

Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES
 NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

Related Projects:
 P. E. UNDER PROJECT: FBR0063-046
 Project Number: 19478
 Project Code:
R.O.W. Projects:
 R.O.W. Project Description: xxxx

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

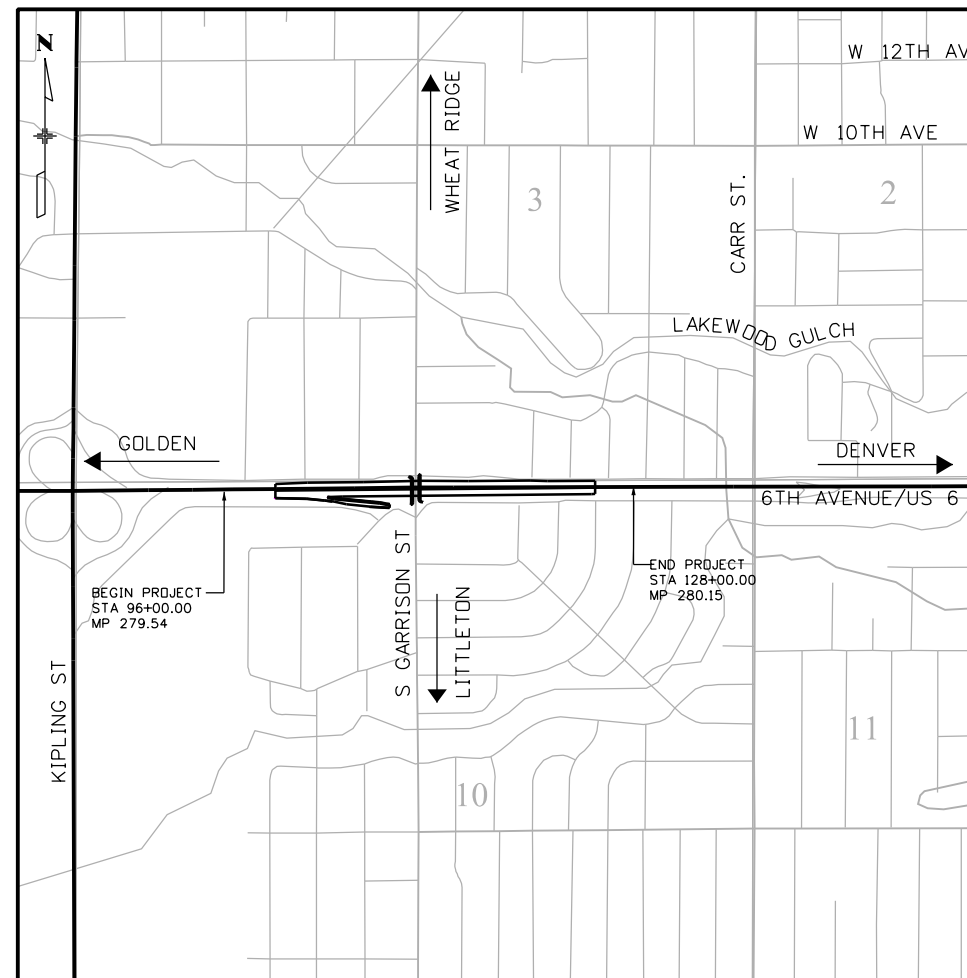
TABULATION OF LENGTH

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

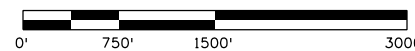
▲ Length of structure is not included in the length of project.

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
P _{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 TED%
DHV TRUCK %	TBD%	TBD%	TED%
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 OFF SET 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
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34	GORE DETAILS
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46 - 47	POND DETAILS
48 - 60	STORM WATER MANAGEMENT PLANS
61 - 62	TRAFFIC SIGNAL PLANS
63 - 68	UTILITY PLANS
69 - 72	BRIDGE PLANS
73 - 81	RETAINING WALL PLANS
82 - 116	CROSS SECTIONS

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

NOT FOR CONSTRUCTION

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 Unit Information

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:

Contract Information
 Contractor:
 Resident Engineer: KEVIN BROWN
 Project Engineer:
 PROJECT STARTED: / / ACCEPTED: / /
 Comments:

Project No./Code
 FBR0063-046
 19478
 Sheet Number 1

WORK IN PROGRESS

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PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
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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
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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
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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			Colorado Department of Transportation  425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed		STANDARDS PLANS LIST		Project No./Code	
File Name: 19478-GEN-02.dgn		Date:	Comments	Init.		No Revisions:			?		
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Unit Information Unit Leader						Void:	Detailer: CS	Numbers	Sheet Number 2		
				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
 CL 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

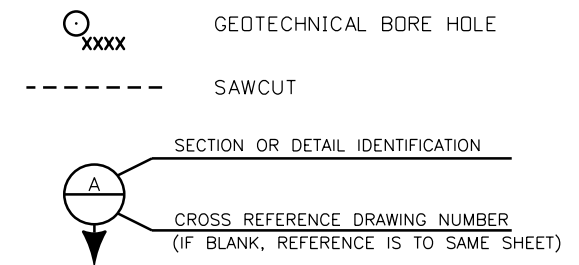
V
 VCP VITRIFIED CLAY PIPE
 VT VOLT

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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Unit Information Unit Leader						Void:	Detailer: CS	Numbers	Sheet Number 3		
					Sheet Subset: ABBR.	Subset Sheets: AB1 of 1					

WORK IN PROGRESS

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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. THE CONTRACTOR AND THE ENGINEER SHALL DELINEATE LIMITS OF EACH SMOOTHNESS REQUIREMENT AT LEAST TWO WEEKS BEFORE COMMENCEMENT OF PAVING. ALL SMOOTHNESS SHALL BE PER THE SPECIAL PROVISIONS.
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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Horiz. Scale: 1:1 Vert. Scale:						Revised:	Designer: CH	Structure		19478
Unit Information Unit Leader						Void:	Detailer: CS	Numbers		Sheet Number 4
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WORK IN PROGRESS

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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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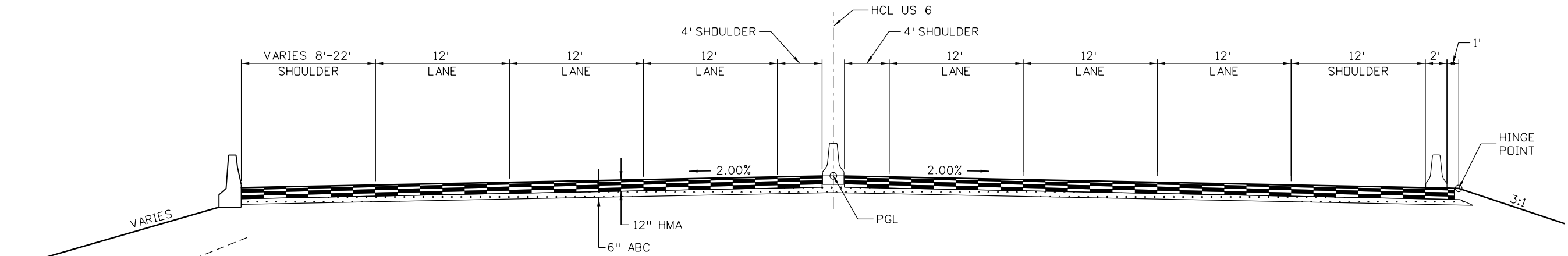
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	Sheet Subset: G. NOTES	Subset Sheets: GN2 of 2

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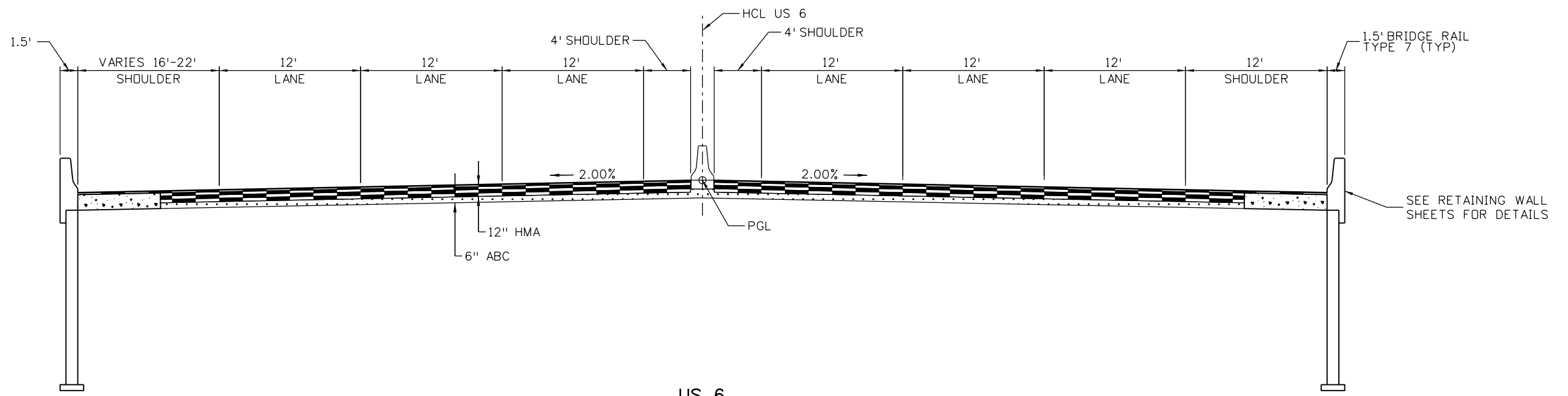
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**US 6
TYPICAL SECTION**

NOTE:

- 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**

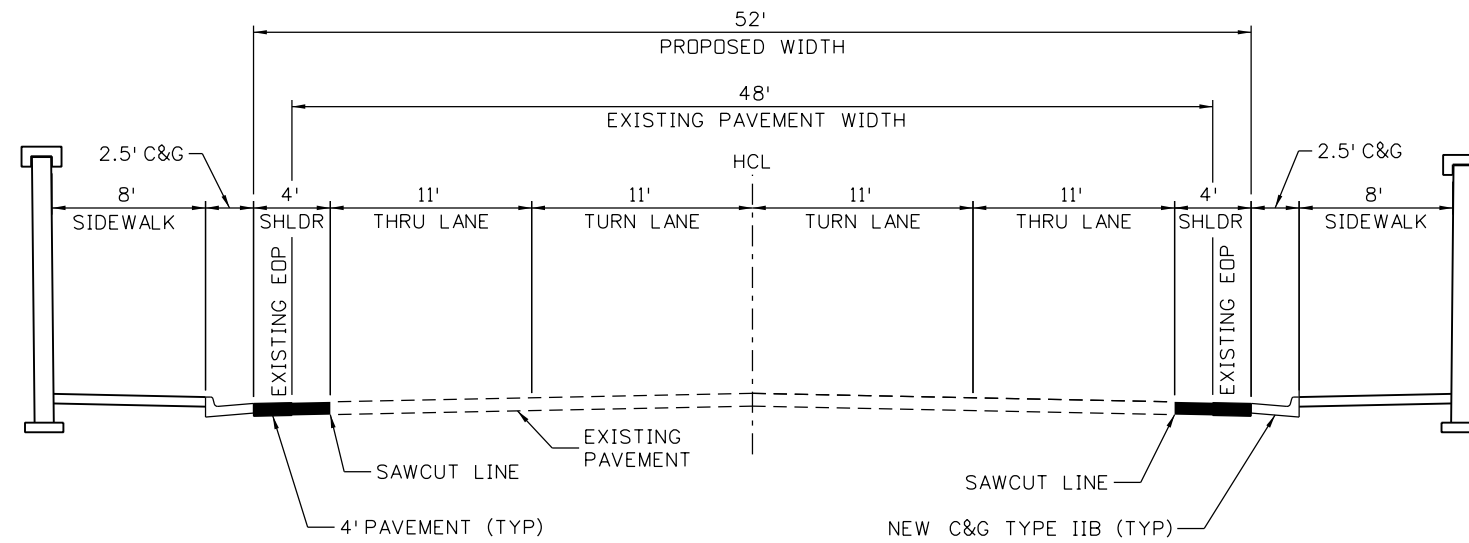
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Detailer:	CS	Numbers	
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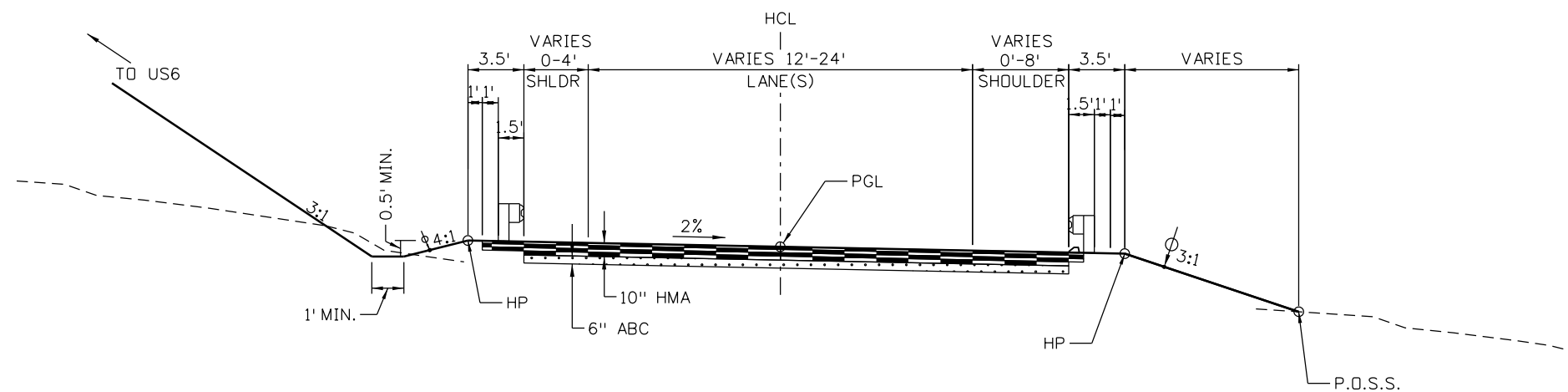
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GARRISON STREET



EB OFF RAMP

FLEXIBLE PAVEMENT DESIGN			
DESIGN PARAMETER	US 6 (E OF GARRISON ST)	US 6 (W OF GARRISON ST)	EB OFF 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):	3"-2.5"-2.25"-2.25"	3"-2.5"-2.25"-2.25"	3"-2.5"-2.5"
SMA GRADING:	GRADING SMA	GRADING SMA	GRADING SMA
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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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	LS			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	LS	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	25,275
206-01781	Shoring (Area 1)	LS			1
206-01782	Shoring (Area 2)	LS			1
206-01783	Shoring (Area 3)	LS			1
206-01784	Shoring (Area 4)	LS			1
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		
403-34871	Hot Mix Asphalt (Grading SX) (100) (PG 76-28)	TON	36		
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 Grate Inlet (5 Foot)	EACH	8		
604-25010	Vane Grate Inlet (10 Foot)	EACH	5		
604-25015	Vane Grate 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	LS	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	LS		1	
625-00000	Construction Surveying	LS	1		
626-01000	Public Information Services	LS	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 (X-Walk-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		

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


Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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Region 1 **KPB**

As Constructed	SUMMARY OF APPROXIMATE QUANTITIES	
No Revisions:	Designer:	LH
Revised:	Detailer:	CS
Void:	Sheet Subset:	SAQ
	Structure Numbers	
	Subset Sheets: SAQ1 of	1

Project No./Code
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19478
Sheet Number 8

WORK IN PROGRESS



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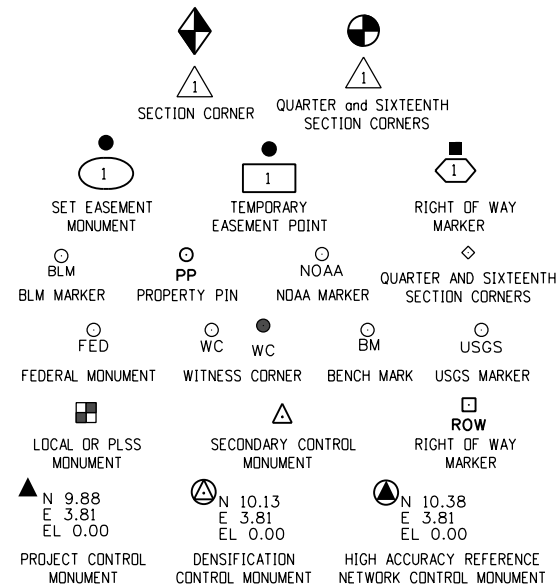
Land Survey Control Diagram			
Title Sheet			
Project Number: FBR 0063-046			
Project Location: SH-6, Road Improvements at Garrison St.			
Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
19478	11-18-13	1 of 4	4.01

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



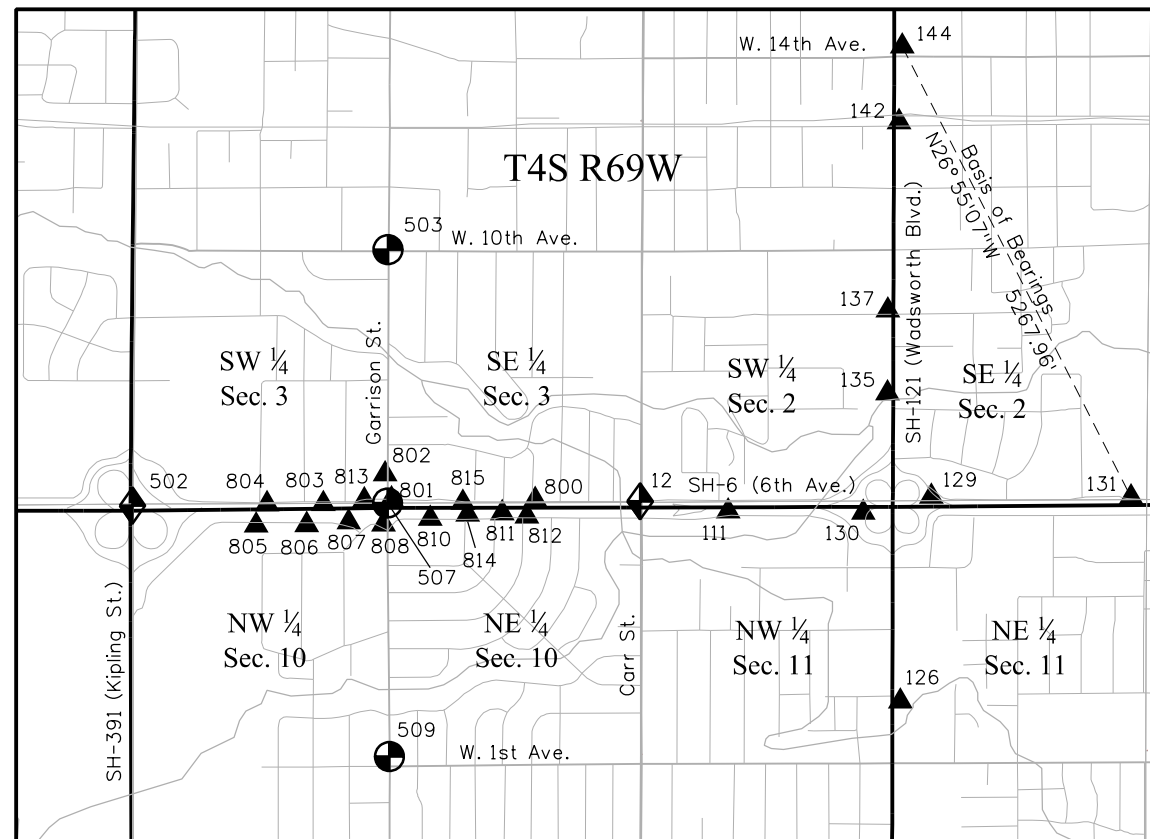
Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.

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 _____



Sheet Revisions

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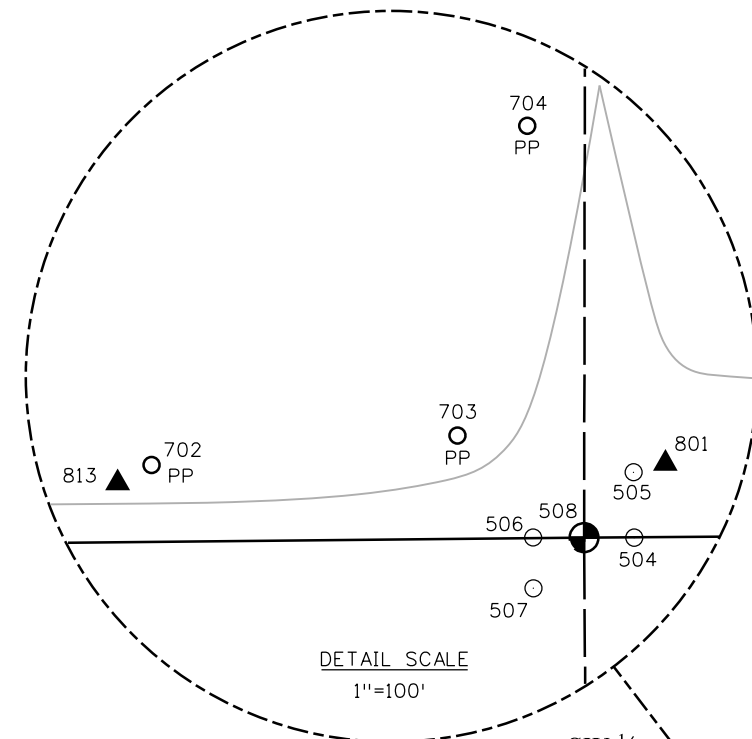
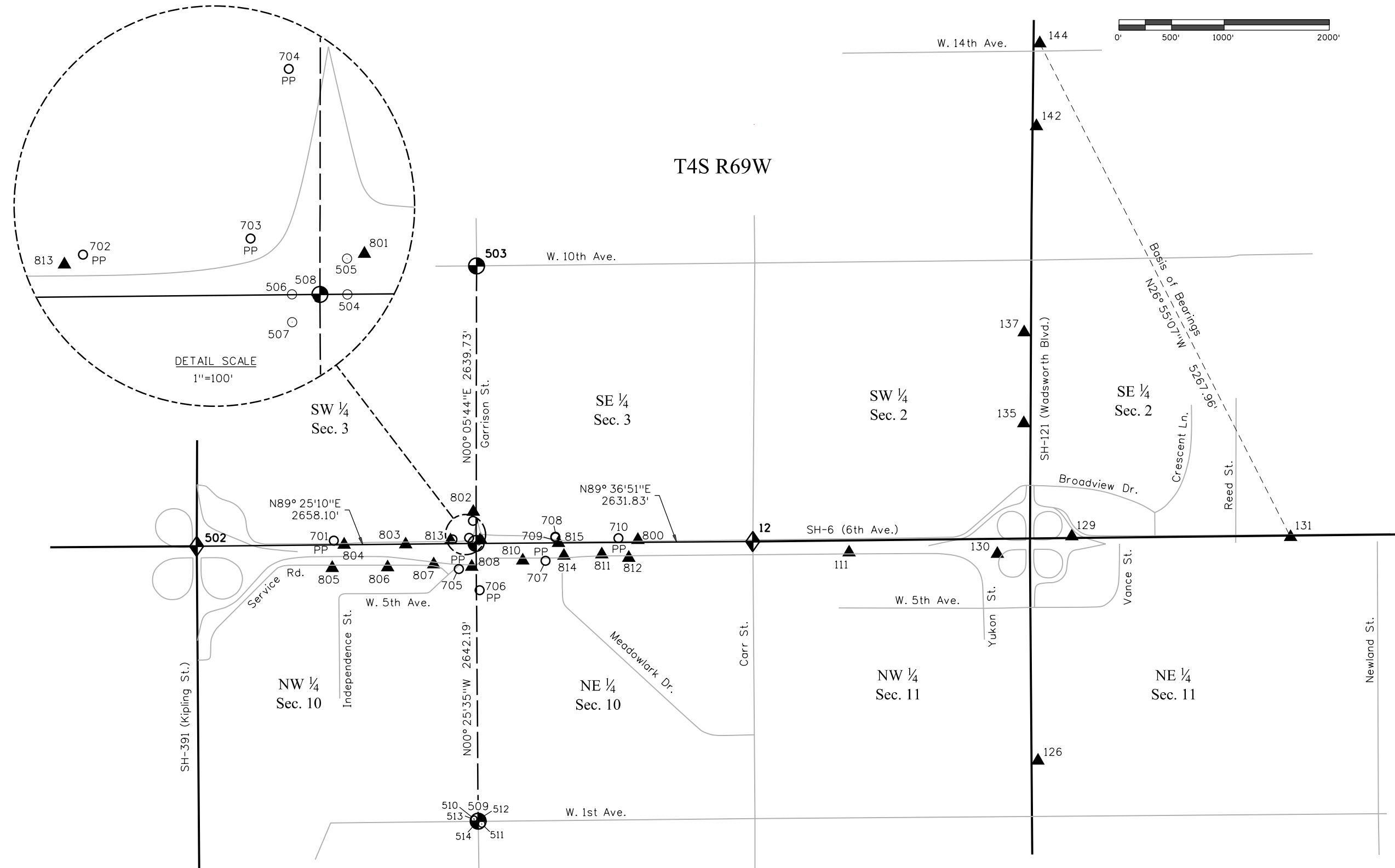


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HarrisKocherSmith.com

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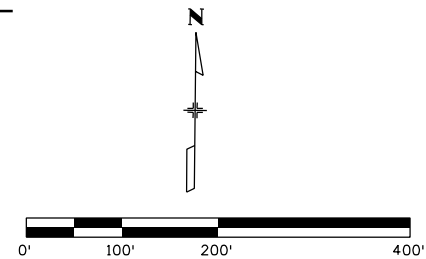
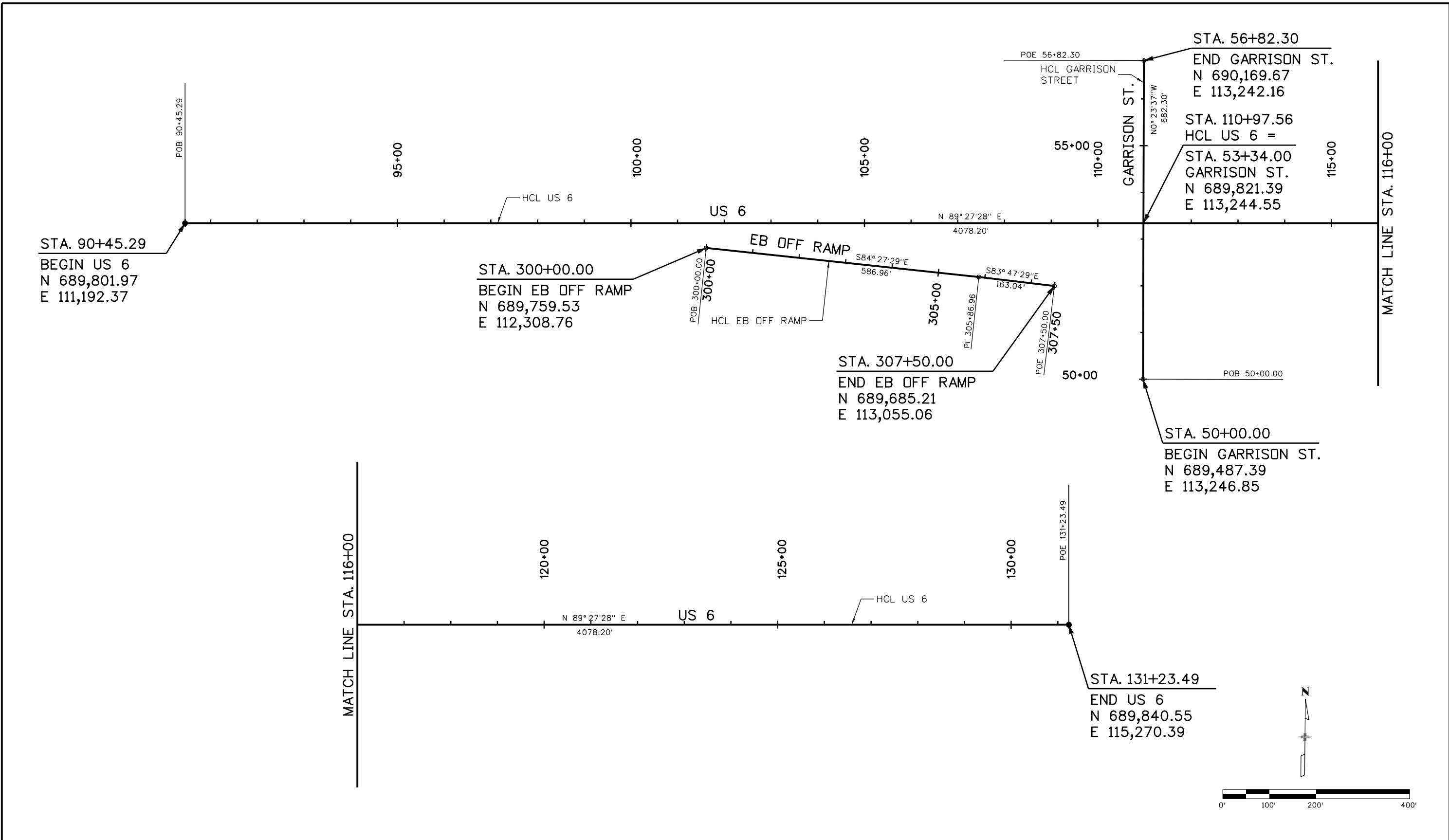
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Project Number:	FBR 0063-046		
Project Location:	SH-6 Road Improvements at Garrison St.		
	Sec. 2, 3, 10 & 11, T4S, R69W/6th PM, Jefferson County		
Project Code:	Last Mod. Date	Subset	Sheet No.
19478	02-07-14	4 of 4	4.04

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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Unit Information Unit Leader			Void:	Detailer: CS	13
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				Subset Sheets: GE1 of 1	13

Colorado Department of Transportation

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

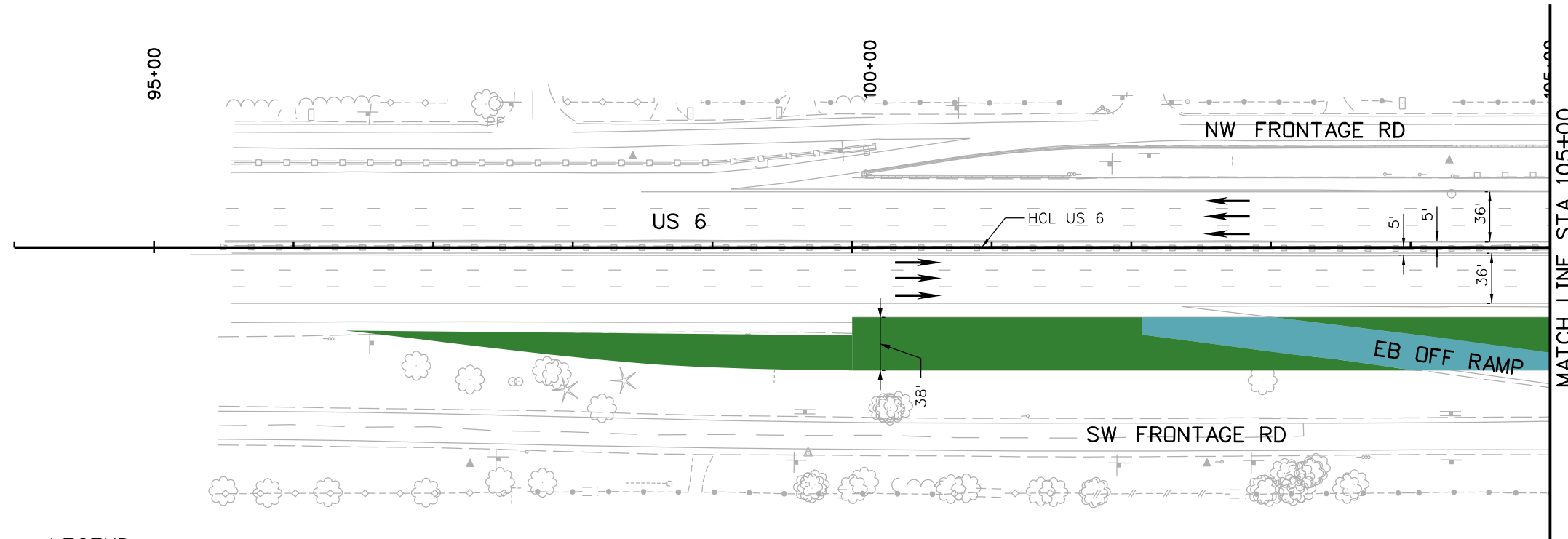
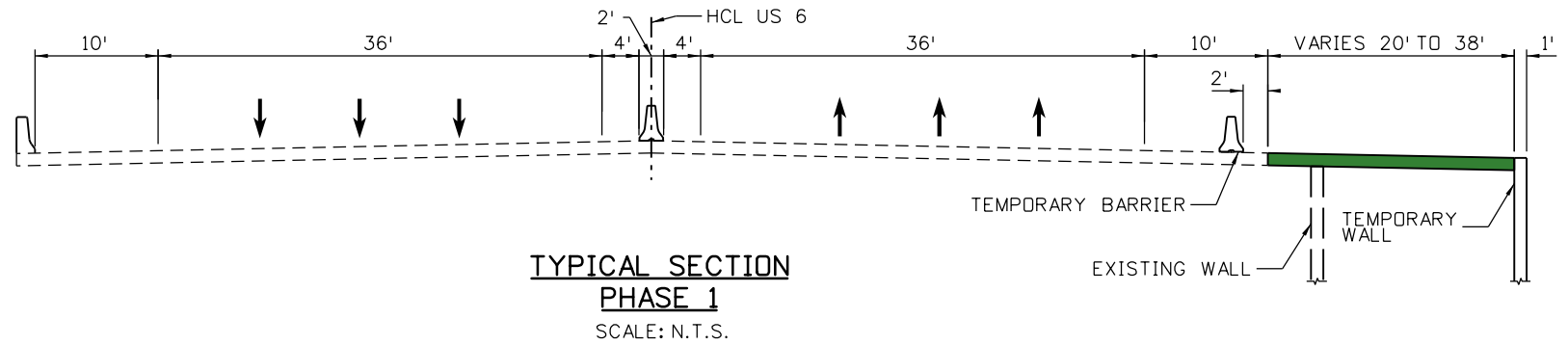
WORK IN PROGRESS

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.

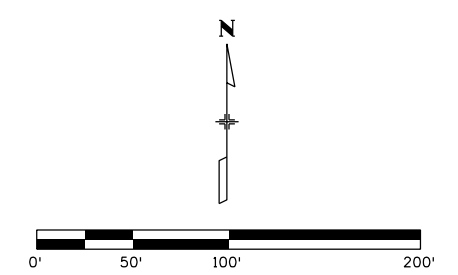


LEGEND

- 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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Colorado Department of Transportation

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Region 1 **KPB**

As Constructed
No Revisions:
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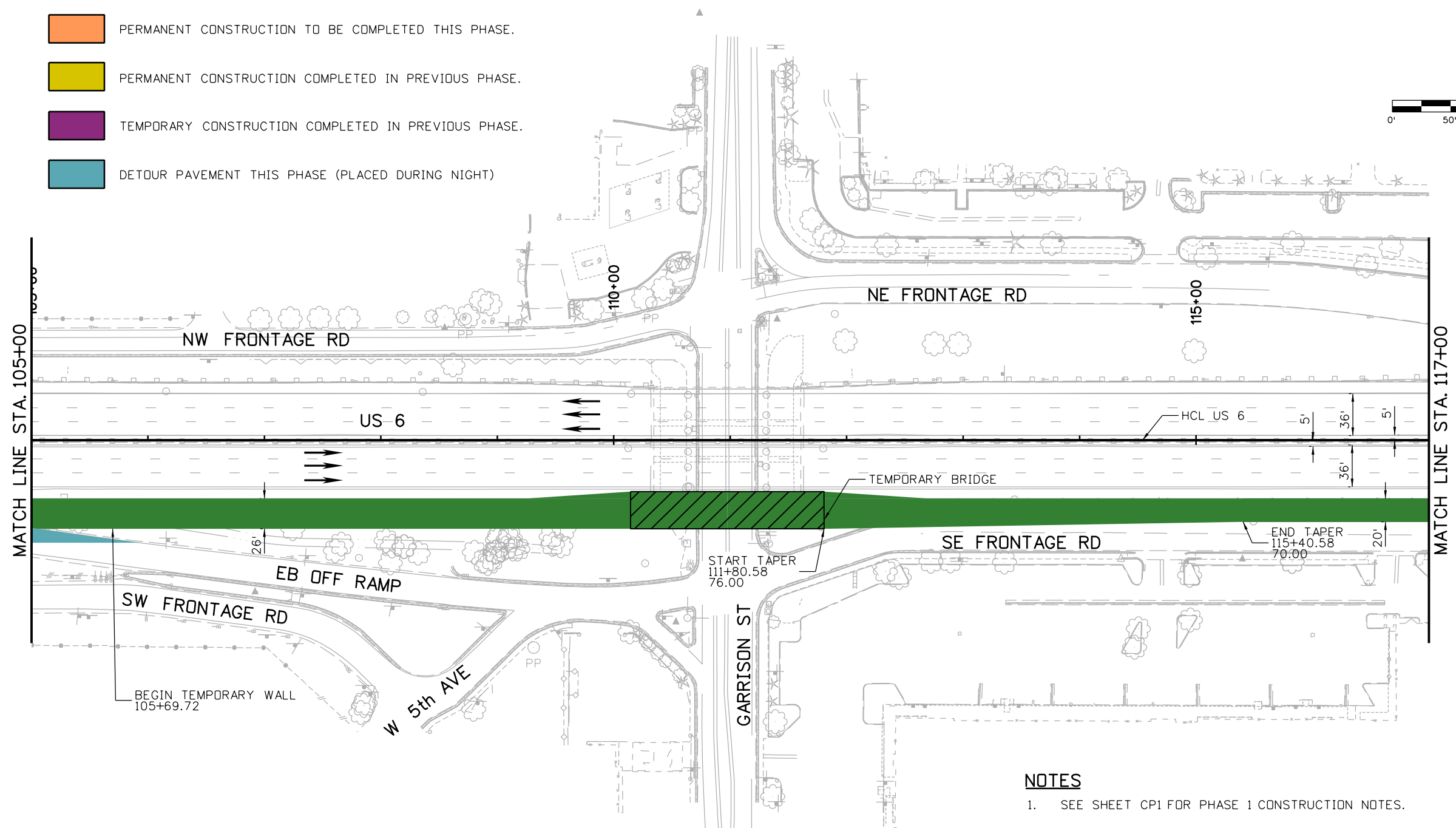
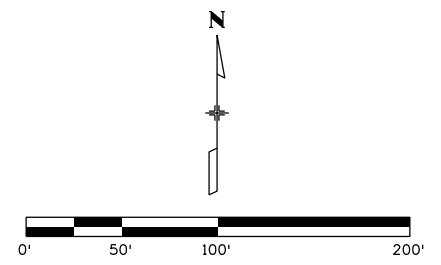
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US 6			
PHASE 1			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	CP1 of 12

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

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

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.

kristi.gempert@dot.state.co.us 4:58:10 PM P:\1404429D - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\PC Code\Design\Drawings\19478-PHASPL02.dgn

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Colorado Department of Transportation

 425 B Corporate Circle
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Region 1 **KPB**

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PHASE 1			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	CP2 of 12

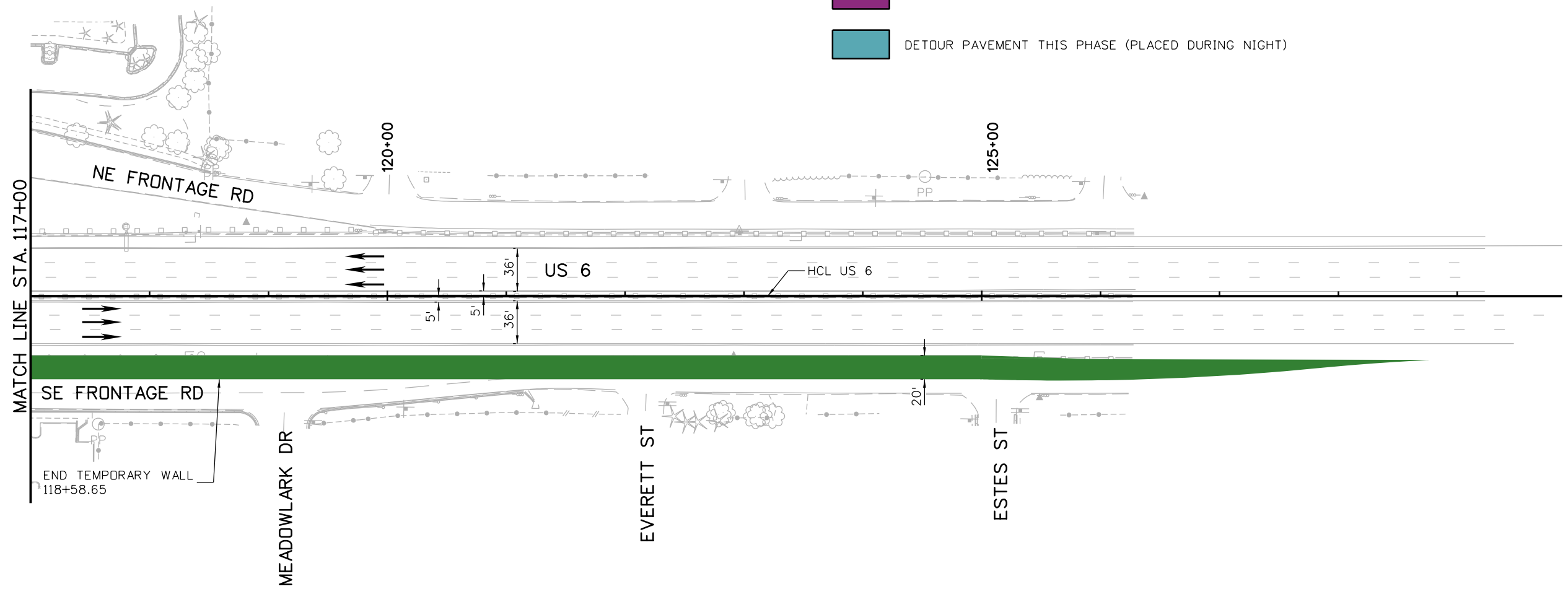
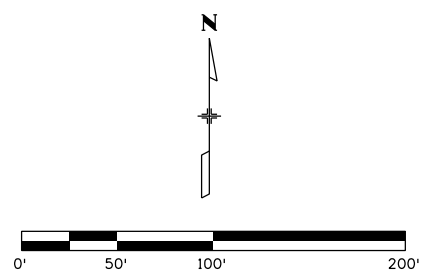
Project No./Code	FBR 0063-046
	19478
Sheet Number	15

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- 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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PHASE 1			
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Project No./Code
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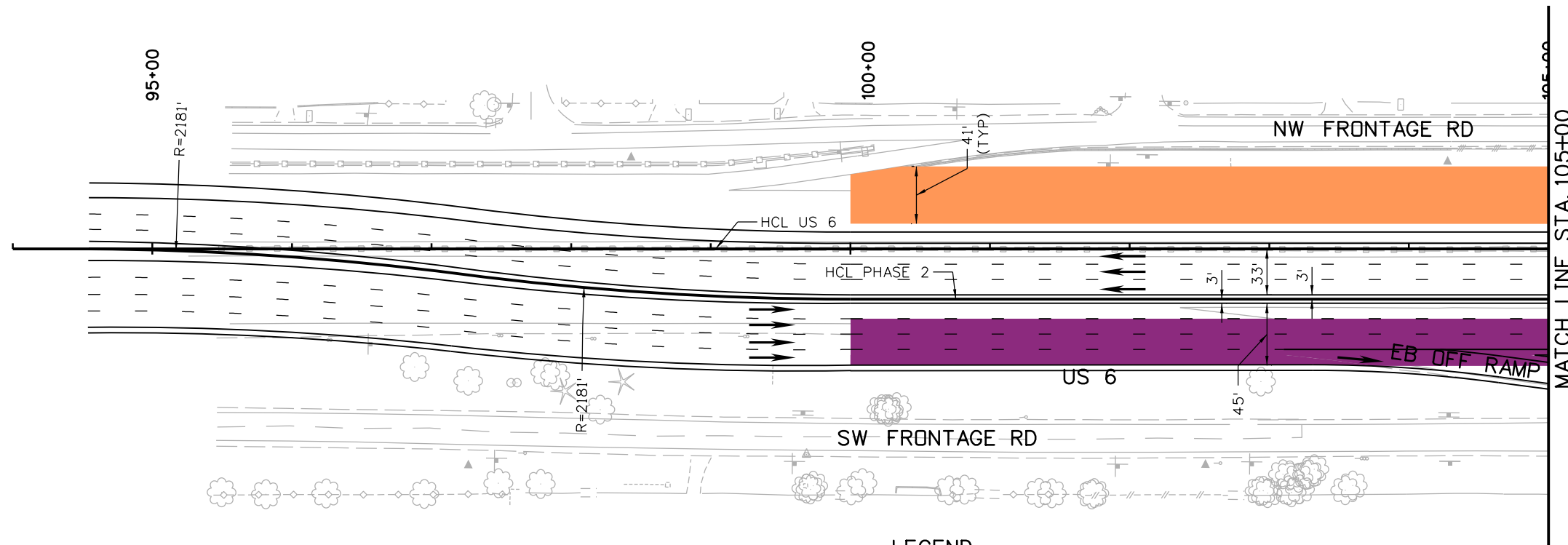
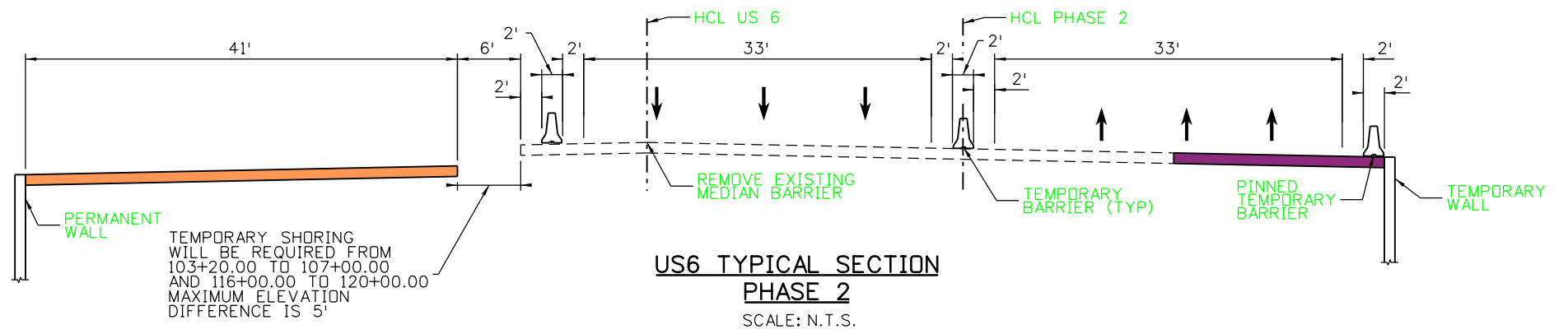
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CONSTRUCTION ACTIVITY PHASE 2

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

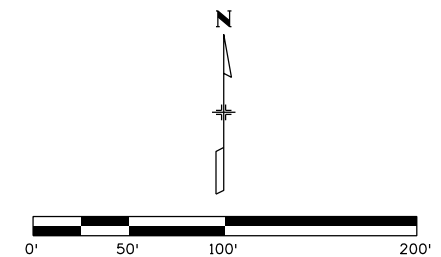
TRAFFIC MAINTENANCE PHASE 2

- 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)



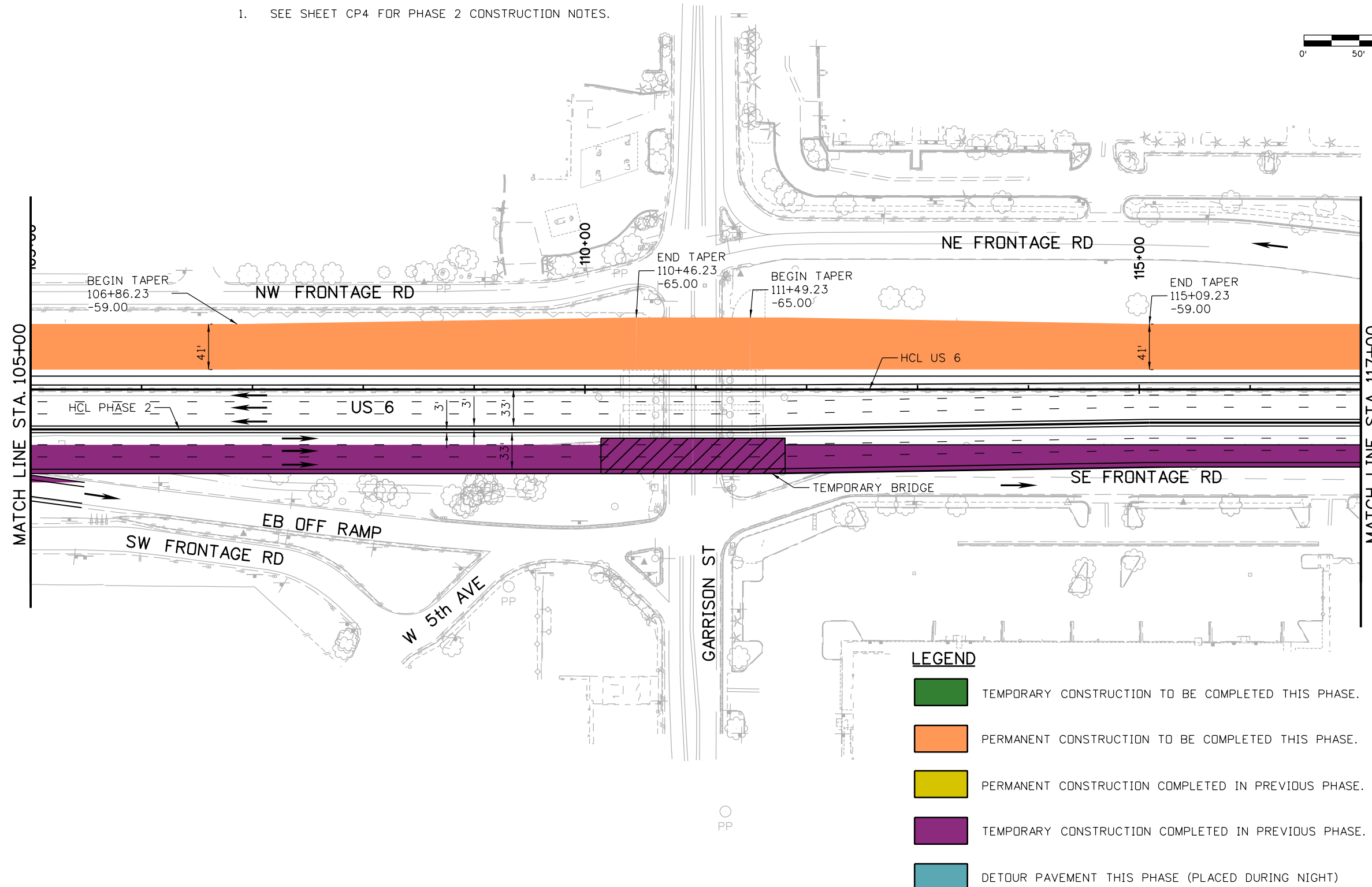
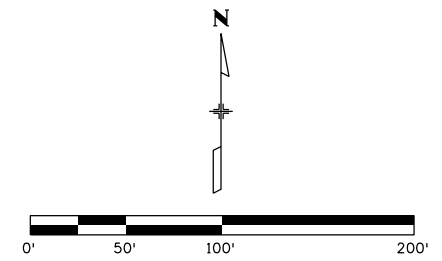
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Unit Information Unit Leader							Void:		Designer: CH	Structure	Subset Sheets: CP4 of 12		Sheet Number 17	
				Region 1			KPB		Sheet Subst: PHASING					

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NOTES

1. SEE SHEET CP4 FOR PHASE 2 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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Unit Information	Unit Leader

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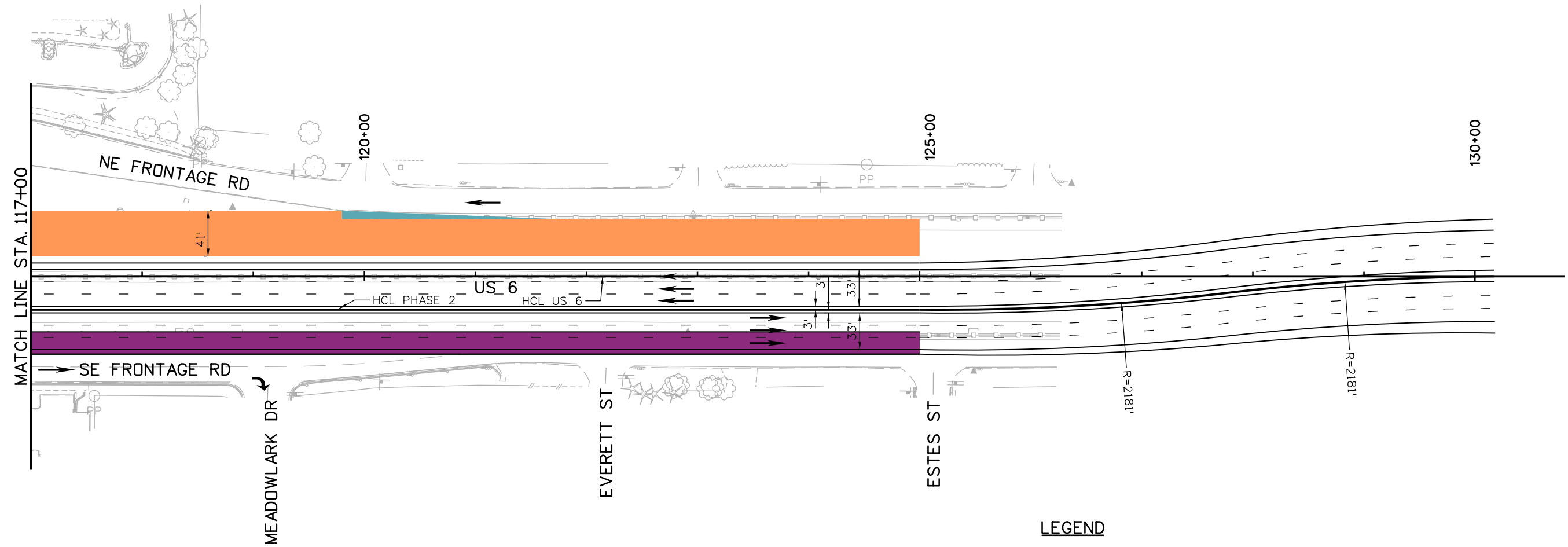
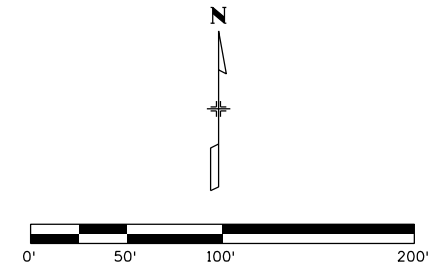
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Project No./Code
FBR 0063-046
19478
Sheet Number 18

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NOTES

1. SEE SHEET CP4 FOR PHASE 2 CONSTRUCTION NOTES.



LEGEND

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

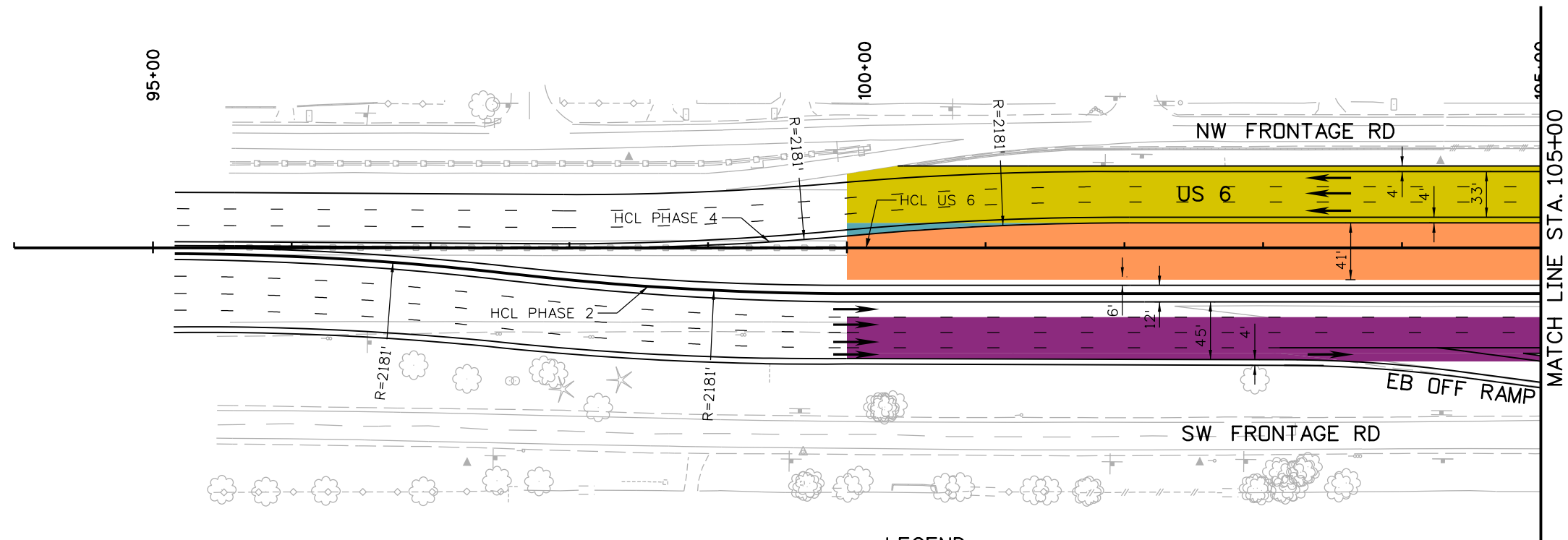
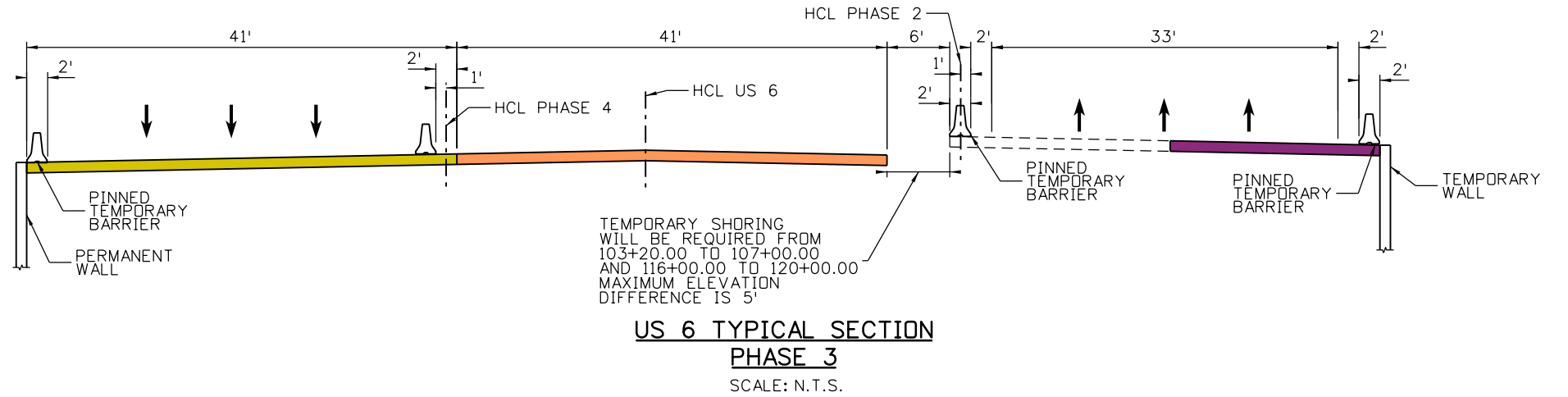
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CONSTRUCTION ACTIVITY PHASE 3

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

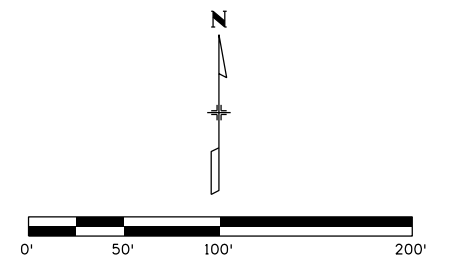
TRAFFIC MAINTENANCE PHASE 3

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



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Unit Information	Unit Leader

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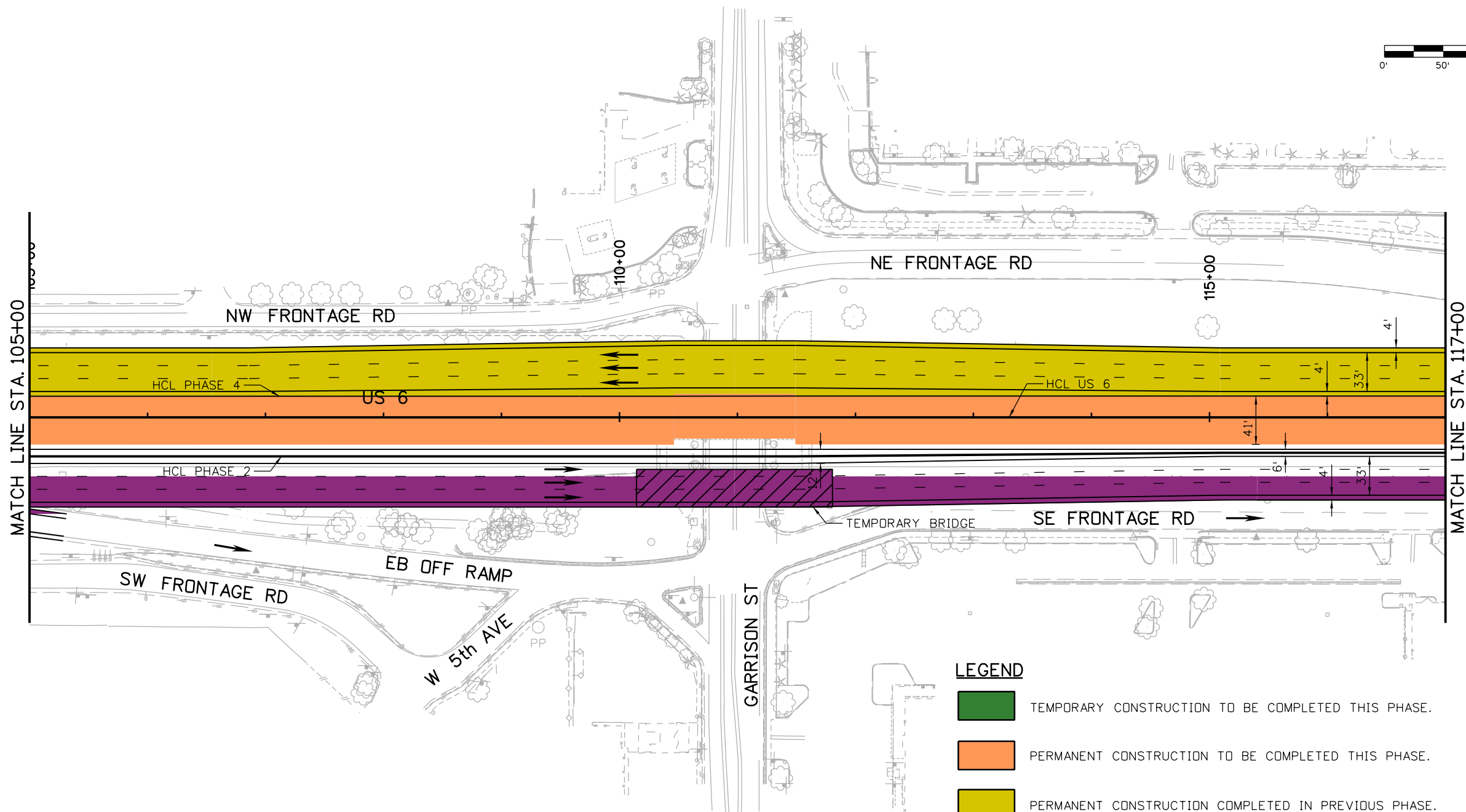
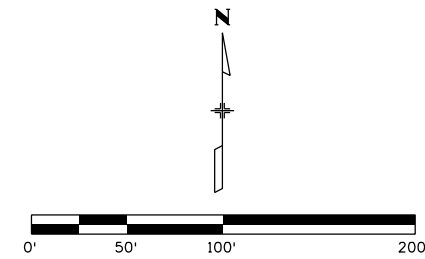
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Project No./Code
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19478
Sheet Number 20

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NOTES

1. 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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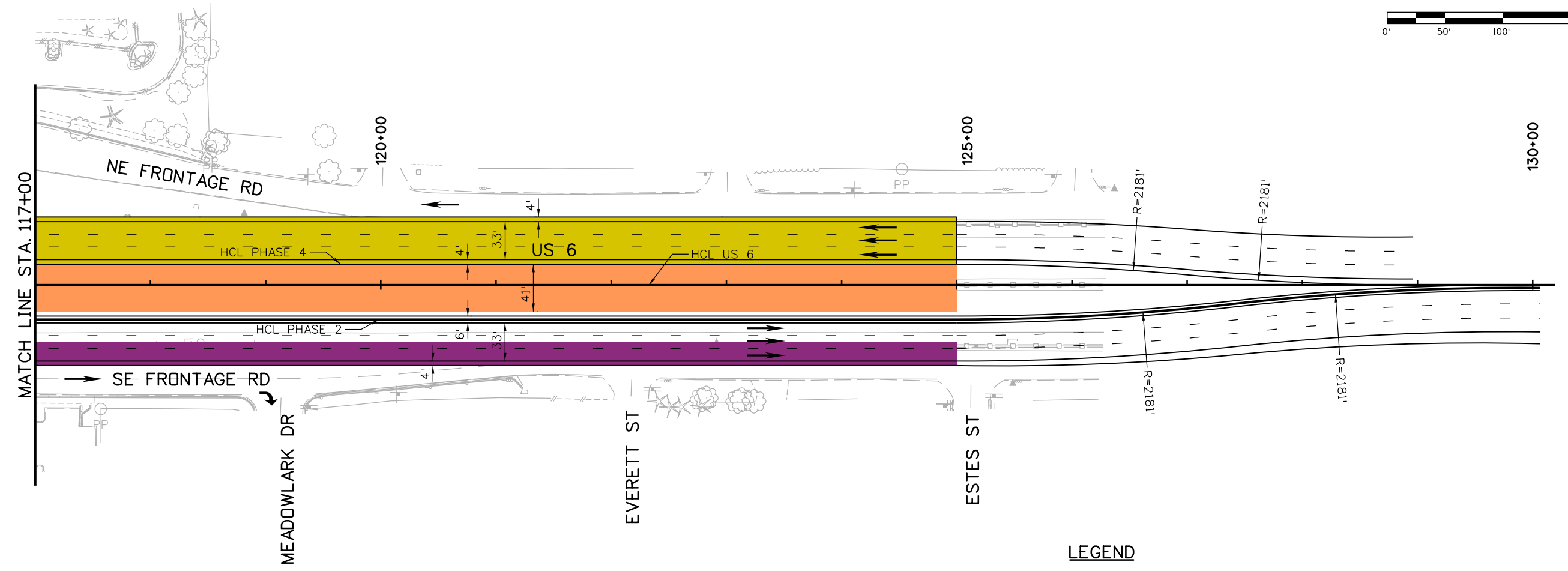
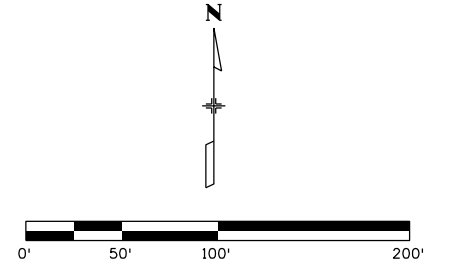
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Sheet Subset:	PHASING	Subset Sheets:	CP8 of 12

Project No./Code	FBR 0063-046
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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.
- PERMANENT CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- TEMPORARY CONSTRUCTION COMPLETED IN PREVIOUS PHASE.
- DETOUR PAVEMENT THIS PHASE (PLACED DURING NIGHT)

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Designer:	CH	Structure	
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Project No./Code	FBR 0063-046
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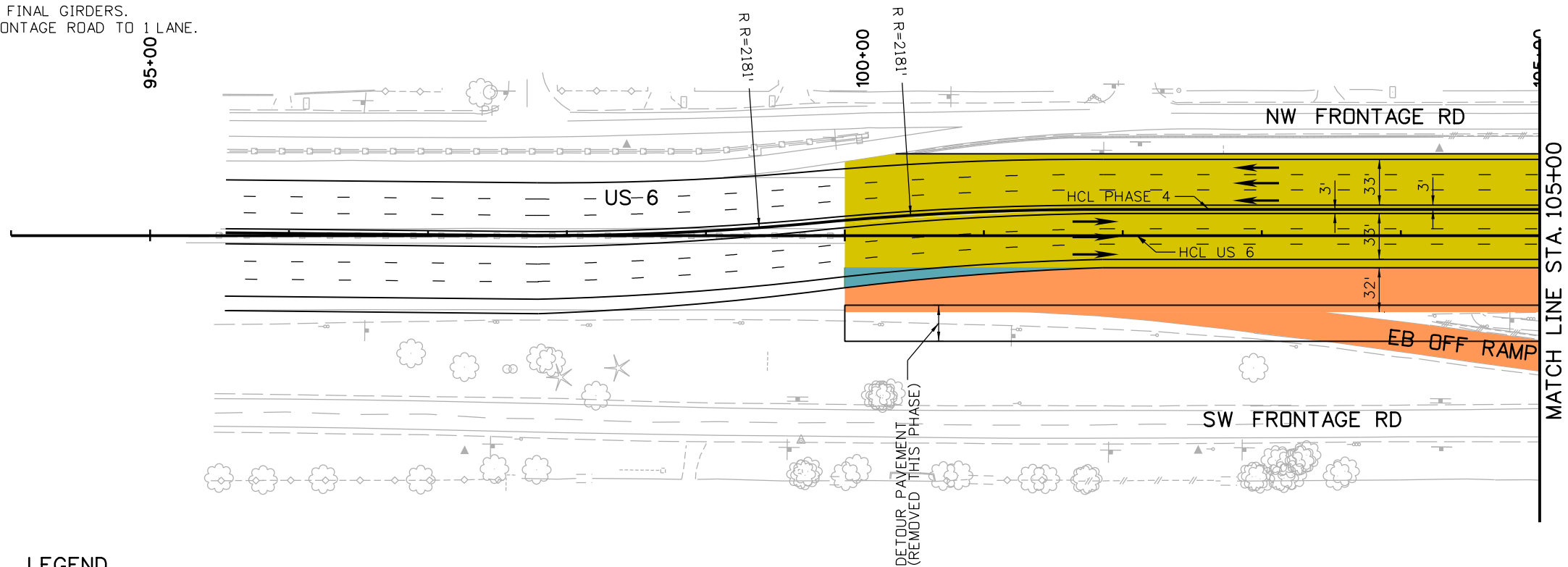
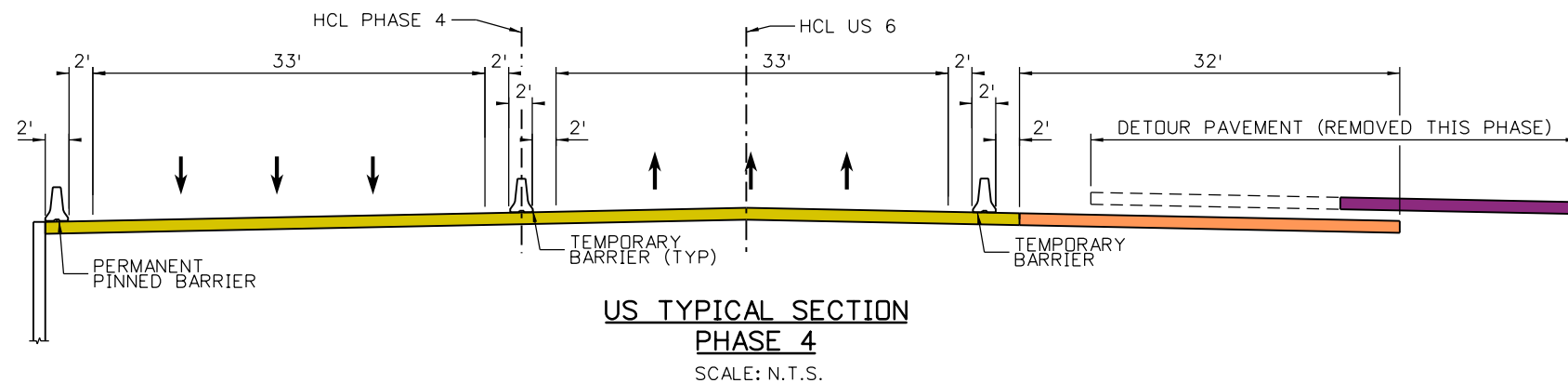
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CONSTRUCTION ACTIVITY PHASE 4

- 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.

