

Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED FEDERAL AID PROJECT NO. FBR 0063-046 US 6 OVER GARRISON STREET JEFFERSON COUNTY CONSTRUCTION PROJECT CODE NO. 19478

Related Projects:
P. E. UNDER PROJECT:
Project Number FBR0063-046
Project Code: 19478

R.O.W. Projects:
R.O.W. Project Description
xxxx

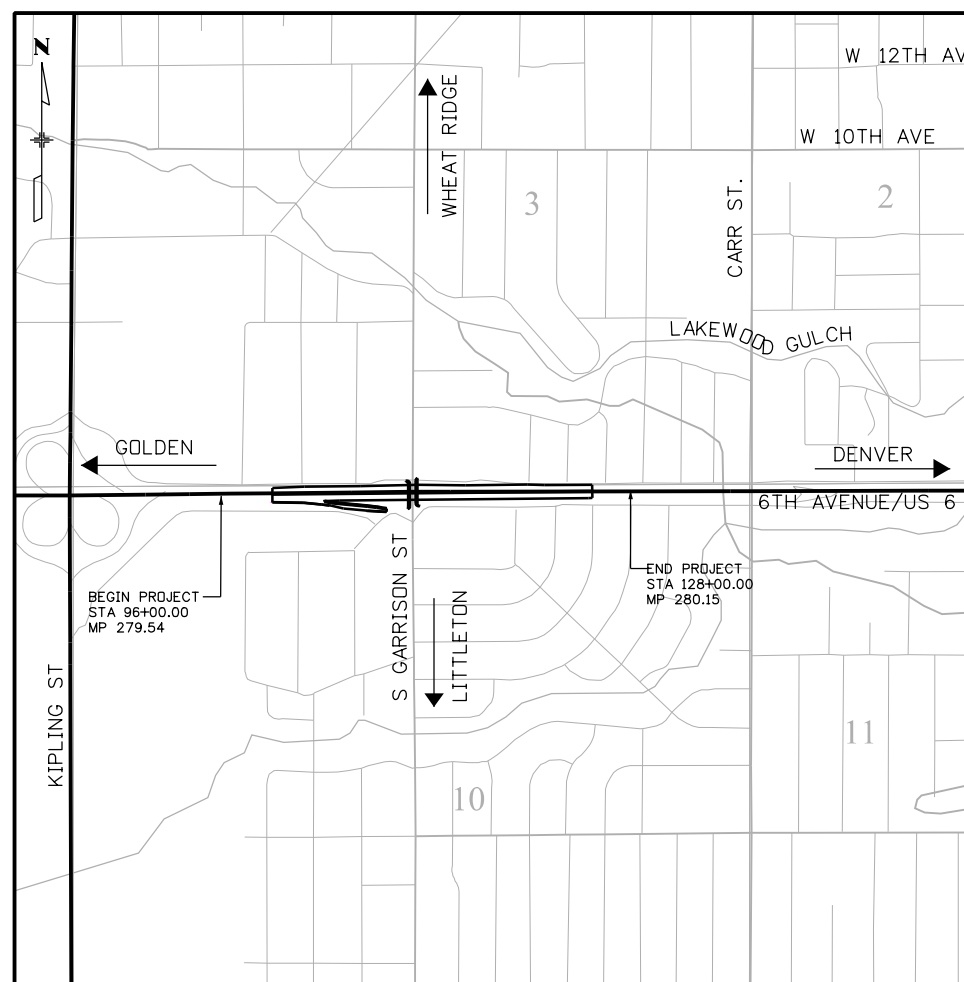
TABULATION OF LENGTH

STATION			ALIGNMENT ID	FEET	
BEGIN	END	COMMENTS		ROADWAY	MAJOR STR.
STA 96+00.00	STA 110+57.06		US 6	1457.06	81.00
STA 110+57.06	STA 111+38.06		US 6 BRIDGE		
STA 111+38.06	STA 128+00.00		US 6	1661.94	
STA 300+00.00	STA 307+35.00		EB OFF RAMP	735.00	
STA 52+08.88	STA 54+49.44		GARRISON STREET	240.56	
TOTAL (FT)				4094.56	81.00
SUMMARY OF PROJECT LENGTH				FEET	MILES
MAJOR STRUCTURE				81.00 ▲	0.02 ▲
PROJECT GROSS LENGTH				4094.56	0.78

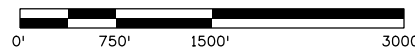
▲ Length of structure is not included in the length of project.

DESIGN DATA

	ROADWAY		
	US 6	GARRISON STREET	EB OFF RAMP
CLASSIFICATION	FREEWAY - URBAN	MAJOR COLLECTOR	NA
MINIMUM RADIUS OF CURVE	2040 FT	371 FT	833 FT
θ_{MAX}	6%	4%	6%
MAXIMUM GRADE	4.00%	11.00%	5% UPGRADE 4% DOWNGRADE
MINIMUM SSD HORIZONTAL	730 FT	250 FT	425 FT
MINIMUM SSD VERTICAL	NA	NA	NA
MAXIMUM DESIGN SPEED	70 MPH	35 MPH	50 MPH
2030 DESIGN TRAFFIC	DHV = WB 67 ADT = TBD	DHV = WB 40 ADT = TBD	2035 DHV = WB 50 2035 ADT = 17,700 N TBD%
DHV TRUCK %	TBD%	TBD%	TBD%
DESIRABLE CLEAR ZONE DISTANCE (TANGENT)	34 FT	22 FT	22 FT
DESIRABLE CLEAR ZONE DISTANCE (AT MIN. RADIUS)	45 FT	31 FT	31 FT
MIN CLEAR ZONE (OBJECT OFFSET FROM FACE OF CURB)	NA	18 IN	NA



PROJECT LOCATION MAP



SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS LIST
3	ABBREVIATIONS AND SYMBOLS
4-5	GENERAL NOTES
6-7	TYPICAL SECTIONS
8	SUMMARY OF APPROXIMATE QUANTITIES
9-12	LAND SURVEY CONTROL DIAGRAM
13	GEOMETRIC LAYOUT
14-25	CONSTRUCTION PHASING
26-28	REMOVAL PLANS
29-33	ROADWAY PLAN & PROFILES
34	GORE DETAILS
35-45	DRAINAGE PLANS & PROFILES
46-47	POND DETAILS
48-53	STORM WATER MANAGEMENT PLANS
54-55	TRAFFIC SIGNAL PLANS
56-61	UTILITY PLANS
62-65	BRIDGE PLANS
66-74	RETAINING WALL PLANS
75-109	CROSS SECTIONS

**POST FIR PLAN SET
APRIL 17, 2014**

NOT FOR CONSTRUCTION

Print Date: 7/29/2014

File Name: 19478-GEN-01.dgn

Horiz. Scale: 1:1500

Vert. Scale: As Noted

Unit Information



Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 1

425 B Corporate Circle
Golden, CO 80401
Phone: 720-497-6954 FAX: 720-497-6951

KPB

As Constructed

No Revisions:

Revised:

Void:

Contract Information

Contractor:

Resident Engineer: KEVIN BROWN

Project Engineer:

PROJECT STARTED: / / ACCEPTED: / /

Comments:

Project No./Code

FBR0063-046

19478

Sheet Number 1

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POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

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PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
M-100-1		STANDARD SYMBOLS (3 SHEETS).....	1-3
M-100-2		ACRONYMS AND ABBREVIATIONS (4 SHEETS).....	4-7
M-203-1	<input type="checkbox"/>	APPROACH ROADS (REVISED ON JULY 08, 2013).....	8
M-203-2		DITCH TYPES.....	9
M-203-11		SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS).....	10-12
M-203-12		SUPERELEVATION STREETS (2 SHEETS).....	13-14
M-206-1		EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS).....	15-16
M-206-2		EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS).....	17-18
M-208-1		TEMPORARY EROSION CONTROL (12 SHEETS).....	19-30
M-210-1		MAILBOX SUPPORTS (2 SHEETS).....	31-32
M-214-1		PLANTING DETAILS.....	33
M-412-1	<input type="checkbox"/>	CONCRETE PAVEMENT JOINTS (5 SHEETS) (REVISED ON JULY 24, 2012).....	34-38
M-510-1		STRUCTURAL PLATE PIPE H-20 LOADING.....	39
M-601-1	<input type="checkbox"/>	SINGLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013).....	40-41
M-601-2	<input type="checkbox"/>	DOUBLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013).....	42-43
M-601-3	<input type="checkbox"/>	TRIPLE CONCRETE BOX CULVERT (2 SHEETS) (REVISED ON AUGUST 27, 2013).....	44-45
M-601-10		HEADWALL FOR PIPES.....	46
M-601-11		TYPE "S" SADDLE HEADWALLS FOR PIPE.....	47
M-601-12		HEADWALLS AND PIPE OUTLET PAVING.....	48
M-601-20		WINGWALLS FOR PIPE OR BOX CULVERTS.....	49
M-603-1		METAL PIPE (4 SHEETS).....	50-53
M-603-2		REINFORCED CONCRETE PIPE.....	54
M-603-3		PRECAST CONCRETE BOX CULVERT.....	55
M-603-4		CORRUGATED POLYETHYLENE PIPE (AASHTO M294).....	56
M-603-5		POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304).....	57
M-603-10		CONCRETE AND METAL END SECTIONS (2 SHEETS).....	58-59
M-604-10		INLET, TYPE C.....	60
M-604-11		INLET, TYPE D.....	61
M-604-12		CURB INLET TYPE R (2 SHEETS).....	62-63
M-604-13		CONCRETE INLET TYPE 13.....	64
M-604-20		MANHOLES (3 SHEETS).....	65-67
M-604-25		VANE GRATE INLET (5 SHEETS).....	68-72
M-605-1		SUBSURFACE DRAINS.....	73
M-606-1		GUARDRAIL TYPE 3 W-BEAM (19 SHEETS).....	74-92
M-606-13	<input checked="" type="checkbox"/>	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS) (REVISED ON AUGUST 30, 2013).....	93-96
M-606-14		PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS).....	97-99

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
M-607-1		WIRE FENCES AND GATES (3 SHEETS).....	100-102
M-607-2		CHAIN LINK FENCE (3 SHEETS).....	103-105
M-607-3		BARRIER FENCE.....	106
M-607-4		DEER FENCE AND GATES (3 SHEETS).....	107-109
M-607-10		PICKET SNOW FENCE.....	110
M-607-15		ROAD CLOSURE GATE (9 SHEETS).....	111-119
M-608-1		CURB RAMPS (6 SHEETS).....	120-125
M-609-1	<input checked="" type="checkbox"/>	CURBS, GUTTERS, AND SIDEWALKS (4 SHEETS) (REVISED ON JULY 24, 2012).....	126-129
M-611-1		CATTLE GUARD (2 SHEETS).....	130-131
M-613-1		ROADWAY LIGHTING (4 SHEETS).....	132-135
M-614-1		RUMBLE STRIPS (3 SHEETS).....	136-138
M-614-2		SAND BARREL ARRAYS (2 SHEETS).....	139-140
M-615-1		EMBANKMENT PROTECTOR TYPE 3.....	141
M-615-2		EMBANKMENT PROTECTOR TYPE 5.....	142
M-616-1		INVERTED SIPHON.....	143
M-620-1		FIELD LABORATORY CLASS 1.....	144
M-620-2		FIELD LABORATORY CLASS 2 (2 SHEETS).....	145-146
M-620-11		FIELD OFFICE CLASS 1.....	147
M-620-12		FIELD OFFICE CLASS 2.....	148
M-629-1		SURVEY MONUMENTS (2 SHEETS).....	149-150

PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
S-612-1		DELINEATOR INSTALLATIONS (7 SHEETS).....	151-157
S-614-1	<input type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS) (REVISED ON MARCH 07, 2014).....	158-159
S-614-2		CLASS I SIGNS.....	160
S-614-3		CLASS II SIGNS.....	161
S-614-4		CLASS III SIGNS (3 SHEETS).....	162-164
S-614-5		BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS).....	165-166
S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS) (REVISED ON SEPTEMBER 16, 2013).....	167-168
S-614-8	<input type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (5 SHEETS) (REVISED ON MARCH 05, 2013).....	169-173
S-614-9		PEDESTRIAN PUSH BUTTON POST ASSEMBLY.....	174
S-614-10		MARKER ASSEMBLY INSTALLATIONS.....	175
S-614-11		MILEPOST SIGN DETAIL FOR HIGH SNOW AREAS.....	176
S-614-12		STRUCTURE NUMBER INSTALLATION.....	177
S-614-14		FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS).....	178-180
S-614-20		TYPICAL POLE MOUNT SIGN INSTALLATIONS.....	181
S-614-21		CONCRETE BARRIER SIGN POST INSTALLATIONS.....	182
S-614-22		TYPICAL MULTI-SIGN INSTALLATIONS.....	183
S-614-40		TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS).....	184-188
S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS) (REVISED ON SEPTEMBER 25, 2012).....	189-192
S-614-41		PEDESTAL POLE AND TEMPORARY SPAN WIRE SIGNALS.....	193
S-614-42		CABINET FOUNDATION DETAIL (4 SHEETS).....	194-197
S-614-43		TRAFFIC LOOP AND MISCELLANEOUS SIGNAL DETAILS (10 SHEETS).....	198-207
S-614-50	<input checked="" type="checkbox"/>	STATIC SIGN MONDTUBE STRUCTURES (12 SHEETS) (REVISED ON NOVEMBER 28, 2012).....	208-219
S-614-60	<input type="checkbox"/>	DYNAMIC SIGN MONDTUBE STRUCTURES (14 SHEETS) (REVISED ON NOVEMBER 28, 2012).....	220-233
S-627-1	<input checked="" type="checkbox"/>	PAVEMENT MARKINGS (5 SHEETS) (REVISED ON SEPTEMBER 16, 2013).....	234-238
S-630-1	<input checked="" type="checkbox"/>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (20 SHEETS) (REVISED ON MARCH 27, 2014).....	239-258
S-630-2		BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS.....	259
S-630-3		FLASHING BEACON (PORTABLE) DETAILS.....	260
S-630-4		STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS).....	261-262
S-630-5	<input type="checkbox"/>	PORTABLE RUMBLE STRIPS (TEMPORARY) (2 SHEETS) (REVISED ON JULY 26, 2013).....	263-264
S-630-6		EMERGENCY PULL-OFF AREA (TEMPORARY).....	265
S-630-7		ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS).....	266-268

COLORADO
DEPARTMENT OF TRANSPORTATION
M&S STANDARDS PLANS LIST
 July 04, 2012
 Revised on March 27, 2014

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

NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX , WILL BE ATTACHED TO THE PLANS.

Print Date: 7/2/2014	0000	Sheet Revisions			As Constructed		STANDARDS PLANS LIST			Project No./Code		
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Unit Information Unit Leader					Void:	Detailer: CS	Numbers			Sheet Number 2		
					 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1 KPB		Sheet Subset STANDARDS		Subset Sheets: ST1 of 1			

WORK IN PROGRESS

LIST OF PROJECT SPECIFIC ABBREVIATIONS:

A
 ABD ABANDONED
 AC ASBESTOS CEMENT
 AL ALUMINUM
 AHW ALLOWABLE HEADWATER
 AUX AUXILIARY LANE
 AV/AVE AVENUE
 AWWA AMERICAN WATER WORKS ASSOCIATION

B
 BRDG BRIDGE
 BLVD BOULEVARD
 BOTT BOTTOM
 BW BARBED WIRE
 BLK BLACK

C
 C CONTROL LINE
 CC CENTER OF CURVE
 CDDT/CDDH COLORADO DEPARTMENT OF TRANSPORTATION
 CFS CUBIC FEET PER SECOND
 CL CONTROL LINE
 CD. COMPANY
 COL CITY OF LAKEWOOD
 CMP CORRUGATED METAL PIPE
 CMW CONSOLIDATOR MUTUAL WATER COMPANY
 CS CURVE TO SPIRAL
 CSP CORRUGATED STEEL PIPE
 CTL CENTURY LINK
 C900 AWWA C900 DR25 PVC (PRESSURE RATED PLASTIC PIPE)
 CU COPPER

D
 DA DRAINAGE AREA
 DHW DESIGN HEADWATER
 DIP DUCTILE IRON PIPE
 DR DRIVE
 DWB DENVER WATER BERARTMENT
 DWG DRAWING

E
 e EXTERNAL DISTANCE
 ELEC ELECTRICAL
 ELEV ELEVATION
 ELT ELECTRIC TRANSMISSION
 EP EDGE OF PAVEMENT
 EX/EXIST EXISTING

F
 FA FORCE ACCOUNT
 FB STEEL
 F/FL FLOWLINE
 FO FIBER OPTIC
 FOC FIBER OPTIC CABLE
 FPS FOOT PER SECOND
 FT FOOT

G
 GB GRADE BREAK

H
 HERCP HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
 HDPE HIGH-DENSITY POLYETHYLENE PIPE
 HGL HYDRAULIC GRADE LINE
 HMA HOT MIX ASPHALT
 HP HINGE POINT
 HPTRM HIGH PERFORMANCE TURF REINFORCEMENT MAT
 HW/D HEADWATER TO DEPTH RATIO

I
 IP INTERMEDIATE PRESSURE
 IRR IRRIGATION
 INV INVERT
 ITS INTELLIGENT TRANSPORTATION SYSTEMS

K
 K LENGTH OF VERTICAL CURVE PER CHANGE IN GRADE
 KVA KILO-VOLT AMPERES

L
 L LENGTH OF CURVE
 LAT LATERAL
 LF LINEAR FEET

M
 MDS MAXIMUM DESIGN SPEED
 MH MANHOLE
 ML MAINLINE
 MW MILL WRAP STEEL

N
 NA NOT APPLICABLE
 NC NORMAL CROWN
 NF NOT FOUND

O
 OH OVERHEAD
 OHE OVERHEAD ELECTRIC
 OHFO OVERHEAD FIBER OPTIC
 OHT OVERHEAD TELEPHONE
 O/S OFFSET

P
 PC POINT OF CURVATURE
 PCC POINT OF COMPOUND CURVATURE
 PCCP PORTLAND CEMENT CONCRETE PAVEMENT
 PCR POINT OF CURB RETURN
 PE POLYETHYLENE
 PED POLYETHYLENE DISTRIBUTION
 PH POTHOLE
 PI POINT OF INTERSECTION
 P/PL PROPERTY LINE
 POB POINT OF BEGINNING
 POE POINT OF ENDING
 PR/PROP PROPOSED
 PRVT PRIVATE
 PVC POLYVINYL CHLORIDE
 PVRC POINT OF VERTICAL REVERSE CURVATURE
 PVT POINT OF VERTICAL TANGENCY

R
 RCP REINFORCED CONCRETE PIPE
 RD ROAD
 REINF REINFORCEMENT
 RET RETAINING
 ROW RIGHT OF WAY

S
 SAN SWR SANITARY SEWER
 SD STOPPING DISTANCE
 SDR STANDARD DIMENSION RATIO
 SRB SOIL RETENTION BLANKET
 SRT SLOTTED RAIL TERMINAL
 SSD STOPPING SIGHT DISTANCE
 St STREET
 STM STORM
 SUPER SUPERELEVATION
 SVC SERVICE
 SWC SWITCH CABINET

T
 T TANGENT DISTANCE
 TBW TOP BACK WALK
 TEL TELEPHONE
 TEMP TEMPORARY
 TOW TOP OF WALL
 TP TERMINAL POLE
 TS TANGENT TO SPIRAL
 TV TELEVISION

U
 U UNKNOWN
 UGE UNDERGROUND ELECTRIC
 UGFO UNDERGROUND FIBER OPTIC
 UGT UNDERGROUND TELEPHONE
 UGTV UNDERGROUND TELEVISION

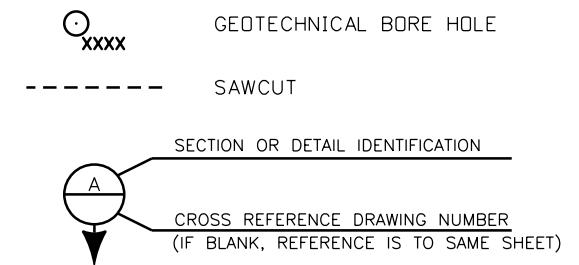
V
 VCP VITRIFIED CLAY PIPE
 VT VOLT

W
 W WIDTH
 WB WESTBOUND
 WTR WATER
 WQ WATER QUALITY

Y
 YR YEAR

X
 XFMR TRANSFORMER
 XING CROSSING

LIST OF SYMBOLS:



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File Name: 19478-GEN-03.dgn		Date:	Comments	Init.		No Revisions:			?		
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Unit Information Unit Leader						Void:	Detailer: CS	Numbers	Sheet Number 3		
					Sheet Subset: ABBR.	Subset Sheets: AB1 of 1					

WORK IN PROGRESS

1. ALL CONSTRUCTION SHALL BE PER THE 2011 CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR'S SURVEYOR SHALL STAKE ALL ROW, (INCLUDING TEMPORARY AND PERMANENT EASEMENTS) PRIOR TO ANY WORK OCCURRING IN THE AREA. ONCE ROW IS CLEARLY MARKED, THE CONTRACTOR SHALL KEEP ALL MATERIALS, EQUIPMENT, AND VEHICLES WITHIN THE PROJECT ROW, TEMPORARY AND PERMANENT EASEMENT; THIS INCLUDES USING PRIVATE ROW AS DRIVEWAYS AND ACCESSES FOR EQUIPMENT OR VEHICLES. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN A STOP WORK ORDER BEING ISSUED.
3. 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)
HOT MIX ASPHALT.....@ 110 LBS./SQ. YD./INCH
AGGREGATE BASE COURSE CLASS-6@ 133 LBS./CU. FT.
4. ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER. DILUTED EMULSIFIED APPLICATION RATE MAY BE ADJUSTED BY THE ENGINEER.
5. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED TO IMPROVE BOND AT THE FOLLOWING LOCATIONS:
- BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
- ALONG THE FACE OF ALL CURBS, GUTTERS, MANHOLES, ADJACENT EXISTING PAVEMENT, AND OTHER SURFACES AGAINST WHICH ASPHALT WILL BE PLACED
- BETWEEN LAYERS OF BITUMINOUS PAVEMENT.
6. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER. WATER WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF THE WORK.
7. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL LANE WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
8. ALL SMOOTHNESS SHALL BE PER BOOK 2 SECTION 10 OF THE RFP.
9. DETOUR PAVEMENT WILL NOT BE SUBJECT TO THE SMOOTHNESS INCENTIVE.
10. NO STOCKPILING MATERIAL WITHIN PROJECT LIMITS UNLESS APPROVED BY THE ENGINEER. STOCKPILE OF MATERIALS AND PROTECTION OF STOCK PILES IS INCIDENTAL TO WORK PERFORMED.
11. ALL MATERIAL REMOVED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE.
12. PRIOR TO PLACING BITUMINOUS PAVEMENT, THE PAVED SURFACE SHALL BE SWEEPED AND CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE HOT MIX ASPHALT PAVEMENT ITEM.
13. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
FULL DEPTH OF ALL EMBANKMENTS.
BASES OF CUTS AND FILLS 6 INCHES.
14. TYPE OF COMPACTION FOR THIS JOB SHALL BE PER REVISION OF 203, 206, 403, AND 613 - COMPACTION OR PER THE ENGINEER.
15. SHOULDERING MATERIAL FROM EDGE OF PAVEMENT TO POSS SHALL BE COMPACTED USING MOISTURE DENSITY CONTROL AASHTO T-99.
16. 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.

17. THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 6 INCHES. TOPSOIL SHALL BE TREATED WITH AN HERBICIDE APPLICATION AFTER PLACEMENT AND BEFORE NATIVE SEEDING BY LICENSED HERBICIDE APPLICATOR. PLACEMENT SHALL NOT OCCUR UNTIL SLOPES THAT TOPSOIL IS BEING PLACED ON HAVE BEEN APPROVED BY THE ENGINEER.
18. CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS OF PIPE AND ELEVATIONS PRIOR TO PLACING ORDERS OF MATERIALS.
19. ALL REINFORCED CONCRETE PIPE AND CONCRETE END SECTIONS SHALL BE CLASS 7 IN ACCORDANCE WITH SECTIONS 603 OF THE STANDARD SPECIFICATIONS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE APPROPRIATE UTILITY REPRESENTATIVES TO BE ONSITE DURING POTHOLES AND SHALL LIKEWISE BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAYBE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL REFER TO THE UTILITY SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
21. PATCHING ON SIDE STREETS SHALL BE TO THE DEPTH OF THE SURROUNDING EXISTING PAVEMENT AS DIRECTED BY THE ENGINEER. MIX DESIGNS SHALL BE APPROVED BY THE ENGINEERING DIVISION PRIOR TO PLACEMENT OF THE FINAL SURFACE. THE CITY MAY TEST THE PAVEMENT DURING OR AFTER FINAL PLACEMENT TO DETERMINE COMPLIANCE WITH THESE SPECIFICATIONS, AND REQUIRE REMOVAL AND REPLACEMENT OF ANY PAVEMENT WHICH DOES NOT MEET SPECIFICATIONS.
22. 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 BOTH CONCRETE AND ASPHALT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF CONCRETE AND ASPHALT MAT. ALL SAW RESIDUE MATERIAL SHALL BE PROPERLY CONTAINED AND NOT ALLOWED TO DRAIN TO ANY STORM DRAINS OR WATERWAYS PER 101, 107, 208 SPECIFICATIONS.
23. 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.
24. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY EXCAVATION SUPPORT IN ACCORDANCE WITH OSHA REQUIREMENTS. TEMPORARY EXCAVATION SUPPORT WILL ONLY BE PAID FOR UNDER SHORING PAY ITEMS DESIGNATED ON THE PLANS. ANY OTHER SHORING NECESSARY TO COMPLETE THE WORK, IN ACCORDANCE WITH OSHA REQUIREMENTS, WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
25. ANY CURB AND GUTTER, WHICH IS TO REMAIN AND IS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
26. TO PROVIDE ADEQUATE SULFATE RESISTANCE IN ALL CONCRETE SUPPLIED, SEVERITY OF POTENTIAL EXPOSURE SHALL BE CLASS 0 FOR THIS PROJECT. THE CONTRACTOR MAY AT HIS OWN EXPENSE HAVE A CERTIFIED LABORATORY TEST THE SUB GRADE AS PER THE FIELD MATERIAL MANUAL. TESTING SHALL BE AT THE SAME SCHEDULE AND FREQUENCY AS REQUIRED FOR A PRELIMINARY SOIL SURVEY. THE CONTRACTOR MAY PROPOSE A DIFFERENT CLASS OF EXPOSURE FOR THE PROJECT BASED ON THOSE TEST RESULTS.
27. ALL CALLOUT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
28. ALL STATIONS SHOWN ON PLANS ARE ALONG PROJECTED CONTROL LINE UNLESS SPECIFIED OTHERWISE.
29. LOCATION OF PROFILE GRADE LINES SHALL BE WHERE SHOWN ON THE TYPICAL SECTIONS, AND SHALL COINCIDE WITH THE FINISHED SURFACE OF THE PAVEMENT TO BE PLACED ON THIS PROJECT UNLESS OTHERWISE NOTED.
30. THE CONTRACTOR SHALL PERFORM A COMPLETE INVENTORY OF ALL EXISTING SIGNS ON THE PROJECT PRIOR TO STARTING ANY WORK. THIS INVENTORY SHALL INCLUDE THE EXACT LOCATION, SIZE, SHAPE, COLOR, LEGEND, AND HEIGHT OF EVERY EXISTING SIGN ON THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER IN WRITING. PAYMENT WILL NOT BE MADE FOR ANY SIGN WORK UNTIL SUCH TIME AS THIS INVENTORY IS SUBMITTED.

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Print Date: 7/30/2014	0000	Sheet Revisions			Colorado Department of Transportation  425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed		GENERAL NOTES		Project No./Code	
File Name: 19478-GEN-04.dgn		Date:	Comments	Init.		No Revisions:			FBR 0063-046		
Horiz. Scale: 1:1 Vert. Scale: _						Revised:	Designer:	Structure Numbers	19478		
Unit Information _ Unit Leader _						Void:	Sheet Subset: G. NOTES Subset Sheets: GN1 of 2		Sheet Number 4		

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31. UTILITY LINES AS SHOWN ON THE PLAN SHEETS IS PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105.11 OF THE STANDARD SPECIFICATIONS CONCERNING UTILITIES.
32. 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 PHONE NUMBER 811, 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.
33. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY DETOUR SIGNS AT THE COMPLETION OF WORK FOR WHICH THE DETOUR SIGNS WERE INSTALLED.
34. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING SIGNS DAMAGED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
35. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN DRAINAGE DURING THE WORK. ANY EXTRA WORK NECESSARY AS A RESULT OF THE CONTRACTOR'S FAILURE TO PERFORM DRAINAGE MAINTENANCE DURING WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
36. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER THAT STORM WATERS MAY PROCEED UNINTERRUPTED ALONG THEIR STREET OR DRAINAGE COURSES. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS INVESTIGATED THE RISK ARISING FROM SUCH WATERS AND HAS PREPARED HIS BID ACCORDINGLY, AND ASSUMES ALL OF THE SAID RISK. ANY DAMAGE DONE DURING STORM FLOWS TO TEMPORARY OR PARTIALLY COMPLETED STRUCTURES OR RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
37. RAP MILLINGS SHALL NOT BE SUBSTITUTED FOR ANY ABC CLASS AND SHALL NOT BE PLACED WITHIN THE PAVEMENT PRISM, AS DEFINED BY SECTION 203 OF THE 2011 CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITHOUT PRIOR APPROVAL OF THE ENGINEER AND REGION 1 MATERIALS.
38. AT NO TIME SHOULD THE BLUNT END OF A BARRIER BE EXPOSED TO ONCOMING TRAFFIC.
39. INSPECTIONS OF THE SITE BY THE CONTRACTOR WILL BE DONE WEEKLY AND AFTER STORM EVENTS THAT PRODUCE RUNOFF. INSPECTION FORMS WILL BE FAXED WEEKLY TO LAKEWOOD AT 303-987-7910. INSPECTIONS SHALL BE IN ACCORDANCE WITH SUBSECTION 208.03(C).
40. THE CONTRACTOR SHALL MAINTAIN, REFUEL, AND STAGE CONSTRUCTION EQUIPMENT AWAY FROM RIPARIAN AREAS, WEED-INFESTED AREAS, WETLANDS, OR PRAIRIE DOG HABITAT. THE CONTRACTOR SHALL CAREFULLY STORE CONSTRUCTION MATERIALS AND SUPPLIES TO MINIMIZE THE POTENTIAL FOR DEBRIS AND SPILLS CONTAMINATING SAID AREAS. PROTECT EXISTING VEGETATION OUTSIDE OF CONSTRUCTION LIMITS.
41. ASPHALT JOINTS SHALL FALL ON LANE LINES, SHOULDERS LINES OR MEDIAN LINES, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
42. CONTRACTORS WILL USE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) APPROVED AMBIENT SOUND-LEVEL SENSING BACKUP ALARMS, TO REDUCE DISTURBANCES TO NEARBY RESIDENTS FROM BACKUP ALARMS DURING QUIETER PERIODS.
43. CONSTRUCTION EQUIPMENT WILL BE TURNED OFF DURING PROLONGED PERIODS OF NON-USE TO ELIMINATE NOISE FROM CONSTRUCTION EQUIPMENT DURING THOSE PERIODS.
44. THE CONTRACTOR SHALL TAKE MEASURES TO REDUCE ENERGY CONSUMPTION. MEASURES TAKEN WILL INCLUDE LIMITING IDLING OF CONSTRUCTION EQUIPMENT LOCATING CONSTRUCTION STAGING AREA CLOSE TO THE WORK SITE, MINIMIZING MOTORIST DELAYS AND VEHICLE IDLING, AND COORDINATING GENERAL MAINTENANCE ACTIVITIES DURING CONSTRUCTION TO AVOID EXCESSIVE QUEUING AND CONSTRUCTION DELAYS DURING PEAK HOURS.
45. STATIONARY EQUIPMENT WILL BE LOCATED AWAY FROM RECEIVING PROPERTIES TO DECREASE NOISE IMPACTS WHERE FEASIBLE.

46. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER.
47. ALL MATERIAL GENERATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED FROM THE PROJECT SITE AT NO COST TO THE PROJECT UNLESS SPECIFIED BY THE PLANS. ALL MATERIAL REMOVED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THIS INCLUDES, BUT MAY NOT BE LIMITED TO:
 - EXCESS EXCAVATION
 - ROCKS
 - PAVEMENT
 - REMOVED DRAINAGE AND UTILITY STRUCTURES
 - DEMOLITION DEBRIS
48. MILLINGS SHALL BECOME THE PROPERTY OF CDOT. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY EQUIPMENT TO HAUL THIS MATERIAL TO A DESIGNATED LOCATION AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
49. NO RIGHT-OF-WAY ACQUISITION WILL BE NEEDED FOR THIS PROJECT. ALL WORK WILL BE COMPLETED ENTIRELY WITHIN THE EXISTING RIGHT-OF-WAY.
50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND ADHERING TO LOCAL ORDINANCES.
51. ALL VEHICLES HAULING SOIL AND OTHER MATERIALS SHALL BE COVERED PRIOR TO LEAVING THE CONSTRUCTION SITE.
52. FULL COMPLIANCE PAVEMENT MARKINGS SHALL BE INSTALLED AT THE CONCLUSION OF EACH WORKING DAY BEFORE THE ROADWAY OPENS TO TRAFFIC. ANY COSTS INCURRED AS A RESULT OF THE CONTRACTORS FAILURE TO COMPLY SHALL BE BORNE BY THE CONTRACTOR.
53. (NOTE IS NOT USED)
54. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE PARKING VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS. ANY OFF ROAD STAGING AREAS MUST BE PRE-APPROVED BY THE PROJECT ENGINEER.
55. IF ANY PALEONTOLOGICAL OR BURIED CULTURAL REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, WORK SHALL STOP IMMEDIATELY AND KIRK WEBB CDOT, ENVIRONMENTAL MANAGER, SHALL BE NOTIFIED AT (303) 757-9866.
56. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED CONTINUALLY AS DRAINAGE FEATURES ARE BEING CONSTRUCTED. MEASURES SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETE OR AS DIRECTED BY THE PROJECT ENGINEER.
57. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED BEFORE CONSTRUCTION AND GRADING OPERATIONS BEGIN. ALL EROSION/SEDIMENT CONTROL BMPs SHALL BE PLACED AS NEEDED ACCORDING TO THE CONSTRUCTION PHASING AND AS APPROVED BY THE ENGINEER. ALL EROSION/SEDIMENT CONTROL AND STORMWATER RESPONSIBILITIES ARE AS STATED IN THE STORMWATER MANAGEMENT PLAN, SPECIFICATIONS 101, 107, 208, 212, 213, 214, AND 216, SHALL BE FOLLOWED OR AMENDED.
58. ALL LANDSCAPING WITHIN THE PROJECT AREA THAT IS NOT SPECIFIED FOR REMOVAL AND IS DAMAGED BY THE CONTRACTOR, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
59. THIS PROJECT IS COVERED BY COLORADO DISCHARGE PERMIT SYSTEM - STORMWATER CONSTRUCTION PERMIT (CDPS-SCP). ALL PERMIT REQUIREMENTS SHALL BE ADHERED TO BY THE CONTRACTOR. CDOT WILL OBTAIN THE PERMIT PRIOR TO ADVERTISEMENT AND WILL TRANSFER THE PERMIT TO THE CONTRACTOR PRIOR TO THE INITIAL BMP WALK-THROUGH.

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Colorado Department of Transportation

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Golden, CO 80401
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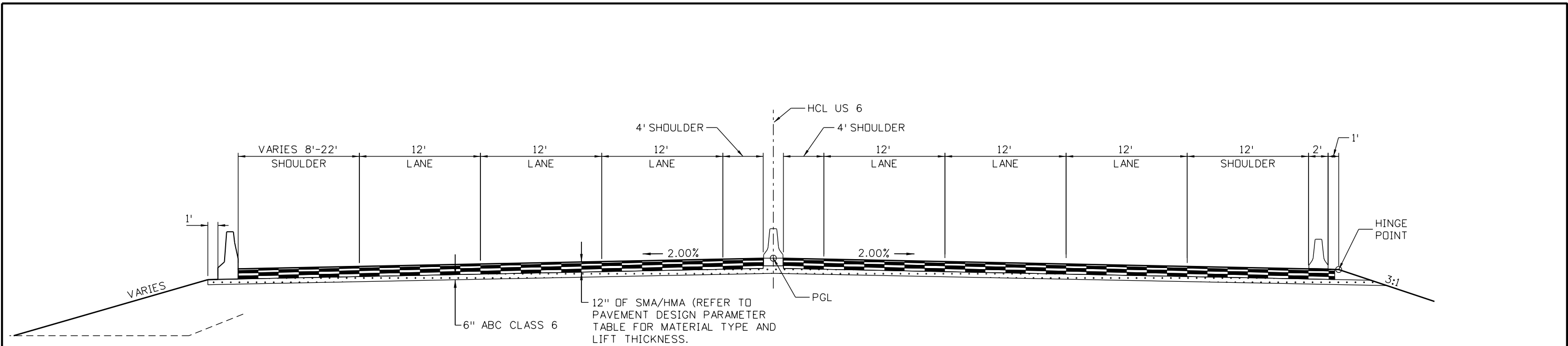
Region 1 KPB

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GENERAL NOTES			
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Detailer:	CS	Numbers	
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Project No./Code
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Sheet Number 5

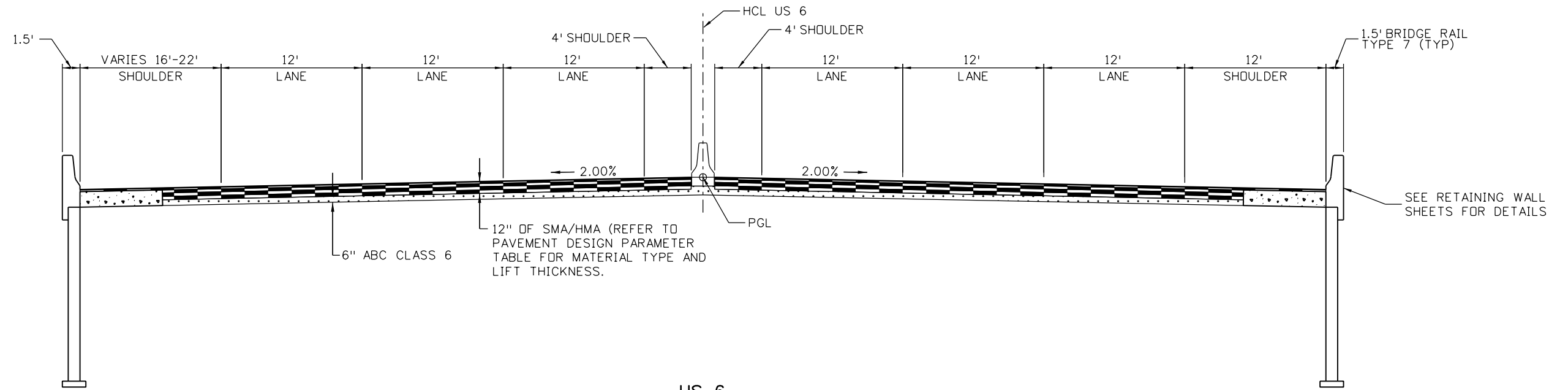
WORK IN PROGRESS



**US 6
TYPICAL SECTION**

NOTE:

- 1. FROM STA. 119+75.00 TO 125+21.06 THERE WILL BE OFFSET BARRIER.



**US 6
WALLS TYPICAL SECTION**

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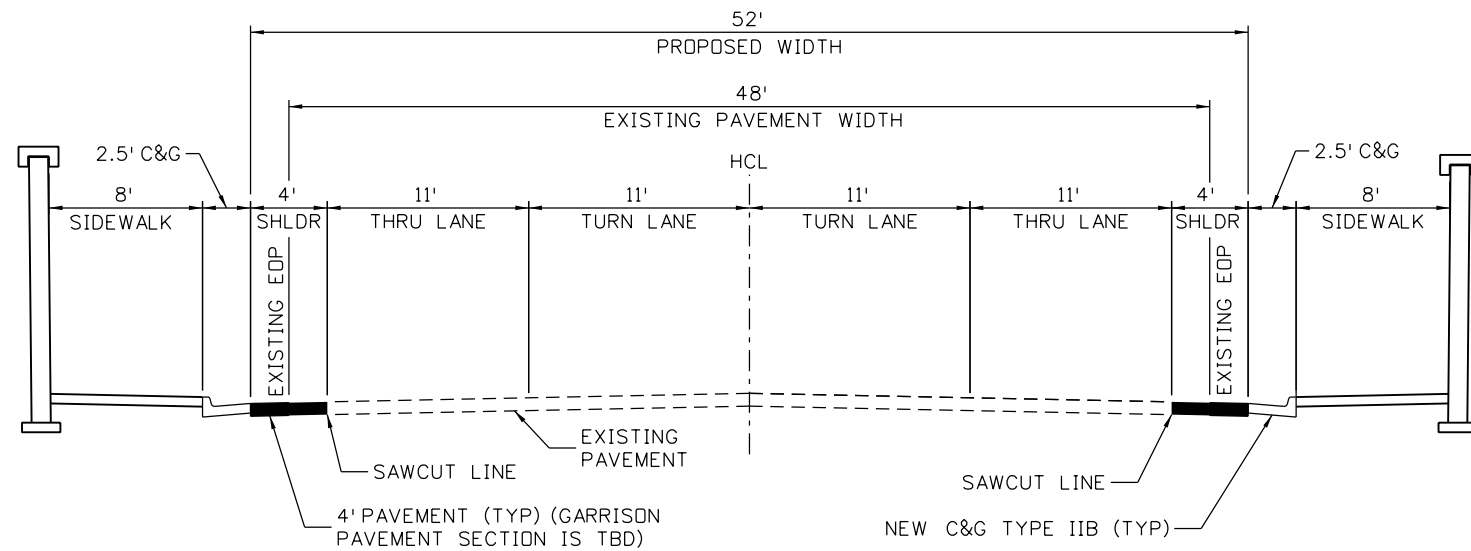
Region 1 **KPB**

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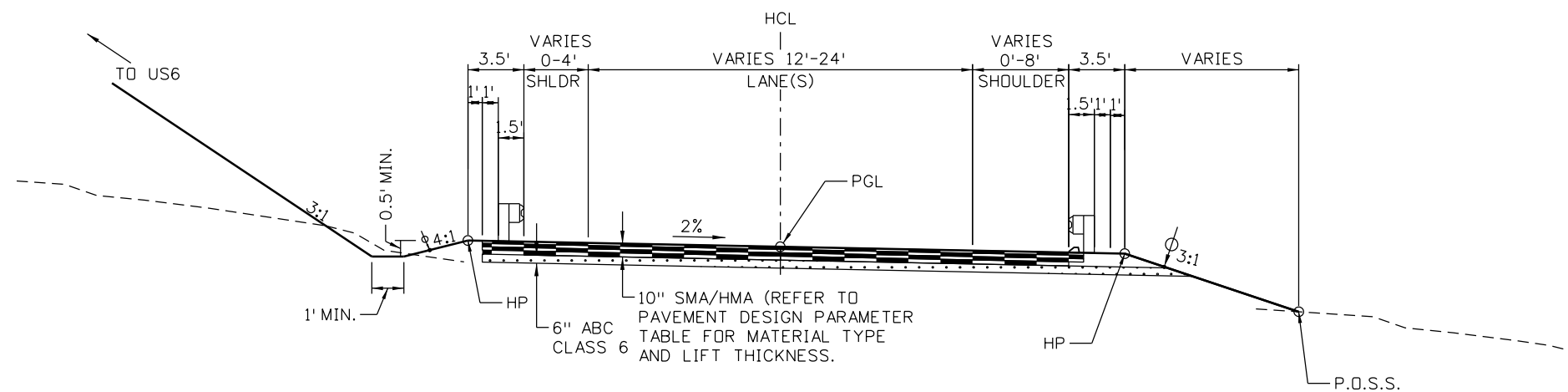
TYPICAL SECTIONS			
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Detailer:	CS	Numbers	
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Project No./Code
FBR 0063-046
19478
Sheet Number 6

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GARRISON STREET



EB OFF RAMP

FLEXIBLE PAVEMENT DESIGN PARAMETER TABLE			
DESIGN PARAMETER	US 6 (E OF GARRISON ST)	US 6 (W OF GARRISON ST)	EB OF US6 EXIT RAMP
DESIGN LIFE (YEARS):	20	20	20
18k ESAL:	5,400,000	5,900,000	1,500,000
% TRUCKS:	3.2%	3.2%	3%
INITIAL SERVICEABILITY:	4.5	4.5	4.5
TERMINAL SERVICEABILITY:	2.5	2.5	2.5
% RELIABILITY:	95	95	95
R-VALUE DESIGN:	5	5	5
SOIL RESILIENT MODULUS (PSI):	3,025	3,025	3,025
STRUCTURAL COEFFICIENT (HMA):	0.44	0.44	0.44
STRUCTURAL COEFFICIENT (ABC):	0.15	0.15	0.15
REQUIRED STRUCTURAL NUMBER (IN):	6.06	6.13	5.11
DRAINAGE COEFFICIENT:	1.0	1.0	1.0
PAVEMENT THICKNESS (IN):	12	12	10
BASE THICKNESS (IN):	6	6	6
HMA GRADING:	HMA (GRADING S) (100) (PG 64-22)	HMA (GRADING S) (100) (PG 64-22)	HMA (GRADING S) (100) (PG 64-22)
BOTTOM LIFT THICKNESSES FROM LOWER TO UPPER LIFT (IN):	2.5"-2.5"-2.5"-2.5"	2.5"-2.5"-2.5"-2.5"	3"-2.5"-2.5"
SMA GRADING:	GRADING SMA (FIBERS)(ASPHALT)	GRADING SMA (FIBERS)(ASPHALT)	GRADING SMA (FIBERS)(ASPHALT)
TOP LIFT THICKNESS (IN):	2"	2"	2"

NOTE: GARRISON PAVEMENT SECTION IS TBD.

NOTE

GUARDRAIL ON RIGHT RAMP SHOULDER TRANSITIONS INTO AN OFFSET BARRIER. SEE PLANS.


P.O.S.S.

- POINT OF SLOPE SELECTION
- MINIMUM 4" TOPSOIL OR SPECIFIED ALTERNATIVE

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Colorado Department of Transportation

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Region 1 **KPB**

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TYPICAL SECTIONS			
Designer:	CH	Structure	
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Sheet Subset: TYP. SEC.		Subset Sheets: TS2 of 2	

Project No./Code
FBR 0063-046
19478
Sheet Number 7

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CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	Roadway Quantity	Bridge Quantity	Wall Quantity
201-00001	Clearing and Grubbing	ACRE	3		
202-00000	Removal of Structures and Obstructions	L S			1
202-00010	Removal of Tree	EACH	34		
202-00019	Removal of Inlet	EACH	2		
202-00021	Removal of Manhole	EACH	1		
202-00026	Removal of Slope and Ditch Paving	SY	581		
202-00035	Removal of Pipe	LF	188		
202-00160	Removal of Wall	SF	12,737		
202-00200	Removal of Sidewalk	SY	477		
202-00201	Removal of Curb	LF	258		
202-00203	Removal of Curb and Gutter	LF	1,314		
202-00206	Removal of Concrete Curb Ramp	SY	33		
202-00210	Removal of Concrete Pavement	SY	484		
202-00220	Removal of Asphalt Mat	SY	29,921		
202-00400	Removal of Bridge	EACH		1	
202-00828	Removal of Traffic Signal Equipment	L S	1		
202-01000	Removal of Fence	LF	69		
202-01130	Removal of Guardrail Type 3	LF	2,993		
202-01170	Removal of Guardrail Type 7	LF	3,363		
202-04000	Plug Structure	EACH	1		
203-00060	Embankment Material (Complete In Place)	CY	8,070		
203-01100	Proof Rolling	HOURL	40		
203-01597	Potholing	HOURL	100		
206-00000	Structure Excavation	CY		3,140	23,878
206-00100	Structure Backfill (Class 1)	CY		3,140	29,503
206-00360	Mechanical Reinforcement of Soil	CY		2,489	25275
206-01781	Shoring (Area 1)	L S			1
206-01782	Shoring (Area 2)	L S			1
206-01783	Shoring (Area 3)	L S			1
206-01784	Shoring (Area 4)	L S			1
207-00205	Topsoil	CY	1,654		
207-00210	Stockpile Topsoil	CY	1,654		
208-00003	Erosion Log (18 Inch)	LF	4,843		
208-00020	Silt Fence	LF	1,495		
208-00030	Sediment Basin	EACH	1		
208-00035	Aggregate Bag	LF	60		
208-00041	Rock Check Dam	EACH	5		
208-00045	Concrete Washout Structure	EACH	2		
208-00051	Storm Drain Inlet Protection (Type 1)	LF	360		
208-00070	Vehicle Tracking Pad	EACH	7		
208-00103	Removal and Disposal of Sediment (Labor)	HOURL	40		
208-00105	Removal and Disposal of Sediment (Equipment)	HOURL	40		
208-00106	Sweeping (Sediment Removal)	HOURL	250		
208-00206	Erosion Control Supervisor	DAY	384		
210-00805	Reset Overhead Sign Structure	EACH	2		
210-00815	Reset Sign Panel	EACH	4		
210-00866	Reset Fire Preemption Unit and Timer	EACH	3		
210-04000	Adjust Structure	EACH	1		
212-00006	Seeding (Native)	ACRE	2		
212-00032	Soil Conditioning	ACRE	2		
213-00003	Mulching (Weed Free)	ACRE	1		
213-00061	Mulch Tackifier	LB	272		
216-00101	Soil Retention Blanket (Straw-Coconut) (Photodegradable Class 1)	SY	3,340		
240-00000	Wildlife Biologist	HOURL	20		
240-00010	Removal of Nests	HOURL	12		
304-06007	Aggregate Base Course (Class 6)	CY	5,053		
403-09221	Stone Matrix Asphalt (Fibers)(Asphalt)	TON	3,515		
403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	16,362		
411-10255	Emulsified Asphalt (Slow-Setting)	GAL	11,747		
503-00036	Drilled Caisson (36 Inch)	LF	72		
503-00048	Drilled Caisson (48 Inch)	LF	42		
509-00000	Structural Steel	LB			13,338
514-00000	Pipe Railing	LF			170
519-03035	Place Thin Bonded Overlay (Polyester Concrete)	SY		1,027	
519-03055	Furnish Thin Bonded Overlay (Polyester Concrete)	CF		770	
601-03040	Concrete Class D (Bridge)	CY		451	1,808
601-40300	Structural Concrete Coating	SY		300	
602-00000	Reinforcing Steel	LB		6,130	207,015
602-00020	Reinforcing Steel (Epoxy Coated)	LB		96,590	
603-01180	18 Inch Reinforced Concrete Pipe	LF	972		
603-01240	24 Inch Reinforced Concrete Pipe	LF	1,159		
603-05024	24 Inch Reinforced Concrete End Section	EACH	1		
604-00310	Inlet Type C (10 Foot)	EACH	1		
604-13005	Inlet Type 13 (5 Foot)	EACH	1		

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	Roadway Quantity	Bridge Quantity	Wall Quantity
604-19210	Inlet Type R L 10 (10 Foot)	EACH	1		
604-20000	Outlet Structure	EACH	2		
604-25005	Vane Gate Inlet (5 Foot)	EACH	8		
604-25010	Vane Gate Inlet (10 Foot)	EACH	5		
604-25015	Vane Gate Inlet (15 Foot)	EACH	2		
604-30005	Manhole Slab Base (5 Foot)	EACH	4		
604-30010	Manhole Slab Base (10 Foot)	EACH	2		
604-30015	Manhole Slab Base (15 Foot)	EACH	1		
604-30025	Manhole Slab Base (25 Foot)	EACH	1		
606-00301	Guardrail Type 3 (6-3 Post Spacing)	LF	886		
606-00710	Guardrail Type 7 (Style CA)	LF	2,500		
606-00720	Guardrail Type 7 (Style CC)	LF		125	
606-00740	Guardrail Type 7 (Style CE)	LF	1,656		
606-01370	Transition Type 3G	EACH	1		
606-10700	Bridge Rail Type 7	LF		251	
607-53137	Fence Chain Link (Special) (36 Inch)	LF		251	
608-00006	Concrete Sidewalk (6 Inch)	SY	343		
608-00010	Concrete Curb Ramp	SY	18		
608-00015	Detectable Warnings	SF	41		
609-21020	Curb and Gutter Type 2 (Section II-B)	LF	1,069		
609-60011	Curb Type 6 (Section M)	LF	446		
613-00075	3/4 Inch Electrical Conduit	LF		258	
613-00200	2 Inch Electrical Conduit	LF		251	
613-00206	2 Inch Electrical Conduit (Bored)	LF	1,000		
613-00306	3 Inch Electrical Conduit (Bored)	LF	532		
613-01200	2 Inch Electrical Conduit (Plastic)	LF	252		
613-01300	3 Inch Electrical Conduit (Plastic)	LF	118		
613-07003	Type Three Pull Box	EACH	6		
613-07004	Type Four Pull Box	EACH	2		
613-10000	Wiring	L S	1		
613-70250	Luminaire High Pressure Sodium (250 Watt)	EACH	6		
614-00011	Sign Panel (Class I)	SF	90		
614-00012	Sign Panel (Class II)	SF	140		
614-00013	Sign Panel (Class III)	SF	280		
614-01588	Steel Sign Support (2-1/2 Inch Round Sch 80)(Slipbase)	EACH	5		
614-70150	Pedestrian Signal Face (16) (Countdown)	EACH	12		
614-70336	Traffic Signal Face (12-12-12)	EACH	18		
614-70448	Traffic Signal Face (12-12-12-12)	EACH	4		
614-72863	Pedestrian Push Button Post Assembly	EACH	12		
614-72886	Intersection Detection System (Camera)	EACH	5		
614-81115	Traffic Signal Light Pole Steel (1-15 Foot Mast Arm)	EACH	1		
614-81125	Traffic Signal-Light Pole Steel (1-25 Foot Mast Arm)	EACH	2		
614-81130	Traffic Signal-Light Pole Steel (1-30 Foot Mast Arm)	EACH	3		
614-84100	Traffic Signal Pedestal Pole Aluminum	EACH	2		
614-85125	Impact Attenuator (Quadguard) (Wide)	EACH	2		
614-86246	Controller (Type 170E-HC11)	EACH	2		
614-86800	Uninterrupted Power Supply	EACH	2		
618-01992	Prestressed Concrete Box (Depth Less Than 32 Inches)	SF		8,850	
620-00002	Field Office (Class 2)	EACH	1		
620-00012	Field Laboratory (Class 2)	EACH	1		
620-00020	Sanitary Facility	EACH	1		
621-00450	Detour Pavement	SY	8,844		
621-00500	Temporary Bridge	L S		1	
625-00000	Construction Surveying	L S	1		
626-01000	Public Information Services	L S	1		
627-00005	Epoxy Pavement Marking	GAL	60		
627-00012	Pavement Marking Paint (Low VOC Solvent Base)	GAL	10		
627-01001	Preformed Plastic Pavement Marking (Type I)	SF	1,200		
627-02010	Preformed Plastic Pavement Marking (Type II) (Inlaid)	SF	800		
627-30327	Preformed Plastic Pavement Marking (Word-Symbol) (Type III)	SF	250		
627-30332	Preformed Plastic Pavement Marking (Xwalk-Stop Line) (Type III)	SF	650		
629-01001	Survey Monument (Type 1)	EACH	0		
629-01065	Survey Monument (Type 5S)	EACH	0		
629-01110	Locate Monuments	HOURL	4		
630-80370	Concrete Barrier (Temporary)	LF	9,000		
700-70010	F/A Minor Contract Revisions	F A	1		
700-70011	F/A Partnering	F A	1		
700-70012	F/A Asphalt 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	HOURL	40		
700-70034	F/A Pedestrian Access	F A	1		
700-70380	F/A Erosion Control	F A	1		
700-70589	F/A Environmental Health & Safety Management	F A	1		

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Colorado Department of Transportation



425 B Corporate Circle
Golden, CO 80401
Phone: 720-497-6954 FAX: 720-497-6951

Region 1 KPB

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No Revisions:
Revised:
Void:

SUMMARY OF APPROXIMATE QUANTITIES			
Designer:	LH	Structure Numbers	
Detailer:	CS		
Sheet Subset:	SAQ	Subset Sheets: SAQ1 of 1	

Project No./Code
FBR 0063-046
19478
Sheet Number 8

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Sheet Revisions			Sheet Revisions			Sheet Revisions		
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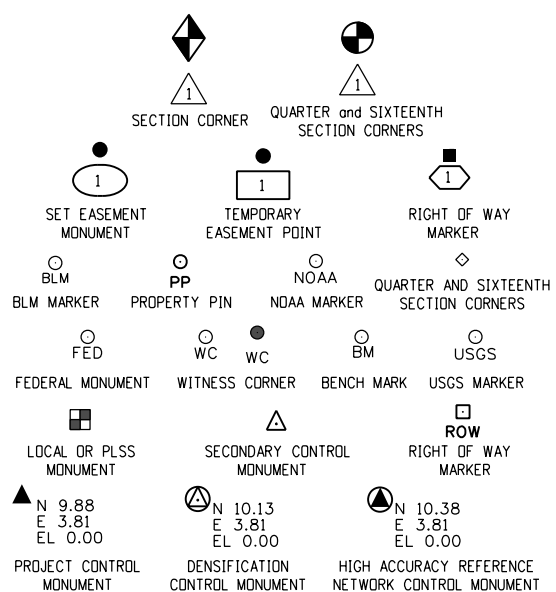
Land Survey Control Diagram			
Title Sheet			
Project Number:	FBR 0063-046		
Project Location:	SH-6, Road Improvements at Garrison St.		
Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County			
Project Code:	Last Mod. Date	Subset	Sheet No.
19478	11-18-13	1 of 4	4.01

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

PRELIMINARY LAND SURVEY CONTROL DIAGRAM

State Highway 6 MP 279.37 to 281.34
 Township 4 South, Range 69 West
 of the 6th Principle Meridian
 County of Jefferson

SHEET NO.	INDEX OF SHEETS
4.01	(1) Title Sheet
4.02	(1) Plan Sheet
4.03-4.04	(2) Monument Coordinate Tables
	(4) Total Sheets



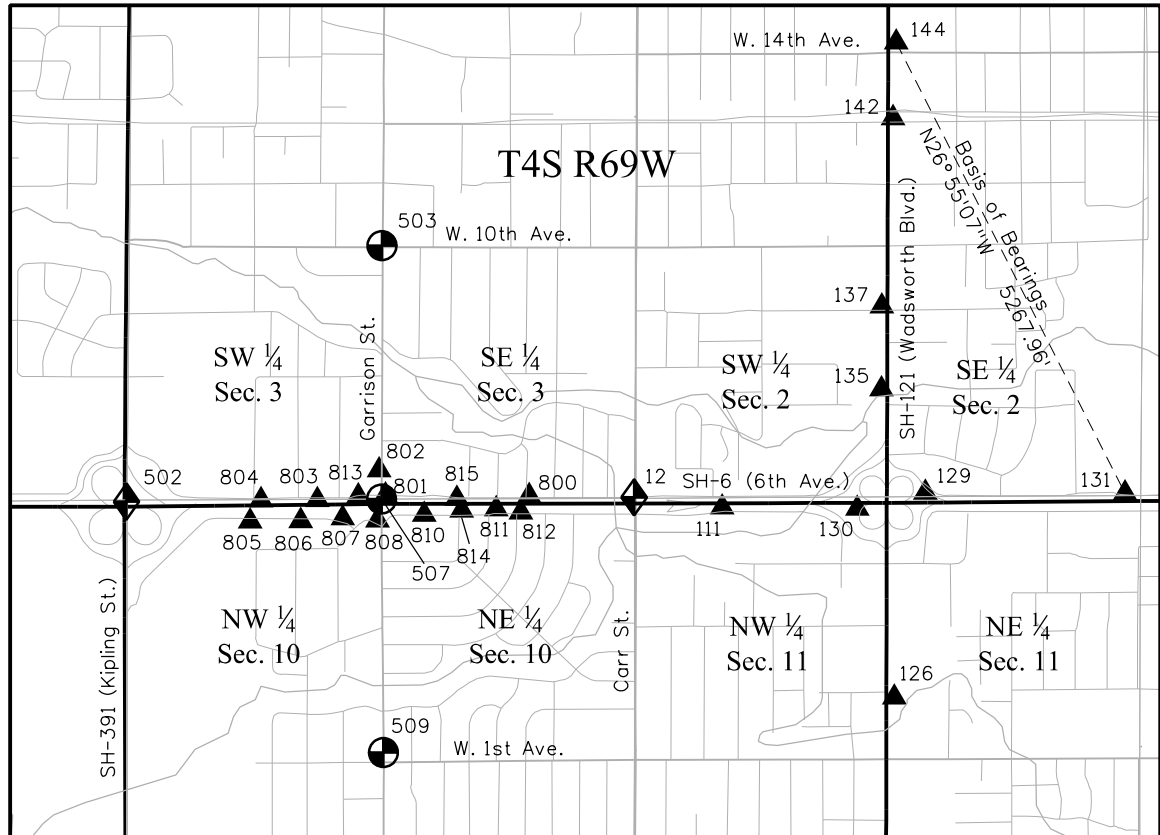
Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.

GENERAL NOTES:

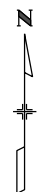
- This **Land Survey Control Diagram** is to document the recovery and/or establishment of survey points that will be the basis of future surveys for design purposes, right-of-way acquisitions, monumentation, and/or roadway construction. This Land Survey Control Diagram is not a Monumented Land Survey or a Boundary Survey and does not address matters of title.
- Coordinates established by Harris Kocher Smith for this Land Survey Control Diagram were based on a previously existing control network established by the Colorado Department of Transportation during a survey for Project No. STU 0062-019, Project Code 15215 and shown on diagrams deposited under Reception Nos. 2007087074 and 2011026028 in Jefferson County.
- BASIS OF BEARINGS:** Bearings are grid bearings of the Colorado state plane coordinate system of 1983, Central Zone (502). The line between Control Point 131 and Control Point 144, described herein, bears N26°55'07"W, a distance of 5267.96 feet.
- Project specific** (Ground) coordinates were obtained by multiplying the project's state plane coordinates by 1.0002596397 and then truncating the northing by 1,000,000 and the easting by 3,000,000. Published units are in US survey feet: 1 survey foot = (1200/3937) meters
- Horizontal Control Tolerances meet the precision requirements of CDOT type A control (+/- 0.07' with 95% certainty).
- Vertical Datum: Elevations are NAVD '88 Datum established by digital differential levels run from Point 111 (elevation = 5450.43) from CDOT Project No. STU 0062-019 having elevation established by digital differential levels run from NGS benchmark "E406" (PID KK11391), elevation = 5421.41'.
- Elevations on control points were established by digital differential levels with an accuracy meeting or exceeding 0.035' times the square root of the distance leveled in miles.

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.

NOTE: This Land Survey Control Diagram should be considered **PRELIMINARY AND SUBJECT TO CHANGE**, unless it bears the signature and seal of the Professional Land Surveyor in responsible charge.



PROJECT LOCATION MAP



Jefferson County Depositing Certificate:

Deposited this _____ day of _____, 201__ at _____ o'clock __.M. under
 Reception No. _____
 By: _____
 Title: _____

Surveyor's Statement (Land Survey Control Diagram):

I, **George G. Smith Jr.**, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that this **Land Survey Control Diagram** was prepared and the research, calculations and evaluation of the survey evidence were performed under my responsible charge and, based upon my knowledge, information and belief, in accordance with applicable standards of practice defined by Colorado Department of Transportation documents. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 19003 Date _____



425 A Corporate Circle
Golden, CO 80401
Phone: 720-497-6903 FAX: 303-365-7350

Region 1

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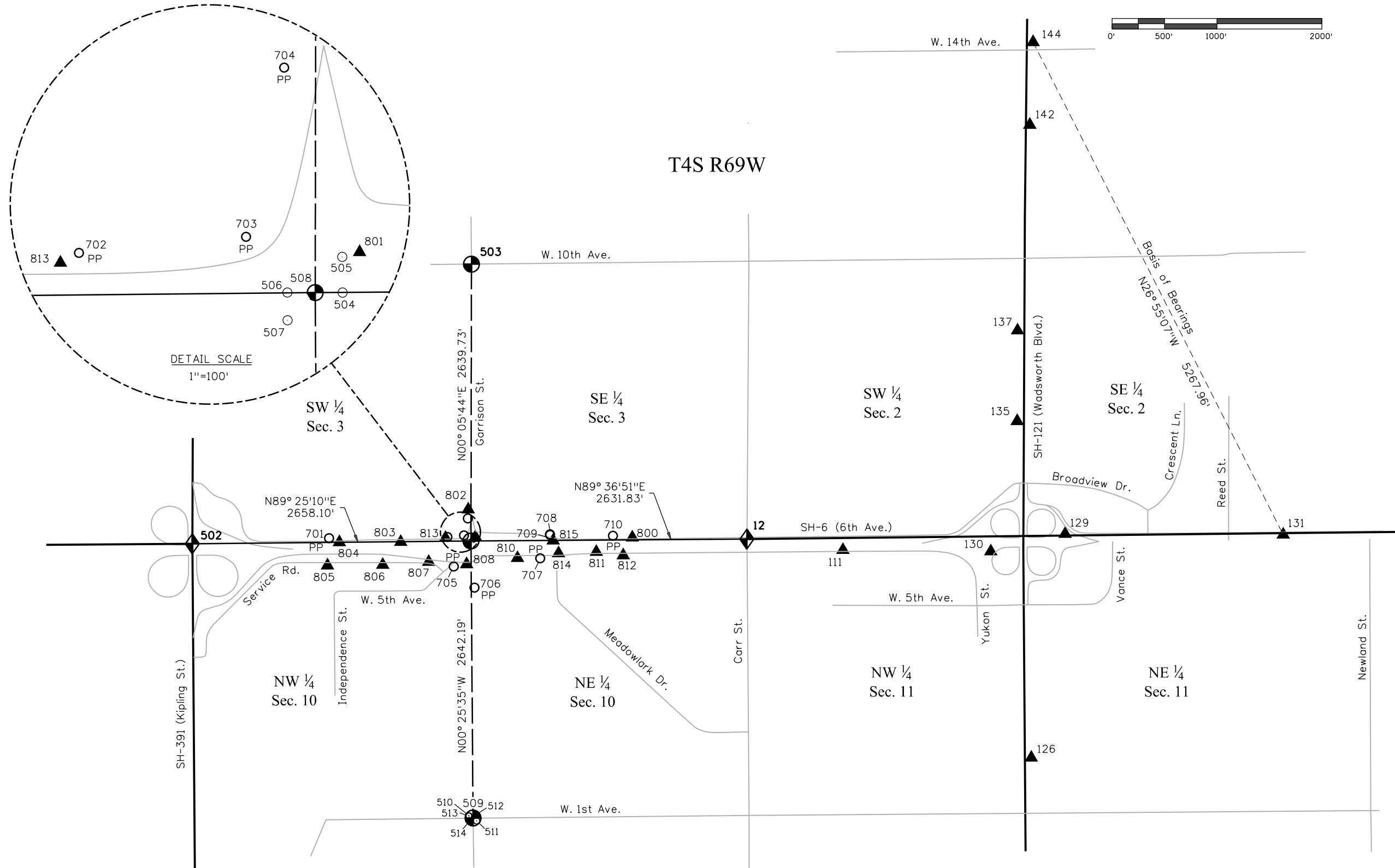


1120 Lincoln Street, Suite 1000
Denver, Colorado 80203
P: 303-623-6300 F: 303-623-6311
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Land Survey Control Diagram

Plan Sheet

Project Number: FBR 0063-046			
Project Location: SH-6, Road Improvements at Garrison St.			
Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
19478	11-18-13	2 of 4	4.02



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Date	Description	Initials
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Land Survey Control Diagram			
Tabulation Sheet			
Project Number:	FBR 0063-046		
Project Location:	SH-6 Road Improvements at Garrison St.		
	Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County		
Project Code:	Last Mod. Date	Subset	Sheet No.
19478	02-07-14	3 of 4	4.03

Existant Control from CDOT Project No. STU 0062-019 (15215)											
Geodetic and State Plane (NAD 1983-92 Zone 502) coordinates						Project Specific Coordinates				Description	
Point	Latitude	Longitude	Ellipsoid Height (sft)	Convergence Angle	Northing (sft)	Easting (sft)	Point	Northing (sft)	Easting (sft)	Elevation NAVD'88 (sft)	
111	39°43'31.35304"N	105°05'15.57105"W	5396.13	0°15'36.2"	1689360.871	3115983.304	111	689799.496	116792.337	5450.43	CDOT Type 6 Mon. w/ 2" Alum. Cap "CDOT CP 111"
126	39°43'11.70019"N	105°04'52.70821"W	5394.35	0°15'50.6"	1687380.484	3117778.805	126	687818.595	118588.304	5448.71	CDOT Type 5 Mon. "CP 126A 4.002076A"
129	39°43'32.76505"N	105°04'48.45127"W	5378.17	0°15'53.3"	1689513.449	3118101.586	129	689952.113	118911.169	5432.58	CDOT Type 2 Mon. "CP 129 4.006076"
130	39°43'31.15716"N	105°04'57.53696"W	5377.22	0°15'47.6"	1689347.485	3117392.448	130	689786.107	118201.847	5431.58	CDOT Type 2 Mon. "CP 130 4.006076C"
131	39°43'32.61005"N	105°04'21.83425"W	5362.17	0°16'10"	1689507.462	3120181.308	131	689946.125	120991.431	5416.74	CDOT Type 5 Mon. "CP 131 4.006074"
135	39°43'43.42515"N	105°04'54.24311"W	5353.85	0°15'49.7"	1690589.996	3117644.09	135	691028.939	118453.554	5408.25	CDOT Type 2 Mon. "CP 135 4.008076A"
137	39°43'51.96455"N	105°04'54.13929"W	5374.92	0°15'49.7"	1691454.088	3117648.223	137	691893.256	118457.688	5429.33	CDOT Type 5 Mon. "CP 137 4.009076A"
142	39°44'11.34064"N	105°04'52.52951"W	5383.70	0°15'50.7"	1693415.228	3117764.953	142	693854.906	118574.448	5438.15	CDOT Type 5 Mon. "CP 142 4.013076"
144	39°44'19.12834"N	105°04'52.07277"W	5381.84	0°15'51.0"	1694203.389	3117797	144	694643.271	118606.504	5436.34	CDOT Type 5 Mon. "CP 144 4.014076B"

Set Project Control by GPS, unless noted otherwise - Based on CDOT Project No. STU 0062-019 (15215) - Benched Elevations											
Geodetic and State Plane (NAD 1983-92 Zone 502) coordinates						Project Specific Coordinates				Description	
Point	Latitude	Longitude	Ellipsoid Height (sft)	Convergence Angle	Northing (sft)	Easting (sft)	Point	Northing (sft)	Easting (sft)	Elevation NAVD'88 (sft)	
800	39°43'32.62911"N	105°05'41.27494"W	5429.80	0°15'20"	1689480.952	3113974.413	800	689919.608	114782.924	5483.91	#5 Rebar w/ GPC
801	39°43'32.75649"N	105°06'00.42442"W	5444.02	0°15'08"	1689487.211	3112478.161	801	689925.868	113286.284	5498.03	#5 Rebar w/ GPC
802	39°43'35.34783"N	105d06'01.29312"W	5439.43	0°15'07"	1689749.115	3112409.135	802	690187.841	113217.239	5493.45	#5 Rebar w/ GPC
803	39°43'32.31002"N	105°06'09.53847"W	5457.15	0°15'02"	1689438.910	3111766.256	803	689877.555	112574.194	5511.10	#5 Rebar w/ GPC
804	39°43'32.31015"N	105°06'17.02127"W	5472.75	0°14'57"	1689436.373	3111181.606	804	689875.017	111989.392	5526.58	PK Nail & Washer
805	39°43'30.12586"N	105°06'18.49911"W	5473.97	0°14'57"	1689214.854	3111067.100	805	689653.441	111874.857	5527.85	#5 Rebar w/ GPC
806	39°43'30.15550"N	105°06'11.74450"W	5460.37	0°15'01"	1689220.153	3111594.846	806	689658.741	112402.740	5514.38	#5 Rebar w/ GPC
* 807	39°43'30.41996"N	105°06'06.14530"W	5453.35	0°15'04"	1689248.827	3112032.212	807	689687.423	112840.218	5507.37	3.5" Alum. Cap "CDOT CONTROL MILE POST 4.005093"
808	39°43'30.18333"N	105°06'01.51875"W	5448.19	0°15'07"	1689226.471	3112393.804	808	689665.061	113201.905	5502.24	Chiseled "X"
810	39°43'30.74152"N	105d05'55.29983"W	5445.23	0°15'11"	1689285.093	3112879.458	810	689723.698	113687.685	5499.39	Chiseled "X"
811	39°43'31.29117"N	105°05'45.68571"W	5435.68	0°15'17"	1689344.039	3113630.391	811	689782.659	114438.812	5489.76	PK Nail & Washer
812	39°43'30.95381"N	105°05'42.39163"W	5430.71	0°15'19"	1689311.048	3113887.918	812	689749.660	114696.407	5484.89	#5 Rebar w/ GPC
814	39°43'31.17006"N	105°05'50.28652"W	5440.50	0°15'14"	1689330.188	3113270.971	814	689768.804	114079.299	5494.55	#5 Rebar w/ GPC
815	39°43'32.37925"N	105°05'50.93960"W	5442.09	0°15'14"	1689452.312	3113219.402	815	689890.961	114027.717	5496.14	#5 Rebar w/ GPC

* Recovered existing monument and established project coordinates

Note: "GPC" indicates Green Plastic Cap

Project Control by Conventional Survey				
Project Specific Coordinates				Description
Point	Northing (sft)	Easting (sft)	Elevation NAVD'88 (sft)	
813	689915.669	113000.896	5502.67	PK Nail & Washer
816	689888.197	114442.482	5489.74	PK Nail in Asphalt
817	689663.375	112116.987	5521.88	PK Nail in Asphalt

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Denver, Colorado 80203
P: 303-623-6300 F: 303-623-6311
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Project Number: FBR 0063-046			
Project Location: SH-6 Road Improvements at Garrison St.			
Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
19478	02-07-14	4 of 4	4.04

Recovered Aliquot Points

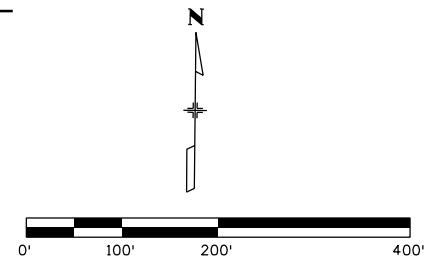
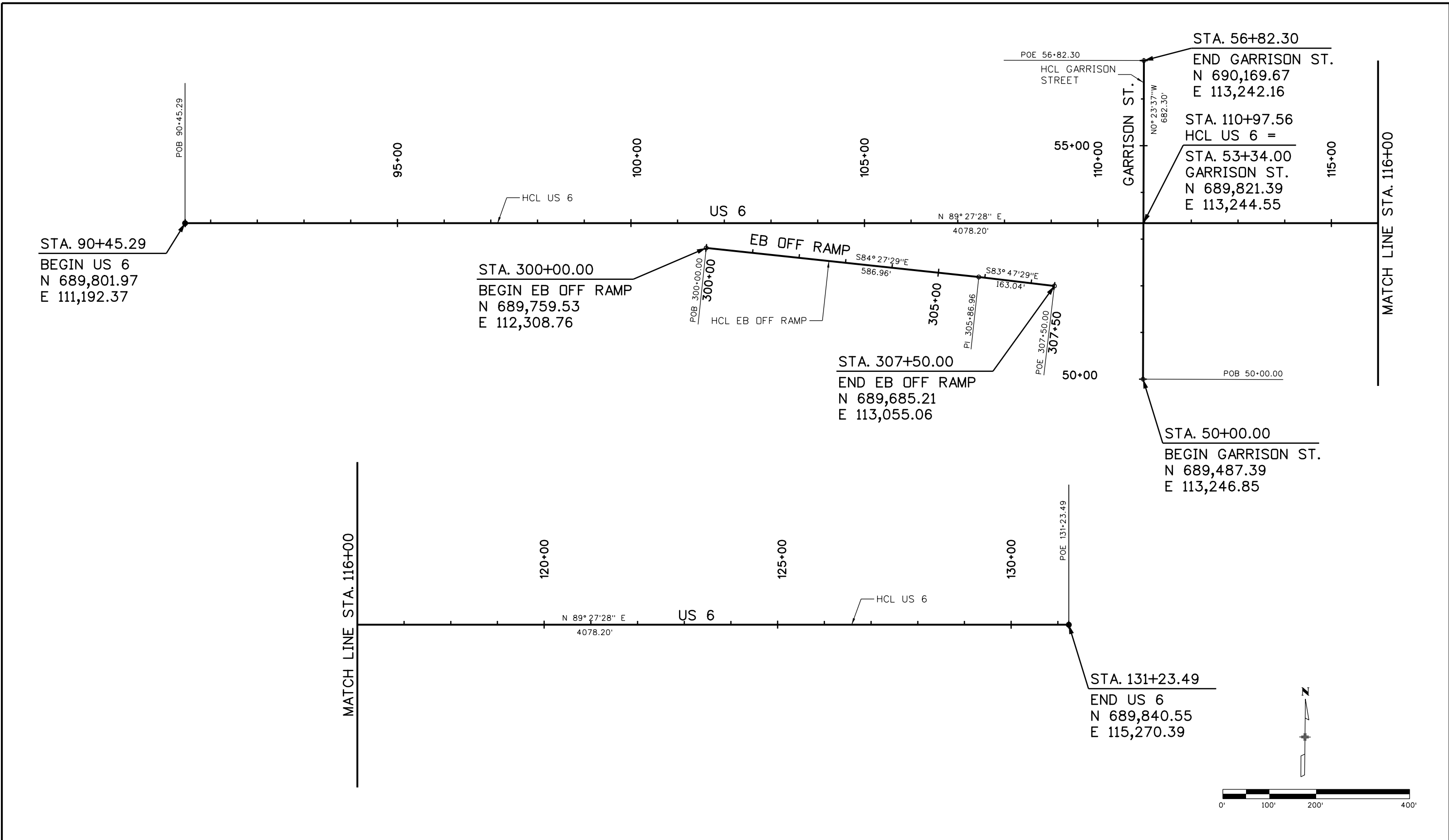
Geodetic and State Plane (NAD 1983-92 Zone 502) coordinates						Project Specific Coordinates			Description
Point	Latitude	Longitude	Convergence Angle	Northing (sft)	Easting (sft)	Point	Northing (sft)	Easting (sft)	
502	39°43'32.20926"N	105°06'34.97860"W	0°14'46"	1689420.098	3109778.599	502	689858.738	110586.021	NE Cor. Sec. 9- 3.25" Alum. Cap in range box "L.P.I. 2003 LS 34986"
503	39°43'58.44198"N	105°06'00.76282"W	0°15'08"	1692086.067	3112440.284	503	692525.399	113248.397	C 1/4 Cor. Sec. 3- 3.25" Alum. Cap in range box "LAKEWOOD 1999 PLS 14112"
504	39°43'32.36014"N	105°06'00.63336"W	0°15'08"	1689447.035	3112462.012	504	689885.682	113270.131	Reference Point- Cut "X" in curb
505	39°43'32.69681"N	105°06'00.63602"W	0°15'08"	1689481.099	3112461.655	505	689919.755	113269.773	Reference Point- Cut "X" in curb
506	39°43'32.36312"N	105°06'01.30770"W	0°15'07"	1689447.104	3112409.323	506	689885.751	113217.428	Reference Point- Cut "X" in curb
507	39°43'32.10201"N	105°06'01.30685"W	0°15'07"	1689420.684	3112409.506	507	689859.324	113217.611	Reference Point- Cut "X" in curb
508	39°43'32.36119"N	105°06'00.96786"W	0°15'08"	1689447.026	3112435.877	508	689885.673	113243.989	N 1/4 Cor. Sec. 10 (cal'c from accessories)
509	39°43'06.25566"N	105°06'00.86495"W	0°15'08"	1686805.594	3112455.541	509	687243.555	113263.658	C 1/4 Cor. Sec. 10- 3.25" Alum. Cap in range box "LAKEWOOD 2000 LS 19591"
510	39°43'06.46835"N	105°06'01.41332"W	0°15'07"	1686826.926	3112412.596	510	687264.893	113220.702	Reference Point- Cut "X" in sidewalk
511	39°43'05.98681"N	105°06'00.43390"W	0°15'08"	1686778.539	3112489.343	511	687216.493	113297.469	Reference Point- Cut "X" in top of light pole base
512	39°43'06.51131"N	105°06'00.42848"W	0°15'08"	1686831.612	3112489.533	512	687269.580	113297.659	Reference Point- Nail & 1" brass washer
513	39°43'06.44460"N	105°06'01.33466"W	0°15'07"	1686824.550	3112418.754	513	687262.516	113226.861	Reference Point- Nail & 1" brass washer
514	39°43'05.99476"N	105°06'01.29483"W	0°15'07"	1686779.047	3112422.066	514	687217.002	113230.174	Reference Point- Nail & 1" brass washer
12	39°43'32.42048"N	105°05'27.29277"W	0°15'27"	1689464.738	3115066.968	12	689903.390	115875.763	NE Cor. Sec. 10- 3" Alum. Cap (from Proj. No. STU 0062-019)

Recovered Property Pins by Conventional Survey, unless noted otherwise

Project Specific Coordinates				Description
Point	Northing (sft)	Easting (sft)	Elevation NAVD'88 (sft)	
701	689911.979	111890.899	5527.04	1" Steel Pipe
702	689923.482	113018.676	5501.67	1.5" Alum. Cap "LANE ENG SRV INC 16837"
703	689938.930	113178.076	5499.14	1.5" Alum. Cap "LANE ENG SRV INC 16???"
704	690100.238	113214.450	5494.55	#5 Rebar
705	689641.875	113079.904	5502.98	#4 Rebar w/ broken Yellow Plastic Cap
* 706	689440.823	113277.305	5504.70	Nail & Brass Washer "37929"
* 707	689719.968	113904.846	5495.32	Yellow Plastic Cap "LS 2568"
708	689949.212	113998.094	5492.35	Yellow Plastic Cap (illegible)
709	689943.040	113998.020	5494.10	Orange Plastic Cap "DENVER ENG PLS 12083"
710	689934.881	114598.322	5486.50	0.5" Square Bar

* Measured by GPS only

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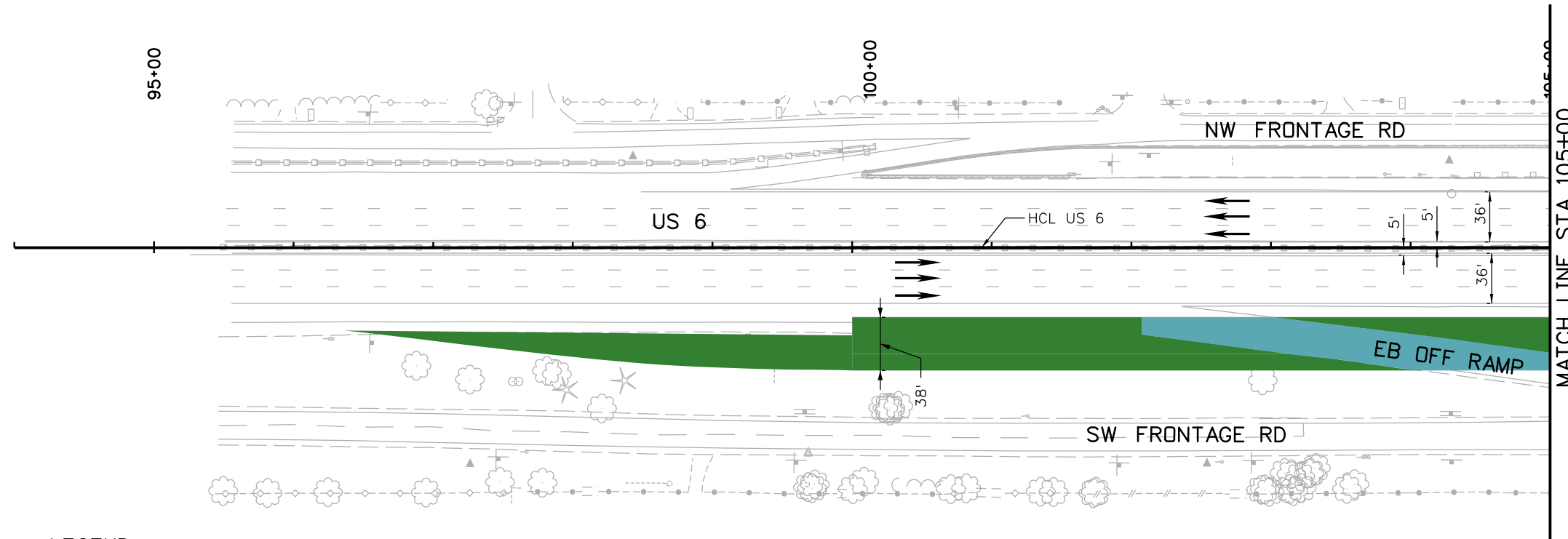
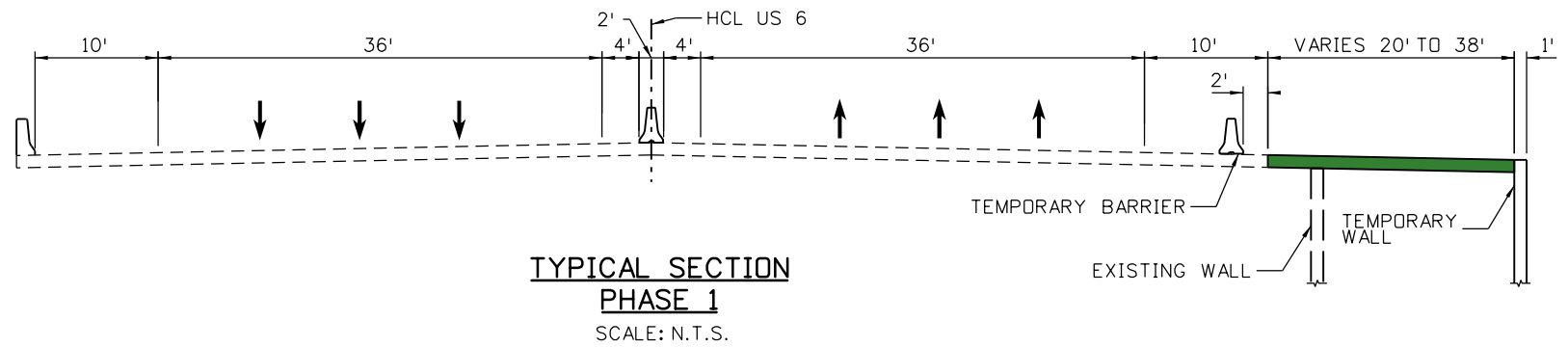
WORK IN PROGRESS

CONSTRUCTION ACTIVITY PHASE 1

- o CONSTRUCT DETOUR ROUTE AND TEMPORARY BRIDGE TO THE SOUTH AND ADJACENT TO US 6.
- o REMOVE EXISTING SHOULDER BARRIER ON SOUTH SIDE.

