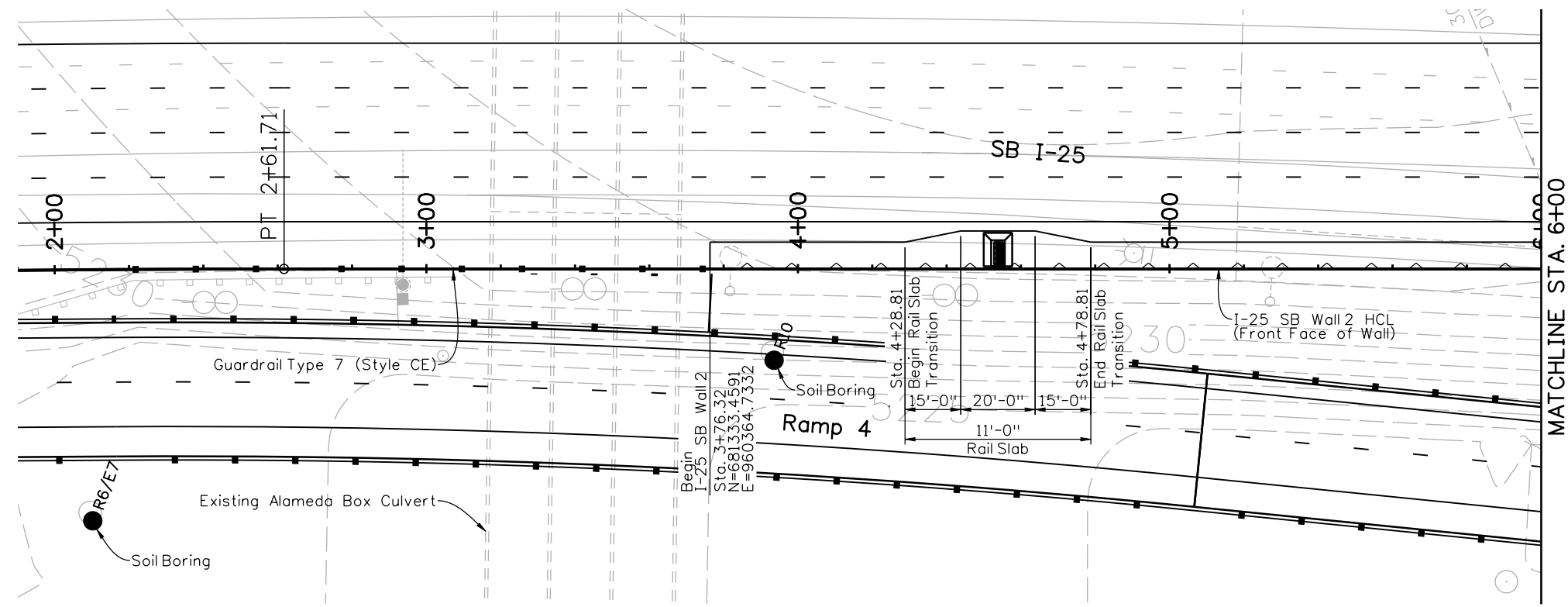
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I-25 NB WALL 2			
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Designer:	P. STEIN	Structure	WALL-F-16-DX
Detailer:	R. DILLON	Numbers	
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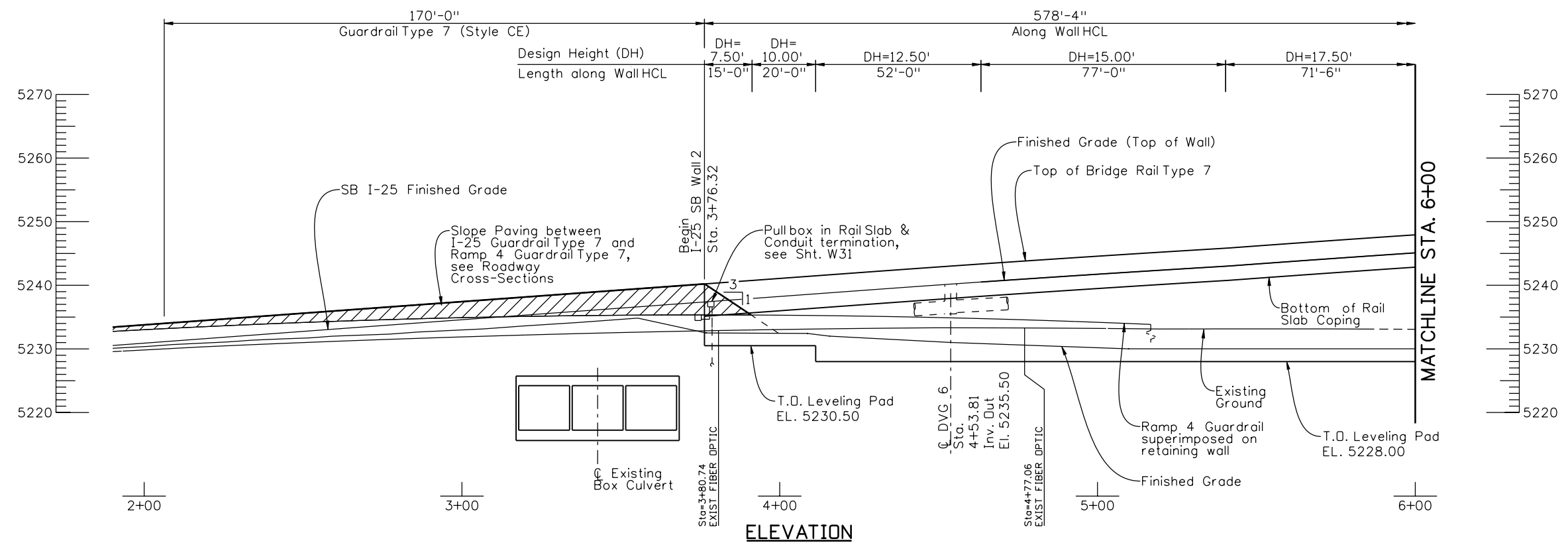
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17783
Sheet Number 294

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FELSBURG HOLT & ULLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions



PLAN



ELEVATION

- Notes:
1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
 2. For Top of Wall Elevation Table see Sht. W11.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.

Revision Dates		Quantities	
Design	Detail	Initial	Date
Designed By	Checked By	Checked By	Checked By
Checked By	Checked By	Checked By	Checked By

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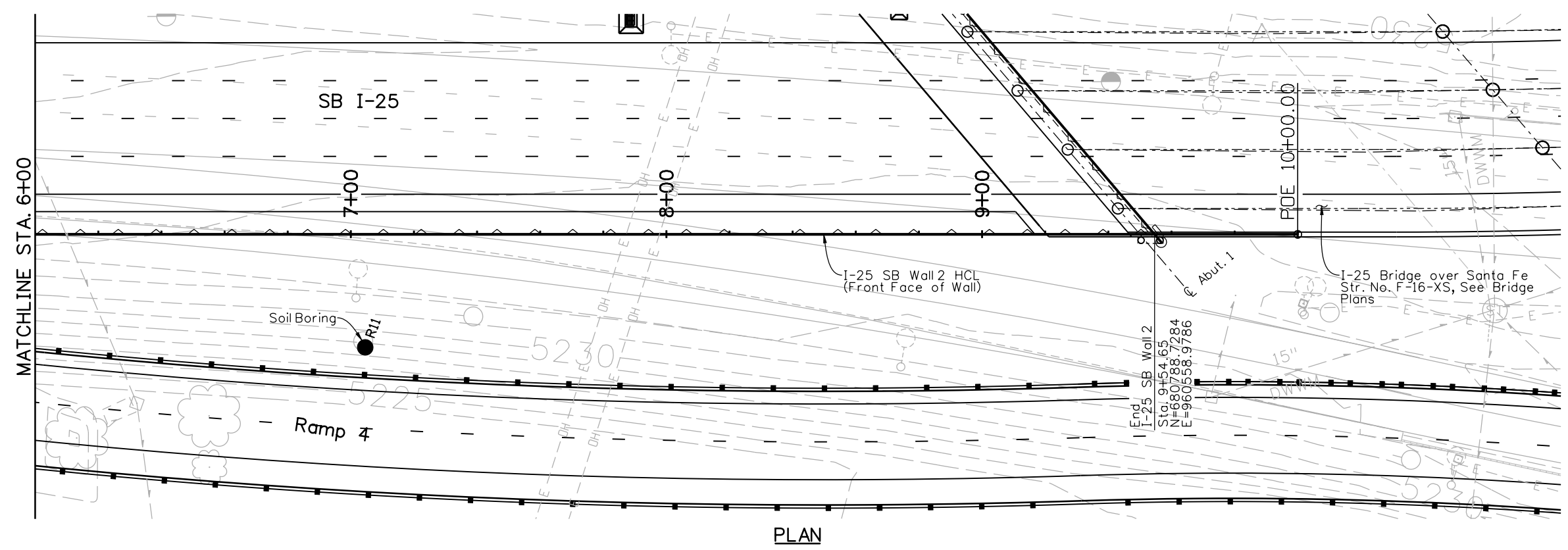
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Horiz. Scale: 1:40				2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114	No Revisions:	GENERAL LAYOUT (1 OF 2)		17783
Unit Information					Revised:	Designer: P. STEIN	Structure: WALL-F-16-DX	
				Region 6	Void:	Detailer: R. DILLON	Subset Sheets: W21 of 67	
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions				RLB	Sheet Subset: WALL			

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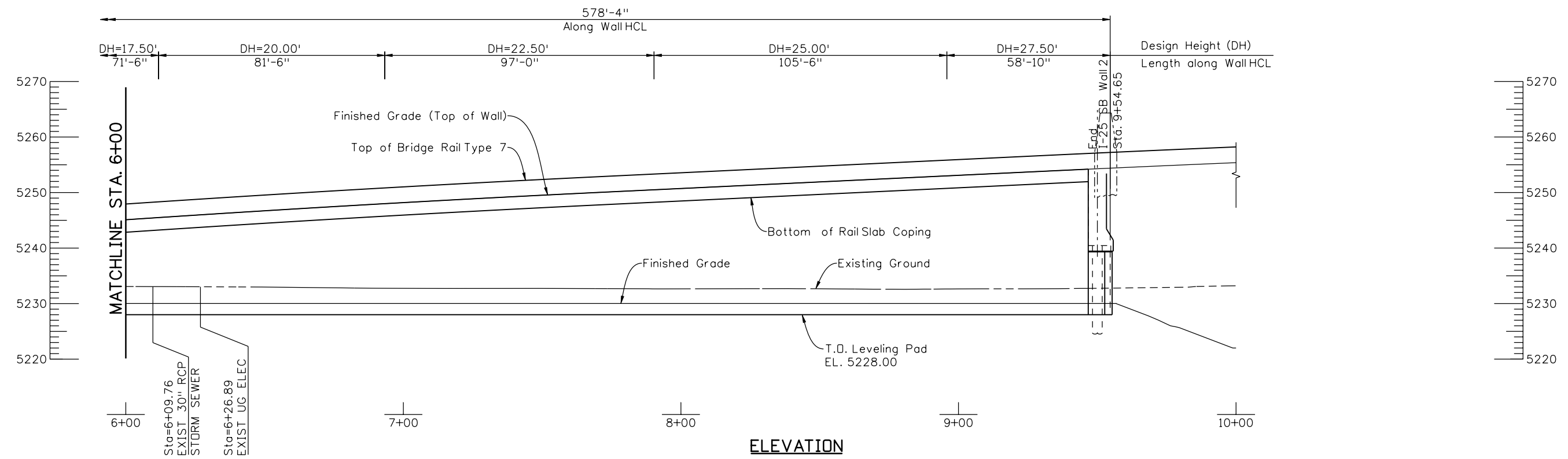
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Revision Dates		(Preliminary Stage Only)	
NO.	DATE	BY	REASON

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



- Notes:**
- For Retaining Wall Horizontal Control Line Data see Sht. W10.
 - For Top of Wall Elevation Table see Sht. W11.
 - See Utility Plans for existing & new utility information.
 - For Soil Boring Logs see Sht. W67.



Print Date: 10/22/2010
 File Name: 16311WALL_PH2_F-16-DX_I25-SBWall2GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

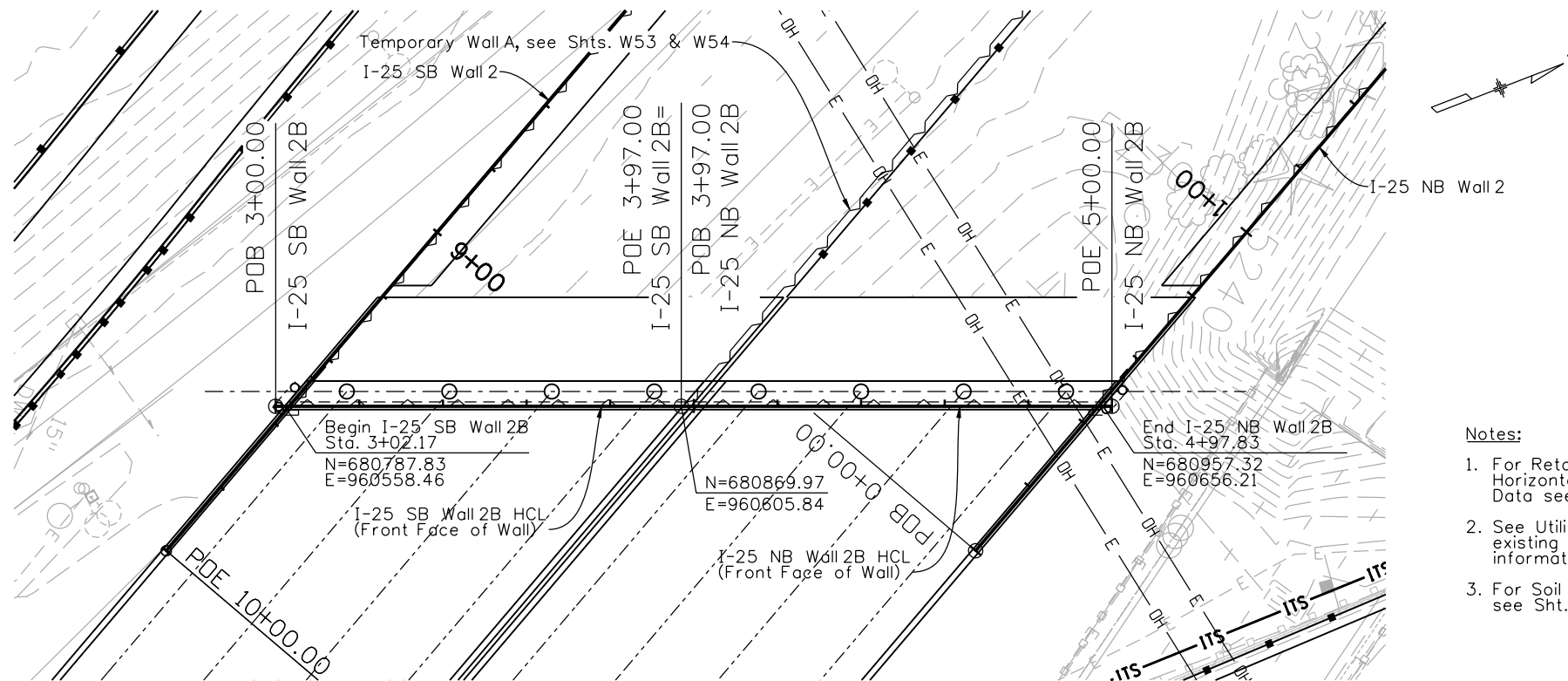
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
I-25 SB WALL 2
GENERAL LAYOUT (2 OF 2)
 Designer: P. STEIN Structure: WALL-F-16-DX
 Detailer: R. DILLON Numbers:
 Sheet Subset: WALL Subset Sheets: W22 of 67

Project No./Code
 BR 0252-407
 17783
Sheet Number 296

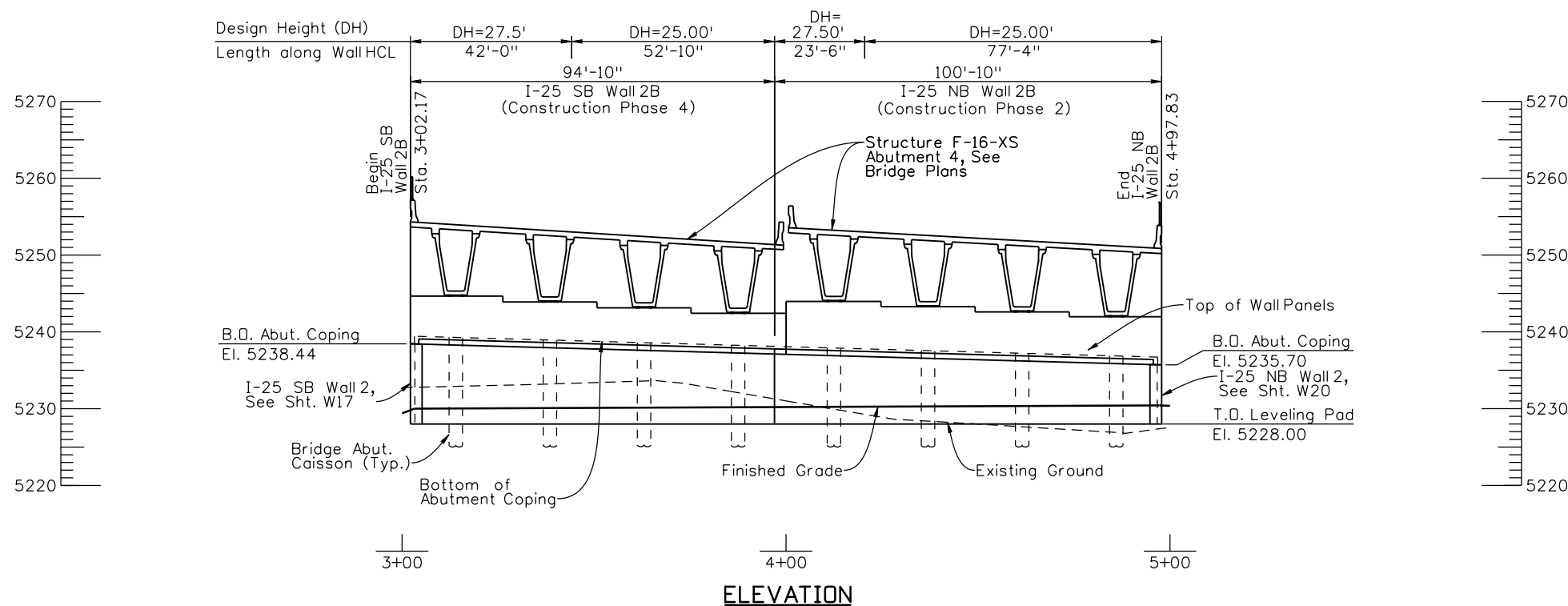
6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions



PLAN

Notes:

1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
2. See Utility Plans for existing & new utility information.
3. For Soil Boring Logs see Sht. W67.



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_F-16-DX-NB-SB-2B-GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

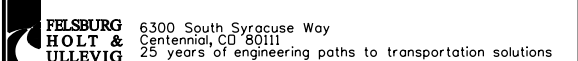
Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
 No Revisions:
 Revised:
 Void:

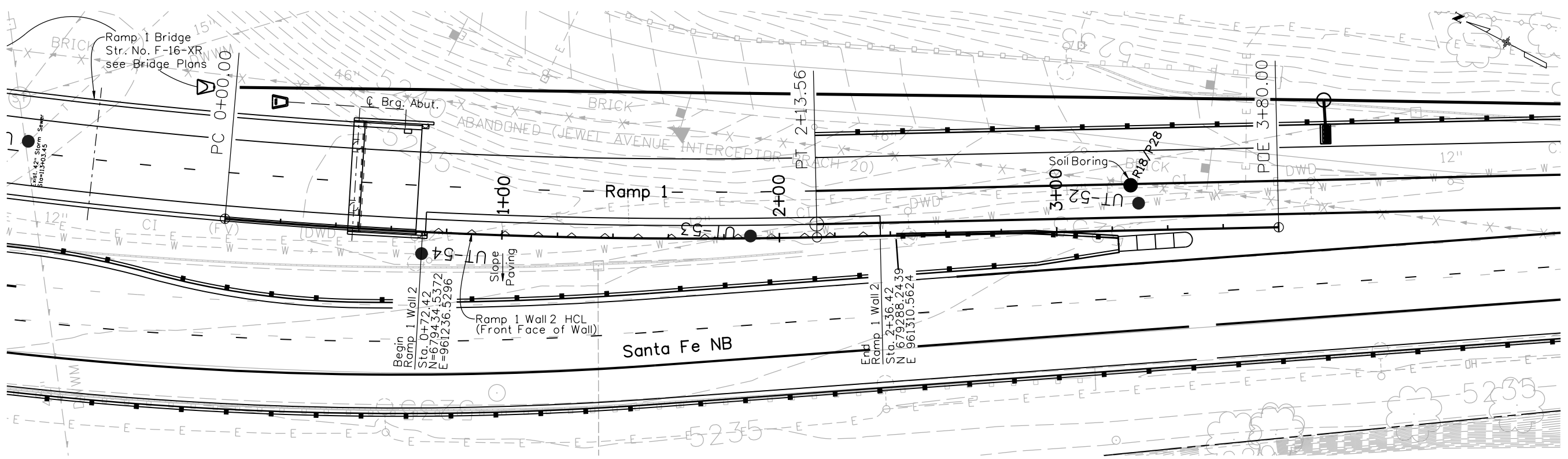
I-25/SANTA FE INTERCHANGE
 I-25 SB WALL 2B & I-25 NB WALL 2B
 GENERAL LAYOUT
 Designer: P. STEIN
 Detailer: R. DILLON
 Sheet Subset: WALL
 Structure Numbers: WALL-F-16-DX
 Subset Sheets: W23 of 67

Project No./Code
 BR 0252-407
 17783
 Sheet Number 297 A

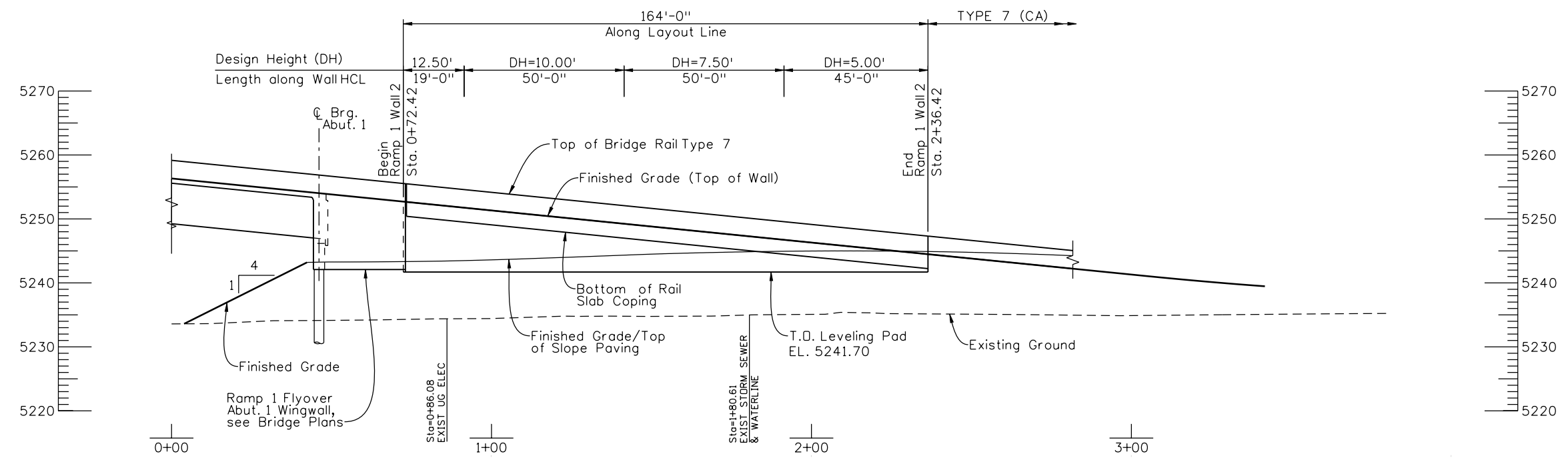


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Design		Detail		Quantities	
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PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Quantities By	Checked By	Checked By	
Checked By	Checked By	Checked By	Checked By	Checked By	



PLAN



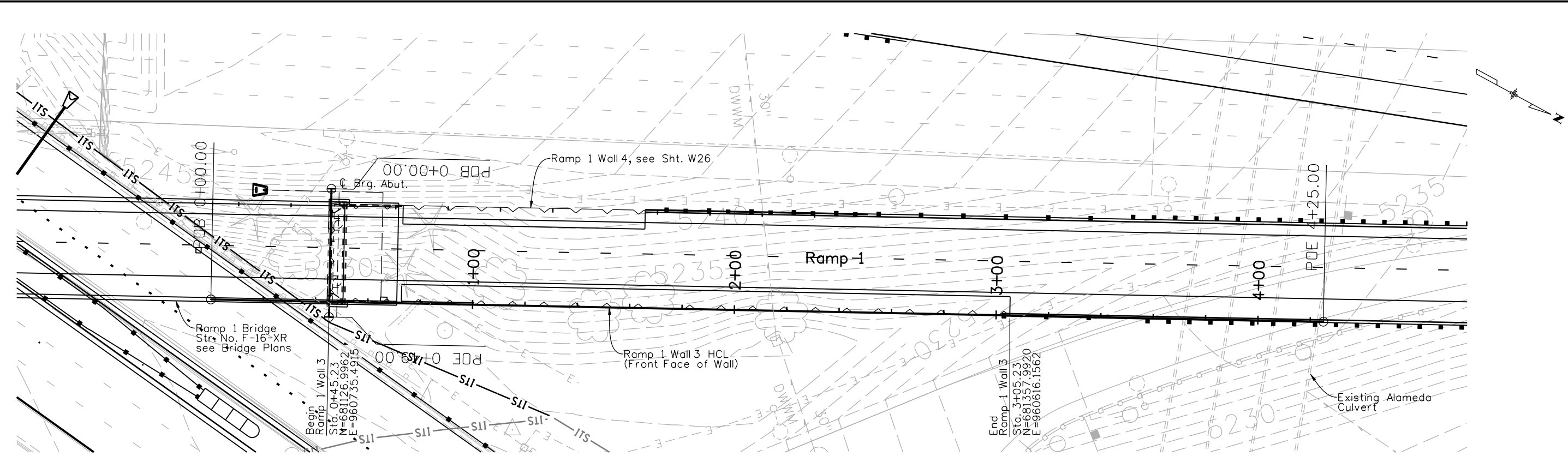
ELEVATION

- Notes:**
1. For Retaining Wall Horizontal Control Line Data see Sht. W10.
 2. For Top of Wall Elevation Table see Sht. W12.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.

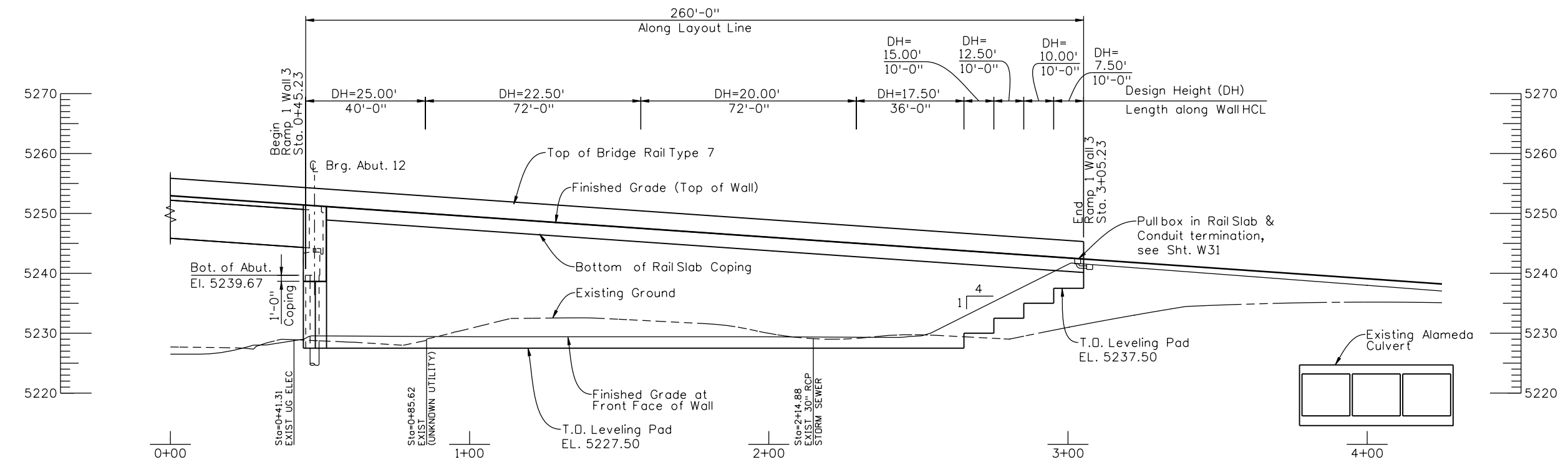
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File Name: 16311WALL_PH2_F-16-DV_Ramp1Wall2GPE.dgn		Date:	Comments	Init.	No Revisions:		RAMP 1 WALL 2		BR 0252-407		
Horiz. Scale: 1:40 Vert. Scale: As Noted		12/3/10	Misc. Revisions	PRS	Revised:		GENERAL LAYOUT		17783		
Unit Information Unit Leader Initials					Void:		Designer: P. STEIN		Structure		
FELSBERG HOLT & ULLEVIG					Sheet Subset: WALL		R. DILLON		Numbers		
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions					Subset Sheets: W24 of 67		WALL-F-16-DU		Sheet Number 298 A		
					Region 6		RLB				

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PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	WJM	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



PLAN



ELEVATION

- Notes:**
1. For Retaining Wall Horizontal Control Line Data see Sht. W9.
 2. For Top of Wall Elevation Table see Sht. W11.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_F-16-DV_Ramp1Wall3GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

Colorado Department of Transportation

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Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

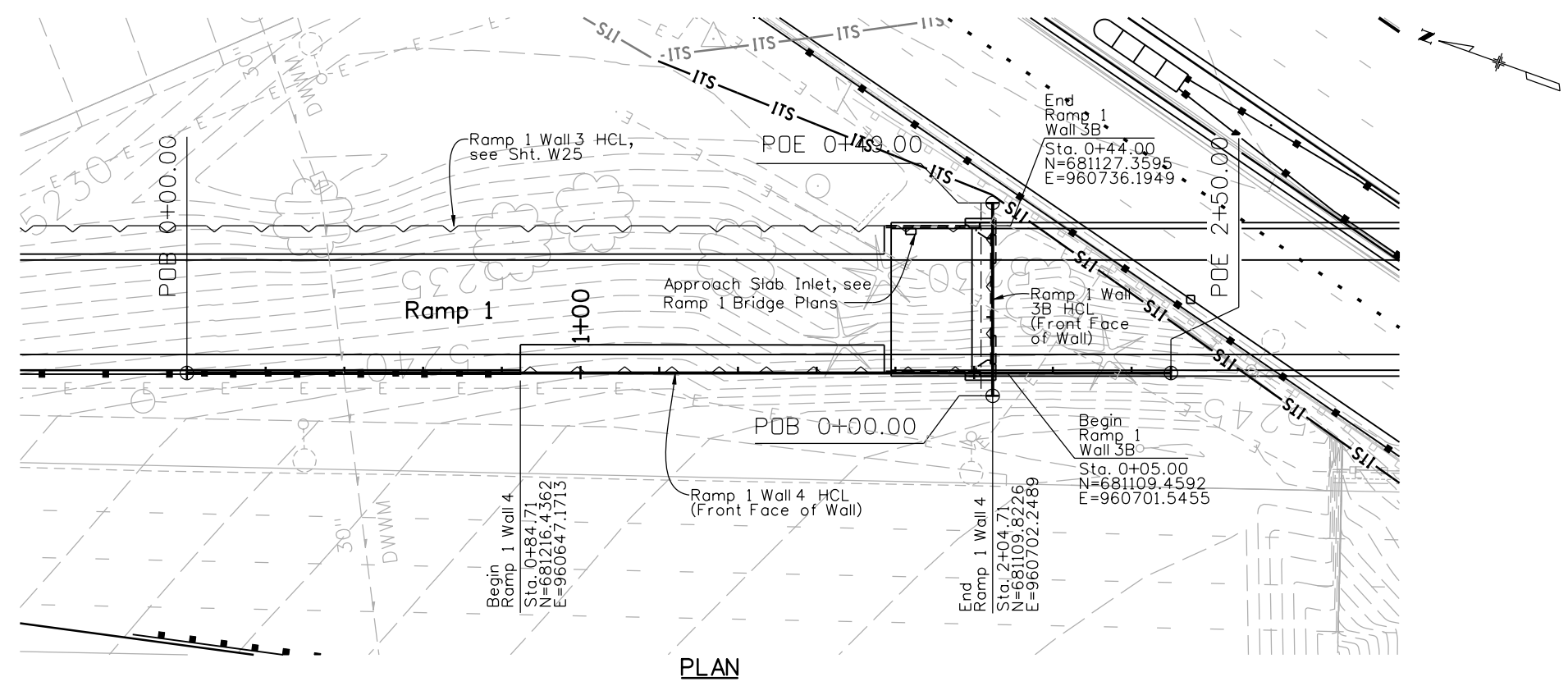
I-25/SANTA FE INTERCHANGE RAMP 1 WALL 3 GENERAL LAYOUT			
Designer:	P. STEIN	Structure Numbers	WALL-F-16-DV
Detailer:	R. DILLON	Subset Sheets:	W25 of 67
Sheet Subset:	WALL		

Project No./Code
 BR 0252-407
 17783
 Sheet Number **299 A**

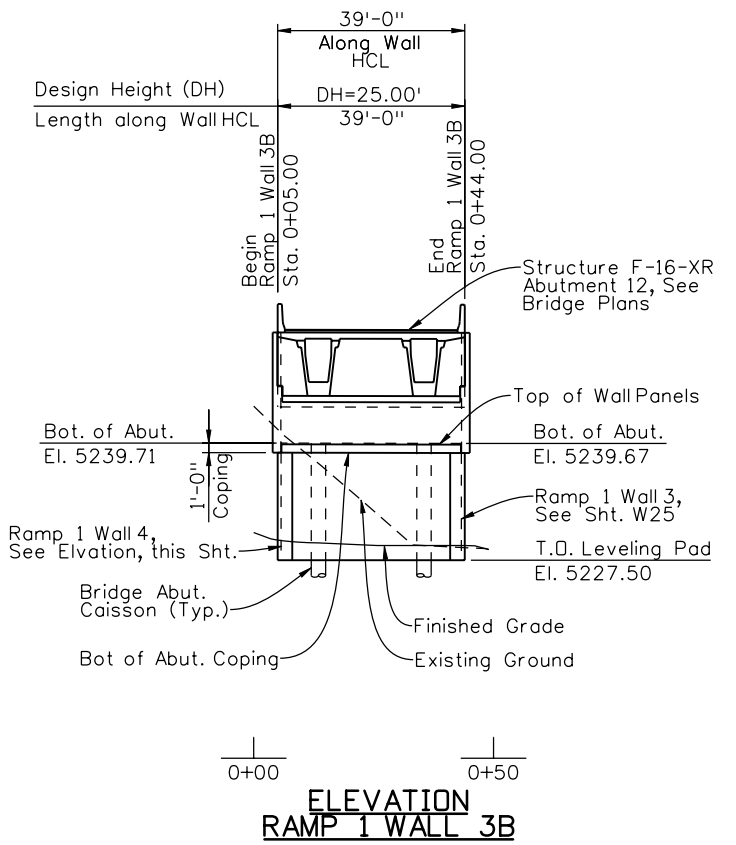
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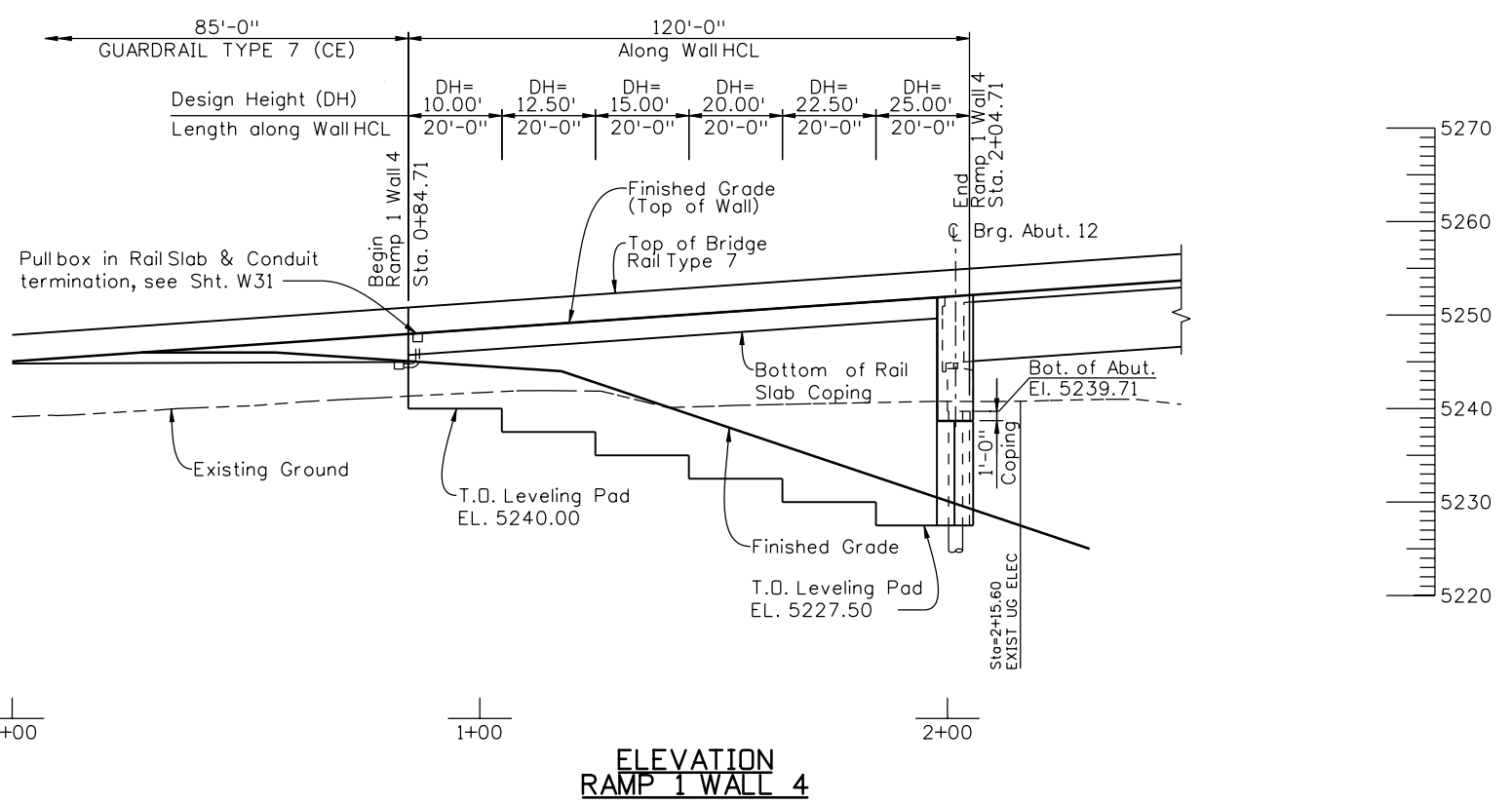
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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WJM	10/10	WJM	10/10	WJE	10/10
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By



- Notes:**
1. For Retaining Wall Horizontal Control Line Data see Sht. W9.
 2. For Ramp 1 Wall 4 Top of Wall Elevation Table see Sht. W11.
 3. See Utility Plans for existing & new utility information.
 4. For Soil Boring Logs see Sht. W67.



**ELEVATION
RAMP 1 WALL 3B**



**ELEVATION
RAMP 1 WALL 4**

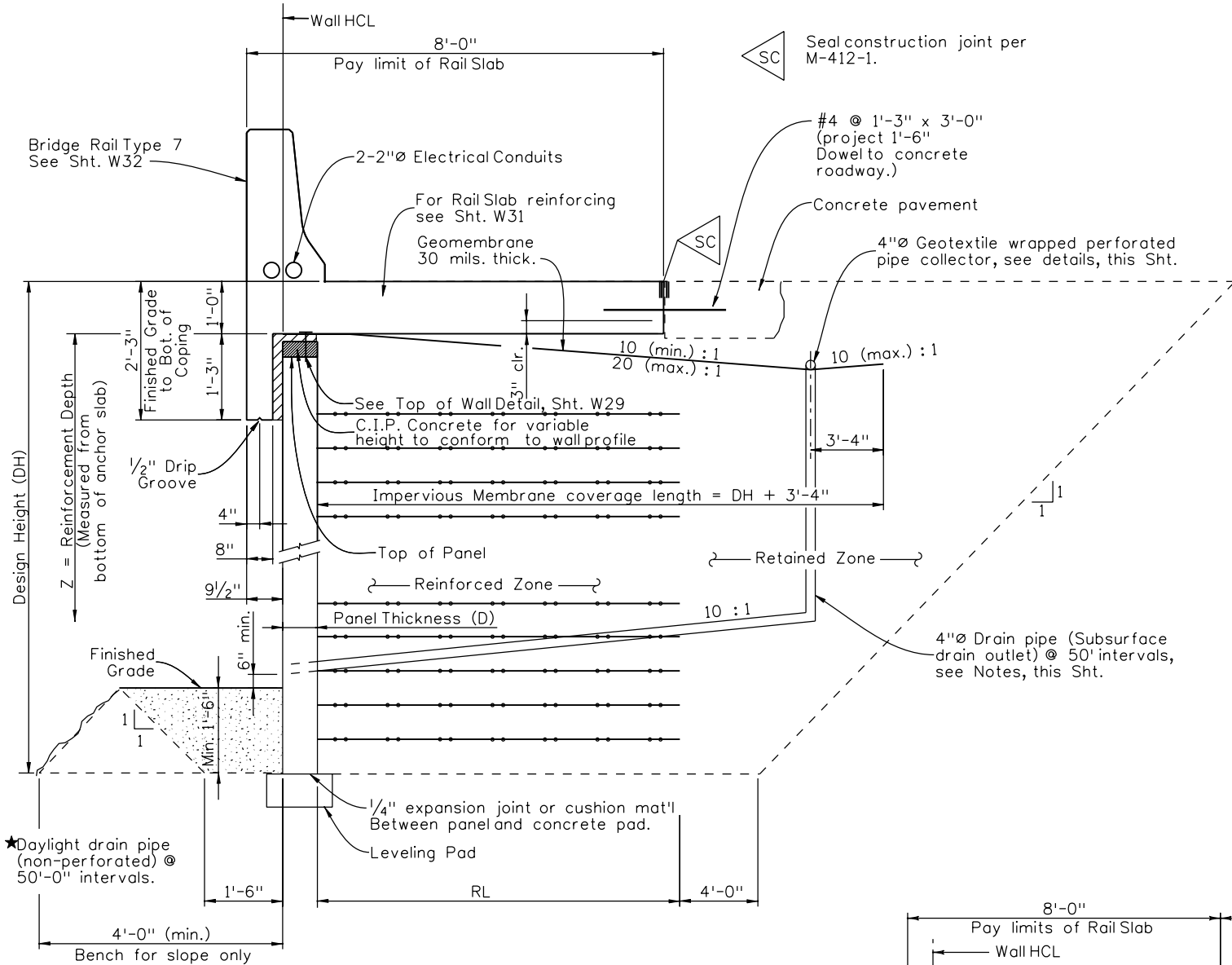
Print Date: 11/19/2010	Sheet Revisions		Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311WALL_PH2_F-16-DV_Ramp1Wall4GPE.dgn	Date: 12/3/10	Comments: Misc. Revisions		Init.: PRS	No Revisions:	RAMP 1 WALL 3B & WALL 4	
Horiz. Scale: 1:40	Vert. Scale: As Noted	Unit Information		Revised:	Designer: P. STEIN	Structure Numbers: WALL-F-16-DV	17783
Unit Leader Initials		Unit Information		Void:	Detailer: R. DILLON	Subset Sheets: W26 of 67	Sheet Number 300 A

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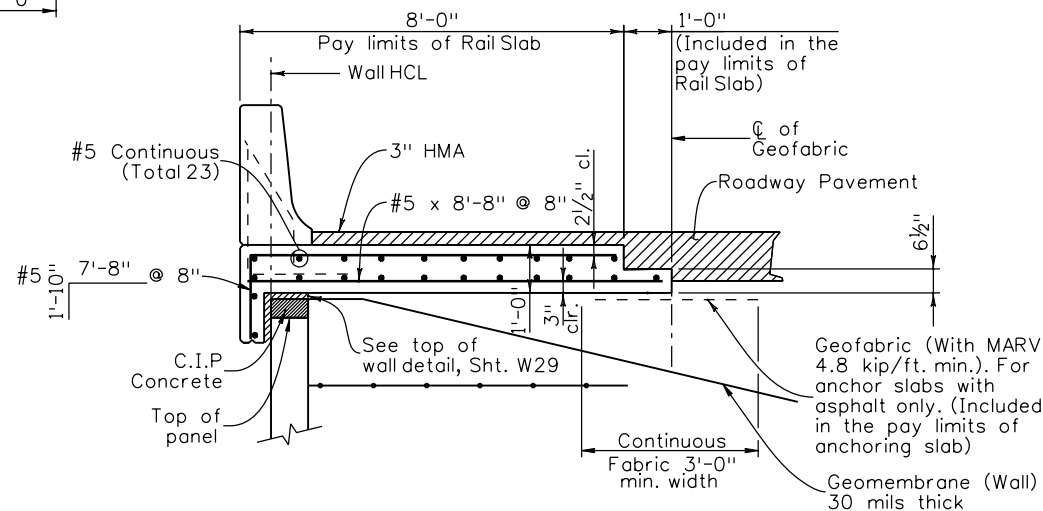
Revision Dates (Preliminary Stage Only)	
7/10	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY
Designed By	Checked By	Designed By	Checked By	Quantities By	Checked By
XXX	XXX	XXX	XXX	XXX	XXX



TYPICAL SECTION

I-25 SB Wall 1, I-25 SB Wall 2
 I-25 NB Wall 1, I-25 NB Wall 2
 Ramp 2 Wall 3, Ramp 1 Wall 4



RAIL SLAB DETAIL WITH ASPHALT ROADWAY

Ramp 1 Wall 2 (See Sht. W31 for additional details)

ABBREVIATIONS

DH = Design Height (ft.)
 RL = Reinforcement Length (ft.)

NOTES:

The contractor shall be responsible for the design and construction of the metal Reinforced MSE Walls based upon these drawings and revision of project Specification Section 206 & 504 - Concrete Panel facing MSE Wall. The wall design shall be designed for the required stability and serviceability as specified in the Project Special Provisions.

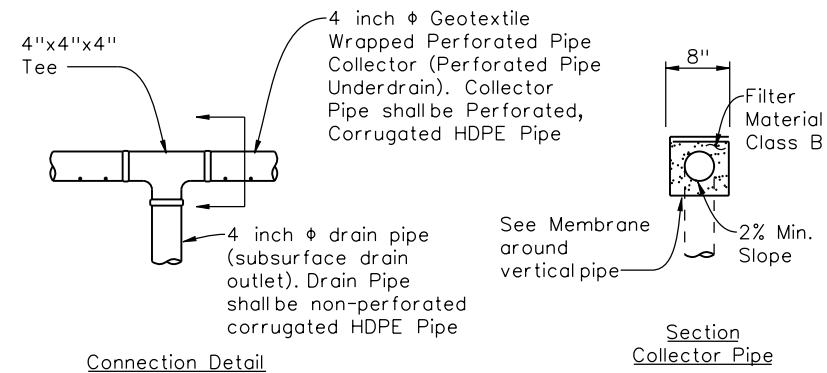
LTDS based on dead load MSE Wall, live load surcharge and dead load rail slab system with rail impact (if applicable).

Subsurface Drain Outlets, 4" Geotextile wrapped Pipe Collector and Impervious Membrane shall not be paid for separately, but shall be included in the cost of Item 206, Mechanical Reinforcement of soil.

Horizontal location of the Subsurface Drain outlets shall be shown on the retaining wall shop drawings. Outlets shall be centered in wall panels horizontally.

The design for the MSE Walls shall incorporate all vanegate inlet locations. See wall general layouts, drainage plans, and Sheet W33.

See sheet W43 for Structure Excavation and Backfill Limits.



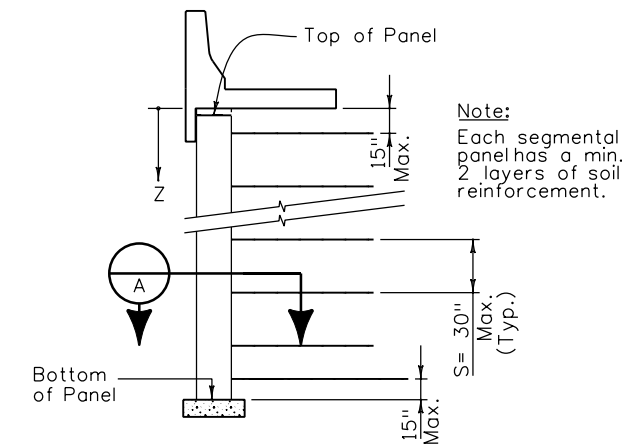
Note:
 4" Diameter Geotextile Wrapped Pipe Collector and Subsurface drain outlet shall be included in the cost of Item 206 - Mechanical Reinforcement of Soil.

COLLECTOR PIPE/RAIN PIPE DETAIL

Print Date: 10/22/2010	Sheet Revisions			Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE		Project No./Code
File Name: 16311WALL_PH2_WallDetails01.dgn	Date:	Comments	Init.			No Revisions:	MSE WALL DETAILS (1 OF 4)	
Horiz. Scale: 1:1	Unit Information			2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	Revised:	Designer: P. STEIN	Structure Numbers	17783
Unit Leader Initials	Unit Leader Initials				Void:	Detailer: M. EBERLY	Sheet Subset: WALL	Subset Sheets: W27 of 67
6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions								

DH	* RL	BP	LTDS (lb/ft)														
			Z = 1.25	3.75	6.25	8.75	11.25	13.75	16.25	18.75	21.25	23.75	26.25	28.75	31.25	33.75	
5.00	* 8.00	1070	1346	1190													
7.50	* 8.00	1411	1227	1314	1408												
10.00	* 8.00	1849	1179	1317	1462	1626											
12.50	* 8.75	2320	1179	1317	1462	1626	1845										
15.00	* 10.50	2691	1179	1317	1462	1626	1845	2043									
17.50	12.25	3064	1179	1317	1462	1626	1845	2043	2220								
20.00	14.00	3440	1179	1317	1462	1626	1845	2043	2220	2373							
22.50	15.75	3818	1179	1317	1462	1626	1845	2043	2220	2373	2568						
25.00	17.50	4197	1179	1317	1462	1626	1845	2043	2220	2373	2568	2825					
27.50	19.25	4577	1179	1317	1462	1626	1845	2043	2220	2373	2568	2825	3083				
30.00	21.00	4958	1179	1317	1462	1626	1845	2043	2220	2373	2568	2825	3083	3343			
32.50	22.75	5340	1179	1317	1462	1626	1845	2043	2220	2373	2568	2825	3083	3343	3602		
35.00	24.50	5722	1179	1317	1462	1626	1845	2043	2220	2373	2568	2825	3083	3343	3602	3863	

(FOR INFORMATION ONLY)



SEGMENTAL PANEL REINFORCEMENT PATTERN
(Segmental Panel not shown for clarity)

ABBREVIATIONS

- DH = Design Height (ft.)
- *RL = Reinforcement Length (ft.)
- BP = Bearing Pressure (psf)
- LTDS = Long Term Design Strength of Ribbed Steel Reinforcing Strips per Linear Foot of Wall Length (lbs. per foot). Value based on 2'-6" On-Center Reinforcing Strip spacing, vertically.

NOTES:

The contractor shall be responsible for the design and construction of the metal Reinforced MSE Walls based upon these drawings and revision of project Specification Section 504 - Concrete Panel facing MSE Wall. The contractor shall design both the Temporary walls and the future Permanent walls in accordance with the Project Special Provisions. The wall design for both conditions shall be designed for the required stability and serviceability as specified in the Project Special Provisions.

LTDS based on dead load MSE Wall, live load surcharge and dead load rail slab system with rail impact (if applicable).

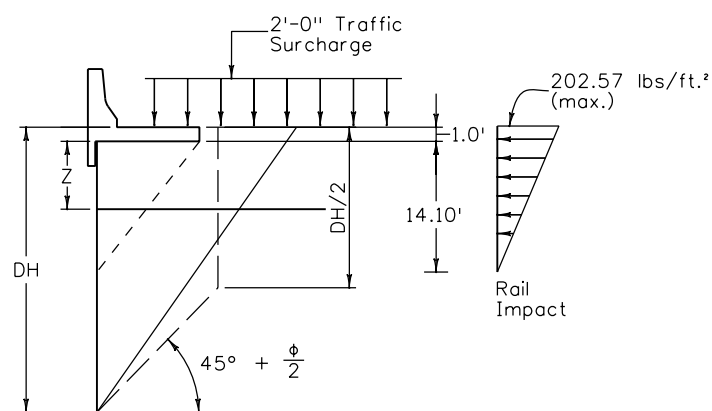
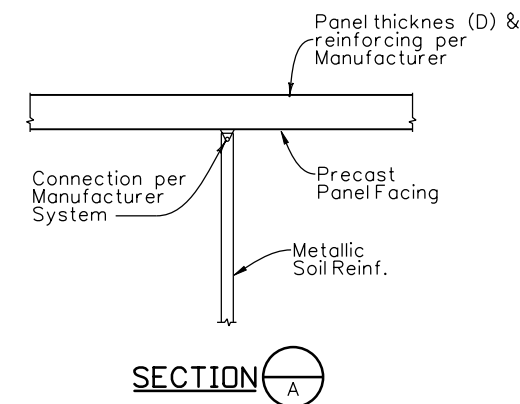
*Reinforcement Length, RL, in the chart is the minimum calculated length required to provide external wall stability. For walls with DH = 5.00 through 15.00 having a rail slab with vehicle impact, the plan quantities are based on a minimum RL = 12.0', to account for typical preferred reinforcement lengths from the wall suppliers. For all walls without a rail slab, quantities have been based on the chart values for RL.

Subsurface Drain Outlets, 4"Ø Geotextile wrapped Pipe Collector and Impervious Membrane shall not be paid for separately, but shall be included in the cost of Item 206, Mechanical Reinforcement of Soil.

Horizontal location of the Subsurface Drain outlets shall be shown on the retaining wall shop drawings. Outlets shall be centered in wall panels horizontally.

See sheet W42 & W43 for additional information on Structure Excavation and Backfill Limits.

The design for the MSE Walls shall incorporate all manhole inlets, manholes and storm pipe locations. See wall general layouts, drainage plans, and Sheet W33 for more information.



APPLICATION DIAGRAM

The 10 kip vehicular Horizontal Impact Load is applied as per the loading diagram. The rail impact load is not included in the calculation of the Bearing Pressure, BP.

Revision Dates	(Preliminary Stage Only)
7/10	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY
Designed By	Detailed By	Checked By	Checked By	Quantities By	Checked By
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_WallDetails02.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
MSE WALL DETAILS (2 OF 4)

Designer: P. STEIN Structure MULTIPLE
 Detailer: M. EBERLY Numbers
 Sheet Subset: WALL Subset Sheets: W28 of 67

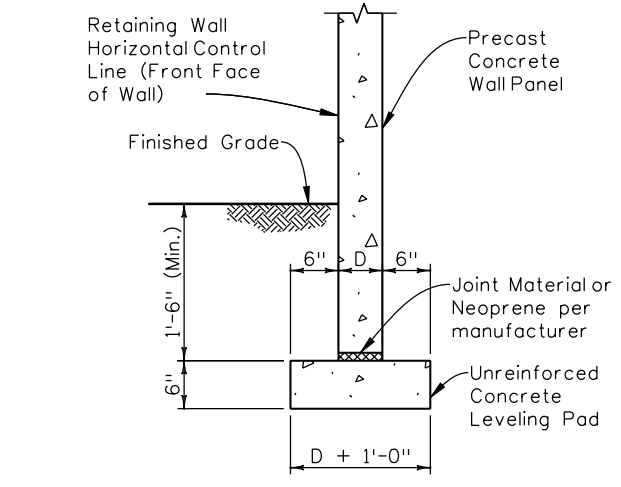
Project No./Code
BR 0252-407
17783
Sheet Number 302

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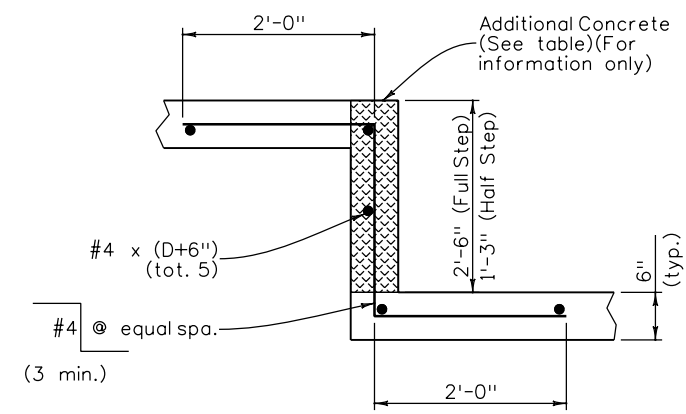
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Revision Dates	(Preliminary Stage Only)
7/10	

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	By	Checked By	MM/YY	MM/YY	MM/YY	MM/YY
Designed By	XXX	XXX	MM/YY	MM/YY	MM/YY	MM/YY
Checked By	XXX	XXX	MM/YY	MM/YY	MM/YY	MM/YY



LEVELING PAD DETAIL
D = Panel Thickness

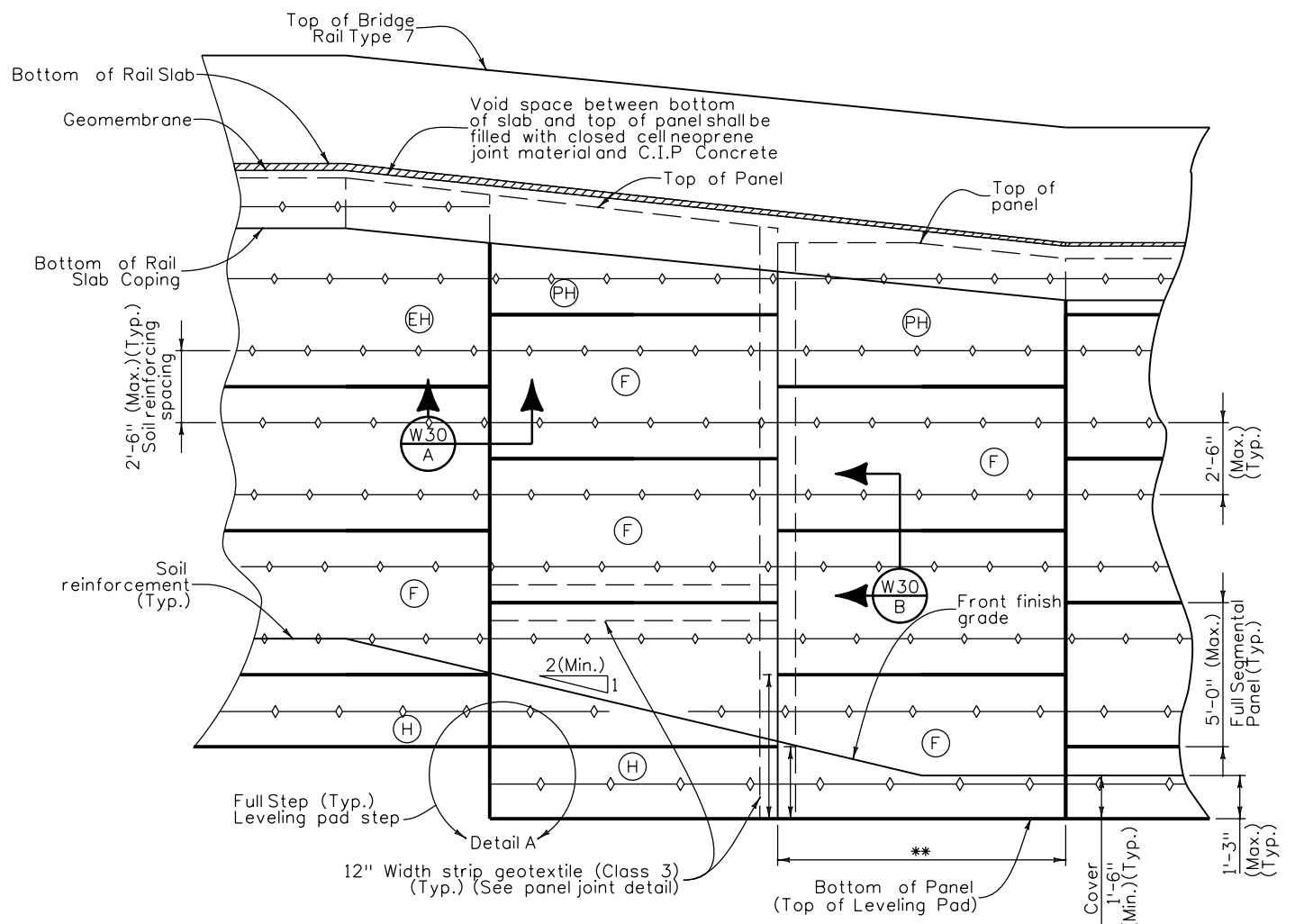


DETAIL A

LEVELING PAD AND STEP QUANTITIES
(For Information only)

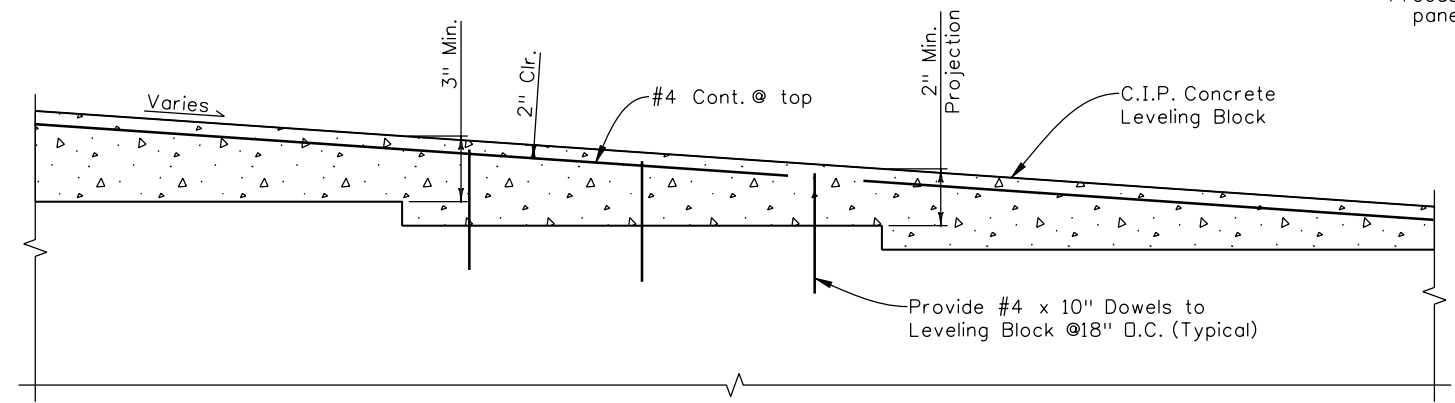
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LEVELING PAD	601	Concrete Class D	C.Y./Ft.	0.028
	601	Reinforcing Steel (Epoxy Coated)	Lb/step	16.50
HALF STEP	601	Concrete Class D	C.Y./step	0.068
	602	Reinforcing Steel (Epoxy Coated)	Lb/step	19.10
FULL STEP	601	Concrete Class D	C.Y./step	0.14
	602	Reinforcing Steel (Epoxy Coated)	Lb/step	19.10

Based on 6" nominal panel depth (D)



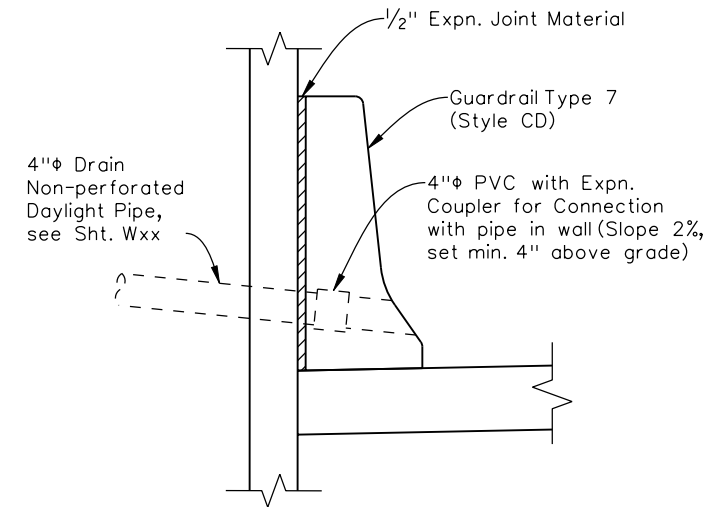
TYPICAL WALL ELEVATION

- Bottom row panel shall be F or H
- ** Width of panel shall be 10'-0", except as required at wall ends
- F : Full size segmental panel (5'-0" height)
- H : Half height segmental panel (2'-6" height)
- PH : Partial height segmental panel
- EH : Extended height segmental panel (top row panel shall be 7'-0" (Max.) height)

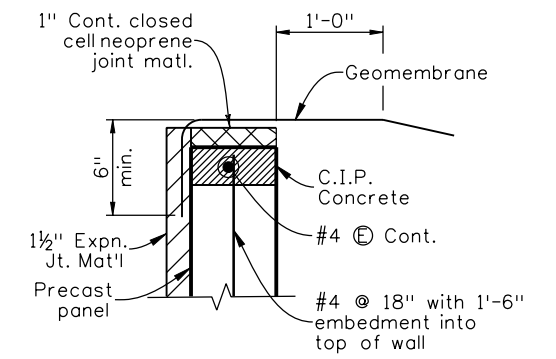


LEVELING BLOCK ELEVATION

- Notes:**
- Cast-in-place Leveling Block and Leveling Pad shall be Concrete Class D (Wall).
 - Joint Material, Neoprene, Leveling Pad Concrete, Leveling Pad Reinforcing, Leveling Block Concrete & Reinforcing Dowels shall not be paid for separately, but shall be included in the cost of Item 504 - Precast Panel Facing.
 - Geotextile Fabric and Precast Concrete Element for Corner details shall be included in the cost of Item 504 - Precast Panel Facing.