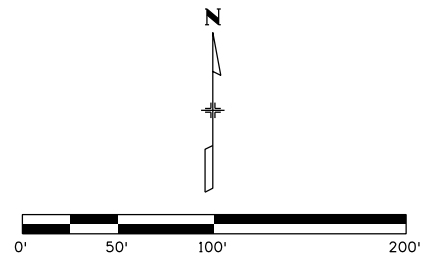
TRAFFIC MAINTENANCE PHASE 4

- 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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Unit Information Unit Leader	

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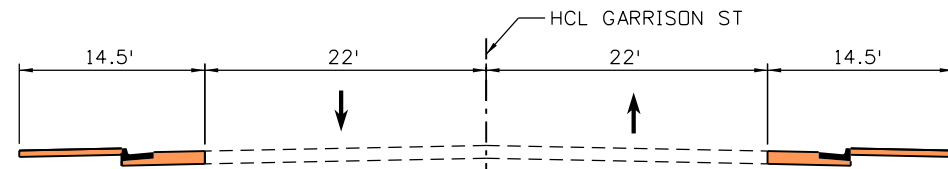
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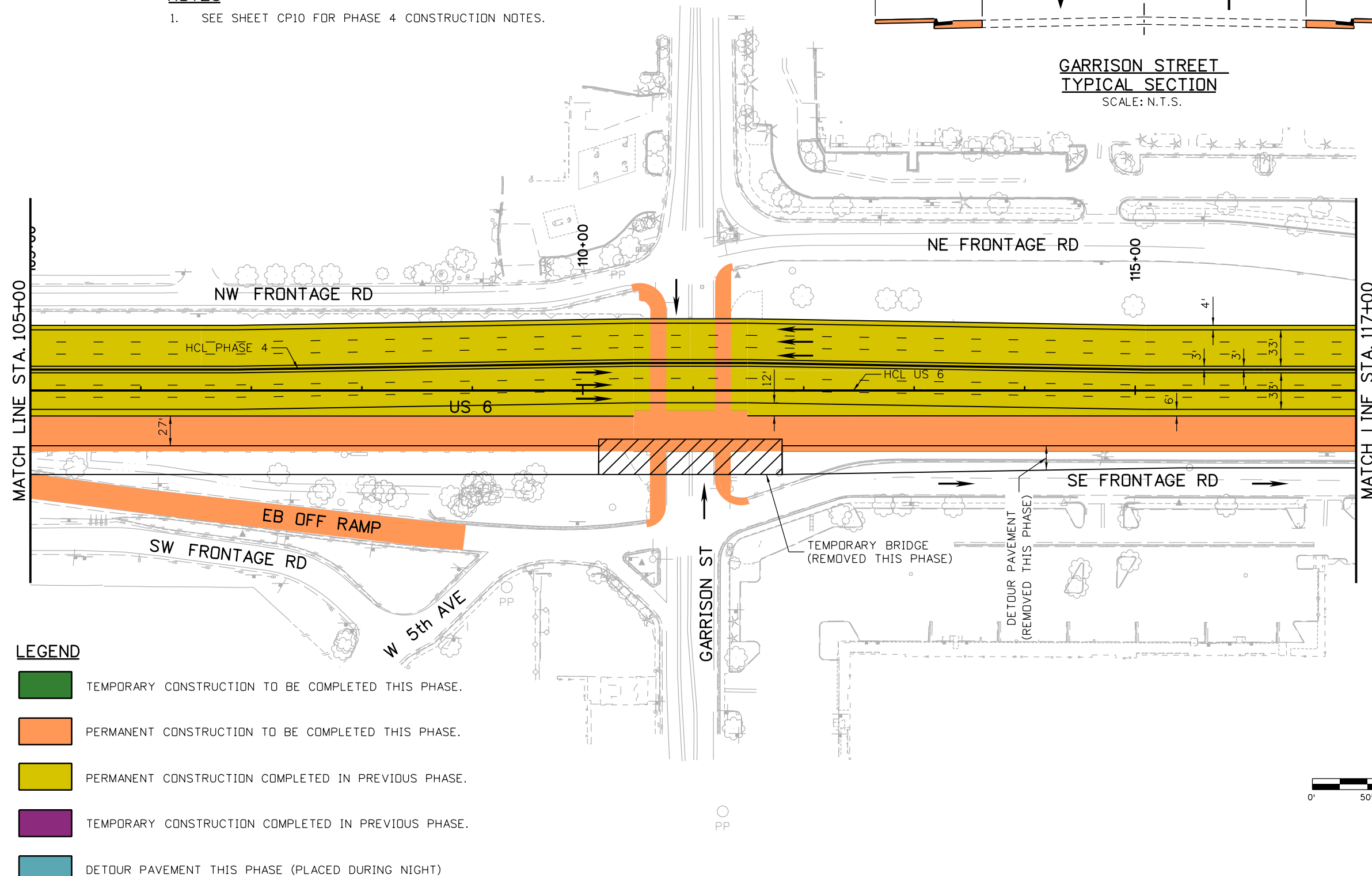
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NOTES

1. SEE SHEET CP10 FOR PHASE 4 CONSTRUCTION NOTES.

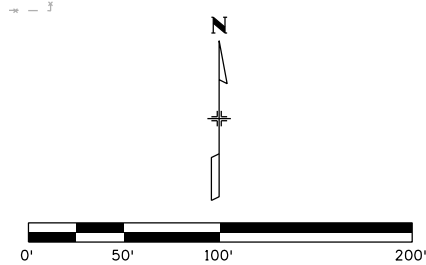


**GARRISON STREET
TYPICAL SECTION**
SCALE: N.T.S.



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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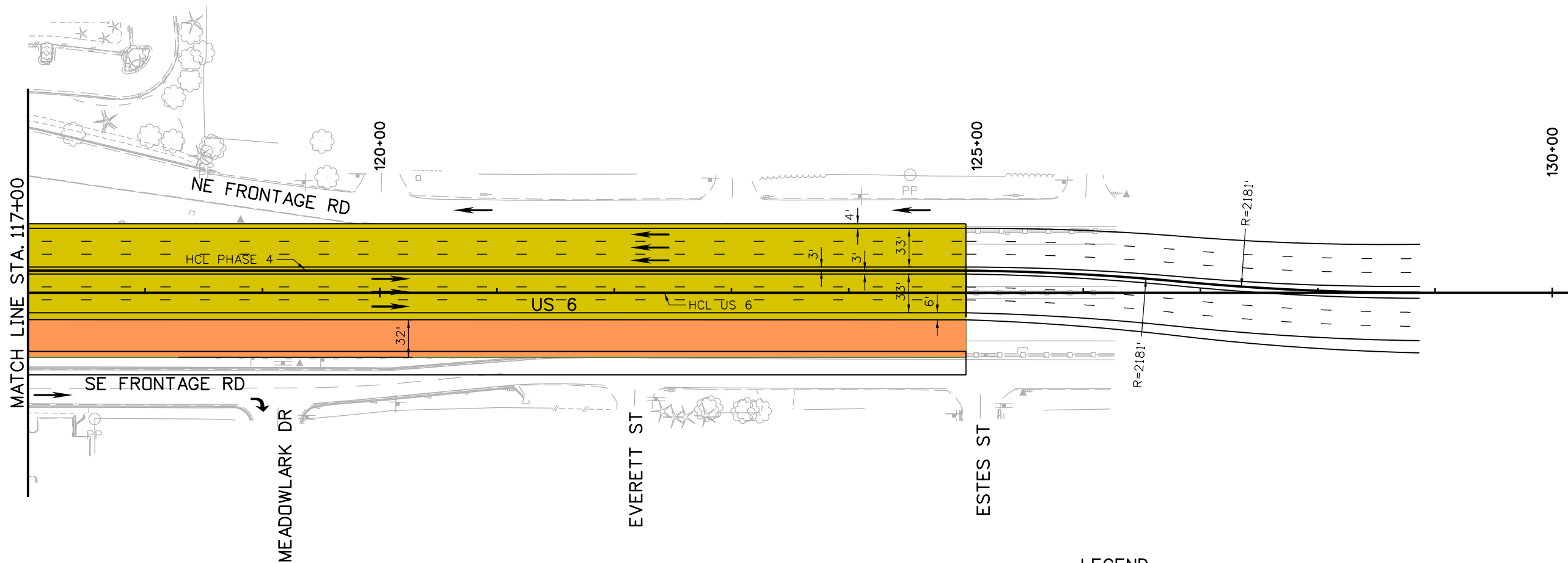
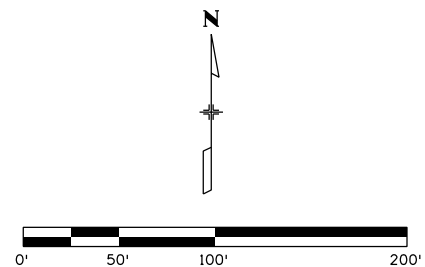
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Project No./Code	FBR 0063-046
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NOTES

1. SEE SHEET CP10 FOR PHASE 4 CONSTRUCTION NOTES.



LEGEND

- TEMPORARY CONSTRUCTION TO BE COMPLETED THIS PHASE.
- PERMANENT CONSTRUCTION TO BE COMPLETED THIS PHASE.
- 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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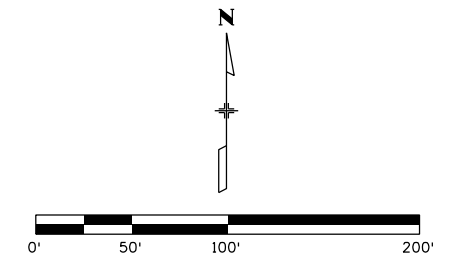
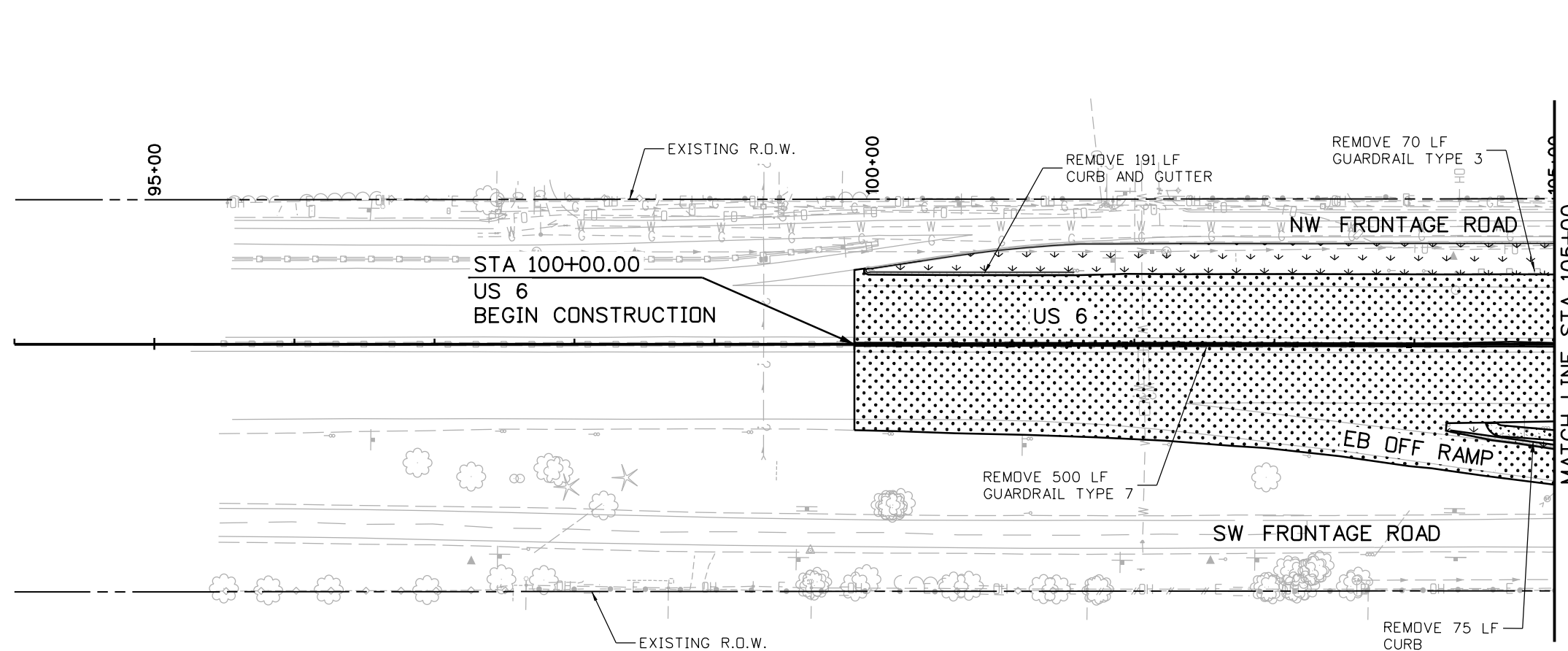
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LEGEND:



-  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.

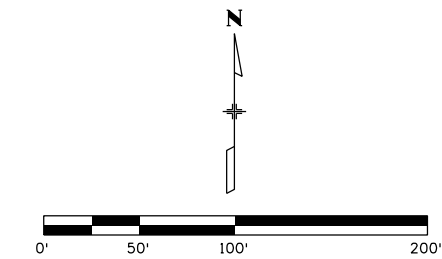
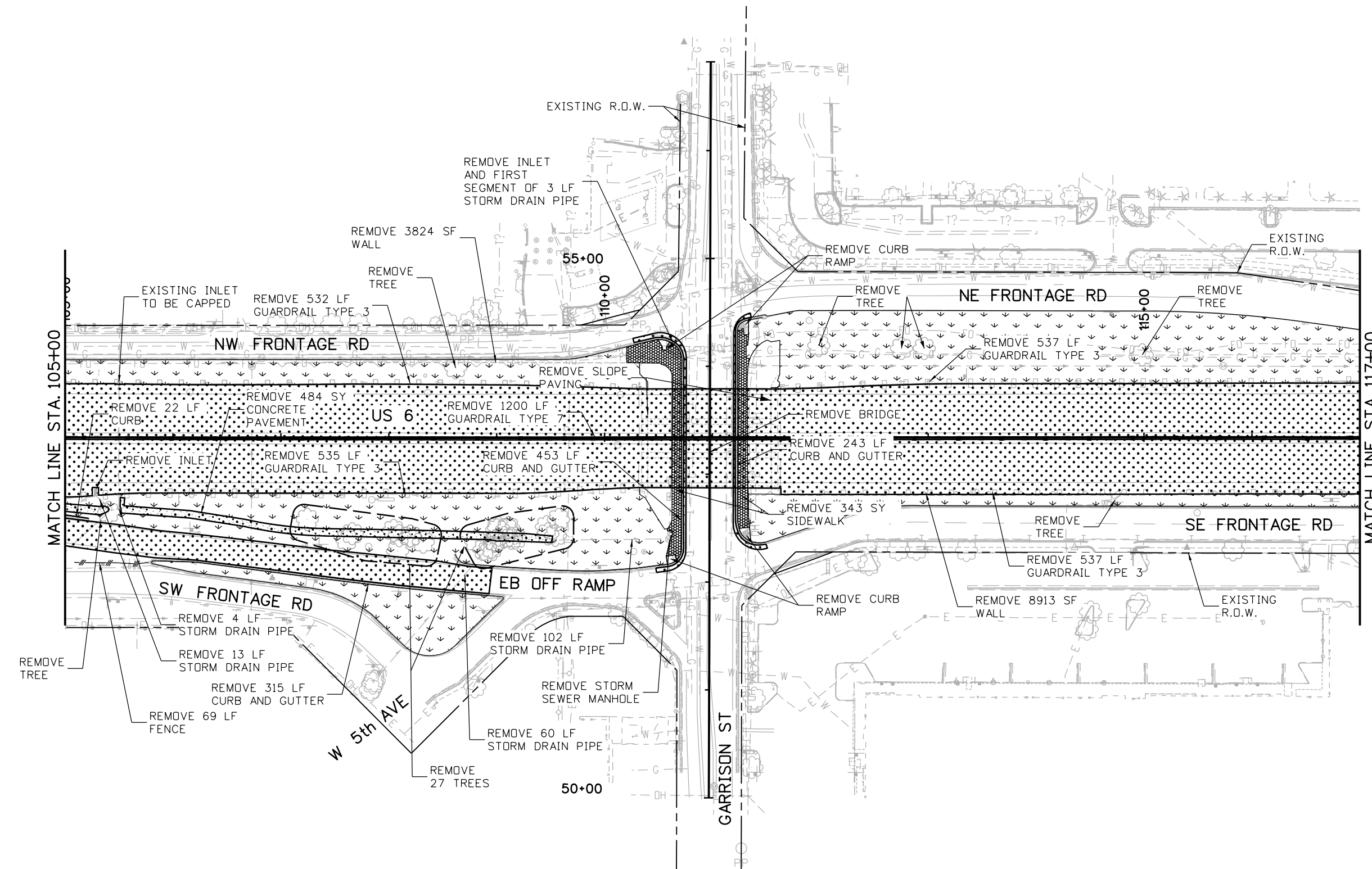


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WORK IN PROGRESS

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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

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

Region 1 **KPB**

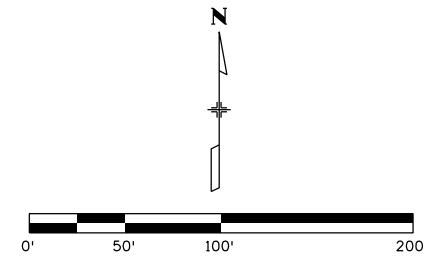
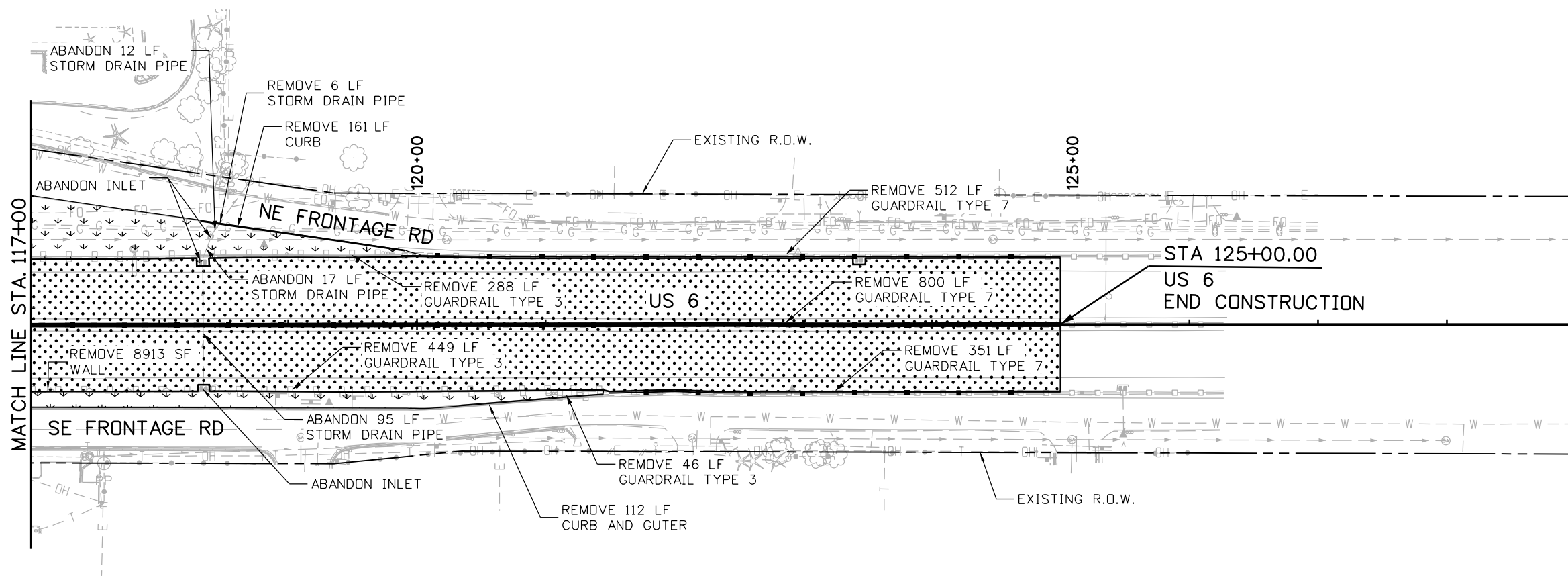
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Revised:
Void:

REMOVAL PLAN		
US 6		
STA 105+00 TO STA 117+00		
Designer:	CH	Structure
Detailer:	CS	Numbers
Sheet Subset: REMOVAL	Subset Sheets: RM2 of 3	

Project No./Code
?
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	0000
File Name: 19478-ROADPL-DMUS6-03.dgn	
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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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

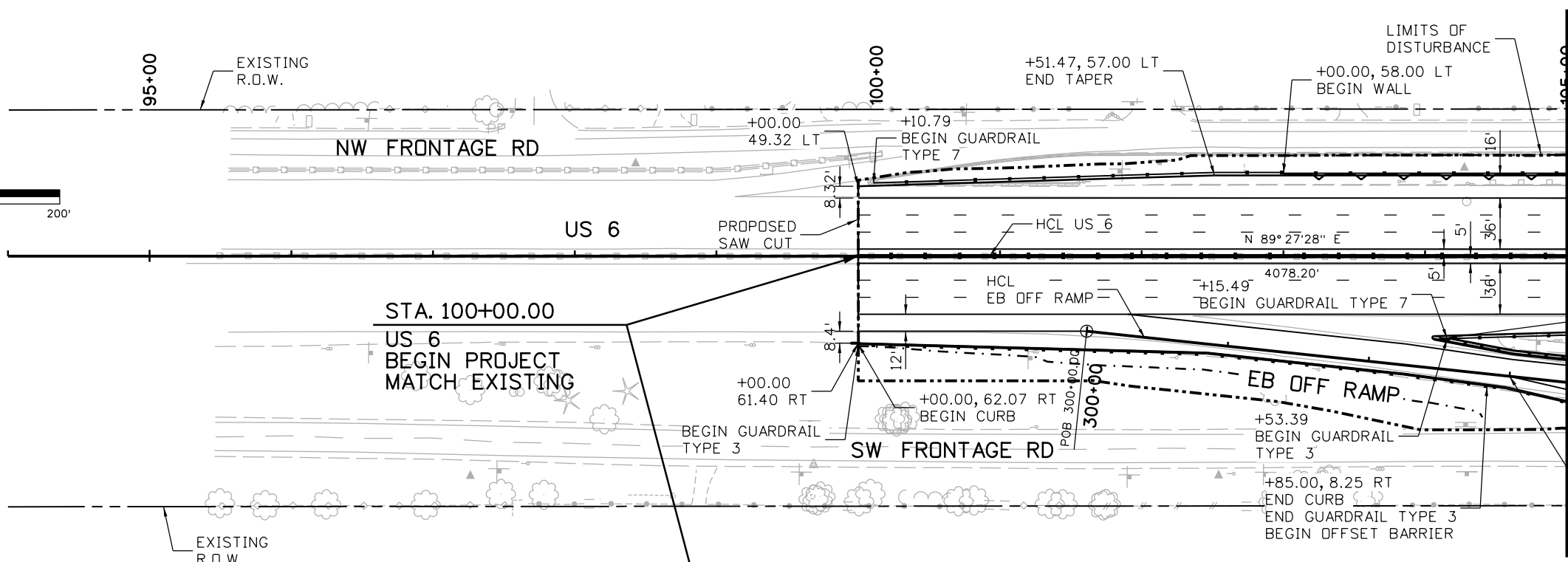
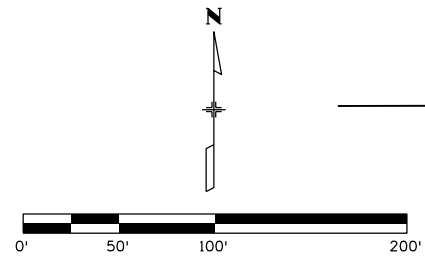
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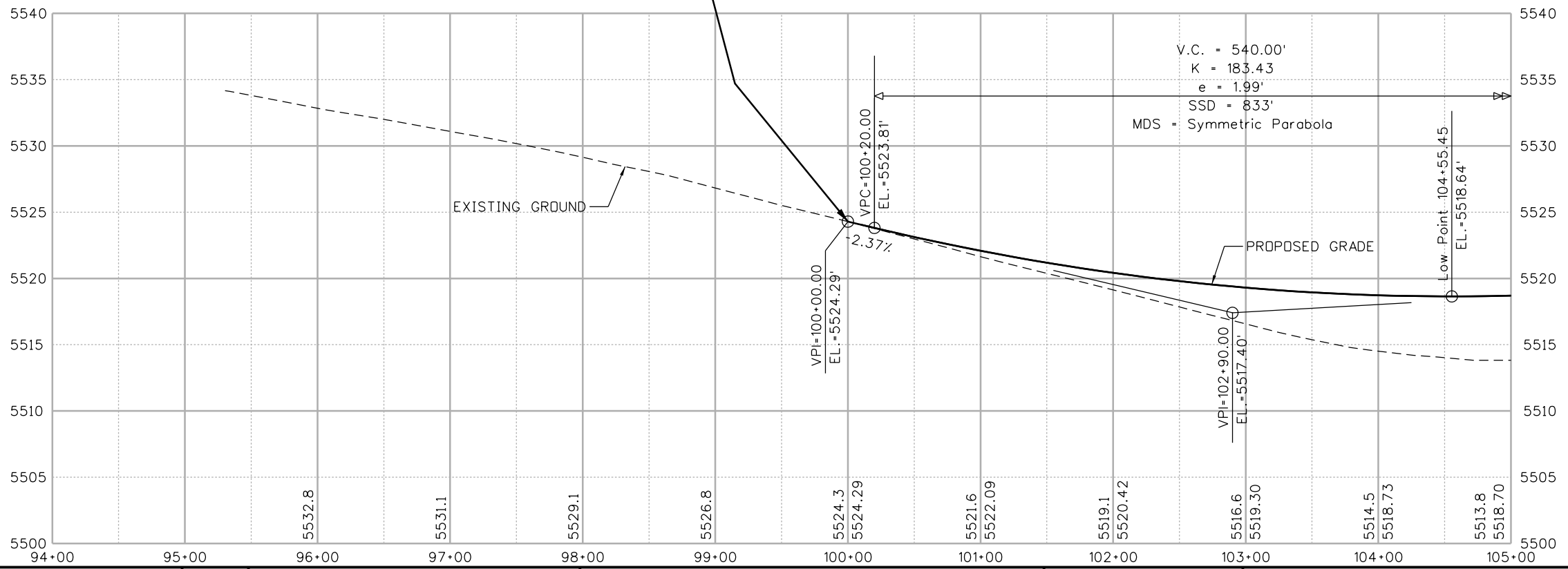
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US 6		
STA 117+00 TO STA 125+00		
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Detailer:	CS	Numbers
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Project No./Code	?
19478	
Sheet Number	28

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

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

Region 1 KPB

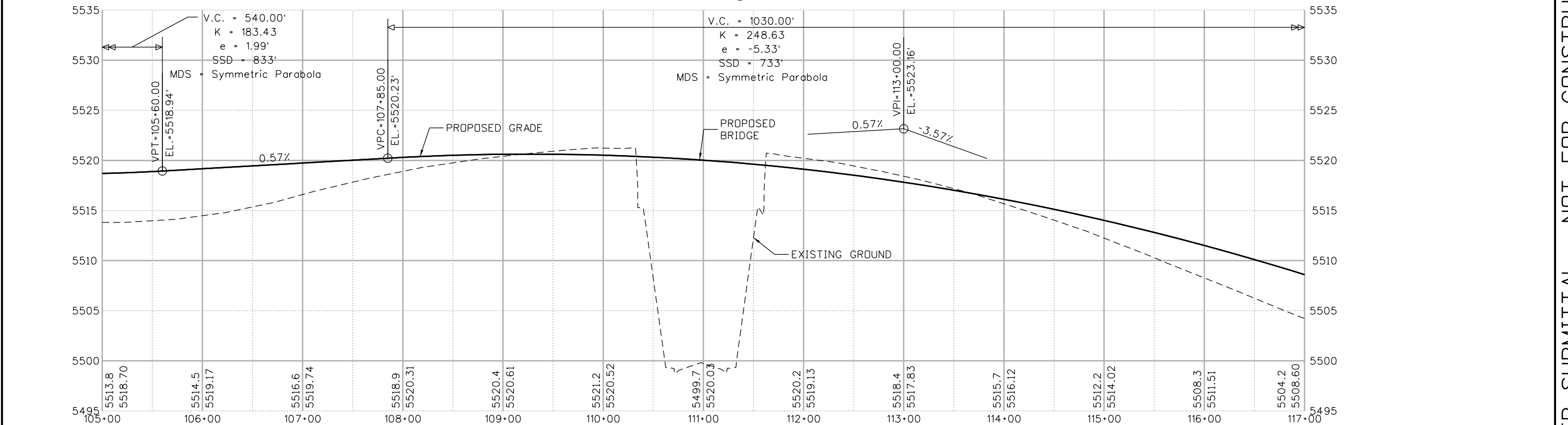
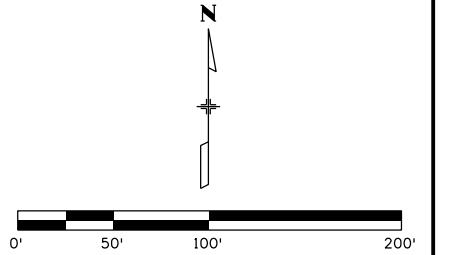
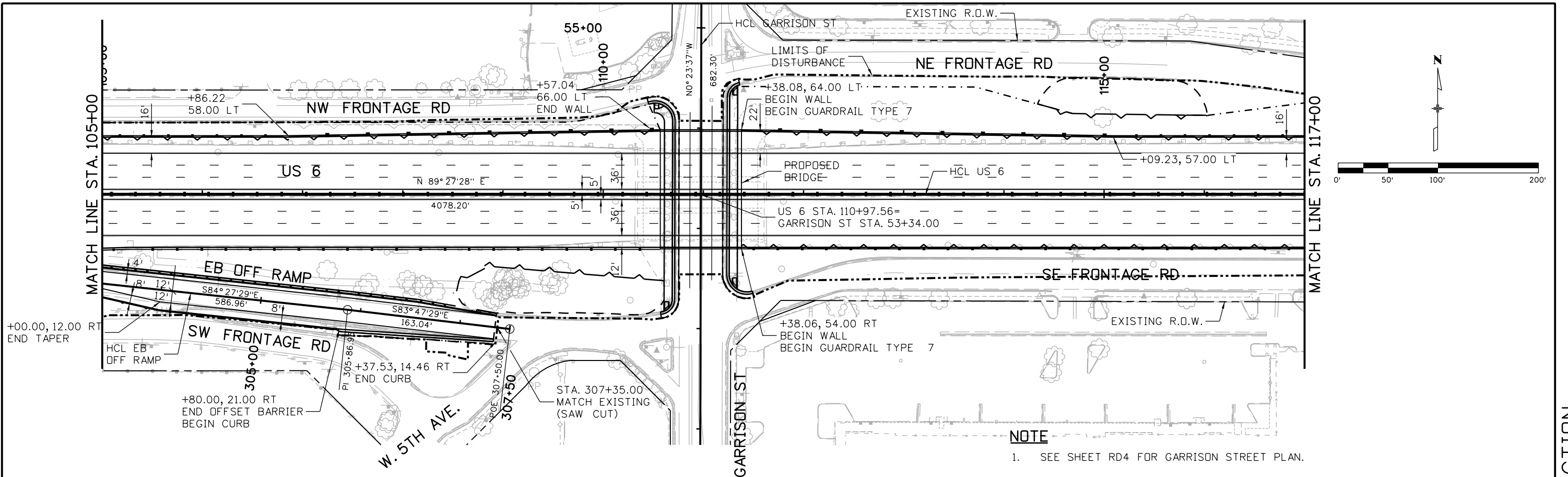
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Revised:
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ROADWAY PLAN AND PROFILE US 6 STA. 94+00 TO STA. 105+00			
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Detailer:	CS	Numbers	
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Project No./Code
FBR 0063-046
19478
Sheet Number 29

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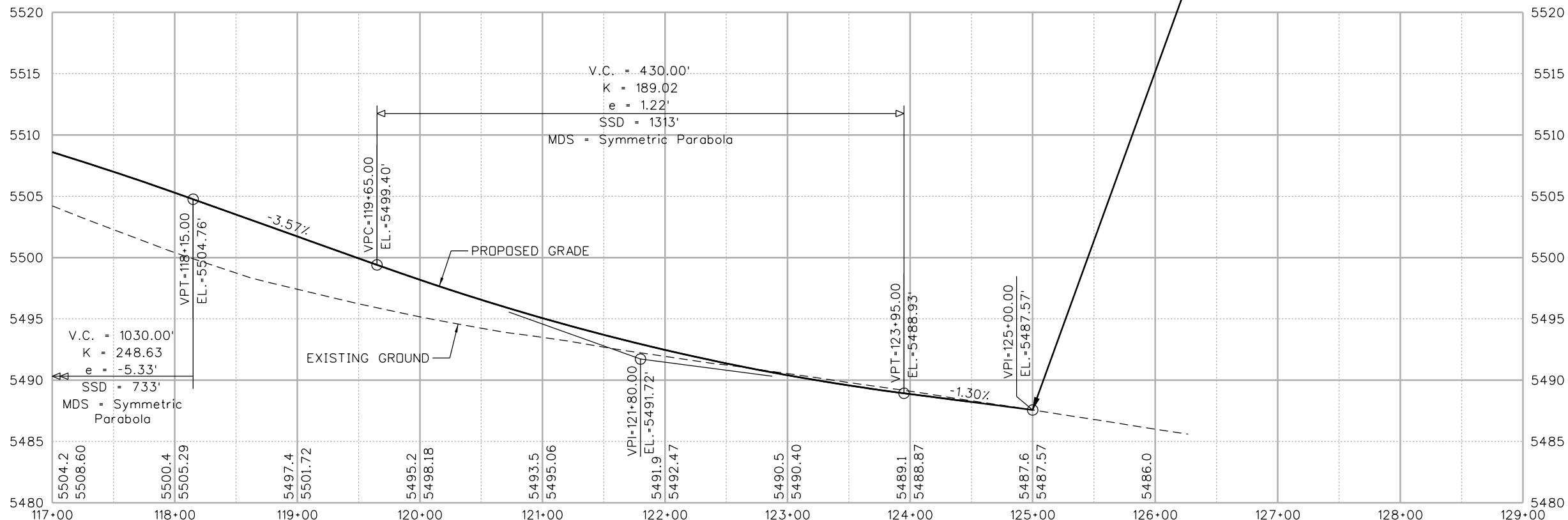
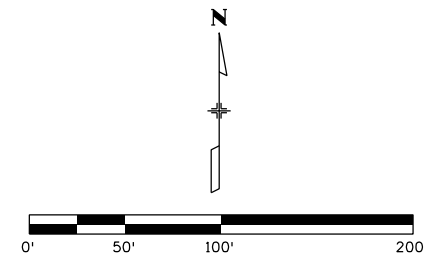
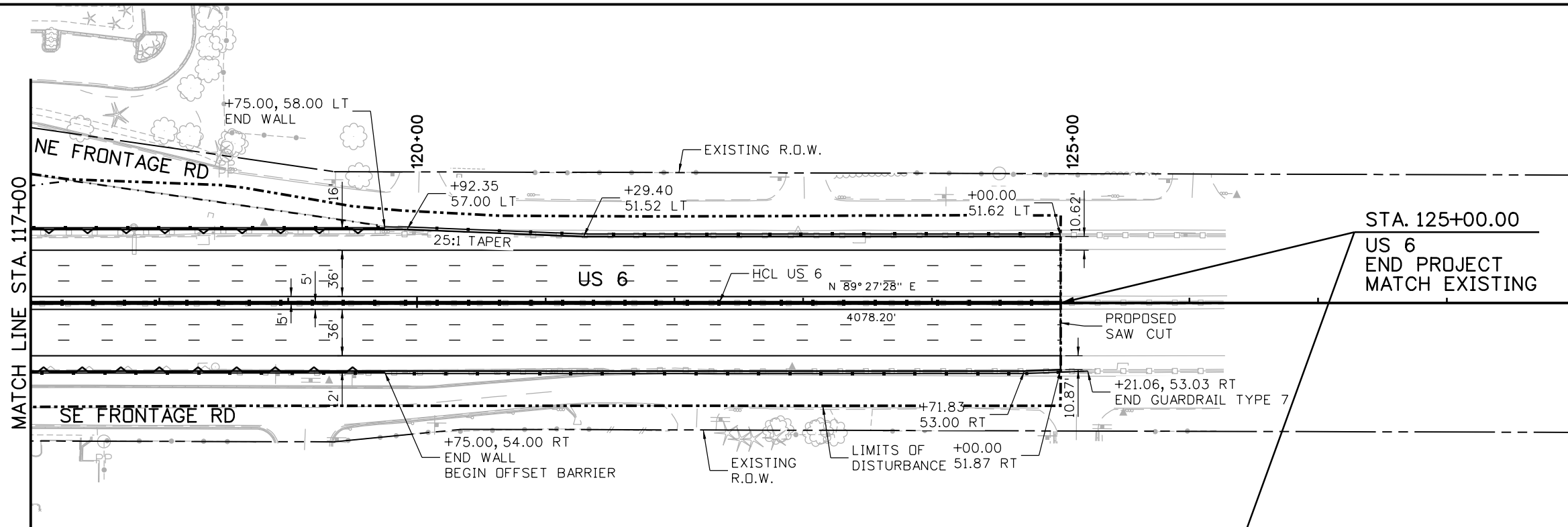
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Unit Information _	Unit Leader _				Void:	Designer: CH	Structure Numbers	30		
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						Sheet Subset: ROADWAY				

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File Name: 19478-ROADPLPR-03.dgn	
Horiz. Scale: 1:100	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

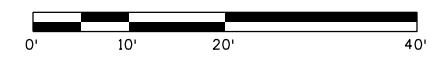
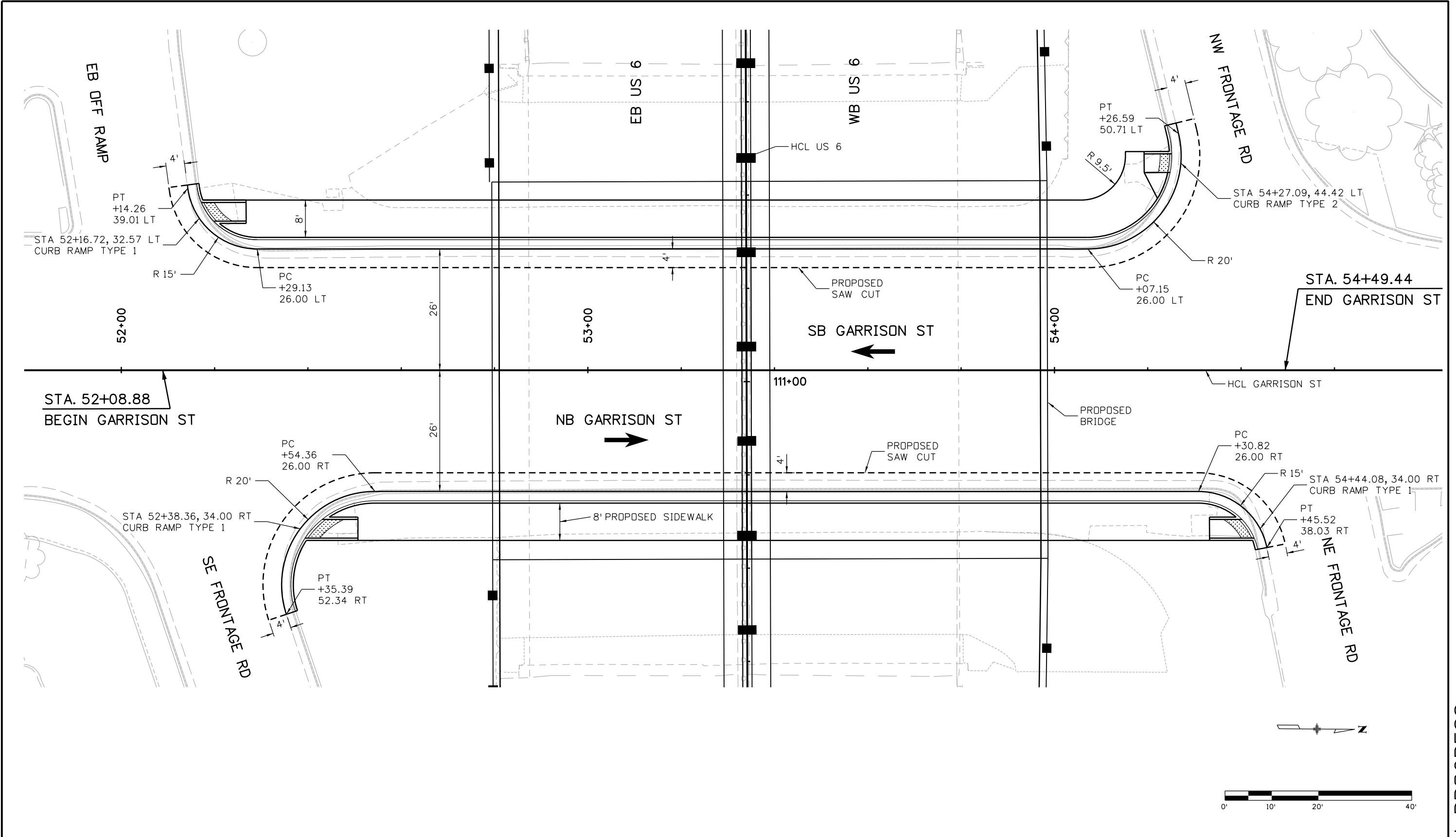
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ROADWAY PLAN AND PROFILE			
US 6			
STA. 117+00 TO STA. 126+00			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	ROADWAY	Subset Sheets:	RD3 of 6

Project No./Code	
FBR 0063-046	
19478	
Sheet Number	31

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

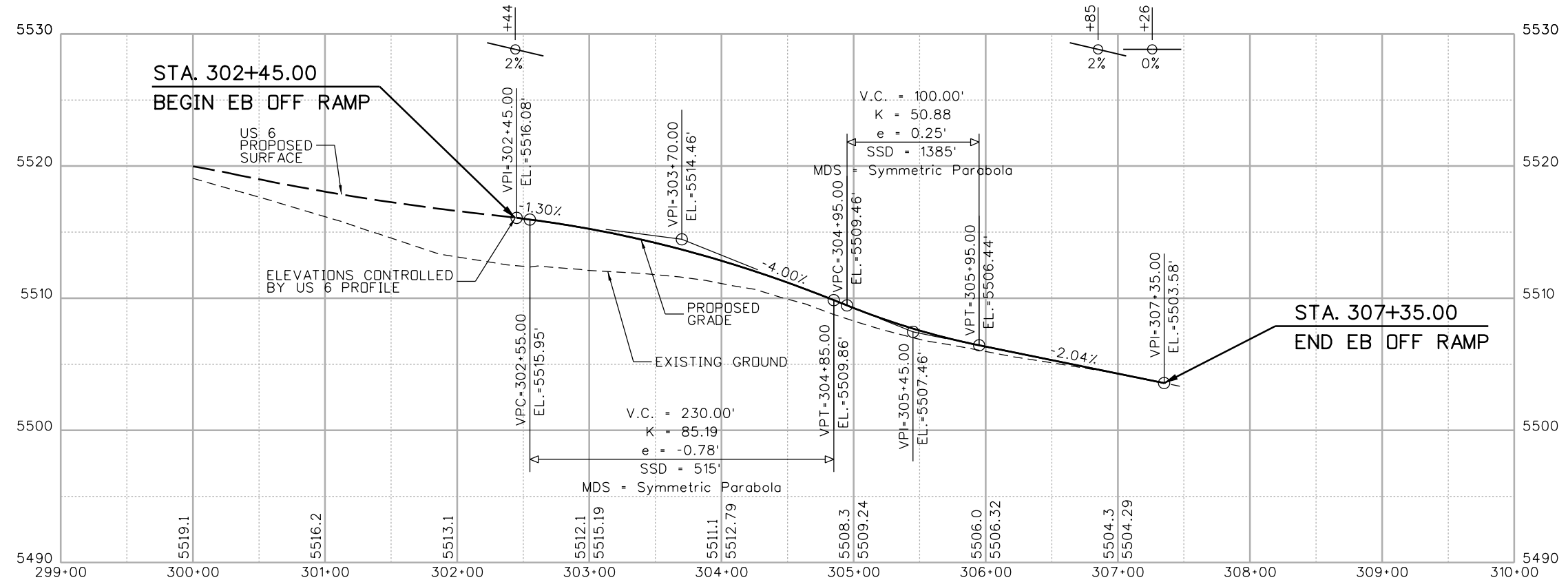
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Print Date: 7/2/2014 File Name: 19478-ROADPL-01.dgn Horiz. Scale: 1:20 Vert. Scale: Unit Information Unit Leader		Sheet Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Date:</th> <th style="width: 55%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	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:	ROADWAY PLAN GARRISON STREET Designer: CH Structure: Detailer: CS Numbers: Sheet Subset: ROADWAY Subset Sheets: RD4 of 6	Project No./Code ? 19478 Sheet Number 32
Date:	Comments	Init.													

WORK IN PROGRESS

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EB OFF RAMP PROFILE

Print Date: 7/2/2014
File Name: 19478-ROADPR-01.dgn
Horiz. Scale: 1:100 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**

As Constructed
No Revisions:
Revised:
Void:

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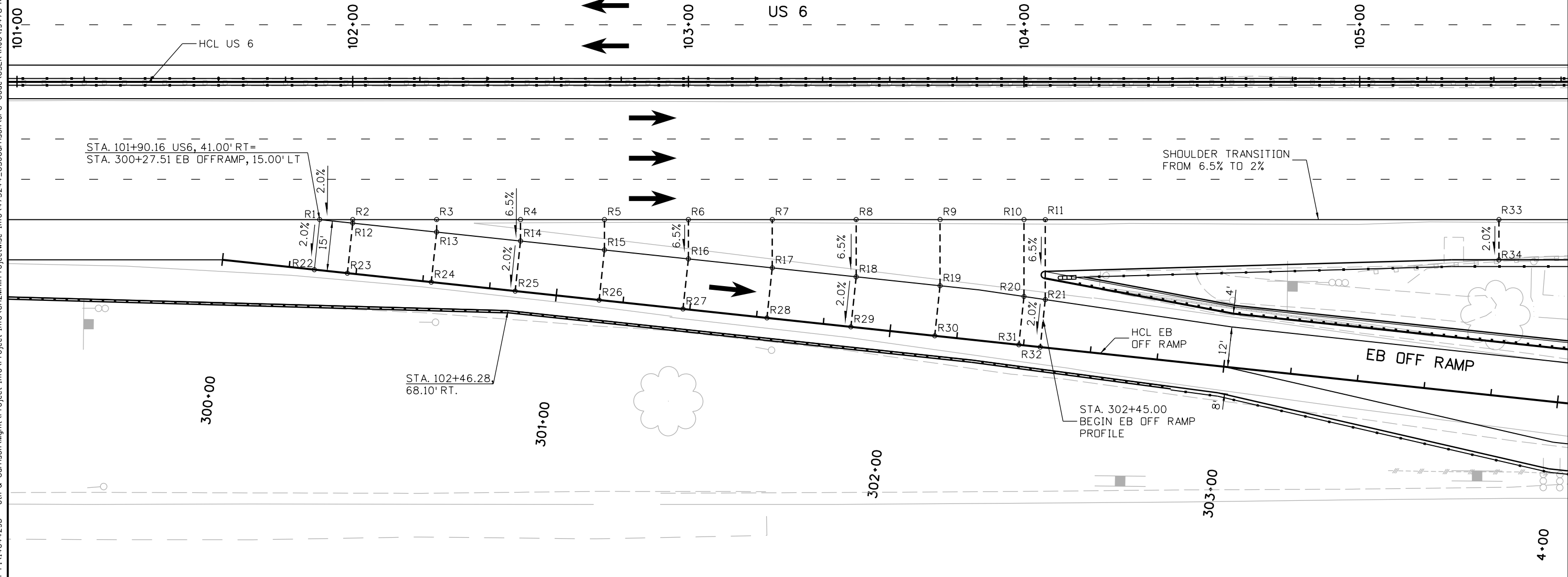
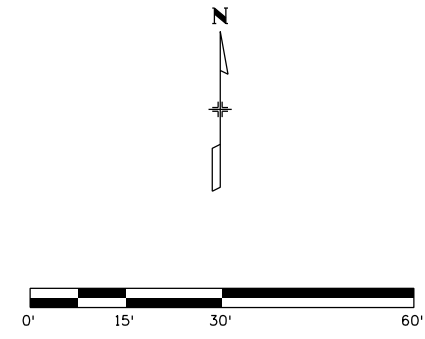
Project No./Code
FBR 0063-046
19478
Sheet Number 33

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



kristi.gempferline 4:28:55 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-ROADGDREPL-01.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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GORE DETAIL EB OFF RAMP			
Designer:	CH	Structure	
Detailer:	CS	Numbers	
Sheet Subset:	ROADWAY	Subset Sheets:	RD6 of 6

Project No./Code	?
	19478
Sheet Number	34

WORK IN PROGRESS

DRAINAGE STRUCTURE INFORMATION TABLE

ID	TYPE	SIZE	STATION	OFFSET	SIDE
101V1					

DRAINAGE SHEET INDEX

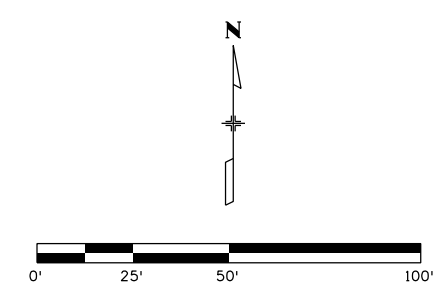
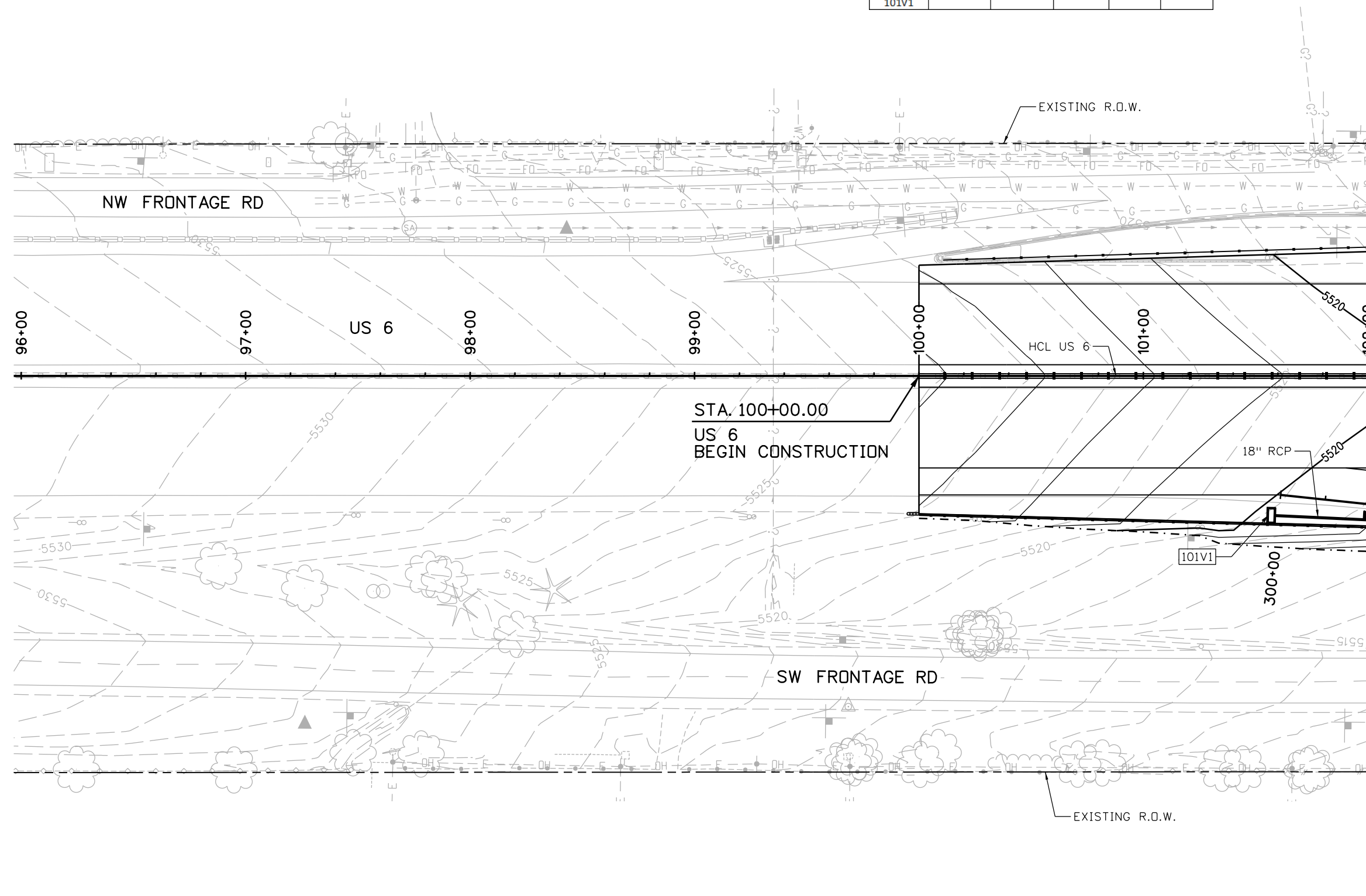
- D1-D5 DRAINAGE PLANS
- D6-D11 DRAINAGE PROFILES
- D12 SOUTHWEST WATER QUALITY POND
- D13 NORTHEAST WATER QUALITY POND

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	0000
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Unit Information Unit Leader	

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

As Constructed
No Revisions:
Revised:
Void:

DRAINAGE PLAN			
US 6			
STA 96+00 TO STA 102+00			
Designer:	GS	Structure	
Detailer:	ADH	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: D1 of 13		

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

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

DRAINAGE STRUCTURE INFORMATION TABLE

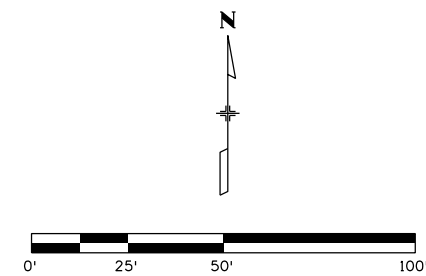
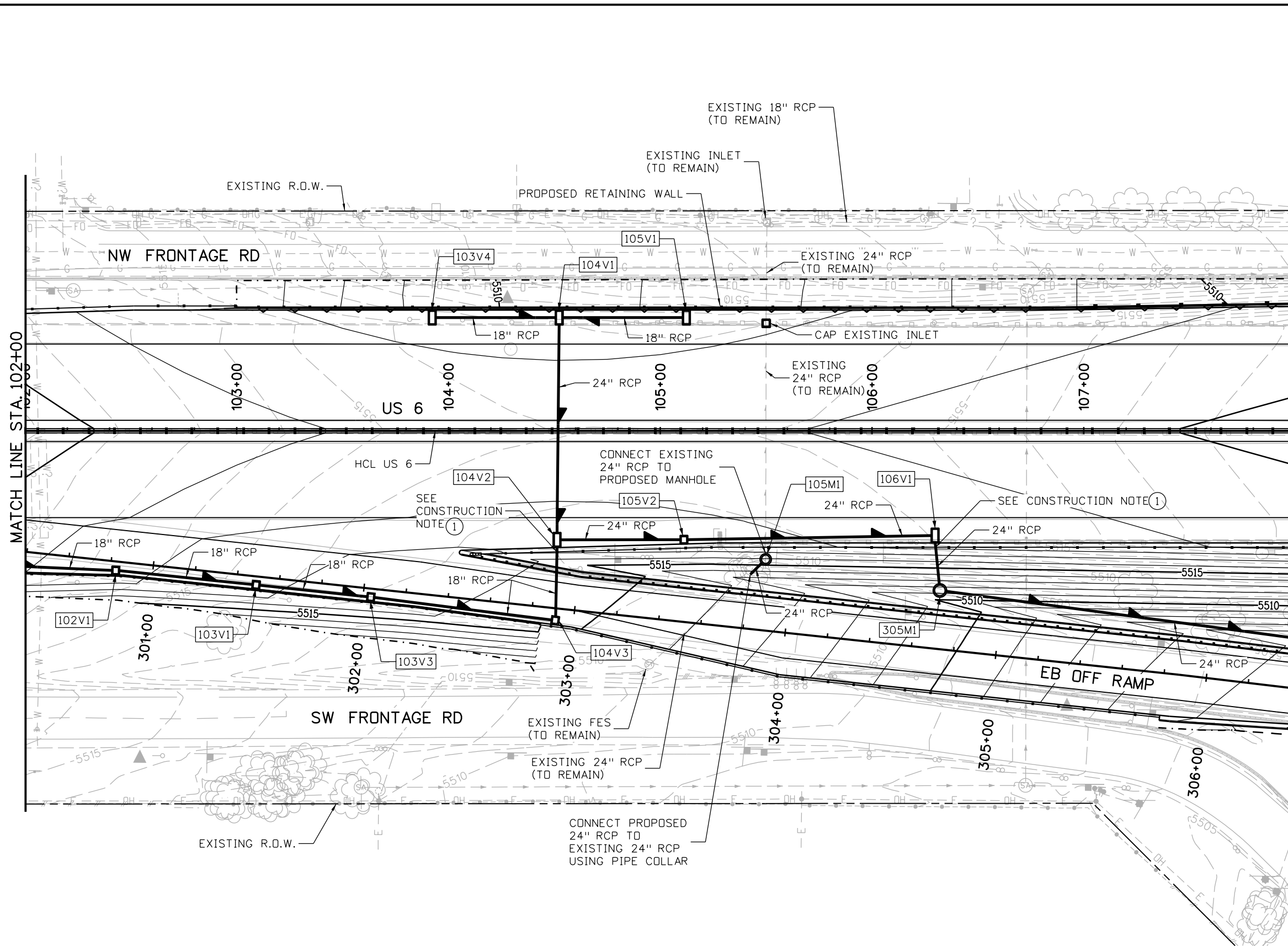
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103V1					
103V3					
103V4					
104V1					
104V2					
104V3					
105V1					
105V2					
105M1					
106V1					
305M1					

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.gempertine 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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Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

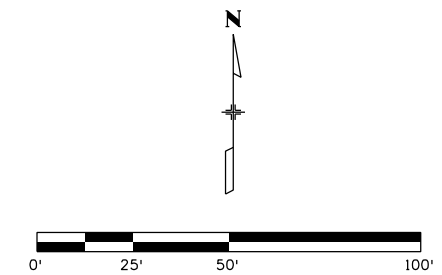
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 **KPB**

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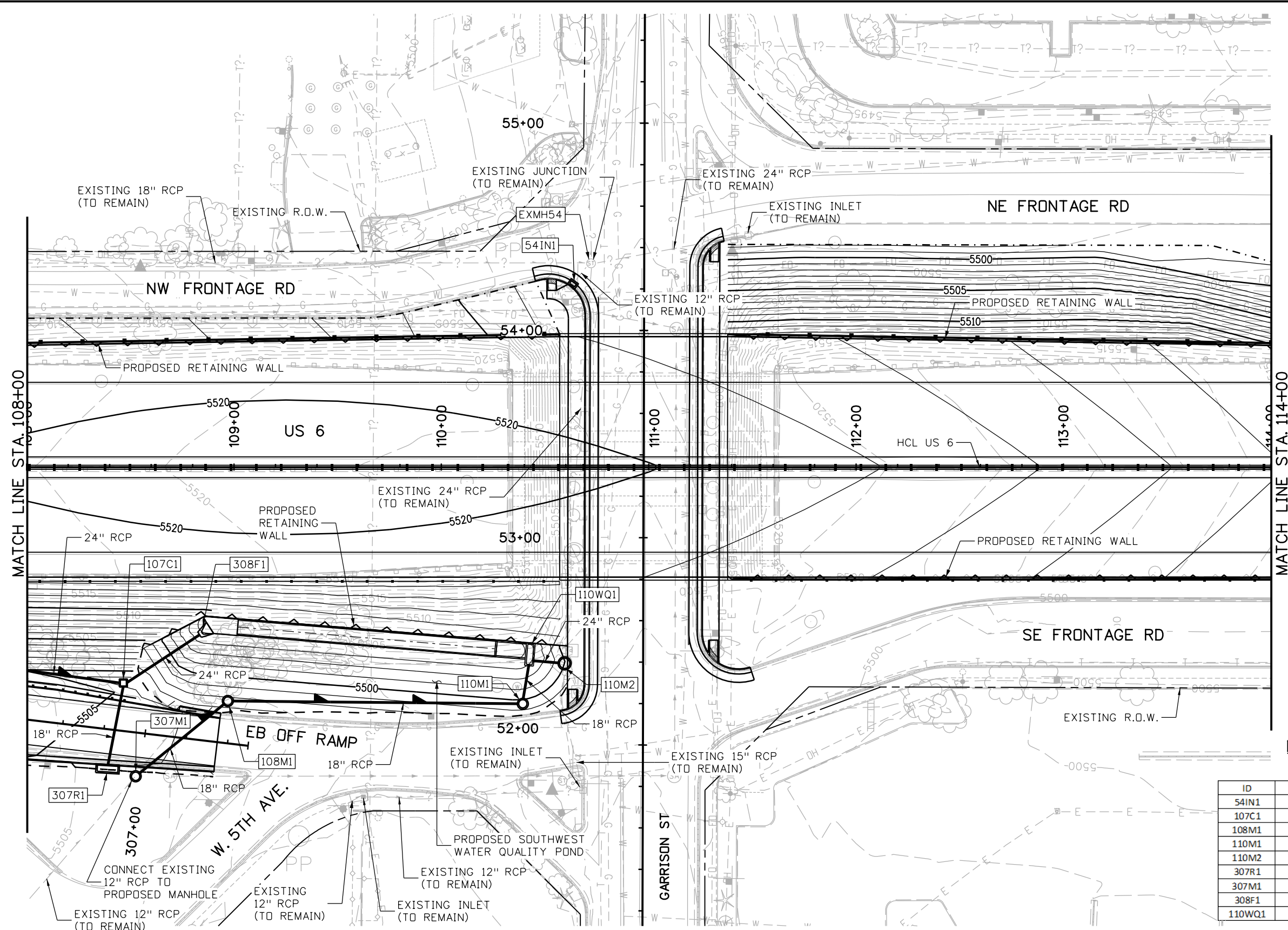
DRAINAGE PLAN	
US 6	
STA 102+00 TO STA 108+00	
Designer: GS	Structure Numbers
Detailer: ADH	
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Project No./Code	FBR 0063-046
	19478
Sheet Number	36

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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

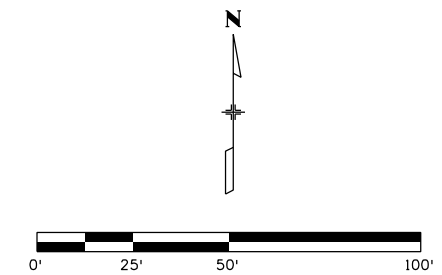
 425 B Corporate Circle
 Golden, CO 80401
 Phone: 720-497-6954 FAX: 720-497-6951
 Region 1 **KPB**

As Constructed
 No Revisions:
 Revised:
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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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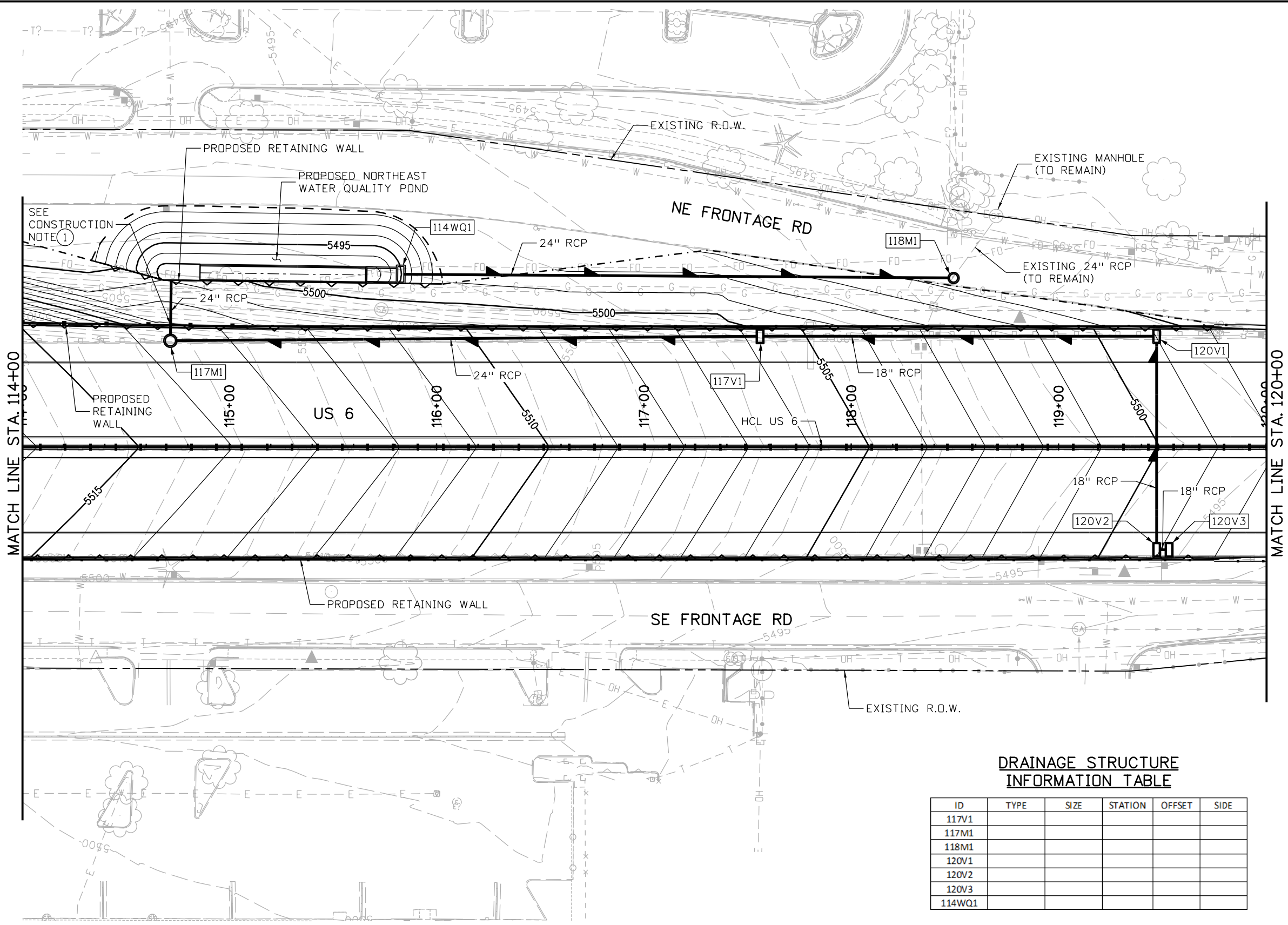


NOTE

- 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					

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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**

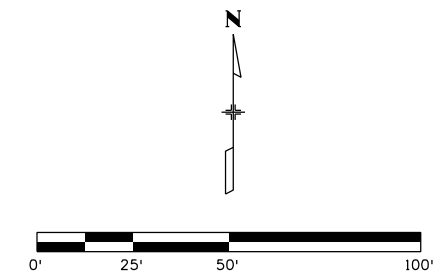
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No Revisions:
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DRAINAGE PLAN
US 6
STA 114+00 TO STA 120+00

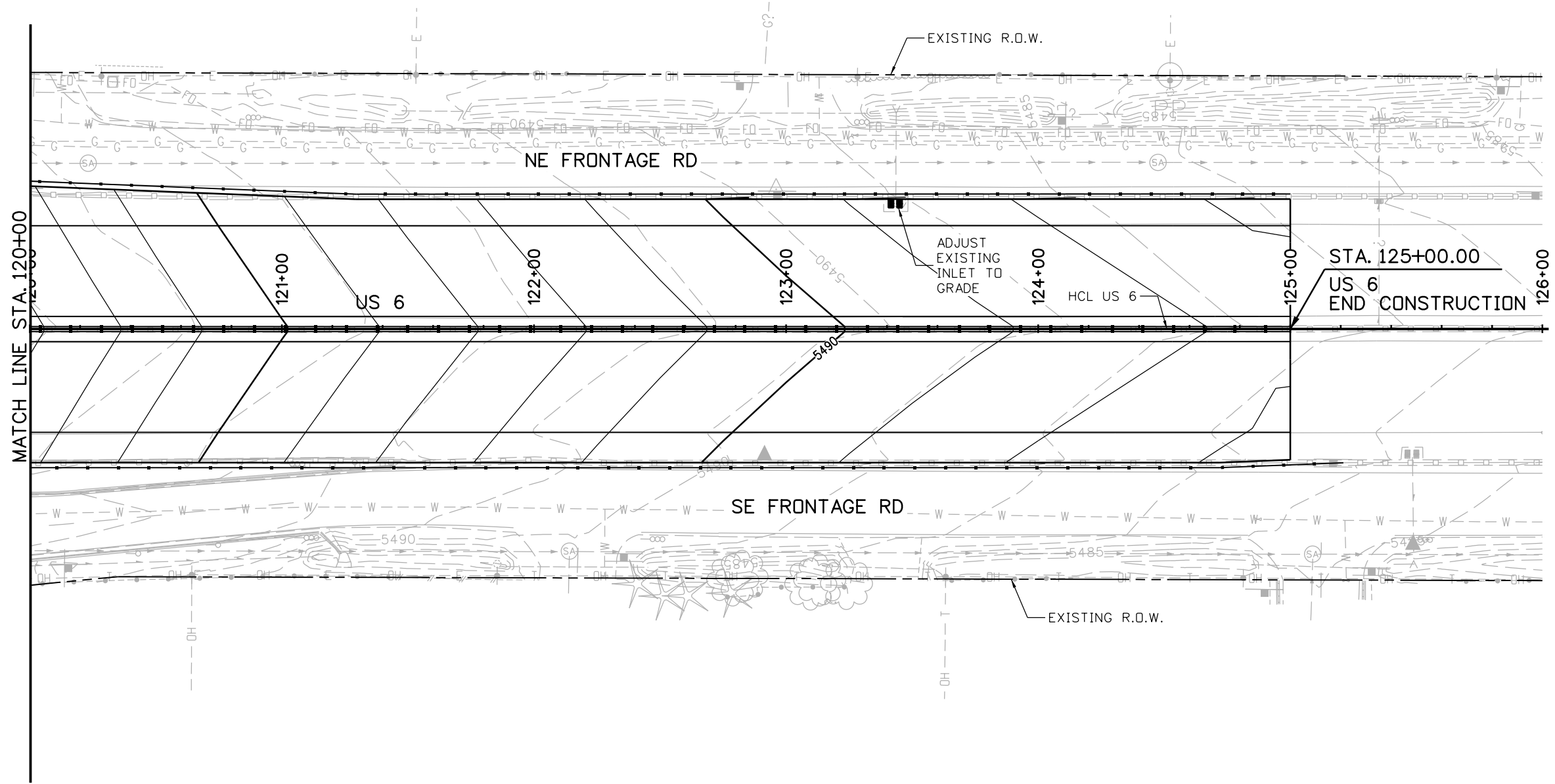
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Detailer:	ADH	Subset Sheets:	D4 of 13

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

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NOTE
 1. SEE SHEET D1 FOR GENERAL NOTES.



kristi.gempertine 4:28:02 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Project Info\473244_US6Garrison\JPC Code\USER\KJG\19478-DRAINPL-05.dgn

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Unit Information Unit Leader	

Sheet Revisions		
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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 KP B

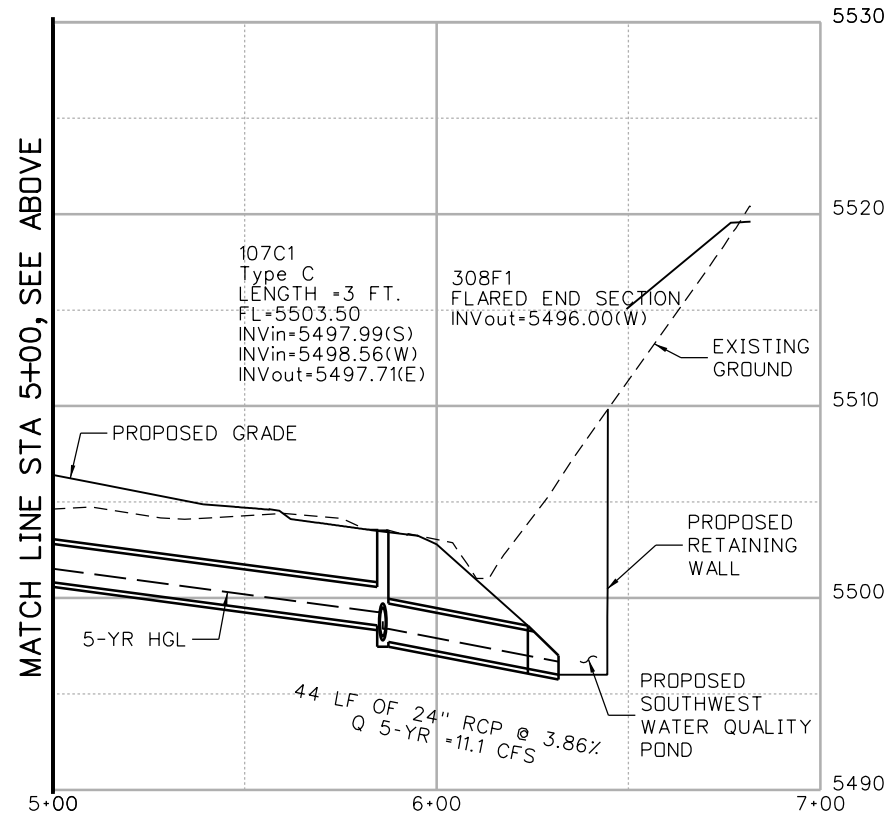
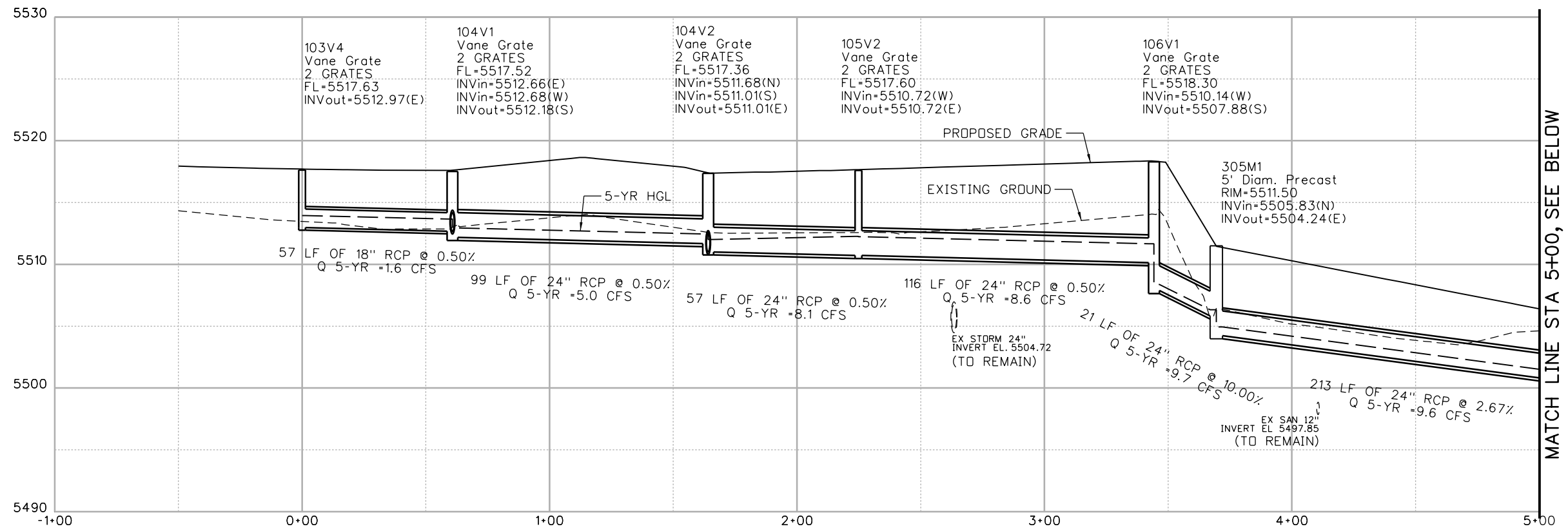
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No Revisions:
Revised:
Void:

DRAINAGE PLAN			
US 6			
STA 120+00 TO STA 126+00			
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WEST TRUNKLINE -
103V4 TO SOUTHWEST WATER QUALITY POND

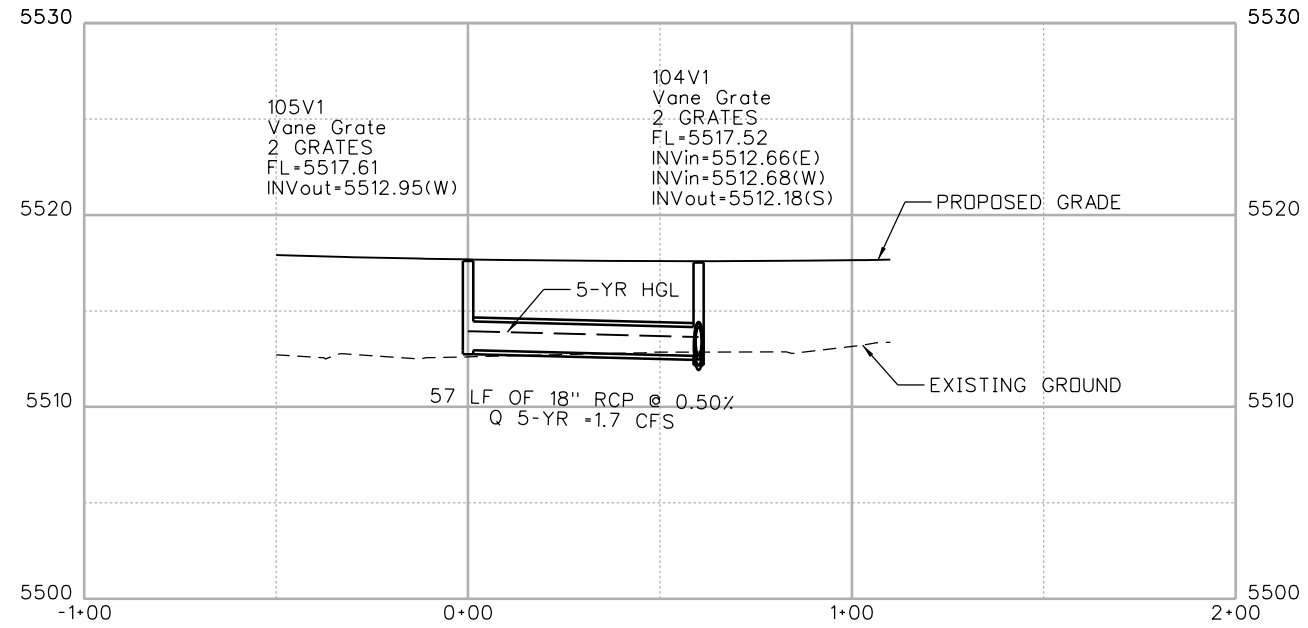
GENERAL NOTES:

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.