TRAFFIC ACTIVITY PHASE 1

- o MAINTAIN EASTBOUND AND WESTBOUND TRAVEL WITHIN PROJECT LIMITS ON US 6.
- o MAINTAIN WESTBOUND ON AND OFF RAMP.
- o MAINTAIN EASTBOUND ON AND OFF RAMP UNLESS OTHERWISE NOTED.
- o MAINTAIN PEDESTRIAN ACCESS ALONG GARRISON.
- o WEEKEND CLOSURE OF EASTBOUND US 6 OFF RAMP TO ADJUST TEMPORARY RAMP. ACCESS TO THE RAMP WILL REMAIN OPEN DURING CONSTRUCTION.
- o TEMPORARY CLOSURE OF THE SOUTHEAST FRONTAGE ROAD FROM MEADOWLARK DRIVE TO ESTES STREET.
- o REDUCE THE SOUTHEAST FRONTAGE ROAD TO ONE LANE FROM GARRISON TO MEADOWLARK DRIVE.
- o NIGHT CLOSURE OF GARRISON TO CONSTRUCT TEMPORARY DETOUR BRIDGE.
- o WEEKEND CLOSURE OF SOUTHEAST FRONTAGE ROAD TO CONSTRUCT TEMPORARY WALLS.

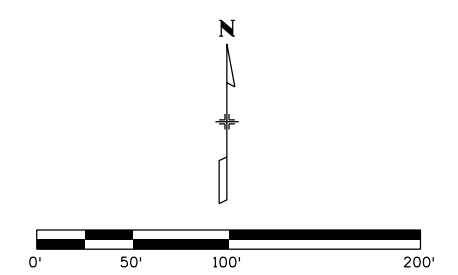


LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)

NOTES

1. SEE BRIDGE CONSTRUCTION PHASING FOR TYPICAL SECTIONS AT THE STRUCTURES.



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Unit Information Unit Leader	

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Date:	Comments	Init.

Colorado Department of Transportation

425 B Corporate Circle
Golden, CO 80401
Phone: 720-497-6954 FAX: 720-497-6951

Region 1 **KPB**

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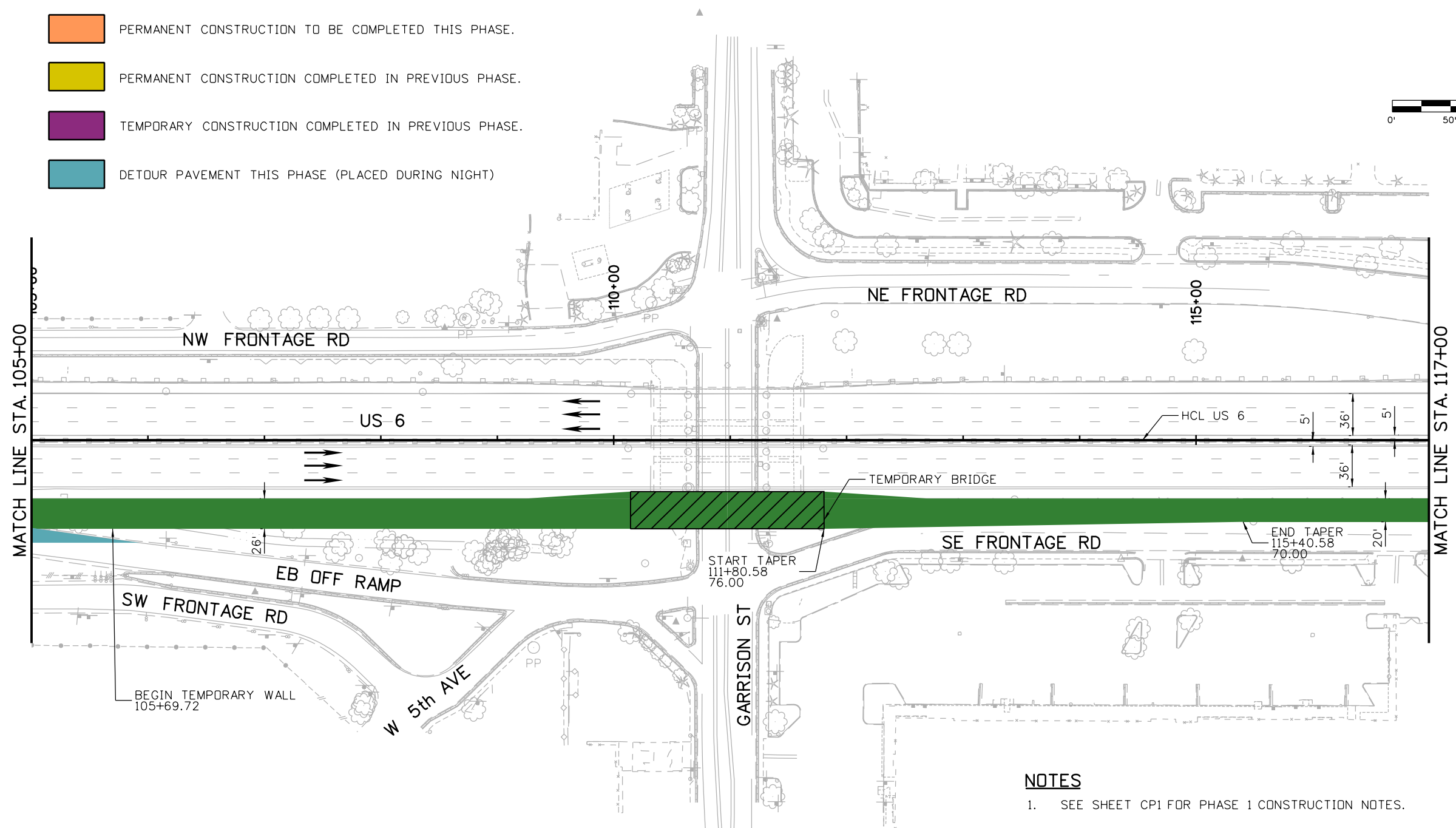
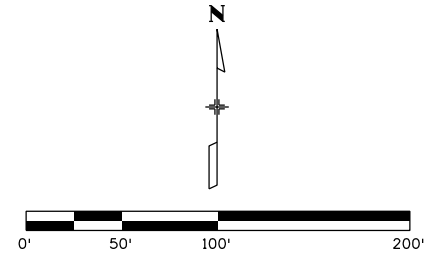
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US 6			
PHASE 1			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	CP1 of 12

Project No./Code
FBR 0063-046
19478
Sheet Number 14

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LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



NOTES

1. SEE SHEET CP1 FOR PHASE 1 CONSTRUCTION NOTES.

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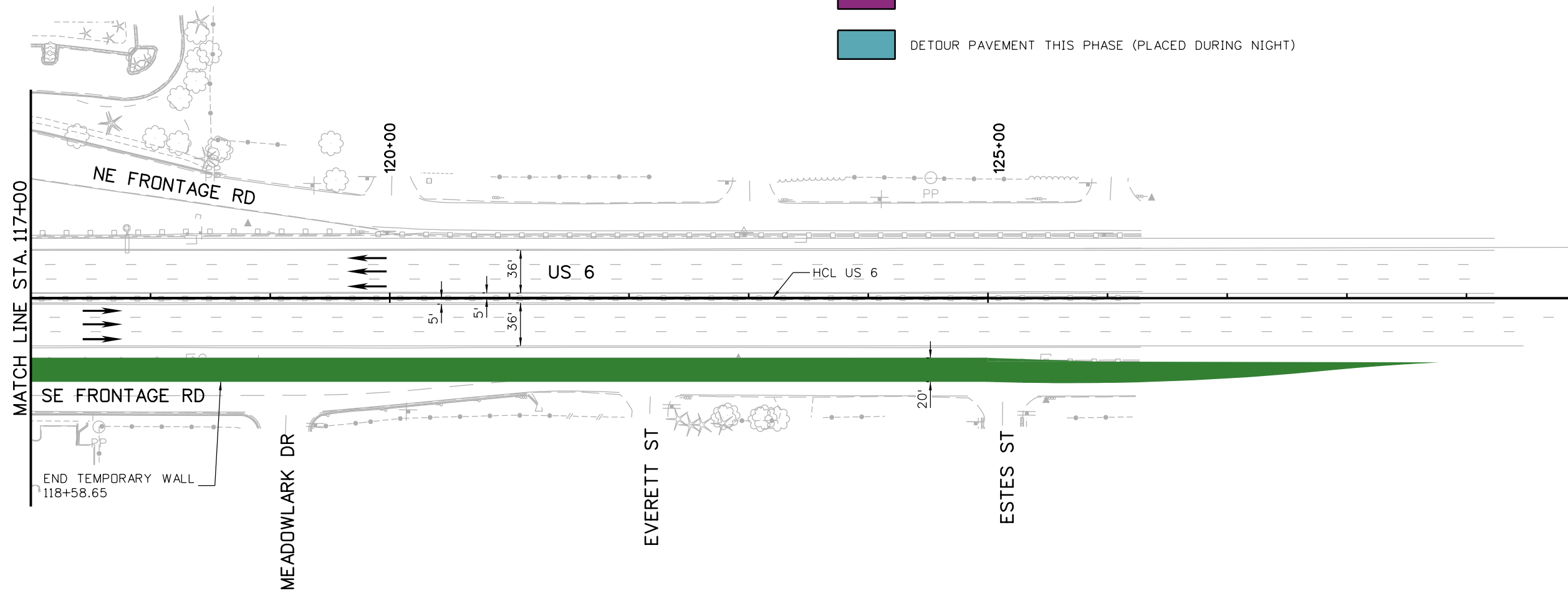
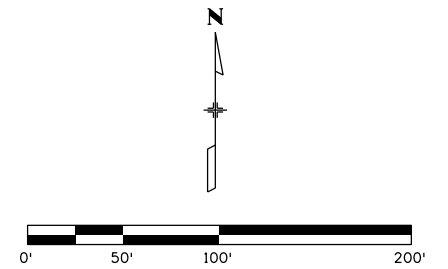
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LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



NOTES

1. SEE SHEET CP1 FOR PHASE 1 CONSTRUCTION NOTES.

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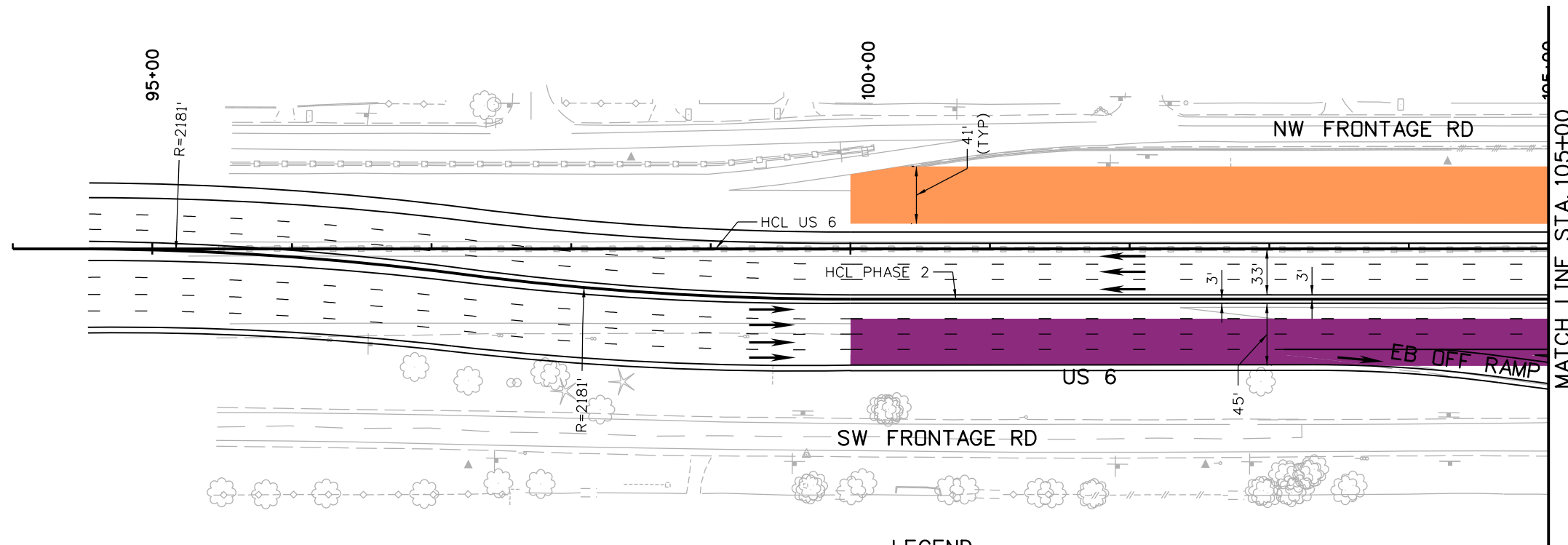
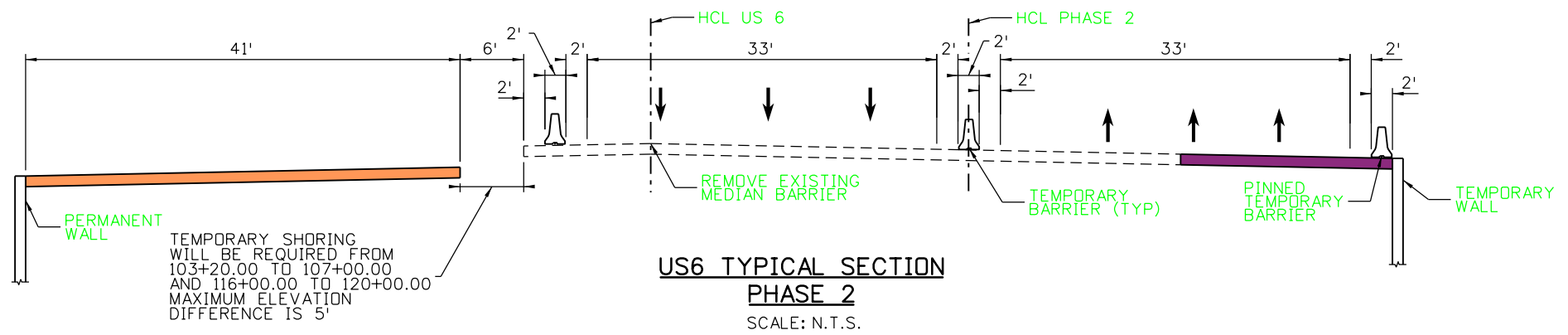
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CONSTRUCTION ACTIVITY PHASE 2

- o NIGHT CLOSURES OF GARRISON TO REMOVE EXISTING BRIDGE AND TO SET GIRDERS
- o CONSTRUCT NORTHERN PORTION OF US 6 AND BRIDGE OVER GARRISON

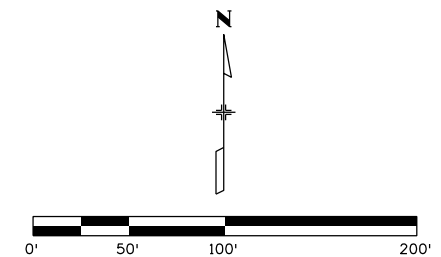
TRAFFIC MAINTENANCE PHASE 2

- o SHIFT TRAFFIC SOUTH ALONG NEWLY CONSTRUCTED DETOUR ROUTE
- o CONTINUE TEMPORARY DETOUR OF EASTBOUND US 6 OFF RAMP
- o CONTINUE TEMPORARY CLOSURE OF THE SOUTHEAST FRONTAGE ROAD FROM MEADOWLARK DRIVE TO ESTES STREET
- o MAINTAIN ONE LANE AT THE SOUTHEAST FRONTAGE ROAD FROM GARRISON TO MEADOWLARK DRIVE
- o REDUCE DETOUR SPEED LIMIT TO 55 MPH
- o MAINTAIN PEDESTRIAN ACCESS ALONG GARRISON
- o REMOVE EXISTING MEDIAN BARRIER AND SHOULDER BARRIER ON THE NORTH
- o REDUCE NE FRONTAGE ROAD TO ONE LANE



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



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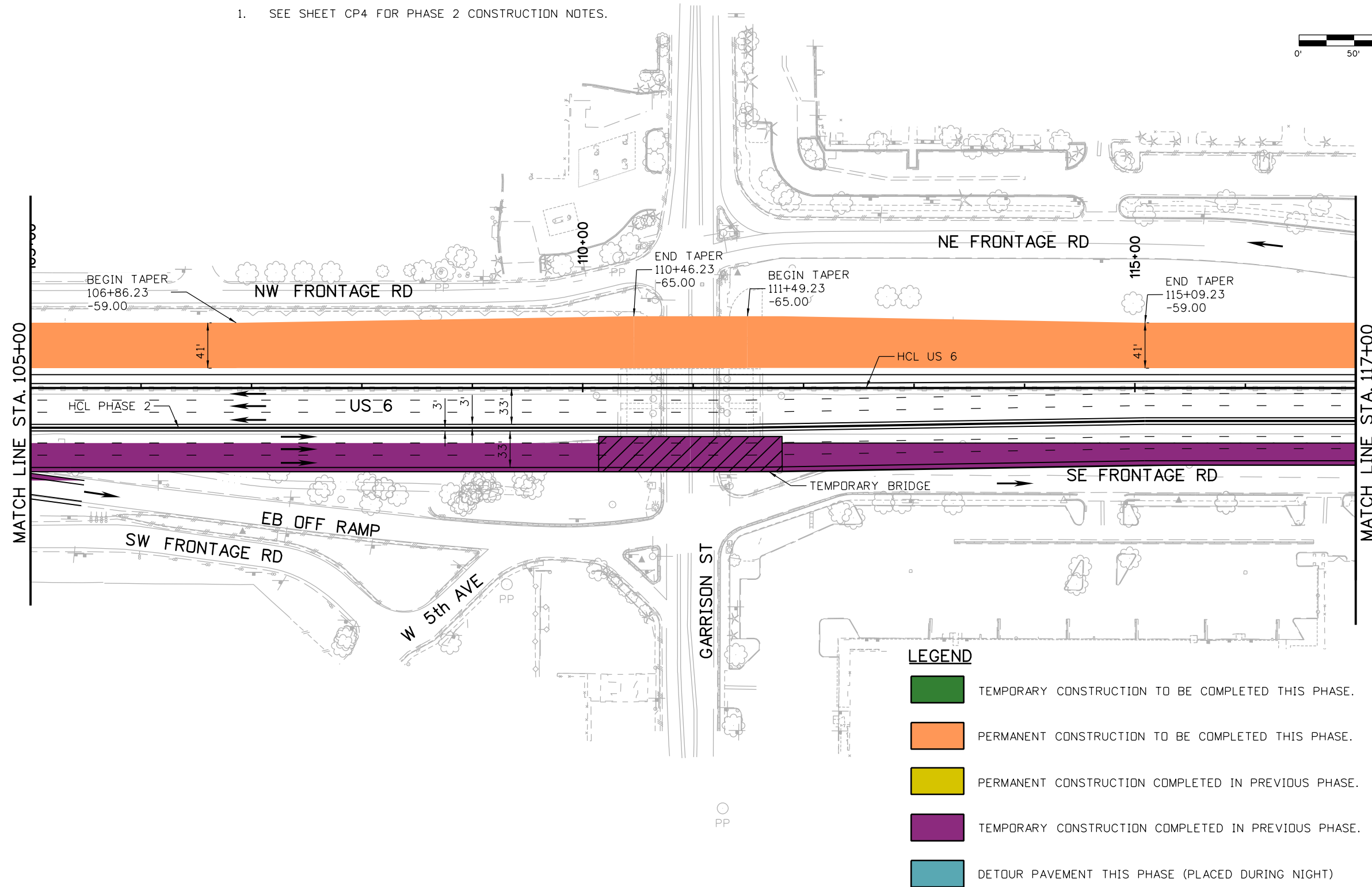
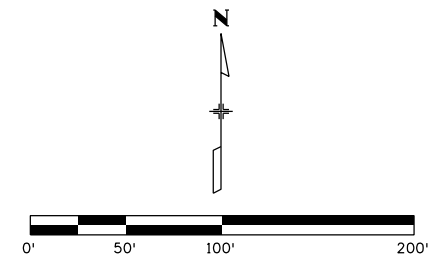
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Project No./Code	FBR 0063-046
	19478
Sheet Number	17

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NOTES

1. SEE SHEET CP4 FOR PHASE 2 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
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- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)

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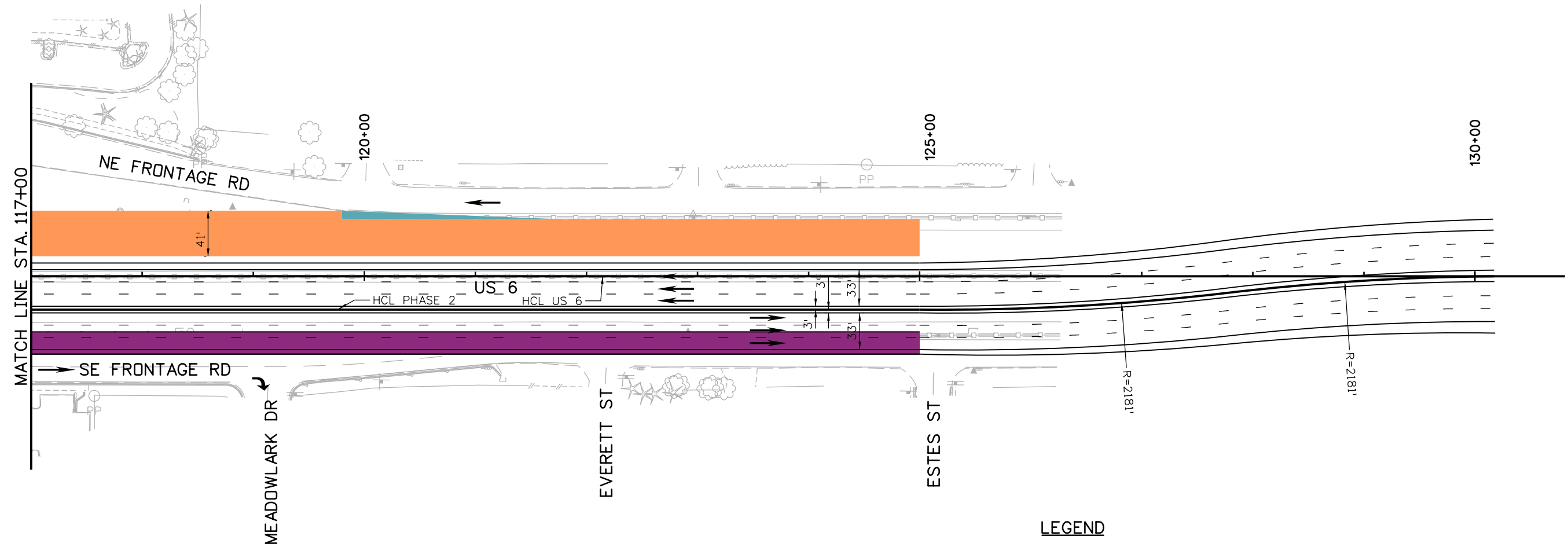
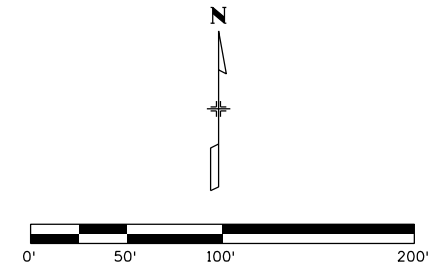
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Project No./Code
FBR 0063-046
19478
Sheet Number 18

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NOTES

1. SEE SHEET CP4 FOR PHASE 2 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
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Project No./Code	FBR 0063-046
	19478
Sheet Number	19

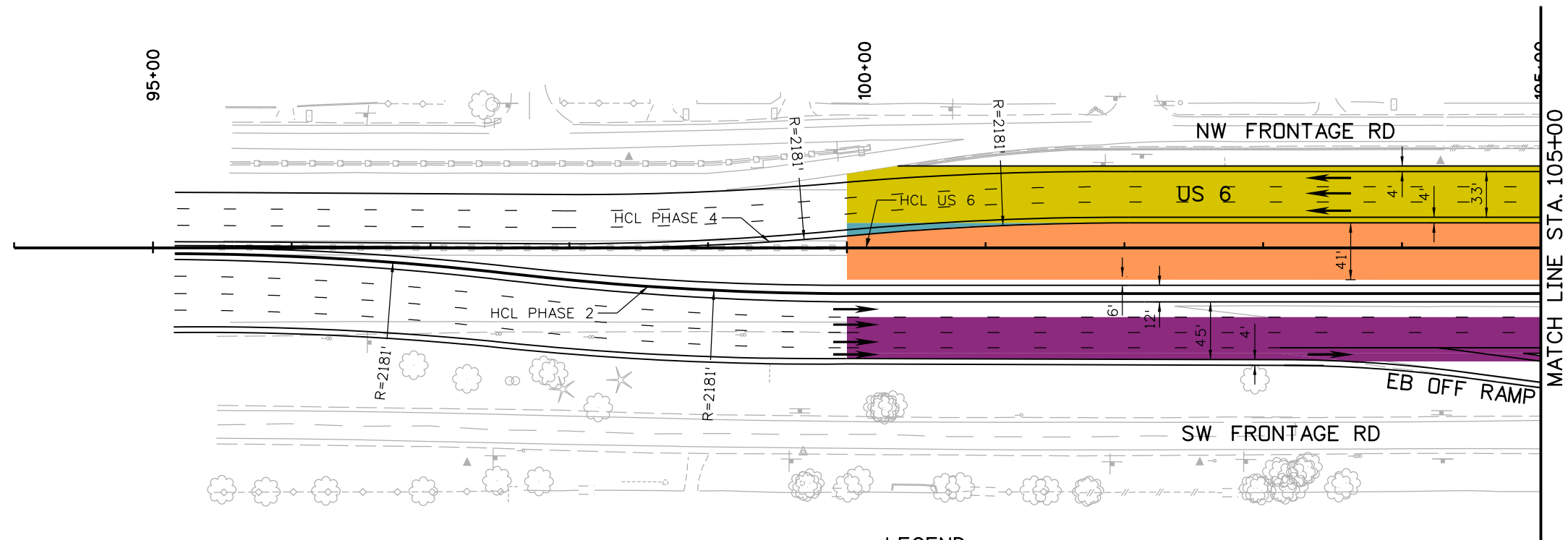
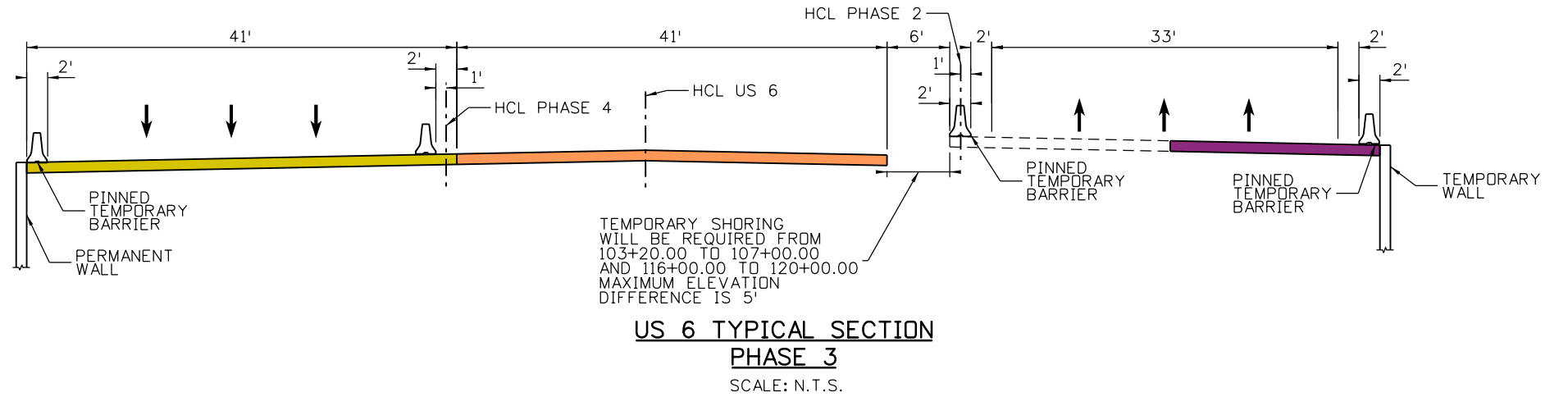
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CONSTRUCTION ACTIVITY PHASE 3

- o NIGHT CLOSURES OF GARRISON TO REMOVE EXISTING BRIDGE AND TO SET GIRDERS
- o CONSTRUCT CENTRAL PORTION OF US 6 AND BRIDGE OVER GARRISON

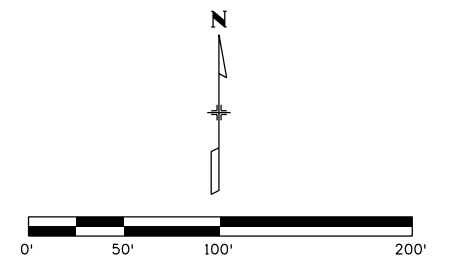
TRAFFIC MAINTENANCE PHASE 3

- o SHIFT WESTBOUND TRAFFIC NORTH ALONG NEWLY CONSTRUCTED US 6
- o CONTINUE TEMPORARY DETOUR OF EASTBOUND US 6 OFF RAMP
- o TEMPORARY CLOSURE OF THE SOUTHEAST FRONTAGE ROAD FROM MEADOWLARK DRIVE TO ESTES STREET
- o MAINTAIN ONE LANE AT THE SOUTHEAST FRONTAGE ROAD FROM GARRISON TO MEADOWLARK DRIVE
- o REDUCE DETOUR SPEED LIMIT TO 55 MPH
- o MAINTAIN PEDESTRIAN ACCESS ALONG GARRISON
- o REDUCE NORTHEAST FRONTAGE ROAD TO 1 LANE



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
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- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



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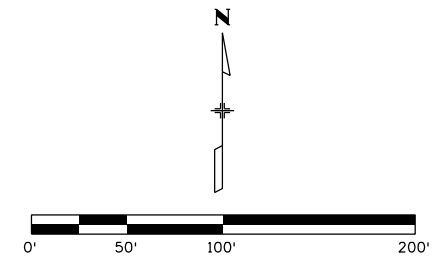
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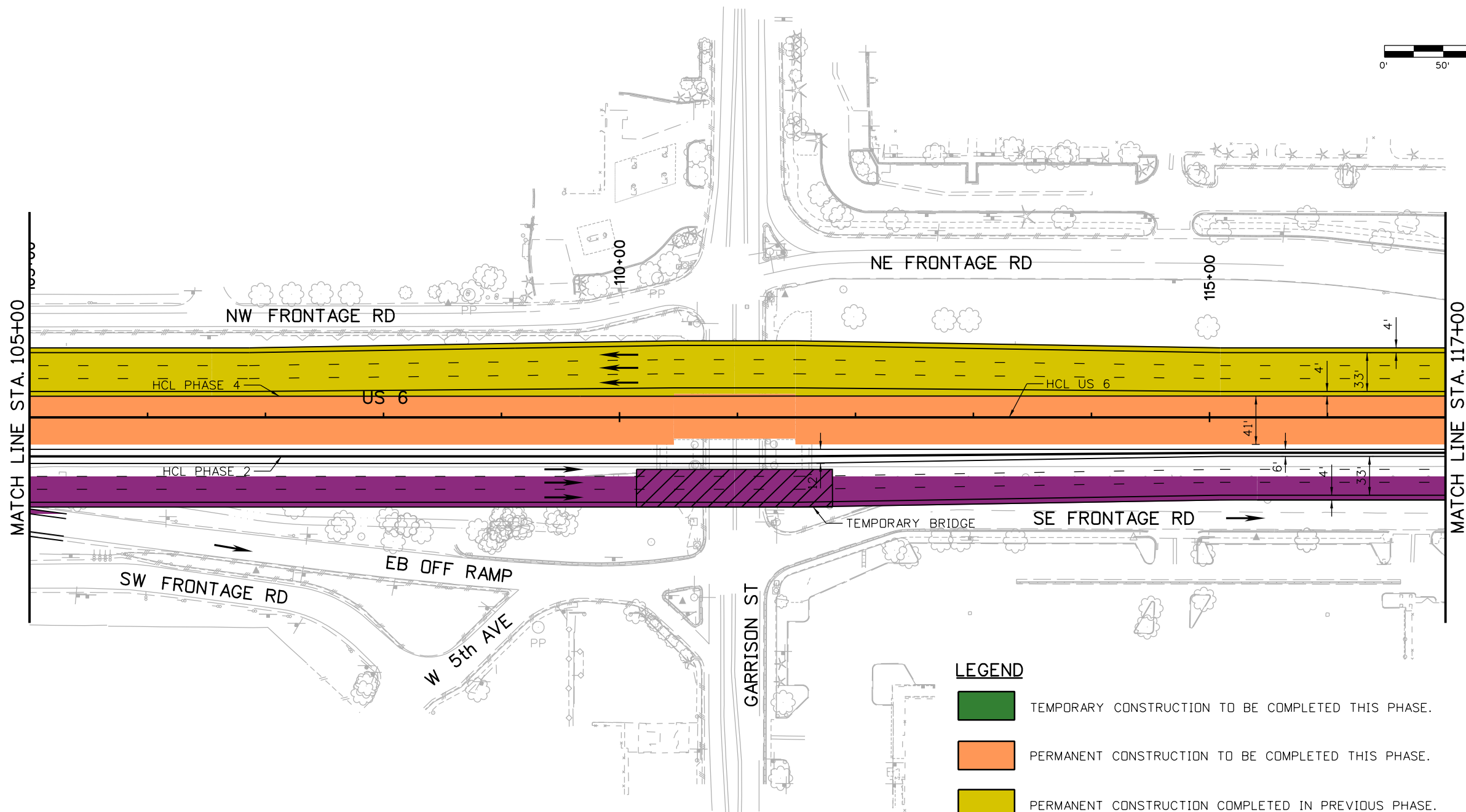
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NOTES

- SEE SHEET CP7 FOR PHASE 3 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)

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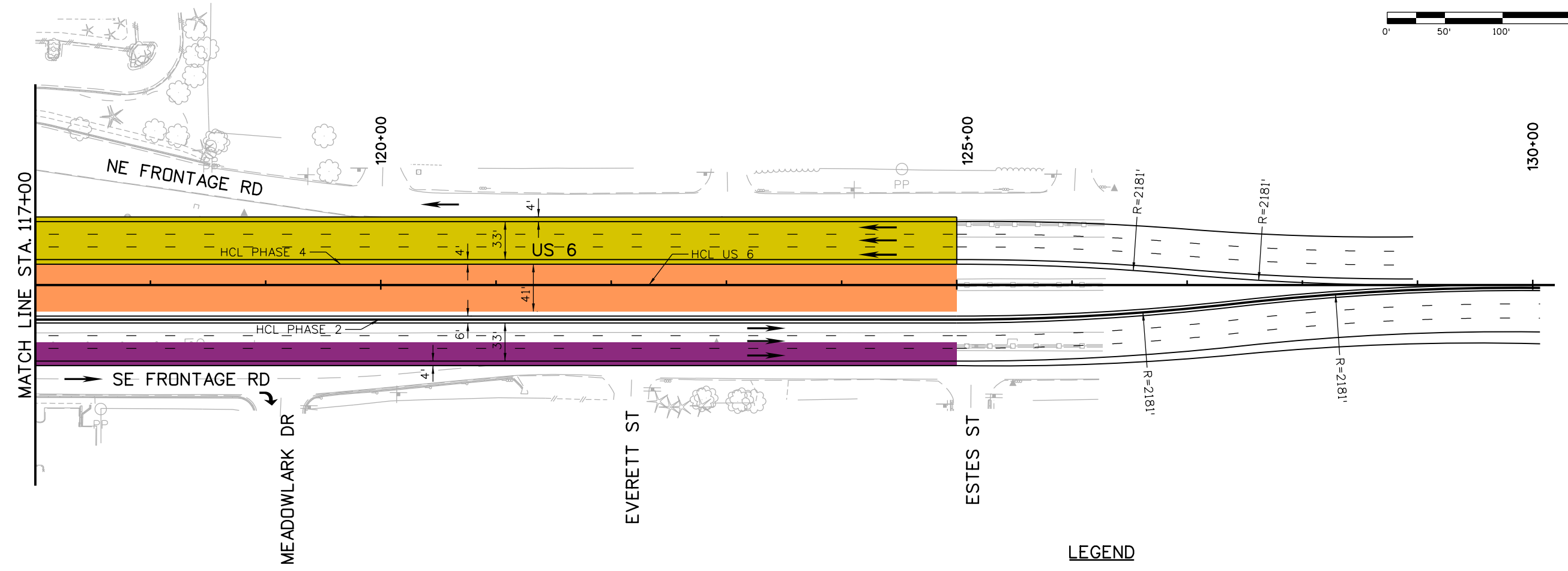
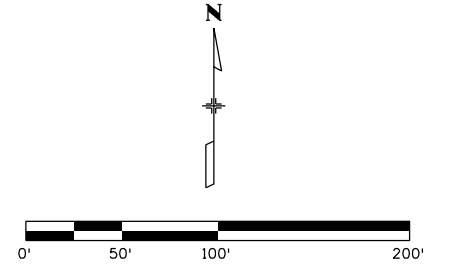
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Project No./Code	FBR 0063-046
	19478
Sheet Number	21

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NOTES

- SEE SHEET CP7 FOR PHASE 3 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
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- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)

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Project No./Code	FBR 0063-046
	19478
Sheet Number	22

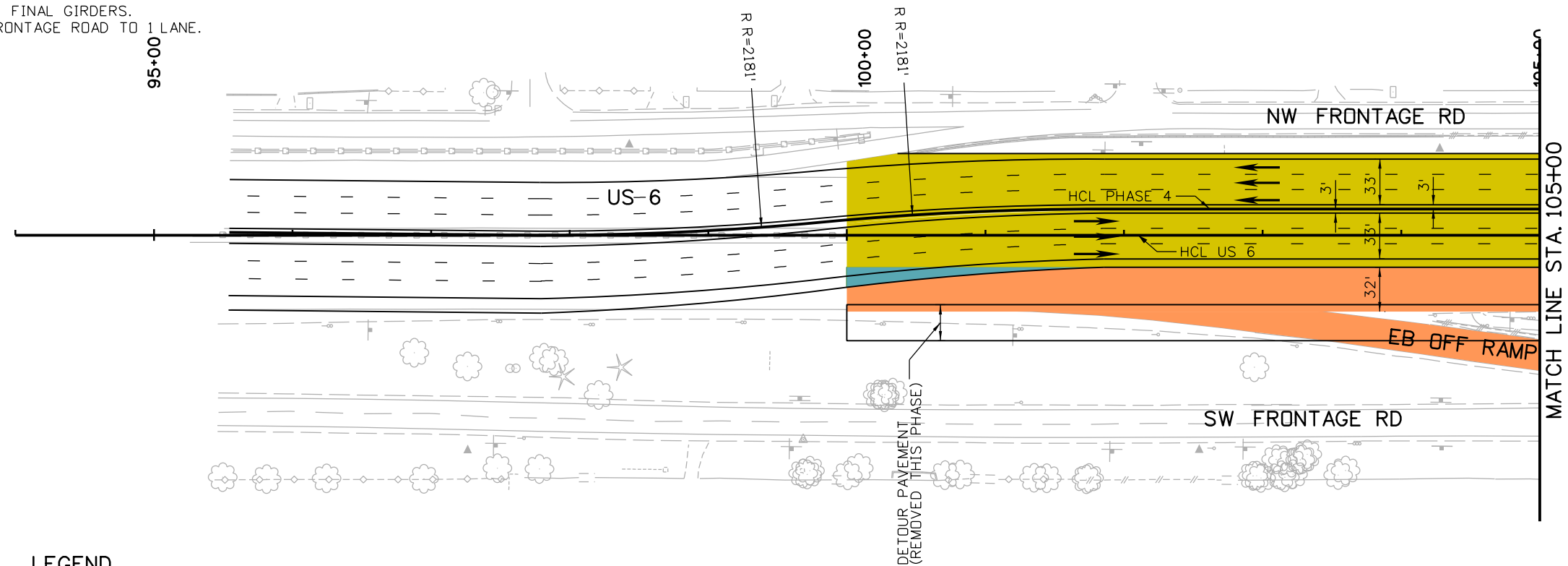
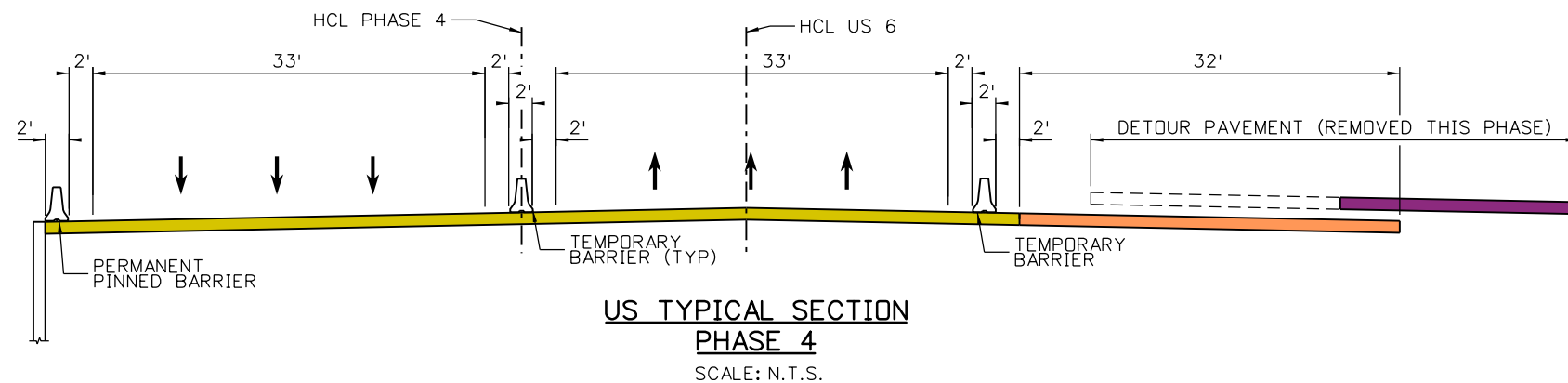
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CONSTRUCTION ACTIVITY PHASE 4

- o CONSTRUCT GARRISON WIDENING. MAINTAIN PEDESTRIAN ACCESS ALONG GARRISON.
- o CONSTRUCT EASTBOUND OFF RAMP. FULL CLOSURE IS REQUIRED DURING CONSTRUCTION.
- o CONSTRUCT SOUTHERN PORTION OF US 6 AND BRIDGE OVER GARRISON.
- o CONSTRUCT MEDIAN BARRIER AFTER PHASE 4 CONSTRUCTION IS COMPLETE.
- o REMOVE TEMPORARY BRIDGE AND DETOUR PAVEMENT.
- o REMOVE TEMPORARY PAVEMENT ALONG NORTHEAST FRONTAGE ROAD. REPLACE BARRIER ALONG THIS SEGMENT.
- o EXPAND THE SOUTHEAST FRONTAGE ROAD BACK TO 2 LANES. REPLACE ROADWAY BACK TO EXISTING CONDITION.

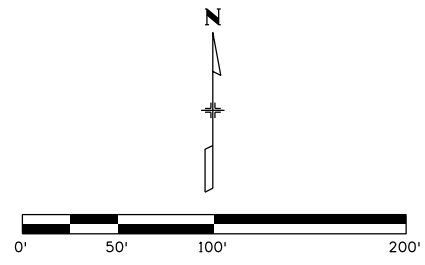
TRAFFIC MAINTENANCE PHASE 4

- o SHIFT WESTBOUND AND EASTBOUND TRAFFIC NORTH ALONG NEWLY CONSTRUCTED US 6.
- o TEMPORARY CLOSURE OF EASTBOUND US 6 OFF RAMP DURING RAMP CONSTRUCTION.
- o REOPEN THE SOUTHEAST FRONTAGE ROAD FROM MEADOWLARK DRIVE TO ESTES STREET.
- o NIGHT CLOSURE OF GARRISON TO REMOVE FINAL PORTION OF EXISTING BRIDGE AND TO SET FINAL GIRDERS.
- o KEEP NORTHEAST FRONTAGE ROAD TO 1 LANE.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



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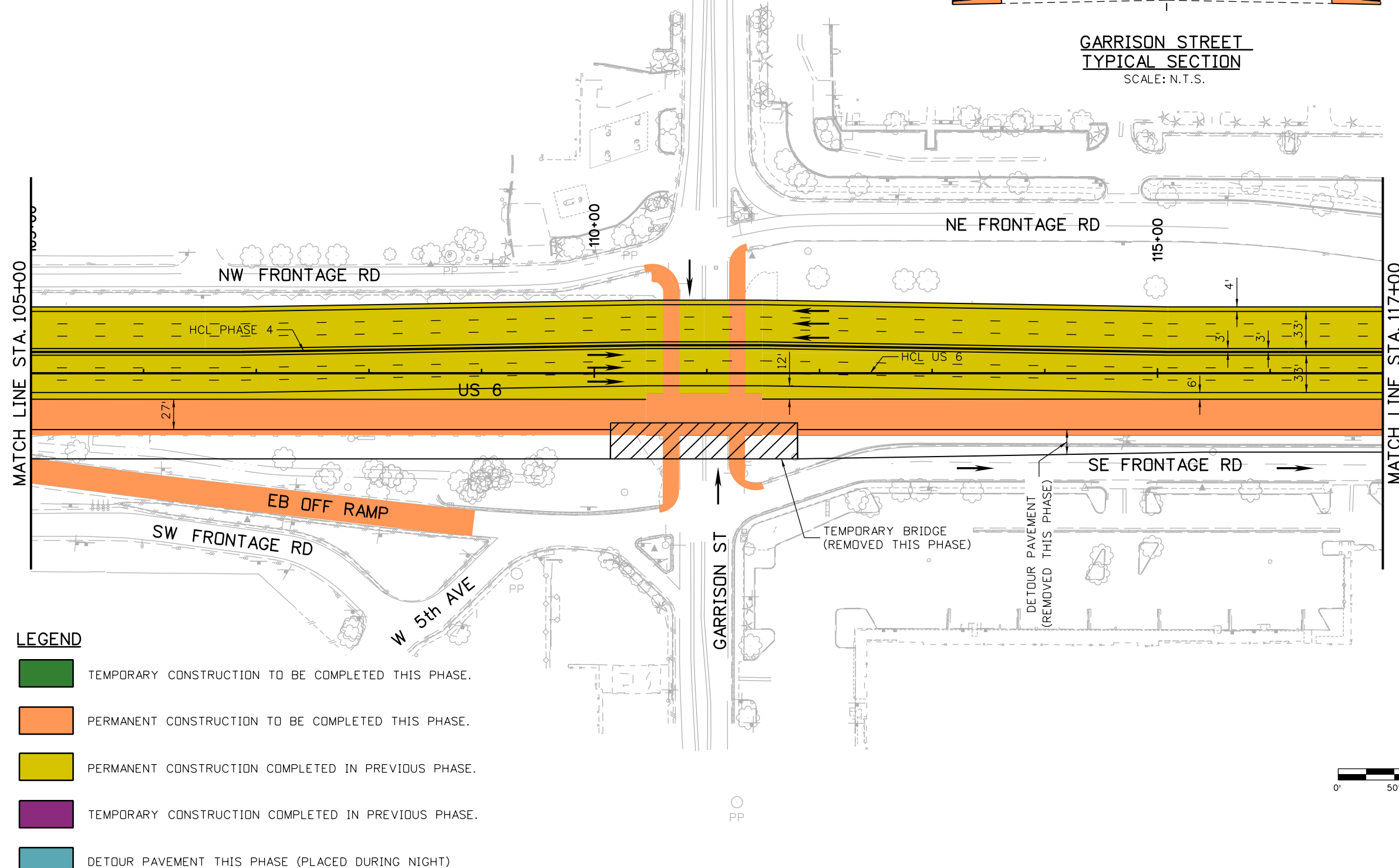
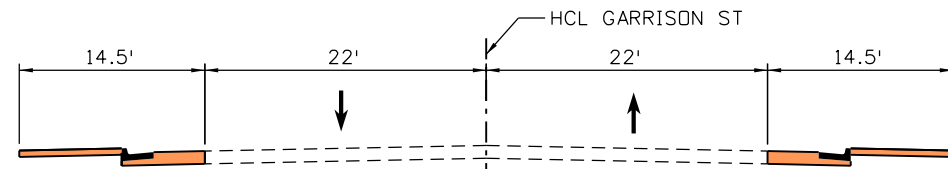
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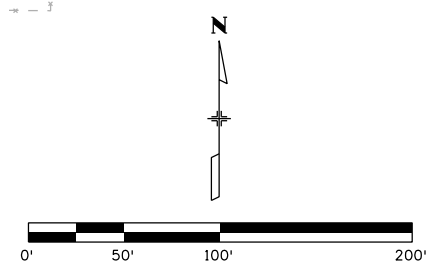
NOTES

1. SEE SHEET CP10 FOR PHASE 4 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
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- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)



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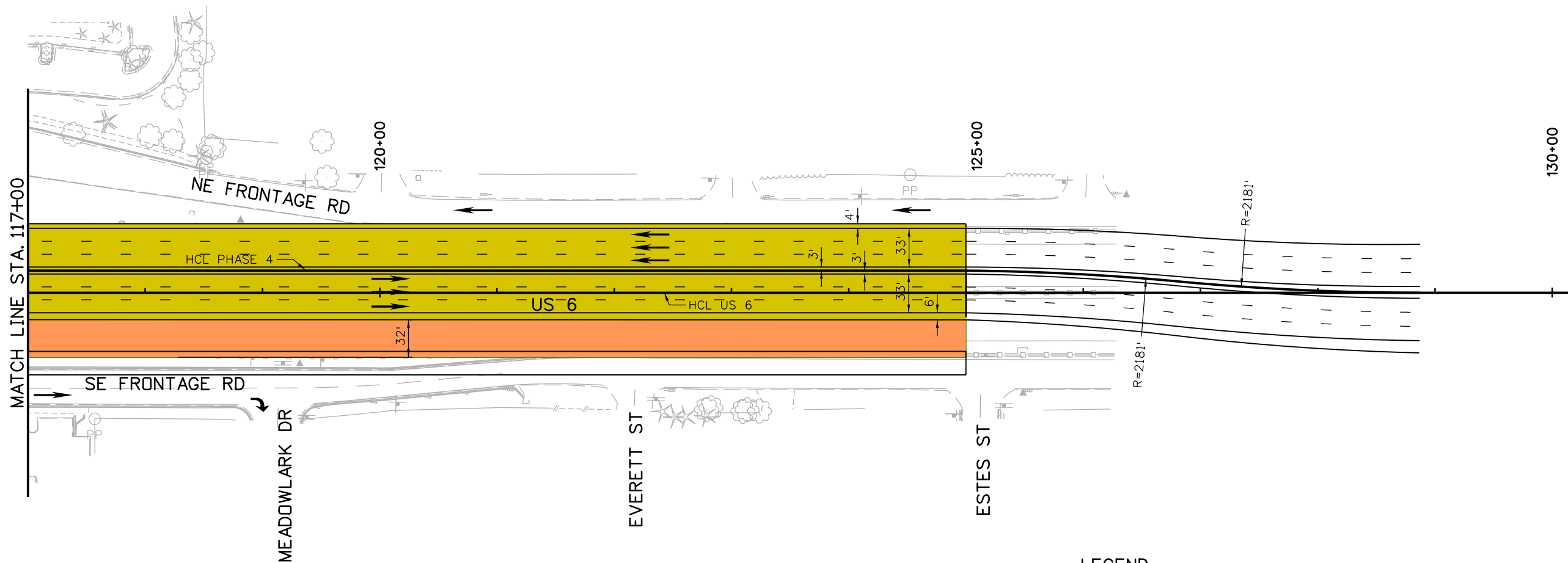
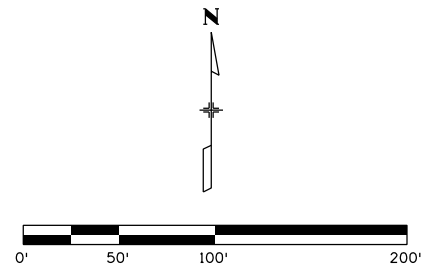
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Project No./Code	FBR 0063-046
	19478
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NOTES

1. SEE SHEET CP10 FOR PHASE 4 CONSTRUCTION NOTES.



LEGEND

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DEPARTMENT OF TRANSPORTATION

Region 1 KP B





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No Revisions:
Revised:
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CONSTRUCTION PHASING PLAN			
US 6			
PHASE 4			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	CP12 of 12

Project No./Code	FBR 0063-046
	19478
Sheet Number	25

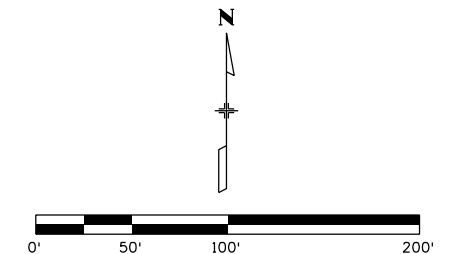
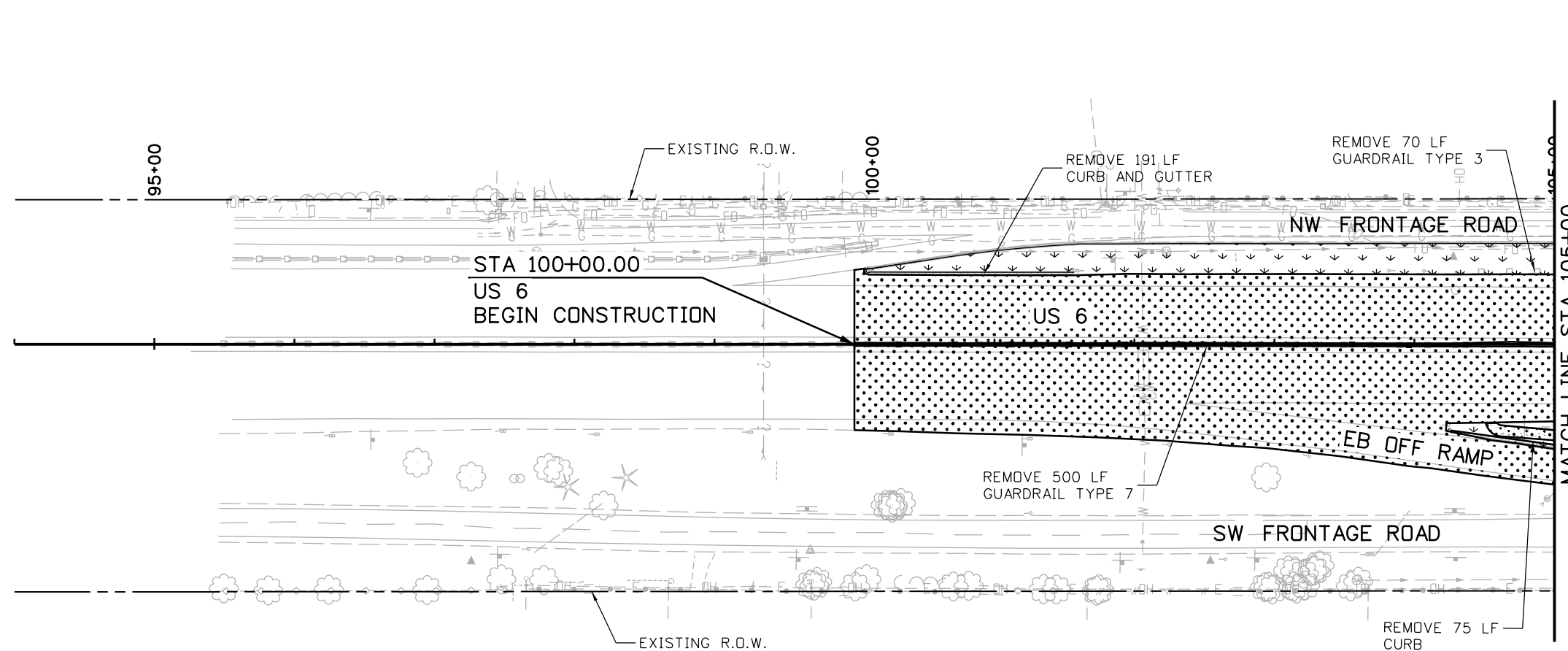
POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

LEGEND:

-  CLEARING AND GRUBBING
-  REMOVAL OF SIDEWALK AND CONCRETE CURB RAMP
-  REMOVAL OF ASPHALT MAT
-  REMOVAL OF CONCRETE PAVEMENT

NOTES:

1. SEE TRAFFIC SIGNAL PLANS FOR REMOVAL OF TRAFFIC SIGNALS.
2. SEE SIGNING AND STRIPING PLANS FOR REMOVAL OF SIGNS.
3. REMOVAL AND ABANDONMENT OF STORM AND SANITARY SEWER STRUCTURES TO BE COORDINATED WITH CONSTRUCTION PHASING OPERATIONS.
4. SEE STRUCTURE PLANS FOR BRIDGE AND WALL REMOVALS.

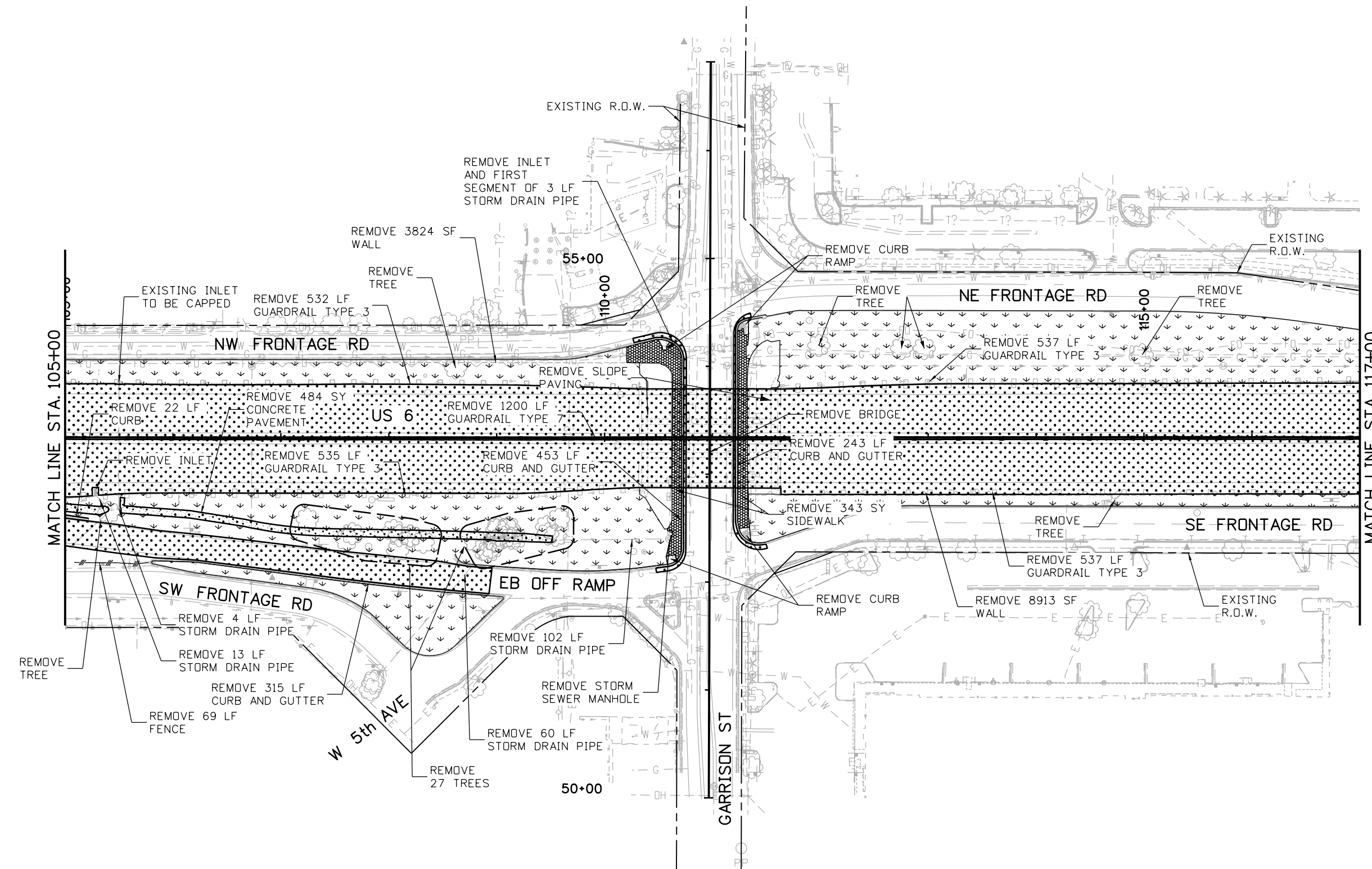


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Unit Information Unit Leader			Void:	Designer: CH Structure Numbers	26
	0000			Detailer: CS	
				Sheet Subset: REMOVAL	Subset Sheets: RM1 of 3
 Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1			KPB		

WORK IN PROGRESS

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NOTE:
1. SEE SHEET RM1 OF 3 FOR NOTES AND LEGEND.

Print Date: 7/2/2014
File Name: 19478-ROADPL-DMUS6-02.dgn
Horiz. Scale: 1:100 Vert. Scale:
Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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Golden, CO 80401
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Region 1 **KPB**

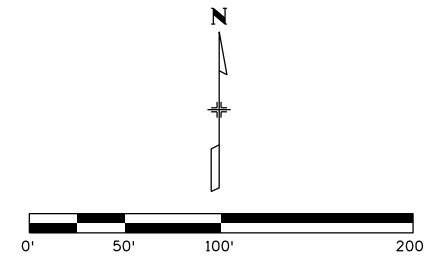
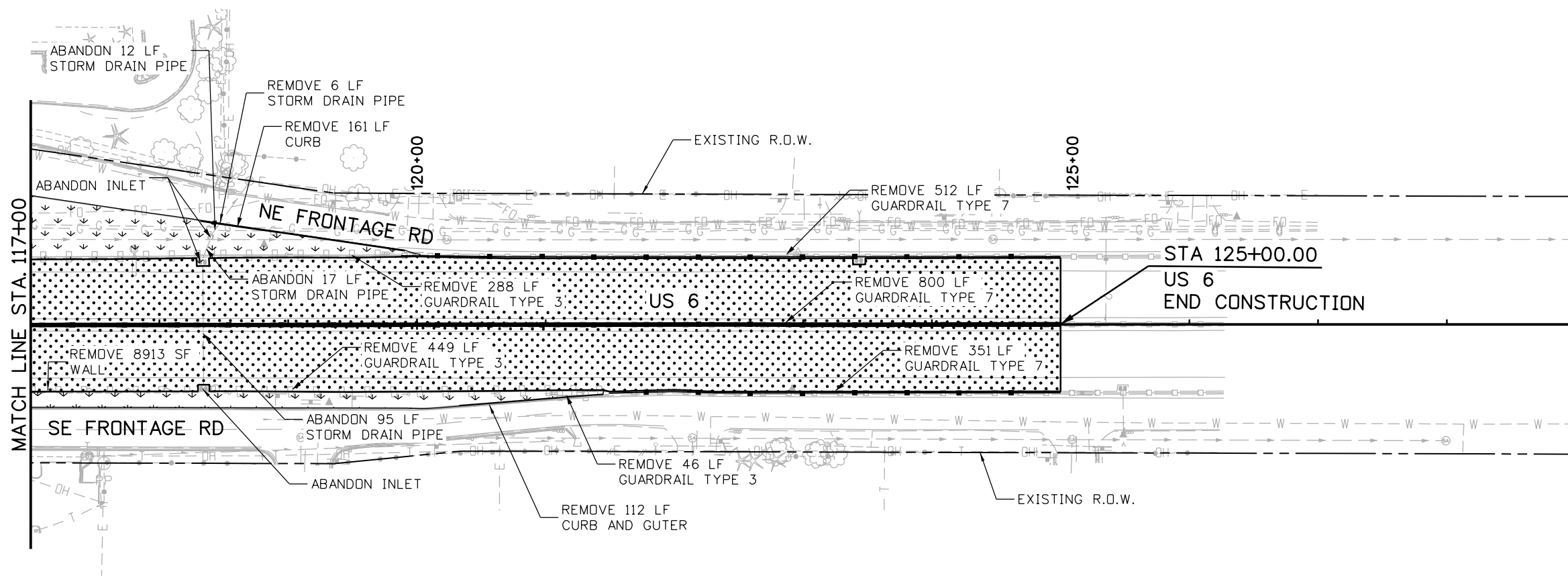
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No Revisions:
Revised:
Void:

REMOVAL PLAN		
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STA 105+00 TO STA 117+00		
Designer:	CH	Structure
Detailer:	CS	Numbers
Sheet Subset: REMOVAL	Subset Sheets: RM2 of 3	

Project No./Code
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19478
Sheet Number 27

WORK IN PROGRESS

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NOTE:

- SEE SHEET RM1 OF 3 FOR NOTES AND LEGEND.

Print Date: 7/2/2014
File Name: 19478-ROADPL-DMUS6-03.dgn
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Sheet Revisions		
Date:	Comments	Init.

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Golden, CO 80401
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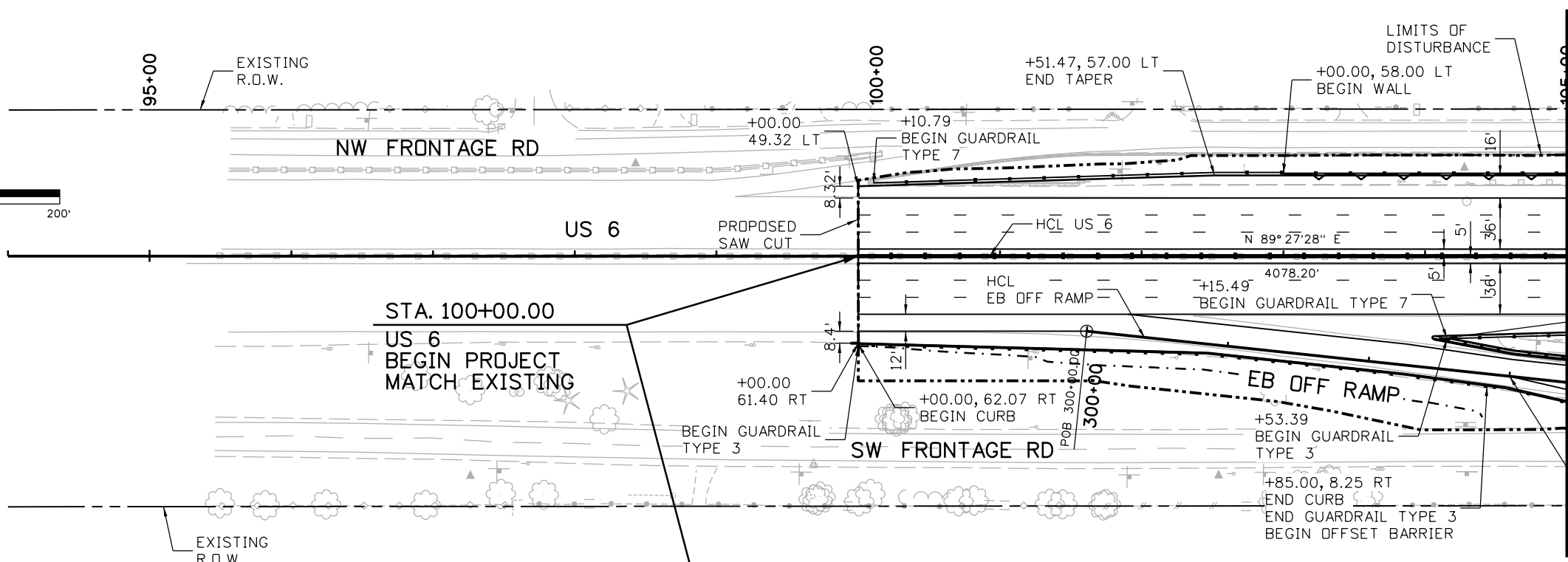
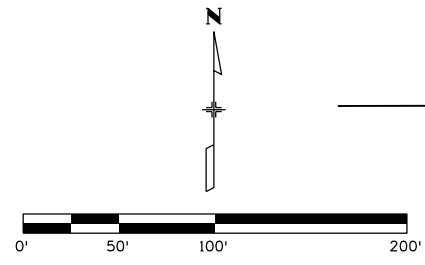
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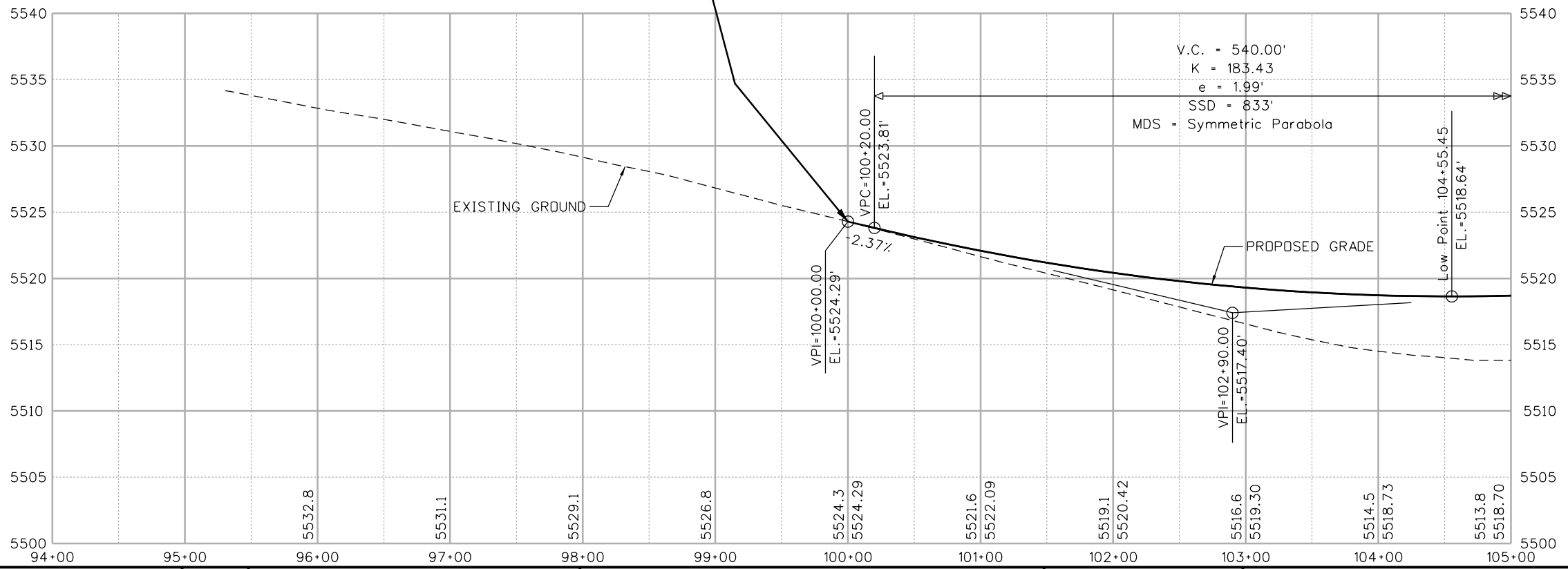
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US 6		
STA 117+00 TO STA 125+00		
Designer:	CH	Structure
Detailer:	CS	Numbers
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Project No./Code
?
19478
Sheet Number 28

WORK IN PROGRESS



- NOTES**
- SEE SHEET RD5 FOR EB OFF RAMP PROFILE.
 - SEE SHEET RD6 FOR EB OFF RAMP GORE DIMENSIONS AND DETAILS.
 - SEE RETAINING WALL LAYOUT FOR WALL DETAILS.



kristi.gempferline 4:51:48 PM P:\1404429D - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\PC Code\Design\Drawings\19478-ROADPLPR-01.dgn

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Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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Golden, CO 80401
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Region 1 KP8

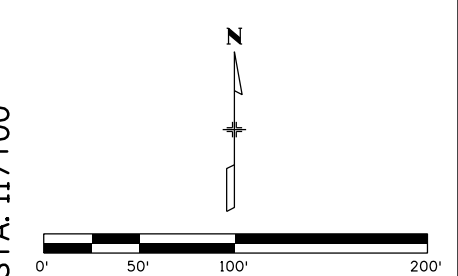
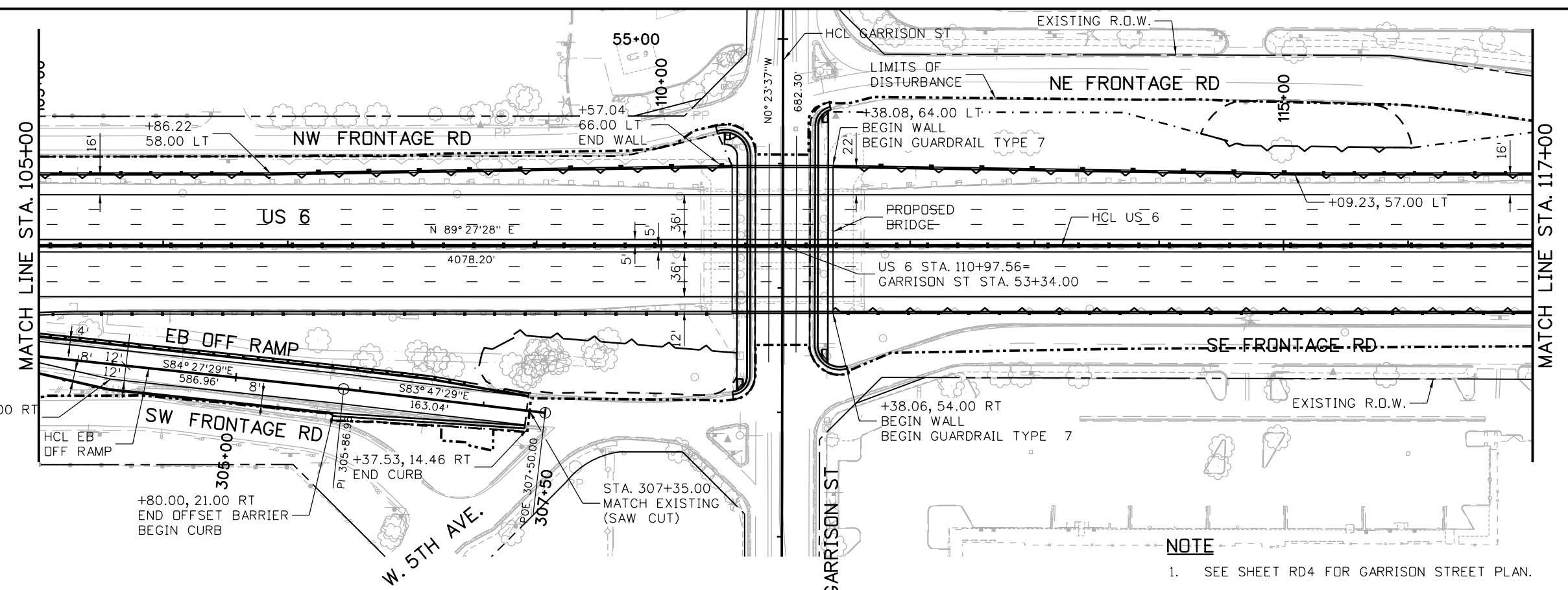
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ROADWAY PLAN AND PROFILE US 6 STA. 94+00 TO STA. 105+00			
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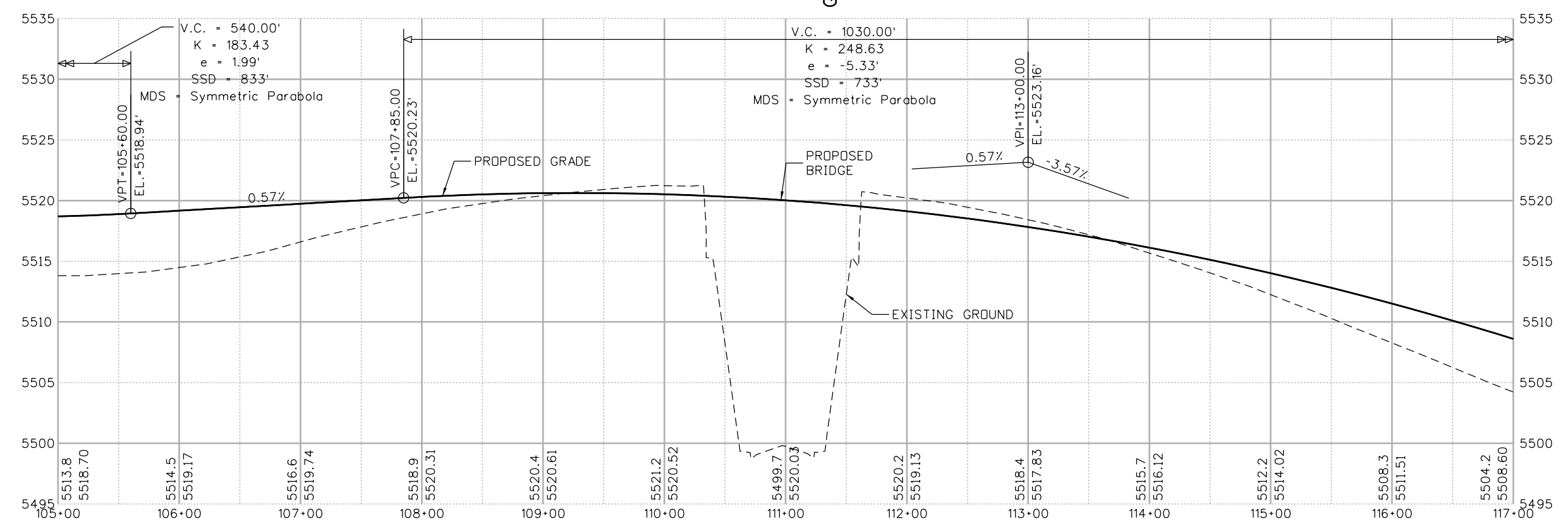
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	19478
Sheet Number	29

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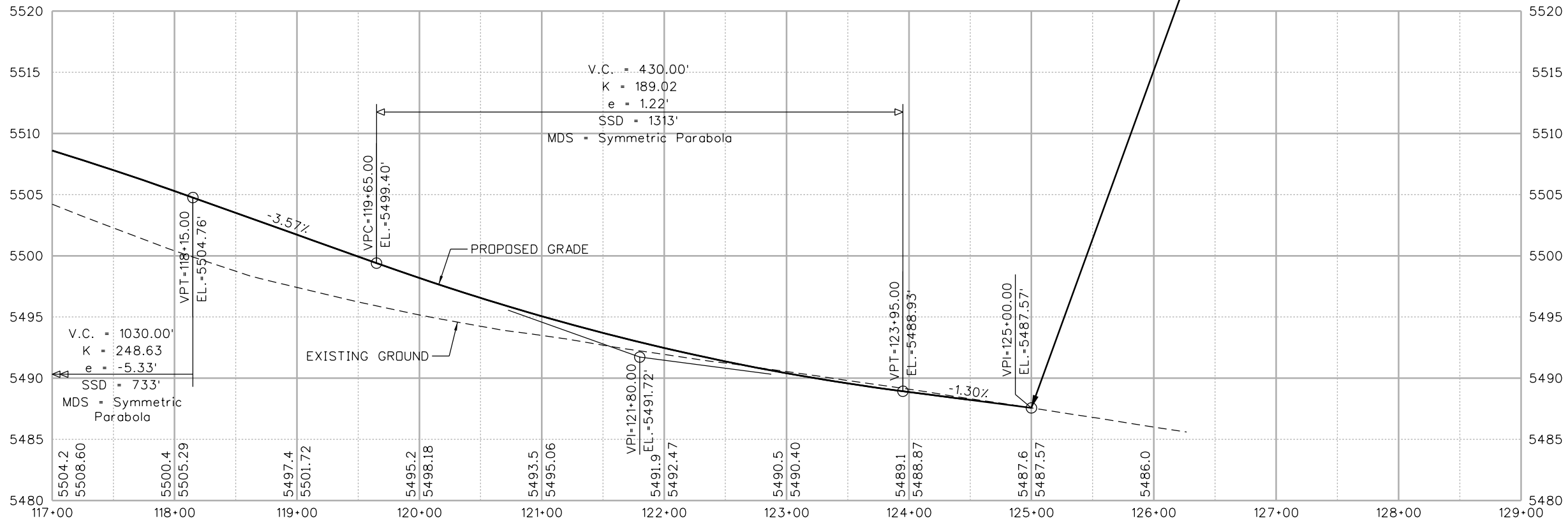
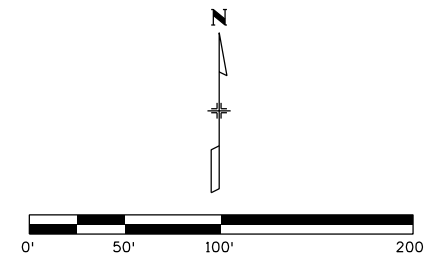
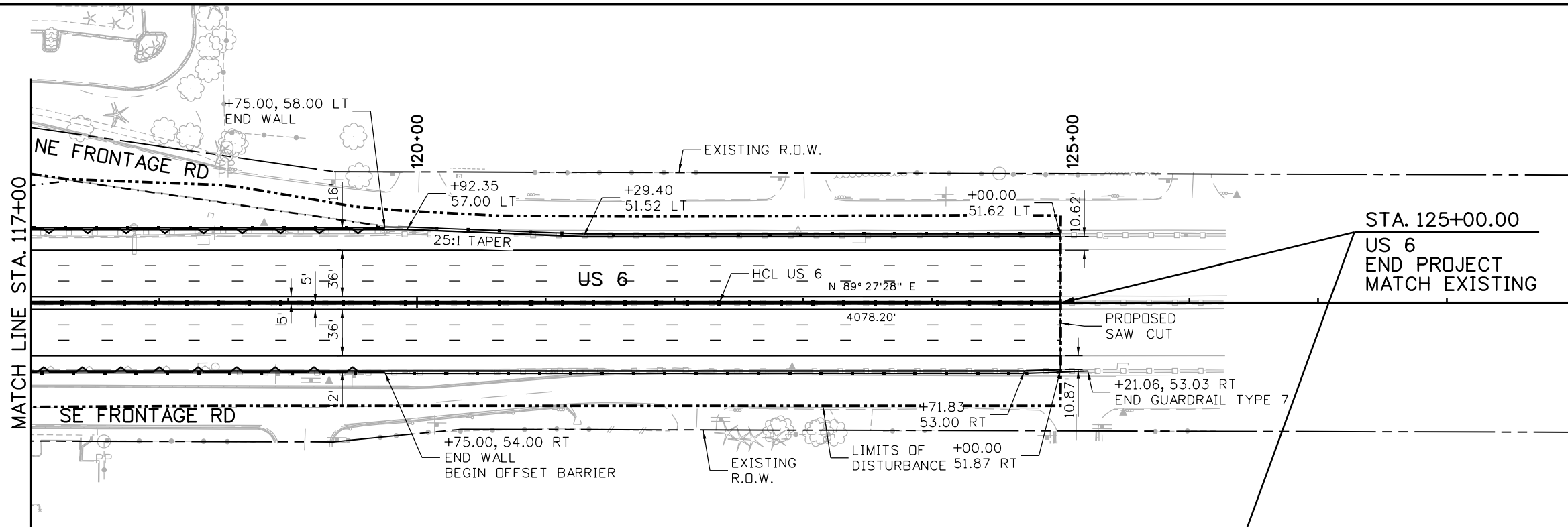
NOTE
 1. SEE SHEET RD4 FOR GARRISON STREET PLAN.