RAMP 2 WALL DAYLIGHT DRAIN PIPE THROUGH GUARDRAIL



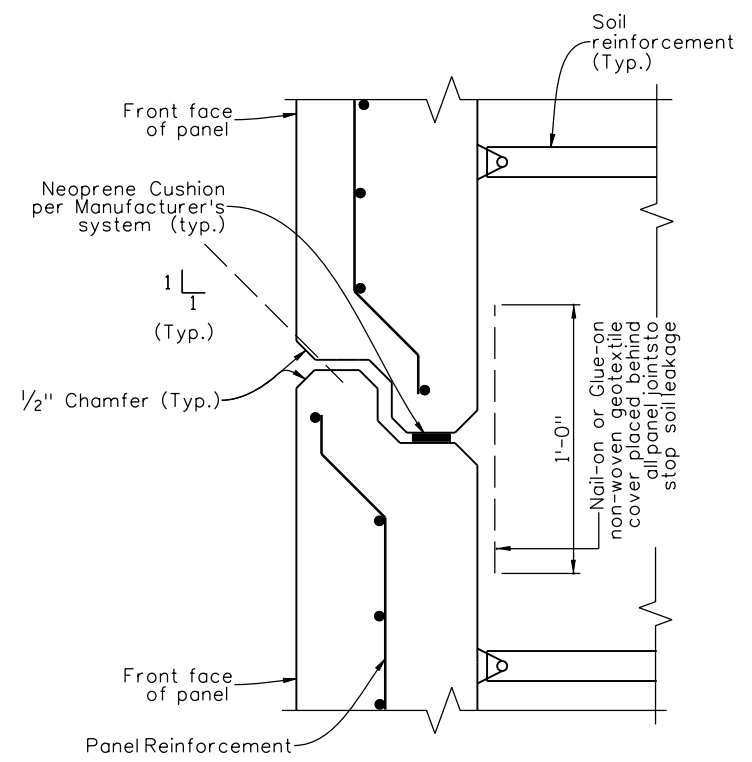
TOP OF WALL DETAIL

Print Date: 10/22/2010	 Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE MSE WALL DETAILS (3 OF 4)		Project No./Code BR 0252-407 17783 Sheet Number 303	
File Name: 16311WALL_PH2_WallDetails03.dgn			Date: Comments Init.	Designer: P. STEIN Detailer: M. EBERLY		Structure Numbers: MULTIPLE
Horiz. Scale: 1:1 Vert. Scale: As Noted Unit Information Unit Leader Initials			 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions	Sheet Subset: WALL Subset Sheets: W29 of 67		

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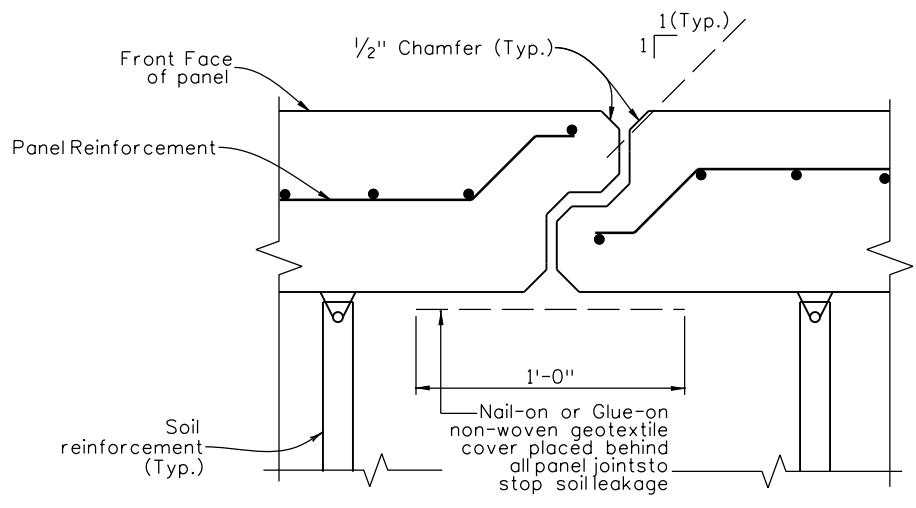
Revision Dates	(Preliminary Stage Only)
7/10	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
xxx	MM/YY	xxx	MM/YY	xxx	MM/YY
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



HORIZONTAL PANEL JOINT DETAIL SECTION W29 B

(Soil reinforcement shown for illustration purposes.)





VERTICAL PANEL JOINT SECTION W29 A

(Soil reinforcement shown for illustration purposes.)

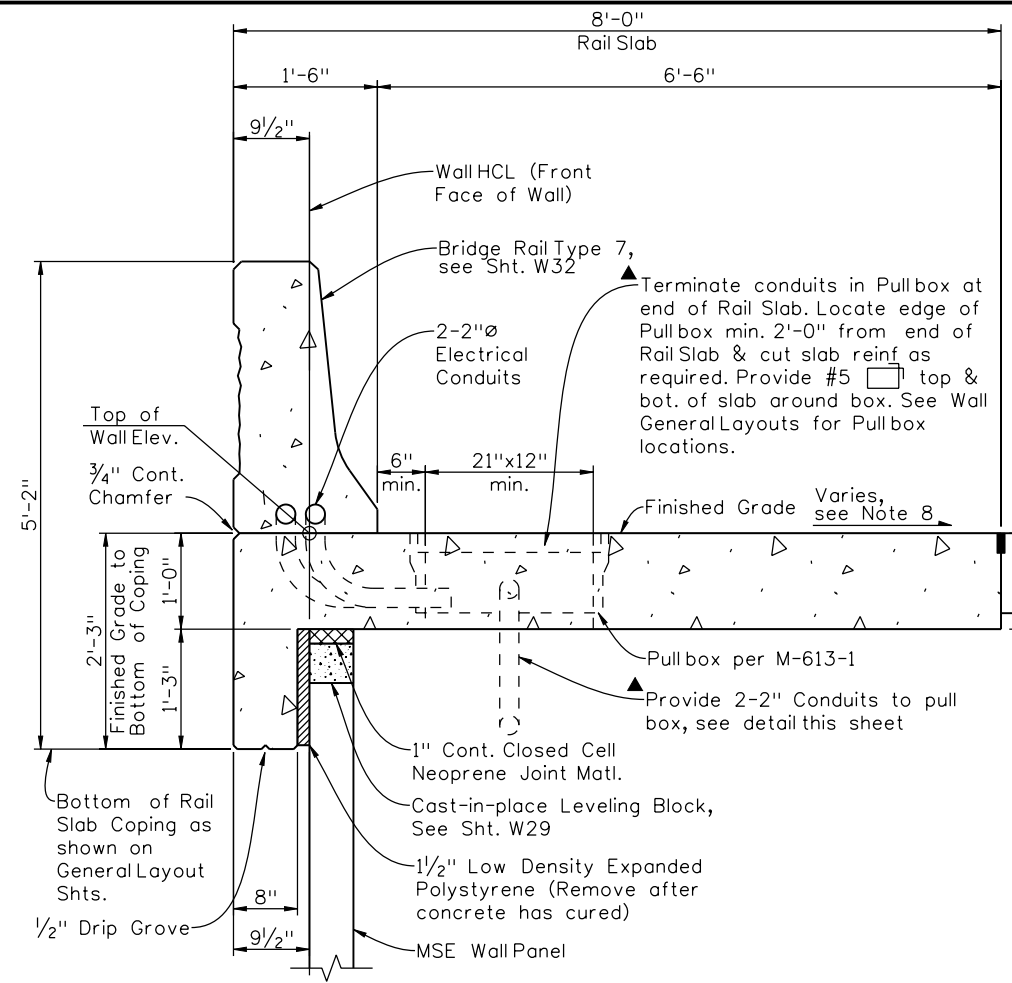
NOTES:

1. Panel lifting hook embedments and related hardware shall be furnished, sized, and placed by fabricator (per Contractor's design) for each individual panel.
2. The acceptable panel joint material between panels shall be proposed by the contractor with approval of the Engineer, and shall be included in the cost of Item 504 Precast Panel Facing.
3. 2" clr. for rebar is typical except as noted.
4. Sawing of panels is acceptable in areas to meet existing ground if needed with approval of the engineer.
5. The tolerance on panel thickness shall not exceed $\pm 1/4"$.
6. Any flexural cracks, sags, or cambers greater than 0.5" will be considered evidence of mishandling, overloading, or exceeding allowable tolerances, and may be cause for rejecting panels at the Engineer's discretion.
7. Care must be taken to ensure proper cleaning of construction debris off the tops of the panels and consolidation of concrete mortar under the edges of the panels. Water, dirt or other debris on top of the panels will inhibit the bond of the cast-in-place concrete. It is also important that adequate space (min. 1" x 2") is provided for the concrete to fill the space under the panel as the slab concrete is placed. Panel lengths and width shall be determined by the Contractor and shown on the shop plans.
8. The Contractor is responsible for the stability of the panels during shipping, delivery, inspection, and anytime during construction. Erected panels shall be uniformly supported along the length of the panel. The contractor shall provide an installation and erection plan to the engineer for information only at no additional cost.
9. Panel supplier may submit alternative horizontal and/or vertical joint detail in shop drawings for Engineer's approval.

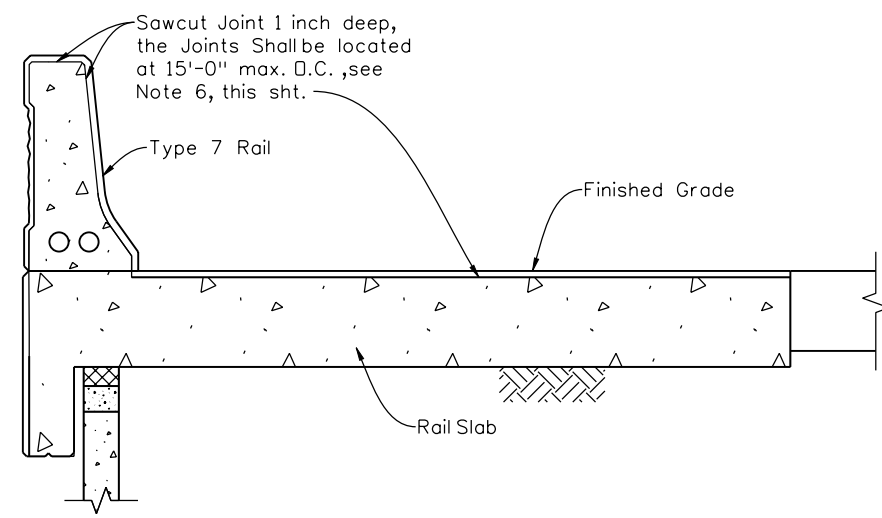
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Unit Information Unit Leader Initials				Void:	Detailer: M. EBERLY		17783		
 FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111 25 years of engineering paths to transportation solutions					Sheet Subset: WALL	Subset Sheets: W30 of 67	Sheet Number 304		

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WJM	10/10	WJM	10/10	WJM	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



RAIL SLAB & BRIDGE RAIL DIMENSIONS

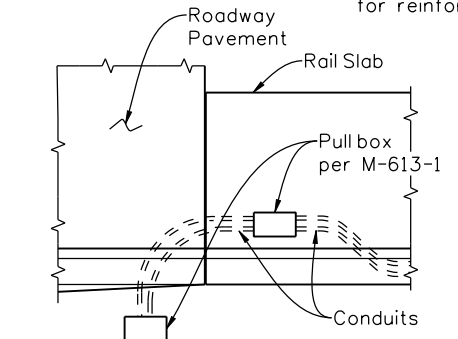


TRANSVERSE CONTRACTION JOINTS

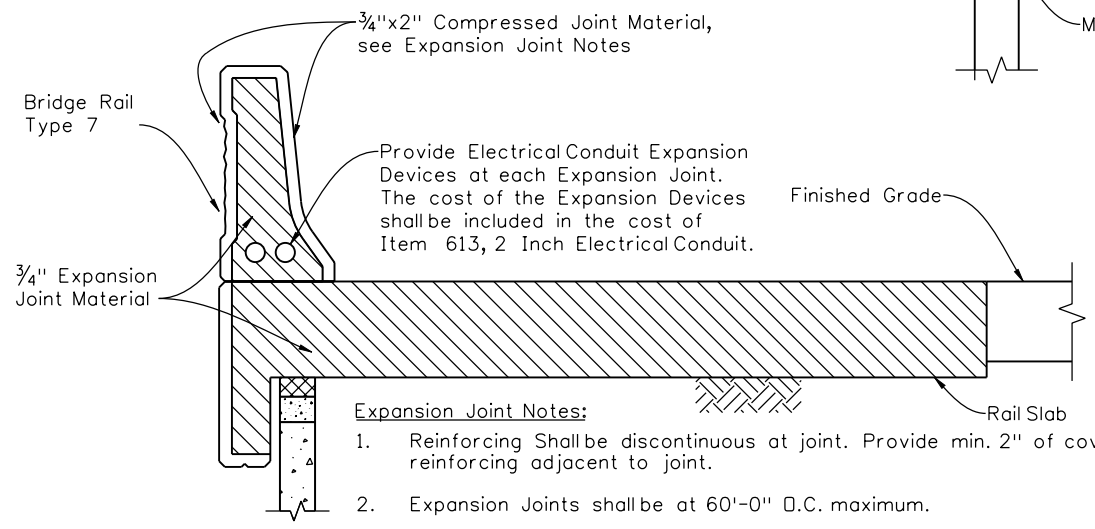
**QUANTITIES (FOR INFORMATION ONLY)
BRIDGE RAIL TYPE 7 (SPECIAL)**

DESCRIPTION	UNIT	PER LINEAR FOOT
CONCRETE CLASS D	CY	0.15
REINFORCING STEEL (EPOXY)	LB	32.4

▲ Conduit and Pull box required at these Walls only:
 Ramp 2 Wall
 I-25 NB Wall 1
 I-25 NB Wall 2
 I-25 SB Wall 1
 I-25 SB Wall 2
 Ramp 1 Wall 3
 Ramp 1 Wall 4



CONDUIT TERMINATION PLAN

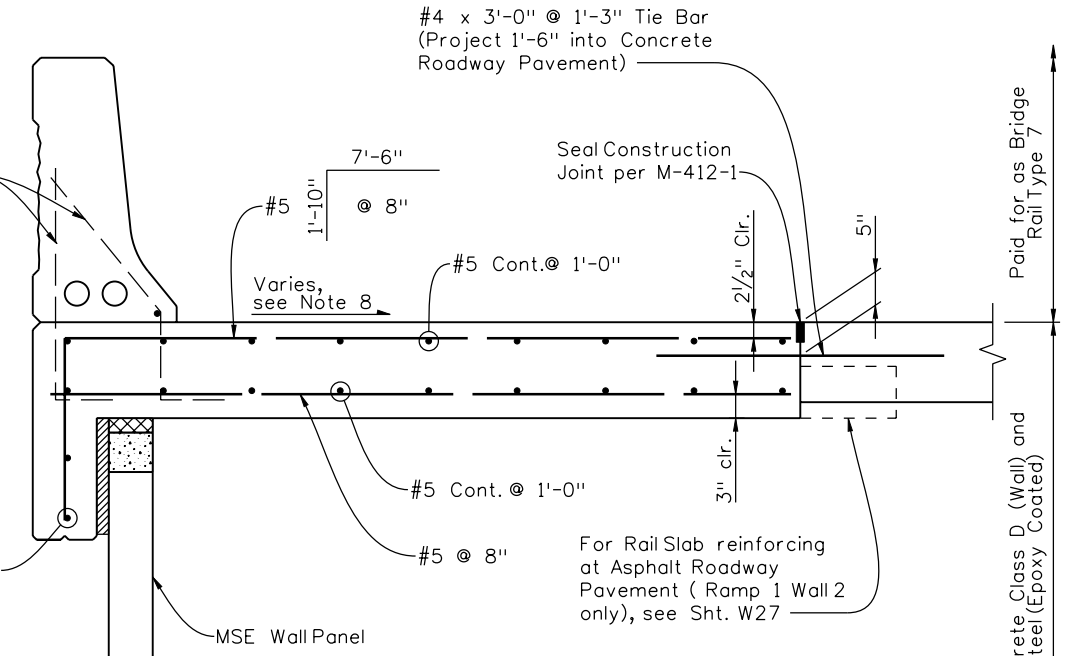


Expansion Joint Notes:

1. Reinforcing shall be discontinuous at joint. Provide min. 2" of cover for reinforcing adjacent to joint.
2. Expansion Joints shall be at 60'-0" O.C. maximum.
3. Rail Slab Expansion joints shall match locations of roadway pavement joints where applicable, coordinate with Concrete Jointing Plans. Provide Expansion Couplings at electrical conduit.
4. Compressed Joint Material shall be pre-compressed, chemically resistant, open cell polyurethane foam sealant, impregnated with a water-repellent material, with adhesive backing on both sides. The Joint Material shall be epoxied in place, and all splices sealed, as recommended by the supplier of the Joint Material. The cost shall be included in the cost of Item 601, Class D Concrete.

Acceptable Compressed Joint Material Alternatives (or approved equal):
 Will-Seal
 Seal-Mate #517
 Poly-Tite "N"

BRIDGE RAIL/RAIL SLAB EXPANSION JOINT



REINFORCING DETAILS

■ Reinforcing included in cost of Bridge Rail Type 7

General Rail Slab Notes:

1. All Bridge Rail Concrete shall be Class D (Wall).
2. Bridge Rail Concrete and Epoxy Reinforcing Steel shall conform to the requirements of Sections 601 and 602. Payment shall be made under item 606, Bridge Rail Type 7.
3. The surface of the rail shall be tested with a 10 foot straight edge laid along the surface in the longitudinal direction. Deviation of the concrete surface from the straight edge shall be less than 1/4" plus allowance for roadway horizontal and vertical curvature, if any.
4. Concrete cover shall be 2" unless noted otherwise.
5. Bridge Rail shall be constructed plumb.
6. Coordinate Rail Slab Contraction & Expansion joints with roadway pavement joints. Rail Slab joints shall match locations of roadway pavement joints where possible. See Concrete Jointing Plans.
7. Top finish of Rail Slab shall be tined per CDDT Standard Specifications for Road and Bridge Construction Section 412.12 (d).
8. Rail Slab cross-slope shall match the roadway cross-slope.

Design Data

Reinforced Concrete:

Class D Concrete F'c = 4,500 psi
 Reinforcing Steel Fy = 60,000 psi

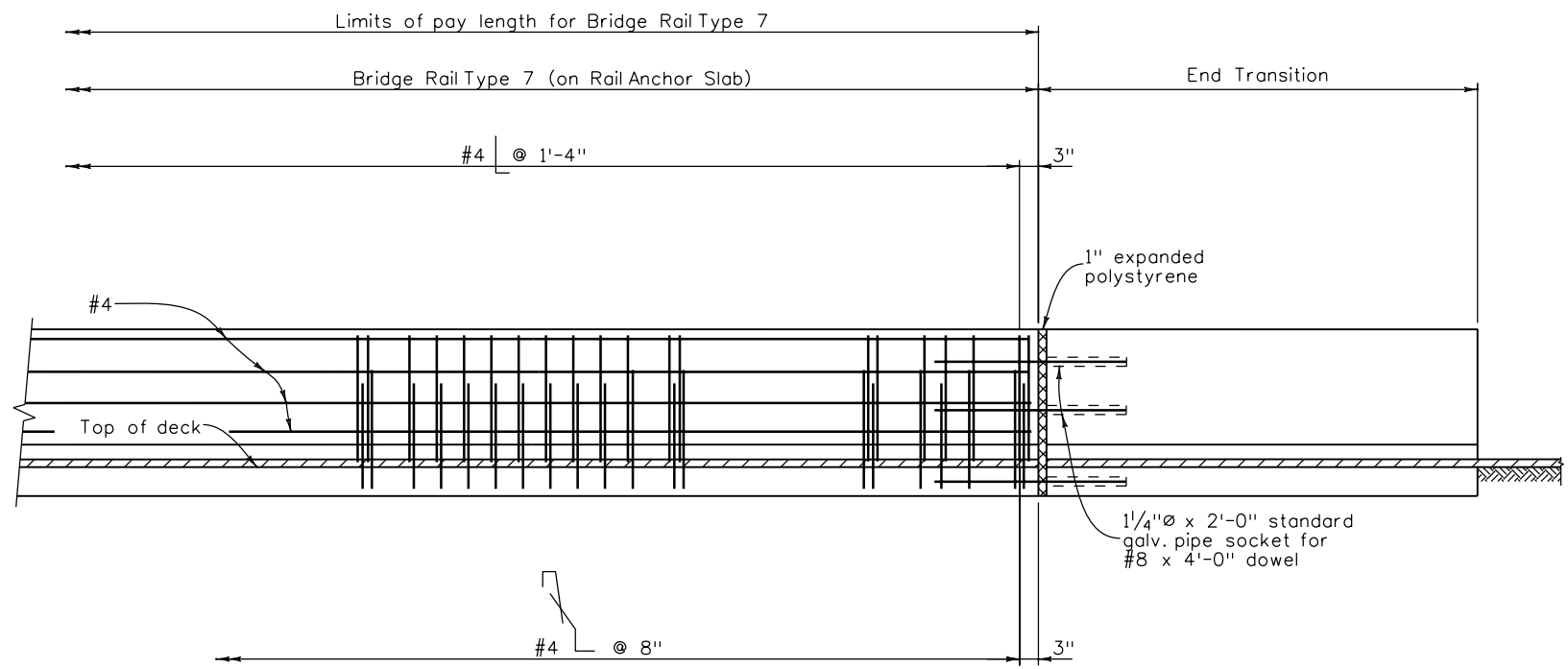
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Unit Information					Revised:	Detailer: R. DILLON	Numbers	
Unit Leader Initials				Region 6	Void:	Sheet Subset: WALL	Subset Sheets: W31 of 67	Sheet Number 305 A

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Revision Dates (Preliminary Stage Only)	
8/95	3/07
10/98	4/02
3/99	5/01
11/99	5/00
5/01	

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XXX	MM/YY	XXX	MM/YY	XXX	MM/YY
Designed By	Detailed By	Checked By	Checked By	Quantities By	Checked By
XXX	MM/YY	XXX	MM/YY	XXX	MM/YY



ELEVATION

**TRANSITION TO CONNECT
BRIDGE RAIL TYPE 7
TO GUARD RAIL**

NOTES:

Backfill wingwalls and retaining walls before barrier is placed.

All bridge rail concrete shall be Class D.

Longitudinal reinforcement shall stop at all expansion joints.

Bridge rail shall be constructed plumb.

See Std. M-606-1 and M-606-13 for Guard Rail Type 3 details and details of transition.

Concrete and reinforcing steel shall conform to the requirements of Sections 601 and 602. Payment will be made under Item 606, Bridge Rail Type 7.

The surface of the rail shall be tested with a 10 foot straightedge laid along the surface in the longitudinal direction. Deviation of the concrete surface from the straightedge shall be less than 1/4" plus allowance for roadway horizontal and vertical curvature, if any.

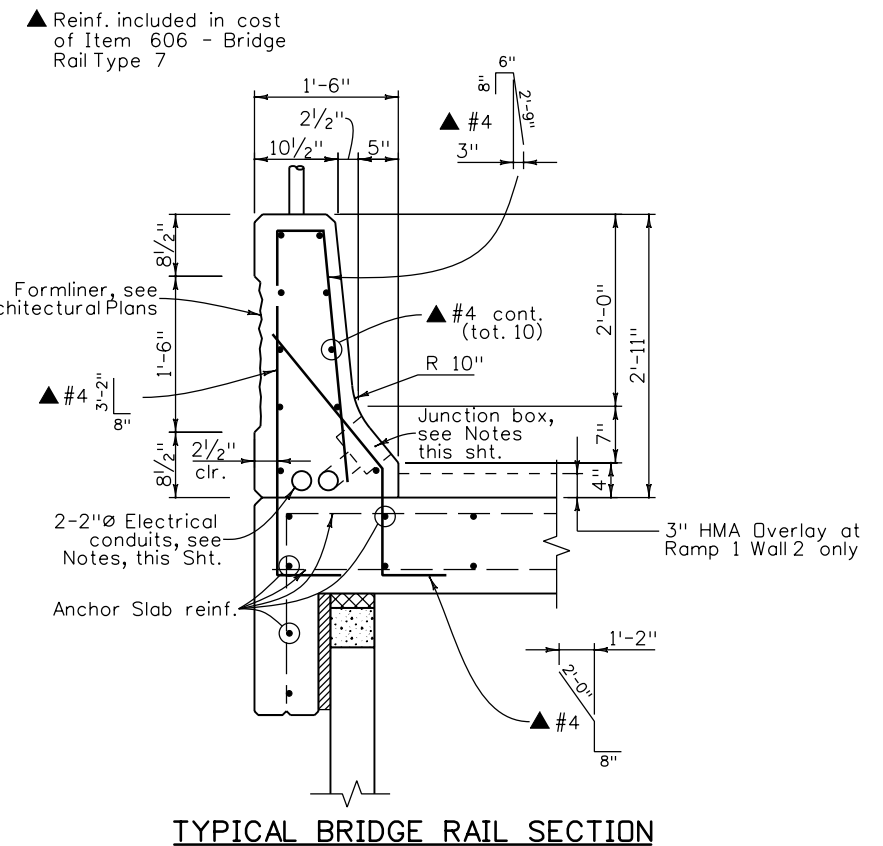
Provide NEMA 3RX watertight Junction box in face of Bridge Rail at 200' max. intervals. Junction boxes shall be 6"x6"x4" deep, and painted to match the Bridge Rail color. Provide expansion couplings at transition from Bridge Rail on Approach Slab to Retaining Wall Rail Slab. Terminate conduits at pull box located in Rail Slab at end of wall, see Sht. Wxx and Wall General Layouts. Junction boxes, pull boxes and expansion couplings will not be paid for separately, but shall be included in the cost of Item 613 - 2 Inch Electrical Conduit.

DESIGN DATA

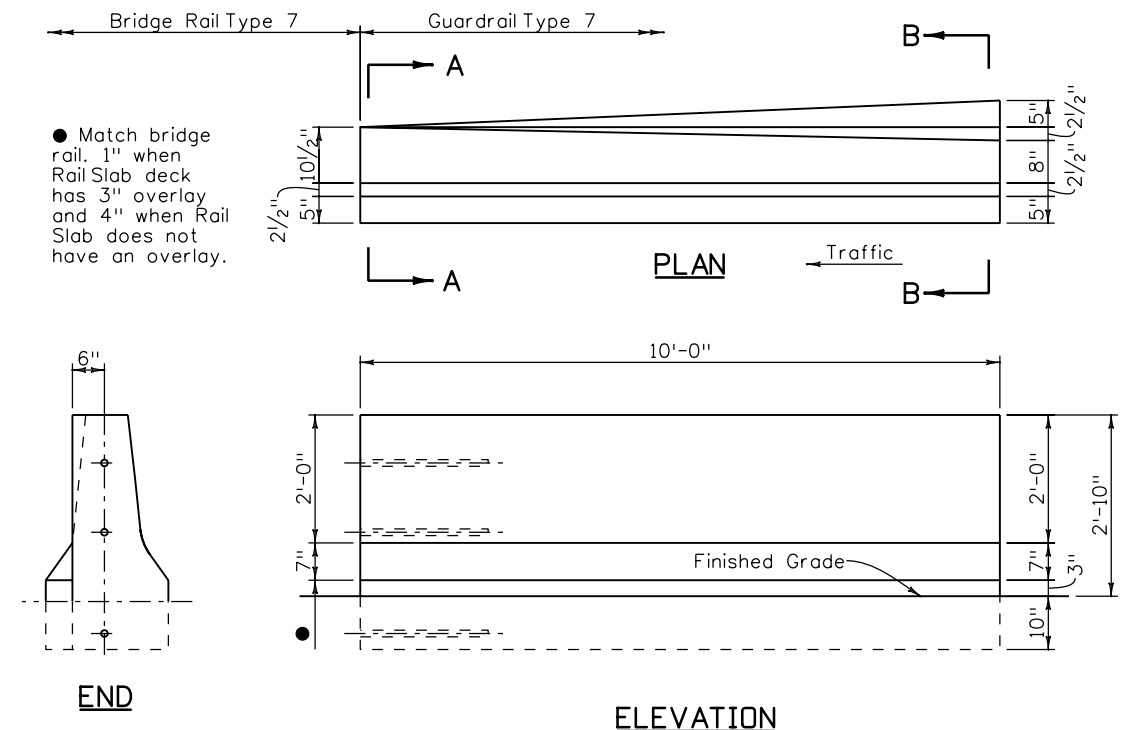
Reinforced Concrete:
 Class D Concrete: $f'_c = 4,500$ psi
 Reinforcing Steel: $f_y = 60,000$ psi

INFORMATION ONLY

Description	Unit	Per Lin. Ft.
Concrete Class D	Cu. Yd.	0.12
Reinforcing Steel (Epoxy)	Lb.	16.2

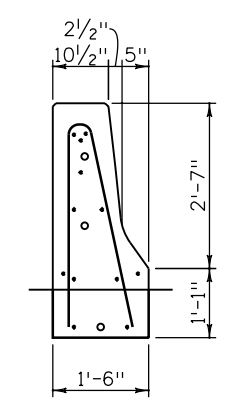


TYPICAL BRIDGE RAIL SECTION

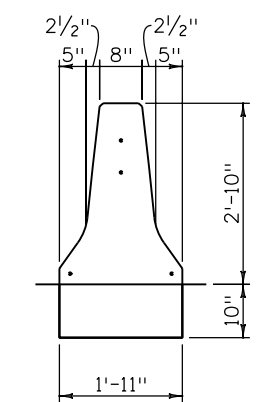


ELEVATION

**BRIDGE RAIL TYPE 7 TO ROADWAY
SHOULDER TYPE 7 END TRANSITION**



SECTION A-A



SECTION B-B

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_BridgeRail01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

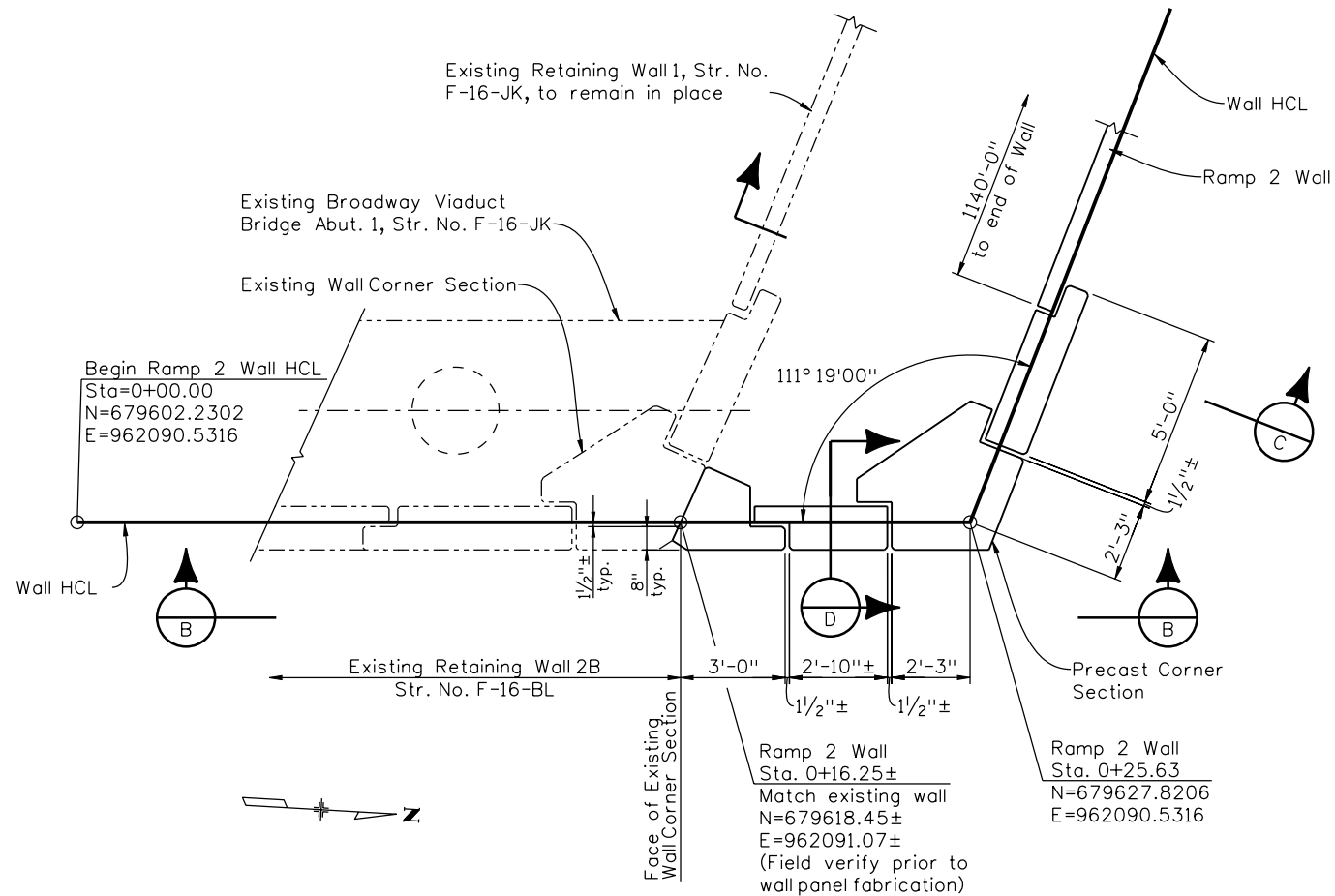
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112
 Region 6

As Constructed
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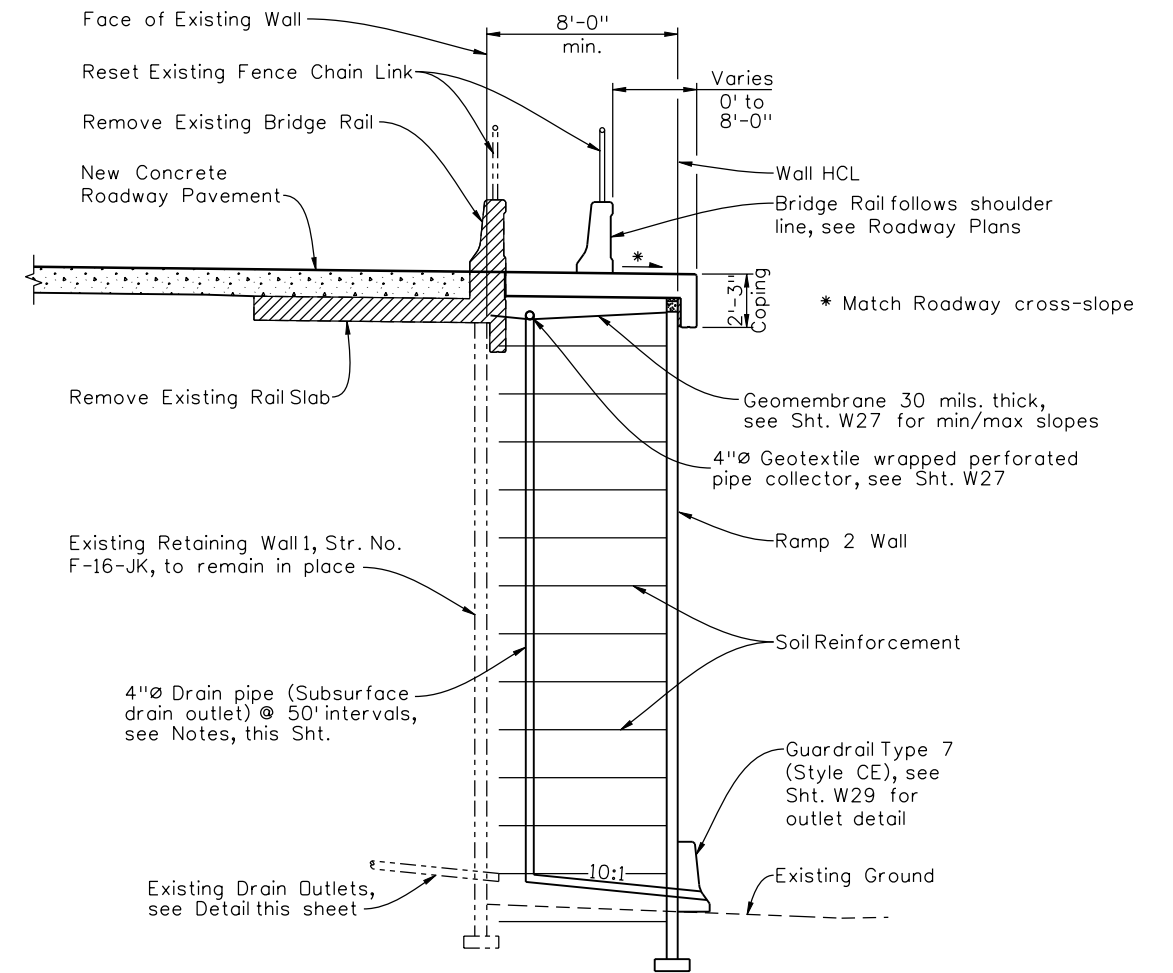
I-25/SANTA FE INTERCHANGE
BRIDGE RAIL TYPE 7
 Designer: P. STEIN
 Detailer: M. EBERLY
 Sheet Subset: WALL

Project No./Code
 BR 0252-407
 17783
 Sheet Number **306**

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**PLAN
CORNER AT EXISTING BROADWAY VIADUCT ABUTMENT**



SECTION A-A

NOTES:

The contractor shall be responsible for the design and construction of the metal Reinforced MSE Walls based upon these drawings and revision of project Specification Section 206 & 504 - Concrete Panel facing MSE Wall. The wall design shall be designed for the required stability and serviceability as specified in the Project Special Provisions. All connections to existing wall panels shall be the responsibility of the designer.

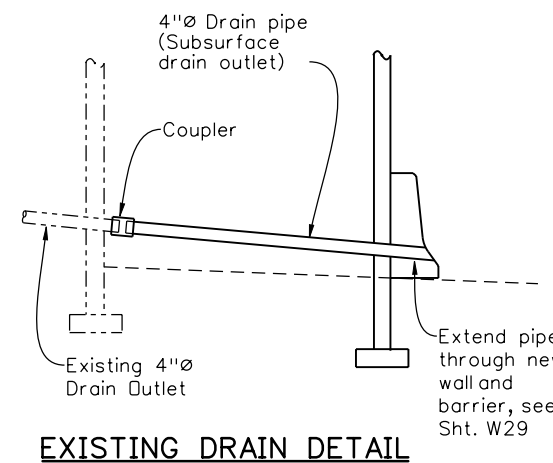
Subsurface Drain Outlets, 4" Geotextile wrapped Pipe Collector and Impervious Membrane shall not be paid for separately, but shall be included in the cost of Item 206, Mechanical Reinforcement of soil.

Horizontal location of the Subsurface Drain outlets shall be shown on the retaining wall shop drawings. Outlets shall be centered in wall panels horizontally. New drain outlet locations shall be located to avoid existing outlet locations.

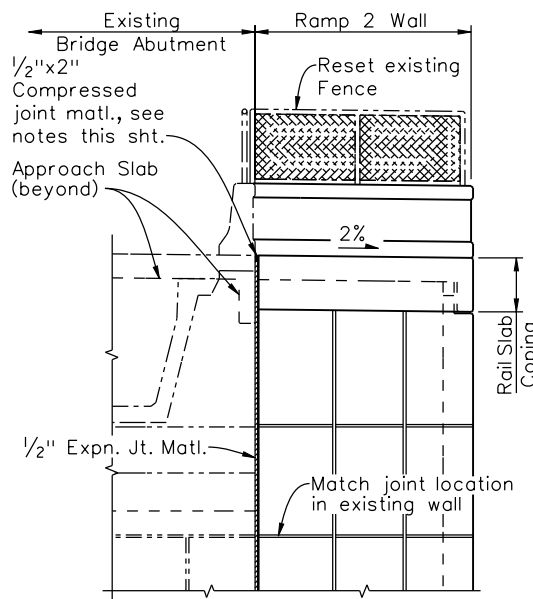
The design for the MSE Walls shall incorporate all vanegrate inlet and manhole locations. See wall general layouts, drainage plans, and Sheet W33.

See Sheets W42 and W43 for Structure Excavation and Backfill Limits.

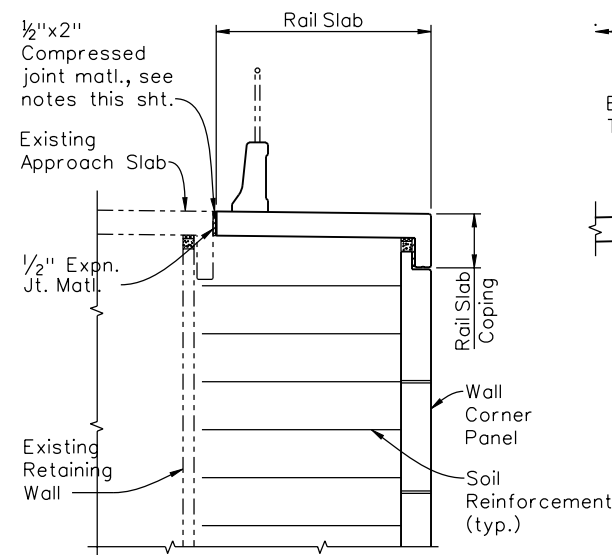
Acceptable Compressed Joint Material Alternatives (or approved equal):
Will-Seal
Seal-Mate #517
Poly-Tite "N"



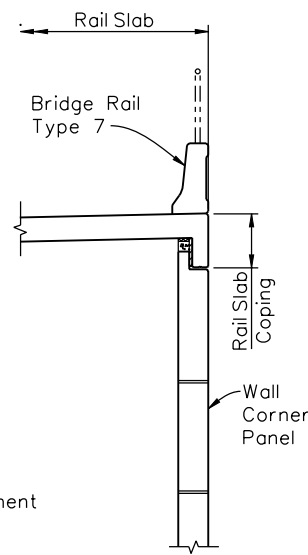
EXISTING DRAIN DETAIL



SECTION B-B



SECTION C-C



SECTION D-D

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Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

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Region 6	RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE			
RAMP 2 WALL SECTIONS			
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Detailer:	R. DILLON	Sheet Subset:	WALL
Subset Sheets:		W34 of 67	

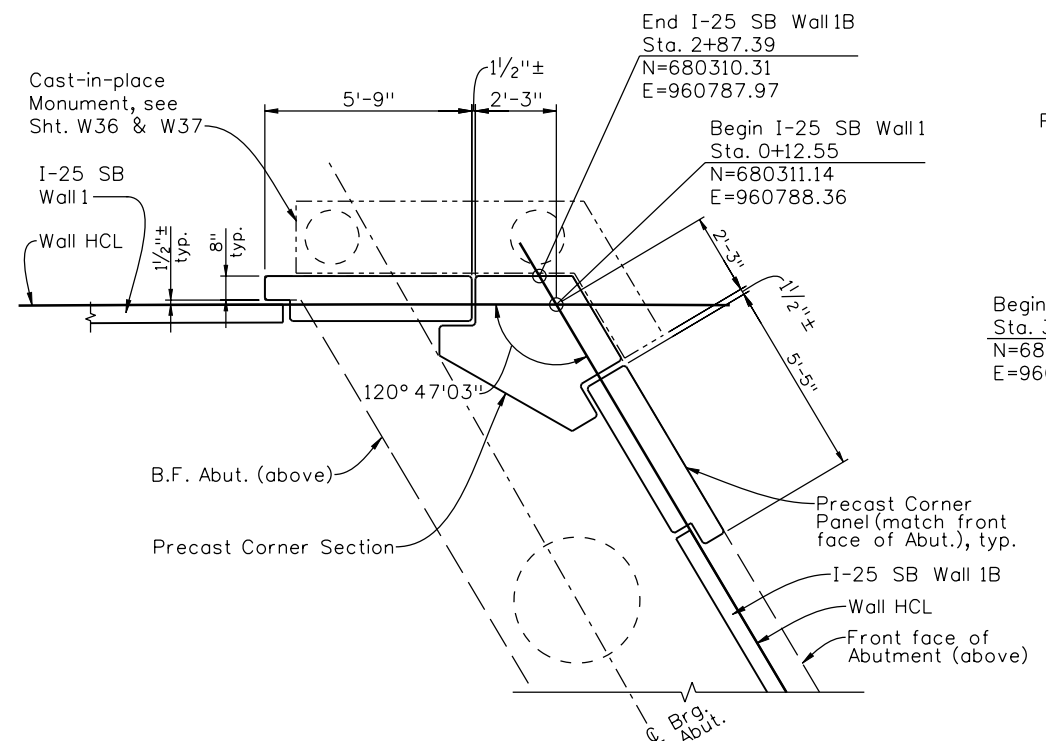
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BR 0252-407
17783
Sheet Number 308 A

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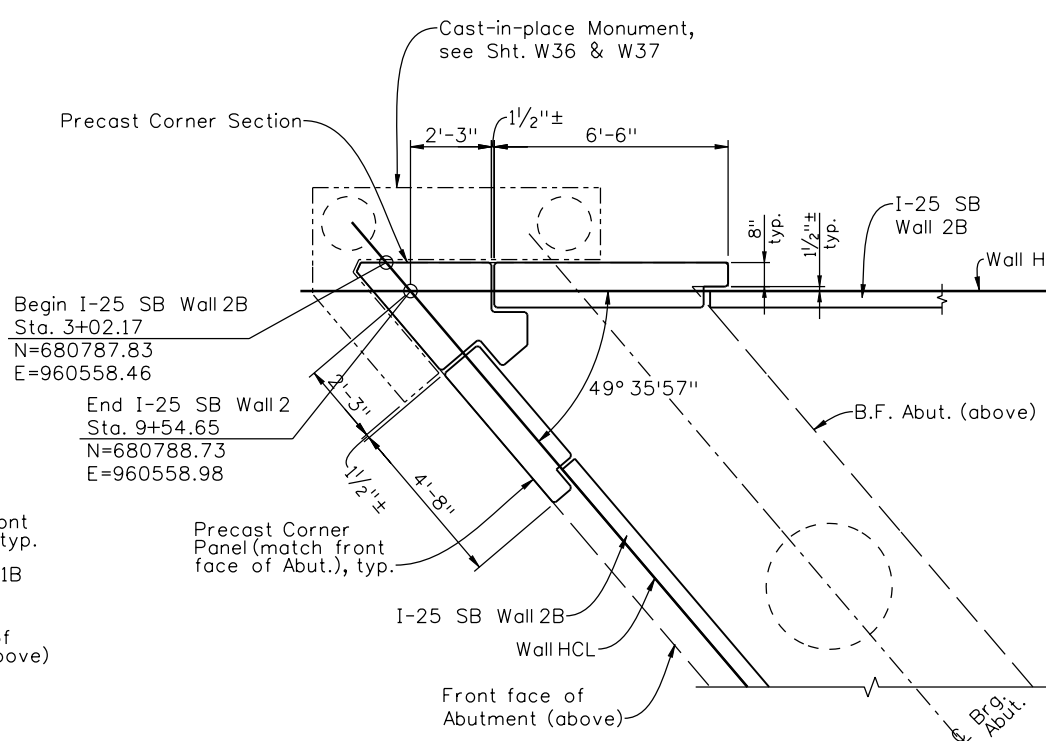
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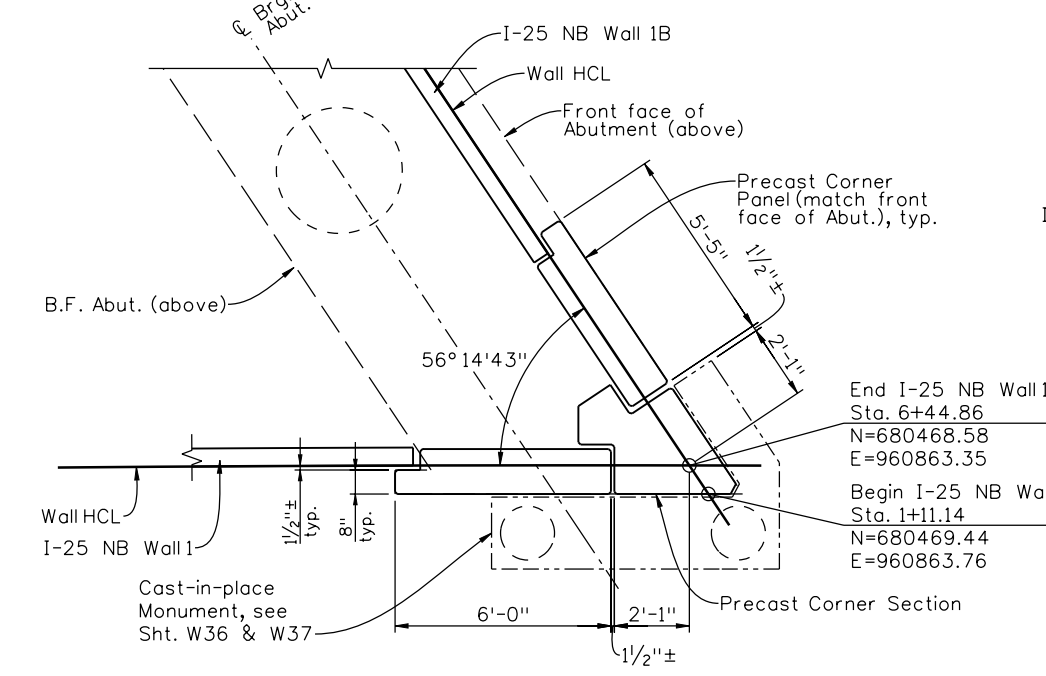
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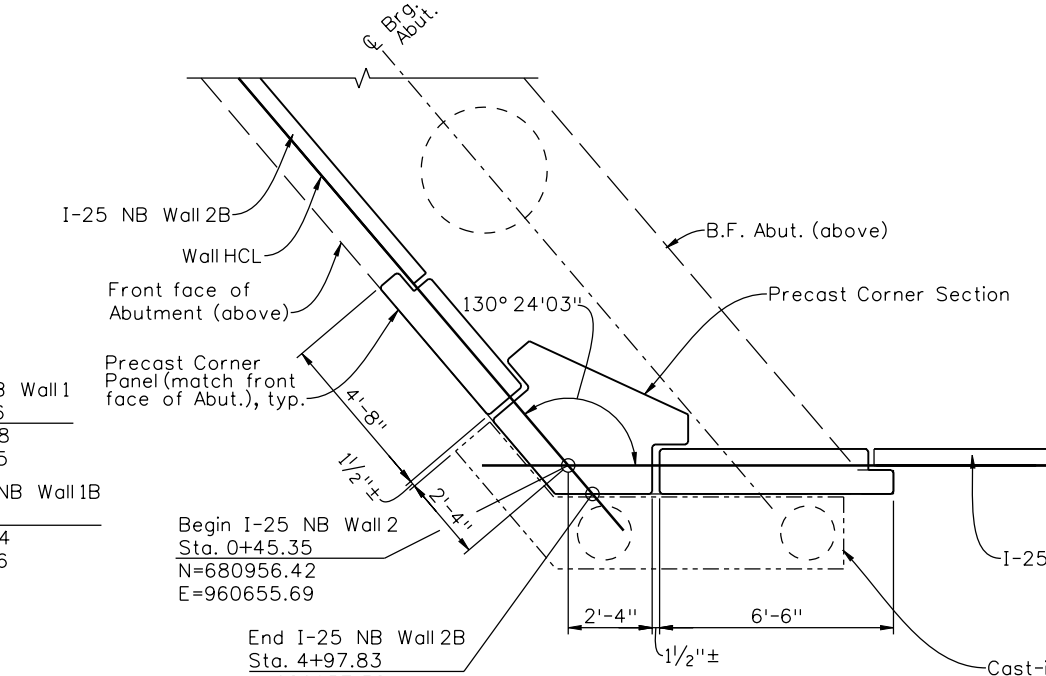
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 (Abutment 1, Str. No. F-16-XS)



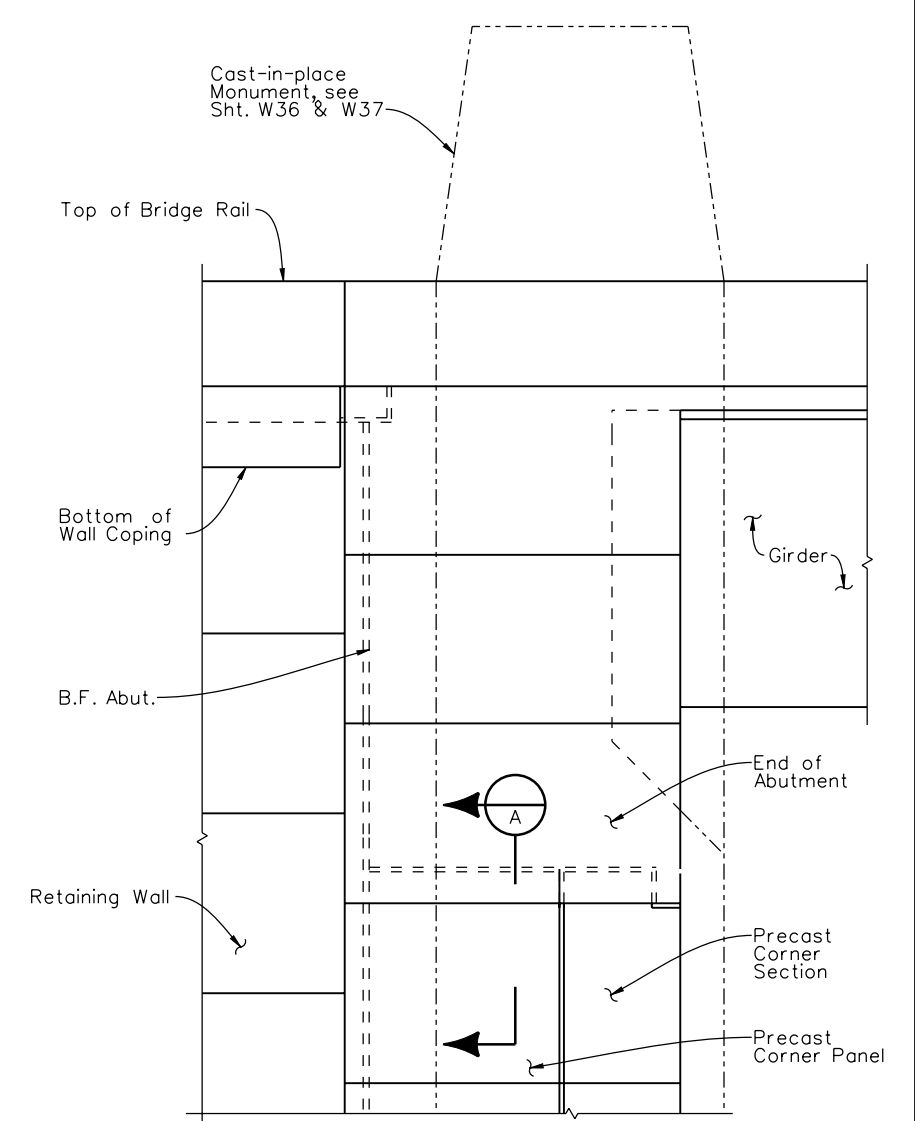
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 (Abutment 4, Str. No. F-16-XS)



PLAN
CORNER AT I-25 NB WALL 1
 (Abutment 1, Str. No. F-16-XS)



PLAN
CORNER AT I-25 NB WALL 2
 (Abutment 4, Str. No. F-16-XS)



TYPICAL CORNER PANEL ELEVATION

SECTION A-A

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Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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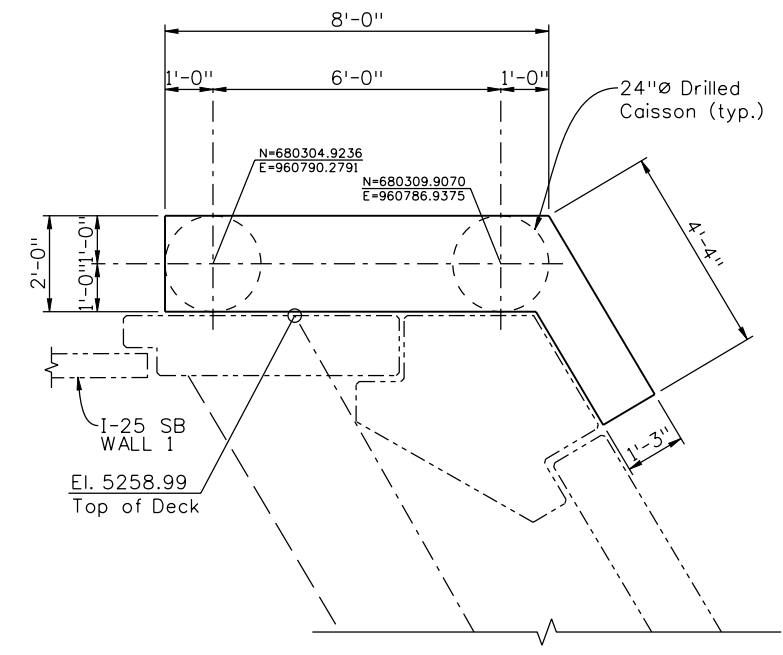
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SANTA FE BRIDGE			
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Detailer:	R. DILLON	Structure Numbers	WALL-F-16-DX
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Project No./Code
BR 0252-407
17783
Sheet Number 309

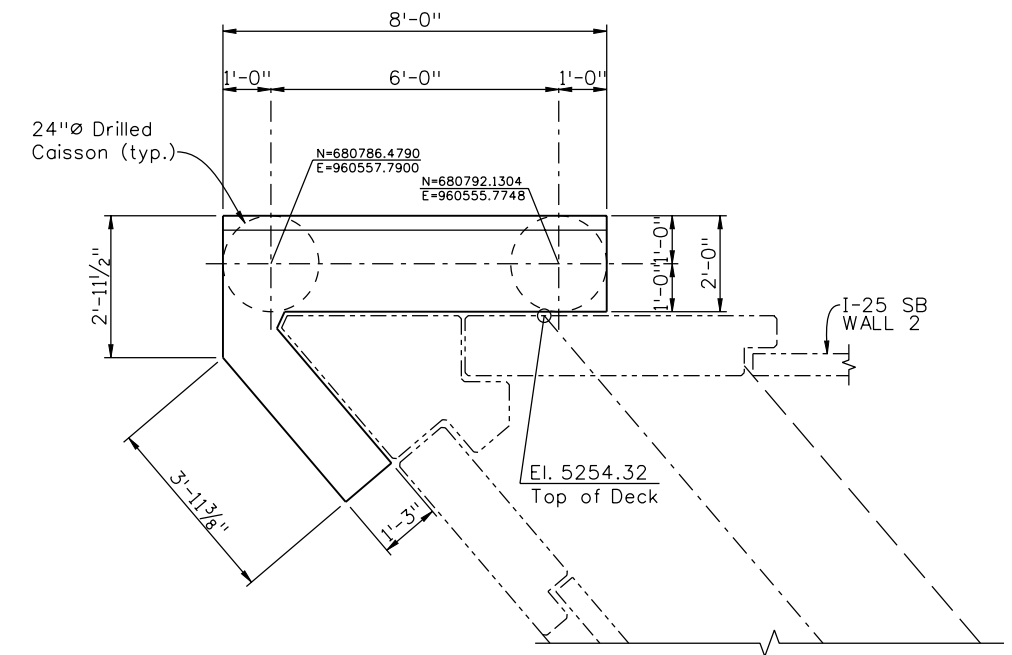
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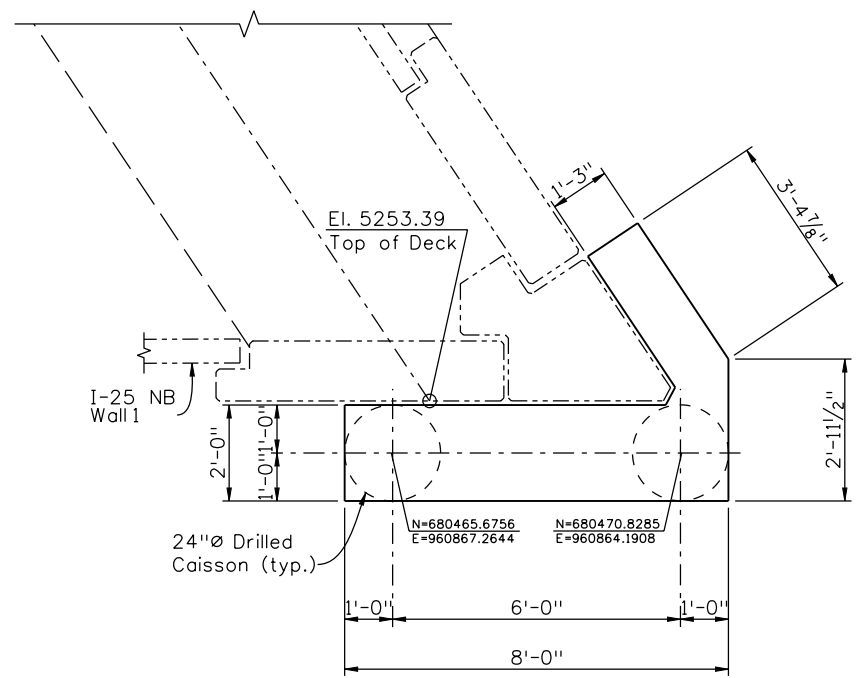
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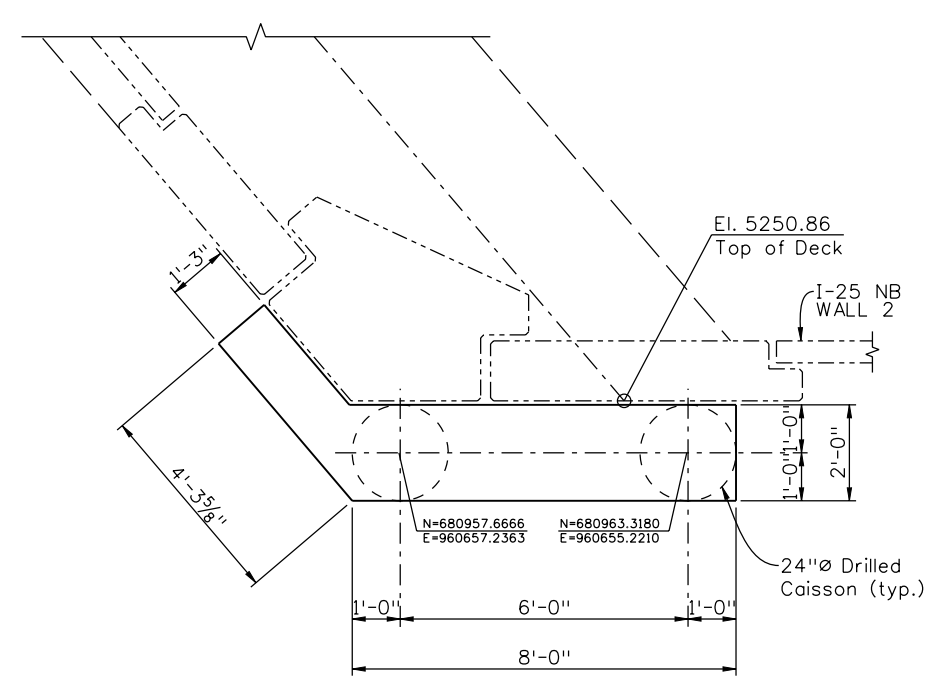
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(Str. No. F-16-XS)



PLAN
MONUMENT AT ABUTMENT 4 WEST
(Str. No. F-16-XS)



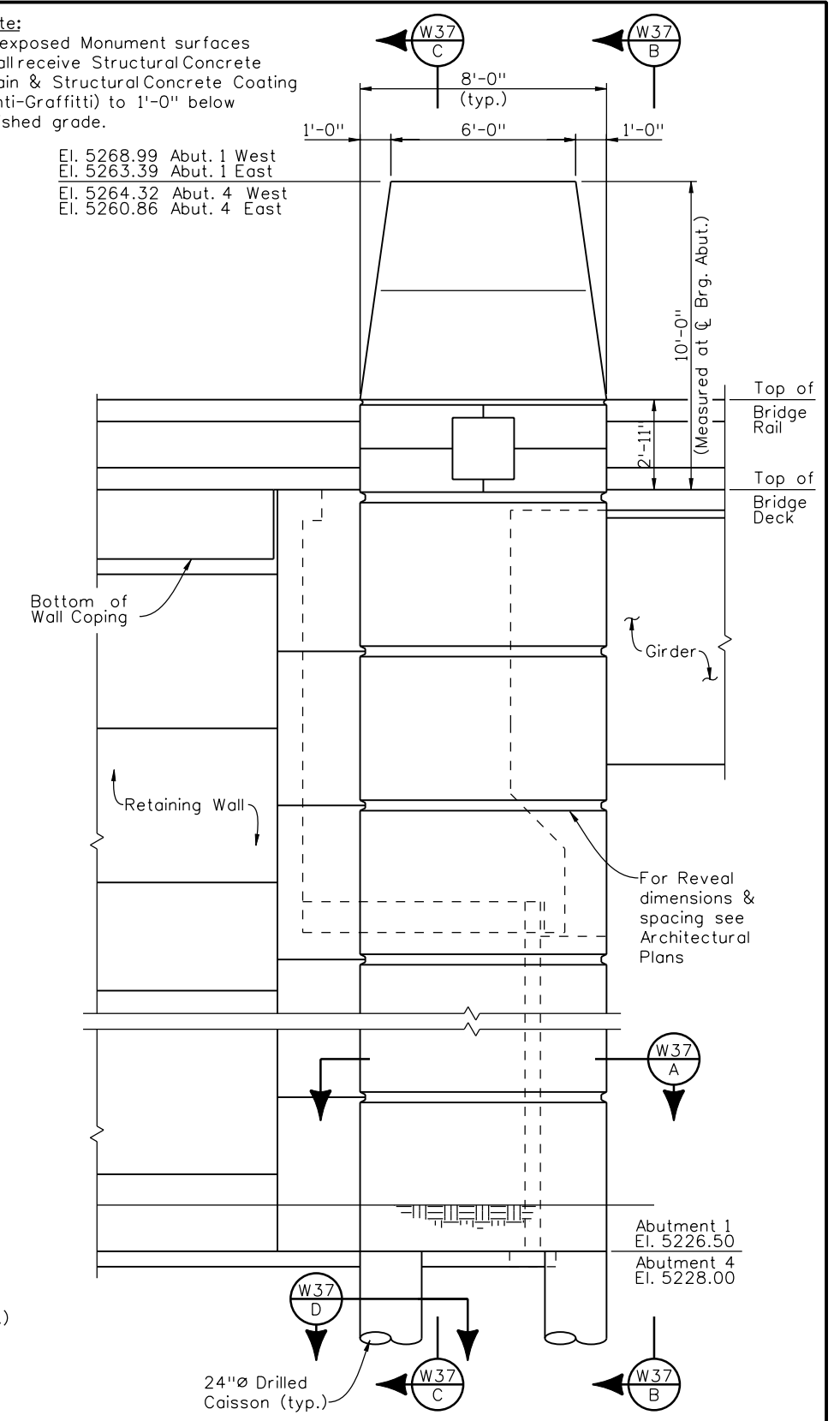
PLAN
MONUMENT AT ABUTMENT 1 EAST
(Str. No. F-16-XS)



PLAN
MONUMENT AT ABUTMENT 4 EAST
(Str. No. F-16-XS)

Note:
 All exposed Monument surfaces shall receive Structural Concrete Stain & Structural Concrete Coating (Anti-Graffiti) to 1'-0" below finished grade.