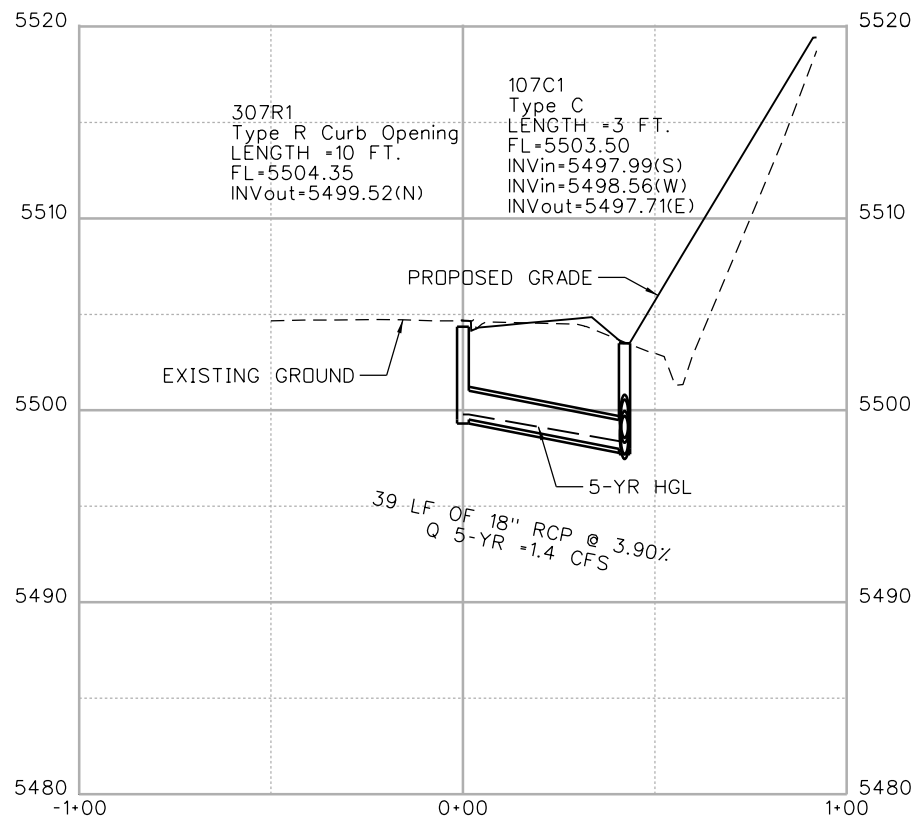
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WEST TRUNKLINE - 105V1 TO 104V1



EB OFF RAMP A - 307R1 TO 107C1

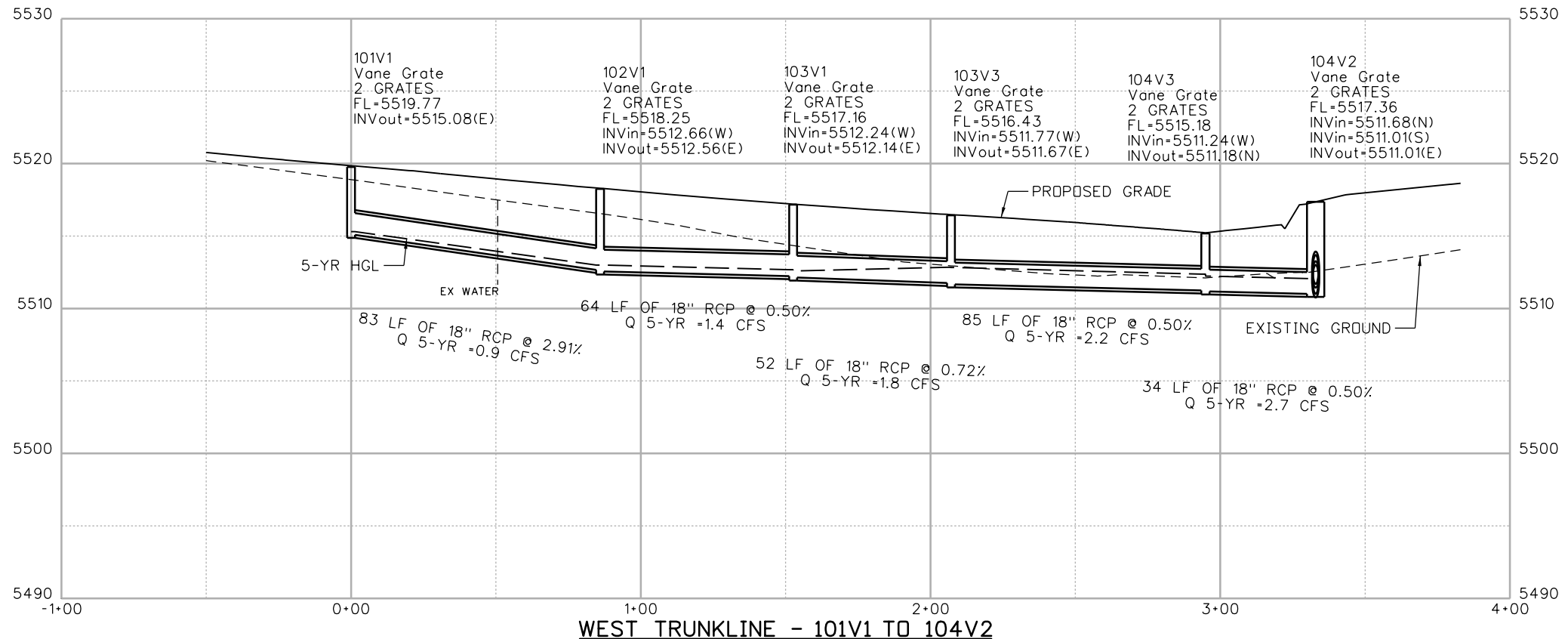
NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.

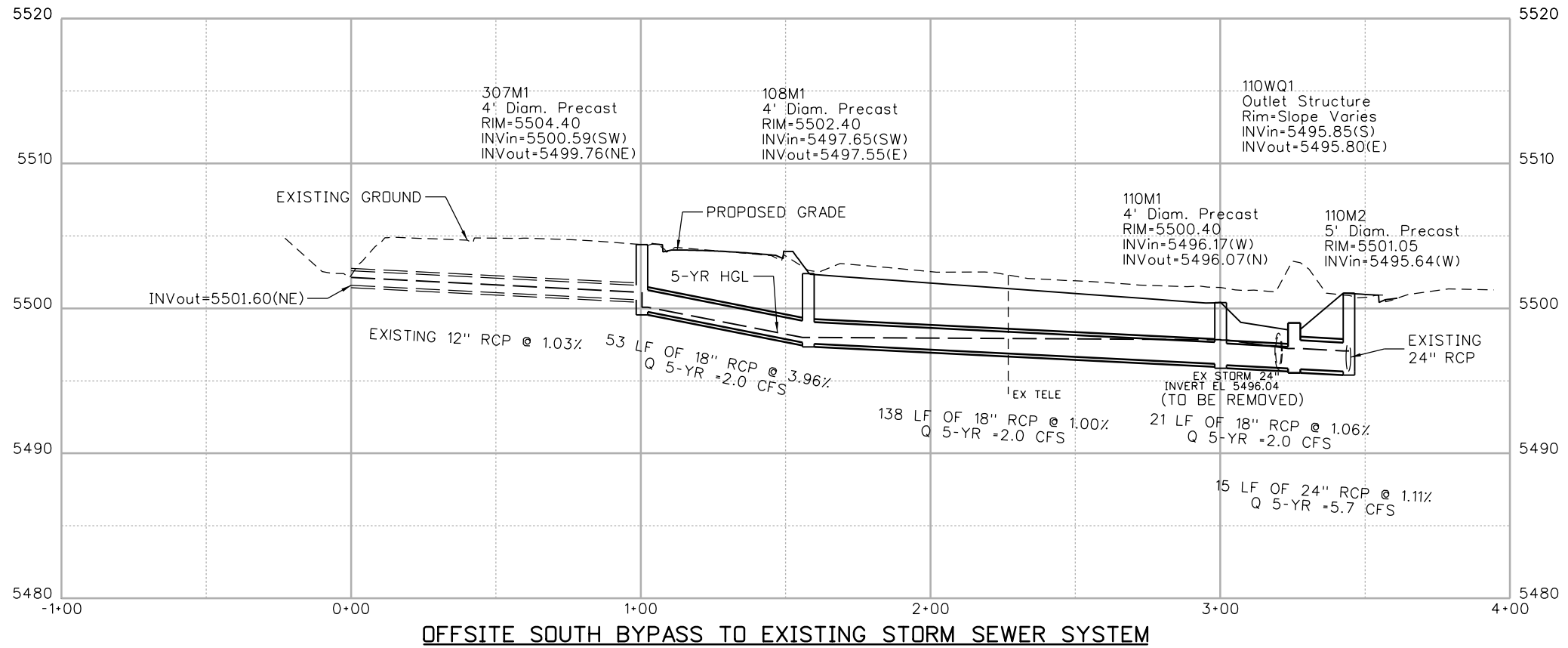
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NOTE
1. SEE SHEET D6 FOR GENERAL NOTES.



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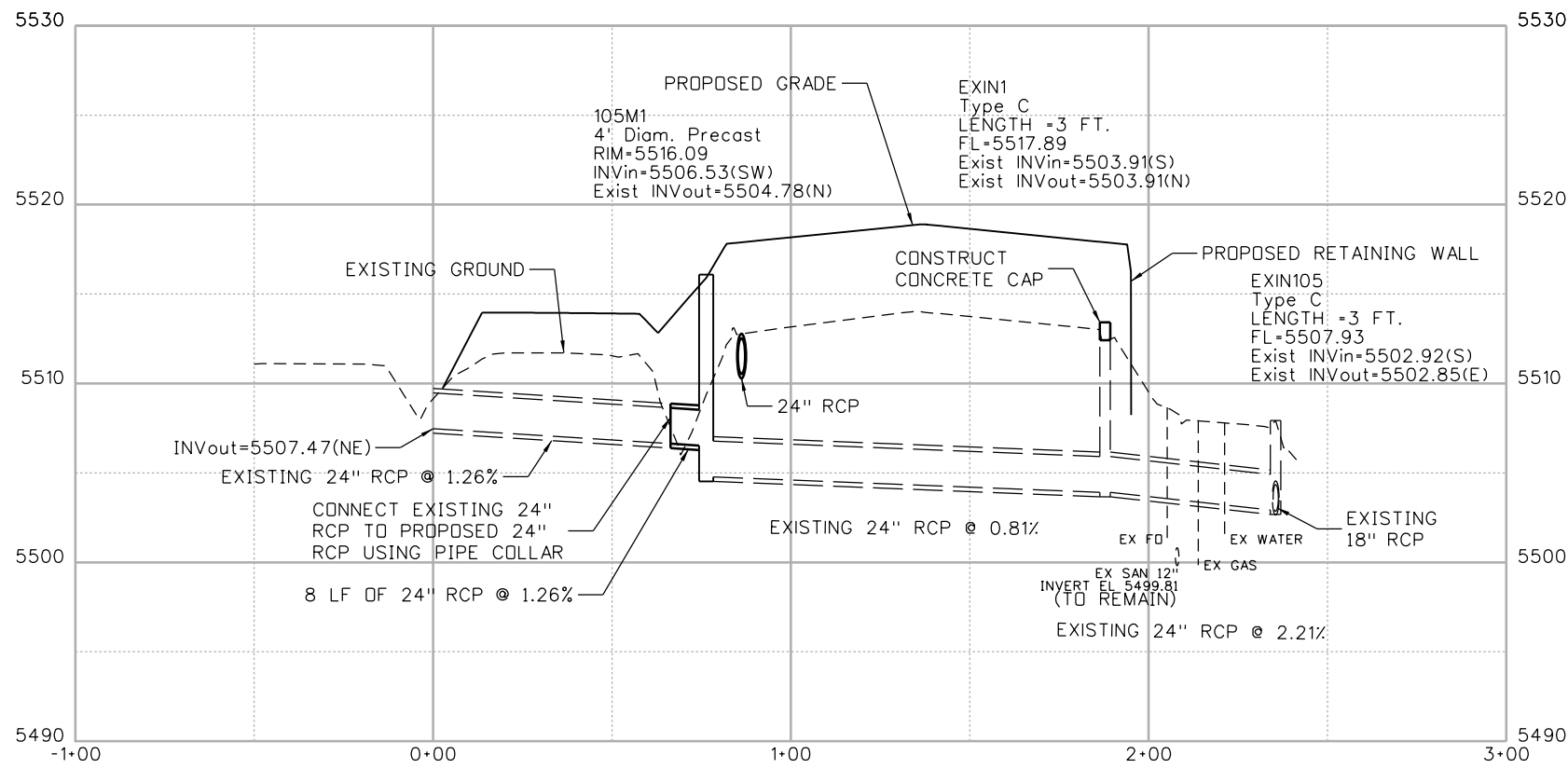
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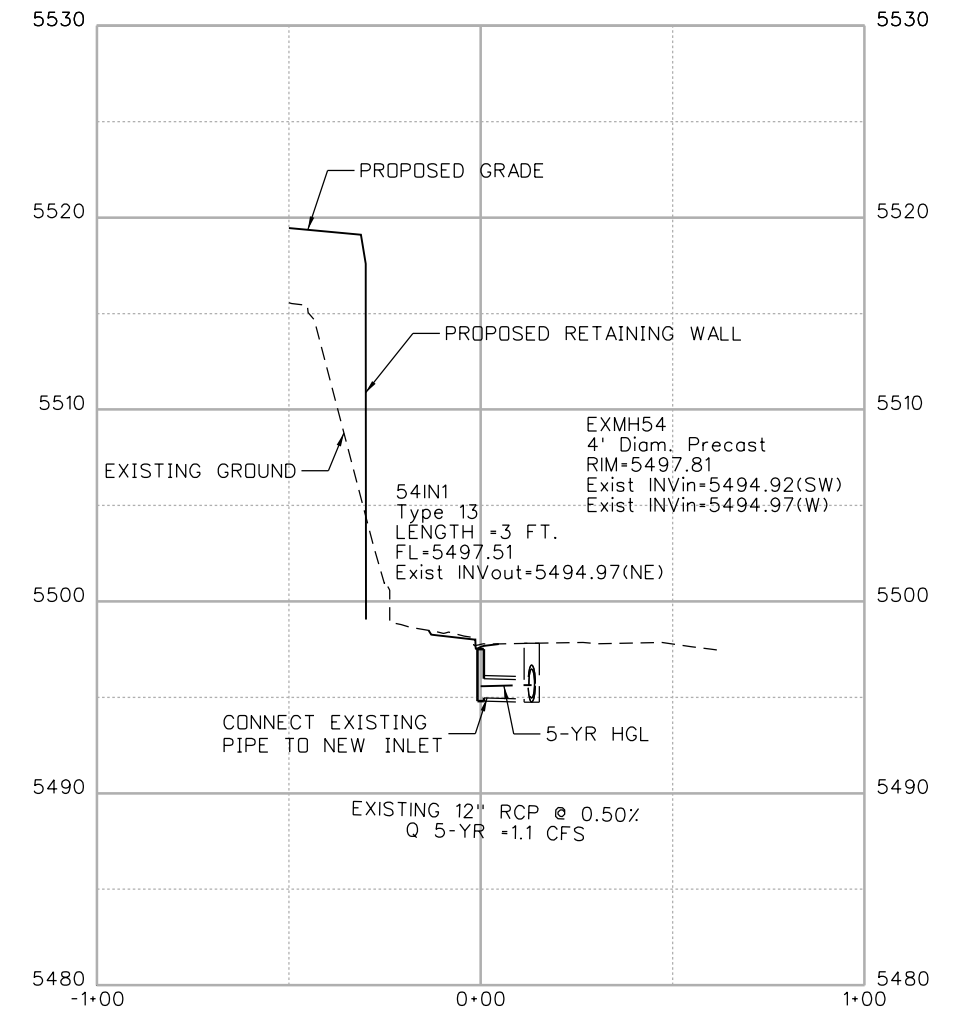
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Sheet Number 42

NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



**EXISTING STORM SEWER SYSTEM THROUGH
105M1**




GARRISON ST - 54IN1 TO EXMH54

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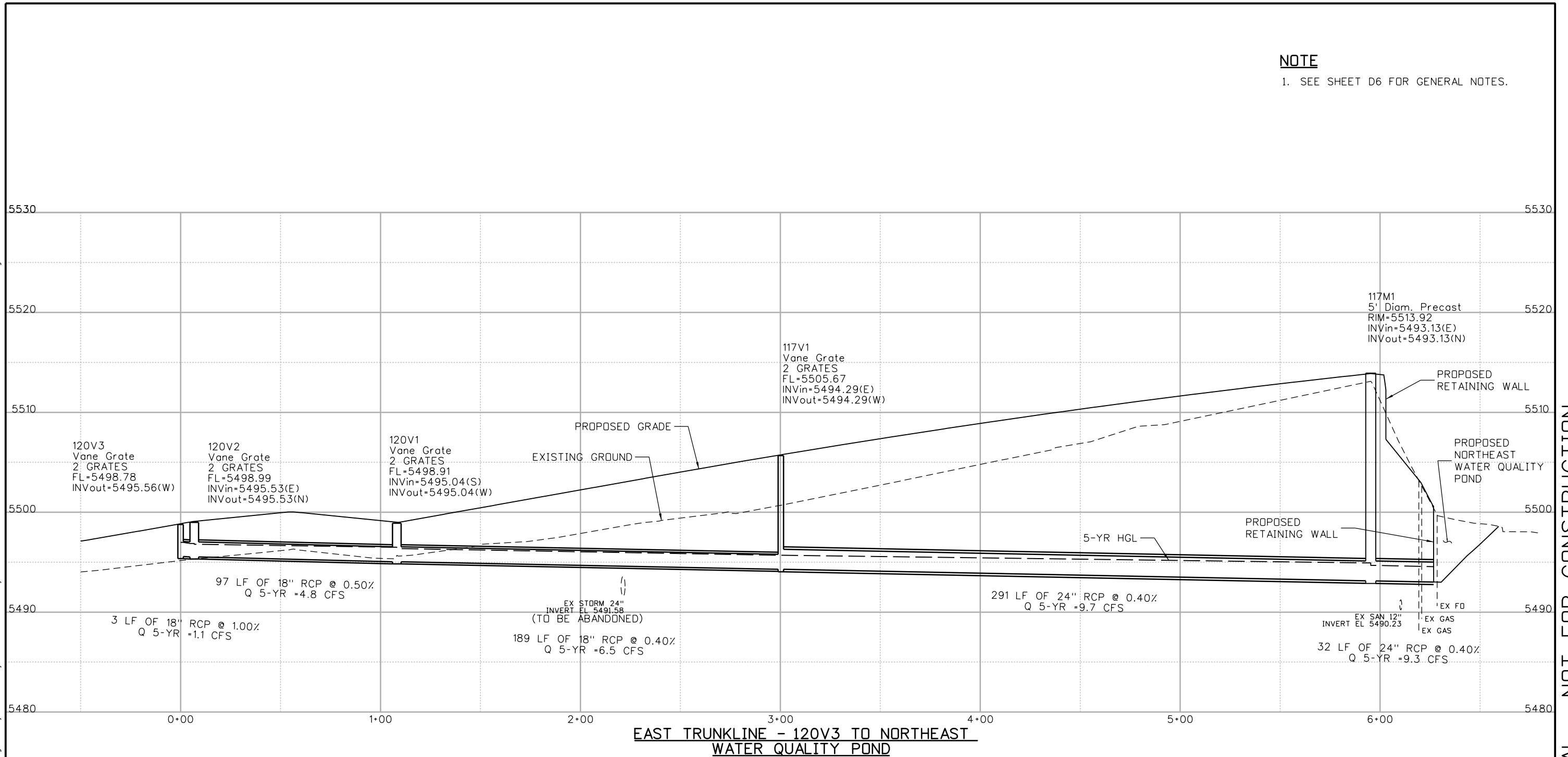
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NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



**EAST TRUNKLINE - 120V3 TO NORTHEAST
WATER QUALITY POND**

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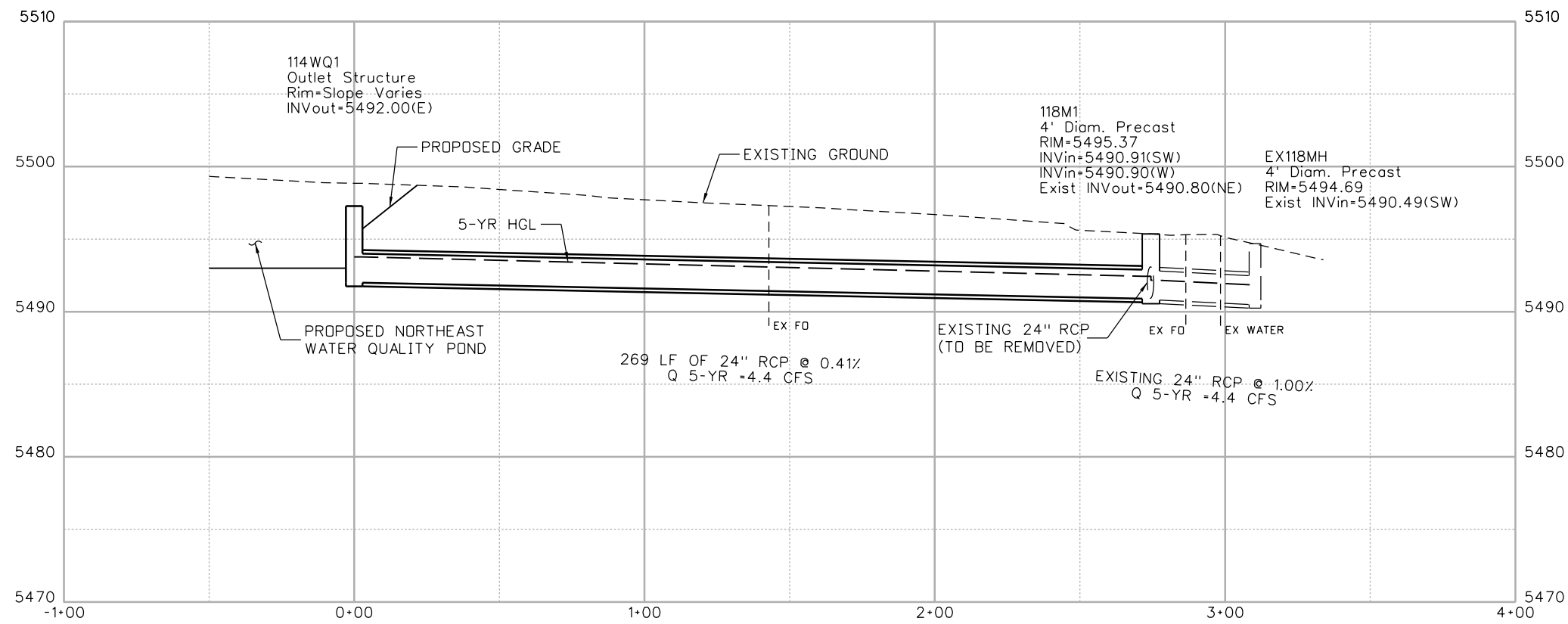
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NOTE

1. SEE SHEET D6 FOR GENERAL NOTES.



114WQ1 TO EXISTING STORM SEWER SYSTEM

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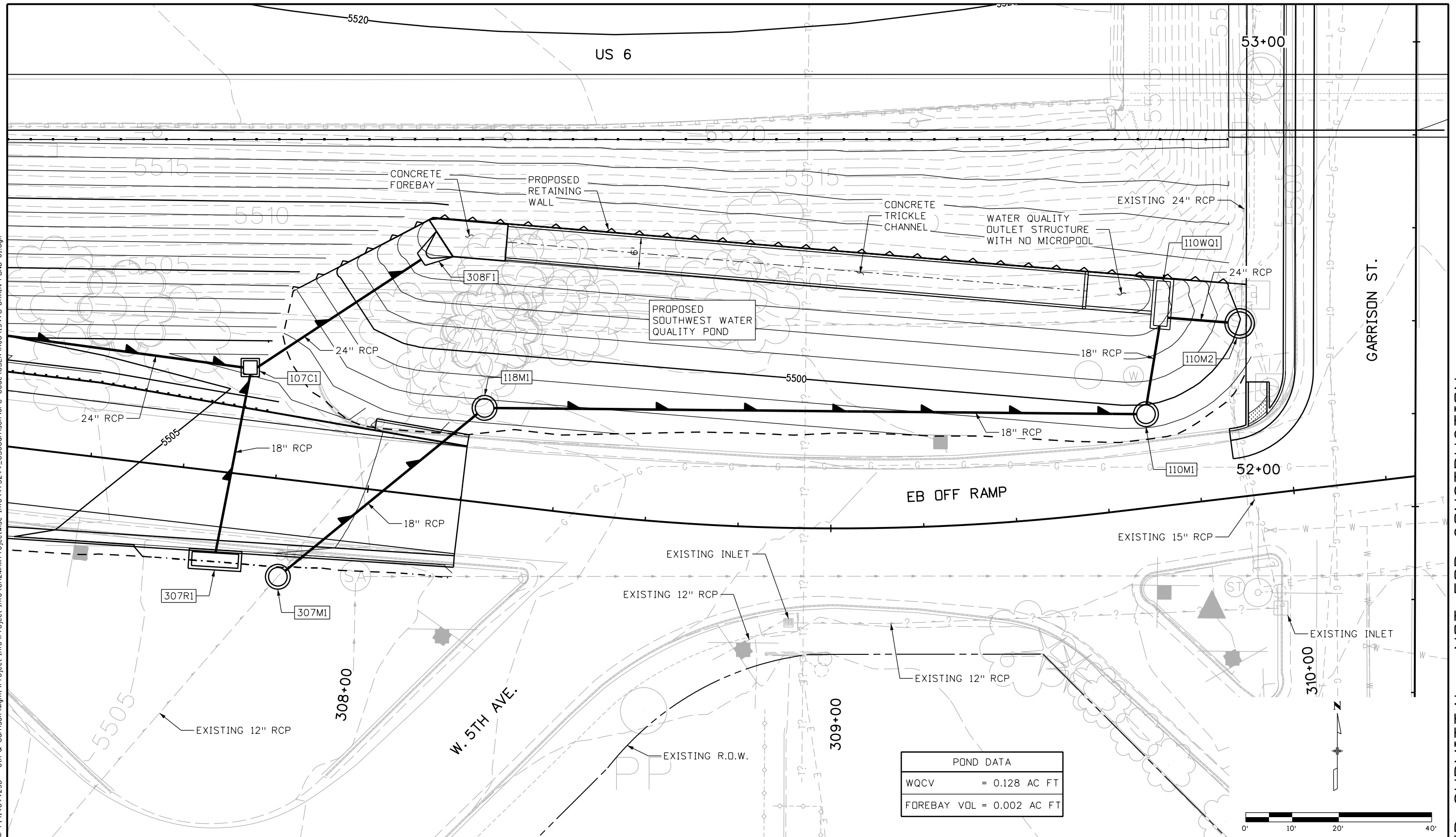
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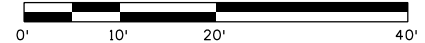
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POND DATA	
WQCV	= 0.128 AC FT
FOREBAY VOL	= 0.002 AC FT



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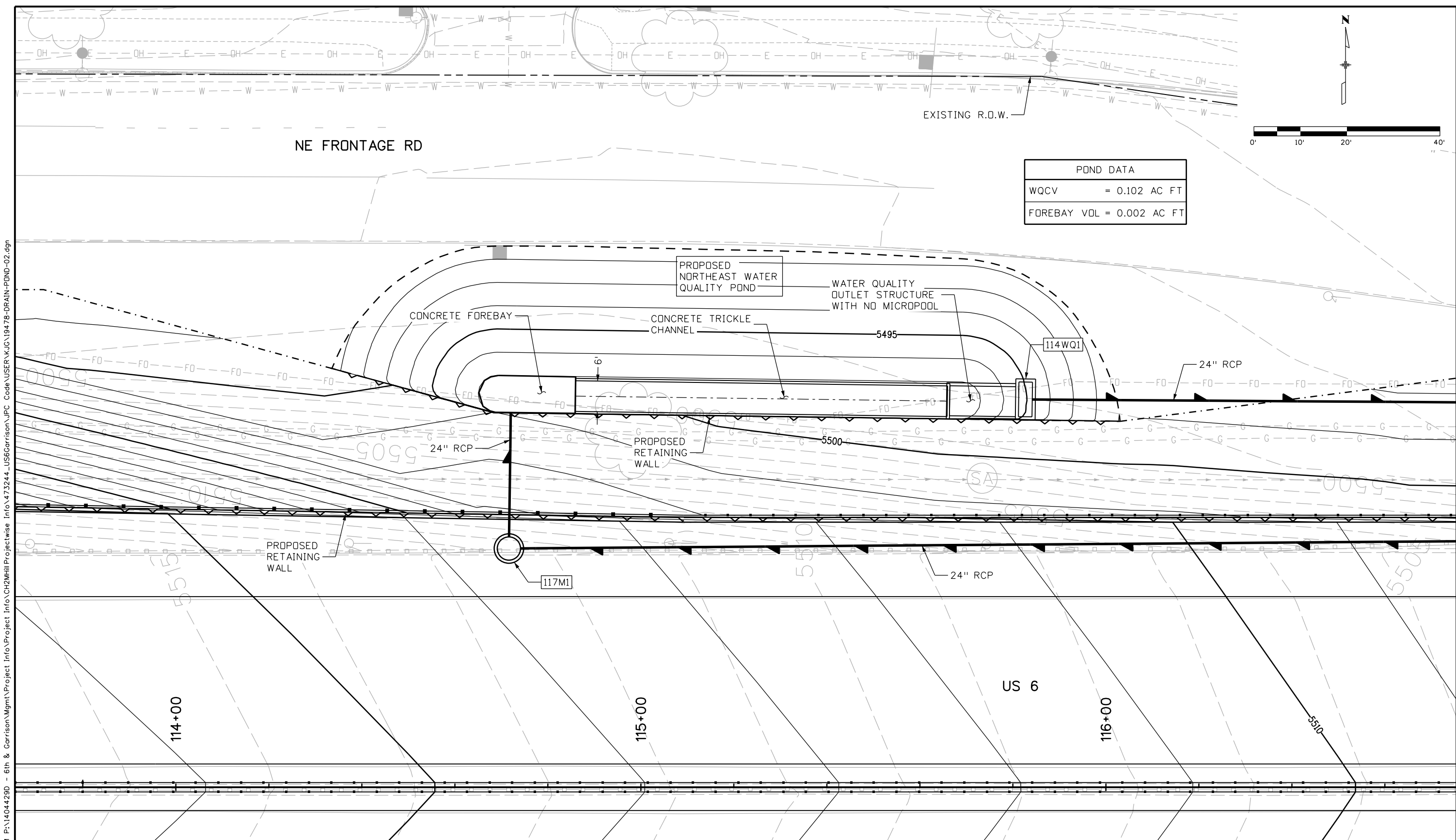
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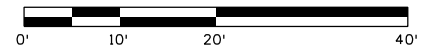
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POND DATA	
WQCV	= 0.102 AC FT
FOREBAY VDL	= 0.002 AC FT



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**SWMP DATA FOR PLANS
US 6 OVER GARRISON STREET**

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:** Work includes demolition and replacement of 6th Avenue bridge over Garrison Street, horizontal and vertical alignment modifications to US 6, widening the bridge and approaches, adding sidewalks under the bridge, grading, drainage system, water quality facilities and landscaping work. Improvements will tie in to local roadways at both side of Garrison Street. Improvements extend approximately from 1000 feet west of Garrison Street to 1400 feet east of Garrison Street. A new storm drain system will be constructed to convey runoff through the improved roadway areas. Two Extended Detention Basin (EDB) water quality ponds will be constructed to treat stormwater runoff prior to tying in to the existing drainage system that flows north. The storm system is designed to avoid existing utilities, where possible, but some utilities will need to be relocated. Excavation will be performed so that all disturbances are within right of ways and easements. The landscaping, roadway, drainage system and water quality system will be maintained by the City of Lakewood.

B. **PROPOSED SEQUENCING FOR MAJOR ACTIVITIES:** The project consists of the replacement of the Garrison Street Bridge at 6th Avenue. A new single span bridge will be constructed in its place, with the inclusion of sidewalks along Garrison on both sides of the road. 6th Avenue will be widened at the bridge location. The first phase of the project will involve the construction of a temporary bridge on the south side of 6th Avenue and the removal of the north half of the existing bridge. The new bridge will be constructed on the north half of 6th Avenue while traffic is routed to the south half and the temporary bridge. Westbound traffic will then be diverted to the new bridge while the remaining section of the eastbound bridge is removed and replaced. Finally, the eastbound traffic will be moved off of the temporary bridge onto the new bridge and the temporary bridge will be removed. Prior to the new bridge construction, a temporary sediment basin will be constructed in the northeast quadrant in the location of the permanent water quality pond. The temporary basin will be converted to the permanent water quality pond at the completion of the bridge construction.

C. **ACRES OF DISTURBANCE:**

1. Total area of construction site: 10.33 acres
2. Total area of disturbance: 10.33 acres
3. Total area of disturbance (outside of the original footprint of roadways) = 2.99 acres
4. Acreage of seeding: 2.05 acres.

Disturbed areas are primarily existing roadways and adjacent grassed areas for the construction of sidewalks and water quality ponds.

D. **EXISTING SOIL DATA:** Soils in the vicinity of the site are classified by the NRCS as Hydrologic Soils Group C. The soils consist of the Denver-Urban land complexes. These soils fall under A-6 of the AASHTO group classification.

E. **EXISTING VEGETATION, INCLUDING PERCENT COVER:** The vegetation on the site is primarily native grasses on the embankments. It is estimated that approximately 15 to 20 % of the site is covered with vegetation. Grasses will be reestablished in all disturbed areas that are not paved.

F. **POTENTIAL POLLUTANTS SOURCES:** See First Construction Activities under Potential Pollutant Sources. The Erosion Control Supervisor (ECS) shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

G. **RECEIVING WATER:**

1. Outfall locations:
Lakewood Gulch – Lakewood Gulch is the project’s primary outfall. Proposed storm drain will route into the existing storm sewer system and then to the Lakewood Gulch via water quality ponds located on the northeast and southwest sides of the project area.
2. Names of receiving water(s) on site and the ultimate receiving water: The names of the receiving waters on site are:
Lakewood Gulch

The ultimate receiving water is the South Platte River via Lakewood Gulch.
3. Distance ultimate receiving water is from project: The South Platte River is approximately 4.5 miles east of the project area.

H. **ALLOWABLE NON-STORMWATER DISCHARGES:**

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.

I. **ENVIRONMENTAL IMPACTS:**

1. Wetland Impacts: NO
2. Stream Impacts: NO
3. Threatened and Endangered Species: NO

2. SITE MAP COMPONENTS:

Pre-construction: See SWMP drawings for items listed below.

- A. **PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES**
- B. **ALL AREAS OF GROUND SURFACE DISTURBANCE**
- C. **AREAS OF CUT AND FILL**
- D. **LOCATION OF ALL STRUCTURAL BMPs IDENTIFIED IN THE SWMP**
- E. **LOCATION OF NON-STRUCTURAL BMPs AS APPLICABLE IN THE SWMP**
- F. **SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER**
- G. **PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION**
- H. **AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc) and BATCH PLANTS**

3. SWMP ADMINISTRATOR FOR DESIGN: Doug Stewart P.E., CH2M HILL, Drainage Engineer

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, APPLICATION AND NARRATIVE:
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:

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BMP	Type of Control	BMP as Designed	In Use On site	First Construction Activities	During Construction	Interim/Final Stabilization
Earth Berm/Stockpile	Sediment				X	
Earth Berm/Toe of Fill	Sediment			X	X	
Earth Berm/Diversion	Erosion					
*Rock Check Dams/Ditch	Sediment	X	X	X	X	X
Silt Fence	Sediment	X	X	X	X	X
Silt Fence/Protection of Vegetation	Construction			X	X	
Erosion Logs, Silt Berms or Silt Dikes/Ditch Checks	Erosion	X	X	X	X	X
Erosion Logs/Existing Inlet	Sediment	X	X	X	X	X
Erosion Logs/Culvert Inlet or Outlet	Sediment	X	X	X	X	X
Erosion Logs	Sediment	X	X	X	X	
Storm Drain Inlet Protection	Sediment	X	X	X	X	X
Permanent Sediment Basin (used as temporary BMP)	Sediment	X	X		X	X
Embankment Protection or Temp Slope Drain	Erosion				X	X
Outlet Protection	Erosion	X	X		X	X
Concrete Washouts	Construction	X	X		X	
Vehicle Tracking Pad	Construction	X	X		X	
Sweeping	Construction				X	
Dewatering	Sediment					
Temporary Stream Crossing	Construction					
Clean Water Diversion	Construction					
Other						

*Check dams may be rock, erosion logs, silt dike, silt berm, etc. as indicated in the narratives and SWMP site map.

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.

STRUCTURAL BMP NARRATIVES:

- Earth Berm/Stockpile – Temporary berm made of soil or coarse aggregate and placed around toe to contain sediment around stockpile.
- Earth Berm/Toe of Fill – Placed prior to earthwork immediately downstream of toe to capture sediment and protect undisturbed areas.
- Earth Berm/Diversion – Placed to intercept and divert runoff to a desired location. Also used to divert runoff from areas where property could be damaged. Used to subdivide runoff volume from less than 10 acre sub basins. Temporary feature to be removed upon final stabilization.
- Rock Check Dams/Ditch – Velocity checks in ditches placed immediately after ditch grading. Placed in the Lakewood Gulch and South Lakewood Gulch channels below the outlet to contain sediments that could potentially be transported in stormwater runoff during construction.
- Silt Fence – Placed on contour to contain construction runoff.
- Silt Fence/Protection of Vegetation – Placed to protect undisturbed area or vegetation.
- Erosion Logs/Existing Inlet – Placed prior to disturbance at existing inlets where disturbance maybe occurring to cause sediment laden water to enter pipe.
- Erosion Logs/Culvert Inlet or Outlet – Placed on culvert to filter or prevent sediment from entering pipe. If disturbance occurs above pipe then erosion logs are placed above pipe. Also placed in the pilot channel of the detention pond to intercept sediments before it reaches the detention basin outlet.
- Erosion Logs – Place to protect undisturbed area and delineate boundary of protected area. Also placed in ditches immediately after ditch grading to reduce flow velocity of runoff in ditch.
- Storm Drain Inlet Protection – Placed to protect storm drain inlets to filter or prevent sediment from entering drainage system.



- Temporary Sediment Trap/Basin - Contain and filter sediment laden water from < 5 acre sub basins within construction disturbance. To be used within the water quality ponds prior to finalizing the forebay, trickle channel, and seeding of the pond. Temporary outfalls may be used prior to completing the proposed outfall structures. Sediment shall be removed periodically as needed.
- Permanent Sediment Trap/Basin – Utilized during construction to act as temporary sediment containment. Outlet structure shall be modified for construction runoff.
- Embankment Protection or Temp Slope Drain – Placed as a conduit or chute to drain runoff down slope and prevent erosion of slope.
- Outlet Protection – Material placed as energy dissipation device to prevent erosion at outlet structure.
- Concrete Washouts – Construction waste management of concrete washout material.
- Vehicle Tracking Pad – Placed to prevent tracking of sediment from disturbance to offsite surface.
- Sweeping – Utilized to remove sediment on pavement surface and to prevent sediment from entering drainage system.
- Dewatering - Sediment control to remove or filter sediment from construction dewatering. These are practices to remove excess water from construction sites. These practices manage the discharge of groundwater and precipitation to prevent potential pollutants from entering storm drains and other watercourses.
- Temporary Stream Crossing – Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into stream.
- Clean Water Diversion – Placed to divert clean surface or ground water from mixing with construction runoff or activity.

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

BMP	Type of Control	BMP as Designed	In Use On Site	First Construction Activities	During Construction	Interim/Final Stabilization
Surface Roughening/Grading Techniques	erosion	X	X		X	X
Seeding Permanent	erosion	X	X			X
Seeding Temporary	erosion					
Mulch/Mulch Tackifier	erosion	X	X		X	X
Soil Retention Blanket	erosion	X	X		X	X
Turf Reinforcement Mat	erosion					
Soil Binder	erosion	X	X		X	X
Spray on Mulch Blanket	erosion					
Vegetative Buffer Strips	erosion					
Protection of Trees/Protected Resources-Fence Plastic	erosion	X	X	X	X	
Preservation of Mature Vegetation/Work Access and Grading Plans	erosion	X	X	X	X	X

NON-STRUCTURAL BMP NARRATIVES:

- Surface Roughening – Roughen, terrace, or disc rows that are parallel to contours to temporarily stabilize disturbed slopes and protect them from wind and water erosion. Must be used in conjunction with seeding, and mulching or soil binders.
- Seeding Permanent – Reduce runoff and control erosion on disturbed areas.
- Seeding Temporary – Over wintering of disturbance or used to control areas scheduled for future construction. Used as a temporary vegetative cover if a disturbed area will be left in place for 3 months or more.
- Mulch/Mulch Tackifier – Placed as a surface cover for erosion control and/or seeding establishment.
- Soil Retention Blanket – Placed as surface cover for erosion control and seeding establishment.
- Turf Reinforcement Mat – Placed in channels or on slopes for erosion control, channel liner and seeding establishment. Composed of UV stabilized, non-degradable synthetic materials.
- Soil Binder – Temporary measure placed on surface for erosion control and seed establishment. Used in addition to blankets/mats/seeding on slopes steeper than 3:1. Application by spraying only if wind conditions permit.

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- Spray-on Mulch Blanket – Soil retention blanket that consists of fibers in liquid slurry, applied by spraying. Placed cover on slopes to control erosion and seeding establishment.
- Vegetative Buffer Strips – Vegetated area used to filter stormwater sheet flow.
- Protection of Trees/Protected Resources-Fence Plastic – Placed prior to construction to protect existing vegetation that is to remain.
- Preservation of Mature Vegetation – Used to protect existing stable cover and minimize impact to vegetation.

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)

1. 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

1. BMPs shall be implemented in accordance with subsection 208.04.

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. During construction, BMPs shall be added, updated, or amended as needed by the SWMP Administrator/Erosion Control Supervisor (ECS) in accordance with Section 208.

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 what section the discussion takes place.

On a monthly basis, the Erosion Control Supervisor shall submit a color copy of the current SWMP to the Engineer for information only. This document shall be submitted electronically as well as on 11 x 17 paper and shall consist of the current SWMP with the most recent changes noted. Payment of the estimate may be withheld until such time as this document is submitted

- A. **STOCKPILE MANAGEMENT** - shall be done in accordance with subsection 107.25 and 208.07.
- B. **CONCRETE WASHOUT** - Concrete wash out water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05. Locations different from those shown on the plans shall be approved by the Engineer.
- C. **SAW CUTTING** - shall be done in accordance with subsection 107.25, 208.04, 208.05.
- D. **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:** Soil preparation, soil conditioning or topsoil, seeding (native), mulching (weed free) and mulch tackifier will be required for an estimated 2.05 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	PERCENTAGE OF MIX
Ephraim Crested Wheatgrass	Agropyron desertorum 'Ephraim'	7.5	29.3
Sheep Fescue	Festuca ovina	6.25	24.4
Perennial Rye	Lolium perenne	3.75	14.7
Chewings Fescue	Festuca rubra	3.75	14.7
Kentucky Bluegrass	Poa pratensis	2.5	9.8
Rocky Mountain Wildflower Mix			
Cornflower	Centaurea cyanus	0.125	10
African Daisy	Dimorphotheca aurantiaca	0.125	10
Black-eyed Susan	Rudbeckia hirta	0.125	10
Baby's Breath	Gypsophila	0.125	10
Blue Flax	Linum lewisii	0.0625	5
Sweet Alyssum	Lobularia maritime	0.0625	5
California Poppy	Eschscholzia californica	0.0625	5
Siberian Wallflower	Cheiranthus allionii	0.0625	5
Prairie Coneflower	Ratibida columnifera	0.0625	5
Plains Coneflower	Coreopsis tinctoria	0.0625	5
Garland Daisy	Chrysanthemum coronarium	0.05	4
Perennial Blanket Flower	Gaillardia	0.05	4
Annual Blanket Flower	Gaillardia	0.0375	3
Evening Primrose	Oenothera speciosa	0.0375	3
Pink Sweet William	Dianthus d. barbatus	0.0375	3
Shasta Daisy	Chrysanthemum maximum (Asteraceae)	0.0375	3
Corn Poppy	Papaver rhoeas	0.025	2
Catchfly	Silene armeria	0.025	2
Rocky Mountain Penstemon	Penstemon palmeri	0.025	2
Spurred Snapdragon	Linaria maroccana	0.025	2
Purple Coneflower	Echinacea purpurea	0.025	2
		1.25	7.1
TOTAL		25.0	100

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 ½ tons of certified weed free native hay per acre and in accordance with Section 213, and mechanically crimp it into the soil in combination with an organic mulch tackifier.

D. **SPECIAL REQUIREMENTS:** Due to high failure rates, hydromulching and/or hydroseeding will not be allowed.


E. SOIL CONDITIONING AND FERTILIZER REQUIREMENTS:

Soil conditioner paid for as Item 212-00032 Soil Conditioning (Acre)		
Biological nutrient organic based fertilizer (lbs/acre)*	Humate (lbs/acre)	Compost (cys/acre) (1 inch depth)
600	200	130

*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.

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.

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G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION

Prior to final acceptance.

1. 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.
2. 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.
3. 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

A. Final Acceptance shall be in accordance with subsection 208.10.

B. Native seed areas shall have 80% coverage, 90% grass species and no noxious weeds prior to final project acceptance. Any native seed areas having poor germination (less than 90% coverage) shall be re-seeded until establishment is reached. No bare spots greater than 6"x6" shall be accepted.

C. All Erosion Bales (weed free) shall be removed and replaced with erosion logs prior to final acceptance. This replacement shall be included in the cost of the Erosion Bales (weed free).

11. TABULATION OF STORMWATER QUANTITIES

Pay Item	Description	Pay Unit	*Quantity
207-00205	Topsoil	CY	1654
207-00210	Stockpile Topsoil	CY	1654
208-00003	Erosion Log (18 Inch)	LF	4843
208-00020	Silt Fence	LF	1495
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 I)	LF	360
208-00070	Vehicle Tracking Pad	Each	7
208-00103	Removal and Disposal of Sediment (Labor)	Hour	40
208-00105	Removal and Disposal of Sediment (Equipment)	Hour	40
208-00106	Sweeping (Sediment Removal)	Hour	250
208-00206	Erosion Control Supervisor	Day	384
212-00006	Seeding (Native)	Acre	2.05
212-00032	Soil Conditioning	Acre	2.05
213-00003	Mulching (Weed Free)	Acre	1.36
213-00061	Mulch Tackifier	LB	272
216-00101	Soil Retention Blanket (Straw-Coconut) (Photodegradable Class 1)	SY	3340

*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, but have not been increased for unforeseen Project conditions.

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. Maintenance of seeded areas shall be included in the price of the work.






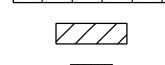











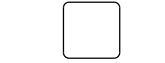

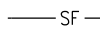



12. MISCELLANEOUS NOTES

A. All staging areas shall be stabilized. Stabilization shall be with rock, millings or equivalent to reduce or eliminate tracking out of the staging area. Cost of rock, millings or equivalent shall be included in the cost of the work.


B. All storm drain pipe and inlets shall be cleaned prior to the post BMP pre-construction walk through.

C. There shall be no stockpiling or side casting of waste materials including but not limited to paint chips, asphalt, or concrete adjacent to any drainages (including dry drainages). Paint material removed in the course of restriping shall be properly contained and disposed of to prevent such materials from entering waters of the state.

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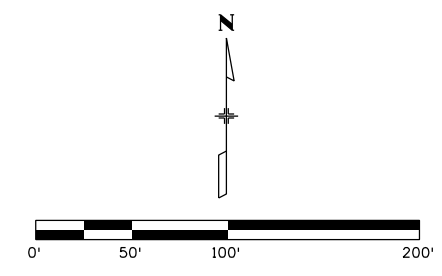
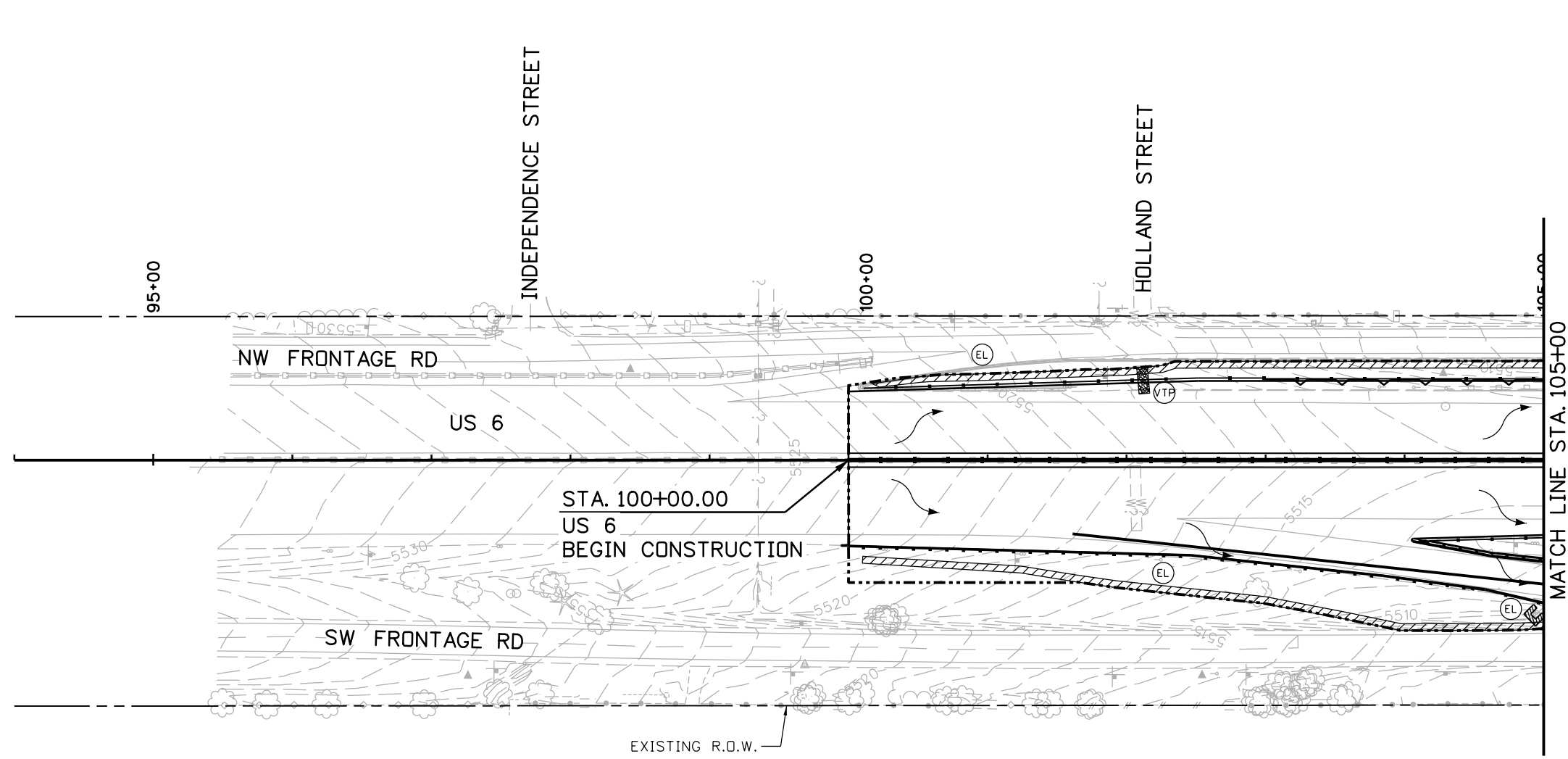
-   SOIL RETENTION BLANKET/SEEDING (NATIVE)
-   SEEDING (NATIVE)/MULCHING (WEED FREE)/MULCH TACKIFIER
-   EROSION LOG
-   AGGREGATE BAG FILTER AT DROP INLET
-   AGGREGATE BAG CURB CHECK
-   ROCK CHECK DAM
-   STORM DRAIN INLET PROTECTION (TYPE I)
-   VEHICLE TRACKING PAD
-   CONCRETE WASHOUT
-  FLOW DIRECTION
-  SILT FENCE
-  TOP OF CUT
-  TOE OF FILL
-  LIMITS OF DISTURBANCE

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NOTE:
1. PROTECT EXISTING INLETS.

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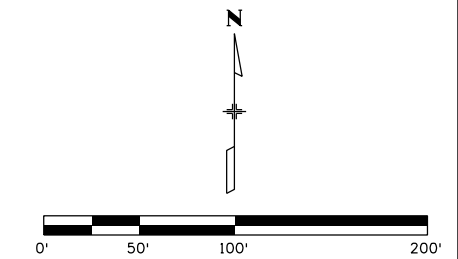
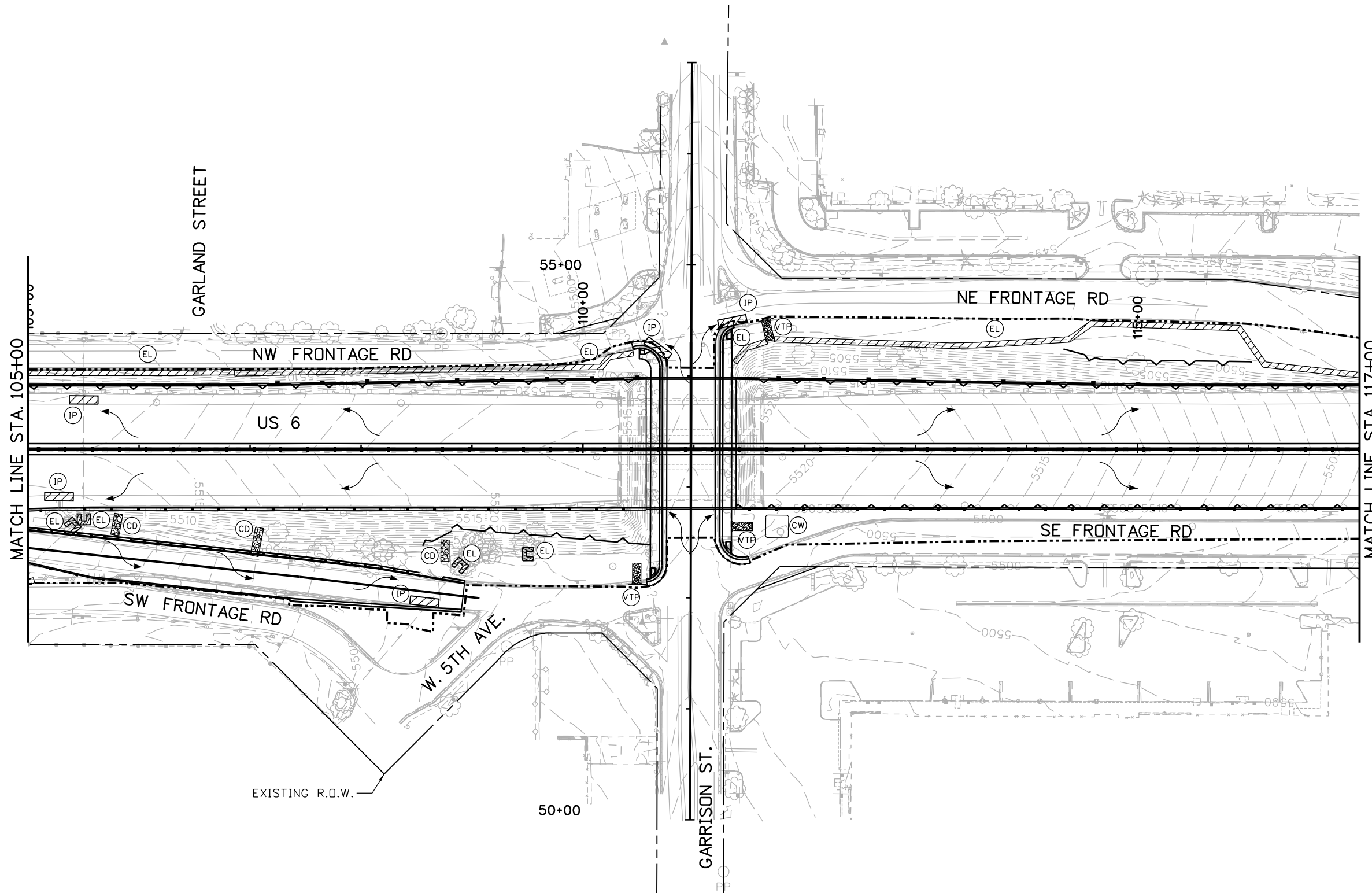
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NOTE:
1. SEE SHEET E5 OF 13 FOR NOTES.

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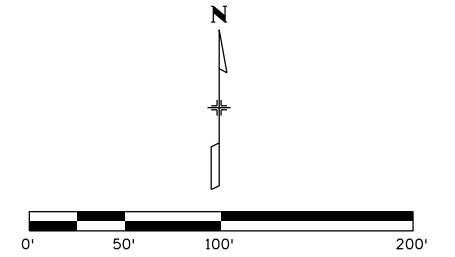
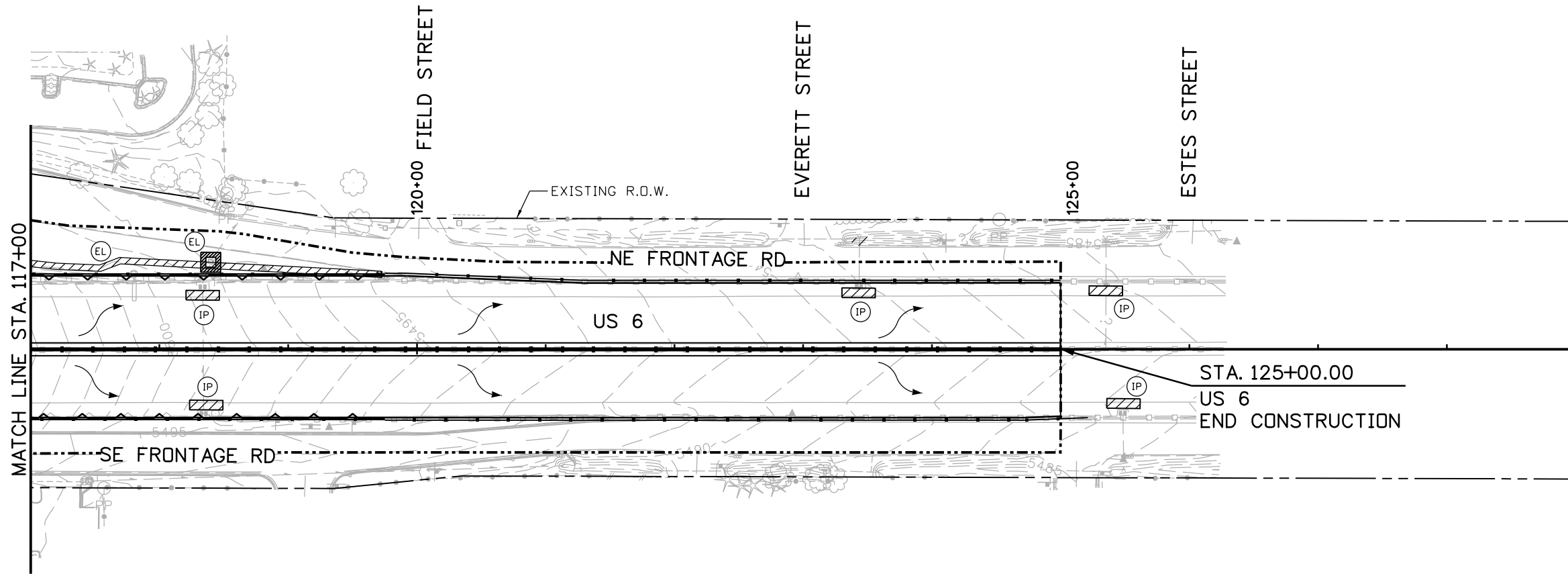
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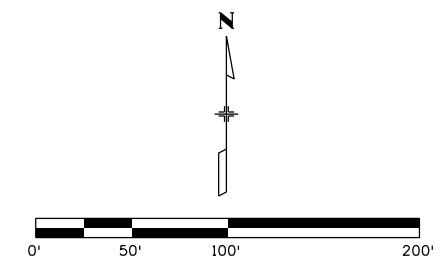
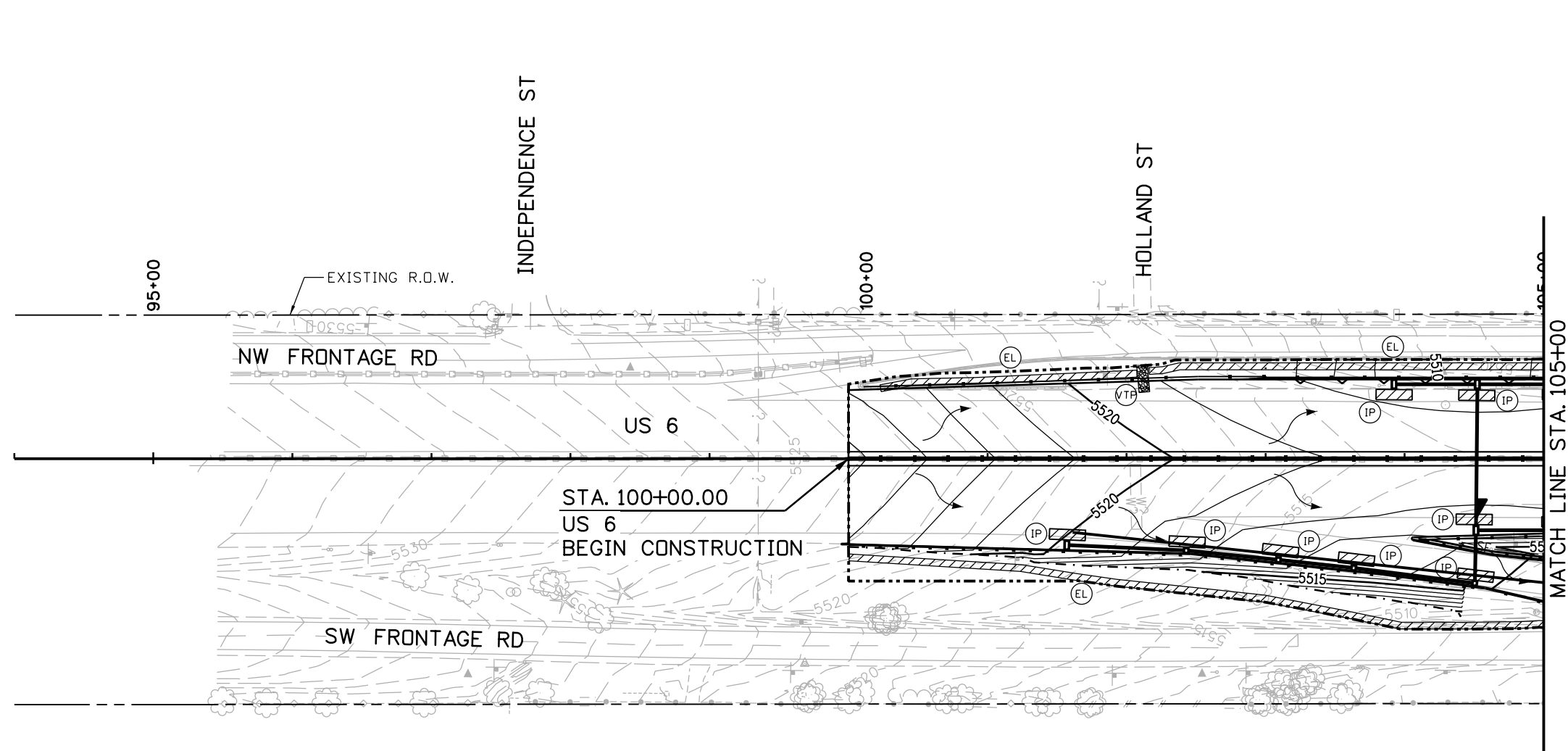
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NOTES:

1. MAINTAIN OR ADJUST EROSION/SEDIMENT CONTROL FEATURES INSTALLED IN INITIAL PLAN AS NEEDED.
2. CONTRACTOR'S EROSION CONTROL SUPERVISOR (ECS) SHALL VERIFY THE VEHICLE TRACKING PAD (VTP) LOCATIONS WITH APPROVAL BY THE ENGINEER.
3. PROTECT EXISTING INLETS UNTIL TAKEN OFF-LINE. PROTECT NEW INLETS PRIOR TO BEING PLACED ON-LINE.
4. CONCRETE WASHOUT STRUCTURES SHALL BE PLACED IN LOCATIONS WHERE CONCRETE WORK WILL BE DONE. LOCATION SHALL BE AS APPROVED BY THE ENGINEER.
5. REPLACE, MOVE OR ADD BMPS THROUGHOUT CONSTRUCTION AS NEEDED AND AS APPROVED BY THE ENGINEER.