Print Date: 7/2/2014		Sheet Revisions			Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	ROADWAY PLAN AND PROFILE US 6 STA. 105+00 TO STA. 117+00			Project No./Code FBR 0063-046 19478 Sheet Number 30
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Horiz. Scale: 1:100		Vert. Scale: _					Detailer: CS	Numbers		
Unit Information _		Unit Leader _					Sheet Subset: ROADWAY	Subset Sheets: RD2 of 6		

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Unit Information _	Unit Leader _

Sheet Revisions		
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425 B Corporate Circle
 Golden, CO 80401
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Region 1 KP8

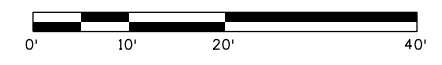
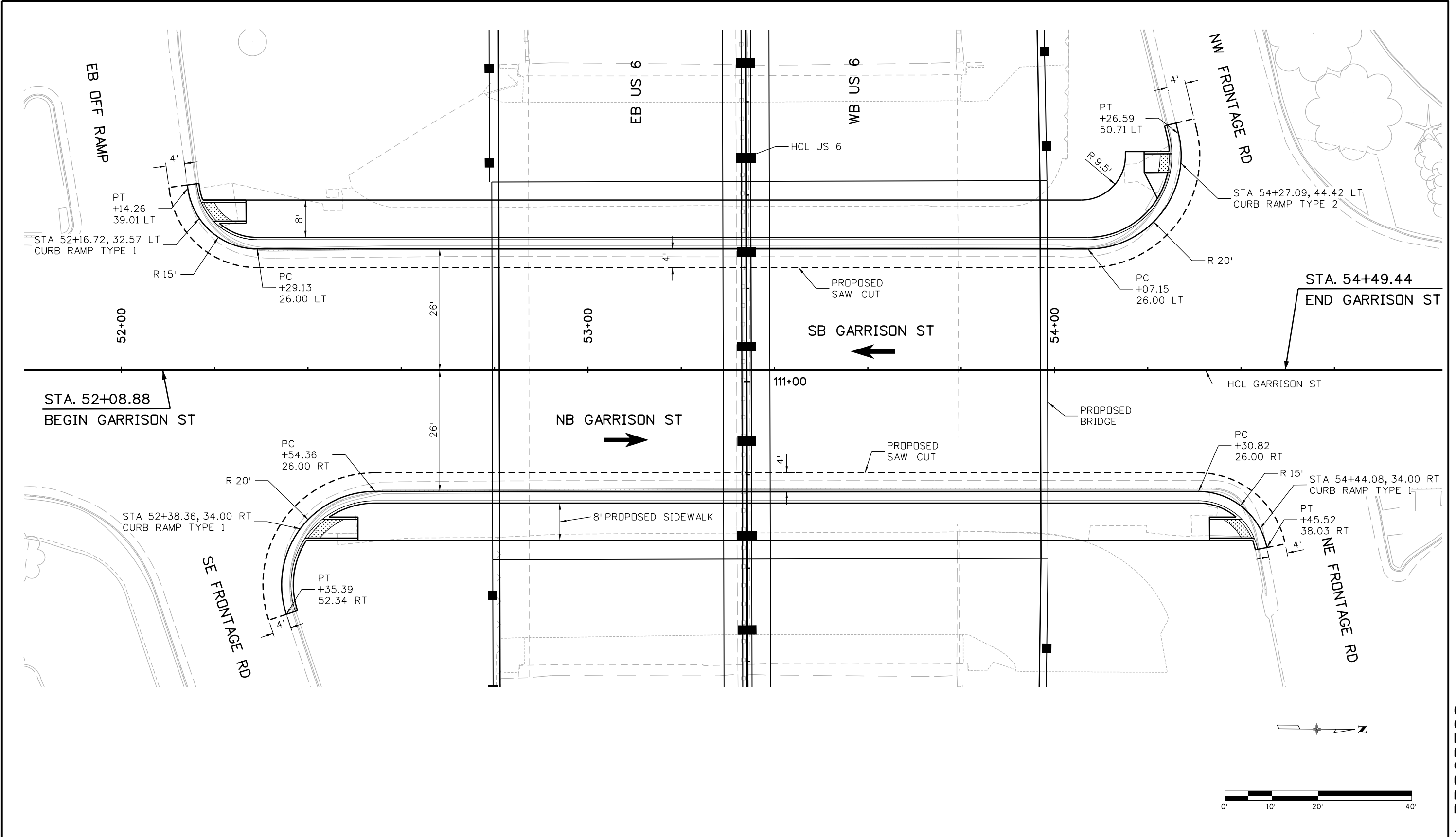
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Designer:	CH	Structure	
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Project No./Code	FBR 0063-046
	19478
Sheet Number	31

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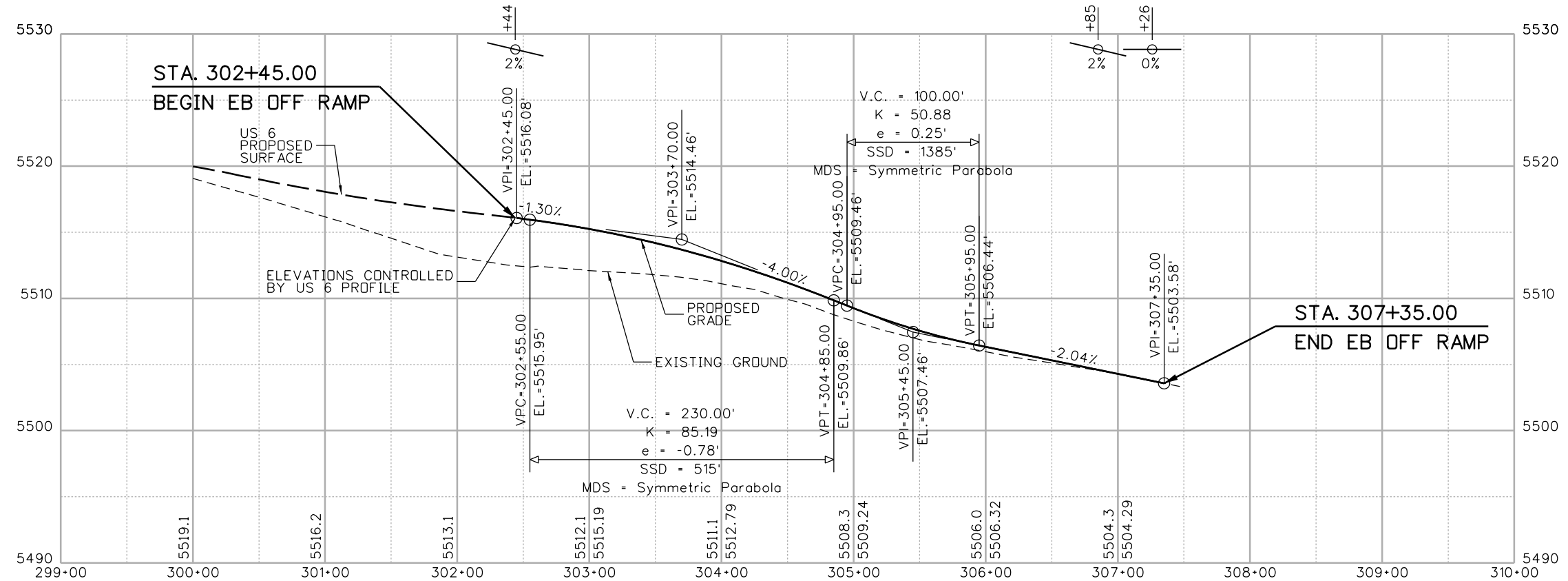
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Unit Information Unit Leader		Region 1		KPB		Sheet Subset: ROADWAY		Subset Sheets: RD4 of 6		Sheet Number 32	

WORK IN PROGRESS

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EB OFF RAMP PROFILE

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Horiz. Scale: 1:100	Vert. Scale: _
Unit Information _	Unit Leader _

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
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Region 1 **KPB**

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No Revisions:
Revised:
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ROADWAY PROFILE EB OFF RAMP			
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Detailer:	CS	Numbers	
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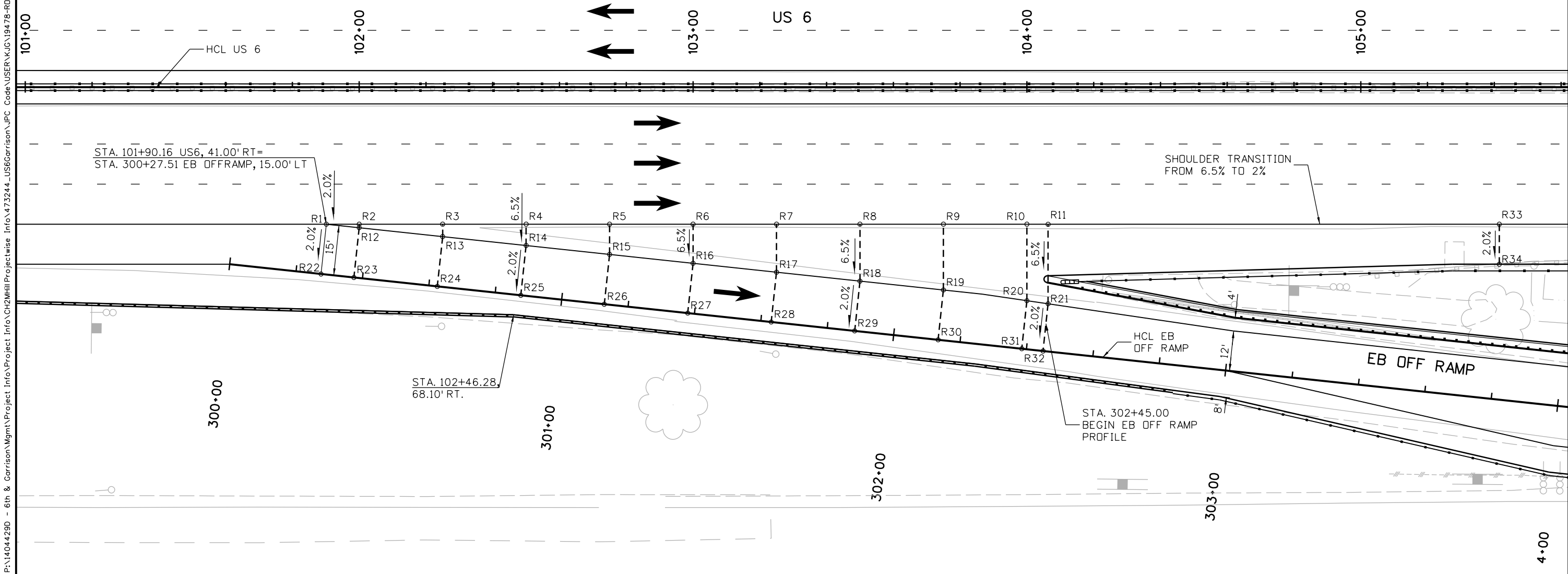
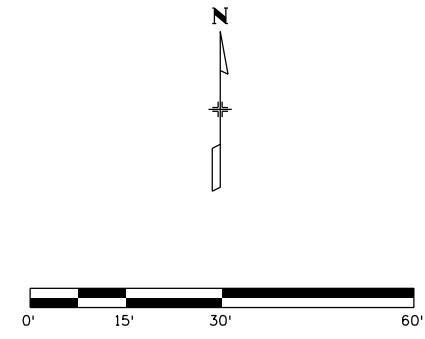
Project No./Code	
FBR 0063-046	
19478	
Sheet Number	33

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

POINT TABLE

POINT	ALIGNMENT	STATION	OFFSET	ELEVATION	POINT DESCRIPTION
R1	US6H	101+90.16	41.00' RT	5519.76'	US6 ETW
R2	US6H	102+00.00	41.00' RT	5519.62'	US6 ETW
R3	US6H	102+25.00	41.00' RT	5519.29'	US6 ETW
R4	US6H	102+50.00	41.00' RT	5519.00'	US6 ETW
R5	US6H	102+75.00	41.00' RT	5518.73'	US6 ETW
R6	US6H	103+00.00	41.00' RT	5518.50'	US6 ETW
R7	US6H	103+25.00	41.00' RT	5518.31'	US6 ETW
R8	US6H	103+50.00	41.00' RT	5518.15'	US6 ETW
R9	US6H	103+75.00	41.00' RT	5518.02'	US6 ETW
R10	US6H	104+00.00	41.00' RT	5517.93'	US6 ETW
R11	US6H	104+06.35	41.00' RT	5517.91'	US6 ETW
R12	US6H	102+00.00	42.05' RT	5519.55'	RAMP ETW
R13	US6H	102+25.00	44.71' RT	5519.05'	RAMP ETW
R14	US6H	102+50.00	47.38' RT	5518.58'	RAMP ETW
R15	US6H	102+75.00	50.04' RT	5518.14'	RAMP ETW
R16	US6H	103+00.00	52.71' RT	5517.74'	RAMP ETW
R17	US6H	103+25.00	55.37' RT	5517.38'	RAMP ETW

POINT	ALIGNMENT	STATION	OFFSET	ELEVATION	POINT DESCRIPTION
R18	US6H	103+50.00	58.04' RT	5517.04'	RAMP ETW
R19	US6H	103+75.00	60.70' RT	5516.74'	RAMP ETW
R20	US6H	104+00.00	63.90' RT	5516.43'	RAMP ETW
R21	US6H	104+06.35	64.83' RT	5516.36'	RAMP ETW
R22	US6H	101+88.57	55.92' RT	5519.46'	RAMP ETW
R23	US6H	101+98.41	56.96' RT	5519.25'	RAMP ETW
R24	US6H	102+23.41	59.63' RT	5518.75'	RAMP ETW
R25	US6H	102+48.41	62.29' RT	5518.28'	RAMP ETW
R26	US6H	102+73.41	64.96' RT	5517.84'	RAMP ETW
R27	US6H	102+98.41	67.62' RT	5517.44'	RAMP ETW
R28	US6H	103+23.41	70.29' RT	5517.08'	RAMP ETW
R29	US6H	103+48.41	72.95' RT	5516.74'	RAMP ETW
R30	US6H	103+73.41	75.62' RT	5516.44'	RAMP ETW
R31	US6H	103+98.47	78.29' RT	5516.15'	RAMP ETW
R32	US6H	104+04.84	78.97' RT	5516.08'	RAMP ETW
R33	US6H	105+41.50	41.00' RT	5518.05'	US6 ETW
R34	US6H	105+41.50	53.00' RT	5517.81'	US6 ETW



Print Date: 7/2/2014
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 Unit Information Unit Leader

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Date:	Comments	Init.

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 Region 1 KP B

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 No Revisions:
 Revised:
 Void:

GORE DETAIL
 EB OFF RAMP
 Designer: CH
 Detailer: CS
 Sheet Subset: ROADWAY
 Structure Numbers
 Subset Sheets: RD6 of 6

Project No./Code
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 19478
 Sheet Number 34

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WORK IN PROGRESS

DRAINAGE STRUCTURE INFORMATION TABLE

ID	TYPE	SIZE	STATION	OFFSET	SIDE
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DRAINAGE SHEET INDEX

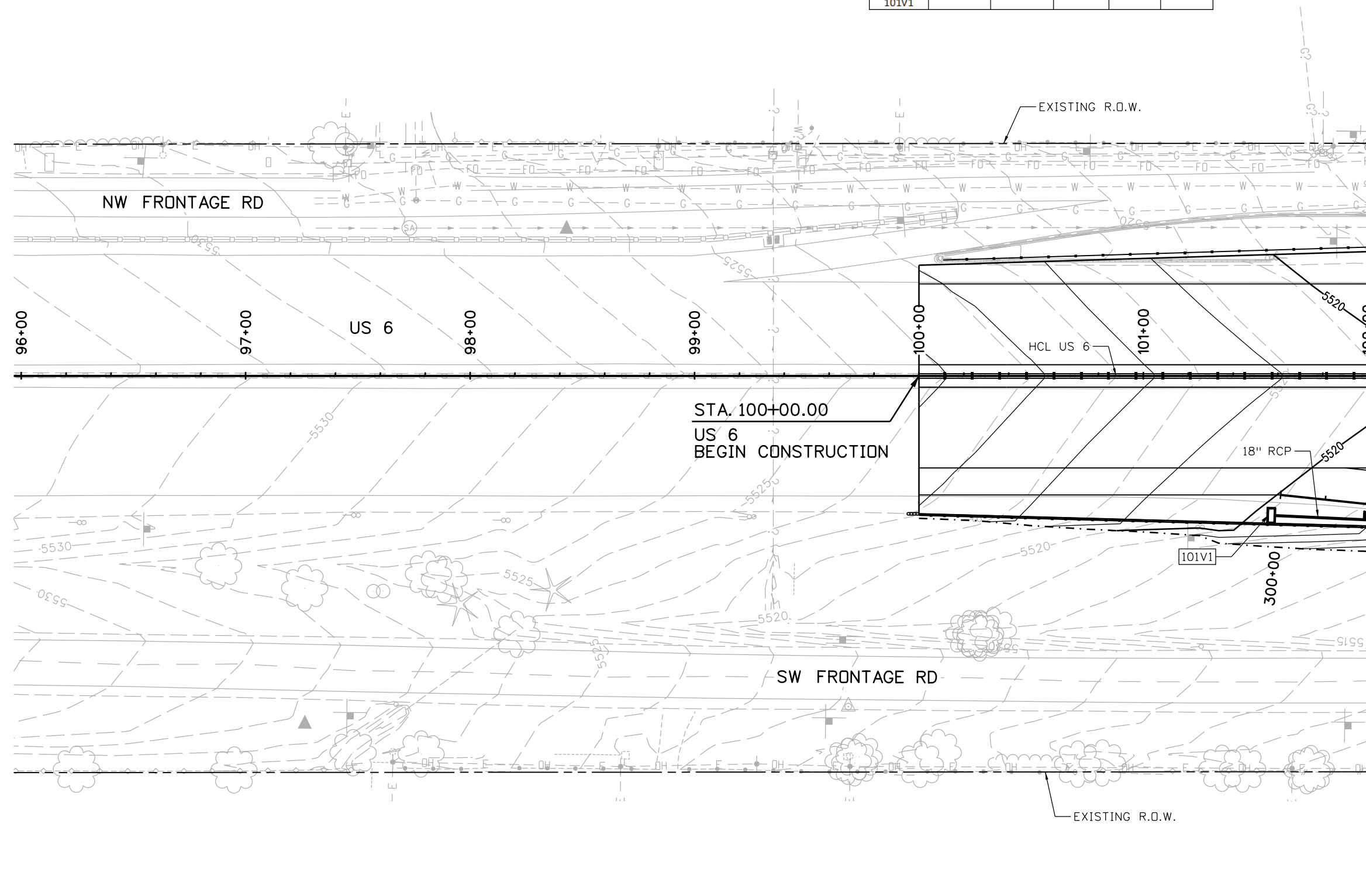
- D1-D5 DRAINAGE PLANS
- D6-D11 DRAINAGE PROFILES
- D12 SOUTHWEST WATER QUALITY POND
- D13 NORTHEAST WATER QUALITY POND

LEGEND:

- R = TYPE R CURB INLET
- C = TYPE C INLET
- V = VANE GRATE INLET
- IN = TYPE 13 INLET
- M = MANHOLE
- F = FLARED END SECTION
- WQ = WATER QUALITY

GENERAL NOTE:

1. SEE DRAINAGE PROFILES AND UTILITY PLANS FOR EXISTING UTILITY INFORMATION.



kristi.gempertine 4:28:57 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-DRAINPL-01.dgn

Print Date: 7/2/2014
 File Name: 19478-DRAINPL-01.dgn
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 Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

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Revised:
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DRAINAGE PLAN
US 6
STA 96+00 TO STA 102+00

Designer: GS	Structure Numbers
Detailer: ADH	
Sheet Subset: DRAINAGE	Subset Sheets: D1 of 13

Project No./Code
 FBR 0063-046
 19478
 Sheet Number **35**

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DRAINAGE STRUCTURE INFORMATION TABLE

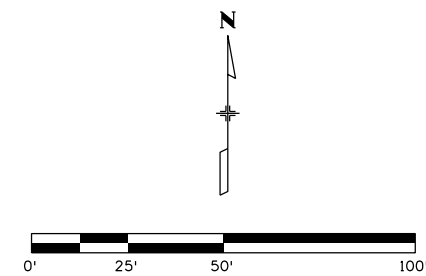
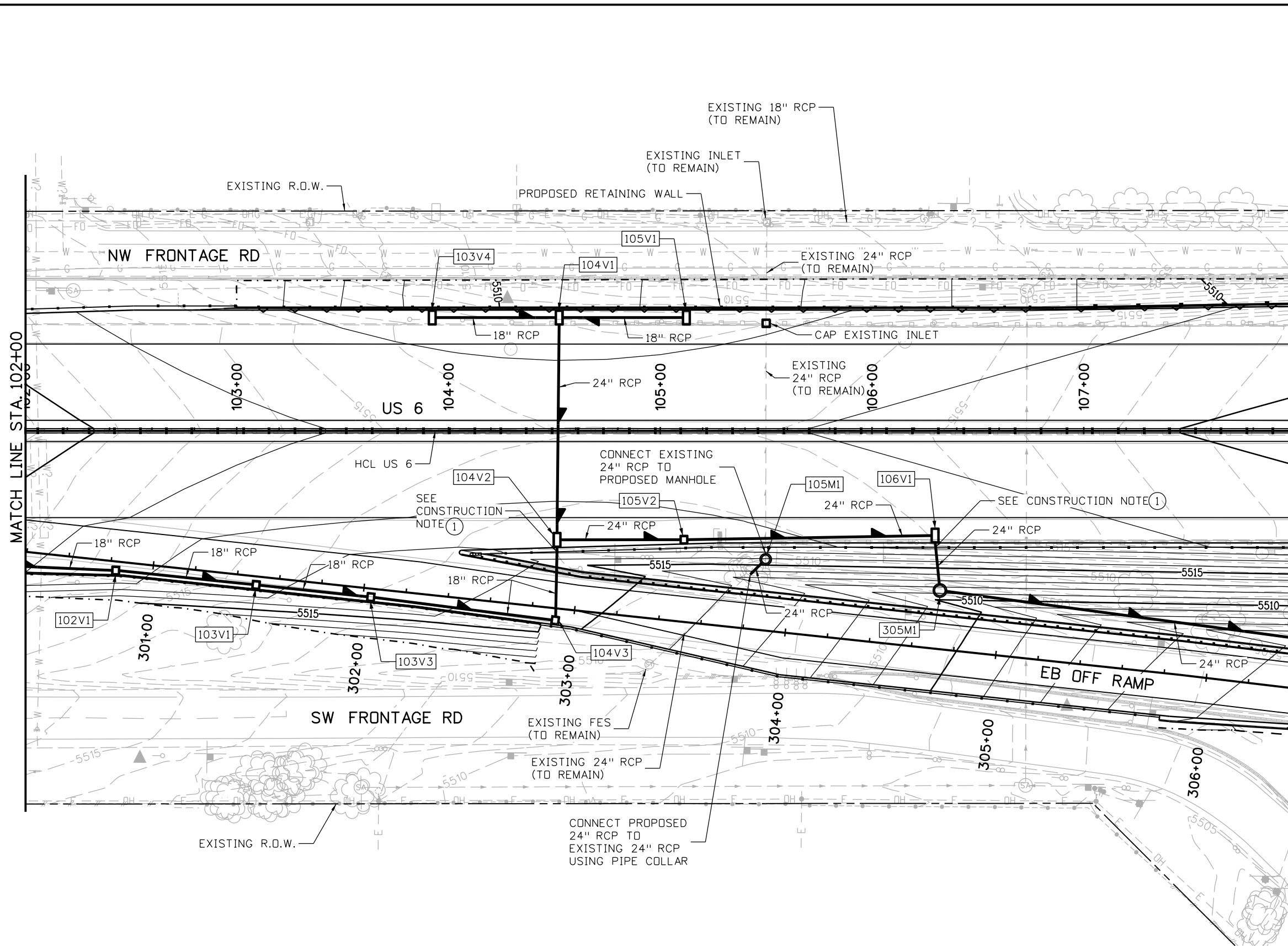
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103V1					
103V3					
103V4					
104V1					
104V2					
104V3					
105V1					
105V2					
105M1					
106V1					
305M1					

NOTE

1. SEE SHEET D1 FOR GENERAL NOTES.

CONSTRUCTION NOTE:

① FOR INLET AND PIPE CONFLICTS WITH THE GUARDRAIL POSTS, SEE CDDT STANDARD PLAN NO. M-606-1, SHEET 18.



kristi.gempert 4:28:58 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-DRAINPL-02.dgn

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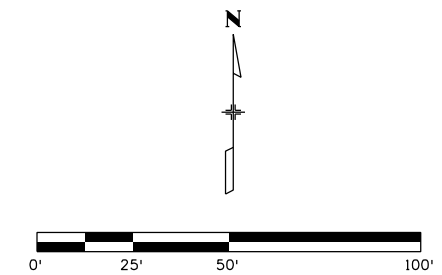
Region 1 **KPB**

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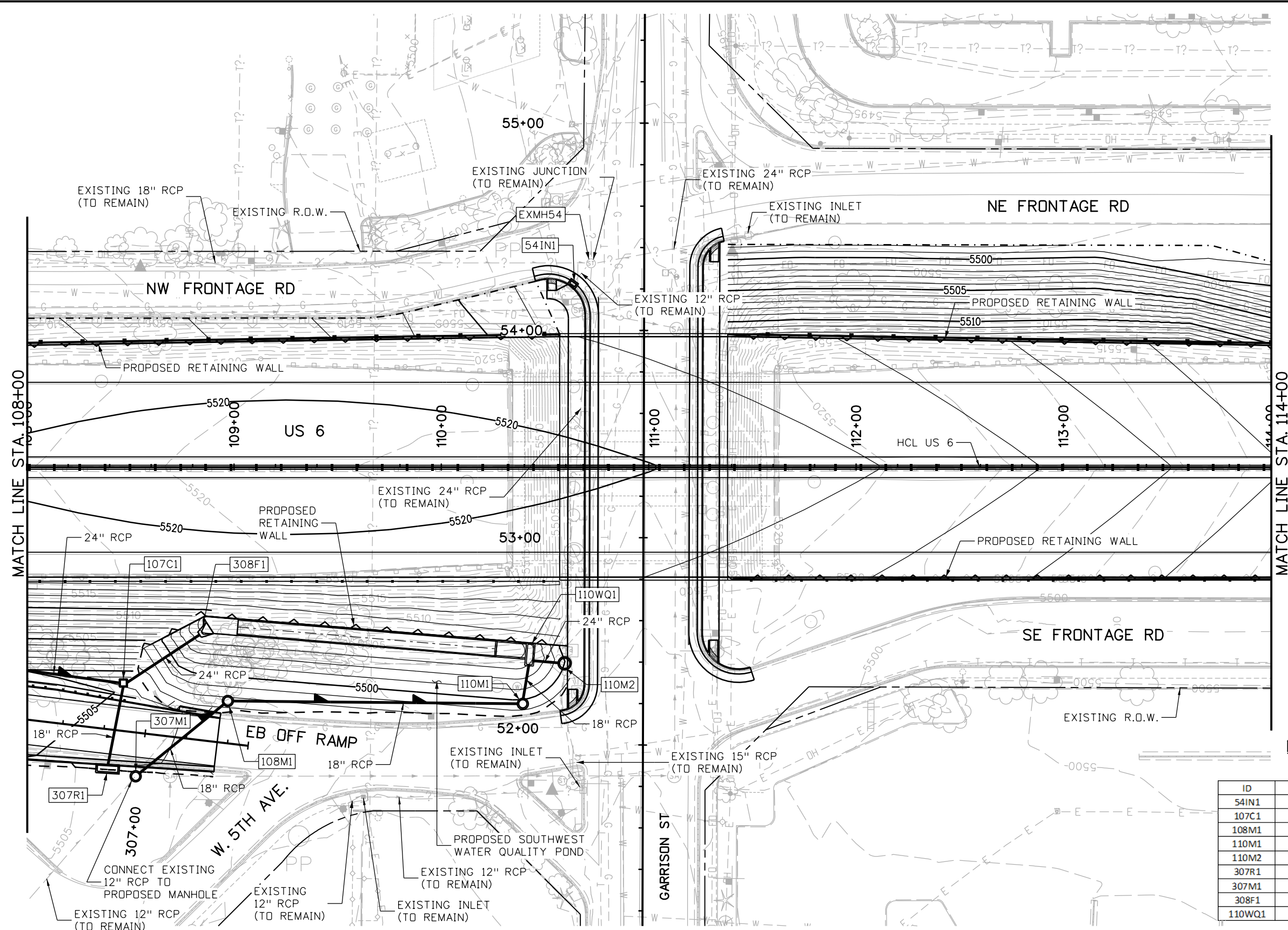
DRAINAGE PLAN	
US 6	
STA 102+00 TO STA 108+00	
Designer: GS	Structure Numbers
Detailer: ADH	
Sheet Subset: DRAINAGE	Subset Sheets: D2 of 13

Project No./Code
FBR 0063-046
19478
Sheet Number 36

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION



NOTE
1. SEE SHEET D1 FOR GENERAL NOTES.



DRAINAGE STRUCTURE INFORMATION TABLE

ID	TYPE	SIZE	STATION	OFFSET	SIDE
54IN1					
107C1					
108M1					
110M1					
110M2					
307R1					
307M1					
308F1					
110WQ1					

kristi.gempertine 4:28:00 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-DRAINPL-03.dgn

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 Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

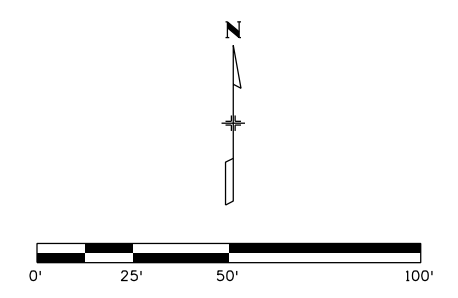
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 **KPB**

As Constructed
 No Revisions:
 Revised:
 Void:

DRAINAGE PLAN
US 6
STA 108+00 TO STA 114+00
 Designer: GS
 Detailer: ADH
 Sheet Subset: DRAINAGE Subset Sheets: D3 of 13

Project No./Code
 FBR 0063-046
 19478
 Sheet Number **37**

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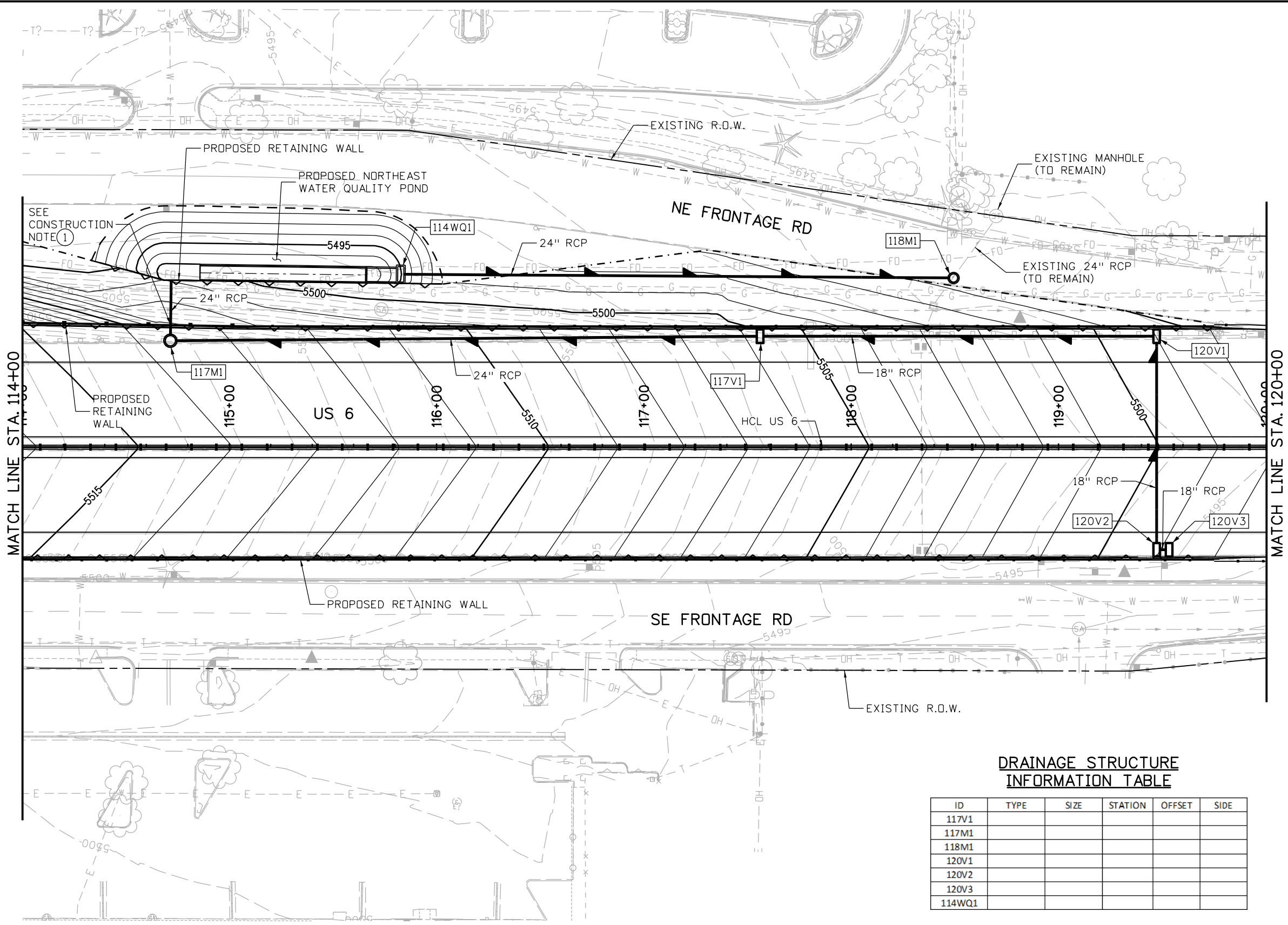


NOTE

- SEE SHEET D1 FOR GENERAL NOTES.

CONSTRUCTION NOTE:

- FOR INLET AND PIPE CONFLICTS WITH THE GUARDRAIL POSTS, SEE CDOT STANDARD PLAN NO. M-606-1, SHEET 18.



DRAINAGE STRUCTURE INFORMATION TABLE

ID	TYPE	SIZE	STATION	OFFSET	SIDE
117V1					
117M1					
118M1					
120V1					
120V2					
120V3					
114WQ1					

kristi.gempertine 4:28:01 PM P:\1404429D - 6th & Garrison\Mgmt\Project Info\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\PC Code\USER\KJC\19478-DRAINPL-04.dgn

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 Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

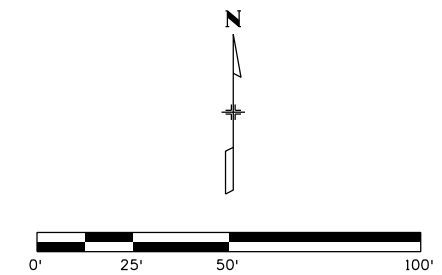
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 **KPB**

As Constructed
 No Revisions:
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DRAINAGE PLAN
US 6
STA 114+00 TO STA 120+00
 Designer: GS
 Detailer: ADH
 Sheet Subset: DRAINAGE Subset Sheets: D4 of 13

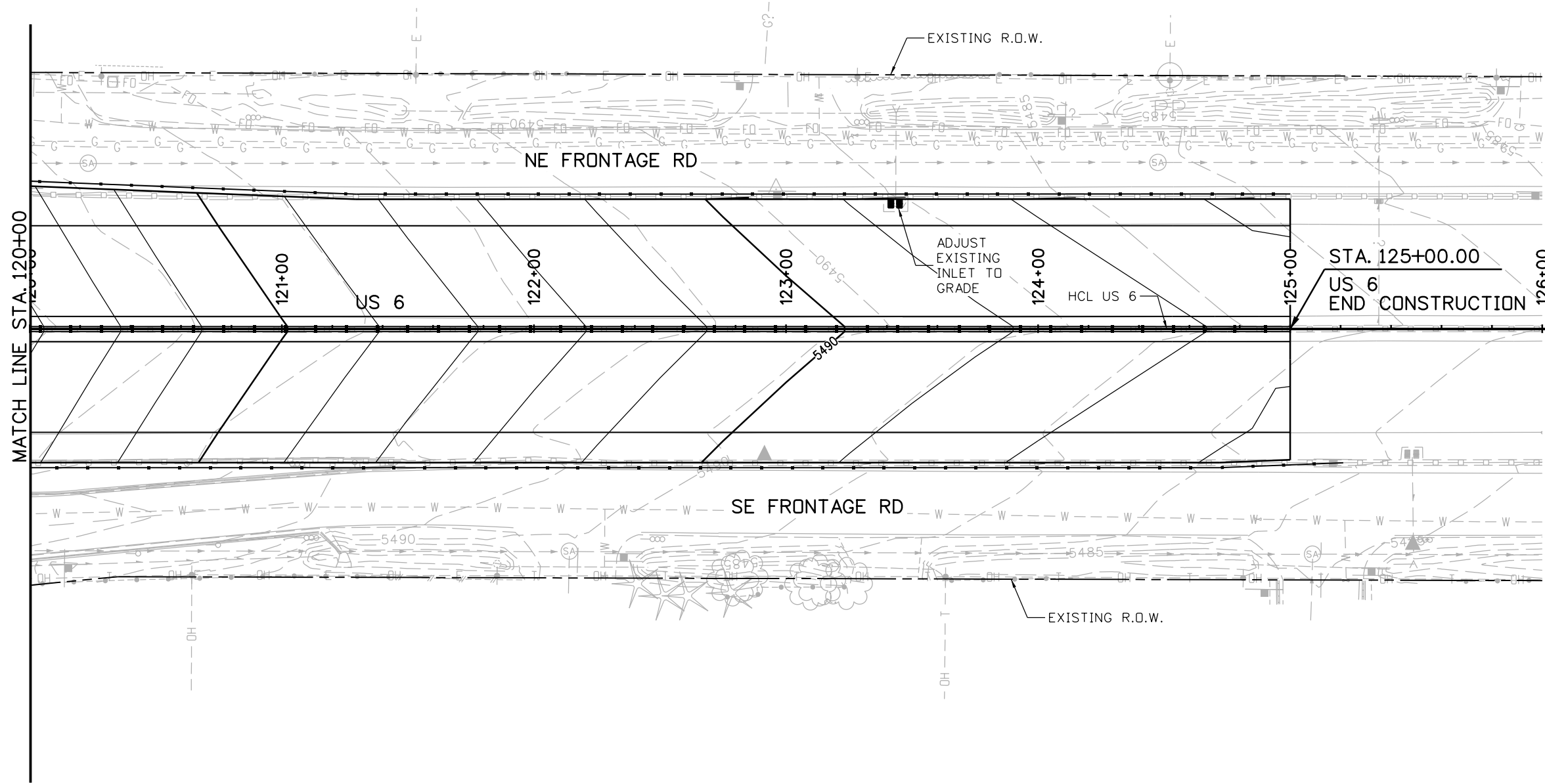
Project No./Code
 FBR 0063-046
 19478
 Sheet Number **38**

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NOTE

- SEE SHEET D1 FOR GENERAL NOTES.

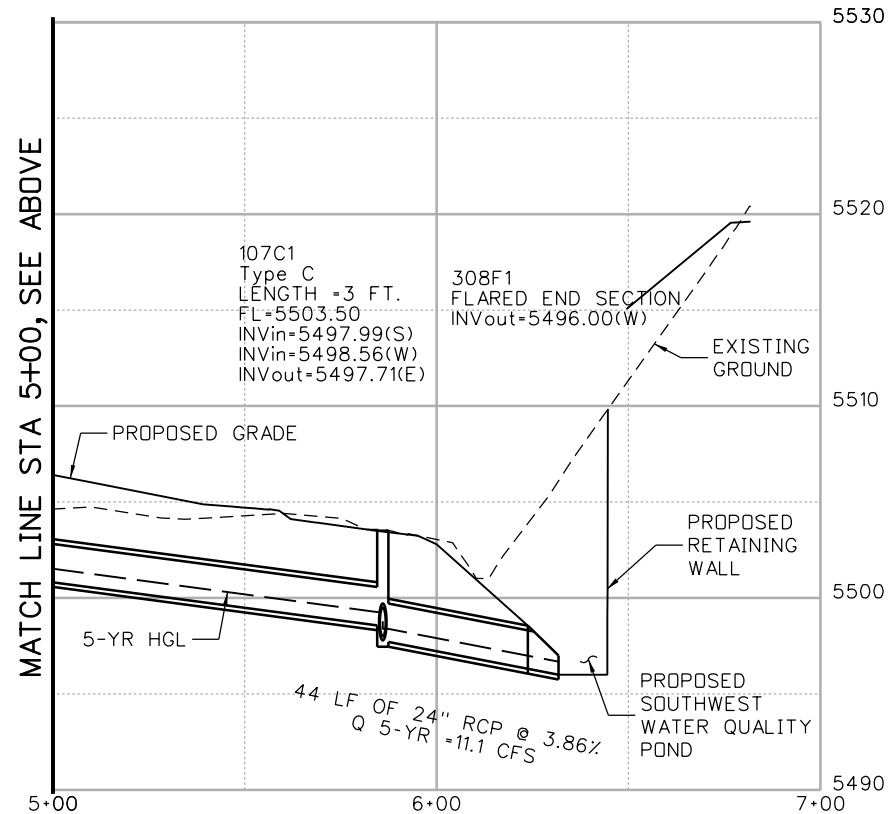
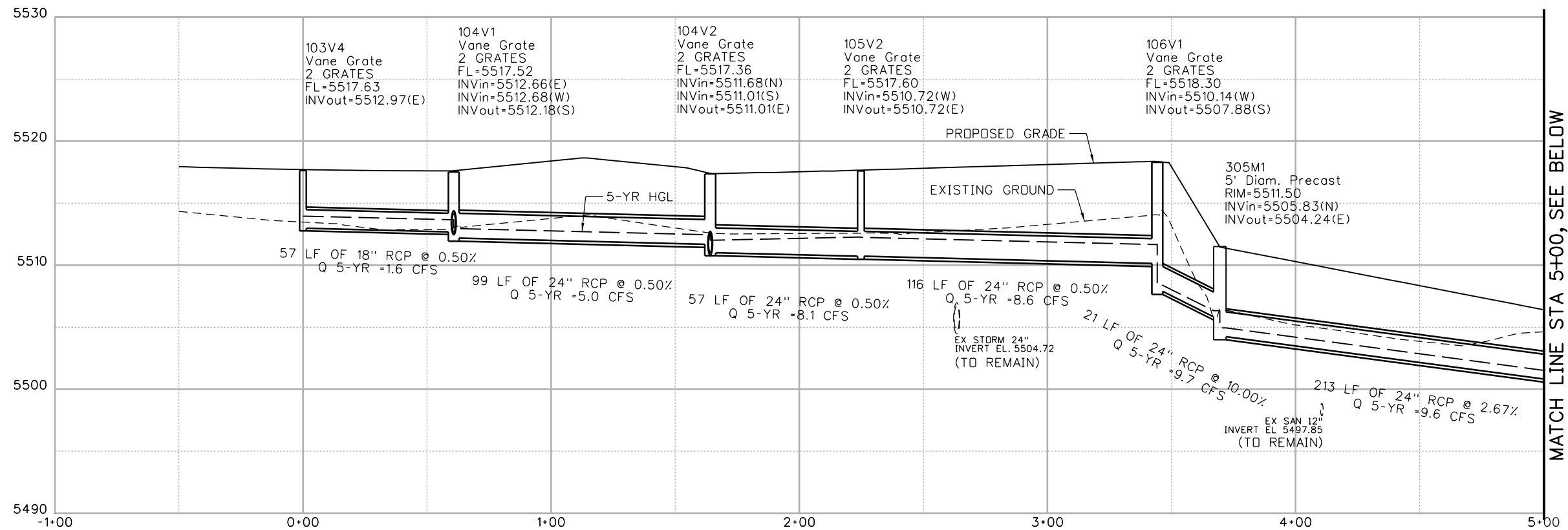


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Print Date: 7/2/2014	0000	Sheet Revisions			Colorado Department of Transportation  425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed		DRAINAGE PLAN			Project No./Code	
File Name: 19478-DRAINPL-05.dgn		Date:	Comments	Init.		No Revisions:	US 6			FBR 0063-046		
Horiz. Scale: 1:50 Vert. Scale:						Revised:	STA 120+00 TO STA 126+00			19478		
Unit Information Unit Leader						Void:	Designer: GS	Structure Numbers	Sheet Number 39			
					KPB		Sheet Subset: DRAINAGE		Subset Sheets: D5 of 13			

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GENERAL NOTES:

1. STATIONING SHOWN IS NOT FOR CONSTRUCTION PURPOSES. SEE DRAINAGE PLAN SHEETS FOR STATIONS AND OFFSETS IN RELATION TO ROADWAY ALIGNMENT.
2. STORM PIPES SHALL BE CLASS III WITH WATERTIGHT GASKETS UNLESS OTHERWISE NOTED.
3. FL = FLOWLINE ELEVATION. CONTRACTOR MUST PROVIDE APPROPRIATE INLET DEPRESSION PER DETAILS.
4. SEE UTILITY PLANS FOR MORE UTILITY LOCATION INFORMATION.
5. EXISTING UTILITIES NOTED WITH VERTICAL LINES ARE FOR NON-POTHOLED UTILITIES AT APPROXIMATED HORIZONTAL LOCATIONS. FIELD VERIFICATION OF HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS WILL BE REQUIRED BY THE CONTRACTOR. IF ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND COORDINATE ADJUSTMENTS.
6. PIPE SLOPE IS CALCULATED USING ACTUAL PIPE LENGTH FROM INSIDE WALL TO INSIDE WALL OF STRUCTURE. PIPE LENGTH IS ROUNDED TO NEAREST FOOT.
7. ALL EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED IN PLACE. THE CONTRACTOR SHALL PROVIDE NECESSARY SUPPORTS WHEN EXPOSING UTILITIES IN OPEN TRENCHES.

**WEST TRUNKLINE -
103V4 TO SOUTHWEST WATER QUALITY POND**

Print Date: 7/2/2014	
File Name: 19478-DRAINPRD-01.dgn	
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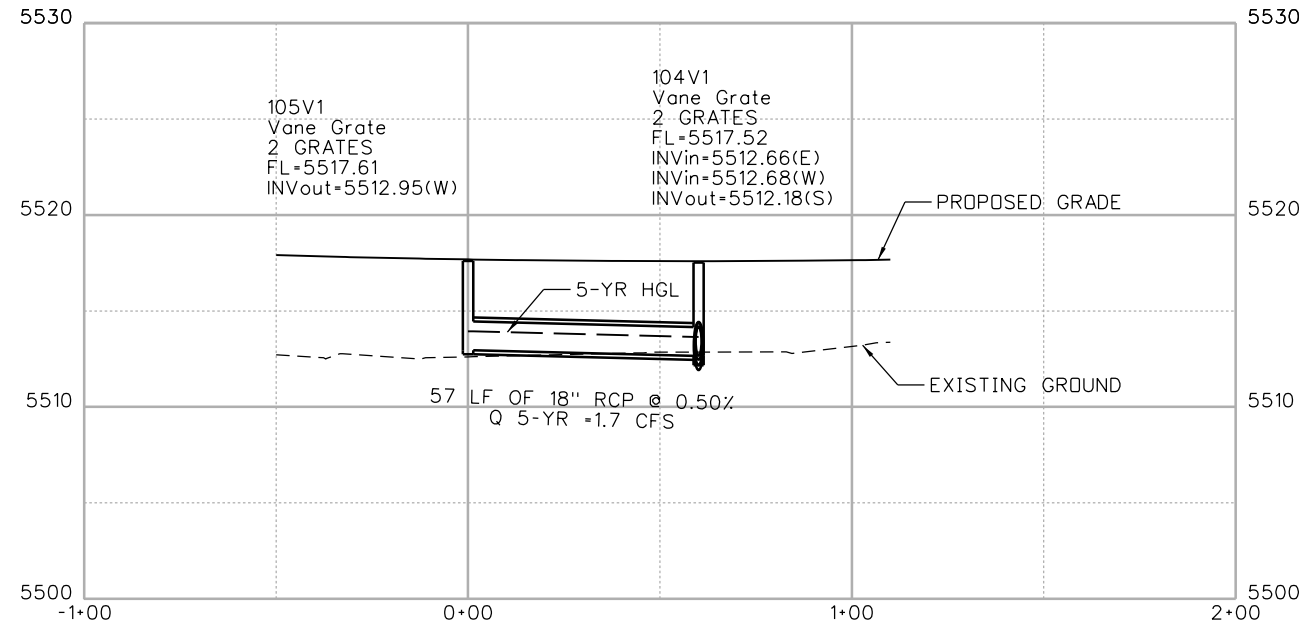
As Constructed
No Revisions:
Revised:
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DRAINAGE PROFILES			
Designer:	GS	Structure	
Detailer:	CS	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D6 of 13		

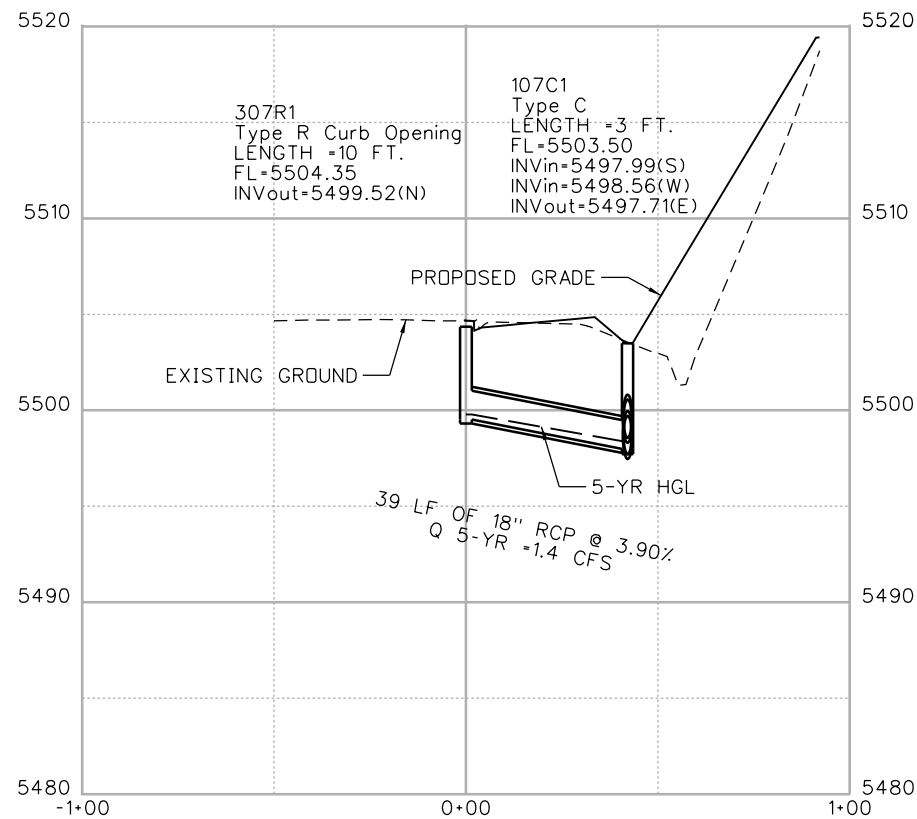
Project No./Code
FBR 0063-046
19478
Sheet Number 40

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WEST TRUNKLINE - 105V1 TO 104V1



EB OFF RAMP A - 307R1 TO 107C1

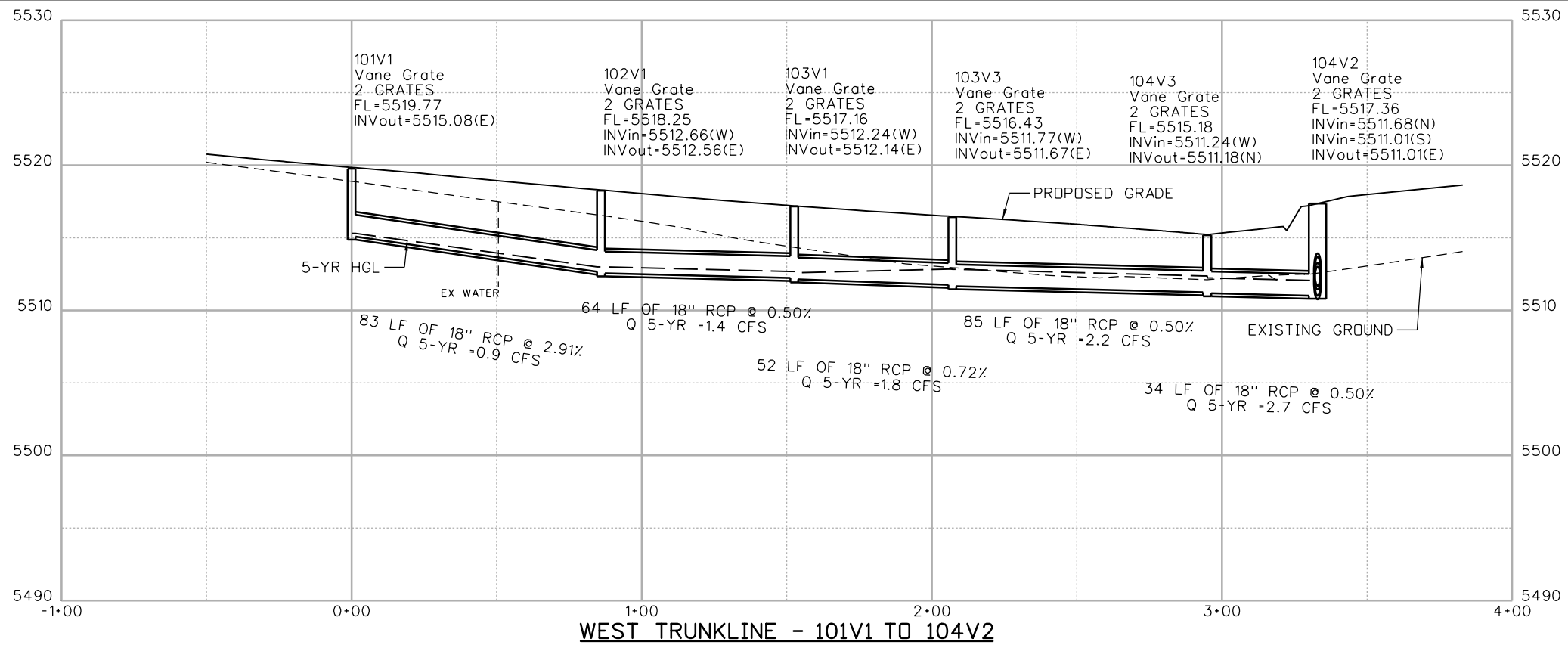
NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.

Print Date: 7/2/2014		Sheet Revisions			Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1 KPB	As Constructed		DRAINAGE PROFILES		Project No./Code	
File Name: 19478-DRAINPRD-02.dgn		Date:	Comments	Init.		No Revisions:	FBR 0063-046				
Horiz. Scale: 1:50 Vert. Scale:						Revised:	Designer: GS	Structure Numbers	19478		
Unit Information Unit Leader						Void:	Detailer: CS	Subset Sheets: D7 of 13	Sheet Number 41		

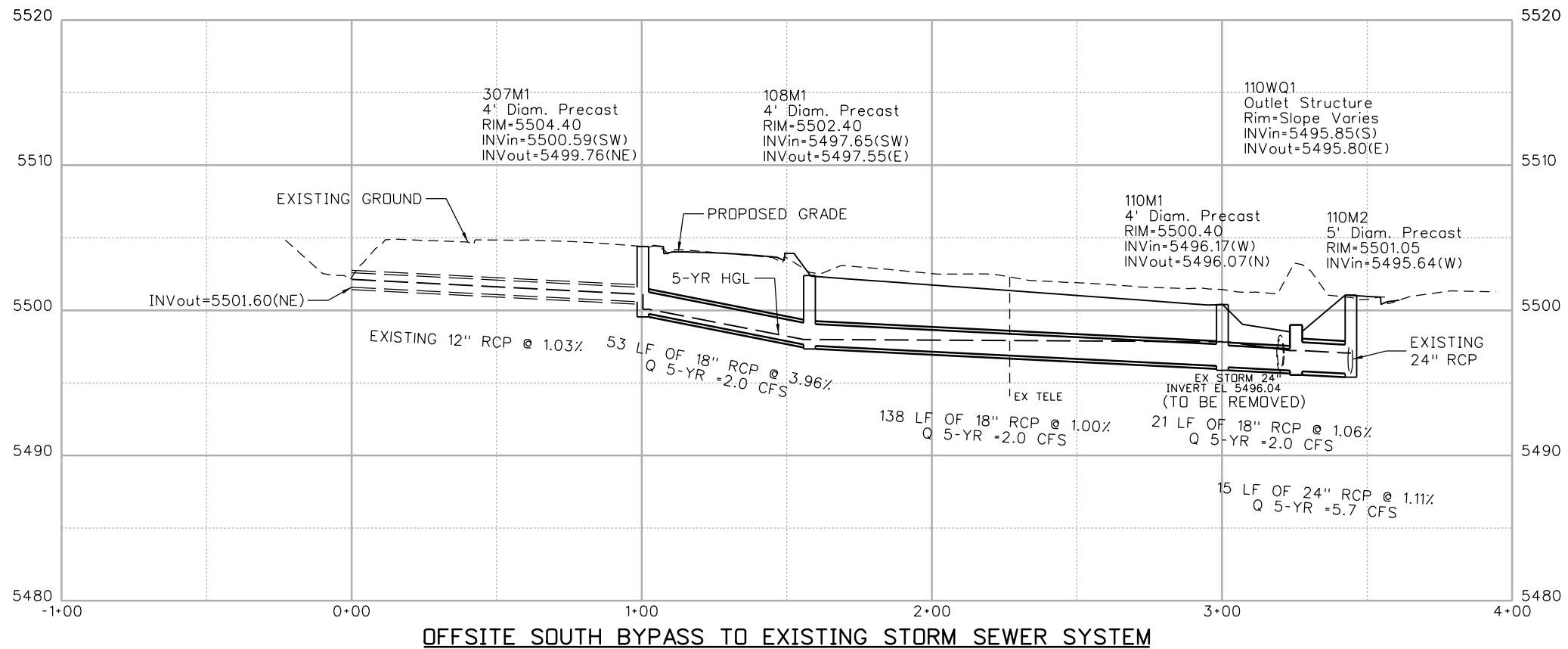
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NOTE


1. SEE SHEET D6 FOR GENERAL NOTES.



Print Date: 7/2/2014
File Name: 19478-DRAINPRD-03.dgn
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Unit Information Unit Leader

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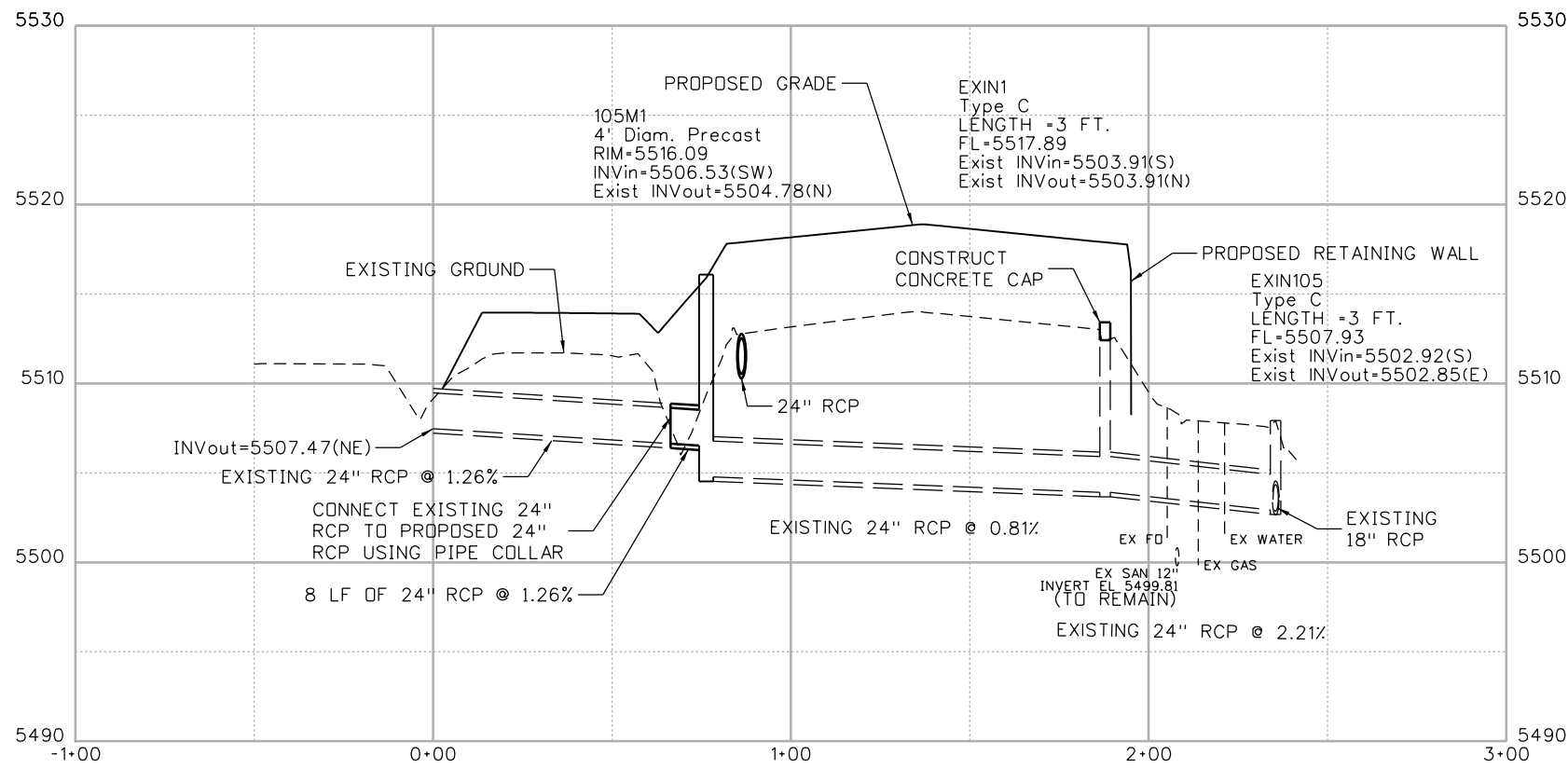
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Designer:	GS	Structure	
Detailer:	CS	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D8 of 13		

Project No./Code
FBR 0063-046
19478
Sheet Number 42

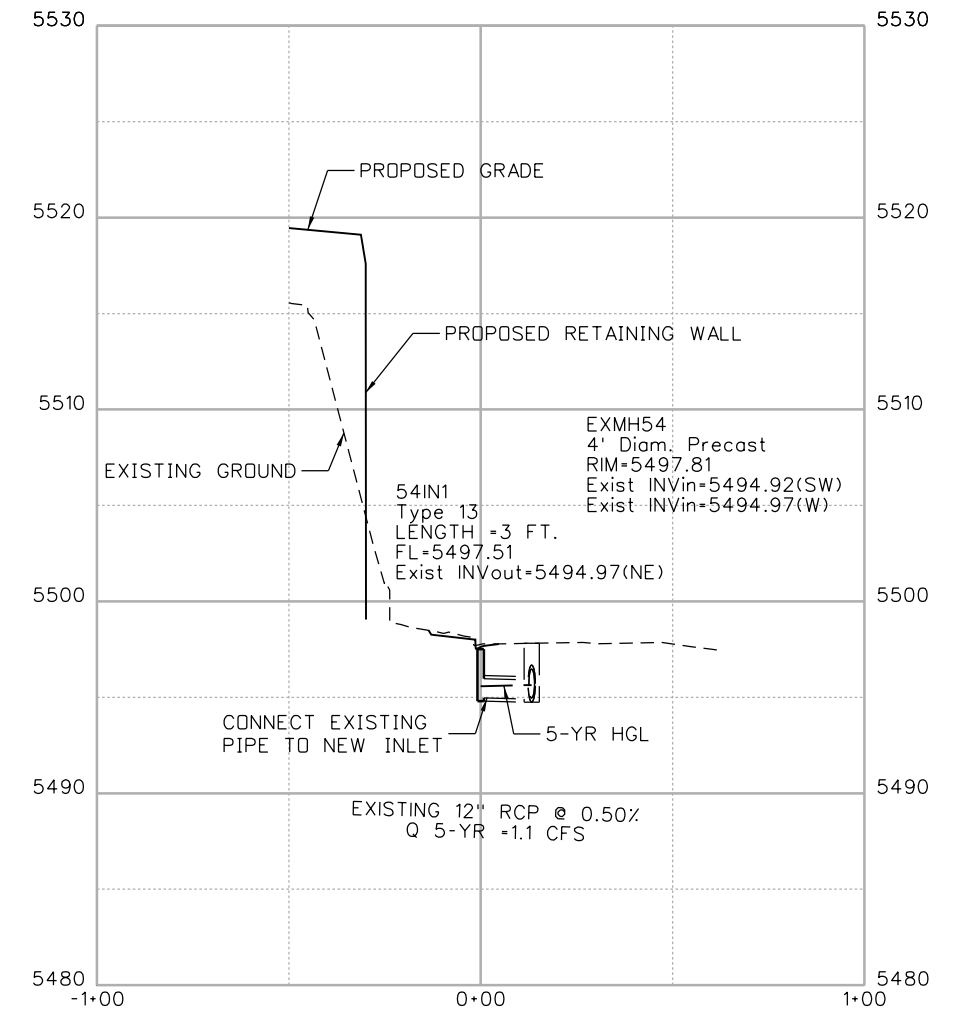
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NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



**EXISTING STORM SEWER SYSTEM THROUGH
105M1**



GARRISON ST - 54IN1 TO EXMH54

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Print Date: 7/2/2014
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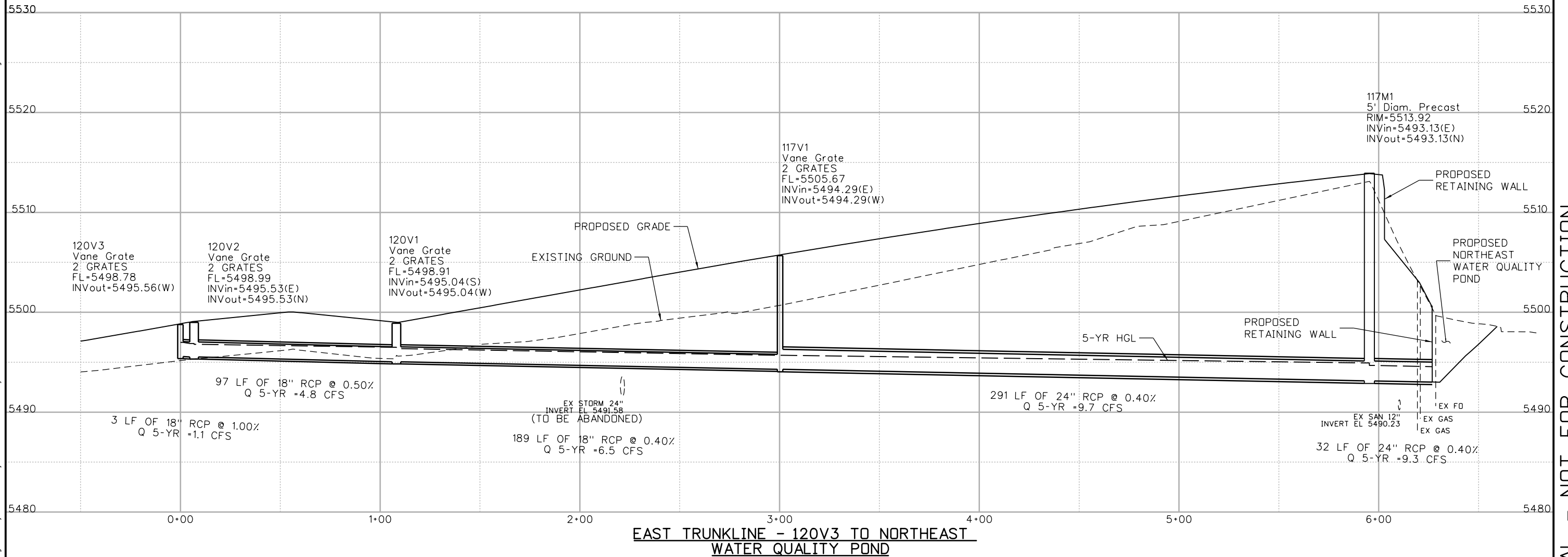
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Designer:	GS	Structure	
Detailer:	CS	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D9 of 13		

Project No./Code
FBR 0063-046
19478
Sheet Number 43

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NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



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Print Date: 7/2/2014	
File Name: 19478-DRAINPRD-05.dgn	
Horiz. Scale: 1:50	Vert. Scale:
Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

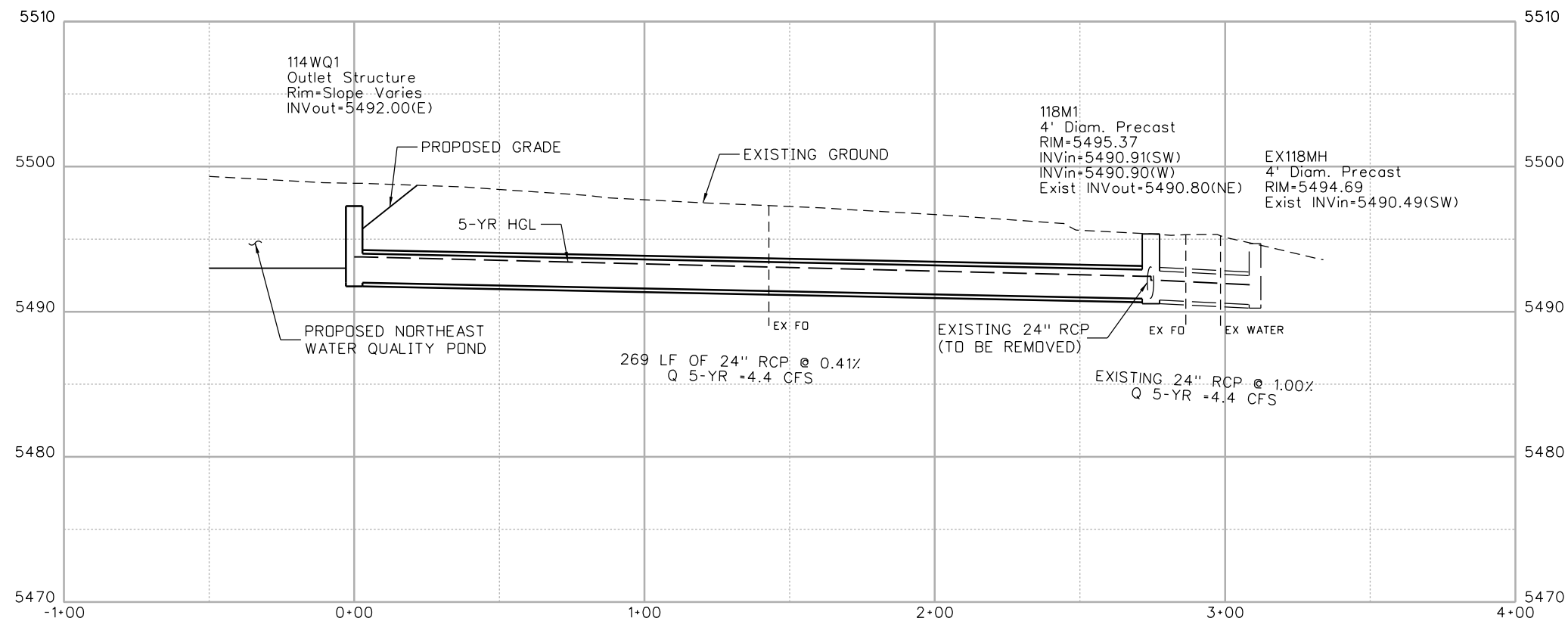
As Constructed
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Revised:
Void:

DRAINAGE PROFILES			
Designer:	GS	Structure	
Detailer:	CS	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D10 of 13		

Project No./Code
FBR 0063-046
19478
Sheet Number 44

NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



114WQ1 TO EXISTING STORM SEWER SYSTEM

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Print Date: 7/2/2014
File Name: 19478-DRAINPRD-06.dgn
Horiz. Scale: 1:50 Vert. Scale:
Unit Information Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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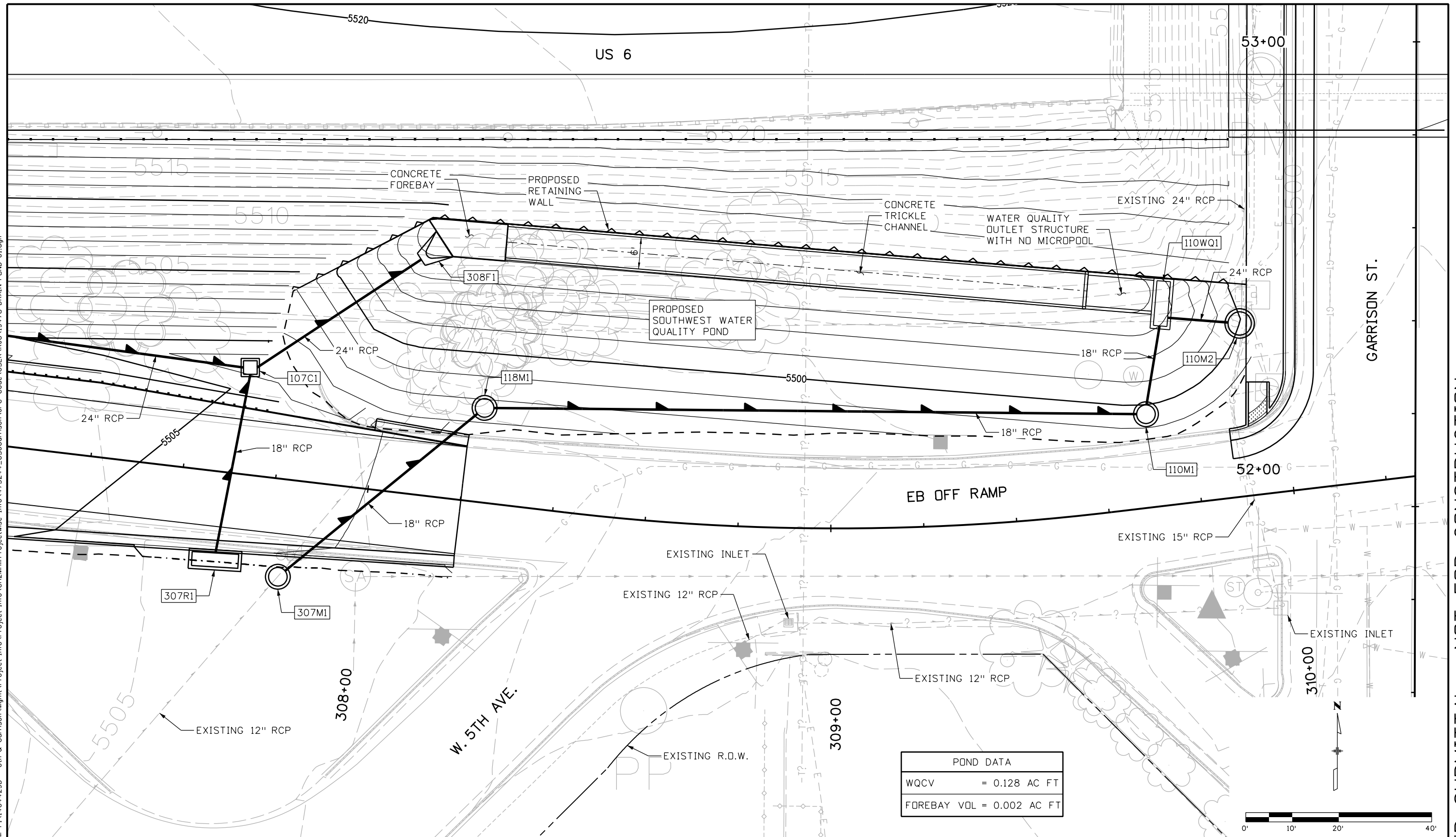
Region 1 **KPB**

As Constructed
No Revisions:
Revised:
Void:

DRAINAGE PROFILES			
Designer:	GS	Structure	
Detailer:	CS	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D11 of 13		

Project No./Code
FBR 0063-046
19478
Sheet Number 45

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POND DATA	
WQCV	= 0.128 AC FT
FOREBAY VOL	= 0.002 AC FT

Print Date: 7/2/2014
File Name: 19478-DRAIN-POND-01.dgn
Horiz. Scale: 1:20 Vert. Scale:
Unit Information Unit Leader

Sheet Revisions			
Date:	Comments	Init.	

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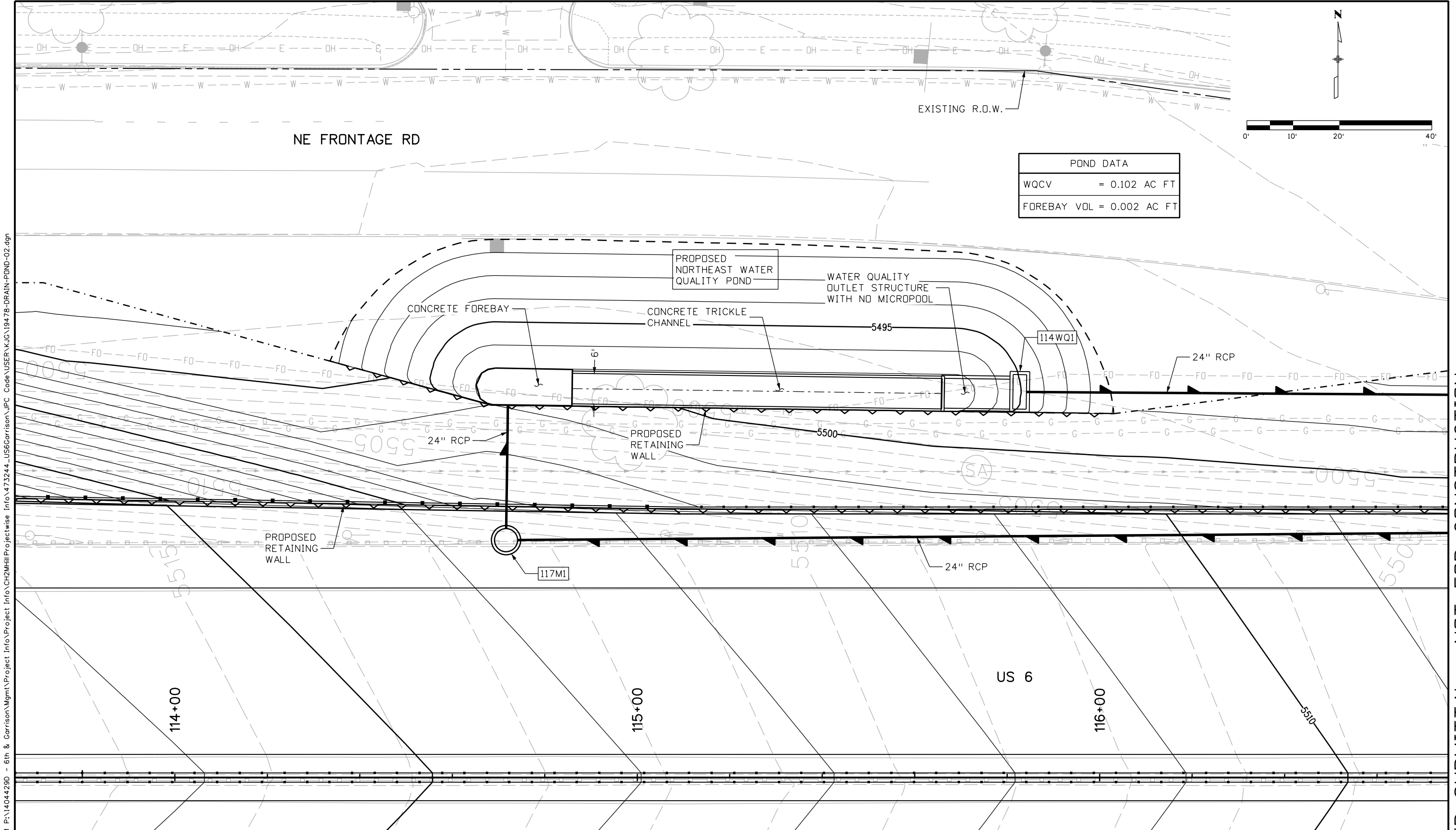
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Region 1 **KPB**

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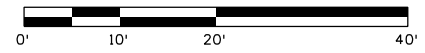
SOUTHWEST WATER QUALITY POND			
Designer:	GS	Structure	
Detailer:	ADH	Numbers	
Sheet Subset:	DRAINAGE		
Subset Sheets:	D12 of 13		

Project No./Code
FBR 0063-046
19478
Sheet Number 46

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POND DATA	
WQCV	= 0.102 AC FT
FOREBAY VOL	= 0.002 AC FT



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	Sheet Revisions			Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	NORTHEAST WATER QUALITY POND		Project No./Code	
	Date:	Comments	Init.			Designer: GS Detailer: ADH	Structure Numbers	FBR 0063-046 19478	
	Unit Information Unit Leader					Sheet Subset: DRAINAGE Subset Sheets: D13 of 13		Sheet Number 47	

SWMP TEMPLATE TEXT WITHOUT BMP NARRATIVES FOR PROJECTS WITH 1 ACRE OR MORE OF DISTURBANCE

[Notes within [] are designer directions – delete all directions prior to final plan submittal. This template does not include narratives in matrix. Narratives must be provided by the designer. All XXX shall be filled in by the designer during design phase]

1. SITE DESCRIPTION

For Information Only to fulfill the CDPS-SCP (Colorado Discharge Permit System - Stormwater Construction Permit) Update to reflect current project site conditions.

- A. **PROJECT SITE DESCRIPTION:** [include description and nature of the construction activities at the site; type of project, summary of grading activities, installation of utilities, paving, excavation, landscape, etc. and the final disposition of the property. Also see the project 463 Form description]
- B. **PROPOSED SEQUENCING FOR MAJOR ACTIVITIES:** [describe the sequence of events involved in the project, such as clearing and grubbing, grading, excavation, structures removal and construction that may impact water quality etc.]
- C. **ACRES OF DISTURBANCE:** [includes clearing, grading, excavation, stockpiling of fill materials, demolition, areas with heavy equipment/vehicle traffic, installation of new or improved haul roads and access roads, staging areas, dedicated borrow/fill areas and storage that will disturb existing vegetative cover. Round area to the nearest 10th of acre]
 - 1. Total area of construction site: [xxx] acres
 - 2. Total area of disturbance: [xxx] acres
 - 3. Acreage of seeding: [xxx] acres
 - 4. Roadway area of disturbance: xxx acres. for major roadway reconstruction projects, also show the roadway disturbance number in acres]
- D. **EXISTING SOIL DATA:** [includes describing list of USDA soil texture classification(s) or existing potential for soil erosion.]
- E. **EXISTING VEGETATION, INCLUDING PERCENT COVER:** [description of the existing vegetation at the site and an estimate of the percent vegetative ground cover. Plant count in accordance with chapter 4 of the CDOT Erosion Control and Stormwater Quality Guide] or "The ECS shall photo-document existing vegetation where all work will be occurring. The ECS shall also perform the vegetation survey transect as outlined in Chapter 4.11.2 of CDOT's Erosion Control and Stormwater Quality Guide. Survey shall be done prior to any disturbance work and shall be included in the cost of the Erosion Control Supervisor"
- F. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The ECS shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.
- G. **RECEIVING WATER:**
 - 1. Outfall locations: [show on plans or table: size, type location of pipes; ditch outfall locations; if the discharge is to a municipal separate storm sewer (MS4), the name of that system, the location/owner of the storm sewer discharge and the ultimate receiving water]
 - 2. Names of receiving water(s) on site and the ultimate receiving water: [xxx]
 - 3. Distance ultimate receiving water is from project: [xxx]
- H. **ALLOWABLE NON-STORMWATER DISCHARGES:** [The location and description of any anticipated allowable sources of non-stormwater components of the discharge, such as uncontaminated springs and landscape irrigation return flow. How will it be handled?]
 - 1. Groundwater and stormwater dewatering: Discharges to the ground of water from construction dewatering activities may be authorized provided that:
 - a. the source is groundwater and/or groundwater combined with stormwater that does not contain pollutants
 - b. the source and BMPs are identified in the SWMP
 - c. discharges do not leave the site as surface runoff or to surface waters.
 - 2. If discharges do not meet the above criteria a separate permit from the Department of Health will be required. Contaminated groundwater requiring coverage under a separate permit may include groundwater contaminated with pollutants from a landfill, mining activities, industrial pollutant plumes, underground storage tank, etc.

For known contamination projects include the following:

- 3. "There is a chance of encountering small amounts of contaminated groundwater and soil during caisson excavations. Low concentrations are expected, if any. If soil or groundwater contamination is encountered work shall stop immediately and the procedures outlined in CDOT Spec 250 will be followed. If contaminated water is encountered it shall not be discharged or allowed to run off directly into a storm sewer, ditch, or any Waters of the State. It shall be contained in drums or tank(s) and disposed of properly. However, uncontaminated water may be discharged onto a grassy swale or sprayed onto a vegetated area and allowed to evaporate. Any discharge/evaporation area shall be approved by the Engineer and done in accordance with the CDPHE guidance on low risk discharges."
- 4. "The Contractor shall protect all work areas and facilities from water at all times. Areas and facilities subject to flooding, regardless of the source of water, shall be promptly dewatered and restored at no cost to the owner. This shall include removal of any debris caused by flooding. Any dewatering shall be done in accordance with the CDPHE's low-risk discharge guidance or any appropriate CDPS permits, if needed."

I. ENVIRONMENTAL IMPACTS:

- 1. Wetland Impacts: YES NO [Underline or circle which applies – remove the answer which does not apply]
- 2. Stream Impacts: YES NO [Underline or circle which applies – remove the answer which does not apply]
- 3. Threatened and Endangered Species: [Underline or circle which applies – remove the answer which does not apply]

2. SITE MAP COMPONENTS:

Pre-construction [The following items need to be shown on the SWMP site map. If they are not shown on the site map, reference the plan sheets or other location where they are shown and can be readily accessed. Make sure to use CDOT line types for the Limits of Disturbance Area (LDA) and the Limits of Construction (LOC). Limits of Disturbance Area is that area which the dirt is actually disturbed. Limits of Construction is that area which is the project limits.]


- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES** [Label temporary and permanent easement lines as "construction boundaries"]
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE** [Label the line used to calculate acres of disturbance as "limits of disturbance "]
- C. **AREAS OF CUT AND FILL** [Label cut/fill lines]
- D. **LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP** [Label BMPs]
- E. **LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP** [Label known non-structural BMPs]
- F. **SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER** [Label locations]
- G. **PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION** [Label locations]
- H. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc) and BATCH PLANTS**

Revise site maps in accordance to 208.03

3. SWMP ADMINSTRATOR FOR DESIGN: [List the individual(s) position or title who is responsible for developing SWMP sheets during design phase]

- A. Once the Contractor takes ownership of the SWMP they will become the owner/operator and assume responsibility for all design changes to the SWMP implementation and maintenance.

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Print Date: 7/29/2014	0000	Sheet Revisions			Colorado Department of Transportation  425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1 KPB	As Constructed		STORM WATER MANAGEMENT NOTES		Project No./Code	
File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.		No Revisions:			FBR 0063-046		
Horiz. Scale: 1:1 Vert. Scale: _						Revised:	Designer:	Structure Numbers	19478		
Unit Information _ Unit Leader _						Void:	Detailer:		Sheet Subset: SWMP	Subset Sheets: E1 of 6	Sheet Number 48

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4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (To be filled out at time of construction; designate the individual(s) responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the administrator shall address all aspects of the projects SWMP.)

Name/Title: _____ Contact information: _____

B. POTENTIAL POLLUTANT SOURCES

Evaluate, identify and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place in the SWMP notebook. All BMPs related to potential pollutants shall be shown on the SWMP site map by the contractor's ECS.

C. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION PHASED BMP IMPLEMENTATION


During Design: "BMP as Designed" boxes are marked when used in the SWMP. During construction: the ECS shall update the "In use on site" boxes to match which BMPs are currently in use on site. Clearly describe the relationship between the phases of construction and the implementation of BMP controls.

STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP and Pay Item Name	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
<u>PROTECTION OF EXISTING WETLANDS</u> Fence (plastic) and erosion logs	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.			X	X	
<u>PROTECTION OF EXISTING TREES/LANDSCAPING</u> Fence (plastic)	Fence (plastic) shall be used in areas indicated in the plans to protect mature trees and/or existing landscaping prior to start of construction disturbances.			X	X	
<u>CHECK DAM/DITCH CHECK</u> Erosion log, silt berm, silt dike, rock check dam	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.			X	X	X

<u>TYPE R AND TYPE 16 INLET PROTECTION</u> Storm drain inlet protection (type 1 and 2)	Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.				X	X	X
<u>CULVERT INLET/OUTLET PROTECTION</u> Erosion logs, aggregate bags	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.				X	X	X
<u>TYPE C, TYPE D AND TYPE 13 PROTECTION</u> Erosion logs, aggregate bags, erosion bales	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.				X	X	X
<u>STOCKPILE PROTECTION</u> Earth berm, erosion logs, aggregate bags*	Placed within specified distance from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stock pile, increase control as stock pile increases size.					X	
<u>TOE OF FILL PROTECTION</u> Erosion logs, earth berm, silt fence, topsoil windrow*	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.				X	X	
<u>PERIMETER CONTROL</u> Erosion logs, silt fence, earth berm, topsoil windrow*	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area				X	X	
<u>SEDIMENT CONTROL/SLOPE CONTROL</u> Silt fence, erosion logs	Placed on the contour on a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.				X	X	
<u>TEMPORARY SEDIMENT TRAP</u> (ECS shall add locations to SWMP site maps)	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances.				X	X	
<u>PERMANENT SEDIMENT BASIN</u> Extended detention basin	Constructed early in project, prior to storm sewer/ditches to capture storm flow as a temporary sediment trap. Outlet structure shall be modified for construction runoff.				X	X	
<u>EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN</u>	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope. Place prior to start of construction disturbances.					X	X
<u>OUTLET PROTECTION</u> Riprap, or approved other	Material placed as energy dissipater to prevent erosion at outlet structure. Place prior to start of construction disturbances or outlet construction.					X	X
<u>CONCRETE WASHOUT</u> In-ground or fabricated	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.				X	X	
<u>VEHICLE TRACKING PAD</u>	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.				X	X	
<u>SWEEPING</u>	Source control, used to remove sediment tracked onto paved surfaces and to prevent from entering drainage system. Sweep daily and at the end of the construction shift as needed.				X	X	

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Print Date: 7/29/2014	0000	Sheet Revisions			Colorado Department of Transportation  425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1 KPB	As Constructed		STORM WATER MANAGEMENT NOTES		Project No./Code	
File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.		No Revisions:			FBR 0063-046		
Horiz. Scale: 1:1 Vert. Scale: _						Revised:	Designer:	Structure Numbers	19478		
Unit Information _ Unit Leader _						Void:	Detailer:	Sheet Subset: SWMP	Subset Sheets: E2 of 6	Sheet Number 49	

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DEWATERING (Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)	Shall be done in such a manner to prevent potential pollutants from entering state waters.				X	X
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water. Follow the project's 404 and SB 40 permit requirements.				X	X
CLEAN WATER DIVERSION	Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff. Follow the project's 404 and SB 40 permit requirements.				X	X
OTHER						

NON-STRUCTURAL BMPs that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

APPLICATION, BMP and Pay Item Name	NARRATIVE	BMP AS DESIGNED	IN USE ON SITE	BMP PHASING		
				FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
VEGETATIVE BUFFER STRIP Fence (plastic)	Filter sediment laden runoff from disturbance area. Area to be identified for preservation prior to construction starting.			X	X	X
PROTECTION OF TREES Fence (plastic)	Placed prior to construction to protect existing vegetation to remain.			X	X	X
PRESERVATION OF MATURE VEGETATION Fence (plastic)	Used to protect existing stable cover and minimize impact to vegetation. Area to be identified for preservation prior to construction starting.			X	X	X
SURFACE ROUGHENING / GRADING TECHNIQUES Blading, Backhoe, Dozing, Combination Loader	Temporary stabilization of disturbance and to minimize wind and erosion. To be installed after the activity ceases for the day.				X	
SEEDING TEMPORARY Seeding (temporary)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction. To be installed when work is temporarily halted and as approved by the Engineer.				X	
MULCH/MULCH TACKIFIER Munching (weed free), (weed free hay), (weed free straw), (wood strand), (hydraulic) and Mulch Tackifier	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer. To be installed as seeding establishment within 4 hours after seeding.				X	X

SPRAY-ON BLANKET Flexible Growth Medium, Spray-on Mulch Blanket	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer. To be installed in conjunction with seeding within 4 hours after seeding.				X	X
SEEDING PERMANENT Seeding (native), (lawn), (forbs), (riparian), (shrubs), (trees), or (wetlands)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. To be installed within 48 hours after topsoil placement soil conditioning or combination thereof starts and shall be pursued to completion.					X
SOIL RETENTION BLANKET Soil retention blanket (class 1-class 2 - class 3 - class 4) (biodegradable class 1-class 2- class 3 - class 4) (Photodegradable class 1 - class 2 - class 3 - class 4) (special) (plastic) (Plastic/special)	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. To be installed in conjunction with seeding within 4 hours after seeding.					X
TURF REINFORCEMENT MAT Turf reinforcement mat (class1 - class 2 - class 3 - class 4), soil retention grid, soil retention system, geocell cellular confinement system	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment. To be installed in conjunction with seeding within 4 hours after seeding					
OTHER						

Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction control are BMPs related to construction access and staging. BMP locations are indicated on the SWMP site map.

NARRATIVES

[If BMPs are proposed in design and marked in the 'BMP as Designed' column and/or listed in the tabulation of quantities, those BMPs must be described in this section and they shall be located on the site map. Clearly describe the relationship between the phases of construction and the implementation of each used BMP. The narrative should explain what, when, where, how and why the BMP is being used.]
BMP details and narratives not covered by the SWMP or Standard Plan M-208-1 shall be added to the SWMP notebook by the ECS.

D. OFFSITE DRAINAGE (RUN ON WATER)

- Describe and record BMPs on the SWMP site map that has been implemented to address off site run-on water in accordance with subsection 208.03.

E. VEHICLE TRACKING PAD/VEHICLE TRACKING CONTROL

- BMPs shall be implemented in accordance with subsection 208.04.
- Vehicle washing shall be contained on site.

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File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.			No Revisions:	Designer:	Structure Numbers	
Horiz. Scale: 1:1 Vert. Scale:							Revised:	Detailer:		
Unit Information Unit Leader							Void:	Sheet Subset: SWMP	Subset Sheets: E3 of 6	

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F. PERIMETER CONTROL

1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters.
2. Perimeter control may consist of vegetation buffers, berms, silt fence, erosion logs, existing landforms, or other BMPs as approved.
3. Perimeter control shall be in accordance with subsection 208.04.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR DURING CONSTRUCTION

The SWMP should be considered a "living document" that is continuously reviewed and modified. SWMP site maps only show suggestions and are conceptual. It is anticipated that additional BMPs will be necessary throughout construction and they shall be recorded on the SWMP Site Maps. The Contractor shall update and amend this SWMP as needed to address project activities and shall create new SWMP site maps for each phase of the project or as the site maps become illegible. During construction, the following items shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208.

SWMP Information shown is based upon existing conditions. The Contractor is responsible for making their own determination as to the accuracy of BMP types and locations shown. Contractor ECS shall coordinate with the Superintendent and Engineer as to the appropriate BMPs and their locations and shall make the updates to the SWMP sheets as soon as the changes are known.

During construction, indicate how items that have not been addressed during design are being handled in construction. If items are covered in the template or other sections of the SWMP notebook indicate below what section the discussion takes place.

- A. MATERIALS HANDLING AND SPILL PREVENTION
- B. STOCKPILE MANAGEMENT - shall be done in accordance with subsection 107.25 and 208.07
- C. VEHICLE TRACKING
- D. CONCRETE WASHOUT - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.
- E. SAW CUTTING - shall be done in accordance with subsection 107.25, 208.04, 208.05
- F. NEW INLET PROTECTION
- G. STREET CLEANING - shall be done in accordance with subsection 208.04

6. INSPECTIONS

- A. Inspections shall be in accordance with subsection 208.03 (c).

7. BMP MAINTENANCE

- A. Maintenance shall be in accordance with subsection 208.04 (f).

8. RECORD KEEPING

- A. Records shall be kept in accordance with subsection 208.03 (c).

9. INTERIM AND FINAL STABILIZATION

A. SEEDING PLAN [add the approved seed mix in the following table]

Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated xxx acres of disturbed area within the right-of-way limits which are not surfaced. The following types and rates shall be used:

COMMON NAME	BOTANICAL NAME	LBS. PLS PER ACRE
TOTAL		

- B. SEEDING APPLICATION: Drill seed 0.25 inch to 0.5 inch into the soil. In small areas not accessible to a drill, hand broadcast at double the rate and rake 0.25 inch to 0.5 inch into the soil.
- C. MULCHING APPLICATION: Apply a minimum of 1 1/2 tons of certified weed free native hay or straw per acre and in accordance with Section 212, and mechanically crimp it into the soil in combination with an organic mulch tackifier.
 - a. Prior to winter shutdown or the summer seeding window: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier per section 213.
- D. SPECIAL REQUIREMENTS: Due to high failure rates, hydromulching and/or hydroseeding will not be allowed.

Or

"Due to steep slopes, hydroseeding and hydromulching will be allowed on this project. Hydroseeding rate shall be at doubled the attached rate. Hydroseeding and hydromulching shall not be done in the same slurry, but shall be two separate operations. See SWMP for hydroseeding/hydromulching locations. Hydromulch shall conform to 213 Spray-on Mulch Blanket. Hydroseeding / hydromulching shall be paid for as Seeding (Native) and Spray On Mulch Blanket respectively."

E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:

[Minimum requirements for all disturbances to receive seeding (native). Compost is optional within areas above 8000 ft in elevation]

Soil conditioner paid for as Item 212- Soil Conditioning (Acre)		
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) (1/2 inch depth)
600	200	65

*Biological nutrient shall not exceed 8-8-8 (N-P-K). Humate based material shall be in accordance to Section 212 and compost shall be in accordance to Special Provision 212. Refer to Project Special- Topsoil for additional topsoil amendments. Placing compost when required to amend embankment and as soil conditioner may be combined as a single application.

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File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.		No Revisions:	Designer: Detailer: Sheet Subset: SWMP			FBR 0063-046	
Horiz. Scale: 1:1						Revised:			Structure Numbers		19478
Unit Information						Void:	Subset Sheets: E4 of 6		Sheet Number		
					SWMP		E4 of 6				

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- F. **BLANKET APPLICATION:** On slopes and ditches requiring a blanket, the blanket shall be placed in lieu of mulch and mulch tackifier. See SWMP for blanket locations. Soil retention blankets shall be placed in the flow lines of ditches and swales steeper than 2% and are required on all slopes 3:1 or greater. Soil retention blankets shall be paid as 208 Soil Retention Blankets, square yard.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

[Select item(s) that apply, delete references to all others]

- Seeded areas shall be reviewed during the 14 day inspections by the Erosion Control Supervisor for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be regraded, seeded, mulched and have mulch tackifier (or blanket) applied as necessary, at no additional cost to the project.
- Areas where seed has not germinated after one season shall be evaluated by the Engineer and CDOT Landscape Architect. Areas that have not germinated shall have seed, mulch and mulch tackifier (or blanket) reapplied. Work shall be paid for by the appropriate bid item.
- The Contractor shall maintain seeding/mulch/tackifier, mow to control weeds or apply herbicide to control weeds in the seeded areas until Final Acceptance.

10. PRIOR TO FINAL ACCEPTANCE

- Final Acceptance shall be in accordance with subsection 208.10 Items to be Accomplished Prior to Final Acceptance and 214.04 Landscape Establishment.
- At the Partial Acceptance of the project and prior to Landscape Establishment phase, it shall be determined by the ECS and the Engineer which temporary BMP's shall remain until 70% reestablishment or which shall be removed.
- At the end of the project, all ditch checks shall either consist of temporary erosion logs or permanent rip-rap.
- All storm drains shall be cleaned prior to the end of the project. Work shall be included in 203 Clean Culvert. **[**NEED CLEAN CULVERT PSP**]**


11. TABULATION OF STORMWATER QUANTITIES

[Designer to delete all that do not apply]

Pay Item	Description	Pay Unit	*Quantity
203-01500	Blading	Hour	
203-01510	Backhoe	Hour	
203-01550	Dozing	Hour	
203-01594	Combination Loader	Hour	
203-02330	Laborer	Hour	
207-00205	Topsoil	CY	
207-00210	Stockpile Topsoil	CY	
208-00001	Silt Dike	LF	
208-00002	Erosion Log (12 Inch)	LF	
208-00004	Silt Berm	LF	
208-00008	Erosion Log (9 inch)	LF	
208-00009	Erosion Log (20 Inch)	LF	
208-00011	Erosion Bales (Weed Free)	Each	
208-00015	Sand Bag	Each	
208-00020	Silt Fence	LF	
208-00021	Silt Fence (Reinforced)	LF	
208-00030	Sediment Basin	Each	
208-00033	Sediment Trap	Each	
208-00035	Aggregate Bag	LF	

208-00041	Rock Check Dam	Each	
208-00045	Concrete Washout Structure	Each	
208-00051	Storm Drain Inlet Protection (Type1)	LF	
208-00052	Storm Drain Inlet Protection (Type2)	LF	
208-00055	Rigid Inlet Protection Device	Each	
208-00060	Temporary Slope Drain	LF	
208-00070	Vehicle Tracking Pad	Each	
208-00103	Removal and Disposal of Sediment (Labor)	Hour	
208-00105	Removal and Disposal of Sediment (Equipment)	Hour	
208-00106	Sweeping (Sediment Removal)	Hour	
208-00107	Removal of Trash	Hour	
208-00205	Erosion Control Supervisor	Hour	
208-00206	Erosion Control Supervisor	Day	
208-00300	Temporary Berm	LF	
208-00301	Temporary Diversion	LF	
212-00006	Seeding (Native)	Acre	
212-00009	Seeding (Temporary)	Acre	
212-00032	Soil Conditioning	Acre	
213-00002	Mulching (Weed Free Hay)	Acre	
213-00003	Mulching (Weed Free)	Acre	
213-00004	Mulching (Weed Free Straw)	Acre	
213-00012	Spray-on Mulch Blanket	Acre	
213-00013	Spray-on Mulch Blanket	LB	
213-00061	Mulch Tackifier	LB	
213-00150	Bonded Fiber Matrix	Acre	
213-00151	Bonded Fiber Matrix	LB	
214-00000	Landscape Maintenance	LS	
214-00005	Landscape Maintenance (24 Month)	LS	
216-00101	Soil Retention Blanket (Straw/Coconut) (Photodegradable Class 1)	SY	
216-00111	Soil Retention Blanket (Excelsior) (Photodegradable Class 1)	SY	
216-00122	Soil Retention Blanket (Coconut) (Photodegradable Class 2)	SY	
216-00201	Soil Retention Blanket (Straw/Coconut) (Biodegradable Class 1)	SY	
216-00211	Soil Retention Blanket (Excelsior) (Biodegradable Class 1)	SY	
216-00222	Soil Retention Blanket (Coconut) (Biodegradable Class 2)	SY	
216-00301	Turf Reinforcement Mat (Class_1)	SY	
216-00302	Turf Reinforcement Mat (Class_2)	SY	
216-00303	Turf Reinforcement Mat (Class_3)	SY	
217-00000	Herbicide Treatment	SY	
217-00020	Herbicide Treatment	Hour	
607-11525	Fence (Plastic)	LF	
700-70380	Erosion Control	FA	


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File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.		No Revisions:			FBR 0063-046		
Horiz. Scale: 1:1 Vert. Scale:						Revised:	Designer:	Structure Numbers	19478		
Unit Information Unit Leader						Void:	Detailer:	Sheet Subset: SWMP	Subset Sheets: E5 of 6	Sheet Number 52	

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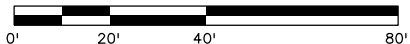
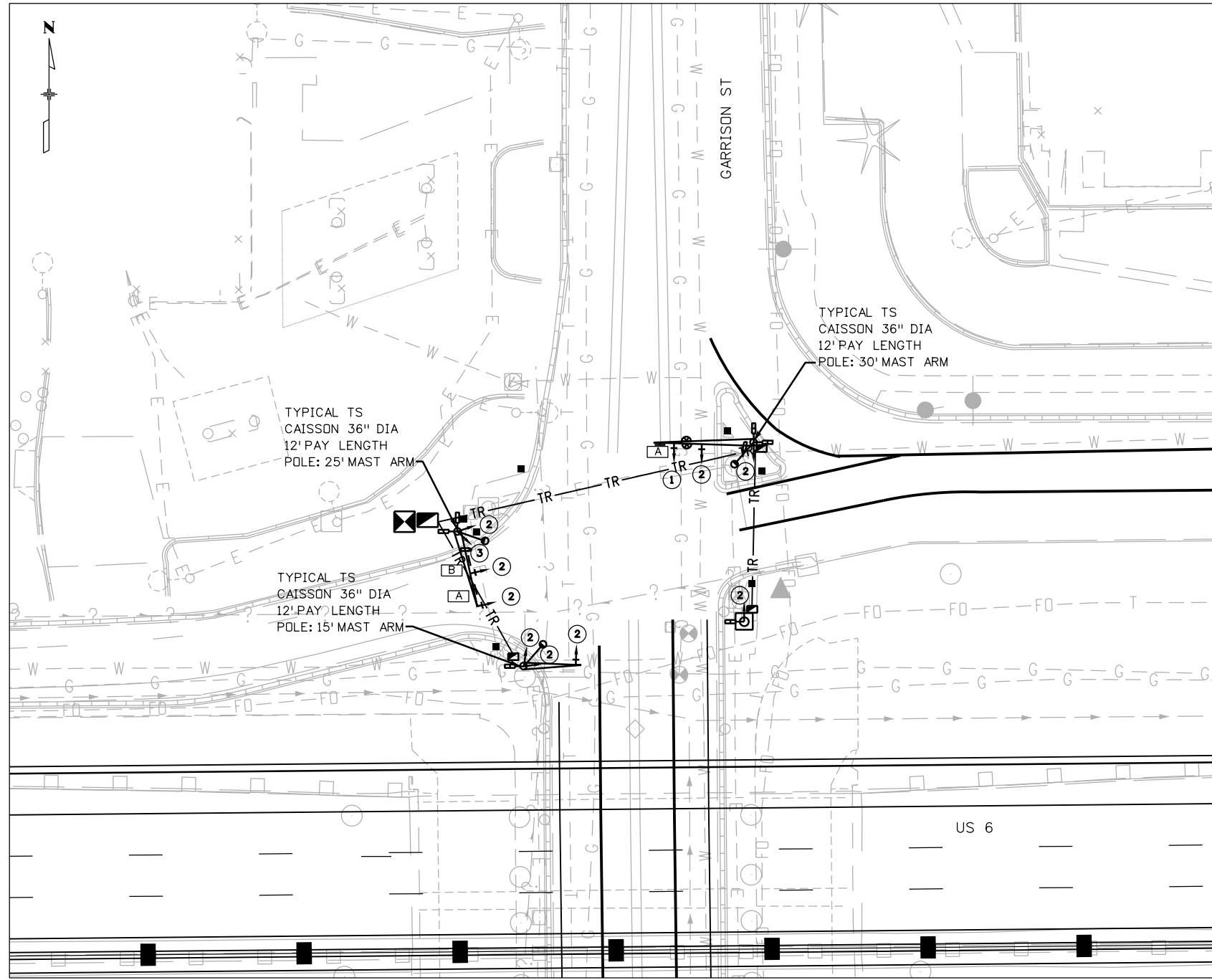
- *It is anticipated that additional BMPs and BMP quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsection 208.03 and 208.04 (e). Quantities for all BMPs shown above are estimated, and have been increased for unforeseen Project conditions. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.
 - A. BMP sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other BMP maintenance shall be included in the cost of the BMP Device.
 - B. It is estimated that XXX hours of labor, blading (X horsepower), dozing (X horsepower), combination loader (X horsepower) and/or backhoe (X horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: [Select appropriate pay item, delete references to others] 203 Labor, 203 Blading, 203 Dozing, 203 Combination Loader or 203 Backhoe.
 - C. Maintenance of seeded areas shall be paid for as: [FA Erosion Control, 212 Seeding (native), 213 Mulching, 216 Soil Retention Covering, 214 Landscape Maintenance Lump Sum, 203 Labor Hours, or included in the price of the work]

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File Name: 19478-EROSNOTES-01A.dgn		Date:	Comments	Init.		No Revisions:			FBR 0063-046		
Horiz. Scale: 1:1 Vert. Scale:						Revised:	Designer:	Structure Numbers	19478		
Unit Information Unit Leader						Void:	Detailer:	Sheet Subset: SWMP	Subset Sheets: E6 of 6	Sheet Number 53	

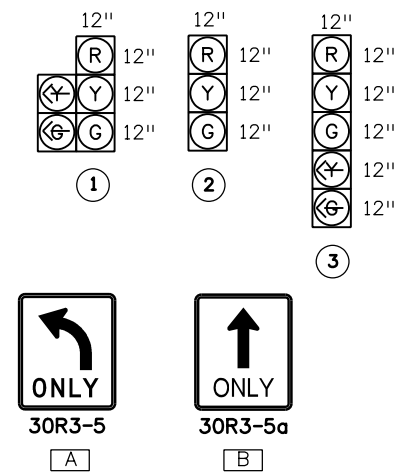
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NOTES
 1. STREET NAME SIGN FROM OLD MAST ARM SHALL BE RESET TO NEW MAST ARM.

SIGNAL FACE DETAILS



PROPOSED SIGNAL LEGEND

- CONTROLLER CABINET
- SIGNAL FACE WITHOUT BACKPLATE
- SIGNAL FACE WITH BACKPLATE
- FIRE UNIT
- PED PUSH BUTTON & POST ASSM
- PEDESTRIAN SIGNAL FACE
- SIGNAL POLE MAST ARM
- SIGNAL POLE LUMINAIRE
- PULL BOX TYPE C
- PULL BOX TYPE A
- MAST ARM SIGN
- DETECTION CAMERA
- PEDESTAL POLE

TABULATION OF SIGNAL ITEMS

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
202-00828	REM OF TRAFFIC SIGNAL EQUIPMENT	LS	.5
210-00815	RESET SIGN PANEL	EA	1
210-00866	RESET FIRE PRE-EMPT	EA	2
503-00036	DRILLED CAISSON 36"	LF	36
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	189
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	332
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	198
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	82
613-10000	WIRING	LS	.5
613-70250	LUMIN HPS (250 W)	EA	3
614-00011	SIGN PANEL (CL I)	SF	23
614-70150	PED SIGNAL FACE (16)(COUNTDOWN)	EA	6
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	8
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12-12)	EA	2
614-72863	PED PUSH BUTTON & POST ASSM	EA	6
614-72886	INTERSECTION DETECT SYS (CAMERA)	EA	2
614-81115	SIGNAL-LIGHT POLE STEEL (1-15 FT)	EA	1
614-81125	SIGNAL-LIGHT POLE STEEL (1-25 FT)	EA	1
614-81130	SIGNAL-LIGHT POLE STEEL (1-30 FT)	EA	1
614-86246	CONTROLLER (TYPE 170E-HC11)	EA	1
614-86800	UNINTERRUPT POWER SUPPLY	EA	1

ALL QUANTITIES CARRIED FORWARD TO THE TABULATION OF TRAFFIC ENGINEERING ITEMS



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Colorado Department of Transportation

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 Denver, CO 80222
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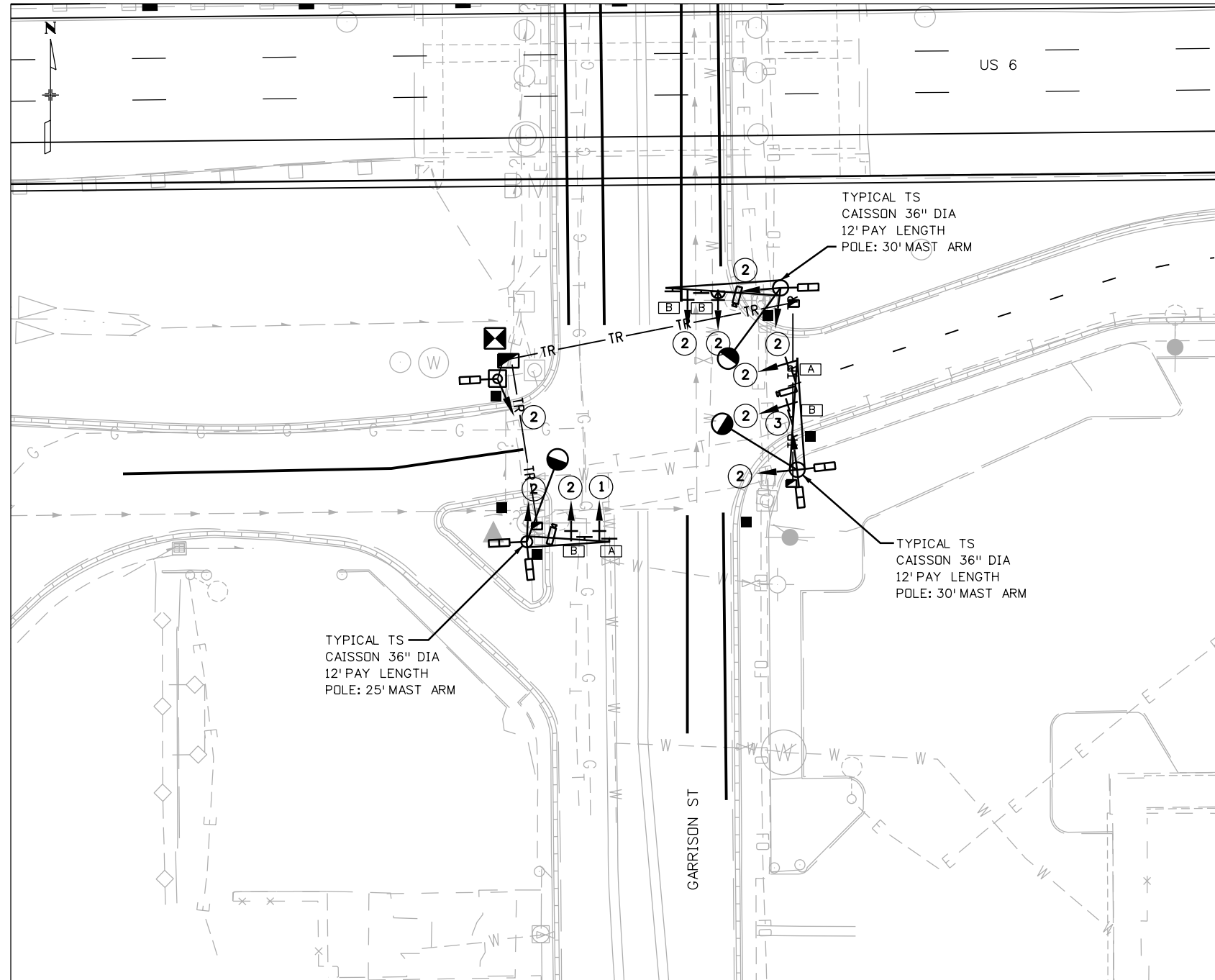
Region 1 Traffic and Safety LR

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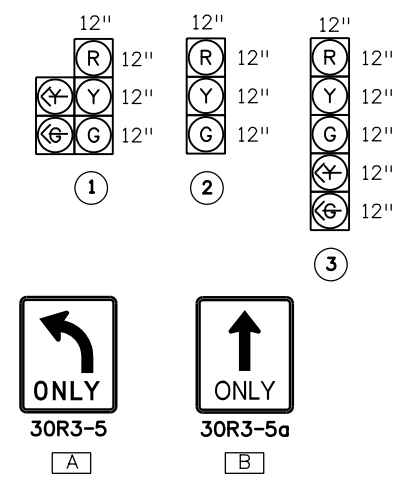
PROPOSED SIGNAL PLAN WB 6TH & GARRISON			
Designer:	JCN	Structure	
Detailer:	JCN	Numbers	
Sheet Subset:	TRAFFIC	Subset Sheets:	of

Project No./Code
Project Number
19478
Sheet Number 54

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SIGNAL FACE DETAILS



PROPOSED SIGNAL LEGEND

- CONTROLLER CABINET
- SIGNAL FACE WITHOUT BACKPLATE
- SIGNAL FACE WITH BACKPLATE
- FIRE UNIT
- PED PUSH BUTTON & POST ASSM
- PEDESTRIAN SIGNAL FACE
- SIGNAL POLE MAST ARM
- SIGNAL POLE LUMINAIRE
- PULL BOX TYPE C
- PULL BOX TYPE A
- MAST ARM SIGN
- DETECTION CAMERA
- PEDESTAL POLE

TABULATION OF SIGNAL ITEMS

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
202-00828	REM OF TRAFFIC SIGNAL EQUIPMENT	LS	.5
210-00815	RESET SIGN PANEL	EA	3
210-00866	RESET FIRE PRE-EMPT	EA	1
503-00036	DRILLED CAISSON 36"	LF	36
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF	388
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	200
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	54
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	36
613-10000	WIRING	LS	.5
613-70250	LUMIN HPS (250 W)	EA	3
614-00011	SIGN PANEL (CL I)	SF	45
614-70150	PED SIGNAL FACE (16)(COUNTDOWN)	EA	6
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EA	10
614-70448	TRAFFIC SIGNAL FACE (12-12-12-12-12)	EA	2
614-72863	PED PUSH BUTTON & POST ASSM	EA	6
614-72886	INTERSECTION DETECT SYS (CAMERA)	EA	3
614-81125	SIGNAL-LIGHT POLE STEEL (1-25 FT)	EA	1
614-81130	SIGNAL-LIGHT POLE STEEL (1-30 FT)	EA	2
614-86246	CONTROLLER (TYPE 170E-HC11)	EA	1
614-86800	UNINTERRUPT POWER SUPPLY	EA	1

ALL QUANTITIES CARRIED FORWARD TO THE TABULATION OF TRAFFIC ENGINEERING ITEMS

- NOTES**
- ALL EXISTING MAST ARM SIGNS SHALL BE RESET TO NEW MAST ARMS.



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2000 South Holly Street
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Phone: 303-757-9511 FAX: 303-757-9907

Region 1 Traffic and Safety LR

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PROPOSED SIGNAL PLAN EB 6TH & GARRISON			
Designer:	JCN	Structure	
Detailer:	JCN	Numbers	
Sheet Subset:	TRAFFIC	Subset Sheets:	of

Project No./Code
Project Number
19478
Sheet Number 55

UTILITY LEGEND

-- W --- W ---	EXISTING WATER	--TV---TV---	EXISTING UG TV
--W?---W?---	EXISTING WATER (UNSURVEYED)	--OH---TV---	EXISTING OH TV
-- G --- G ---	EXISTING GAS	--TV?---TV?---	EXISTING TV (UNSURVEYED)
--G?---G?---	EXISTING GAS (UNSURVEYED)	--->--->---	EXISTING SANITARY SEWER
-- E --- E ---	EXISTING UG ELECTRIC	←---?←---?←	EXISTING SANITARY SEWER (UNSURVEYED)
-- E --- OH ---	EXISTING OH ELECTRIC	--->--->---	EXISTING STORM SEWER
--E?---E?---	EXISTING ELECTRIC (UNSURVEYED)	←-?-←-?-←	EXISTING STORM SEWER (UNSURVEYED)
-- T --- T ---	EXISTING UG TELEPHONE	>-----<	EXISTING PIPE WITH END SECTION
-- T --- OH ---	EXISTING OH TELEPHONE	-?-?-?-?	EXISTING PIPE (MISCELLANEOUS)
--T?---T?---	EXISTING TELEPHONE (UNSURVEYED)	-----▲	PROPOSED STORM SEWER
--FO---FO---	EXISTING UG FIBER OPTIC	-----	PROPOSED DITCH
>	EXISTING FLARED END SECTION	▲	PROPOSED FLARED END SECTION
ST	EXISTING STORM MANHOLE	⊙	EXISTING GAS MISCELLANEOUS
⊙	PROPOSED STORM MANHOLE	G	EXISTING GAS MANHOLE
□ ■ ▨	EXISTING STORM INLET	⊙	EXISTING STREET LIGHT
▣ ▣ ▣	PROPOSED STORM INLET	□	EXISTING ELEC PEDESTAL OR PULL BOX
ST	EXISTING STORM MISCELLANEOUS	⊕	EXISTING ELECTRICAL MISCELLANEOUS
SA	EXISTING SANITARY MANHOLE	●	EXISTING POWER POLE
∞	EXISTING WATER VALVE	↓	EXISTING GUY POST
W	EXISTING WATER MANHOLE	↓	EXISTING GUY WIRE
□	EXISTING WATER METER	□ □	EXISTING VAULT OR TRANSFORMER
⊕	EXISTING FIRE HYDRANT	⊕	EXISTING TELEPHONE MANHOLE
⊙	EXISTING GAS GALVE	□	EXISTING TELEPHONE MISCELLANEOUS
⊕	EXISTING GAS METER	TV	EXISTING TV MISCELLANEOUS

UTILITY CONTACT LIST

UTILITY COMPANY	CONTACT NAME/EMAIL ADDRESS	TELEPHONE
AT&T 46713 SUNSET VIEW WAY PARKER, CO 80138	TOM JAKSE TJAKSE@CLEARWATERCONSULTING.NET	720-289-5471
CENTURYLINK (CTL) 5325 ZUNI ST., STE. 728 DENVER, CO 80221	JODIE LEONARD JODIE.LEONARD@CENTURYLINK.COM	303-451-2379
CITY OF LAKEWOOD (COL)-SANITARY 850 PARFET ST. LAKEWOOD, CO 80215-5599	DUANE RIVARD DUARIV@LAKEWOOD.ORG	303-987-7965
CITY OF LAKEWOOD (COL)-STORM 850 PARFET ST. LAKEWOOD, CO 80215-5599	A. J. SANDOVAL ARTSAN@LAKEWOOD.ORG	303-987-7956
CITY OF LAKEWOOD (COL)-TRAFFIC 480 S. ALLISON PARKWAY LAKEWOOD, CO 80226	JOHN PADON JOHPAD@LAKEWOOD.ORG	303-987-7986
COLORADO DEPT. OF TRANSPORTATION (CDOT) ITS 425 C CORPORATE CIRCLE, ROOM 156 GOLDEN, CO 80401	JILL SCOTT JILL.SCOTT@STATE.CO.US	303-512-5805
COMCAST COMMUNICATIONS (COMCAST) 6850 S. TUCSON WAY ENGLEWOOD, CO 80112	BRIAN JONES BRIAN_JONES3@CABLE.COMCAST.NET	720-951-3078
CONSOLIDATED MUTUAL WATER (CMW) 12700 W. 27TH AVE. LAKEWOOD, CO 80215	ANDY ROGERS AROGERS@CMWC.NET	303-238-0451
DENVER WATER DEPARTMENT (DWD) 1600 W. 12TH AVE. DENVER, CO 80204	DON WYMAN DON.WYMAN@DENVERWATER.ORG	303-628-6628
XCEL ENERGY-ELECTRIC DISTRIBUTION TBD TBD	TBD TBD@XCELENERGY.COM	TBD
XCEL ENERGY-GAS 1123 W. 3RD AVE. DENVER, CO 80223	DUANE PURCELL DUANE.PURCELL@XCELENERGY.COM	303-434-8082

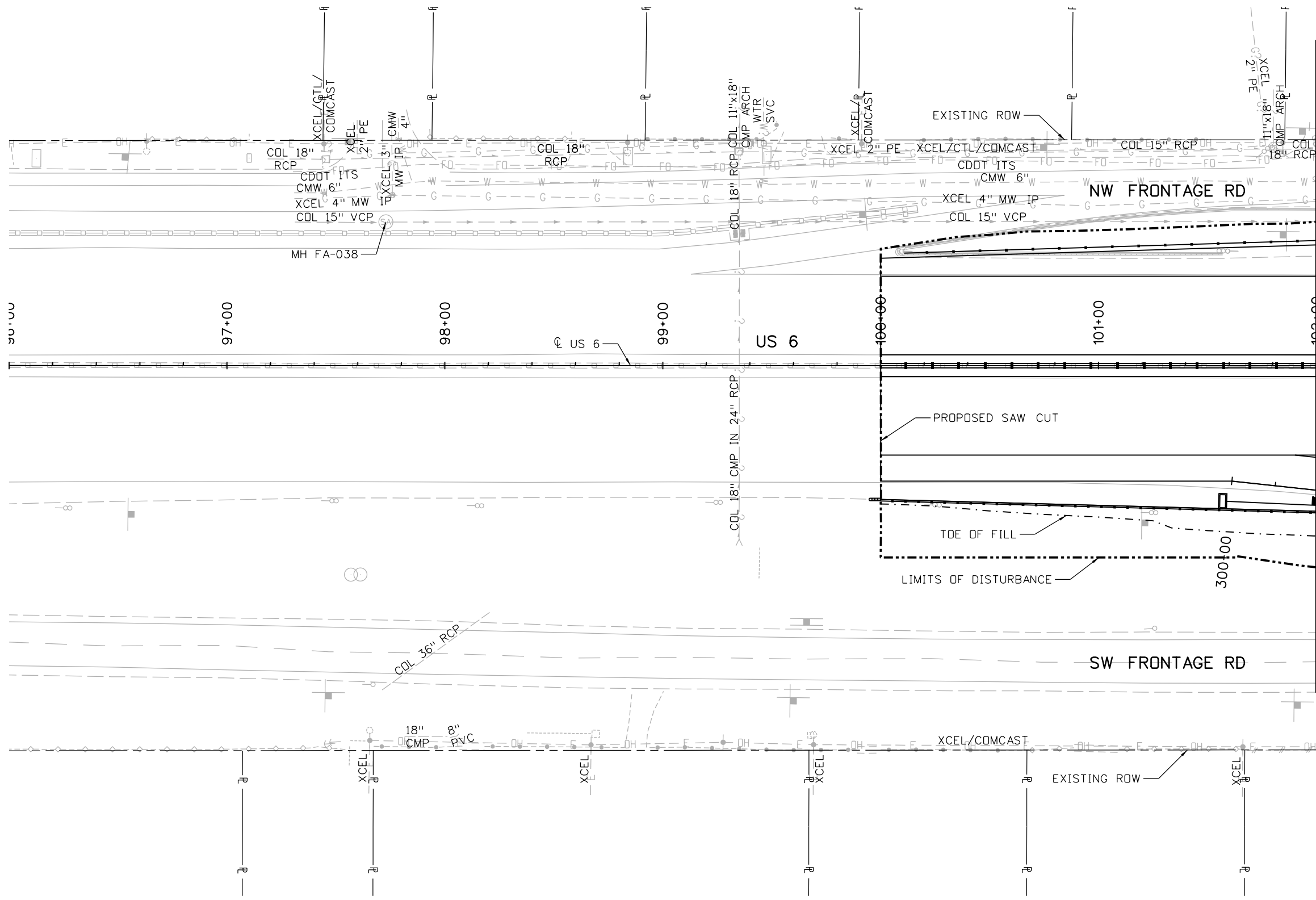
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Print Date: 7/2/2014		Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	EXISTING UTILITY PLAN US 6 UTILITY CONTACTS & LEGEND		Project No./Code
File Name: 19478-UTILGEN-01.dgn						FBR 0063-046
Horiz. Scale: 1:50 Vert. Scale:				Unit Information Unit Leader	Designer: SEM Structure Numbers Detailer: SEM	19478
				Sheet Subset: UTILITY Subset Sheets: U1 of 6	Sheet Number 56	

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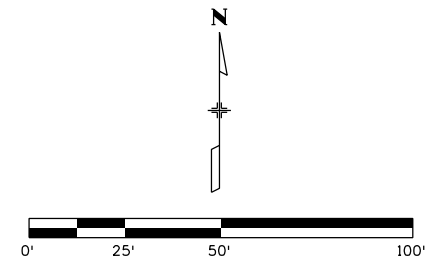
- UTILITIES WERE PLOTTED FROM THE BEST AVAILABLE INFORMATION OBTAINED FROM UTILITY OWNERS. HOWEVER, GOODBEE AND ASSOCIATES, INC. MAKES NO GUARANTEE AS TO THE ACCURACY AND COMPLETENESS OF THE UTILITIES SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION, SIZE, AND MATERIAL OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CALL THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 OR 1-800-922-1987 AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, BEFORE ANY EXCAVATION OR GRADING OPERATIONS TO REQUEST EXACT FIELD LOCATIONS OF THE MEMBER UTILITIES. ALL OTHER UNDERGROUND FACILITIES, INCLUDING UTILITY SERVICE LATERALS, SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.
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- SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

MATCH LINE STA. 102+00



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Horiz. Scale: 1:50 Vert. Scale:									Region 1				KPB		STA 96+00 TO STA 102+00		19478	
Unit Information Unit Leader									Region 1				KPB		Subset Sheets: U2 of 6		Sheet Number 57	
GOODBEE & ASSOCIATES, INC. 13809 E. SHELTON ROAD CENTENNIAL, CO 80112 PHONE 303-746-3633 FAX 303-746-3633																		

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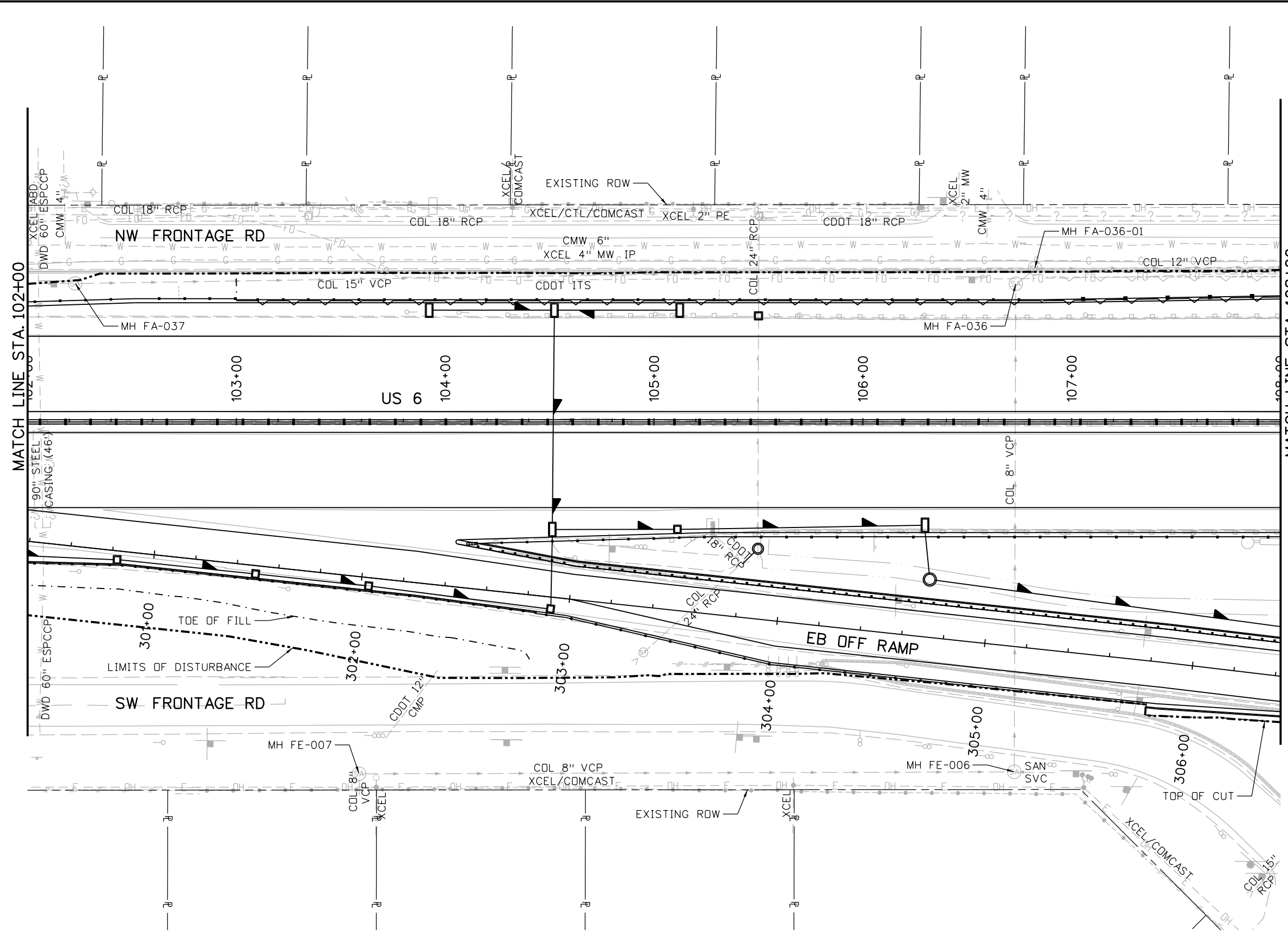


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3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

4. THE EXISTING DWD 60" ESPCCP WILL NOT TOLERATE MUCH DISTURBANCE BEYOND THE CASING. EXTRA CARE MUST BE TAKEN TO PROTECT THE PIPE IN PLACE WHEN WORKING OVER AND AROUND IT (I.E. DURING POTHOLING AND FILL OPERATIONS, AT PROPOSED PIPE CROSSINGS, WHEN PLACING PROPOSED GUARDRAIL, ETC).



MATCH LINE STA. 108+00

MATCH LINE STA. 102+00



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File Name: 19478-UTILPL-02.dgn	
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Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425 B Corporate Circle
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Region 1 KPB

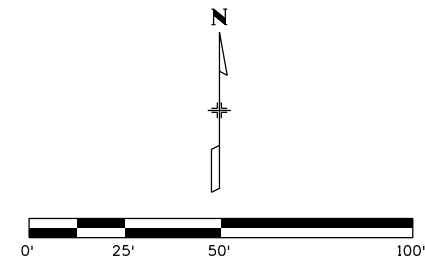
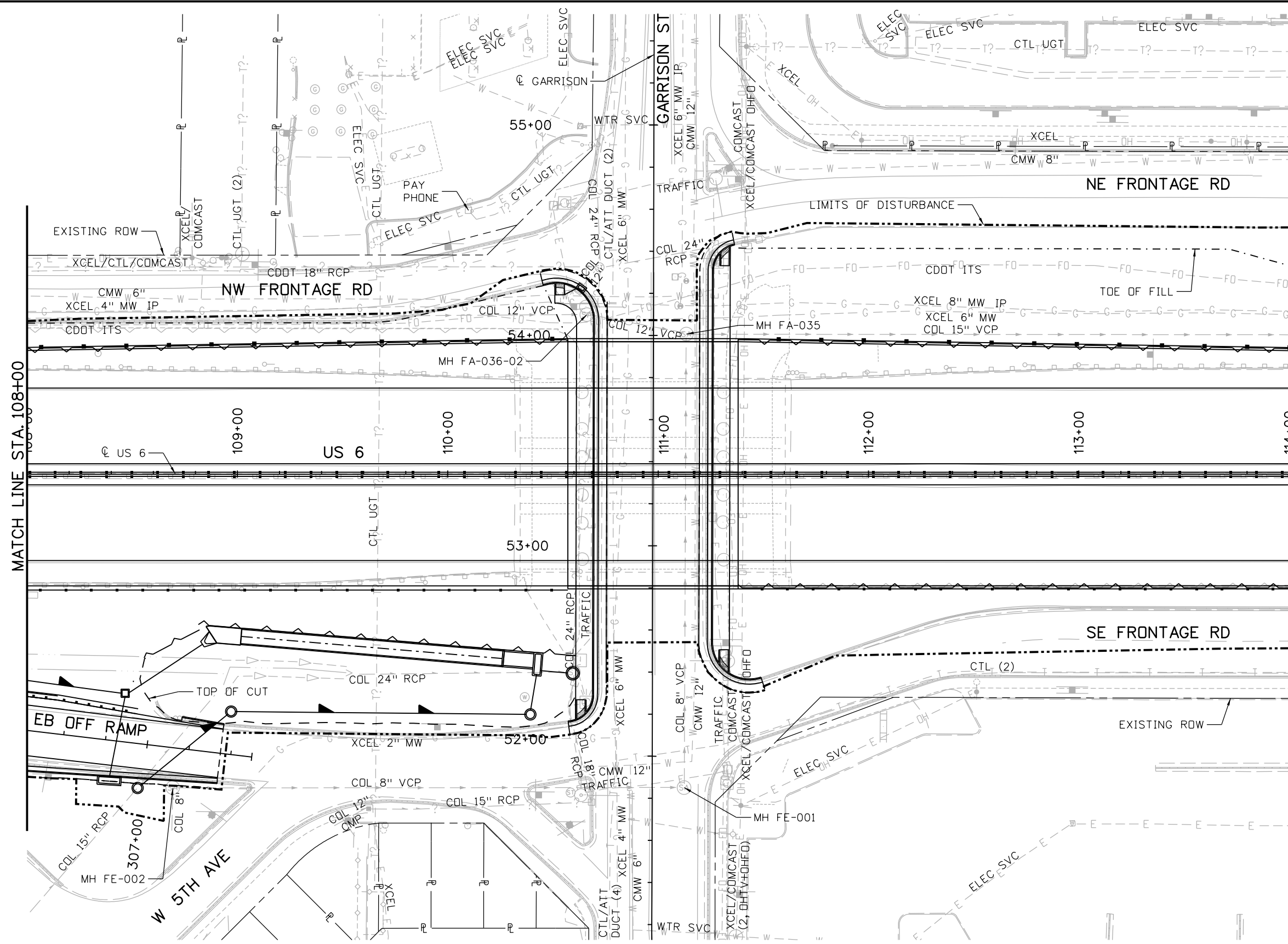
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US 6			
STA 102+00 TO STA 108+00			
Designer:	SEM	Structure	
Detailer:	SEM	Numbers	
Sheet Subset:	UTILITY	Subset Sheets:	U3 of 6

Project No./Code	FBR 0063-046
	19478
Sheet Number	58

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3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

MATCH LINE STA. 108+00

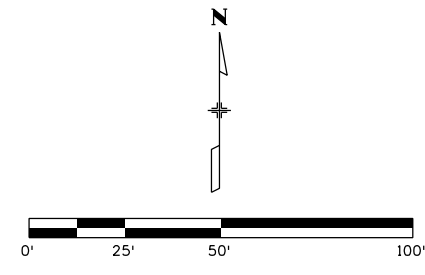
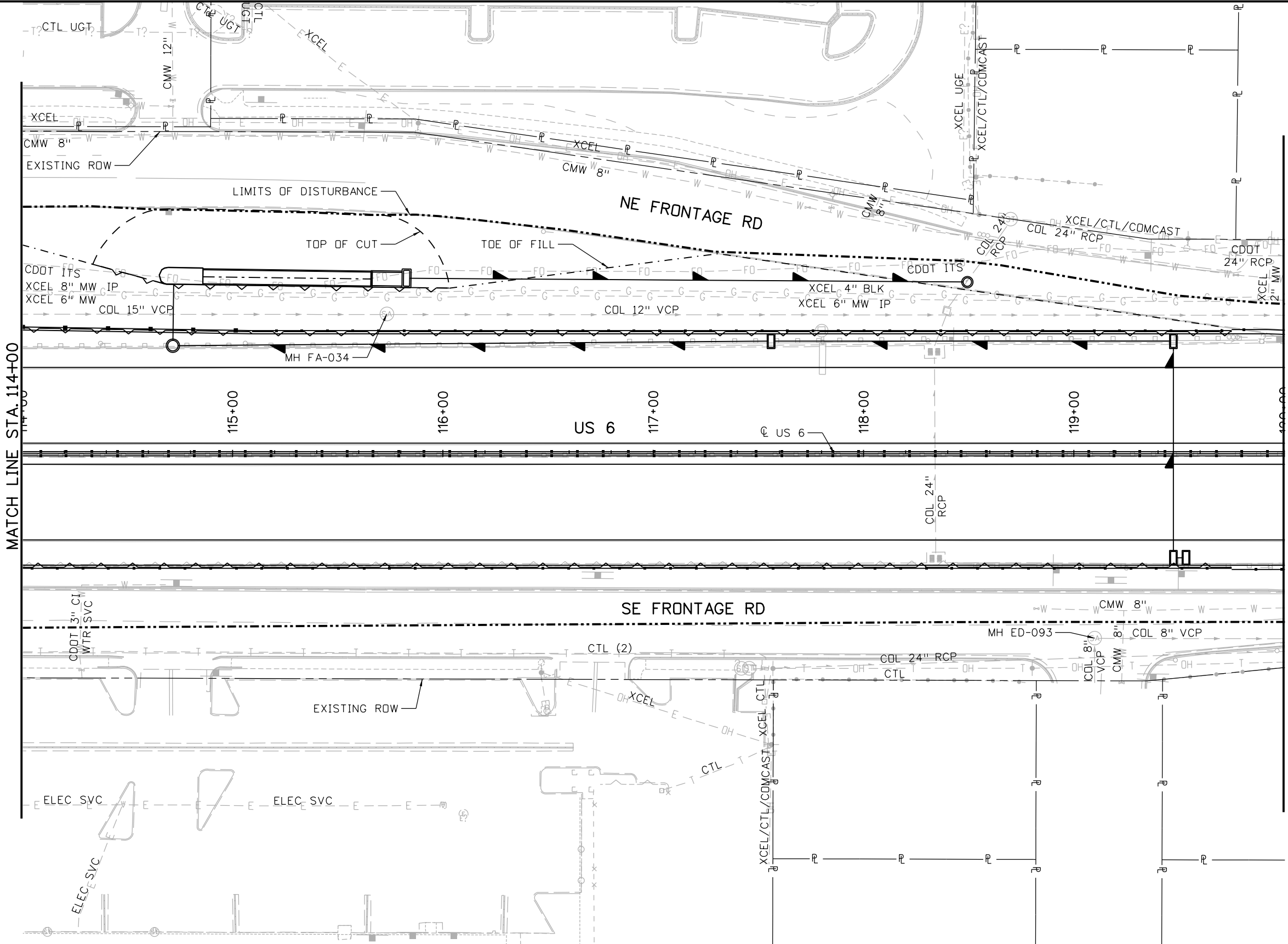
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Date:	Comments			Init.																						
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3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.



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Unit Information	Unit Leader

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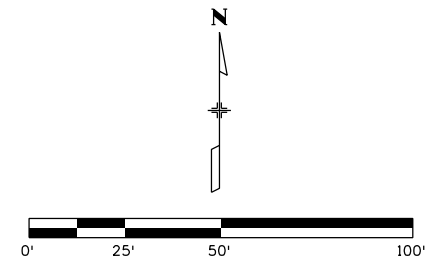
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 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

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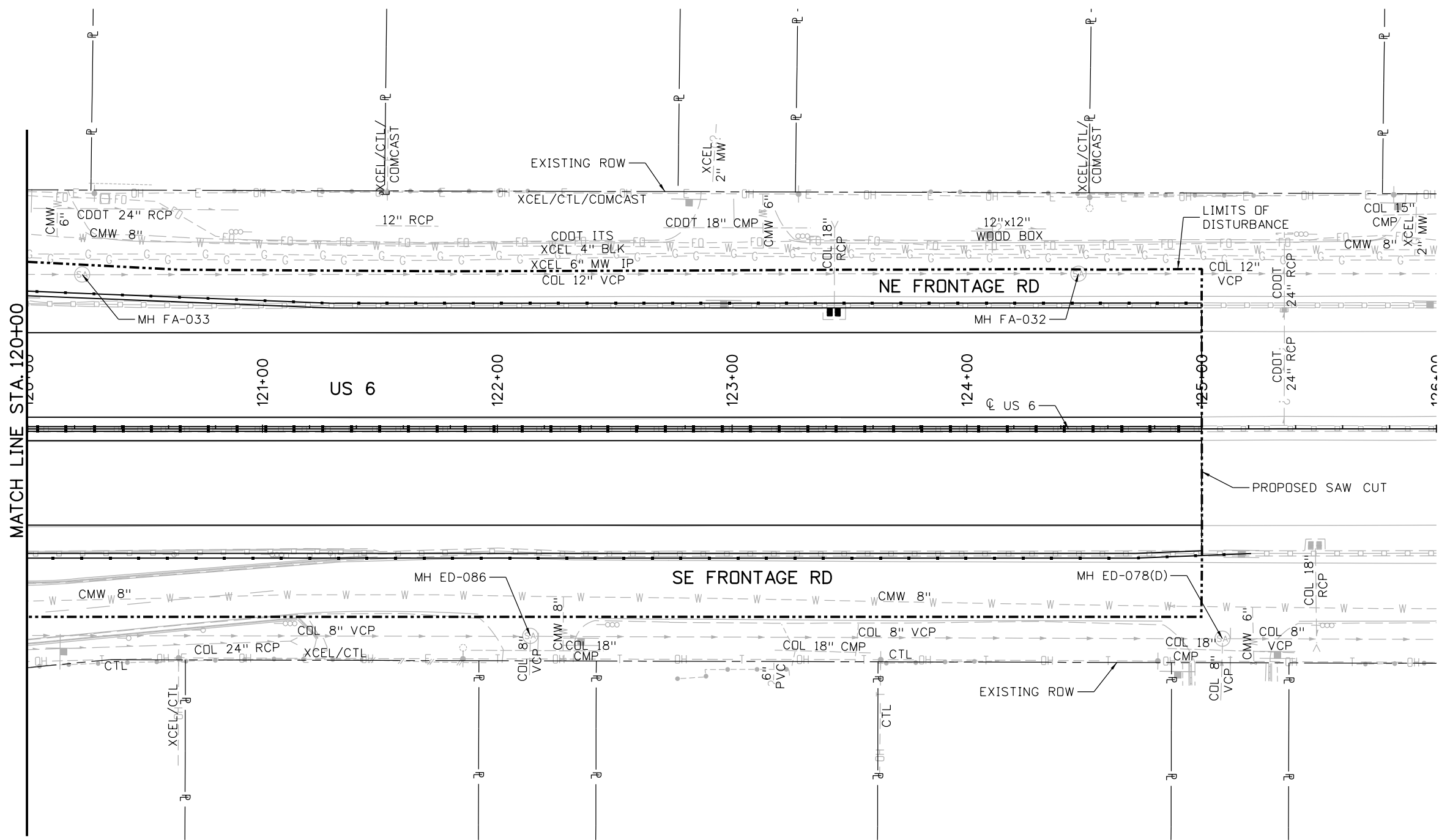
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19478
Sheet Number 60

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MATCH LINE STA. 120+00



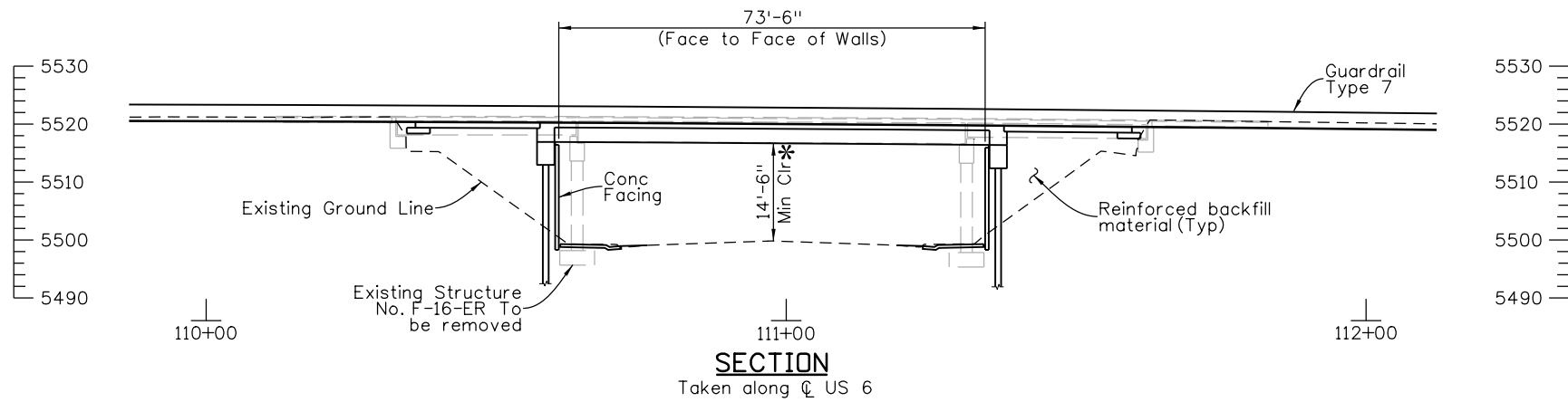
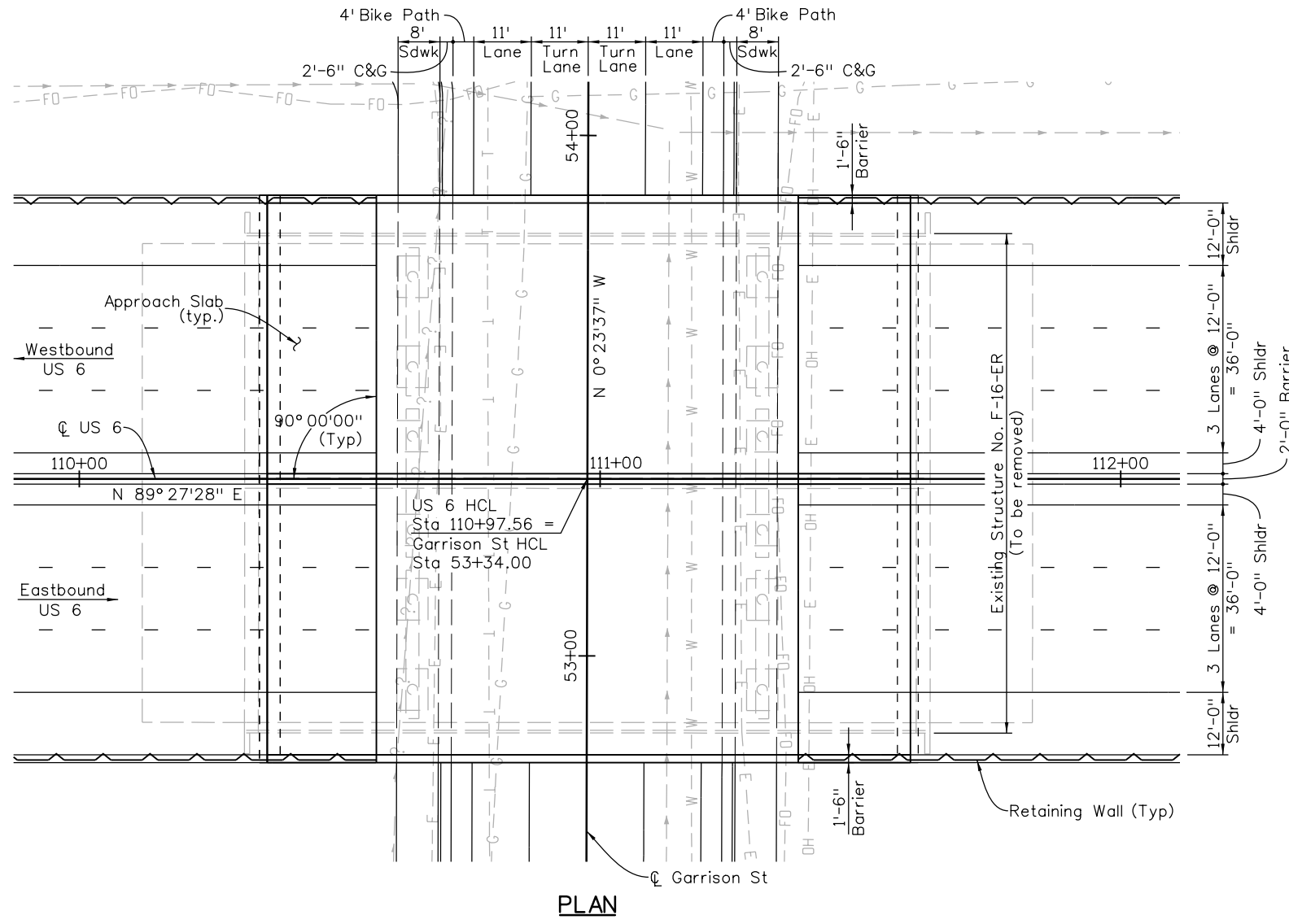
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Unit Information Unit Leader									Region 1					Subset Sheets: U6 of 6	
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Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

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*Required vertical clearance from Garrison St roadway and sidewalks.

Print Date: 6/13/2014
File Name: 19478-BRIDGE-GL01.dgn
Horiz. Scale: 1:30 Vert. Scale: _
Staff Bridge Branch: Unit 0224 Unit Leader: AJP

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Region 1 **KPB**

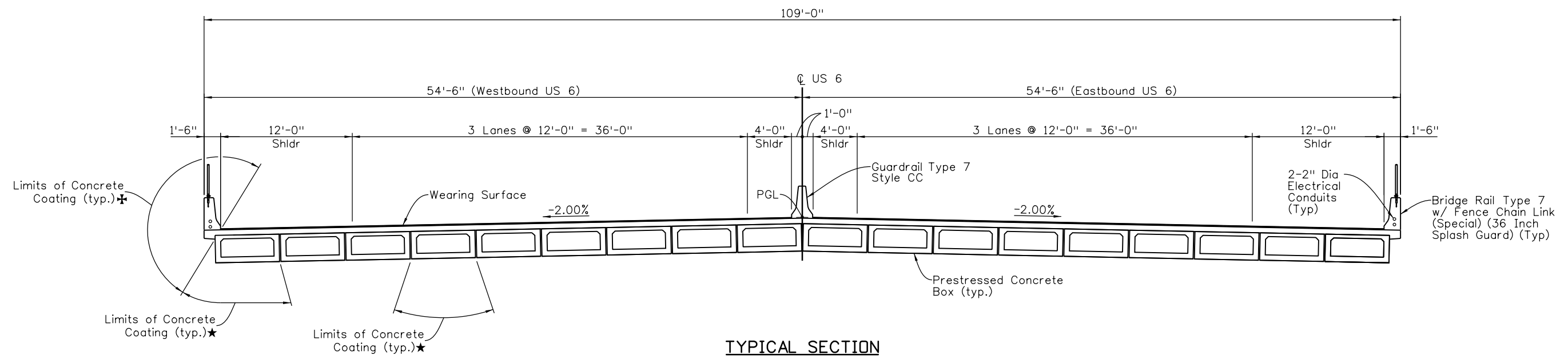
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Detailer:			
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Project No./Code
FBR 0063-046
19478
Sheet Number 62

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TYPICAL SECTION

KEY NOTES

- ✦ Limits of Concrete Coating, Federal Standard 595C Color No. 32630 (Tan), limits apply to all exposed surfaces of abutments, abutment diaphragms, wingwalls, and piers 1'-0" below finished grade.
- ★ Limits of Concrete Coating, Federal Standard 595C Color No. 31090 (Brown).

Print Date: 7/31/2014
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Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
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Colorado Department of Transportation

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Phone: 720-497-6954 FAX: 720-497-6951

Region 1 **KPB**

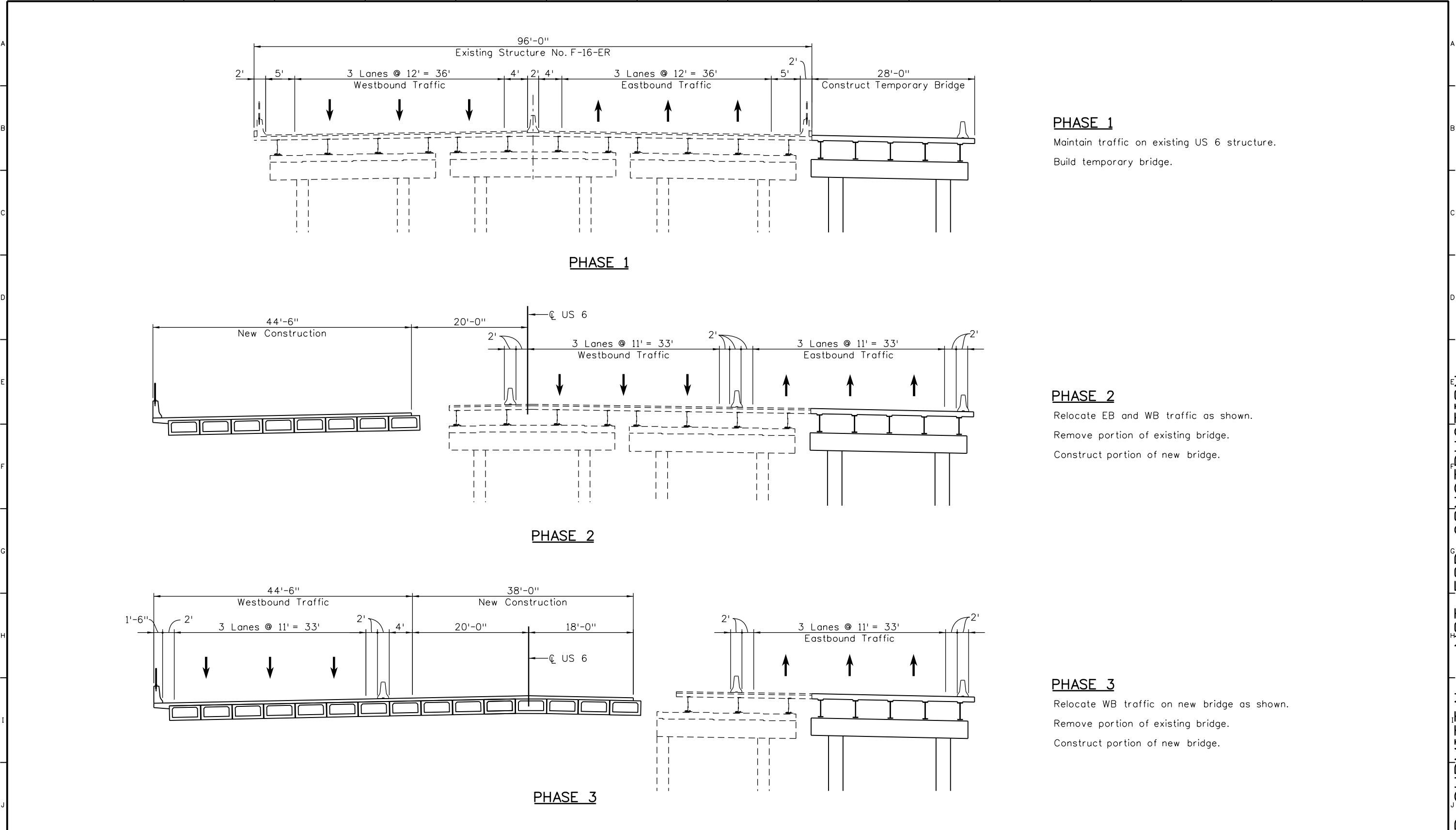
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19478
Sheet Number 63

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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By
X	X	X	X	X	X





PHASE 1
 Maintain traffic on existing US 6 structure.
 Build temporary bridge.

PHASE 2
 Relocate EB and WB traffic as shown.
 Remove portion of existing bridge.
 Construct portion of new bridge.

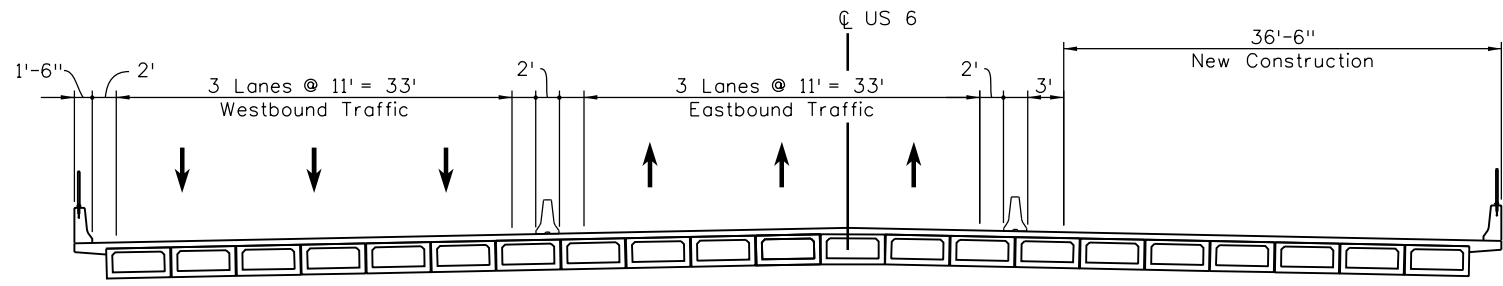
PHASE 3
 Relocate WB traffic on new bridge as shown.
 Remove portion of existing bridge.
 Construct portion of new bridge.

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File Name: 19478-BRIDGE-ConstSeq01.dgn	Date:	Comments	Init.	 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951		No Revisions:		1 OF 2 Designer: R. Luebbers Detailer: J. Richardson		FBR 0063-046	
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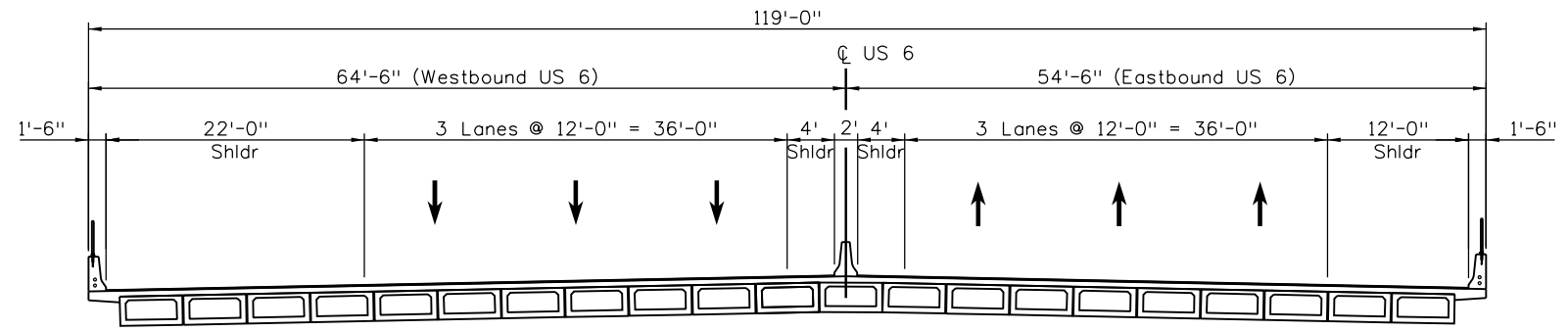
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PHASE 4

PHASE 4

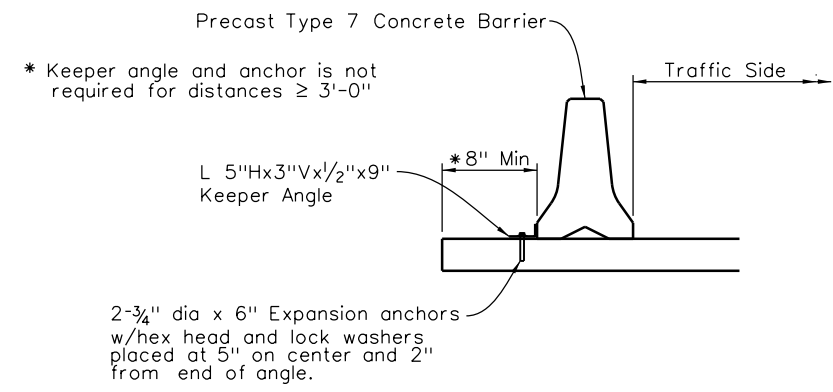
Relocate EB traffic on new bridge as shown.
 Remove remaining portion of existing bridge and temporary bridge.
 Construct remaining portion of new bridge.



FINAL CONFIGURATION

FINAL CONFIGURATION

Relocate traffic to final configuration as shown.
 Place Guardrail Type 7 at \mathcal{C} of US 6.



NOTES:

Provide a minimum of 2 keeper angles per barrier. Space keeper angles 2'-6" from each end of each 10' precast barrier section.
 Expansion anchors shall be approved by the Engineer prior to installation.
 After expansion anchors are removed, the remaining holes shall be filled with non-shrink grout.
 The cost for angles, expansion anchors, non-shrink grout, epoxy etc. and all work necessary to install these items shall be included in the cost of the work unless noted otherwise. See Roadway Plans.

TEMPORARY CONCRETE BARRIER DETAILS

Print Date: 7/2/2014
File Name: 19478-BRIDGE-ConstSeq02.dgn
Horiz. Scale: 1:16 Vert. Scale:
Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

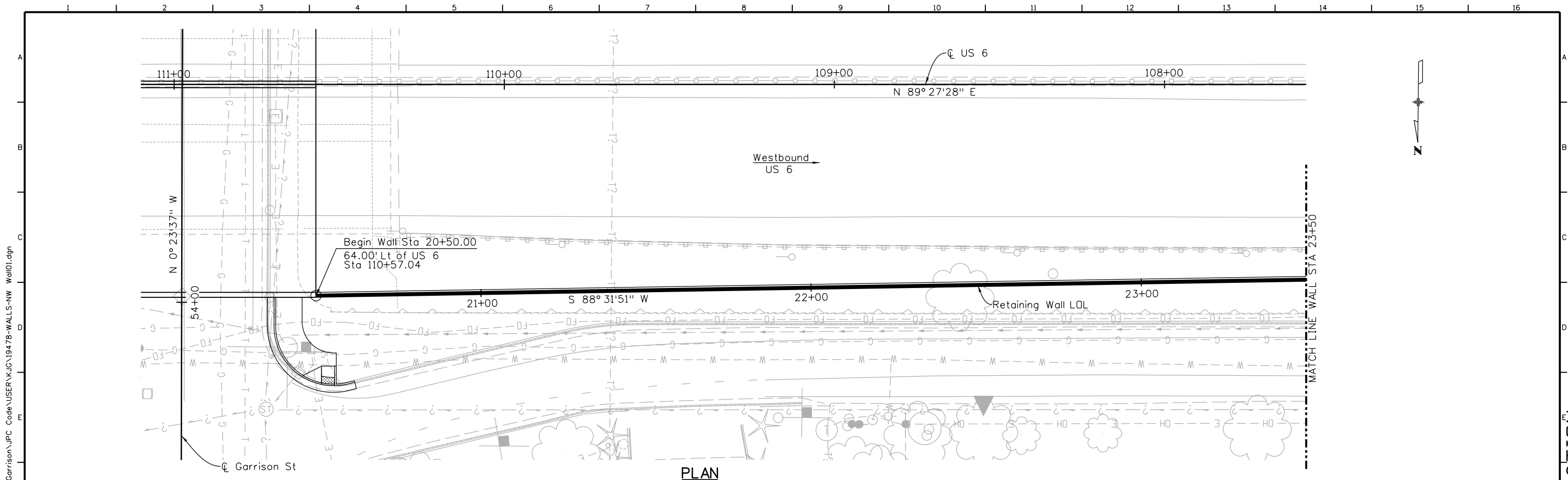
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

As Constructed
No Revisions:
Revised:
Void:

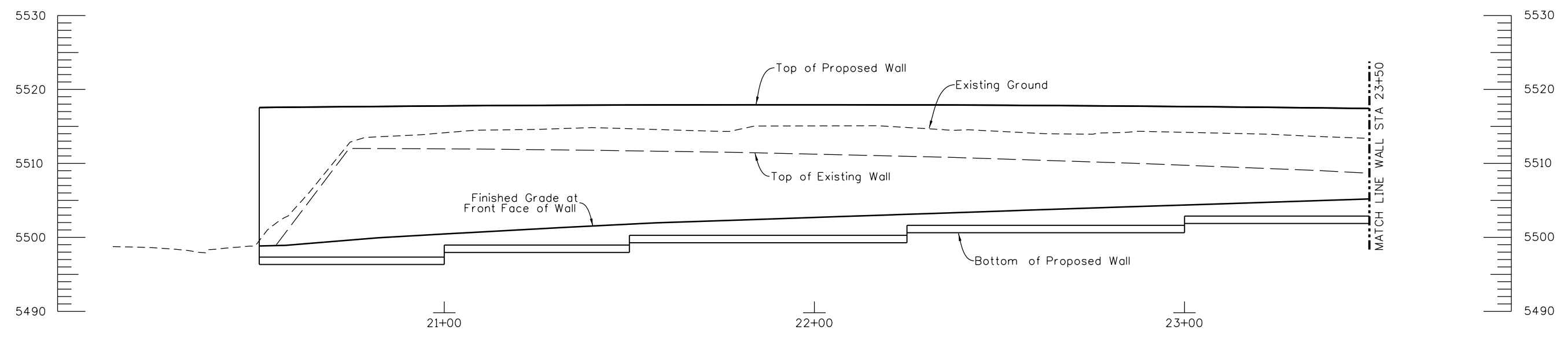
CONSTRUCTION PHASING			
2 OF 2			
Designer: R. Luebbers	Structure Numbers	F-16-EW	
Detailer: J. Richardson			
Sheet Subset: Bridge	Subset Sheets: B4 of 4		

Project No./Code
FBR 0063-046
19478
Sheet Number 65

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PLAN



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X

Print Date: 7/2/2014
 File Name: 19478-WALLS-NW Wall01.dgn
 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 KP B

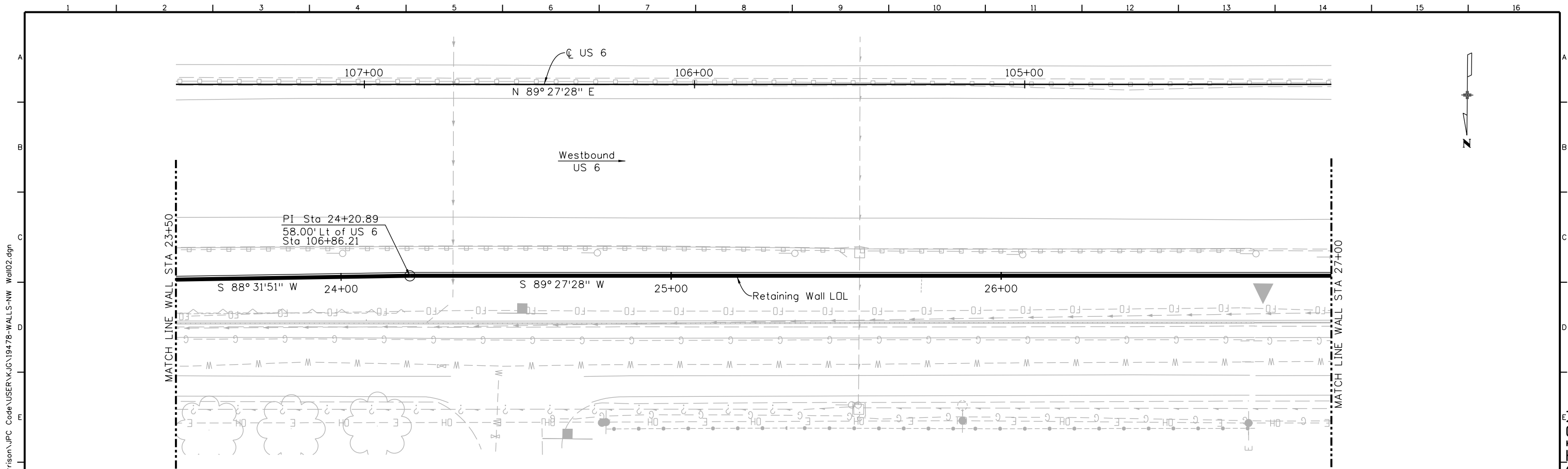
As Constructed
 No Revisions:
 Revised:
 Void:

NORTHWEST RETAINING WALL
 GENERAL LAYOUT
 1 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls
 Structure Numbers:
 Subset Sheets: W1 of 11

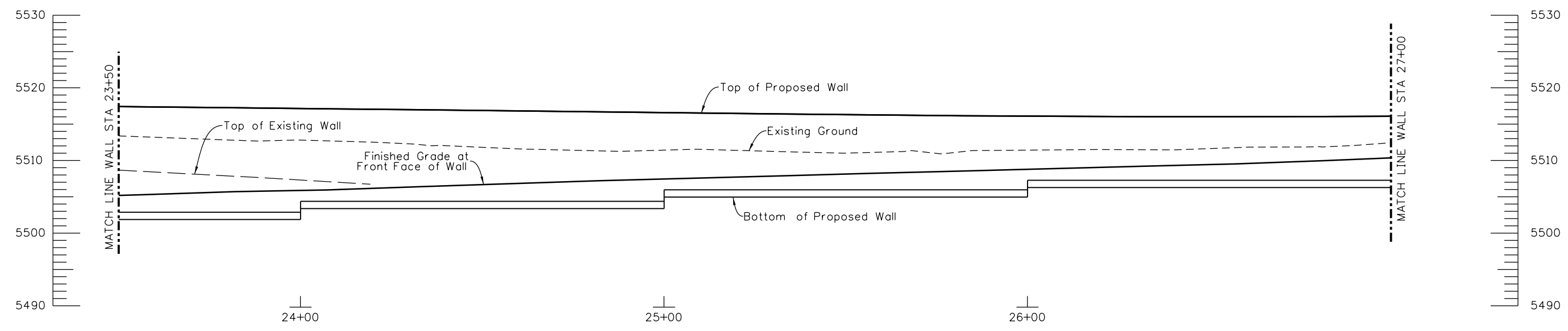
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 FBR 0063-046
 19478
 Sheet Number 66

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PLAN



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X

Print Date: 7/2/2014
 File Name: 19478-WALLS-NW Wall02.dgn
 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 KP B

As Constructed
 No Revisions:
 Revised:
 Void:

NORTHWEST RETAINING WALL
 GENERAL LAYOUT
 2 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls
 Structure Numbers:
 Subset Sheets: W2 of 11

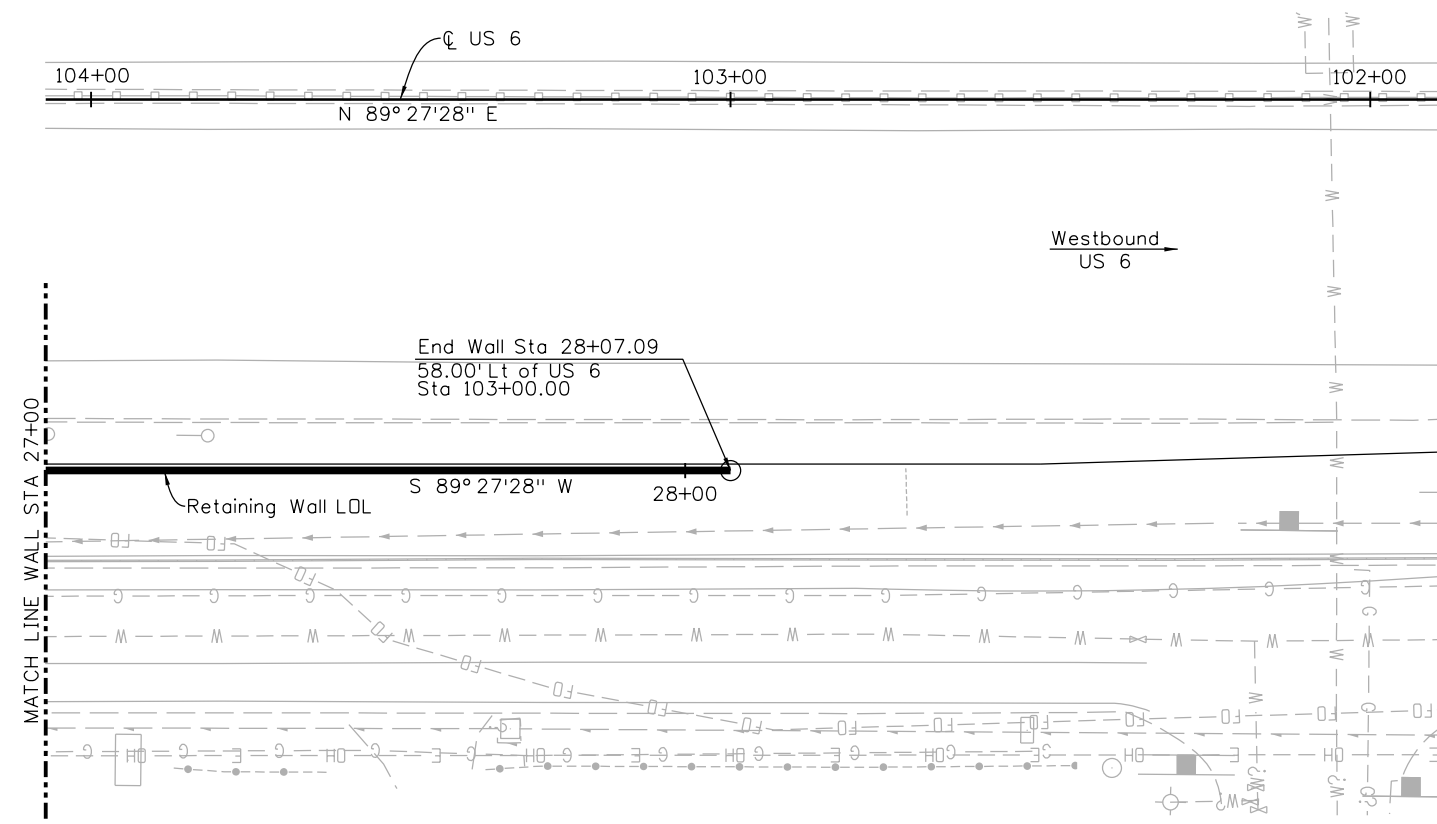
Project No./Code
 FBR 0063-046
 19478
 Sheet Number 67