El. 5268.99 Abut. 1 West
 El. 5263.39 Abut. 1 East
 El. 5264.32 Abut. 4 West
 El. 5260.86 Abut. 4 East



TYPICAL MONUMENT ELEVATION
(Monument at Abutment 1 East shown, others similar)

Print Date: 10/22/2010	
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Unit Information Unit Leader Initials	

Sheet Revisions		
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Region 6 **RLB**

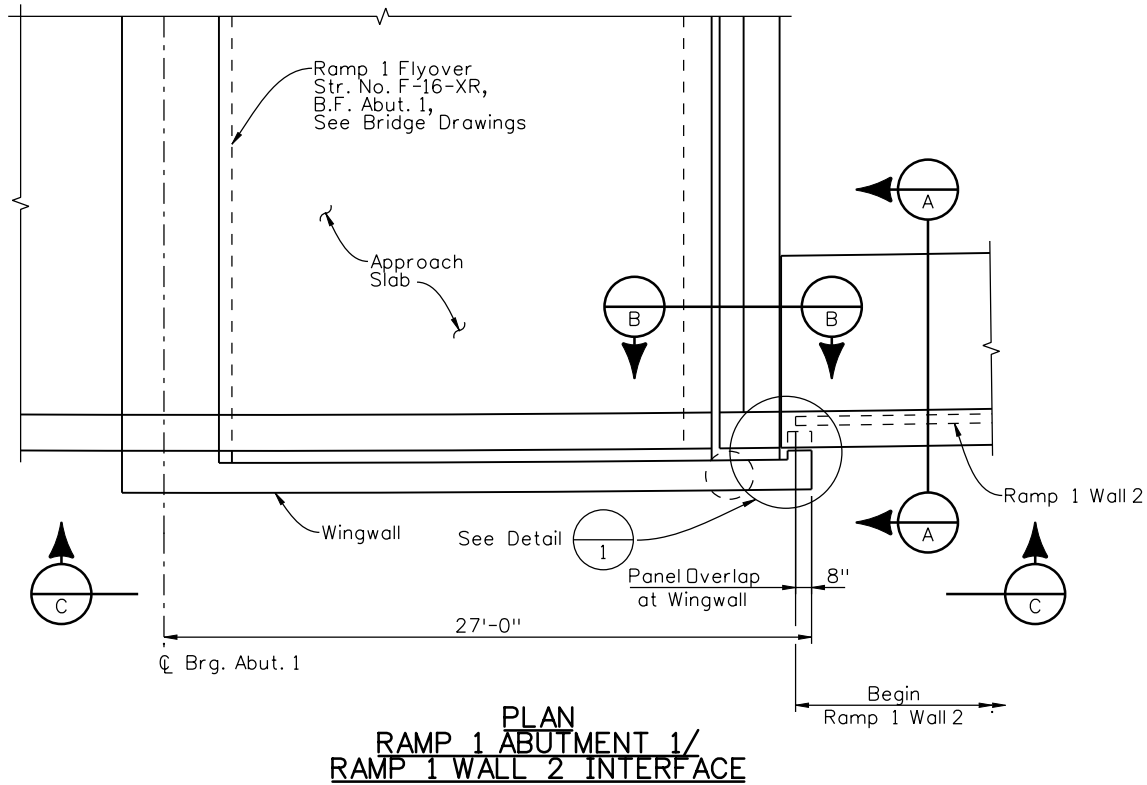
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Detailer:	R. DILLON	Structure Numbers	WALL-F-16-DX
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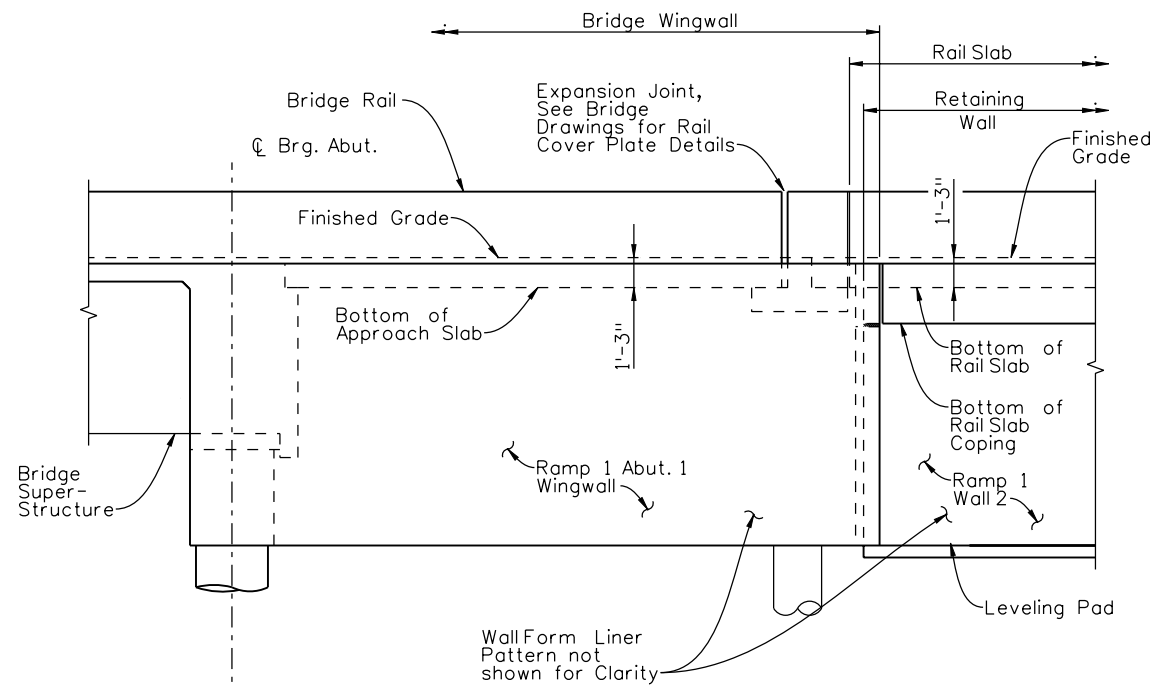
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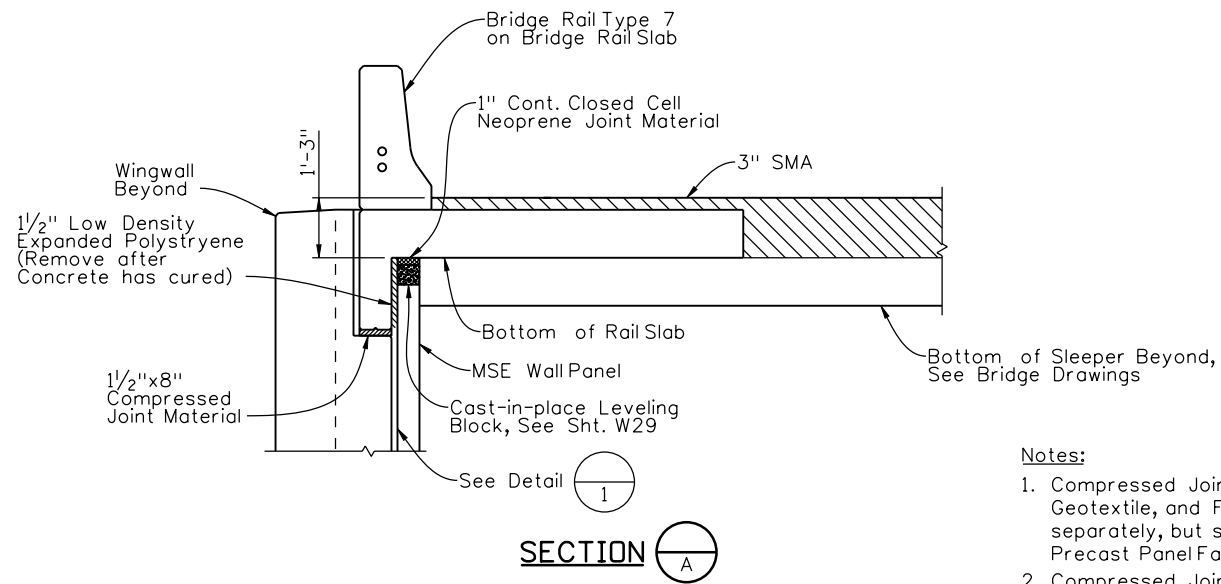
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WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By



PLAN
RAMP 1 ABUTMENT 1/
RAMP 1 WALL 2 INTERFACE



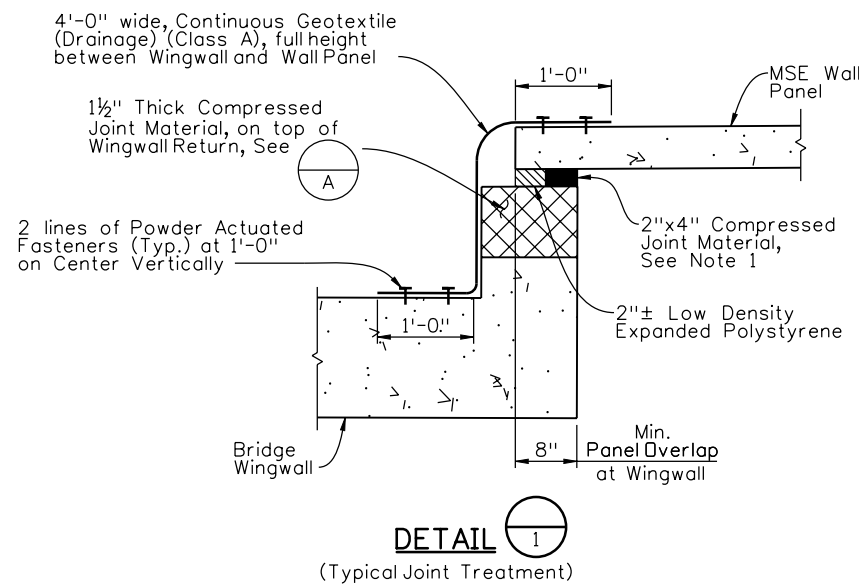
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RAMP 1 ABUTMENT 1/
RAMP 1 WALL 2 INTERFACE



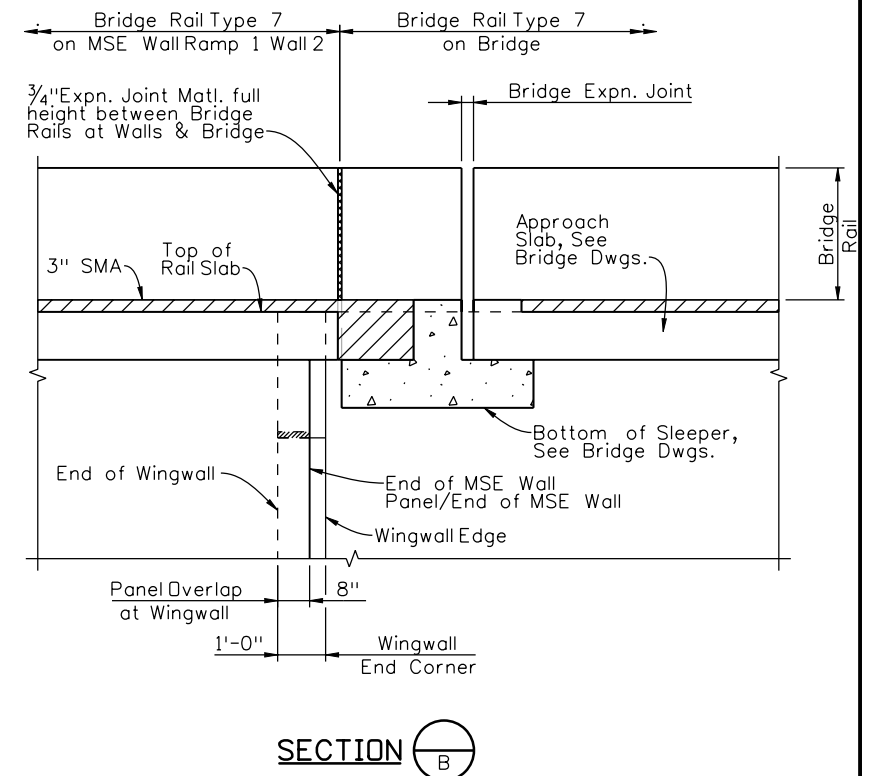
SECTION A-A

Notes:

- Compressed Joint Material, Expanded Polystyrene, Geotextile, and Fasteners shall not be paid for separately, but shall be included in Item 504, Precast Panel Facing.
- Compressed Joint Material shall be pre-compressed, chemically resistant, open cell polyurethane foam sealant, impregnated with a water-repellant material, with adhesive backing on both sides. The joint material shall be epoxied in place, and all splices sealed, as recommended by the supplier of the compressed joint material. The cost shall be included in the cost of Item 601 - Class D Concrete.



DETAIL 1
(Typical Joint Treatment)



SECTION B-B

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Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

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 Denver, CO 80222
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 Region 6 RLB

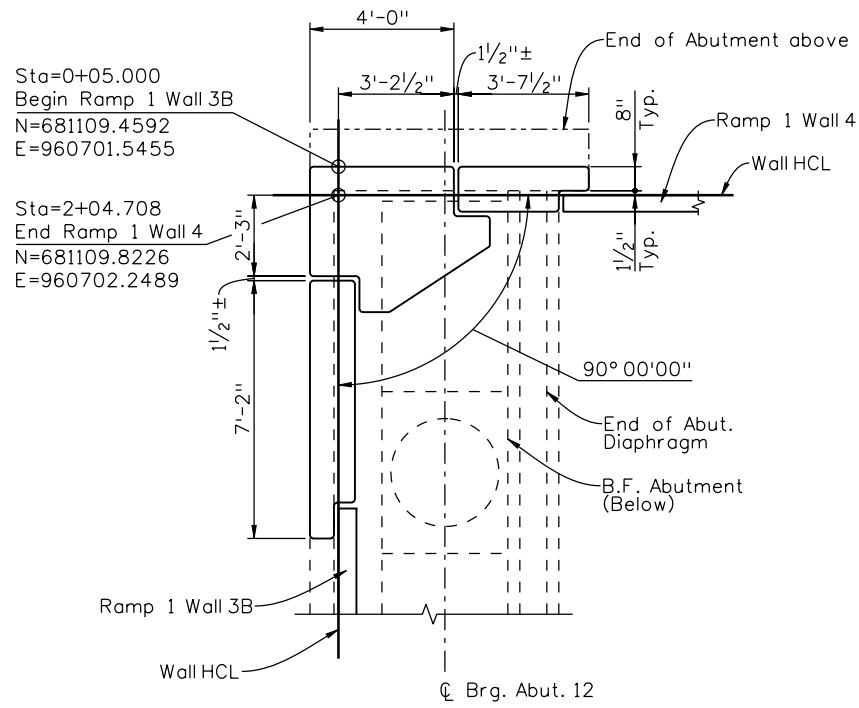
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RAMP 1 FLYOVER			
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Detailer:	M. EBERLY	Subset Sheets:	W38 of 67

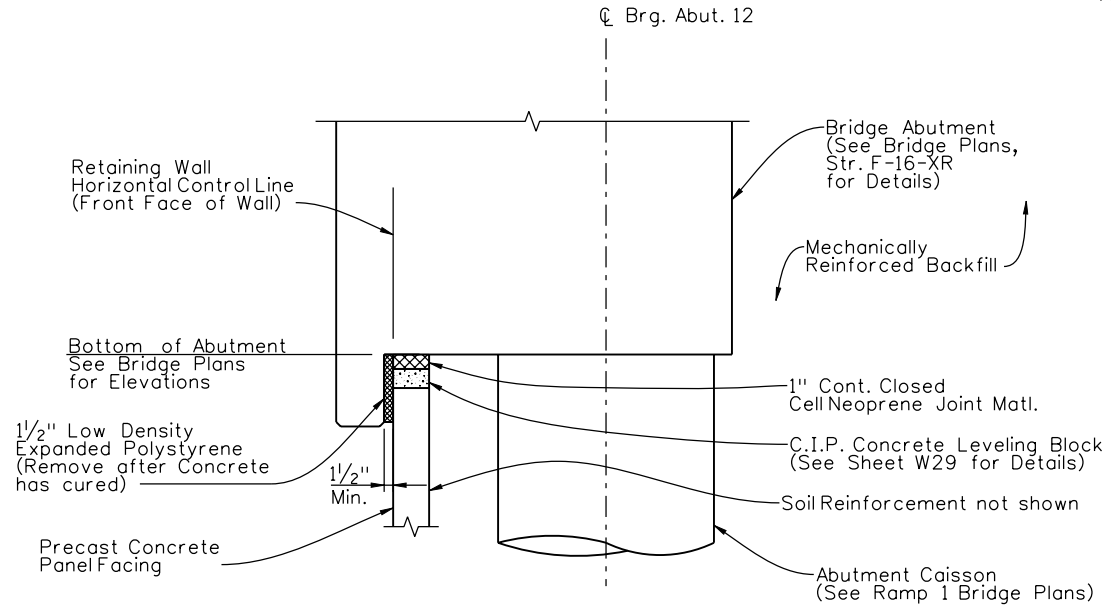
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Sheet Number 312 A

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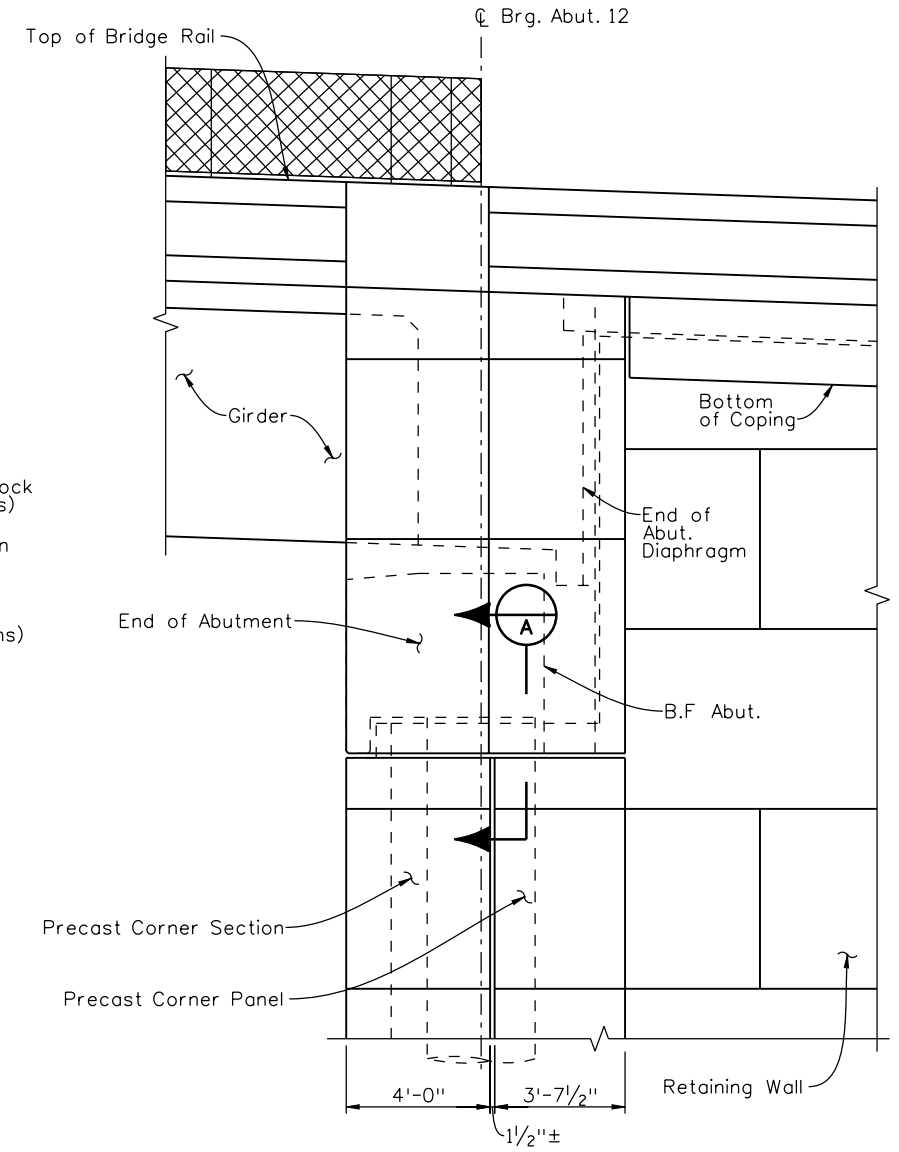
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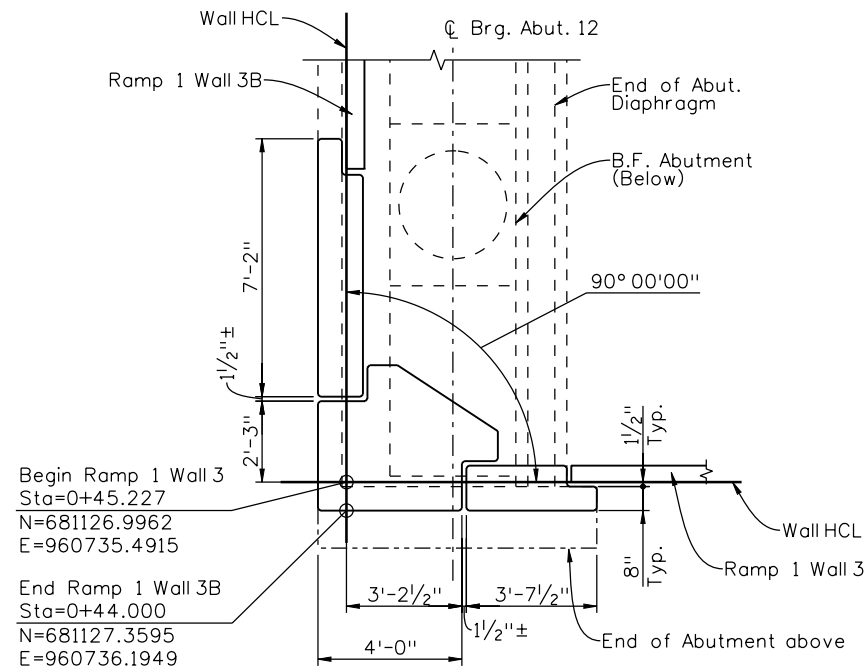
**PLAN
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(Abutment 12, Str. No. F-16-XR)



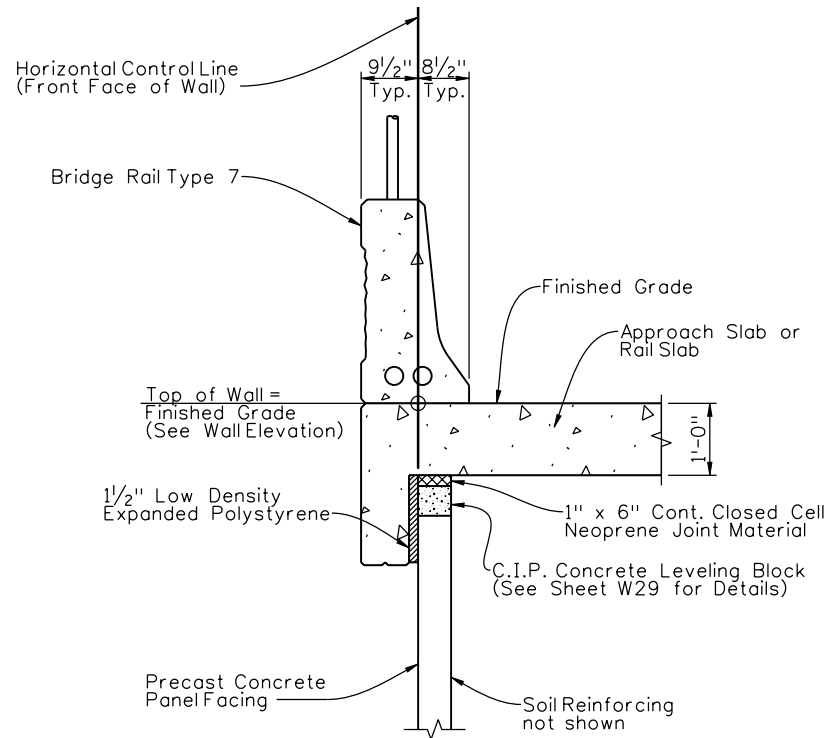
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BRIDGE ABUTMENT 12**



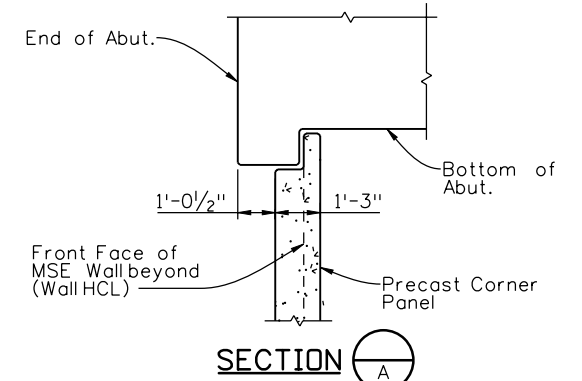
TYPICAL CORNER PANEL ELEVATION



**PLAN
CORNER AT RAMP 1 WALL 3**
(Abutment 12, Str. No. F-16-XR)



**SECTION AT APPROACH SLAB
OR RAIL SLAB**



SECTION A

Print Date: 11/19/2010

File Name: 16311WALL_PH2_AbutCorners03.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

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ULLEVIG** 6300 South Syracuse Way
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Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation

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Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

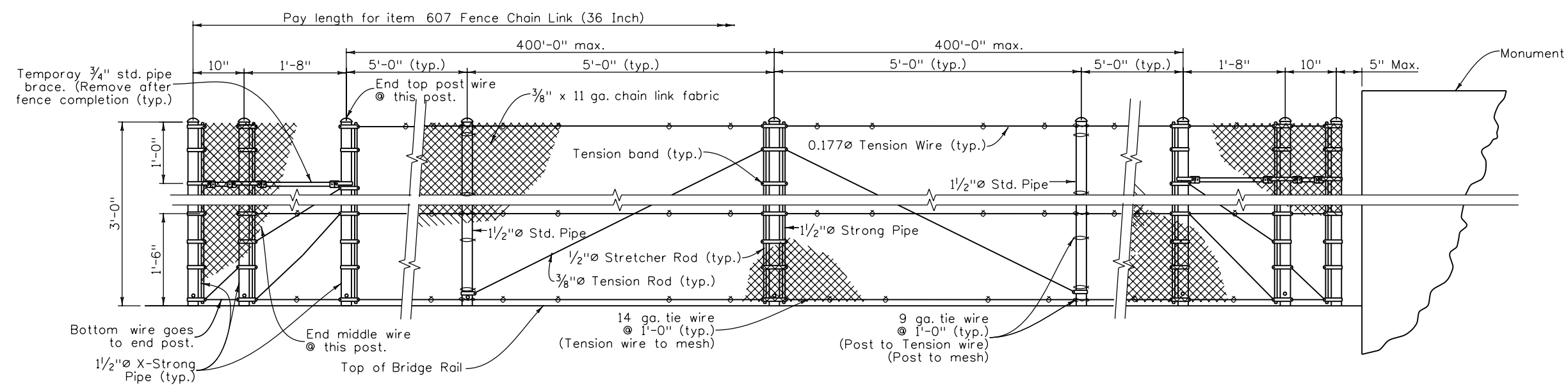
I-25/SANTA FE INTERCHANGE RAMP 1 FLYOVER ABUTMENT 12 CORNER DETAILS			
Designer:	P. STEIN	Structure	WALL-F-16-DV
Detailer:	R. DILLON	Numbers	
Sheet Subset:	WALL	Subset Sheets:	W39 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 313 A

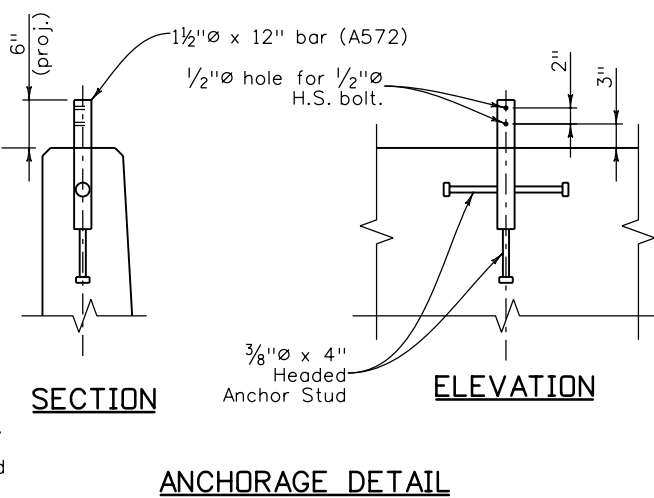
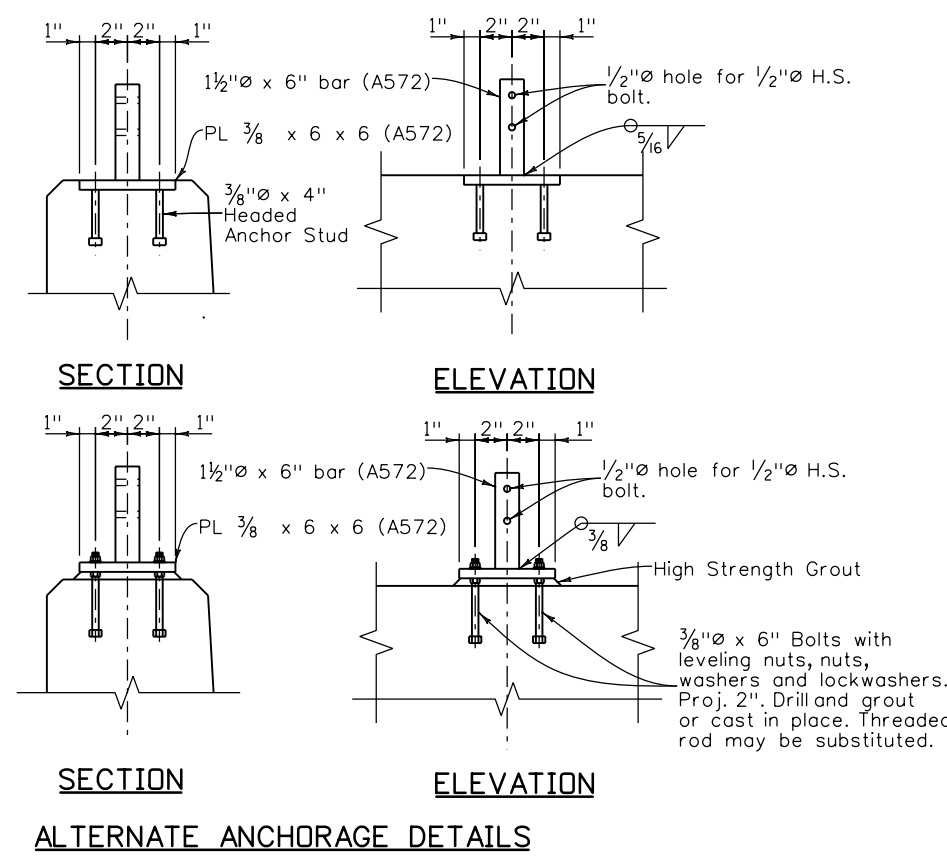
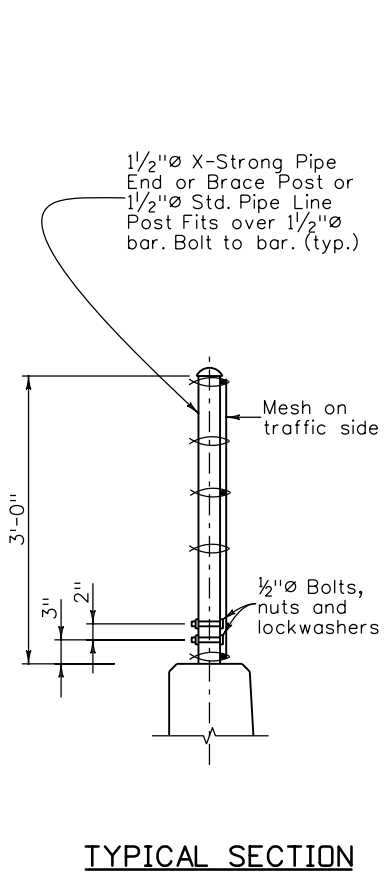
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 10/22/2010 CDDT-PDFDraftQuality_XM.plt ctf CDDT-PenTable.tbl

Revision Dates (Preliminary Stage Only)	

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	Detailed By	Checked By	Checked By	Quantities By	Checked By



END POSTS **LINE POST** **BRACE POST** (spa. @ 400' max.) **LINE POST** **END POSTS AT WALL MONUMENT**



NOTES

Anchorage assembly shall be galvanized after fabrication. The fence assembly shall be Galvanized and Vinyl Coated after fabrication. Anchorages shall only be galvanized after fabrication.

Tension Rods and Wires shall have turnbuckles.

Post shall be vertical.

Pipe shall conform to ASTM A53 Type E or S, Grade B.

DESIGN DATA

Total Tension = 5400 lbs
 Test with: Max Midbay deflection = 1/4" for
 Lateral Load of 160 lbs. on 1 ft².
 1'-6" up @ center of bay.

Live Load: wind load = 11 psf
 or snow impact load = 96 plf @ 1'-6" up

Structural Steel: Pipe f_y = 35,000 psi
 ASTM A572 (GR 50) f_y = 50,000 psi

Standard Color Vinyl Coatings over Galvanized Wire	Munsell Color System No. (as per ASTM)
Galvanized Only	None
Brown	7YR 2.4/1.75
Green	8.8G 2.63/5.8
Black	1.8PB 1.26/0.5

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_ChainLinkFence.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

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 DEPARTMENT OF TRANSPORTATION

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Region 6 RLB

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Revised:

Void:

**I-25/SANTA FE INTERCHANGE
 CHAIN LINK FENCE (SPECIAL)
 (36 INCH SPLASH GUARD)**

Designer: P. STEIN Structure: MULTIPLE
 Detailer: R. DILLON Numbers:
 Sheet Subset: WALL Subset Sheets: W40 of 67

Project No./Code

BR 0252-407

17783

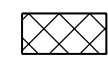
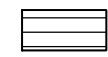
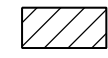

Sheet Number **314**

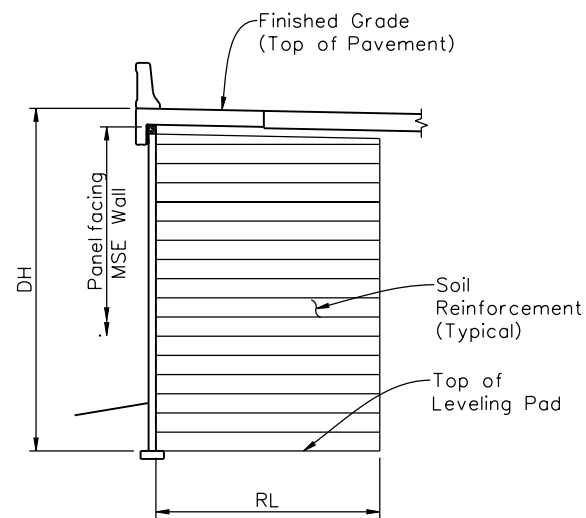
**FELSBURG
 HOLT &
 ULLEVIG** 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

ABBREVIATIONS

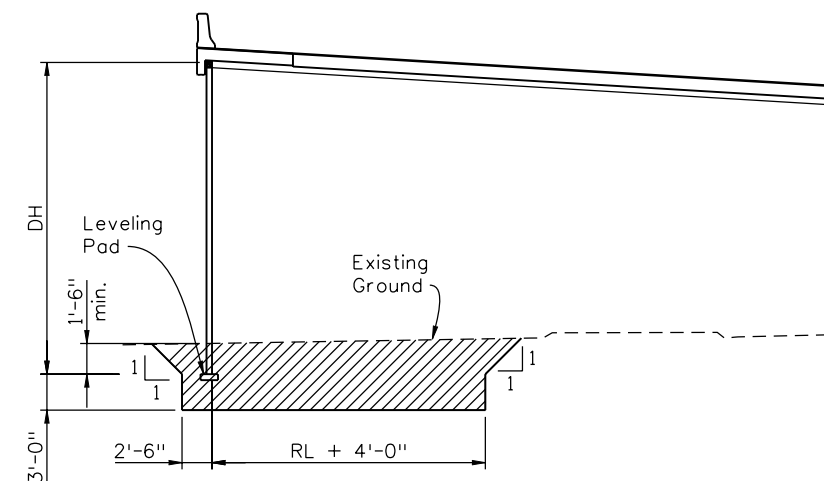
DH = Design Height (ft.)
 RL = Reinforcing Length (ft.)

LEGEND

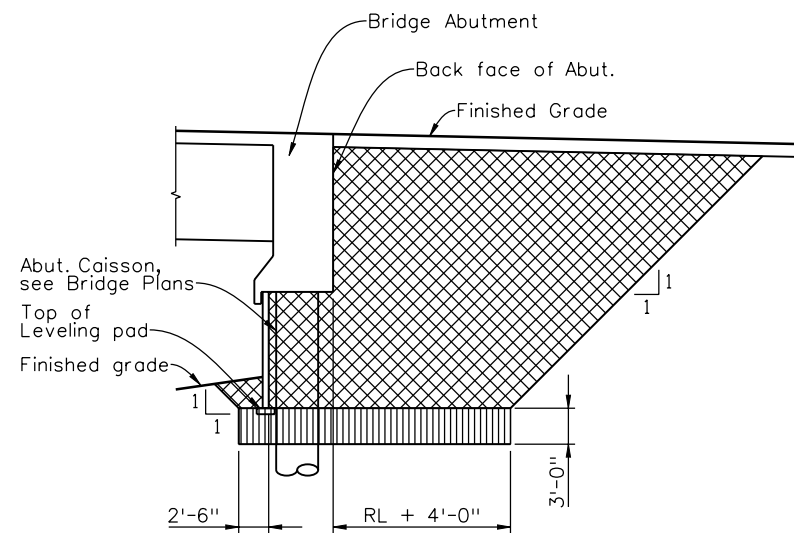
-  Pay Limit for Structure (Class 1) Backfill
-  Pay Limits for Mechanically Stabilized Earth
-  Pay Limit for Structure Excavation
-  Aggregate Base Course (Class 6)



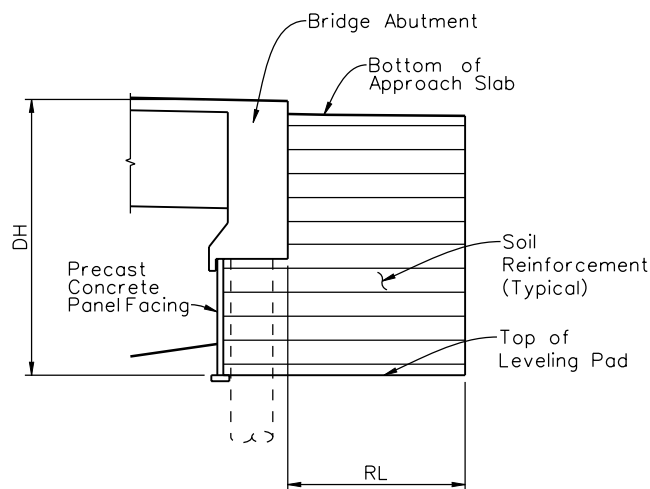
TYPICAL MECHANICAL REINFORCEMENT OF SOIL



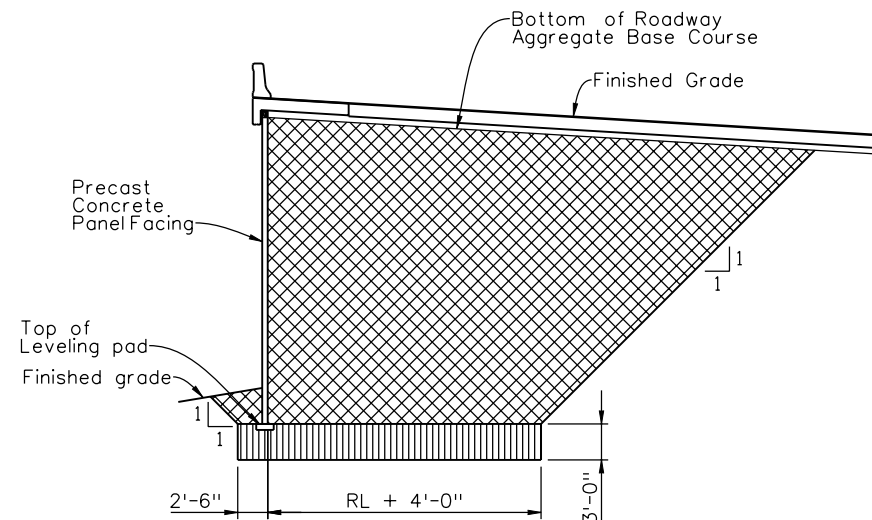
TYPICAL STRUCTURE EXCAVATION



TYPICAL STRUCTURE BACKFILL AT BRIDGE ABUTMENT

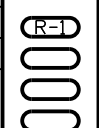


TYPICAL MECHANICAL REINFORCEMENT OF SOIL AT BRIDGE ABUTMENT




TYPICAL STRUCTURE BACKFILL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PRS	9/10	RAD	9/10	CAJ	10/10
WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By

Print Date: 11/19/2010	
File Name: 16311WALL_PH2_Excav01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

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Revised:
Void:

I-25/SANTA FE INTERCHANGE PERMANENT WALL EXCAVATION & BACKFILL DETAILS (1 OF 2)			
Designer:	P. STEIN	Structure Numbers:	MULTIPLE
Detailer:	R. DILLON	Sheet Subset:	WALL
Sheet Subset: WALL		Subset Sheets:	W42 of 67

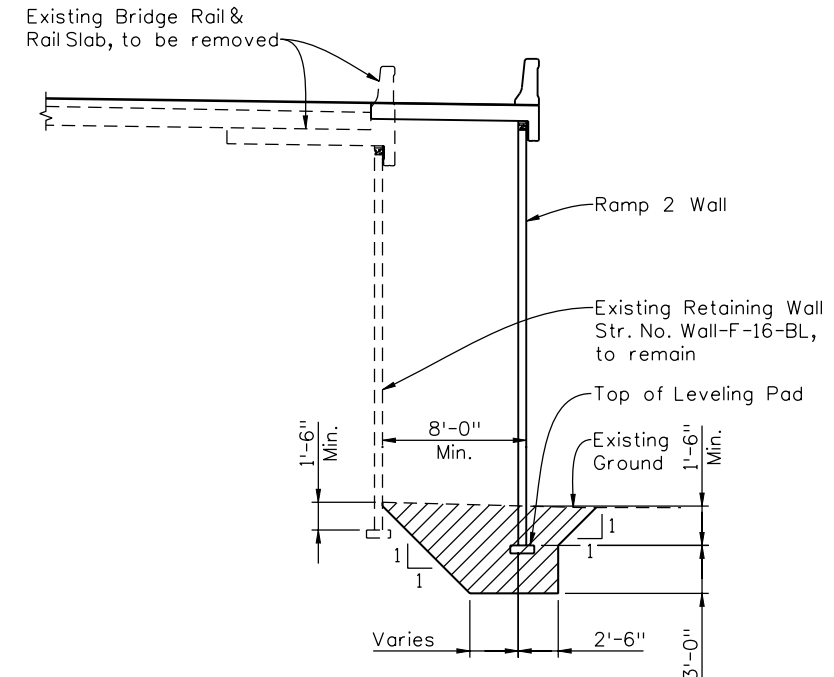
Project No./Code
BR 0252-407
17783
Sheet Number 316 A

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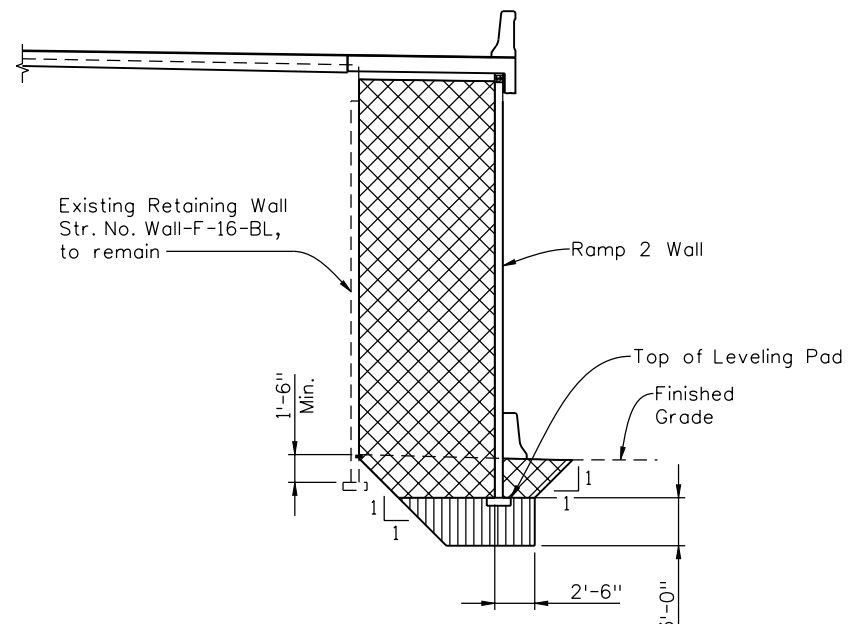
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Revision Dates	(Preliminary Stage Only)

Design	Quantity	Initial	Date	Detail	Initial	Date
Designed By	Quantity By	PR	03/10	Checked By	PR	03/10
Checked By	Checked By					



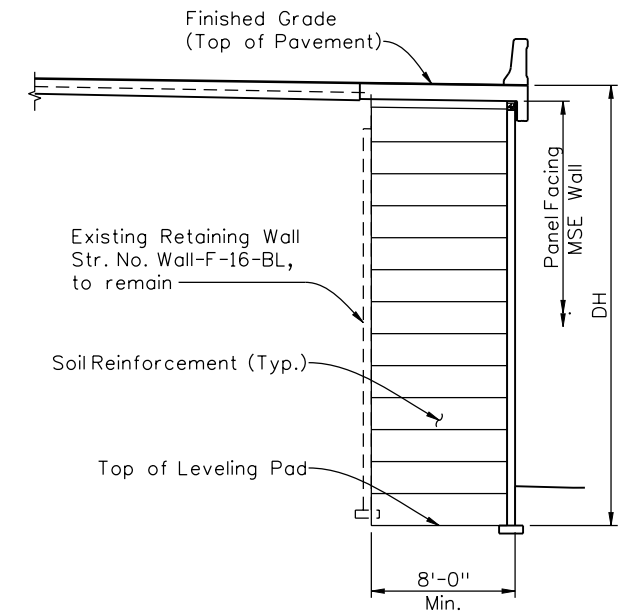
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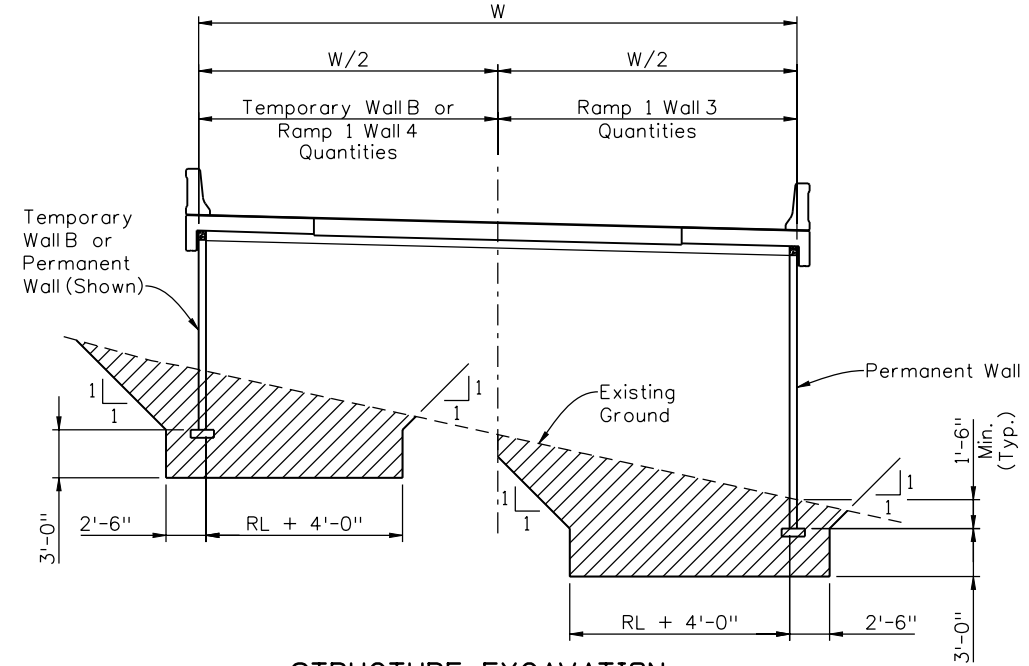
STRUCTURE BACKFILL

RAMP 2 WALL

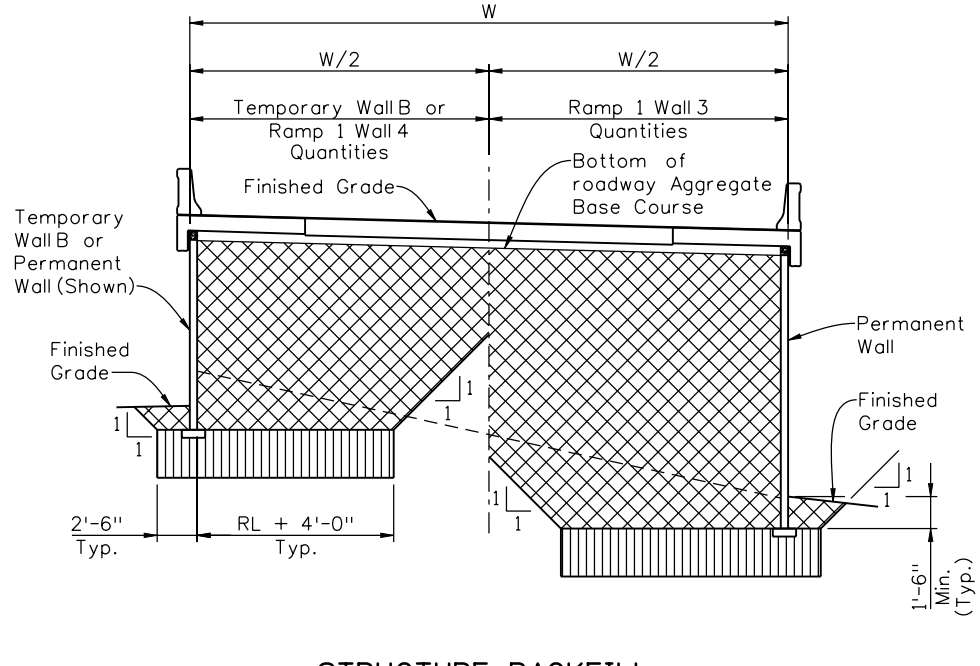
(Sections apply to Ramp 2 Wall from Sta. 0+20.1 to 5+90.8±)



MECHANICAL REINFORCEMENT OF SOIL



STRUCTURE EXCAVATION



STRUCTURE BACKFILL

RAMP 1 WALL

(Sections apply to Ramp 1 Wall from Sta. 0+45.2 to 3+05.2±)

ABBREVIATIONS

- DH = Design Height (ft.)
- RL = Reinforcing Length (ft.)

LEGEND

- Pay Limit for Structure (Class 1) Backfill
- Pay Limits for Mechanically Stabilized Earth
- Pay Limit for Structure Excavation
- Aggregate Base Course (Class 6)

Print Date: 10/22/2010	0000
File Name: 16311WALL_PH2_Excav01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
Unit Information Unit Leader Initials	

Sheet Revisions		
Date:	Comments	Init.

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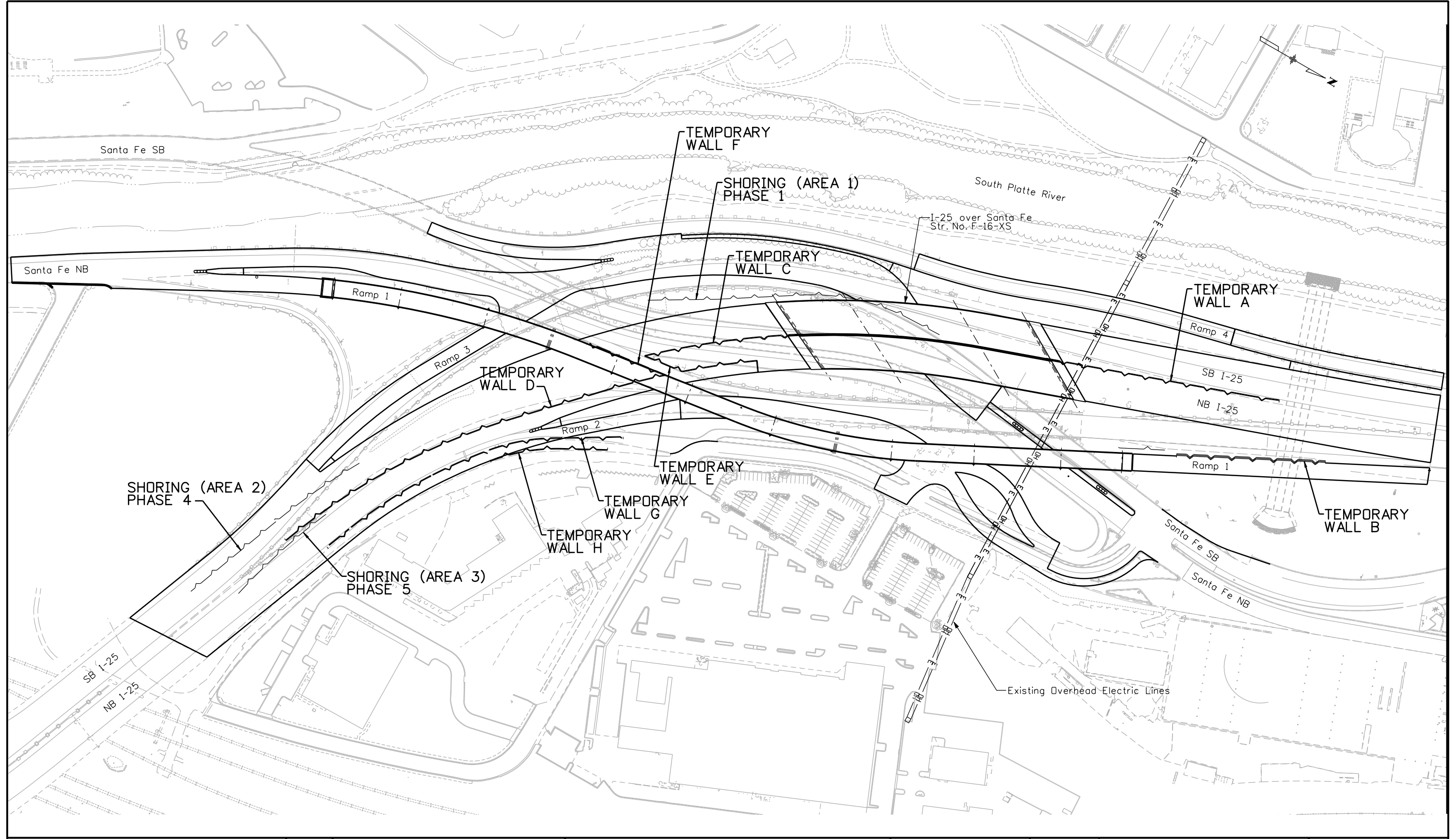
I-25/SANTA FE INTERCHANGE PERMANENT WALL EXCAVATION & BACKFILL DETAILS (2 OF 2)			
Designer:	P. STEIN	Structure Numbers:	MULTIPLE
Detailer:	R. DILLON	Sheet Subset:	WALL
Sheet Subset: WALL		Subset Sheets:	W43 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 317

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Revision Dates		(Preliminary Stage Only)	
DATE	INITIAL	DATE	INITIAL

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



Print Date: 10/22/2010
 File Name: 16311WALL_PH2_KeyMapTemp.dgn
 Horiz. Scale: 1:200 Vert. Scale: As Noted
 Unit Information Unit Leader Initials


Sheet Revisions		
Date:	Comments	Init.

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I-25/SANTA FE INTERCHANGE
SHORING & TEMPORARY RETAINING WALL
KEY MAP
 Designer: P. STEIN Structure
 Detailer: R. DILLON Numbers
 Sheet Subset: MAP Subset Sheets: W44 of 67

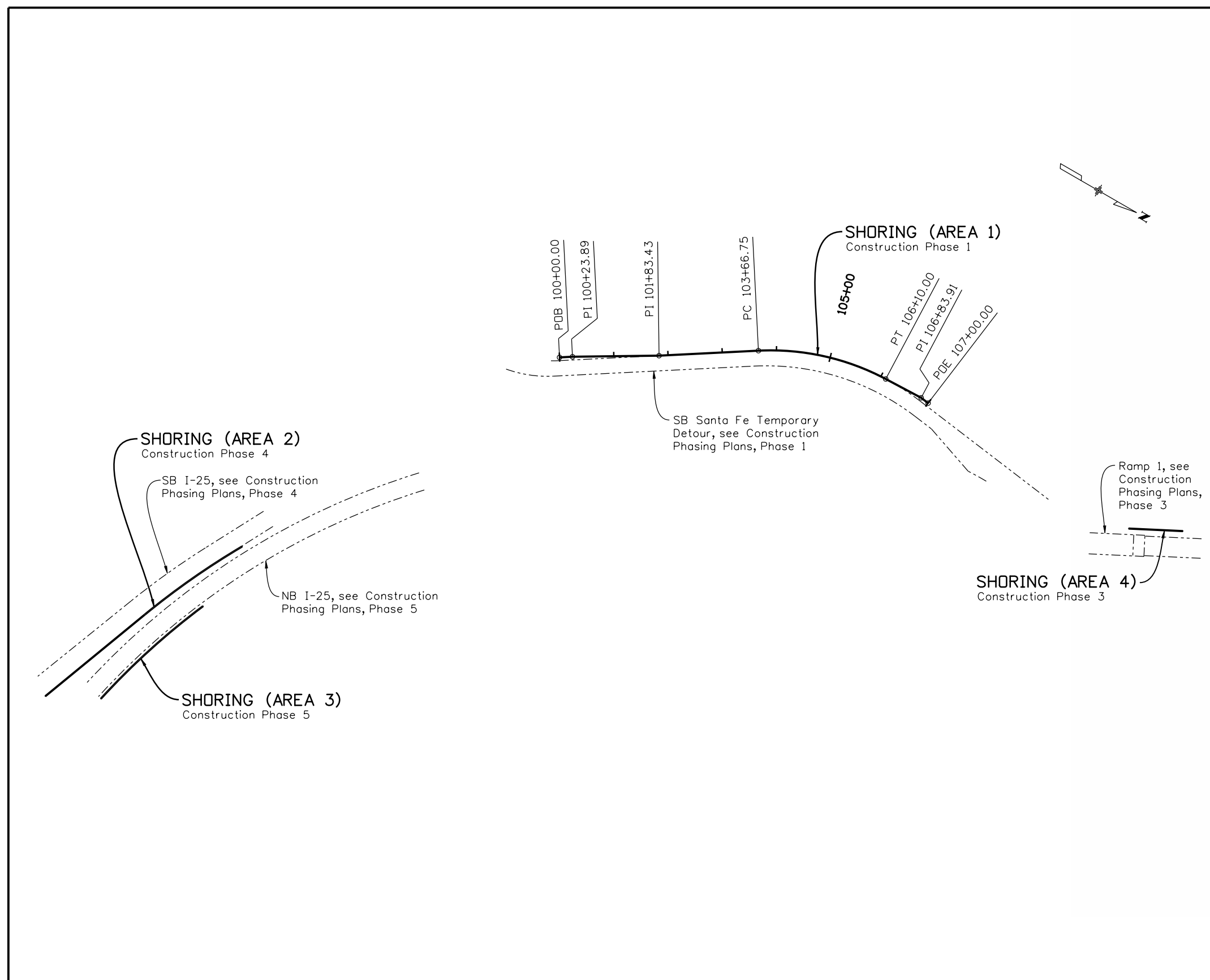
Project No./Code
 BR 0252-407
 17783
 Sheet Number **318**


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Revision Dates		Quantities	
DATE	INITIAL	DATE	INITIAL

Design		Detail		Quantities	
DESIGNED BY	DATE	INITIAL	DATE	INITIAL	DATE



Horizontal Control Line Geometry Shoring (Area 1)			
Element	Station	Northing	Easting
Element: Linear			
POB	-	100+00.00	680033.3262 960945.5268
PI	-	100+23.89	680053.3890 960932.5615
Tangential Direction:	N 32°52'18.71" W		
Tangential Length:	23.89		
Element: Linear			
PI	-	100+23.89	680053.3890 960932.5615
PI	-	101+83.43	680190.5508 960851.0669
Tangential Direction:	N 30°42'59.91" W		
Tangential Length:	159.55		
Element: Linear			
PI	-	101+83.43	680190.5508 960851.0669
PC	-	103+66.75	680344.5189 960751.5678
Tangential Direction:	N 32°52'18.71" W		
Tangential Length:	183.32		
Element: Circular			
PC	-	103+66.75	680344.5189 960751.5678
PI	-	104+91.40	680449.2077 960683.9144
CC	-		680589.8473 961131.1965
PT	-	106+10.00	680573.7753 960679.4823
Radius:	452		
Delta:	30°50'02.87" Right		
Degree of Curvature (Arc):	12°40'33.81"		
Length:	243.25		
Tangent:	124.65		
Tangent Direction:	N 32°52'18.71" W		
Tangent Direction:	N 2°02'15.83" W		
Element: Linear			
PT	-	106+10.00	680573.7753 960679.4823
PI	-	106+83.91	680647.6431 960676.8541
Tangential Direction:	N 2°02'15.83" W		
Tangential Length:	73.91		
Element: Linear			
PI	-	106+83.91	680647.6431 960676.8541
POE	-	107+00.00	680663.5917 960678.9477
Tangential Direction:	N 7°28'43.40" E		
Tangential Length:	16.09		

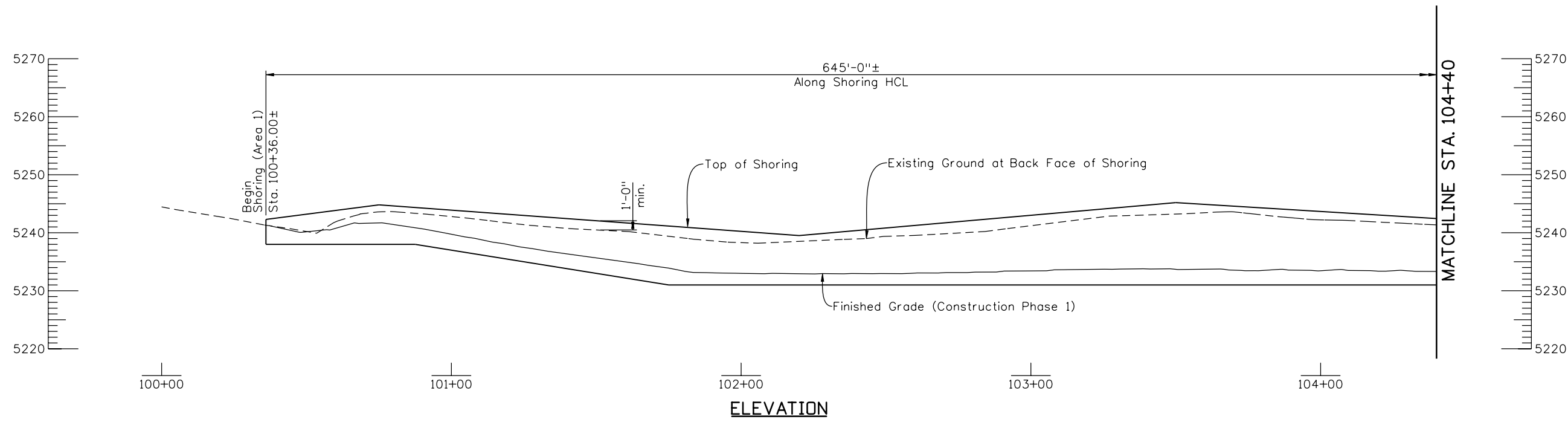
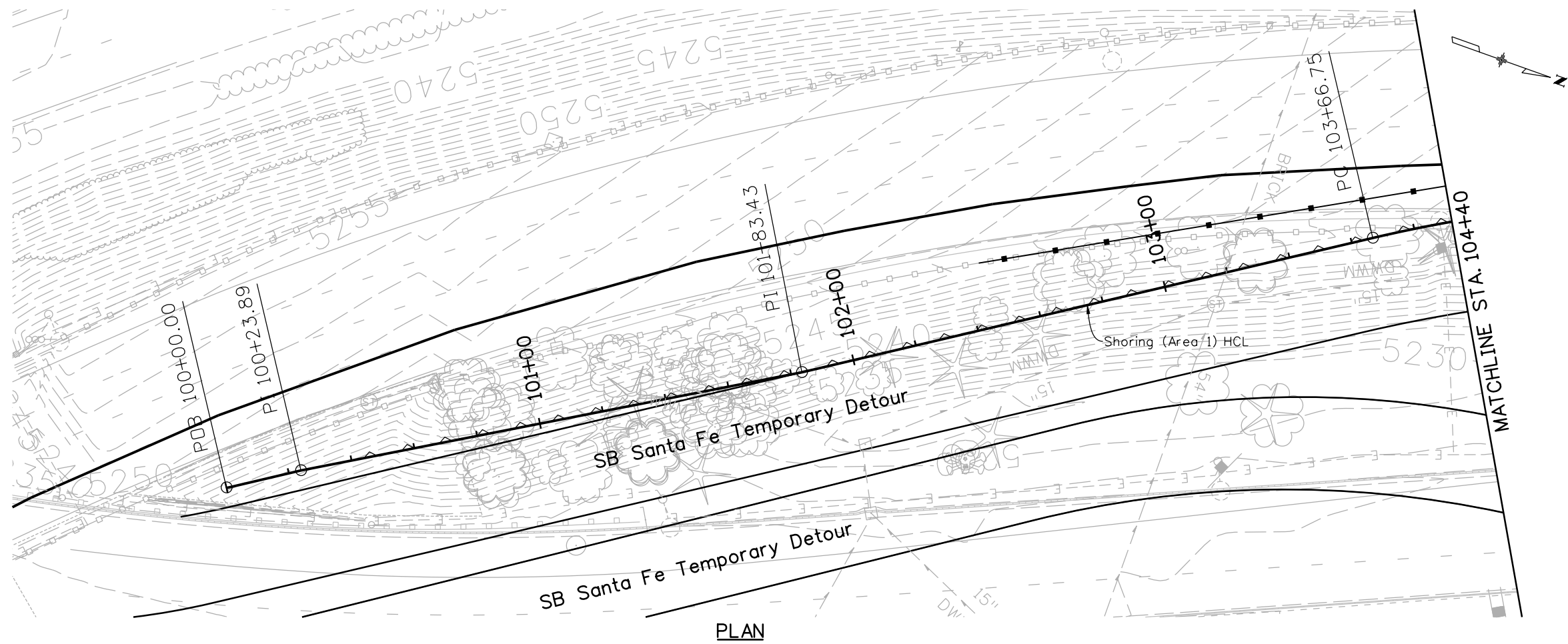
Print Date: 10/22/2010		Sheet Revisions Date: Comments Init.			Colorado Department of Transportation 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	As Constructed No Revisions: Revised: Void:	I-25/SANTA FE INTERCHANGE SHORING HCL GEOMETRIC PLAN & HORIZONTAL CONTROL LINE DATA			Project No./Code BR 0252-407 17783 Sheet Number 319
File Name: 16311WALL_PH2_WallGeom03.dgn		Unit Information	Unit Leader Initials				Designer: P. STEIN Detailer: R. DILLON Sheet Subset: WALL	Structure Numbers MULTIPLE Subset Sheets: W45 of 67		
Horiz. Scale: 1:200 Vert. Scale: As Noted Unit Information Unit Leader Initials										

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Revision Dates		(Preliminary Stage Only)	
Design	Detail	Quantity	Quantity
INITIAL DATE	INITIAL DATE	INITIAL	INITIAL
DESIGNED BY	DESIGNED BY	QUANTITIES BY	QUANTITIES BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY

Design		Detail		Quantity	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY	CHECKED BY



Print Date: 10/22/2010
 File Name: 16311WALL_PH2_ShoringArea1-GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation


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**I-25/SANTA FE INTERCHANGE
 SHORING (AREA 1)
 GENERAL LAYOUT (1 OF 2)**

Designer:	P. STEIN	Structure Numbers	
Detailer:	R. DILLON		
Sheet Subset:	WALL	Subset Sheets:	W46 of 67

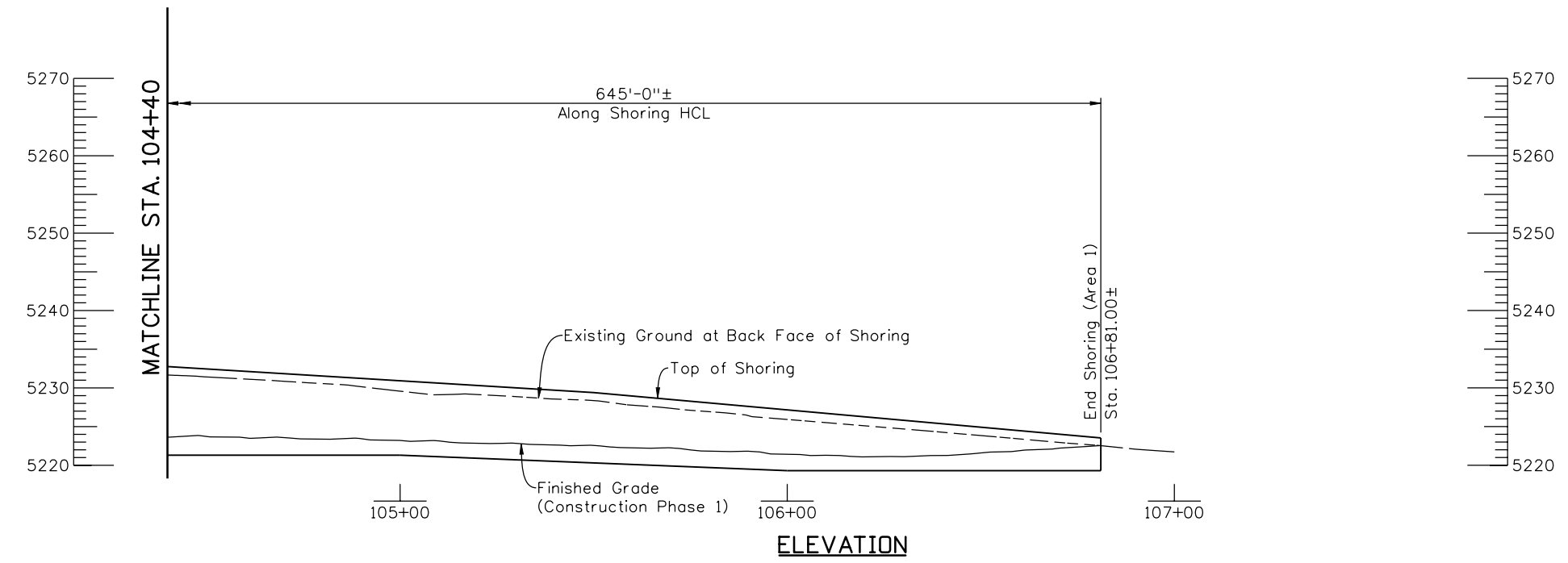
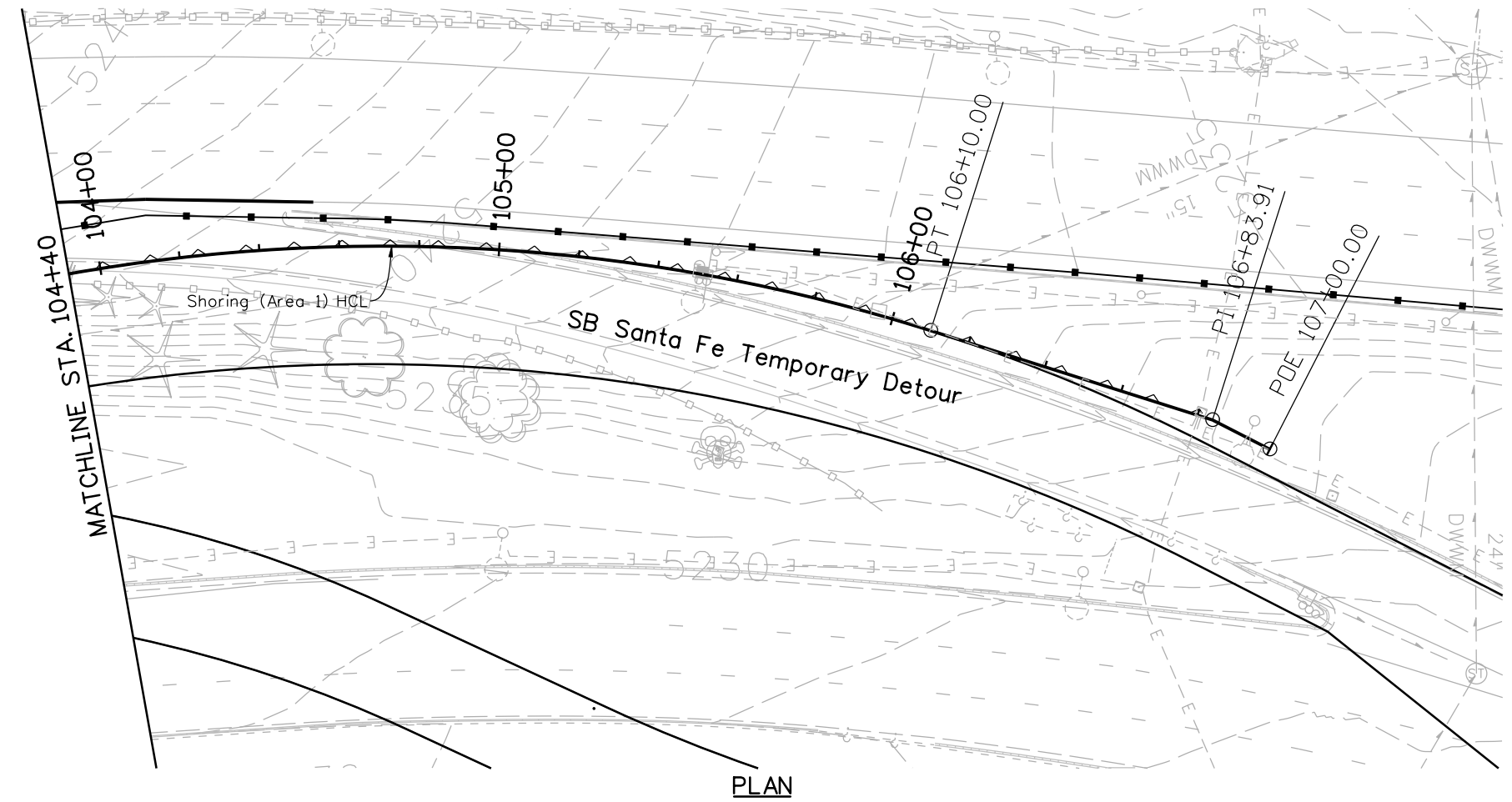
Project No./Code
 BR 0252-407
 17783
Sheet Number 320


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Revision Dates		(Preliminary Stage Only)	
Design	Detail	Quantities	
INITIAL	INITIAL	INITIAL	DATE
Designed By	Detailed By	Checked By	Checked By
Checked By	Checked By	Checked By	Checked By

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
PRS	03/10	RAD	03/10		
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



Shoring (Area 1)
 Approx. Area = 6,100 S.F.
 (For Information Only)

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_ShoringArea1-GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

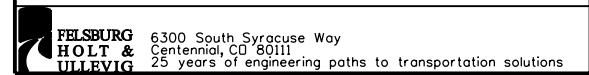
 2000 South Holly Street
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Region 6 **RLB**

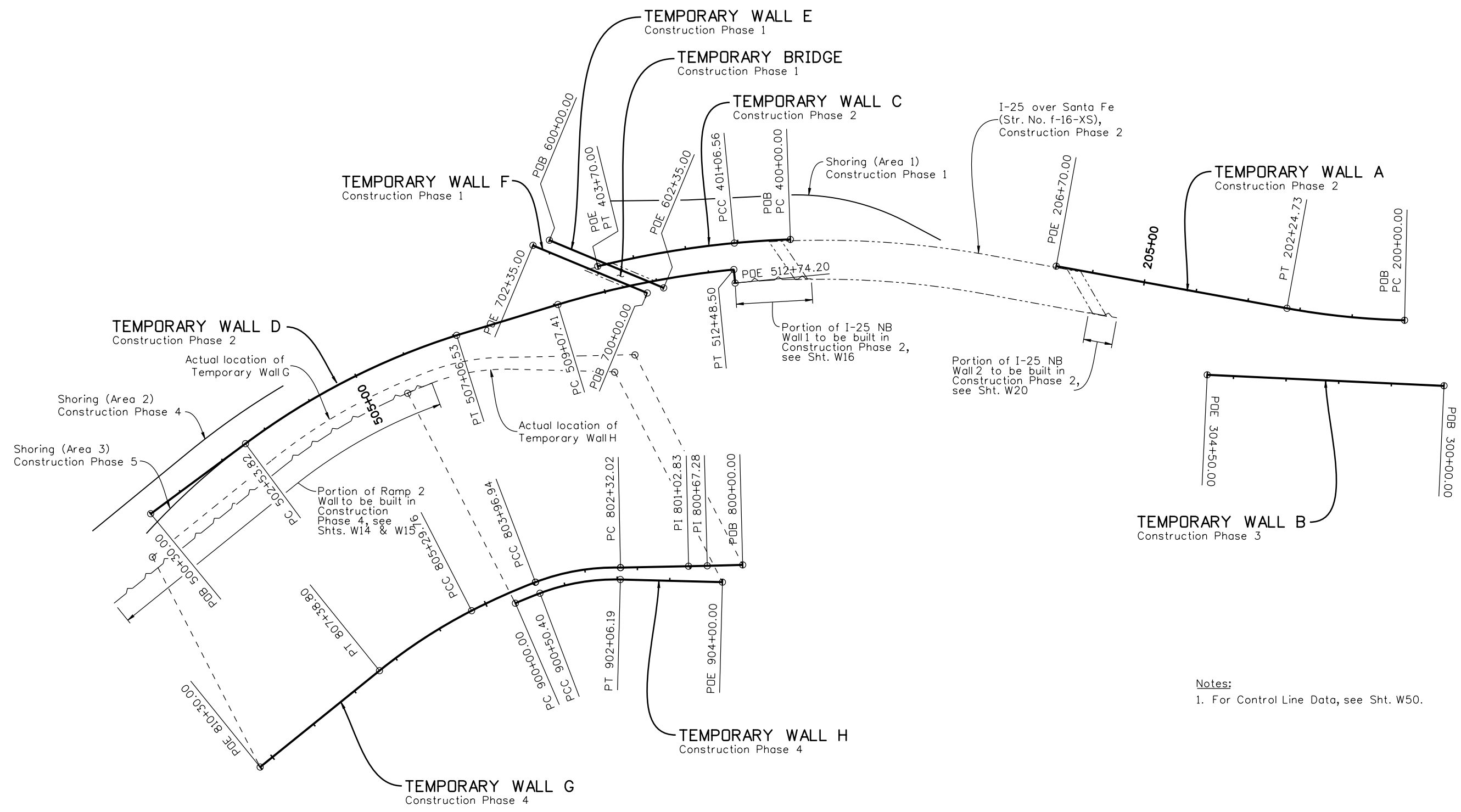
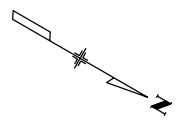
As Constructed
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 Revised:
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**I-25/SANTA FE INTERCHANGE
 SHORING (AREA 1)
 GENERAL LAYOUT (2 OF 2)**

Designer:	P. STEIN	Structure Numbers	
Detailer:	R. DILLON	Structure Numbers	
Sheet Subset:	WALL	Subset Sheets:	W47 of 67

Project No./Code
 BR 0252-407
 17783
Sheet Number 321





Notes:
1. For Control Line Data, see Sht. W50.