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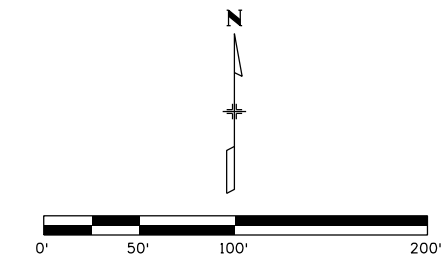
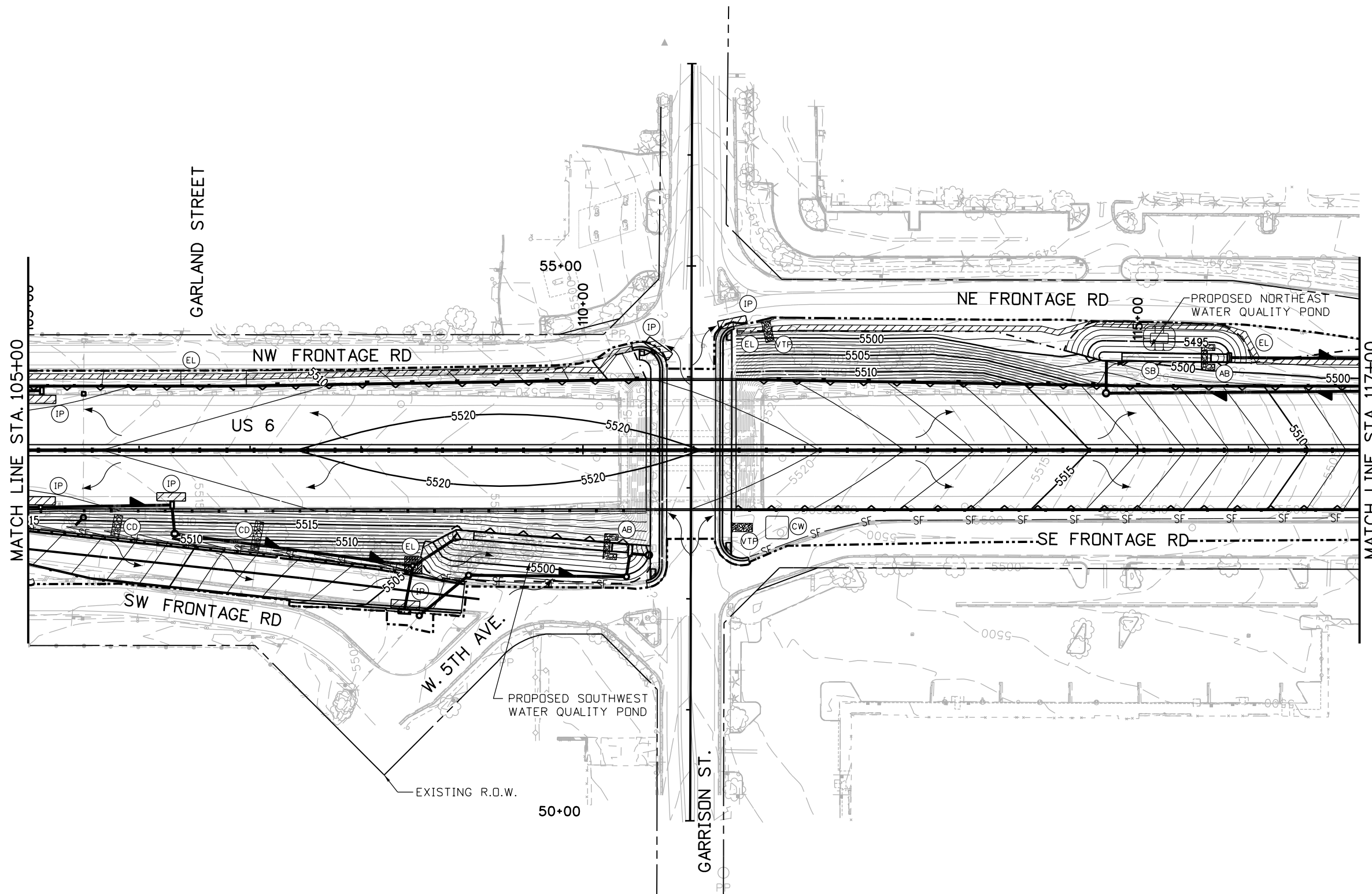
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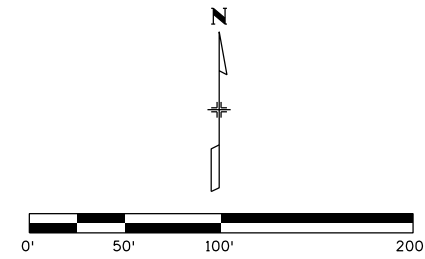
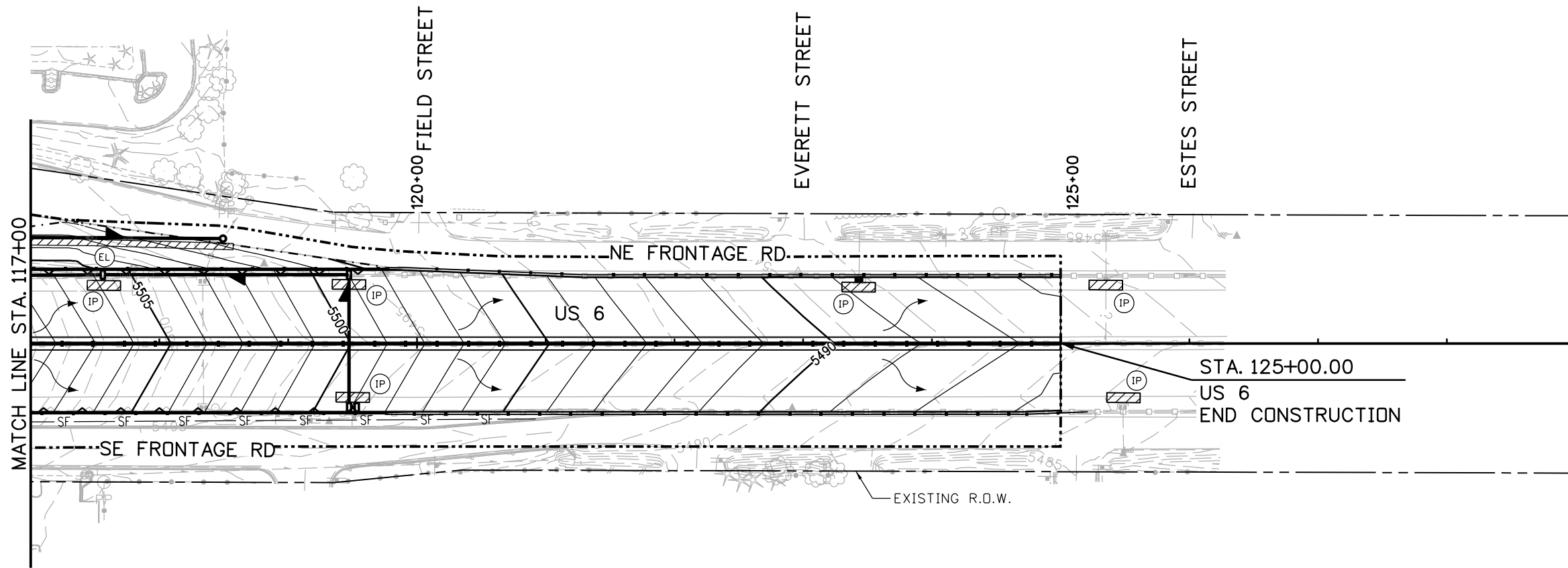
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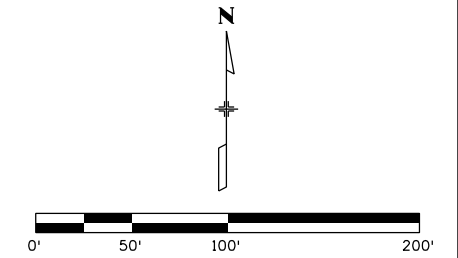
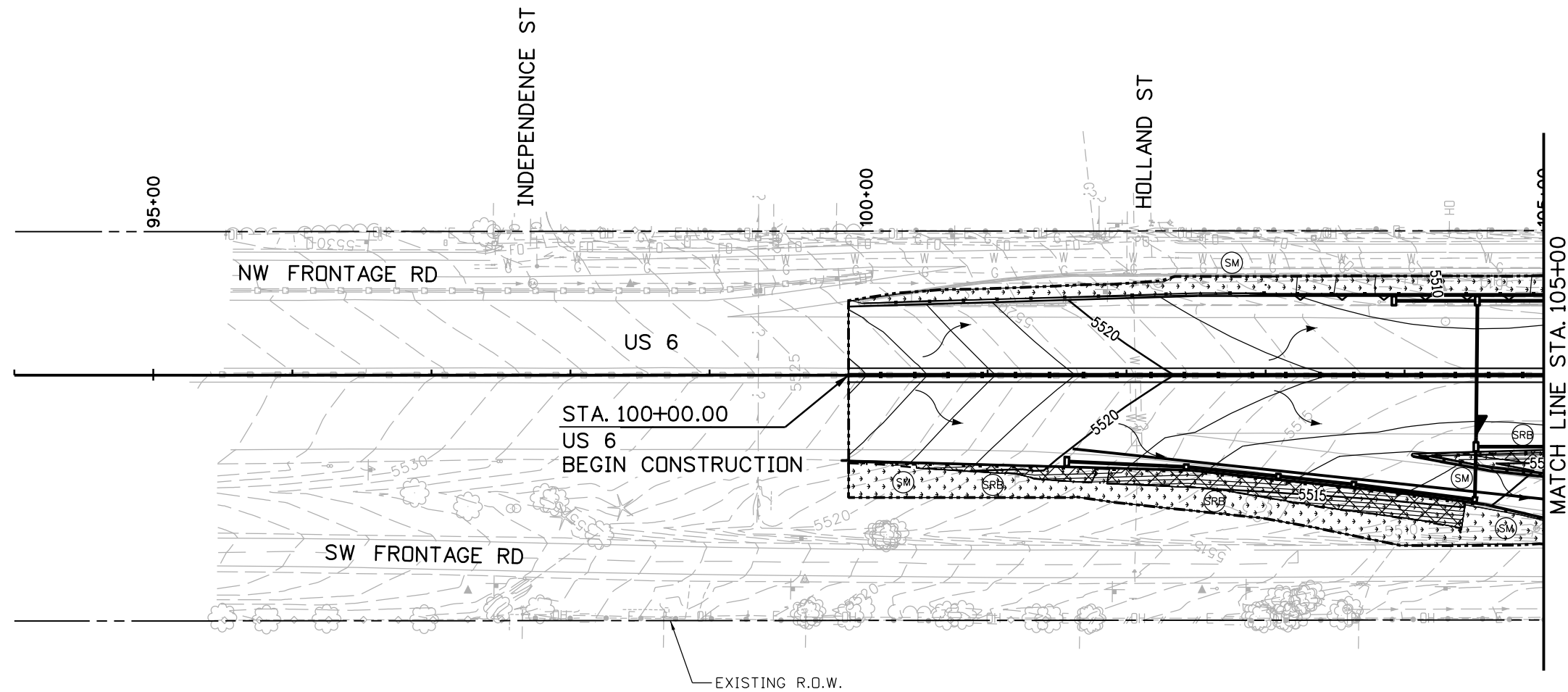
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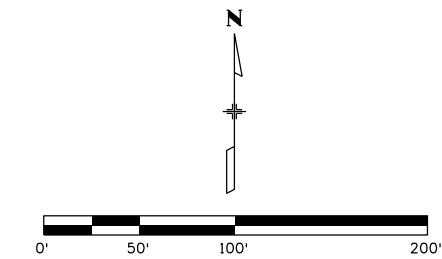
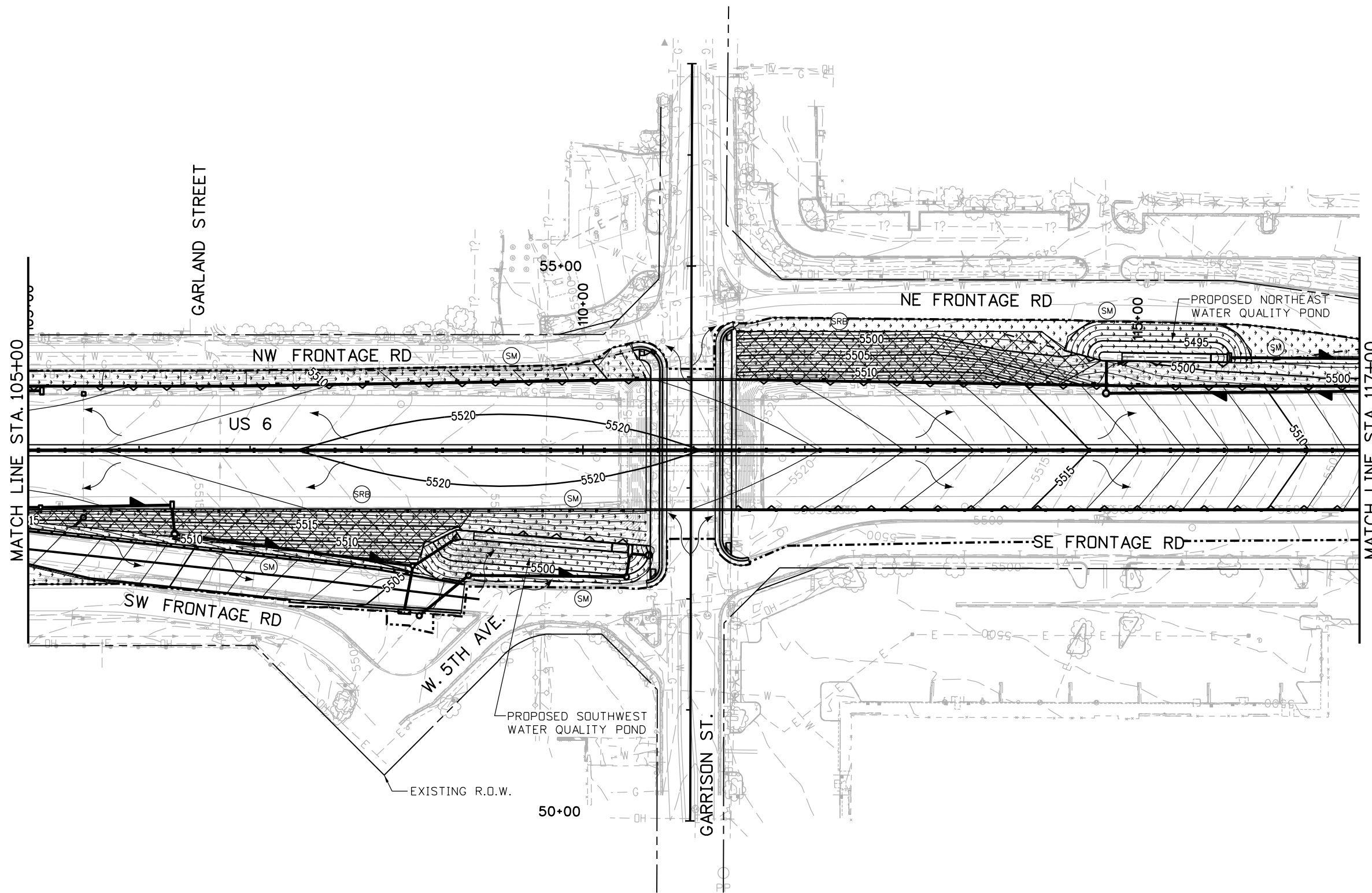
NOTE:

1. INSTALL SEED/MULCH/TACKIFIER AT THE WATER QUALITY POND AFTER COMPLETION OF GRADING.

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Unit Information Unit Leader				Region 1 KPB		Void:		Detailer: CS	Numbers		
						Sheet Subset: SWMP		Subset Sheets: E11 of 13		Sheet Number 58	

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NOTE:
1. SEE SHEET E11 OF 13 FOR NOTES.

Print Date: 7/2/2014
File Name: 19478-ERDSPL-FINAL-02.dgn
Horiz. Scale: 1:100 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**

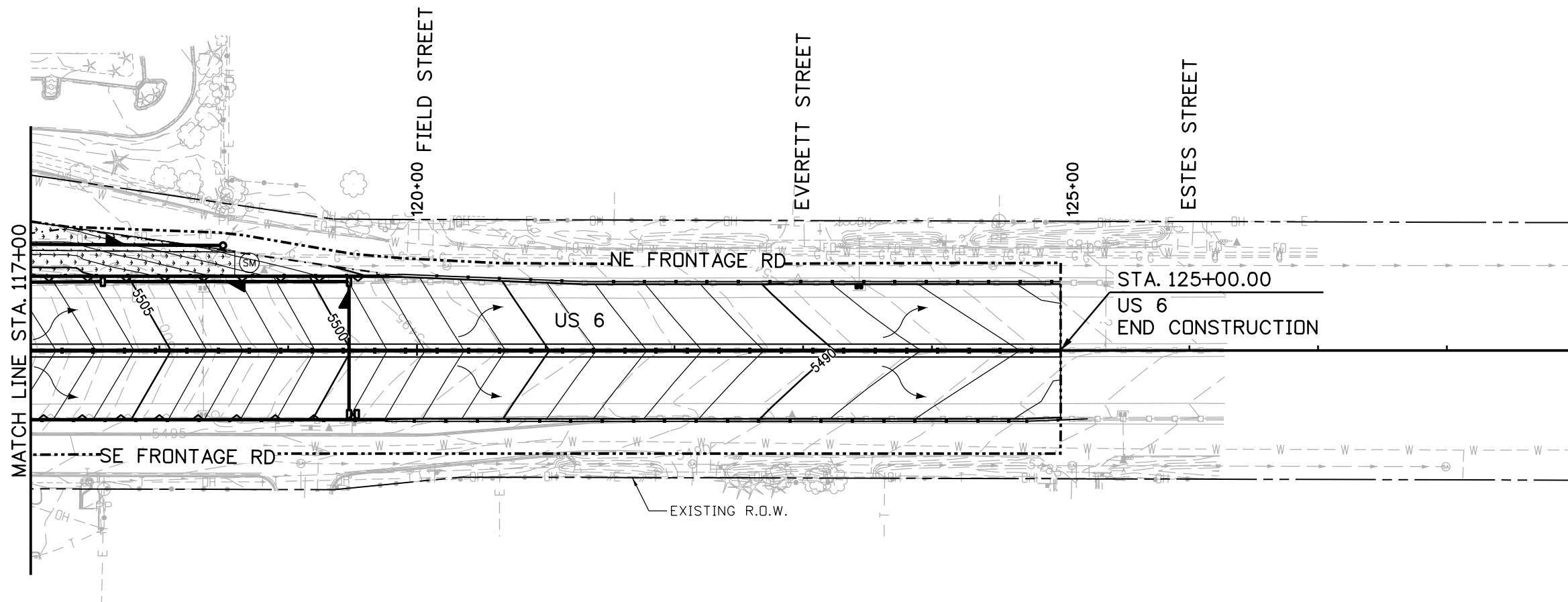
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Revised:
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FINAL STORM WATER MANAGEMENT PLAN			
Designer:	GS	Structure Numbers	
Detailer:	CS		
Sheet Subset:	SWMP	Subset Sheets:	E12 of 13

Project No./Code
FBR 0063-046
19478
Sheet Number 59

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NOTE:
1. SEE SHEET E11 OF 13 FOR NOTES.

Print Date: 7/2/2014	0000
File Name: 19478-ERDSPL-FINAL-03.dgn	
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Sheet Revisions		
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Colorado Department of Transportation
 425 B Corporate Circle
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 Region 1 KPB

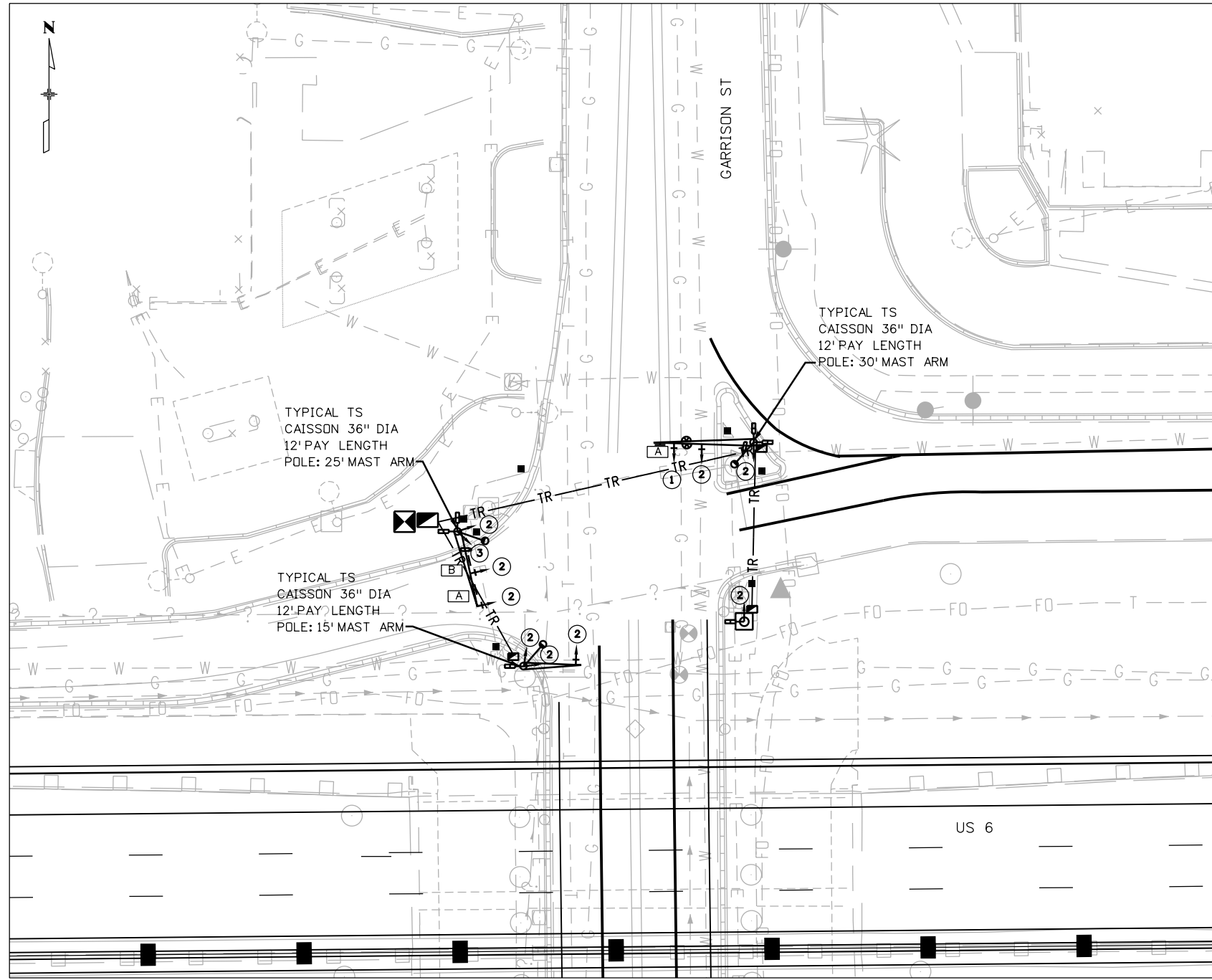
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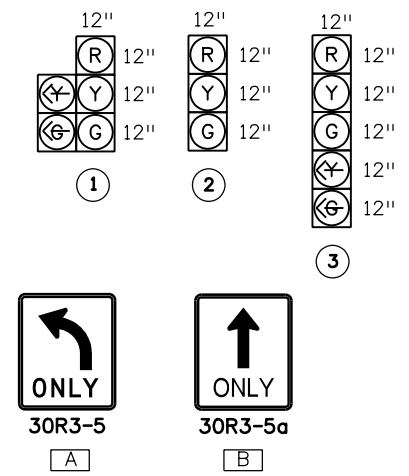
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FBR 0063-046
19478
Sheet Number 60

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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	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 1)	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)	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

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



**Know what's below.
Call before you dig.**

Print Date: 11/18/2013
File Name: 19478TRAF_Signal-01.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
6580 AK

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

2000 South Holly Street
Denver, CO 80222
Phone: 303-757-9511 FAX: 303-757-9907

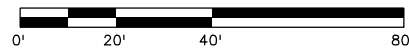
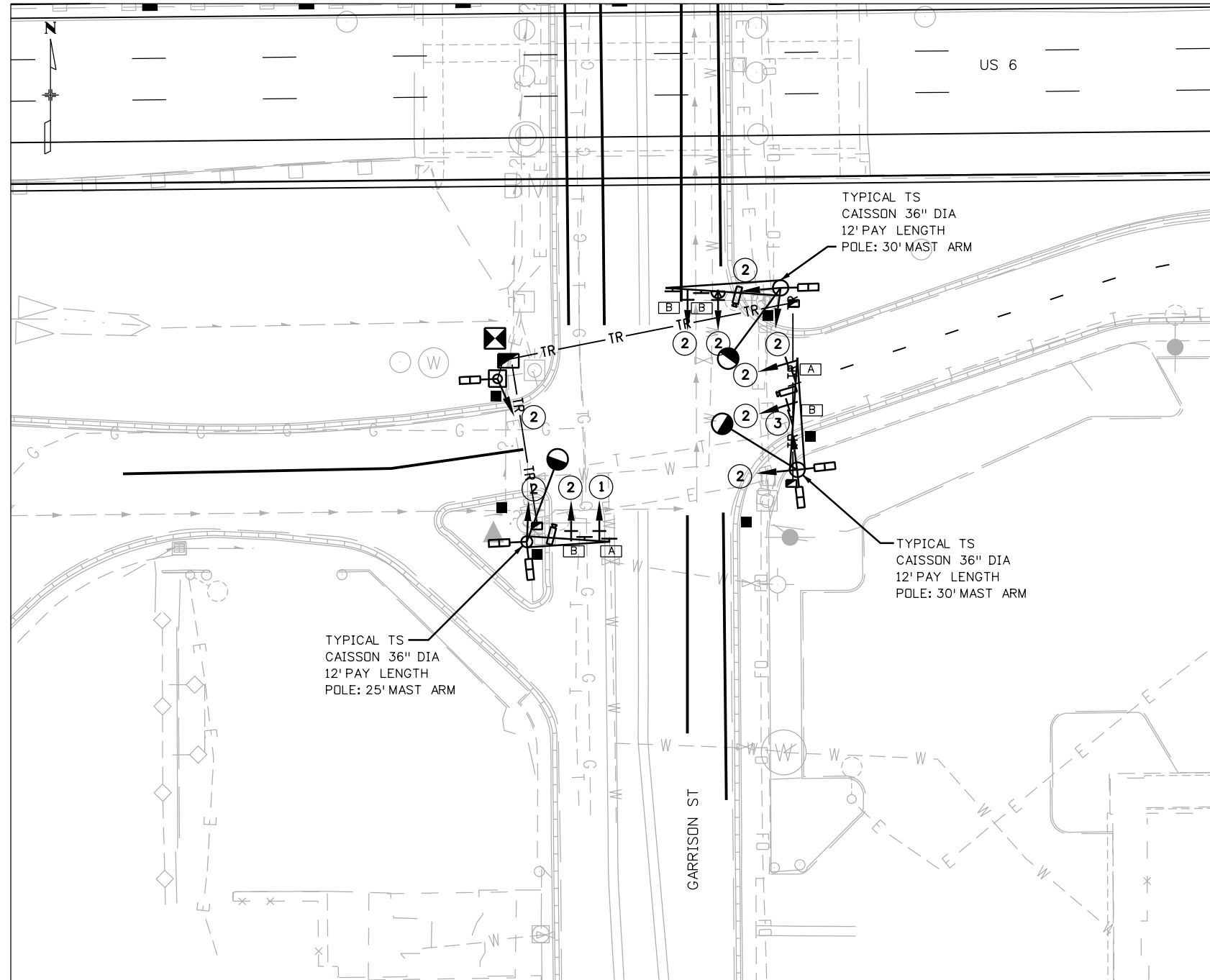
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As Constructed
No Revisions:
Revised:
Void:

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Detailer:	JCN	Numbers	
Sheet Subset:	TRAFFIC	Subset Sheets:	of

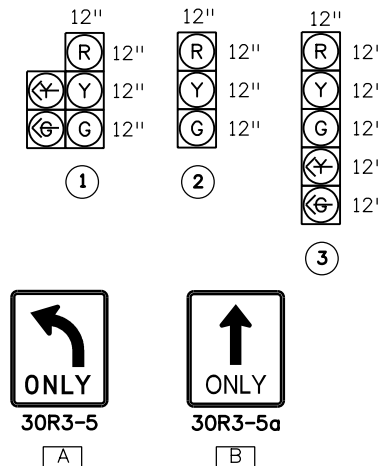
Project No./Code
Project Number
19478
Sheet Number 61

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

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

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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



**Know what's below.
 Call before you dig.**

Print Date: 11/19/2013
File Name: 19478TRAF_Signal-02.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted
6580 AK

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

2000 South Holly Street
 Denver, CO 80222
 Phone: 303-757-9511 FAX: 303-757-9907

Region 1 Traffic and Safety LR

As Constructed
No Revisions:
Revised:
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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 62

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	⊙	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

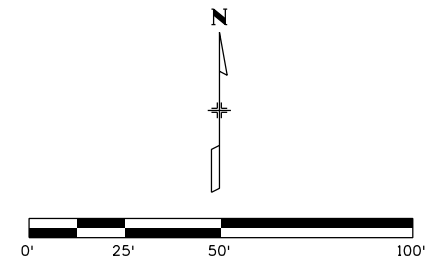
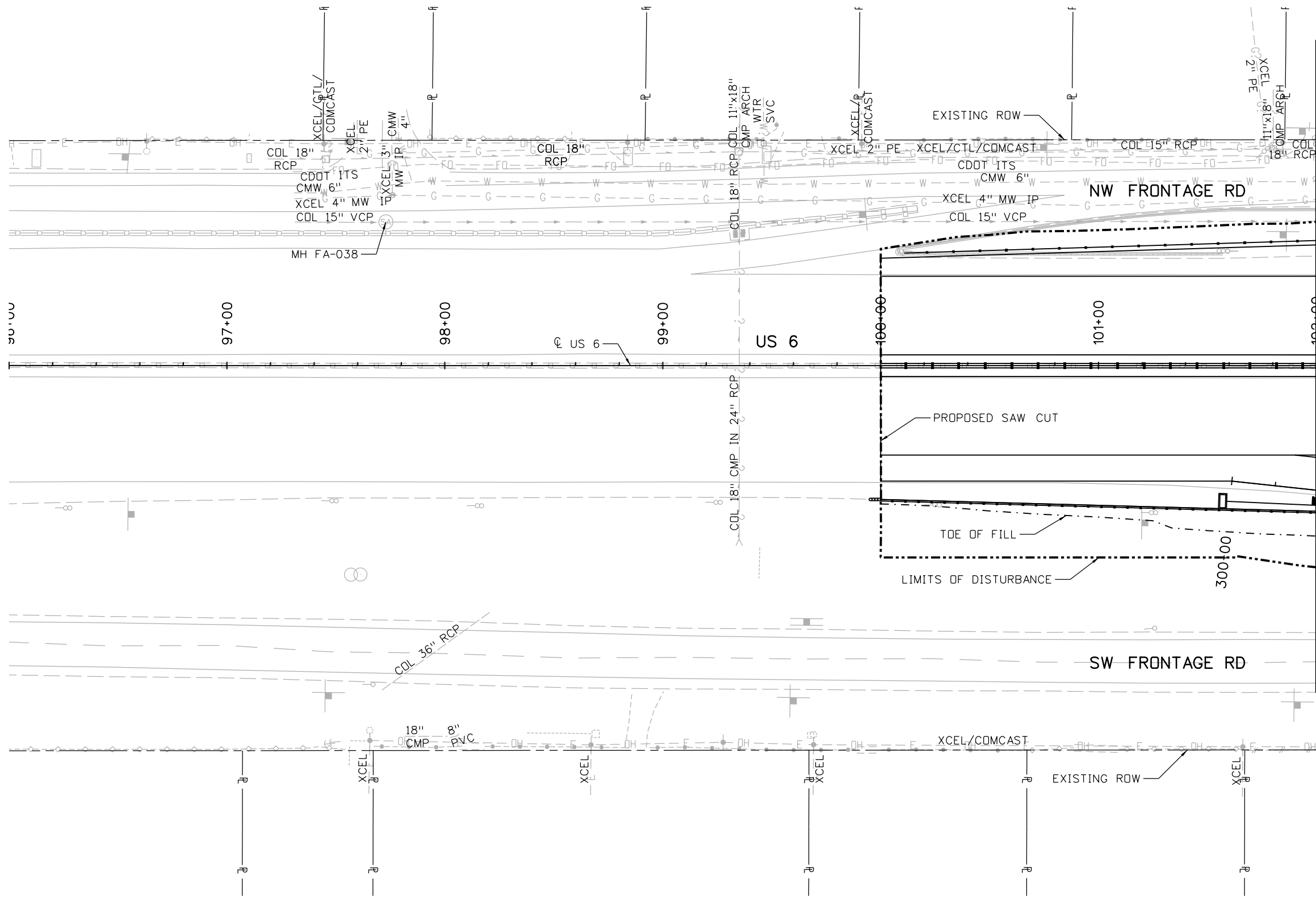
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Print Date: 7/2/2014		Sheet Revisions Date: Comments Init. 	Colorado Department of Transportation 425 B Corporate Circle Golden, CO 80401 Phone: 720-497-6954 FAX: 720-497-6951 Region 1	As Constructed No Revisions: Revised: Void:	EXISTING UTILITY PLAN US 6 UTILITY CONTACTS & LEGEND			Project No./Code
File Name: 19478-UTILGEN-01.dgn								FBR 0063-046
Horiz. Scale: 1:50 Vert. Scale:					19478			
Unit Information Unit Leader					Sheet Number 63			
 1300 S. WASHINGTON PLACE CENTENNIAL, CO 80106 PHONE 303-744-1000 FAX 303-744-1000		Designer: SEM Structure Numbers Detailer: SEM Sheet Subset: UTILITY Subset Sheets: U1 of 6						

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NOTES:
 1. 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.

2. ALL UTILITY SURFACE FEATURES, INCLUDING VALVES, METERS, MANHOLES, ETC. SHALL BE PROTECTED DURING CONSTRUCTION AND ADJUSTED TO 1/4" TO 1/2" BELOW FINAL GRADE EXCEPT AS OTHERWISE NOTED. THE ENTITY RESPONSIBLE FOR MAKING THE ADJUSTMENTS SHALL DETERMINE THE CORRECT NUMBER AND HEIGHT OF ADJUSTERS NEEDED. APPURTENANCES SHALL BE ROTATED SO AS NOT TO BE PLACED IN THE CURB HEAD.

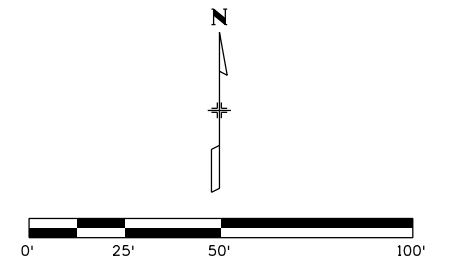
3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

MATCH LINE STA. 102+00



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Horiz. Scale: 1:50 Vert. Scale:									Revised: Void:				
Unit Information Unit Leader					Region 1		KPB					Designer: SEM	Structure Numbers
GOODBEE & ASSOCIATES, INC. 13809 E. BELLEVUE BLVD. CENTENNIAL, CO 80110 PHONE: 303.746.9800 FAX: 303.746.9801					Sheet Subset: UTILITY Subset Sheets: U2 of 6		Detailer: SEM						

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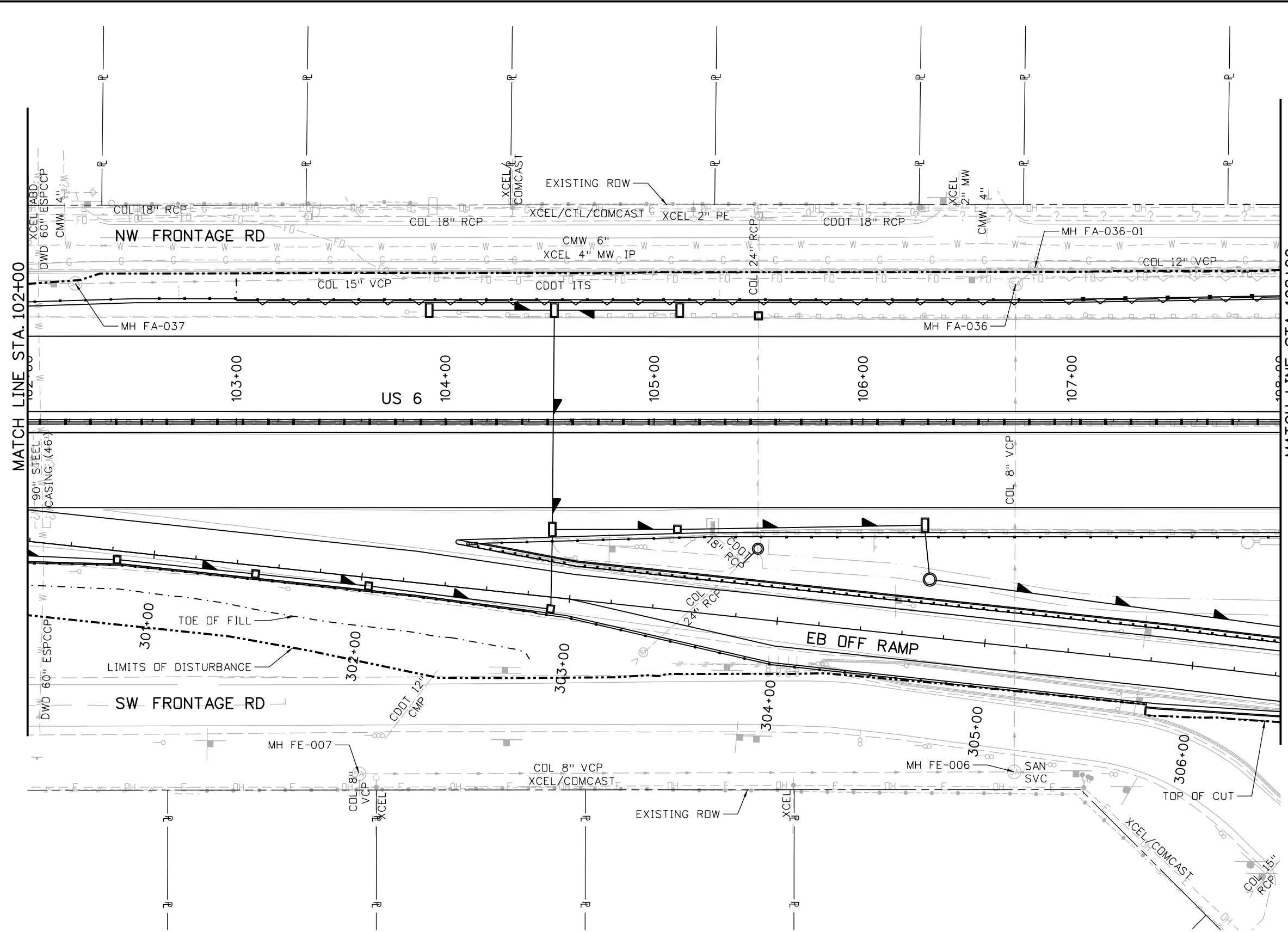


NOTES:
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3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

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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Print Date: 7/2/2014	
File Name: 19478-UTILPL-02.dgn	
Horiz. Scale: 1:50	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

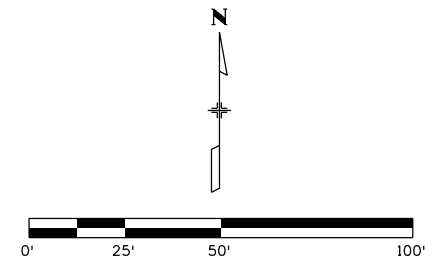
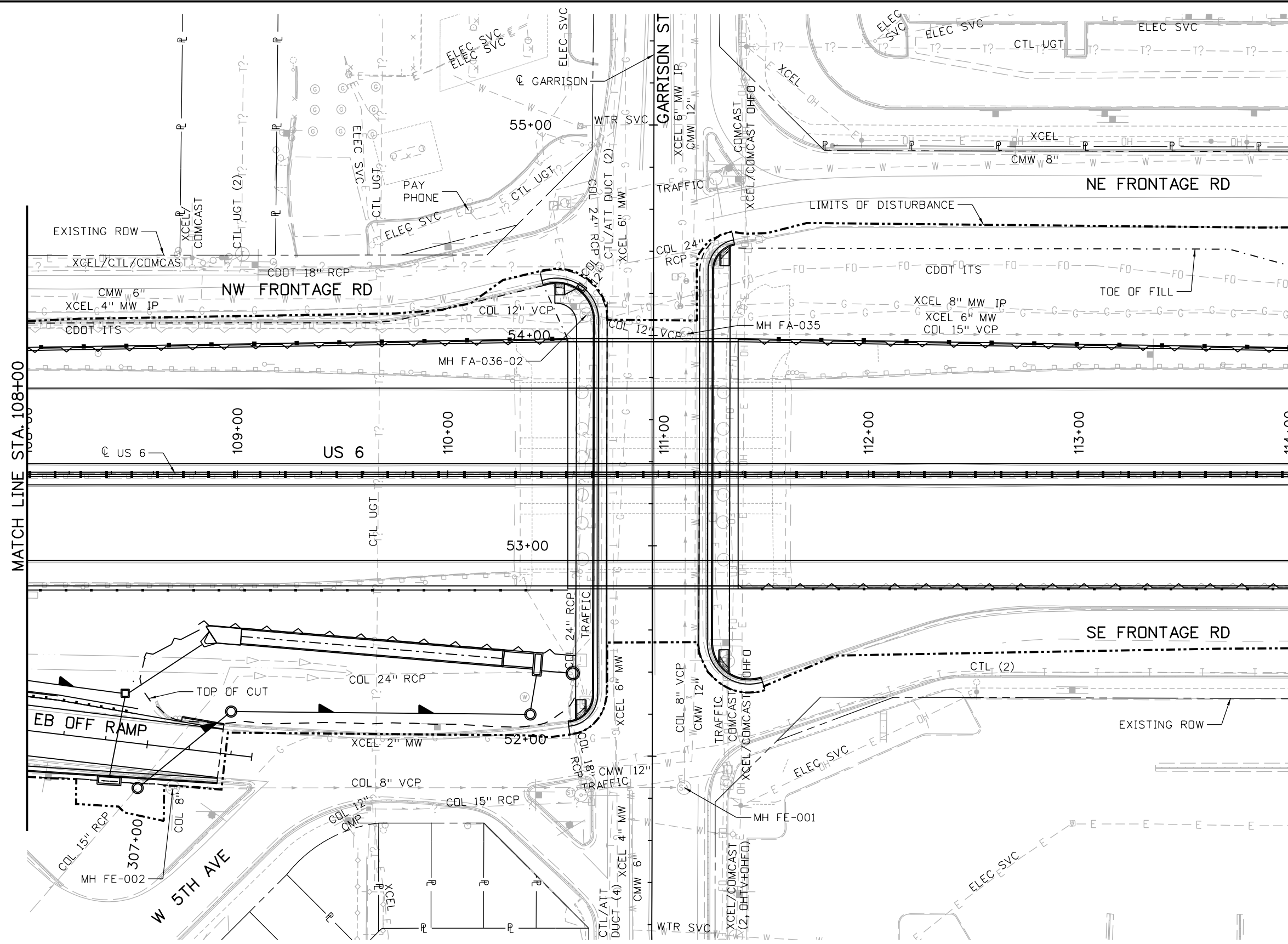
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EXISTING UTILITY PLAN			
US 6			
STA 102+00 TO STA 108+00			
Designer:	SEM	Structure	
Detailer:	SEM	Numbers	
Sheet Subset:	UTILITY	Subset Sheets:	U3 of 6

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

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- NOTES:**
- 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. 108+00

MATCH LINE STA. 114+00

Print Date: 7/2/2014
File Name: 19478-UTILPL-03.dgn
Horiz. Scale: 1:50 Vert. Scale:
Unit Information Unit Leader

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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**

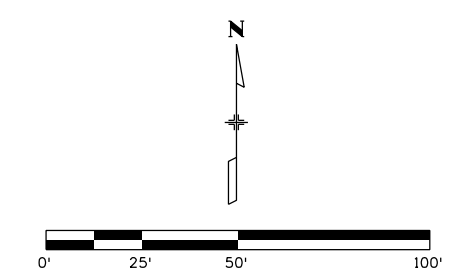
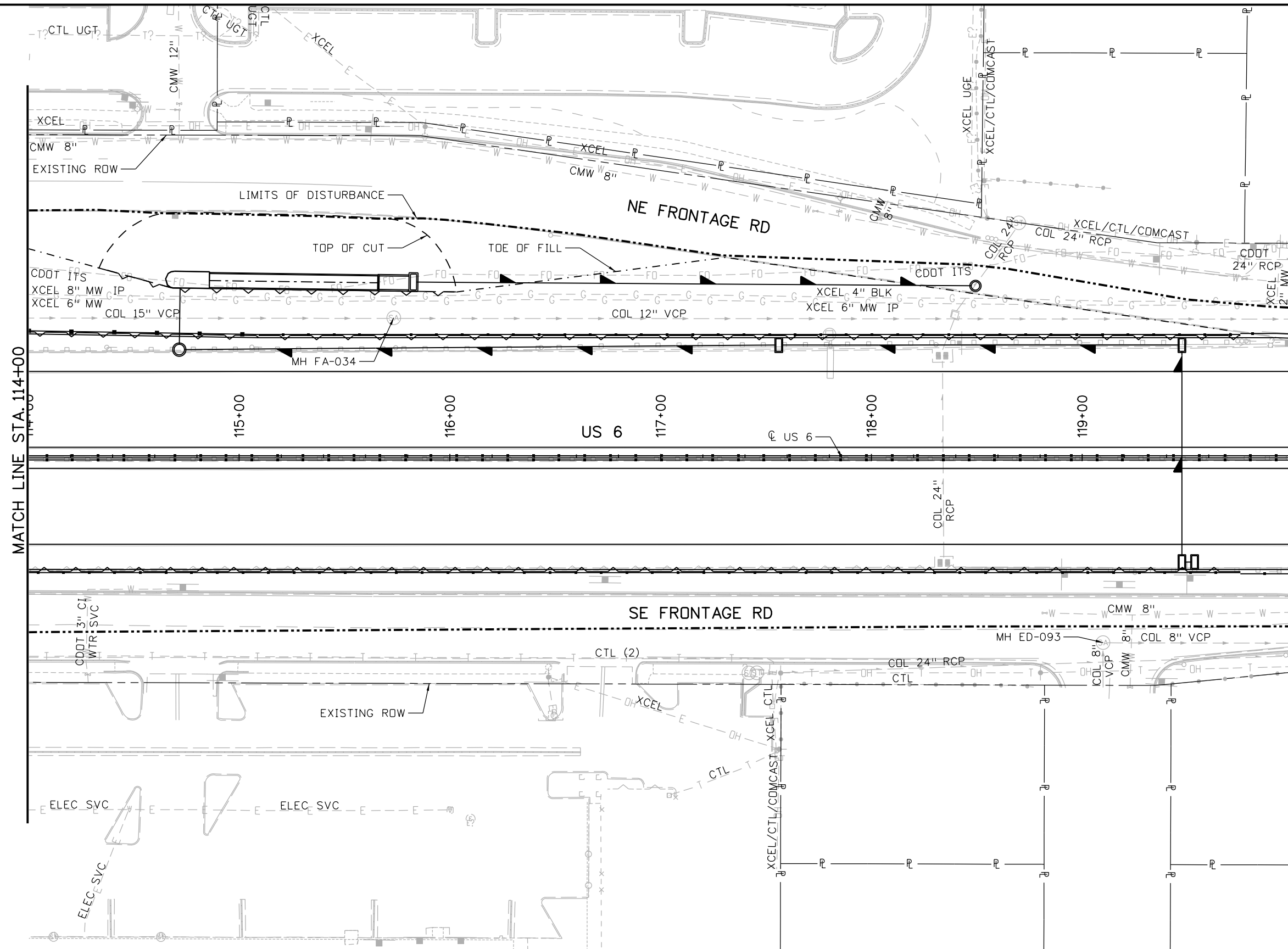
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Revised:
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EXISTING UTILITY PLAN		
US 6		
STA 108+00 TO STA 114+00		
Designer:	SEM	Structure
Detailer:	SEM	Numbers
Sheet Subset:	UTILITY	Subset Sheets: U4 of 6

Project No./Code
FBR 0063-046
19478
Sheet Number 66



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NOTES:
 1. 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.

2. ALL UTILITY SURFACE FEATURES, INCLUDING VALVES, METERS, MANHOLES, ETC. SHALL BE PROTECTED DURING CONSTRUCTION AND ADJUSTED TO 1/4" TO 1/2" BELOW FINAL GRADE EXCEPT AS OTHERWISE NOTED. THE ENTITY RESPONSIBLE FOR MAKING THE CORRECT NUMBER AND HEIGHT OF ADJUSTERS NEEDED. APPURTENANCES SHALL BE ROTATED SO AS NOT TO BE PLACED IN THE CURB HEAD.

3. SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.



kristi.gempferline 4:28:45 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2M\Project Info\473244_US6Garrison\JPC Code\USER\KJG\19478-UTILPL-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

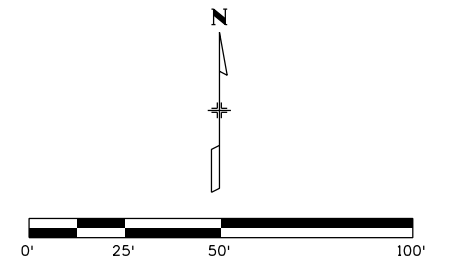
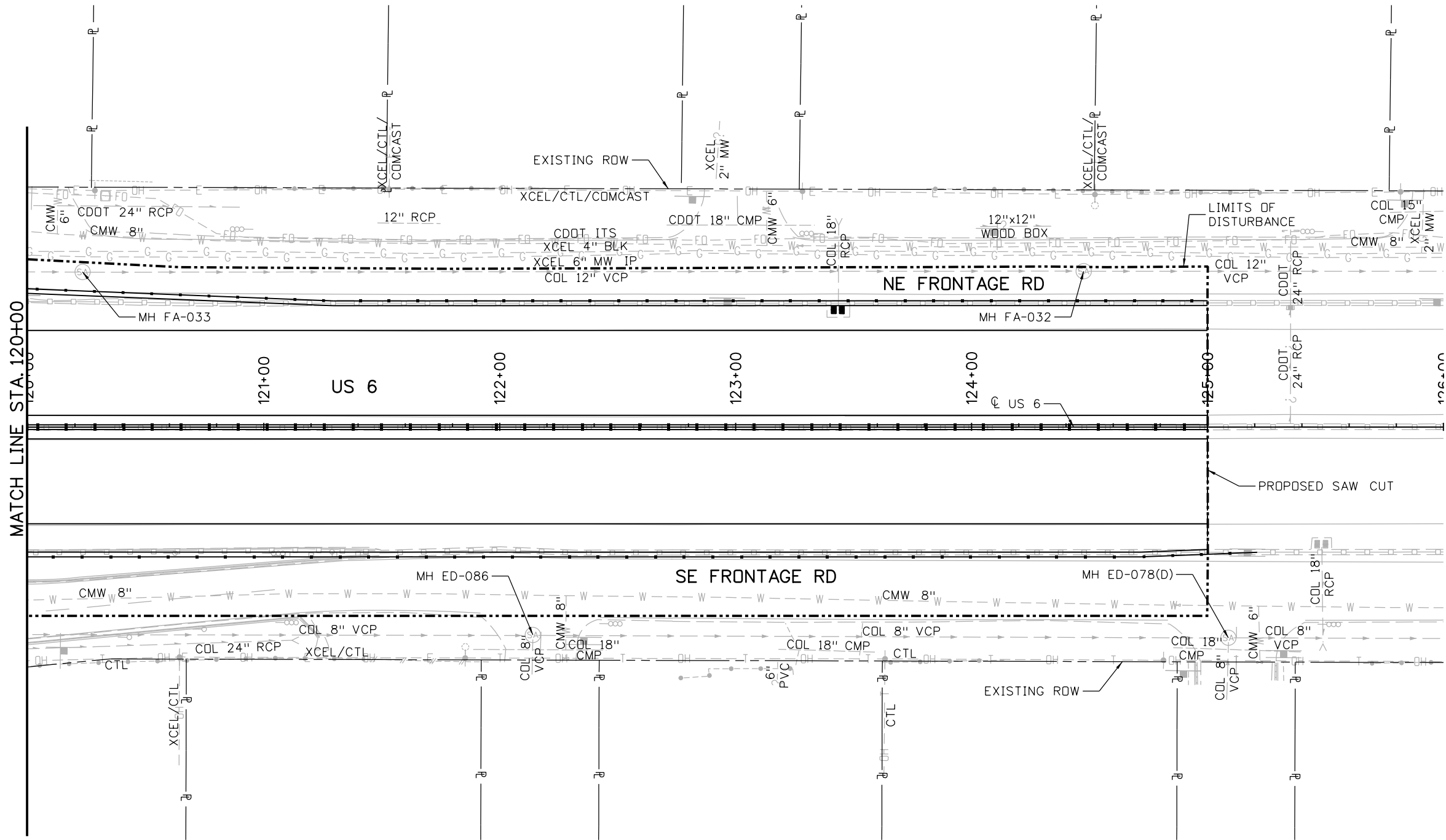
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EXISTING UTILITY PLAN			
US 6			
STA 114+00 TO STA 120+00			
Designer:	SEM	Structure	
Detailer:	SEM	Numbers	
Sheet Subset:	UTILITY	Subset Sheets:	U5 of 6

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

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NOTES:

- 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.
- ALL UTILITY SURFACE FEATURES, INCLUDING VALVES, METERS, MANHOLES, ETC. SHALL BE PROTECTED DURING CONSTRUCTION AND ADJUSTED TO 1/4" TO 1/2" BELOW FINAL GRADE EXCEPT AS OTHERWISE NOTED. THE ENTITY RESPONSIBLE FOR MAKING THE ADJUSTMENTS SHALL DETERMINE THE CORRECT NUMBER AND HEIGHT OF ADJUSTERS NEEDED. APPURTENANCES SHALL BE ROTATED SO AS NOT TO BE PLACED IN THE CURB HEAD.
- SEE DRAINAGE PLANS FOR PROPOSED STORM DETAILS.

MATCH LINE STA. 120+00

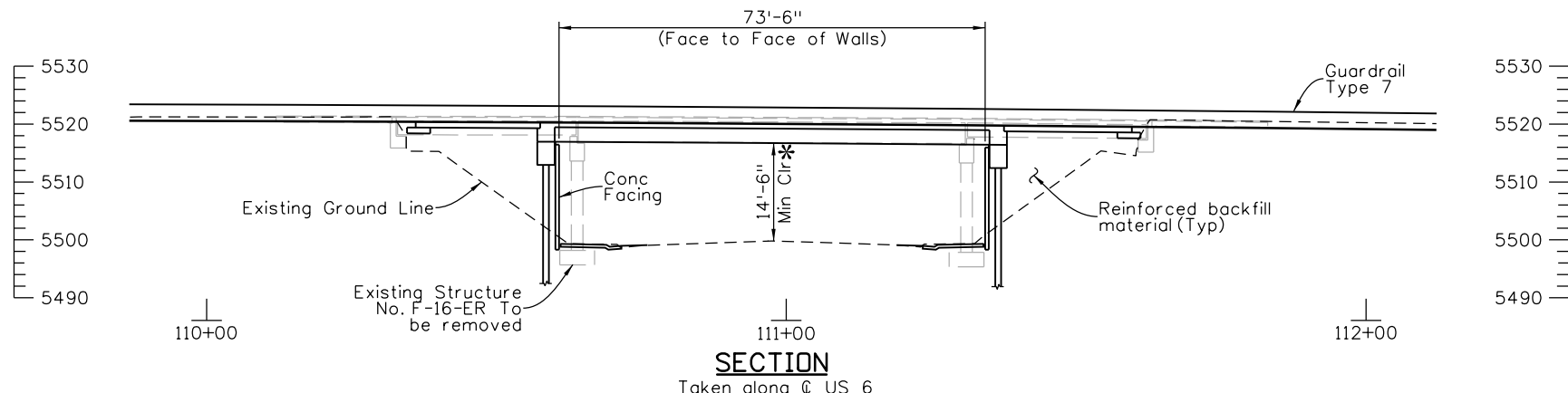
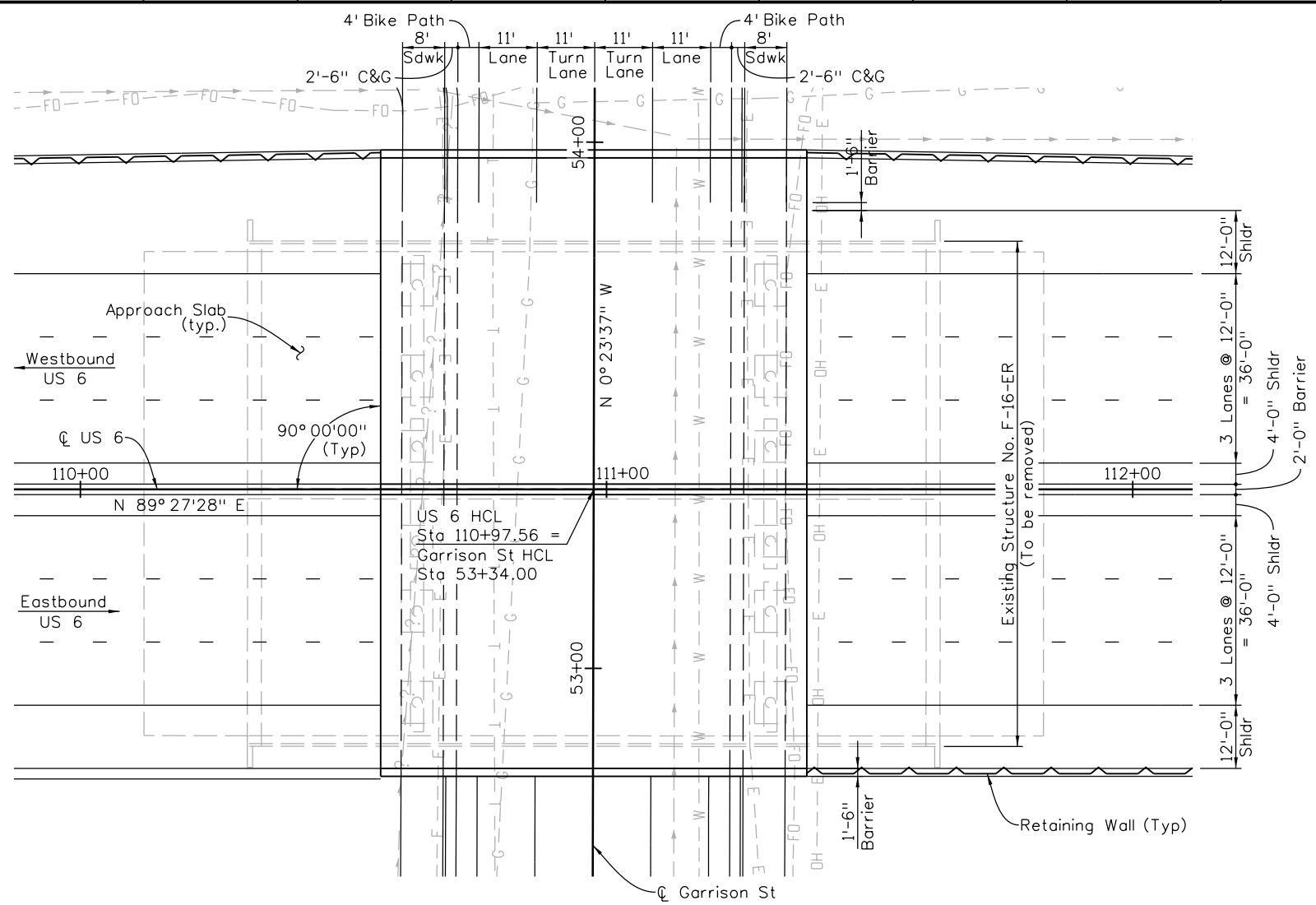


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Date:	Comments	Init.

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 Region 1 KP

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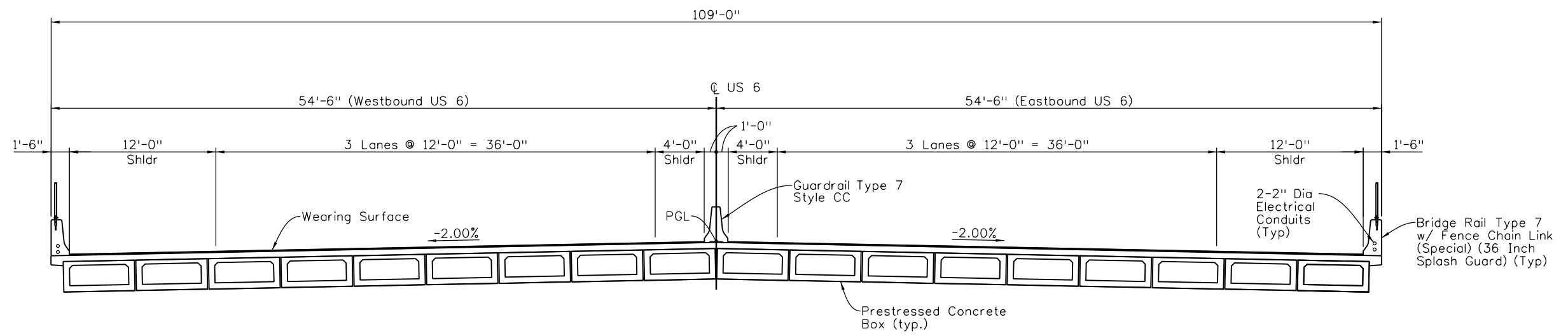
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Project No./Code
 FBR 0063-046
 19478
 Sheet Number 69

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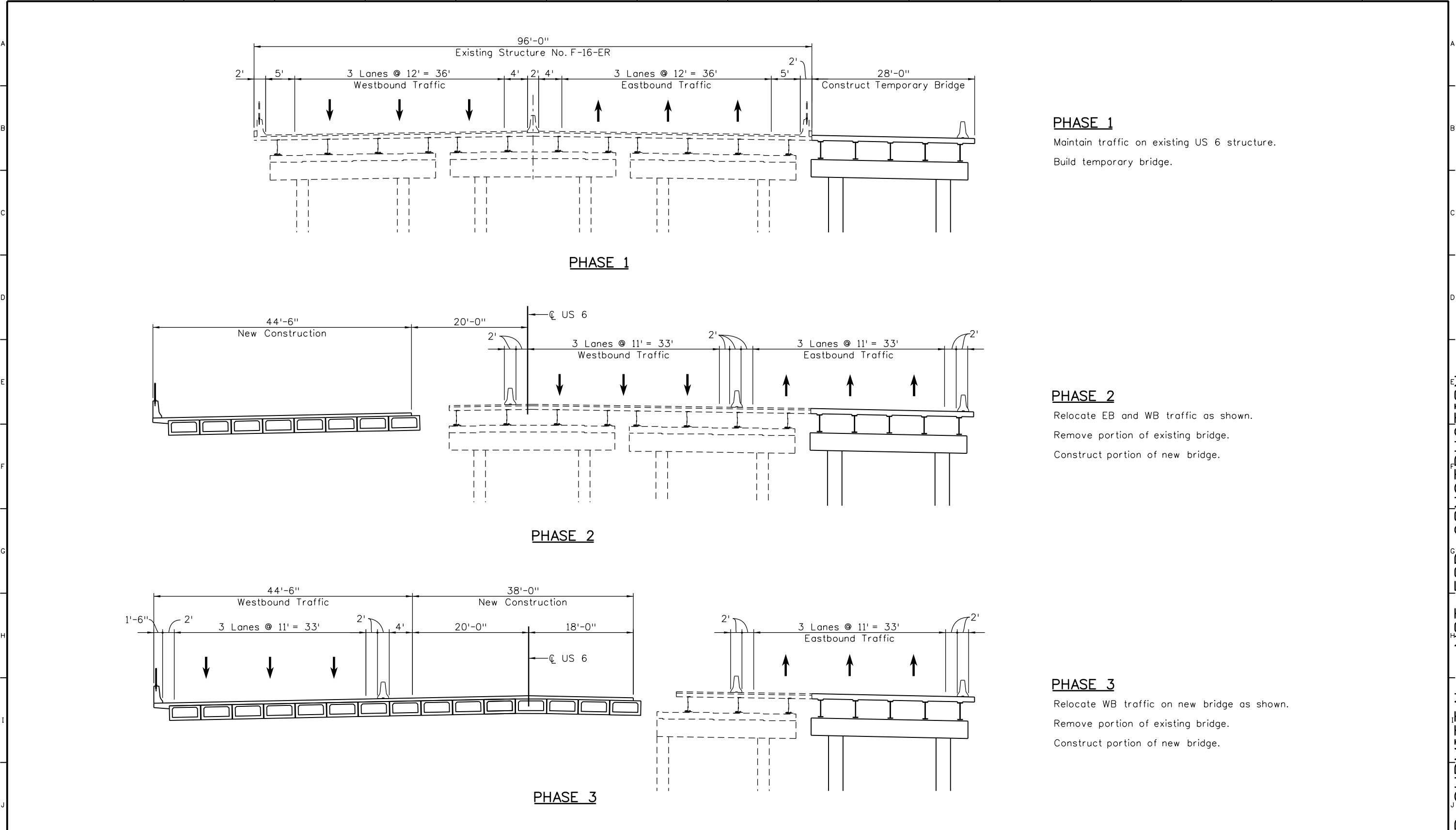
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Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By
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PHASE 1
 Maintain traffic on existing US 6 structure.
 Build temporary bridge.

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.

Print Date: 7/2/2014
 File Name: 19478-BRIDGE-ConstSeq01.dgn
 Horiz. Scale: 1:16 Vert. Scale:
 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
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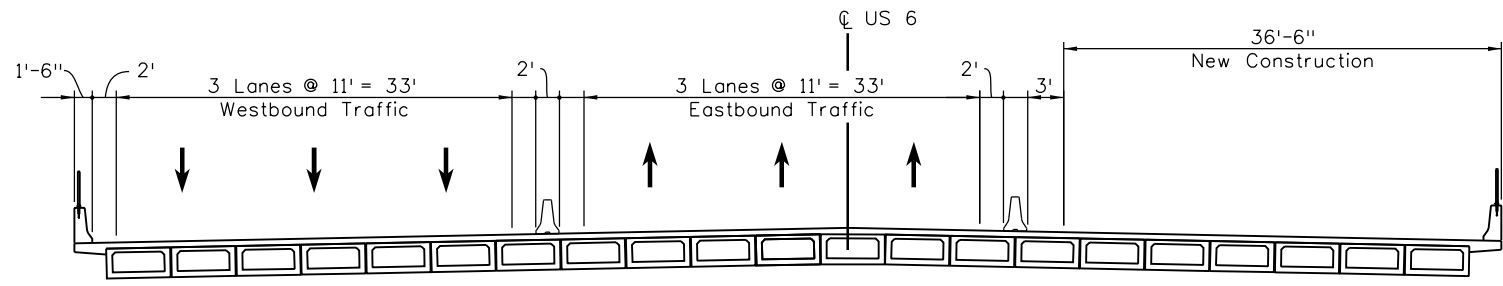
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1 OF 2			
Designer:	R. Luebbers	Structure Numbers	F-16-EW
Detailer:	J. Richardson	Subset Sheets:	B3 of 4

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

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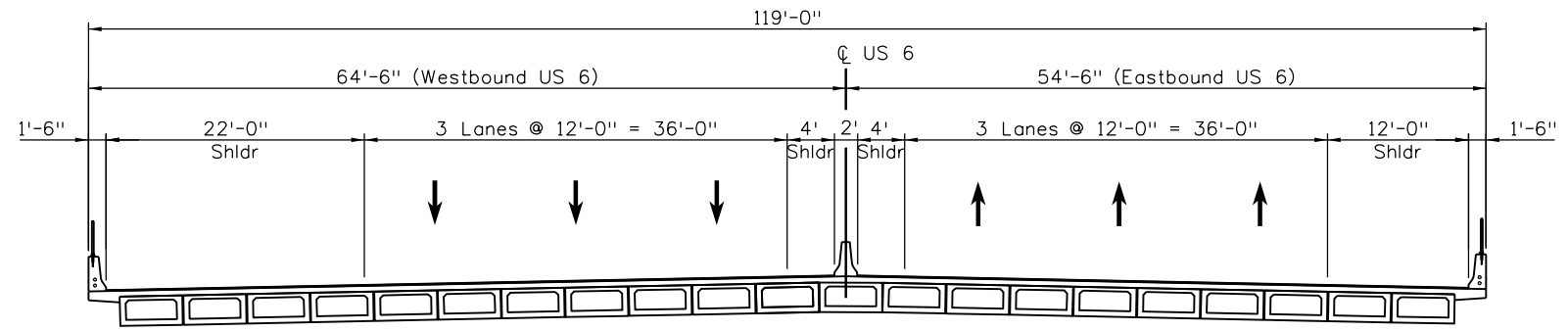
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PHASE 4

PHASE 4

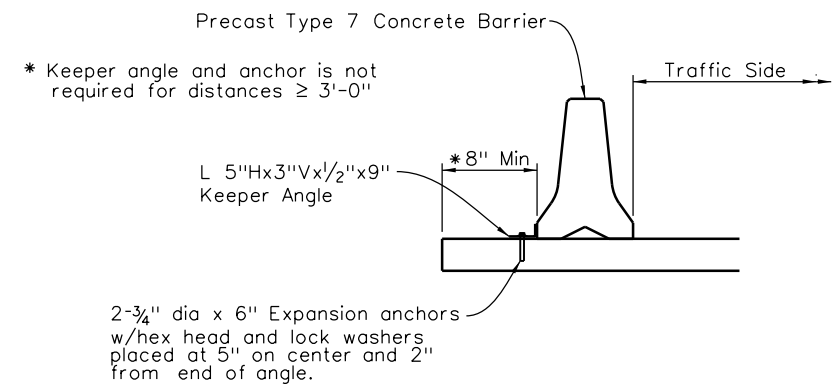
Relocate EB traffic on new bridge as shown.
 Remove remaining portion of existing bridge and temporary bridge.
 Construct remaining portion of new bridge.



FINAL CONFIGURATION

FINAL CONFIGURATION

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



TEMPORARY CONCRETE BARRIER DETAILS

NOTES:

Provide a minimum of 2 keeper angles per barrier. Space keeper angles 2'-6" from each end of each 10' precast barrier section.

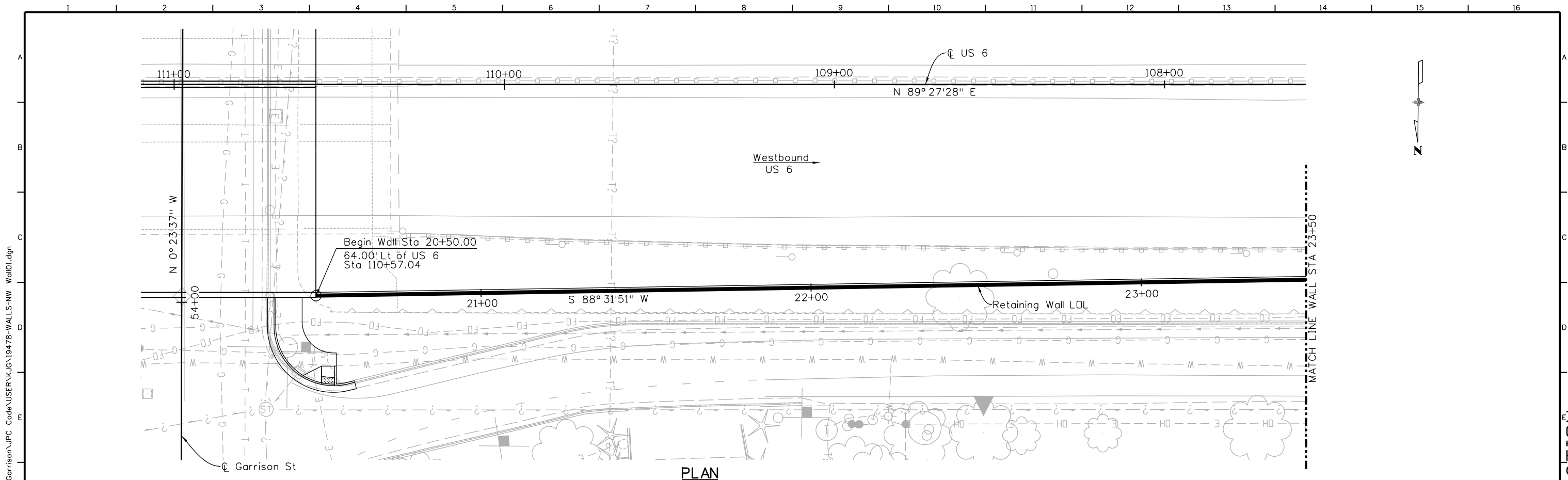
Expansion anchors shall be approved by the Engineer prior to installation.

After expansion anchors are removed, the remaining holes shall be filled with non-shrink grout.

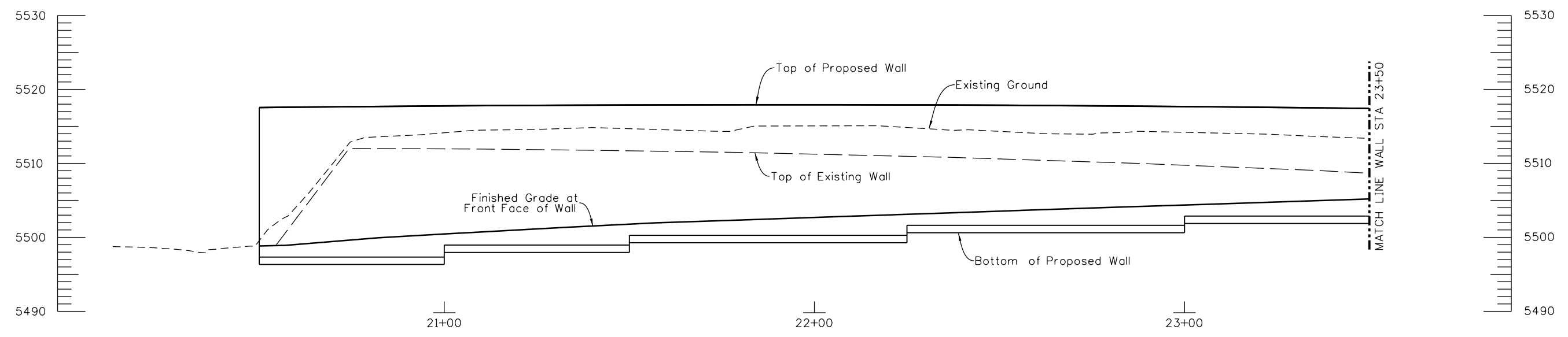
The cost for angles, expansion anchors, non-shrink grout, epoxy etc. and all work necessary to install these items shall be included in the cost of the work unless noted otherwise. See Roadway Plans.