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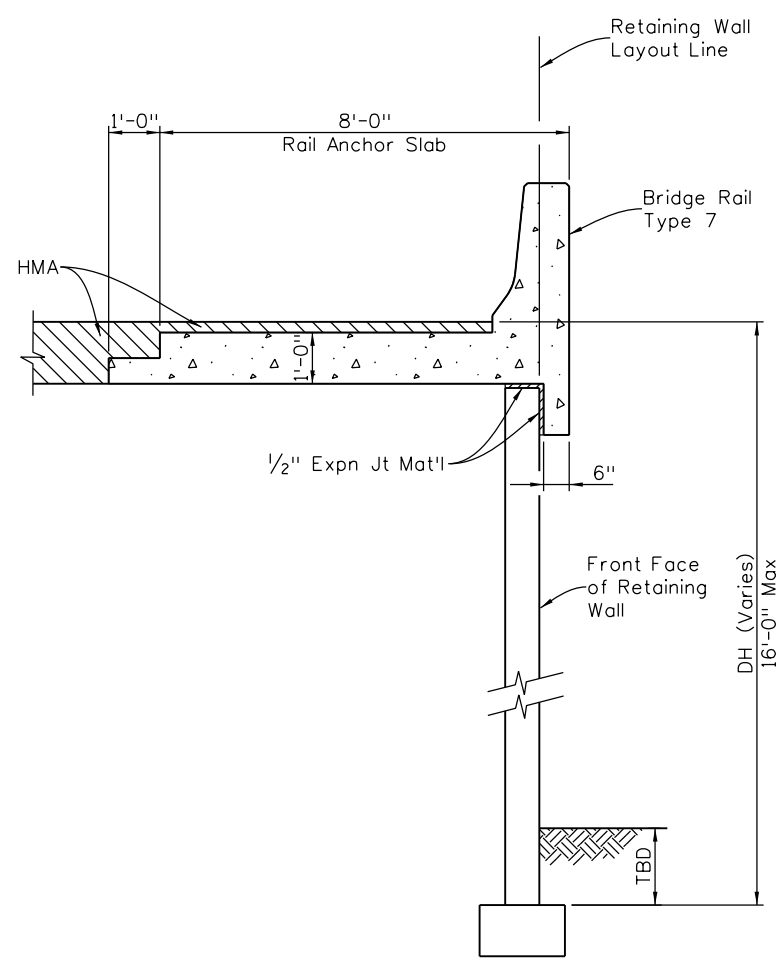
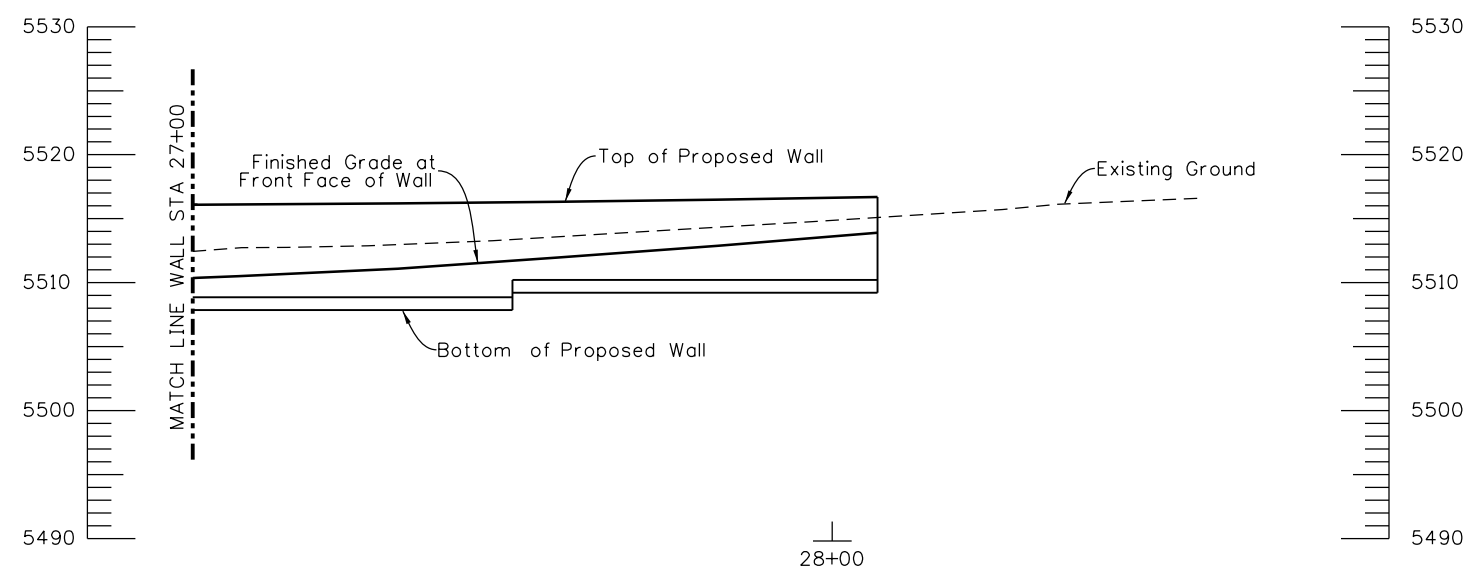
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X



PLAN



Print Date: 7/2/2014
 File Name: 19478-WALLS-NW Wall03.dgn
 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

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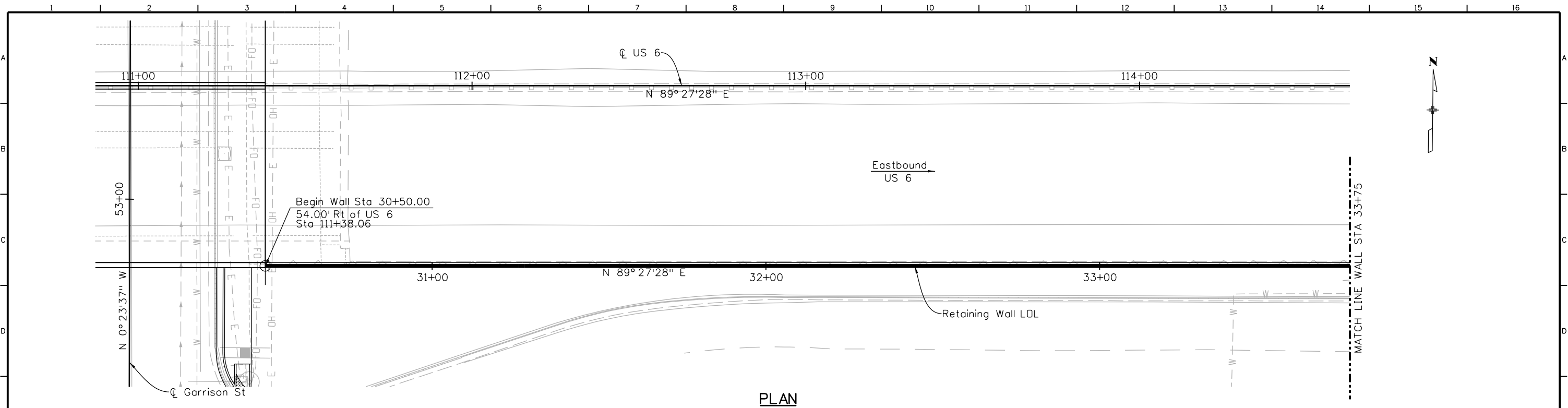
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GENERAL LAYOUT
3 OF 3
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 Detailer:
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Project No./Code
 FBR 0063-046
 19478
Sheet Number 68

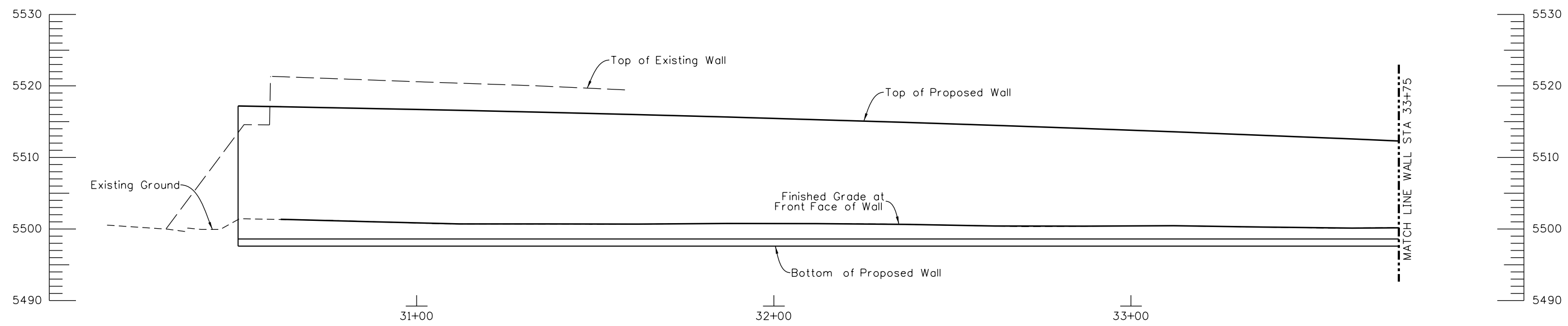
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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By	X	Checked By	X	Checked By	X



PLAN



ELEVATION

Print Date: 7/2/2014
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 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

As Constructed
 No Revisions:
 Revised:
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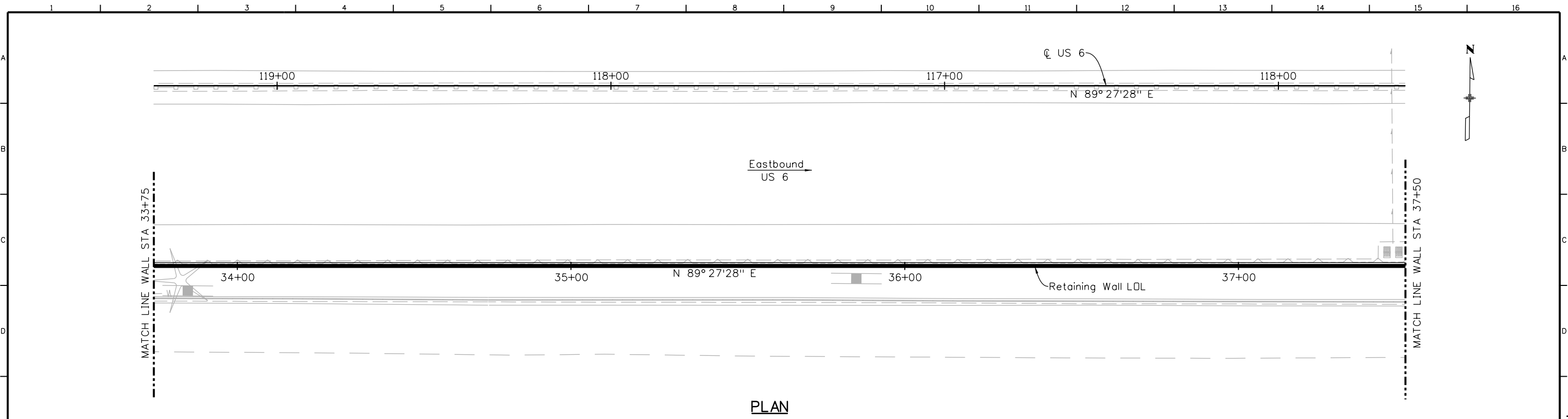
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GENERAL LAYOUT
1 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls Subset Sheets: W5 of 11

Project No./Code
 FBR 0063-046
 19478
Sheet Number 69

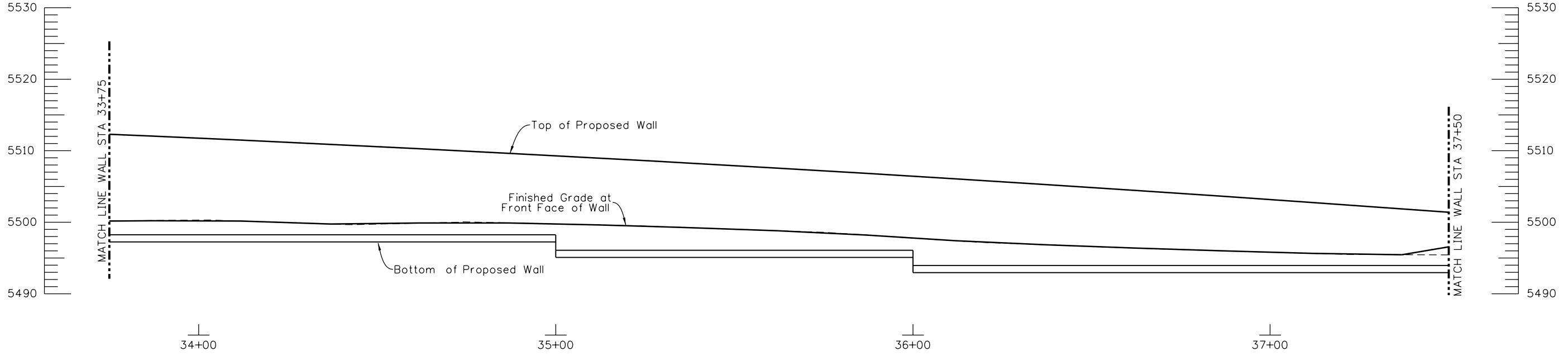
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Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X



PLAN



ELEVATION

Print Date: 7/2/2014
 File Name: 19478-WALLS-SE Wall02.dgn
 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
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 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

As Constructed
No Revisions:
Revised:
Void:

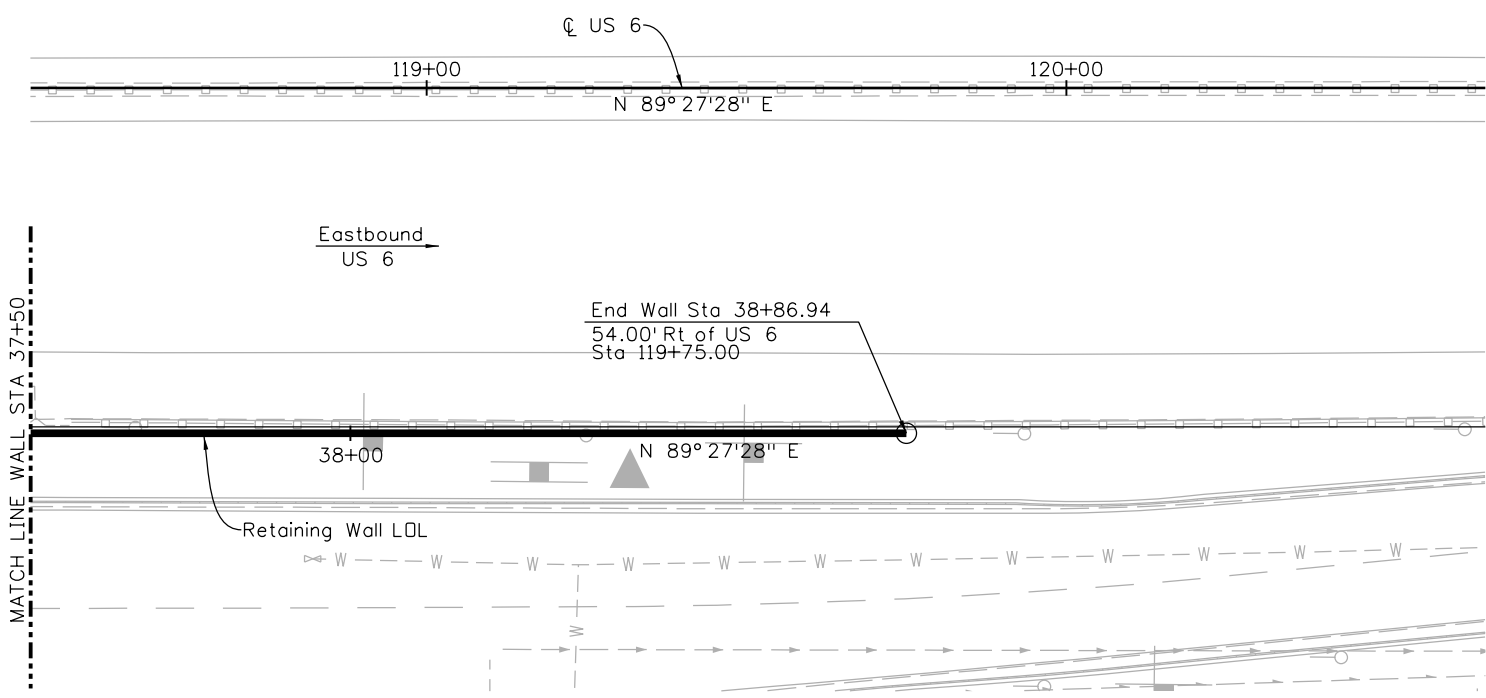
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GENERAL LAYOUT
2 OF 3

Designer:	Structure Numbers:
Detailer:	
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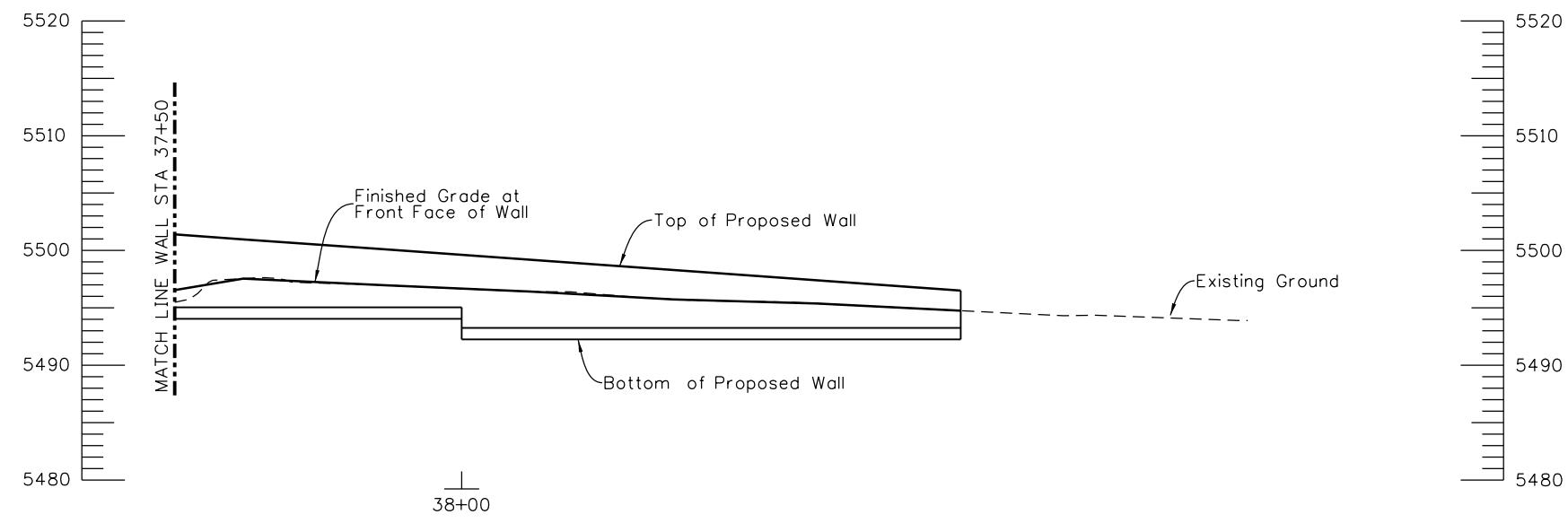
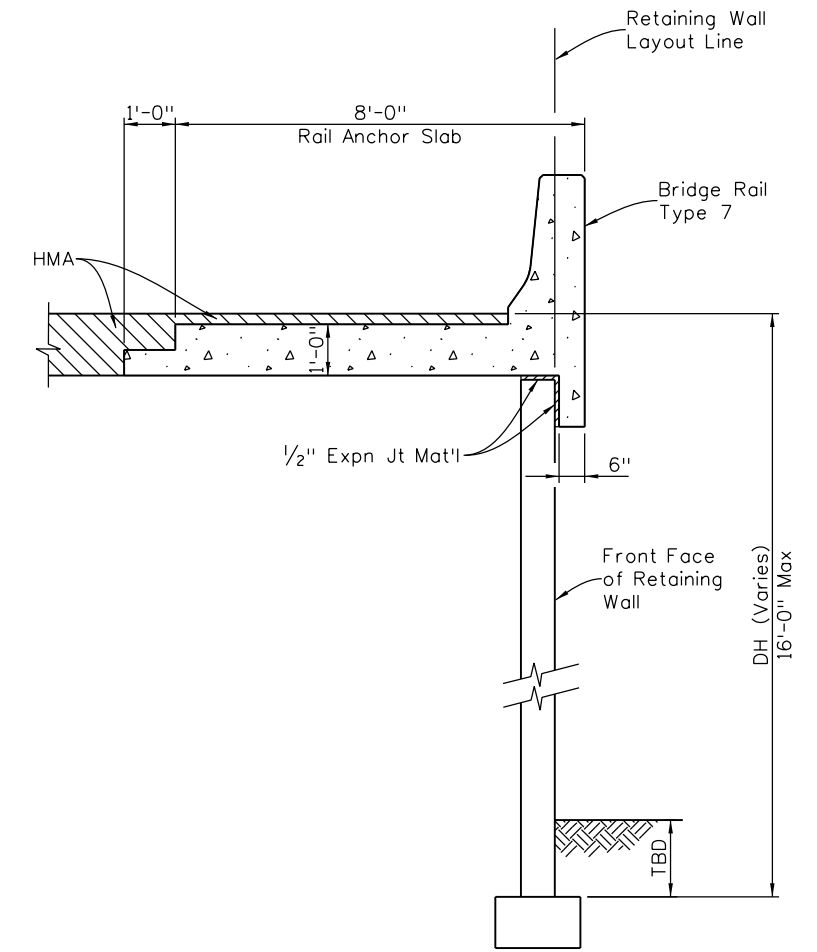
Project No./Code
FBR 0063-046
19478
Sheet Number 70

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PLAN



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X

Print Date: 7/2/2014
 File Name: 19478-WALLS-SE Wall03.dgn
 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 425 B Corporate Circle
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 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 KP B

As Constructed
 No Revisions:
 Revised:
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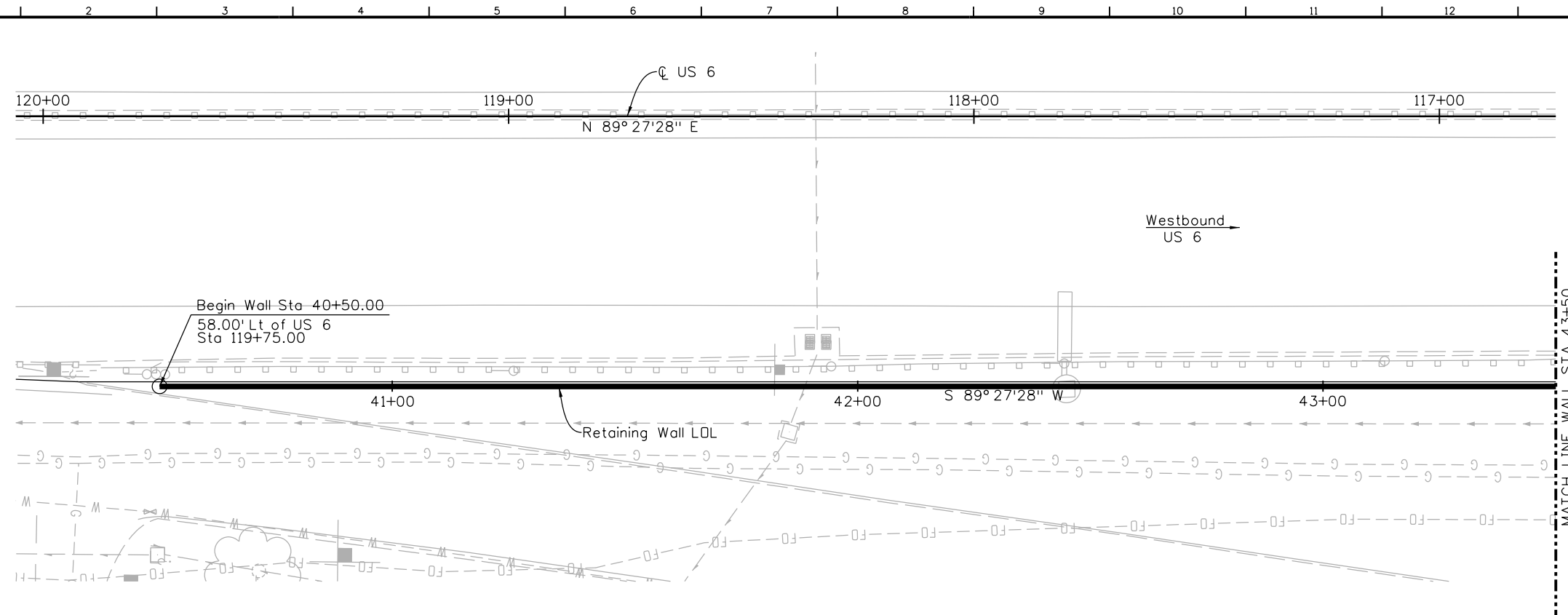
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 GENERAL LAYOUT
 3 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls
 Structure Numbers:
 Subset Sheets: W7 of 11

Project No./Code
 FBR 0063-046
 19478
 Sheet Number 71

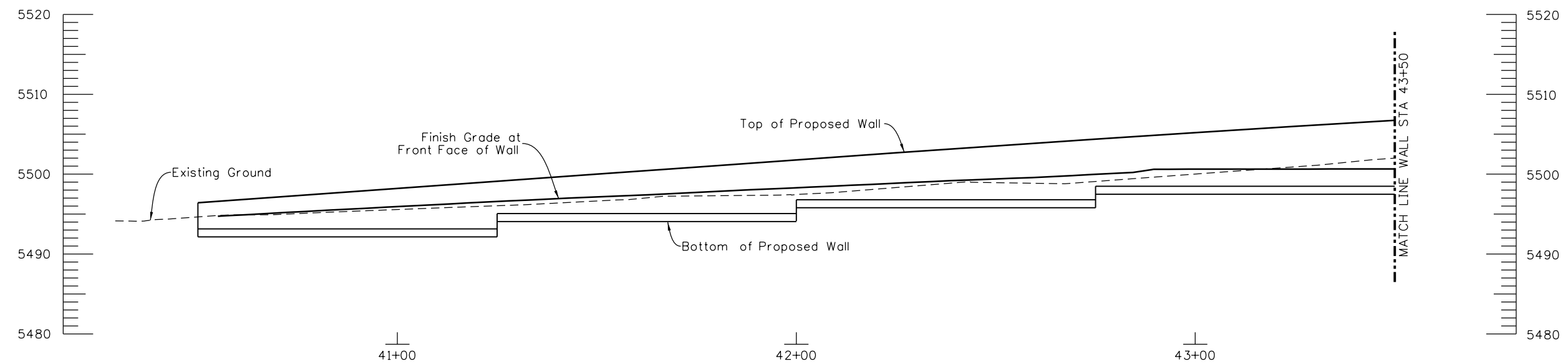
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PLAN



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
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Checked By	X	Checked By	X	Checked By	X

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 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

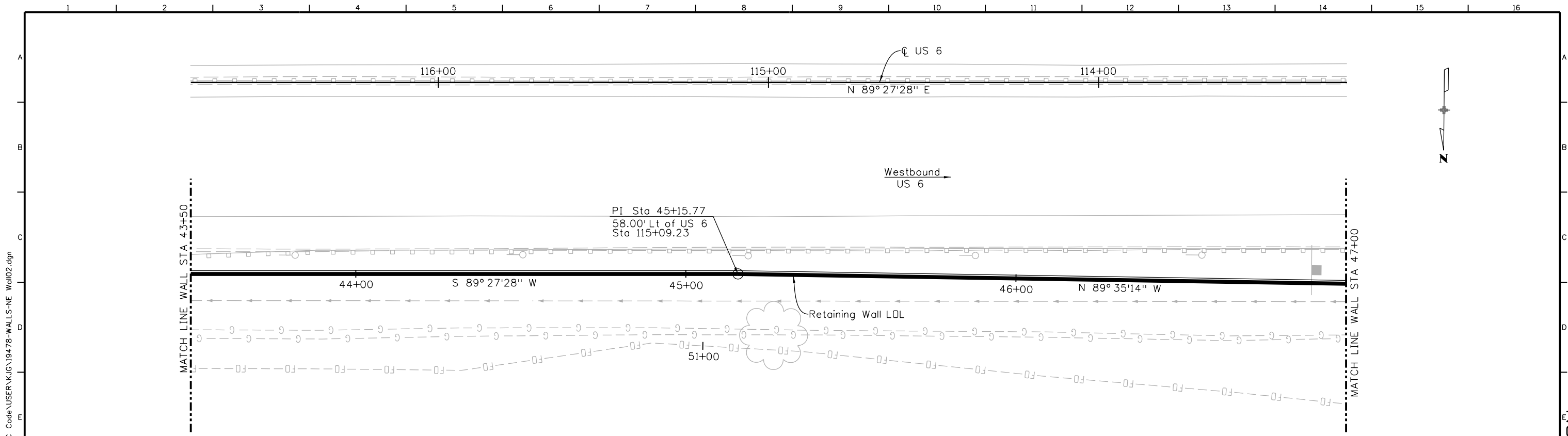
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Revised:
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NORTHEAST RETAINING WALL
GENERAL LAYOUT
1 OF 3

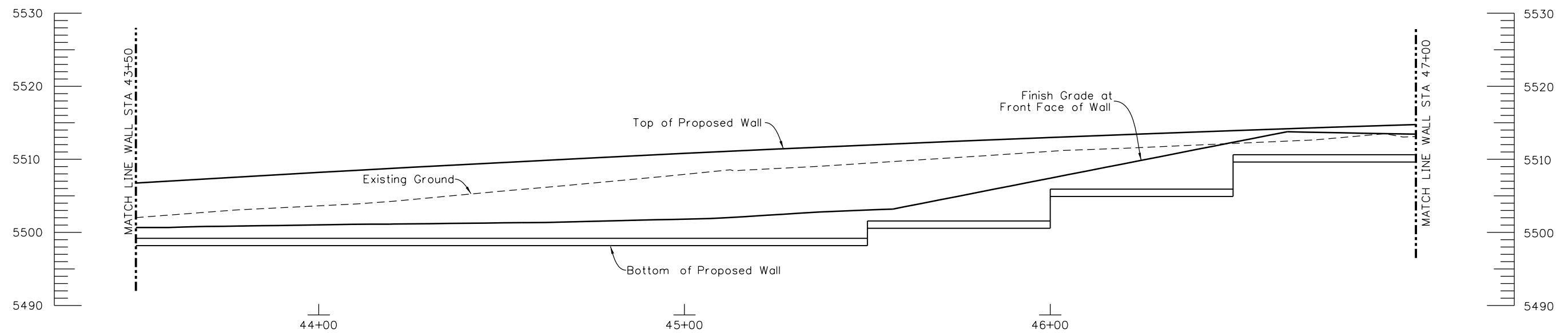
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Detailer:	Subset Sheets: W8 of 11
Sheet Subset: Walls	

Project No./Code
FBR 0063-046
19478
Sheet Number 72

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PLAN



ELEVATION

Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	X	Detailed By	X	Quantities By	X
Checked By	X	Checked By	X	Checked By	X

Print Date: 7/2/2014
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 Horiz. Scale: 1:30 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 KP B

As Constructed
No Revisions:
Revised:
Void:

NORTHEAST RETAINING WALL
 GENERAL LAYOUT
 2 OF 3

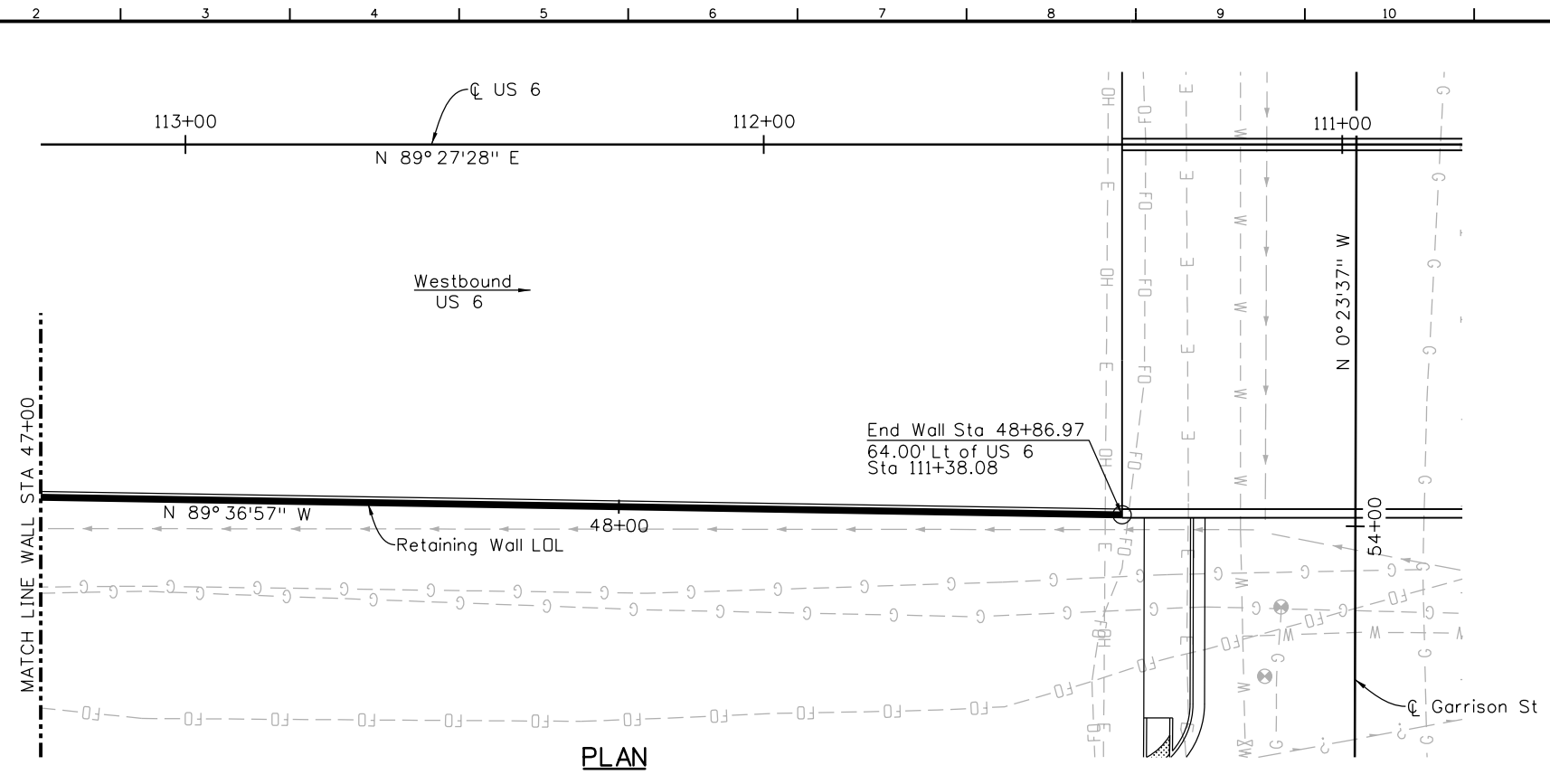
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 Subset Sheets: W9 of 11

Project No./Code
FBR 0063-046
19478
Sheet Number 73

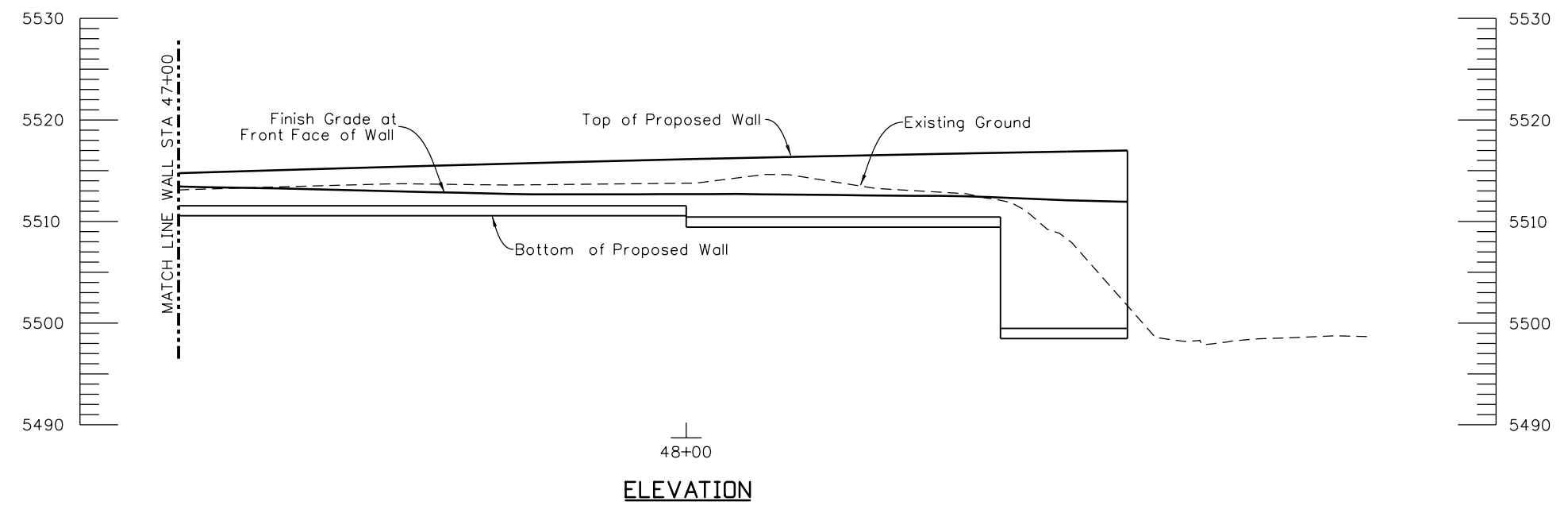
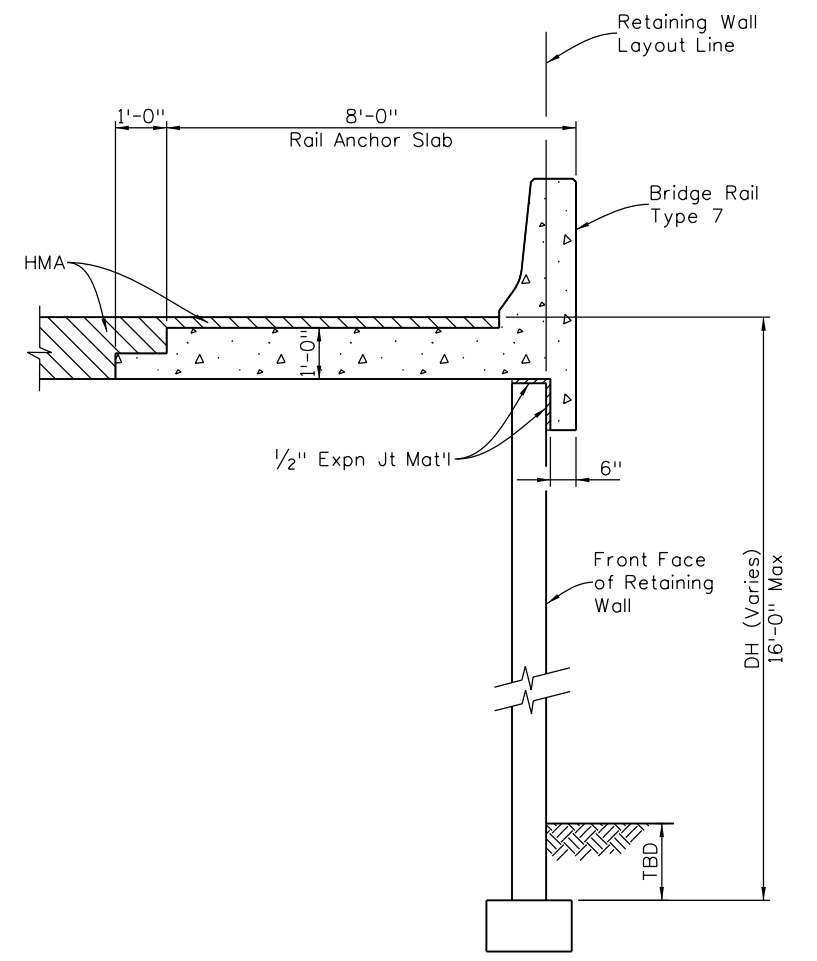
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PLAN



ELEVATION

Design		Detail		Quantities	
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Checked By	X	Checked By	X	Checked By	X

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 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
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 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

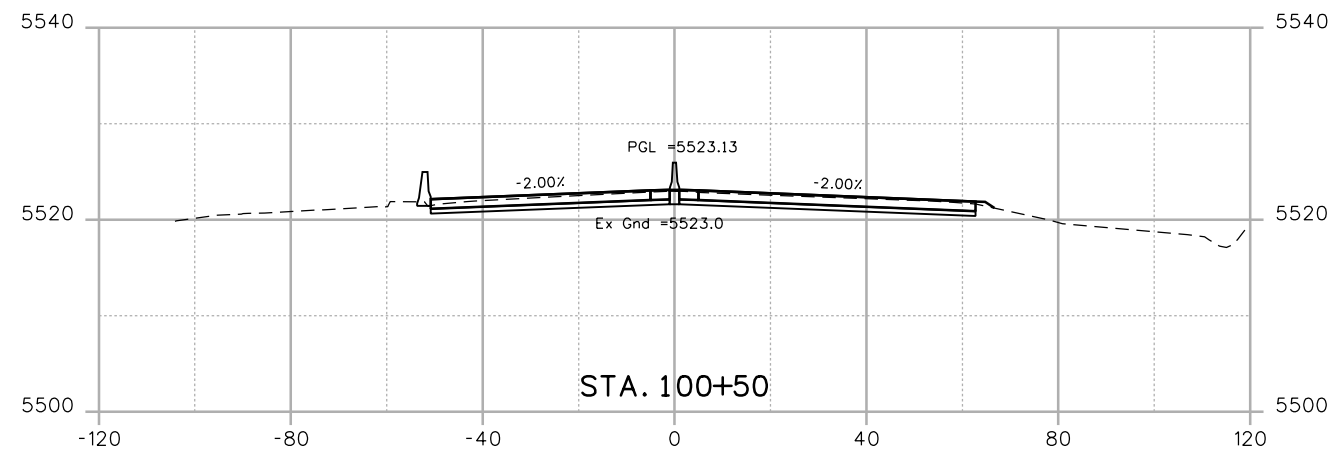
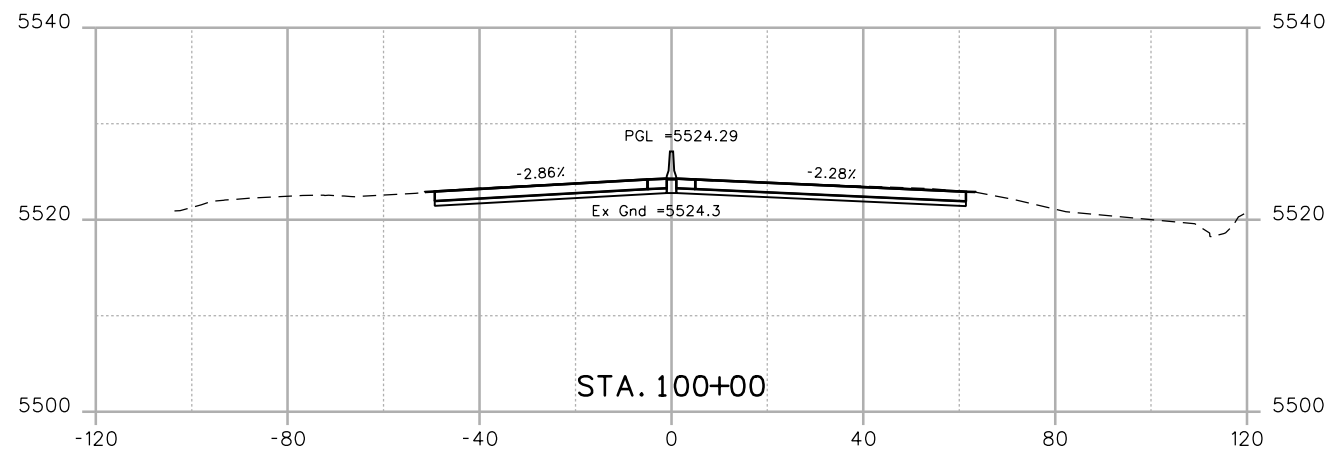
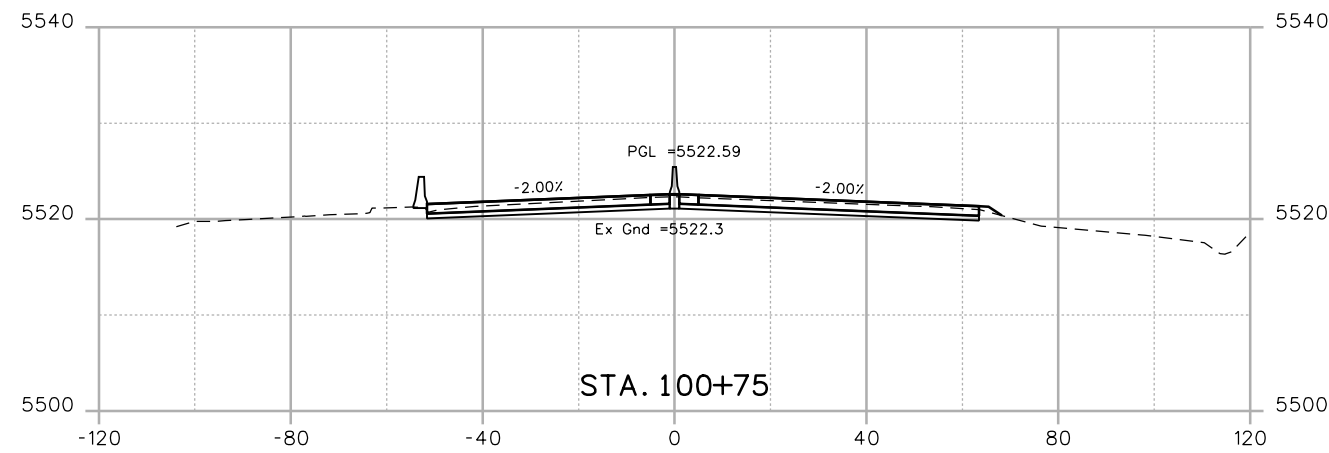
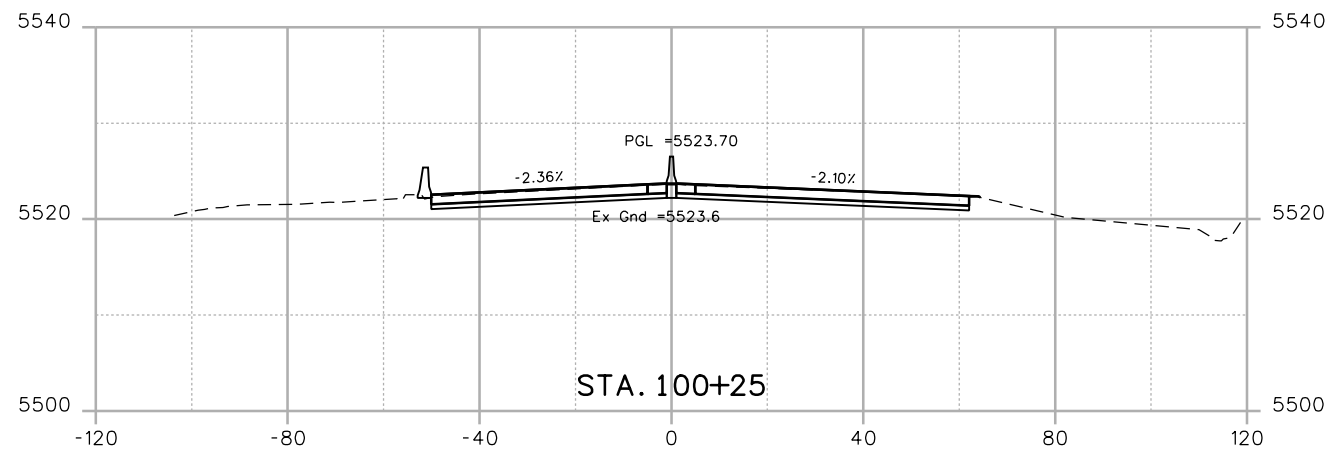
As Constructed
 No Revisions:
 Revised:
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NORTHEAST RETAINING WALL
GENERAL LAYOUT
3 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls Subset Sheets: W10 of 11

Project No./Code
 FBR 0063-046
 19478
Sheet Number 74

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Print Date: 7/2/2014	
File Name: 19478-XSEC01.dgn	
Horiz. Scale: 1:40	Vert. Scale:
Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

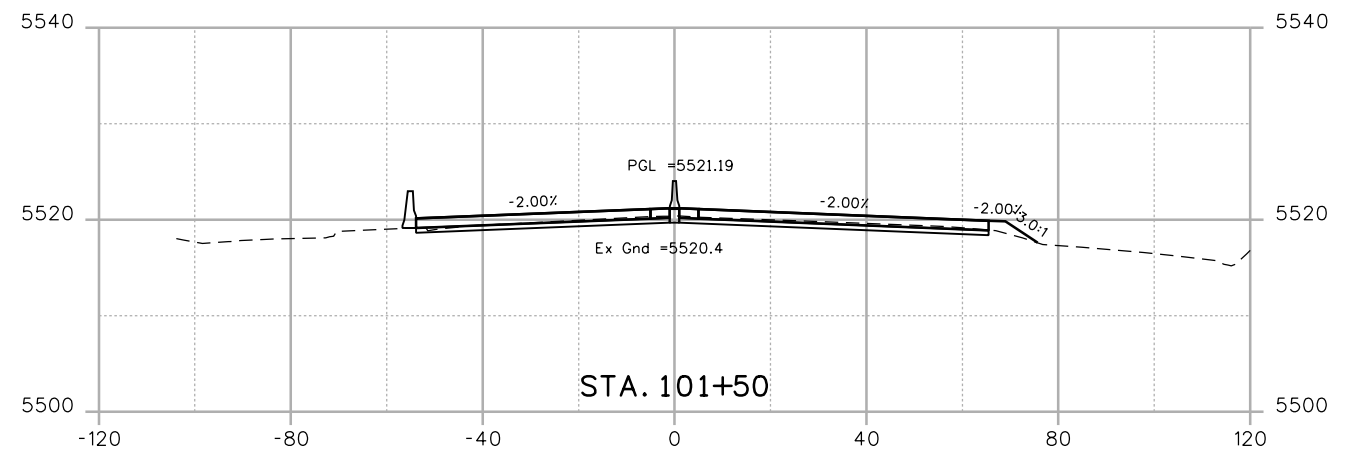
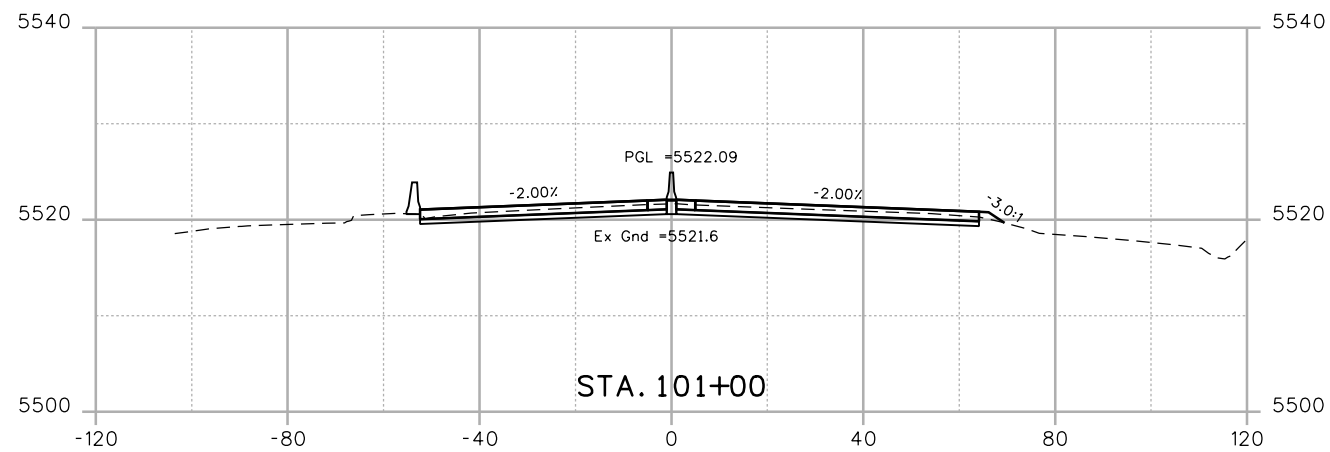
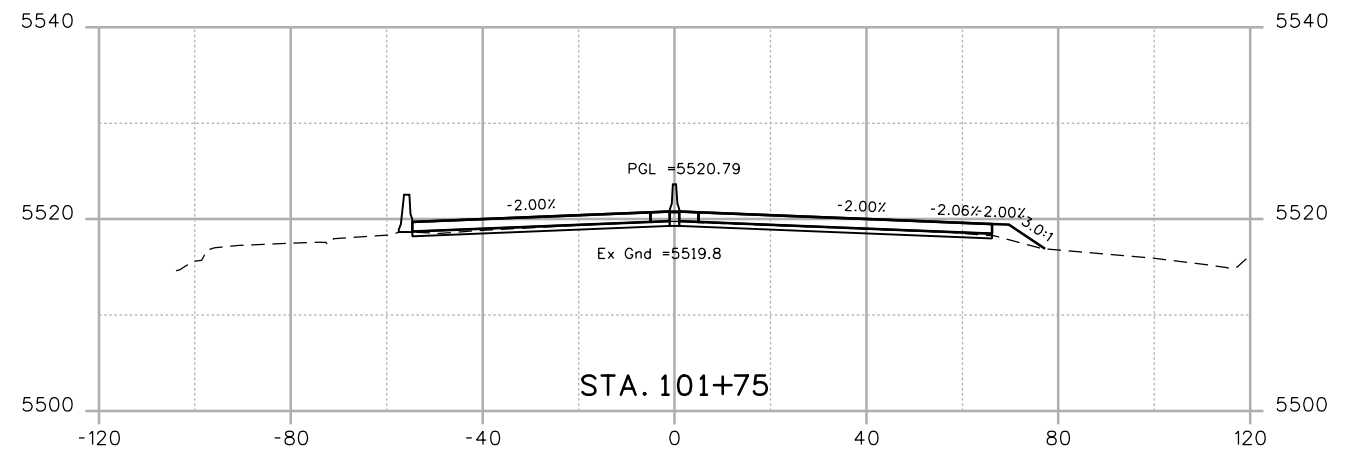
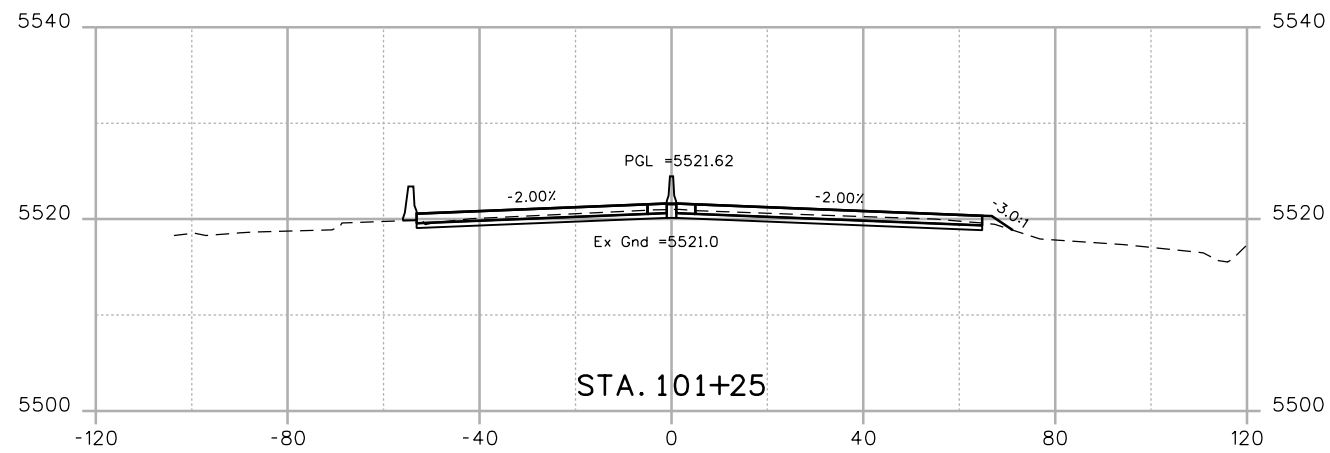
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Designer:	CH	Structure	
Detailer:	CS	Numbers	
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Project No./Code
?
19478
Sheet Number 75

WORK IN PROGRESS


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Print Date: 7/2/2014
 File Name: 19478-XSEC01.dgn
 Horiz. Scale: 1:40 Vert. Scale:
 Unit Information Unit Leader



Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
Region 1 **KPB**

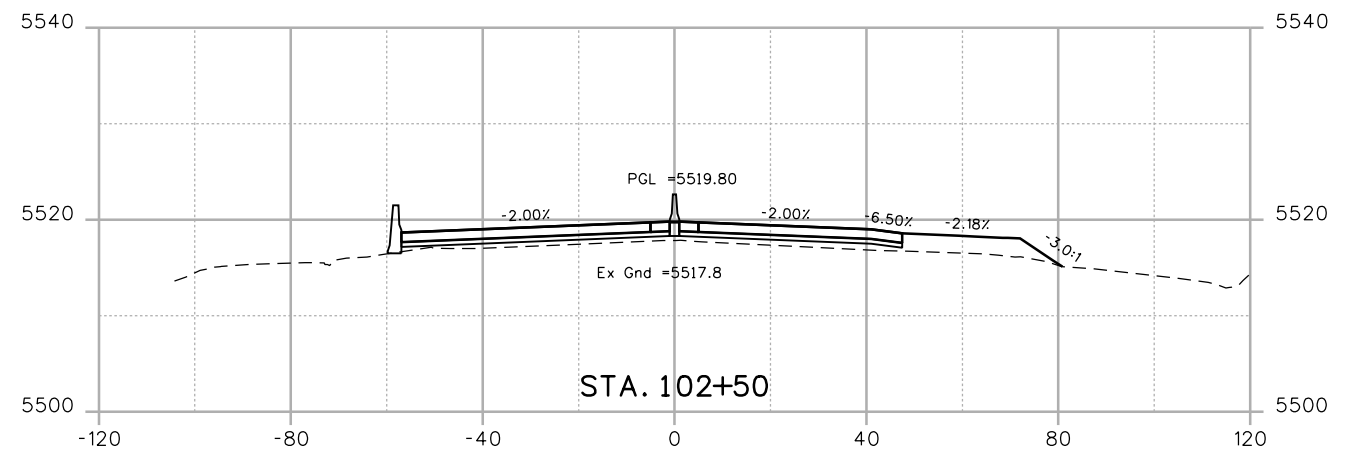
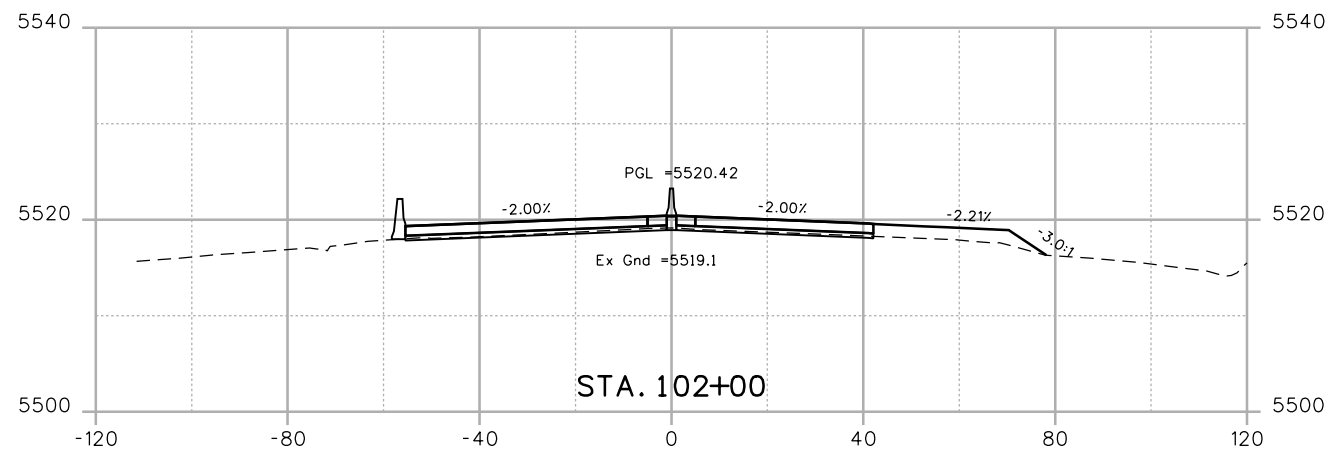
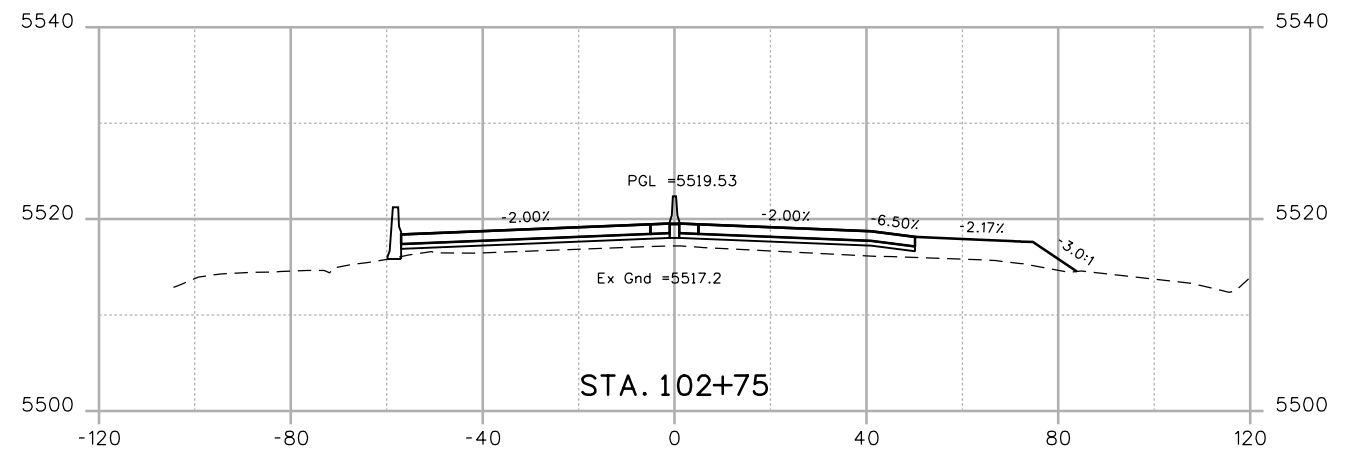
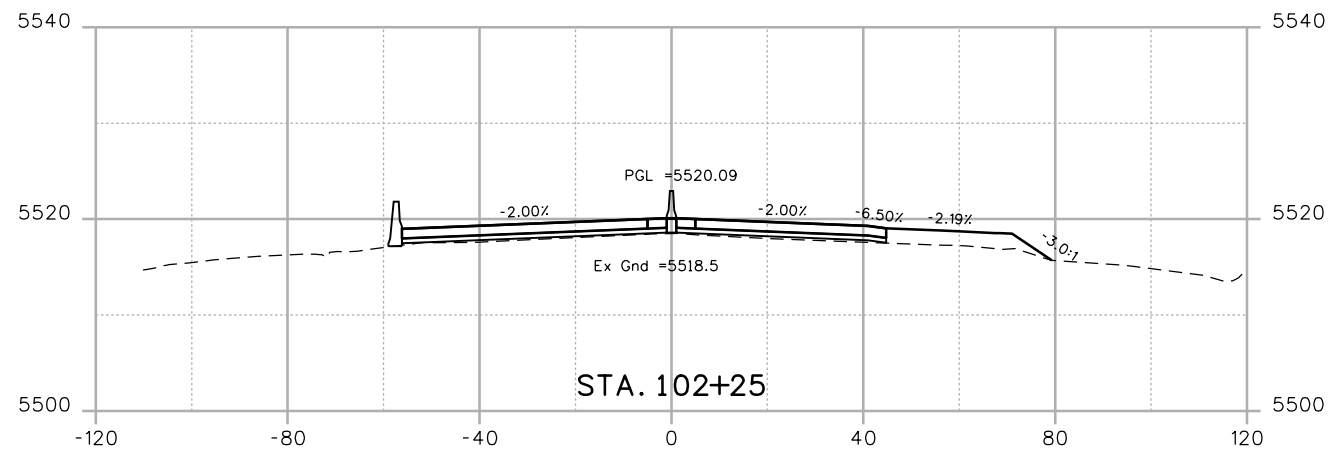
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 Revised:
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CROSS SECTIONS US 6			
Designer:	CH	Structure Numbers	
Detailer:	CS	Subset Sheets:	XC2 of 35
Sheet Subset:	XSEC		

Project No./Code
 ?
 19478
Sheet Number **76**

WORK IN PROGRESS

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Print Date: 7/2/2014	
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Horiz. Scale: 1:40	Vert. Scale:
Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951

Region 1 KPB

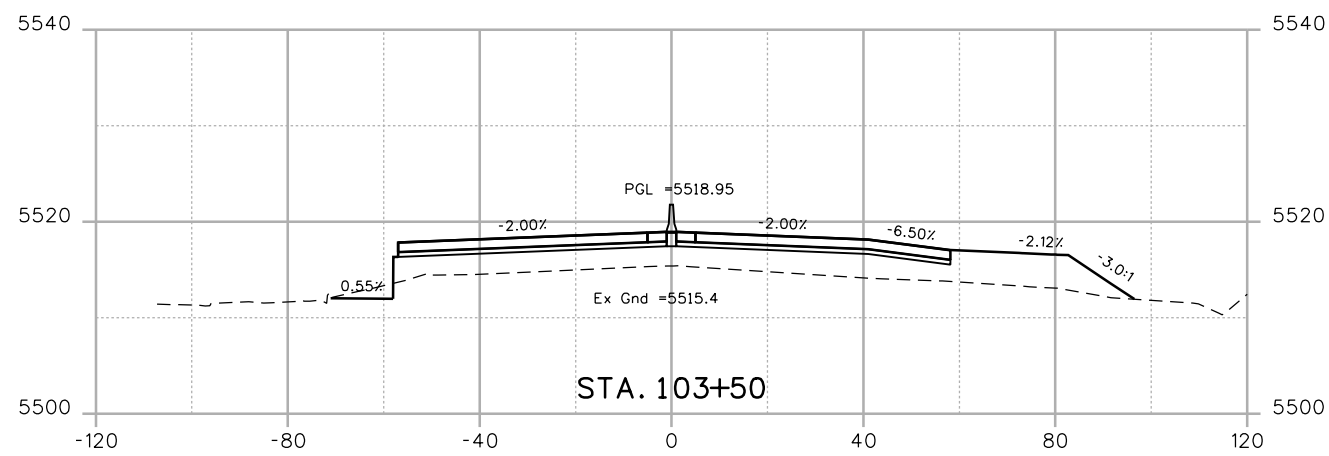
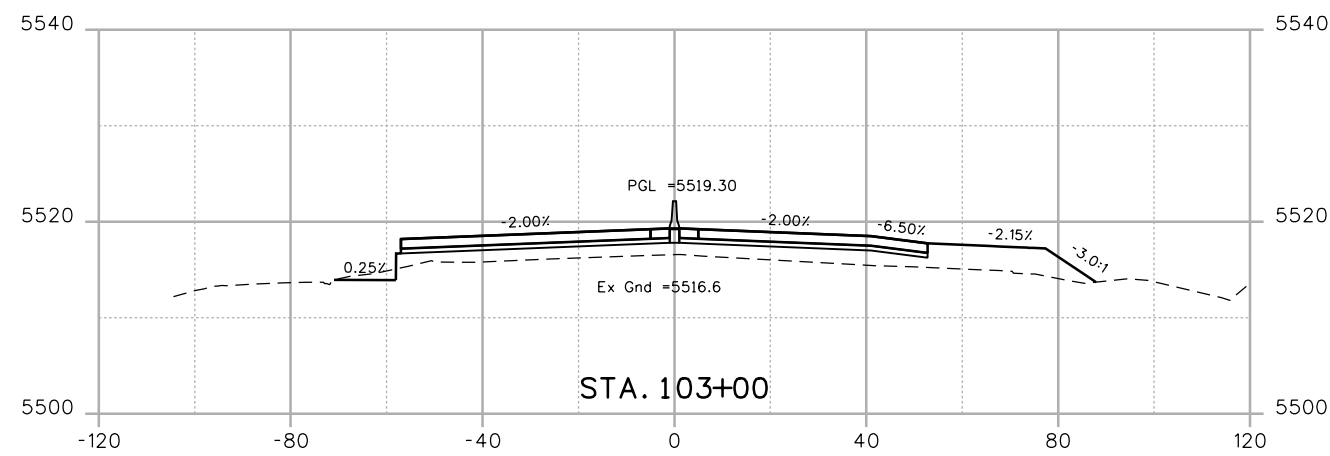
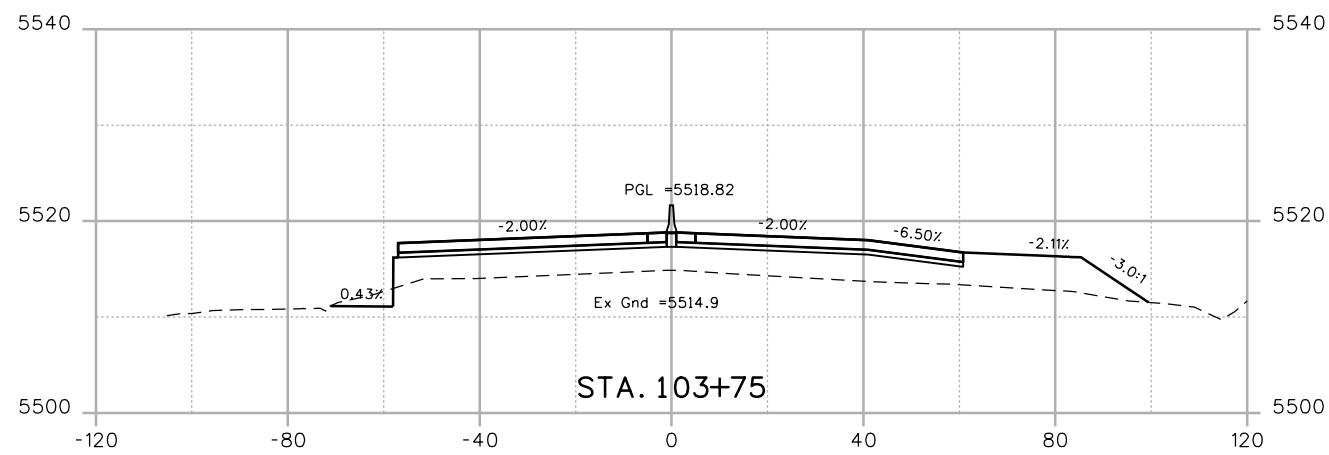
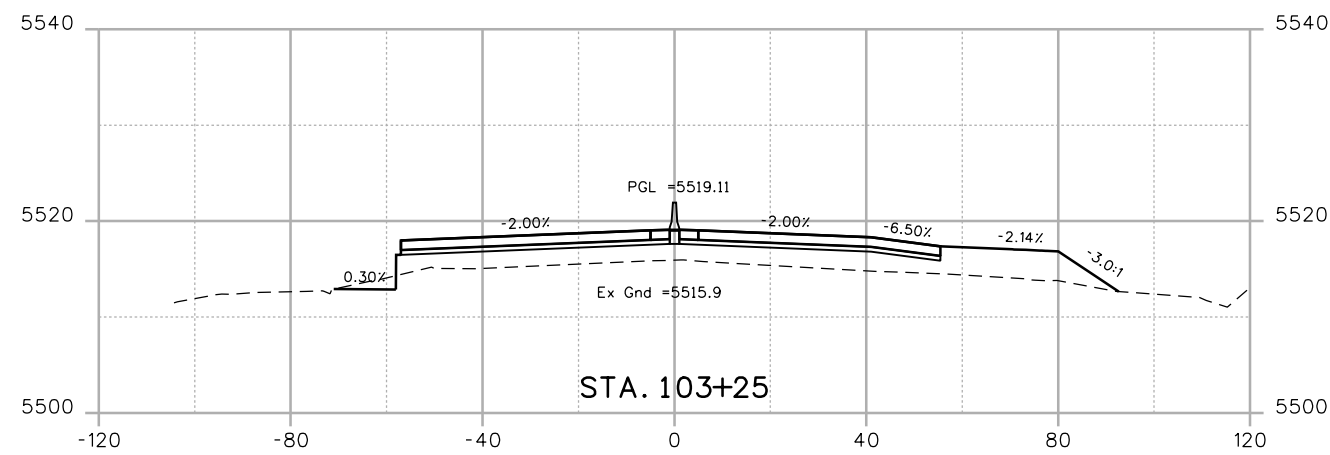
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Revised:
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Project No./Code	?
	19478
Sheet Number	77

WORK IN PROGRESS

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File Name: 19478-XSEC01.dgn	
Horiz. Scale: 1:40	Vert. Scale:
Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

425 B Corporate Circle
Golden, CO 80401
Phone: 720-497-6954 FAX: 720-497-6951

Region 1 KPB

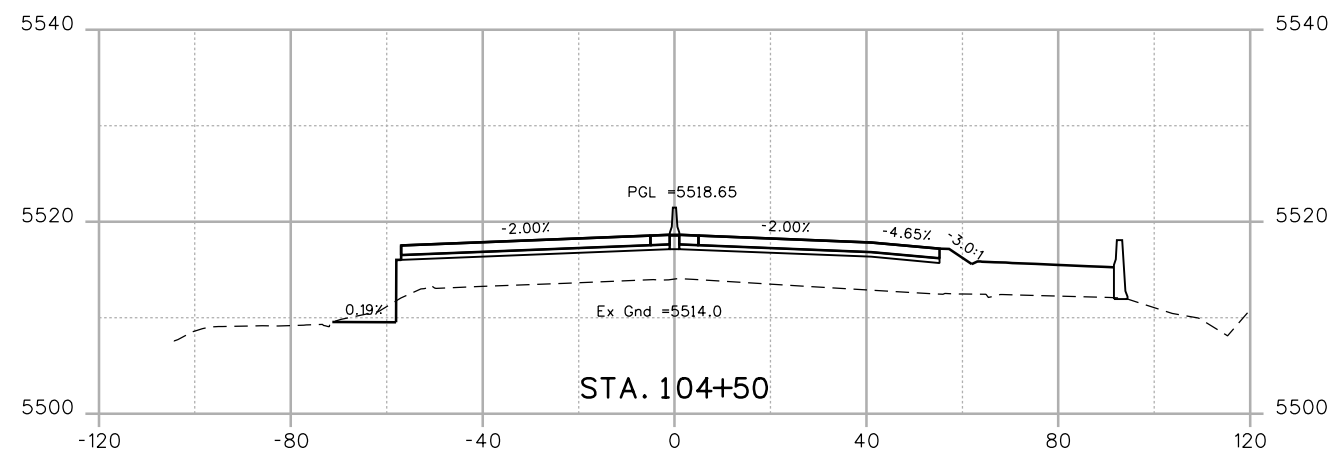
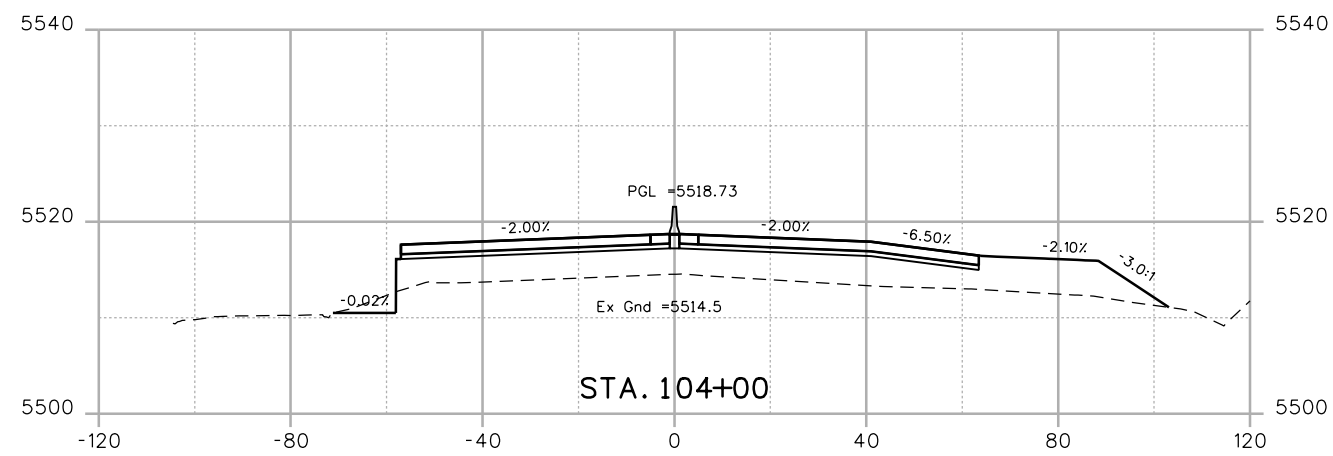
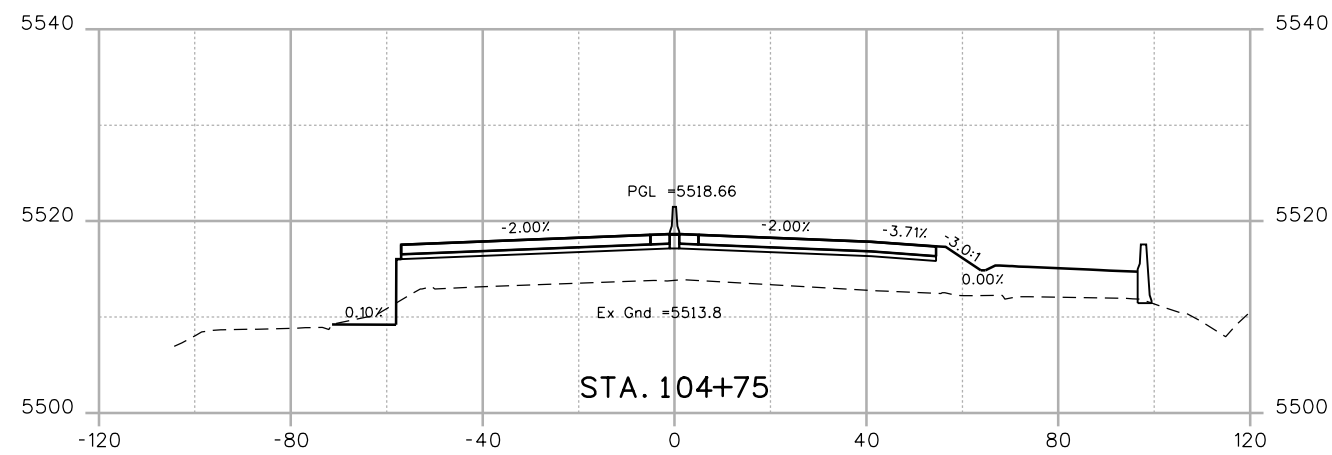
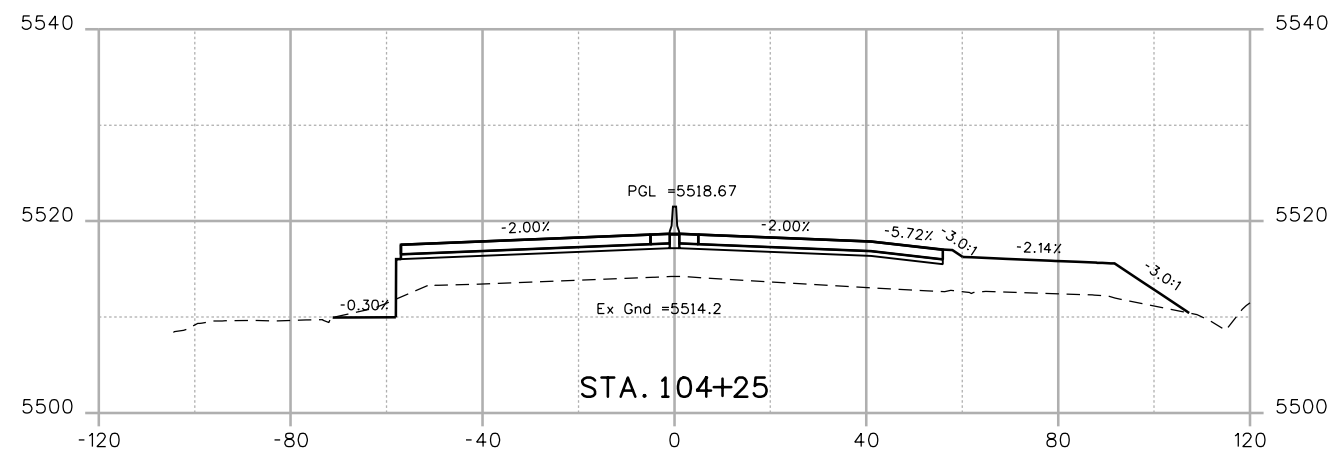
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Project No./Code	?
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Sheet Number	78

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Unit Information Unit Leader

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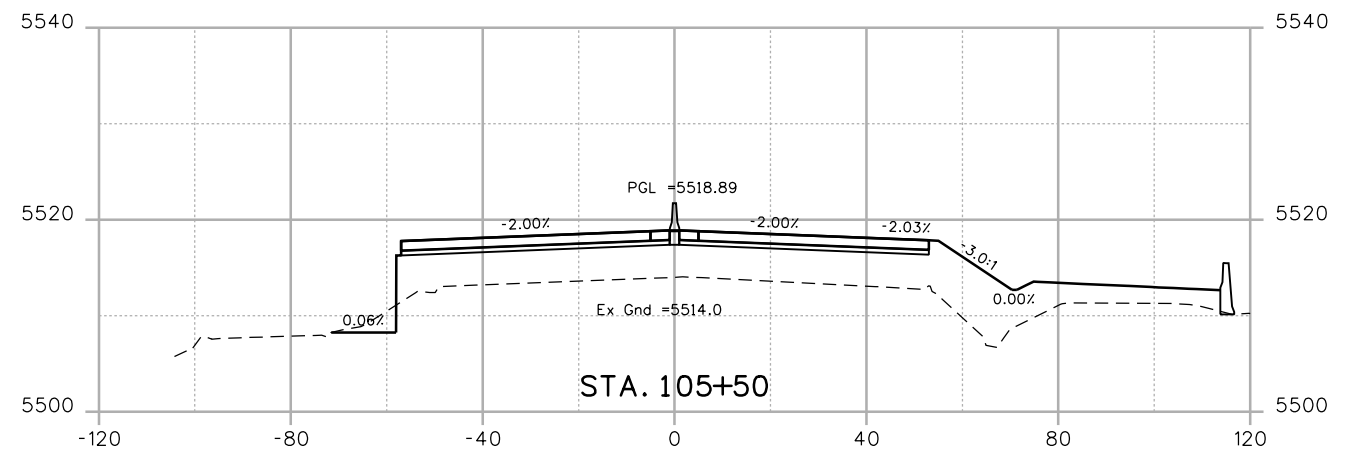
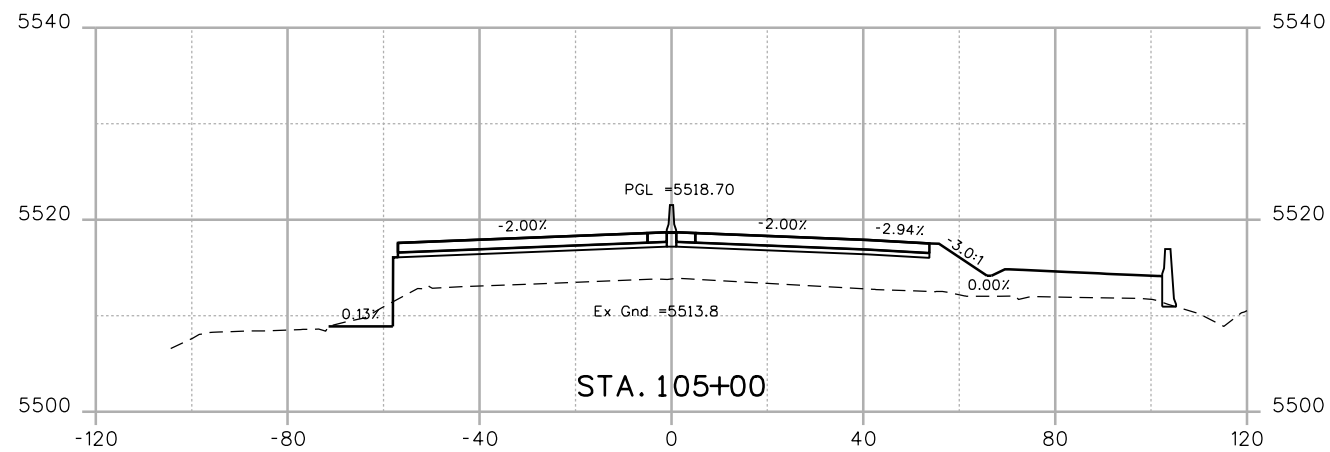
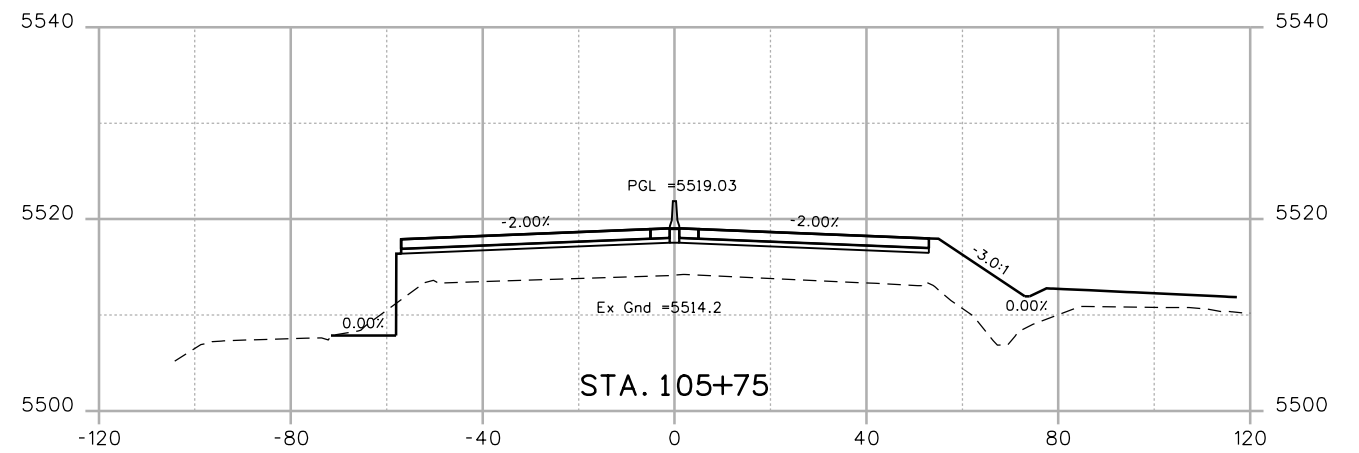
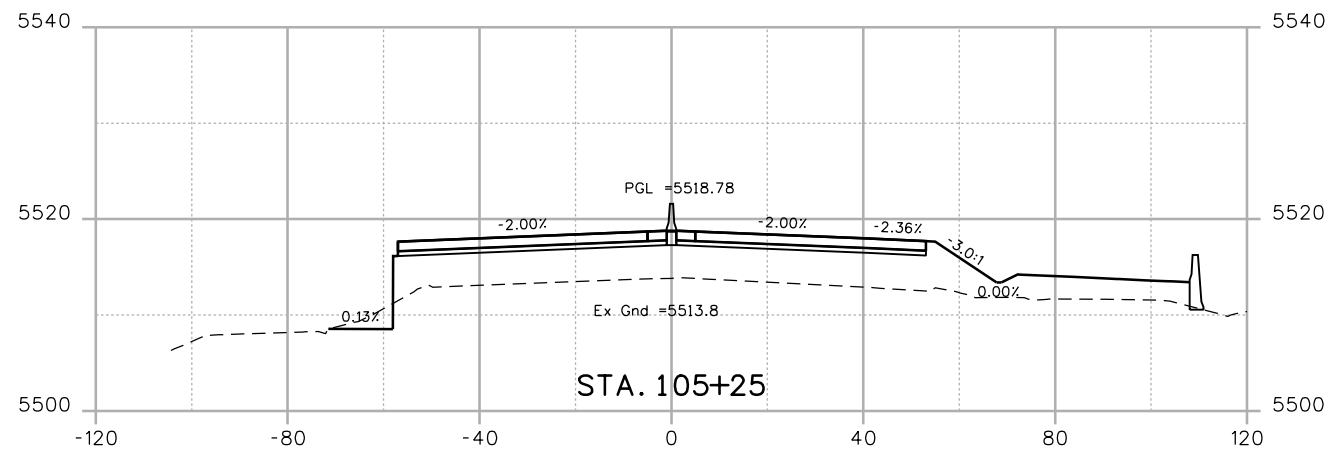
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Project No./Code
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19478
Sheet Number 79