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	9/10	Checked By	9/10	Checked By	10/10
Checked By	WJM	Checked By	WJM	Checked By	MJE

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_WallGeom04.dgn
 Horiz. Scale: 1:200 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

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Void:

I-25/SANTA FE INTERCHANGE TEMPORARY WALL HCL GEOMETRIC PLAN		
Designer:	P. STEIN	Structure Numbers
Detailer:	R. DILLON	
Sheet Subset:	WALL	Subset Sheets: W49 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 323 A

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By	10/10	WJM	10/10	Checked By	MJE
				Checked By	

Station	Elevation
201+50.00	5237.01
201+60.00	5237.40
201+70.00	5237.80
201+80.00	5238.20
201+90.00	5238.62
202+00.00	5239.06
202+10.00	5239.51
202+20.00	5239.96
202+30.00	5240.41
202+40.00	5240.86
202+50.00	5241.30
202+60.00	5241.75
202+70.00	5242.19
202+80.00	5242.64
202+90.00	5243.09
203+00.00	5243.57
203+10.00	5244.04
203+20.00	5244.50
203+30.00	5244.95
203+40.00	5245.40
203+50.00	5245.81
203+60.00	5246.19
203+70.00	5246.56
203+80.00	5246.91
203+90.00	5247.26
204+00.00	5247.60
204+10.00	5247.93
204+20.00	5248.24
204+30.00	5248.55
204+40.00	5248.85
204+50.00	5249.14
204+60.00	5249.41
204+70.00	5249.68
204+80.00	5249.93
204+90.00	5250.18
205+00.00	5250.42
205+10.00	5250.64
205+20.00	5250.86
205+30.00	5251.08
205+40.00	5251.31
205+50.00	5251.53
205+60.00	5251.75
205+70.00	5251.90
205+80.00	5252.05
205+90.00	5252.22
206+00.00	5252.37
206+10.00	5252.52
206+20.00	5252.68
206+30.00	5252.83
206+40.00	5252.98
206+49.88	5253.14
206+49.88	5238.95
206+57.43	5238.95

Station	Elevation
301+26.00	5236.36
301+30.00	5236.51
301+40.00	5236.86
301+50.00	5237.22
301+60.00	5237.58
301+70.00	5237.93
301+80.00	5238.28
301+90.00	5238.64
302+00.00	5238.99
302+10.00	5239.34
302+20.00	5239.69
302+30.00	5240.04
302+40.00	5240.39
302+50.00	5240.73
302+60.00	5241.08
302+70.00	5241.42
302+80.00	5241.77
302+90.00	5242.12
303+00.00	5242.46
303+10.00	5242.81
303+20.00	5243.16
303+30.00	5243.50
303+40.00	5243.85
303+50.00	5244.19
303+60.00	5244.54
303+70.00	5244.89
303+80.00	5245.23
303+90.00	5245.58
304+00.00	5245.93
304+10.00	5246.27
304+20.00	5246.62
304+30.00	5246.96
304+40.00	5247.31
304+46.00	5247.52

Station	Elevation
400+11.97	5244.47
400+19.67	5244.47
400+19.67	5257.71
400+30.00	5257.65
400+40.00	5257.59
400+50.00	5257.53
400+60.00	5257.47
400+70.00	5257.38
400+80.00	5257.31
400+90.00	5257.23
401+00.00	5257.16
401+10.00	5257.09
401+20.00	5256.99
401+30.00	5256.89
401+40.00	5256.80
401+50.00	5256.71
401+60.00	5256.61
401+70.00	5256.48
401+80.00	5256.37
401+90.00	5256.25
402+00.00	5256.13
402+10.00	5256.01
402+20.00	5255.87
402+30.00	5255.74
402+40.00	5255.60
402+50.00	5255.46
402+60.00	5255.32
402+70.00	5255.16
402+80.00	5255.01
402+90.00	5254.85
403+00.00	5254.69
403+10.00	5254.53
403+20.00	5254.35
403+30.00	5254.17
403+40.00	5253.99
403+50.00	5253.80
403+52.47	5253.76

Station	Elevation
500+90.00	5272.13
501+00.00	5271.69
501+10.00	5271.24
501+20.00	5270.79
501+30.00	5270.31
501+40.00	5269.79
501+50.00	5269.27
501+60.00	5268.74
501+70.00	5268.20
501+80.00	5267.64
501+90.00	5267.06
502+00.00	5266.48
502+10.00	5265.90
502+20.00	5265.32
502+30.00	5264.75
502+40.00	5264.18
502+50.00	5263.61
502+60.00	5263.08
502+70.00	5262.62
502+80.00	5262.17
502+90.00	5261.72
503+00.00	5261.26
503+10.00	5260.81
503+20.00	5260.36
503+30.00	5259.90
503+40.00	5259.45
503+50.00	5259.00
503+60.00	5258.55
503+70.00	5258.09
503+80.00	5257.64
503+90.00	5257.20
504+00.00	5256.77
504+10.00	5256.35
504+20.00	5255.94
504+30.00	5255.55
504+40.00	5255.16
504+50.00	5254.78
504+60.00	5254.42
504+70.00	5254.06
504+80.00	5253.72
504+90.00	5253.39
505+00.00	5253.07
505+10.00	5252.76
505+20.00	5252.46
505+30.00	5252.17
505+40.00	5251.89
505+50.00	5251.62
505+60.00	5251.37
505+70.00	5251.13
505+80.00	5250.89
505+90.00	5250.67
506+00.00	5250.46
506+10.00	5250.25
506+20.00	5250.06
506+30.00	5249.88
506+40.00	5249.71
506+50.00	5249.55
506+60.00	5249.40

Station	Elevation
506+70.00	5249.27
506+80.00	5249.14
506+90.00	5249.03
507+00.00	5248.92
507+10.00	5248.82
507+20.00	5248.73
507+30.00	5248.65
507+40.00	5248.58
507+50.00	5248.53
507+60.00	5248.48
507+70.00	5248.44
507+80.00	5248.41
507+90.00	5248.40
508+00.00	5248.39
508+10.00	5248.40
508+20.00	5248.41
508+30.00	5248.44
508+40.00	5248.47
508+50.00	5248.51
508+60.00	5248.57
508+70.00	5248.64
508+80.00	5248.74
508+90.00	5248.84
509+00.00	5248.94
509+10.00	5249.04
509+20.00	5249.19
509+30.00	5249.31
509+40.00	5249.49
509+50.00	5249.64
509+60.00	5249.78
509+70.00	5249.95
509+80.00	5250.16
509+90.00	5250.35
510+00.00	5250.53
510+10.00	5250.70
510+20.00	5250.91
510+30.00	5251.10
510+40.00	5251.28
510+48.84	5251.43
510+86.17	5252.06
510+90.00	5252.15
511+00.00	5252.30
511+10.00	5252.45
511+20.00	5252.59
511+30.00	5252.74
511+40.00	5252.88
511+50.00	5253.03
511+60.00	5253.16
511+70.00	5253.29
511+80.00	5253.41
511+90.00	5353.52
512+00.00	5253.65
512+10.00	5253.76
512+20.00	5253.86
512+30.00	5253.95
512+40.00	5254.05
512+50.00	5254.06
512+60.00	5253.53

Station	Elevation
512+70.00	5253.01
512+74.20	5252.79

Station	Elevation
601+17.77	5249.49
601+20.00	5249.45
601+30.00	5249.25
601+40.00	5249.05
601+50.00	5248.85
601+60.00	5248.65
601+70.00	5248.45
601+80.00	5248.25
601+90.00	5248.05
602+00.00	5247.85
602+05.38	5247.74

Station	Elevation
700+35.48	5247.13
700+40.00	5247.22
700+50.00	5247.42
700+60.00	5247.62
700+70.00	5247.82
700+80.00	5248.02
700+90.00	5248.22
701+00.00	5248.42
701+10.00	5248.62
701+20.00	5248.81
701+22.23	5248.86
701+22.23	5253.58
701+30.00	5251.39
701+40.00	5249.20
701+50.00	5247.01
701+60.00	5244.82
701+70.00	5242.63
701+80.00	5240.43
701+90.00	5238.24
702+00.00	5236.05
702+10.00	5233.86
702+12.23	5233.37

Print Date: 12/21/2010
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 Unit Information Unit Leader Initials

Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS
1/3/11	Misc. Revisions	PRS

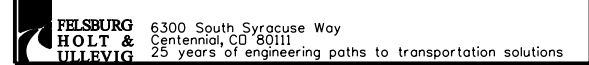
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
TEMPORARY WALL
TOP OF WALL ELEVATIONS (1 OF 2)
 Designer: P. STEIN Structure Numbers
 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W51 of 67

Project No./Code
 BR 0252-407
 17783
 Sheet Number **325 B**



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Revision Dates		(Preliminary Stage Only)	
NO.	DATE	BY	REASON

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
By	IO/10	By	IO/10	By	IO/10


Top of Wall Elevations Temporary Wall G	
Station	Elevation
801+00.00	5235.50
801+10.00	5235.71
801+20.00	5235.96
801+30.00	5236.25
801+40.00	5236.57
801+50.00	5236.93
801+60.00	5237.33
801+70.00	5237.79
801+80.00	5238.29
801+90.00	5238.83
802+00.00	5239.40
802+10.00	5240.00
802+20.00	5240.60
802+30.00	5241.20
802+40.00	5241.80
802+50.00	5242.41
802+60.00	5242.97
802+70.00	5243.51
802+80.00	5244.01
802+90.00	5244.46
803+00.00	5244.88
803+10.00	5245.27
803+20.00	5245.62
803+30.00	5245.94
803+40.00	5246.22
803+50.00	5246.48
803+60.00	5246.70
803+70.00	5246.89
803+80.00	5247.07
803+90.00	5247.26
804+00.00	5247.46
804+10.00	5247.65
804+20.00	5247.86
804+30.00	5248.07
804+40.00	5248.28
804+50.00	5248.50
804+60.00	5248.74
804+70.00	5248.98
804+80.00	5249.22
804+90.00	5249.48
805+00.00	5249.75
805+10.00	5250.00
805+20.00	5250.29
805+30.00	5250.59
805+40.00	5250.88
805+50.00	5251.18
805+60.00	5251.49
805+70.00	5251.80
805+80.00	5252.15
805+90.00	5252.55
806+00.00	5252.94
806+10.00	5253.34
806+20.00	5253.75
806+30.00	5254.16
806+40.00	5254.58
806+50.00	5255.01
806+60.00	5255.44
806+70.00	5255.88

Top of Wall Elevations Temporary Wall G	
Station	Elevation
806+80.00	5256.33
806+90.00	5256.78
807+00.00	5257.25
807+10.00	5257.72
807+20.00	5258.19
807+30.00	5258.66
807+40.00	5259.14
807+50.00	5259.61
807+60.00	5260.09
807+70.00	5260.57
807+80.00	5261.05
807+90.00	5261.51
808+00.00	5261.96

Top of Wall Elevations Temporary Wall H	
Station	Elevation
900+50.40	5246.04
900+60.00	5245.84
900+70.00	5245.65
900+80.00	5245.45
900+90.00	5245.24
901+00.00	5244.98
901+10.00	5244.70
901+20.00	5244.37
901+30.00	5244.01
901+40.00	5243.60
901+50.00	5243.17
901+60.00	5242.69
901+70.00	5242.23
901+80.00	5241.74
901+90.00	5241.22
902+00.00	5240.66
902+10.00	5240.10
902+20.00	5239.56
902+30.00	5239.02
902+40.00	5238.49
902+50.00	5238.00
902+60.00	5237.54
902+70.00	5237.13
902+80.00	5236.72
902+90.00	5236.32
903+00.00	5235.96
903+05.00	5235.79

Print Date: 10/22/2010
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 Unit Information Unit Leader Initials


Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
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Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TEMPORARY WALL
TOP OF WALL ELEVATIONS (2 OF 2)
 Designer: P. STEIN Structure Numbers:
 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W52 of 67

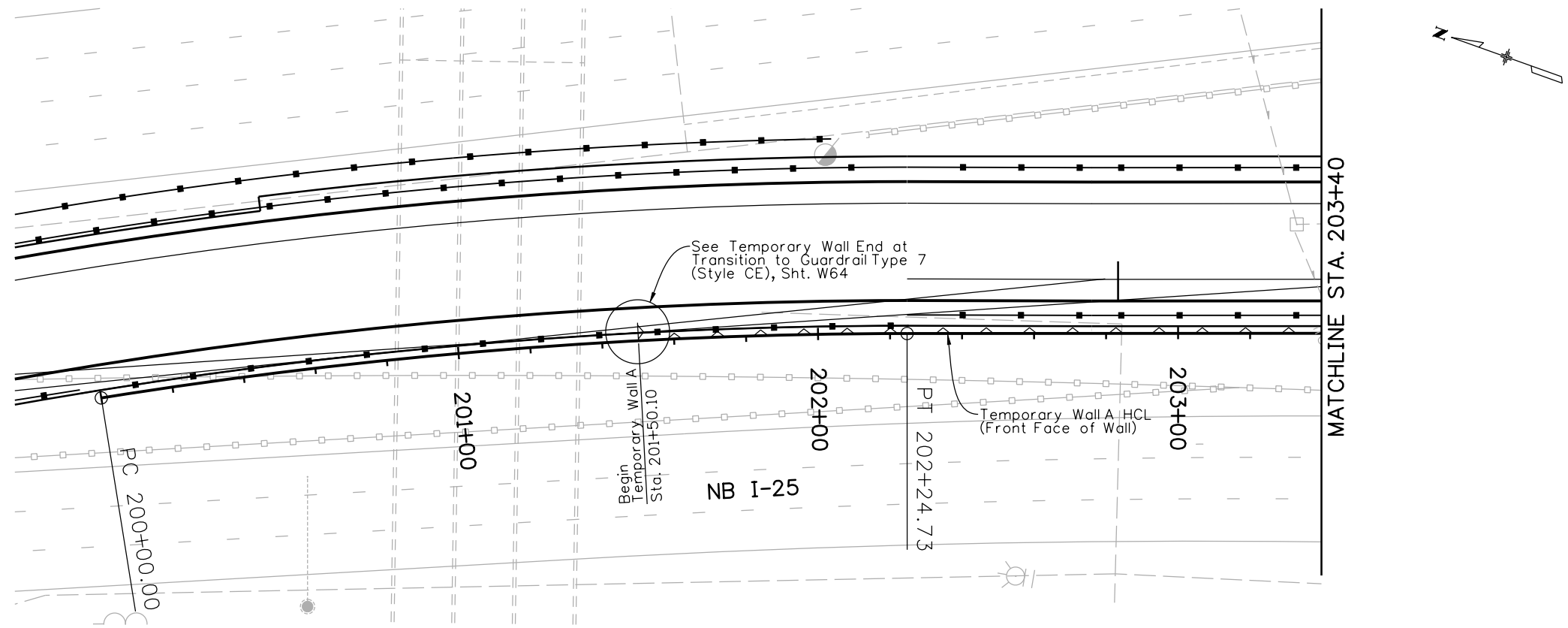
Project No./Code
BR 0252-407
17783
Sheet Number 326


 6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

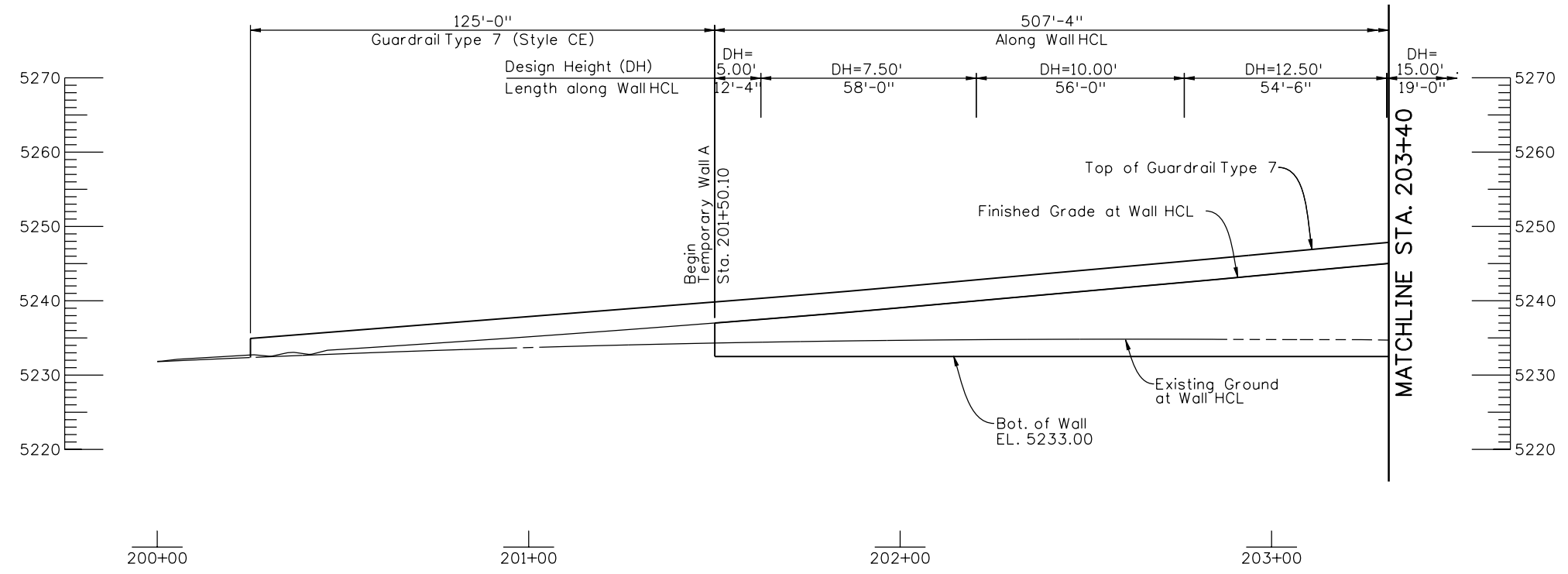
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Revision Dates		(Preliminary Stage Only)	

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09/10	WJM	09/10	WJM	09/10	WJM
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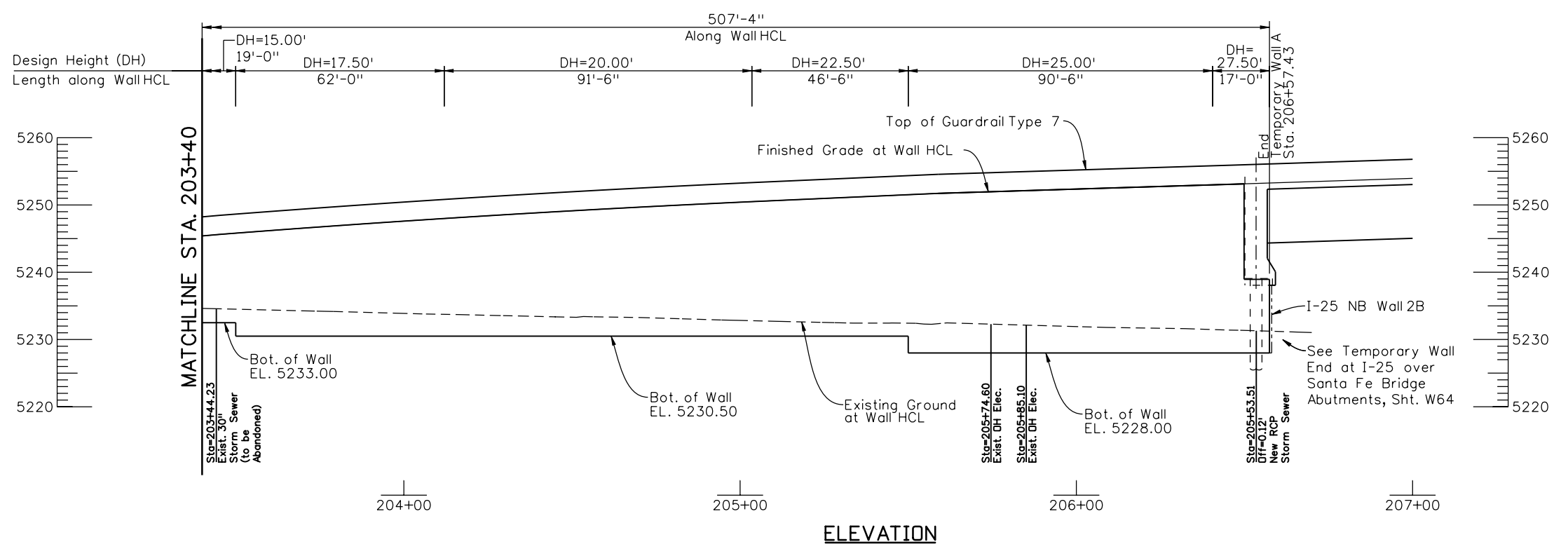
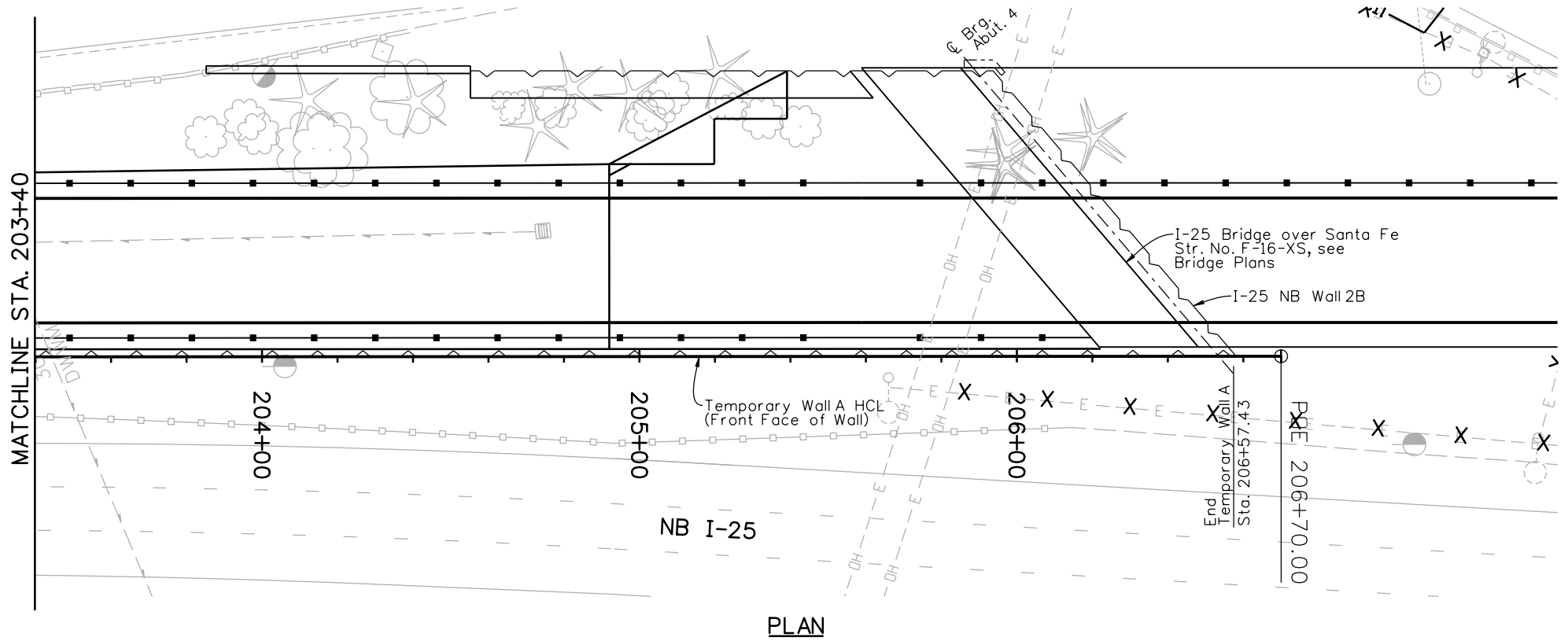
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Date:	Comments	Init.																	
1/3/11	Misc. Revisions	MJE																	

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Revision Dates		Quantities	
Design	Detail	INITIAL	DATE
Designed By	Checked By	INITIAL <td>DATE</td>	DATE
Checked By	Checked By	QUANTITIES BY	DATE
		Checked By	Checked By

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
DESIGNED BY	09/10	INITIAL	09/10	QUANTITIES BY	
CHECKED BY		CHECKED BY		CHECKED BY	



Print Date: 10/22/2010
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 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation


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Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL A
 GENERAL LAYOUT (2 OF 2)**

Designer:	P. STEIN	Structure Numbers	
Detailer:	R. DILLON	Subset Sheets:	W54 of 67

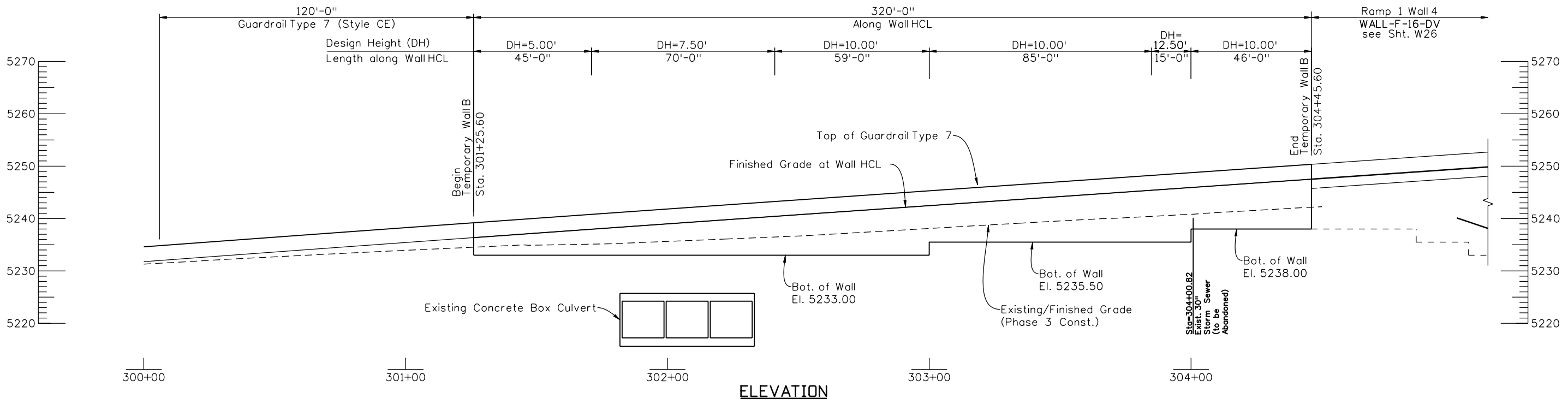
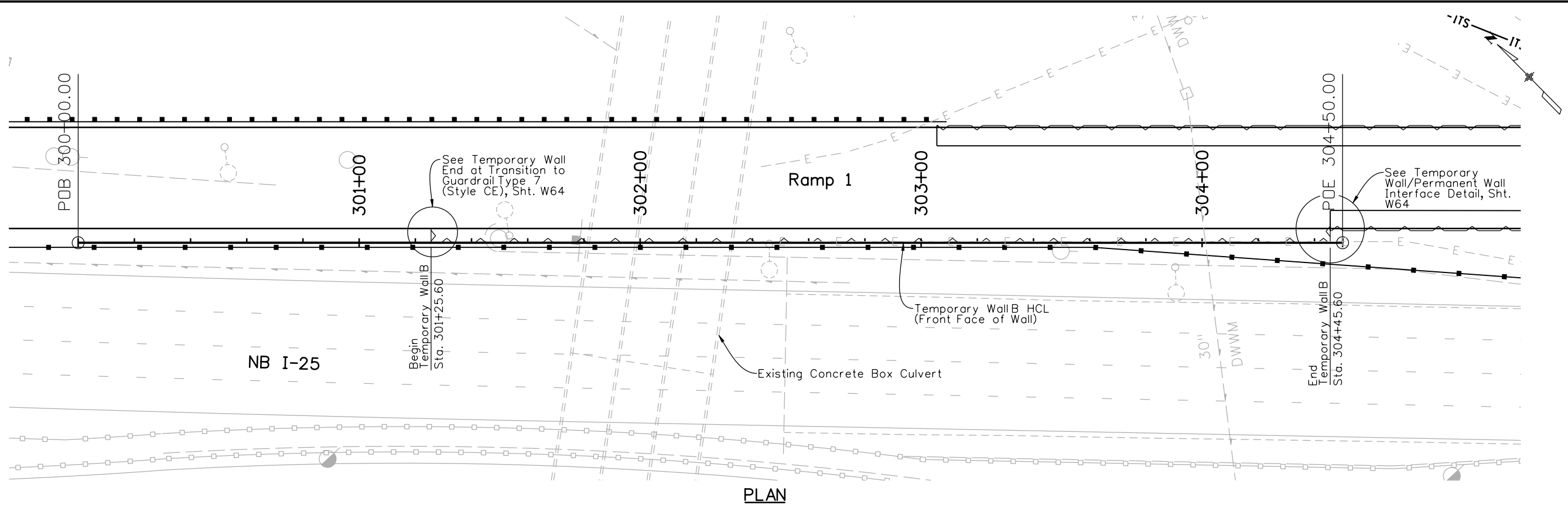
Project No./Code
 BR 0252-407
 17783
Sheet Number 328


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Revision Dates		(Preliminary Stage Only)	
NO.	DATE	BY	REASON

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE



Print Date: 10/22/2010
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 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

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Region 6 **RLB**

As Constructed
 No Revisions:
 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL B
 GENERAL LAYOUT**

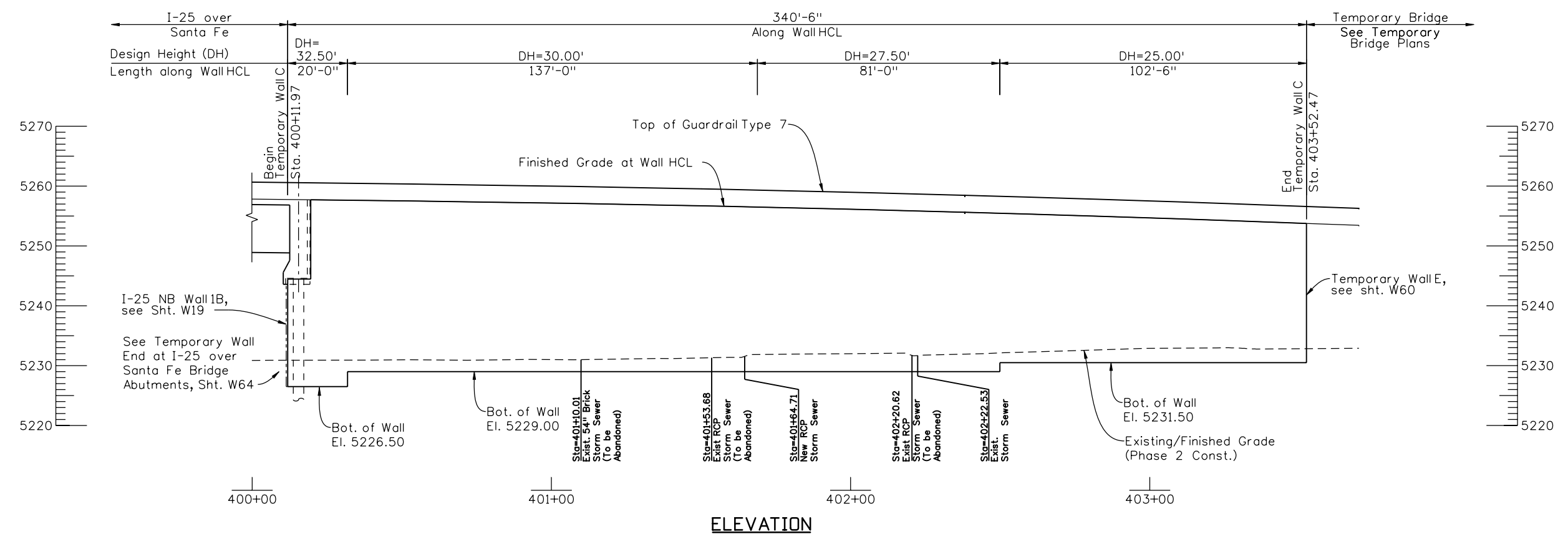
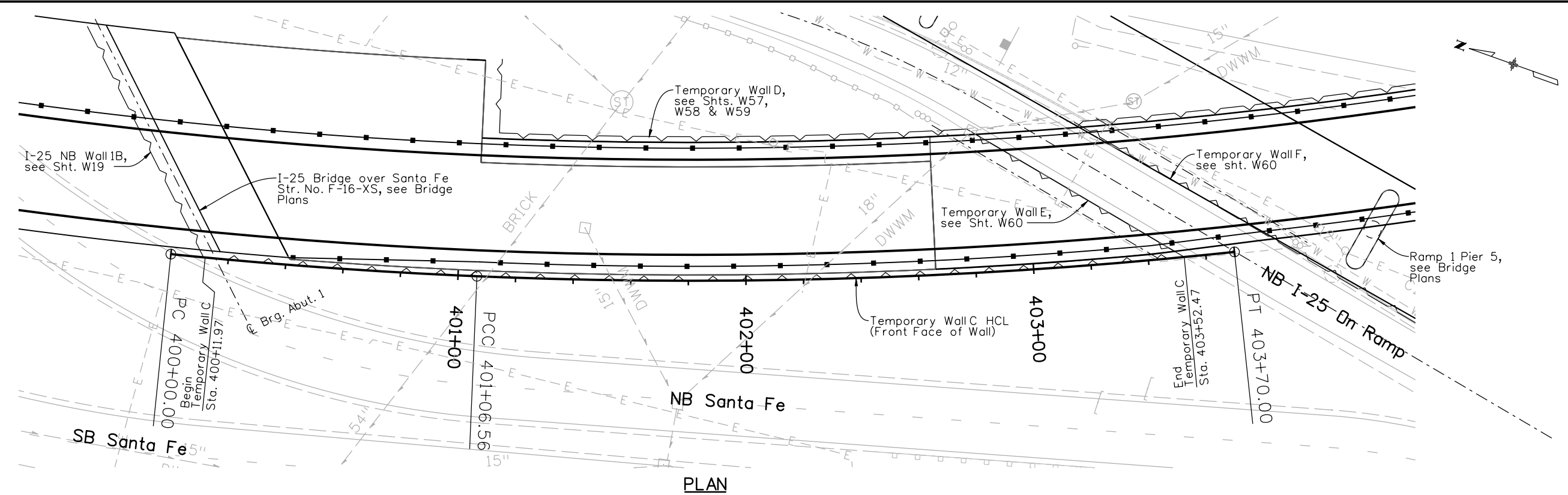
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 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W55 of 67

Project No./Code
 BR 0252-407
 17783
Sheet Number 329


 6300 South Syracuse Way
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Revision Dates		Quantities	
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INITIAL	INITIAL	INITIAL	INITIAL
DATE	DATE	DATE	DATE
Designed By	Detailed By	Checked By	Checked By
Checked By	Checked By	Checked By	Checked By



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 Unit Information Unit Leader Initials

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Date:	Comments	Init.

Colorado Department of Transportation

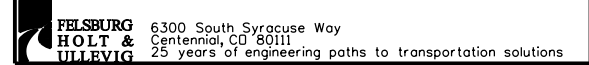
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

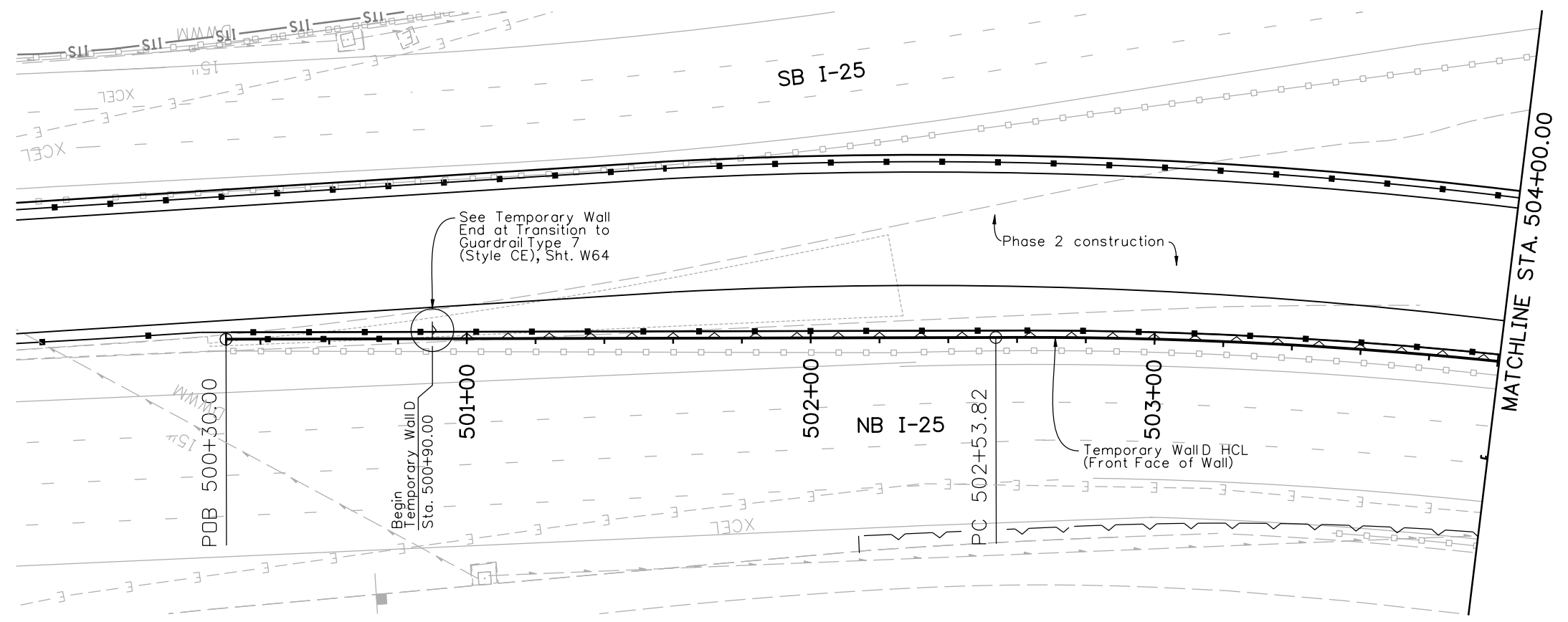
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**I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL C
 GENERAL LAYOUT**

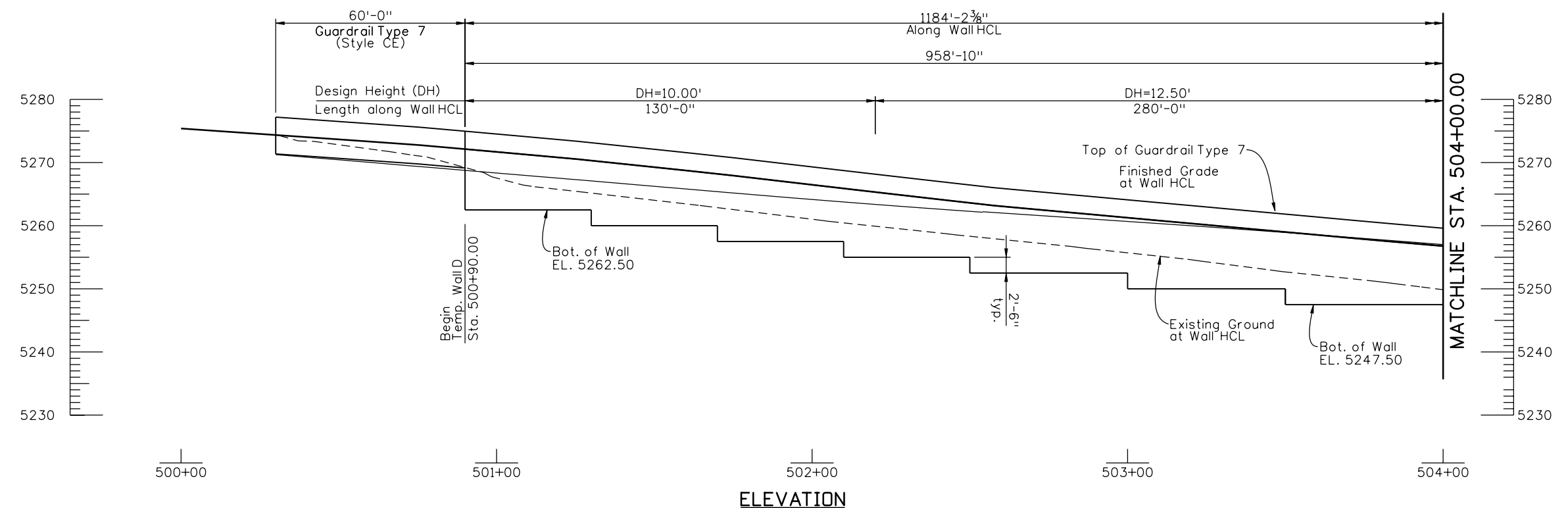
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 Detailer: R. DILLON
 Sheet Subset: WALL Subset Sheets: W56 of 67

Project No./Code
 BR 0252-407
 17783
Sheet Number 330





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ELEVATION

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WJM	10/10	Checked By	10/10	WJE	10/10
Checked By		Checked By		Checked By	

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 Unit Information Unit Leader Initials

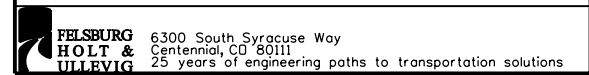
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12/3/10	Misc. Revisions	PRS

Colorado Department of Transportation
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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL D
 GENERAL LAYOUT (1 OF 3)
 Designer: P. STEIN
 Detailer: R. DILLON
 Sheet Subset: WALL

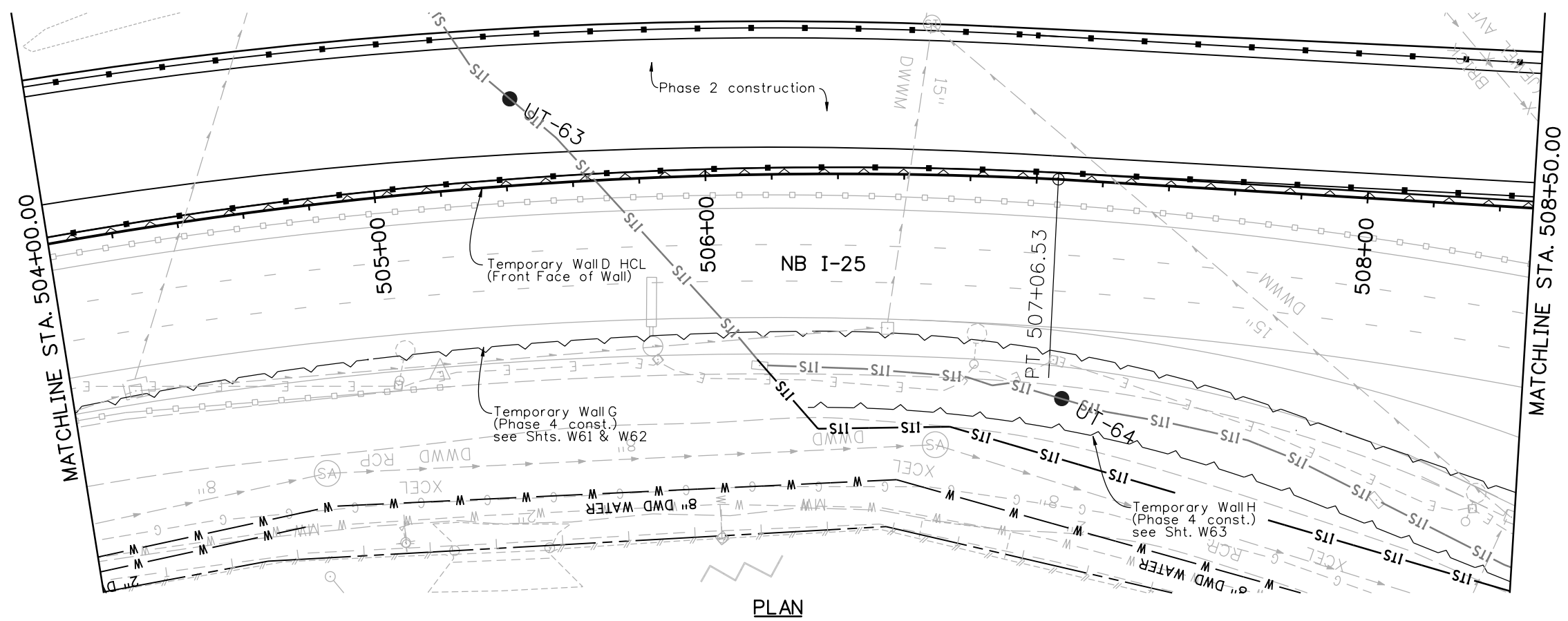
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 BR 0252-407
 17783
 Sheet Number 331 A



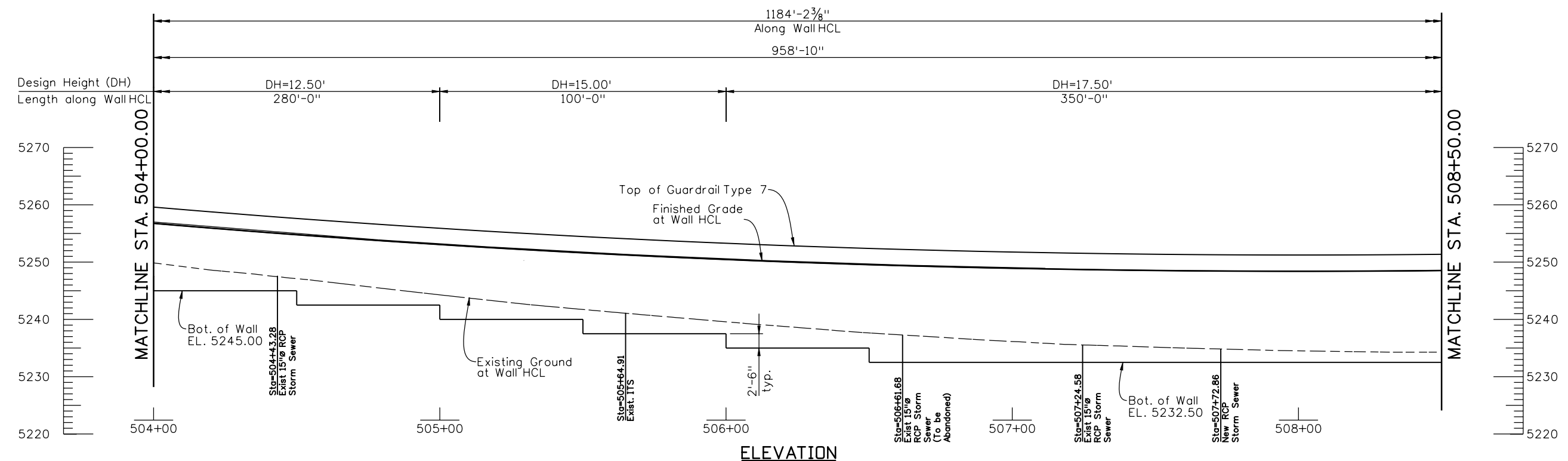
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WJM	10/10	WJM	10/10	MJE	10/10
Designed By	Detailed By	Checked By	Checked By	Checked By	Checked By
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



PLAN



ELEVATION

Print Date: 11/19/2010
 File Name: 16311WALL_PH2_TempWallD-GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

Colorado Department of Transportation

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 Region 6 RLB

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE
TEMPORARY WALL D
GENERAL LAYOUT (2 OF 3)

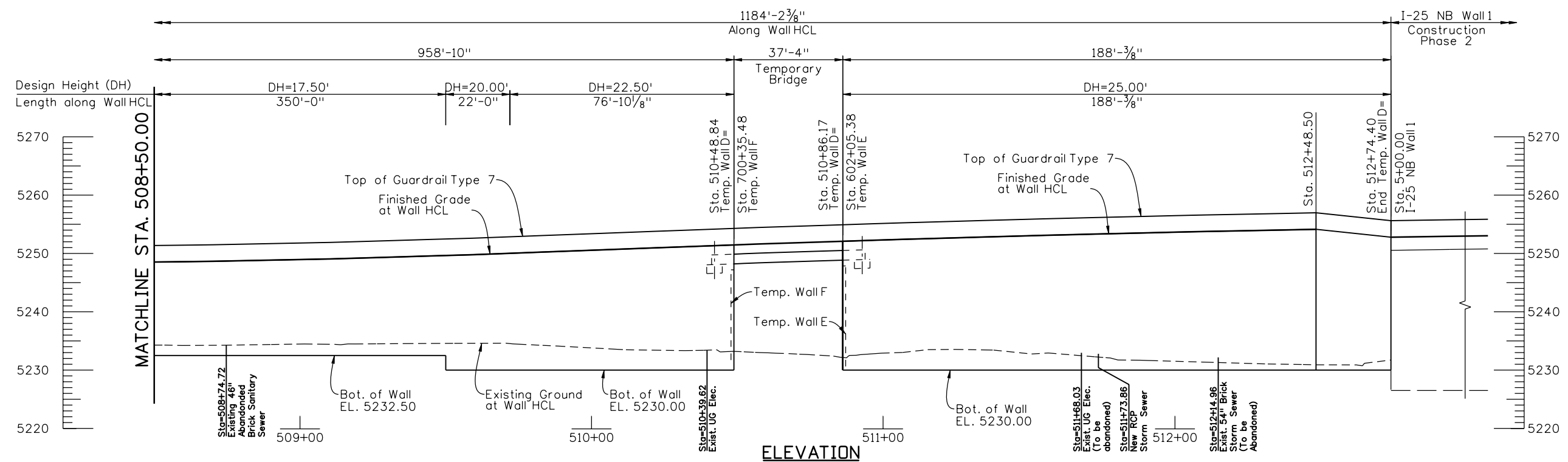
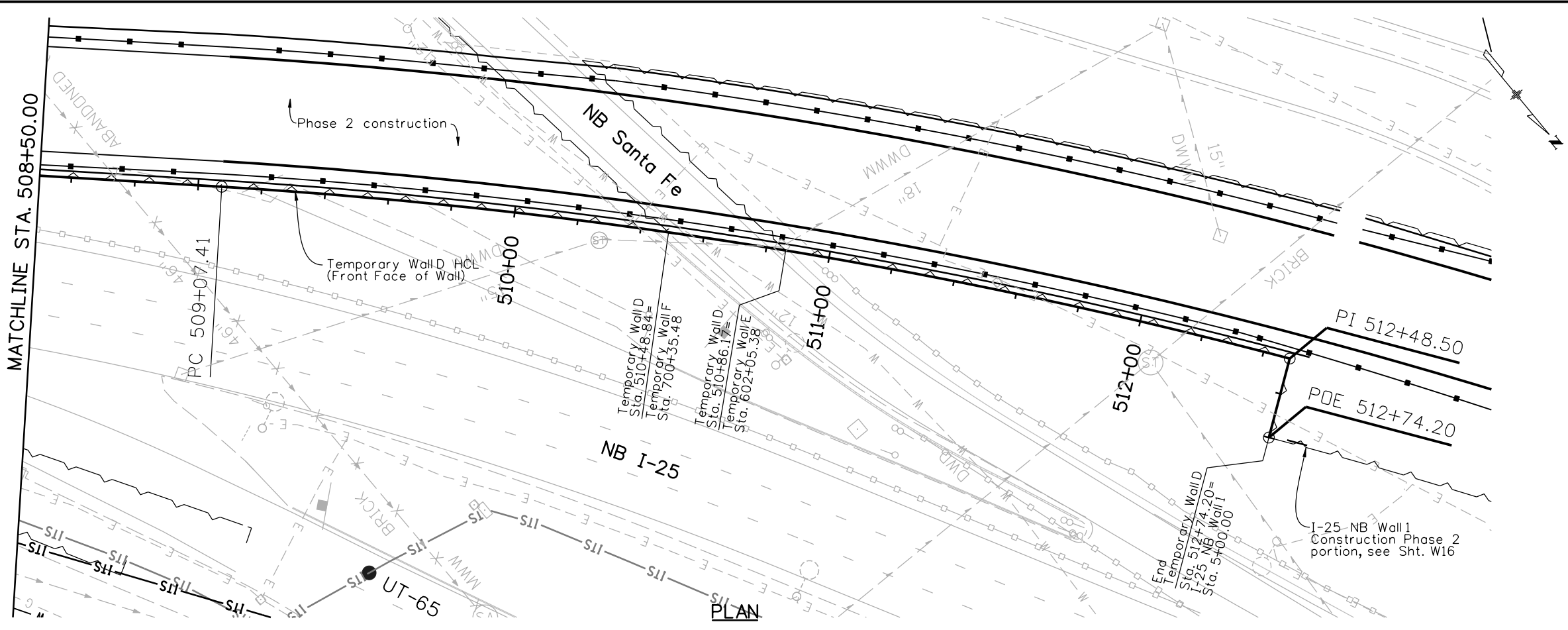
Designer:	P. STEIN	Structure Numbers	
Detailer:	R. DILLON	Subset Sheets:	W58 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 332 A

6300 South Syracuse Way
 Centennial, CO 80111
 25 years of engineering paths to transportation solutions

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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WJM	10/10	WJM	10/10	WJM	10/10
Checked By	Checked By	Checked By	Checked By	Checked By	Checked By



Print Date: 11/19/2010
 File Name: 16311WALL_PH2_TempWallD-GPE.dgn
 Horiz. Scale: 1:40 Vert. Scale: As Noted
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Sheet Revisions			
Date:	Comments	Init.	
12/3/10	Misc. Revisions	PRS	

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 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
TEMPORARY WALL D
GENERAL LAYOUT (3 OF 3)

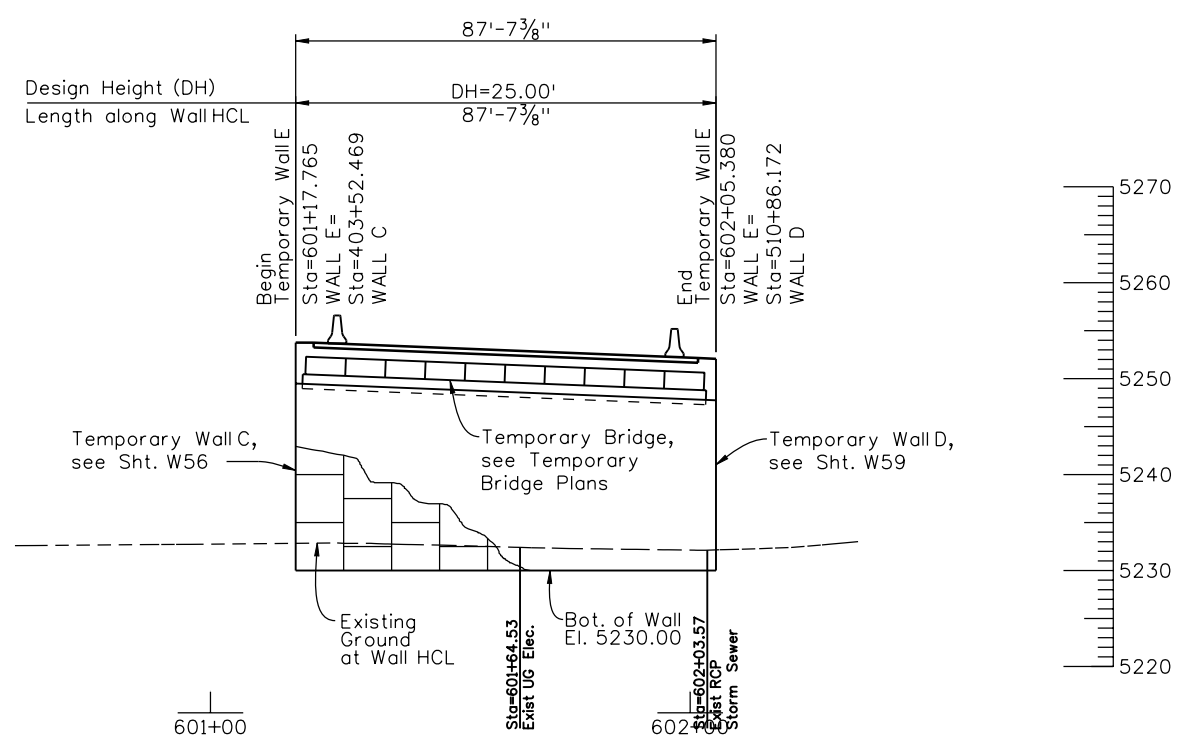
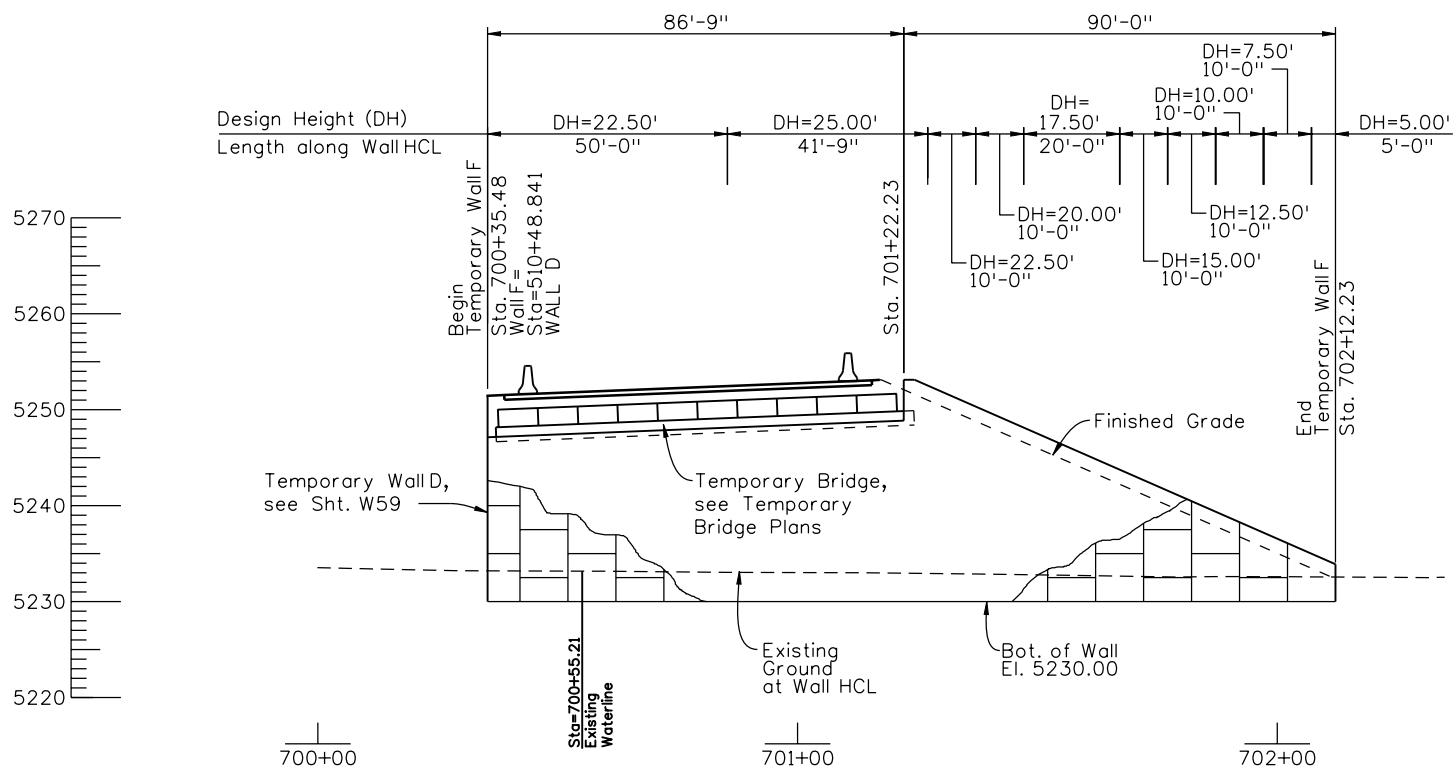
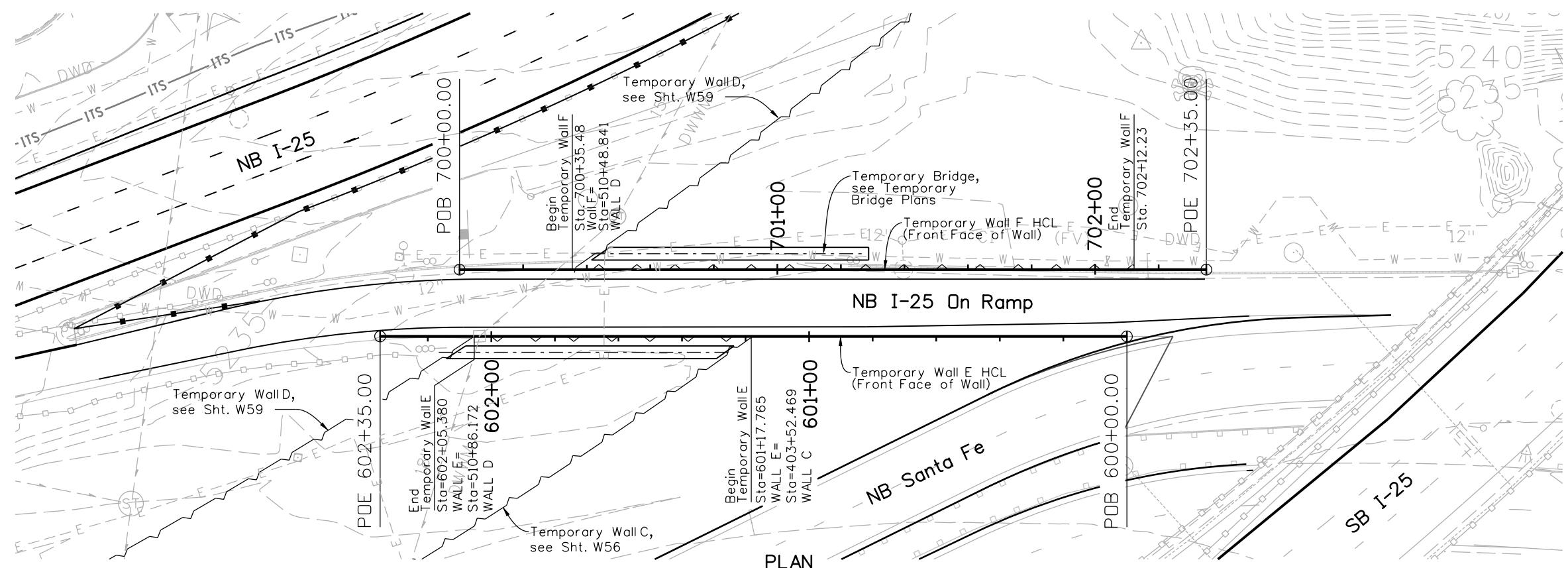
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Detailer:	R. DILLON	Subset Sheets:	W59 of 67