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Staff Bridge Branch: Unit 0224 Unit Leader: AJP		KPB	Sheet Subset: Bridge	Structure Numbers F-16-EW	19478	Sheet Number 72													

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PLAN



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 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

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 Region 1 KP

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 Revised:
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**NORTHWEST RETAINING WALL
 GENERAL LAYOUT
 1 OF 3**

Designer:
 Detailer:
 Sheet Subset: Walls

Structure Numbers:
 Subset Sheets: W1 of 11

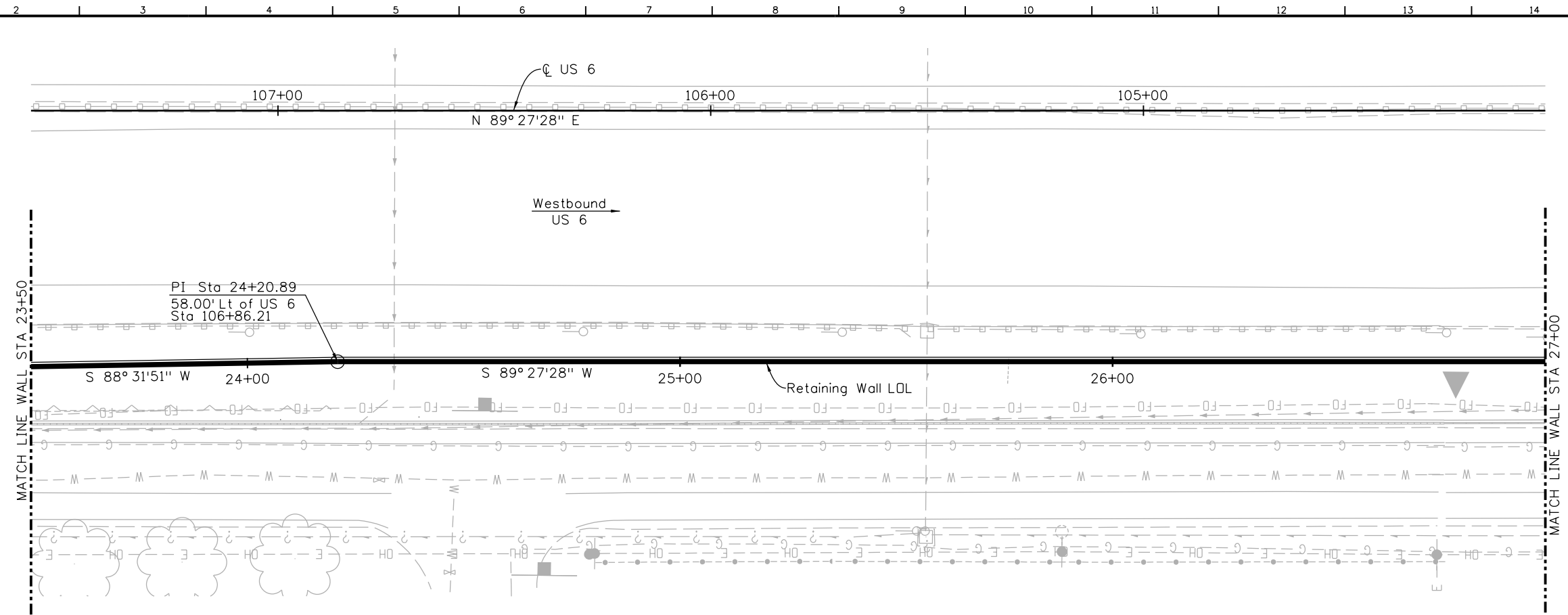
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 19478
 Sheet Number 73

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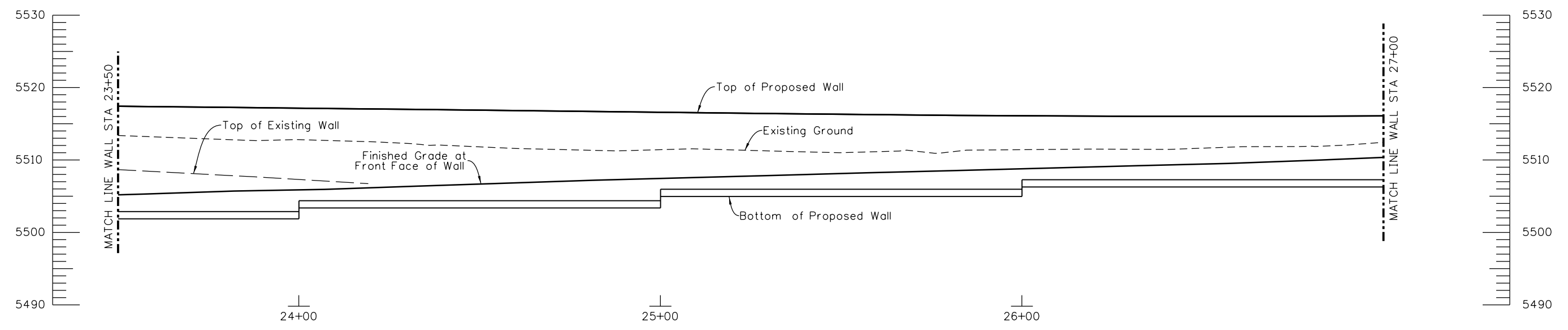
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PLAN



ELEVATION

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 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
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 425 B Corporate Circle
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Region 1 **KPB**

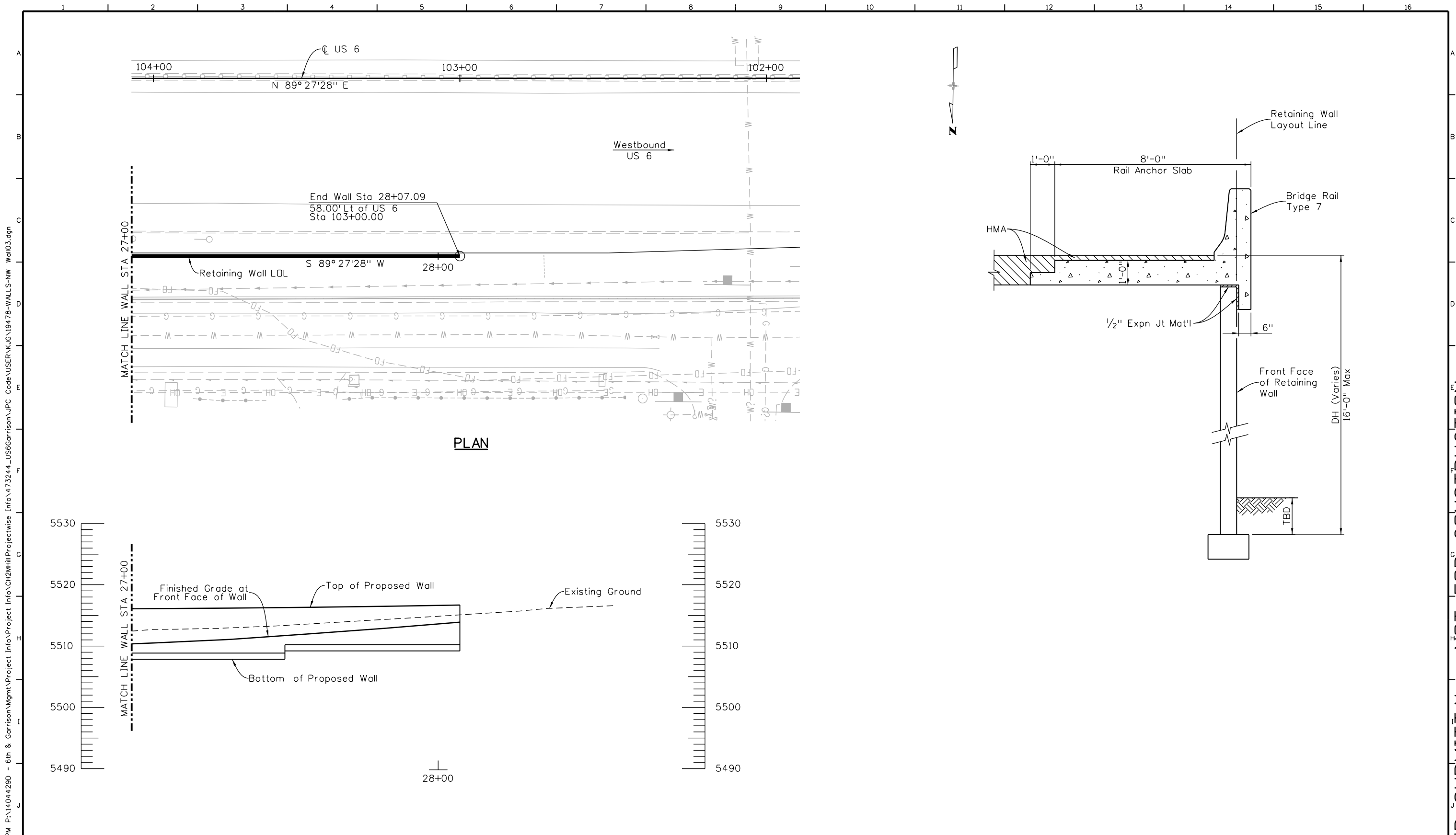
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NORTHWEST RETAINING WALL
GENERAL LAYOUT
2 OF 3

Designer:	Structure Numbers:
Detailer:	Subset Sheets: W2 of 11
Sheet Subset: Walls	

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

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 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

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Date:	Comments	Init.

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 Region 1 KP B

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 No Revisions:
 Revised:
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**NORTHWEST RETAINING WALL
 GENERAL LAYOUT
 3 OF 3**

Designer:
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Structure Numbers
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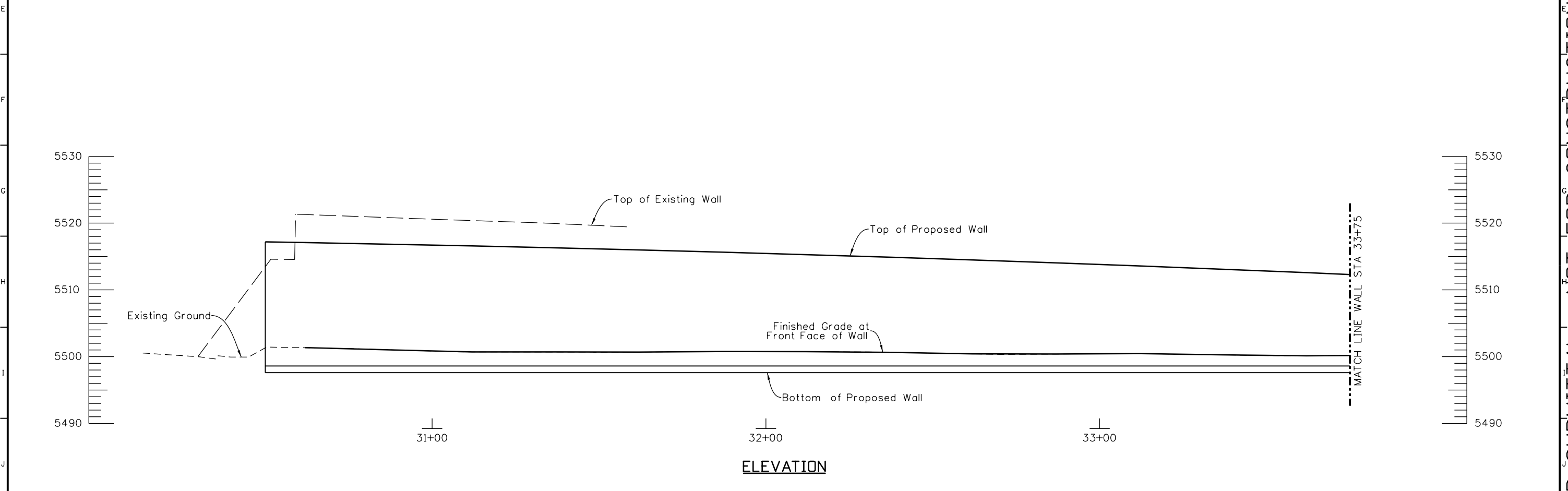
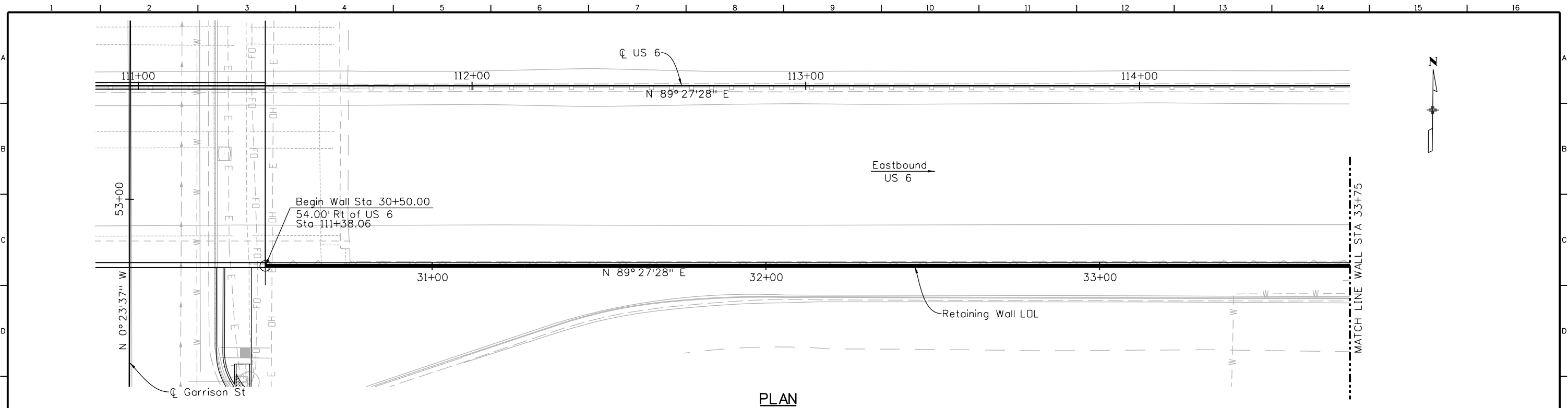
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Date:	Comments	Init.

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Region 1 **KPB**

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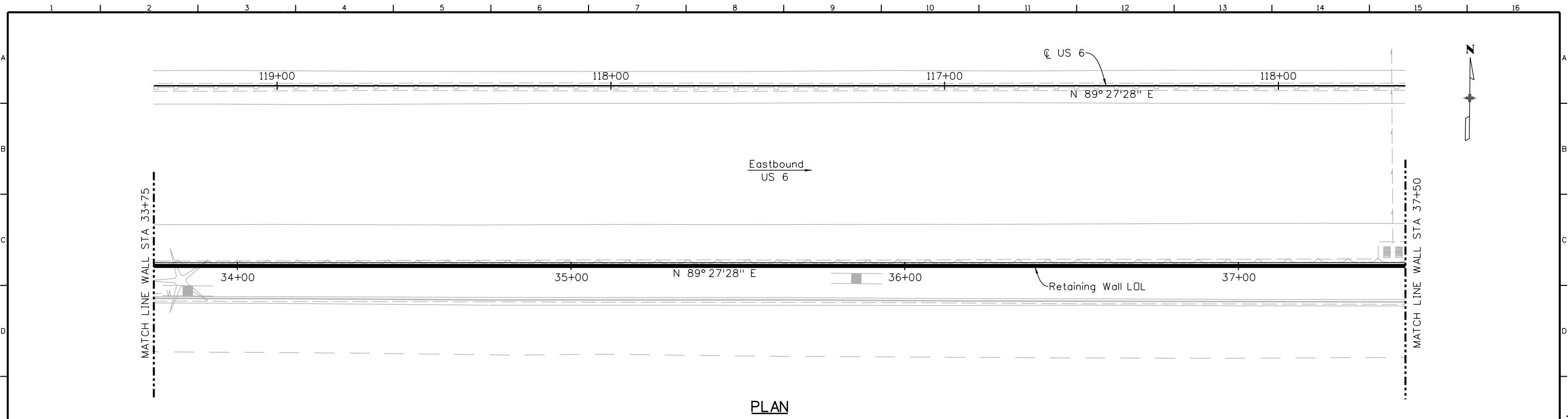
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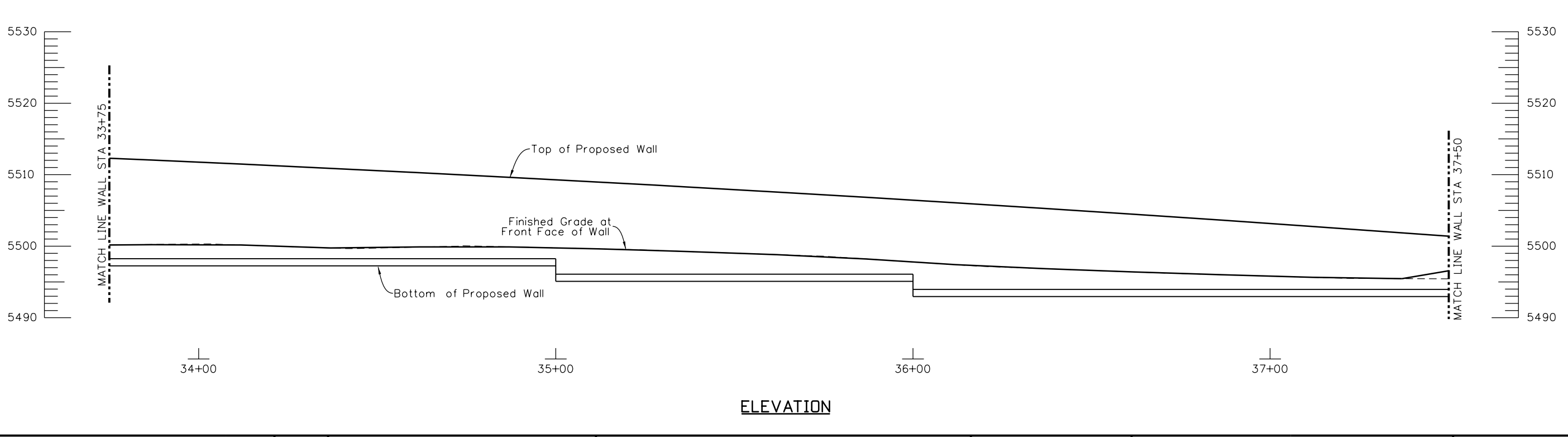
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PLAN



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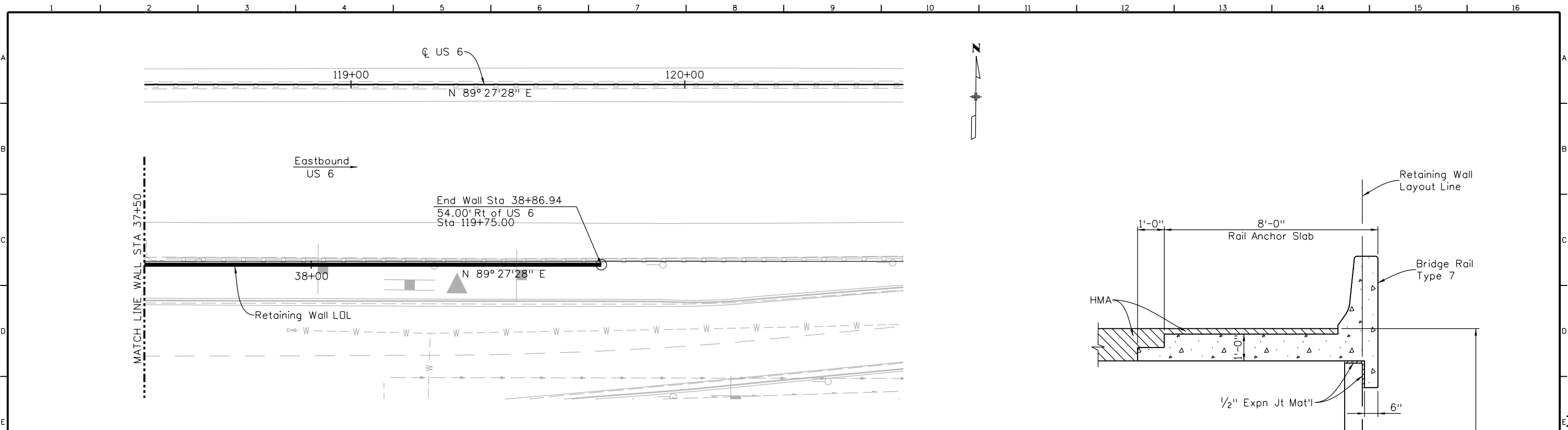
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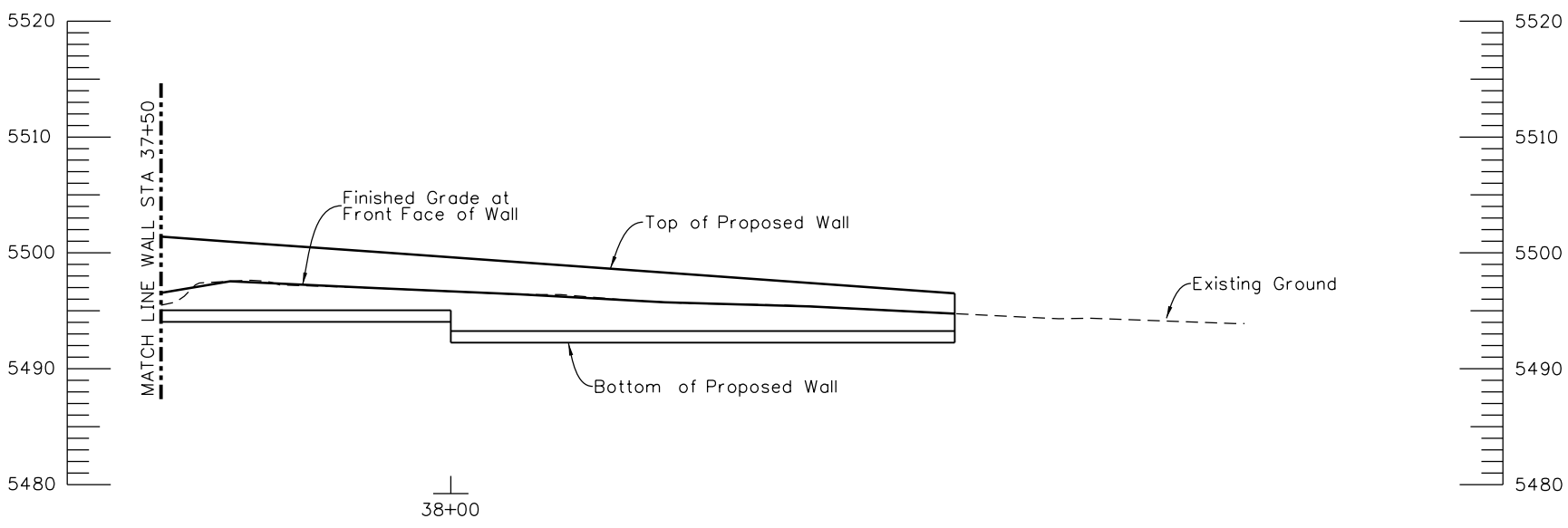
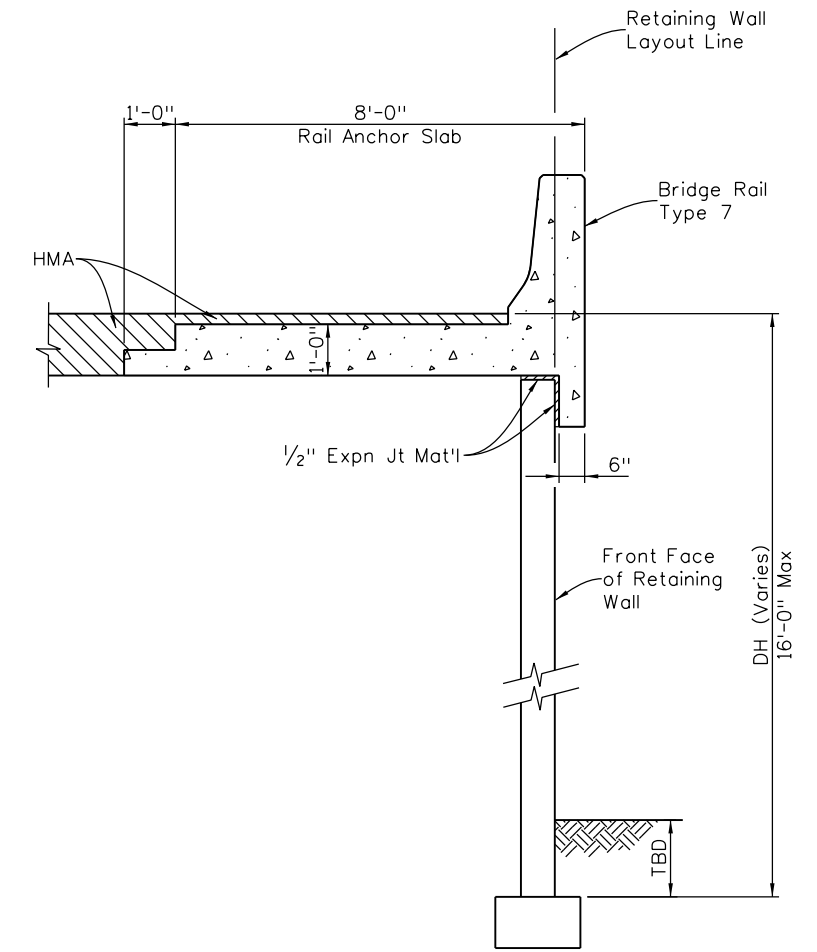
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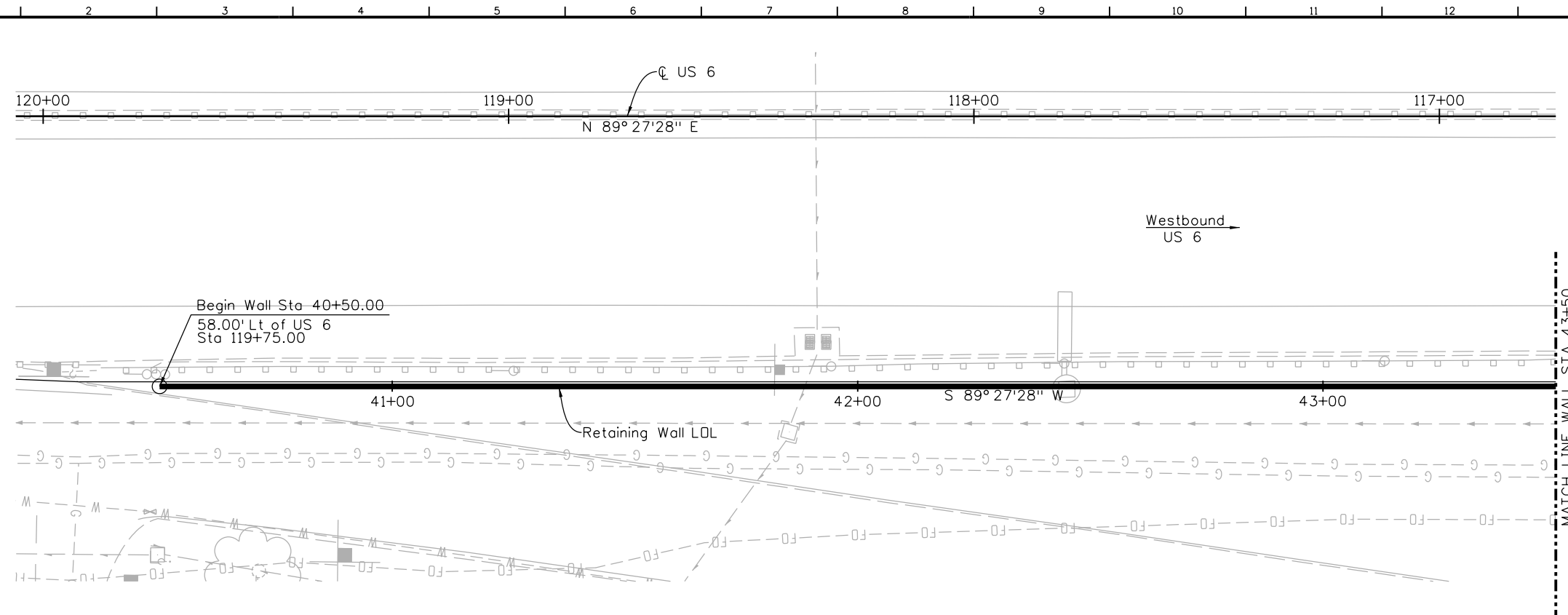
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3 OF 3
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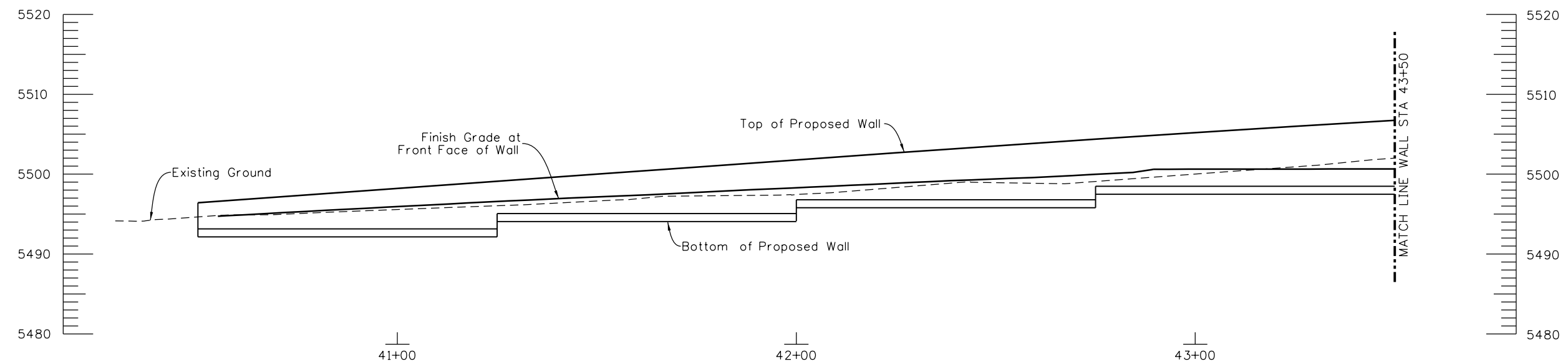
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PLAN



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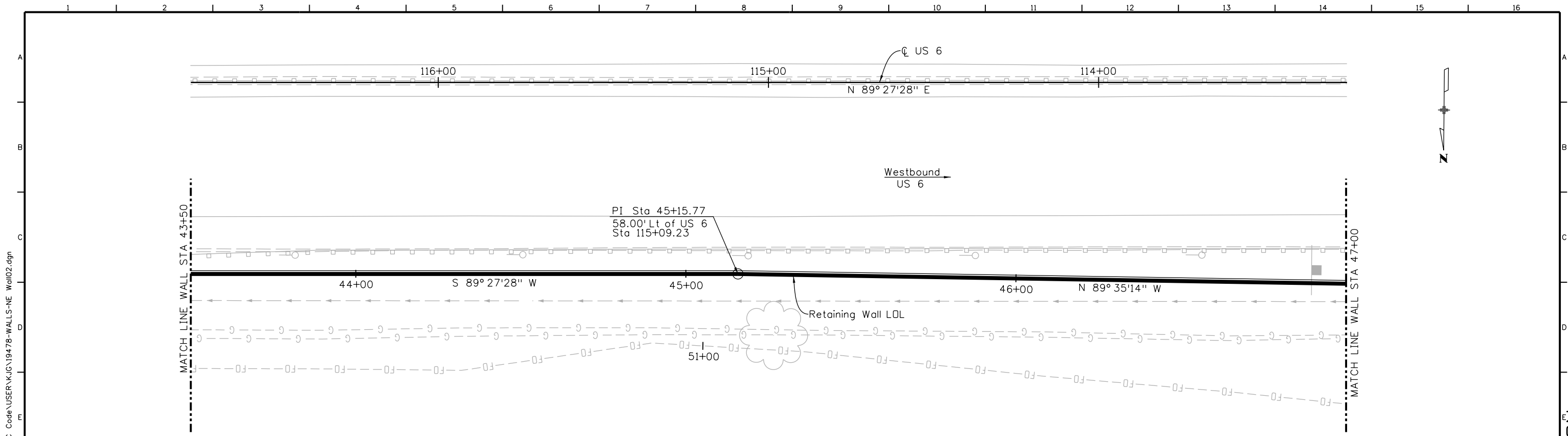
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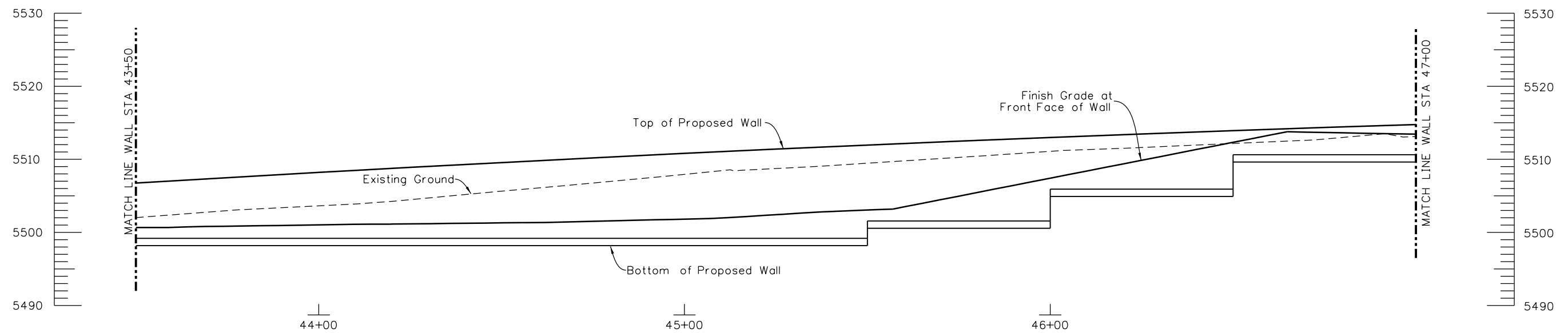
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19478
Sheet Number 79

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Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

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Revised:
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**NORTHEAST RETAINING WALL
 GENERAL LAYOUT
 2 OF 3**

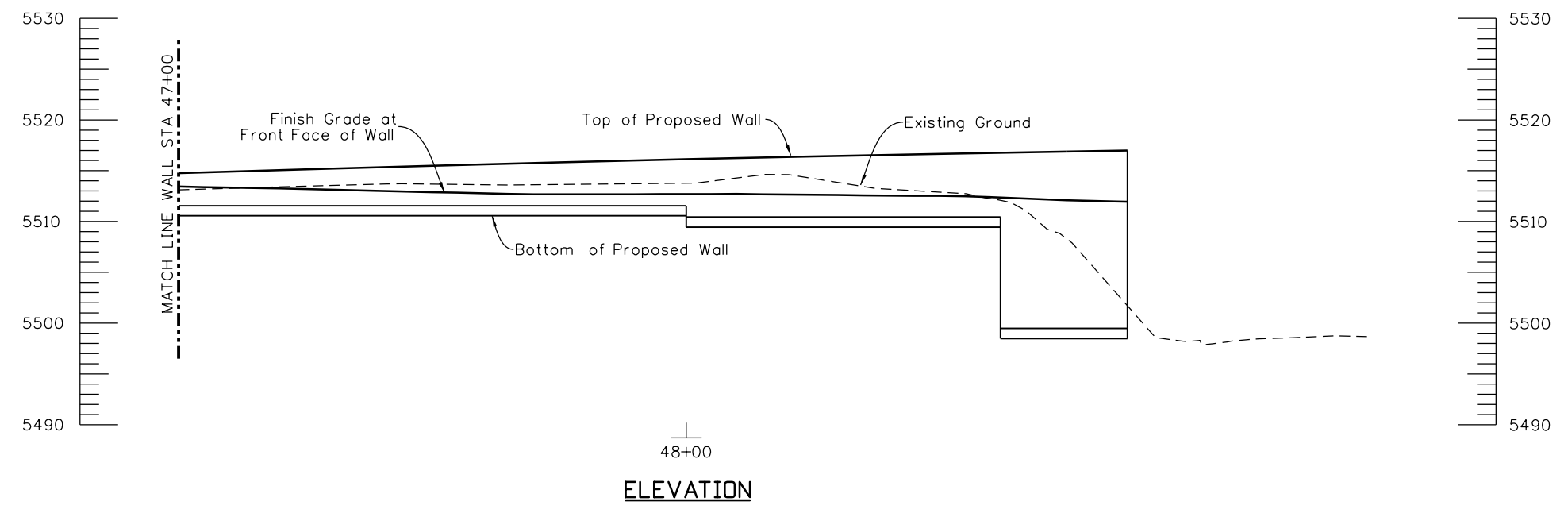
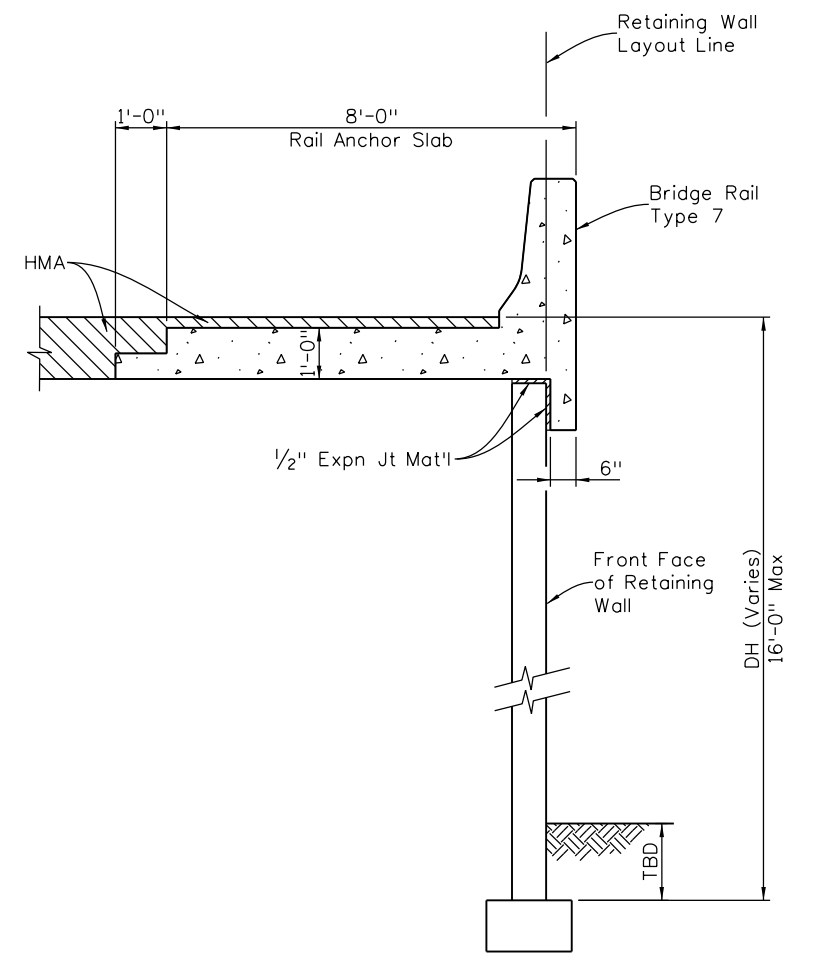
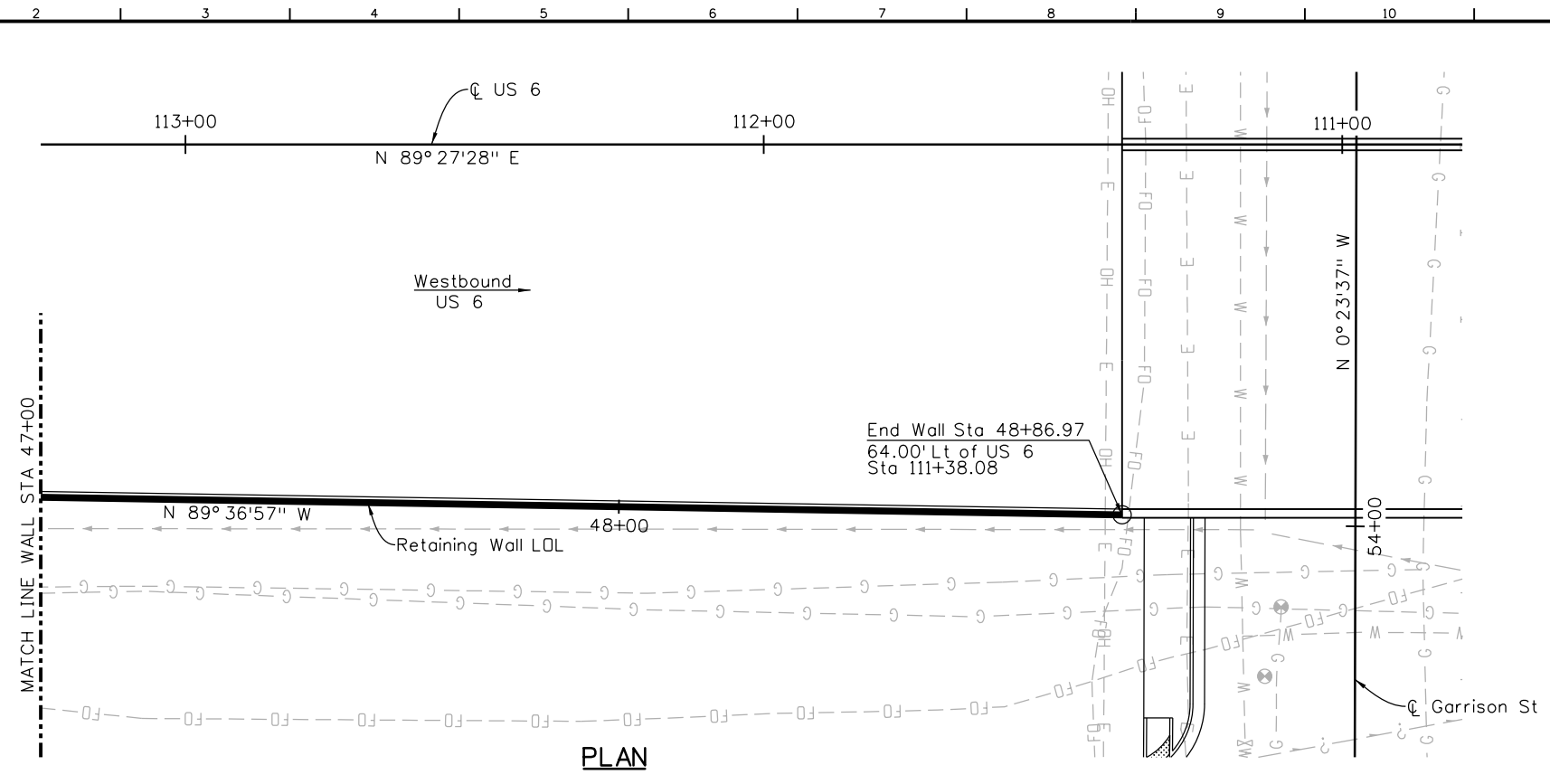
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Project No./Code
FBR 0063-046
19478
Sheet Number 80

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POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

kristi.gemperline 4:30:01 PM P:\1404429D - 6th & Garrison\Mgmt\Project Info\CH2Mhill\Projectwise Info\473244-US6Garrison\JPC Code\USER\KJG\19478-WALLS-NE Wall03.dgn



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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 Staff Bridge Branch: Unit 0224 Unit Leader: AJP

Sheet Revisions		
Date:	Comments	Init.

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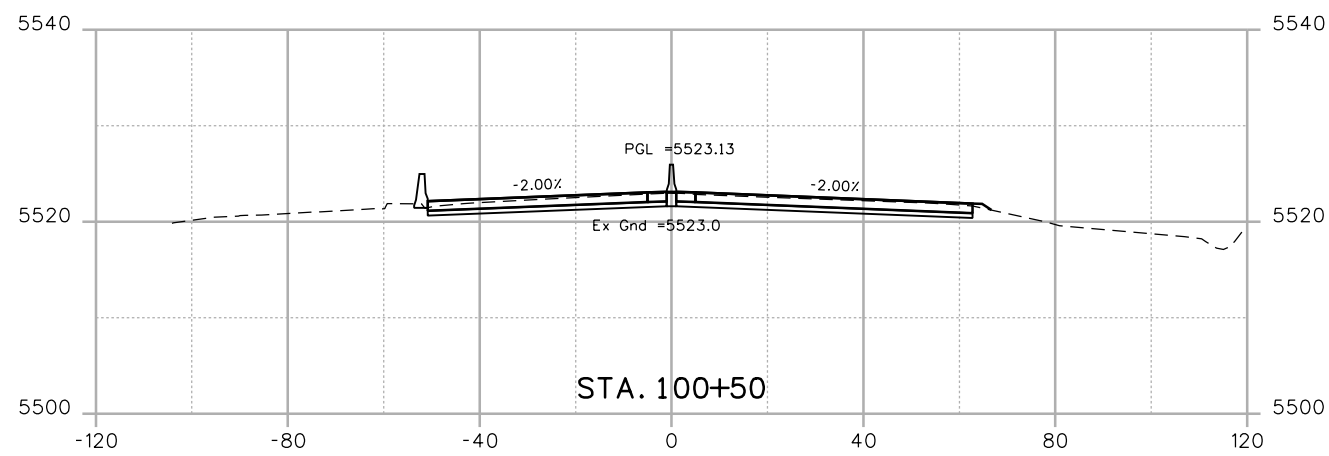
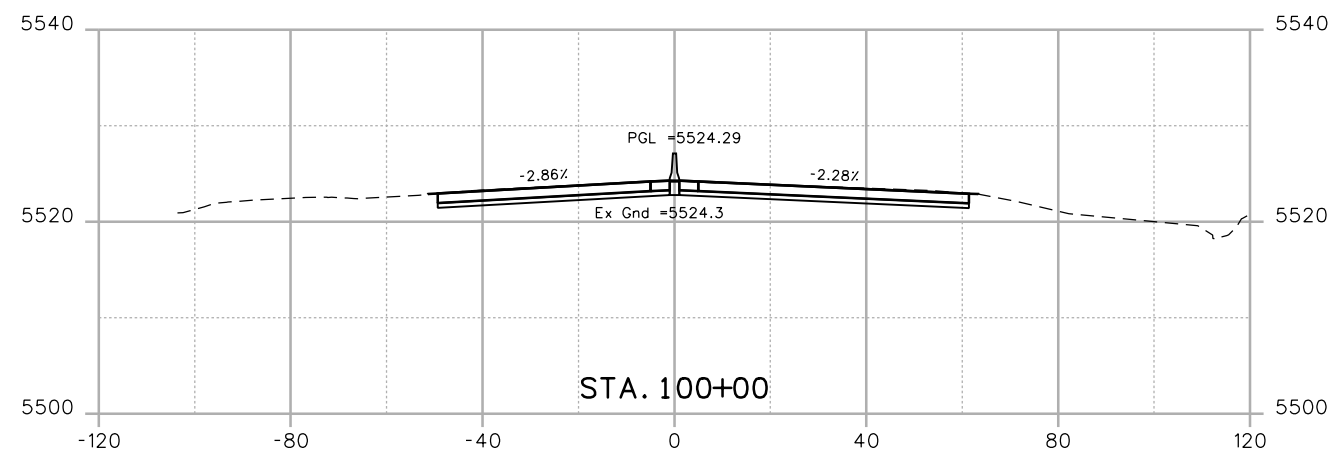
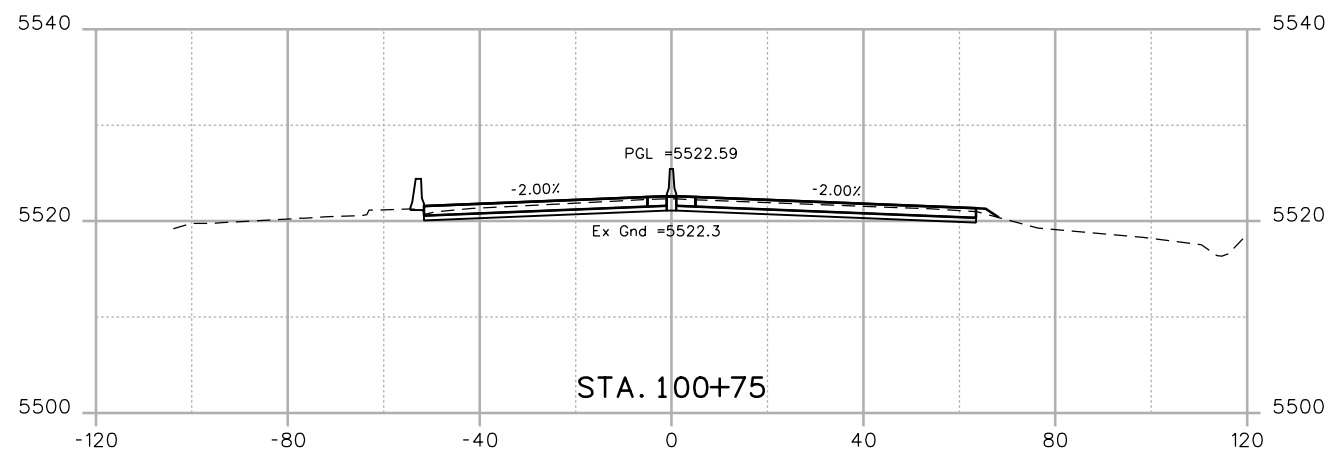
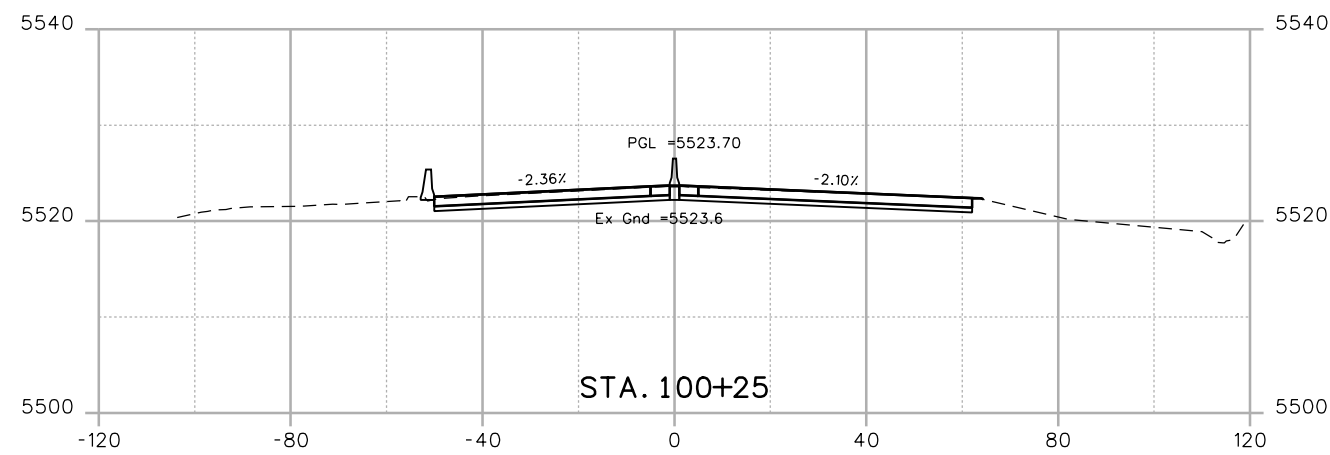
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NORTHEAST RETAINING WALL
GENERAL LAYOUT
3 OF 3
 Designer:
 Detailer:
 Sheet Subset: Walls Subset Sheets: W10 of 11

Project No./Code
 FBR 0063-046
 19478
Sheet Number 81

POST FIR SUBMITTAL - NOT FOR CONSTRUCTION

kristi.gempierline 4:30:02 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-XSEC01.dgn



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

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

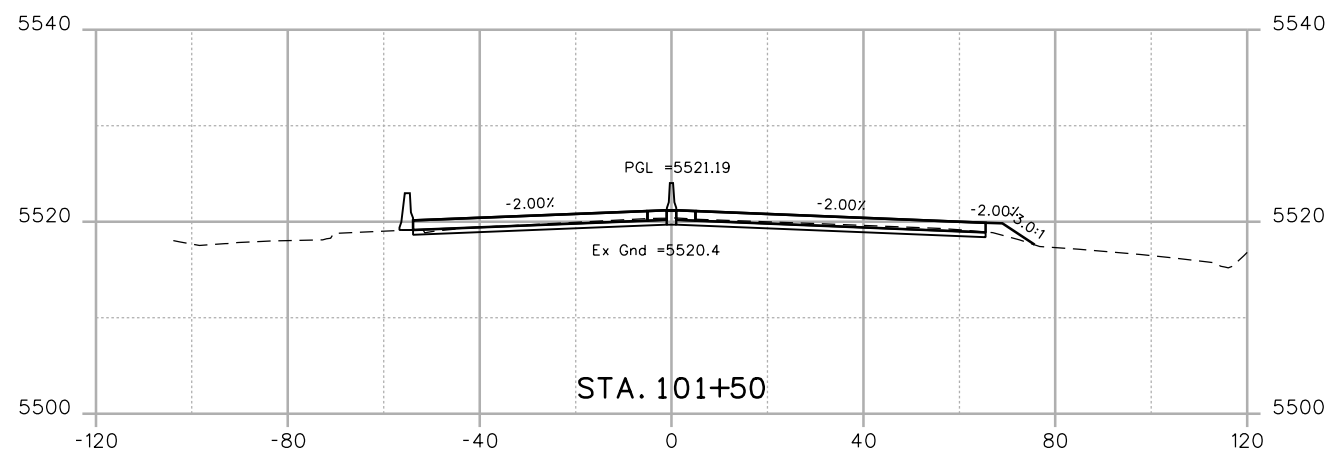
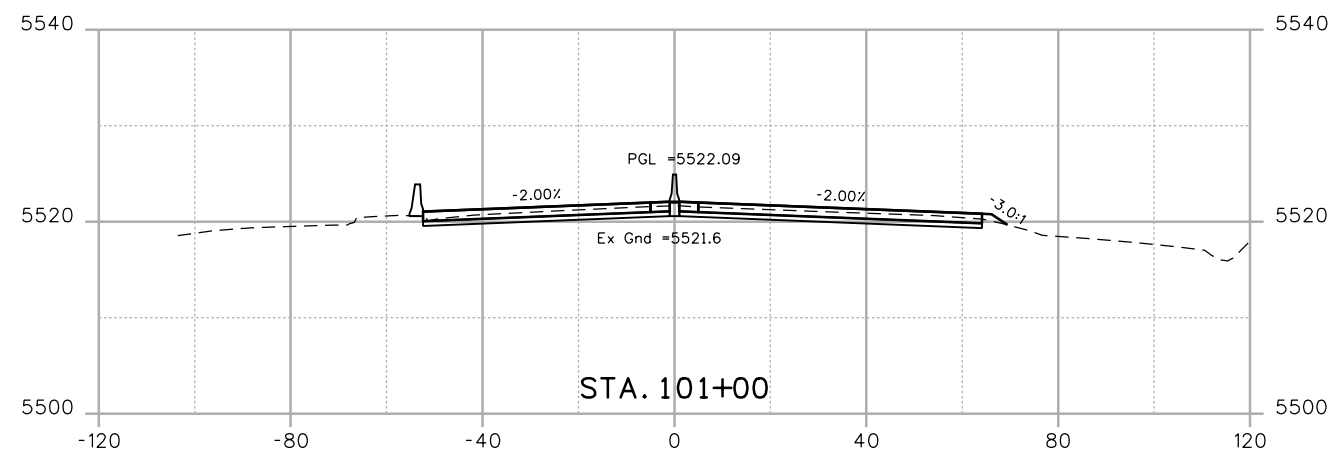
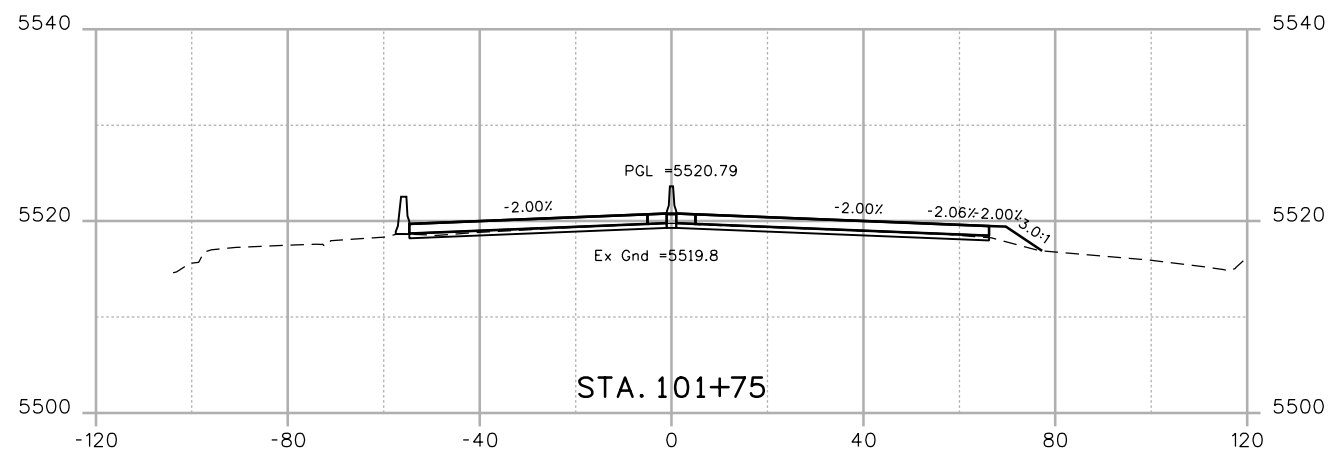
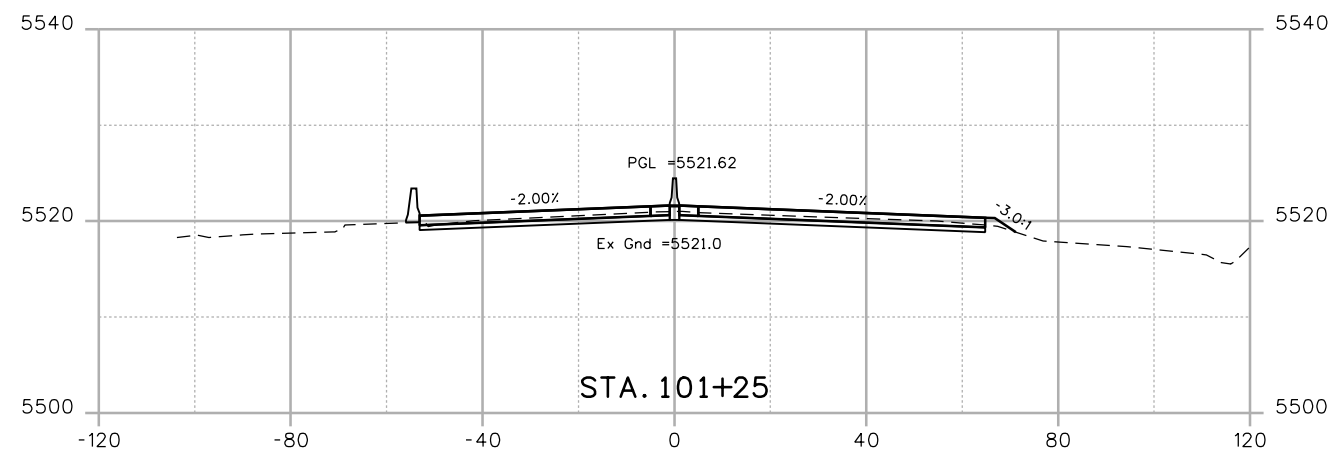
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Designer:	CH	Structure	
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Project No./Code
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19478
Sheet Number 82

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Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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Region 1 KPB

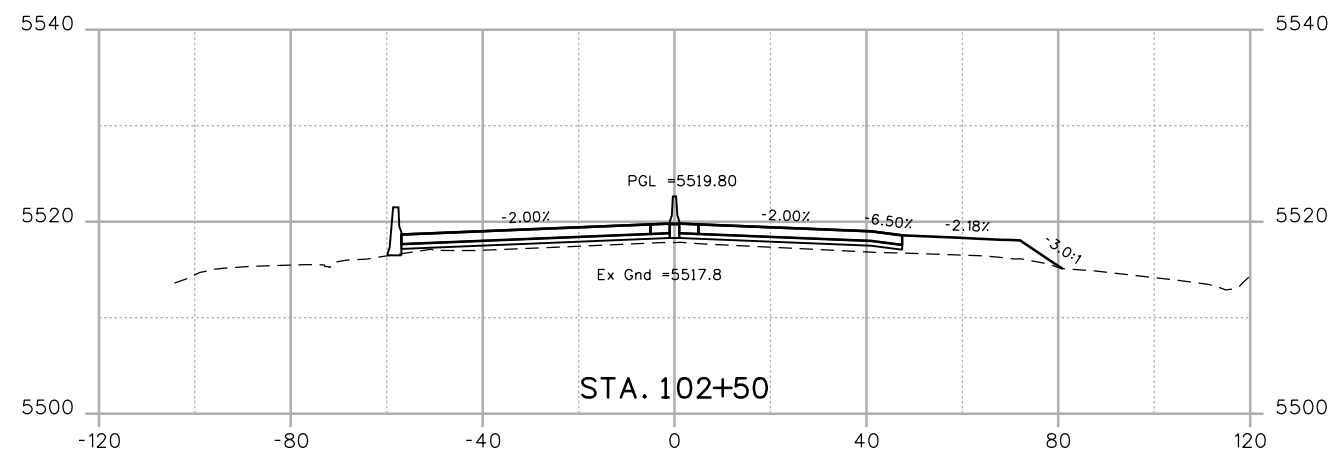
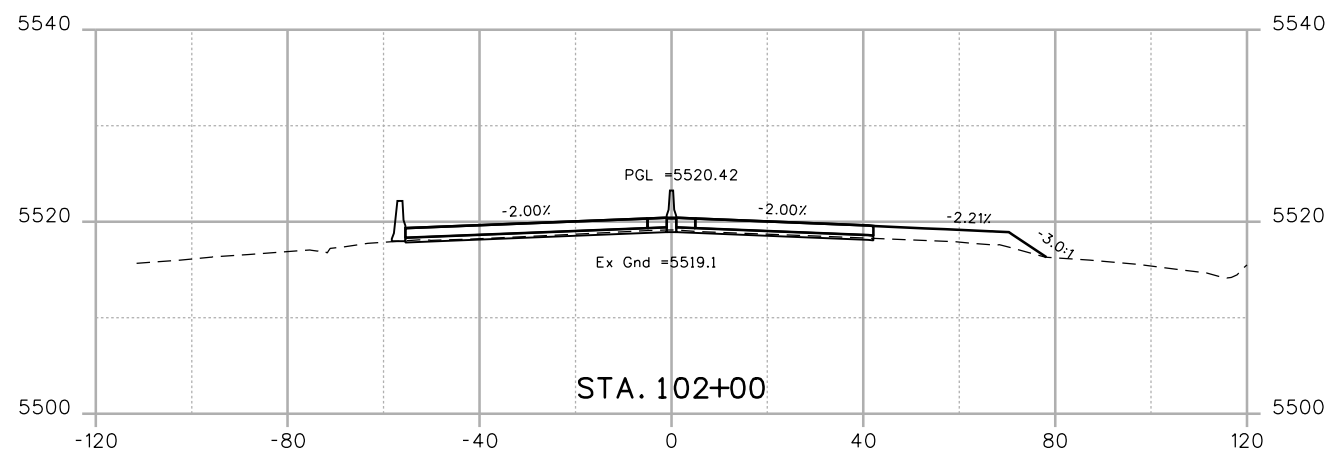
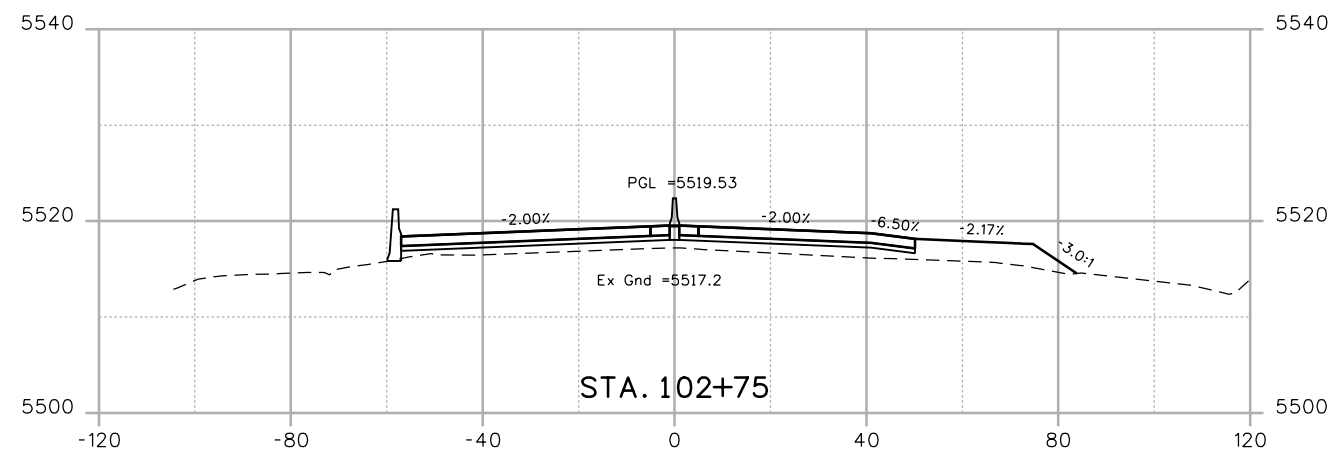
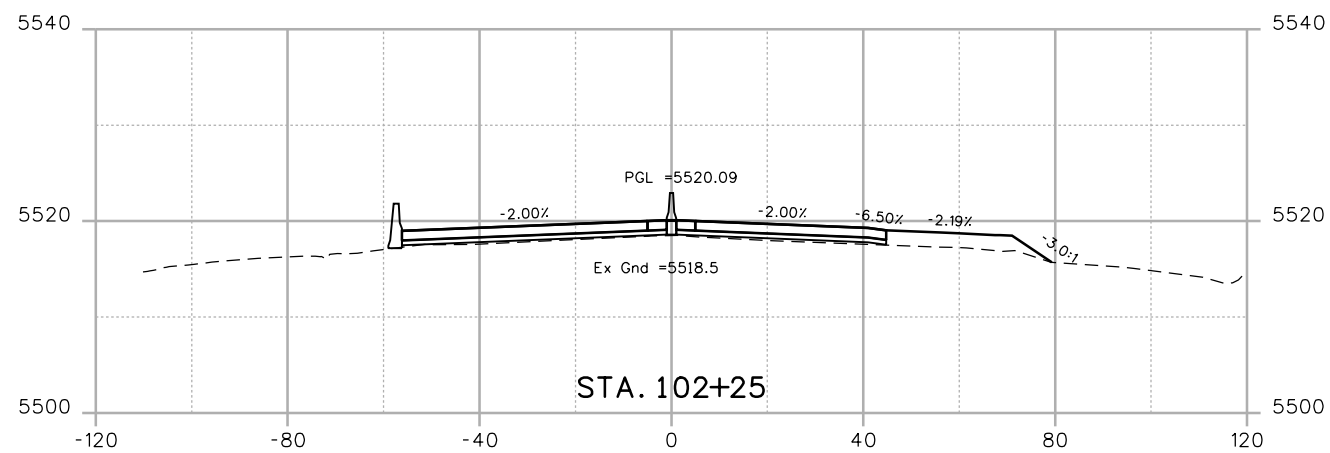
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Project No./Code	?
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Sheet Number	83

WORK IN PROGRESS

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Sheet Revisions		
Date:	Comments	Init.

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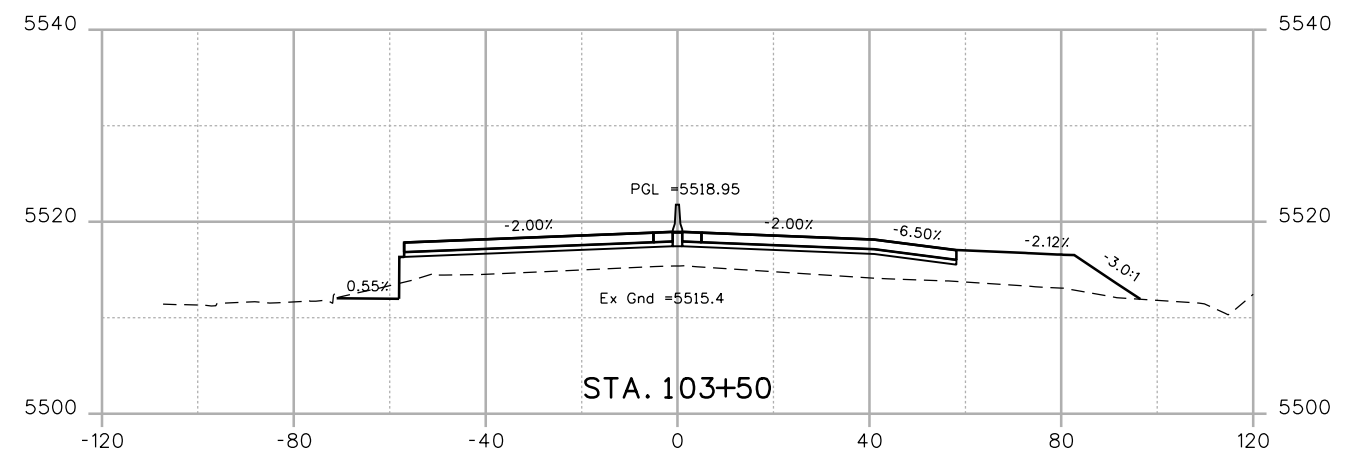
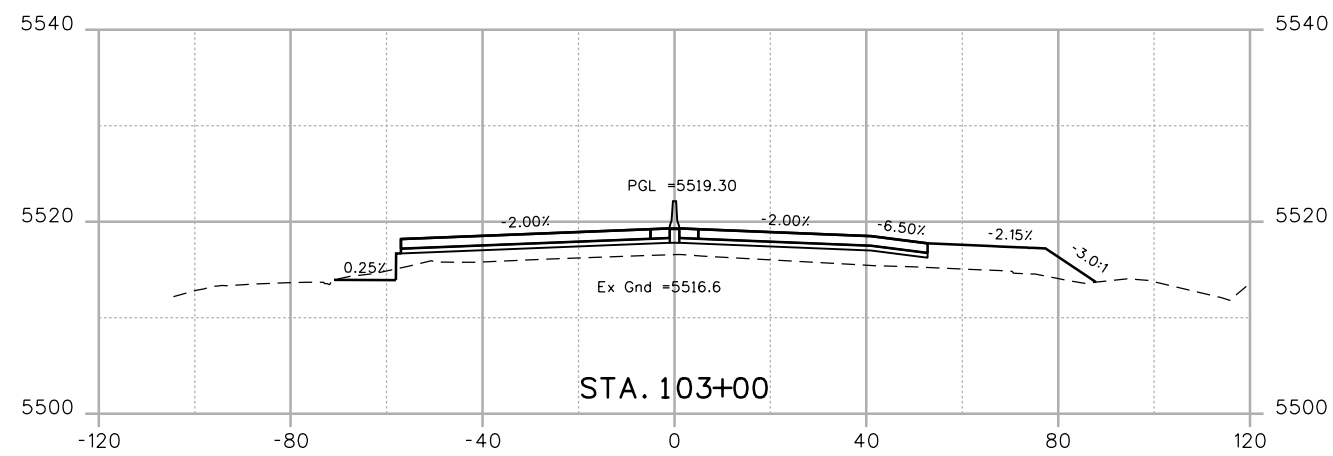
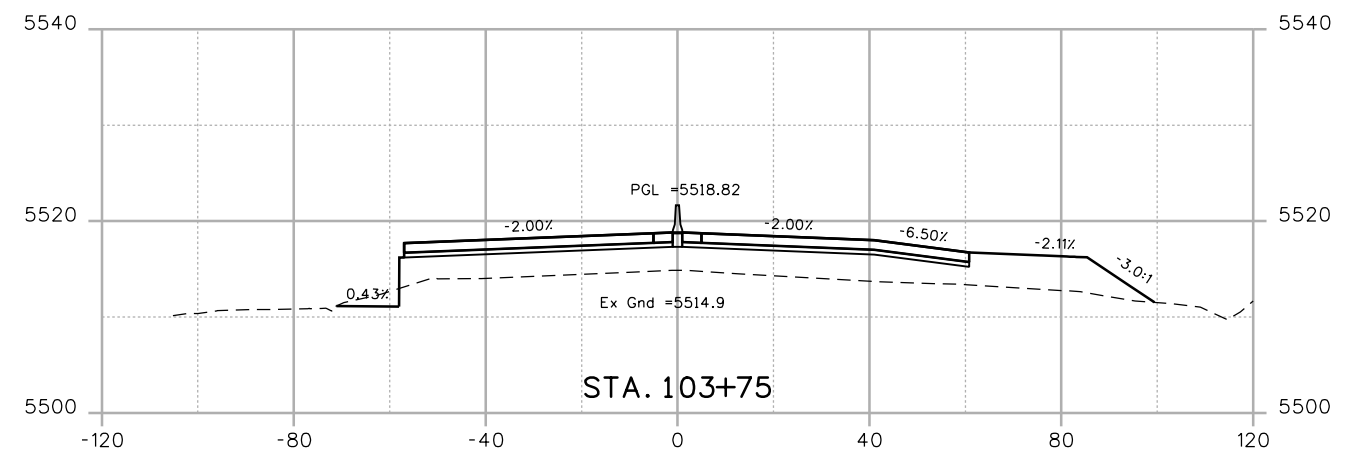
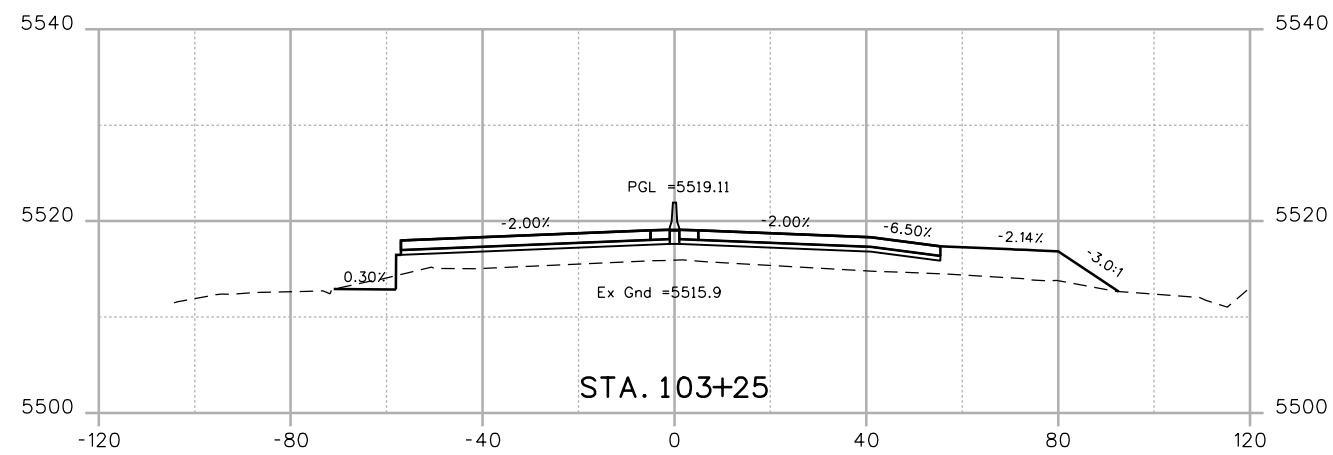
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Project No./Code
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 Sheet Number **84**



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

Sheet Revisions		
Date:	Comments	Init.