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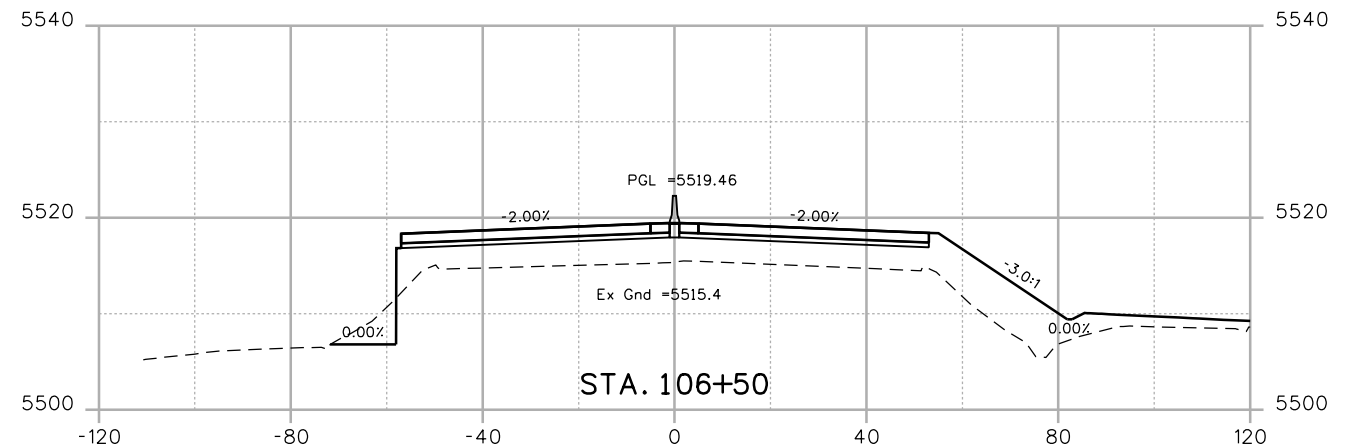
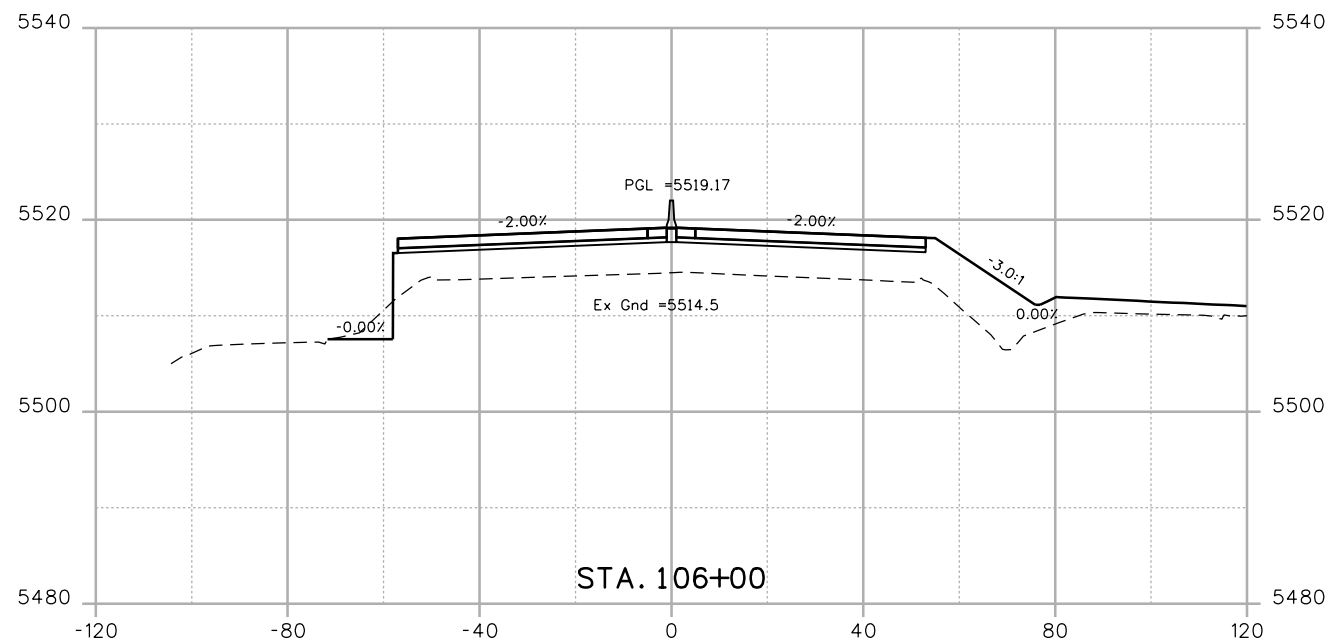
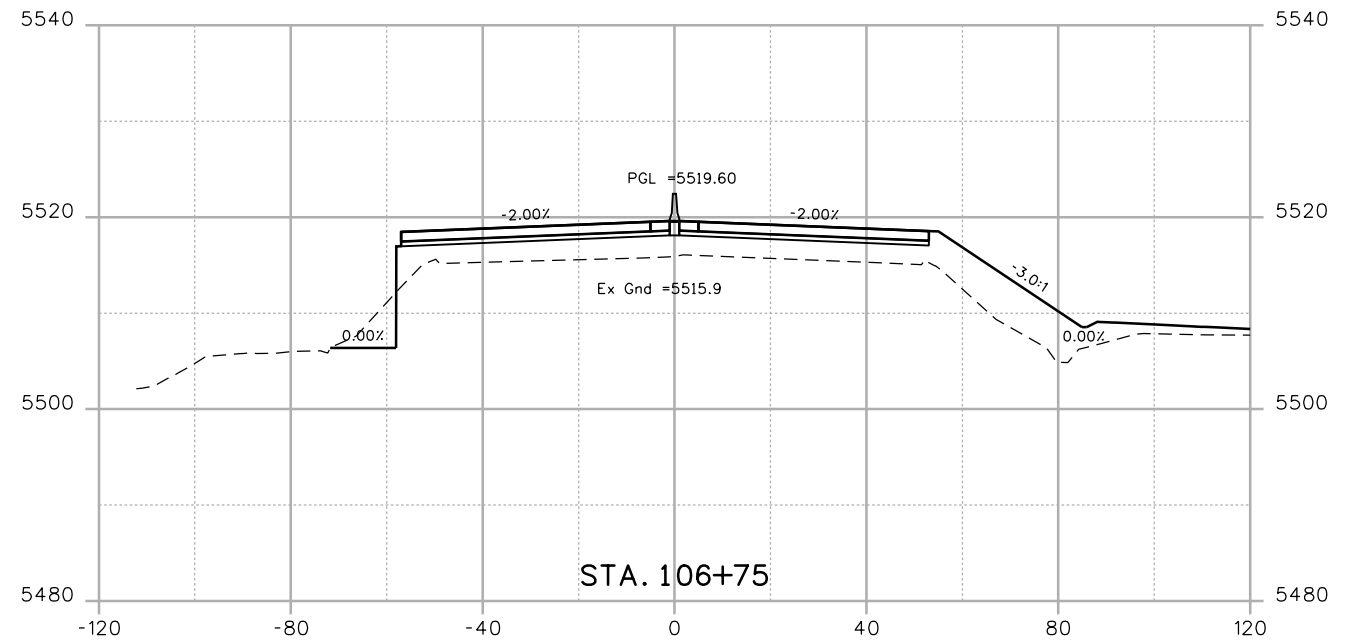
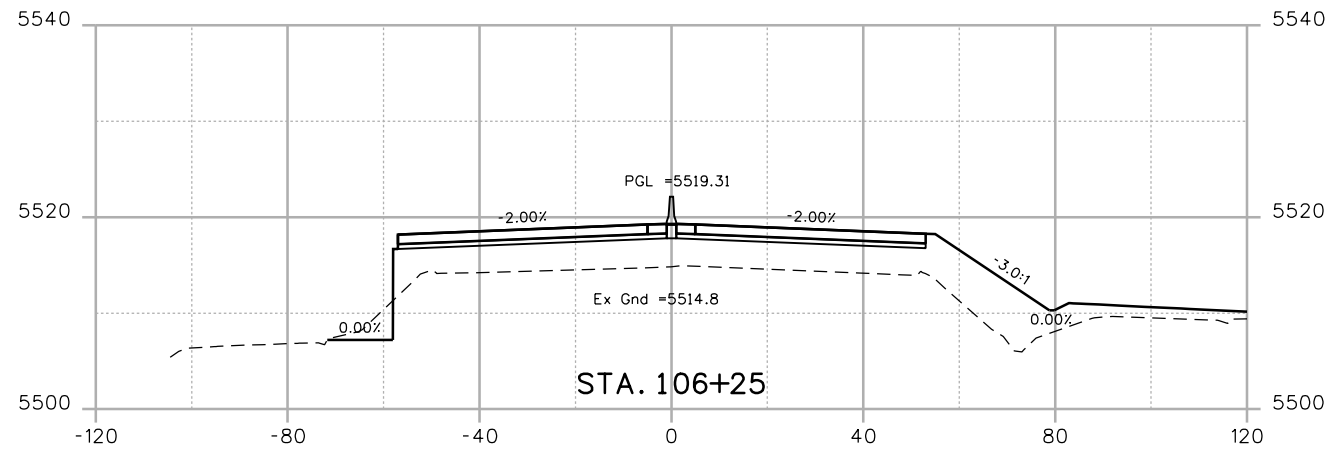
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Project No./Code
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Sheet Number **80**


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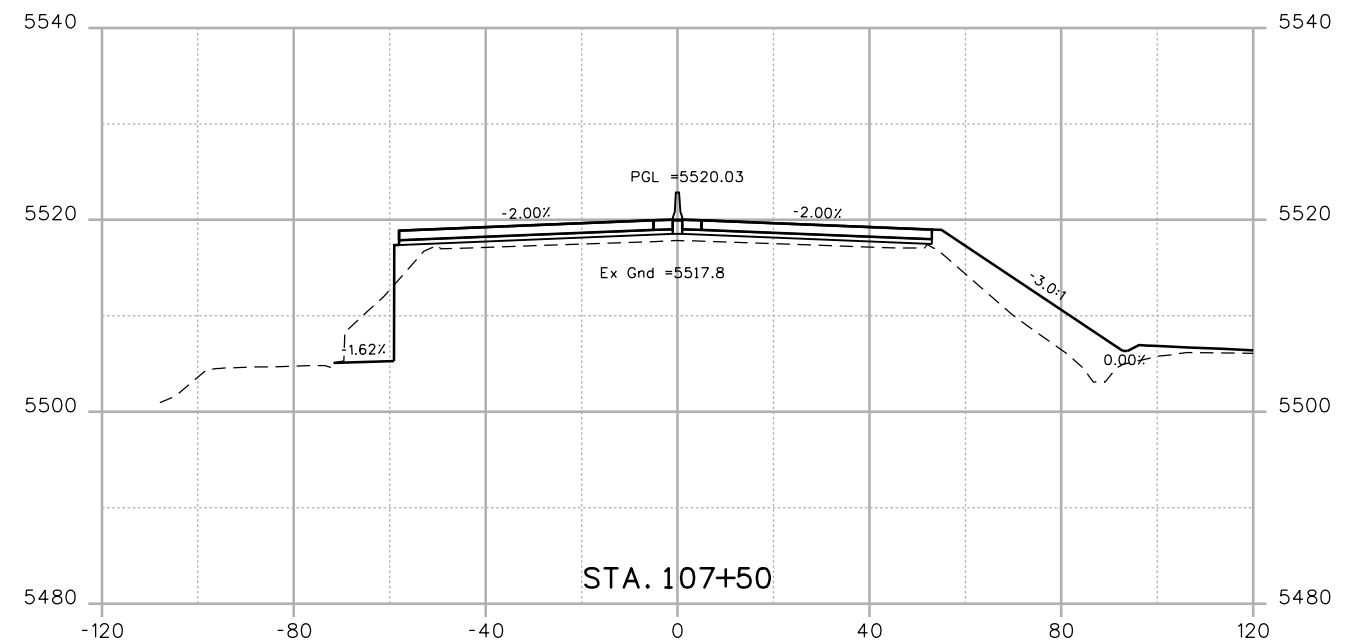
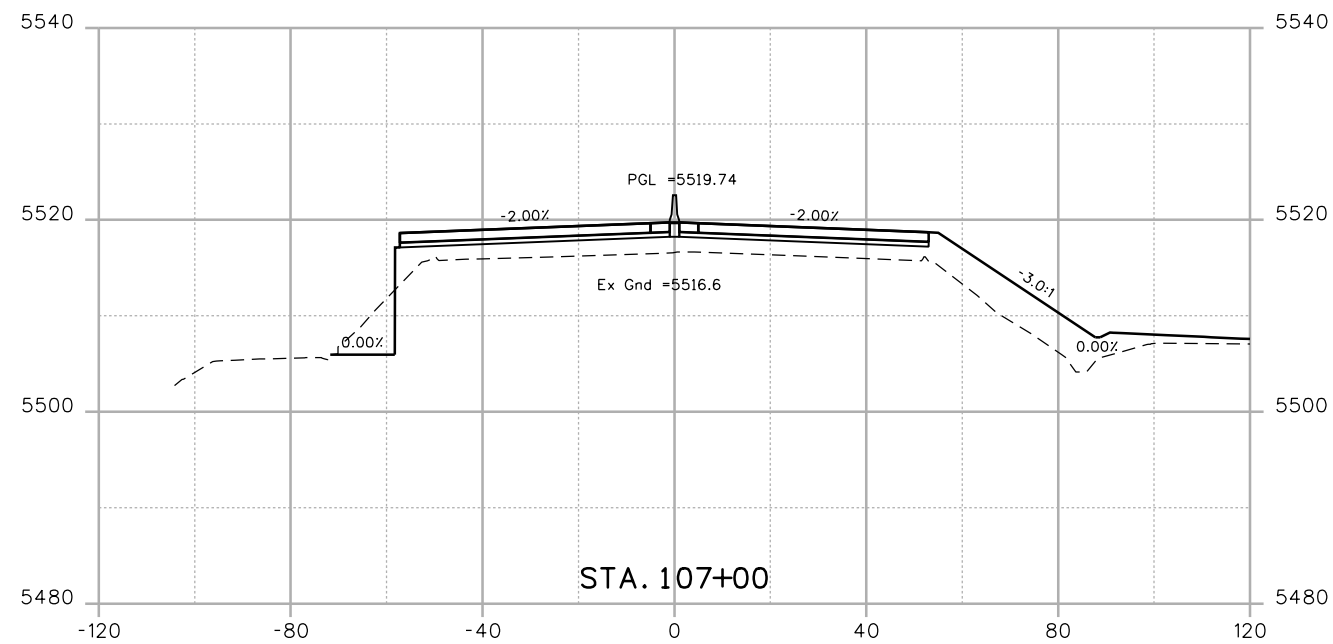
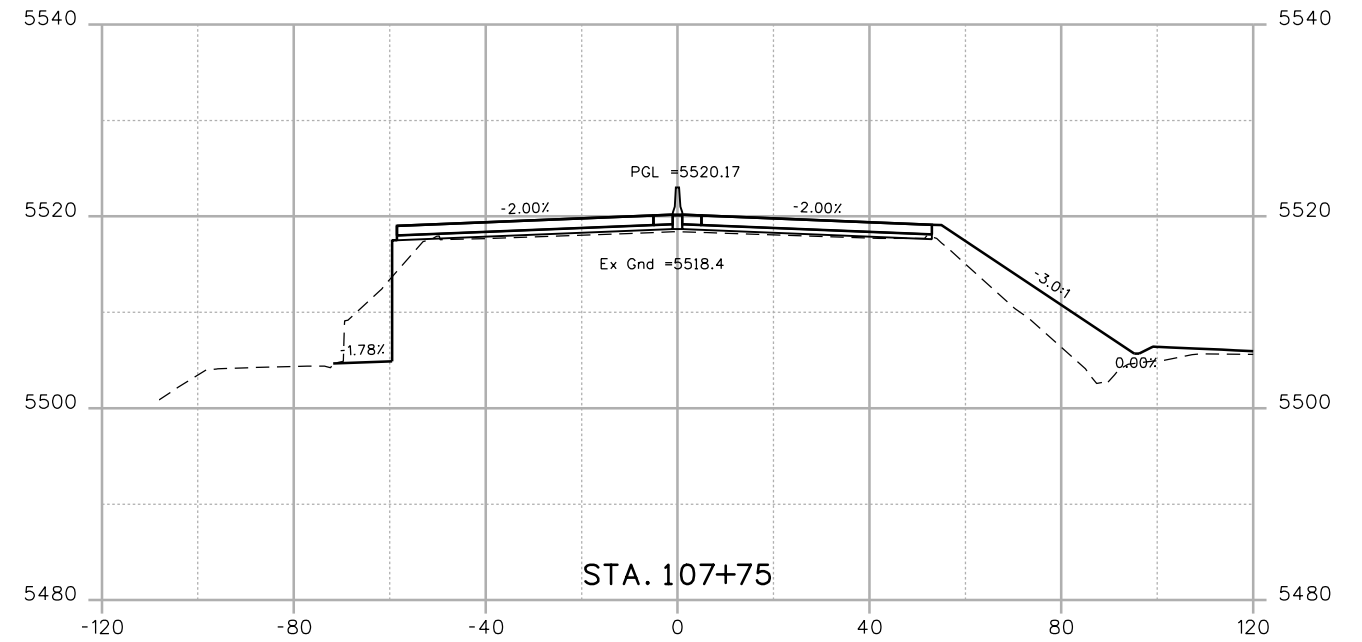
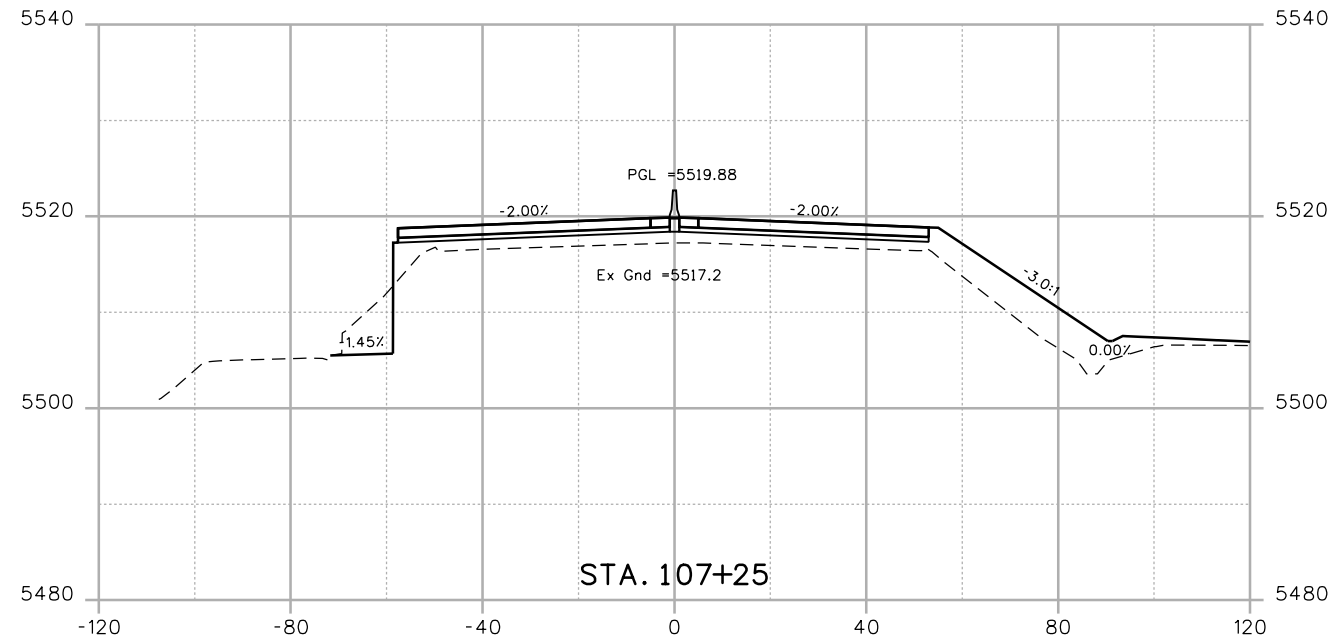
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Project No./Code
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 Sheet Number **81**



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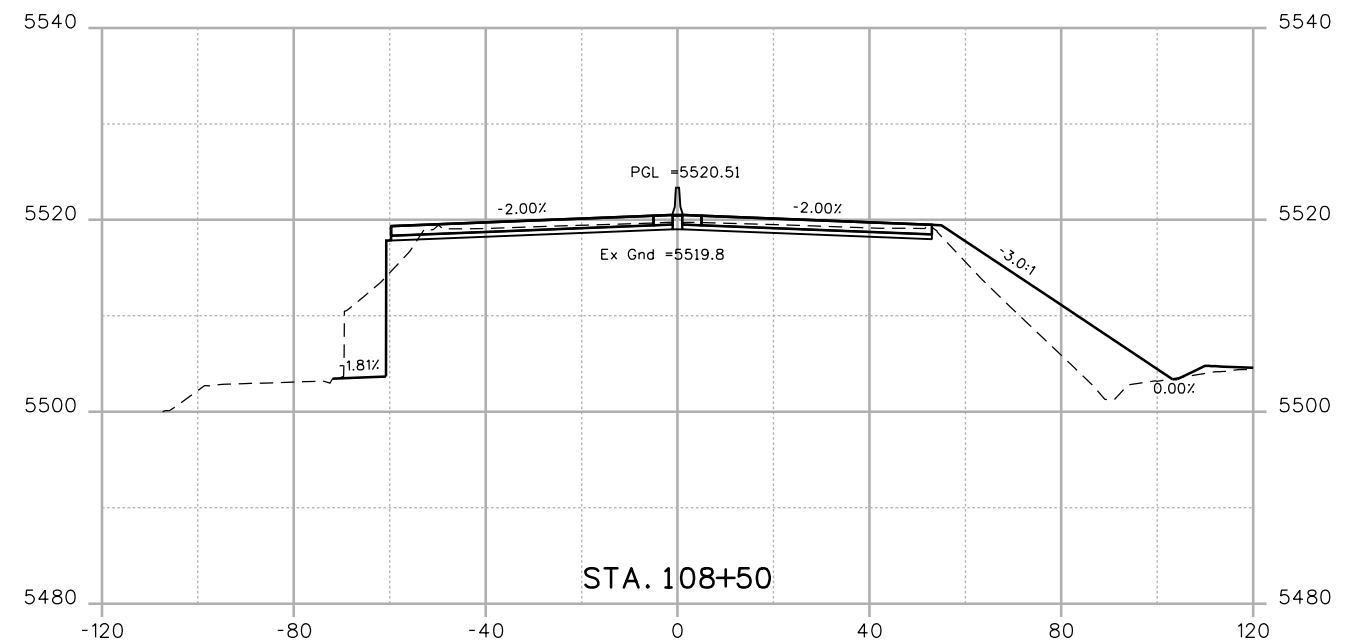
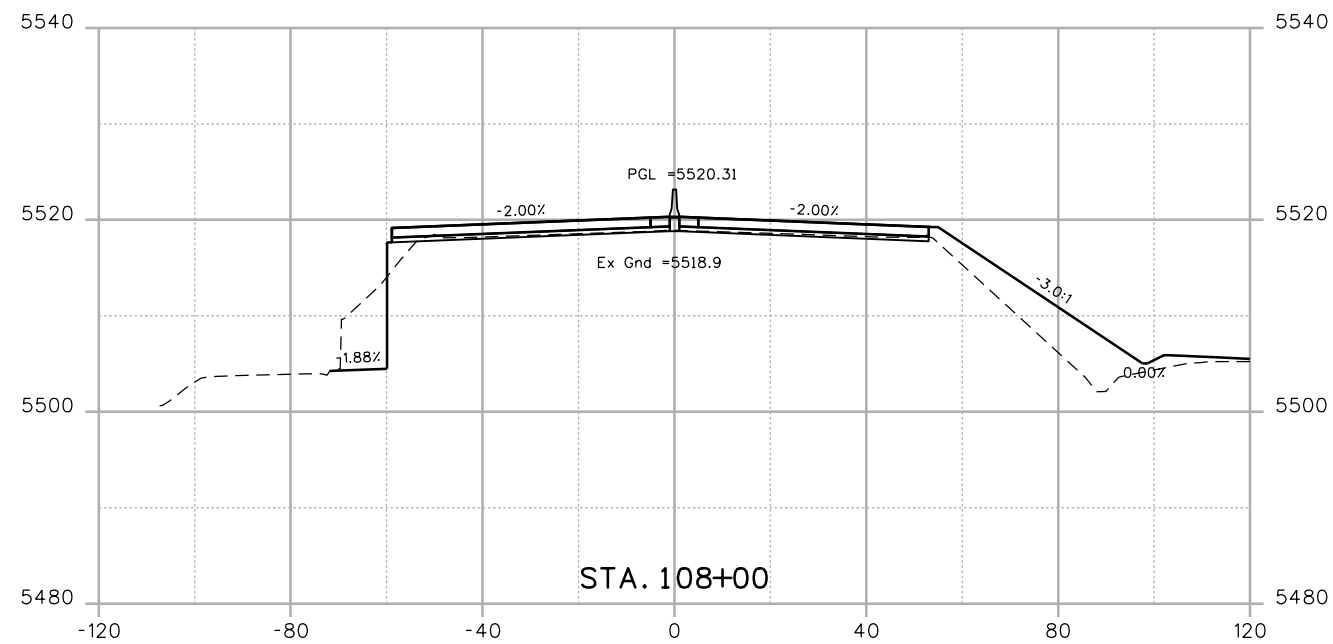
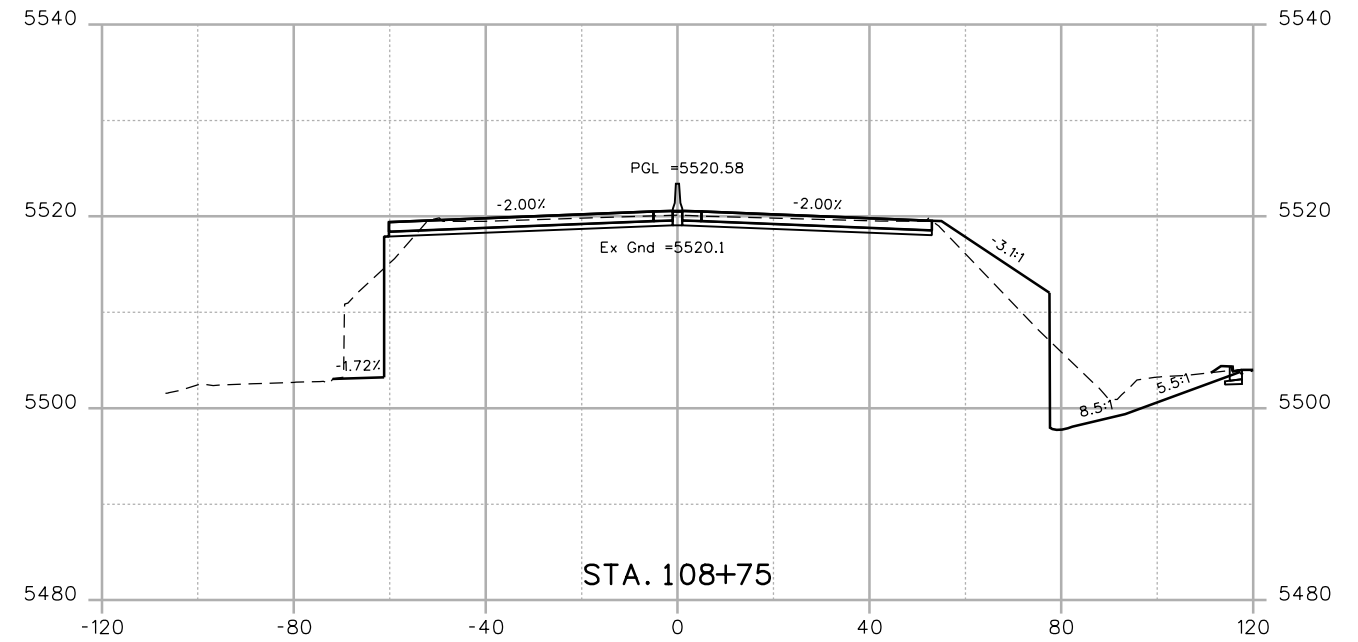
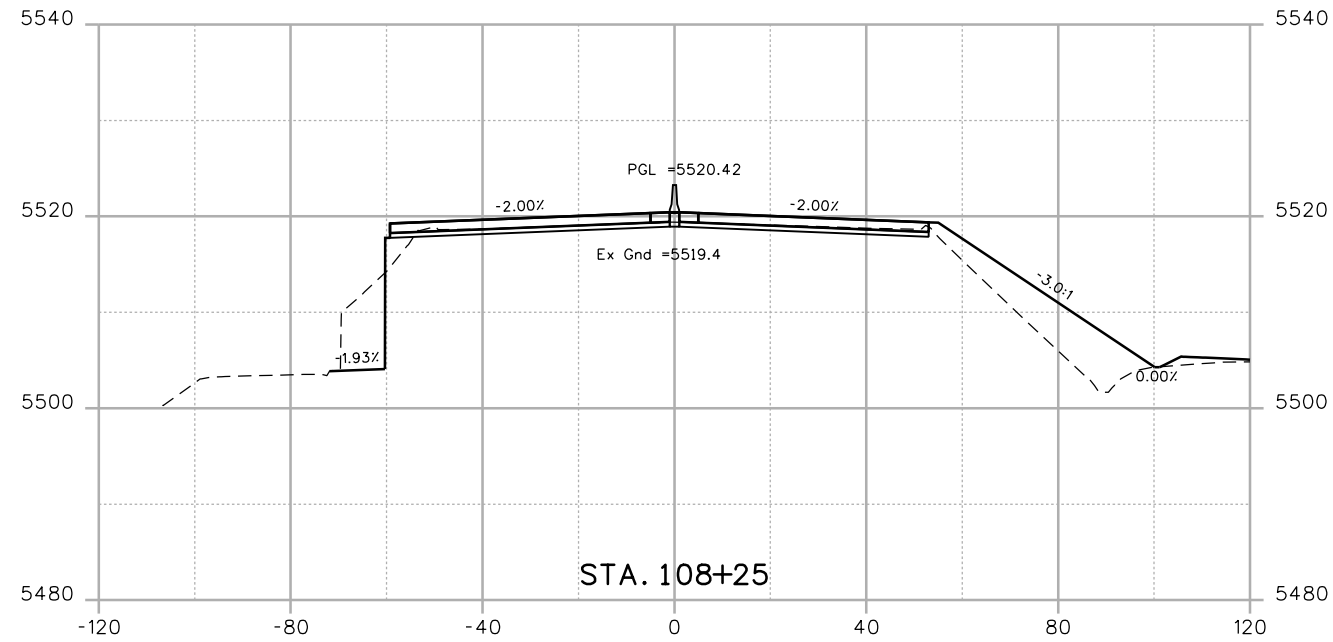
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Project No./Code
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 19478
 Sheet Number 82

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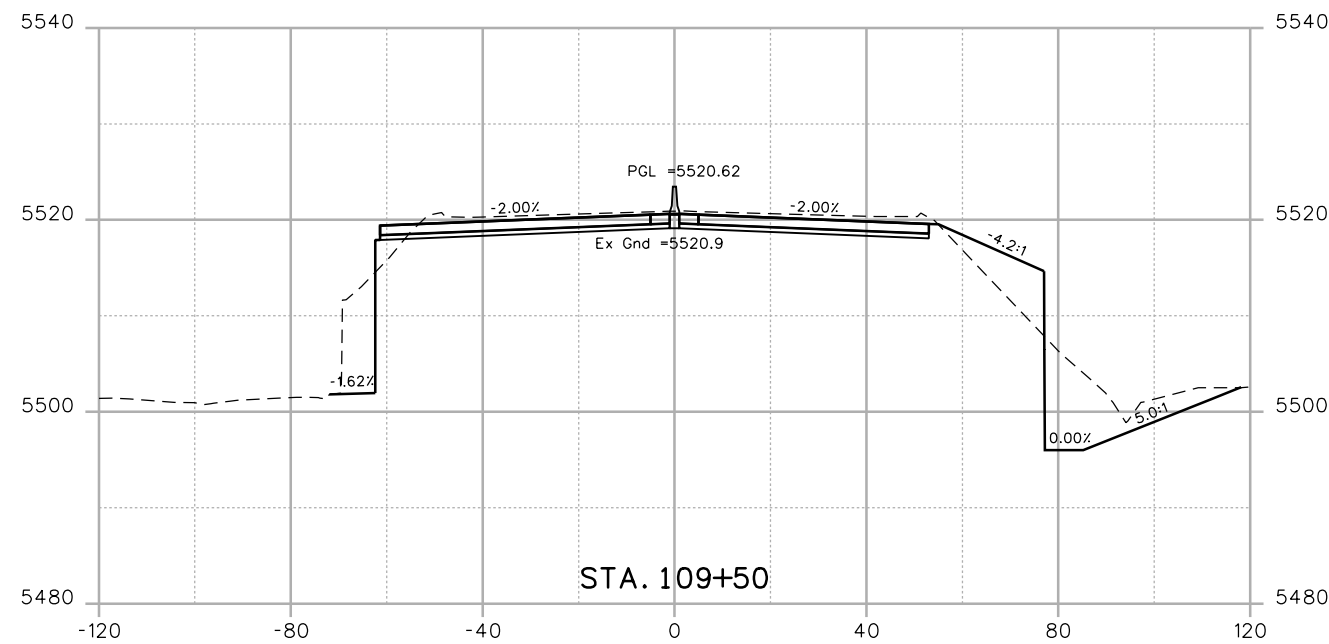
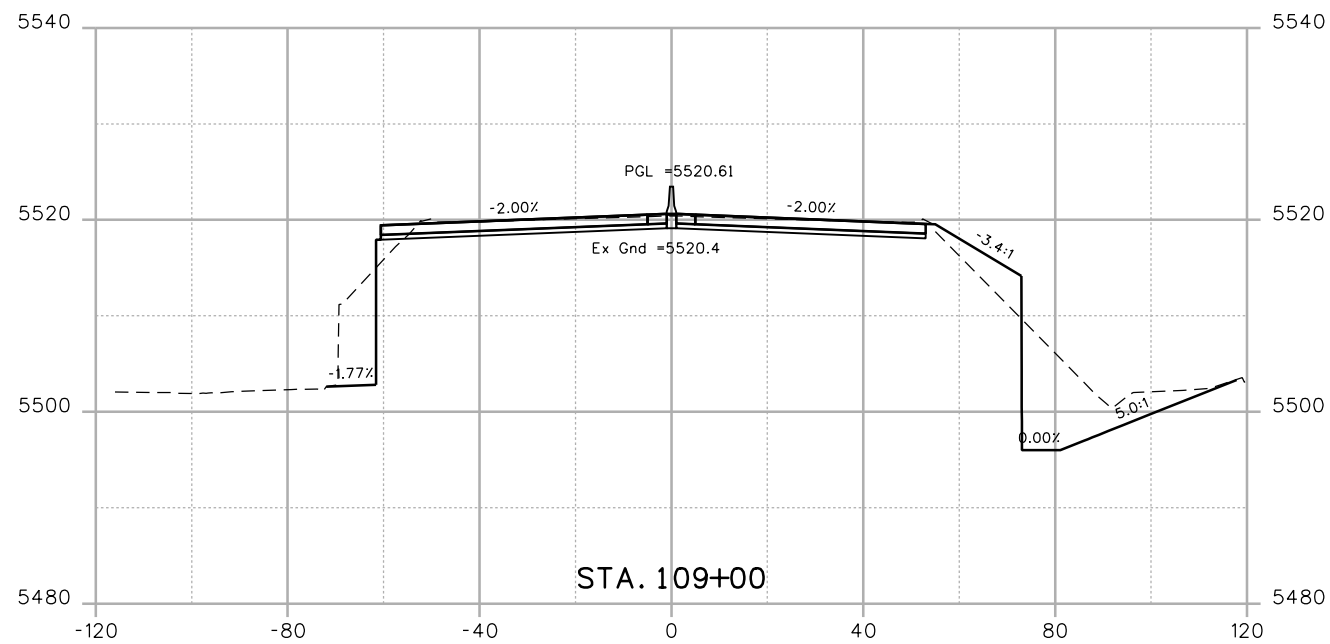
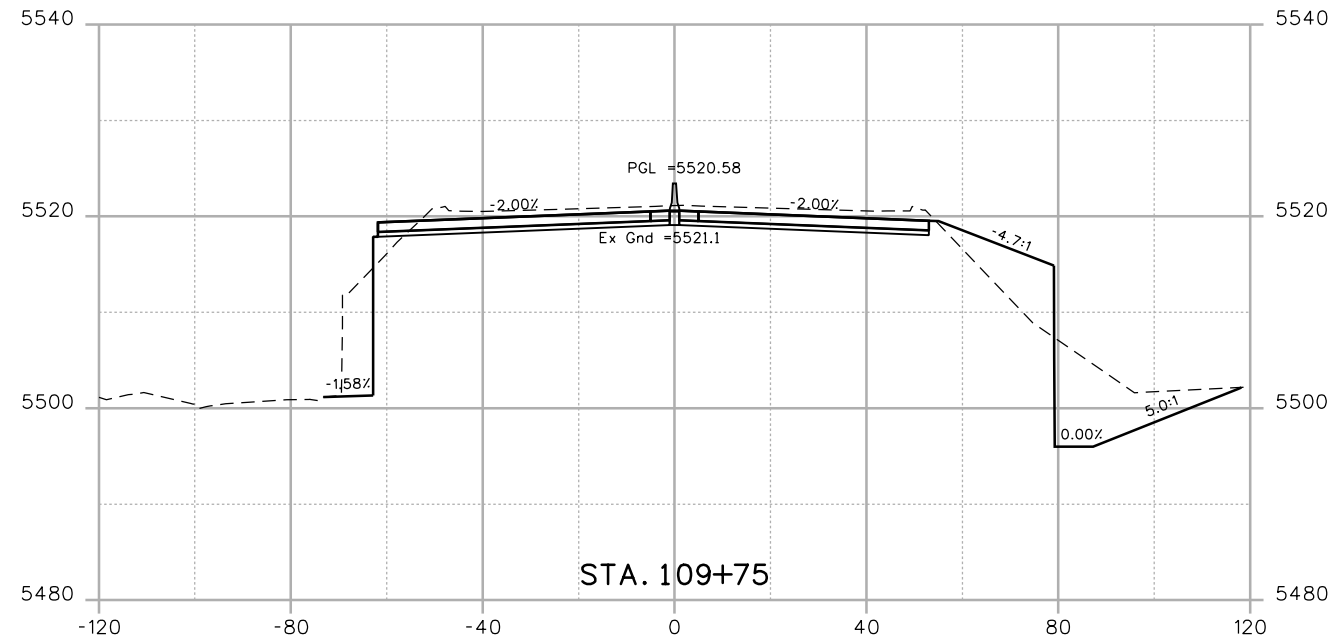
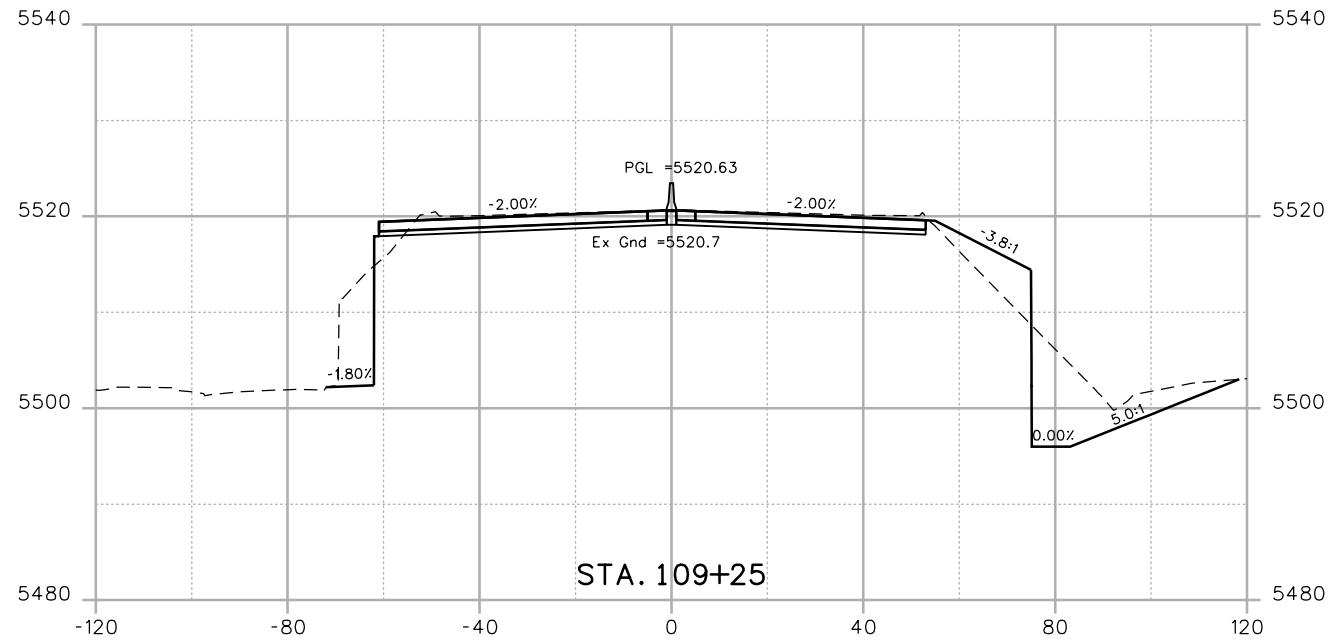
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Project No./Code
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 Sheet Number 83


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Sheet Revisions		
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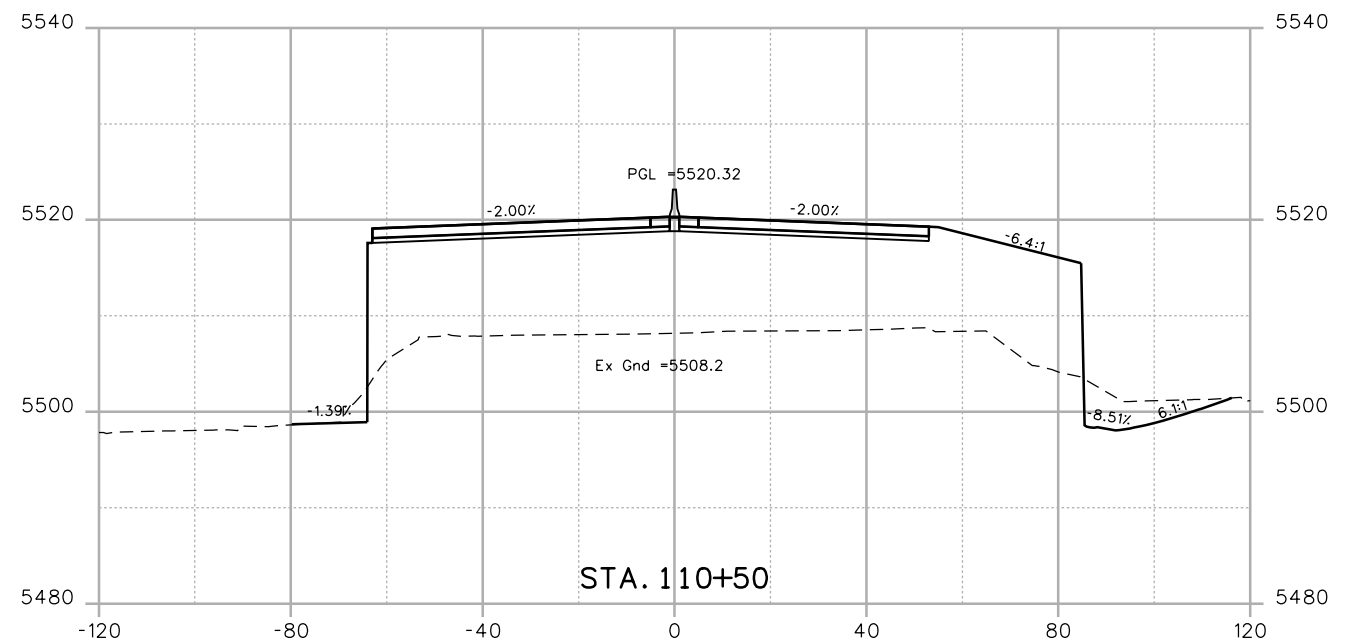
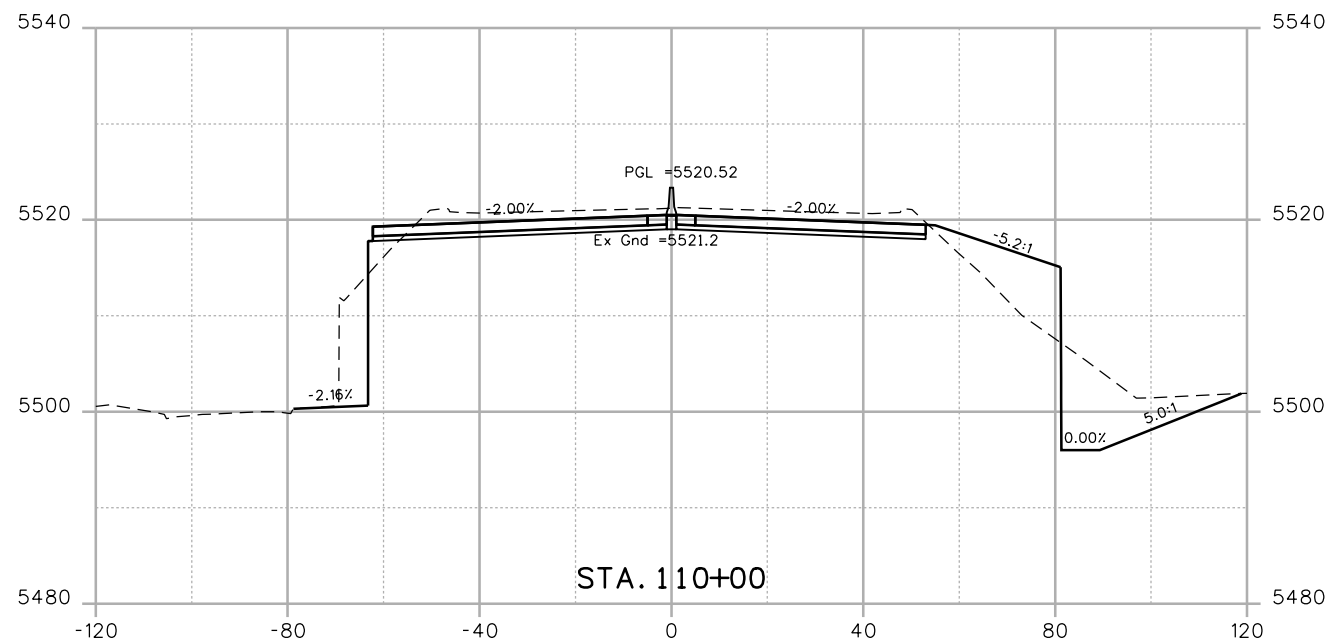
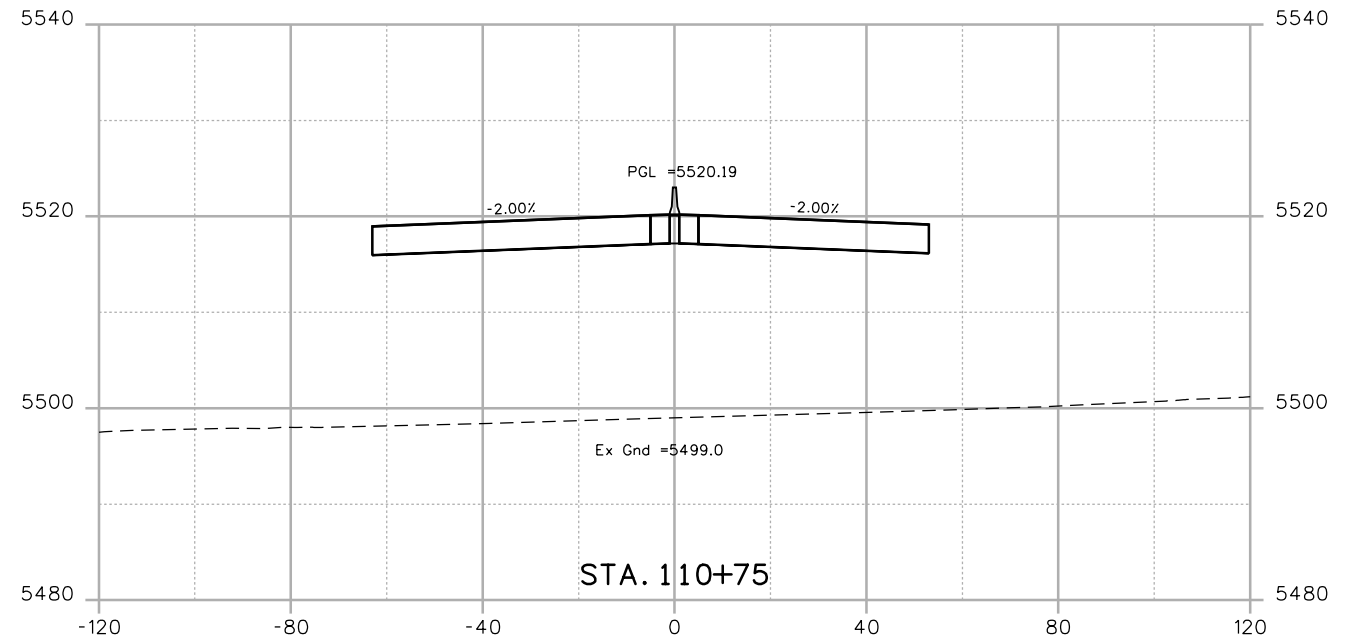
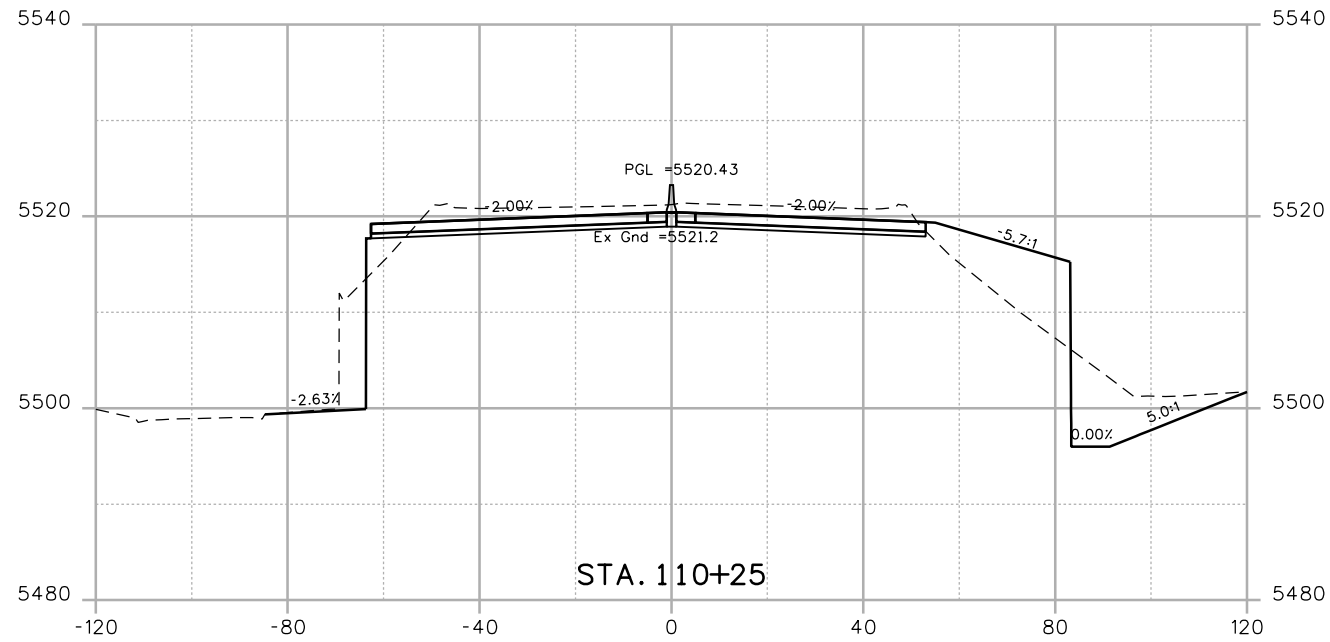
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Project No./Code
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Unit Information	Unit Leader

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Region 1 **KPB**

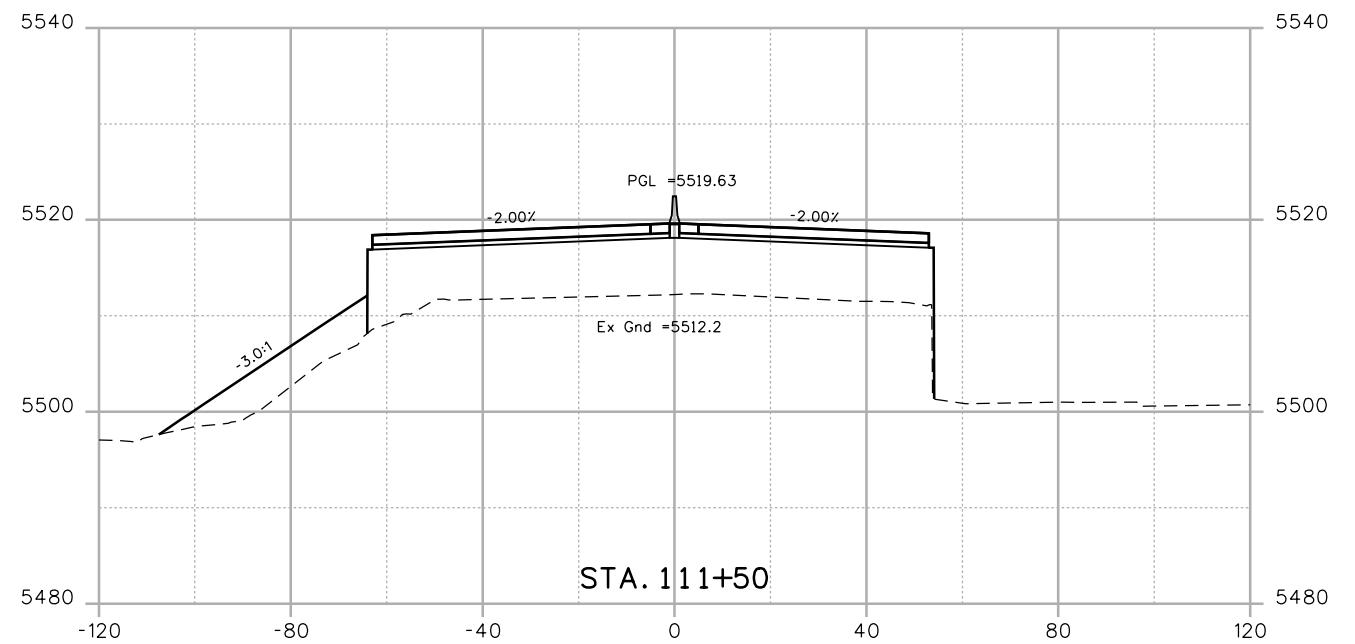
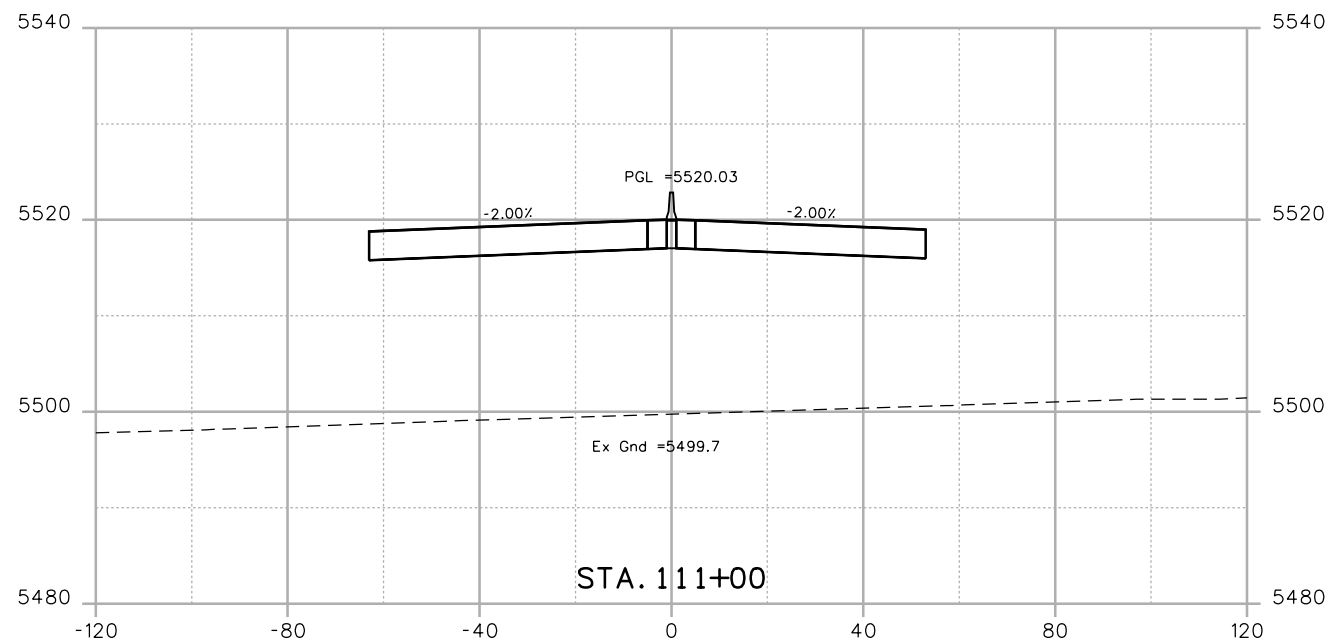
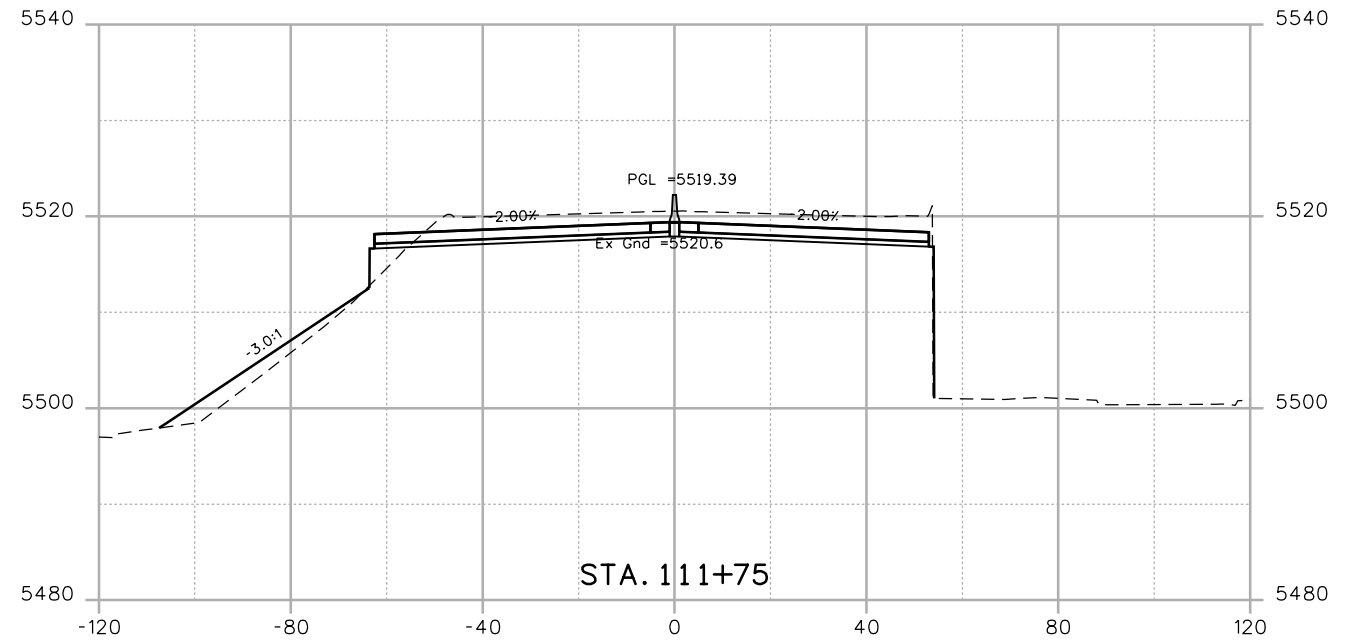
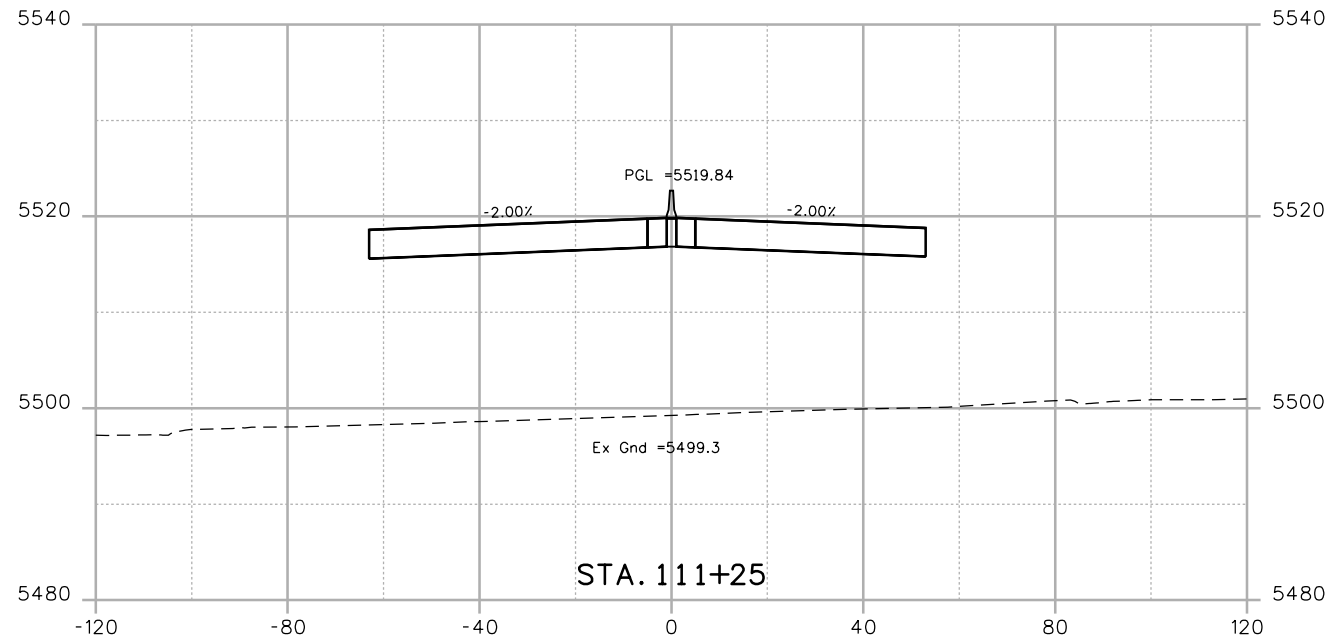
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Project No./Code
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19478
Sheet Number 85

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Sheet Revisions		
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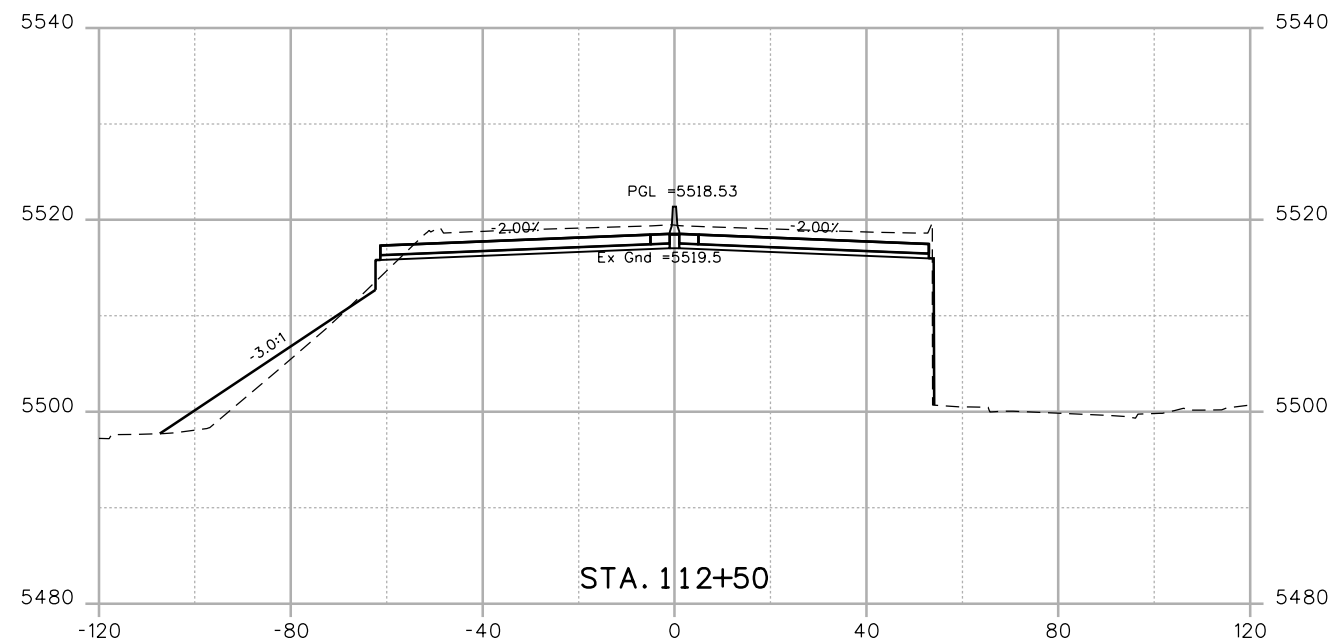
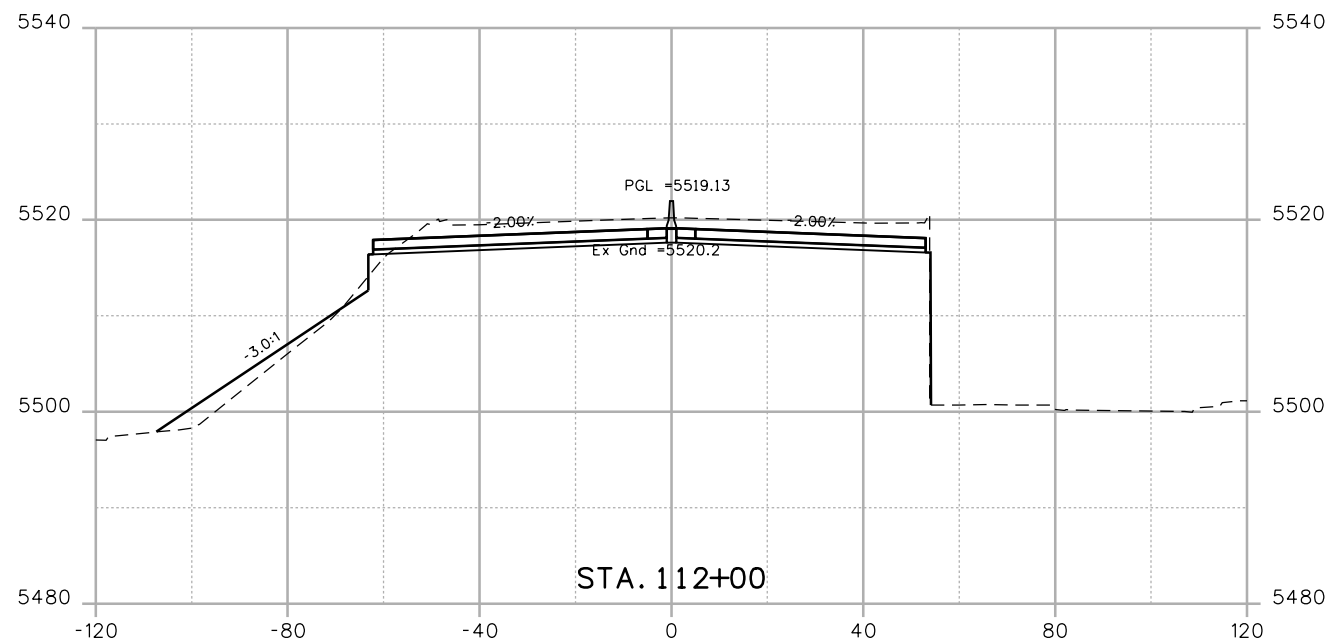
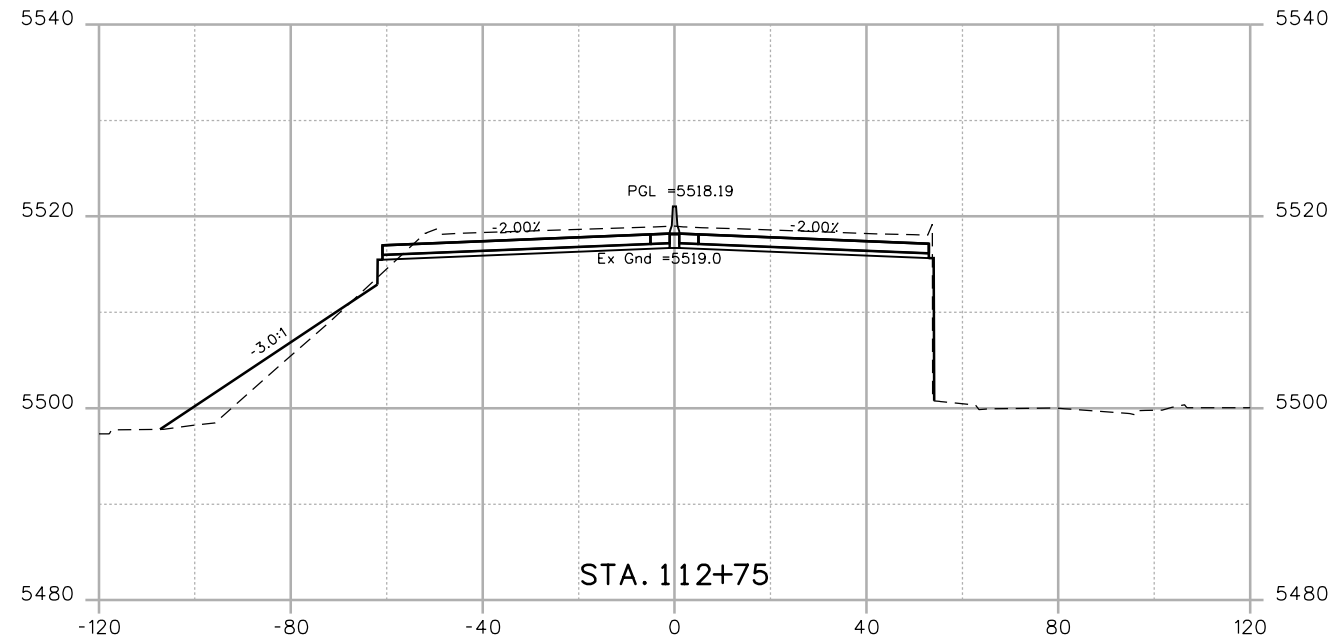
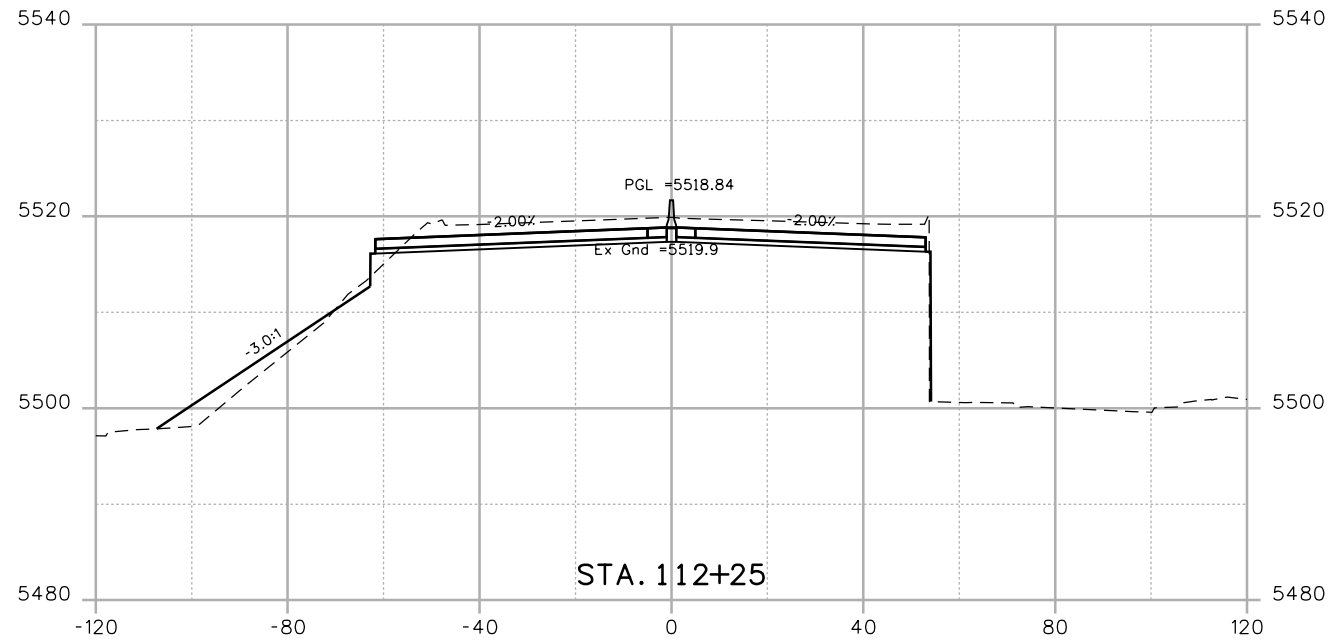
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Project No./Code
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 Sheet Number **86**

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Unit Information	Unit Leader

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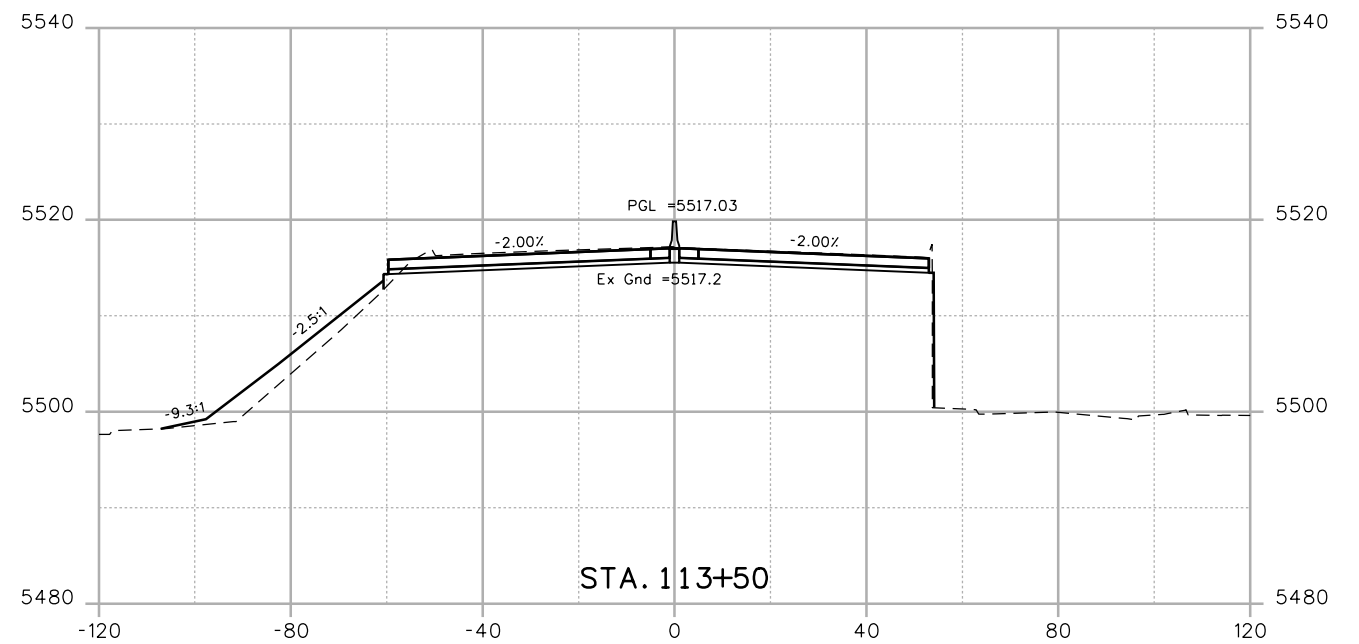
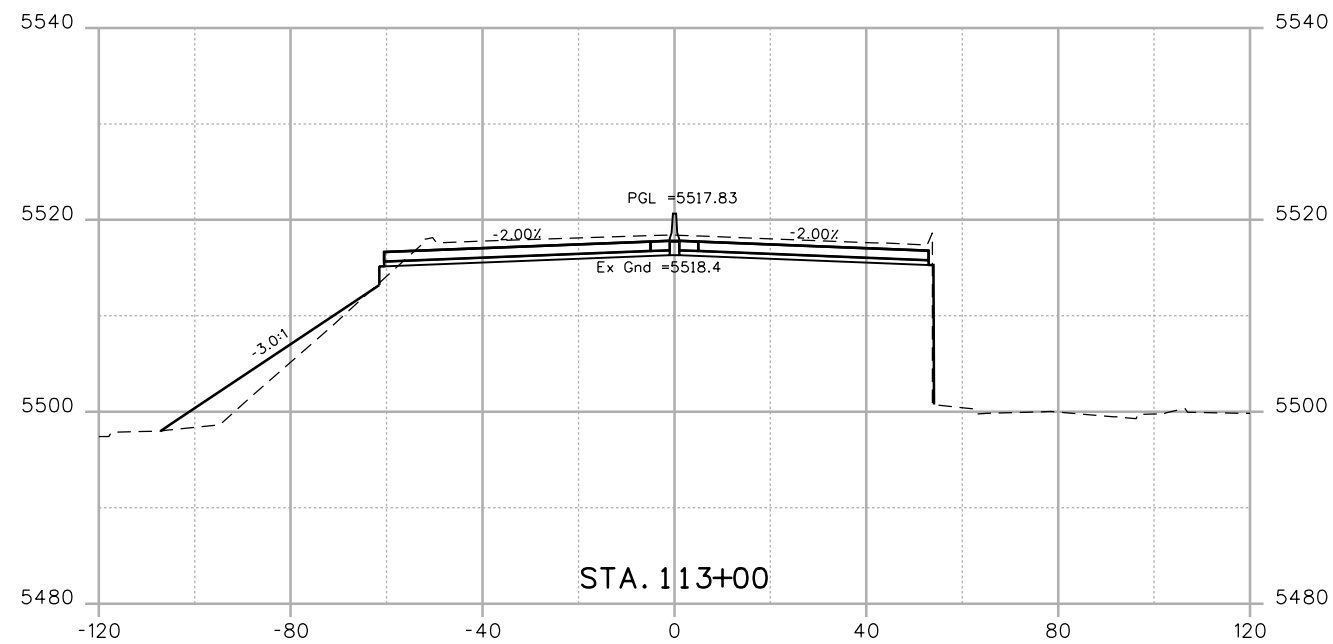
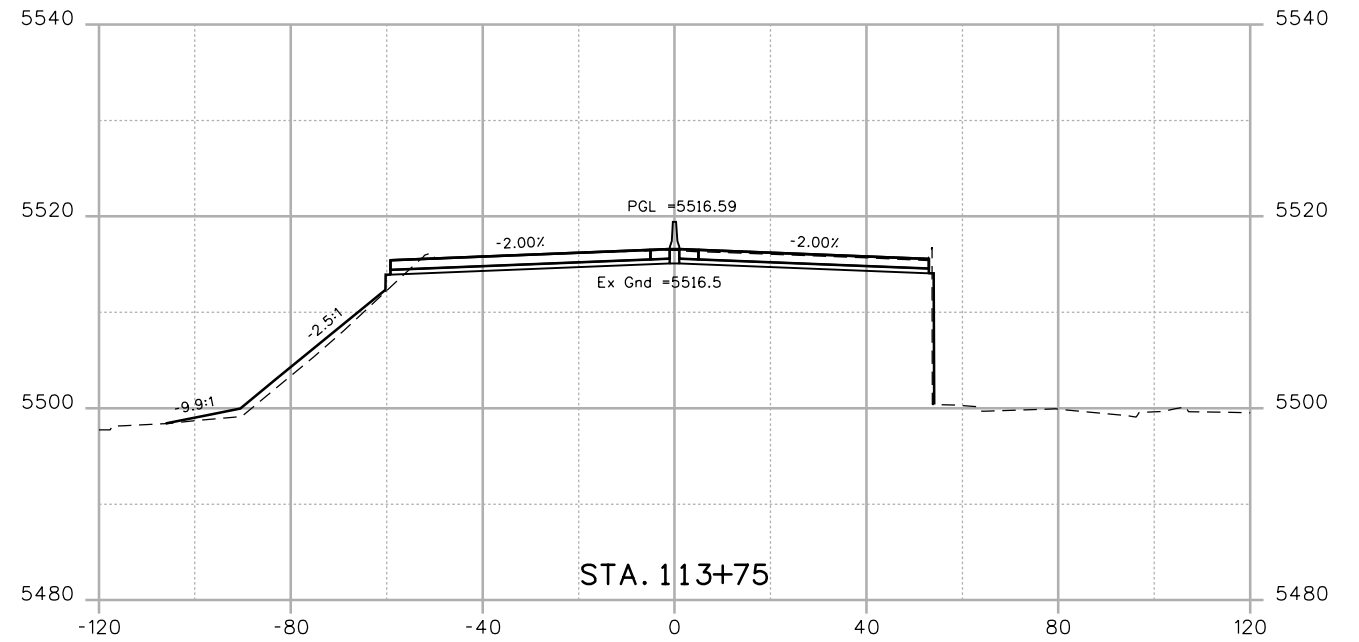
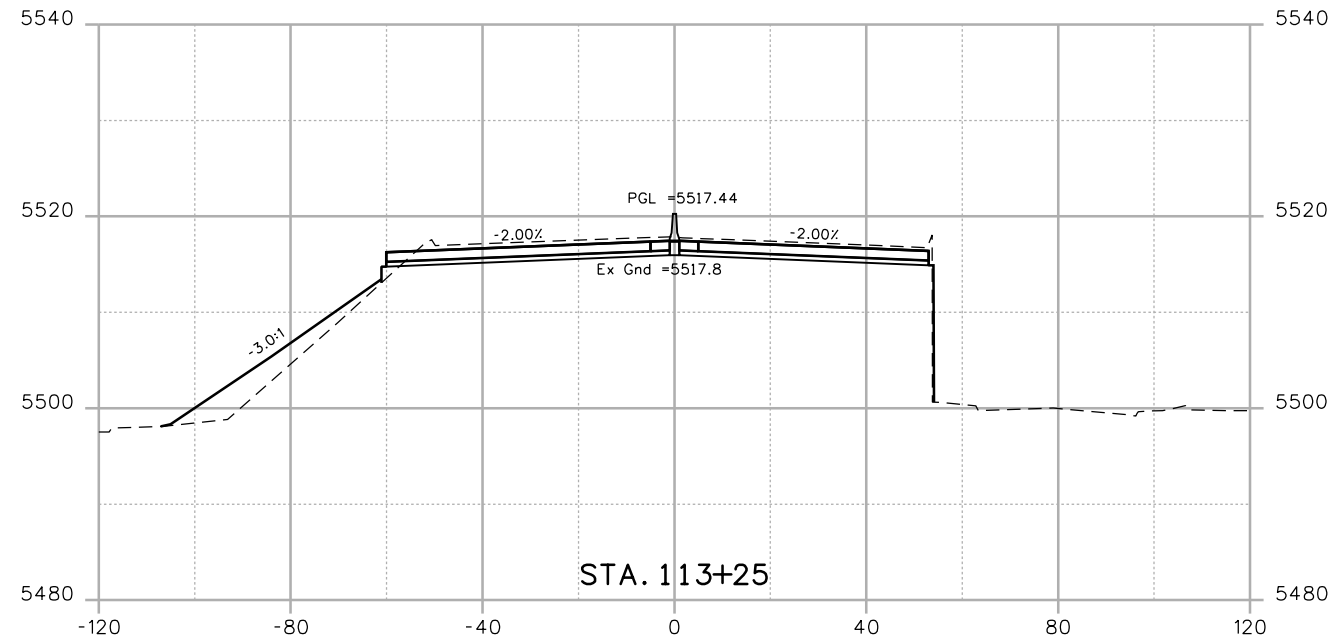
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Project No./Code
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Sheet Number 87