Project No./Code
 BR 0252-407
 17783
 Sheet Number **333 A**

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Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By



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 File Name: 16311WALL_PH2_TempWallE-F-GPE.dgn
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Sheet Revisions			
Date:	Comments	Init.	
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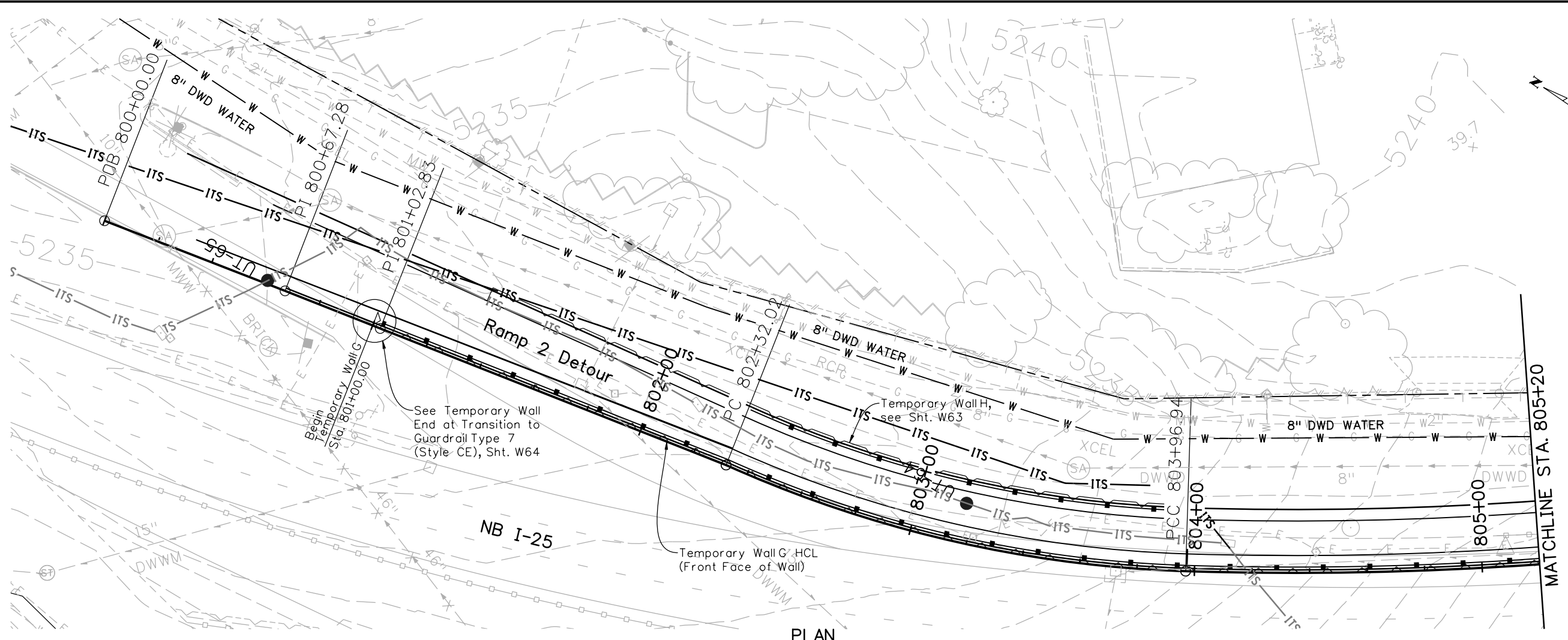
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Detailer:	R. DILLON	Numbers	
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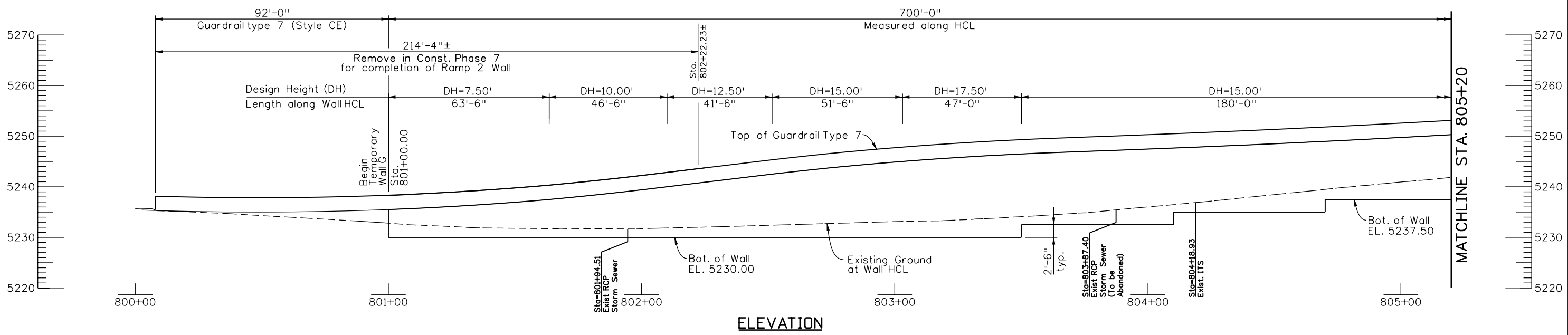
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Sheet Revisions		
Date:	Comments	Init.
12/3/10	Misc. Revisions	PRS

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 Revised:
 Void:

**I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL G
 GENERAL LAYOUT (1 OF 2)**

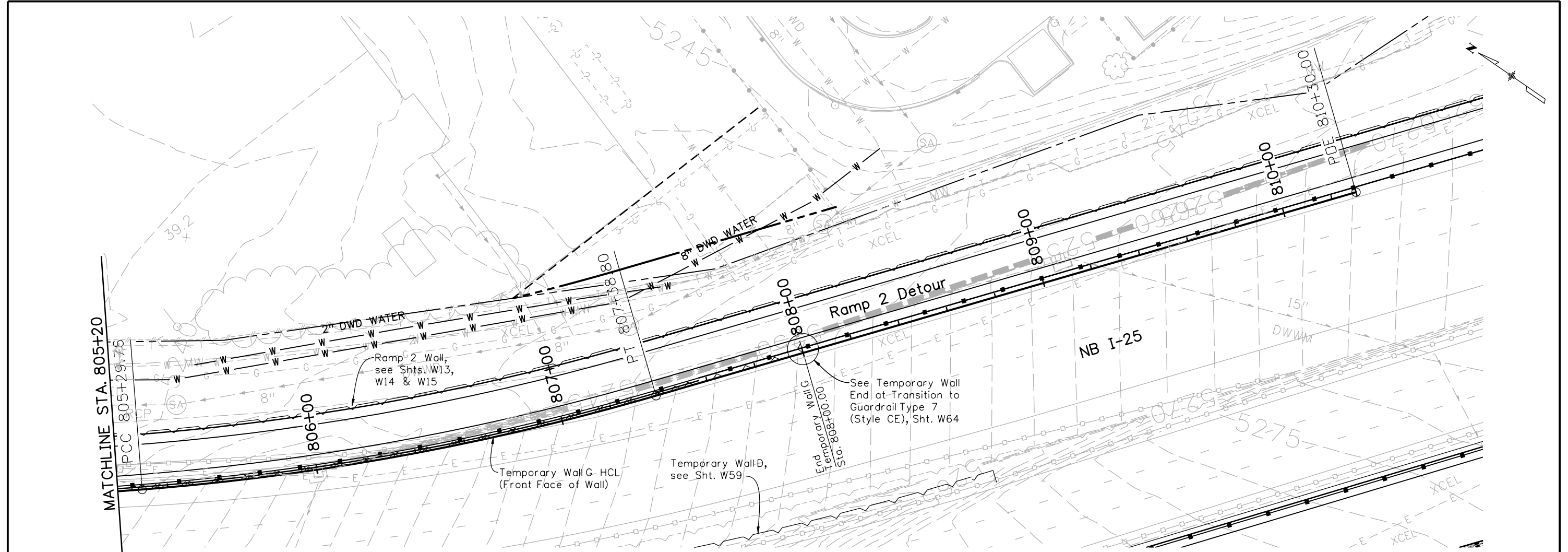
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Project No./Code
 BR 0252-407
 17783
 Sheet Number **335 A**

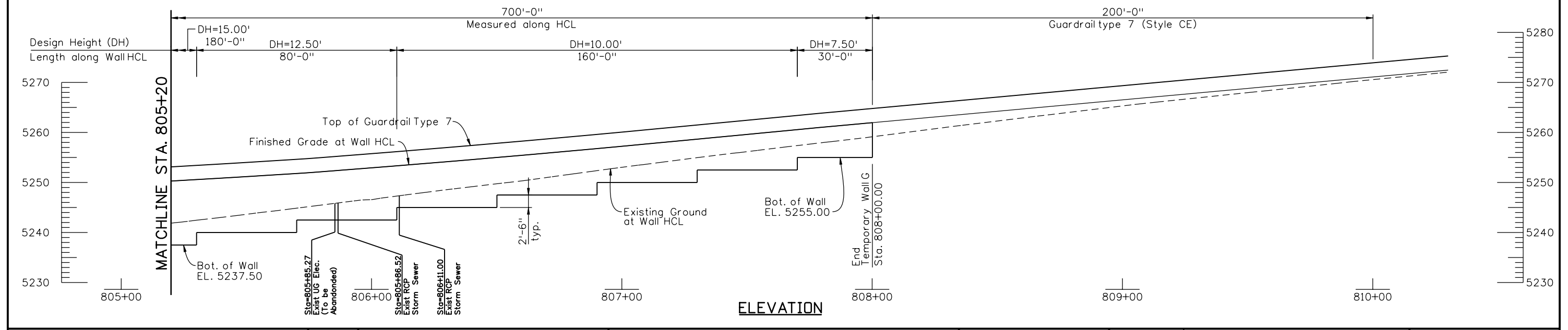
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Revision Dates		(Preliminary Stage Only)	
NO.	DATE	BY	REASON

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE




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Date:	Comments	Init.


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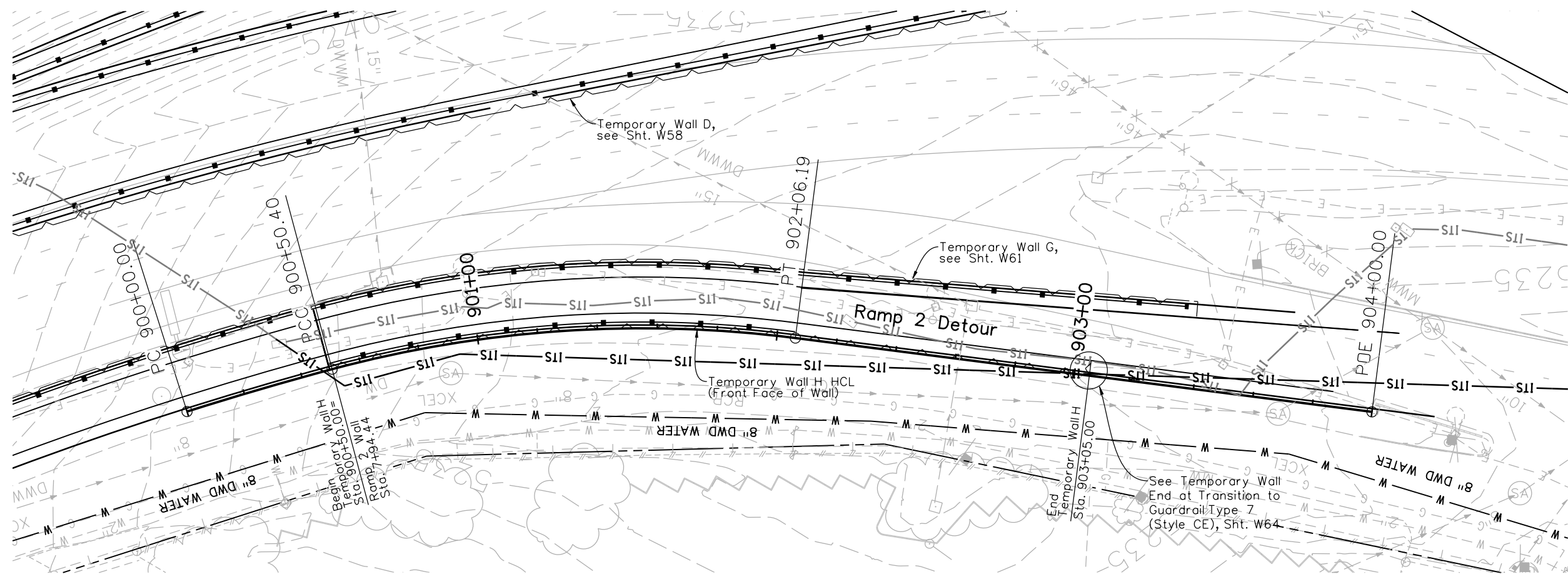
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I-25/SANTA FE INTERCHANGE
TEMPORARY WALL G
GENERAL LAYOUT (2 OF 2)

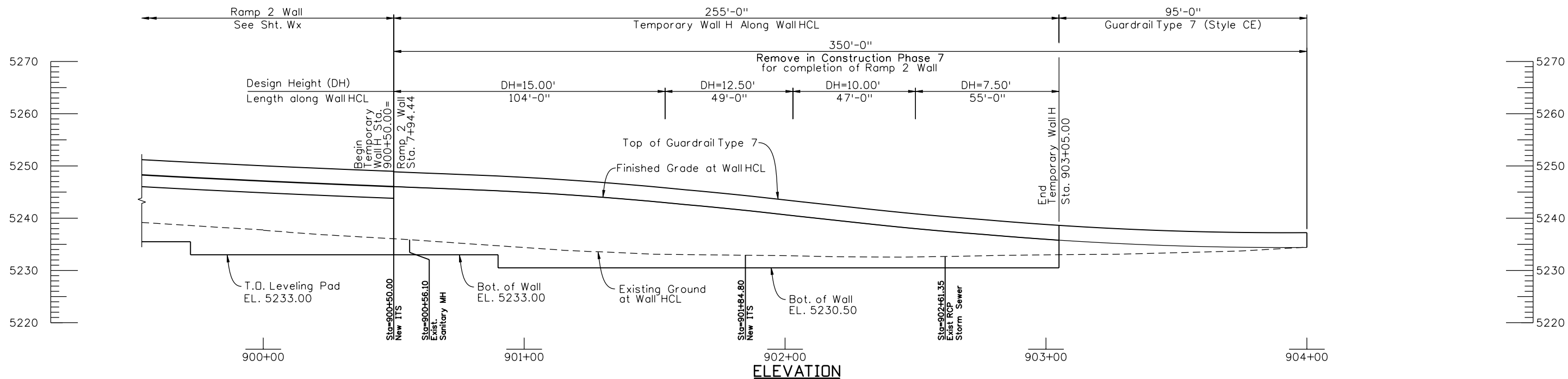
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Detailer:	R. DILLON	Subset Sheets:	W62 of 67

Project No./Code
 BR 0252-407
 17783
Sheet Number 336


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ELEVATION

Revision Dates		Quantities	
DATE	BY	INITIAL	DATE

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE

Print Date: 10/22/2010
 File Name: 16311WALL_PH2_TempWallH-GPE.dgn
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 Unit Information Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

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I-25/SANTA FE INTERCHANGE TEMPORARY WALL H GENERAL LAYOUT		
Designer:	P. STEIN	Structure Numbers
Detailer:	R. DILLON	
Sheet Subset:	WALL	Subset Sheets: W63 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 337

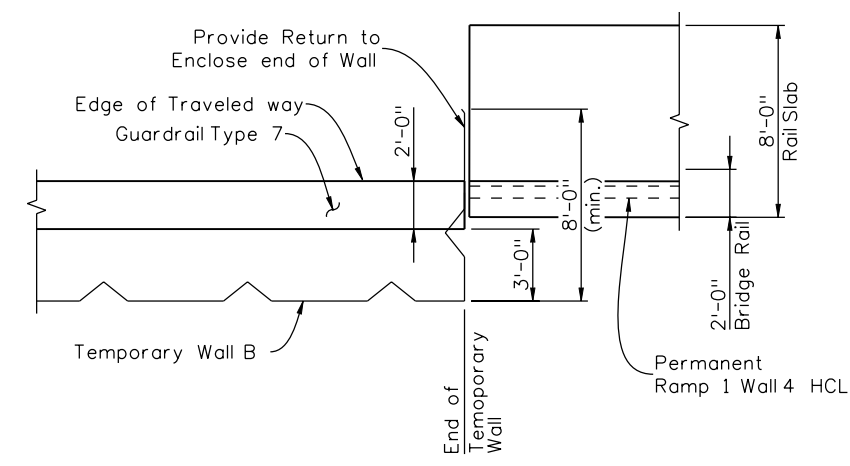
FELSBURG HOLT & ULLEVIK
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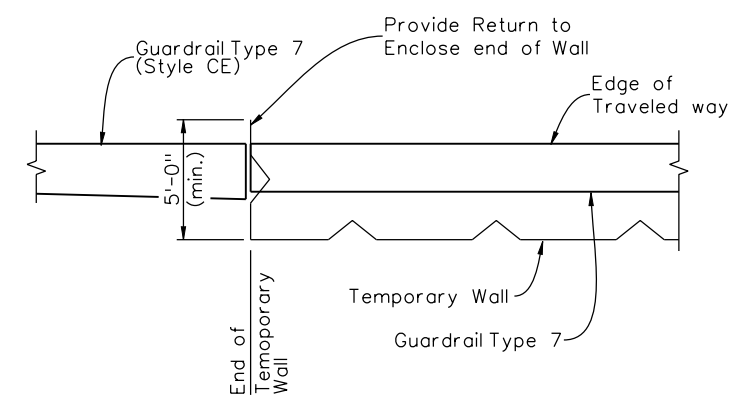
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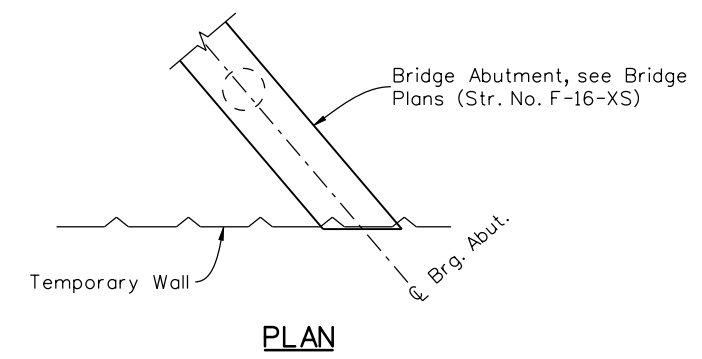
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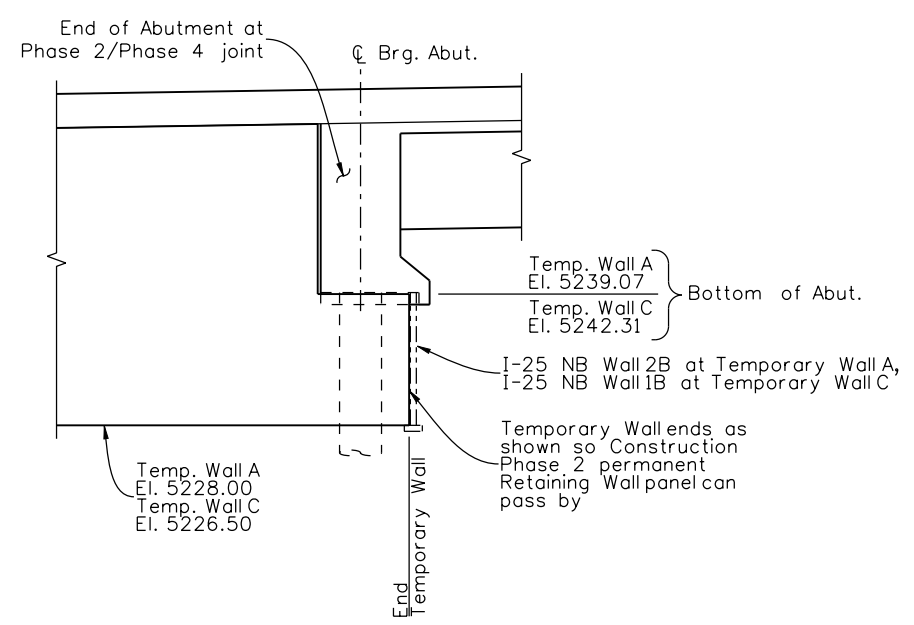
**TEMPORARY WALL/PERMANENT WALL
INTERFACE DETAIL**
 (Temporary Wall B only)



**TEMPORARY WALL END
AT TRANSITION TO GUARDRAIL TYPE 7 (STYLE CE)**
 (Temporary Wall A, B, D, G & H)

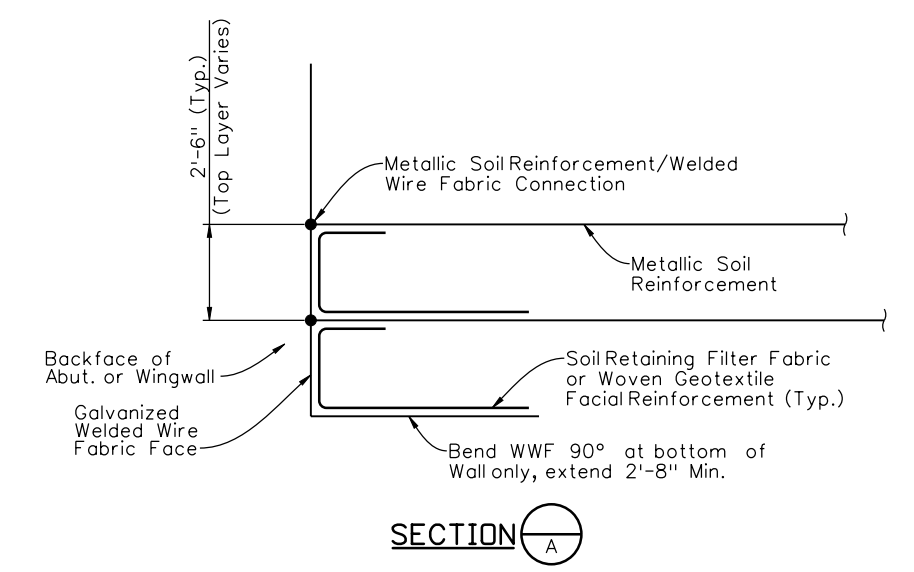


PLAN



ELEVATION

**TEMPORARY WALL END
AT I-25 OVER SANTA FE BRIDGE ABUTMENTS**
 (Temporary Wall A Shown, Temporary Wall C similar)



SECTION A

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Horiz. Scale: 1:1 Vert. Scale: As Noted	
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I-25/SANTA FE INTERCHANGE			
TEMPORARY WALL DETAILS			
Designer:	P. STEIN	Structure Numbers	
Detailer:	R. DILLON		
Sheet Subset:	WALL	Subset Sheets:	W64 of 67

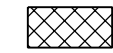
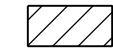

Project No./Code
BR 0252-407
17783
Sheet Number 338


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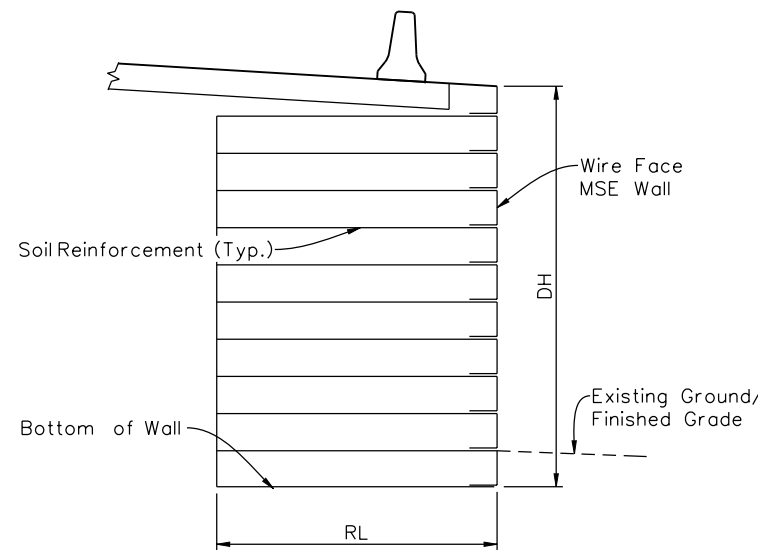
ABBREVIATIONS

ABC = Aggregate Base Course
 DH = Design Height (ft.)
 RL = Reinforcing Length (ft.)

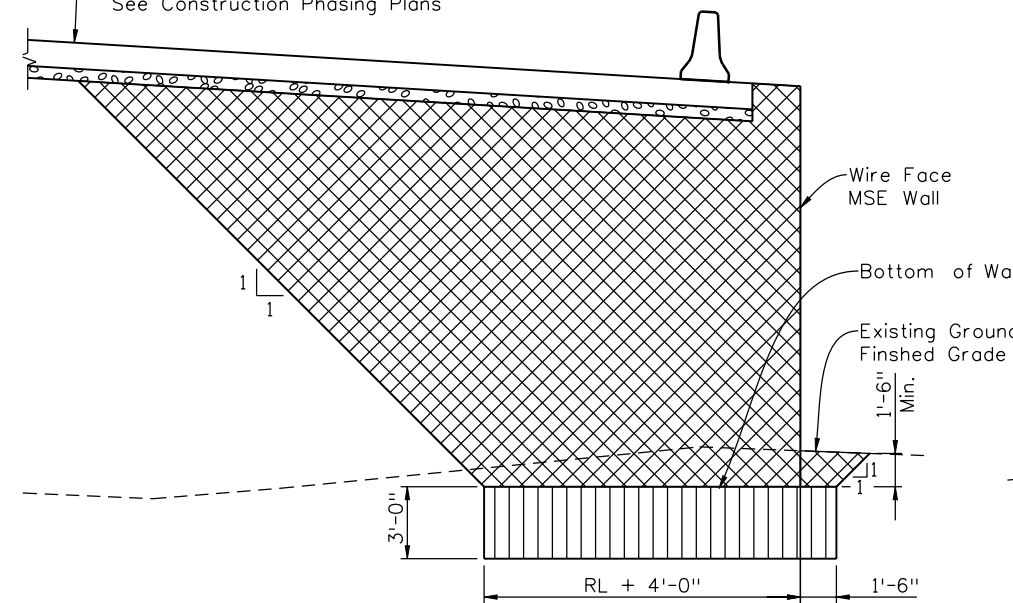
LEGEND

-  Pay Limit for Structure (Class 1) Backfill
-  Pay Limit for Structure Excavation
-  Aggregate Base Course (Class 6)

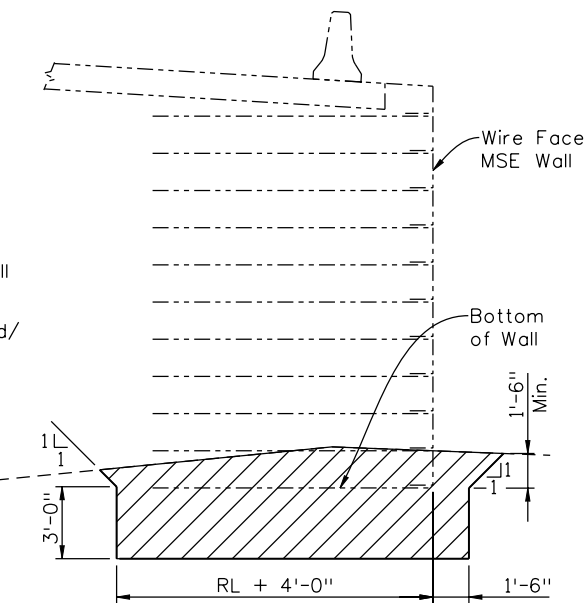
Wall A, C & D: Permanent 13" Concrete Pavement over 6" ABC near I-25 over Santa Fe Bridge (shown) or Temporary Detour Pavement (6" HMA over 12" ABC) elsewhere
 Wall B: Permanent 13" Concrete Pavement over 6" ABC
 See Construction Phasing Plans



MECHANICAL REINFORCEMENT OF SOIL



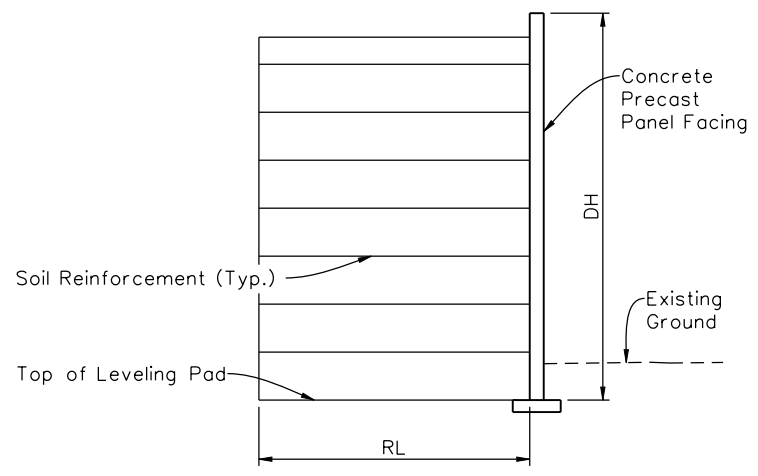
STRUCTURE BACKFILL



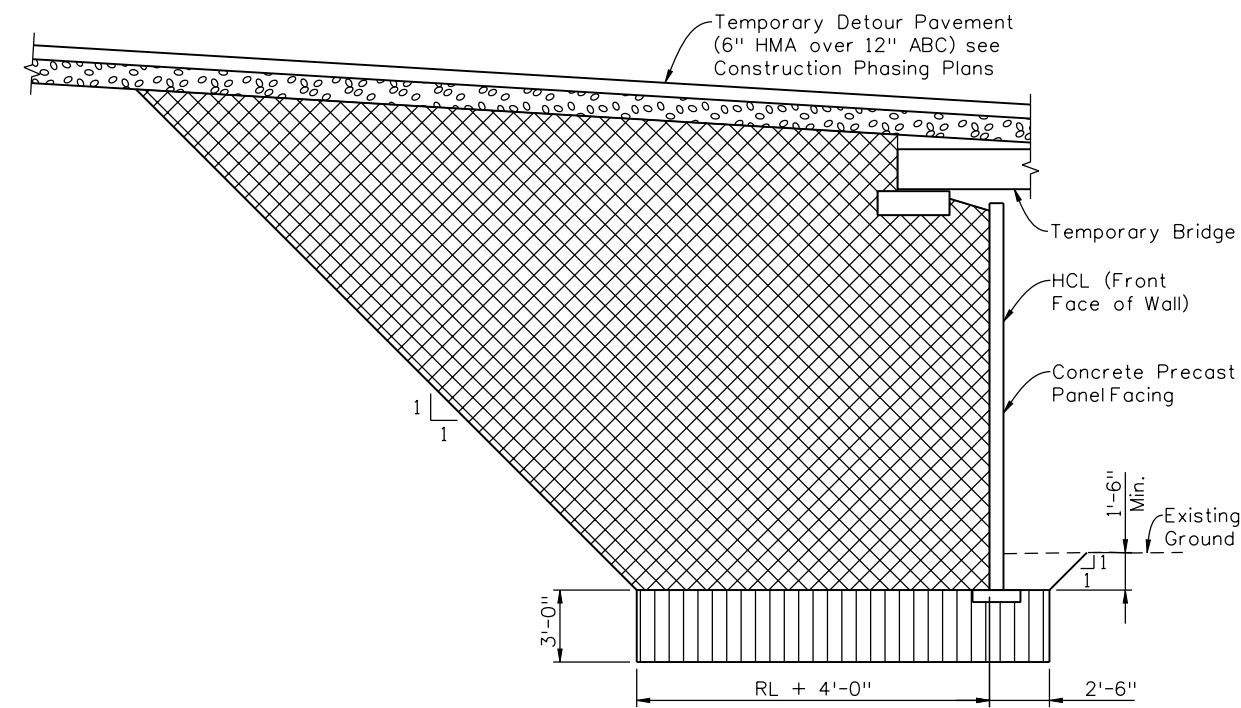
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TEMPORARY WALLS A, B, C, & D

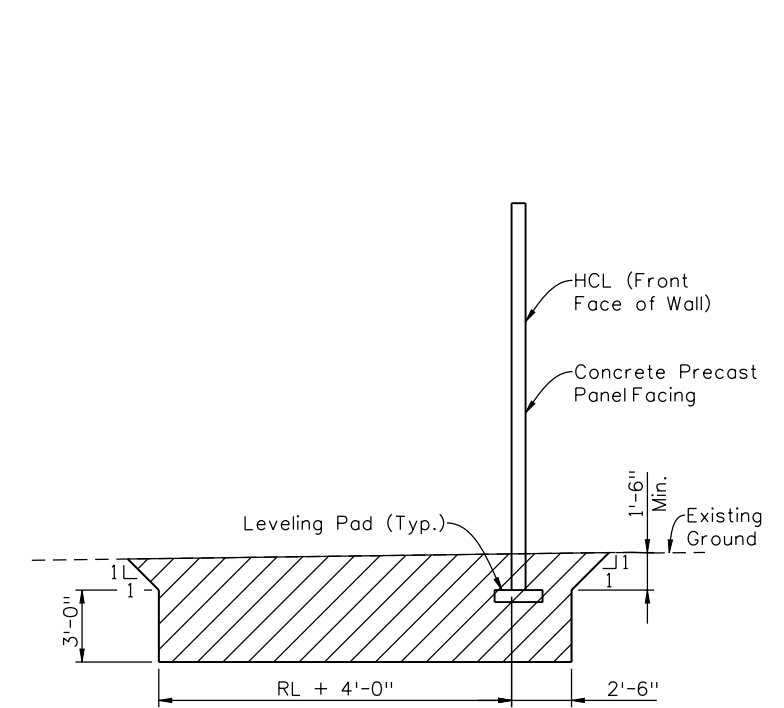
Temporary Detour Pavement (6" HMA over 12" ABC) see Construction Phasing Plans



MECHANICAL REINFORCEMENT OF SOIL



STRUCTURE BACKFILL



STRUCTURE EXCAVATION

TEMPORARY WALLS E & F

Print Date: 10/22/2010	0000
File Name: 16311WALL_PH2_TempWallExcav01.dgn	
Horiz. Scale: 1:1 Vert. Scale: As Noted	
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Date:	Comments	Init.

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I-25/SANTA FE INTERCHANGE TEMPORARY WALL EXCAVATION & BACKFILL DETAILS (1 OF 2)	
Designer: P. STEIN	Structure Numbers
Detailer: M. ARROYO	
Sheet Subset: WALL	Subset Sheets: W65 of 67

Project No./Code
BR 0252-407
17783
Sheet Number 339

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Revision Dates	Quantities
(Preliminary Stage Only)	

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DATE	DATE	DATE
DESIGNED BY	Detailed By	Checked By
PRD	PRD	PRD

ABBREVIATIONS

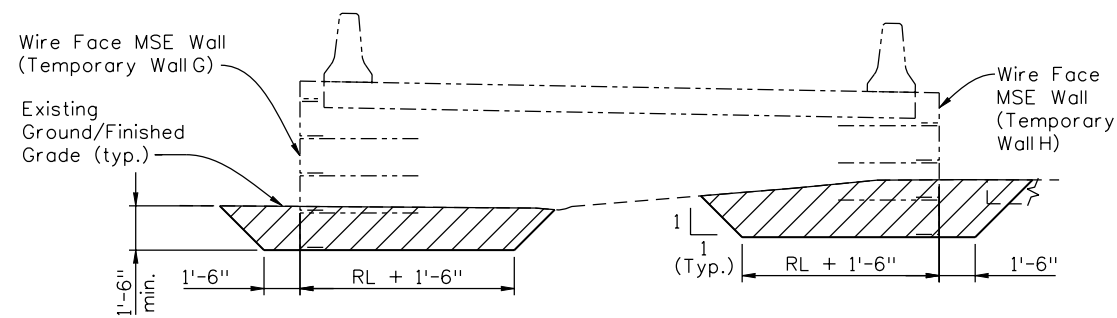
ABC = Aggregate Base Course
 DH = Design Height (ft.)
 RL = Reinforcing Length (ft.)

LEGEND

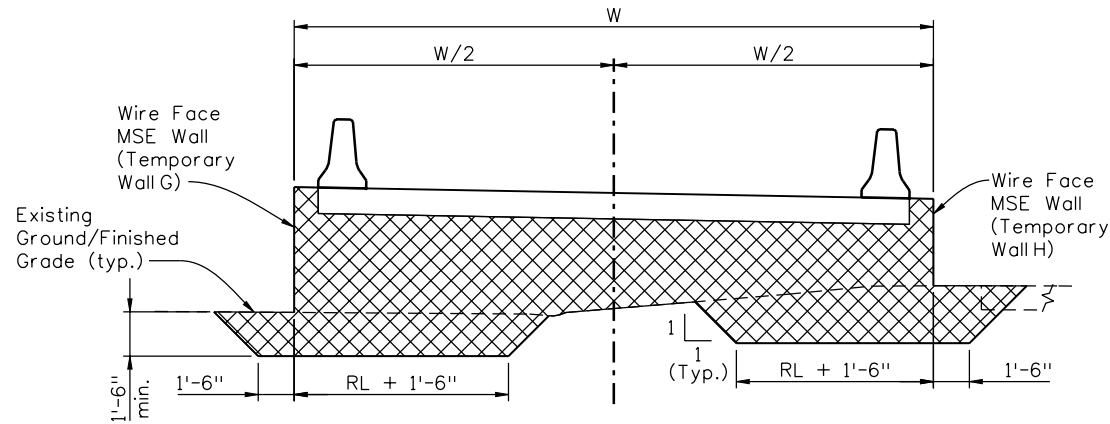
-  Pay Limit for Structure (Class 1) Backfill
-  Pay Limit for Structure Excavation
-  Aggregate Base Course (Class 6)

NOTES

1. See Sht. W65 for Mechanical Reinforcement of Soil.
2. 3'-0" Over-excavation limits for Temporary Wall G = Wall Sta. 802+00 to Sta. 808+00.



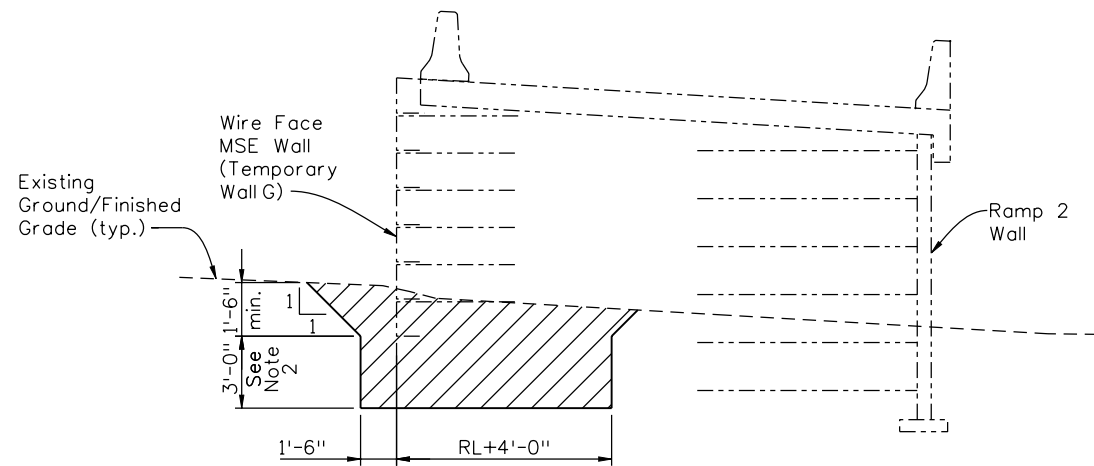
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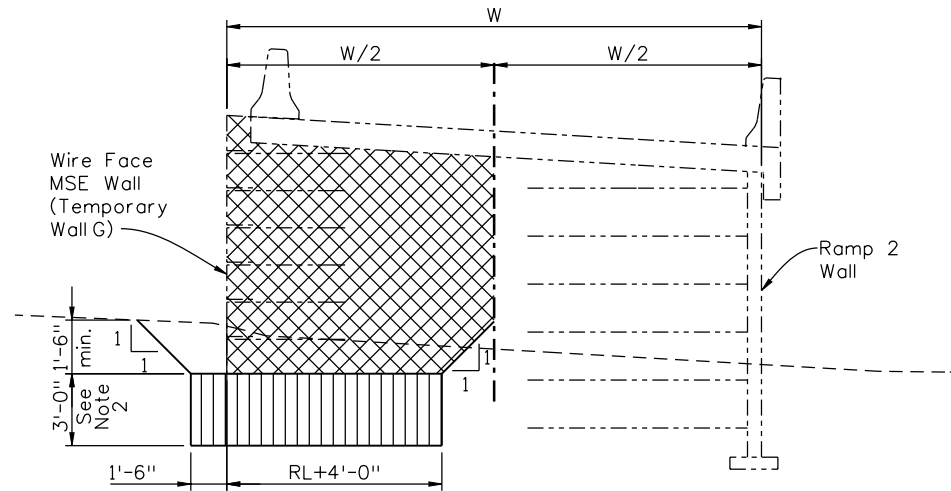
STRUCTURE BACKFILL

TEMPORARY WALLS G & H

(See Note 2)



STRUCTURE EXCAVATION



STRUCTURE BACKFILL

TEMPORARY WALL G PARALLEL TO RAMP 2 WALL


(See Note 2)

Revision Dates	(Preliminary Stage Only)

Design	Quantity	DATE	INITIAL	DATE	INITIAL

Print Date: 12/20/2010
 File Name: 16311WALL_PH2_TempWallExcav01.dgn
 Horiz. Scale: 1:1 Vert. Scale: As Noted
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Sheet Revisions		
Date:	Comments	Init.
1/3/11	Misc. Revisions	MJE

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**I-25/SANTA FE INTERCHANGE
 TEMPORARY WALL EXCAVATION
 & BACKFILL DETAILS (2 OF 2)**

Designer: P. STEIN
 Detailer: M. ARROYO
 Sheet Subset: WALL Subset Sheets: W66 of 67


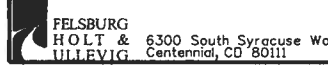
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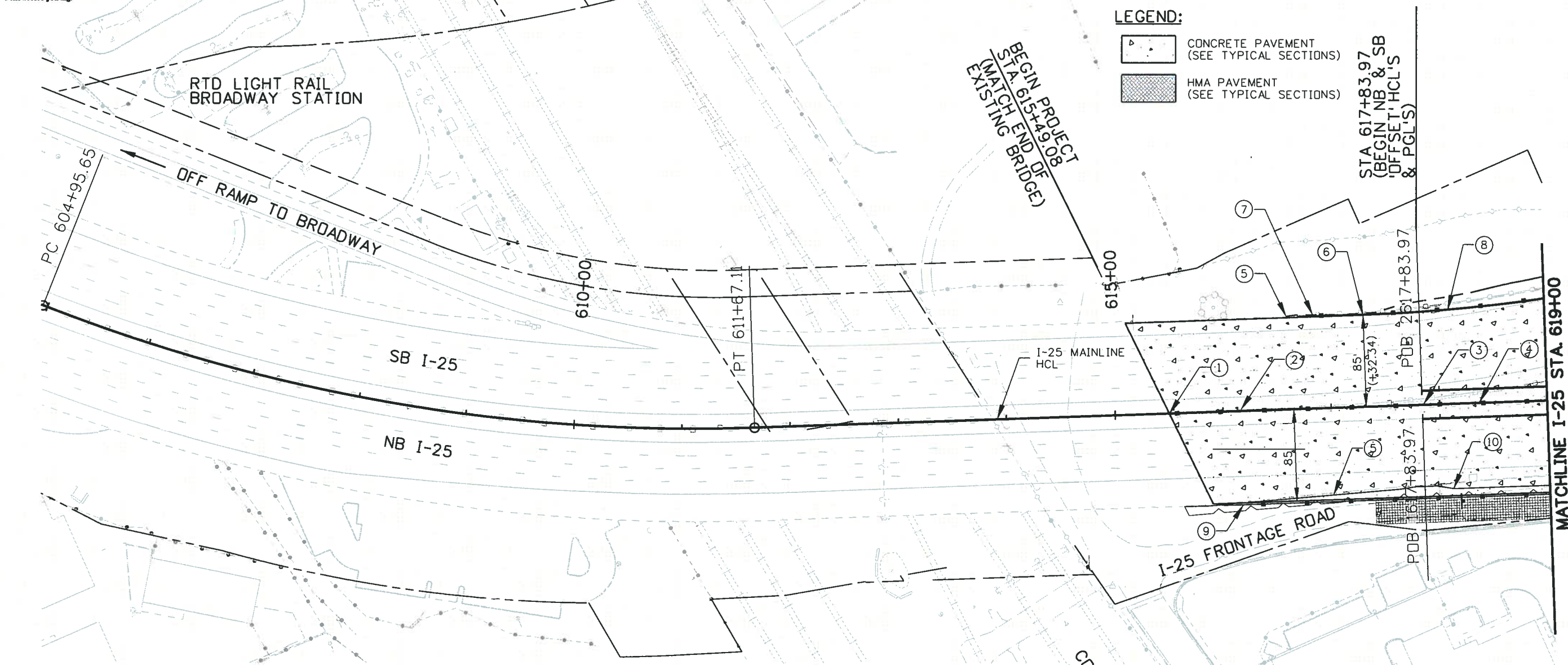
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ROADWAY GENERAL NOTES

1. PAVING SHALL NOT BEGIN UNTIL THE SUBGRADE HAS BEEN APPROVED BY THE ENGINEER. THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED AND APPROVED PRIOR TO THE PLACEMENT OF ANY PAVEMENT. AREAS WHICH DEFORM UNDER HEAVY WHEEL LOADS AS DETERMINED BY THE ENGINEER SHALL BE DEEMED NOT STABLE AND SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE TO ACHIEVE A STABLE SUBGRADE PRIOR TO PAVING. (SEE SUBSECTION 203.09 OF THE STANDARD SPECIFICATIONS). THE ENGINEER TO APPROVE THE TYPE AND WEIGHT OF THE VEHICLE TO BE USED FOR THE PROOF ROLLING. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE PROOF ROLLING. PROOF ROLLING WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF THE PAVEMENT.
2. ALL CURB AND GUTTER TYPE 2 (SECTION II-B) TO BE 'CATCH' UNLESS SHOWN OTHERWISE.
3. ALL PRECAST TYPE 7 CONCRETE BARRIERS TO BE PAID FOR AS ITEM 606-00705 – GUARDRAIL TYPE 7 (SPECIAL). ALL PRECAST TYPE 7 CONCRETE BARRIERS TO REMAIN ON THE PROJECT SITE AT THE END OF THE CONSTRUCTION AND TO BECOME THE PROPERTY OF CDOT, UNLESS SPECIFICALLY DESIGNATED BY THE ENGINEER TO BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR.
4. ALL TEMPORARY IMPACT ATTENUATORS TO BE APPROVED BY THE ENGINEER AND TO BE PAID FOR AS ITEM 630 – IMPACT ATTENUATOR (TEMPORARY). ALL TEMPORARY IMPACT ATTENUATORS TO REMAIN ON THE PROJECT SITE AT THE END OF THE CONSTRUCTION AND TO BECOME THE PROPERTY OF CDOT, UNLESS SPECIFICALLY DESIGNATED BY THE ENGINEER TO BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR.
5. ALL MODIFICATIONS TO THE TYPE 7 BARRIERS NECESSARY TO ACCOMMODATE THE BRIDGE PIERS, OVERHEAD SIGNS, LIGHTING, BRIDGE RAILS (INCLUDING TRANSITIONING TO THE SEPARATE BRIDGE RAILS AT THE I-25 BRIDGE OVER SANTA FE), IMPACT ATTENUATORS, TRANSITIONS TO OTHER BARRIERS, AND ALL OTHER NECESSARY MODIFICATIONS WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF CORRESPONDING TYPE 7 BARRIER. THE CONTRACTOR SHALL PROVIDE BARRIER TRANSITION DETAILS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING THE BARRIER.
6. GLARE SCREEN SHALL BE PLACED ON THE PRECAST TYPE 7 CONCRETE BARRIERS WHERE DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE GLARE SCREEN WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF THE CORRESPONDING TYPE 7 BARRIERS. THE CONTRACTOR SHALL PROVIDE BARRIER TRANSITION DETAILS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTING BARRIER.
7. ITEM 507 –CONCRETE SLOPE AND DITCH PAVING TO BE 6 INCHES THICK. FINAL LIMITS OF CONCRETE SLOPE AND DITCH PAVING TO BE DETERMINED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

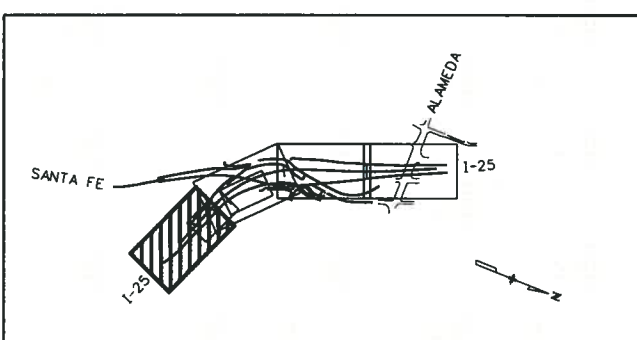
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Print Date: 11/19/2010		Sheet Revisions	Colorado Department of Transportation	As Constructed	I-25/SANTA FE INTERCHANGE	Project No./Code
File Name: 16311DES_PH2_RoadwayNotes.dgn		Date: Comments Init.	 2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6	No Revisions:	ROADWAY NOTES	BR 0252-407
Horiz. Scale: 1:1 Vert. Scale: As Noted	(R-1)	12/3/2010 REISSUED SHEET SPG		Revised:	Designer: SPG Structure	17783
Unit Information Unit Leader Initials	()			Void:	Detailer: SYS Numbers	Sheet Number 342 A
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LEGEND:

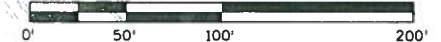
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



MAPKEY

CONSTRUCTION NOTES:

- ① STA. 615+49.08 - BEGIN TYPE 7 BARRIER (MATCH EXISTING)
- ② TYPE 7 BARRIER (STYLE CC). (CONCRETE GLARE SCREEN)
- ③ STA. 617+83.97 - BEGIN TYPE 7 BARRIER (STYLE CE).
- ④ TYPE 7 BARRIER (STYLE CE) (CONCRETE GLARE SCREEN).
- ⑤ EDGE OF CONCRETE PAVEMENT (SEE TYPICAL SECTIONS).
- ⑥ STA. 617+32.34 BEGIN RAMP 3 TAPER.
- ⑦ STA. 616+71.86 - TRANSITION FROM EXISTING BRIDGE RAIL TO TYPE 7 BARRIER
- ⑧ TYPE 7 BARRIER (STYLE CA)
- ⑨ TYPE 7 BARRIER (STYLE CD) ALONG BASE OF WALL (SEE WALL PLANS).
- ⑩ LIMITS OF RAIL SLAB (SEE WALL PLANS).



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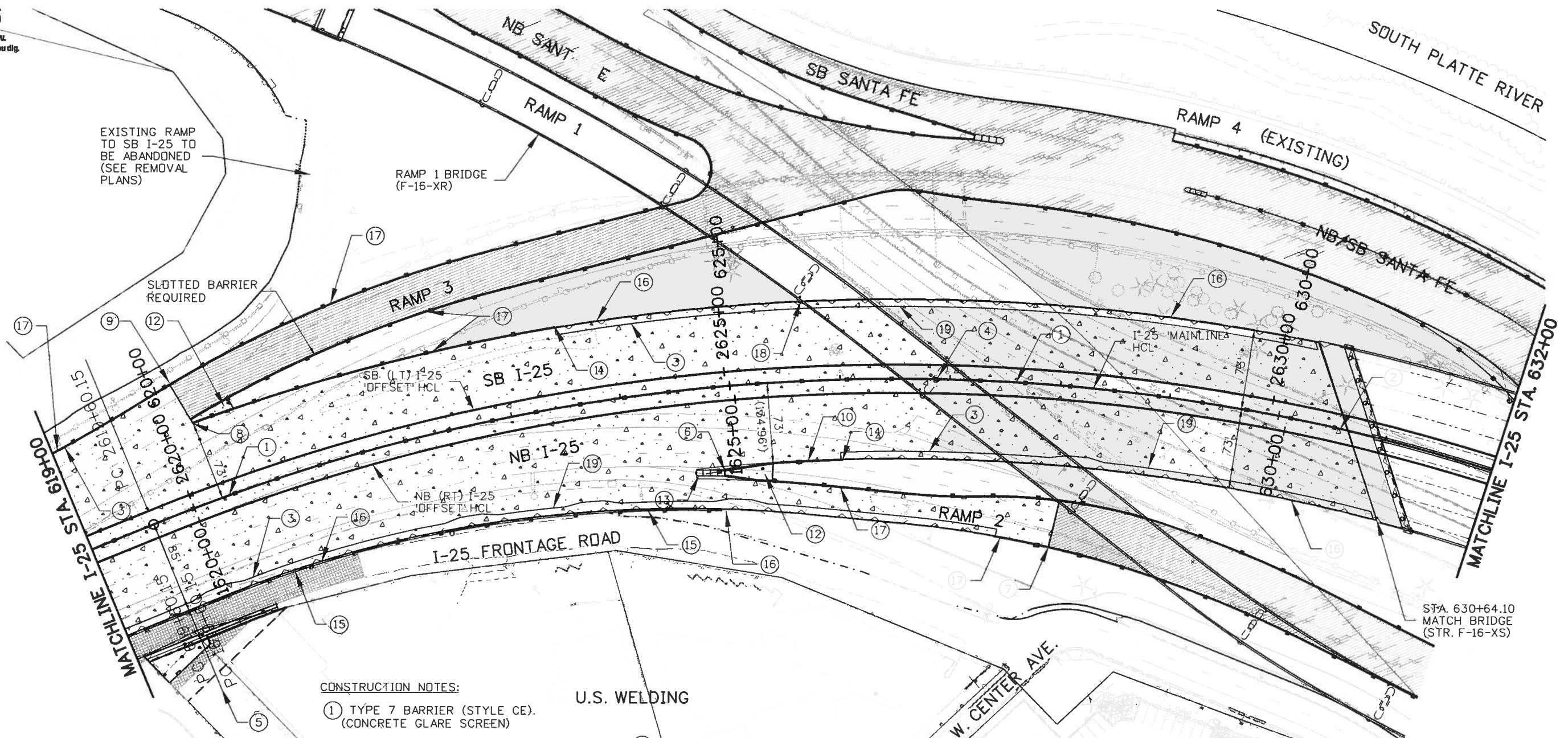
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Project No./Code
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17783
Sheet Number 343 A

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EXISTING RAMP TO SB I-25 TO BE ABANDONED (SEE REMOVAL PLANS)

RAMP 1 BRIDGE (F-16-XR)

RAMP 4 (EXISTING)

SLOTTED BARRIER REQUIRED

CONSTRUCTION NOTES:

- ① TYPE 7 BARRIER (STYLE CE). (CONCRETE CLARE SCREEN)
- ② TRANSITION TYPE 7 BARRIER TO MATCH SEPARATE BRIDGE RAILS AT END OF BRIDGE (SEE I-25 BRIDGE PLANS)
- ③ EDGE OF CONCRETE PAVEMENT (SEE TYPICAL SECTIONS).
- ④ TRANSITION BARRIER AROUND PIER (SEE RAMP 1 BRIDGE PLANS)
- ⑤ STA. 619+60.15 - BEGIN RAMP 2 TAPER
- ⑥ STA. 624+88.70 - GORE NOSE - (PROVIDE OPENINGS IN SLOTTED BARRIER FOR DRAINAGE).

U.S. WELDING

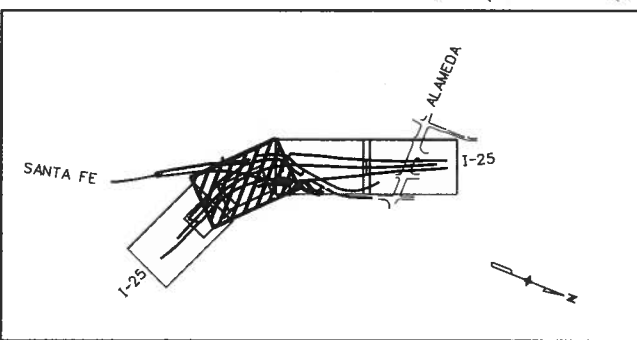
- ⑦ END CONCRETE PAVEMENT AND TYPE 7 BARRIER (STYLE CA) - BEGIN HMA PAVEMENT AND PRECAST TYPE 7 CONCRETE BARRIER. (SEE RAMP 2 PLANS)
- ⑧ STA. 620+25.33 - GORE NOSE
- ⑨ END CONCRETE PAVEMENT - BEGIN HMA PAVEMENT (SEE RAMP 3)
- ⑩ TYPE 7 BARRIER (STYLE CE).
- ⑪ STA. 623+52.40 - TRANSITION TYPE 7 BARRIER TO MATCH BRIDGE RAIL.
- ⑫ CONCRETE SLOPE AND DITCH PAVING.

- ⑬ IMPACT ATTENUATOR
- ⑭ STA. 626+00.22 - TRANSITION TYPE 7 BARRIER TO MATCH BRIDGE RAIL.
- ⑮ TYPE 7 BARRIER (STYLE CD) ALONG BASE OF WALL (SEE WALL PLANS).
- ⑯ WALL WITH BRIDGE RAIL (SEE WALL PLANS)
- ⑰ TYPE 7 BARRIER (STYLE CA).
- ⑱ POINT OF MINIMUM CLEARANCE.

- ⑲ LIMITS OF RAIL SLAB (SEE WALL PLANS).

LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



MAPKEY



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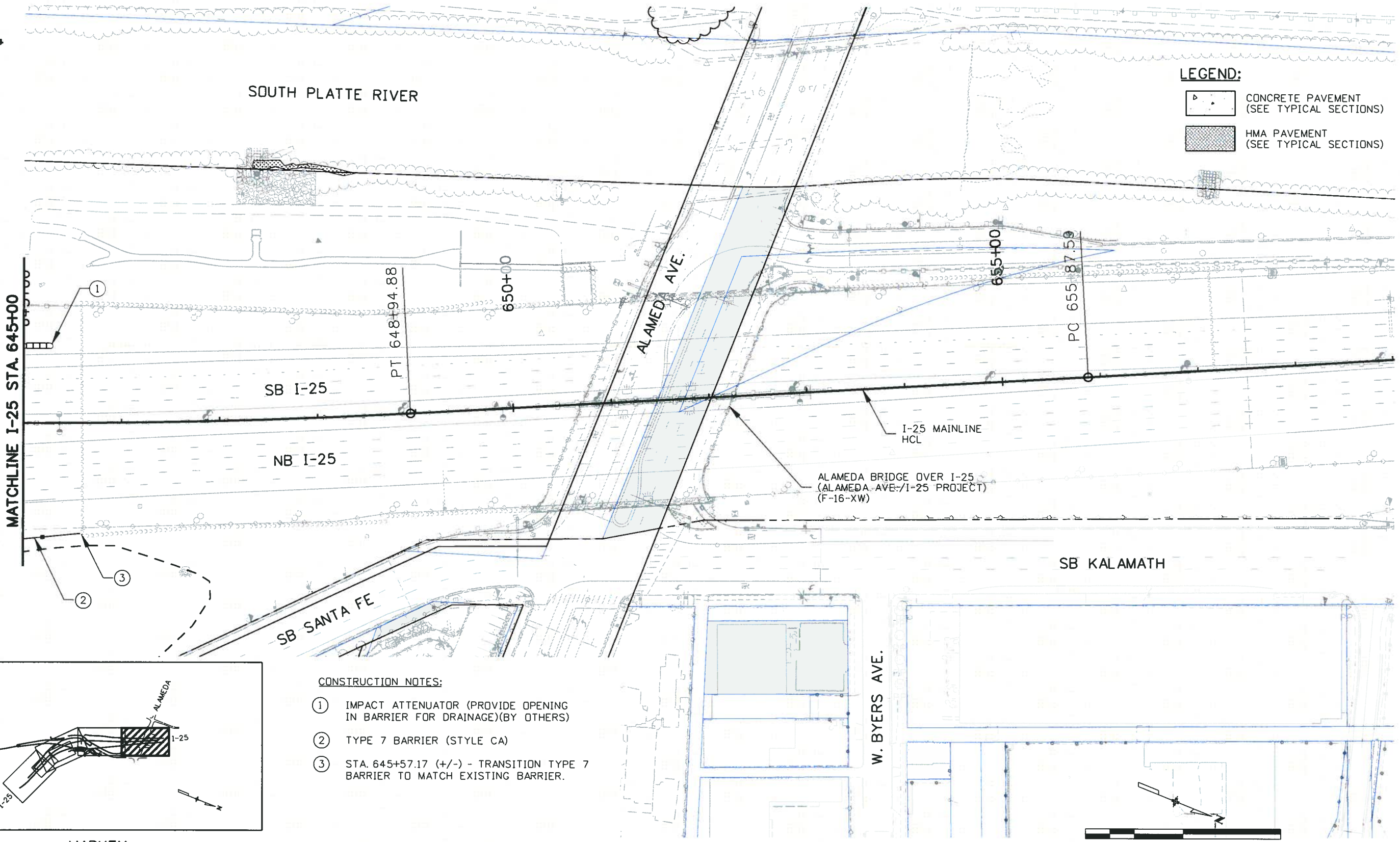
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LEGEND:

	CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
	HMA PAVEMENT (SEE TYPICAL SECTIONS)

MATCHLINE I-25 STA. 645+00

SOUTH PLATTE RIVER

ALAMEDA AVE.

SB I-25

NB I-25

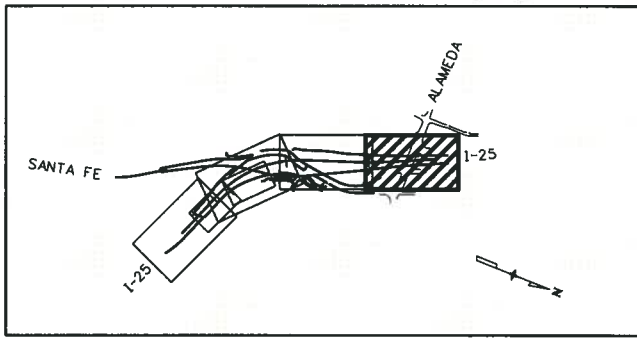
I-25 MAINLINE
HCL

ALAMEDA BRIDGE OVER I-25
(ALAMEDA AVE./I-25 PROJECT)
(F-16-XW)

SB KALAMATH

SB SANTA FE

W. BYERS AVE.



MAPKEY

- CONSTRUCTION NOTES:**
- ① IMPACT ATTENUATOR (PROVIDE OPENING IN BARRIER FOR DRAINAGE)(BY OTHERS)
 - ② TYPE 7 BARRIER (STYLE CA)
 - ③ STA. 645+57.17 (+/-) - TRANSITION TYPE 7 BARRIER TO MATCH EXISTING BARRIER.