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Region 1 KPB

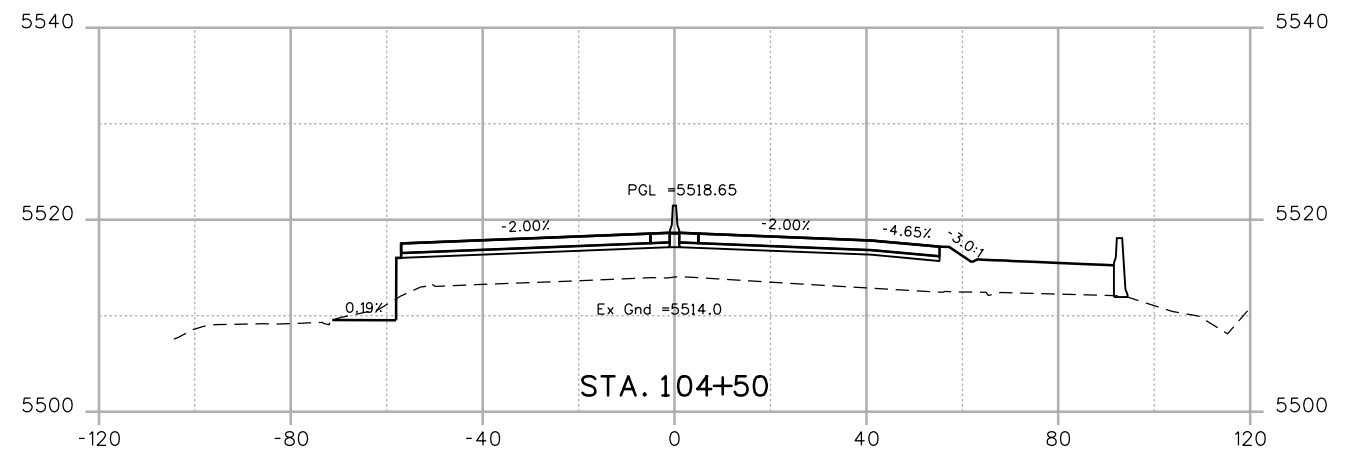
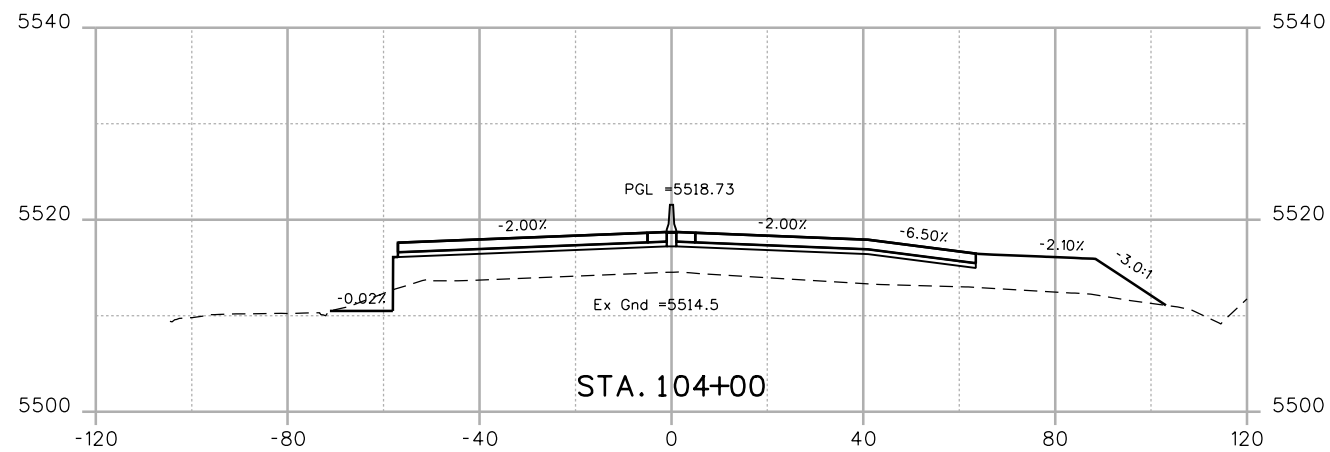
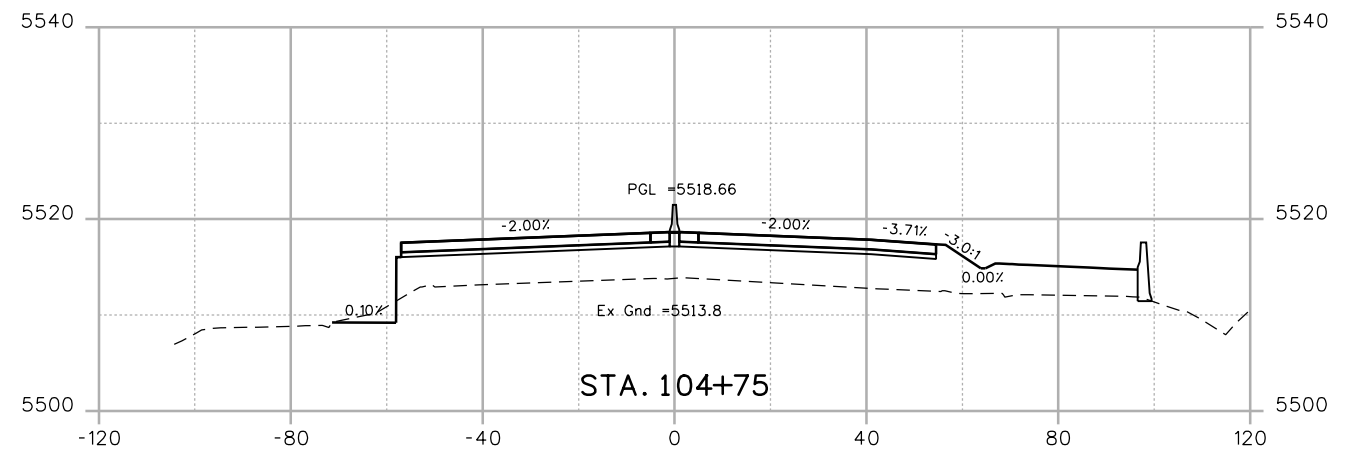
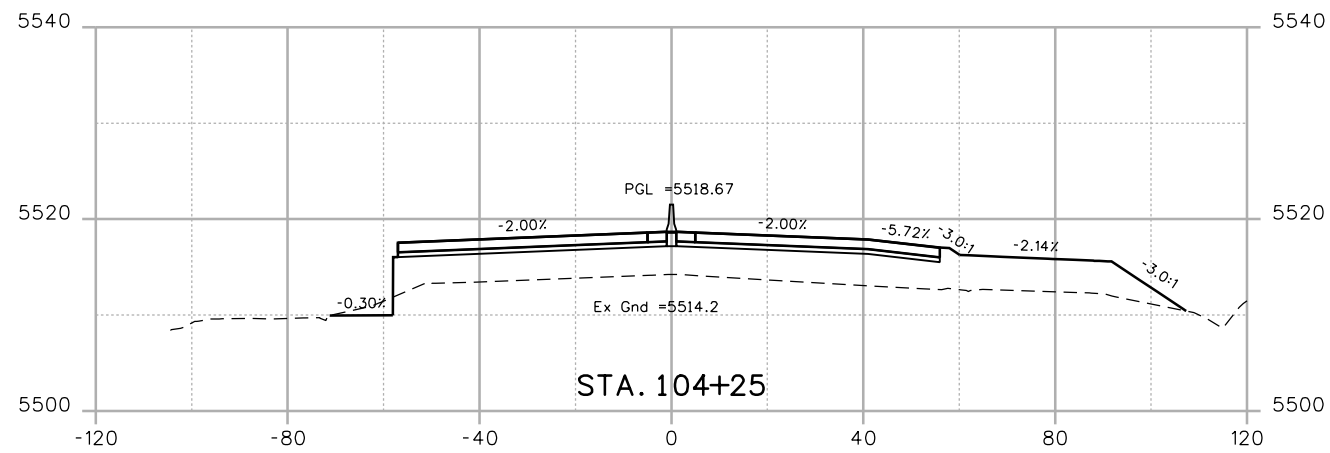
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Project No./Code	?
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Sheet Number	85

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Horiz. Scale: 1:40	Vert. Scale:
Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

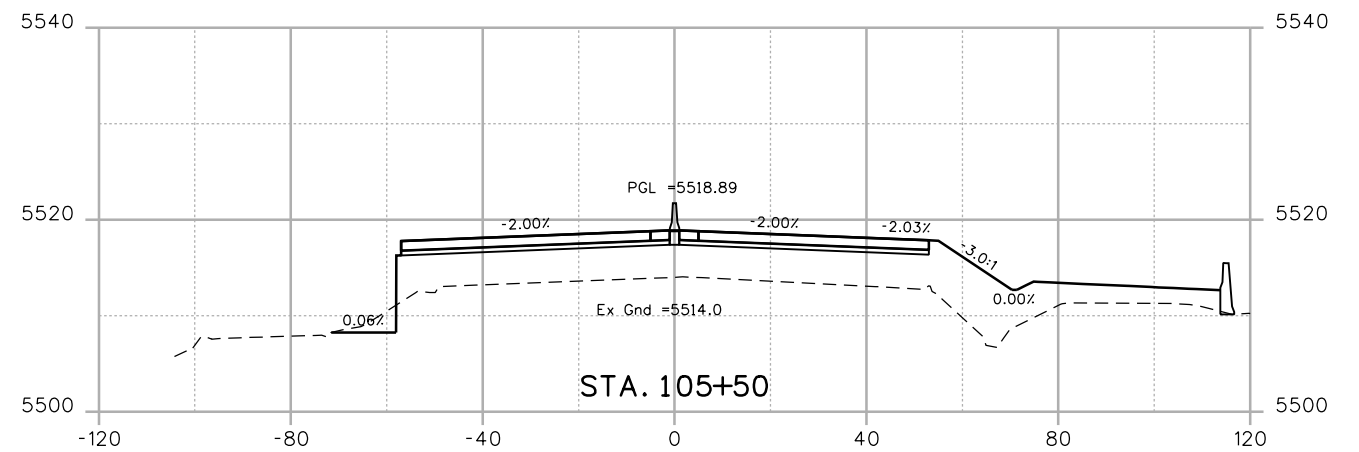
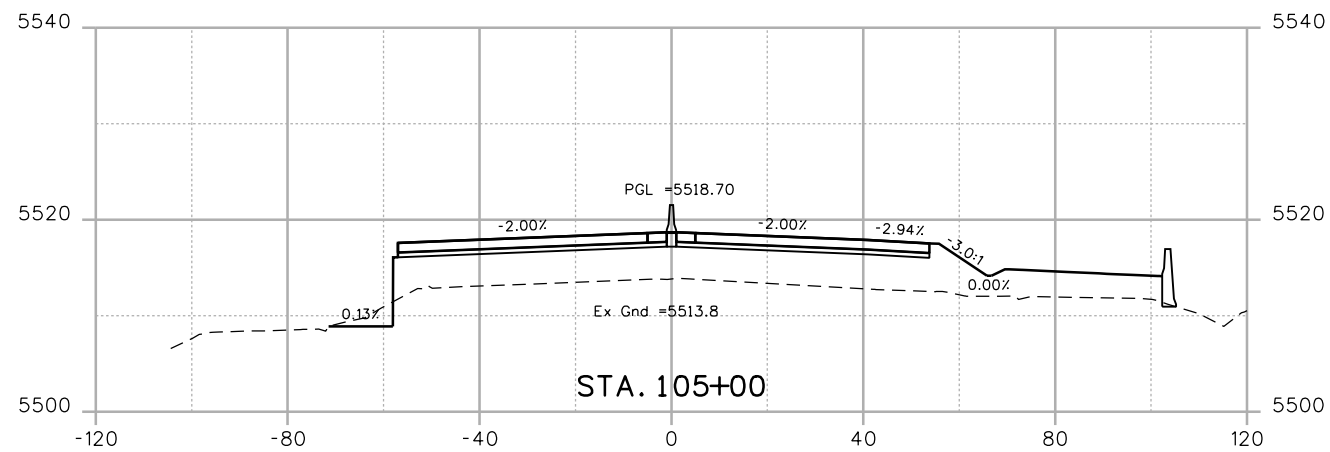
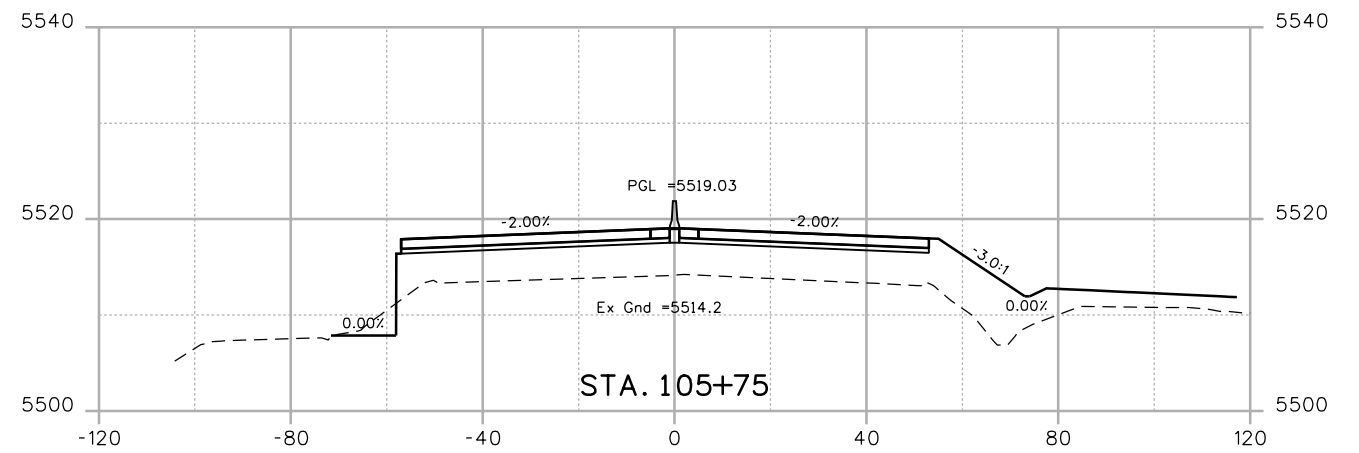
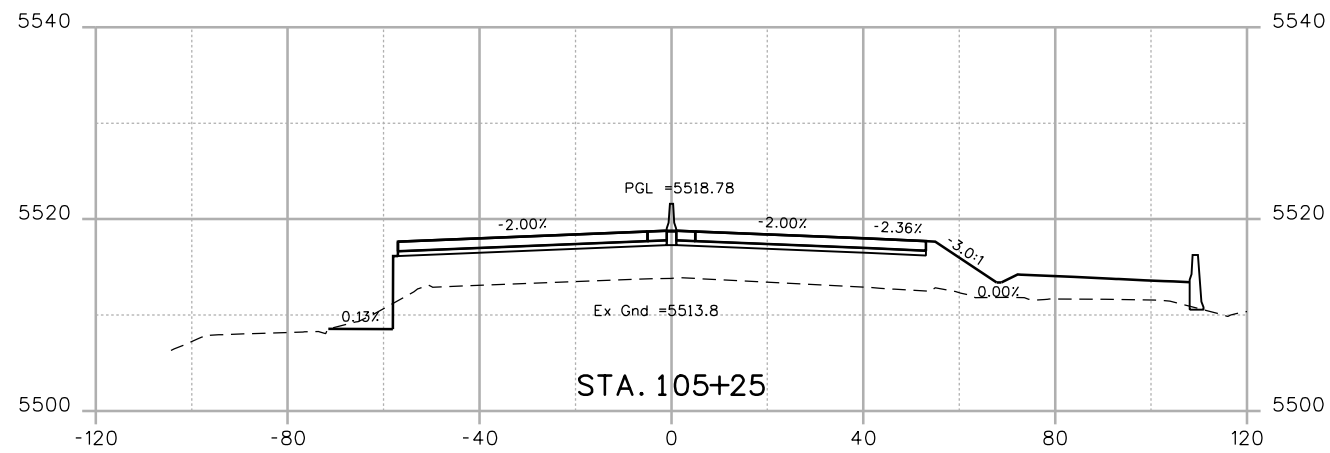
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Project No./Code
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19478
Sheet Number 86

WORK IN PROGRESS


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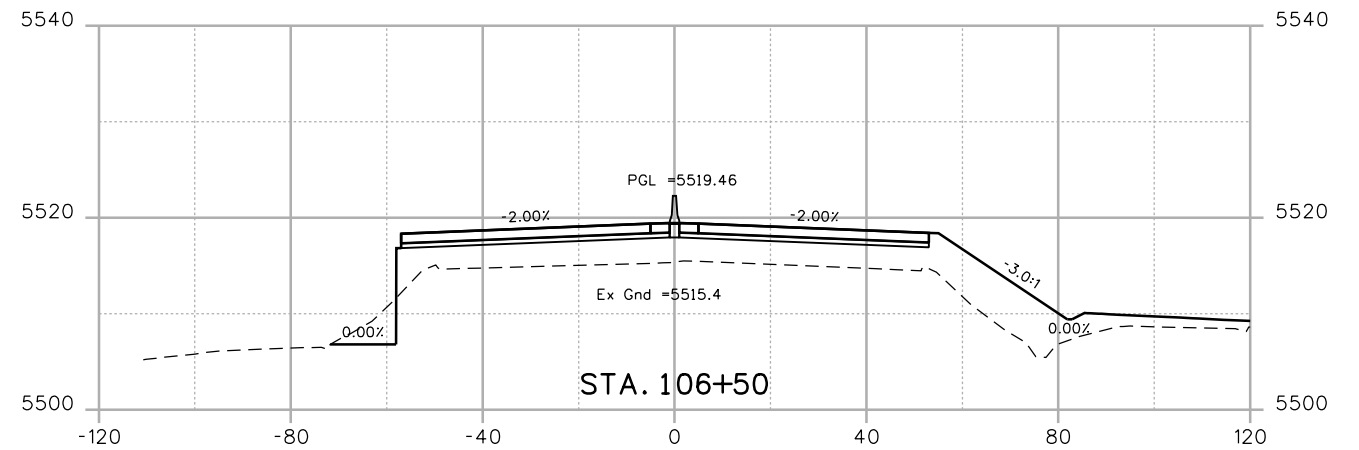
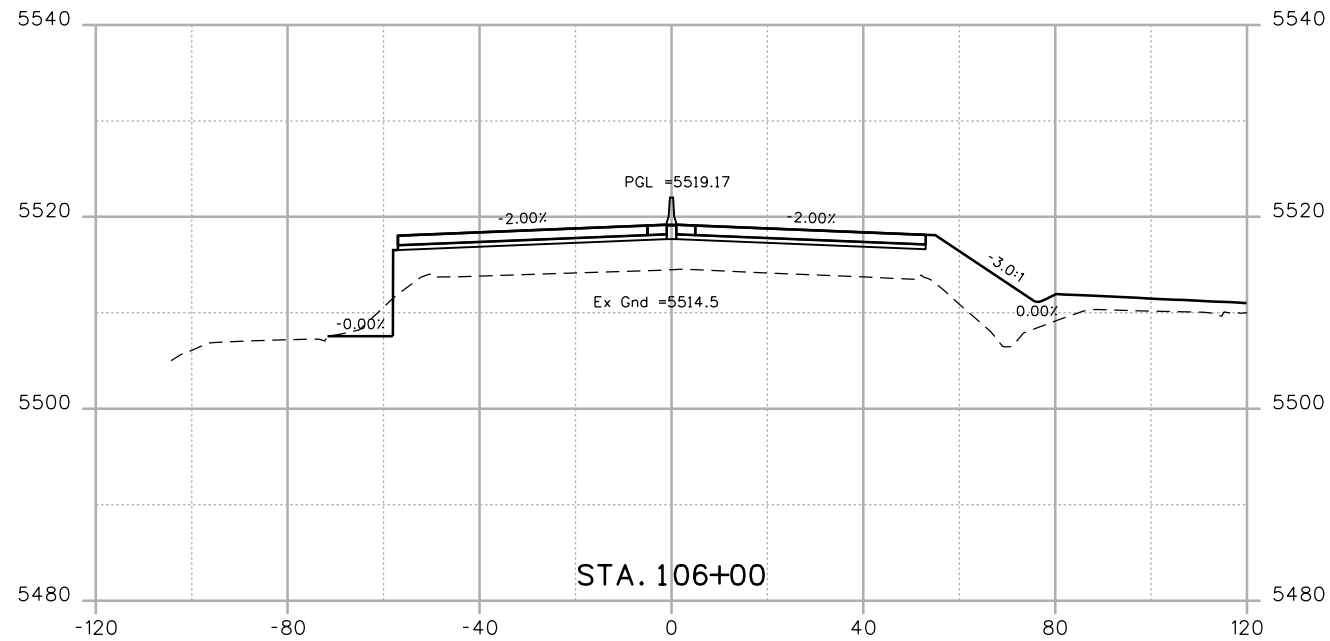
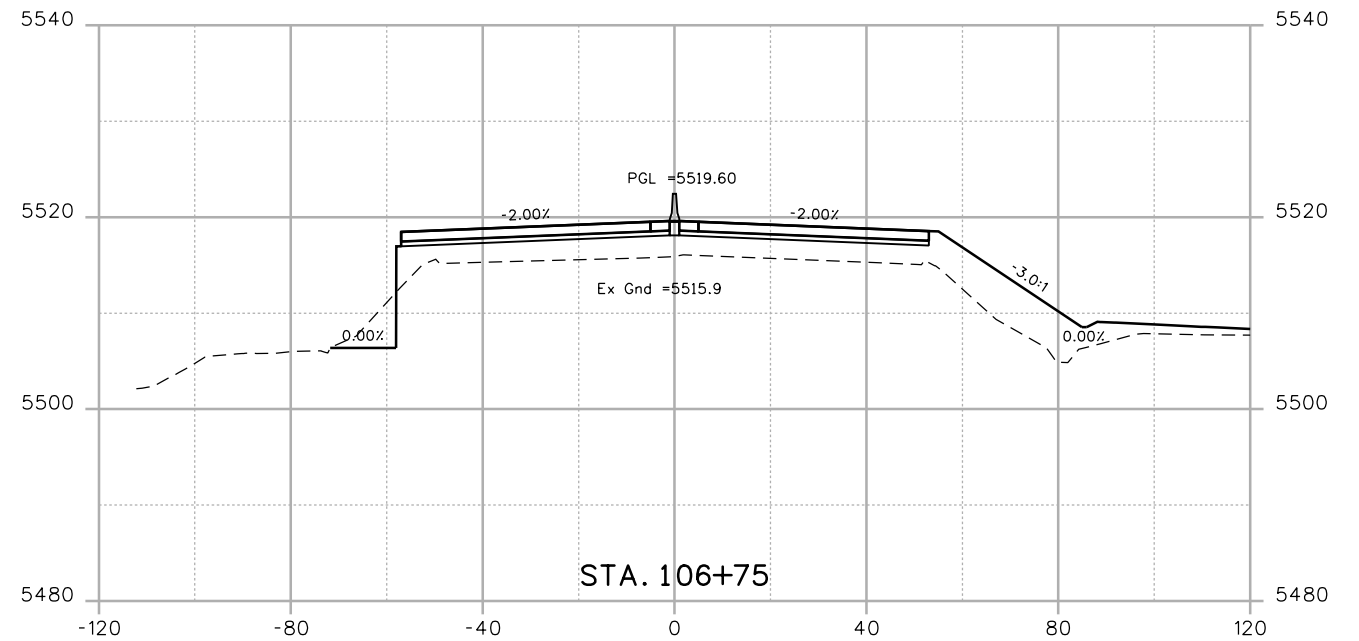
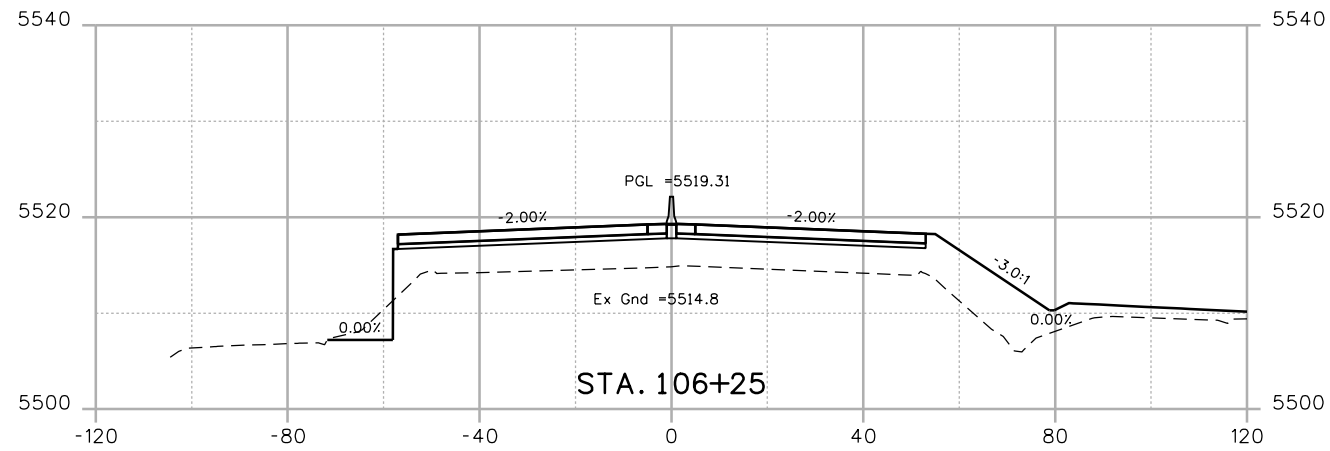
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As Constructed	CROSS SECTIONS US 6		Project No./Code
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Horiz. Scale: 1:40 Vert. Scale:
Unit Information Unit Leader



Sheet Revisions		
Date:	Comments	Init.

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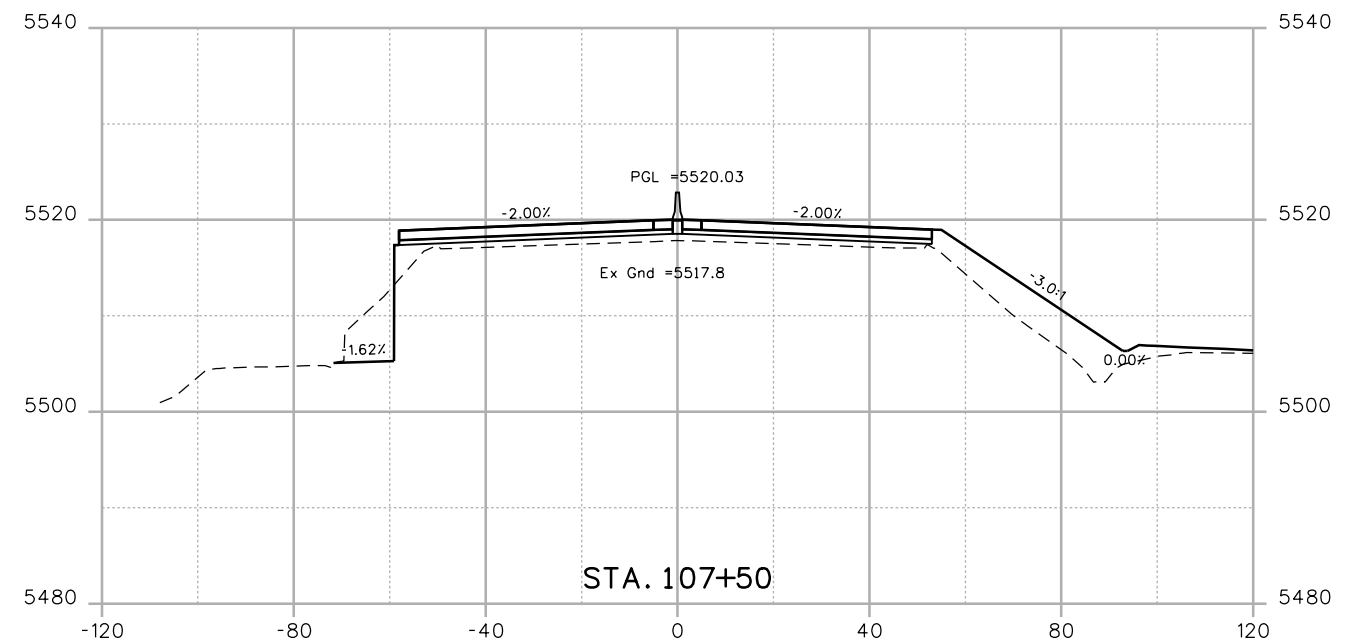
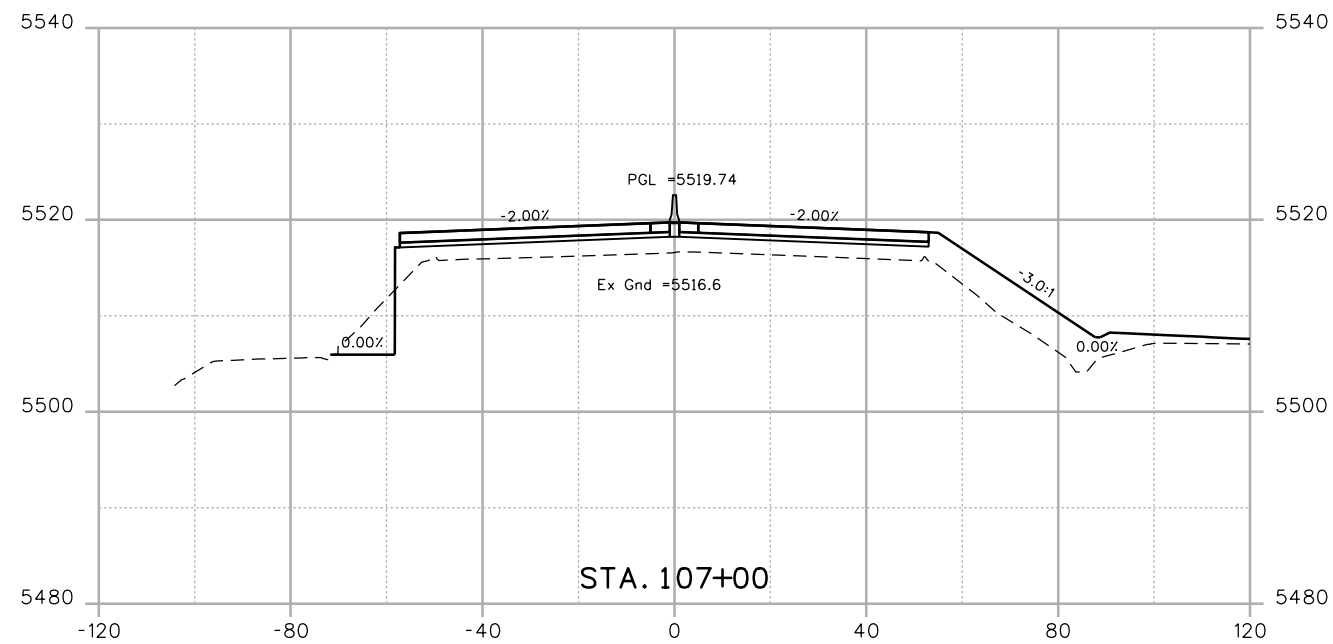
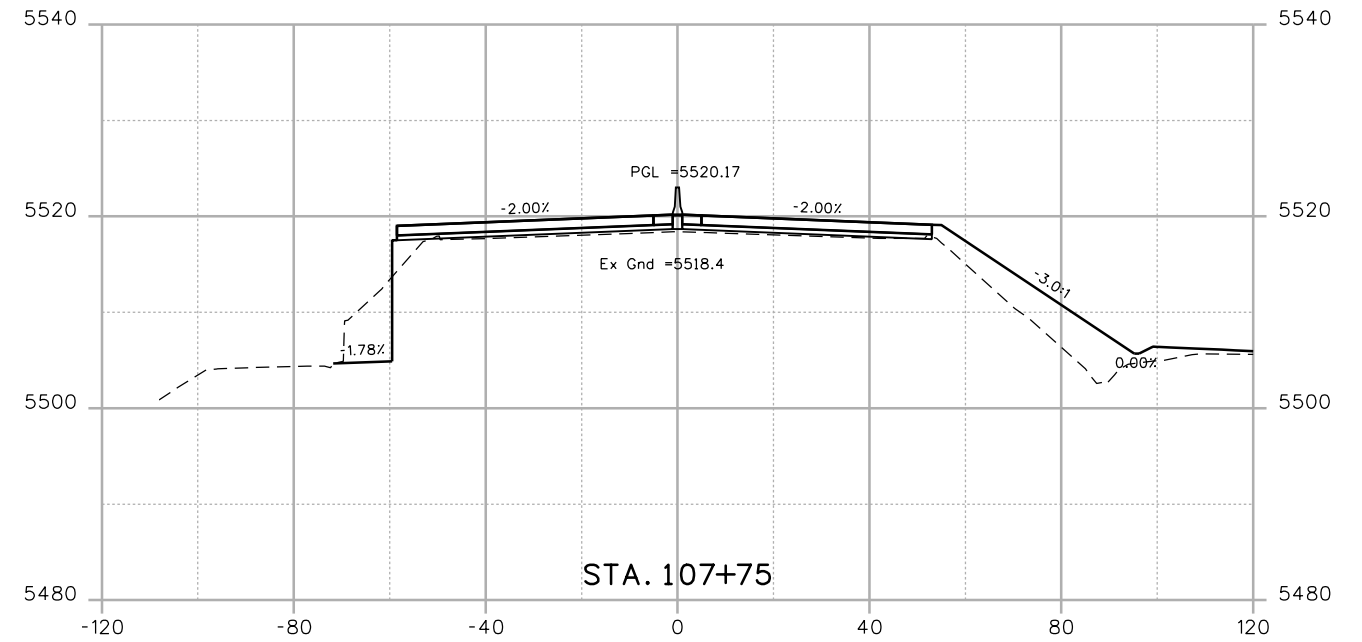
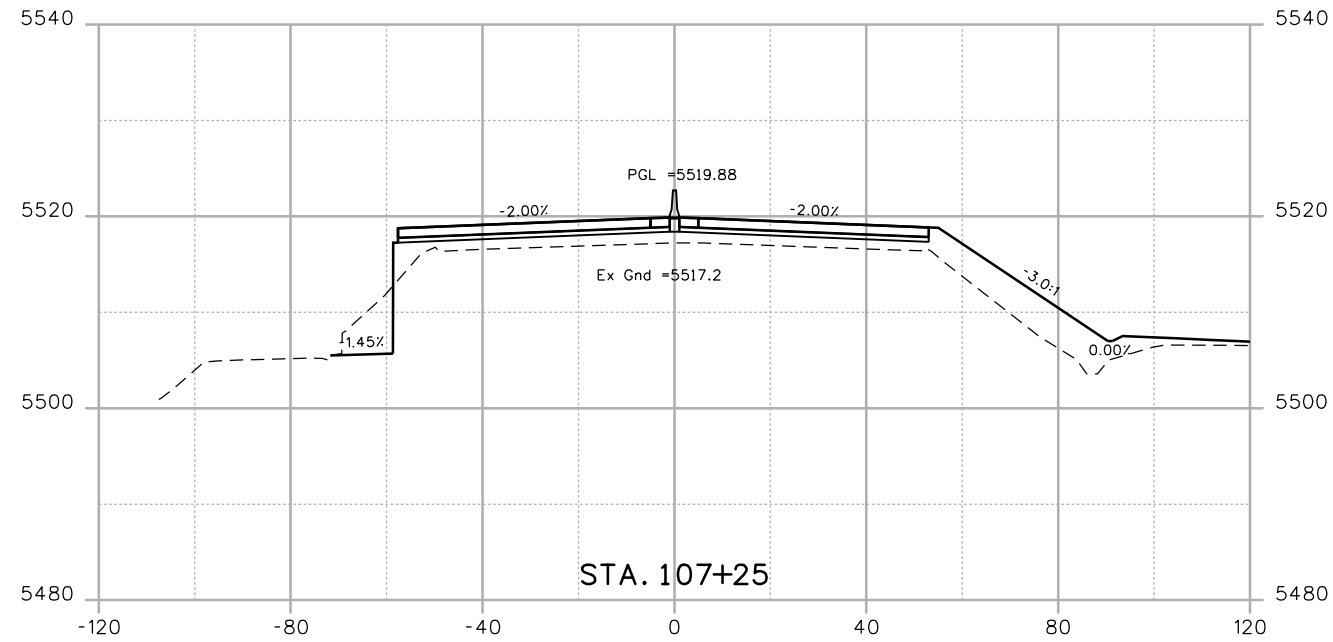
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Project No./Code
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 19478
 Sheet Number **88**

WORK IN PROGRESS


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 Horiz. Scale: 1:40 Vert. Scale:
 Unit Information Unit Leader



Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

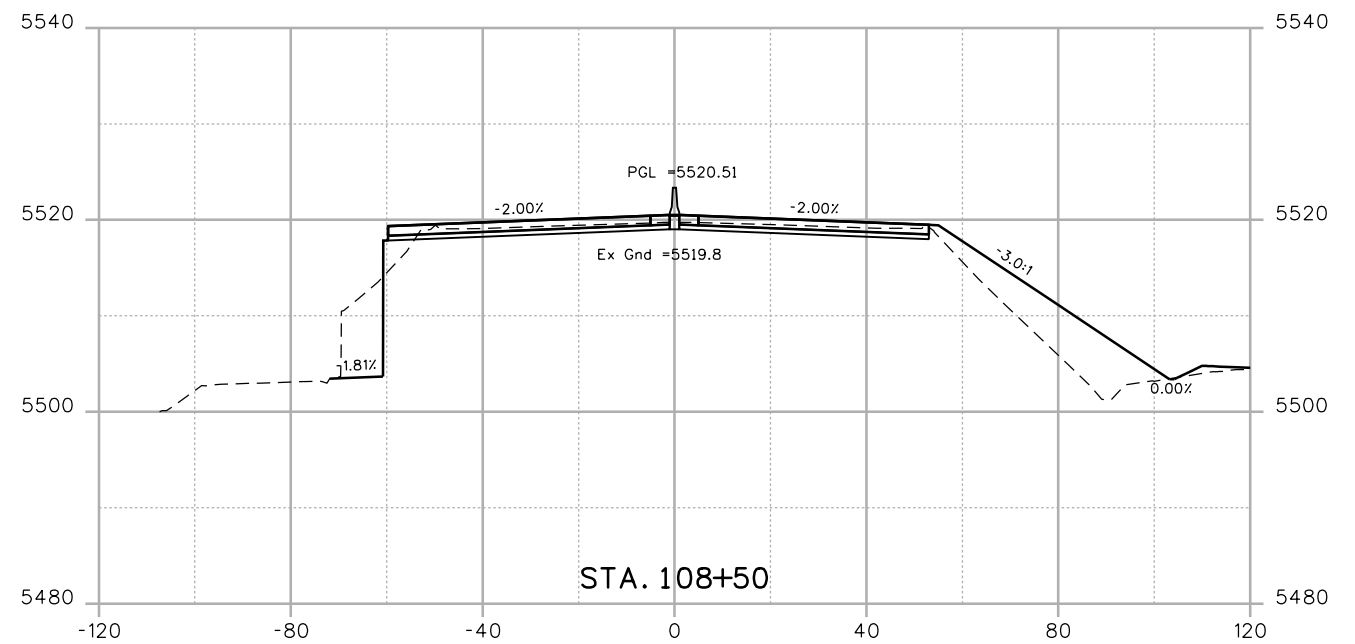
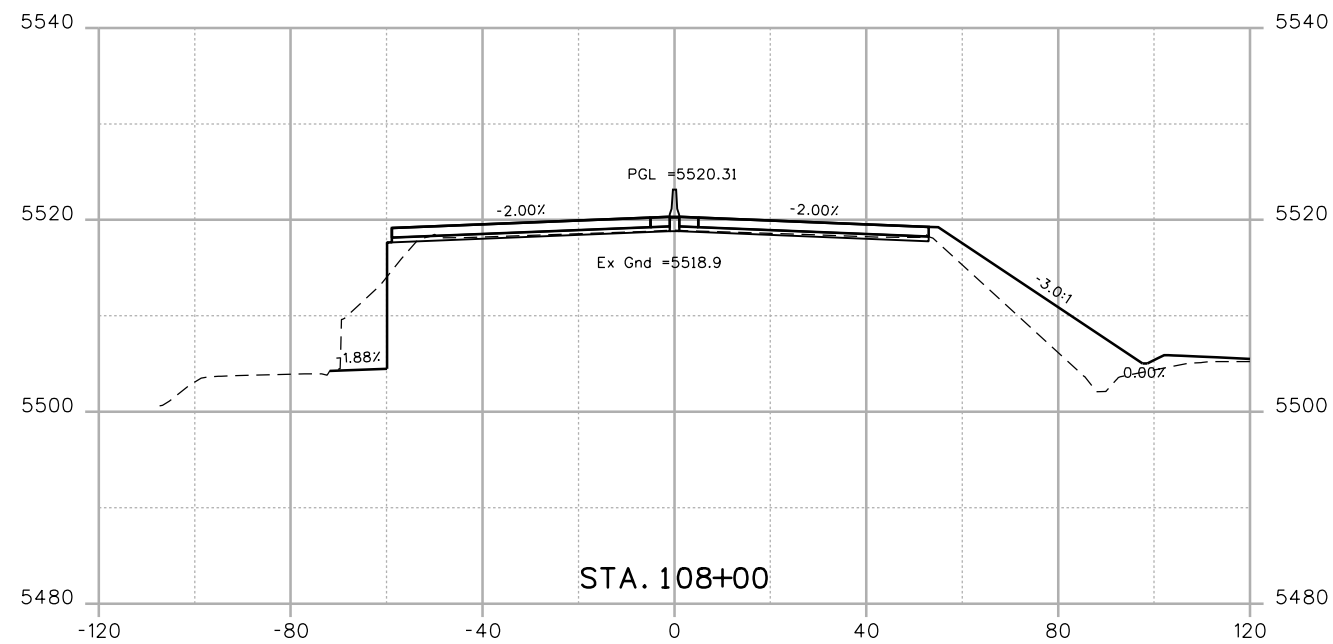
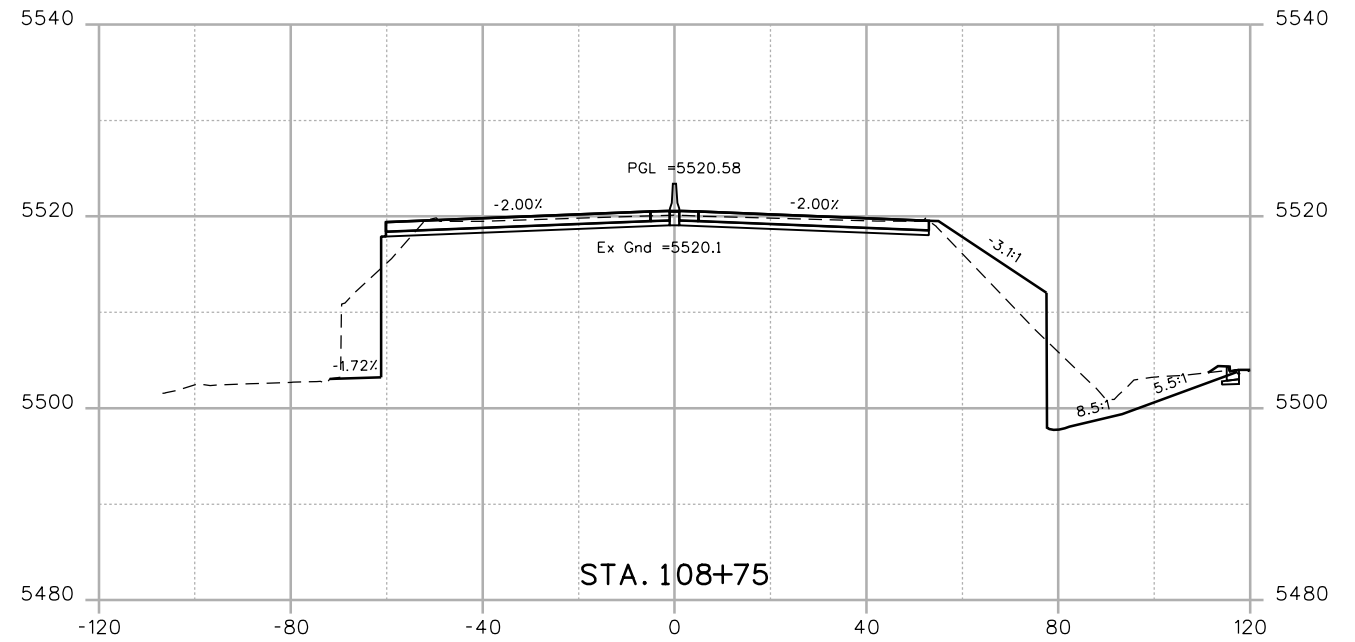
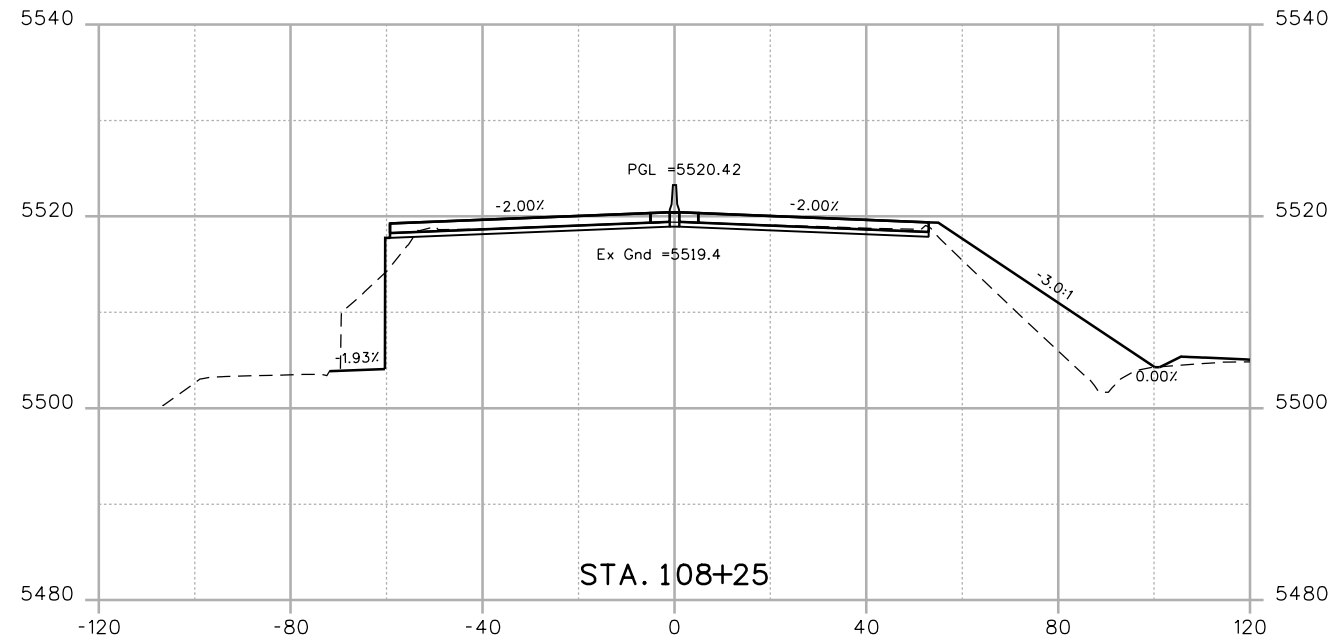
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Project No./Code
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 19478
Sheet Number **89**

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

Sheet Revisions		
Date:	Comments	Init.

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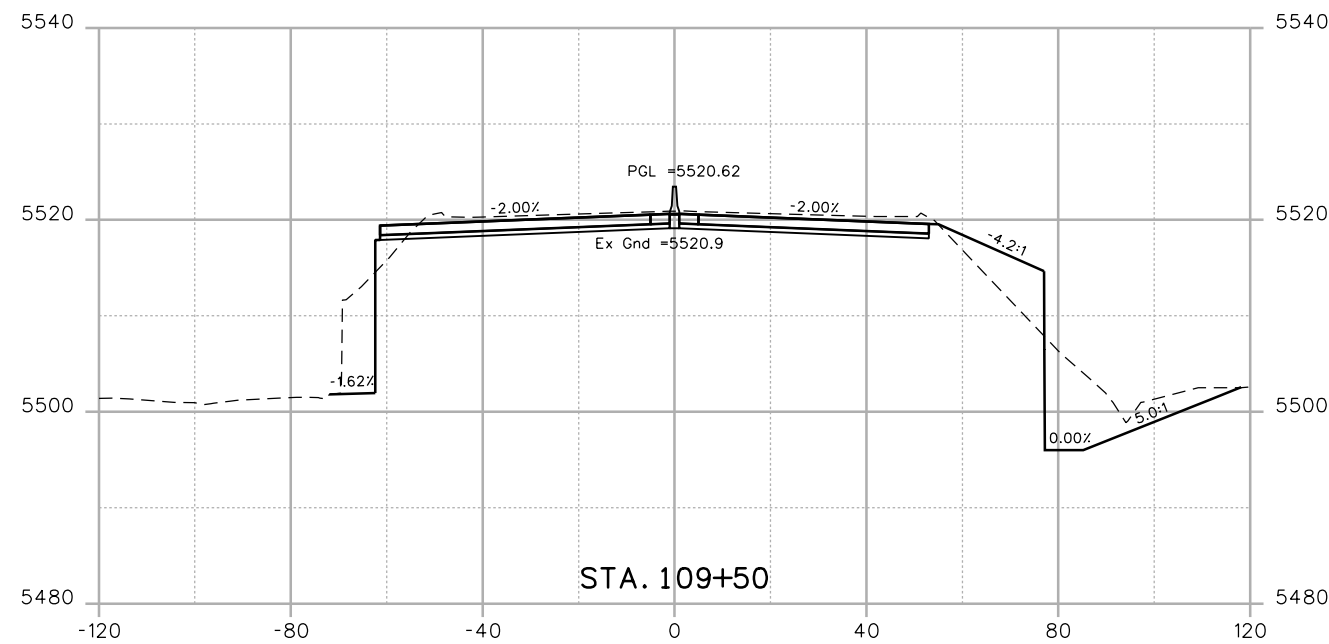
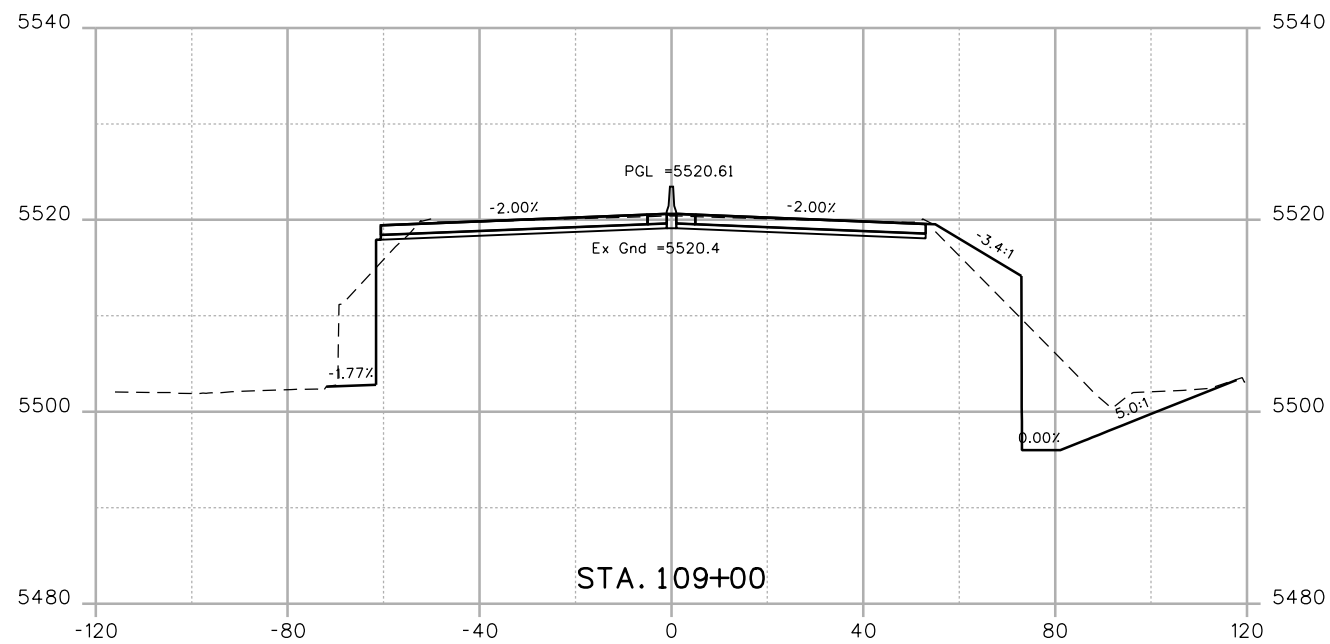
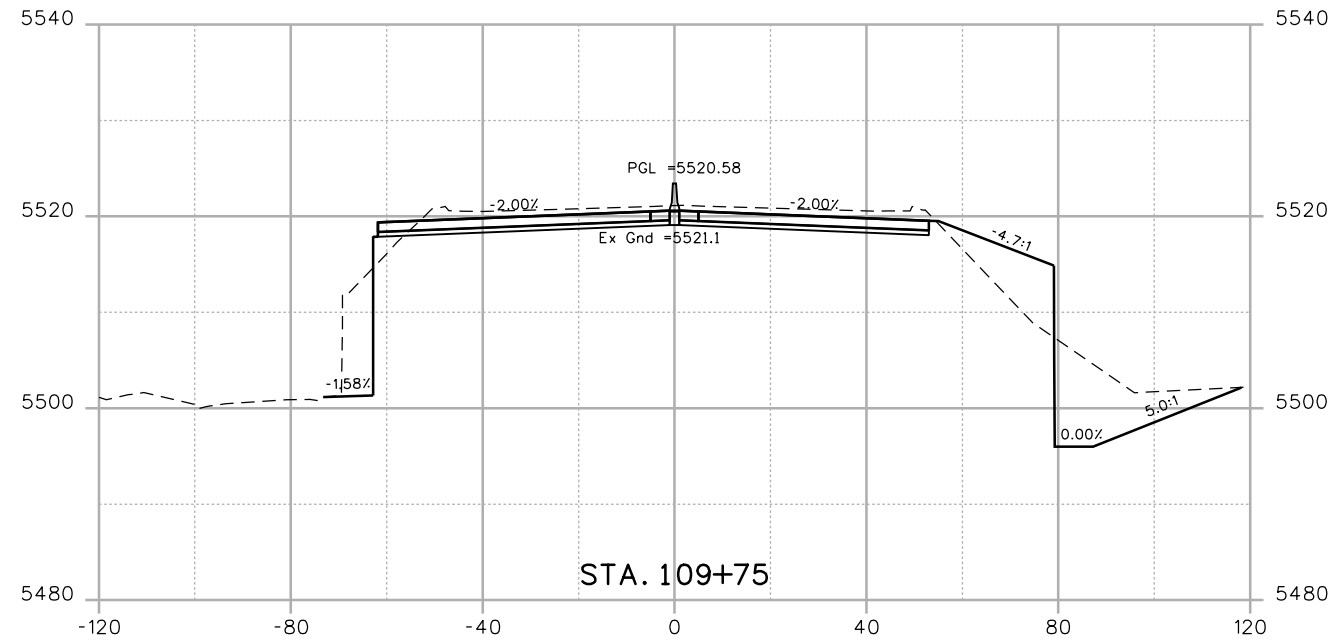
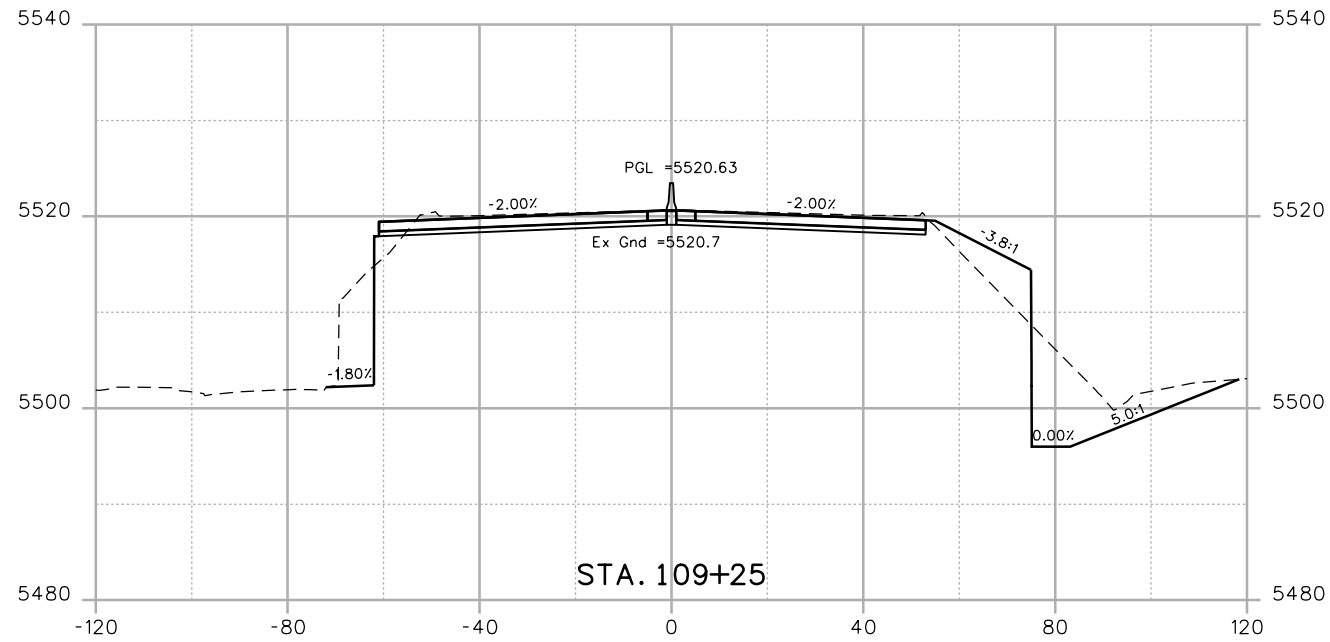
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Project No./Code
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 Sheet Number **90**



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Unit Information	Unit Leader

Sheet Revisions		
Date:	Comments	Init.

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Region 1 KPB

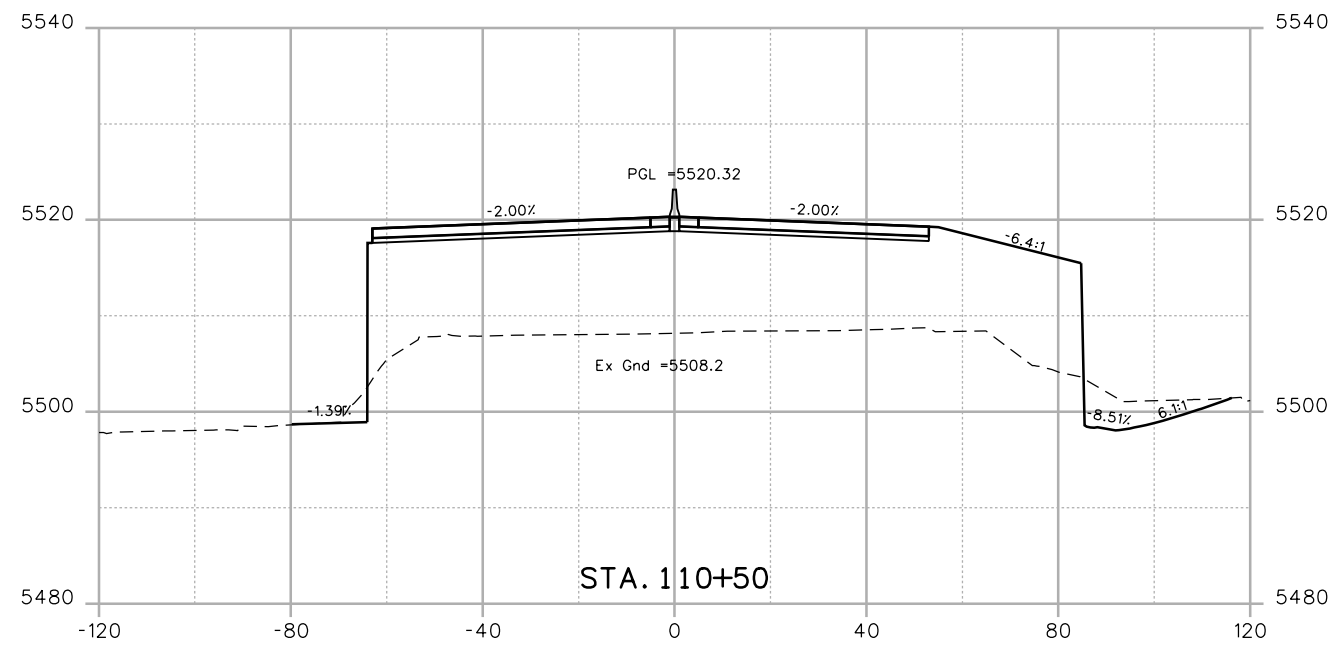
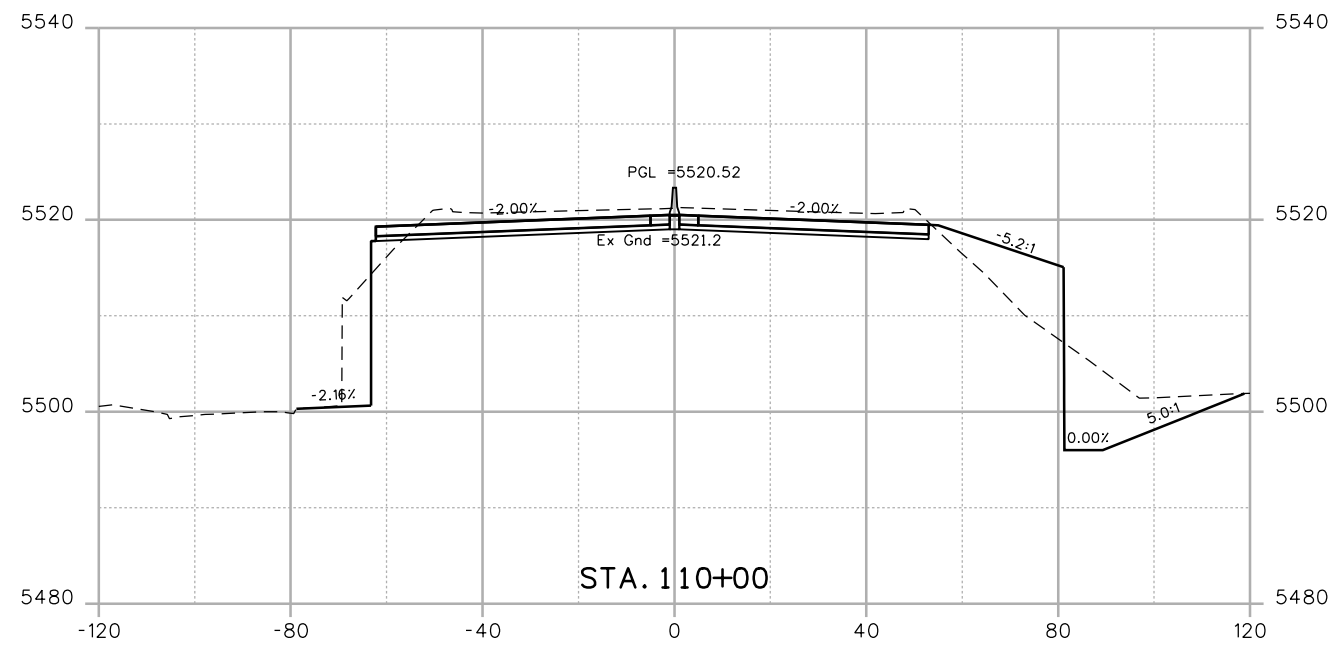
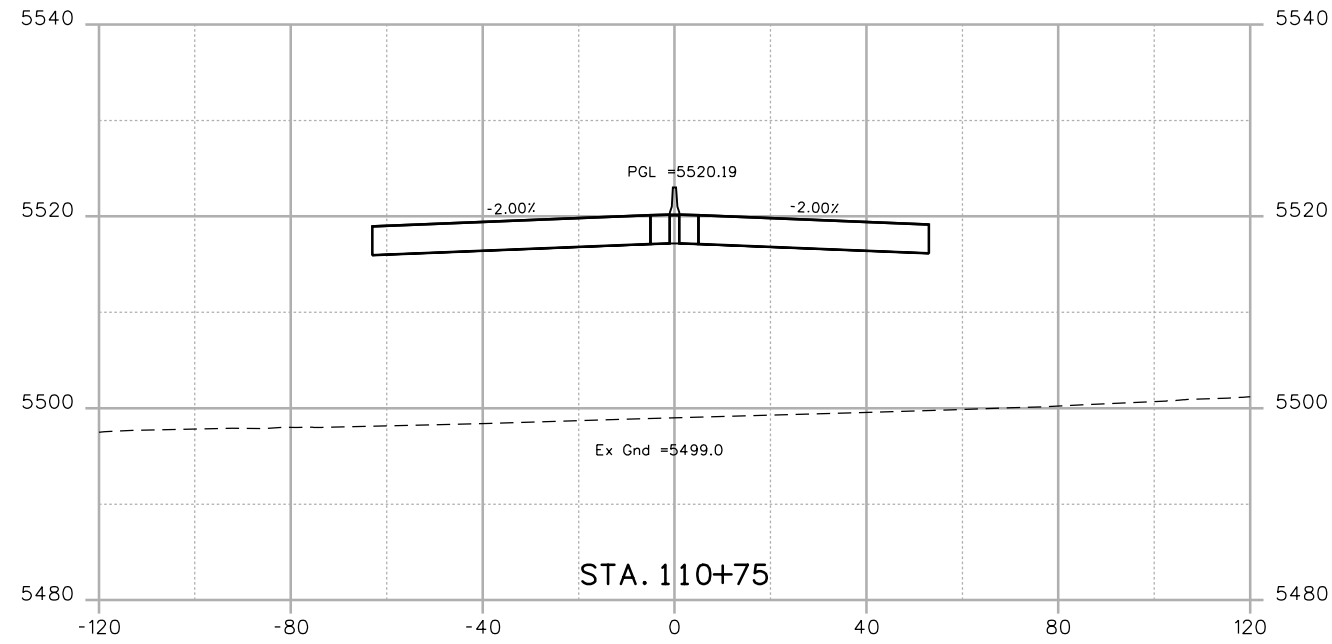
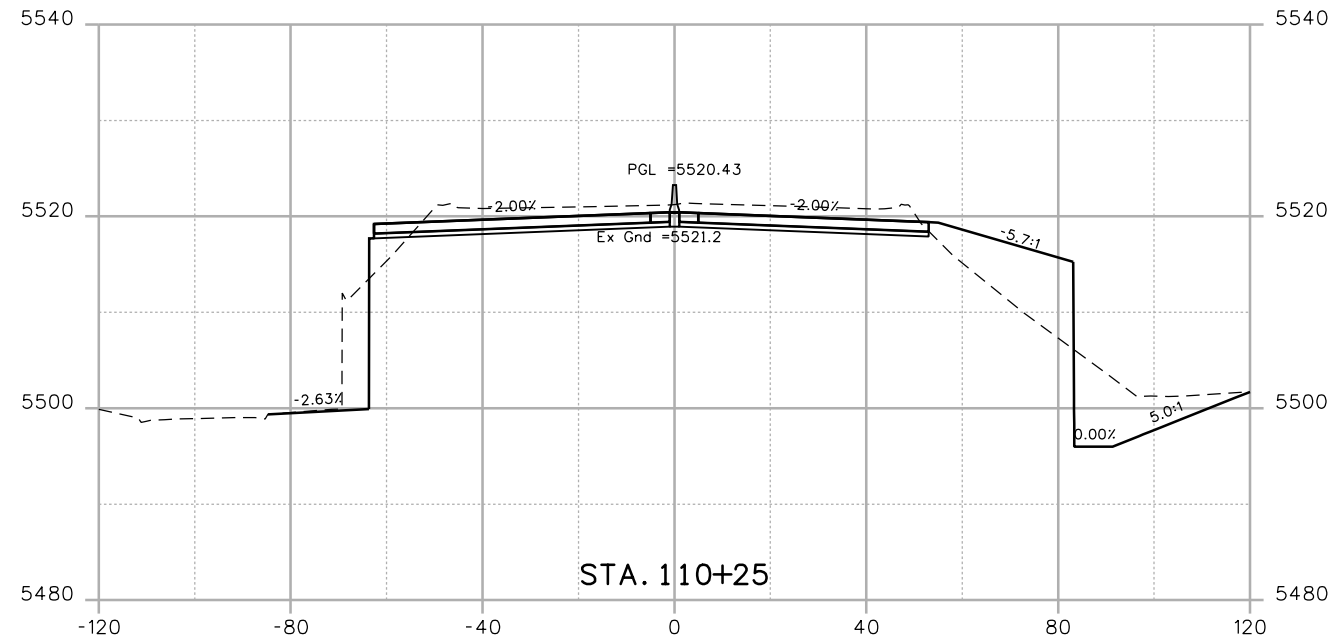
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Project No./Code	?
	19478
Sheet Number	91

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kristi.gempfer@dot.state.co.us 4:30:09 PM P:\14044290 - 6th & Garrison\Mgmt\Project Info\CH2MHill\Projectwise Info\473244_US6Garrison\JPC Code\USER\KJG\19478-XSEC01.dgn



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Unit Information Unit Leader	

Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

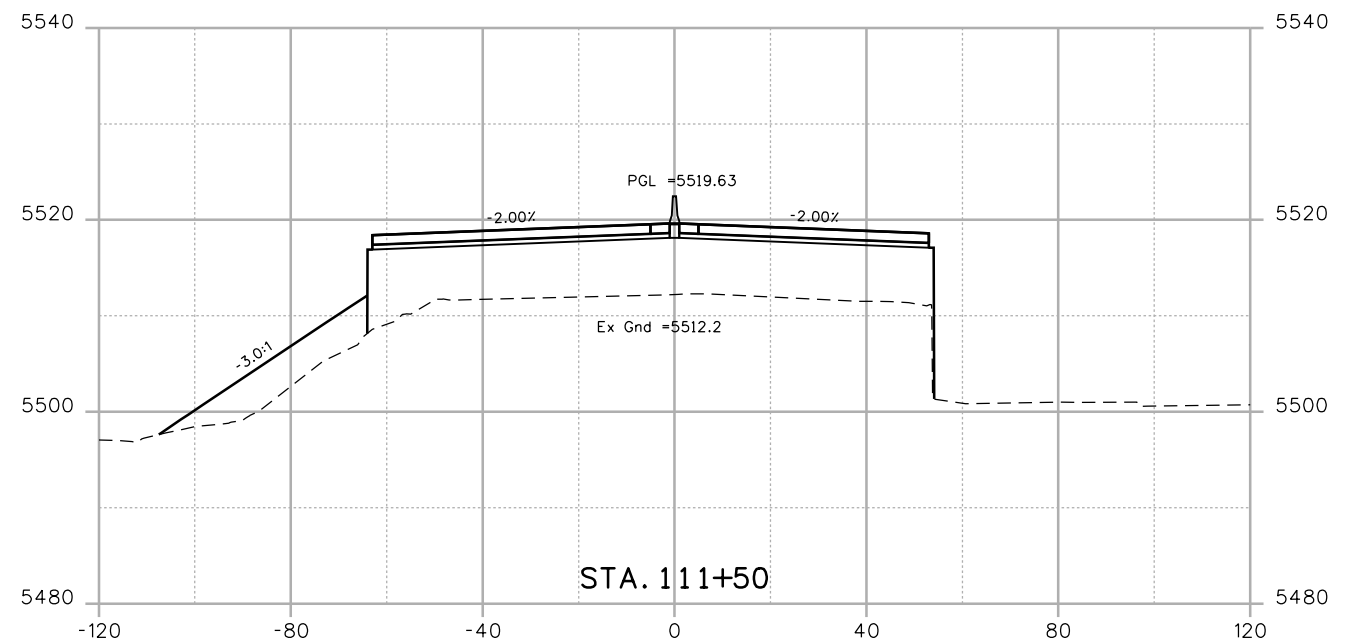
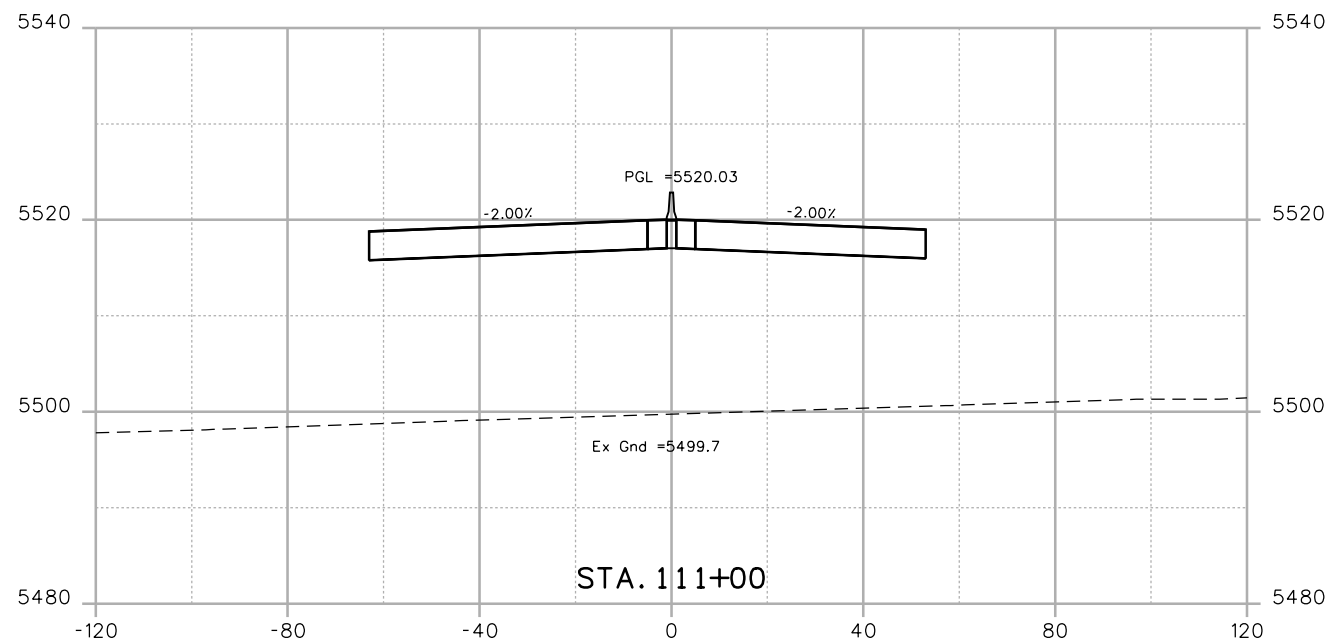
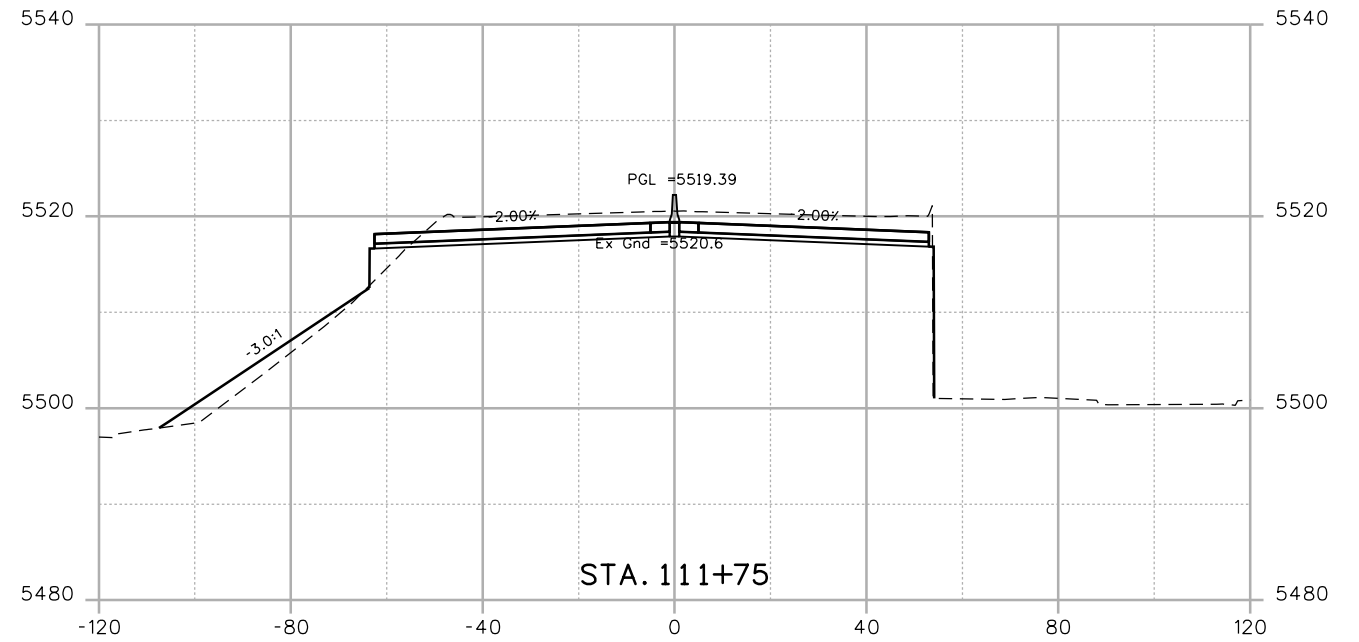
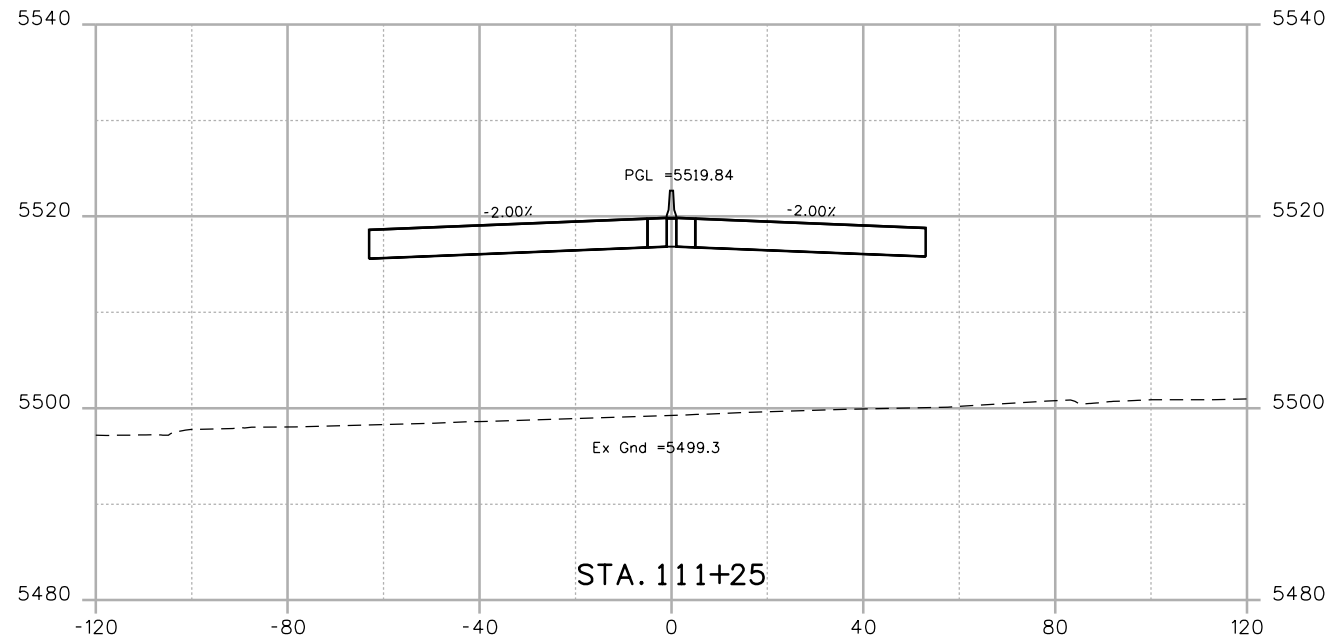
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Sheet Number	92

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 Unit Information Unit Leader



Sheet Revisions		
Date:	Comments	Init.