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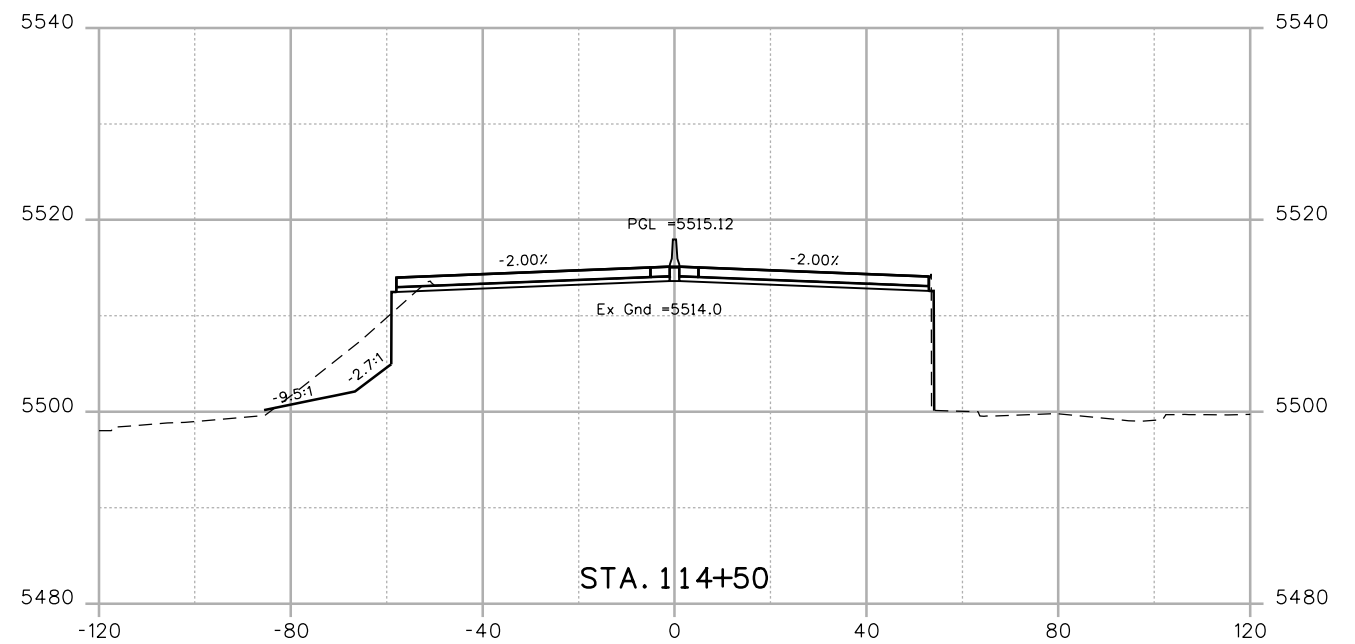
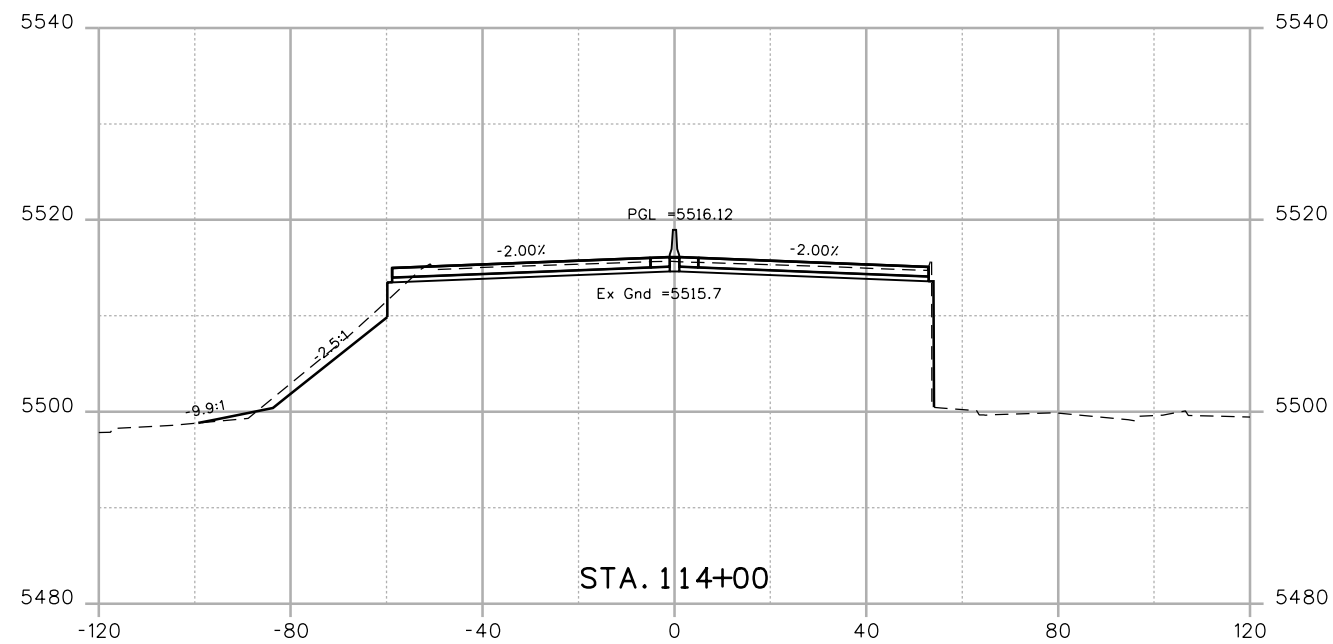
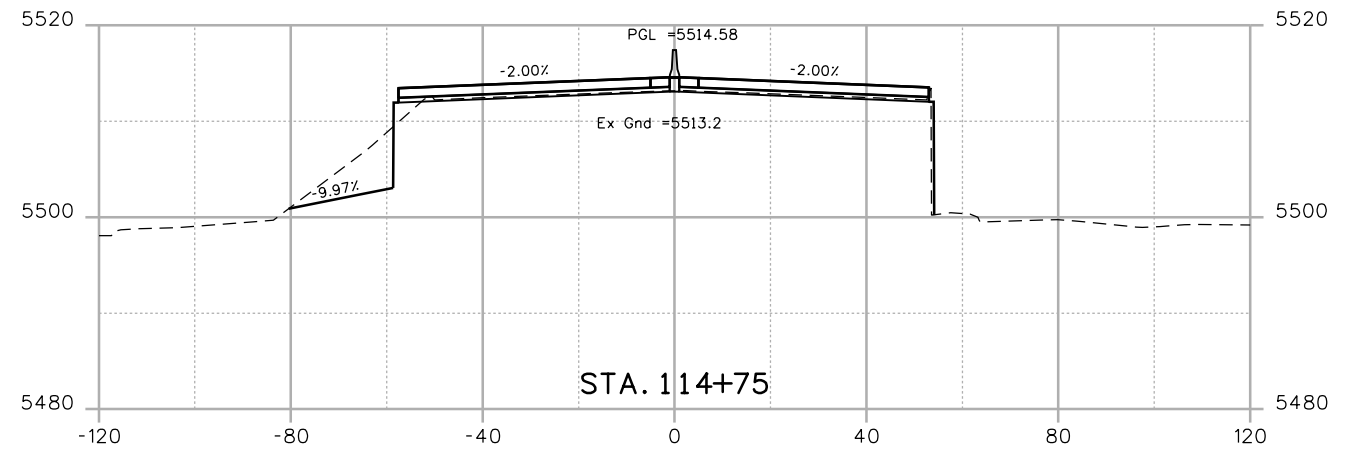
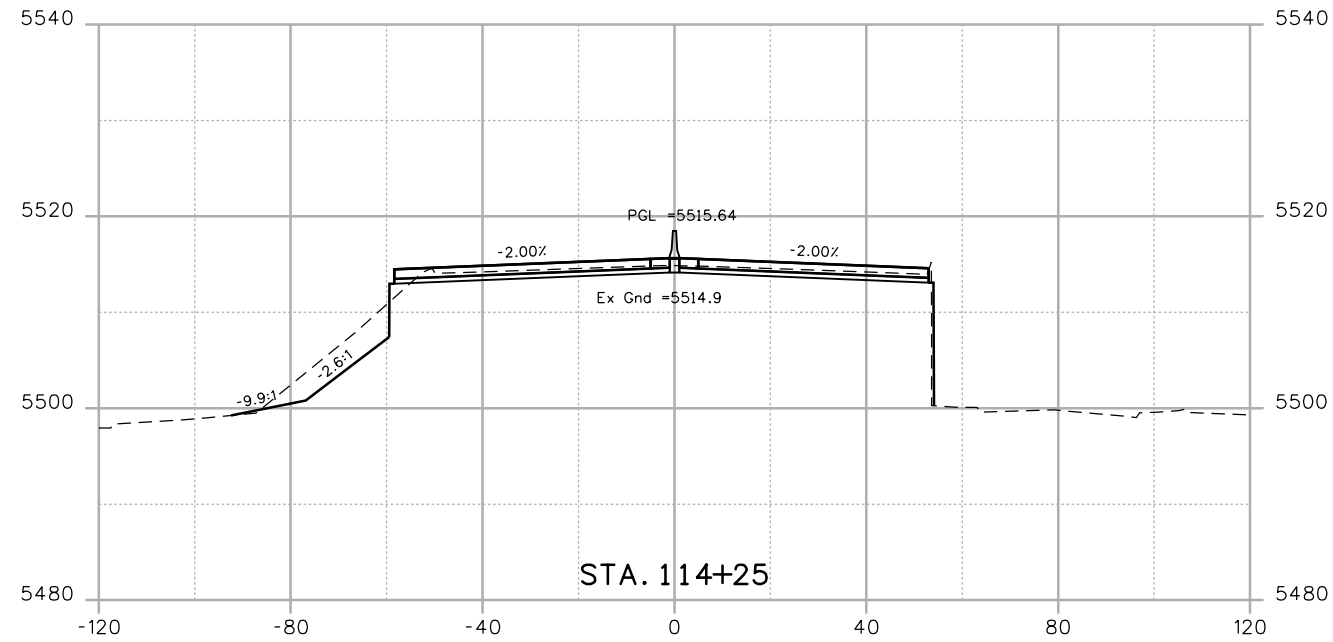
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Project No./Code
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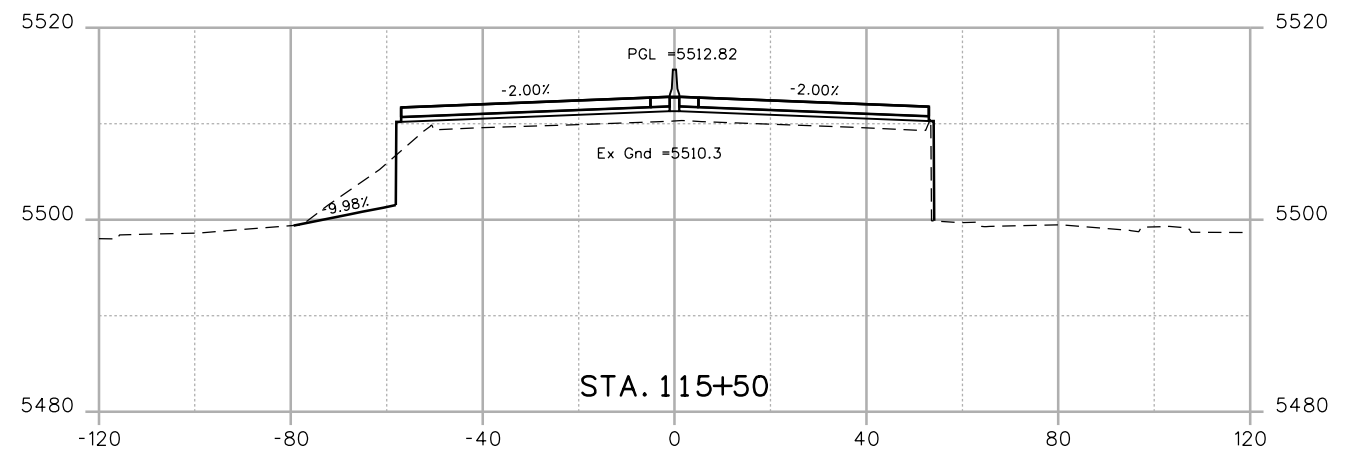
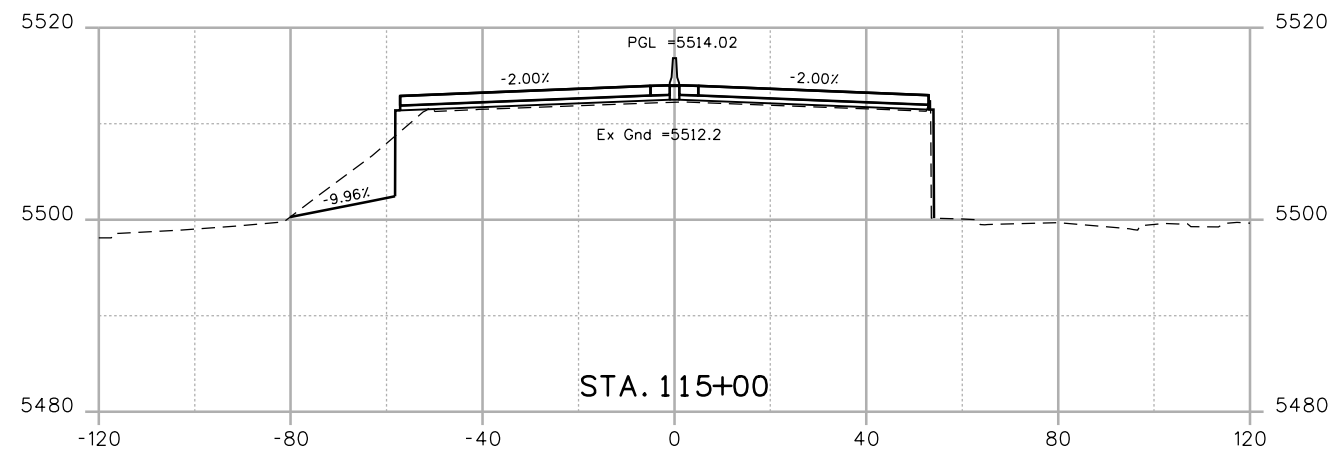
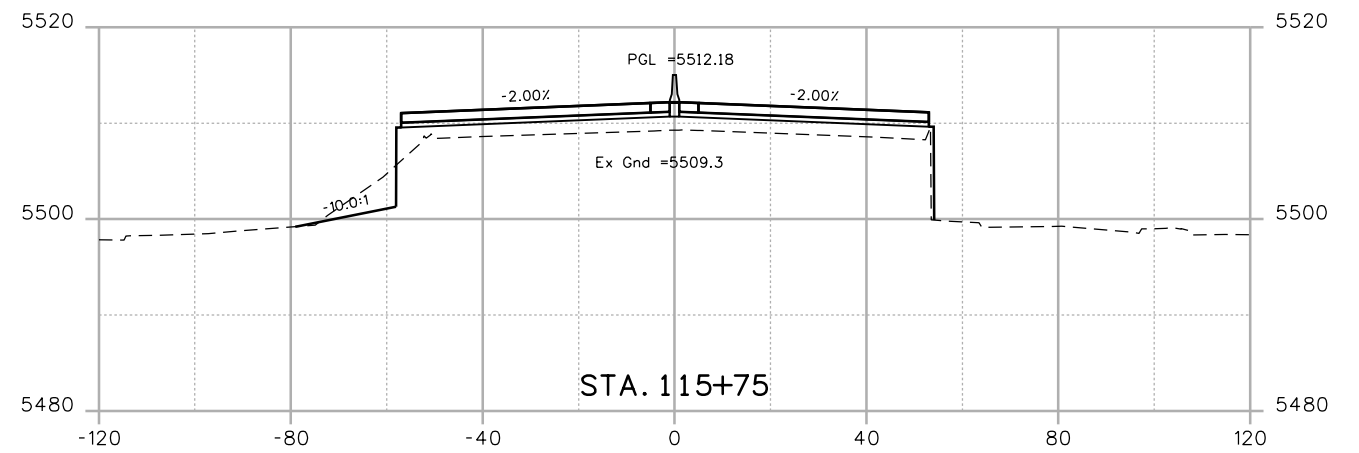
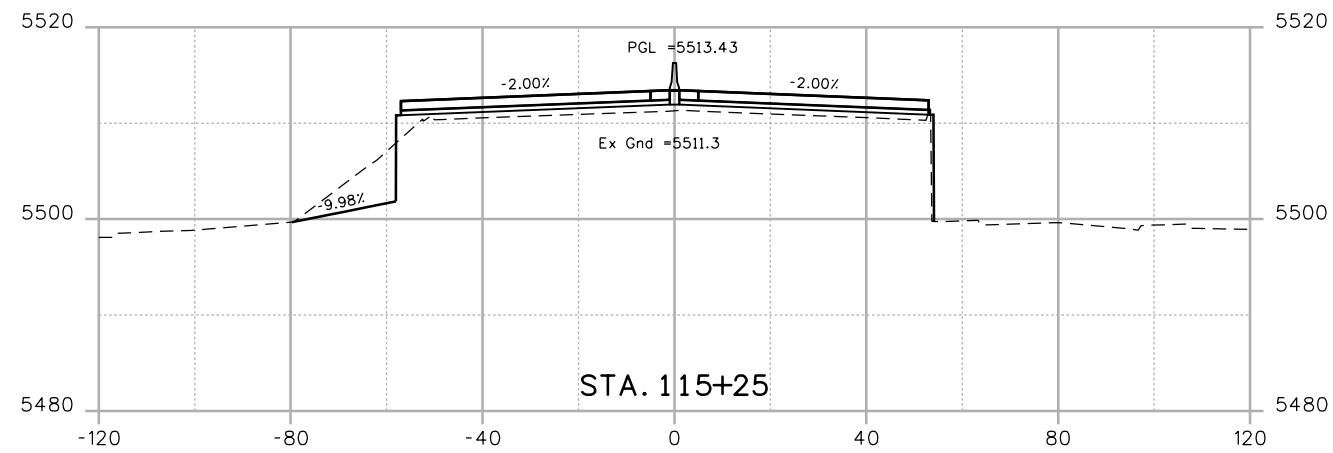
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Sheet Revisions		
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Region 1 **KPB**

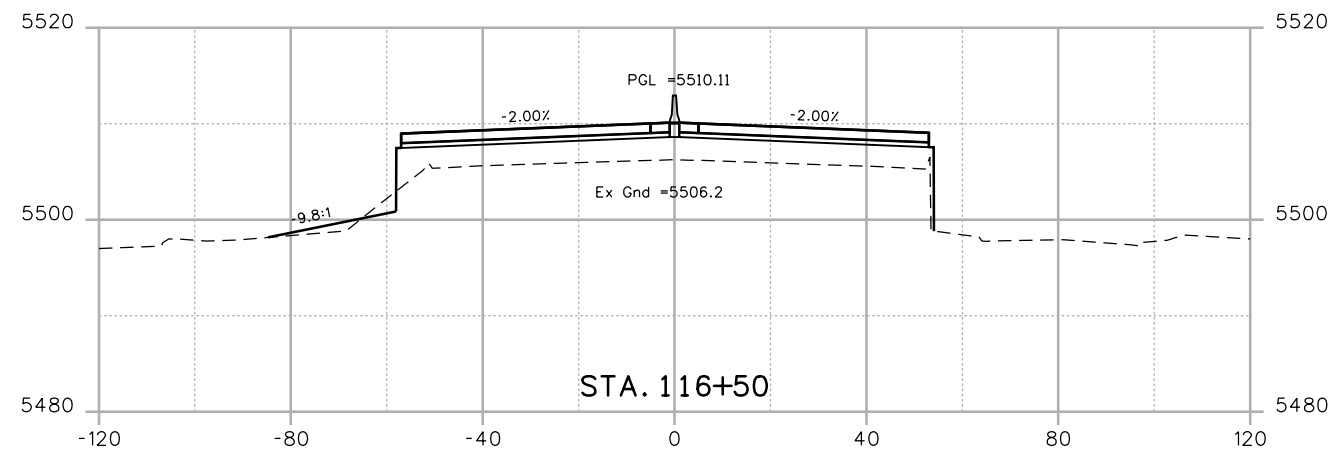
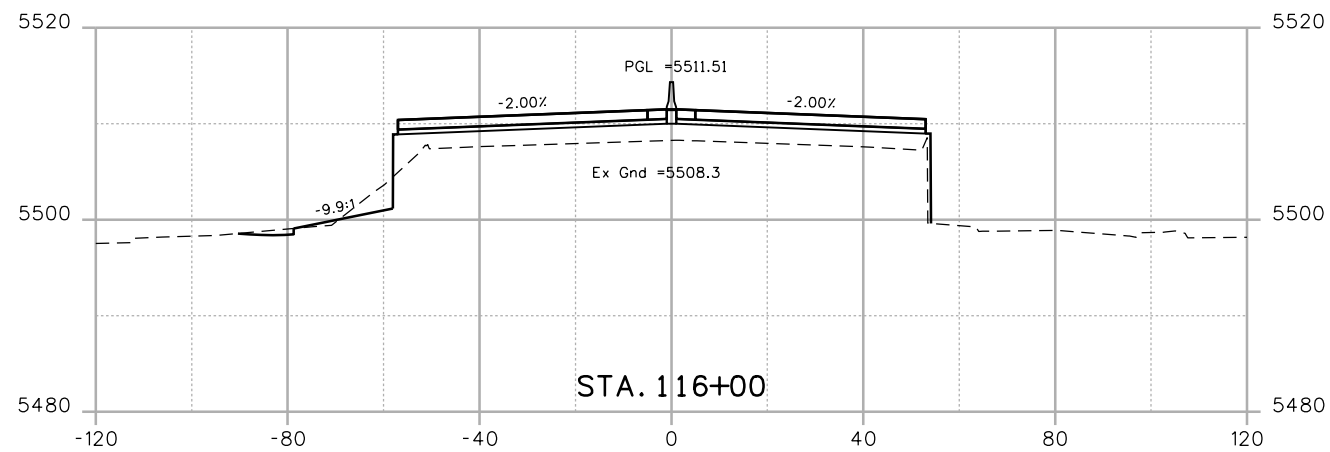
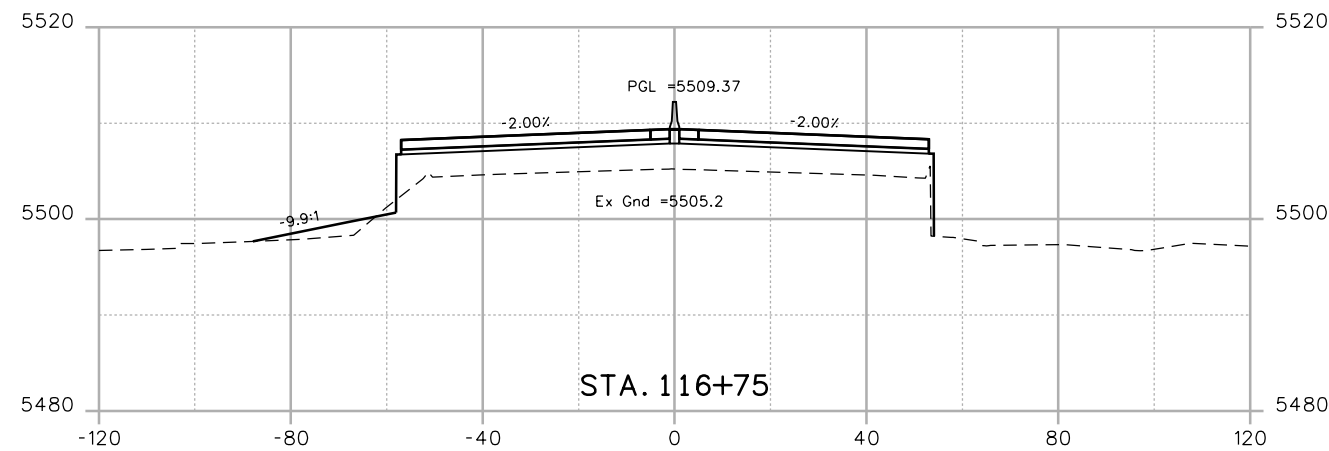
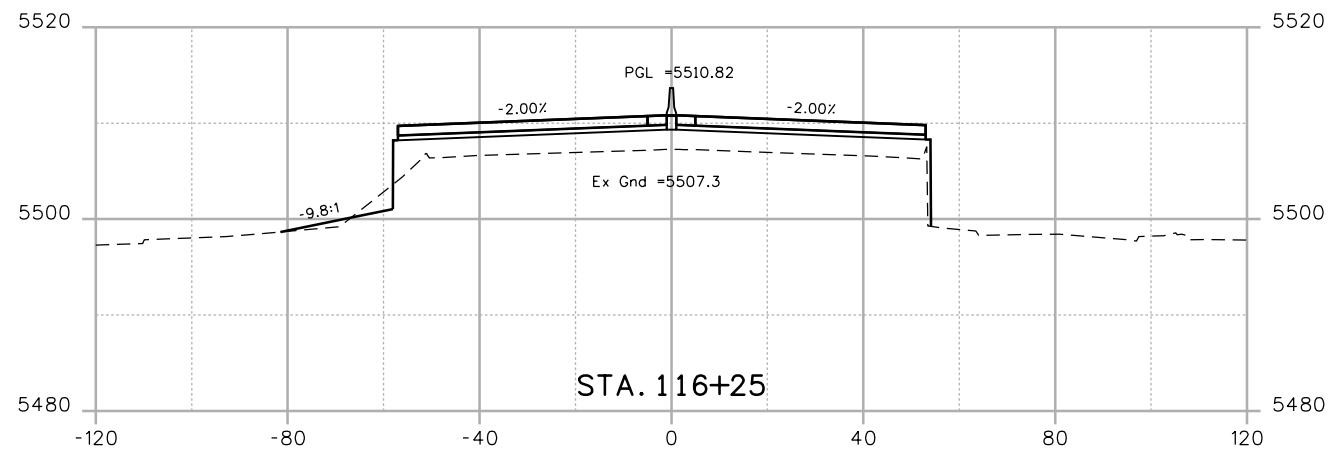
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Project No./Code
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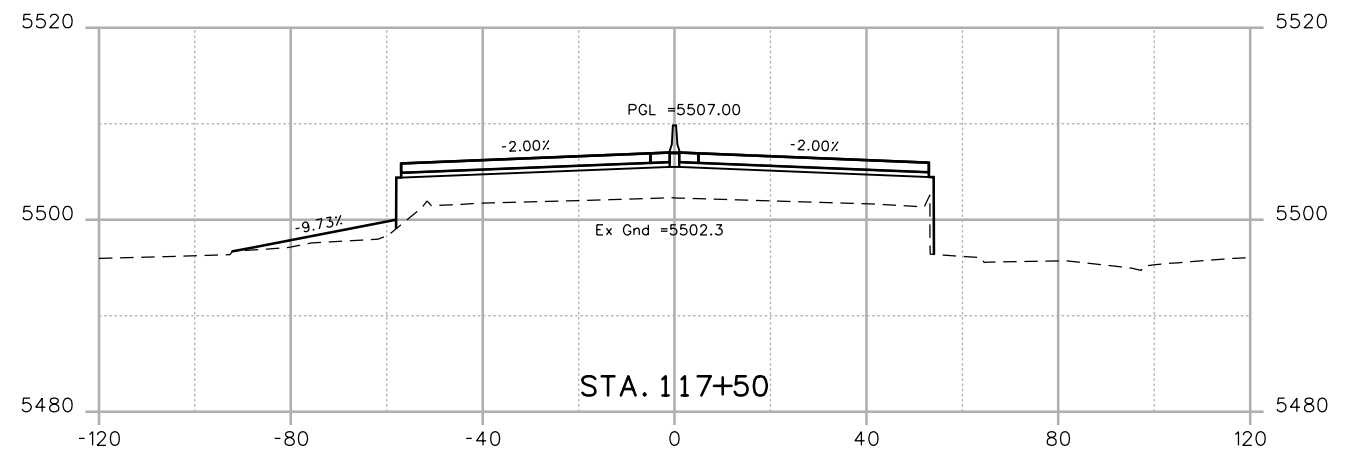
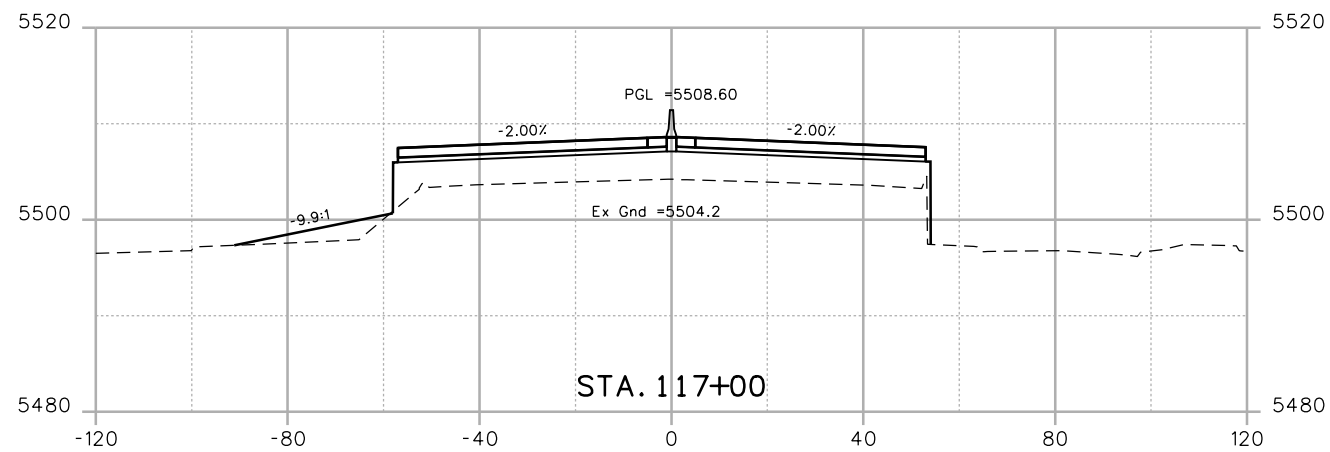
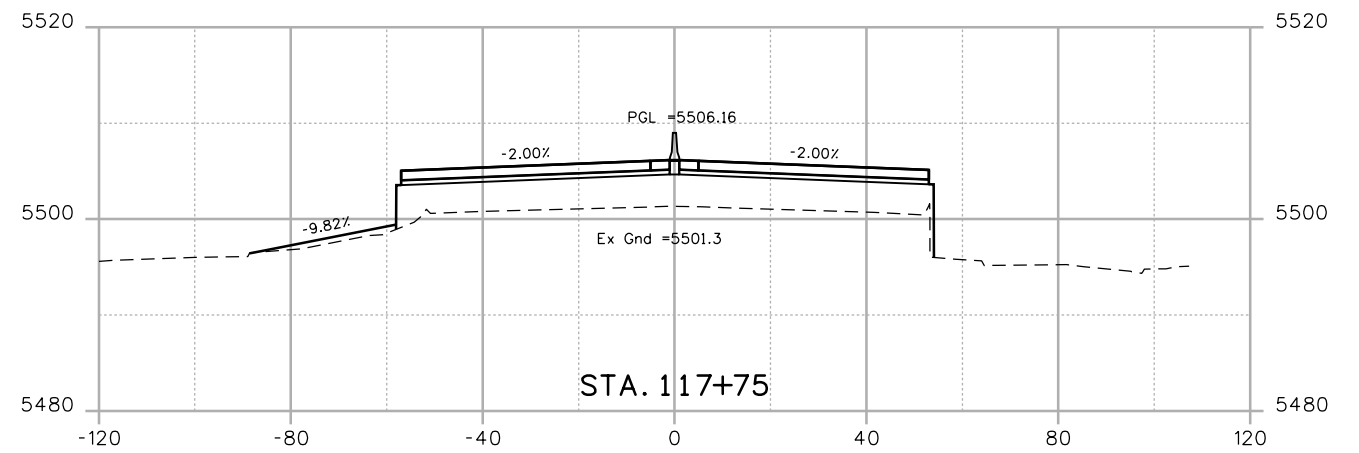
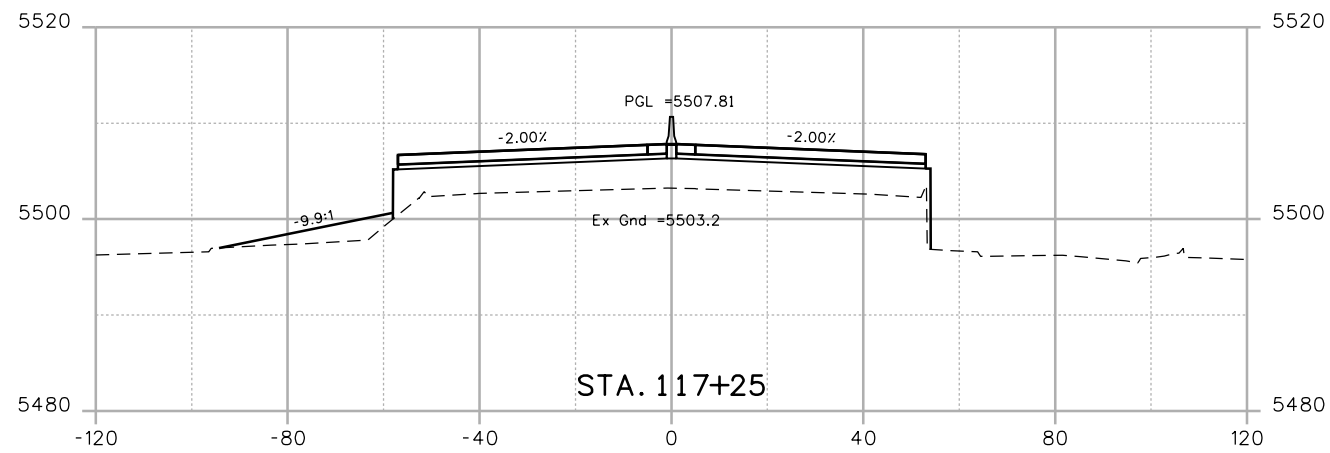
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Project No./Code
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19478
Sheet Number 91

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Unit Information	Unit Leader

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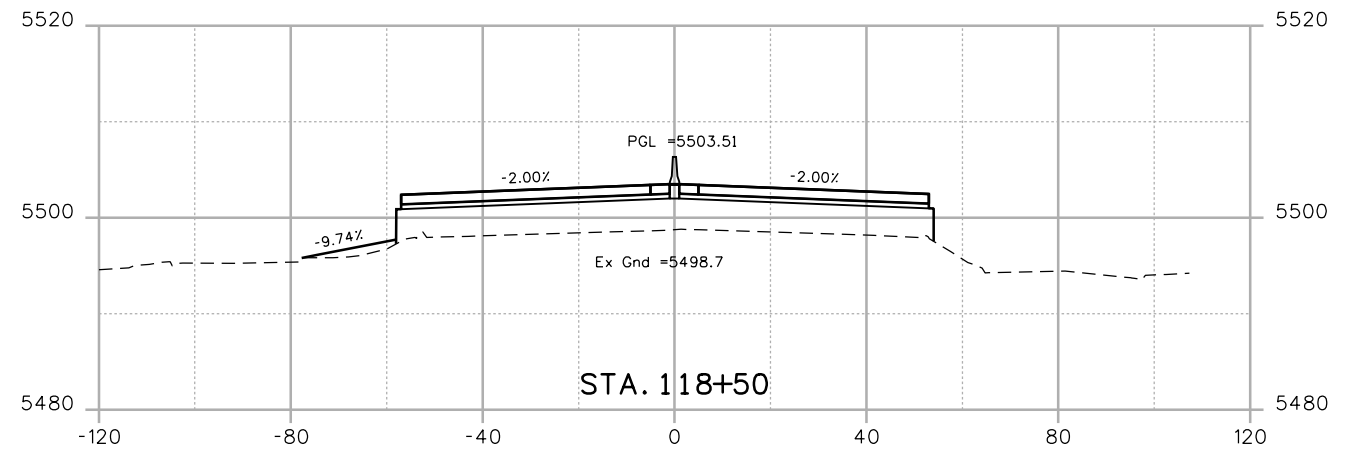
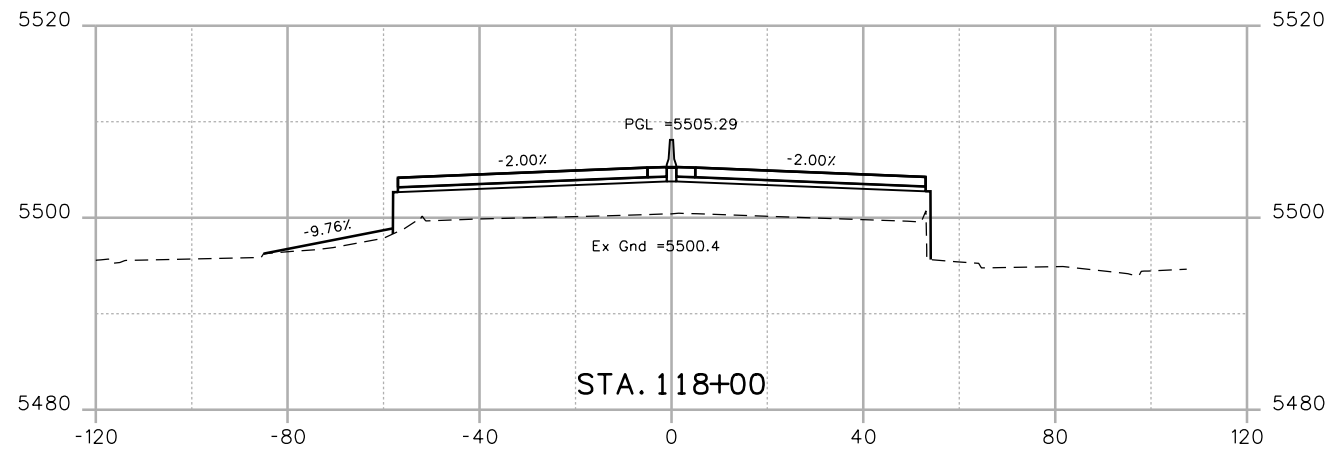
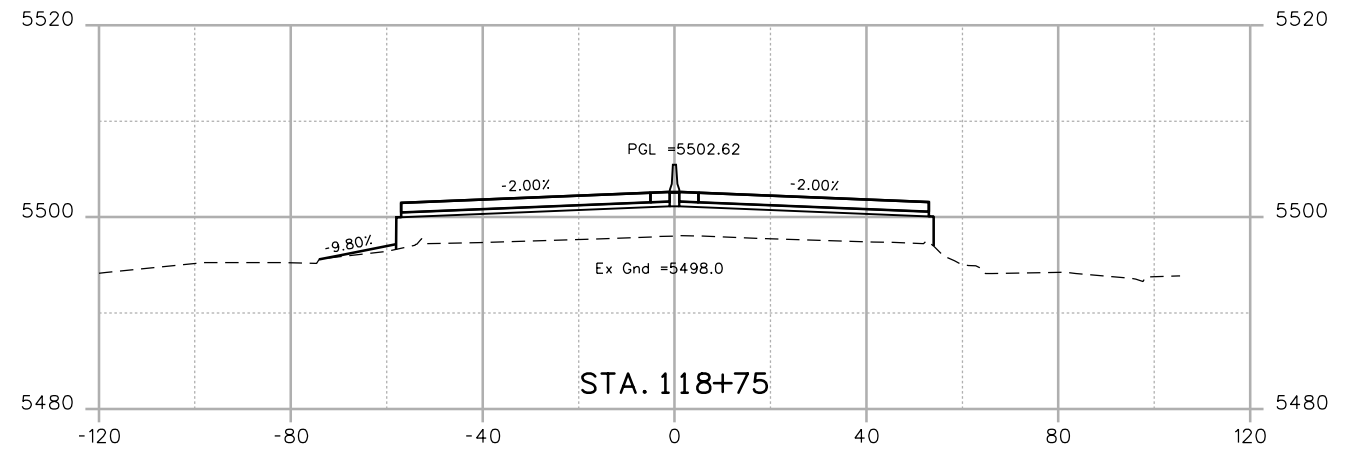
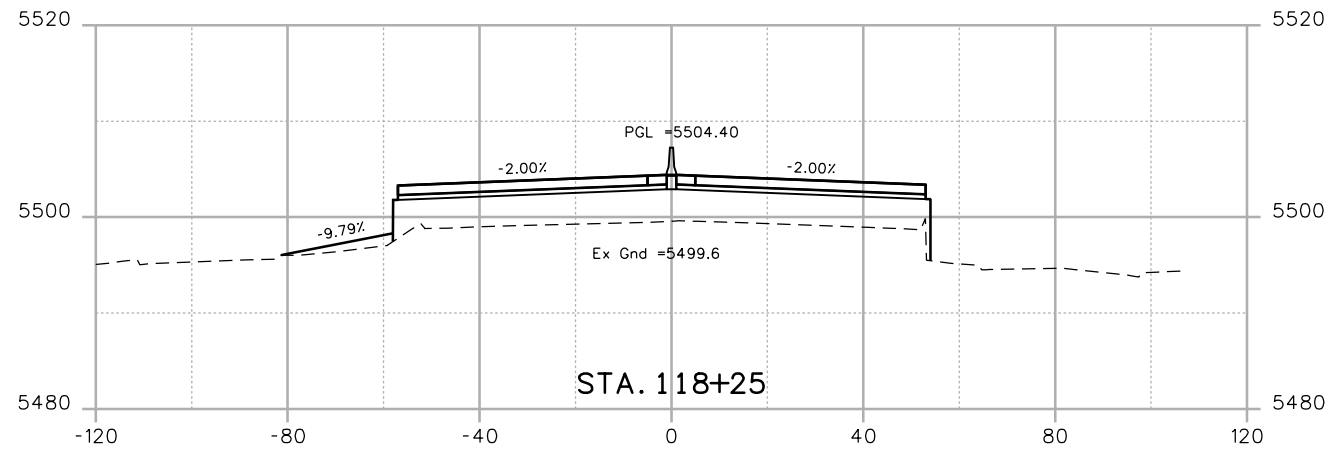
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Sheet Number	92

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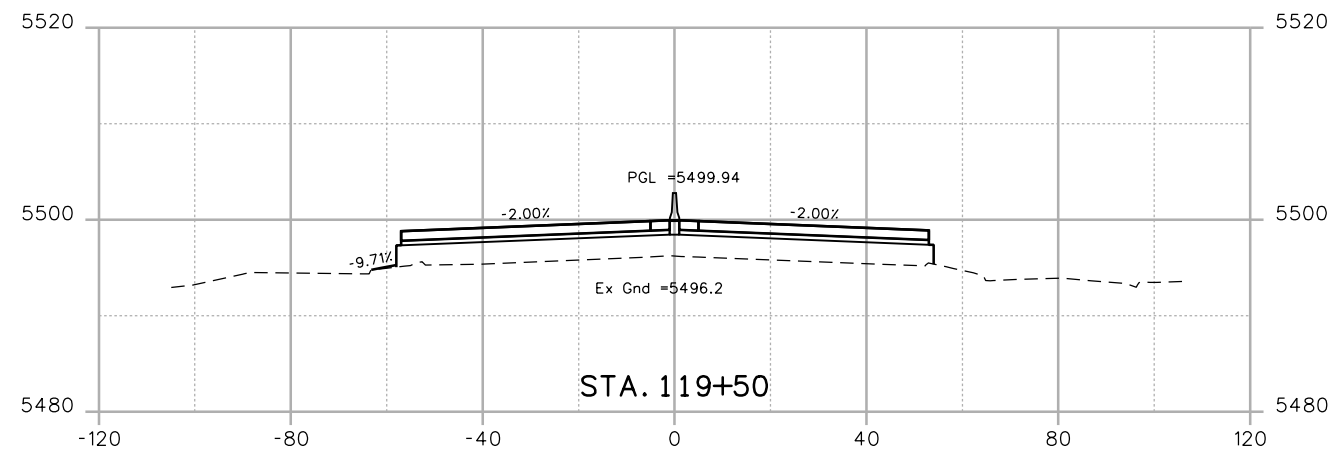
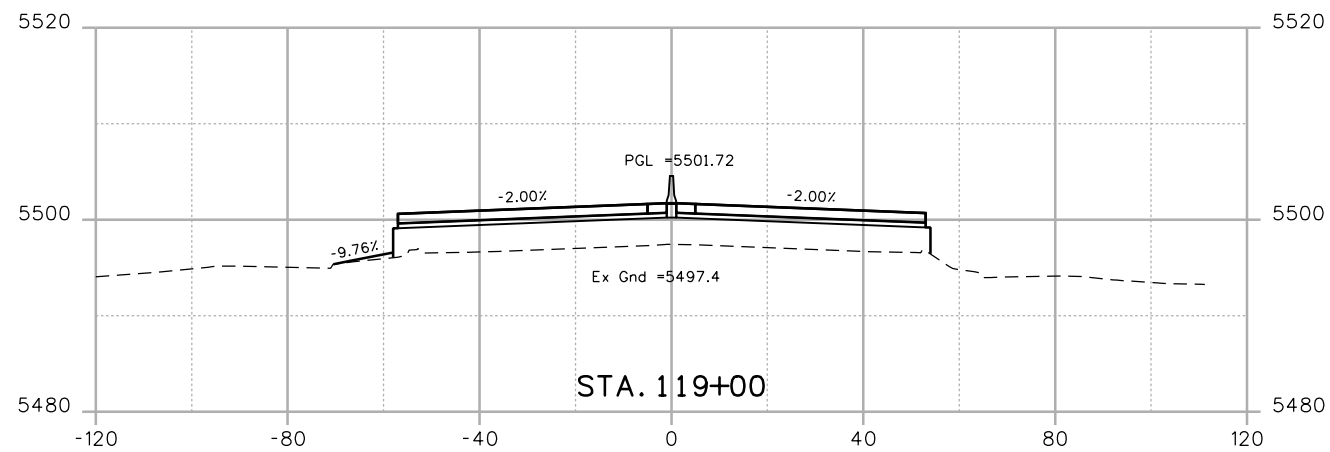
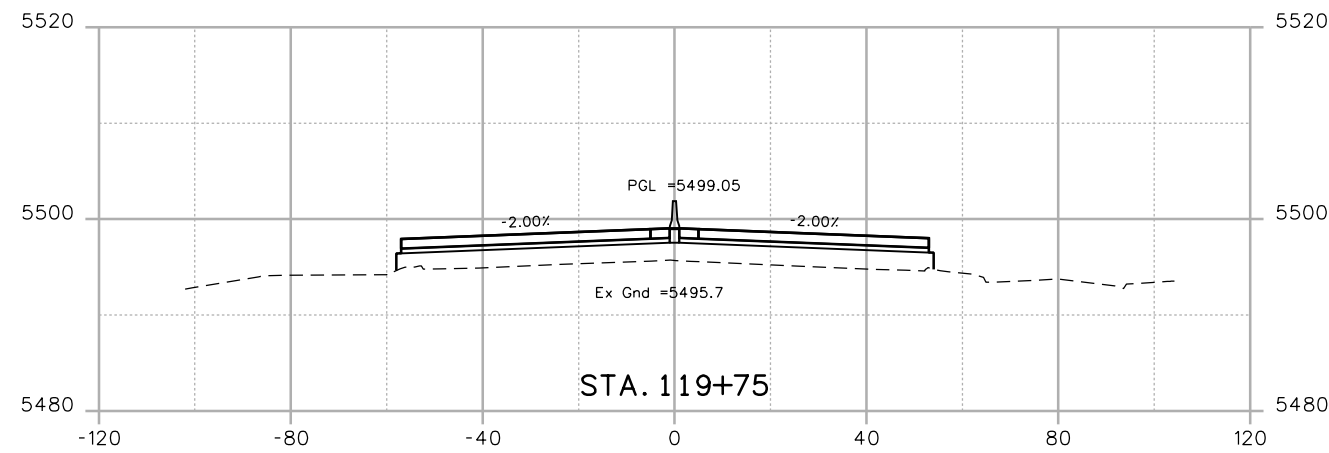
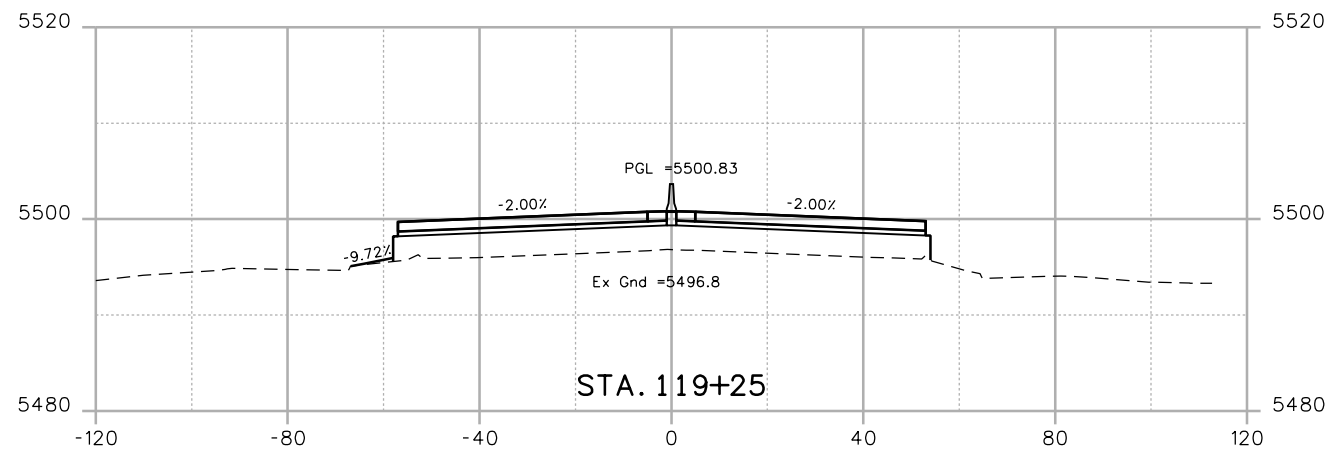
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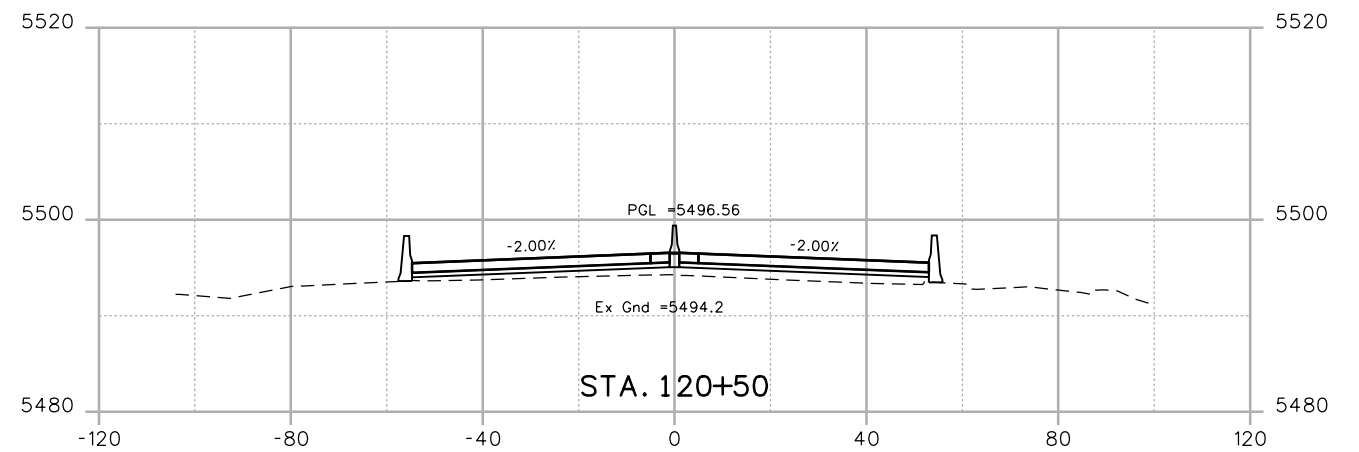
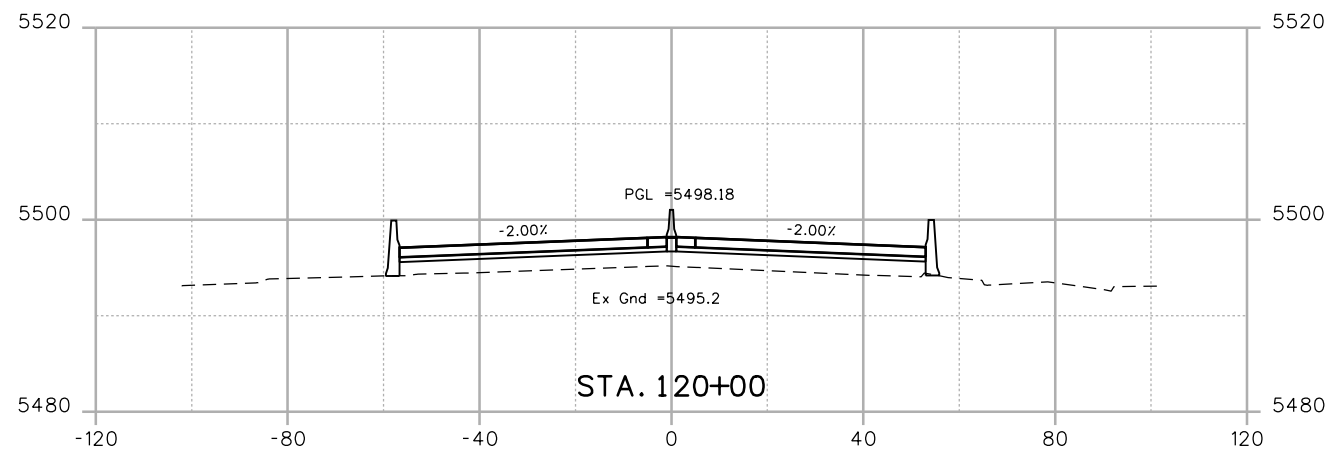
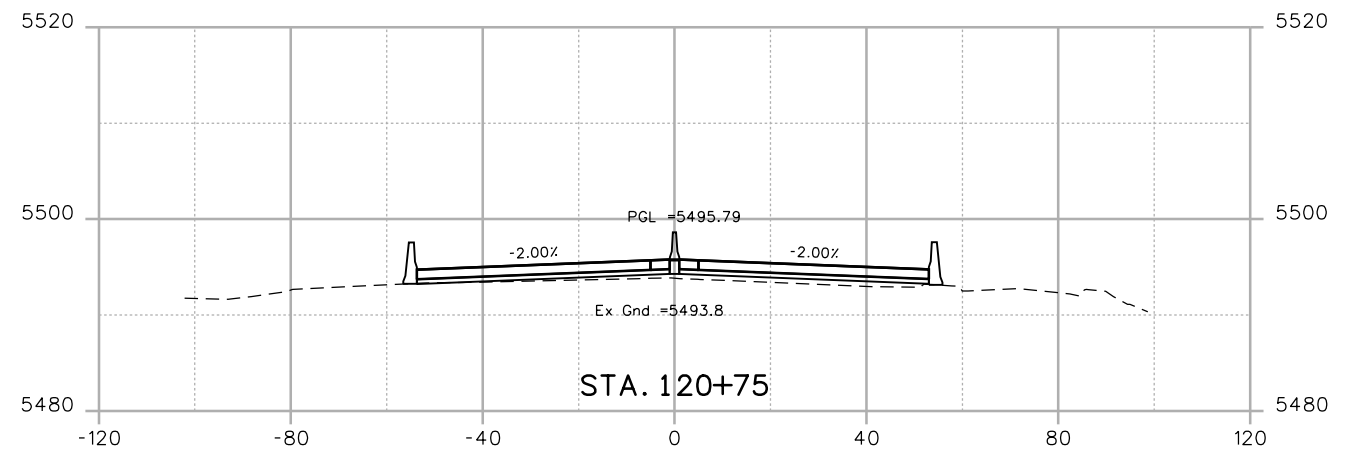
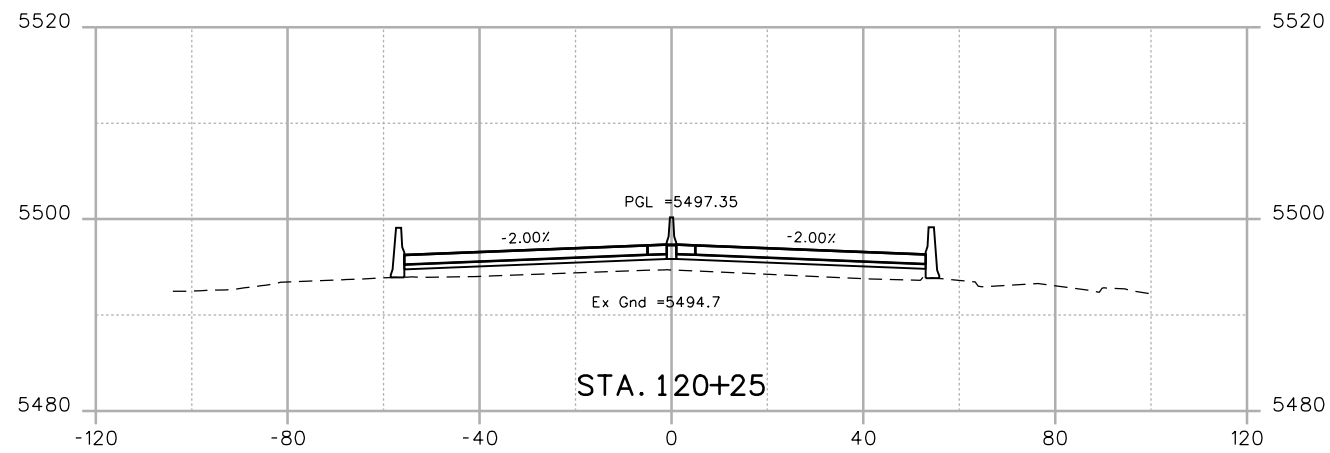
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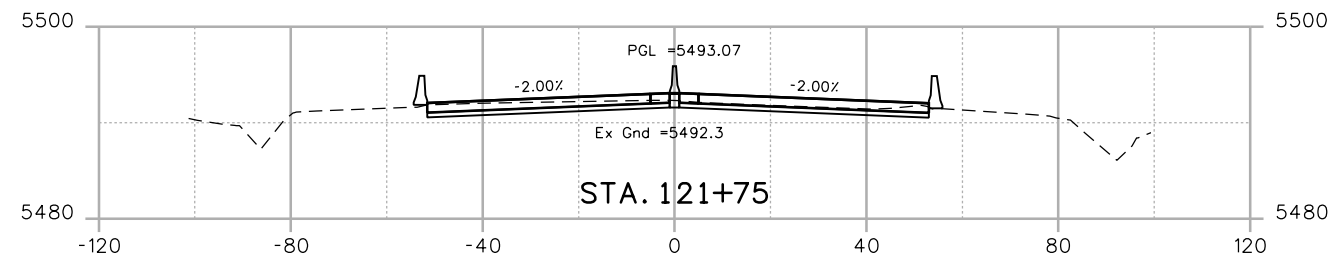
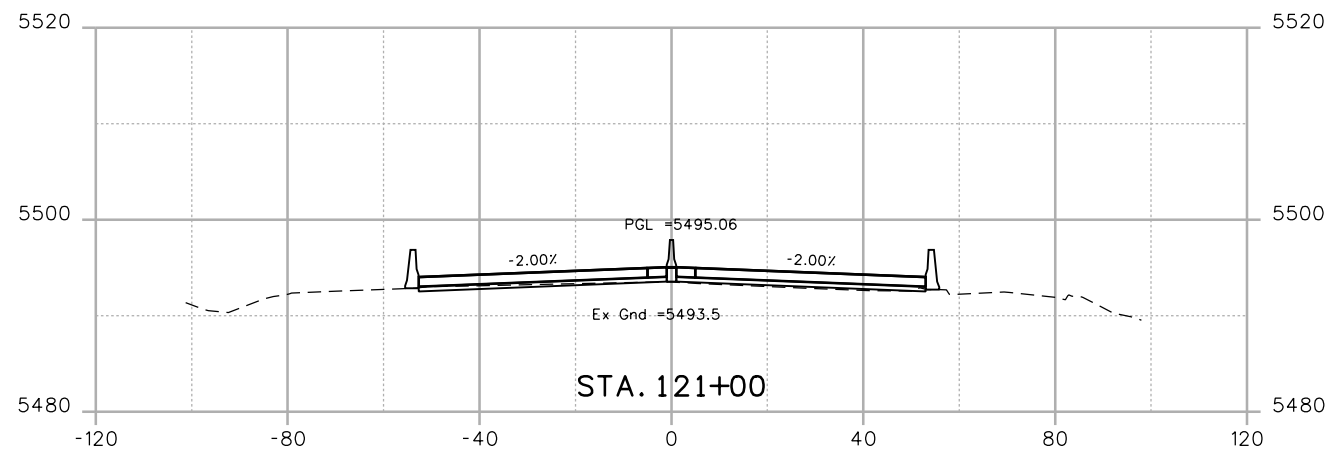
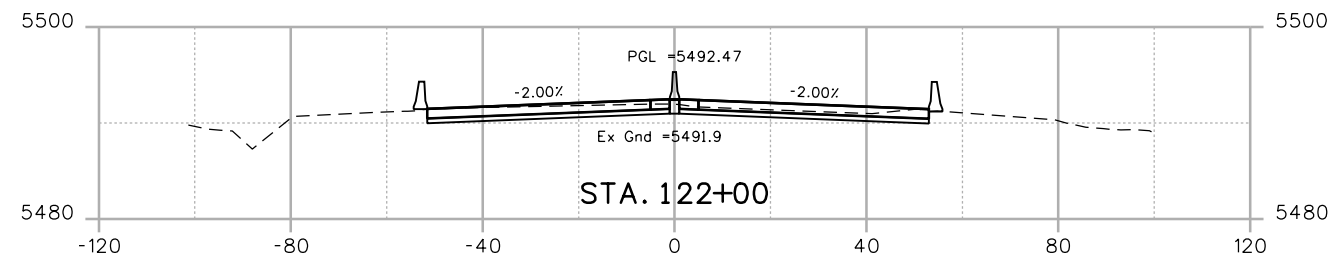
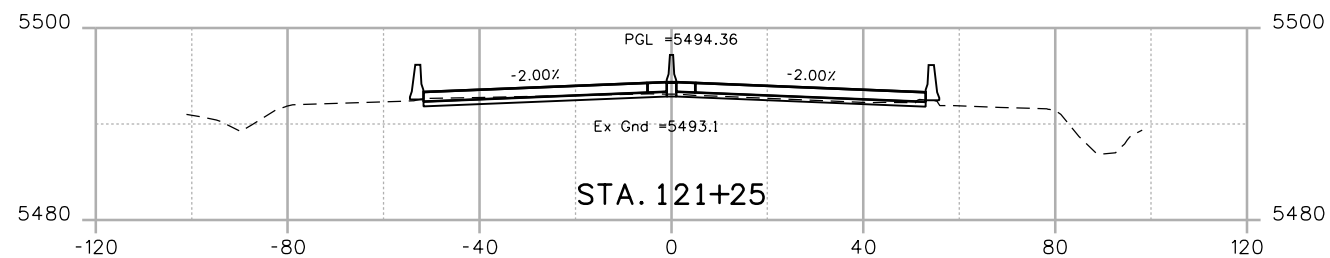
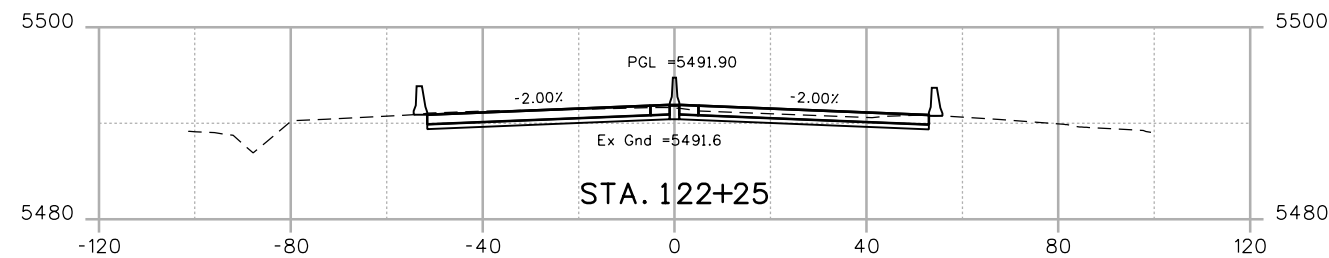
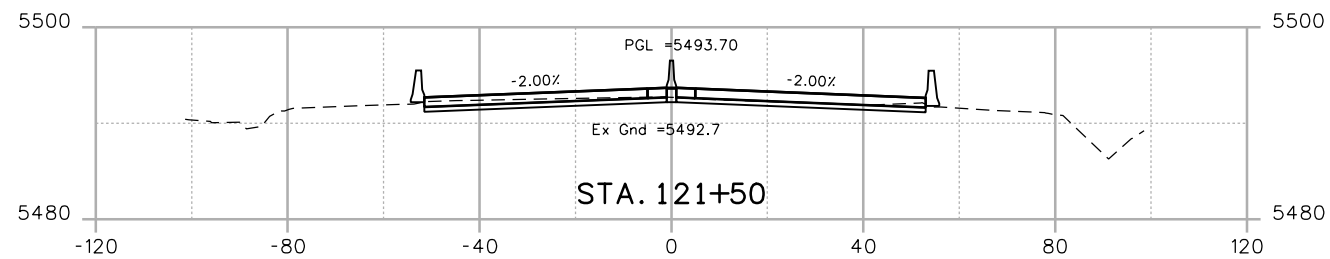
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Project No./Code
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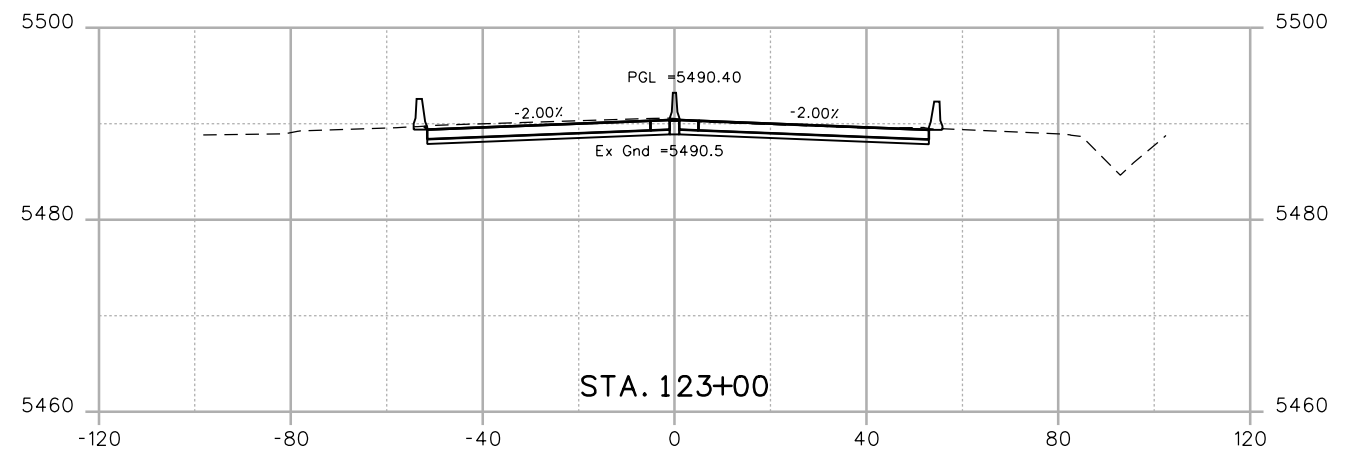
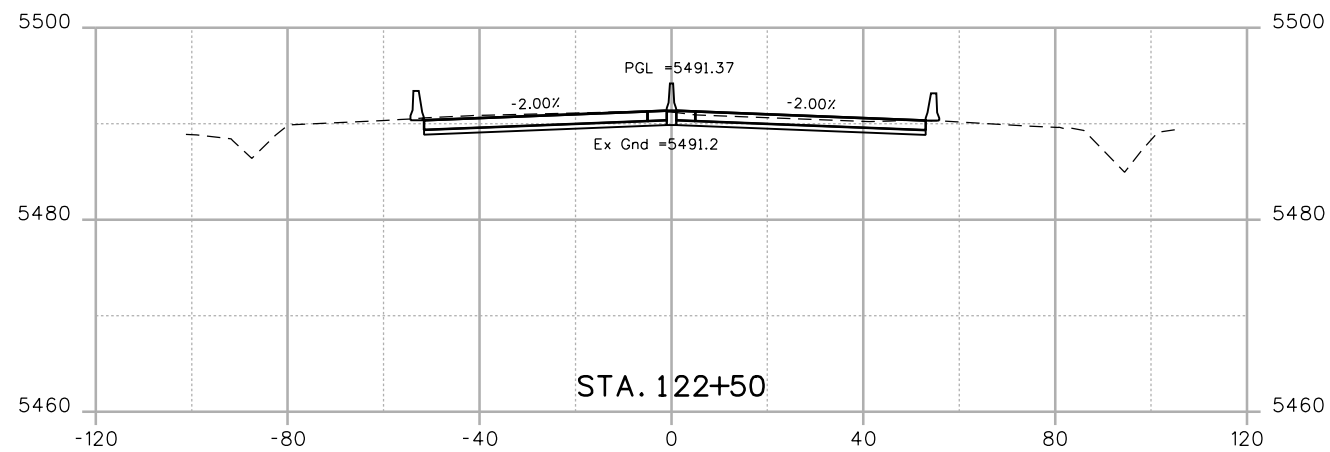
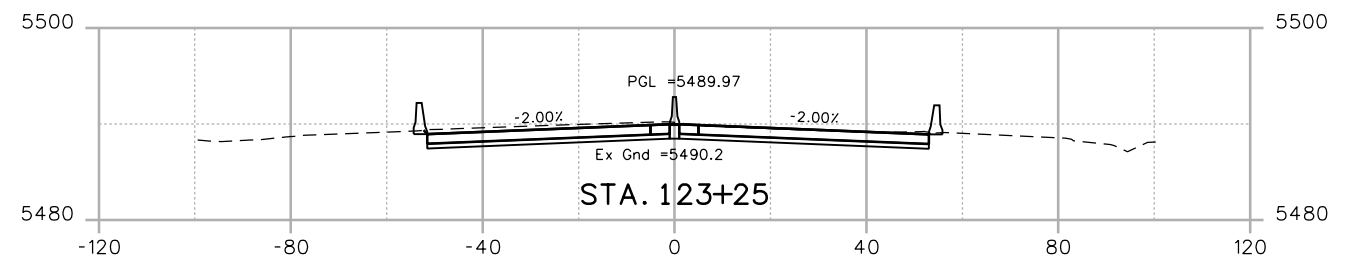
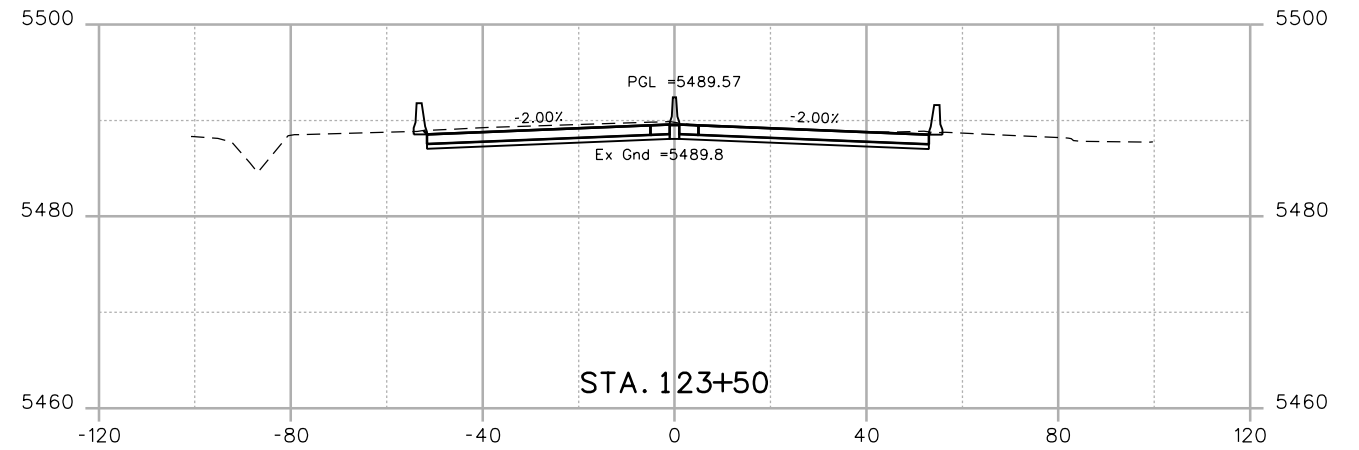
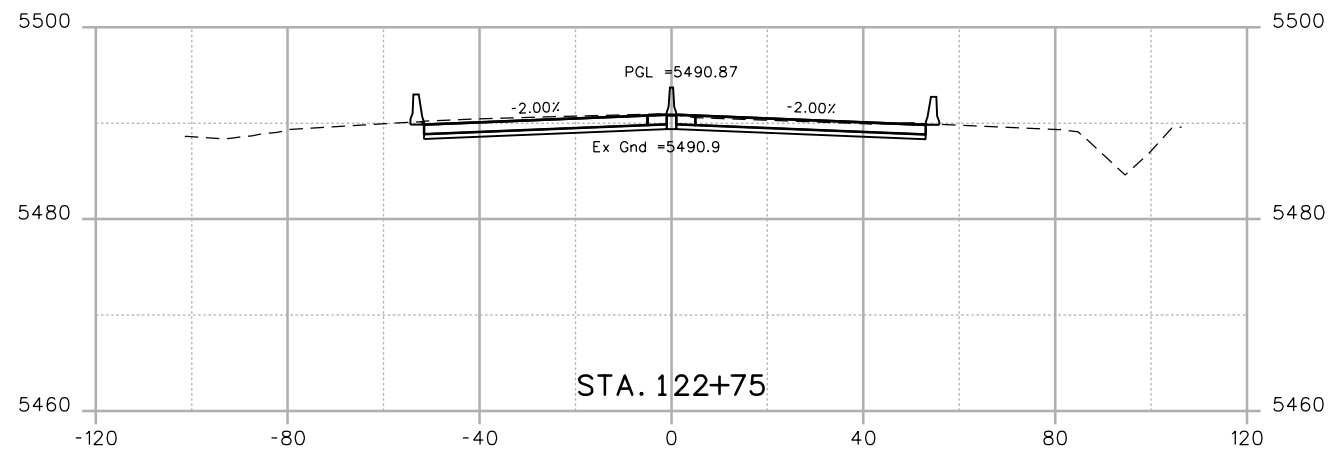
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Project No./Code
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 Sheet Number **96**

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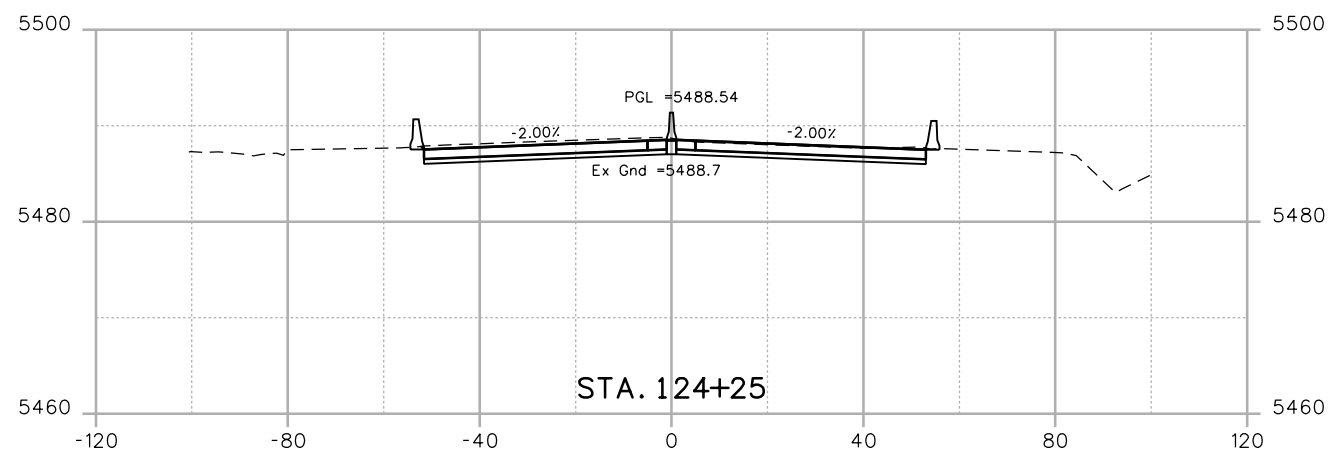
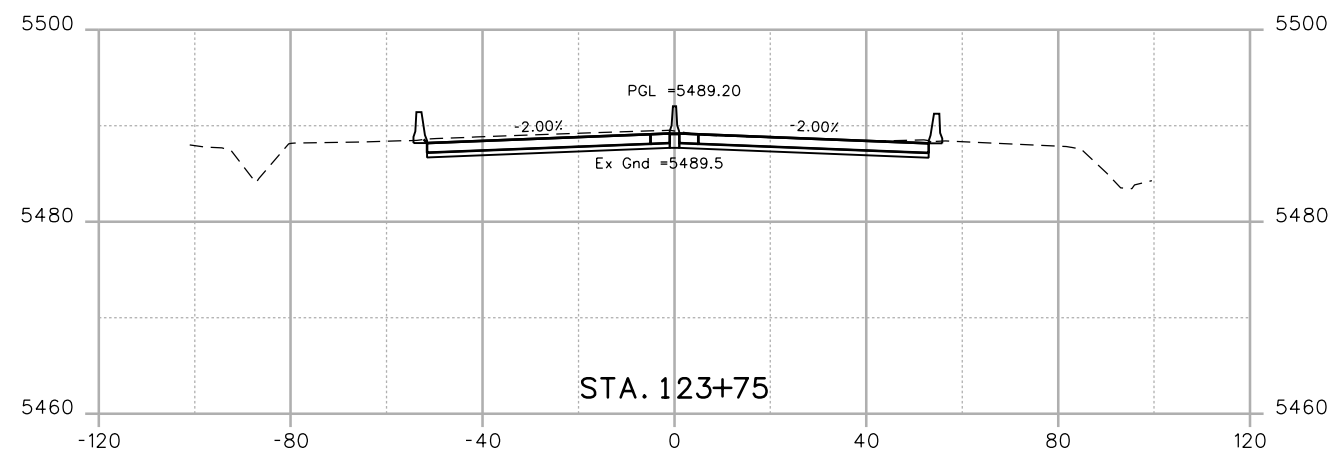
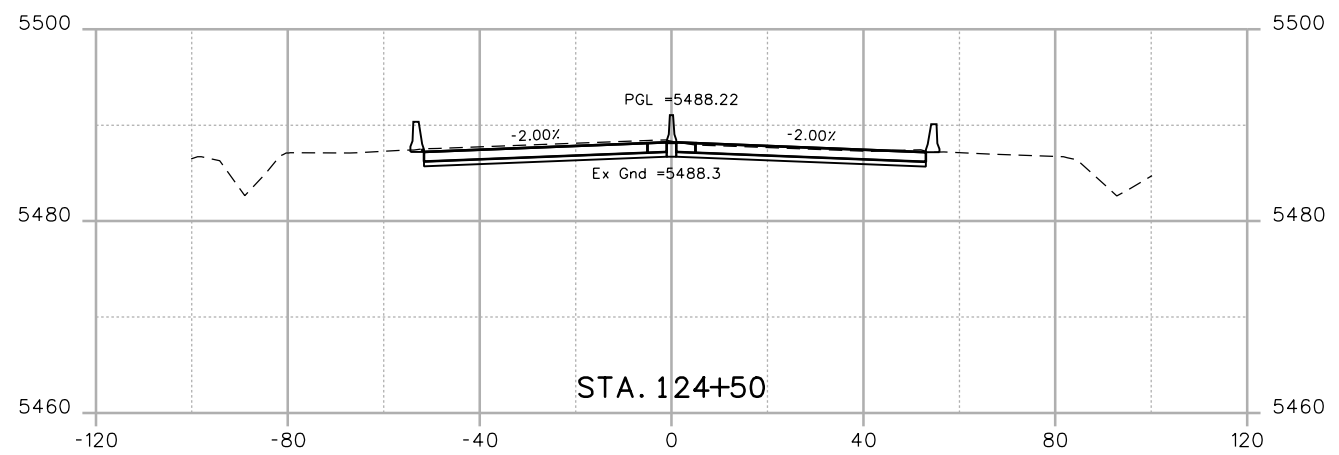
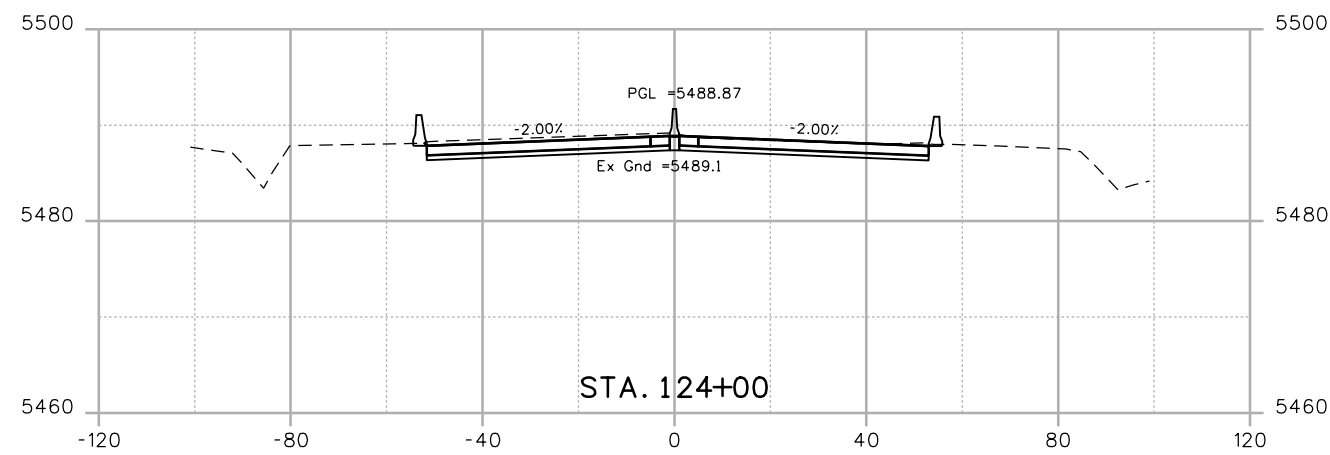
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Project No./Code
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Unit Information	Unit Leader

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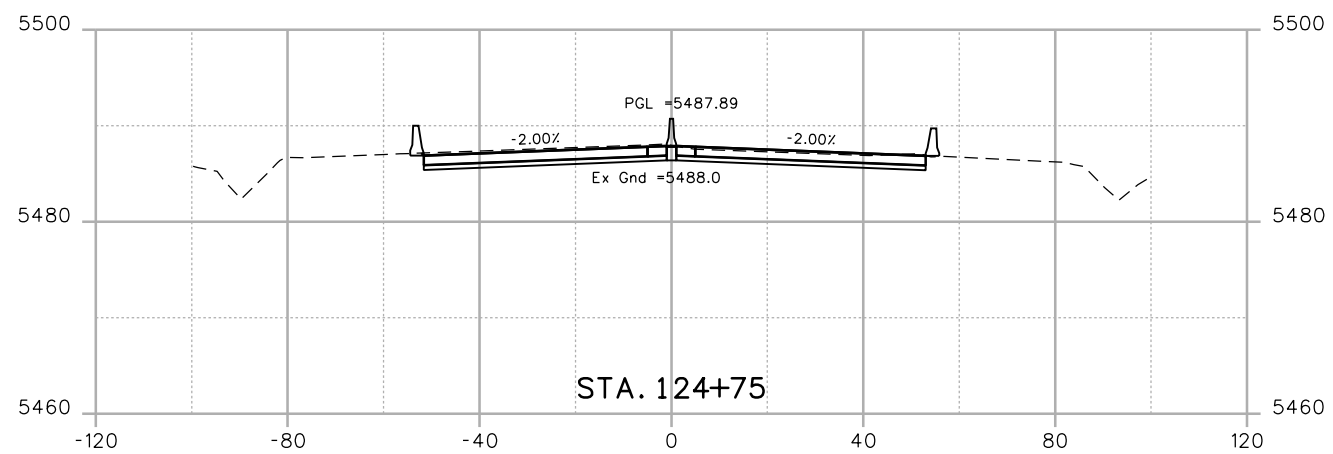
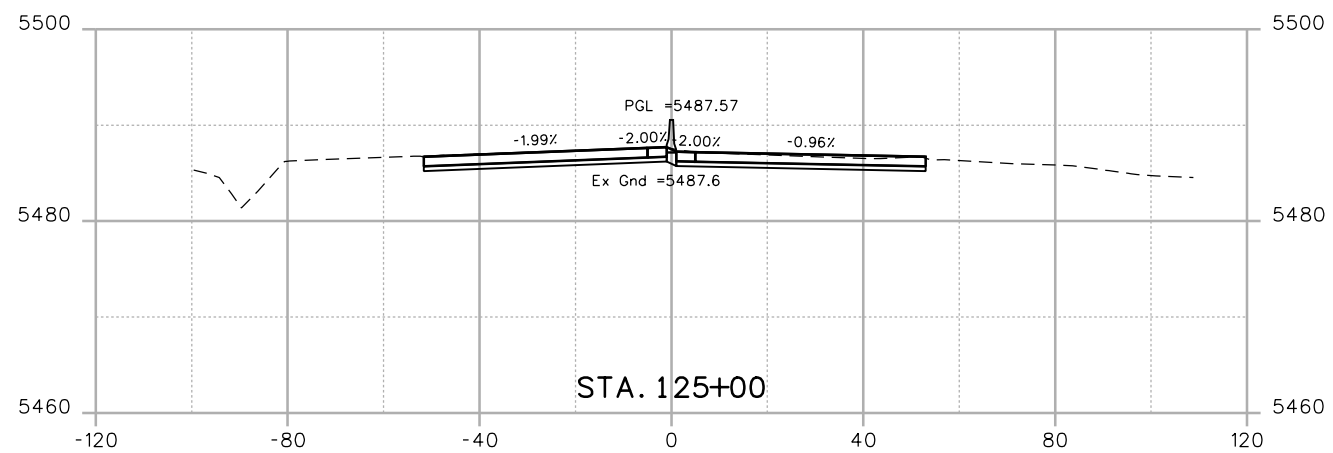
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Sheet Number 98