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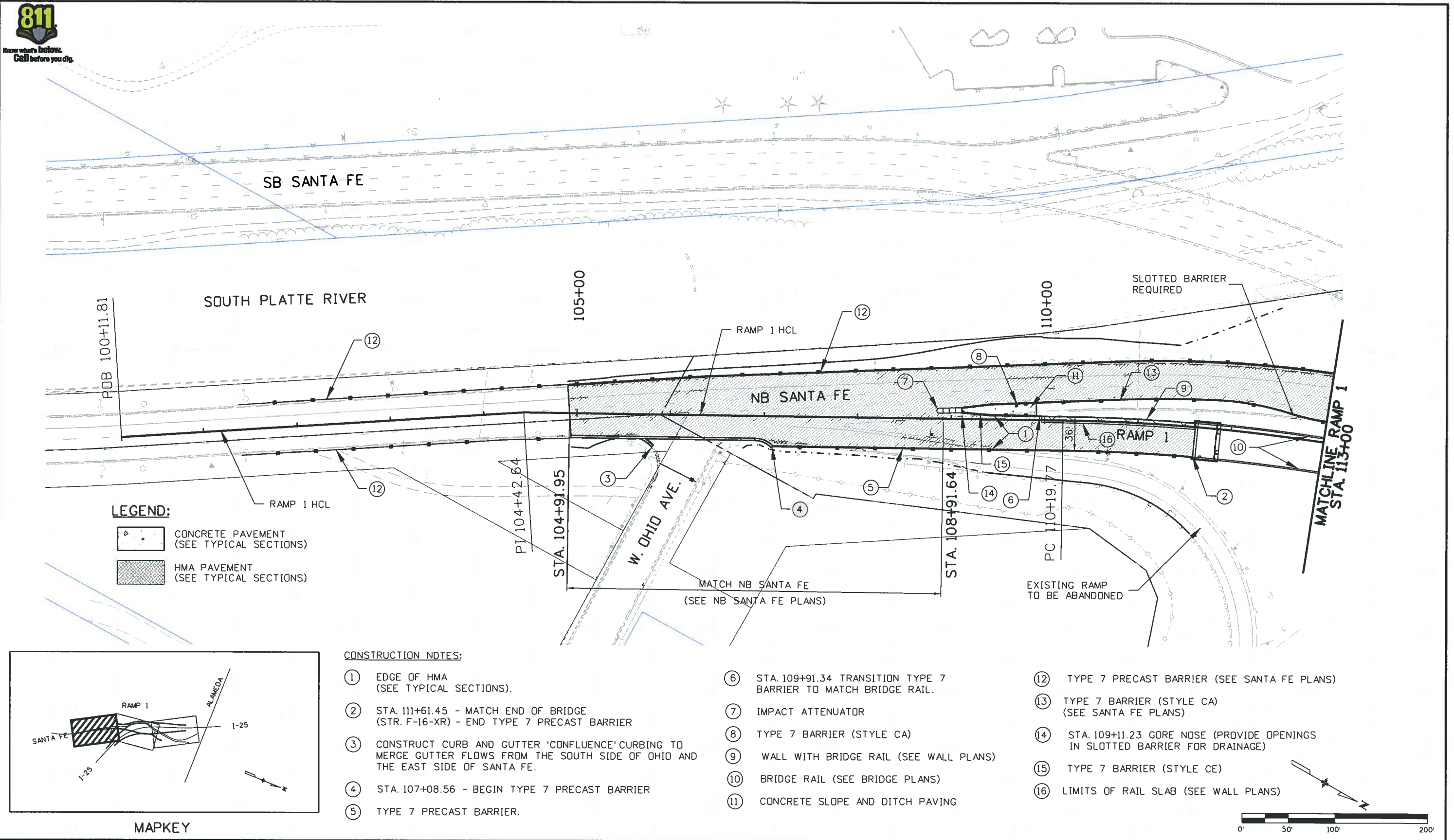
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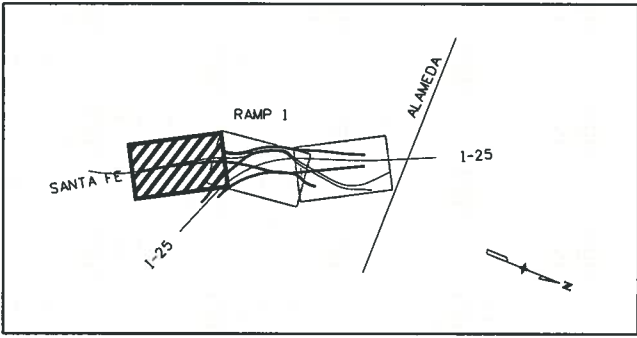
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17783
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- LEGEND:**
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
 - HMA PAVEMENT (SEE TYPICAL SECTIONS)



CONSTRUCTION NOTES:

- ① EDGE OF HMA (SEE TYPICAL SECTIONS).
- ② STA. 111+61.45 - MATCH END OF BRIDGE (STR. F-16-XR) - END TYPE 7 PRECAST BARRIER
- ③ CONSTRUCT CURB AND GUTTER 'CONFLUENCE' CURBING TO MERGE GUTTER FLOWS FROM THE SOUTH SIDE OF OHIO AND THE EAST SIDE OF SANTA FE.
- ④ STA. 107+08.56 - BEGIN TYPE 7 PRECAST BARRIER
- ⑤ TYPE 7 PRECAST BARRIER.
- ⑥ STA. 109+91.34 TRANSITION TYPE 7 BARRIER TO MATCH BRIDGE RAIL.
- ⑦ IMPACT ATTENUATOR
- ⑧ TYPE 7 BARRIER (STYLE CA)
- ⑨ WALL WITH BRIDGE RAIL (SEE WALL PLANS)
- ⑩ BRIDGE RAIL (SEE BRIDGE PLANS)
- ⑪ CONCRETE SLOPE AND DITCH PAVING
- ⑫ TYPE 7 PRECAST BARRIER (SEE SANTA FE PLANS)
- ⑬ TYPE 7 BARRIER (STYLE CA) (SEE SANTA FE PLANS)
- ⑭ STA. 109+11.23 GORE NOSE (PROVIDE OPENINGS IN SLOTTED BARRIER FOR DRAINAGE)
- ⑮ TYPE 7 BARRIER (STYLE CE)
- ⑯ LIMITS OF RAIL SLAB (SEE WALL PLANS)



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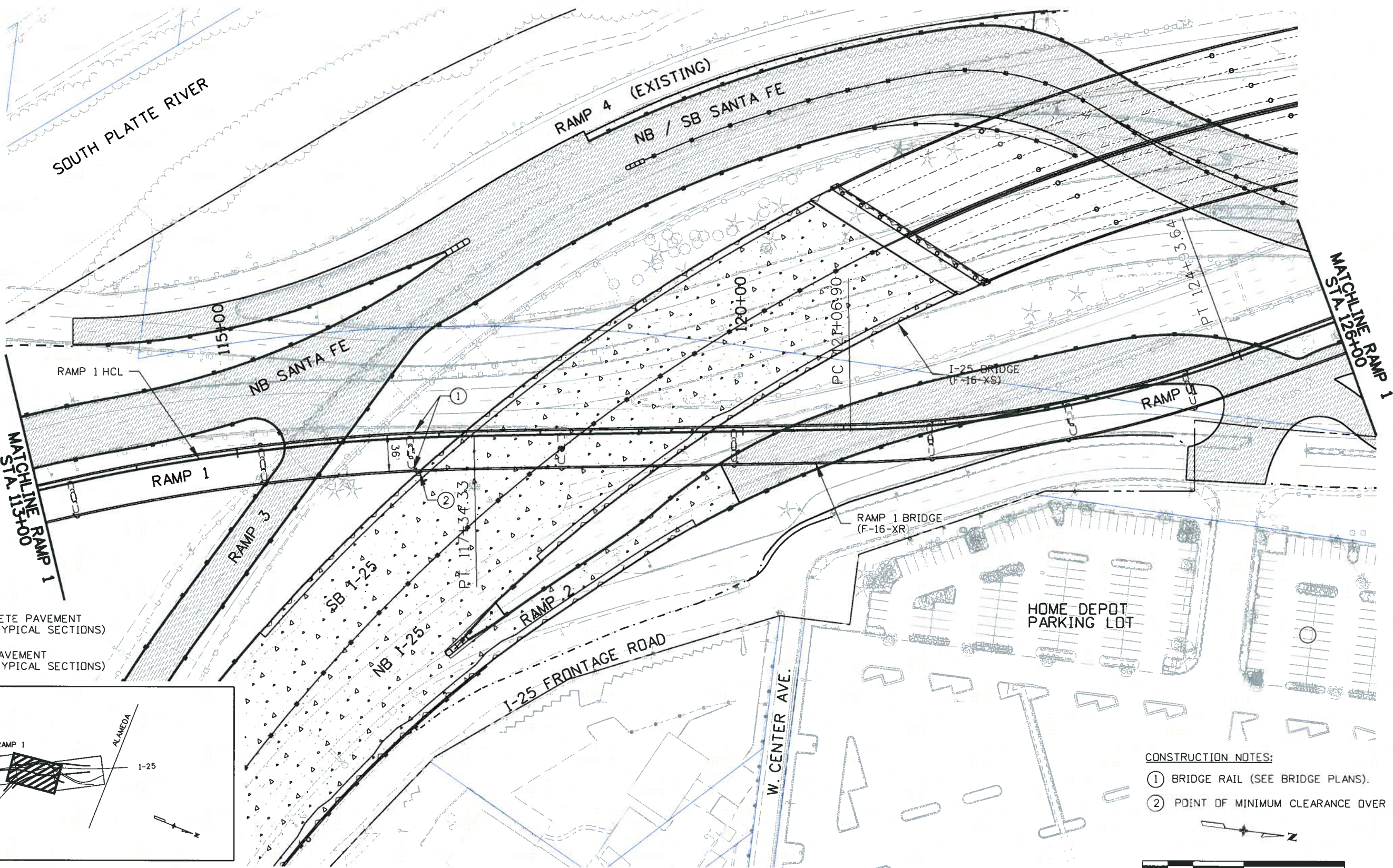
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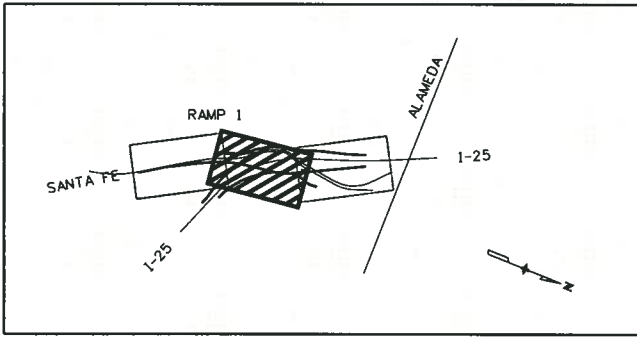
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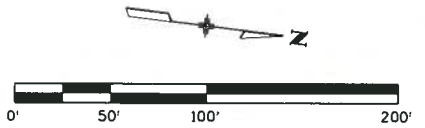
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- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



MAPKEY

- CONSTRUCTION NOTES:**
- ① BRIDGE RAIL (SEE BRIDGE PLANS).
 - ② POINT OF MINIMUM CLEARANCE OVER I-25.



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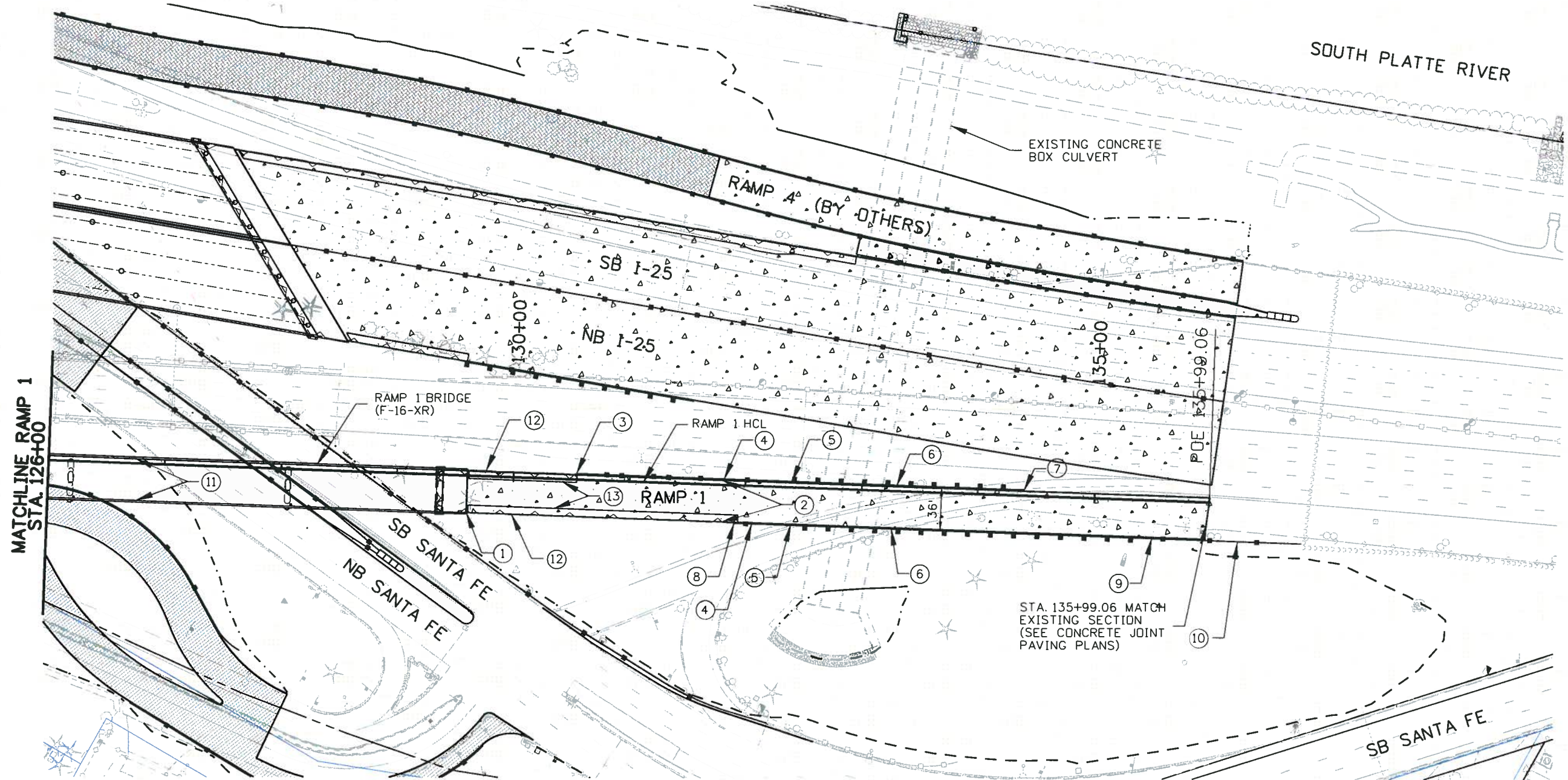
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MATCHLINE RAMP 1
STA. 126+00

SOUTH PLATTE RIVER

EXISTING CONCRETE
BOX CULVERT

RAMP 4 (BY OTHERS)

SB I-25

NB I-25

RAMP 1 BRIDGE
(F-16-XR)

RAMP 1 HCL

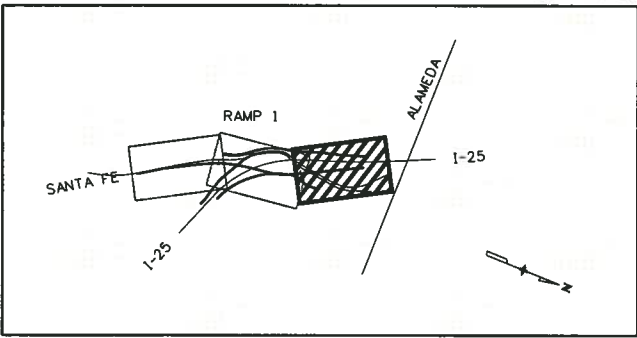
RAMP 1

SB SANTA FE

NB SANTA FE

STA. 135+99.06 MATCH
EXISTING SECTION
(SEE CONCRETE JOINT
PAVING PLANS)

SB SANTA FE



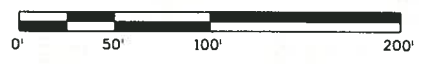
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LEGEND:

- CONCRETE PAVEMENT
(SEE TYPICAL SECTIONS)
- HMA PAVEMENT
(SEE TYPICAL SECTIONS)

CONSTRUCTION NOTES:

- ① STA. 129+60.61 - MATCH END OF BRIDGE
- ② EDGE OF CONCRETE PAVEMENT
(SEE TYPICAL SECTIONS)
- ③ STA. 130+54.11 - TRANSITION TYPE 7
BARRIER TO MATCH BRIDGE RAIL
- ④ TYPE 7 BARRIER (STYLE CA)
- ⑤ STA. 132+40.00 - TYPE 3H TRANSITION
- ⑥ TYPE 3 GUARDRAIL
- ⑦ STA. 134+40.00 - TYPE 3D
END ANCHORAGE
- ⑧ STA. 131+91.17 - TRANSITION TYPE 7
BARRIER TO MATCH BRIDGE RAIL
- ⑨ STA. 135+50.30 - TYPE 3G TRANSITION
- ⑩ TYPE 7 BARRIER (SEE I-25 PLANS)
- ⑪ BRIDGE RAIL (SEE BRIDGE PLANS)
- ⑫ WALL WITH BRIDGE RAIL
(SEE WALL PLANS)
- ⑬ LIMITS OF RAIL SLAB
(SEE WALL PLANS)



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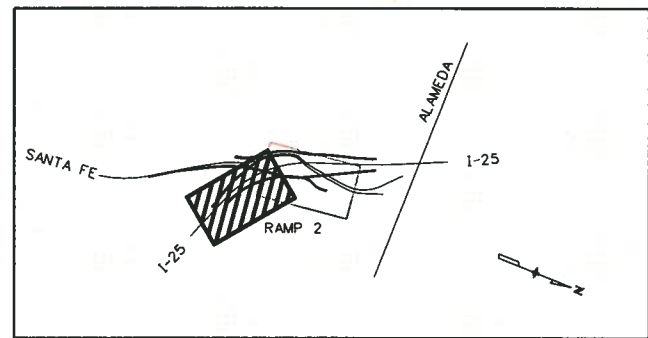
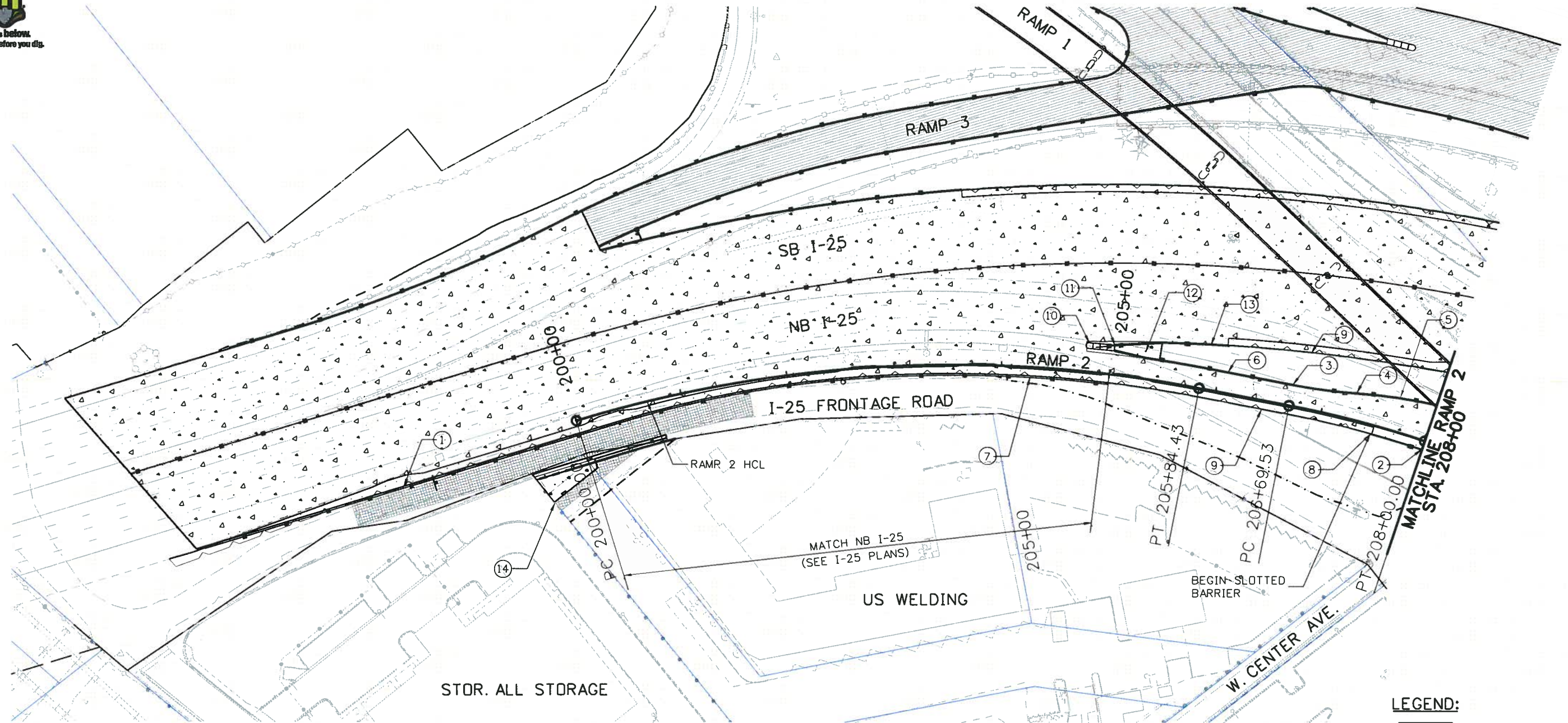
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MAPKEY

CONSTRUCTION NOTES:

- ① EDGE OF CONCRETE PAVEMENT (SEE TYPICAL SECTIONS).
- ② STA. 208-00.00 END CONCRETE PAVEMENT, BEGIN HMA PAVEMENT
- ③ STA. 206+69.53 BEGIN RAMP 2 TAPER (SEE TYPICAL SECTIONS)
- ④ RADIUS AT EDGE OF PAVEMENT = 496'
- ⑤ RADIUS AT EDGE OF PAVEMENT = 504'
- ⑥ TYPE 7 BARRIER (STYLE CA) (SEE I-25 PLANS)
- ⑦ TYPE 7 BARRIER (STYLE CD) ALONG BASE OF WALL (SEE WALL PLANS)
- ⑧ STA. 207+50.95 - END OF WALL, (BEGIN PRECAST BARRIER)
- ⑨ WALL WITH BRIDGE RAIL (SEE WALL PLANS)
- ⑩ IMPACT ATTENUATOR (SEE I-25 PLANS)

LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



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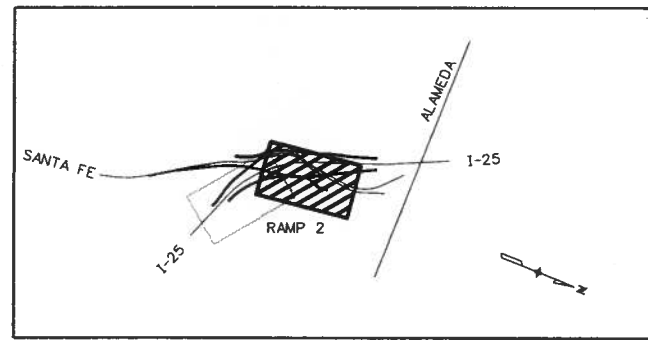
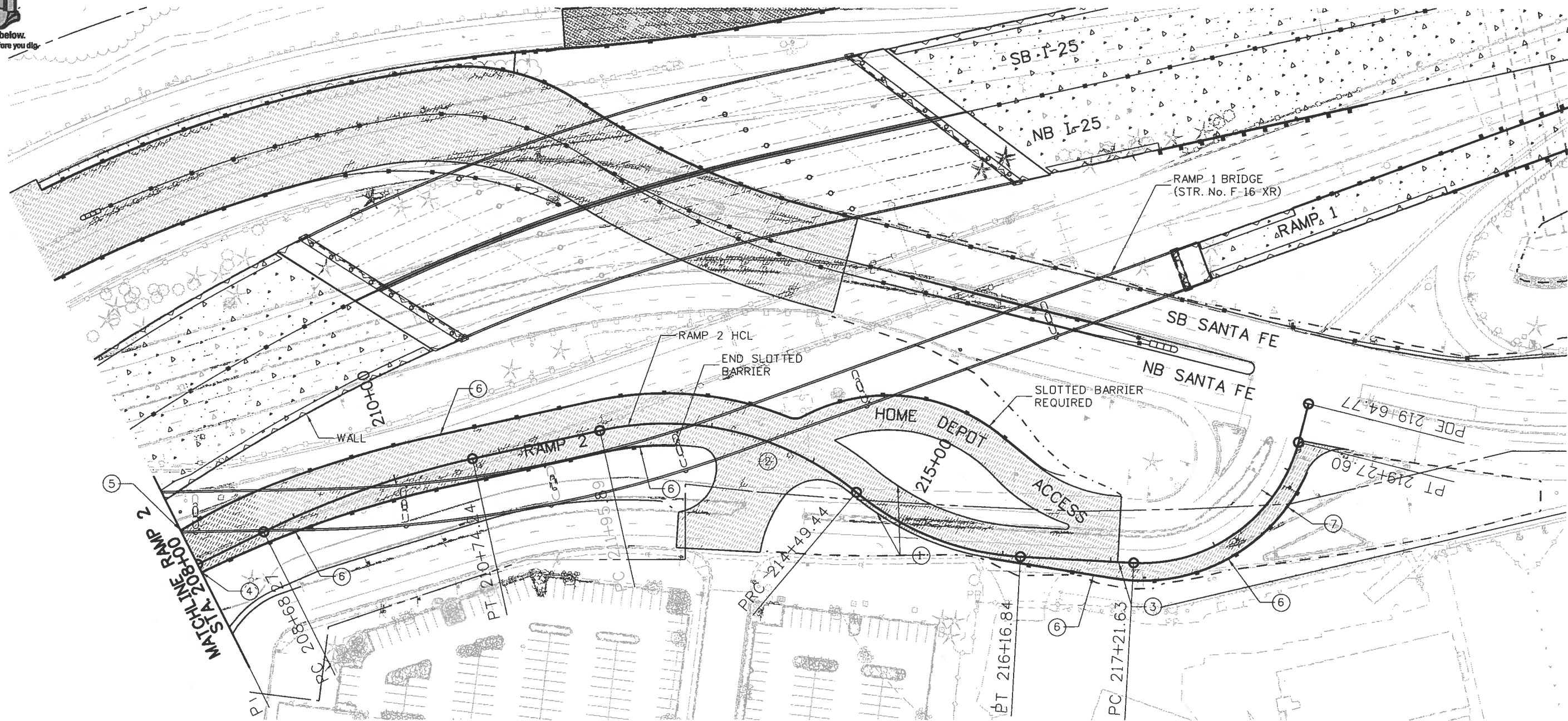
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Know what's below.
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MAPKEY

LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)

CONSTRUCTION NOTES:

- ① EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS).
- ② INTERSECTION WITH HOME DEPOT ACCESS ROAD (SEE HOME DEPOT PLANS).
- ③ STA. 217+06.69 - MATCH EXISTING ROADWAY SECTION
- ④ STA. 208+00 - BEGIN HMA PAVEMENT
- ⑤ STA. 208+00.00 - END TYPE 7 (STYLE CA), BEGIN PRECAST TYPE 7 CONCRETE BARRIER.
- ⑥ PRECAST TYPE 7 CONCRETE BARRIER
- ⑦ REMOVE EXISTING CURB AND GUTTER AS SHOWN - ADD HMA RIGHT TURN LANE (SEE TYPICAL SECTIONS) (SEE REMOVAL PLANS)



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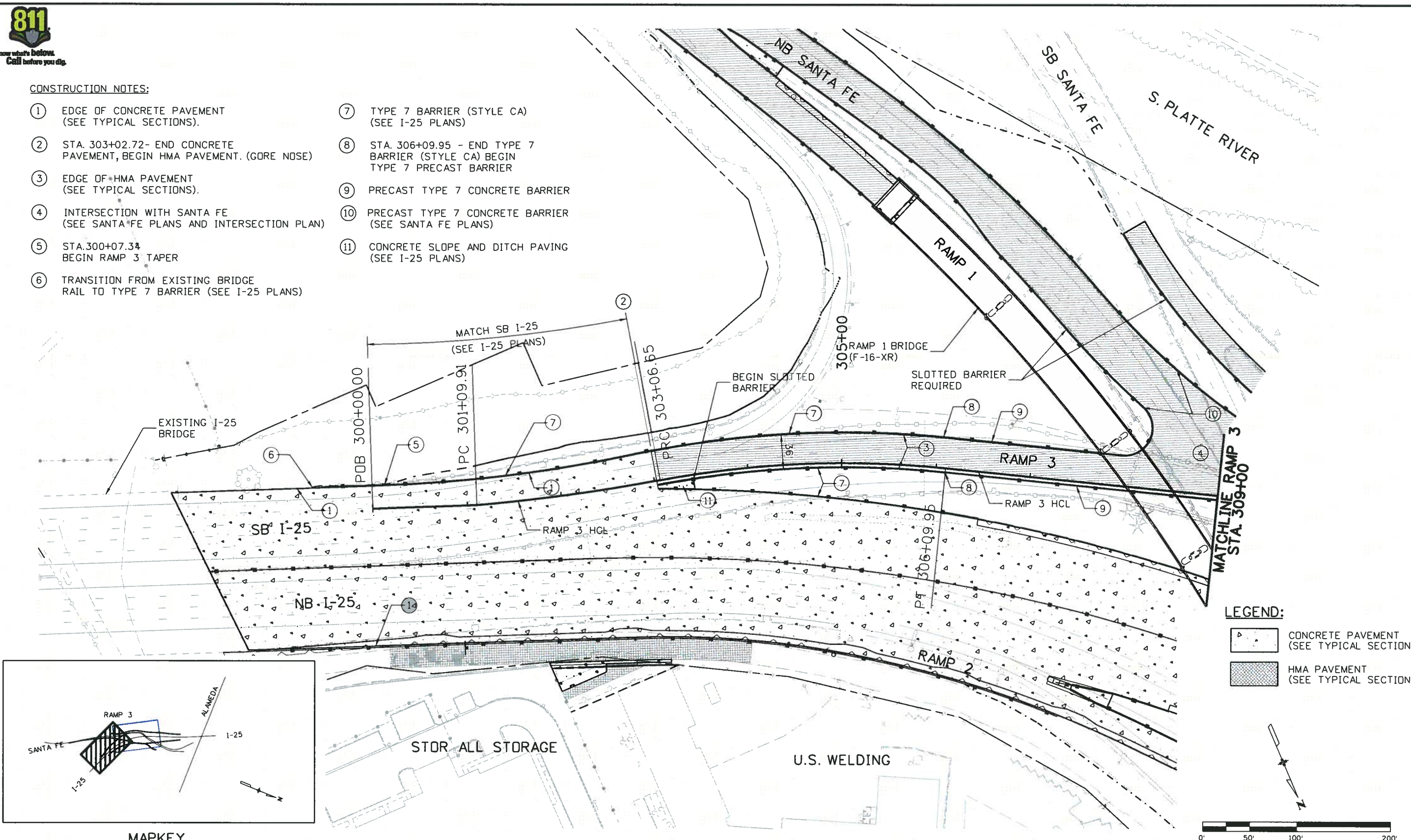
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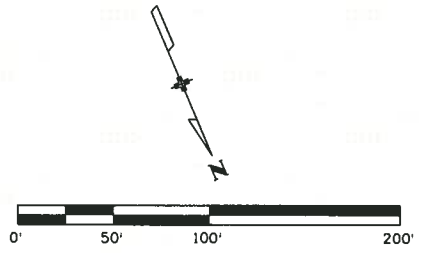
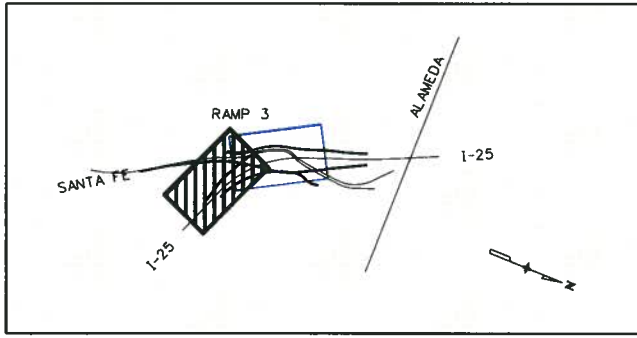
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- ① EDGE OF CONCRETE PAVEMENT (SEE TYPICAL SECTIONS).
- ② STA. 303+02.72- END CONCRETE PAVEMENT, BEGIN HMA PAVEMENT. (GORE NOSE)
- ③ EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS).
- ④ INTERSECTION WITH SANTA FE (SEE SANTA FE PLANS AND INTERSECTION PLAN)
- ⑤ STA. 300+07.34 BEGIN RAMP 3 TAPER
- ⑥ TRANSITION FROM EXISTING BRIDGE RAIL TO TYPE 7 BARRIER (SEE I-25 PLANS)
- ⑦ TYPE 7 BARRIER (STYLE CA) (SEE I-25 PLANS)
- ⑧ STA. 306+09.95 - END TYPE 7 BARRIER (STYLE CA) BEGIN TYPE 7 PRECAST BARRIER
- ⑨ PRECAST TYPE 7 CONCRETE BARRIER
- ⑩ PRECAST TYPE 7 CONCRETE BARRIER (SEE SANTA FE PLANS)
- ⑪ CONCRETE SLOPE AND DITCH PAVING (SEE I-25 PLANS)



LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



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CONSTRUCTION NOTES:

- ① INTERSECTION WITH SANTA FE (SEE SANTA FE PLANS AND INTERSECTION PLAN)
- ② EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS).
- ③ PRECAST TYPE 7 CONCRETE BARRIER (SEE SANTA FE PLANS)
- ④ TEMPORARY IMPACT ATTENUATOR (SEE SANTA FE PLANS)

SLOTTED BARRIER REQUIRED

310+00

312+16

PT 312+15.57

PC 309+92.7

312+16

312+16

312+16

312+16

312+16

312+16

SOUTH PLATTE RIVER

RAMP 3 HCL

RAMP 4 (EXISTING)

NB / SB SANTA FE

RAMP 4 (BY OTHERS)

MATCHLINE RAMP 3
STA 306+00

WALL

SB I-25

NB I-25

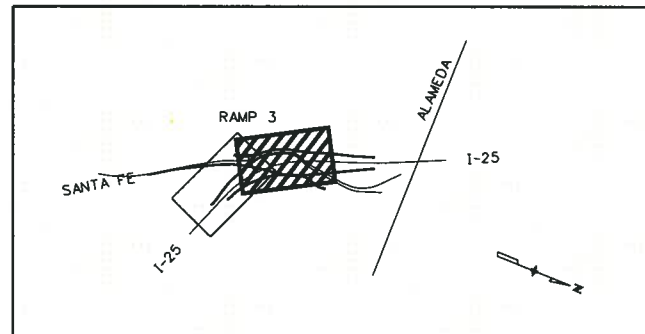
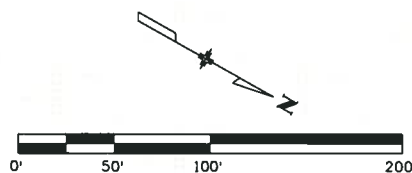
RAMP 2

RAMP 1

HOME DEPOT
PARKING LOT

LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



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Sheet Subset:	ROADWAY	Subset Sheets:	R3PL-2 of 2

Project No./Code
BR 0252-407
17783
Sheet Number 353 A

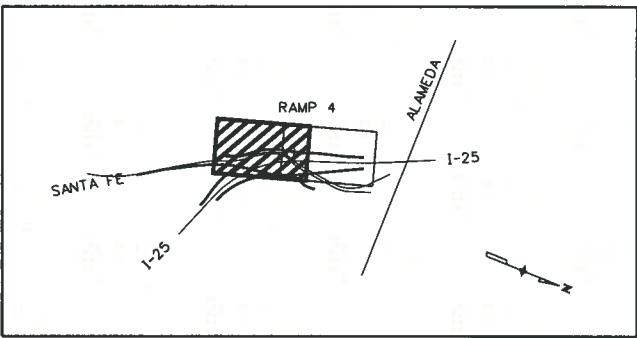
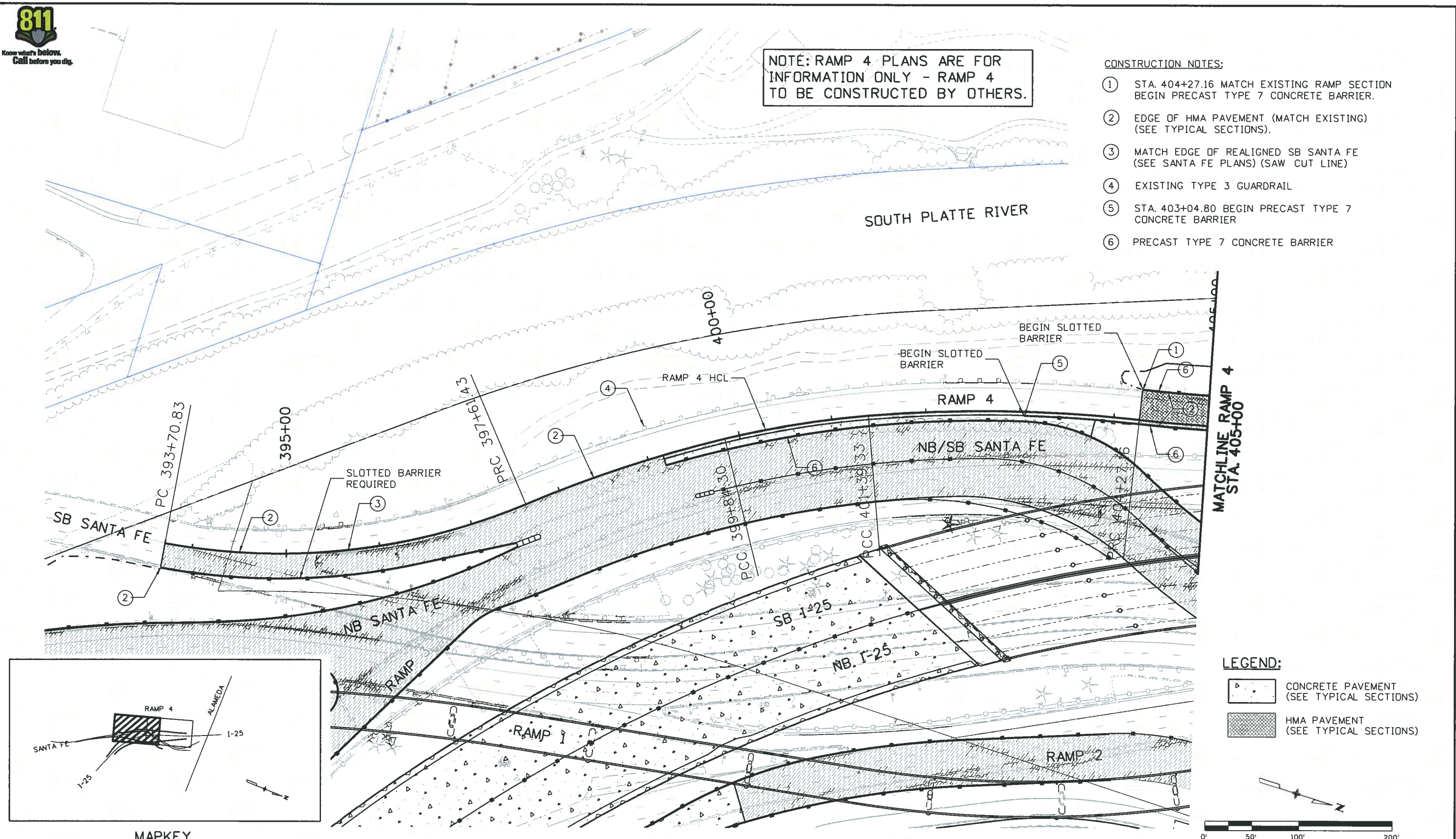
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NOTE: RAMP 4 PLANS ARE FOR INFORMATION ONLY - RAMP 4 TO BE CONSTRUCTED BY OTHERS.

CONSTRUCTION NOTES:

- ① STA. 404+27.16 MATCH EXISTING RAMP SECTION BEGIN PRECAST TYPE 7 CONCRETE BARRIER.
- ② EDGE OF HMA PAVEMENT (MATCH EXISTING) (SEE TYPICAL SECTIONS).
- ③ MATCH EDGE OF REALIGNED SB SANTA FE (SEE SANTA FE PLANS) (SAW CUT LINE)
- ④ EXISTING TYPE 3 GUARDRAIL
- ⑤ STA. 403+04.80 BEGIN PRECAST TYPE 7 CONCRETE BARRIER
- ⑥ PRECAST TYPE 7 CONCRETE BARRIER



MAPKEY

Print Date: 11/18/2010	
File Name: 16311DES_PH2_Ramp4Plan1.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.
12/3/2010	REISSUED SHEET	SPG

Colorado Department of Transportation

2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

As Constructed	No Revisions:
Revised:	
Void:	

I-25/SANTA FE INTERCHANGE			
RAMP 4 PLAN			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	ROADWAY	Subset Sheets:	R4PL-1 of 2

Project No./Code	BR 0252-407
	17783
Sheet Number	354 A

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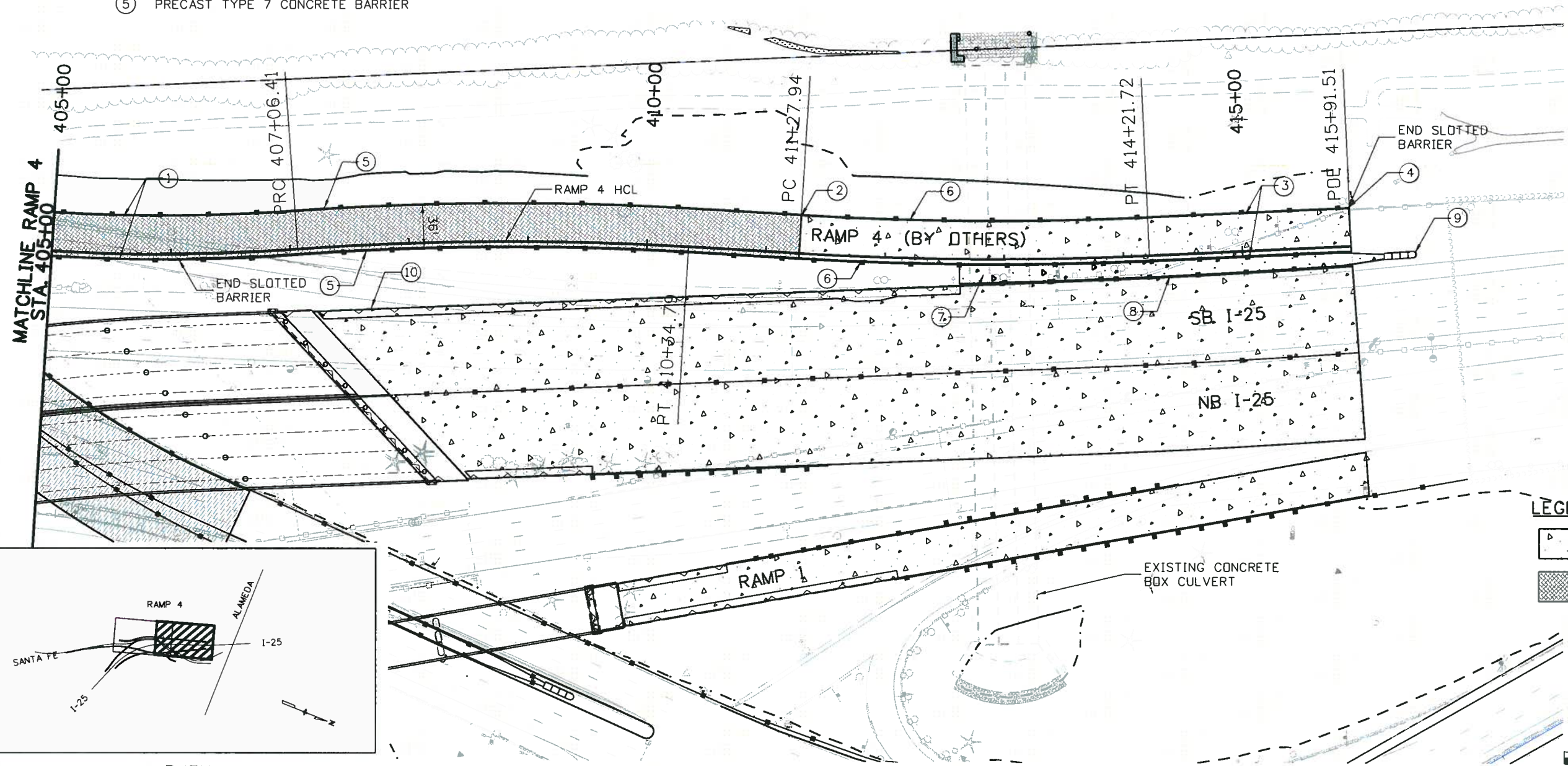


CONSTRUCTION NOTES:

- | | |
|--|--|
| ① EDGE OF HMA PAVEMENT
(SEE TYPICAL SECTIONS). | ⑥ GUARD RAIL TYPE 7 BARRIER (STYLE CA) |
| ② STA. 411+27.94 END HMA PAVEMENT,
BEGIN CONCRETE PAVING,
END PRECAST TYPE 7 CONCRETE BARRIER,
BEGIN GUARD RAIL TYPE 7 BARRIER (STYLE CA) | ⑦ CONCRETE PAVING
(SEE I-25 PLANS) |
| ③ EDGE OF CONCRETE PAVEMENT
(SEE TYPICAL SECTIONS). | ⑧ GUARD RAIL TYPE 7 BARRIER (STYLE CE)
(SEE I-25 PLANS) |
| ④ STA. 415+91.51 TRANSITION TYPE 7 BARRIER
TO MATCH EXISTING BARRIER. | ⑨ IMPACT ATTENUATOR
(SEE I-25 PLANS) |
| ⑤ PRECAST TYPE 7 CONCRETE BARRIER | ⑩ WALL WITH BRIDGE RAIL
(SEE WALL PLANS) |

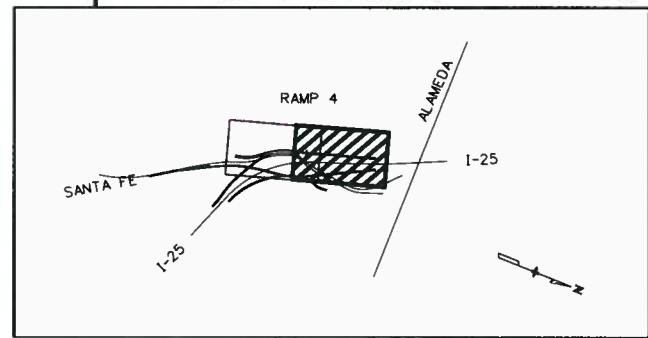
NOTE: RAMP 4 PLANS ARE FOR INFORMATION ONLY - RAMP 4 TO BE CONSTRUCTED BY OTHERS.

SOUTH PLATTE RIVER



LEGEND:

- CONCRETE PAVING
(SEE TYPICAL SECTIONS)
- HMA PAVING
(SEE TYPICAL SECTIONS)



MAPKEY



Print Date: 11/18/2010	Sheet Revisions			Colorado Department of Transportation		As Constructed		I-25/SANTA FE INTERCHANGE		Project No./Code	
File Name: 16311DES_PH2_Ramp4Plan2.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6		No Revisions:		RAMP 4 PLAN		BR 0252-407	
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Unit Information Unit Leader Initials				6300 South Syracuse Way Centennial, CO 80111		Void:		Detailer: SYS	Sheet Number 355 A		
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W. MISSISSIPPI AVE.

W. TENNESSEE AVE.

VANDERBILT PARK

SOUTH PLATTE RIVER

SB SANTA FE (EXISTING)

NB SANTA FE (EXISTING)

NB-SANTA FE HCL

MATCHLINE NB SANTA FE STA. 708+00

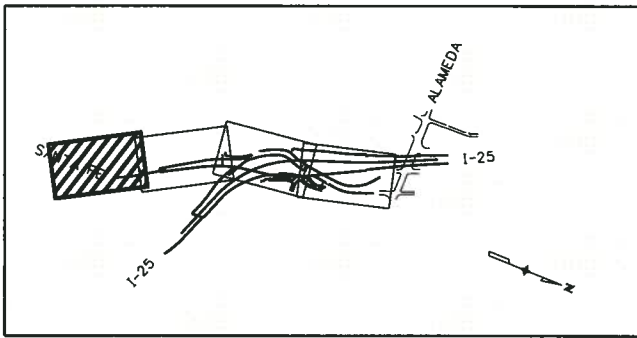
INSTALL 250 FEET OF GUARDRAIL TYPE 3 (6' - 3" SPACING) WITH END ANCHORAGE (NON-FLARED) ON SOUTH END AND TYPE 3D END ANCHORAGE ON NORTH END (TYPICAL EACH SIDE OF NB SANTA FE). POSITION TO OVERHEAD SIGN STRUCTURE POST PER CDDT STANDARD M-606-1). (SEE GUIDE SIGN PLAN GS-1).

PC 700+00.00

705+00

PT 707+72.70

GATES REDEVELOPMENT



MAPKEY

LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)

Print Date: 11/18/2010	
File Name: 16311DES_PH2_SantaFePlan1.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
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Void:

I-25/SANTA FE INTERCHANGE			
SANTA FE ROADWAY PLAN			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	ROADWAY	Subset Sheets:	SFPL-1 of 4

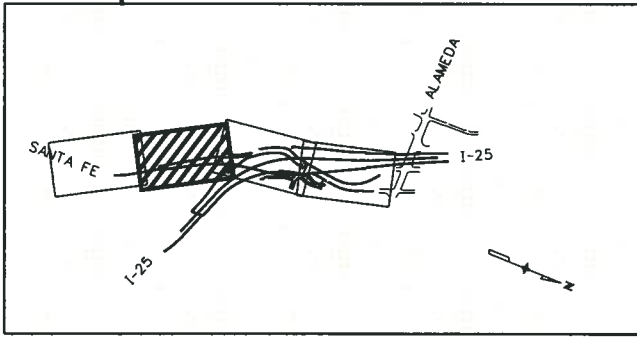
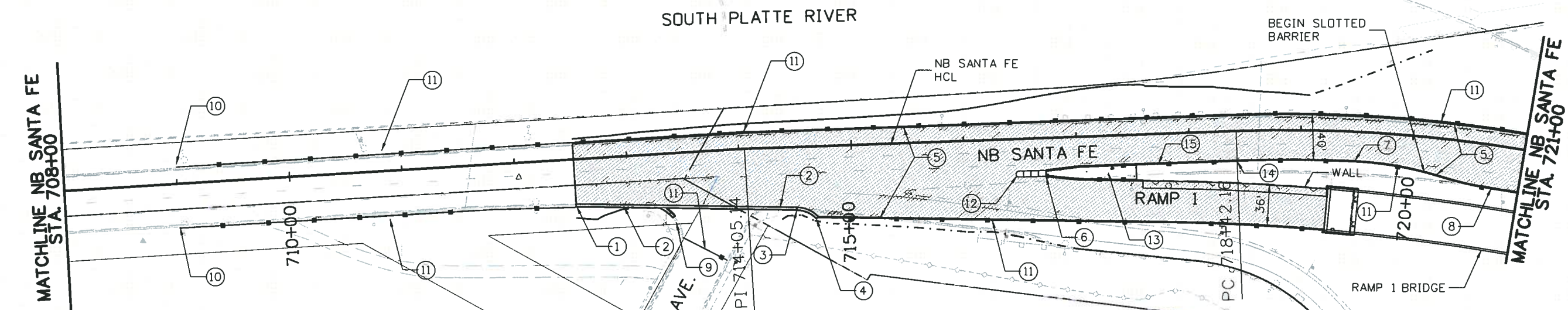
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Sheet Number	356 A

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CONSTRUCTION NOTES:

- ① BEGIN NB SANTA FE CONSTRUCTION, MATCH EXISTING CURB AND GUTTER (FLOWLINE STA. 712+52.54)
- ② CURB AND GUTTER TYPE 2 (SEC. IIB) (CATCH).
- ③ PCR (FLOWLINE STA. 714+49.90, 55.73' RT, RAD.= 25').
- ④ END OF CURB (FLOWLINE STA. 714+67.26, 64.03' RT, RAD.= 25').
- ⑤ EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS).
- ⑥ GORE NOSE- STA. 716+72.37 (PROVIDE OPENINGS IN BARRIERS FOR DRAINAGE).
- ⑦ BEGIN AUX. LANE TAPER- STA. 719+49.18, 26.00' RT (R=300' @ EOP)
- ⑧ END AUX. LANE TAPER- STA. 720+75.37, 38.00' RT (R=300' @ EOP)
- ⑨ CONSTRUCT CURB & GUTTER 'CONFLUENCE' CURBING TO MERGE GUTTER FLOWS FROM THE SOUTH SIDE OF OHIO AND THE EAST SIDE OF SANTA FE.
- ⑩ STA. 709+00 - BEGIN PRECAST TYPE 7 CONCRETE BARRIER



- LEGEND:**
- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
 - HMA PAVEMENT (SEE TYPICAL SECTIONS)

CONSTRUCTION NOTES CDNT:

- ⑪ PRECAST TYPE 7 CONCRETE BARRIER
- ⑫ IMPACT ATTENUATOR (SEE RAMP 1)
- ⑬ CONCRETE SLOPE AND DITCH PAVING (SEE RAMP 1)
- ⑭ STA. 718+42.16 - END TYPE 7 BARRIER (STYLE CA), BEGIN PRECAST TYPE 7 CONCRETE BARRIER
- ⑮ TYPE 7 BARRIER (STYLE CA)
- ⑯ TYPE 7 BARRIER (STYLE CE) (SEE RAMP 1)



Print Date: 11/18/2010
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I-25/SANTA FE INTERCHANGE
SANTA FE ROADWAY PLAN
 Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: SFPL-2 of 4

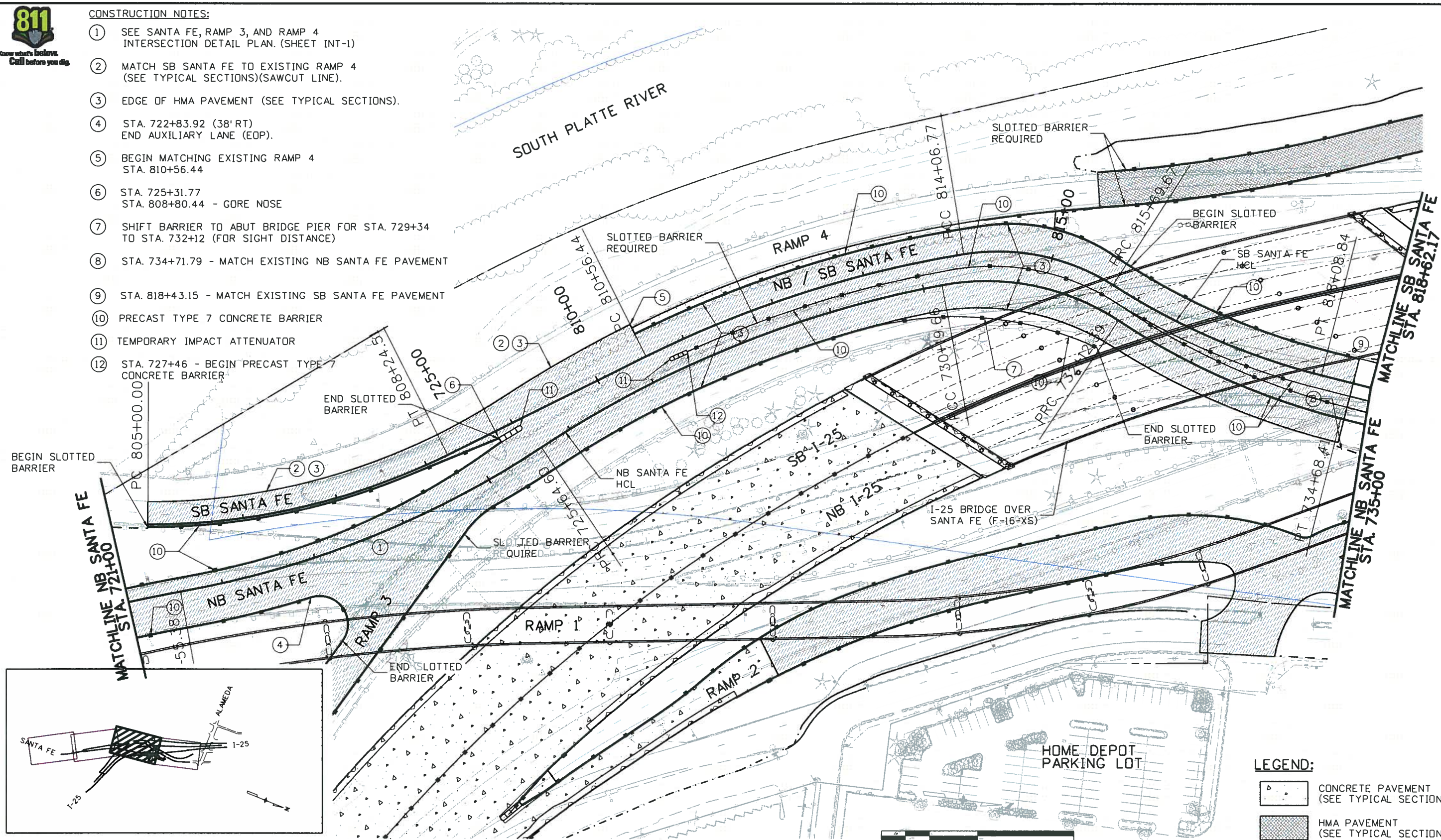
Project No./Code
 BR 0252-407
 17783
 Sheet Number 357 A

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CONSTRUCTION NOTES:

- ① SEE SANTA FE, RAMP 3, AND RAMP 4 INTERSECTION DETAIL PLAN. (SHEET INT-1)
- ② MATCH SB SANTA FE TO EXISTING RAMP 4 (SEE TYPICAL SECTIONS)(SAWCUT LINE).
- ③ EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS).
- ④ STA. 722+83.92 (38' RT) END AUXILIARY LANE (EOP).
- ⑤ BEGIN MATCHING EXISTING RAMP 4 STA. 810+56.44
- ⑥ STA. 725+31.77 STA. 808+80.44 - GORE NOSE
- ⑦ SHIFT BARRIER TO ABUT BRIDGE PIER FOR STA. 729+34 TO STA. 732+12 (FOR SIGHT DISTANCE)
- ⑧ STA. 734+71.79 - MATCH EXISTING NB SANTA FE PAVEMENT
- ⑨ STA. 818+43.15 - MATCH EXISTING SB SANTA FE PAVEMENT
- ⑩ PRECAST TYPE 7 CONCRETE BARRIER
- ⑪ TEMPORARY IMPACT ATTENUATOR
- ⑫ STA. 727+46 - BEGIN PRECAST TYPE CONCRETE BARRIER



LEGEND:

	CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
	HMA PAVEMENT (SEE TYPICAL SECTIONS)

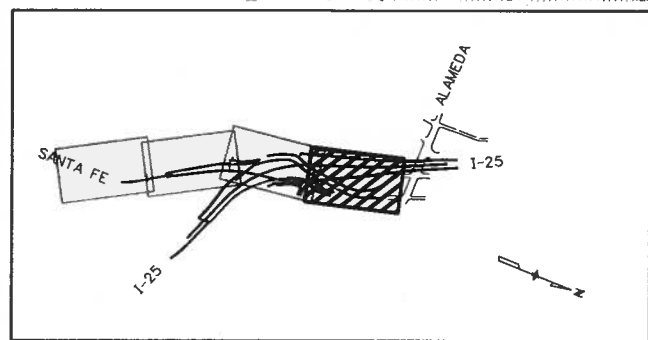
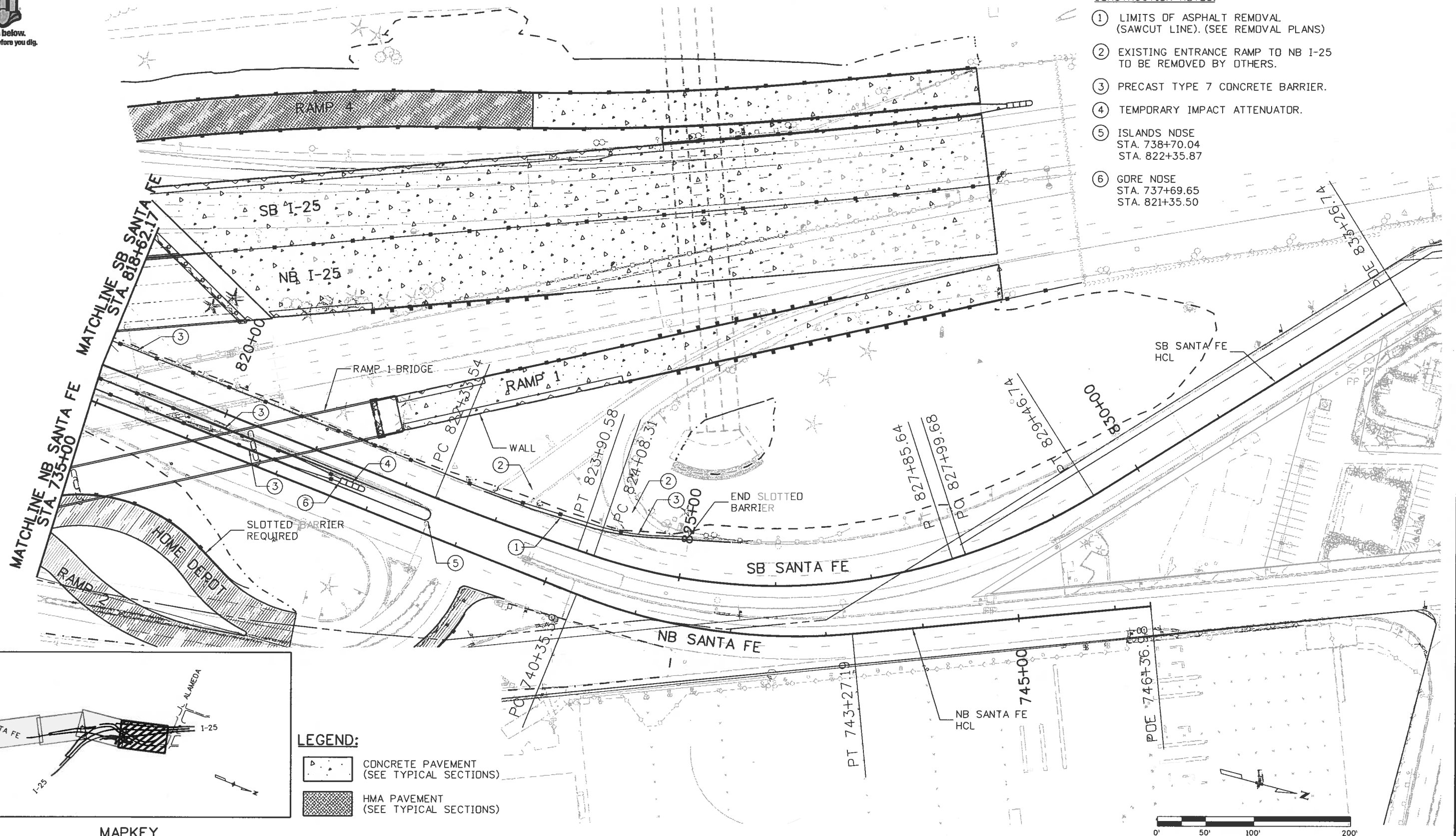
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Horiz. Scale: 1:100 Vert. Scale: As Noted	12/3/2010	REISSUED SHEET	SPG		Revised:	Designer: SPG	Structure Numbers	17783
Unit Information Unit Leader Initials					Void:	Detailer: SYS	Subset Sheets: SFPL-3of 4	Sheet Number 358 A

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CONSTRUCTION NOTES:

- ① LIMITS OF ASPHALT REMOVAL (SAWCUT LINE). (SEE REMOVAL PLANS)
- ② EXISTING ENTRANCE RAMP TO NB I-25 TO BE REMOVED BY OTHERS.
- ③ PRECAST TYPE 7 CONCRETE BARRIER.
- ④ TEMPORARY IMPACT ATTENUATOR.
- ⑤ ISLANDS NOSE
STA. 738+70.04
STA. 822+35.87
- ⑥ GDRE NOSE
STA. 737+69.65
STA. 821+35.50



LEGEND:

- CONCRETE PAVEMENT (SEE TYPICAL SECTIONS)
- HMA PAVEMENT (SEE TYPICAL SECTIONS)



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Unit Information	Unit Leader Initials
FELSBURG HOLT & WILLEVIG 6300 South Syracuse Way Centennial, CO 80111	

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Date:	Comments	Init.
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Region 6 **RLB**

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Void:

I-25/SANTA FE INTERCHANGE			
SANTA FE ROADWAY PLAN			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	ROADWAY	Subset Sheets:	SFPL-4 of 4

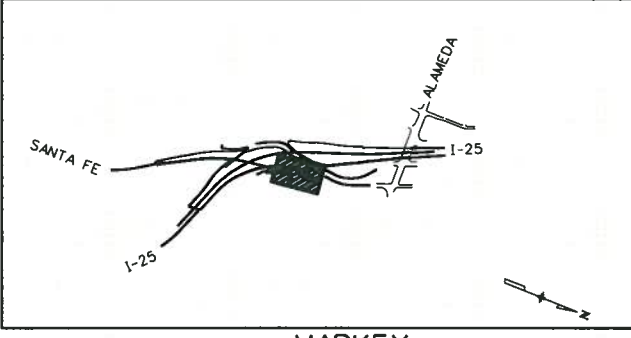
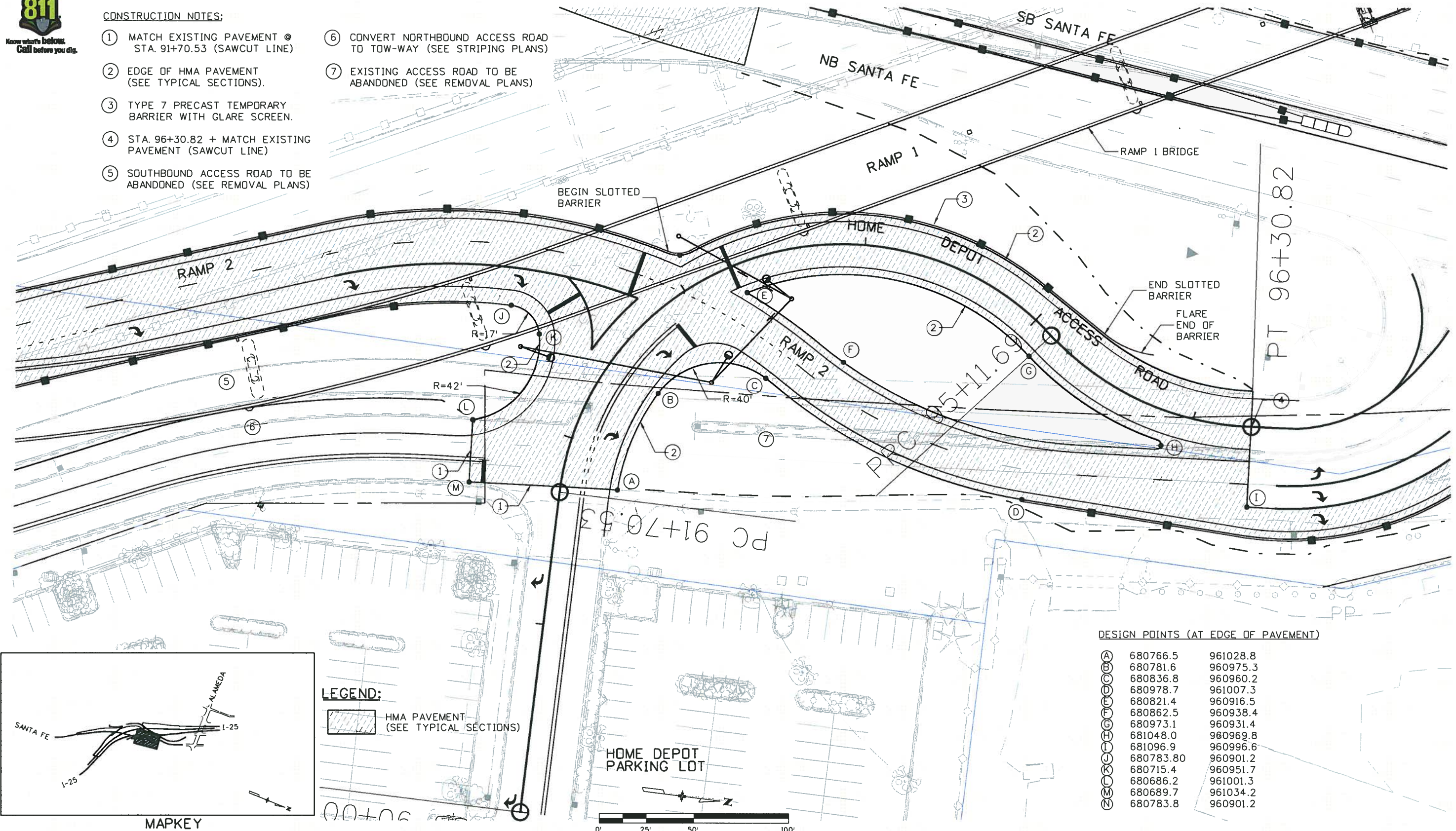
Project No./Code
BR 0252-407
17783
Sheet Number 359 A

811

Know what's below.
Call before you dig.