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Region 1 **KPB**

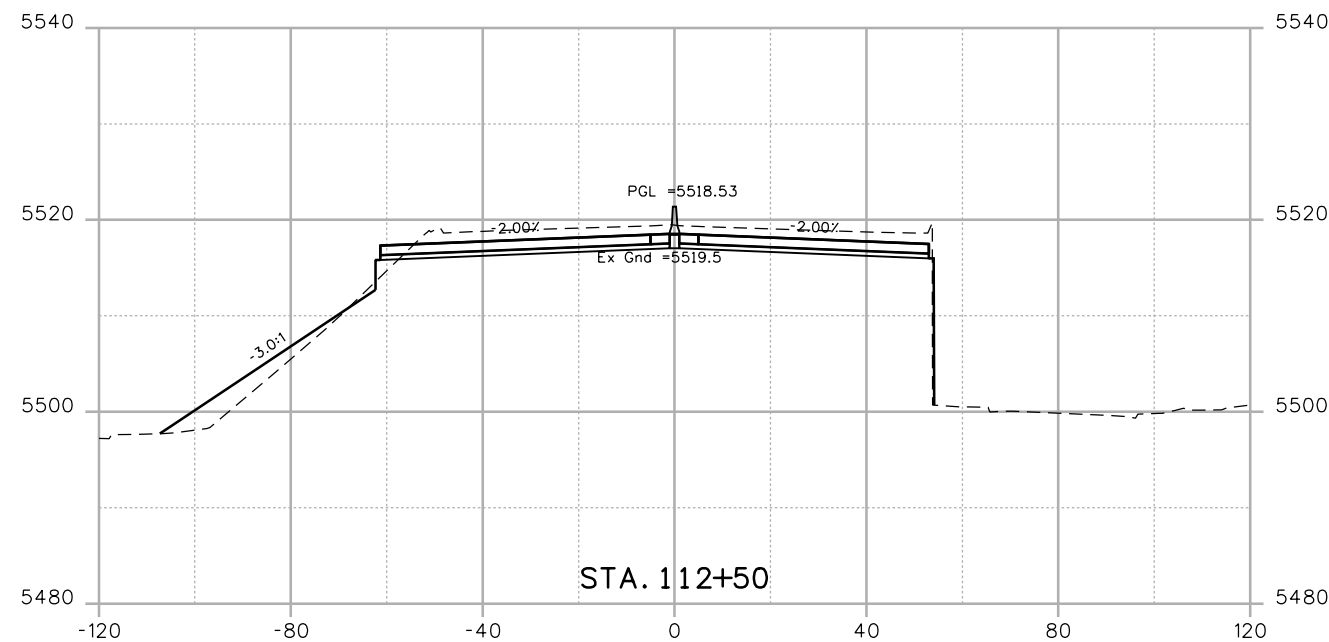
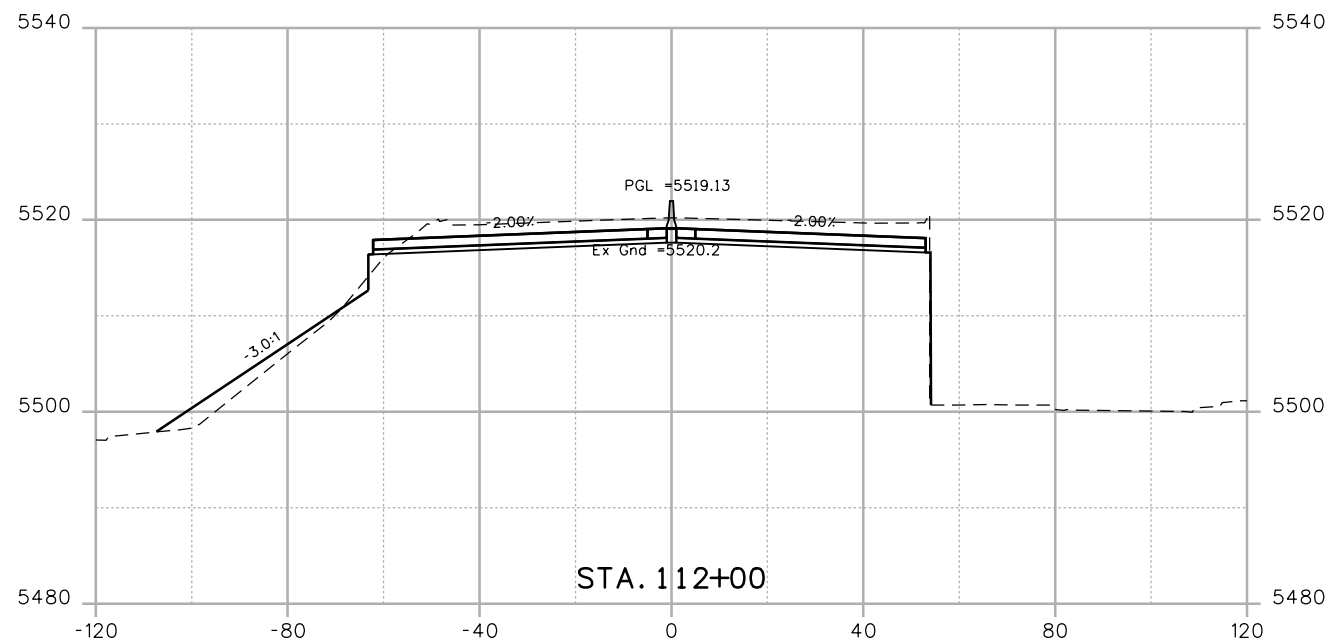
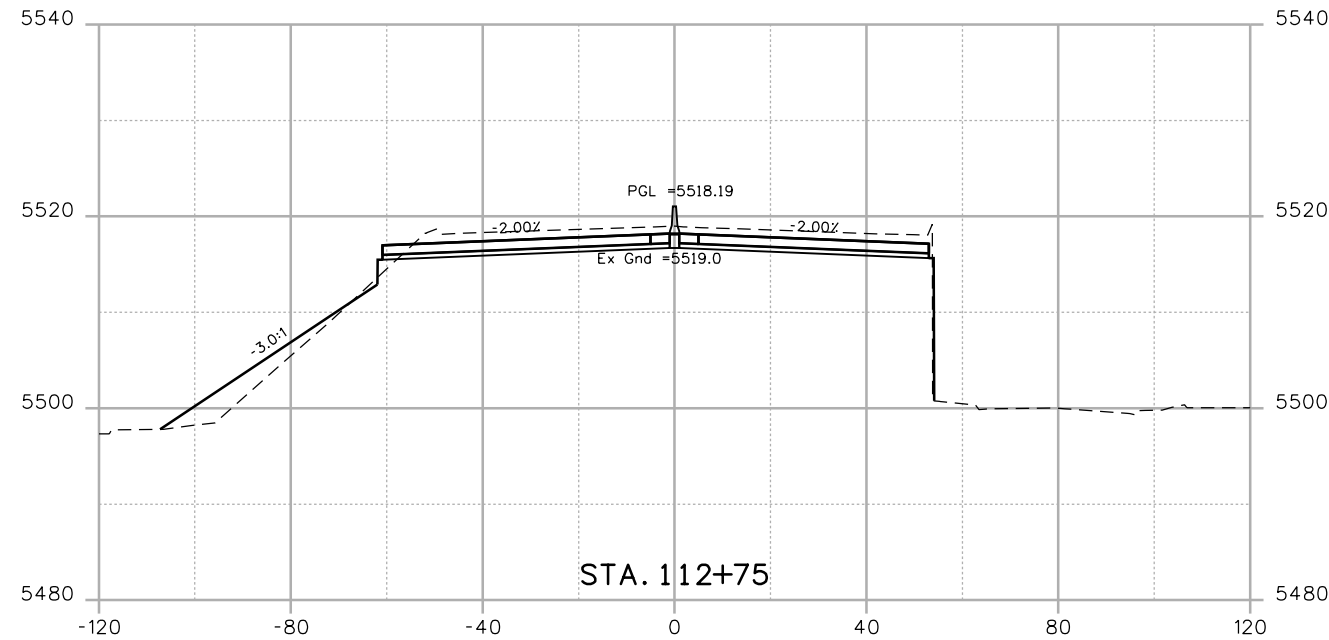
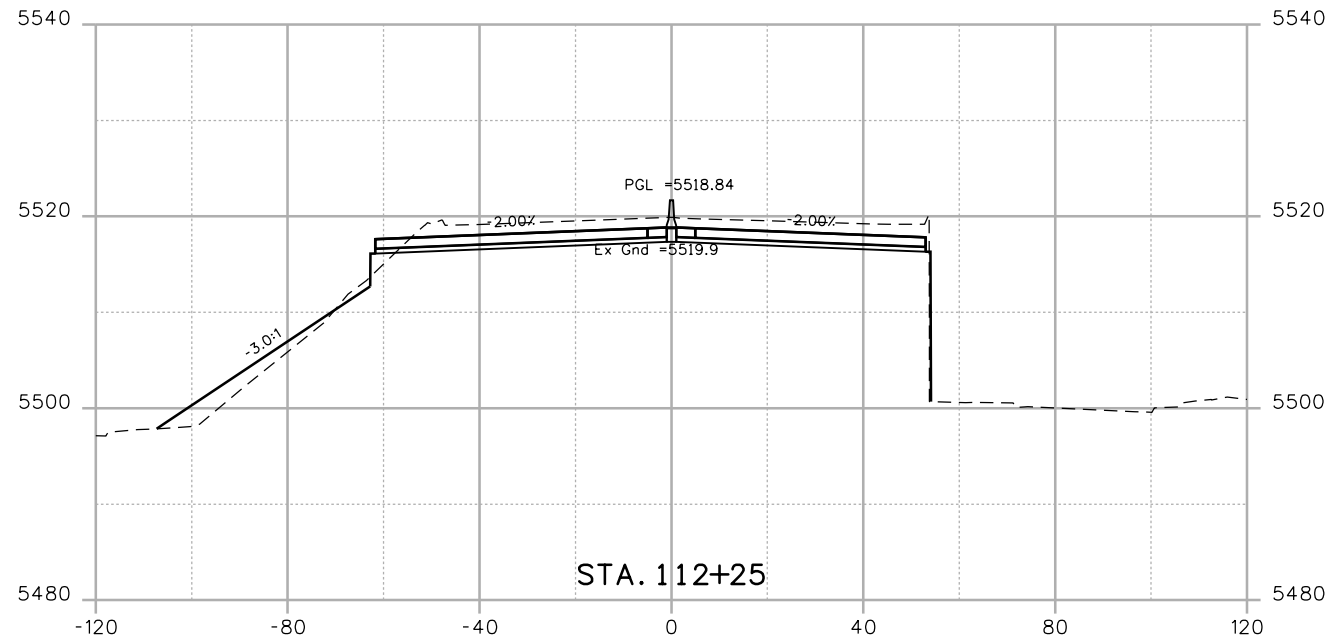
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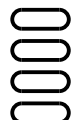
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Sheet Number **93**

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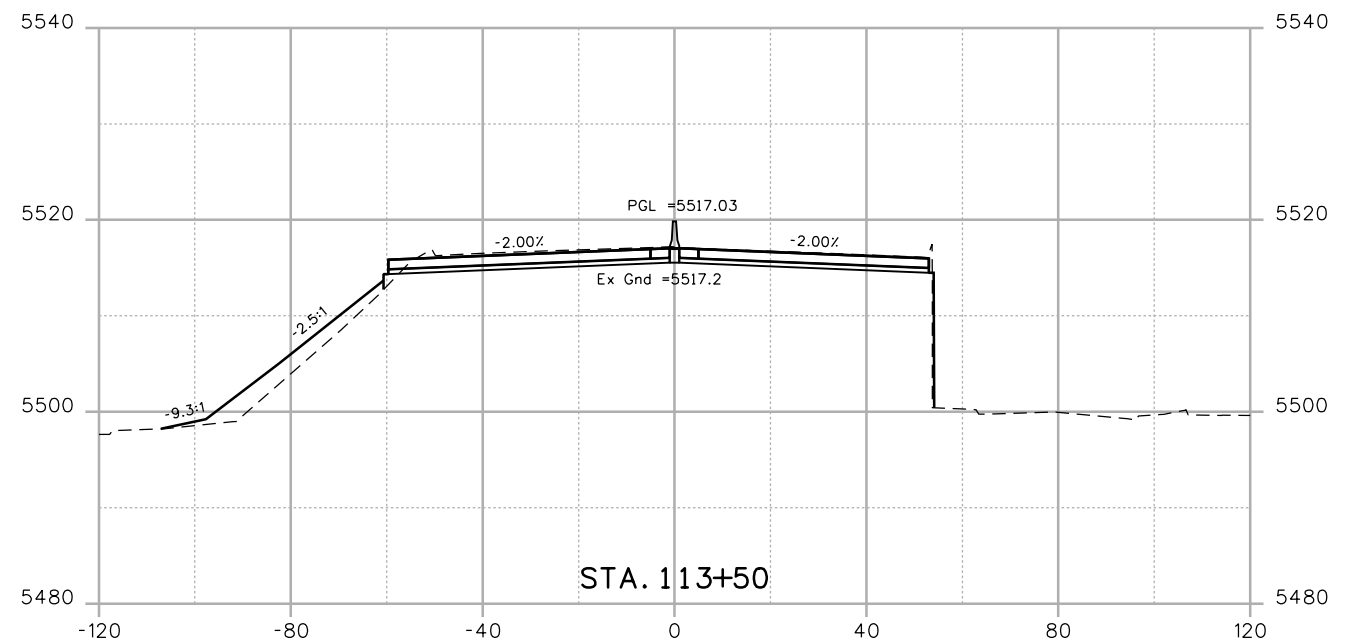
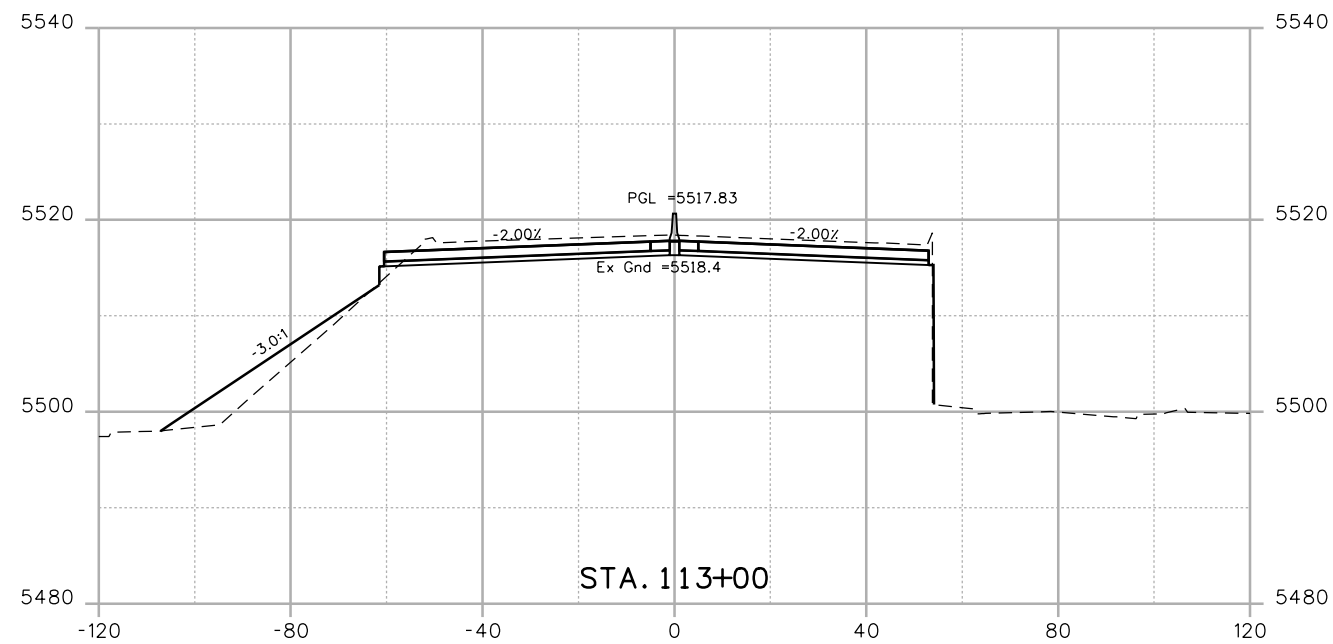
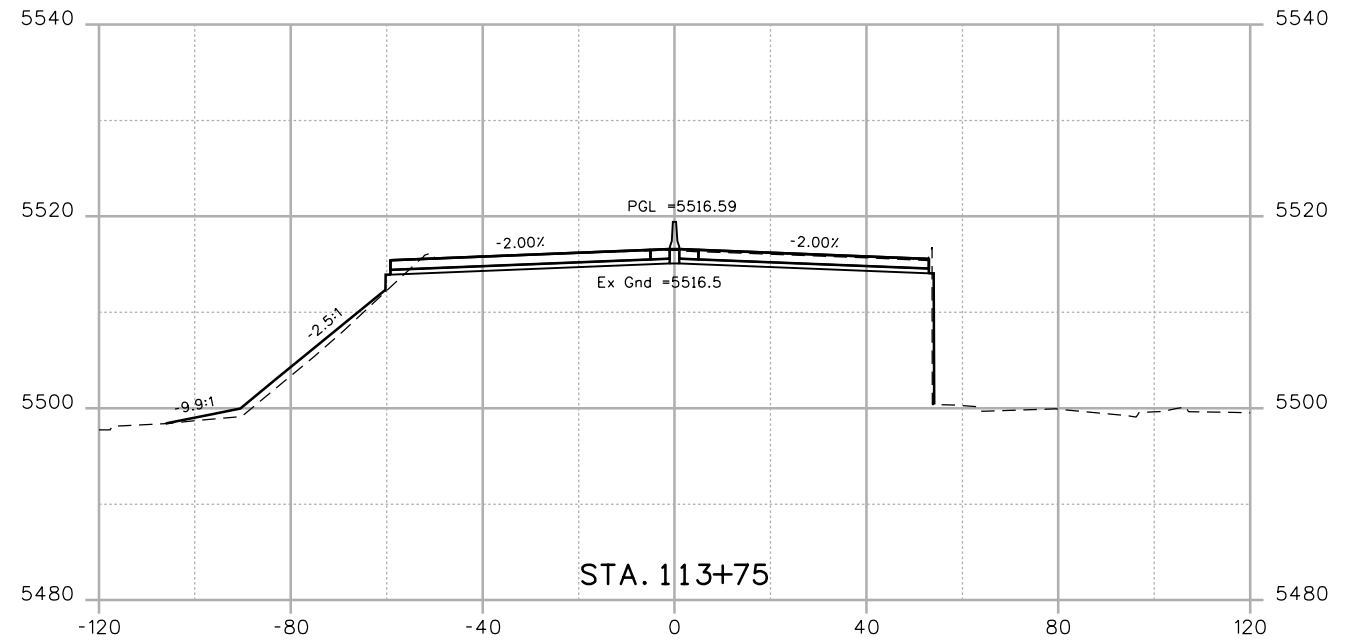
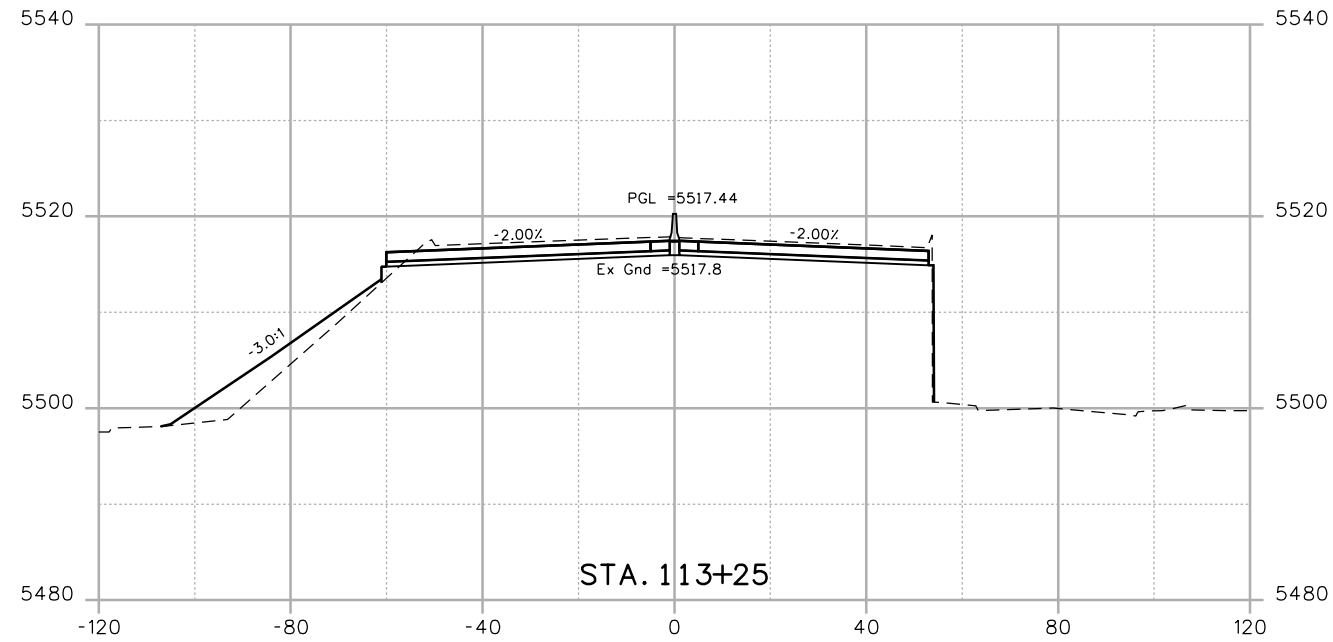
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Project No./Code
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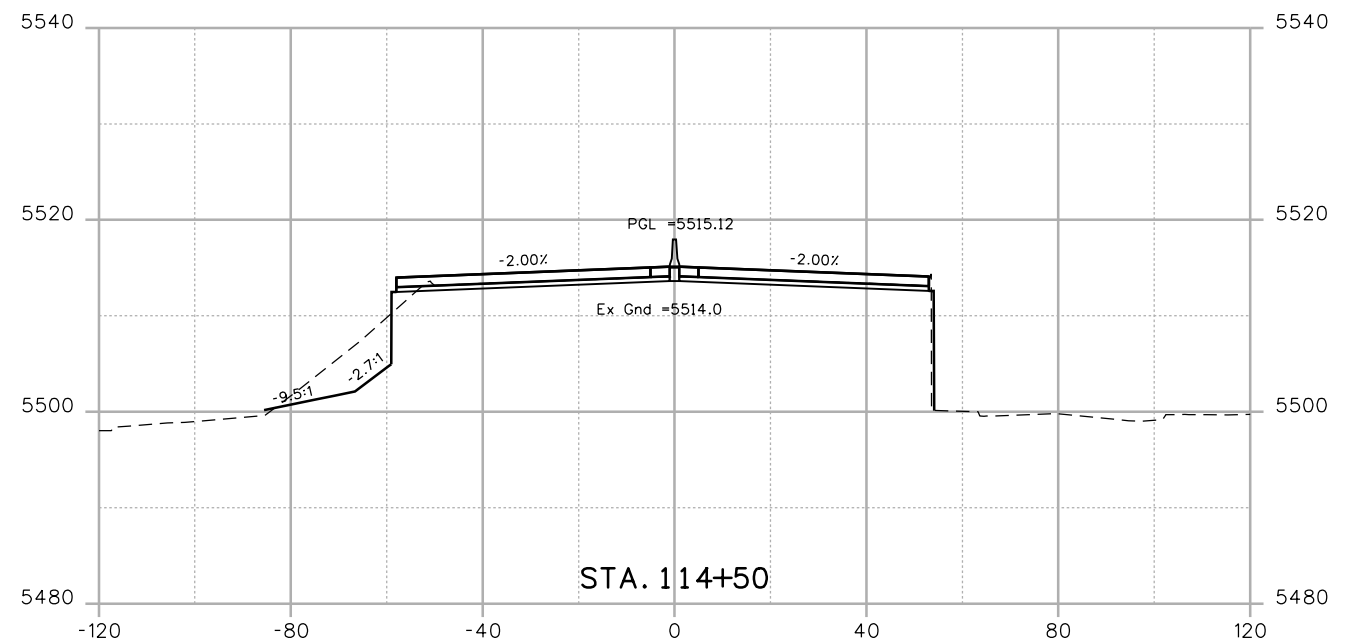
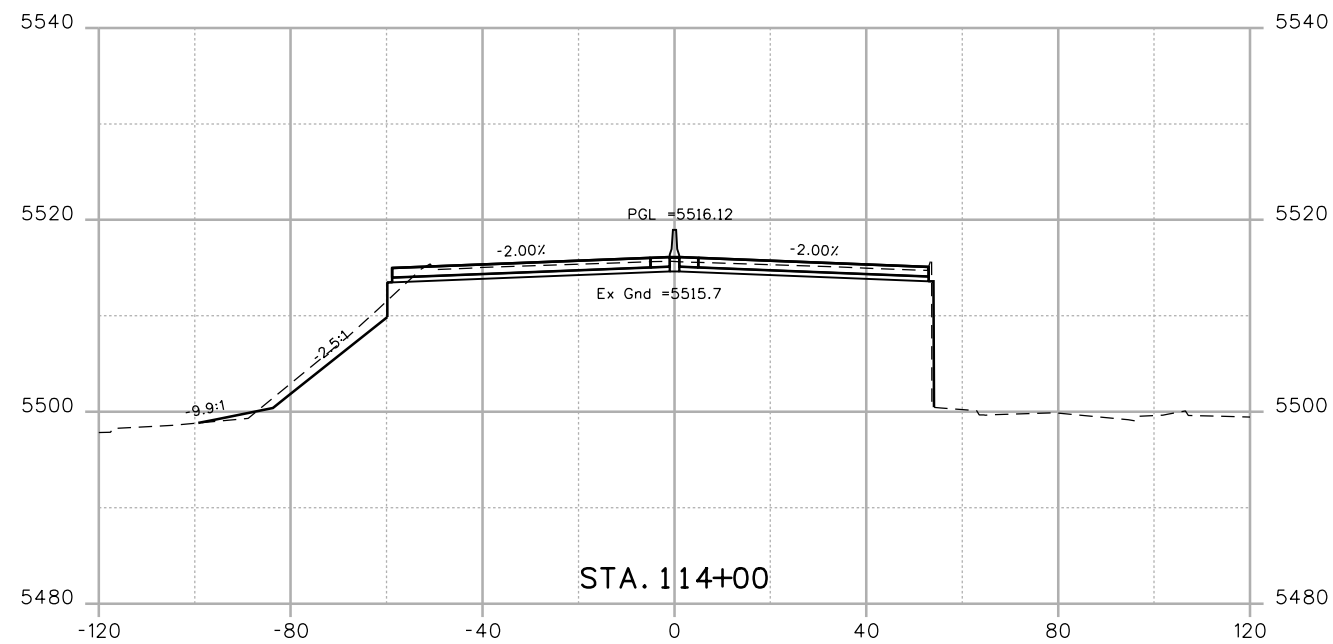
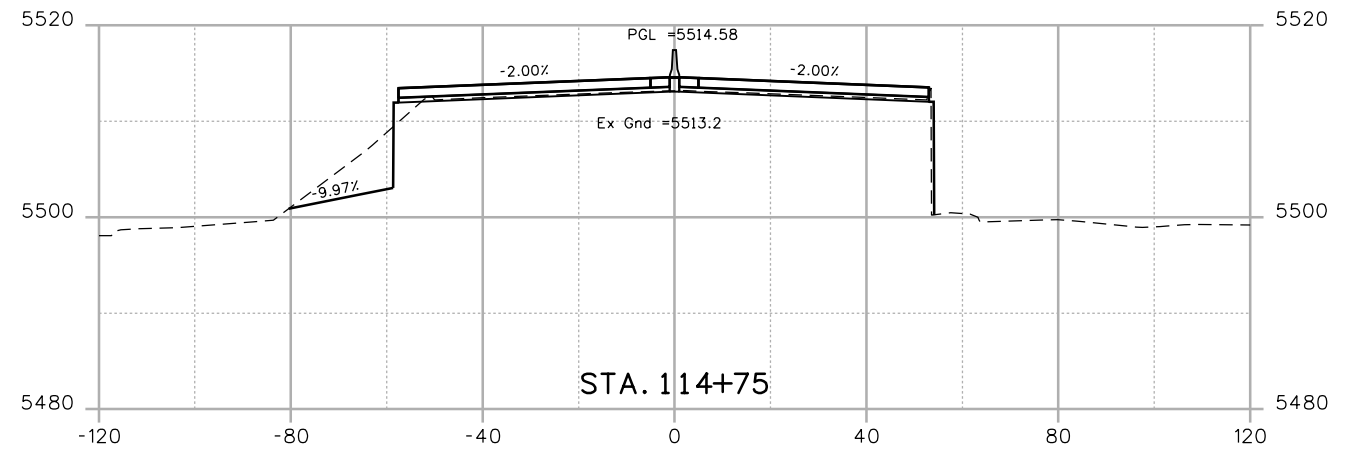
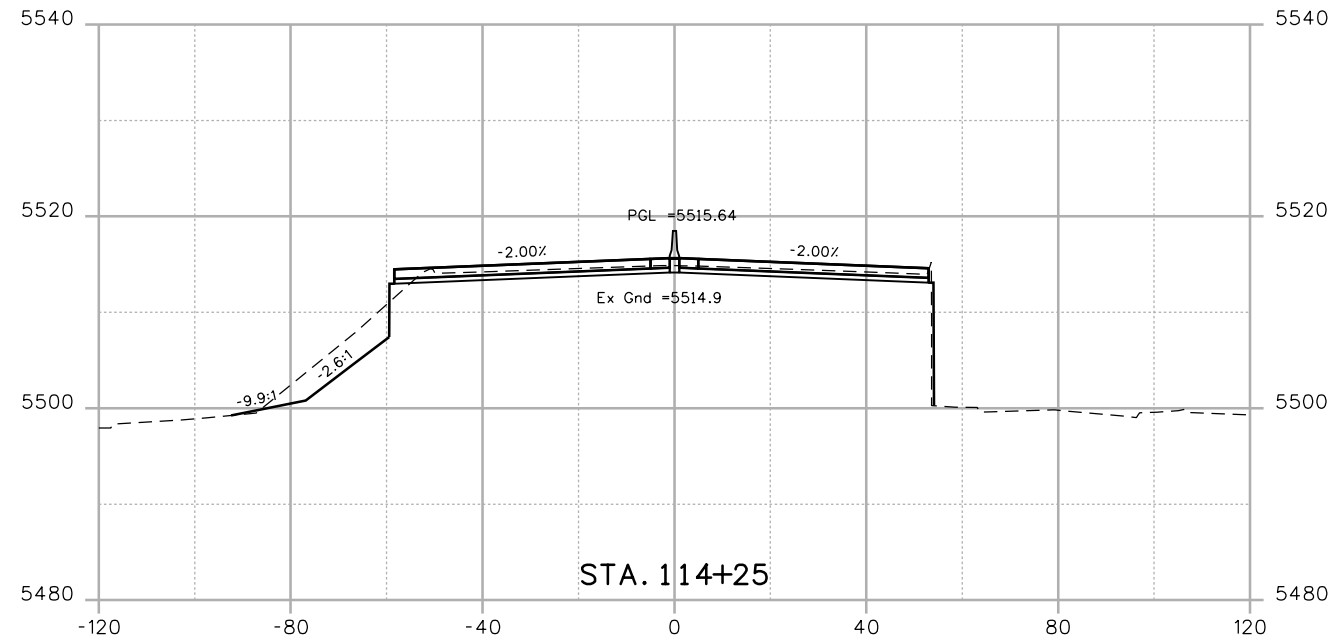
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Project No./Code
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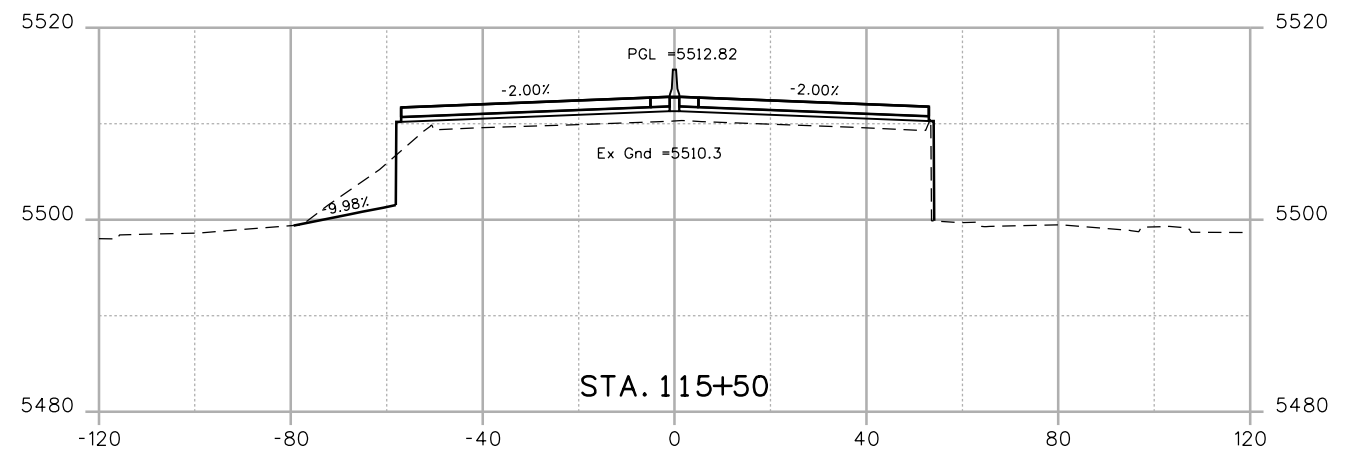
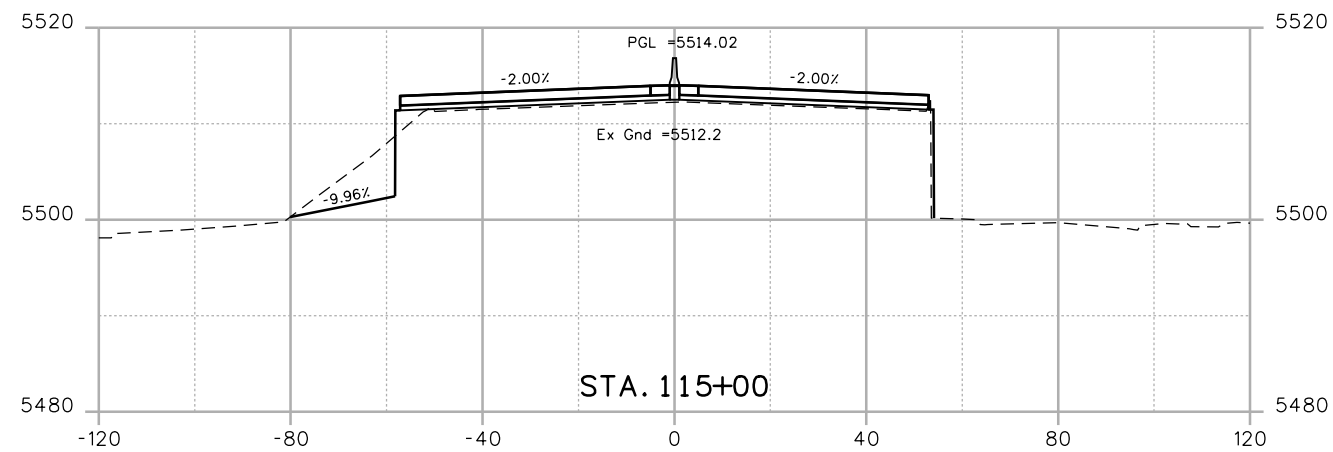
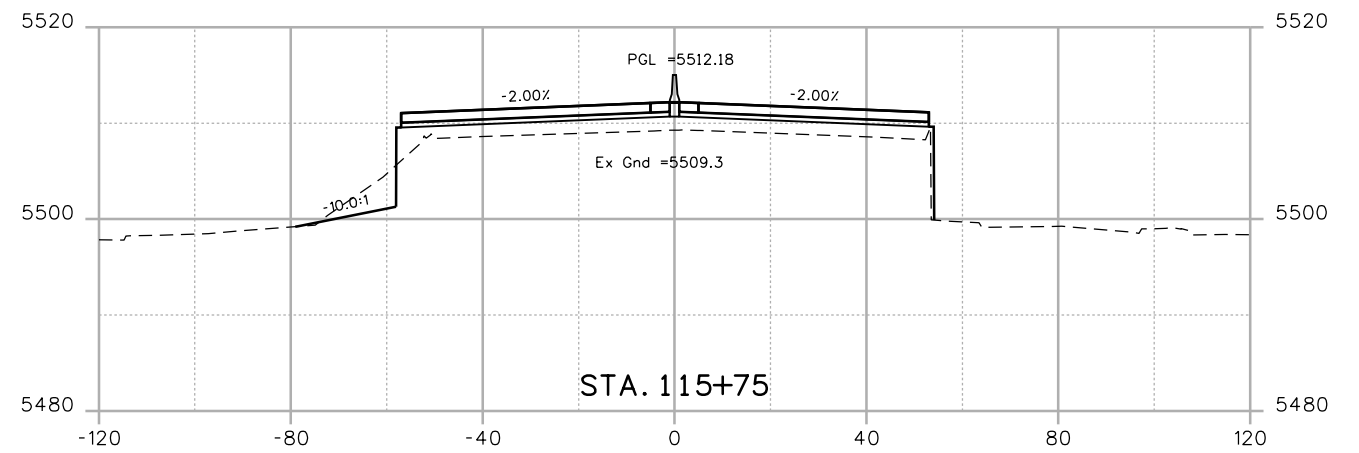
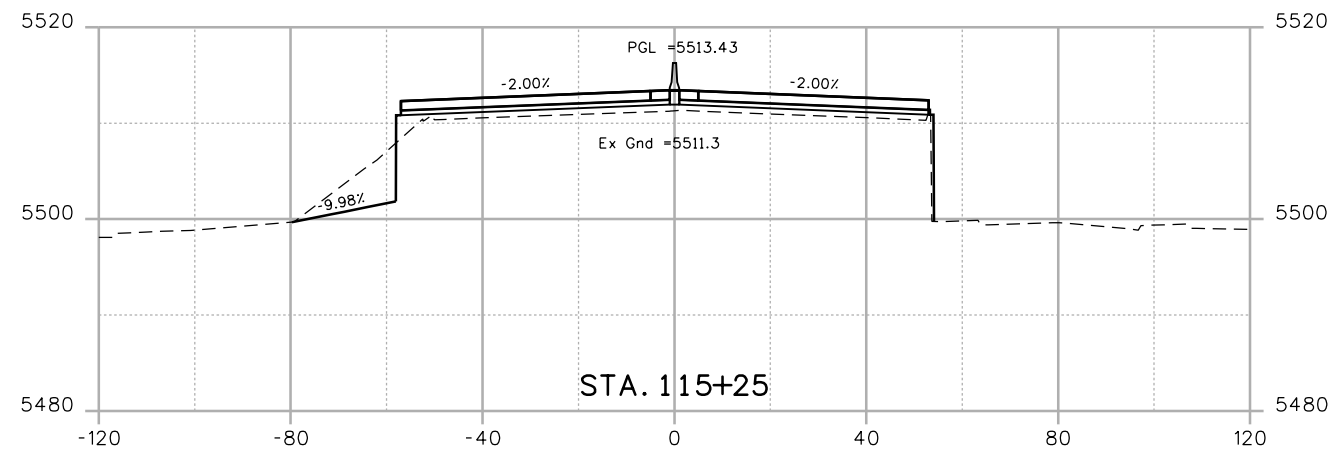
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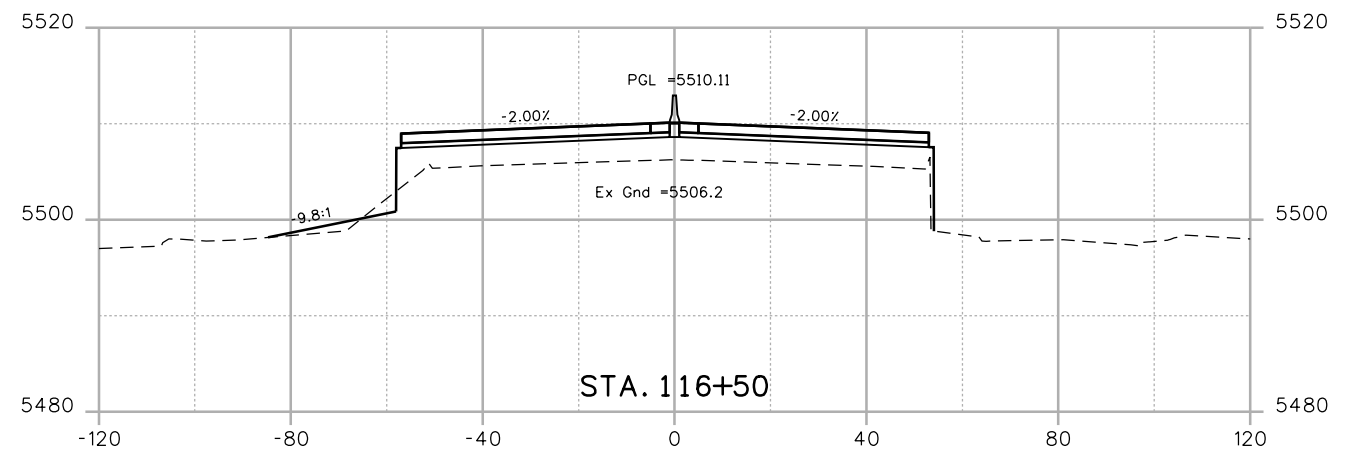
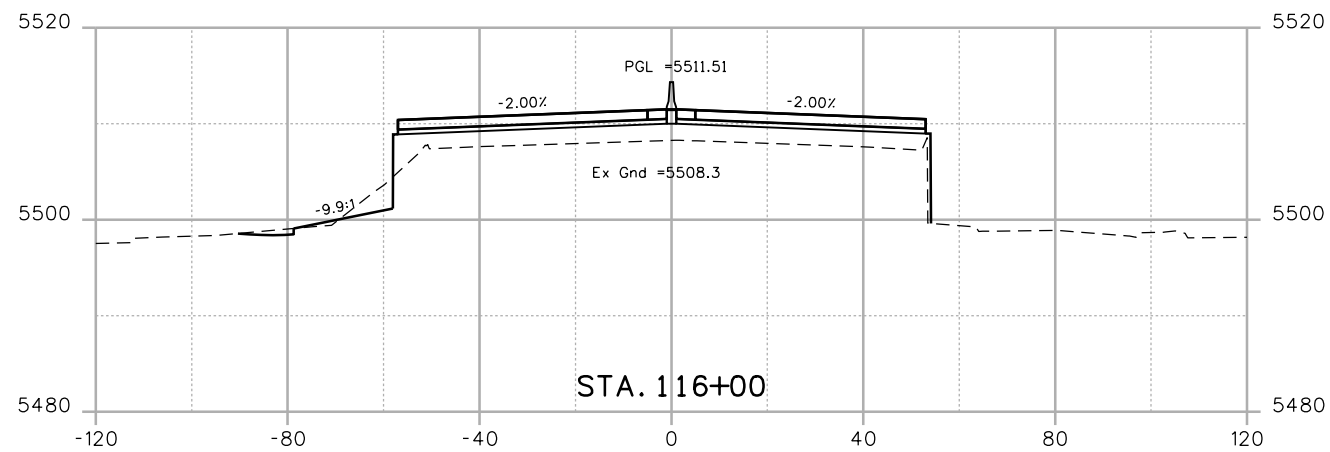
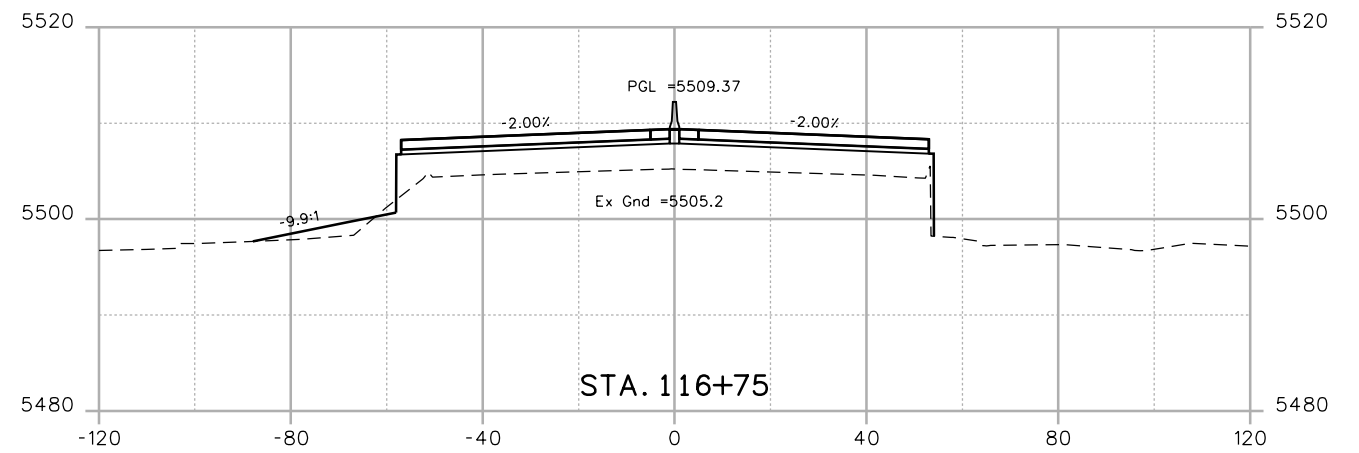
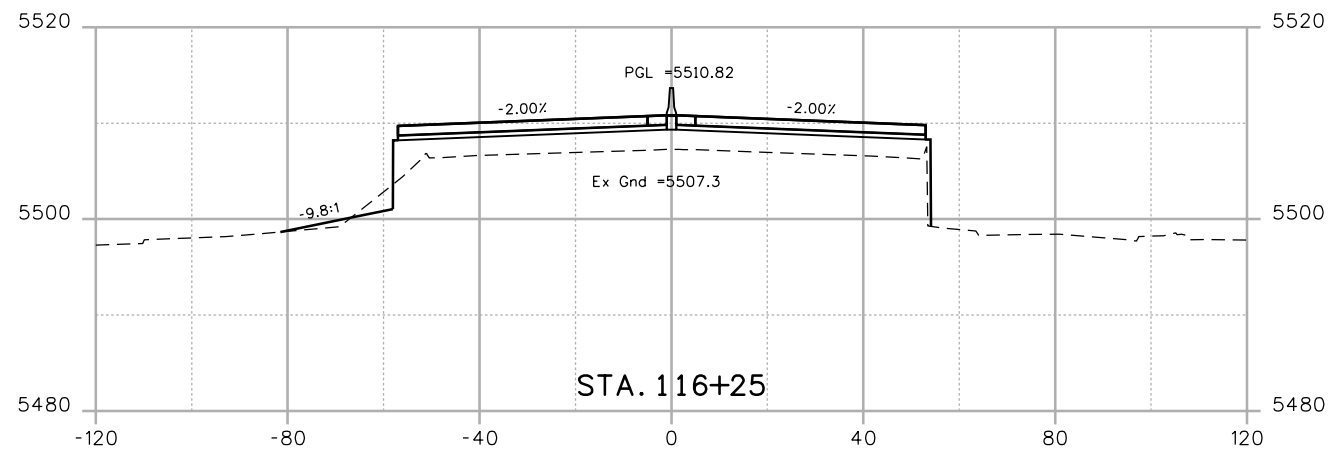
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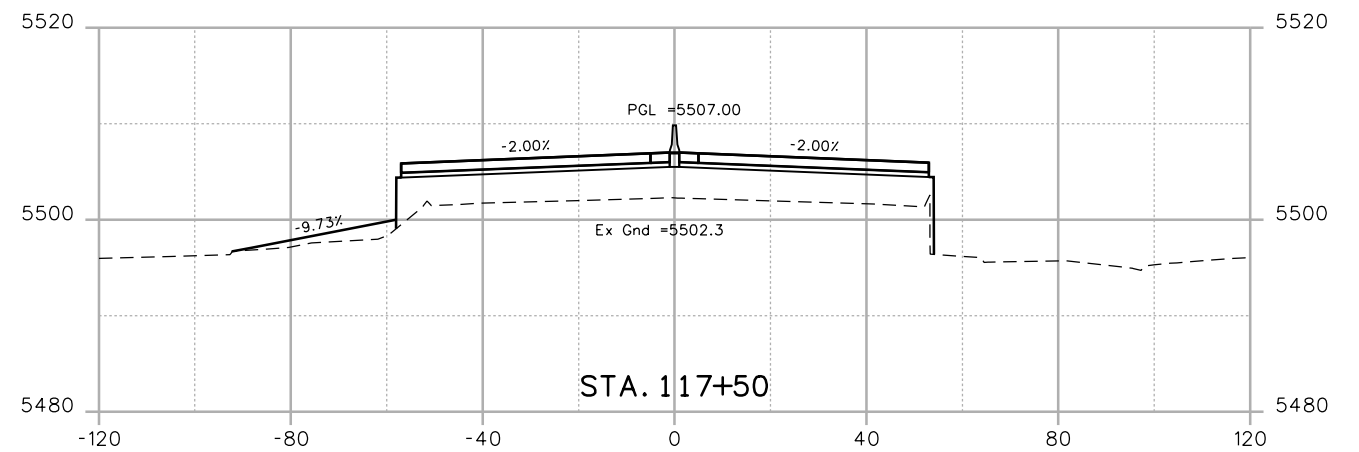
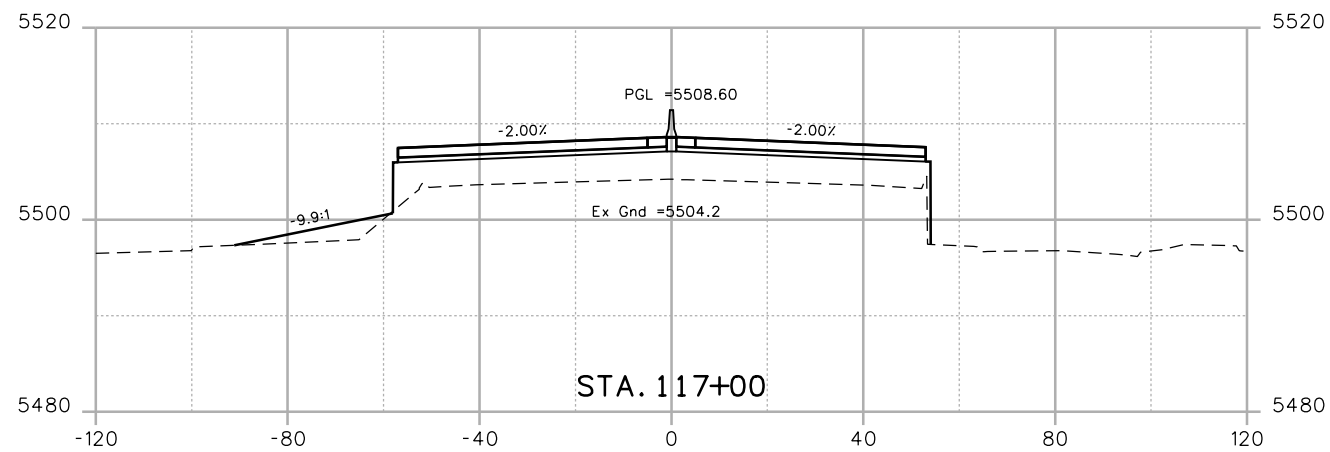
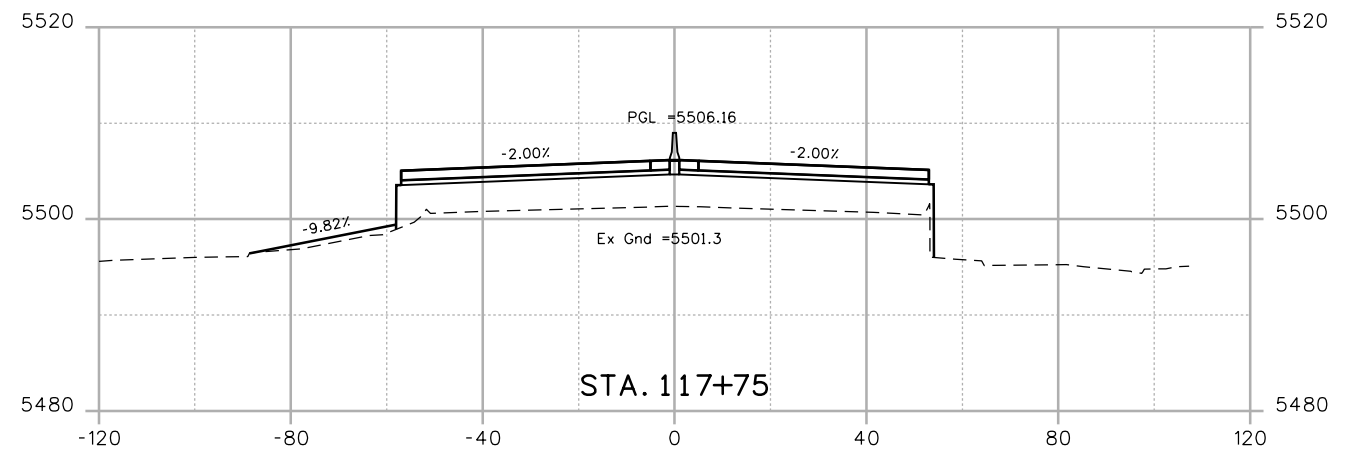
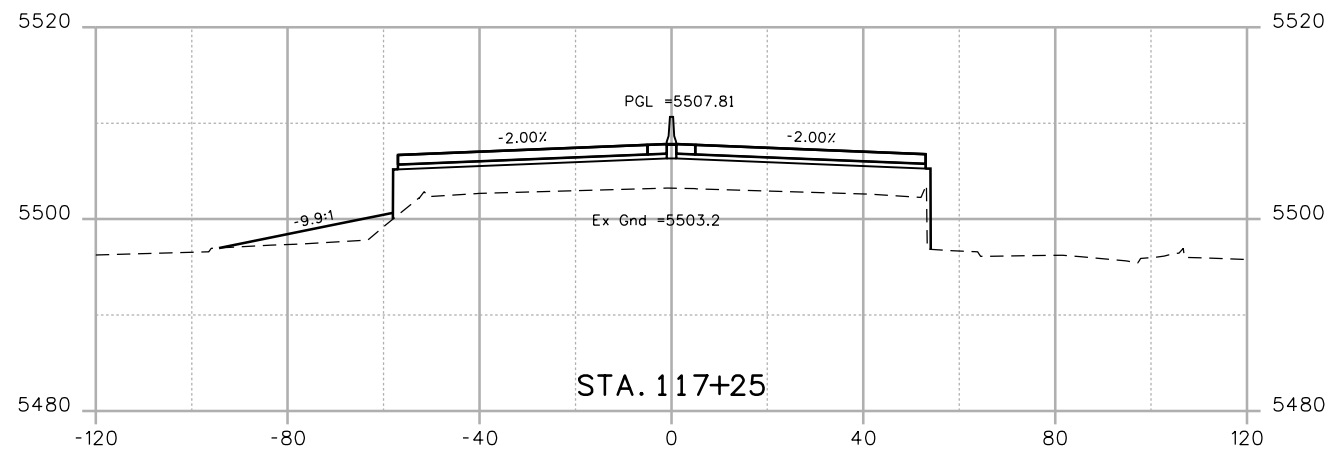
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Sheet Number	98