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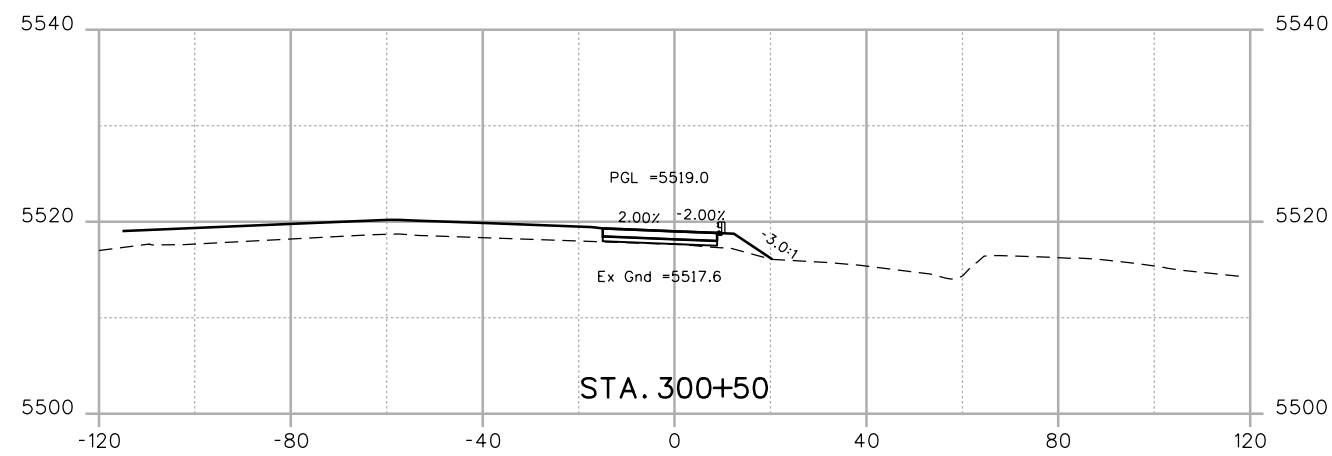
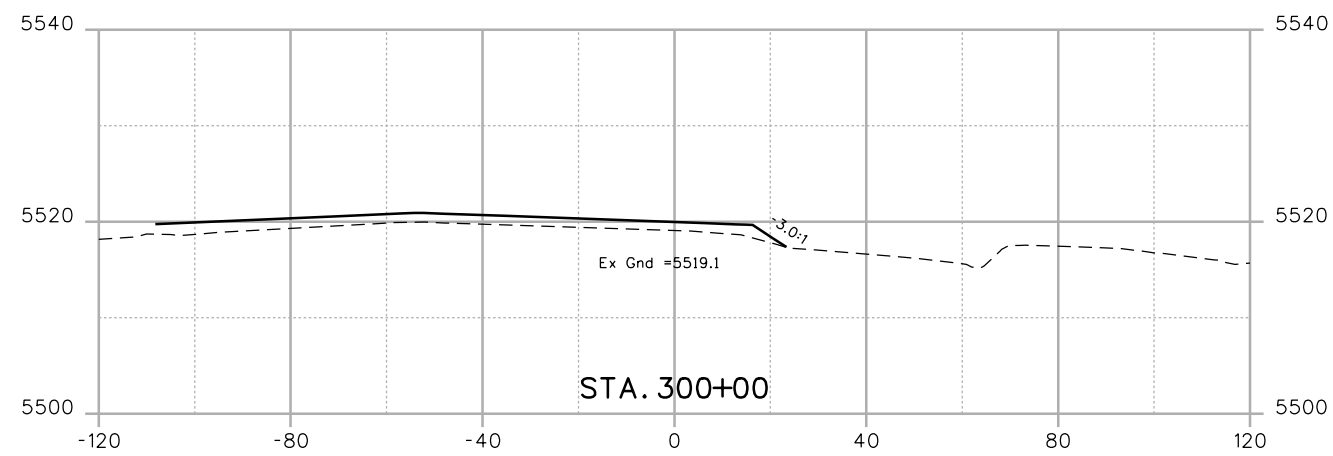
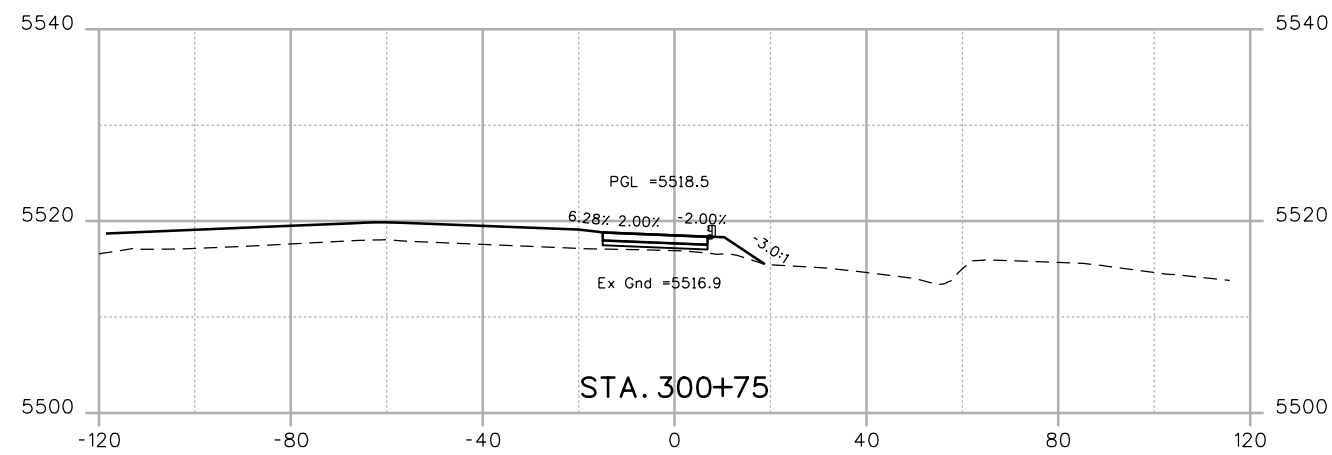
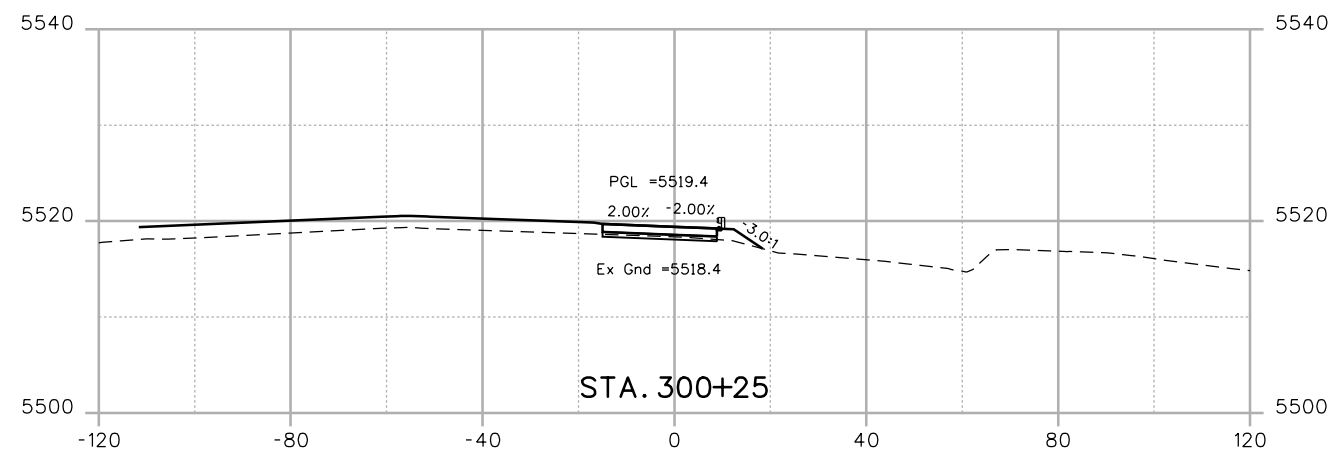
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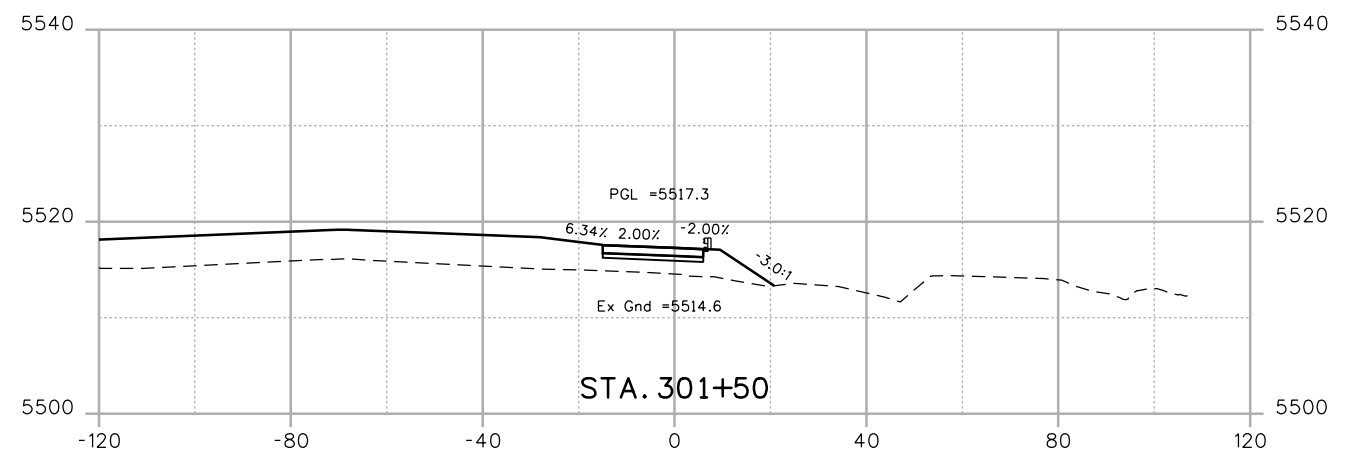
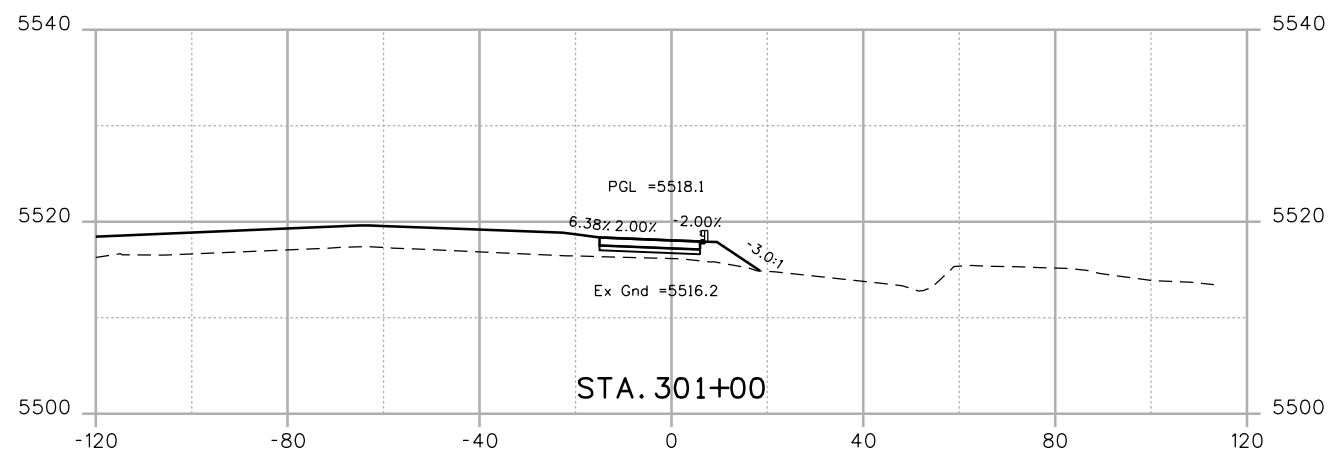
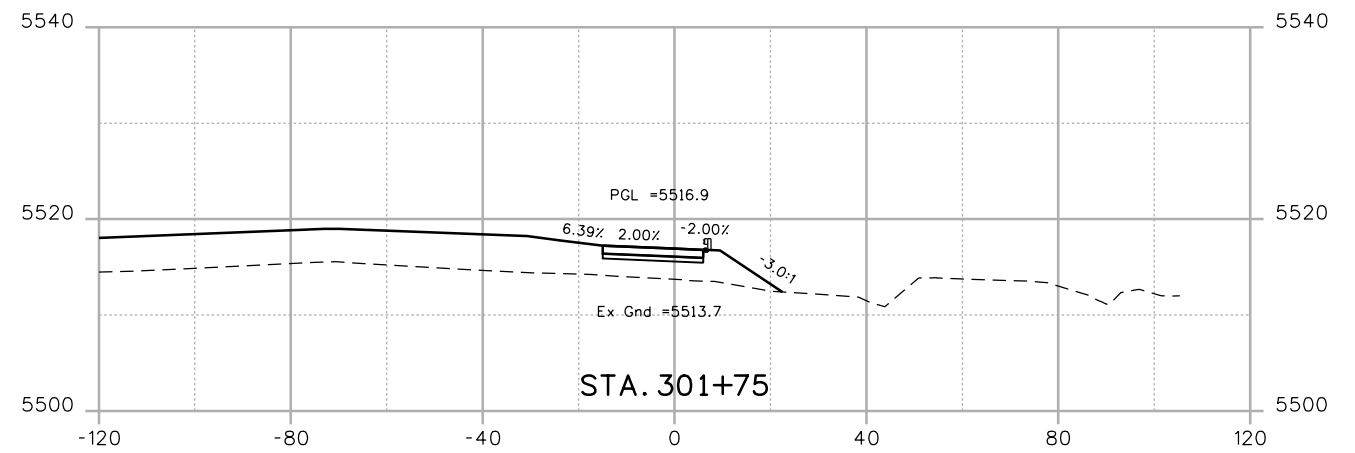
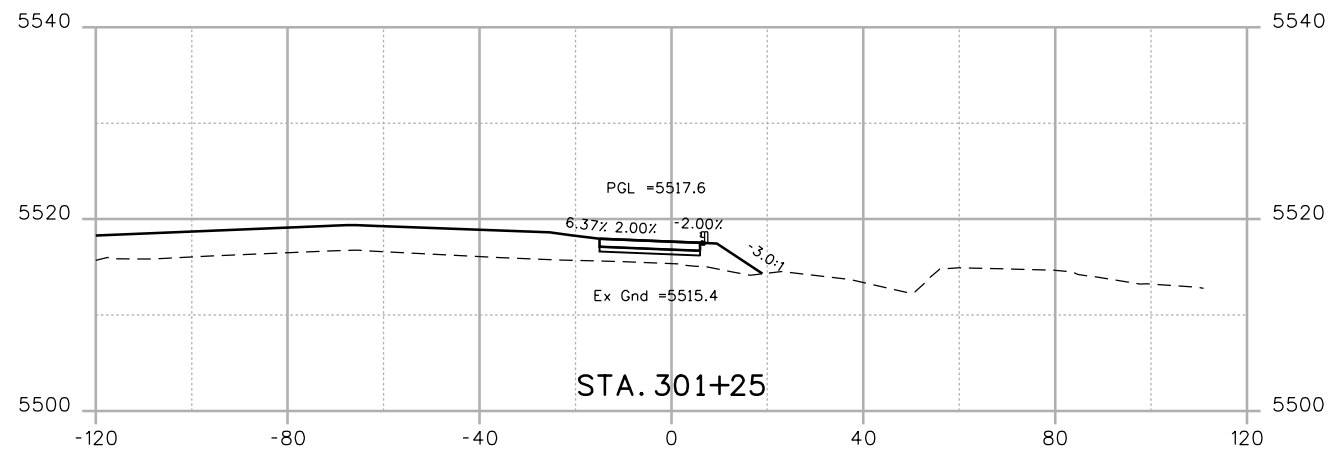
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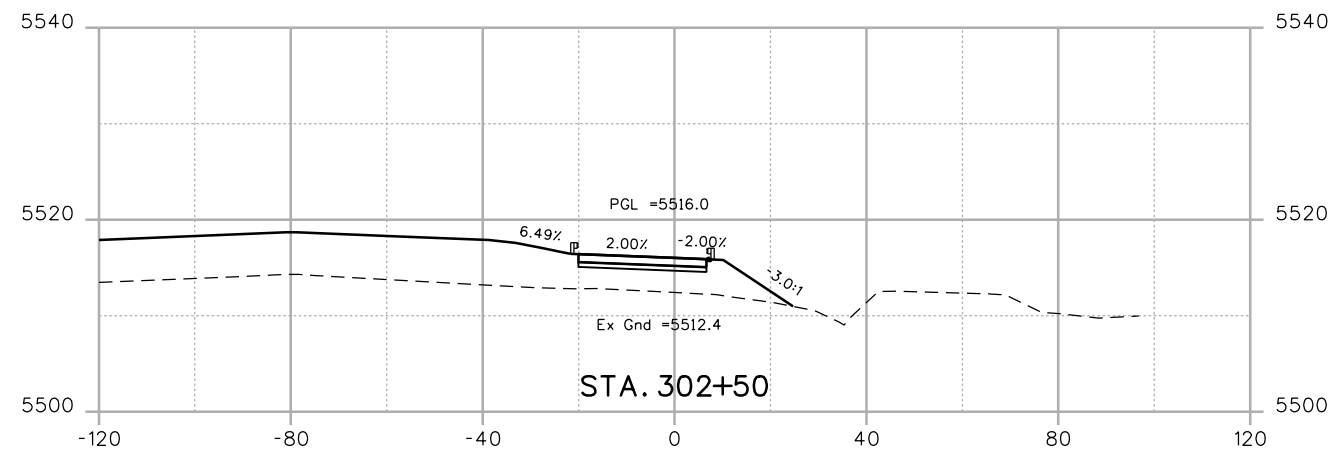
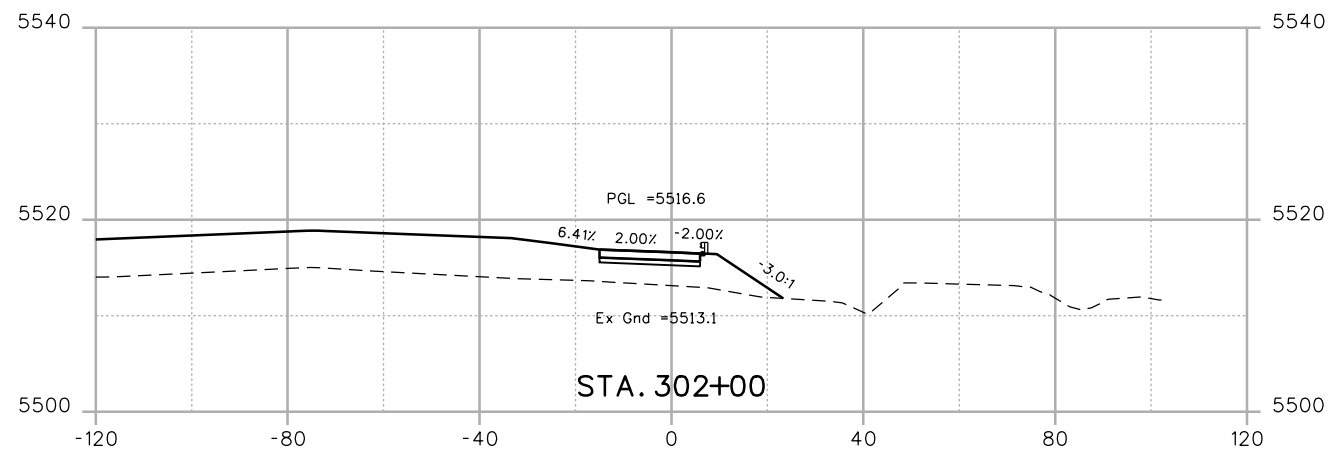
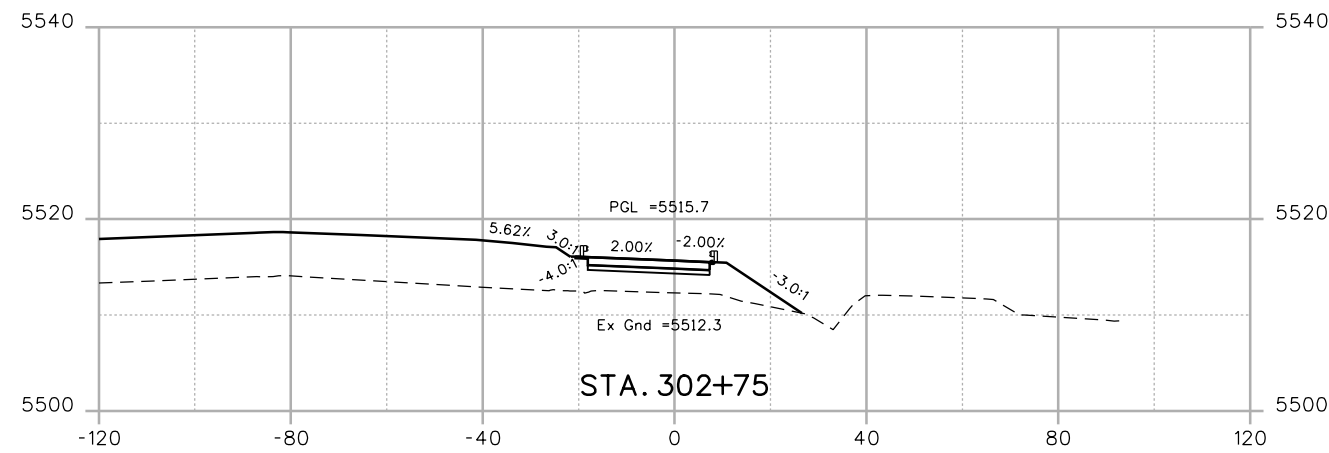
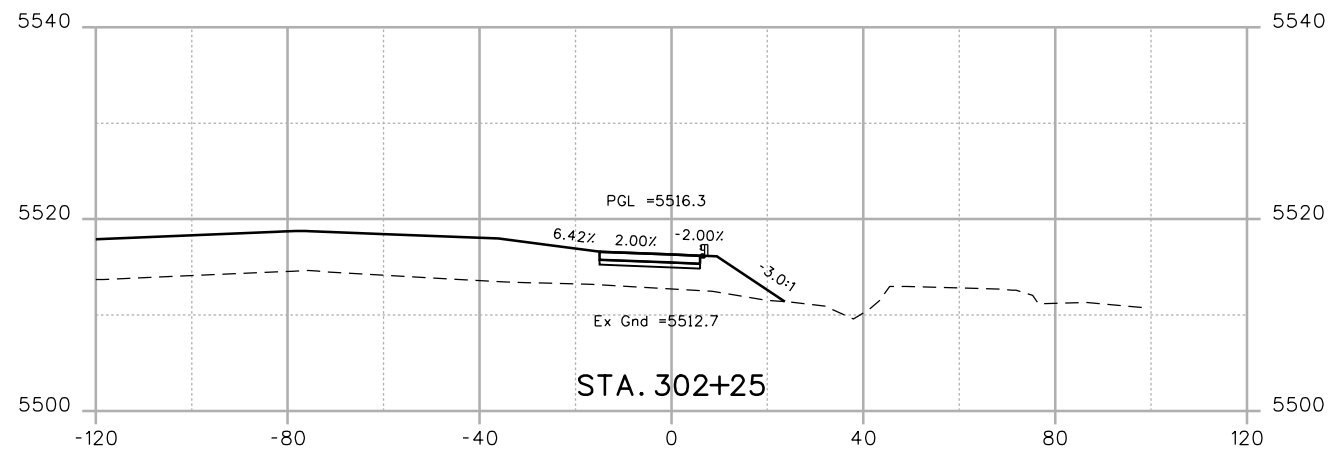
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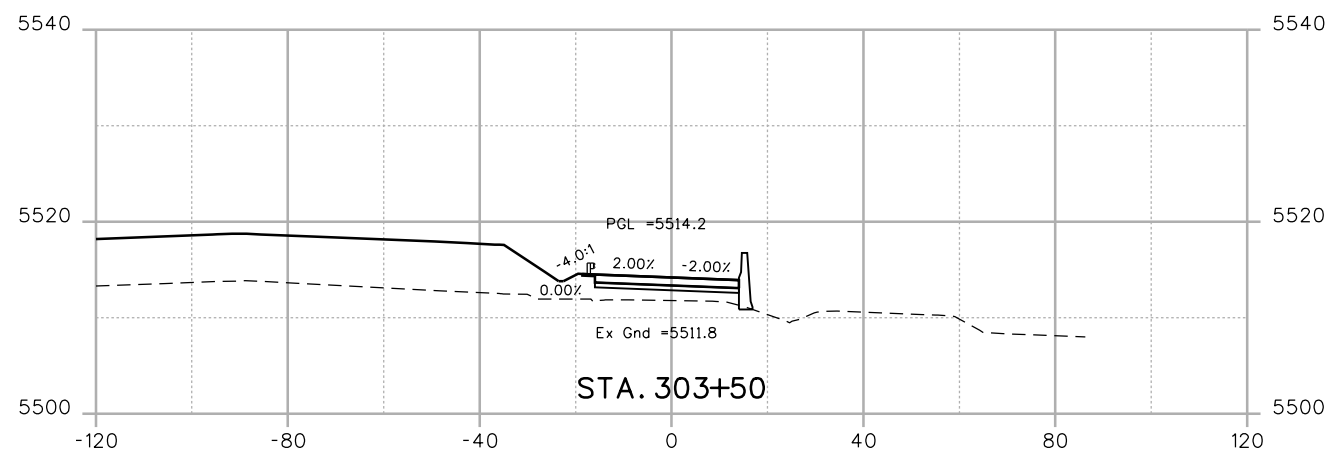
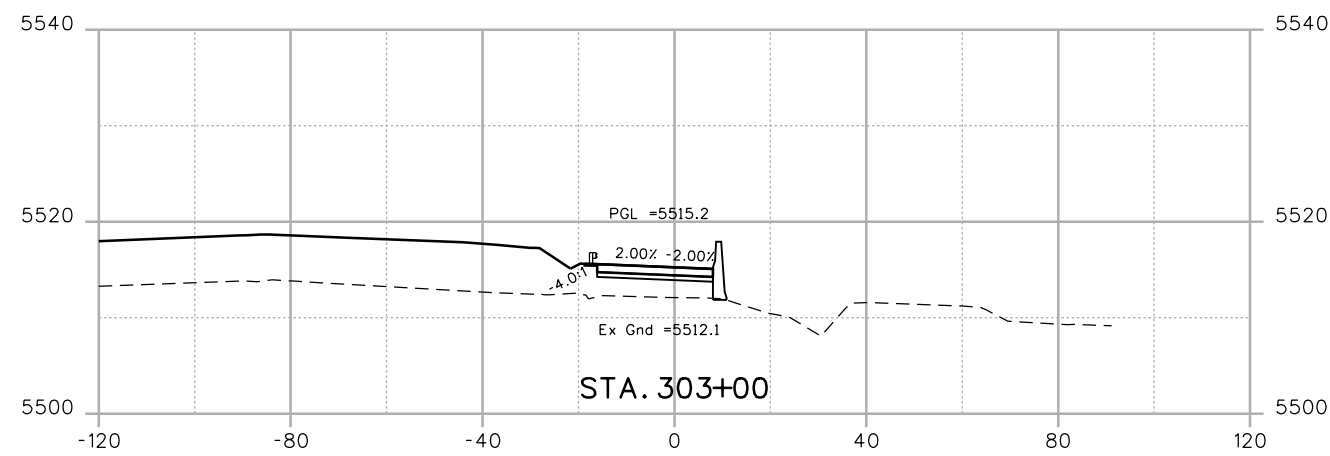
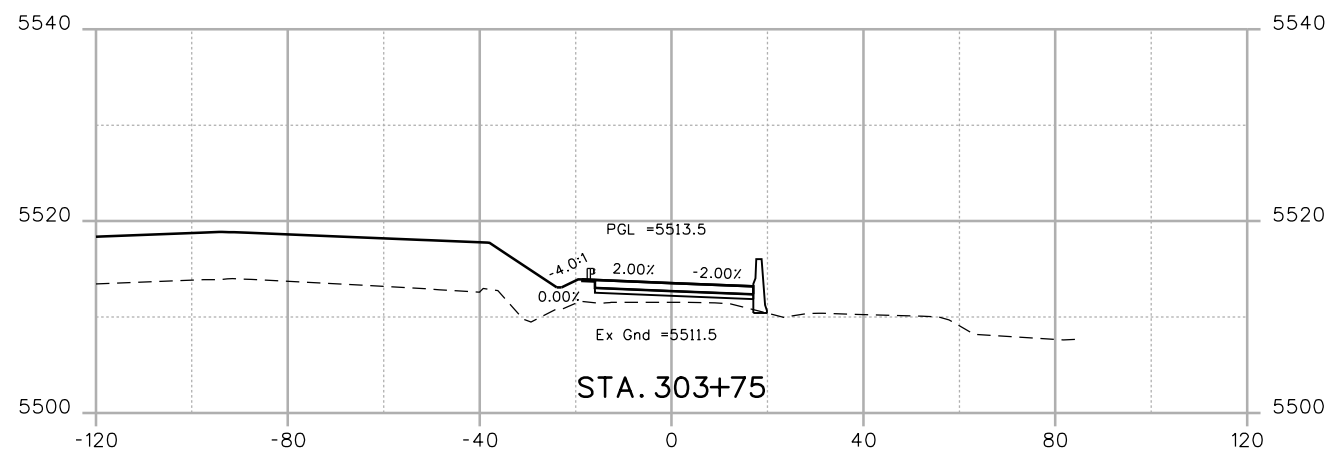
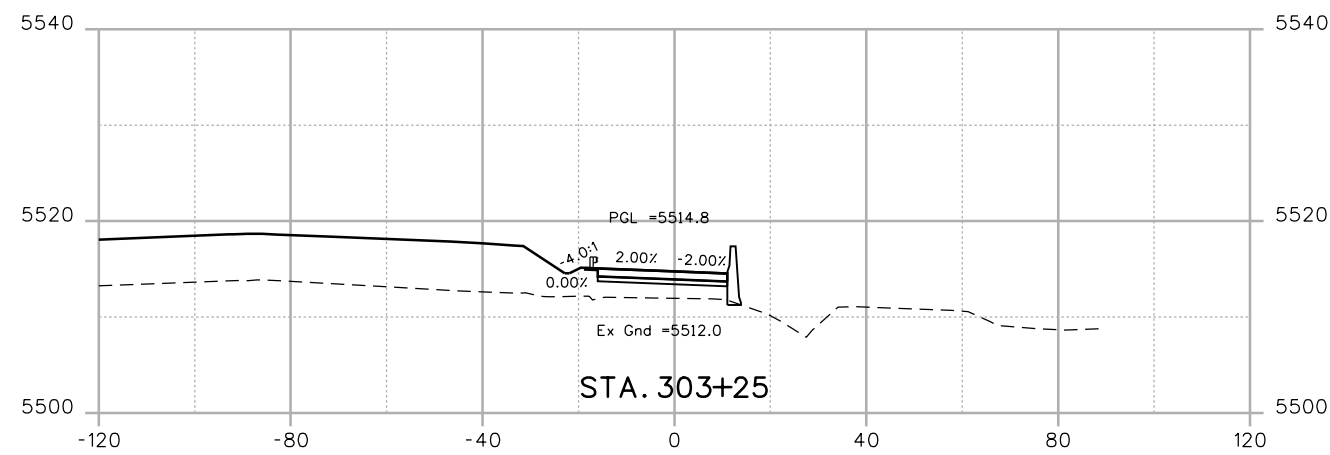
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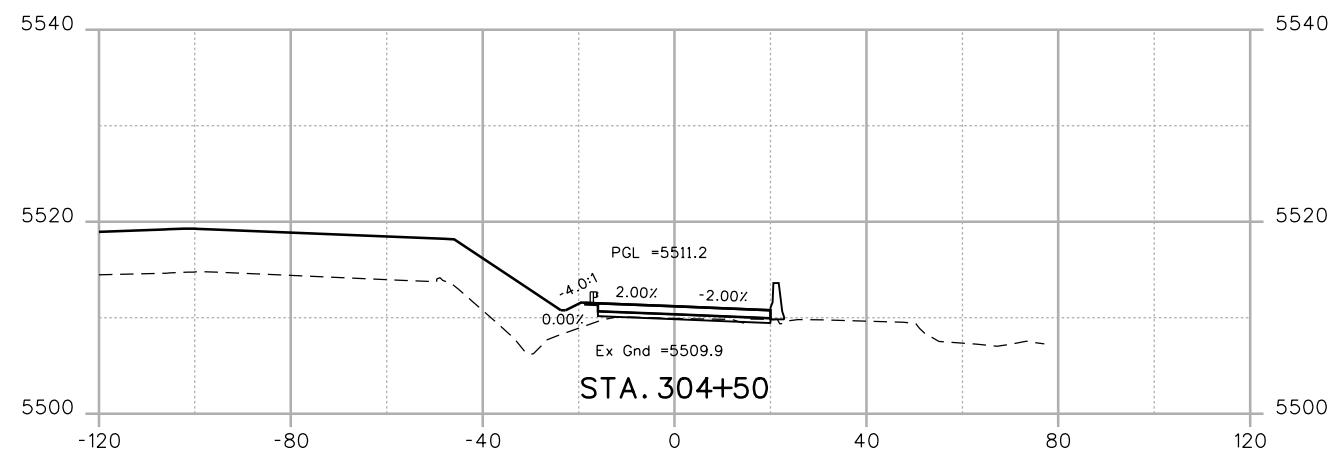
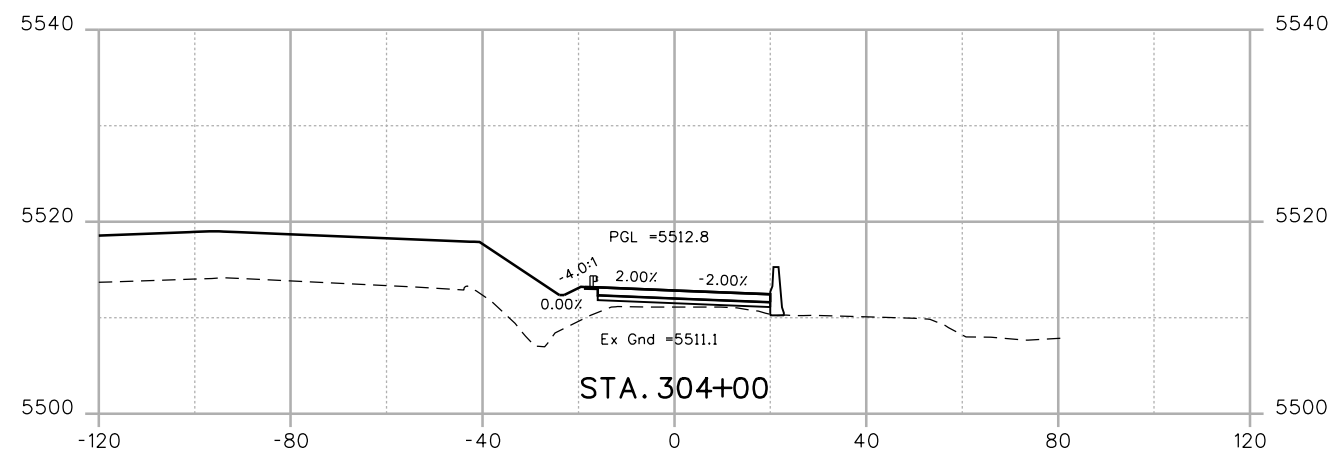
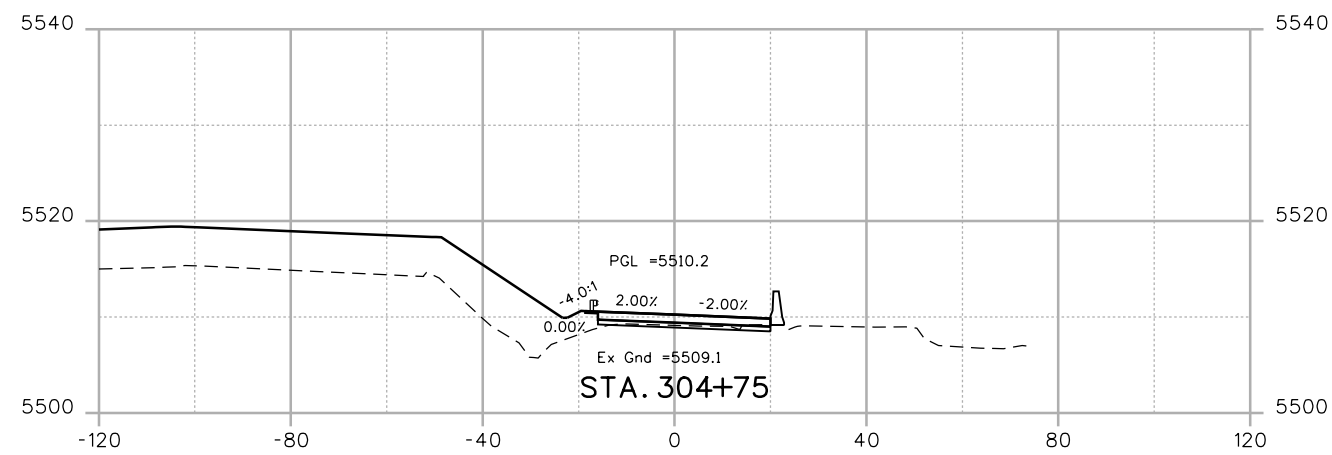
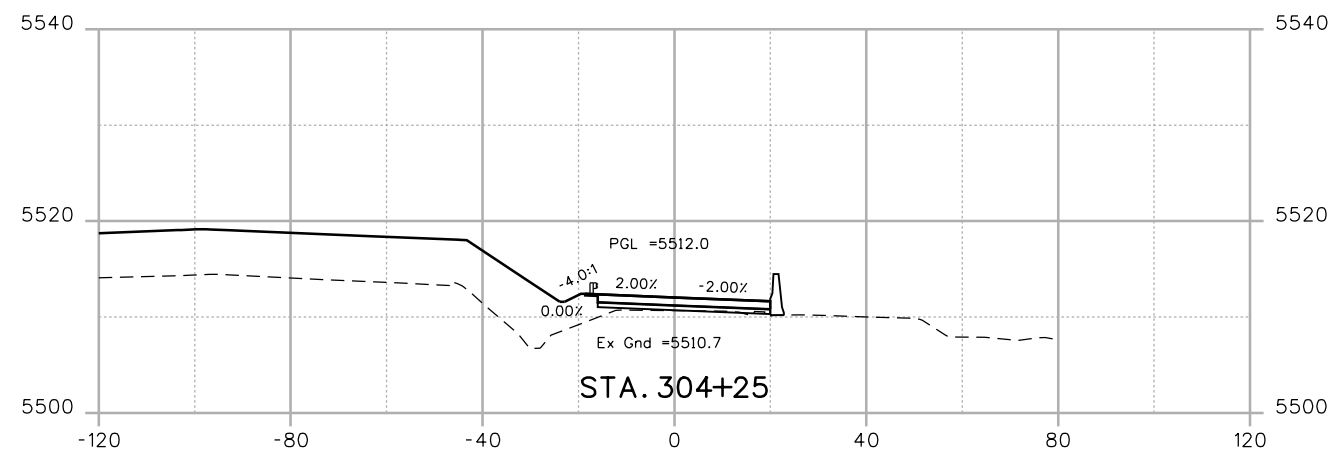
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Region 1 **KPB**

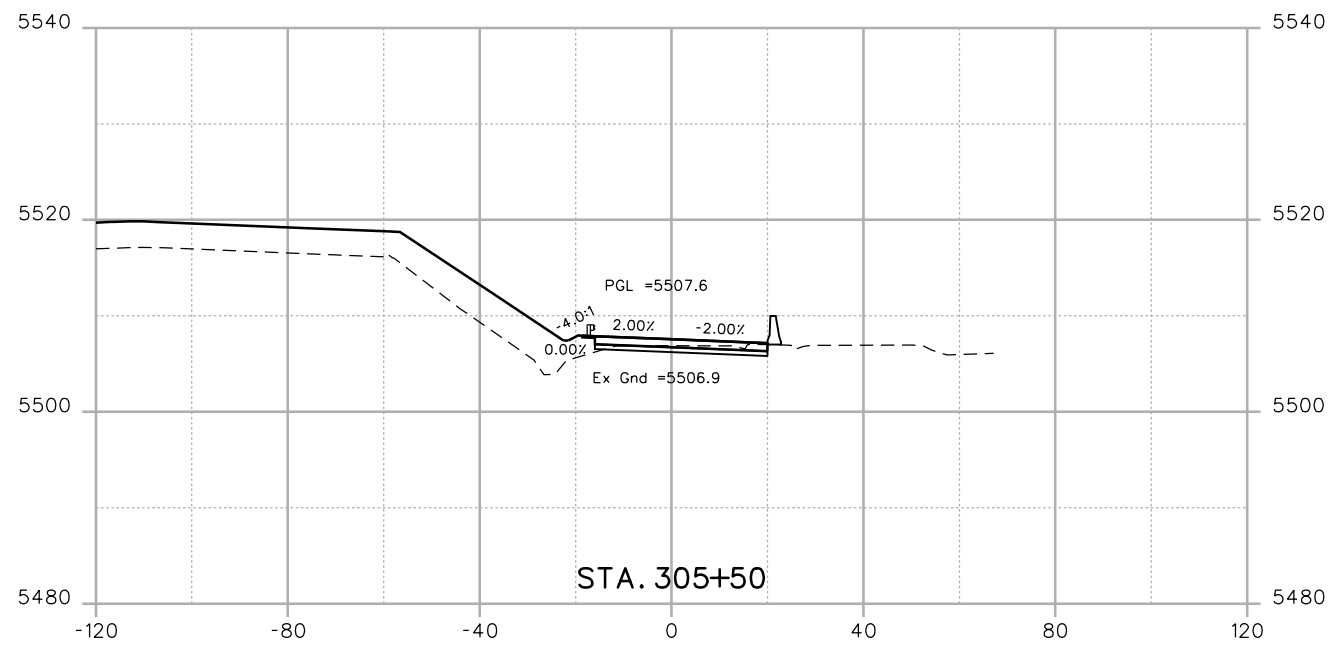
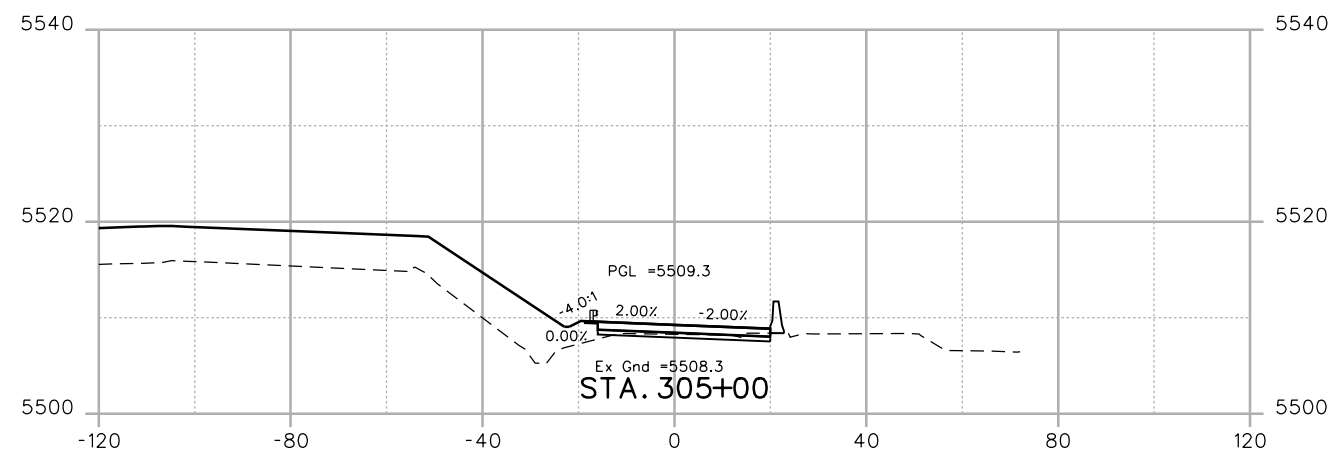
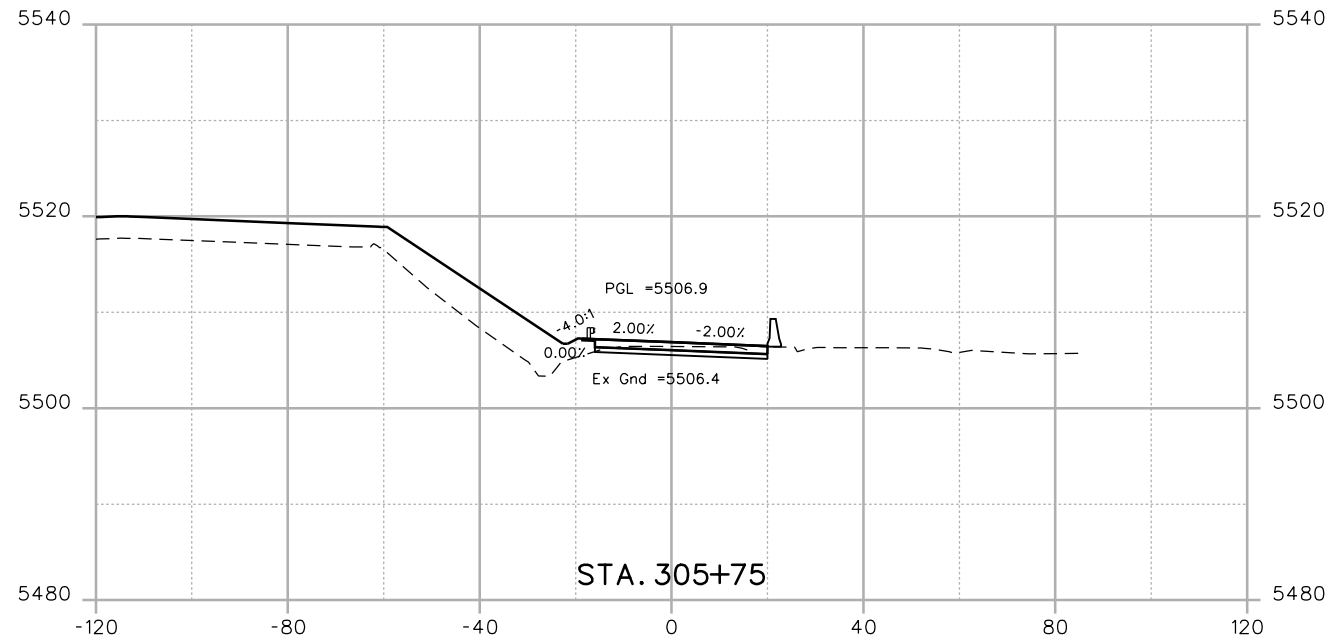
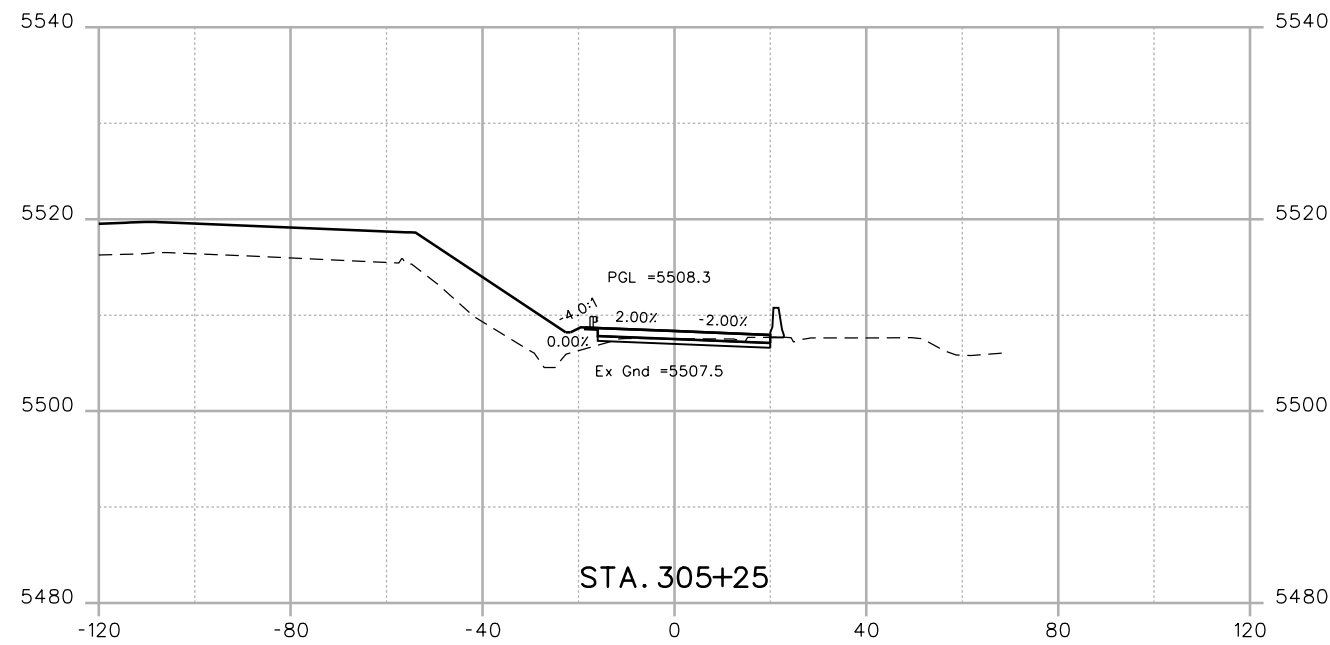
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Project No./Code
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Sheet Number 104

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Region 1 KPB

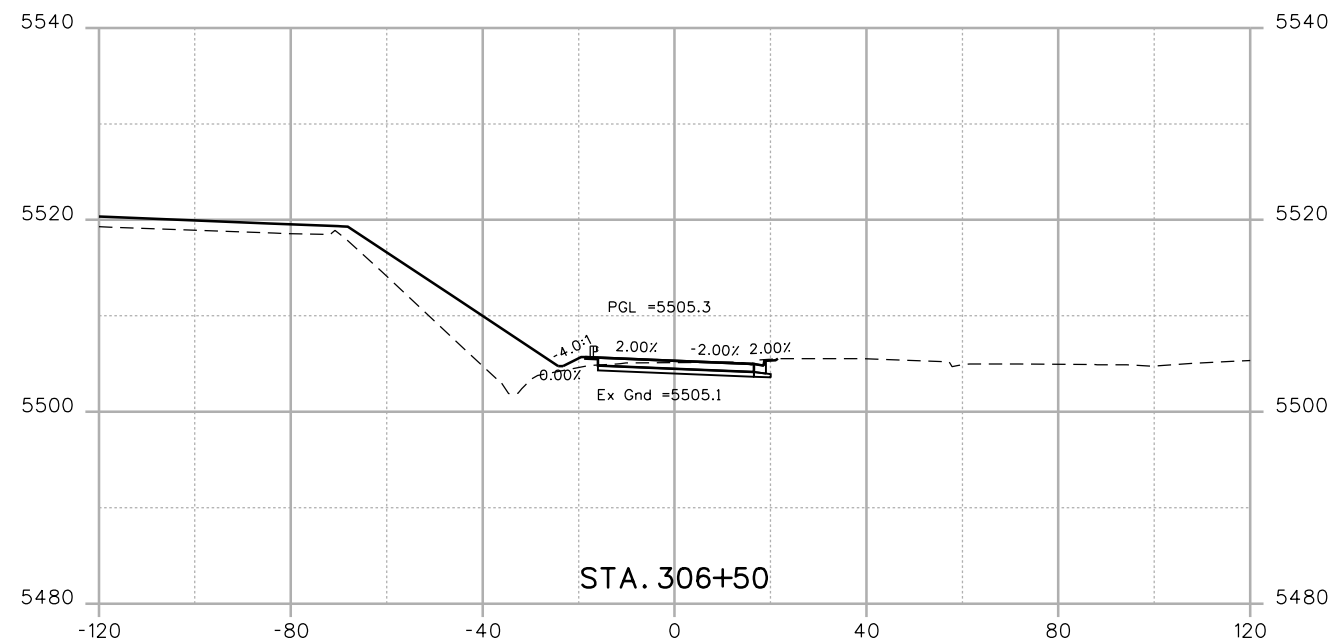
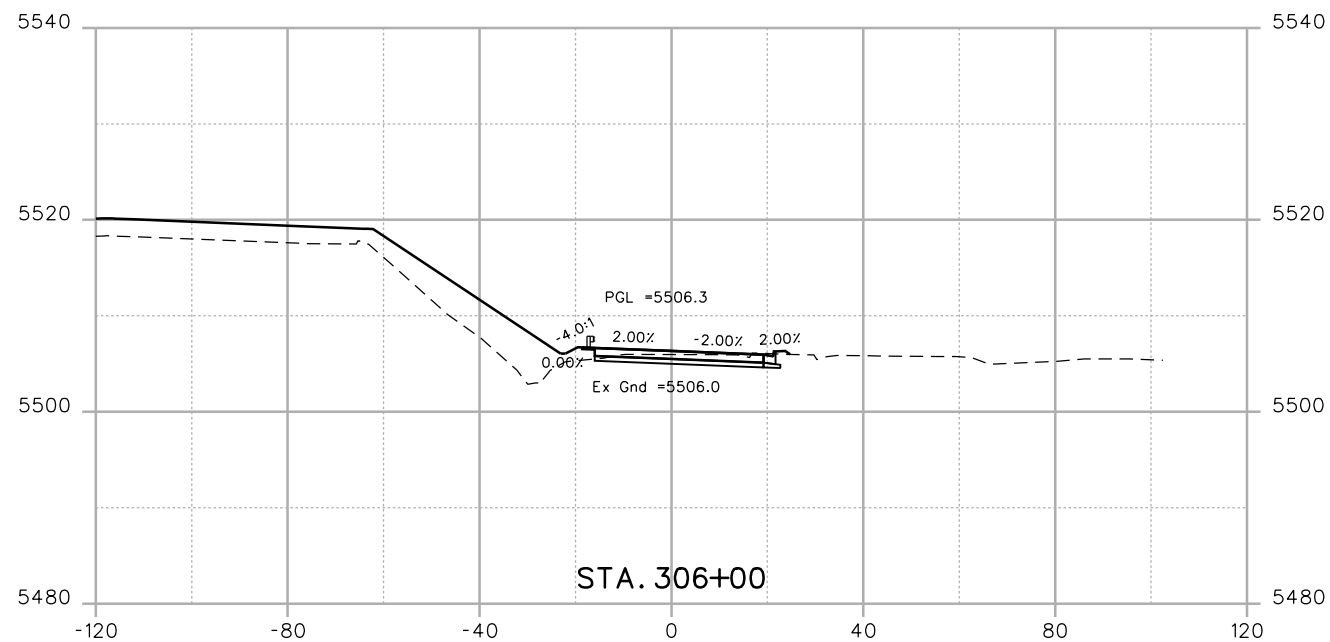
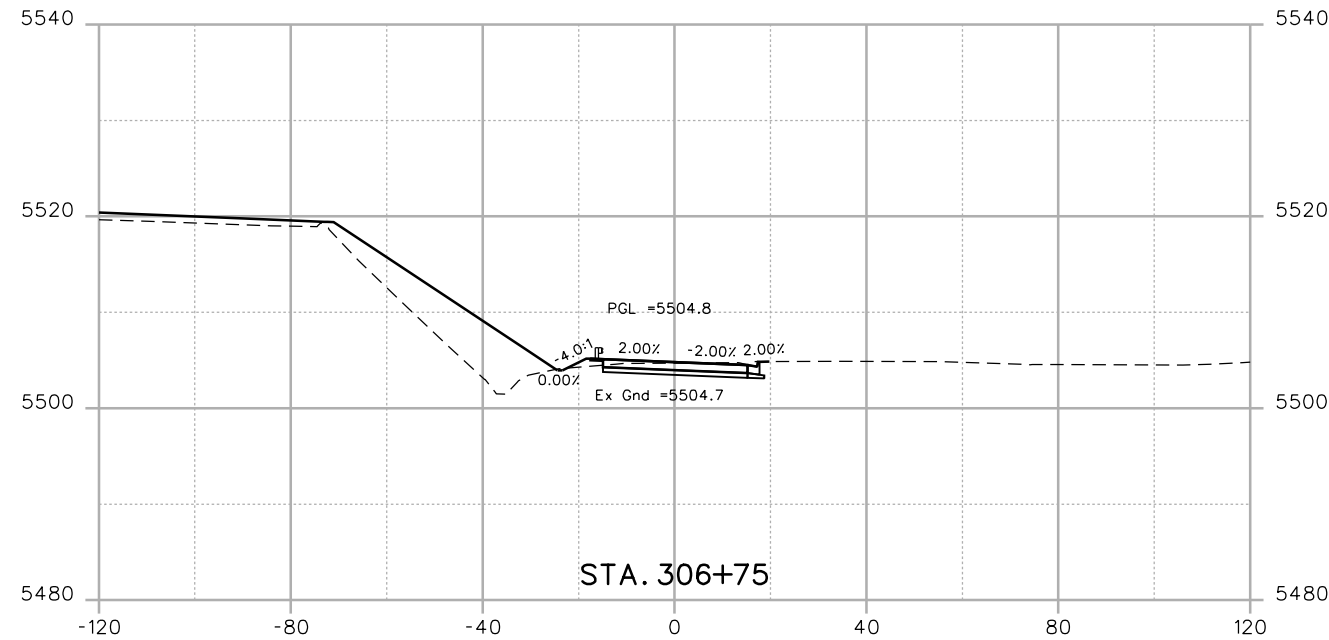
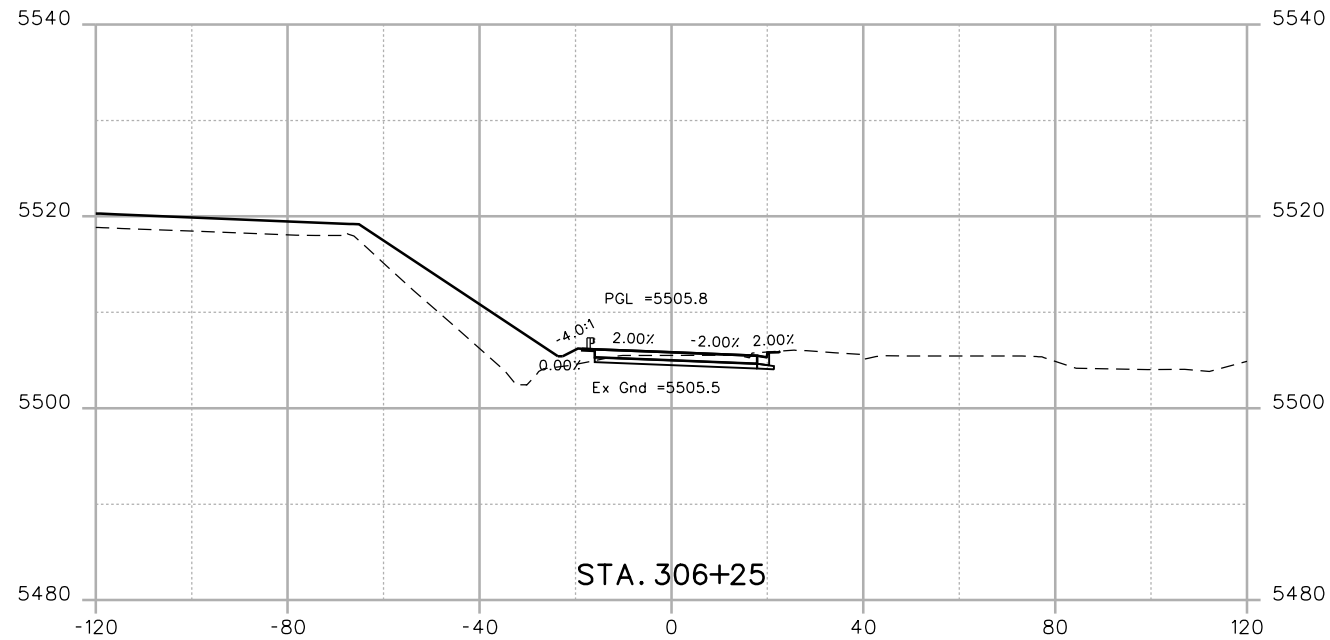
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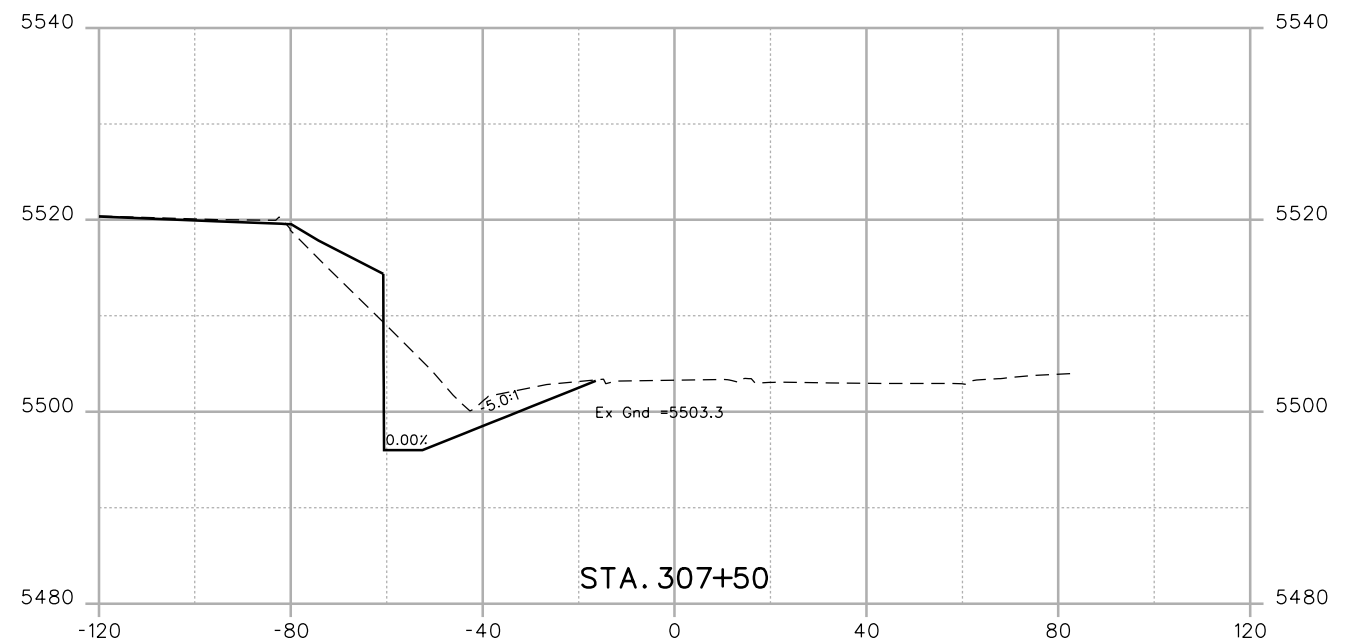
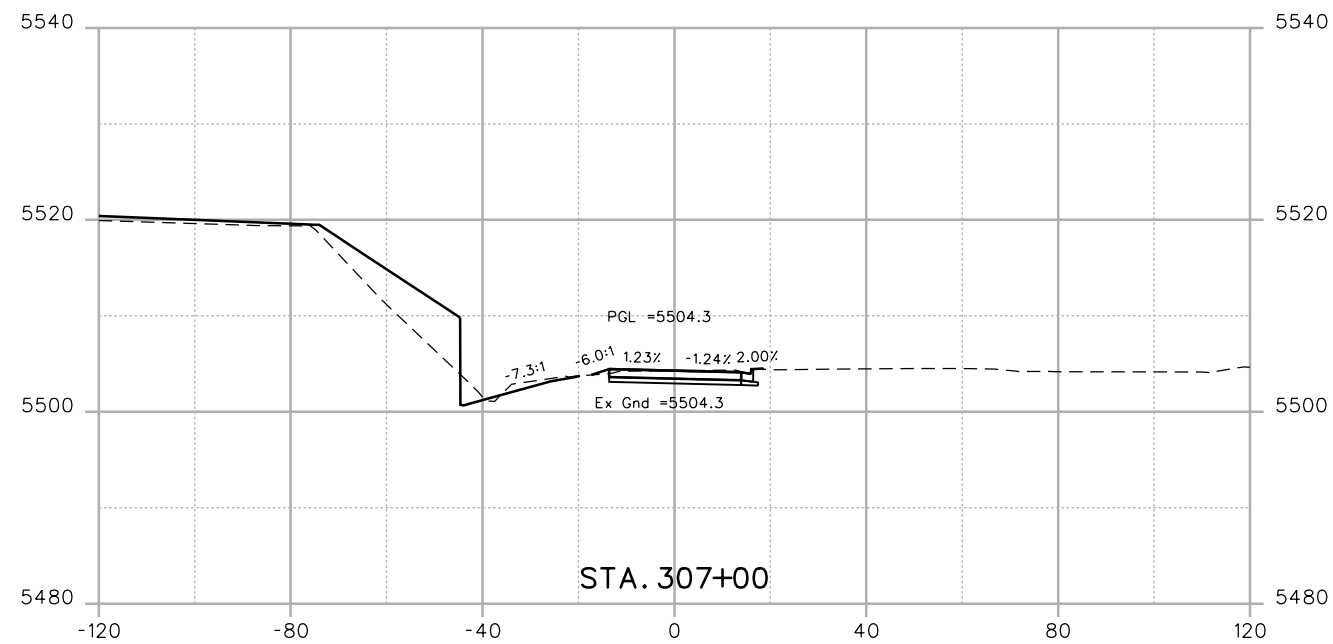
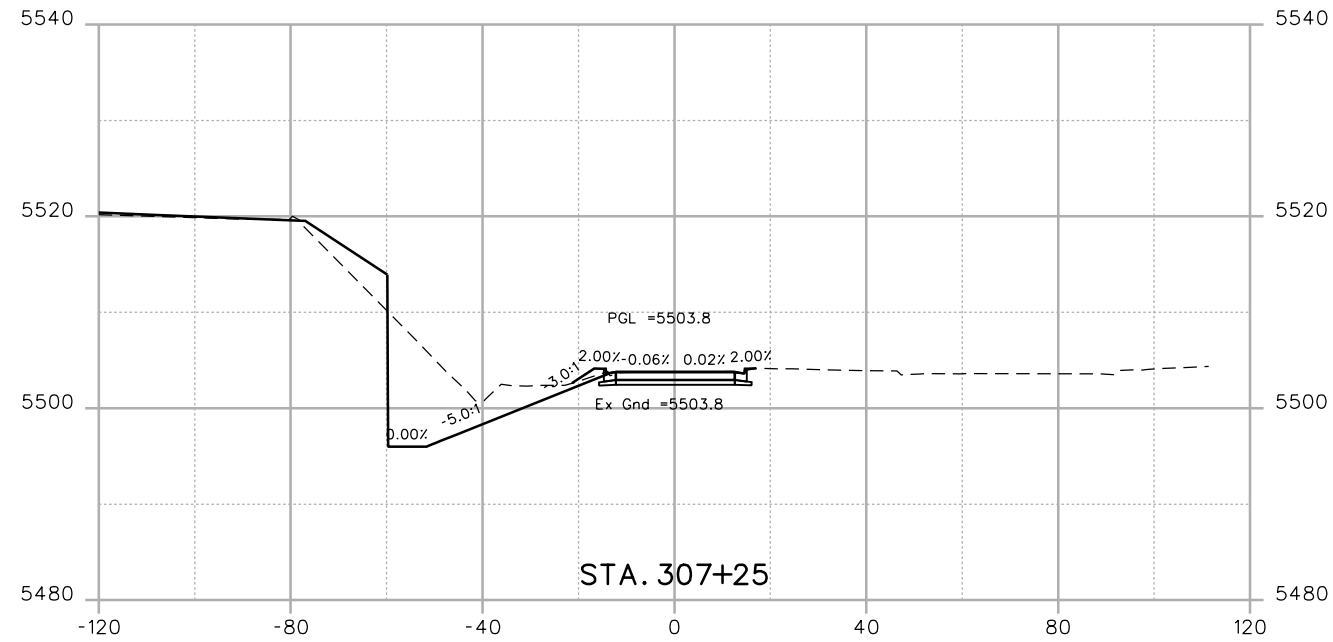
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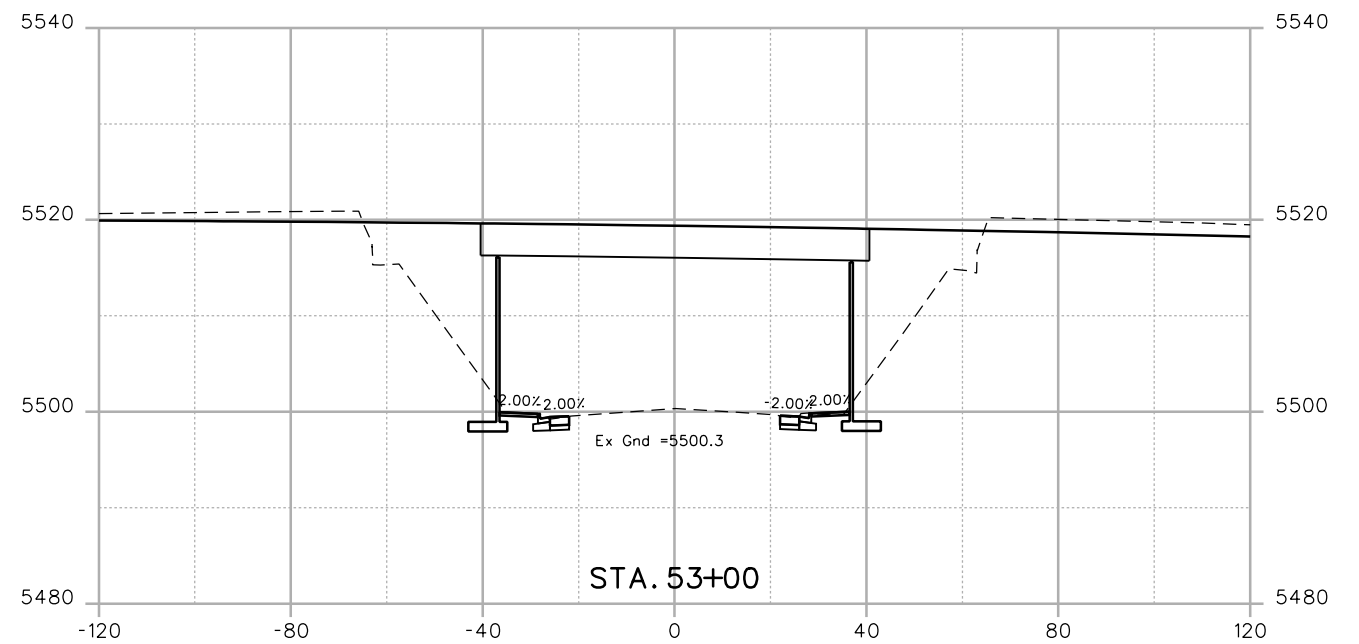
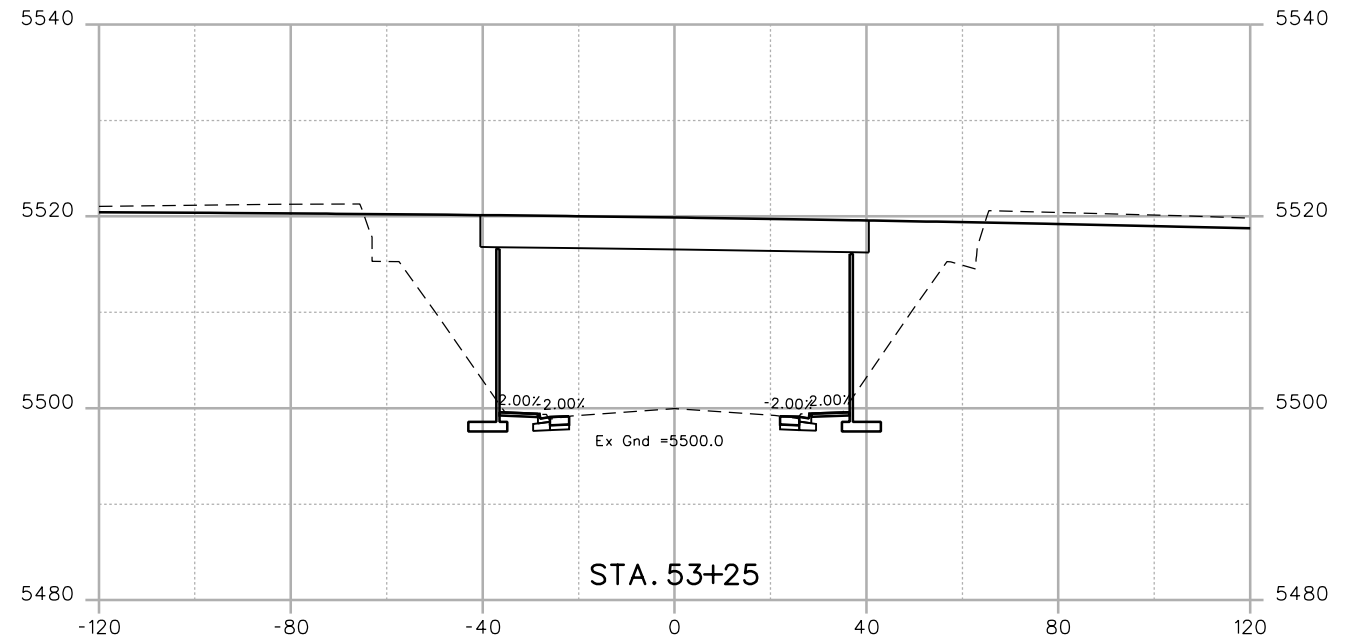
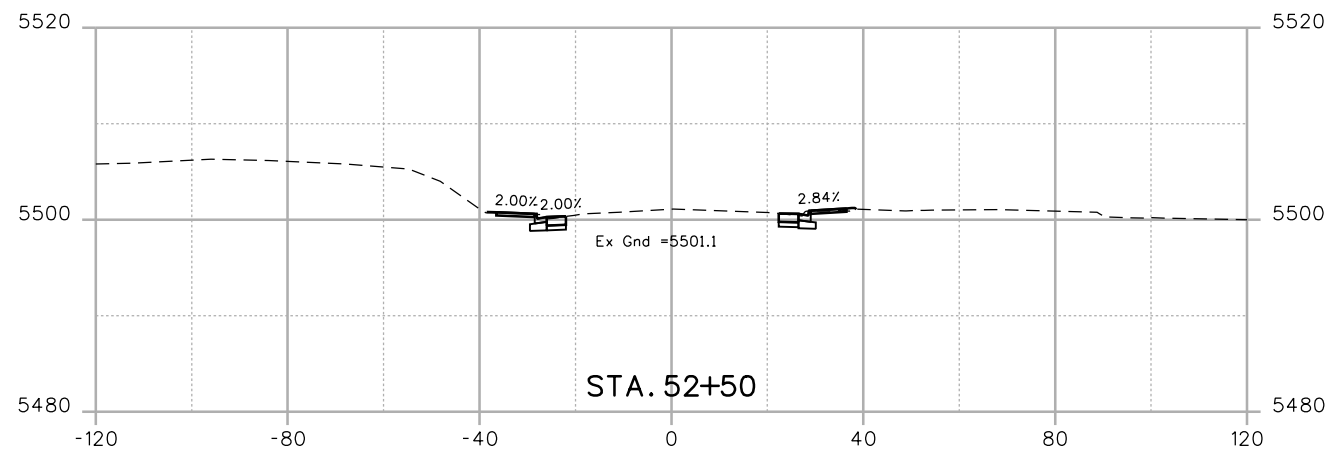
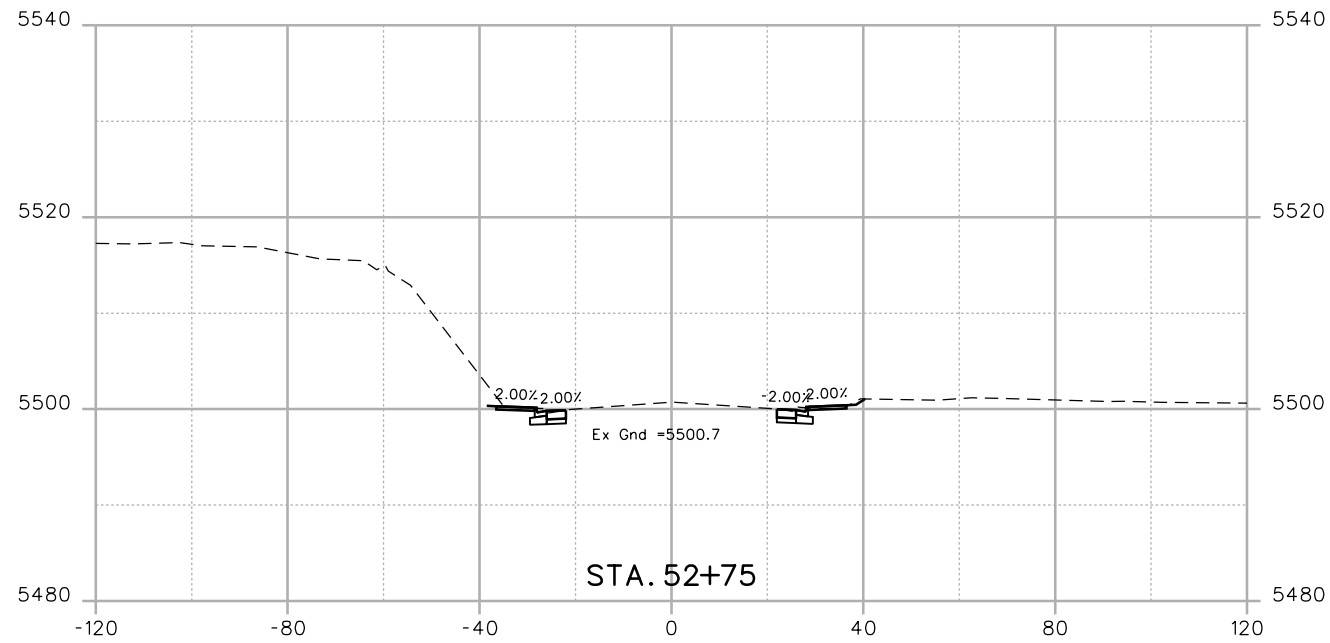
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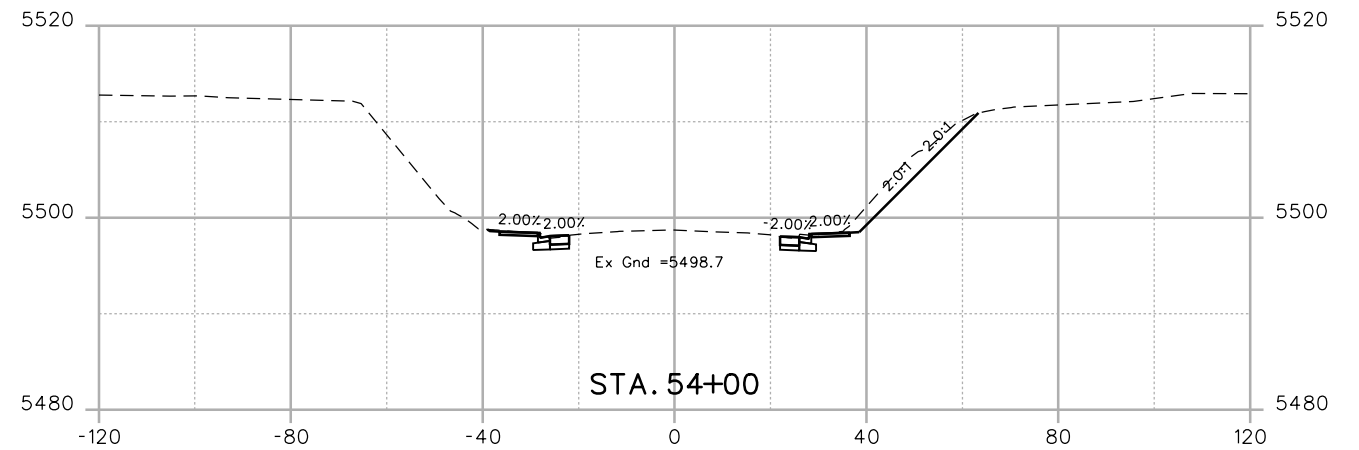
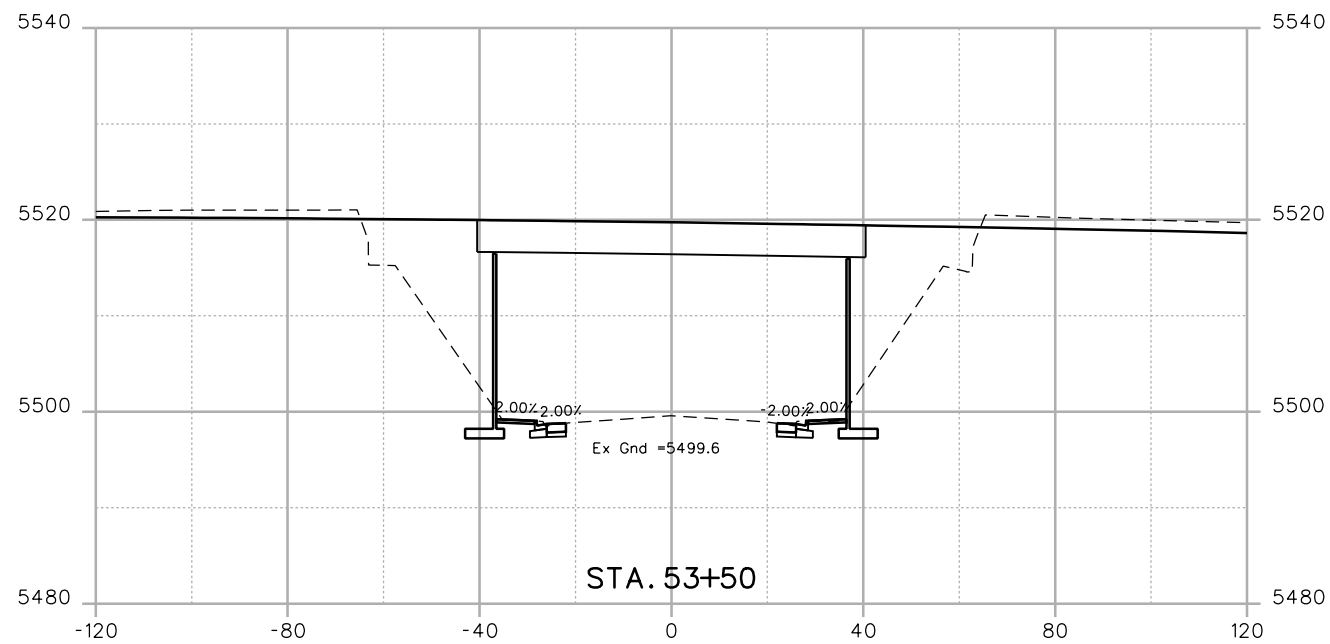
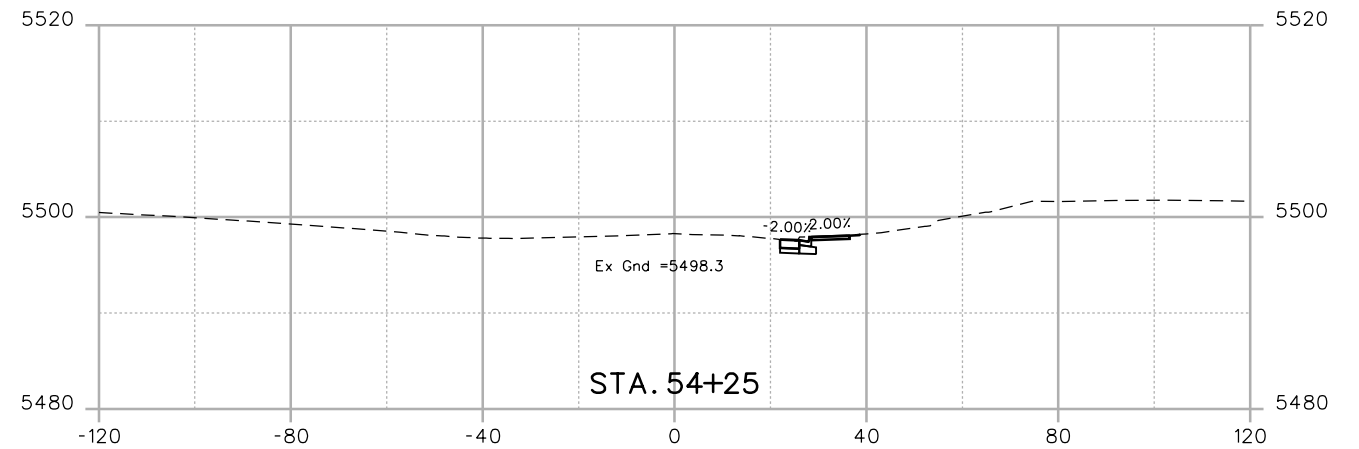
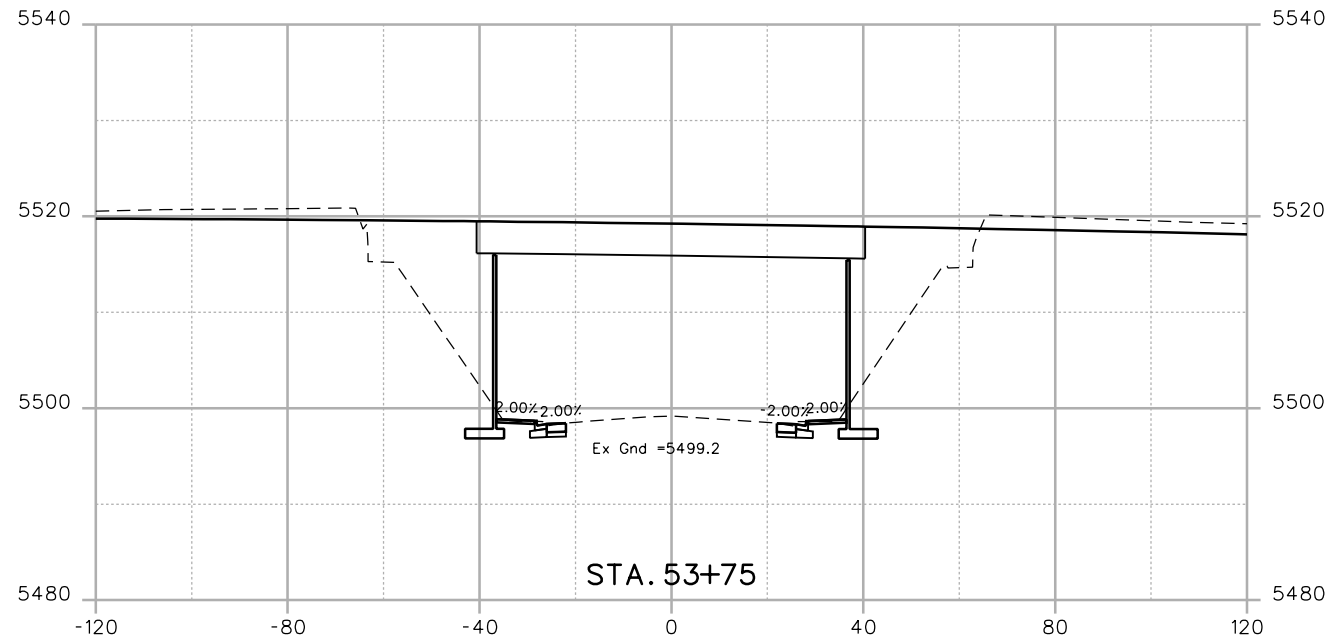
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