CONSTRUCTION NOTES:

- ① MATCH EXISTING PAVEMENT @ STA. 91+70.53 (SAWCUT LINE)
- ② EDGE OF HMA PAVEMENT (SEE TYPICAL SECTIONS)
- ③ TYPE 7 PRECAST TEMPORARY BARRIER WITH GLARE SCREEN.
- ④ STA. 96+30.82 + MATCH EXISTING PAVEMENT (SAWCUT LINE)
- ⑤ SOUTHBOUND ACCESS ROAD TO BE ABANDONED (SEE REMOVAL PLANS)
- ⑥ CONVERT NORTHBOUND ACCESS ROAD TO TOW-WAY (SEE STRIPING PLANS)
- ⑦ EXISTING ACCESS ROAD TO BE ABANDONED (SEE REMOVAL PLANS)



LEGEND:
 HMA PAVEMENT (SEE TYPICAL SECTIONS)

DESIGN POINTS (AT EDGE OF PAVEMENT)

(A)	680766.5	961028.8
(B)	680781.6	960975.3
(C)	680836.8	960960.2
(D)	680978.7	961007.3
(E)	680821.4	960916.5
(F)	680862.5	960938.4
(G)	680973.1	960931.4
(H)	681048.0	960969.8
(I)	681096.9	960996.6
(J)	680783.80	960901.2
(K)	680715.4	960951.7
(L)	680686.2	961001.3
(M)	680689.7	961034.2
(N)	680783.8	960901.2

Print Date: 11/18/2010
 File Name: 16311DES_PH2_HomeDepotPlan1.dgn
 Horiz. Scale: 1:50 Vert. Scale: As Noted
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FELSBURG
HOLT & HILLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111

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I-25/SANTA FE INTERCHANGE
HOME DEPOT ACCESS PLAN
 Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: HPL-1 of 1

Project No./Code
 BR 0252-407
 17783
 Sheet Number 361 A

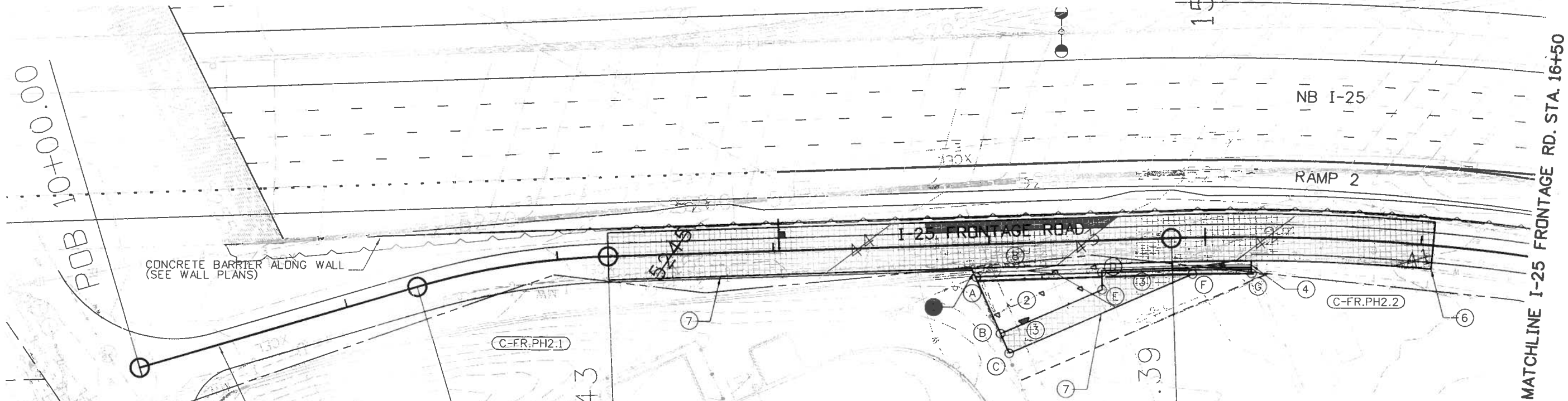
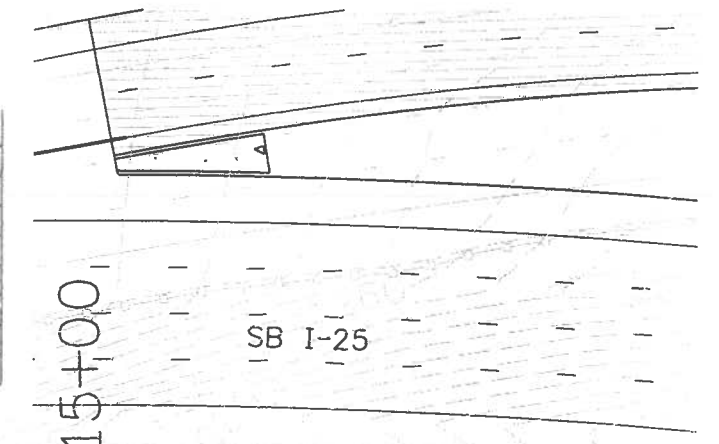
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Know what's below.
Call before you dig.

CONTROL LINE DATA - I-25 Frontage Road

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	CURVE DATA							
					PC	PI	PT	DELTA	R	L	T	
POB	N 83°23'14" W	133.828	679655.9686	962149.8900		10+00.000						
PI C-FR.PH2.1	N 68°55'35" W	373.383	679676.5664	961972.2137	11+33.828		12+23.426	14°27'39"	355.000	89.599	45.039	
PI C-FR.PH2.2	N 57°12'38" W	235.879	679823.0060	961592.1859	14+84.390		16+86.212	11°42'57"	987.000	201.822	101.264	
PI C-FR.PH2.3	N 50°40'07" W	211.043	679914.3362	961450.4120	16+86.212		18+20.827	6°32'31"	1179.000	134.615	67.381	
PI C-FR.PH2.4	N 27°28'56" W	179.893	680003.2008	961341.9617	18+20.827		19+64.489	23°11'12"	355.000	143.662	72.828	
POE			680162.7937	961258.9463		20+71.554						



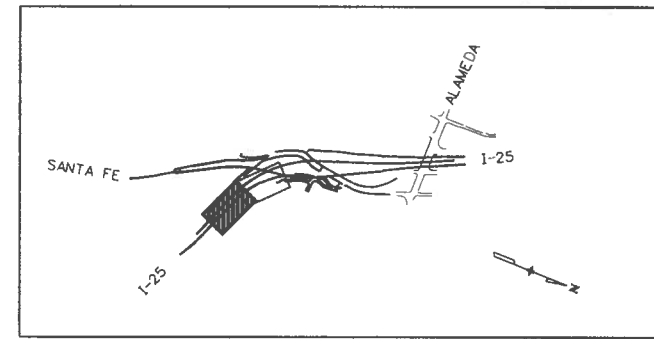
MATCHLINE I-25 FRONTAGE RD. STA. 16+50

PC 11+33.83
PT 12+23.43
PC 14+84.39

CONSTRUCTION POINTS

Point	Station	Offset
A	STA. 13+93.06	15.00' RT
B	STA. 14+03.88	41.80' RT
C	STA. 14+07.58	51.15' RT
D	STA. 14+51.50	15.00' RT
E	STA. 14+51.50	23.00' RT
F	STA. 14+93.86	17.00' RT
G	STA. 15+21.30	17.00' RT

- CONSTRUCTION NOTES:
- STA. 13+92.47 (13' RT) - BEGIN TYPE 2 CURB (F.L. EL.=5247.27 (MATCH EXISTING))
 - 8 INCH CONCRETE PAVEMENT
 - 6.5 INCH HMA
 - STA 15+21.30 (13' RT) - END TYPE 2 CURB (F.L. EL.=5241.73)
 - STA. 12+23.43 - BEGIN FRONTAGE ROAD (MATCH EXISTING)
 - STA. 16+05.58 - END FRONTAGE ROAD (MATCH EXISTING)
 - LIMITS OF ASPHALT REMOVAL
 - ADJUST EXISTING MANHOLE AND VALVE BOX (SEE UTILITY PLANS)



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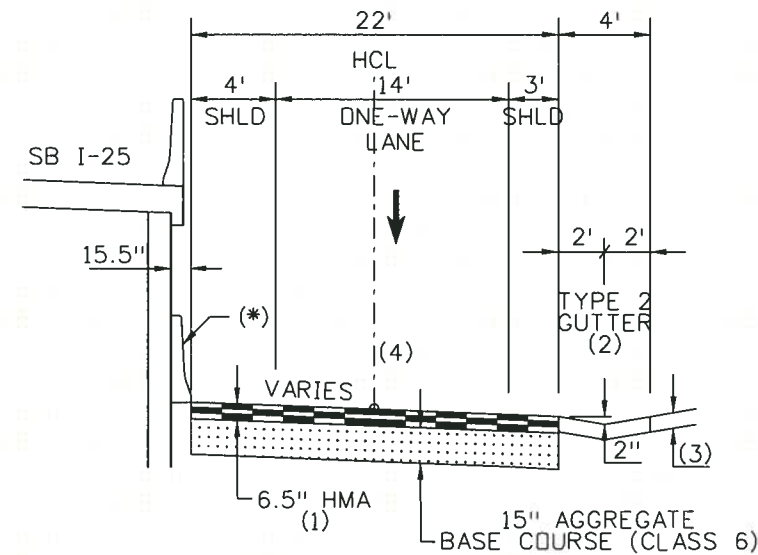
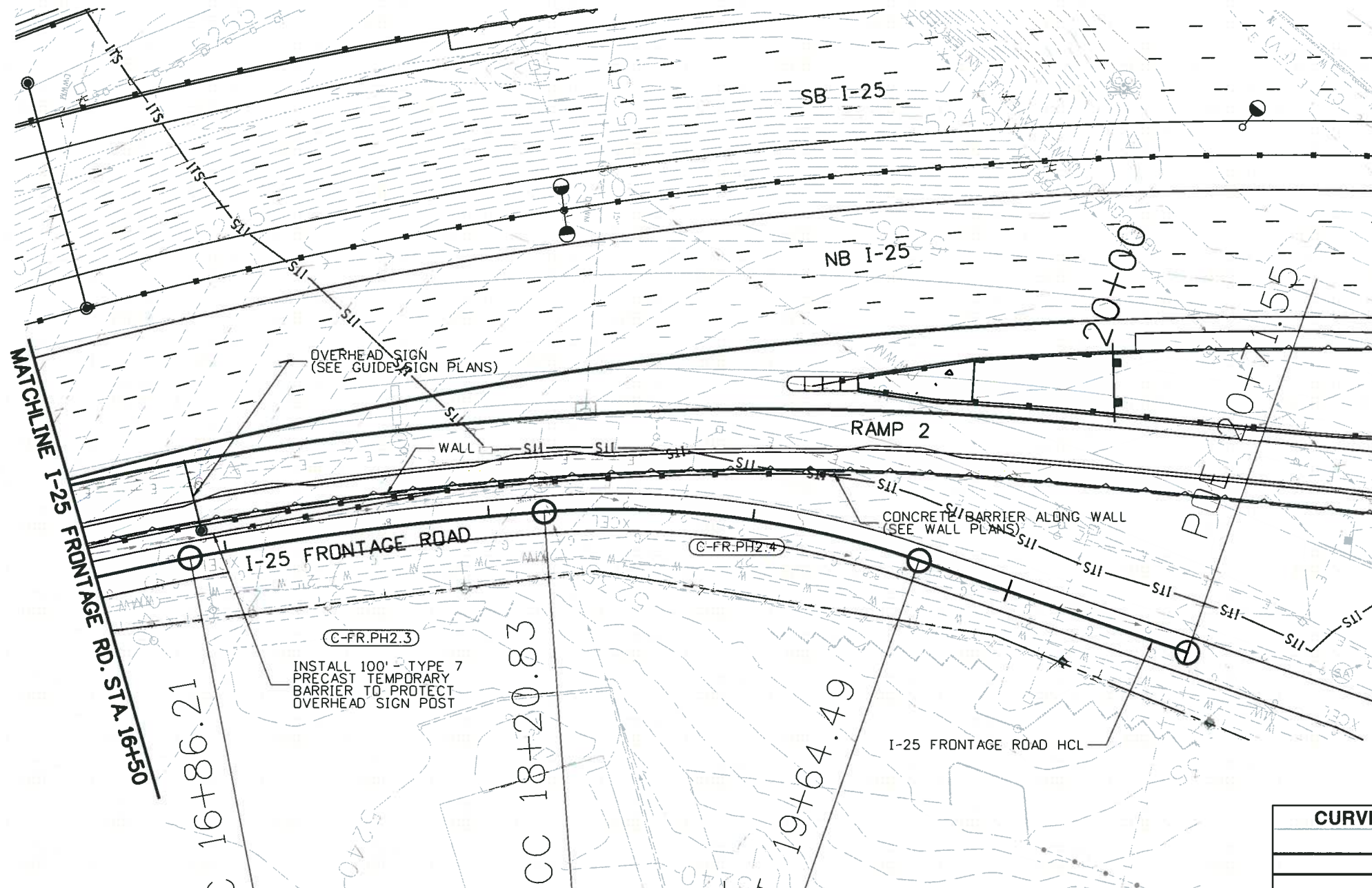
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	HMA PAVEMENT

STOR. ALL STORAGE



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File Name: 16311DES_PH2_FrontageRdPlan1.dgn	Date:	Comments	Init.	2000 South Holly Street Denver, CO 80222 Phone: 303-972-9112 FAX: 303-972-9114 Region 6 RLB	No Revisions:	I-25 FRONTAGE ROAD PLAN		BR 0252-407
Horiz. Scale: 1:50	12/3/2010	REISSUED SHEET	SPG		Revised:	Designer: SPG	Structure Numbers	17783
Unit Information					Void:	Detailer: SYS		
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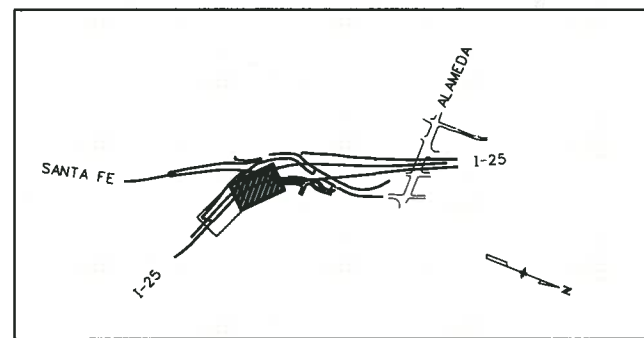
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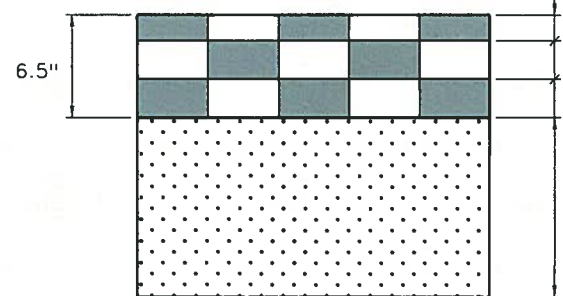
- (*) TYPE 7 BARRIER (STYLE CD) SEE WALL PLANS
- (1) 6.5" MINIMUM THICKNESS, MATCH EXISTING THICKNESS IF GREATER THAN 6.5 INCHES.
- (2) SEE PLAN FOR LIMITS OF TYPE 2 GUTTER
- (3) 8 INCH CONCRETE OR 6.5 INCH HMA
- (4) SEE CONTOURS SHEET FRPL-1

I-25 FRONTAGE ROAD
 (STA. 12+23.43 TO STA. 16+05.58)
 (SHEET FRPL-1)

CURVE	CENTRAL ANGLE (degree)	RADIUS AT HCL (feet)	LENGTH (feet)
I-25 FRONTAGE RD			
C-FR.PH2.1	14deg27'39"	355.00	89.60
C-FR.PH2.2	11deg42'57"	987.00	201.82
C-FR.PH2.3	06deg32'31"	1179.00	134.62
C-FR.PH2.4	23deg11'12"	355.00	143.66



MAPKEY



FRONTAGE ROAD
HMA PAVEMENT DETAIL

2" HMA (GRADING SX)(100)(PG 76-28)
 2" HMA (GRADING S)(100)(PG 64-22)
 2.5" HMA (GRADING S)(100)(PG 64-22)
 15" AGGREGATE BASE COURSE (CLASS 6)

US WELDING



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 Region 6 RLB

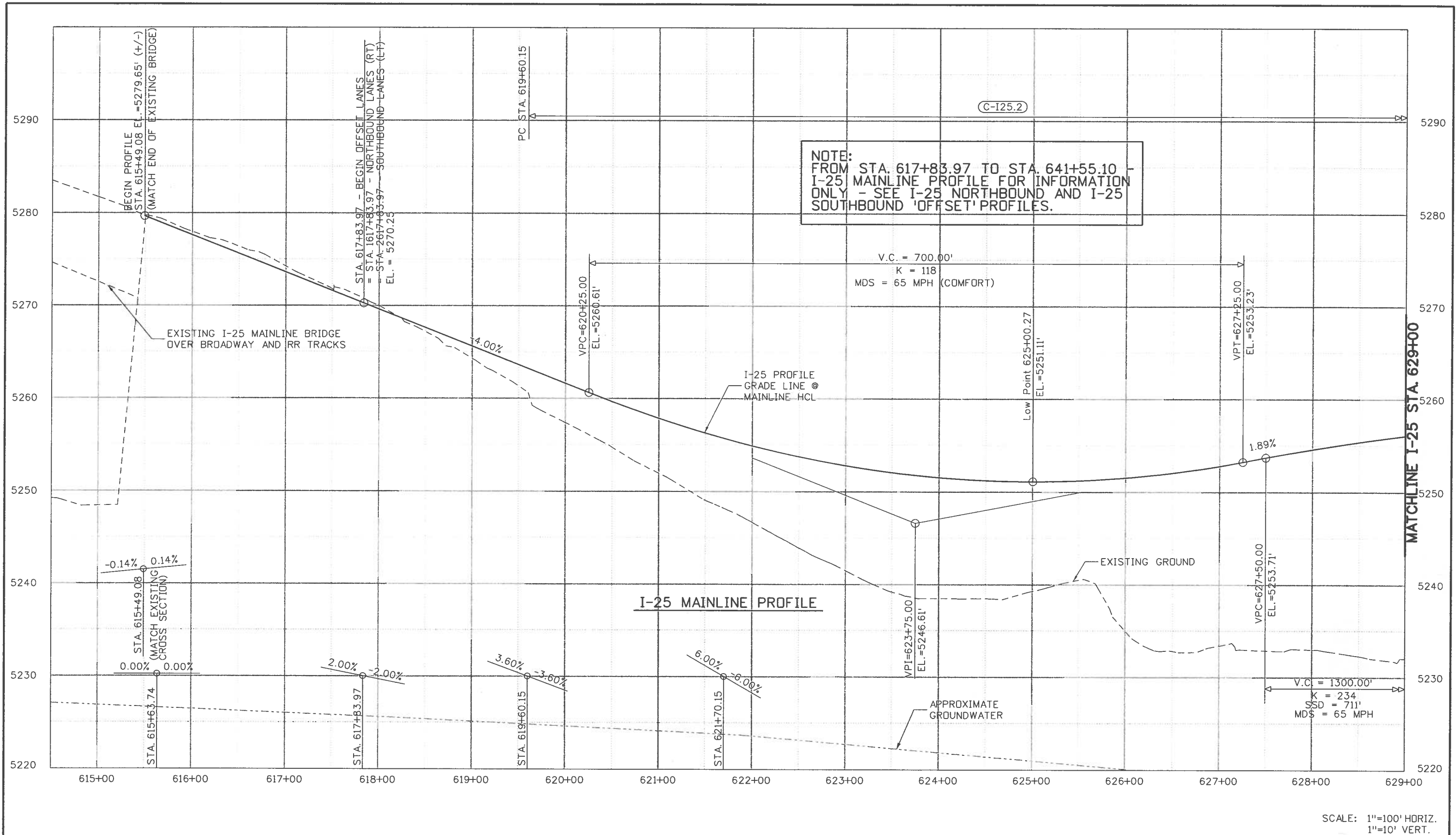
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I-25/SANTA FE INTERCHANGE
 I-25 FRONTAGE ROAD PLAN
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 Detailer: SYS
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Project No./Code
 BR 0252-407
 17783
 Sheet Number 363 A

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File Name: 16311DES_PH2_I25Pro1.dgn	
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Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

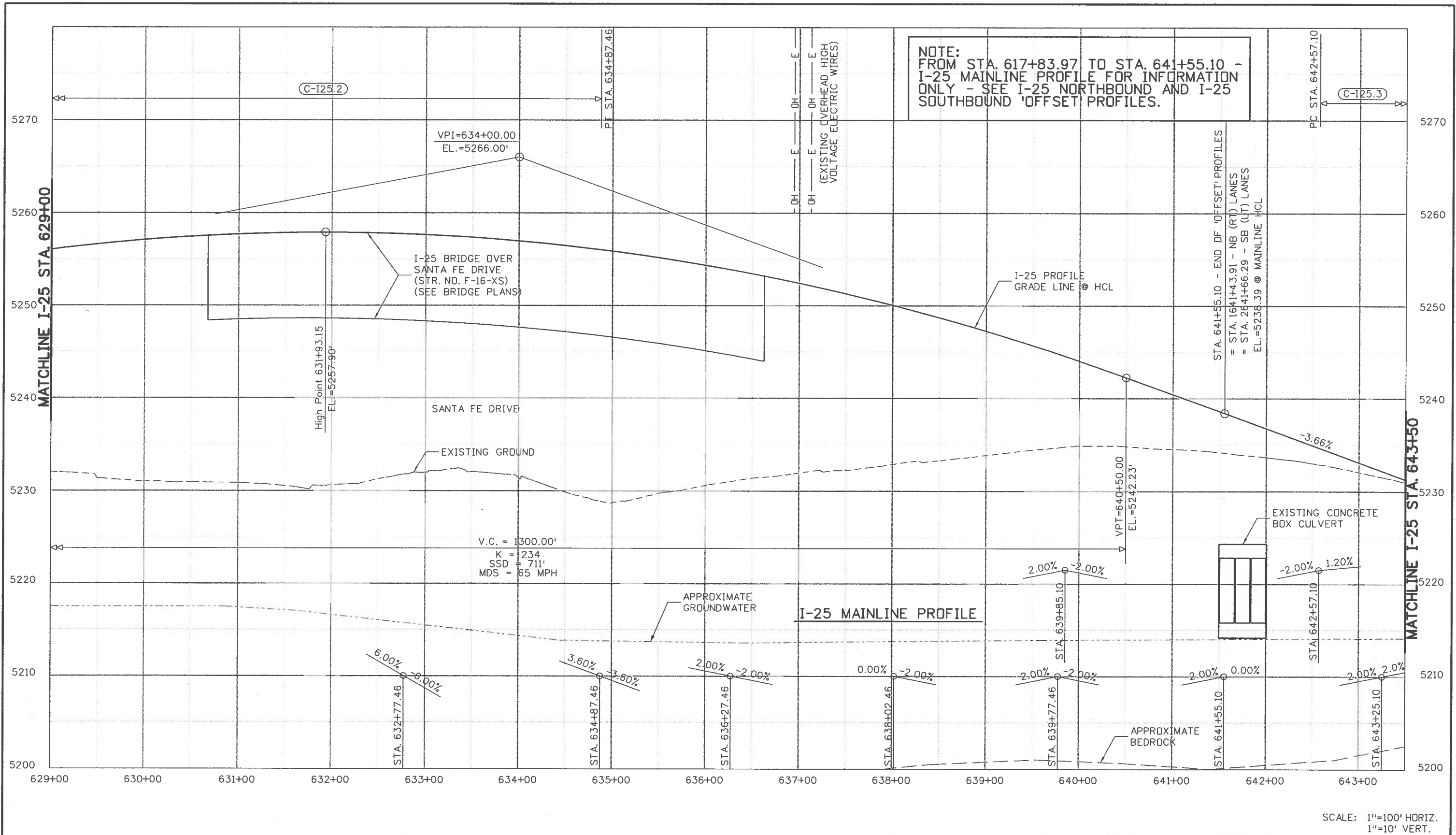
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Project No./Code
BR 0252-407
17783
Sheet Number 364 A

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1"=10' VERT.

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Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

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 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

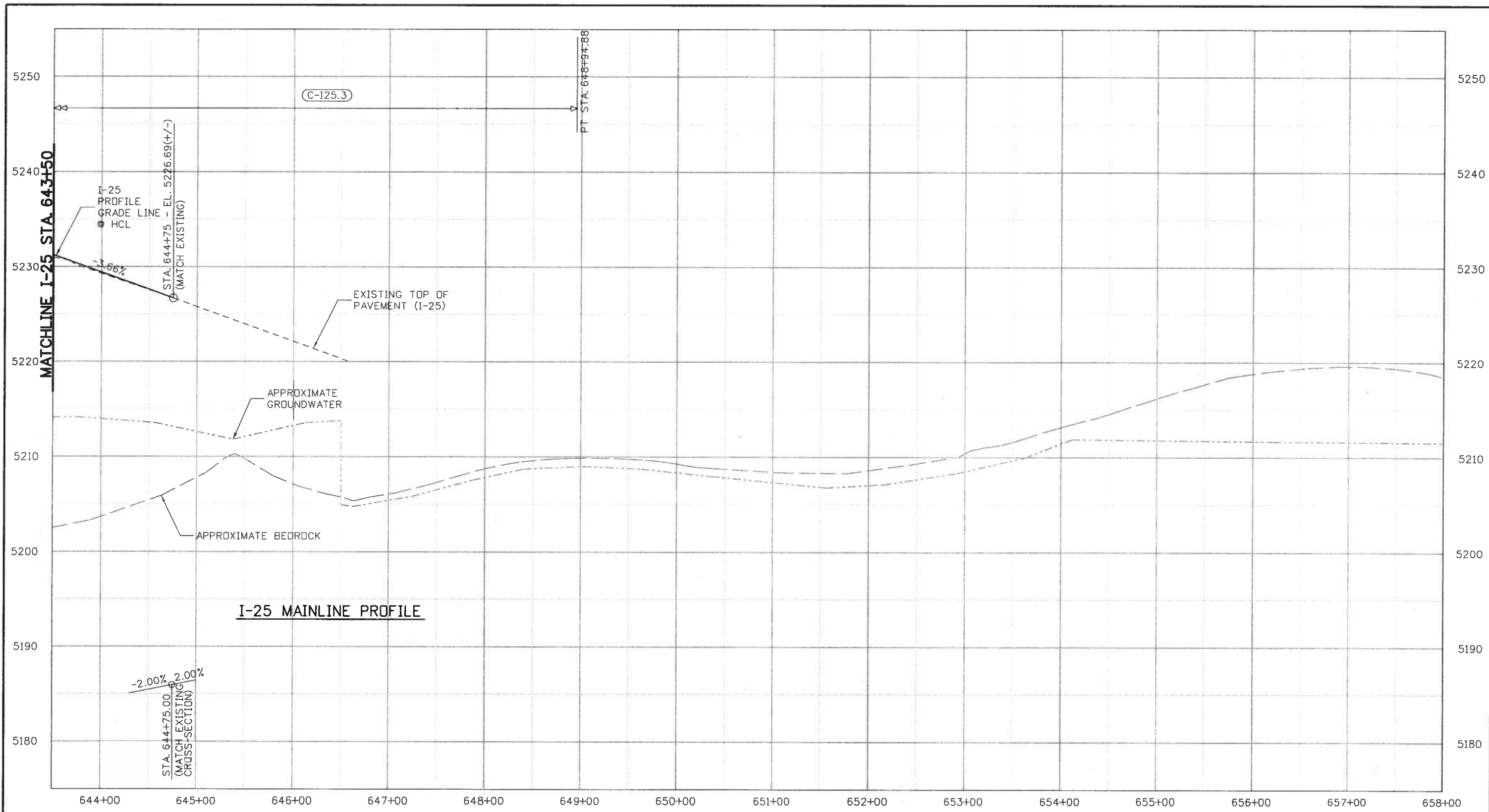
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Sheet Subset:	PROFILE	Subset Sheets:	IPR-2 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 365 A

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1"=10' VERT.

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Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

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Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

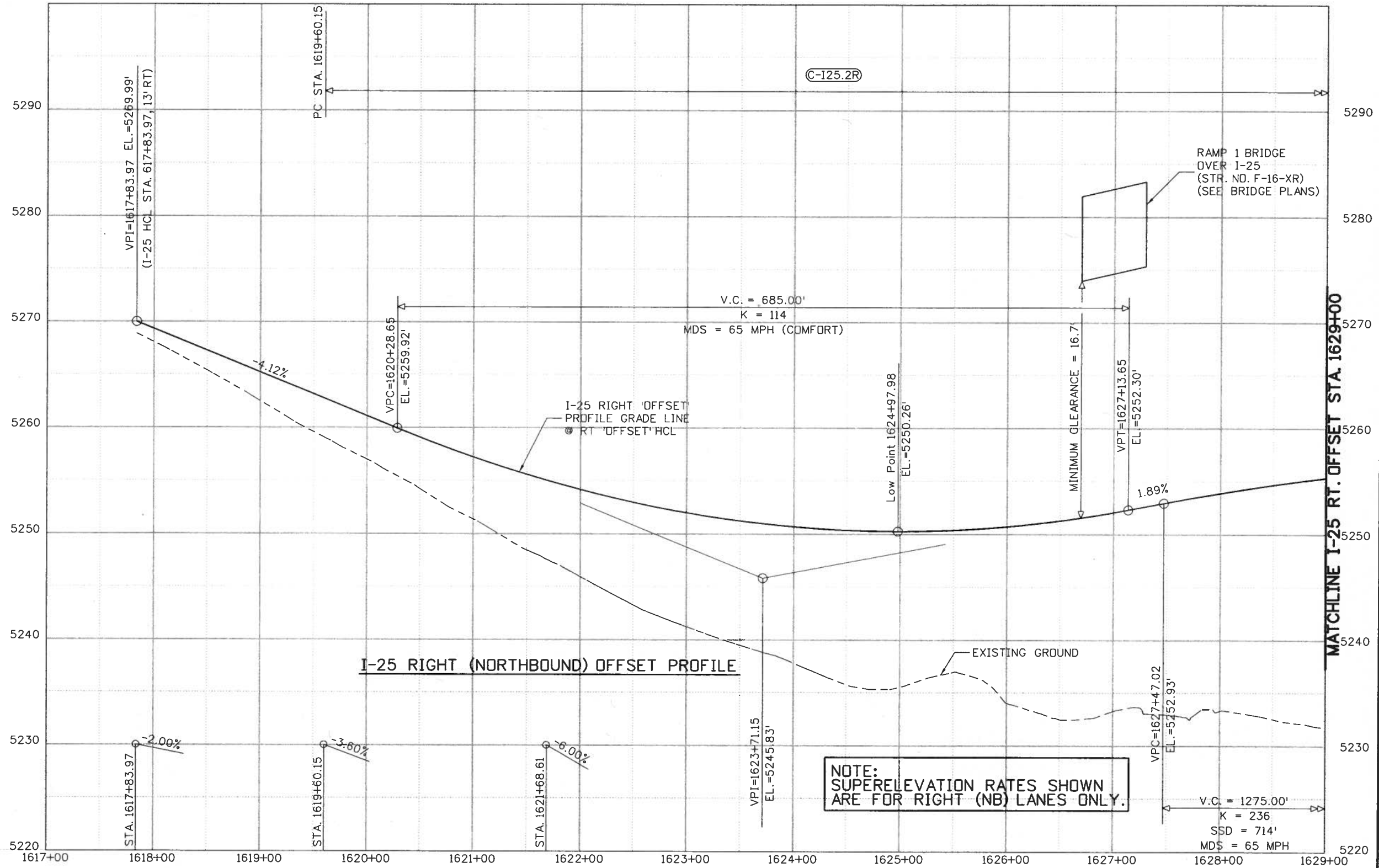
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
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Region 6 **RLB**

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Detailer:	SYS		
Sheet Subset:	PROFILE	Subset Sheets:	IPR-3 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 366 A



NOTE:
SUPERELEVATION RATES SHOWN
ARE FOR RIGHT (NB) LANES ONLY.

SCALE: 1"=100' HORIZ.
1"=10' VERT.

Print Date: 11/19/2010
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 Unit Information Unit Leader Initials
 FELSBURG HOLT & ULLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

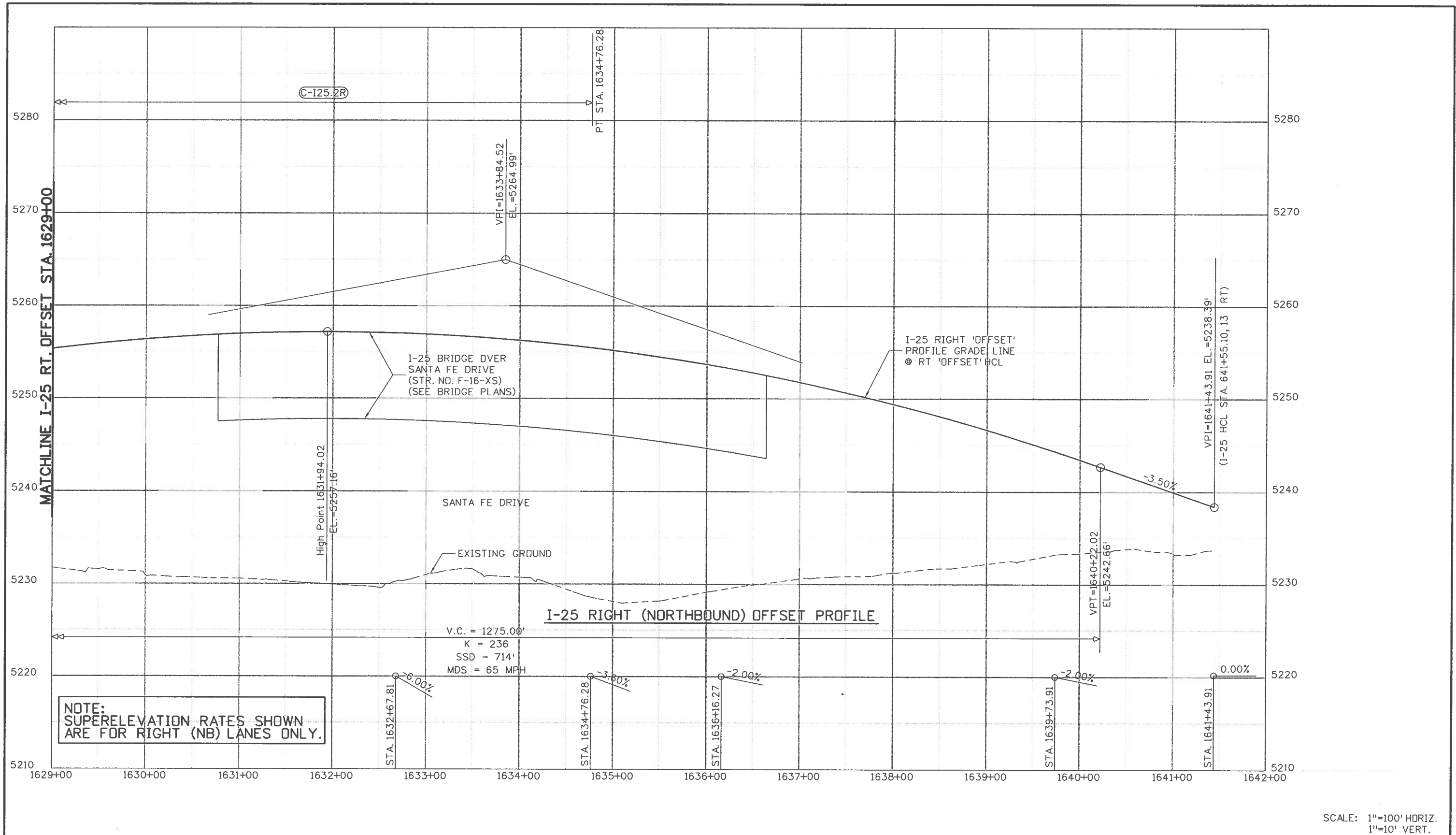
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Project No./Code
 BR 0252-407
 17783
 Sheet Number 367 A

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Unit Information	Unit Leader Initials

Sheet Revisions		
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12/03/10	UPDATE NOTES	SYS

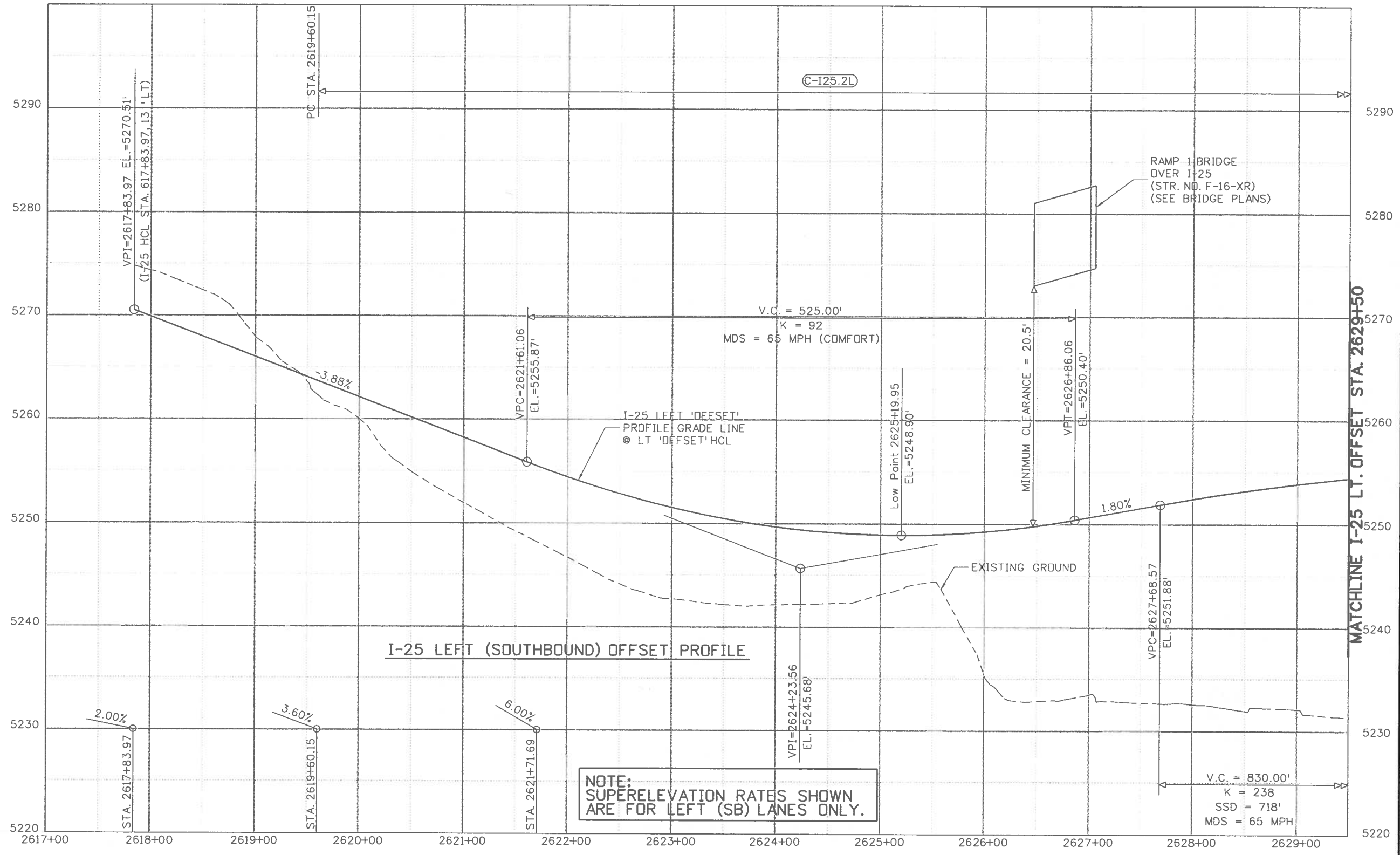
Colorado Department of Transportation

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Region 6 **RLB**

As Constructed
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Revised:
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Designer: SPG	Structure Numbers:	
Detailer: SYS		
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Project No./Code
BR 0252-407
17783
Sheet Number 368 A



SCALE: 1"=100' HORIZ.
1"=10' VERT.

Print Date: 11/19/2010
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 Horiz. Scale: 1:100 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FELSBURG
HOLT & ULLEVIG
 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 RLB

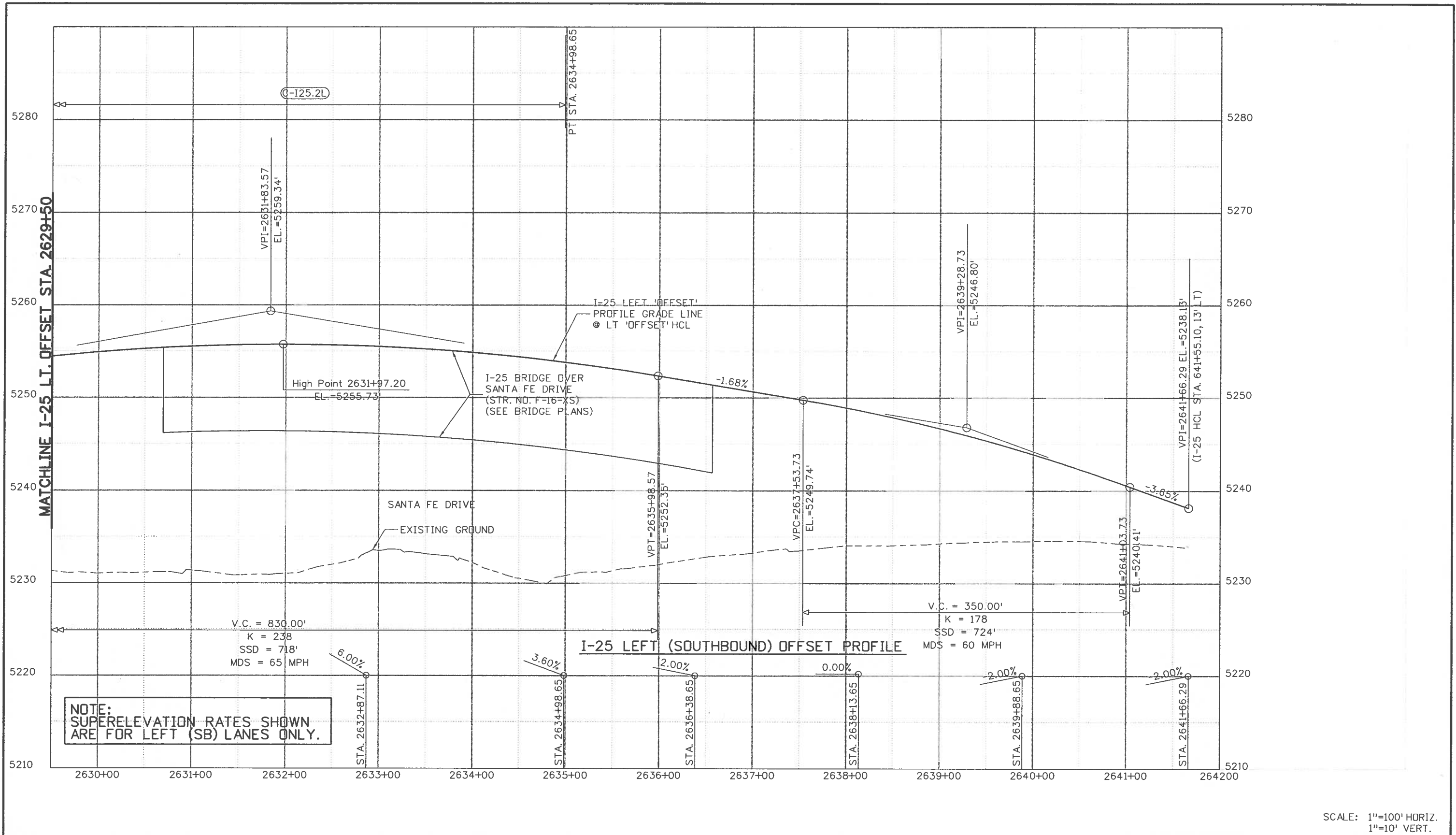
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I-25/SANTA FE INTERCHANGE
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 Detailer: SYS
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 Structure Numbers
 Subset Sheets: IPR-6 of 7

Project No./Code
 BR 0252-407
 17783
 Sheet Number 369 A

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1"=10' VERT.

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FELSBURG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

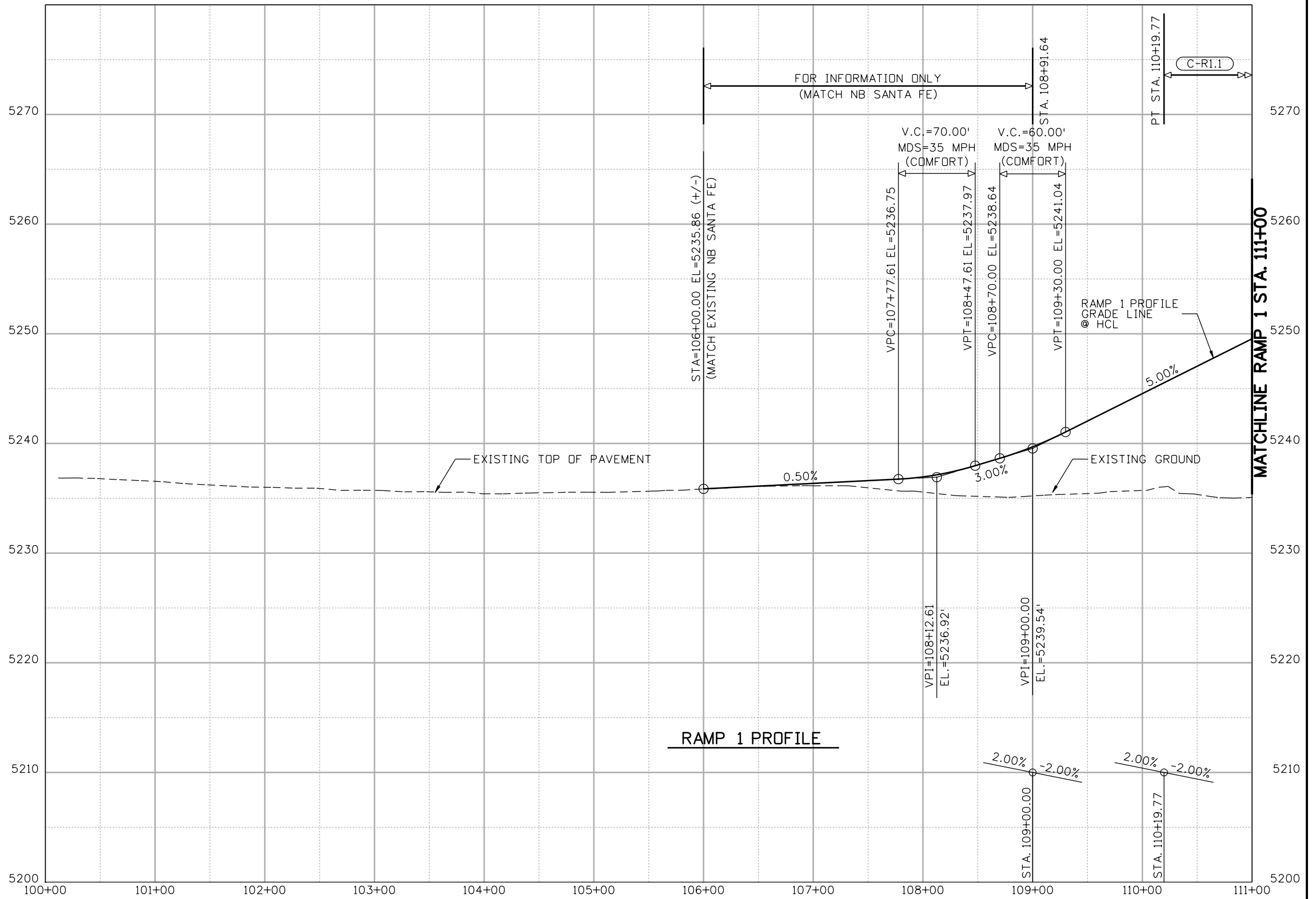
Colorado Department of Transportation

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Region 6 **RLB**

As Constructed
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Revised:
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I-25/SANTA FE INTERCHANGE			
I-25 LEFT (SB) OFFSET PROFILE			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	PROFILE	Subset Sheets:	IPR-7 of 7

Project No./Code
BR 0252-407
17783
Sheet Number 370 A



SCALE: 1"=100' HORIZ.
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Print Date: 10/22/2010	
File Name: 16311DES_PH2_Ramp1Pro1.dgn	
Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
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Region 6 RLB

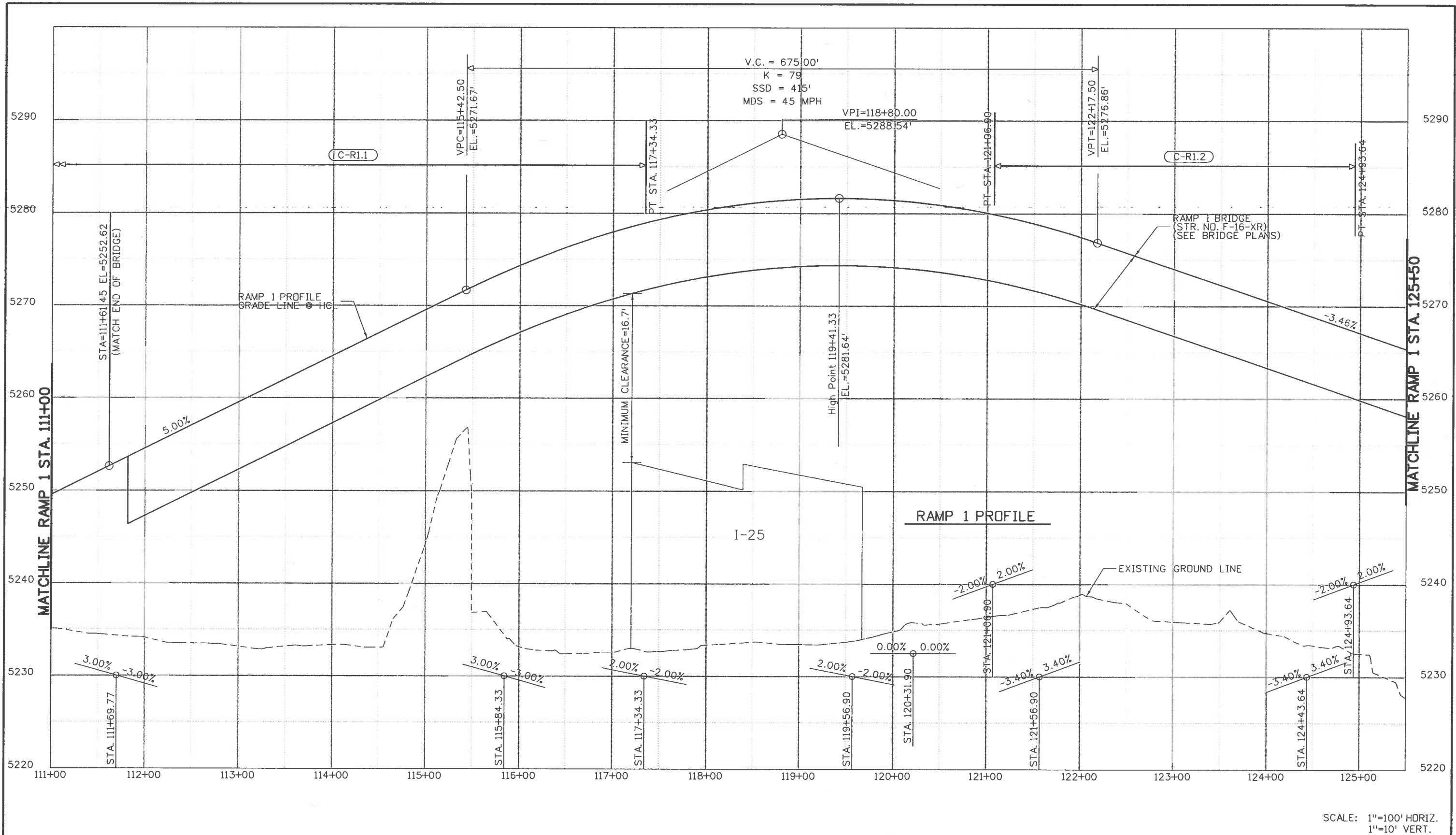
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Project No./Code
BR 0252-407
17783
Sheet Number 371

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FELSBURG HOLT & LILJEVIG 6300 South Syracuse Way Centennial, CO 80111	

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12/03/10	UPDATE NOTES	SYS

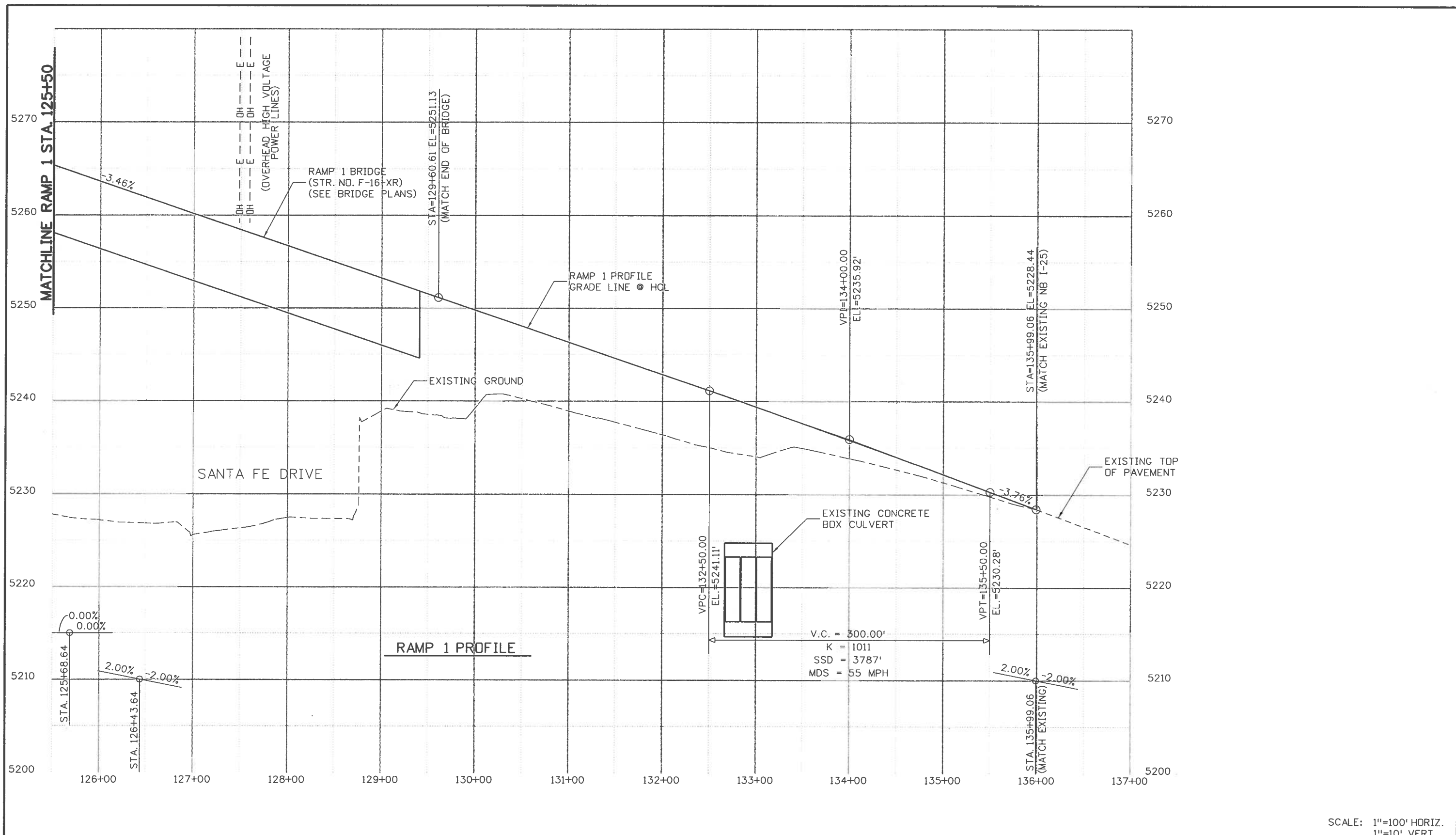
Colorado Department of Transportation
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed	
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I-25/SANTA FE INTERCHANGE			
RAMP 1 PROFILE			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
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Project No./Code	
BR 0252-407	
17783	
Sheet Number 372 A	

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Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
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Region 6

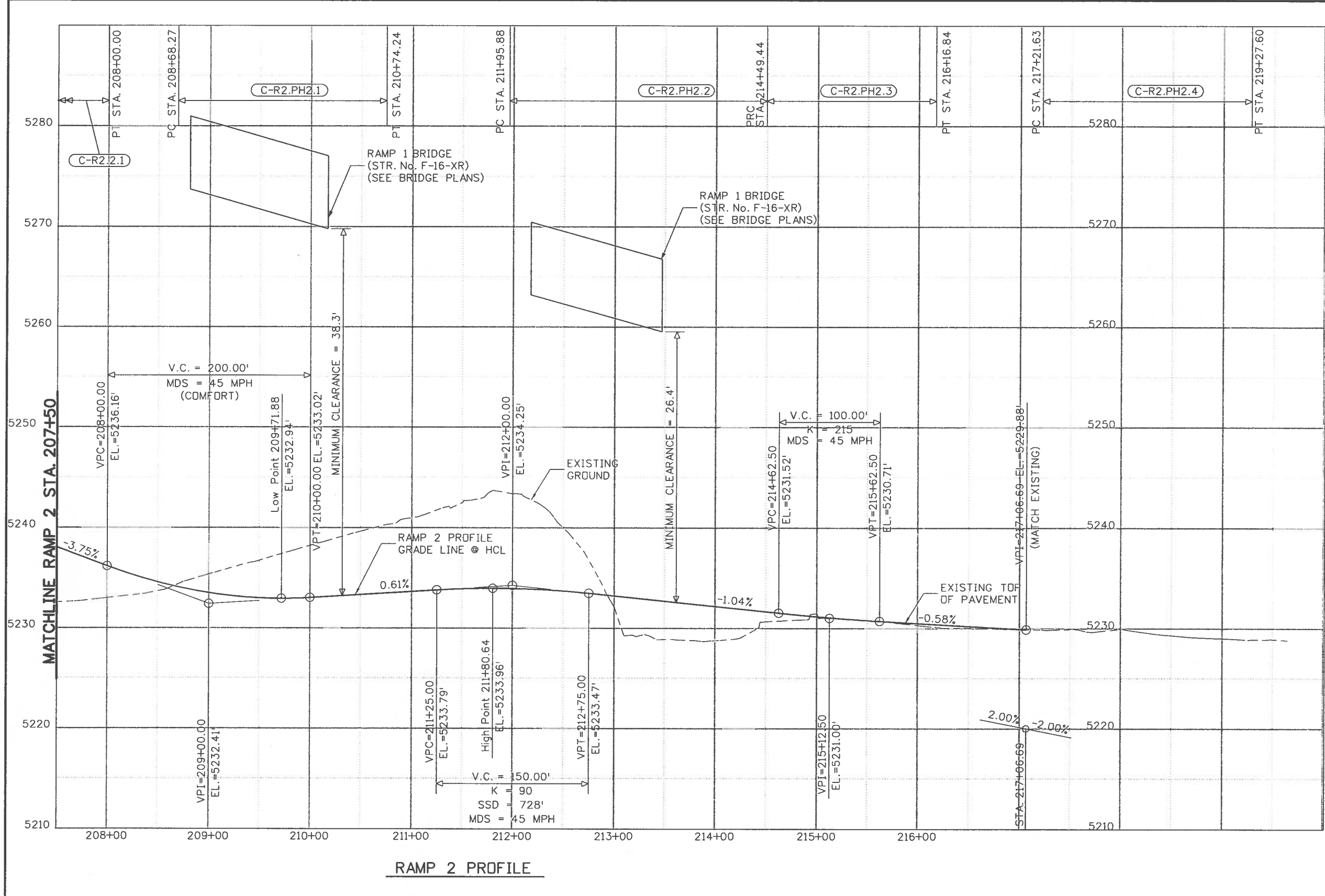
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Project No./Code
BR 0252-407
17783
Sheet Number 373 A

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RAMP 2 PROFILE

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Unit Information	Unit Leader Initials
FELSBURG HOLT & ULLIEVIG 6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
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12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

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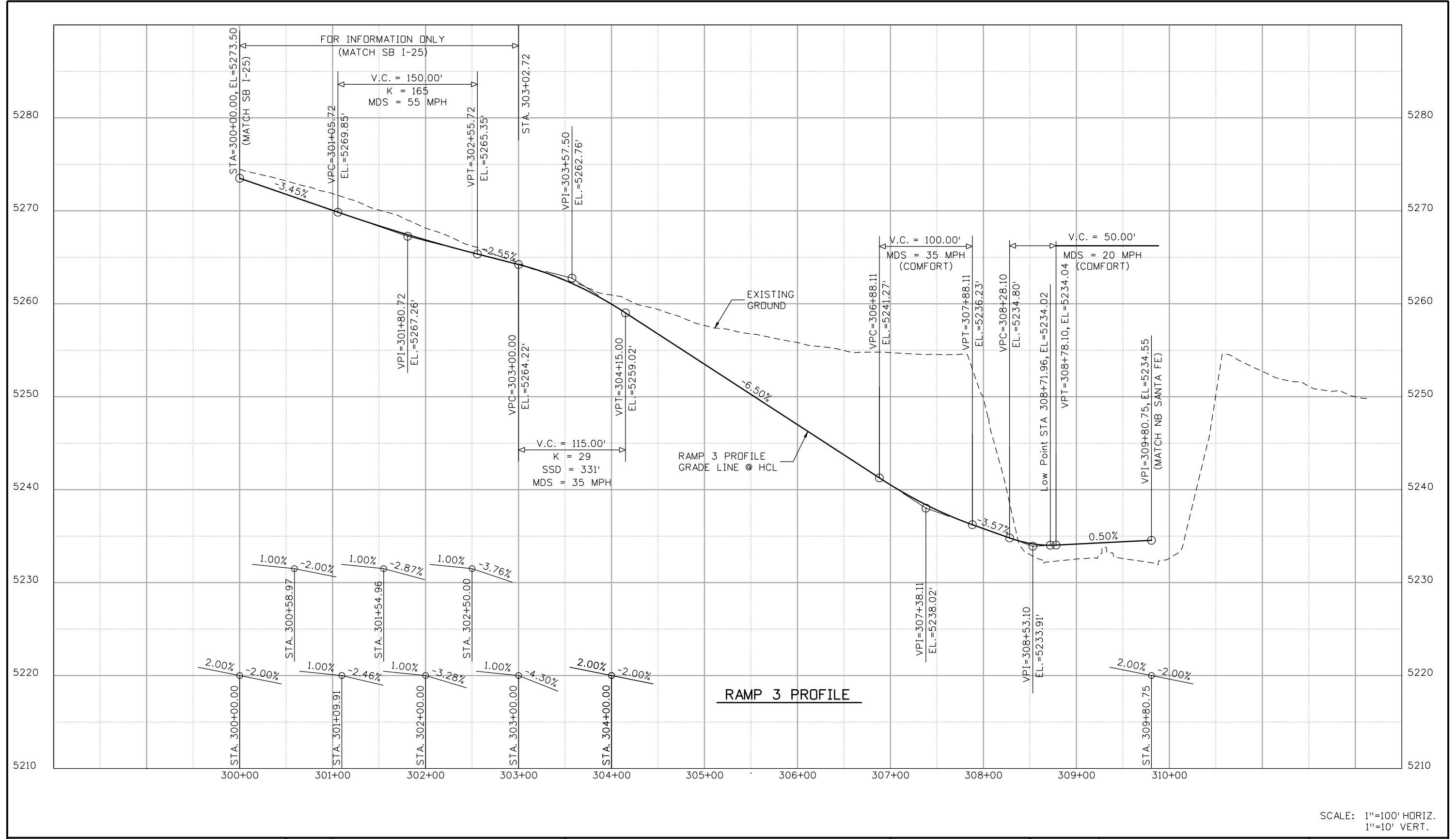
Region 6 RLB

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Project No./Code	BR 0252-407
	17783
Sheet Number	375 A

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Unit Information Unit Leader Initials
FELSBERG HOLT & ULLEVIG 6300 South Syracuse Way Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

DOT
DEPARTMENT OF TRANSPORTATION

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 Denver, CO 80222
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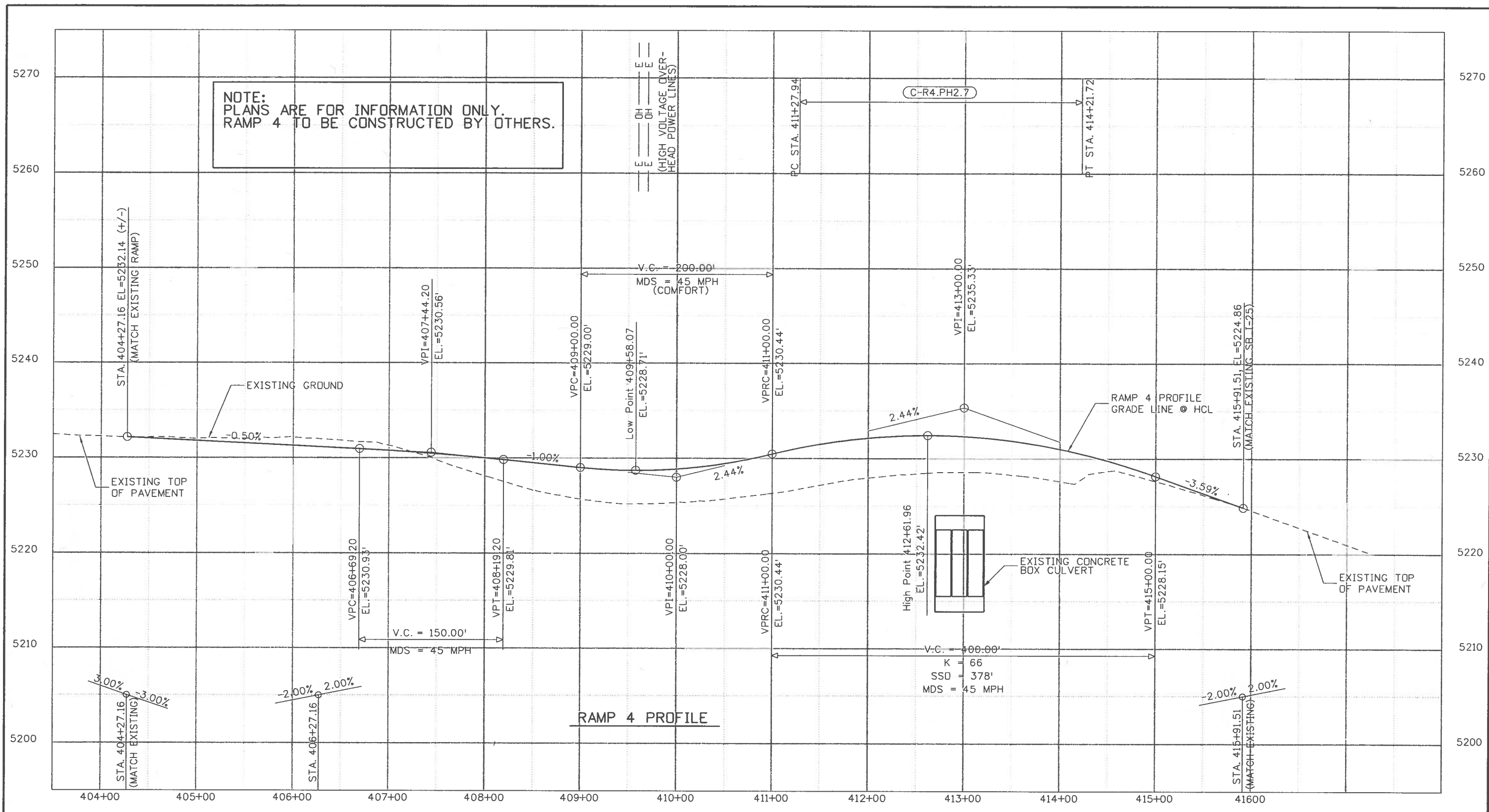
Region 6 **RLB**

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Project No./Code
BR 0252-407
17783
Sheet Number 376

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 11/19/2010



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Unit Information	Unit Leader Initials
FELSBURG HOLT & LILJEVIG 6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

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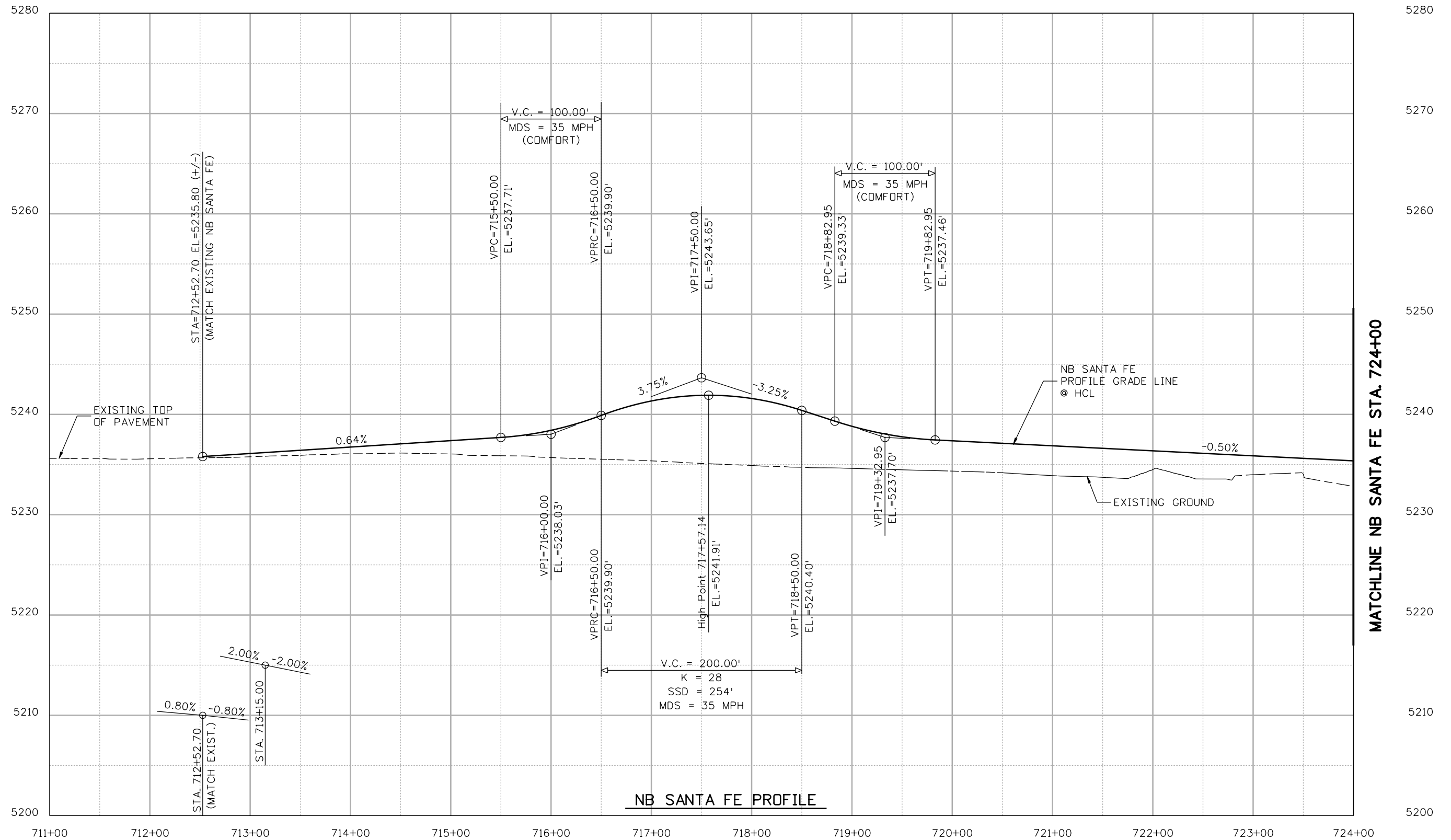
Region 6 RLB

As Constructed
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Project No./Code
BR 0252-407
17783
Sheet Number 377 A

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Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.

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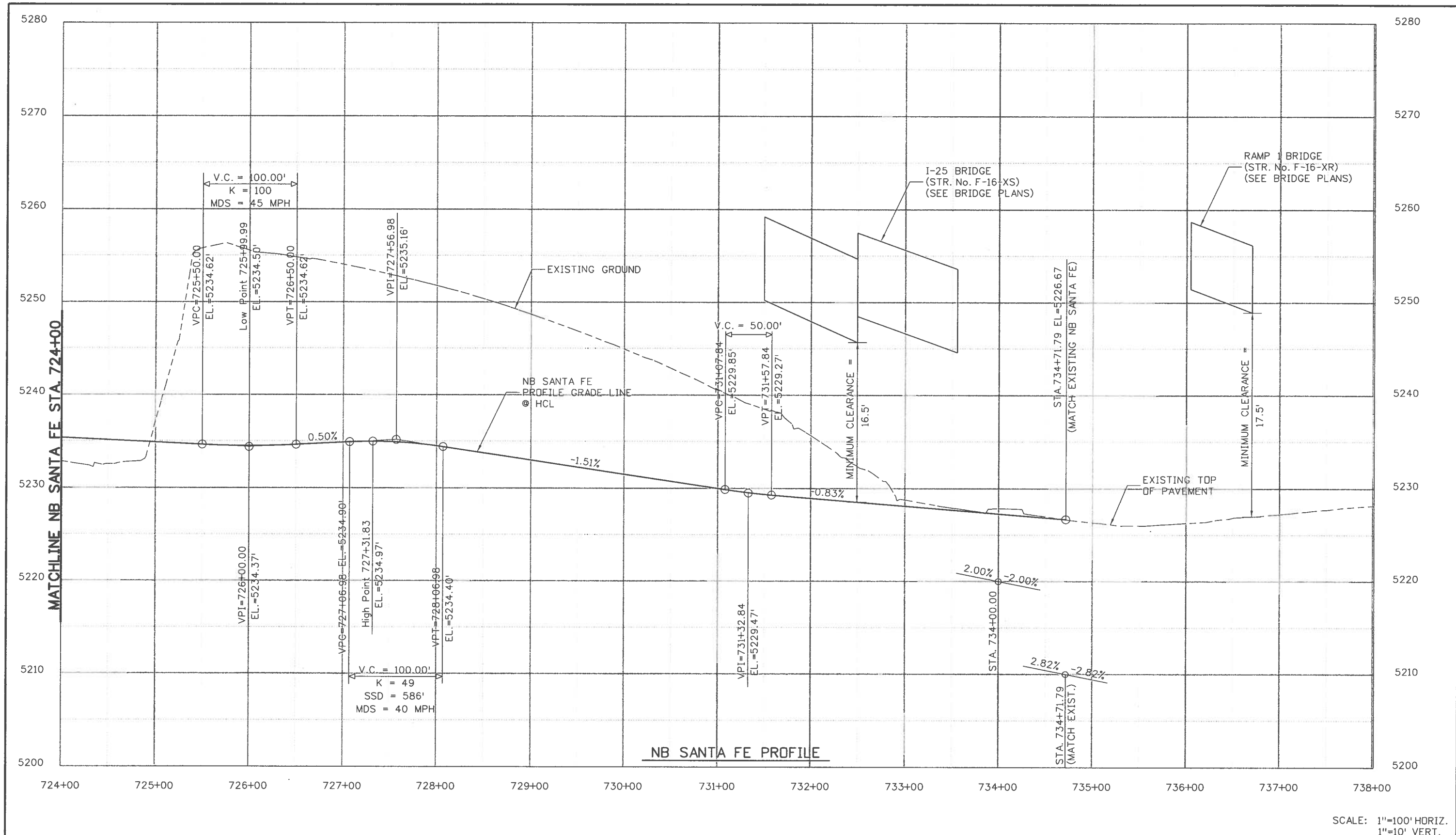
Region 6 RLB

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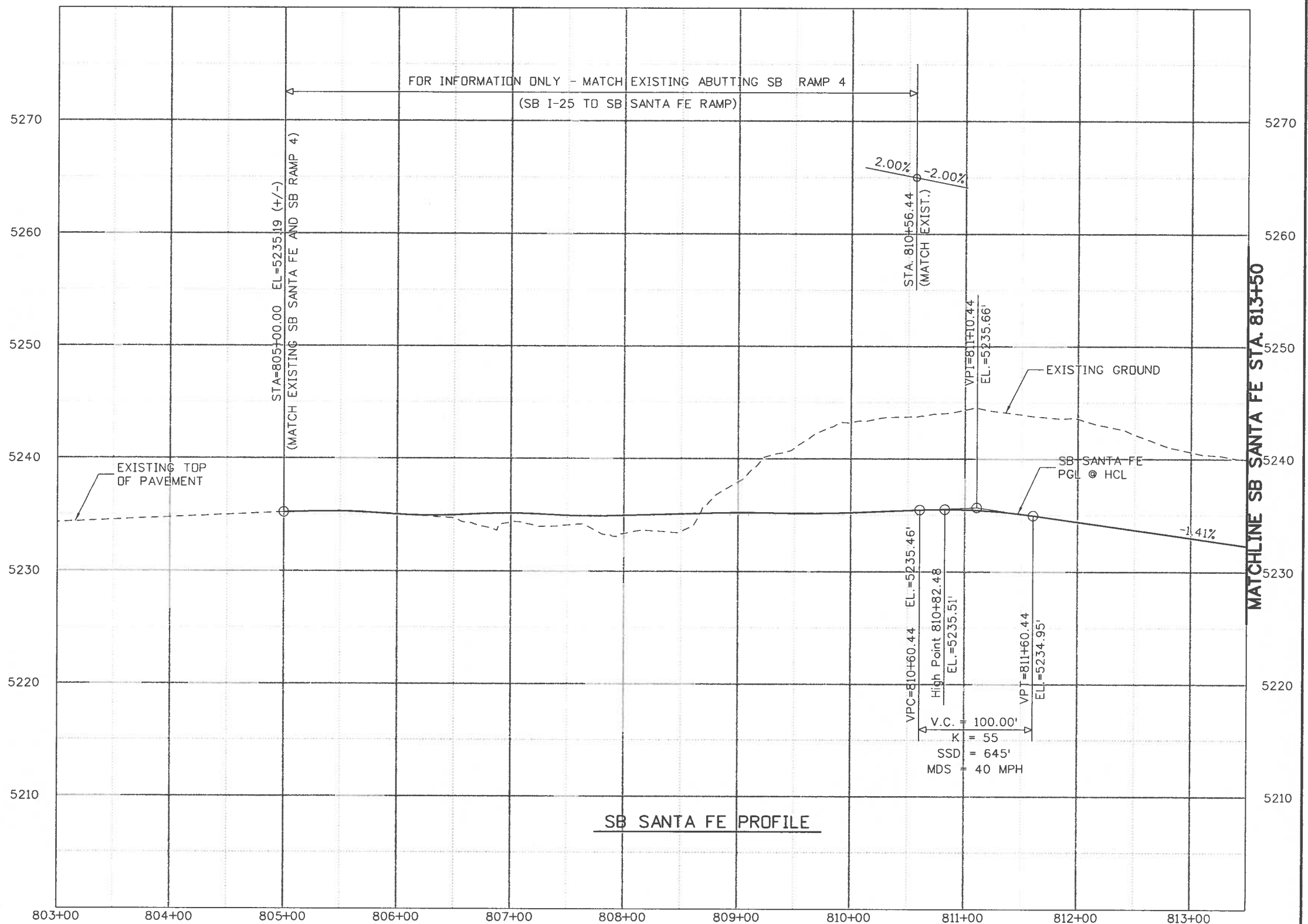
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17783
Sheet Number 378

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SCALE: 1"=100' HORIZ.
1"=10' VERT.

Print Date: 11/19/2010		Sheet Revisions Date: 12/03/10 Comments: UPDATE NOTES Init.: SYS			As Constructed No Revisions: Revised: Void:		I-25/SANTA FE INTERCHANGE NB SANTA FE PROFILE Designer: SPG Detailer: SYS Sheet Subset: PROFILE			Project No./Code BR 0252-407 17783 Sheet Number 379 A	
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Unit Information		Unit Leader Initials		FELSBERG HOLT & TILLEY 6300 South Syracuse Way Centennial, CO 80111							



SCALE: 1"=100' HORIZ.
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Print Date: 11/19/2010	
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Unit Information	Unit Leader Initials
FELSBURG HOLT & LILLEVIG 6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.
12/03/10	UPDATE NOTES	SYS

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-972-9112 FAX: 303-972-9114

Region 6 RLB

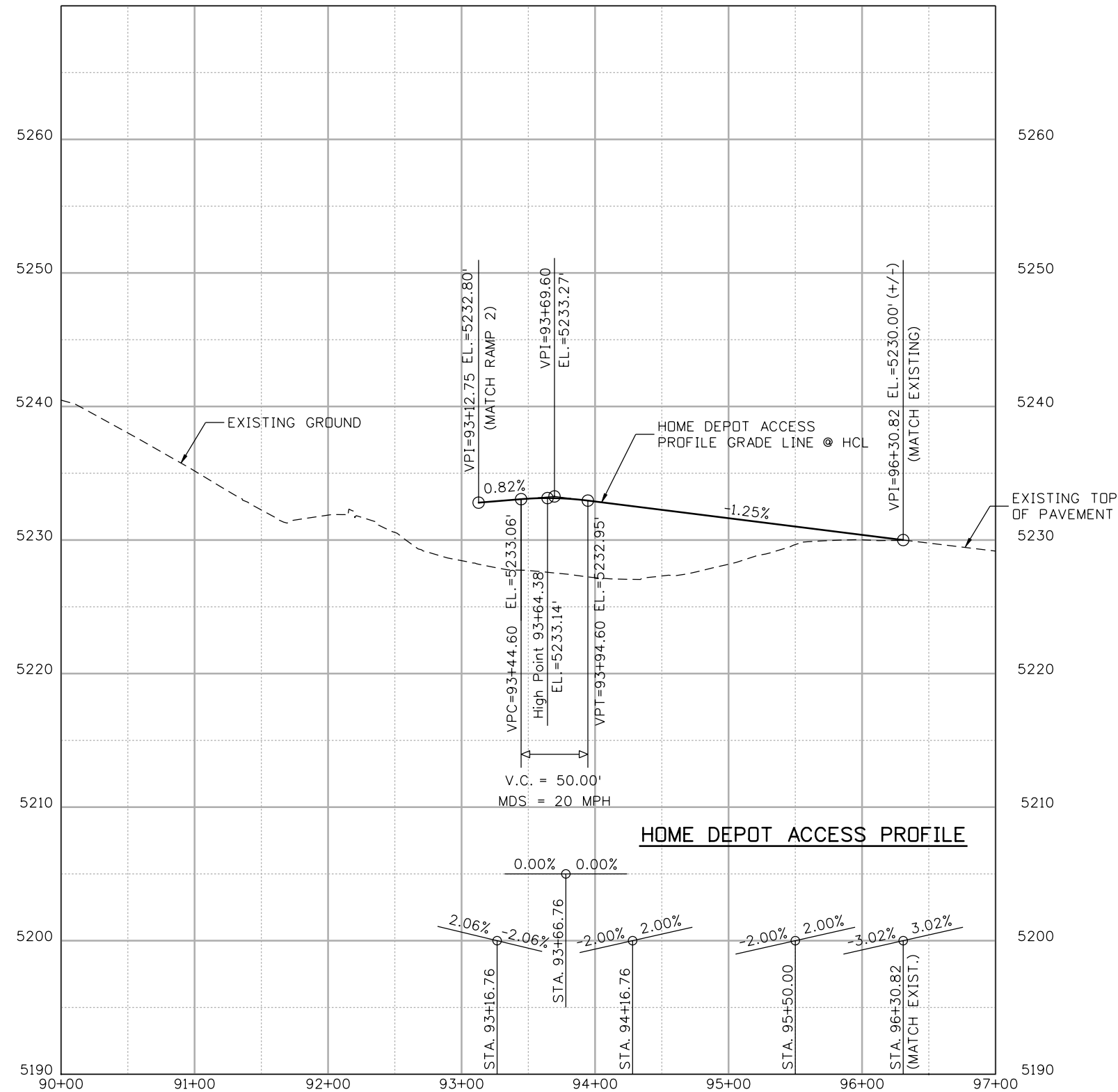
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Project No./Code	BR 0252-407
	17783
Sheet Number	380 A

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Horiz. Scale: 1:100	Vert. Scale: As Noted
Unit Information	Unit Leader Initials
6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
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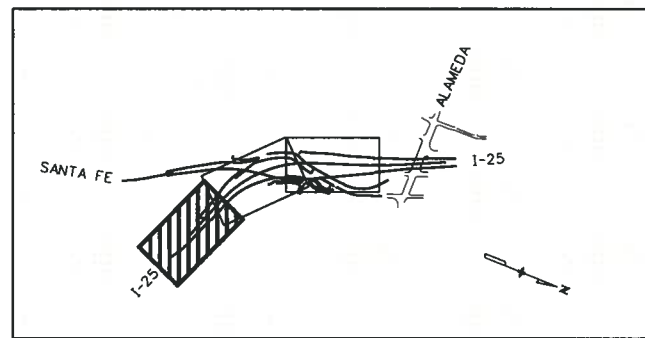
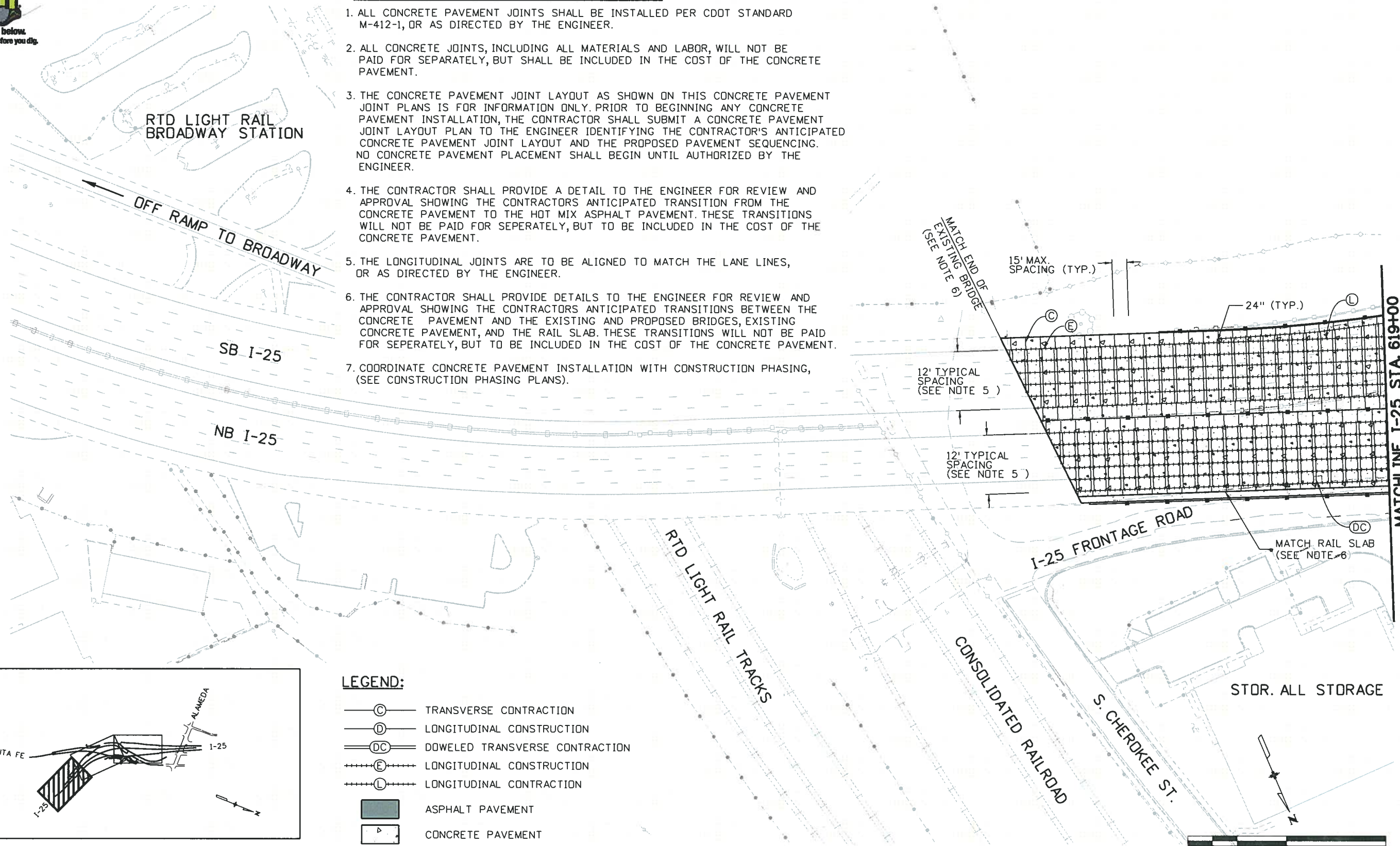
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HOME DEPOT ACCESS PROFILE			
Designer:	SPG	Structure Numbers	
Detailer:	SYS		
Sheet Subset:	PROFILE	Subset Sheets:	HPR-1 of 1

Project No./Code
BR 0252-407
17783
Sheet Number 382



CONCRETE PAVEMENT JOINTING NOTES:

1. ALL CONCRETE PAVEMENT JOINTS SHALL BE INSTALLED PER CDOT STANDARD M-412-1, OR AS DIRECTED BY THE ENGINEER.
2. ALL CONCRETE JOINTS, INCLUDING ALL MATERIALS AND LABOR, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT.
3. THE CONCRETE PAVEMENT JOINT LAYOUT AS SHOWN ON THIS CONCRETE PAVEMENT JOINT PLANS IS FOR INFORMATION ONLY. PRIOR TO BEGINNING ANY CONCRETE PAVEMENT INSTALLATION, THE CONTRACTOR SHALL SUBMIT A CONCRETE PAVEMENT JOINT LAYOUT PLAN TO THE ENGINEER IDENTIFYING THE CONTRACTOR'S ANTICIPATED CONCRETE PAVEMENT JOINT LAYOUT AND THE PROPOSED PAVEMENT SEQUENCING. NO CONCRETE PAVEMENT PLACEMENT SHALL BEGIN UNTIL AUTHORIZED BY THE ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE A DETAIL TO THE ENGINEER FOR REVIEW AND APPROVAL SHOWING THE CONTRACTORS ANTICIPATED TRANSITION FROM THE CONCRETE PAVEMENT TO THE HOT MIX ASPHALT PAVEMENT. THESE TRANSITIONS WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT.
5. THE LONGITUDINAL JOINTS ARE TO BE ALIGNED TO MATCH THE LANE LINES, OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL SHOWING THE CONTRACTORS ANTICIPATED TRANSITIONS BETWEEN THE CONCRETE PAVEMENT AND THE EXISTING AND PROPOSED BRIDGES, EXISTING CONCRETE PAVEMENT, AND THE RAIL SLAB. THESE TRANSITIONS WILL NOT BE PAID FOR SEPARATELY, BUT TO BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT.
7. COORDINATE CONCRETE PAVEMENT INSTALLATION WITH CONSTRUCTION PHASING, (SEE CONSTRUCTION PHASING PLANS).



MAPKEY

LEGEND:

- (C)— TRANSVERSE CONTRACTION
- (D)— LONGITUDINAL CONTRACTION
- (DC)— DOWELED TRANSVERSE CONTRACTION
- (E)— LONGITUDINAL CONTRACTION
- (L)— LONGITUDINAL CONTRACTION
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT



Print Date: 11/18/2010	
File Name: 16311DES_PH2_JointPavingPlan1.dgn	
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Unit Information Unit Leader Initials	
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Sheet Revisions		
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12/3/2010	REISSUED SHEET	SPG

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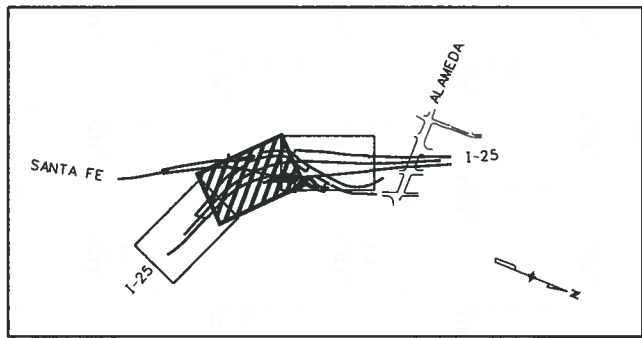
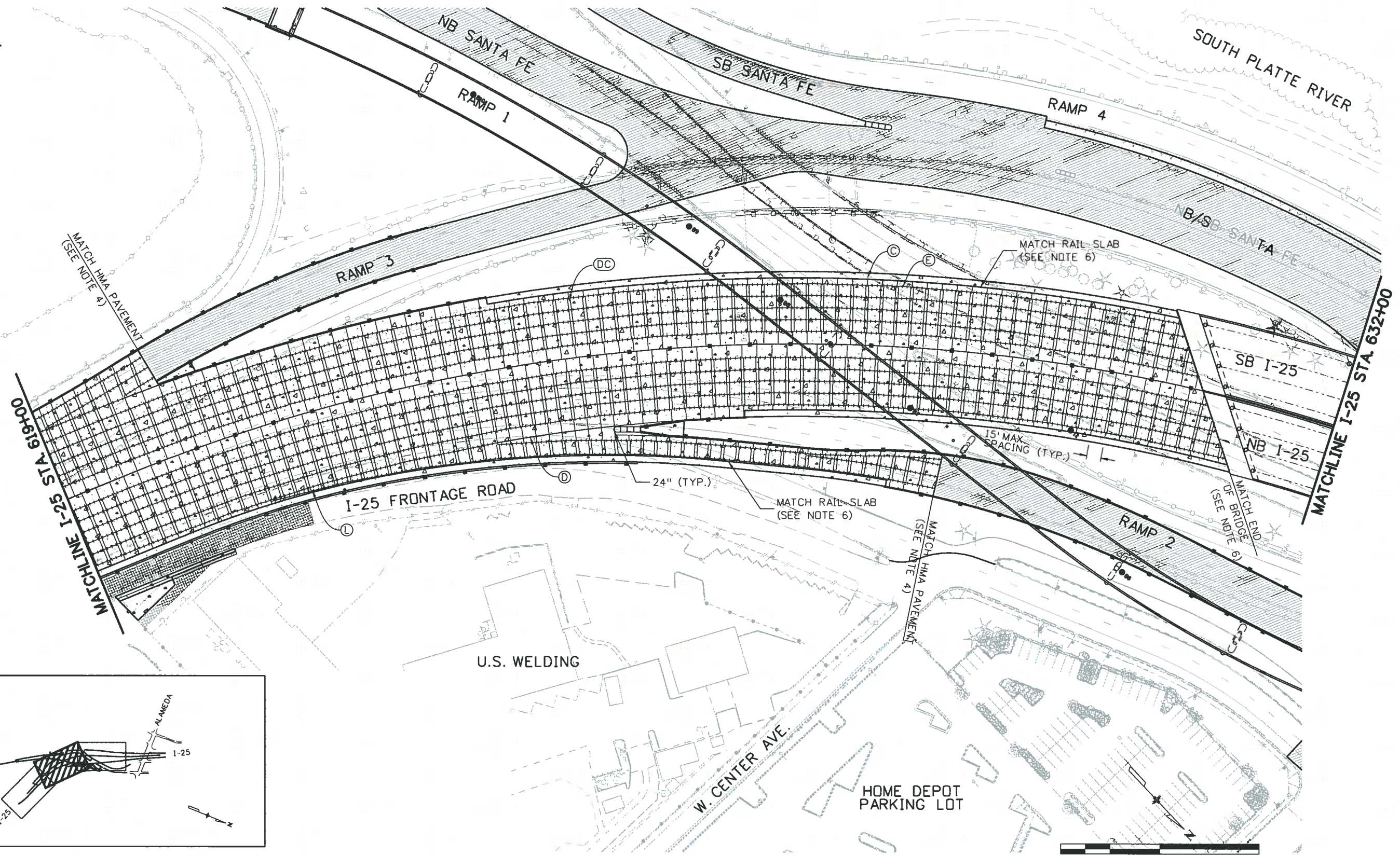
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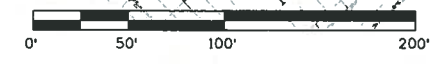
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Detailer:	SYS		
Sheet Subset:	ROADWAY	Subset Sheets:	CJP-1 of 3

Project No./Code
BR 0252-407
17783
Sheet Number 383 A

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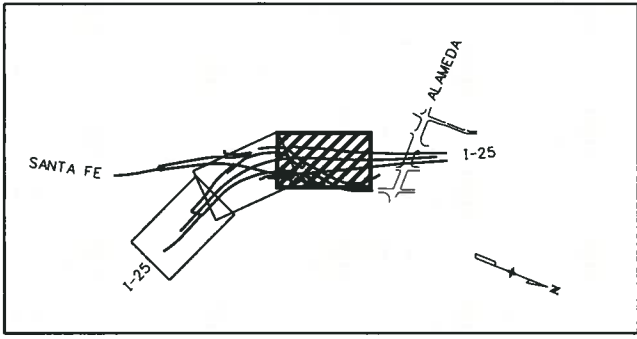
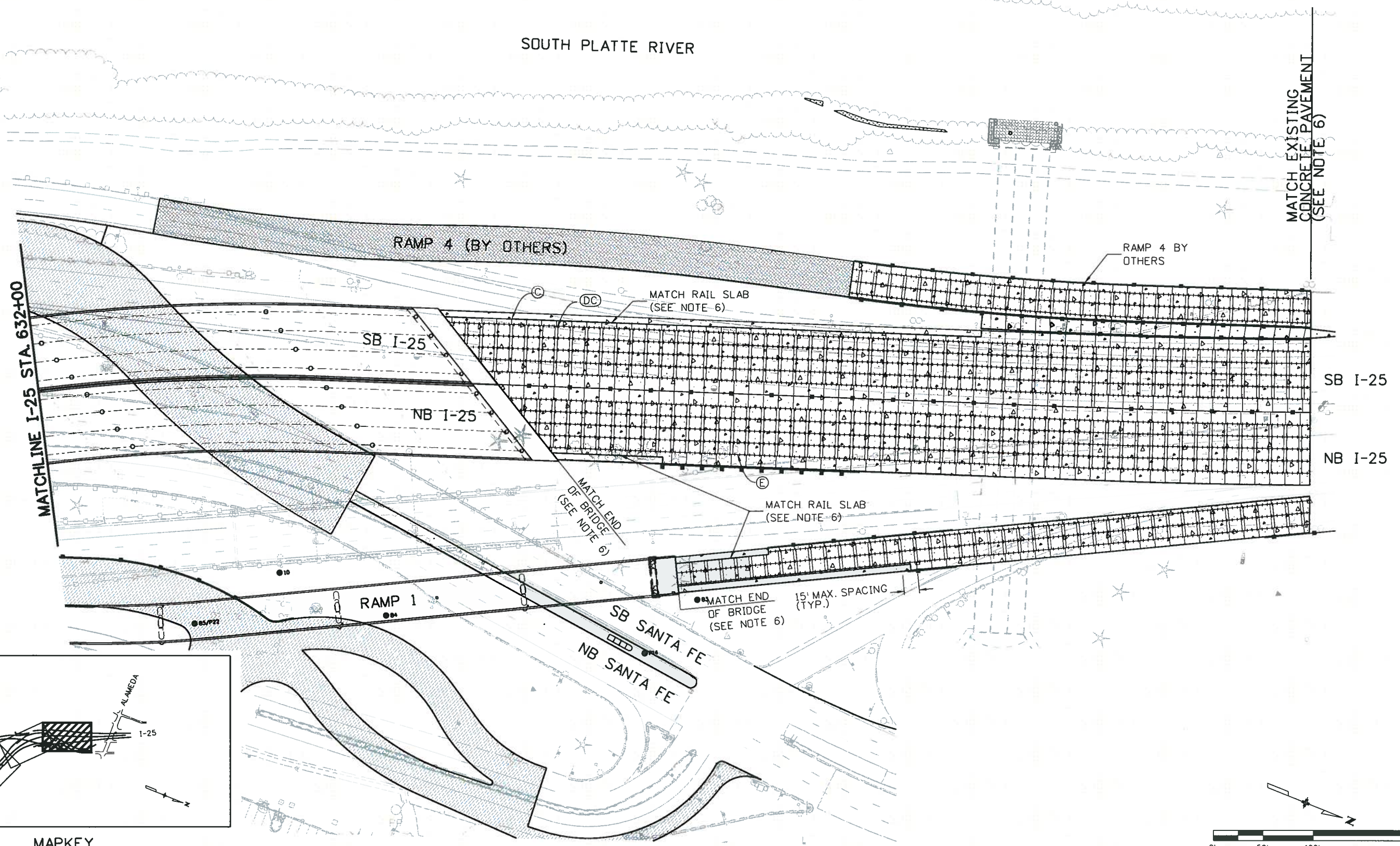
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 Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: CJP-2 of 3

Project No./Code
 BR 0252-407
 17783
 Sheet Number 384 A

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SOUTH PLATTE RIVER



MAPKEY



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 ULLEVIG 6300 South Syracuse Way
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 CONCRETE JOINT PAVING PLAN
 Designer: SPG Structure Numbers
 Detailer: SYS
 Sheet Subset: ROADWAY Subset Sheets: CJP-3 of 3

Project No./Code
 BR 0252-407
 17783
 Sheet Number 385 A

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SUMMARY OF TRAFFIC ENGINEERING ITEMS

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
202-00250	REMOVAL OF PAVEMENT MARKING	SF	33239
202-00805	REMOVAL OF OVERHEAD SIGN STRUCTURE	EACH	3
202-00810	REMOVAL OF GROUND SIGN	EACH	57
202-00815	REMOVAL OF SIGN (SPECIAL)	EACH	6
202-00821	REMOVAL OF SIGN PANEL	EACH	19
202-00825	REMOVAL OF FLASHING BEACON	EACH	2
202-00831	REMOVAL OF TRAFFIC SIGNAL HEAD	EACH	7
202-00840	REMOVAL OF TRAFFIC SIGNAL POLE	EACH	2
210-00473	RESET TV CAMERAS	EACH	1
210-00810	RESET GROUND SIGN	EACH	1
210-00815	RESET SIGN PANEL	EACH	1
210-00820	RESET VARIABLE MESSAGE SIGN	EACH	1
210-00848	RESET TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	1
210-00910	RESET TRAFFIC COUNTER (PERMANENT)	EACH	4
503-00024	DRILLED CAISSON (24 INCH)	LF	7
503-00048	DRILLED CAISSON (48 INCH)	LF	29
503-00054	DRILLED CAISSON (54 INCH)	LF	200
612-00001	DELINEATOR (TYPE I)	EACH	76
612-00002	DELINEATOR (TYPE II)	EACH	14
612-00003	DELINEATOR (TYPE III)	EACH	4
612-00021	DELINEATOR (TYPE I) (BARRIER)	EACH	206
612-00022	DELINEATOR (TYPE II) (BARRIER)	EACH	31
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	3590
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	3290
613-07000	PULL BOX (SPECIAL)	EACH	3
613-07026	PULL BOX (16"X24"X12")	EACH	13
613-07023	PULL BOX (24"X36"X24")	EACH	4
613-07039	PULL BOX (30"X48"X18") DEEP	EACH	7
613-32300	LIGHT STANDARD STEEL (30 FOOT)	EACH	1

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ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY
614-00011	SIGN PANEL (CLASS I)	SF	283
614-00012	SIGN PANEL (CLASS II)	SF	845
614-00013	SIGN PANEL (CLASS III)	SF	3468
614-00040	SIGN POST (SPECIAL)	LF	19
614-00216	STEEL SIGN POST (2X2 INCH TUBING)	LF	492
614-00818	STEEL SIGN POST (W 8X18)	LF	35
614-01583	STEEL SIGN SUPPORT (2-1/2 IN ROUND SCH 80) (POST AND SLIPBASE)	EACH	36
614-03003	CONCRETE FOOTING (TYPE 3)	EACH	2
614-32400	MONOTUBE OVERHEAD SIGN CANTILEVER (24 INCH DIAMETER)	EACH	1
614-42000	MONOTUBE OVERHEAD SIGN BRIDGE (20 INCH DIAMETER)	EACH	3
614-42400	MONOTUBE OVERHEAD SIGN BRIDGE (24 INCH DIAMETER)	EACH	1
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	21
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12-12)	EACH	1
614-72830	COMMUNICATION CABINET	EACH	1
614-72855	TRAFFIC SIGNAL CONTROLLER CABINET	EACH	2
614-72875	LOOP DETECTOR WIRE	LF	1460
614-8000	FLASHING BEACON	EACH	4
614-85312	TRAFFIC SIGNAL SPAN WIRE POLE (12 INCH)	EACH	2
614-85362	TRAFFIC SIGNAL-LIGHT SPAN WIRE POLE (12 INCH)	EACH	3
614-85366	TRAFFIC SIGNAL-LIGHT SPAN WIRE POLE (16 INCH)	EACH	2
614-86238	TRAFFIC SIGNAL CONTROLLER (SOLID STATE) (FULL-ACTUATED) (8 PHASE)	EACH	2
614-86800	UNINTERRUPTED POWER SUPPLY	EACH	2
614-87333	CLOSED CIRCUIT TELEVISION CAMERA (TRAFFIC SURVEILLANCE)	EACH	1
614-87412	FIBER OPTIC CABLE (SINGLE MODE) (12 STRANDS)	LF	475
614-87496	FIBER OPTIC CABLE (SINGLE MODE) (96 STRANDS)	LF	2100
627-00005	EPOXY PAVEMENT MARKING	GAL	212
627-01010	PREFORMED PLASTIC PAVEMENT MARKING (TYPE II) (INLAID)	SF	11087
627-30327	PREFORMED PLASTIC PAVEMENT MARKING (WORD-SYMBOL) (TYPE III)	SF	570
627-30332	PREFORMED PLASTIC PAVEMENT MARKING (XWALK-STOP LINE) (TYPE III)	SF	501


(R-1)

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 Horiz. Scale: 1:1 Vert. Scale: As Noted
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 6300 South Syracuse Way
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Sheet Revisions		
Date:	Comments	Init.
12-3-10	Updated Quantities	LCL

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**I-25/SANTA FE INTERCHANGE
 SUMMARY OF
 TRAFFIC ENGINEERING ITEMS**

Designer:	LCL	Structure Numbers	
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	TE-1 of 1

Project No./Code
 BR 0252-407
 17783
 Sheet Number **386 A**

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TABULATION OF OVERHEAD GUIDE SIGNS

SIGN NO.	LOCATION	STATION; OFFSET (Post Locations)	SIGN DESCRIPTION	SIGN PANEL SIZE	SIGN PANEL (CLASS III) SF	STRUCTURE TYPE	STRUCTURE NUMBER	NO. OF POSTS	PIPE POST			SPAN LENGTH FT - IN	CAISSON DEPTH FT	DRILLED CAISSON							
									OUTER DIAMETER	HEIGHT "H"	RADIUS "R"			42" DIAM.	48" DIAM.	54" DIAM.					
									INCHES	FT - IN	FT			(PAY LENGTH) FT							
1A	NB SANTA FE DRIVE	698+80, 23.2' LT	I-25 Advance	12 x 12	144.0	BRIDGE	F-17-AB	1	20	23' - 6"	10	82' - 0"	22.0			23.5					
1B		698+80, 58.8' RT	Guide Signs	21 x 12	252.0				20	22' - 6"	10			22.0			23.5				
8A	NB SANTA FE DRIVE	712+00, 23.75' LT	Junction I-25	12 x 12	144.0	BRIDGE	F-17-AC	1	20	23' - 6"	10	80' - 0"	22.0			23.25					
8B		712+00, 56.25' RT	Exit Guide Signs	20 x 12	240.0				20	23' - 6"	10			22.0			23.0				
12A	NB I-25	622+22; 92.4' R	Santa Fe Drive	10 x 2.5	25.0	CANTILEVER	F-17-AF	1	24	30' - 0"	10	28' - 0"	23.0		28.5						
12B			Exit Guide Signs	16 x 12	192.0																
10A	SB I-25	622+00, 82' LT	EXIT 206	9 x 2.5	22.5	BRIDGE	F-17-AE	1	20	23' - 6"	10	82' - 0"	22.0			25.5					
10B			Washington/Emerson	17 x 8	136.0																
10C		622+00, 0' RT	EXIT 207A	10 x 2.5	25.0									1	20	22' - 6"	10	22.0			27.75
10D			Broadway	12 x 8	96.0																
19A	SB I-25	645+51, 130' LT	EXIT 207A	10 x 2.5	25.0	BRIDGE	F-17-AG	1	24	18' - 0"	12	130' - 0"	24.0			26.0					
19B			Broadway	12 x 10	120.0																
19C		645+51, 0' RT	EXIT 207B	10 x 2.5	25.0									1	24	19' - 0"	12	24.0			27.25
19D			Santa Fe Drive	16 x 10	160.0																
PROJECT TOTALS													0	28.5	199.75						

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TABULATION OF TRAFFIC SIGNS

Designer: LCL Structure Numbers

Detailer: LCL

Sheet Subset: TRAFFIC Subset Sheets: ST-7 of 7

Project No./Code

BR 0252-407

17783

Sheet Number 393

PAVEMENT MARKING TABULATION (Sheet 1 of 1)

LOCATION	STATION	DISTANCE (FT)	JURISDICTION	EPOXY PAVEMENT MARKING LINES - LINEAR FEET									PERFORMED PLASTIC PAVEMENT MARKING LINES - LF (I-25 Mainline and Ramps)					PERFORMED PLASTIC PAVEMENT MARKING (TYPE III)	
				EDGE		CENTER	CHANNELIZING	LANE	LANE DROP	DOTTED			LANE	CHANNELIZING	LANE DROP	WORD - SYMBOL	XWALK - STOPLINE		
				WHITE SOLID	YELLOW SOLID	DOUBLE YELLOW SOLID	WHITE SOLID	WHITE BROKEN	WHITE BROKEN	WHITE BROKEN	YELLOW BROKEN	WHITE BROKEN	WHITE BROKEN (TYPE I)	WHITE BROKEN (TYPE II) (CONTRAST)	WHITE SOLID (TYPE II) (CONTRAST)			WHITE BROKEN (TYPE I)	WHITE BROKEN (TYPE II) (CONTRAST)
4 INCH	4 INCH	4 INCH	8 INCH	4 INCH	8 INCH	4 INCH	4 INCH	8 INCH	4 INCH	7 INCH	11 INCH	8 INCH	11 INCH	SF	SF				
NB I-25	south of 619+60	varies	CDOT	1202	404									1180	143	1061			
NB I-25	619+60 to 634+87	1527	CDOT	881	1527									4581	594				
NB I-25	634+87 to 648+95	1408	CDOT	1408	1408									4224					
NB I-25	648+95 to 657+50	855	CDOT	755	855									3376					
SB I-25	south of 619+60	varies	CDOT	330	416									1592					
SB I-25	619+60 to 634+87	1527	CDOT	1527	1527									4581					
SB I-25	634+87 to 651+00	1613	CDOT	1613	1223									4839	390				
SB I-25	651+00 to 662+68	1168	CDOT	1067	1168									3504	101	1168			
SB I-25	north of 662+68	varies	CDOT	794	692									2824	328				
RAMP 1	Gore to 110+20	varies	CDOT	330											997				
RAMP 1	110+20 to 136+00	2580	CDOT	2580	2580									2580			116		
RAMP 1	136+00 to Gore	varies	CDOT	527											470				
RAMP 2	200+00 to 205+84	584	CDOT	584											434				
RAMP 2	205+84 to 213+60	varies	CDOT	824	796				496			128		364			46.5	88	
RAMP 2	213+60 to 220+00	varies	CDOT	549	297				265		99	70		378			93	69	
Home Depot	90+00 to Santa Fe	varies	CDOT	464	301	240	426					70	200				62	78	
Frontage	s/o Home Depot Access	varies	DENVER	495		425													
Frontage	s/o Center Avenue	varies	DENVER	1213	1005														
RAMP 3	300+00 to 310+00	varies	CDOT	890	674									447	496		12		
RAMP 4	397+00 to 399+17	varies	CDOT	186			232	157											
RAMP 4	399+17 to 416+86	1769	CDOT	1769	1769			1769											
RAMP 4	416+86 to Gore	varies	CDOT	527											917				
NB SANTA FE	703+85 to 713+60	975	DENVER		107		975	975	675					300			20		
NB SANTA FE	713+60 to 724+30	1070	DENVER	558	1070		1441	1070						371			51	72	
NB SANTA FE	724+30 to 738+75	varies	DENVER	985	1289		256	2890				151					31	68	
NB SANTA FE	738+75 to 746+47	varies	DENVER	695			521	1436											
SB SANTA FE	805+00 to 808+25	325	DENVER		325		325	650											
SB SANTA FE	808+25 to 822+34	varies	DENVER	1409	1435		848	1409	393								91.5	30	
SB SANTA FE	822+34 to 833+27	varies	DENVER	1072	432		526	1960									46.5	96	
TOTAL (LINEAR FEET)				25234	21300	665	5550	13077	1068	99	70	549	0	33728	6283	0	2229		
TOTAL (SQ.FT.)				8411.3	7100.0	443.3	3700.0	1089.8	195.8	11.0	7.8	122.0	0.0	4918.7	5759.4	0.0	408.7	569.5	501.0
TOTAL (GALLONS)				84.1	71.0	4.4	37.0	10.9	2.0	0.1	0.1	1.2							

PROJECT TOTALS	EPOXY PAVEMENT MARKING (GAL)		PREFORMED PLASTIC PAVEMENT MARKING (TYPE II) (CONTRAST) (INLAID)
	YELLOW	WHITE	SF
	76.0	136.0	11086.7
	212.0		

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TABULATION OF
PAVEMENT MARKINGS

Designer: LCL
Detailer: LCL
Sheet Subset: TRAFFIC

Structure Numbers

Subset Sheets: PMT-1 of 1

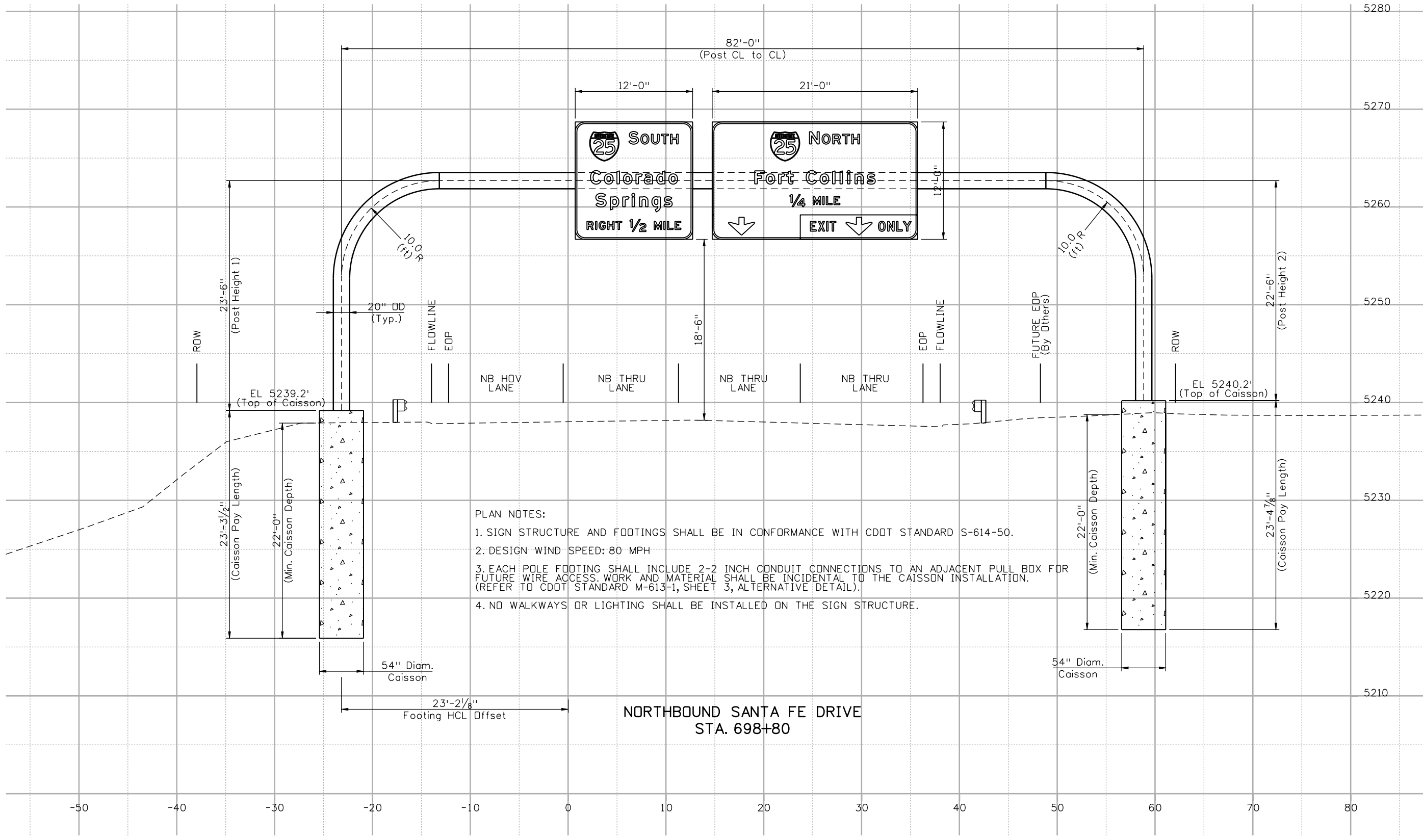
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- PLAN NOTES:
1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDOT STANDARD S-614-50.
 2. DESIGN WIND SPEED: 80 MPH
 3. EACH POLE FOOTING SHALL INCLUDE 2-2 INCH CONDUIT CONNECTIONS TO AN ADJACENT PULL BOX FOR FUTURE WIRE ACCESS. WORK AND MATERIAL SHALL BE INCIDENTAL TO THE CAISSON INSTALLATION. (REFER TO CDOT STANDARD M-613-1, SHEET 3, ALTERNATIVE DETAIL).
 4. NO WALKWAYS OR LIGHTING SHALL BE INSTALLED ON THE SIGN STRUCTURE.

NORTHBOUND SANTA FE DRIVE
STA. 698+80

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I-25/SANTA FE INTERCHANGE
 GUIDE SIGN CROSS SECTION
 STA. 698+80 (NB SANTA FE)

Designer: LCL Structure: F-17-AB
 Detailer: LCL Numbers:
 Sheet Subset: TRAFFIC Subset Sheets: S-1 of 6

Project No./Code

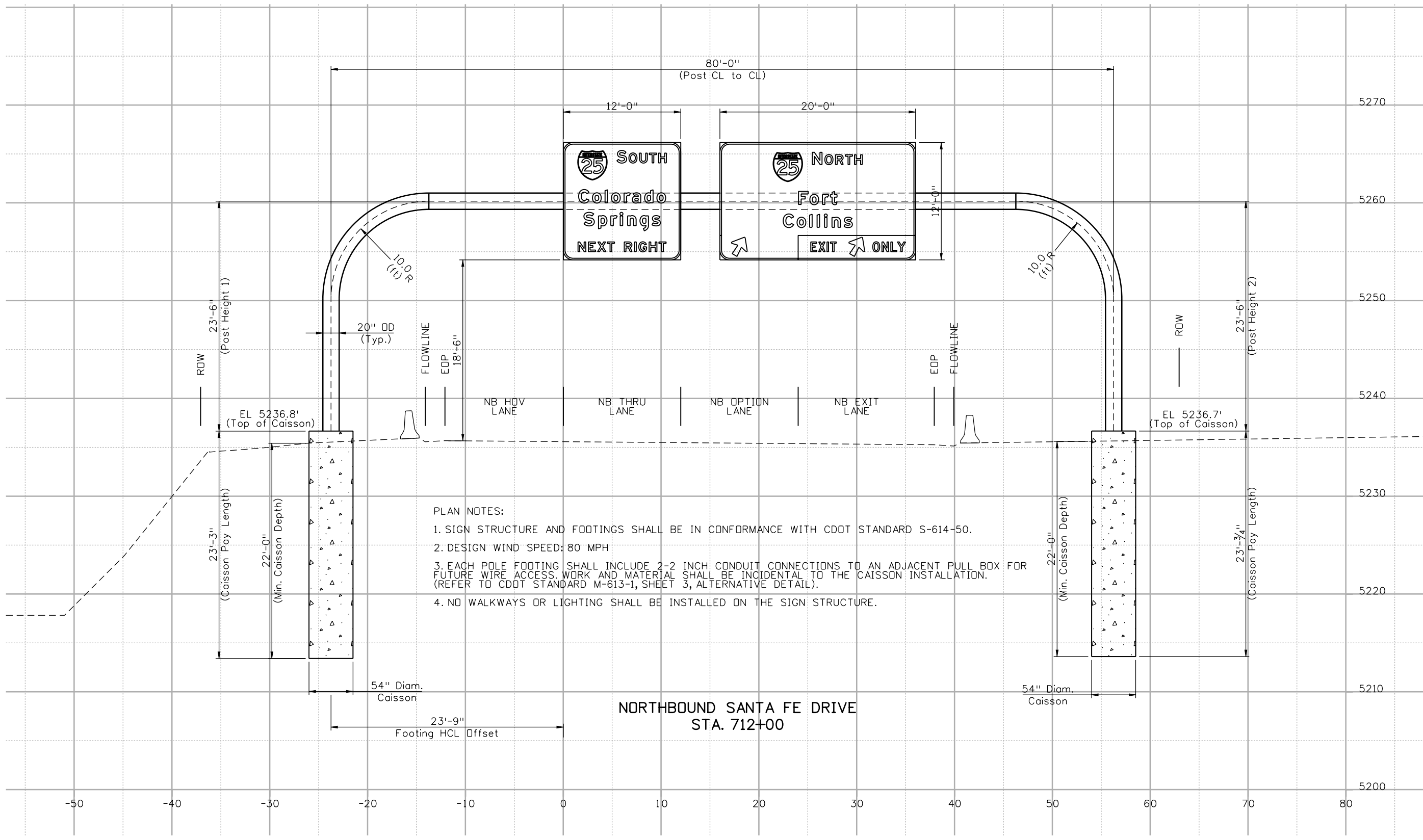
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- PLAN NOTES:
1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDDT STANDARD S-614-50.
 2. DESIGN WIND SPEED: 80 MPH
 3. EACH POLE FOOTING SHALL INCLUDE 2-2 INCH CONDUIT CONNECTIONS TO AN ADJACENT PULL BOX FOR FUTURE WIRE ACCESS. WORK AND MATERIAL SHALL BE INCIDENTAL TO THE CAISSON INSTALLATION. (REFER TO CDDT STANDARD M-613-1, SHEET 3, ALTERNATIVE DETAIL).
 4. NO WALKWAYS OR LIGHTING SHALL BE INSTALLED ON THE SIGN STRUCTURE.

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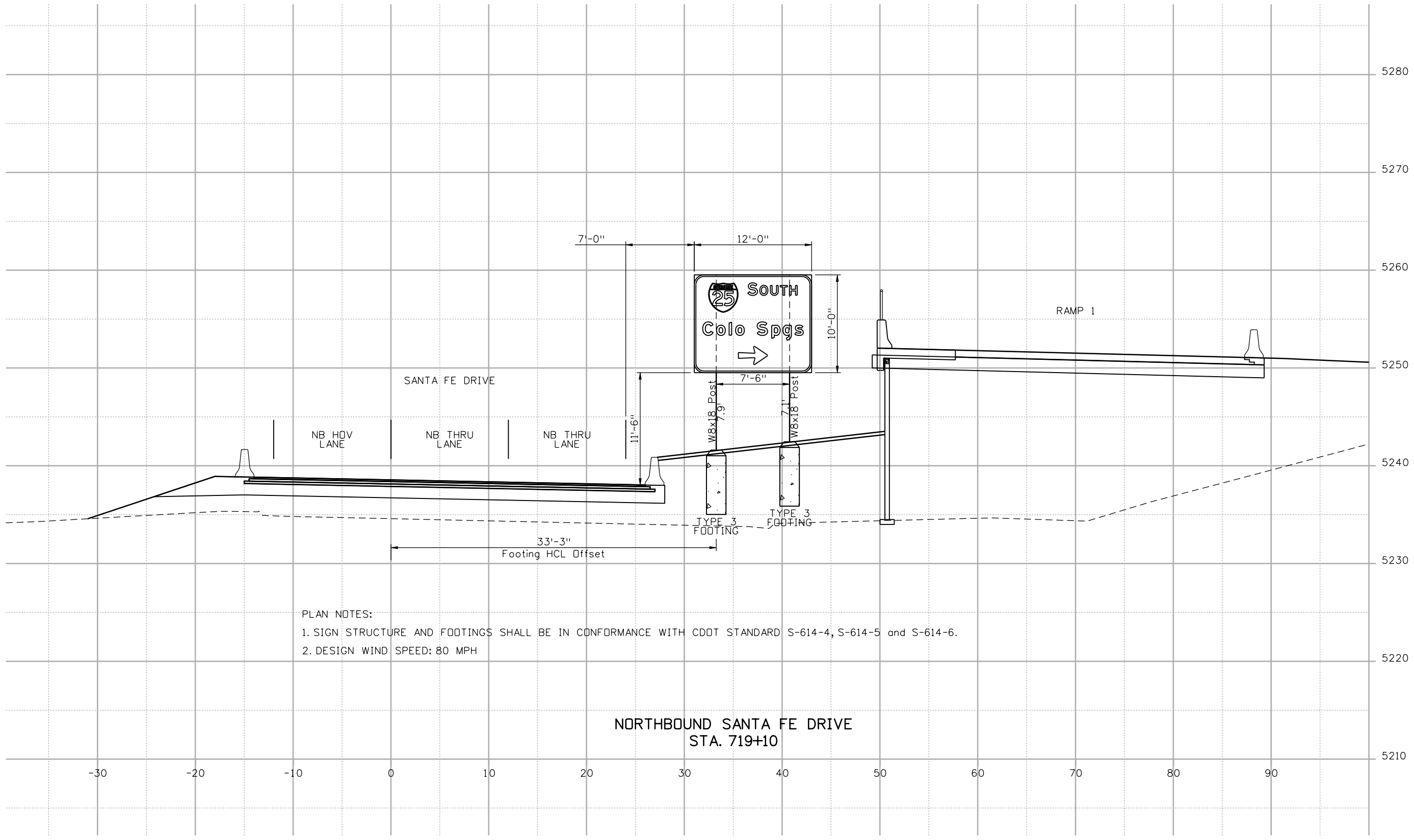
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I-25/SANTA FE INTERCHANGE GUIDE SIGN CROSS SECTION STA 712+00 (NB SANTA FE)			
Designer:	LCL	Structure Numbers	F-17-AC
Detailer:	LCL		
Sheet Subset:	TRAFFIC	Subset Sheets:	S-2 of 6

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PLAN NOTES:
 1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDDT STANDARD S-614-4, S-614-5 and S-614-6.
 2. DESIGN WIND SPEED: 80 MPH

NORTHBOUND SANTA FE DRIVE
 STA. 719+10

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6300 South Syracuse Way Centennial, CO 80111	

Sheet Revisions		
Date:	Comments	Init.

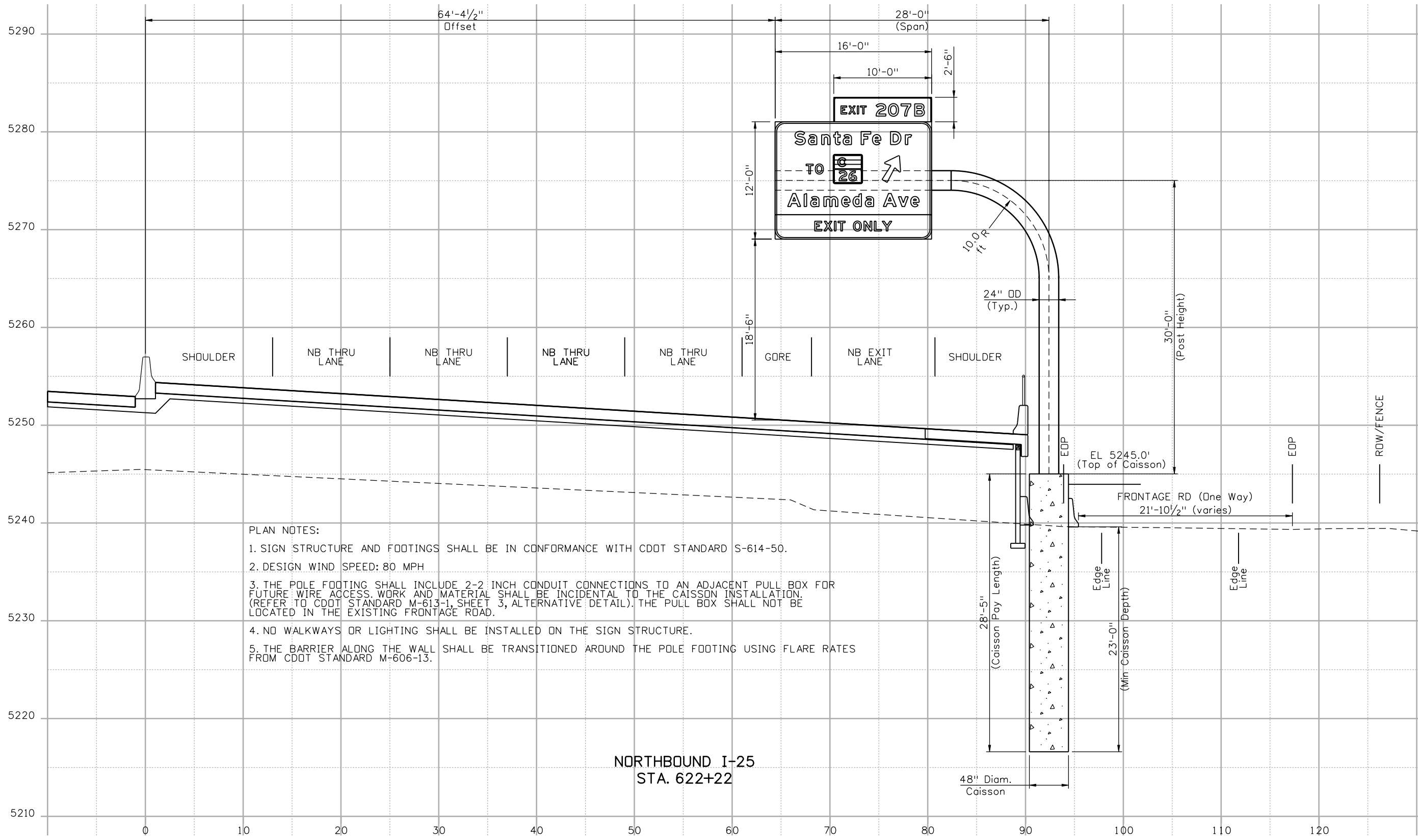
Colorado Department of Transportation

 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
Region 6 **RLB**

As Constructed
No Revisions:
Revised:
Void:

I-25/SANTA FE INTERCHANGE			
GUIDE SIGN CROSS SECTION			
STA. 719+00 (NB SANTA FE)			
Designer:	LCL	Structure	
Detailer:	LCL	Numbers	
Sheet Subset:	TRAFFIC	Subset Sheets:	S-3 of 6

Project No./Code
BR 0252-407
17783
Sheet Number 398



- PLAN NOTES:
1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDDT STANDARD S-614-50.
 2. DESIGN WIND SPEED: 80 MPH
 3. THE POLE FOOTING SHALL INCLUDE 2-2 INCH CONDUIT CONNECTIONS TO AN ADJACENT PULL BOX FOR FUTURE WIRE ACCESS. WORK AND MATERIAL SHALL BE INCIDENTAL TO THE CAISSON INSTALLATION. (REFER TO CDDT STANDARD M-613-1, SHEET 3, ALTERNATIVE DETAIL). THE PULL BOX SHALL NOT BE LOCATED IN THE EXISTING FRONTAGE ROAD.
 4. NO WALKWAYS OR LIGHTING SHALL BE INSTALLED ON THE SIGN STRUCTURE.
 5. THE BARRIER ALONG THE WALL SHALL BE TRANSITIONED AROUND THE POLE FOOTING USING FLARE RATES FROM CDDT STANDARD M-606-13.

NORTHBOUND I-25
STA. 622+22

Print Date: 10/20/2010
 File Name: 16311TRAF_PH2_GuideSign_Section4.dgn
 Horiz. Scale: 1:10 Vert. Scale: As Noted
 Unit Information Unit Leader Initials
FELSBURG HOLT & ULLERVIK
 6300 South Syracuse Way
 Centennial, CO 80111

Sheet Revisions		
Date:	Comments	Init.

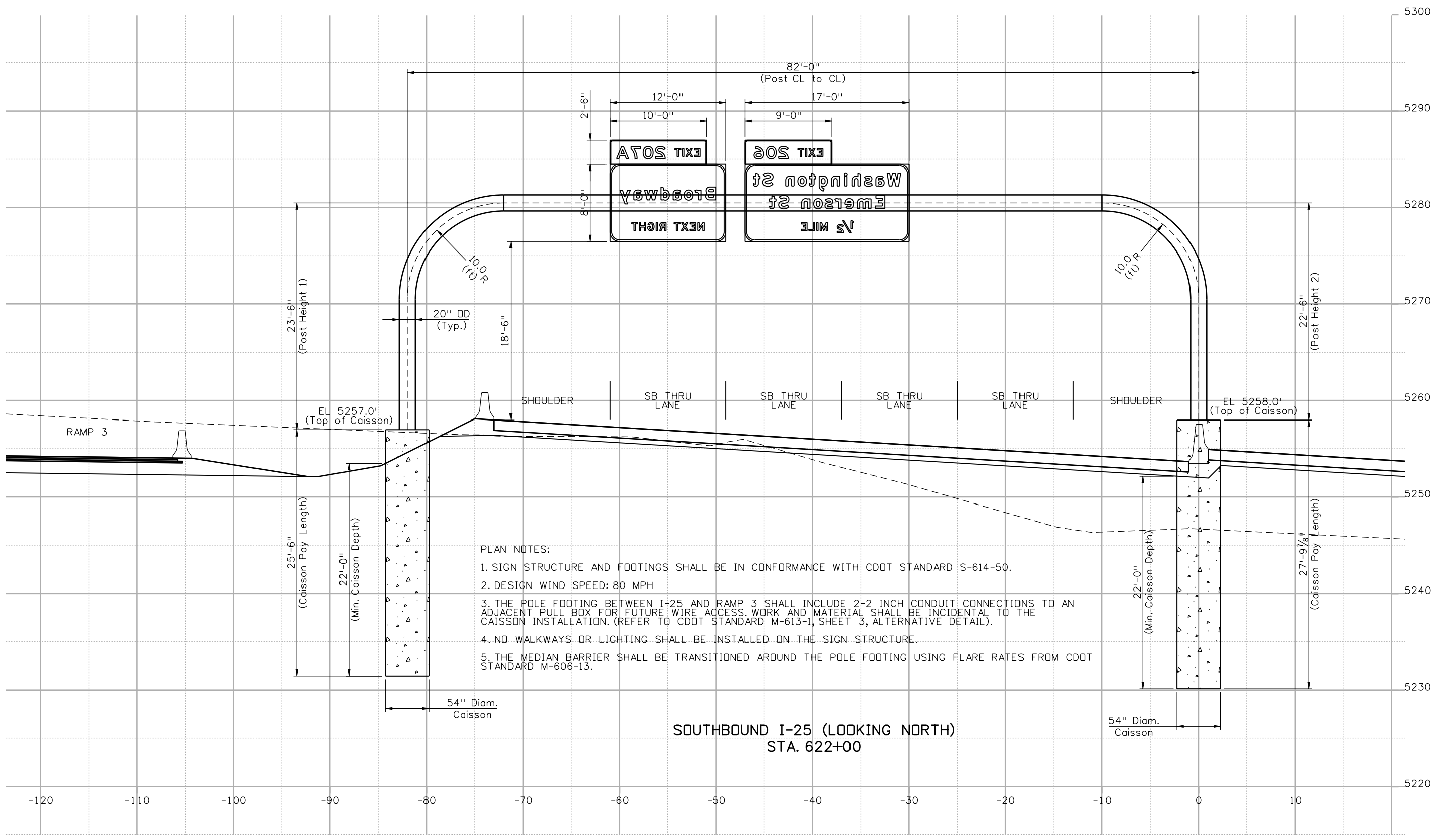
Colorado Department of Transportation
DOT
 DEPARTMENT OF TRANSPORTATION
 2000 South Holly Street
 Denver, CO 80222
 Phone: 303-972-9112 FAX: 303-972-9114
 Region 6 RLB

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/SANTA FE INTERCHANGE
 GUIDE SIGN CROSS SECTION
 STA. 622+22 (NB I-25)
 Designer: LCL Structure Numbers F-17-AF
 Detailer: LCL
 Sheet Subset: TRAFFIC Subset Sheets: S-4 of 6

Project No./Code
 BR 0252-407
 17783
 Sheet Number 399

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 10/20/2010 CDDT-PDFDraftQuality_XM.plt cddt-penTable.tbl



- PLAN NOTES:
1. SIGN STRUCTURE AND FOOTINGS SHALL BE IN CONFORMANCE WITH CDDT STANDARD S-614-50.
 2. DESIGN WIND SPEED: 80 MPH
 3. THE POLE FOOTING BETWEEN I-25 AND RAMP 3 SHALL INCLUDE 2-2 INCH CONDUIT CONNECTIONS TO AN ADJACENT PULL BOX FOR FUTURE WIRE ACCESS. WORK AND MATERIAL SHALL BE INCIDENTAL TO THE CAISSON INSTALLATION. (REFER TO CDDT STANDARD M-613-1, SHEET 3, ALTERNATIVE DETAIL).
 4. NO WALKWAYS OR LIGHTING SHALL BE INSTALLED ON THE SIGN STRUCTURE.
 5. THE MEDIAN BARRIER SHALL BE TRANSITIONED AROUND THE POLE FOOTING USING FLARE RATES FROM CDDT STANDARD M-606-13.

SOUTHBOUND I-25 (LOOKING NORTH)
STA. 622+00

Print Date: 10/20/2010
 File Name: 16311TRAF_PH2_GuideSign_Section5.dgn
 Horiz. Scale: 1:10 Vert. Scale: As Noted
 Unit Information Unit Leader Initials

Sheet Revisions		
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Region 6 RLB

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I-25/SANTA FE INTERCHANGE
 GUIDE SIGN CROSS SECTION
 STA. 622+00 (SB I-25)

Designer: LCL Structure Numbers: F-17-AE
 Detailer: LCL

Sheet Subset: TRAFFIC Subset Sheets: S-5 of 6

Project No./Code

BR 0252-407

17783

Sheet Number 400

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