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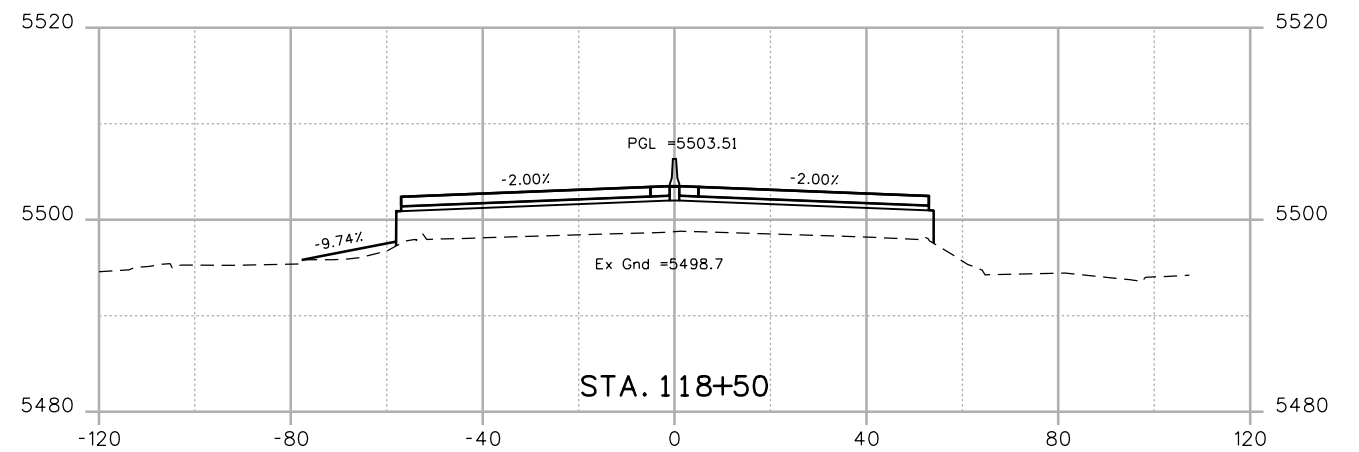
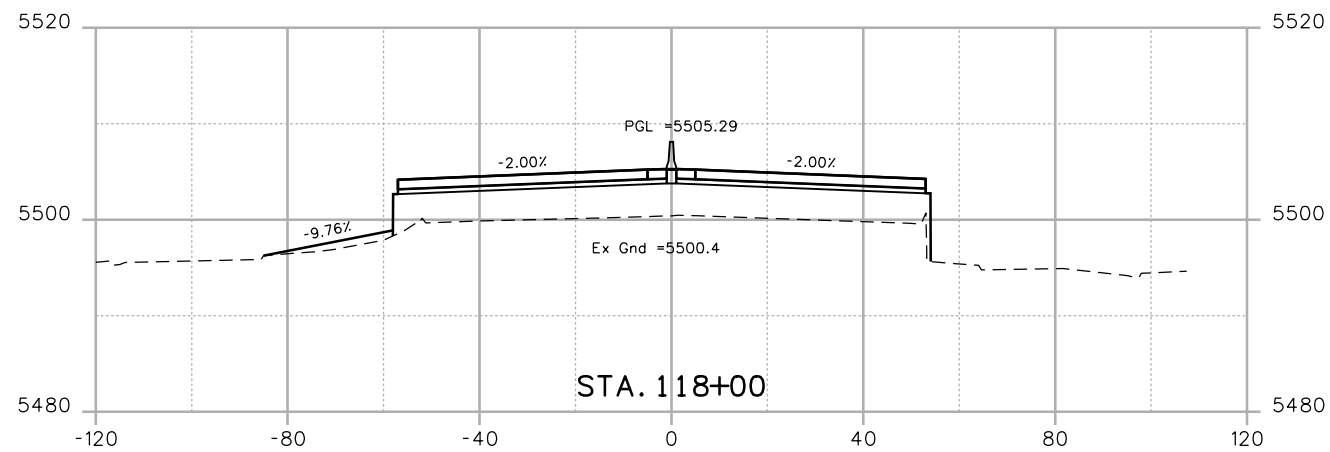
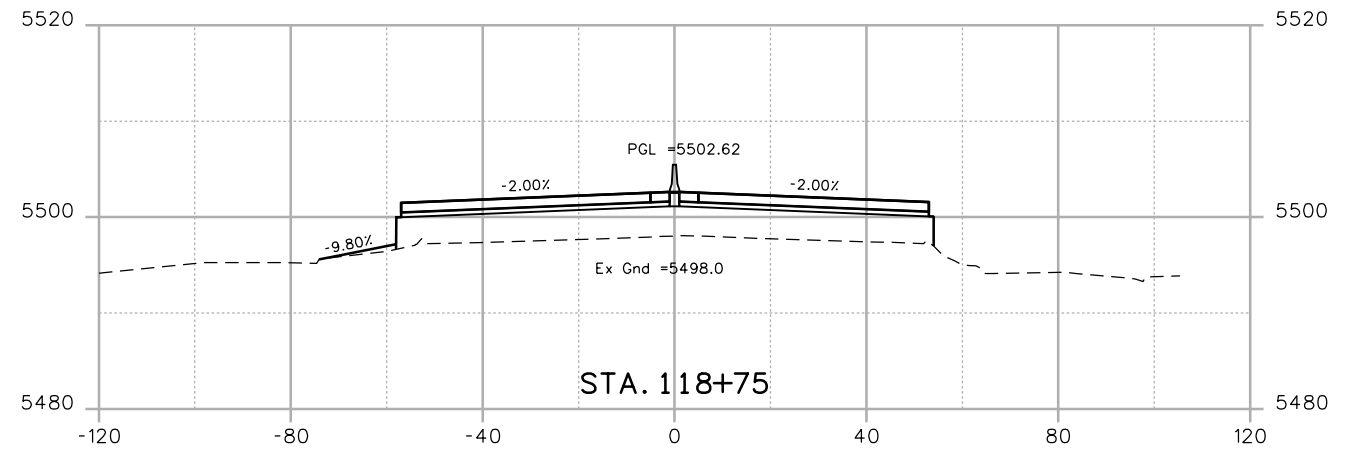
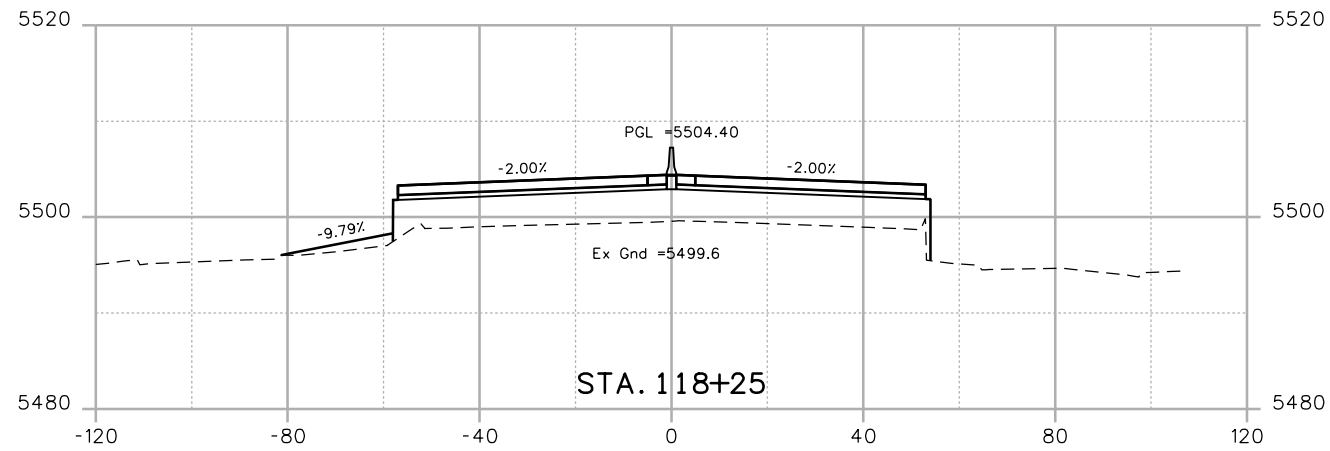
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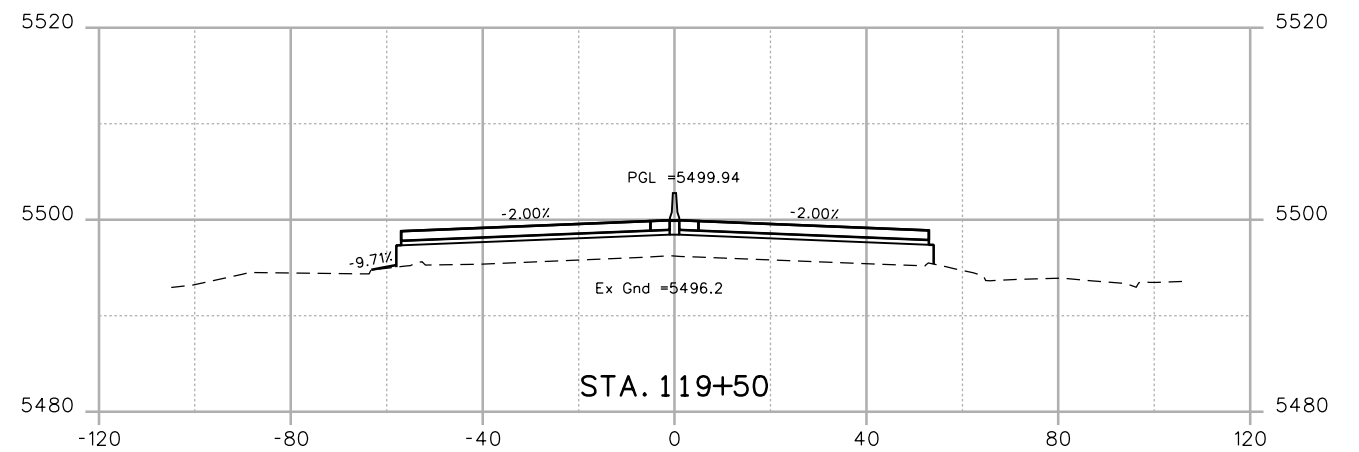
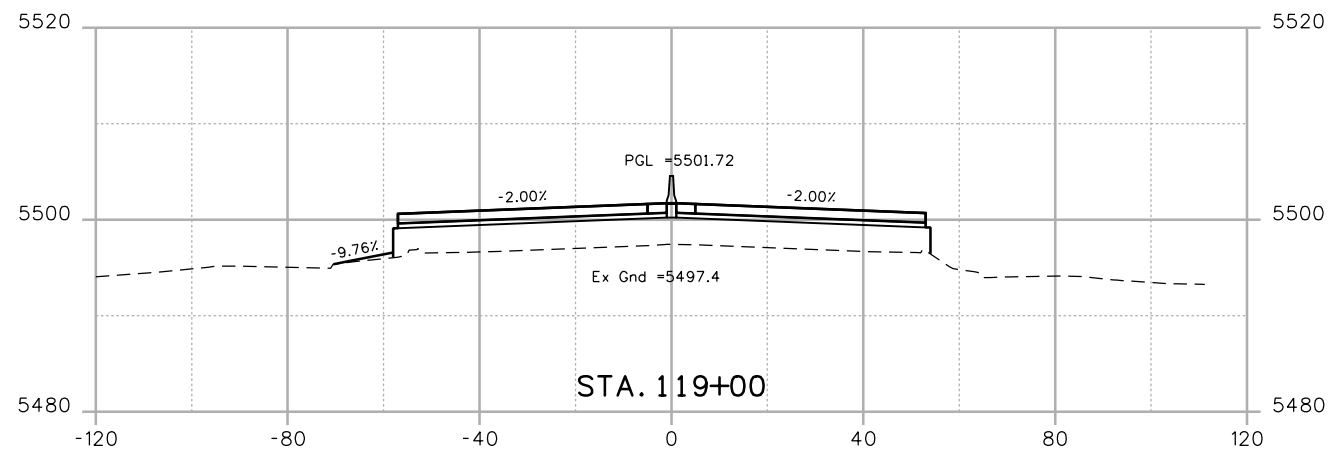
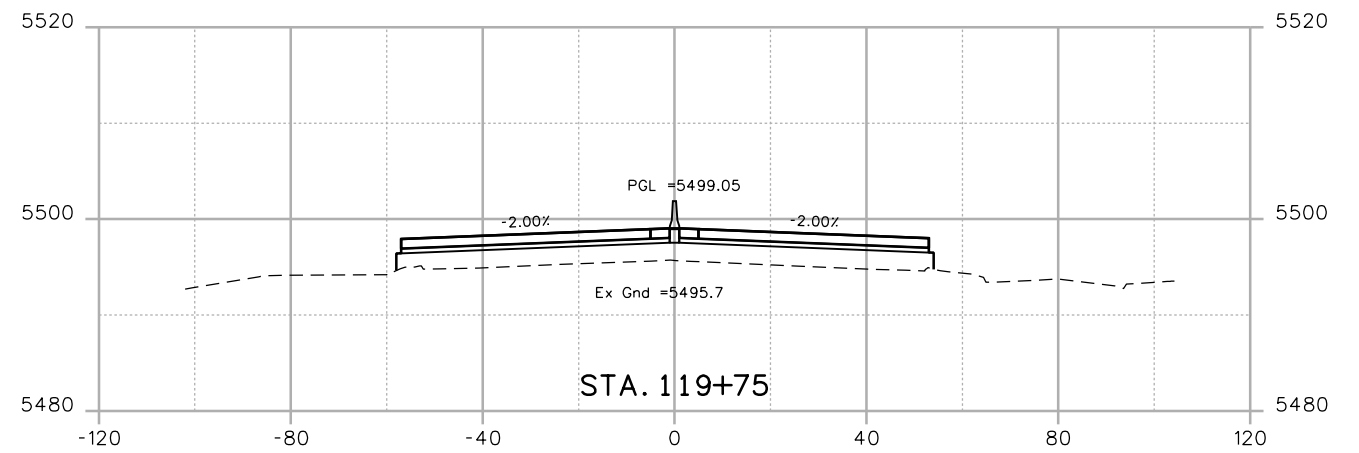
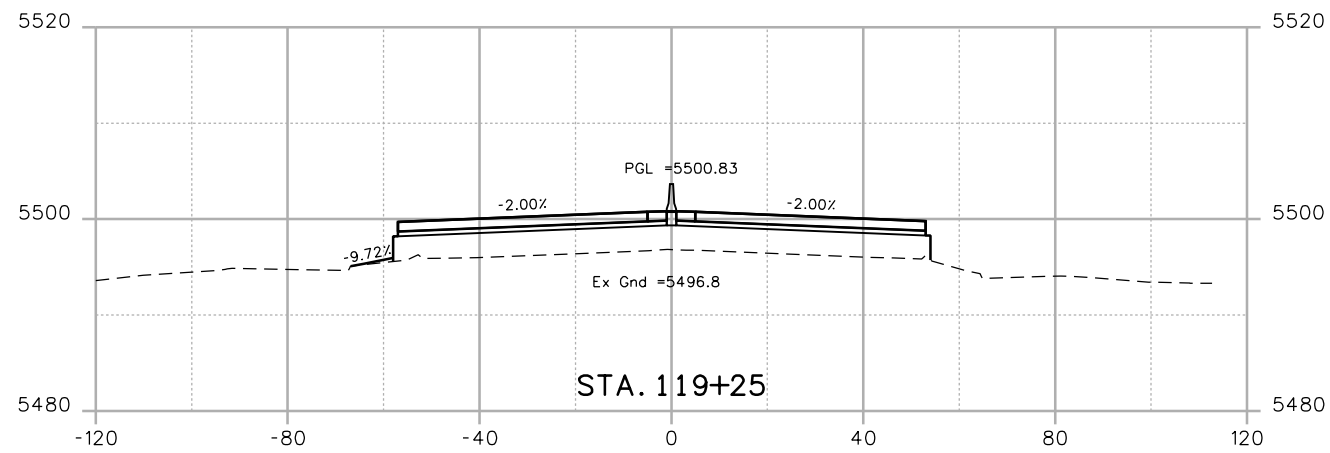
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Project No./Code
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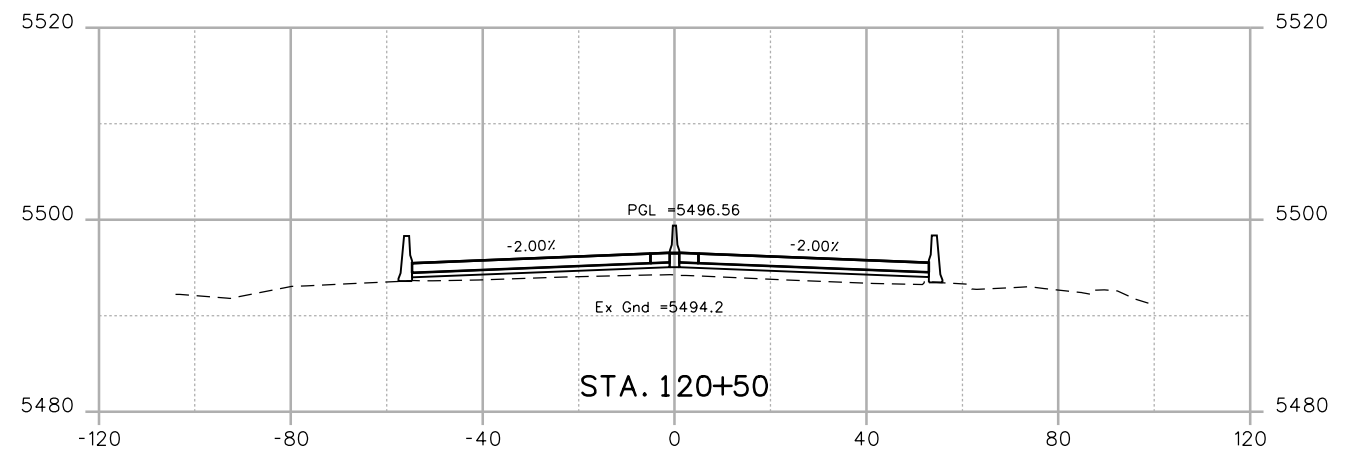
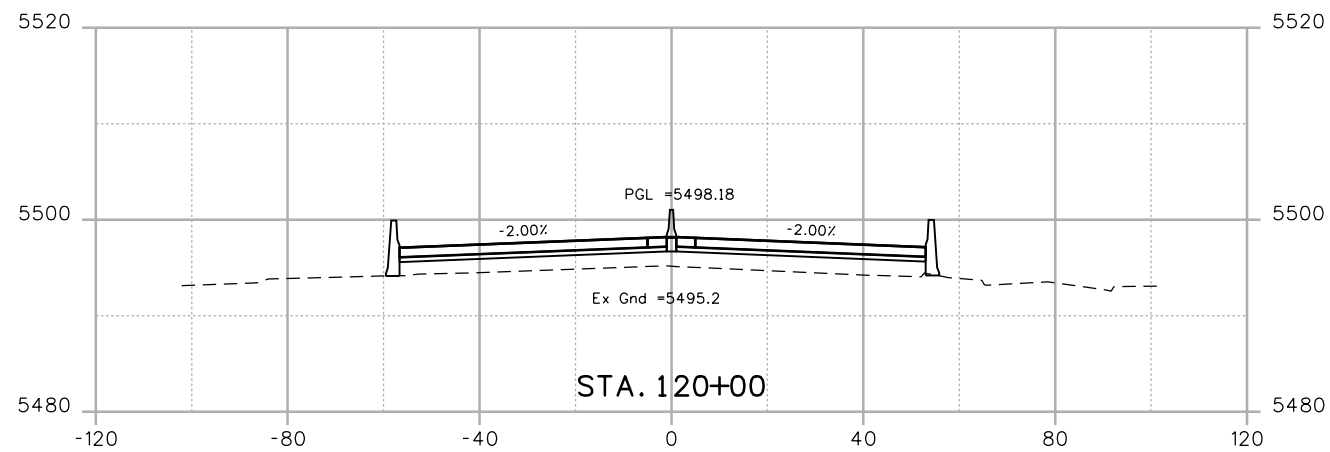
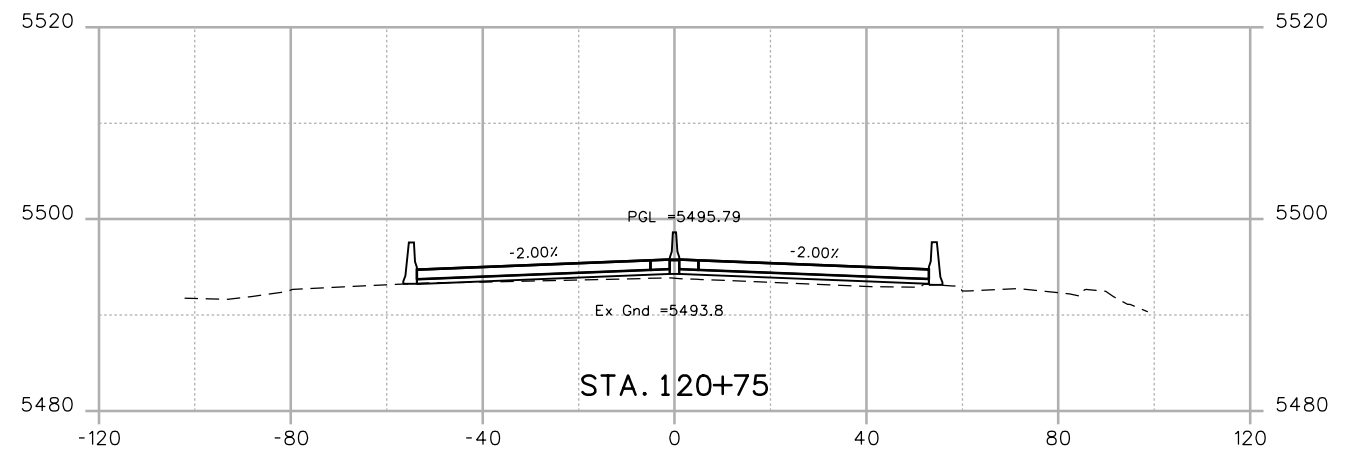
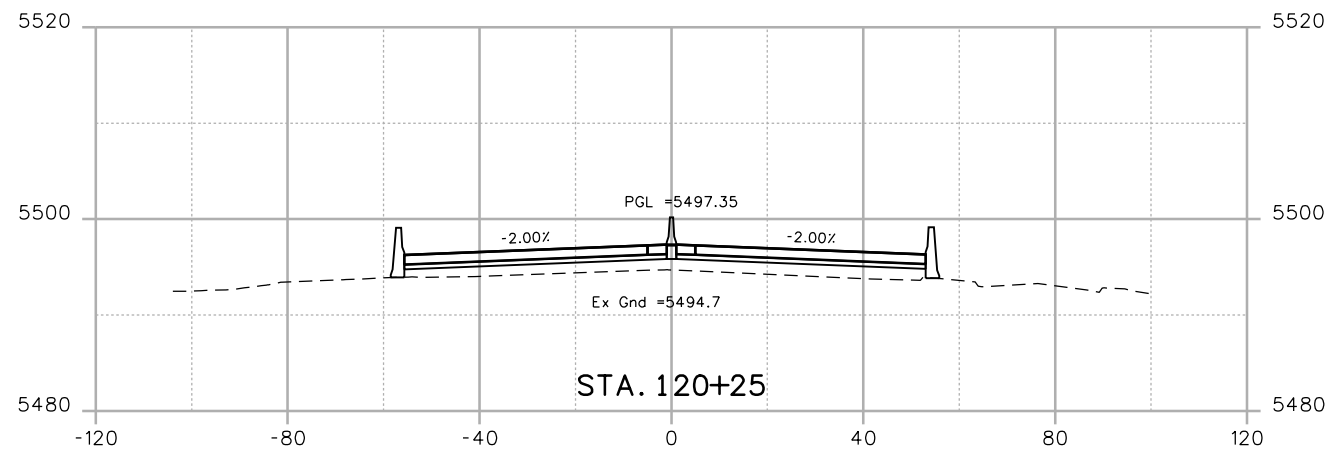
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Project No./Code
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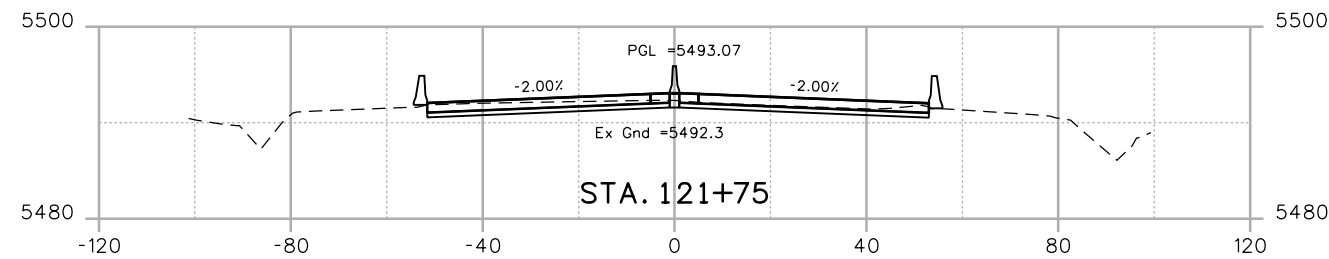
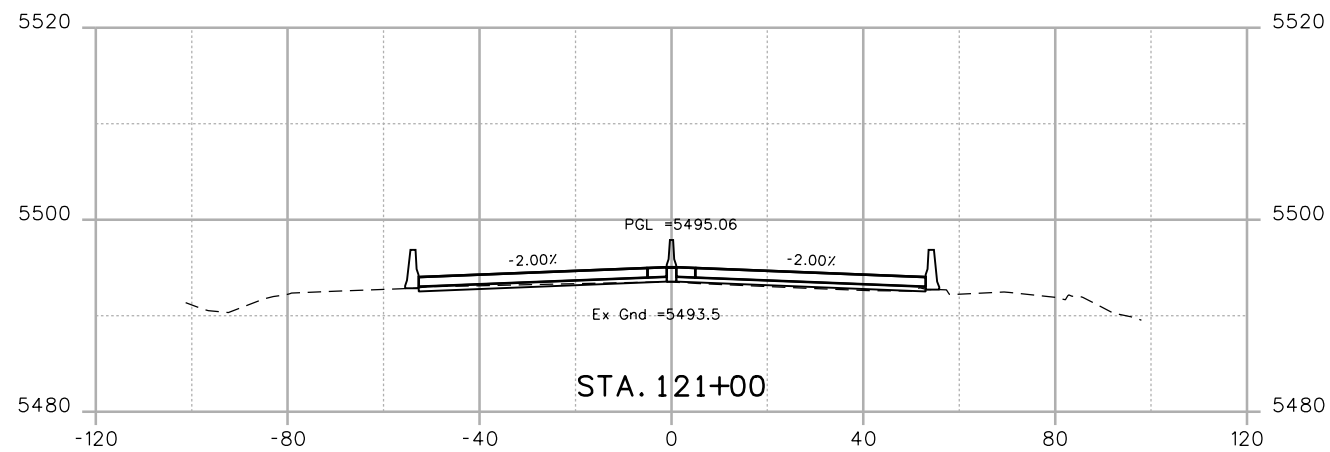
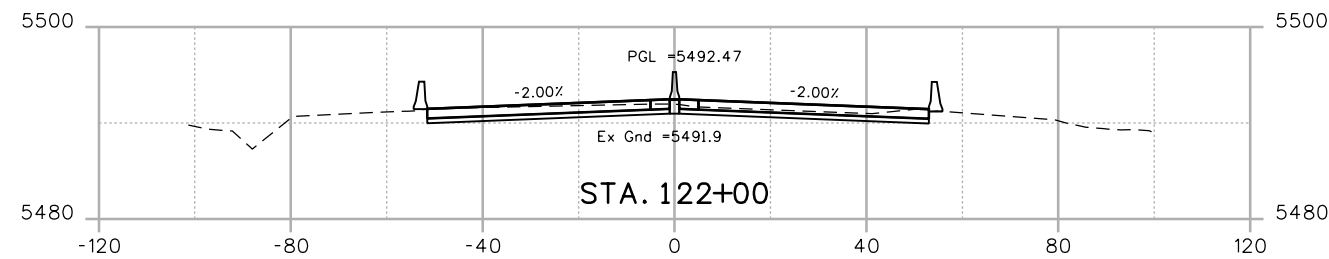
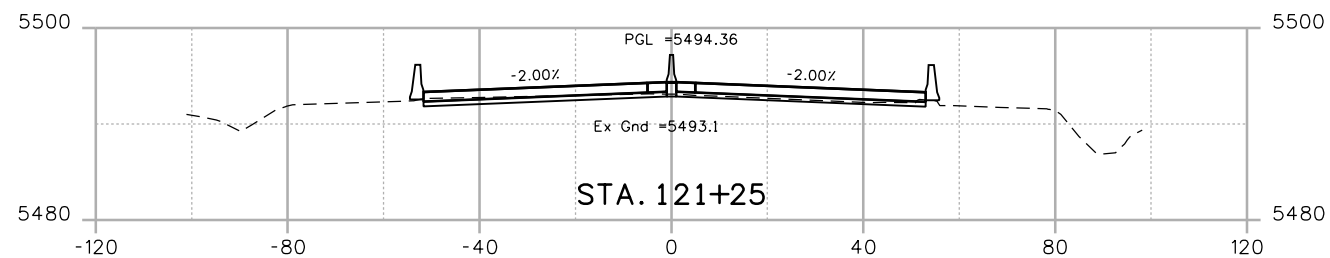
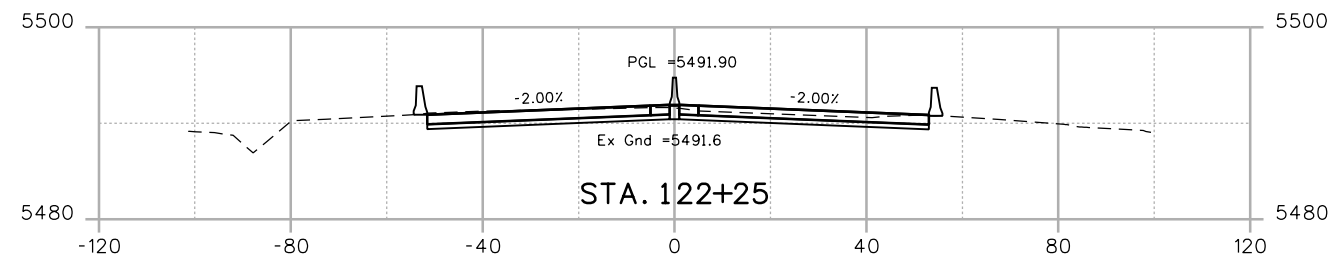
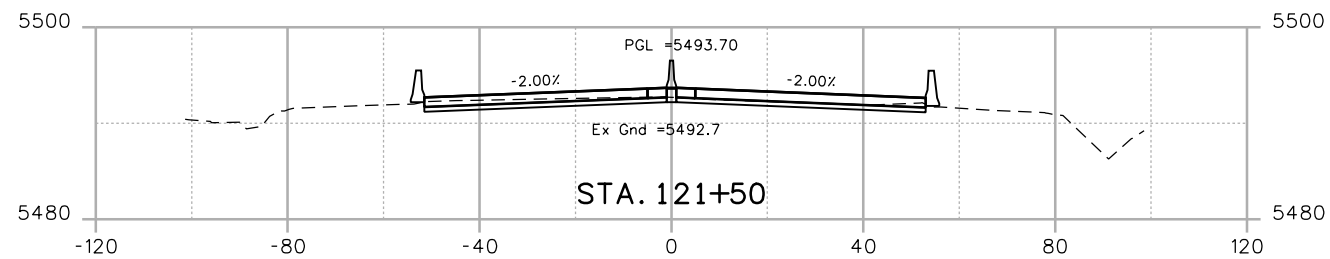
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Project No./Code
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Sheet Number 102

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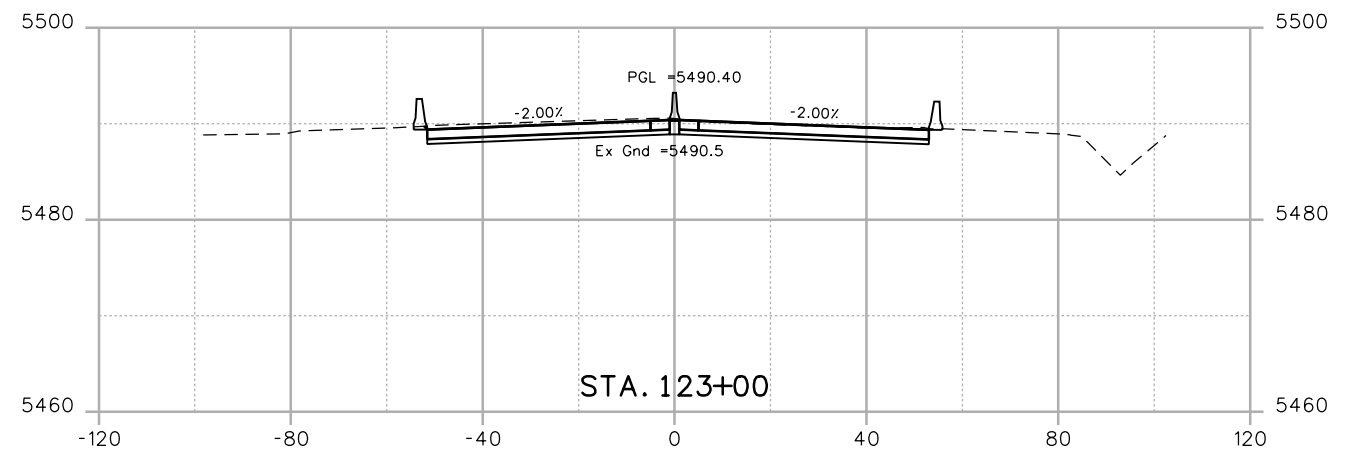
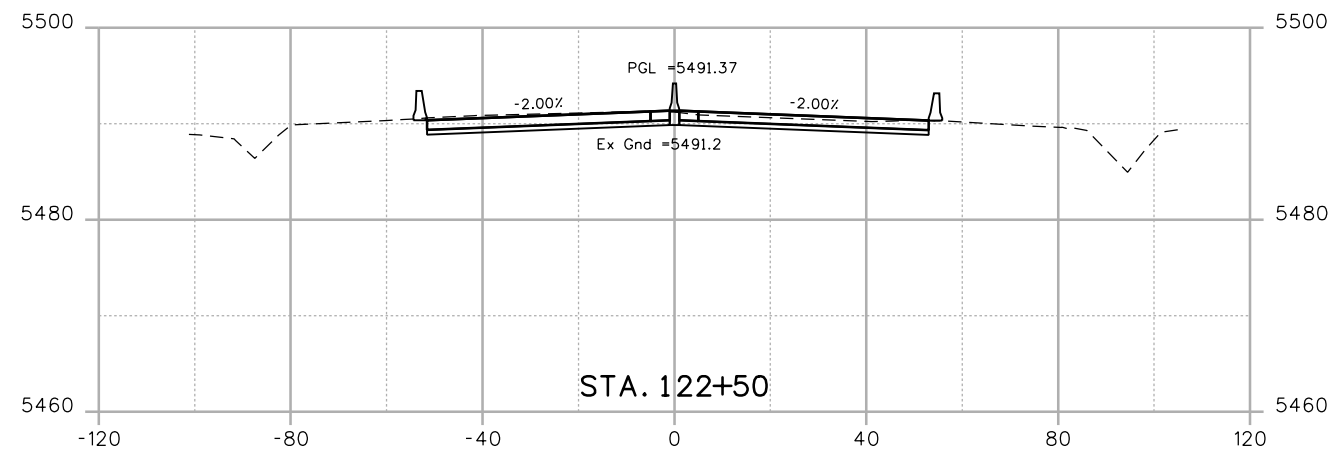
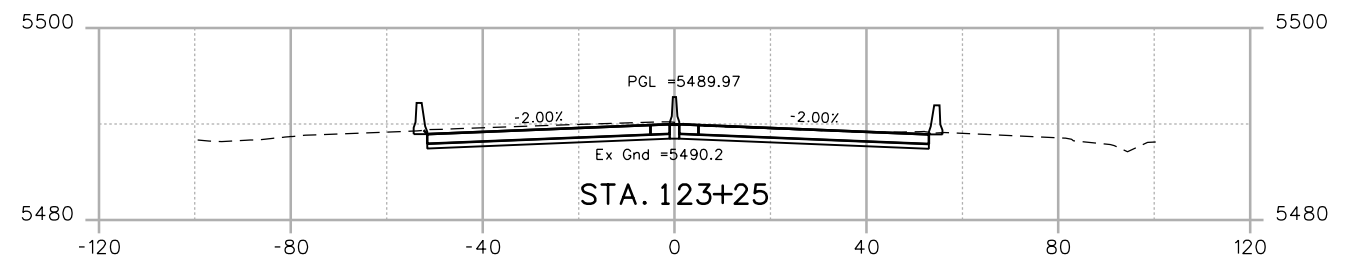
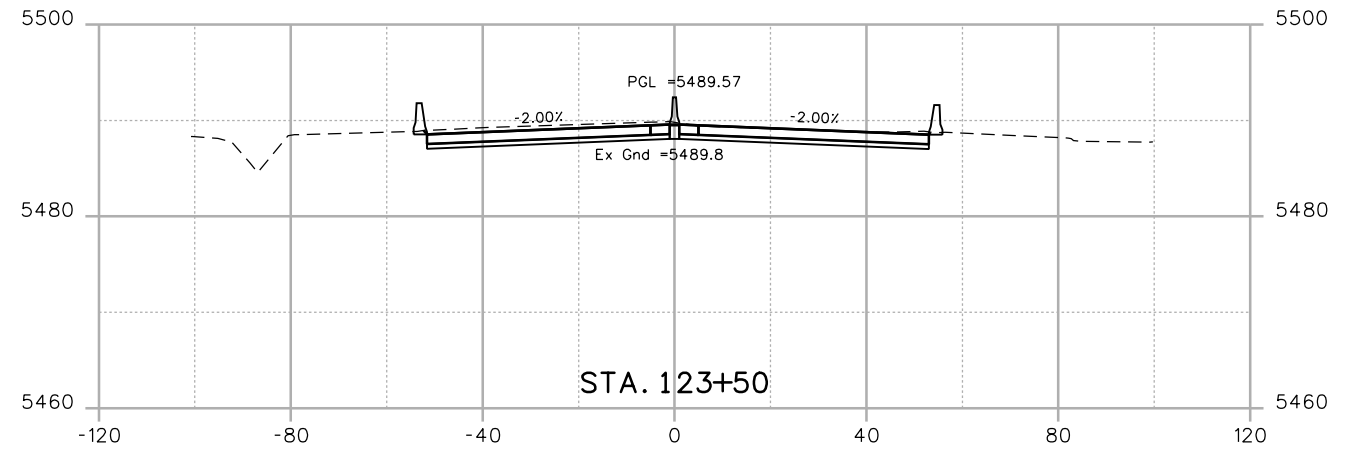
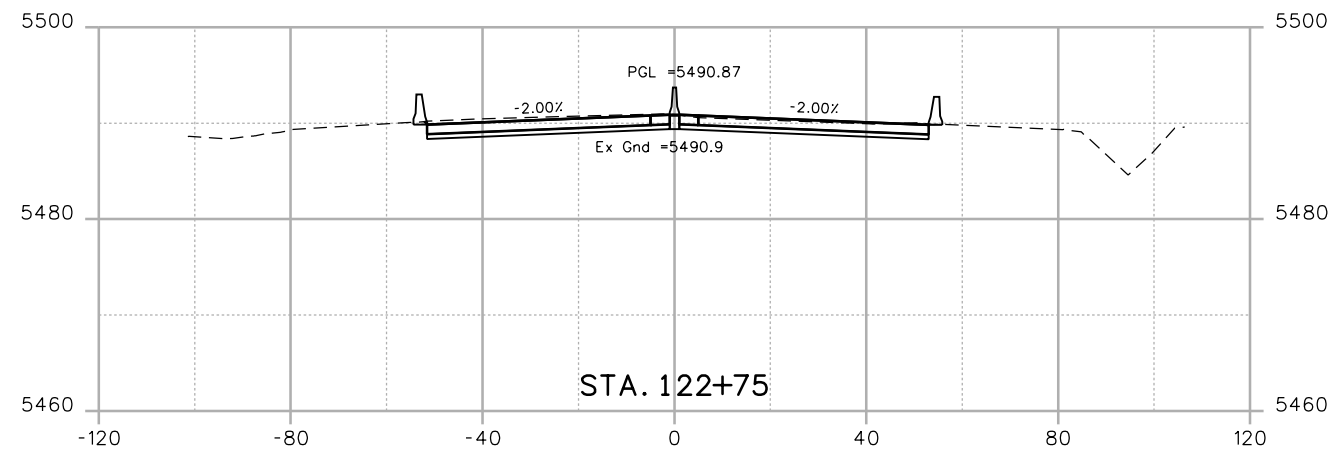
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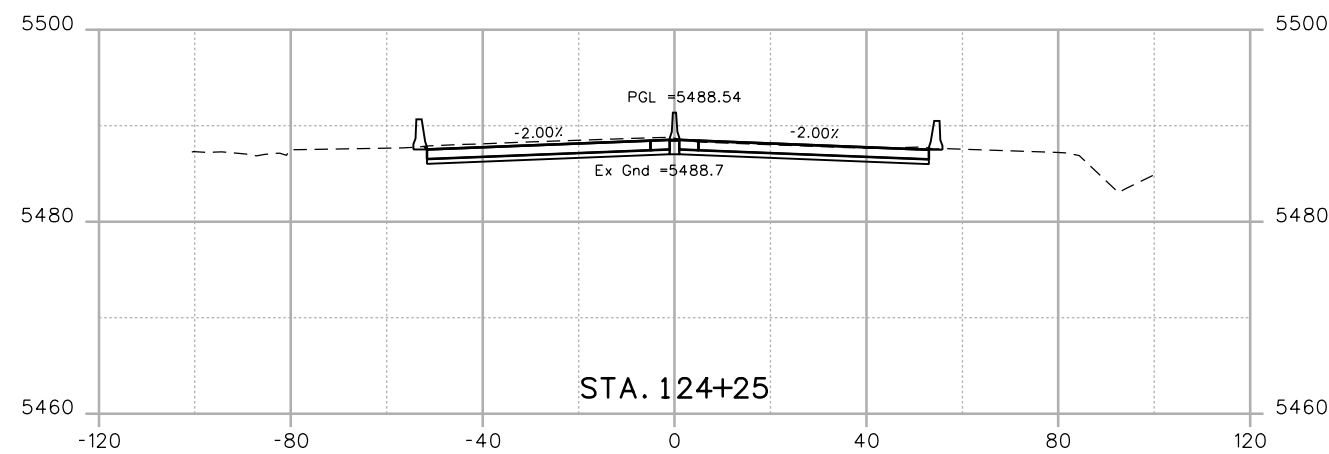
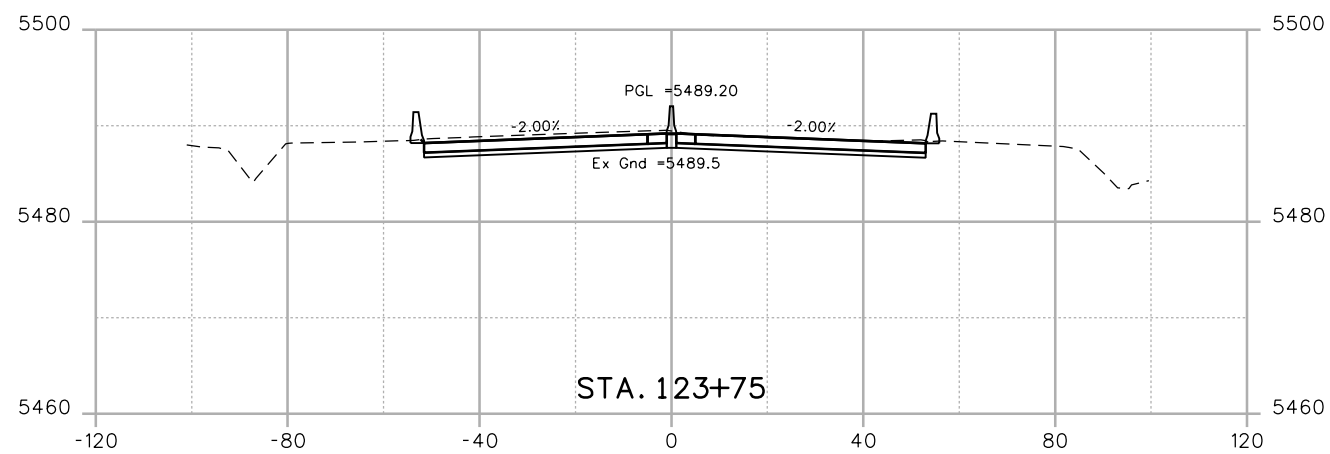
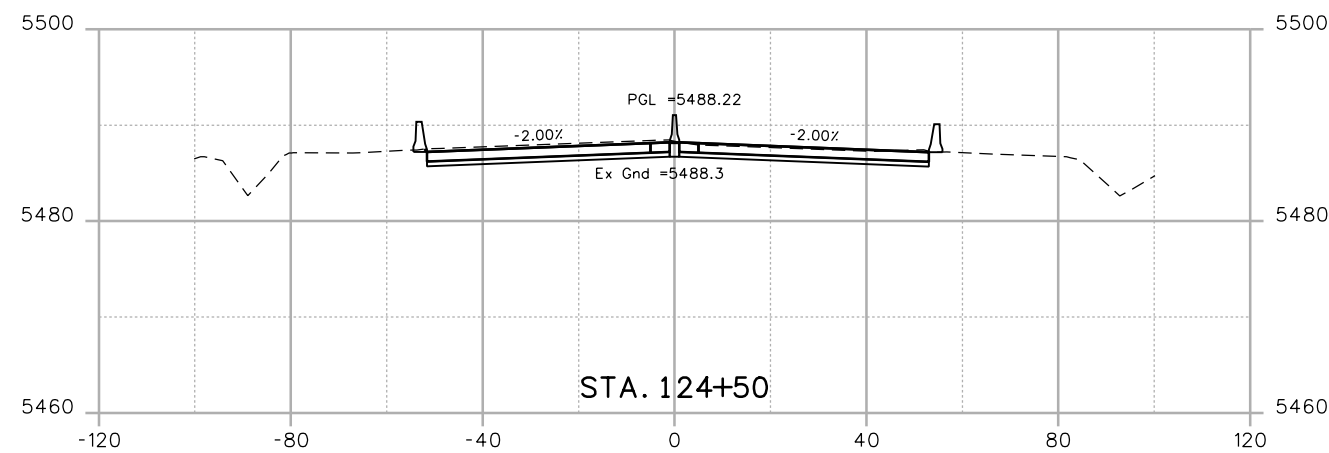
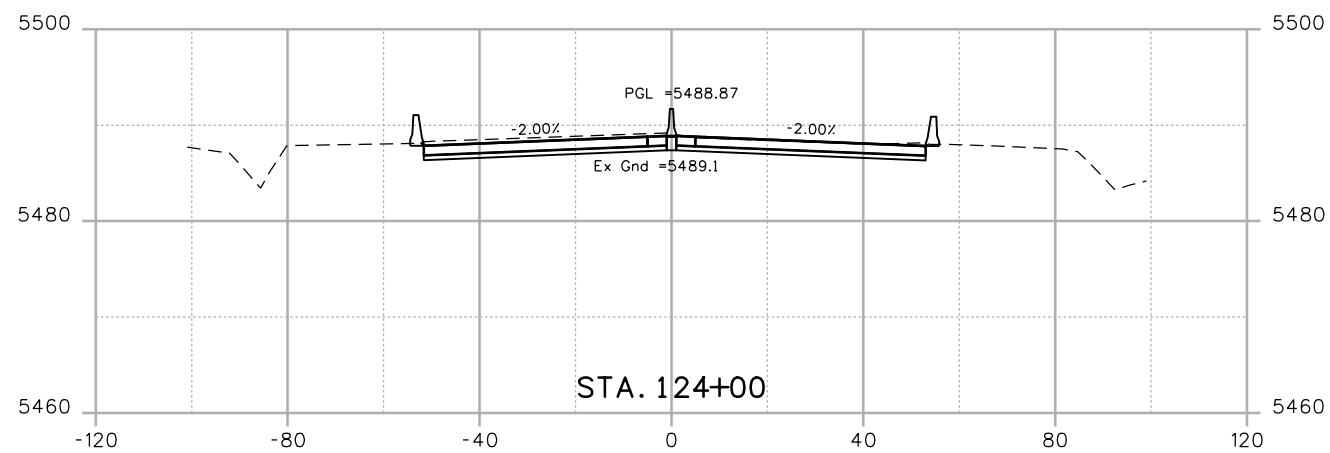
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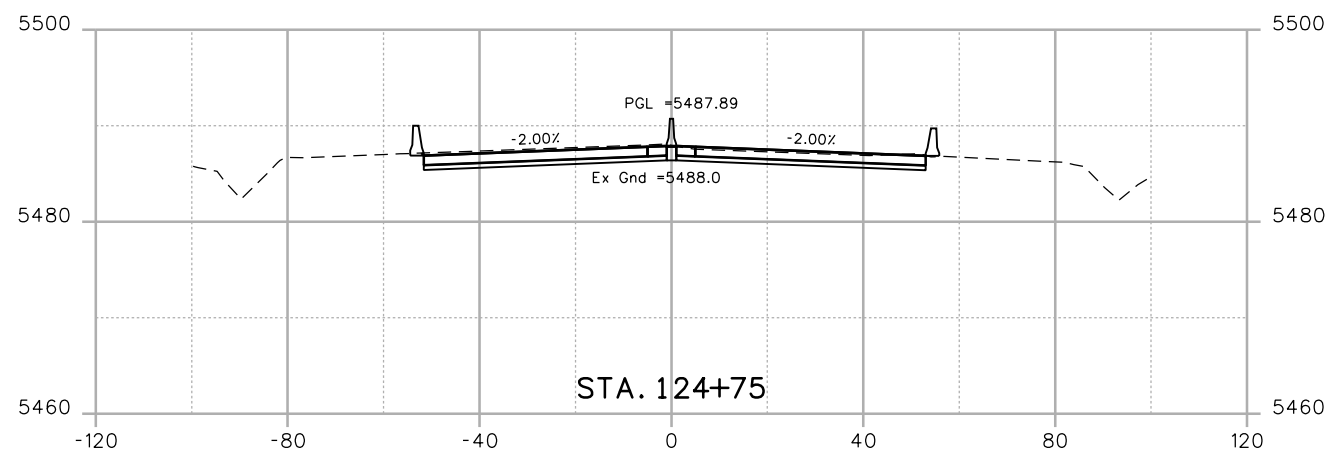
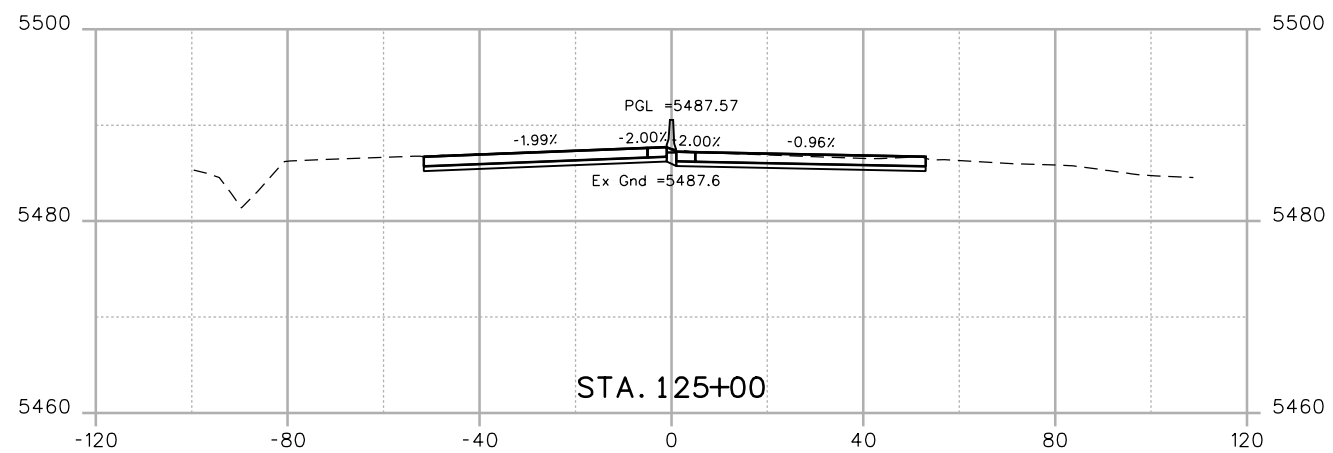
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Region 1 **KPB**

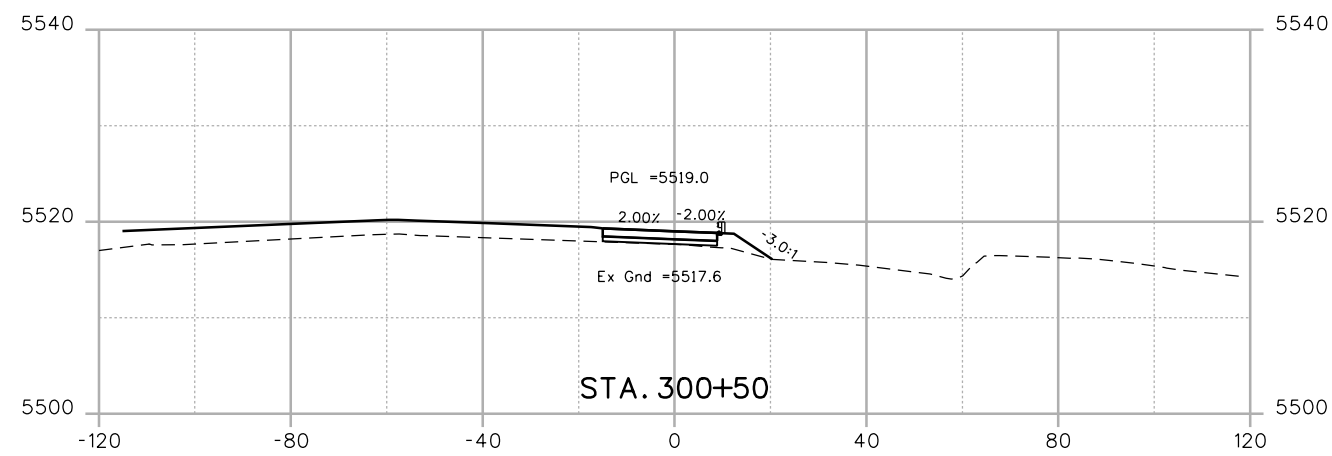
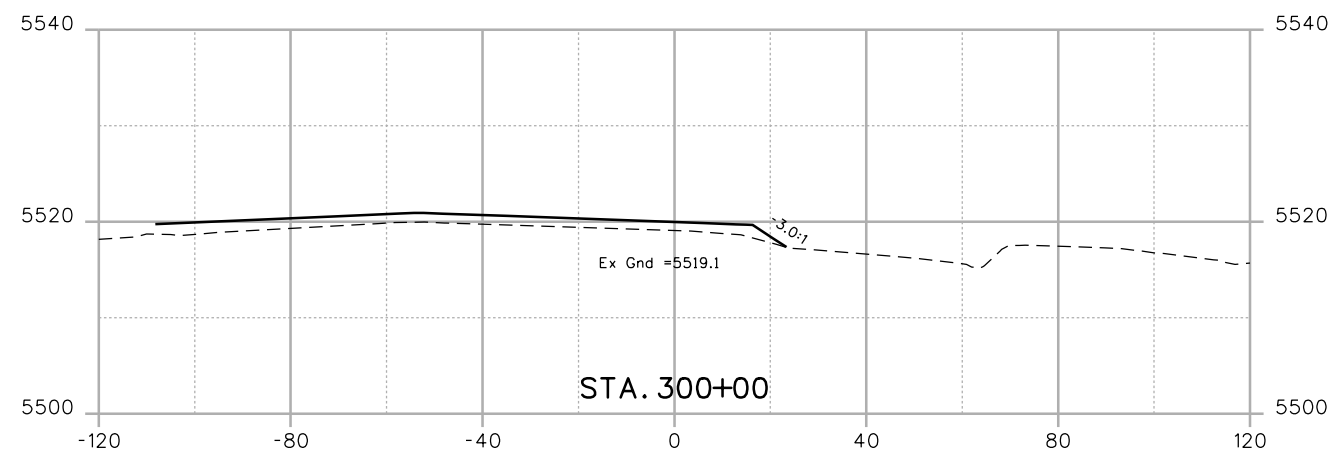
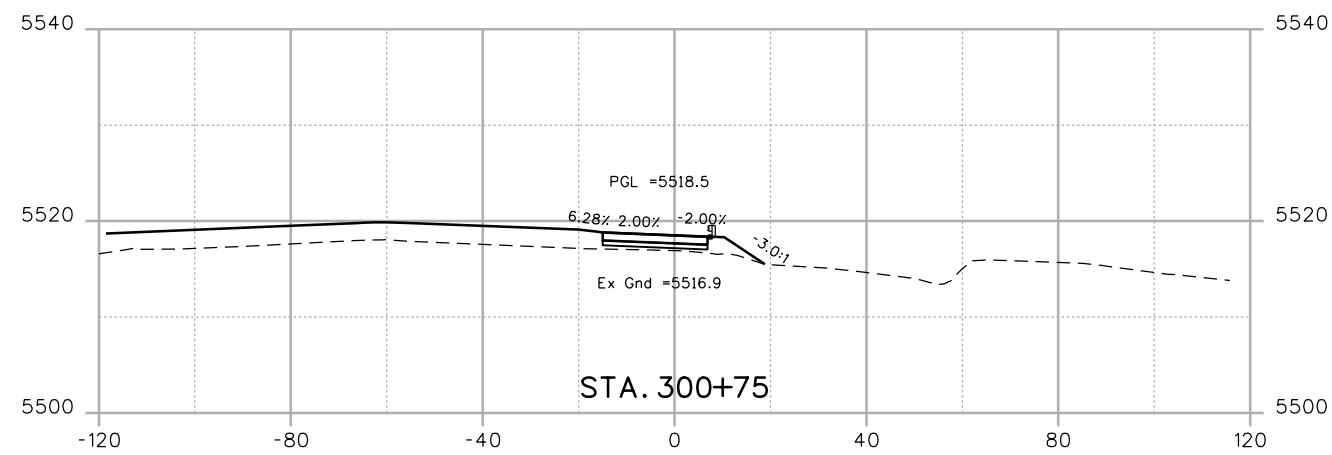
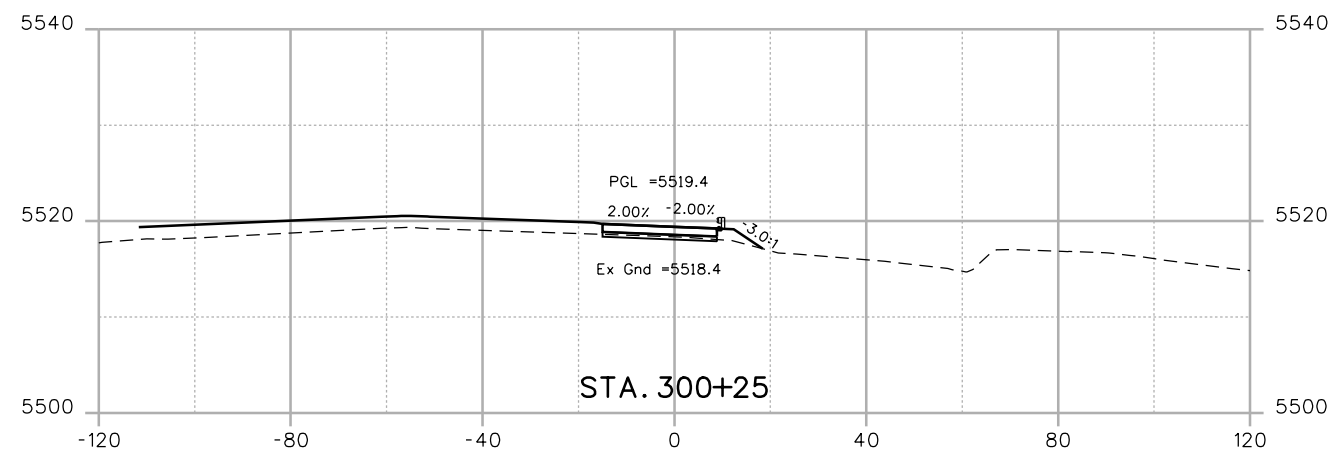
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Unit Information	Unit Leader

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Region 1 **KPB**

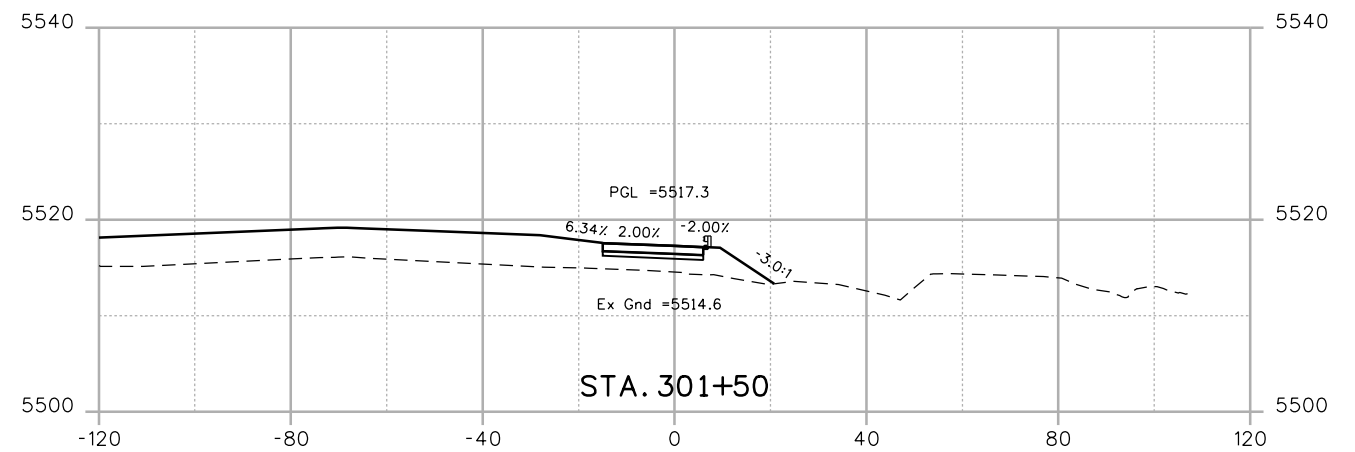
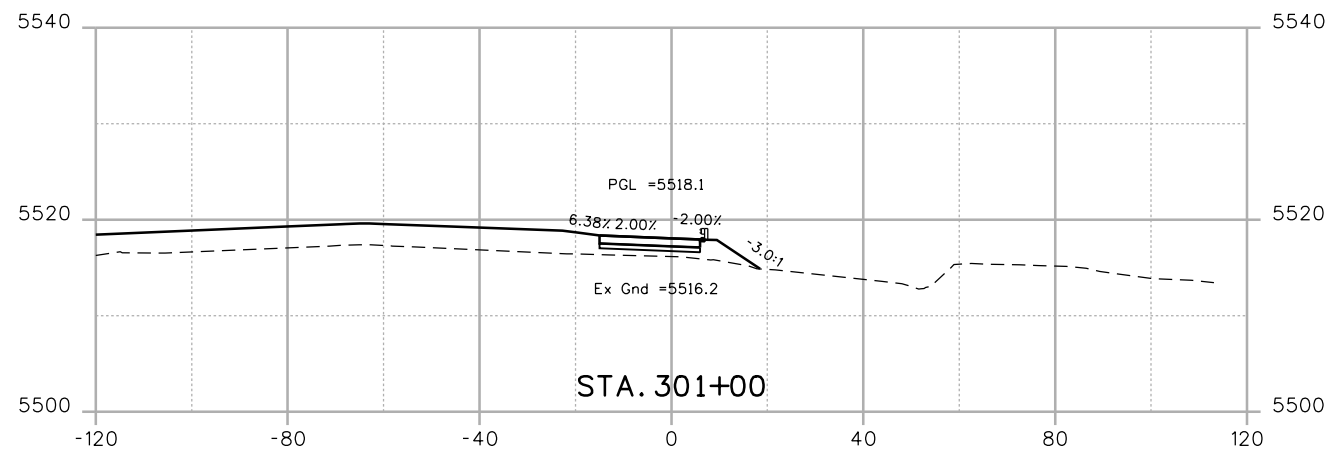
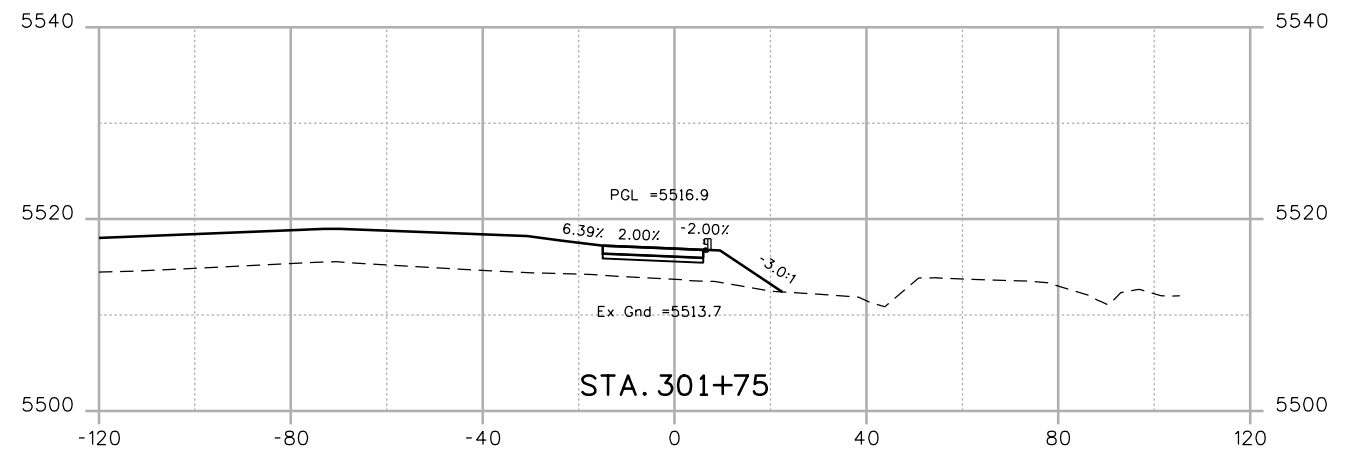
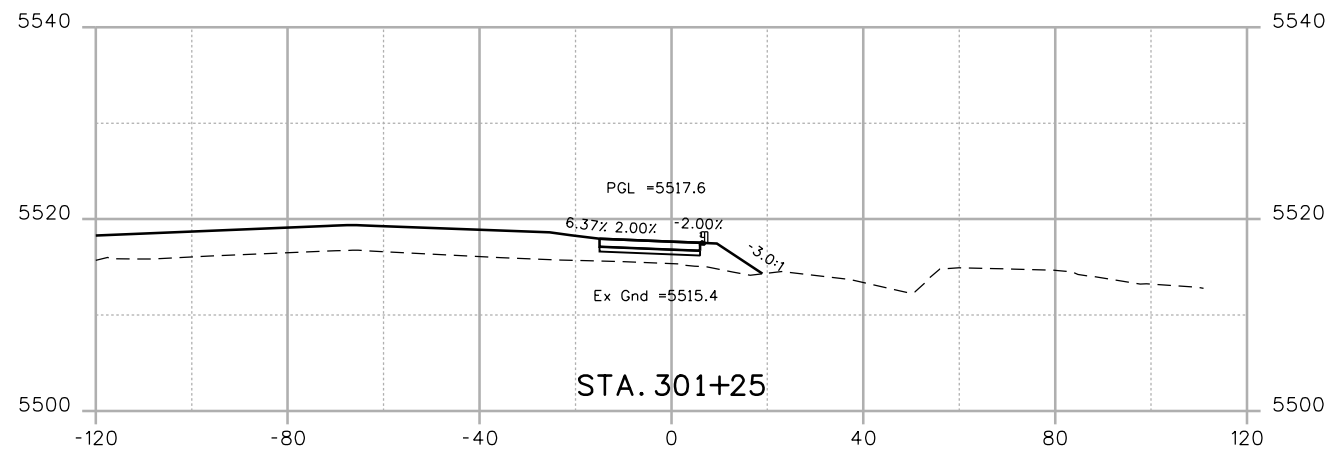
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Project No./Code
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19478
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Unit Information	Unit Leader

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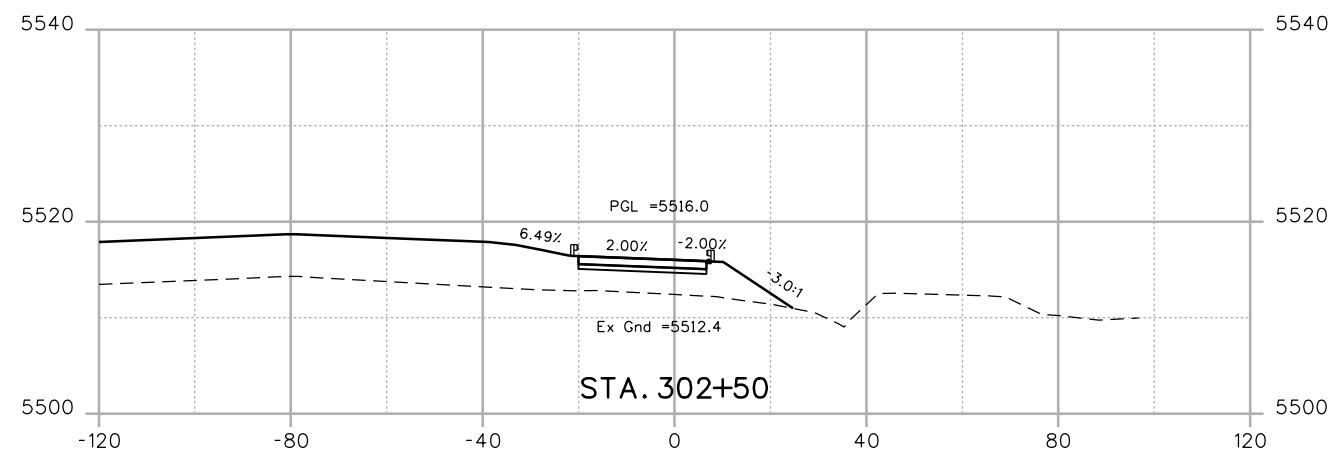
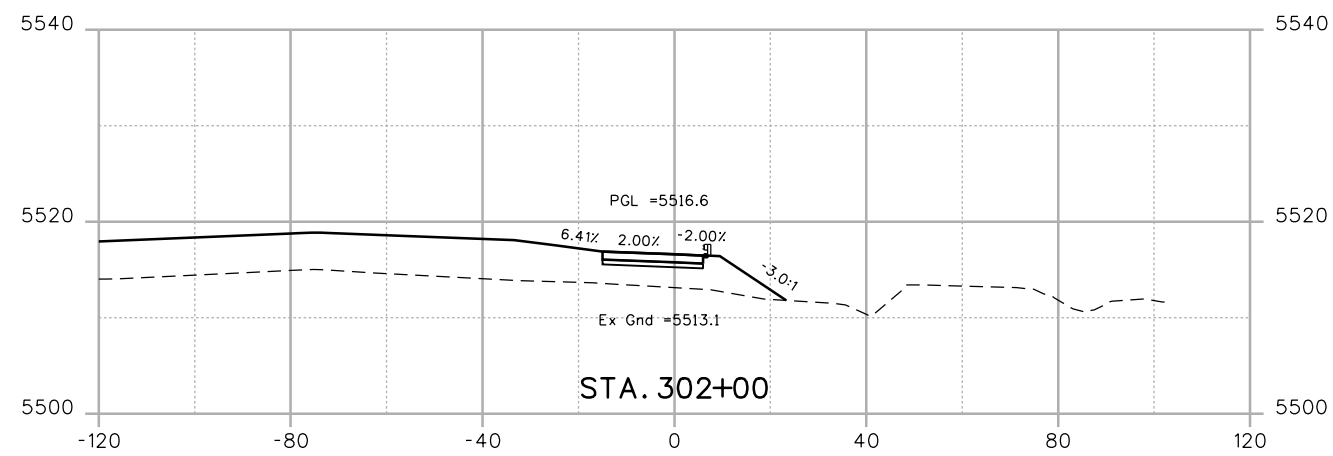
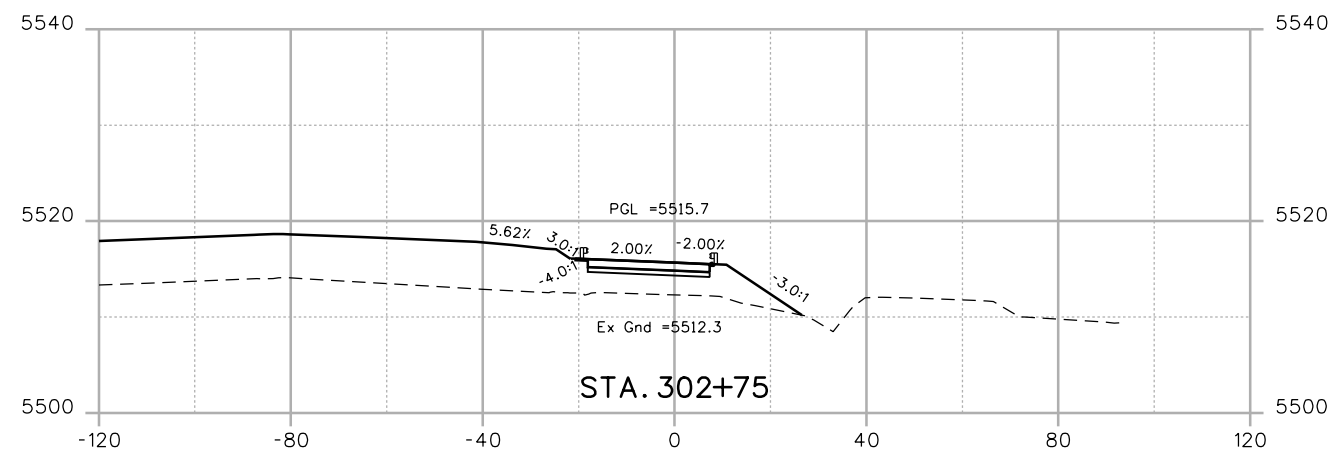
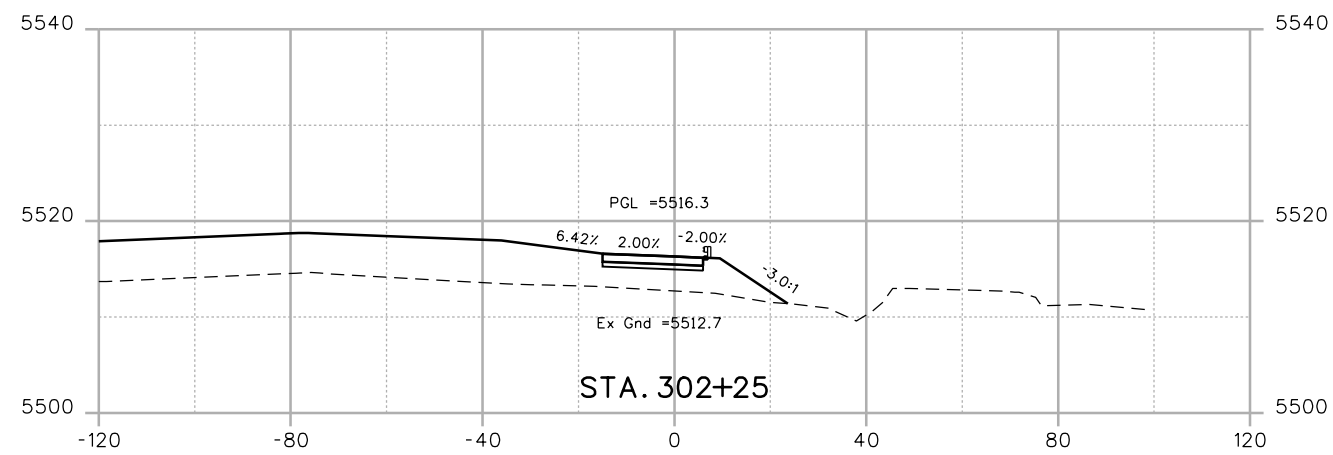
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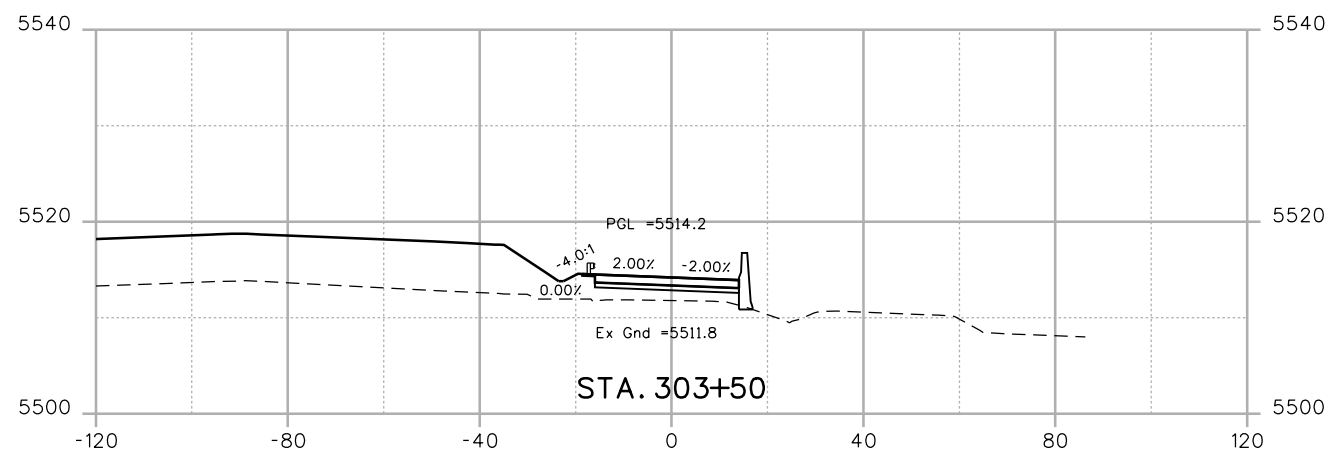
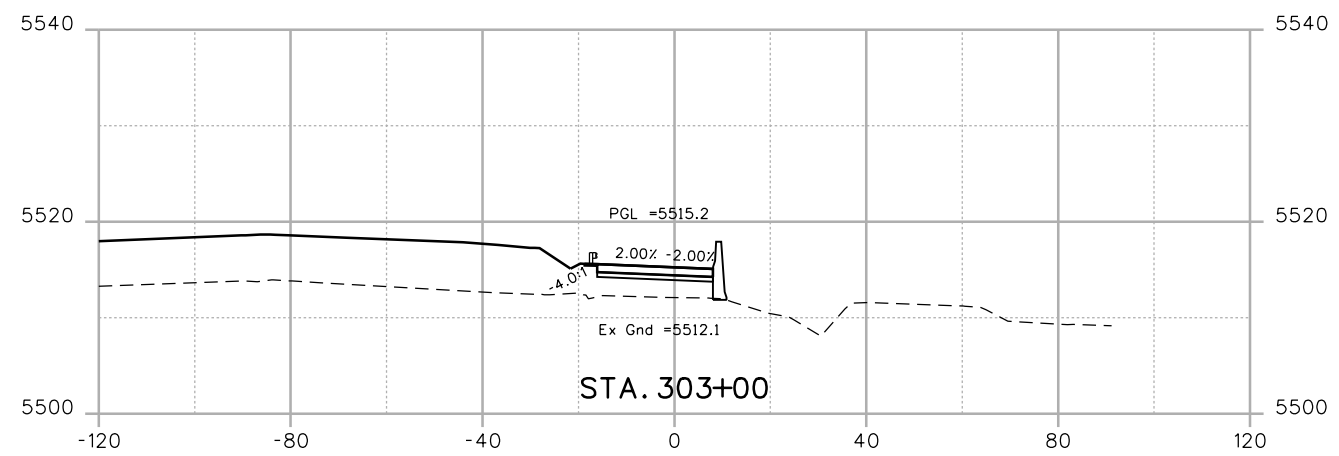
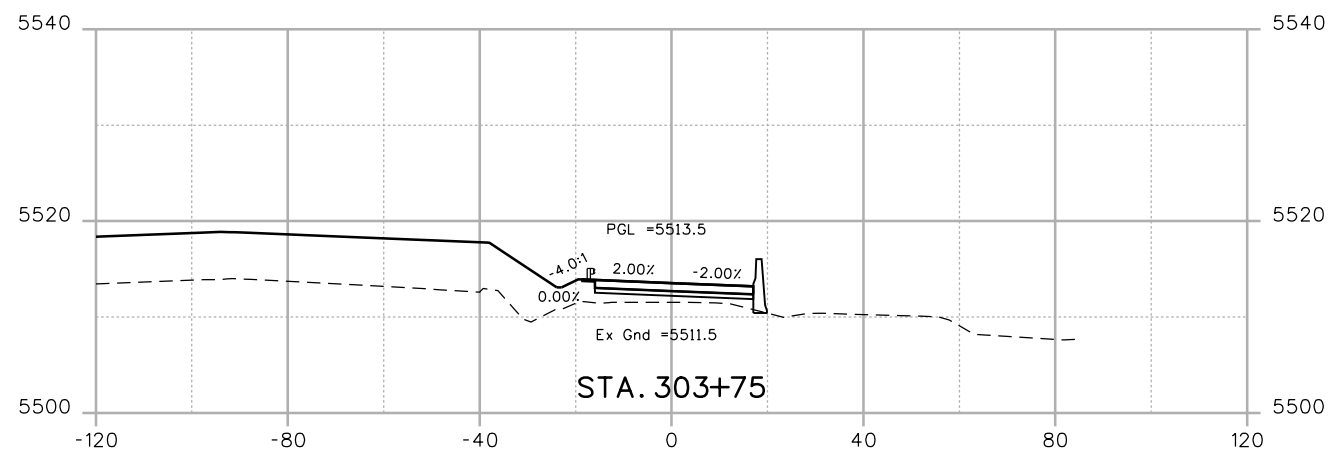
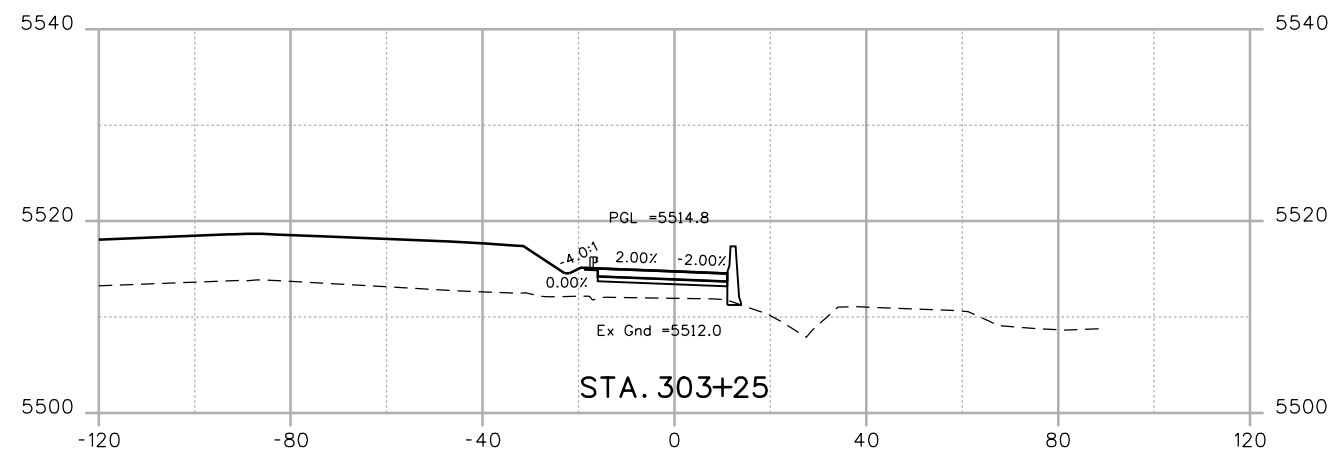
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Project No./Code
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Unit Information	Unit Leader

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Region 1 KPB

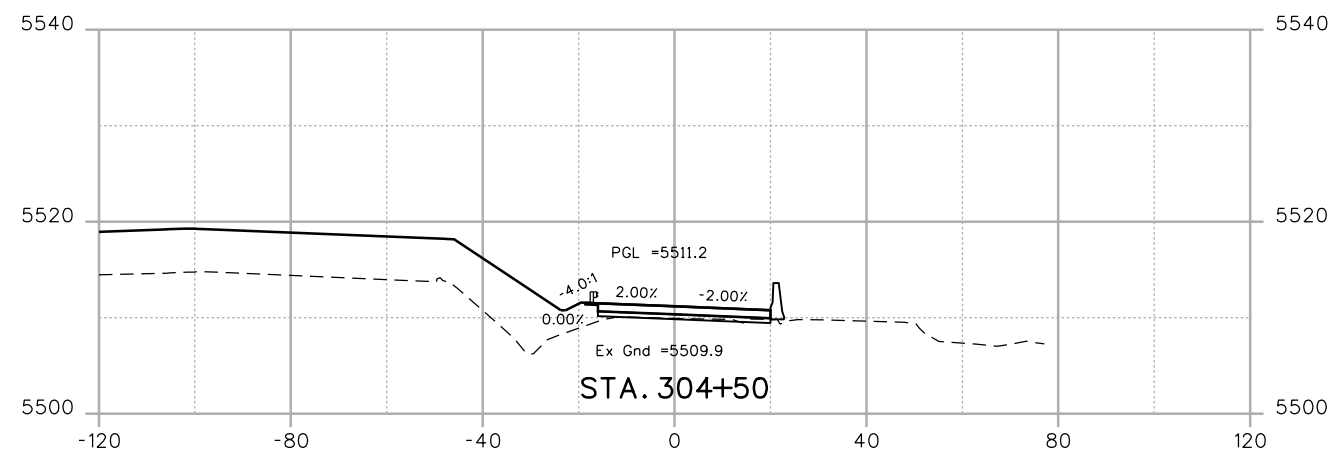
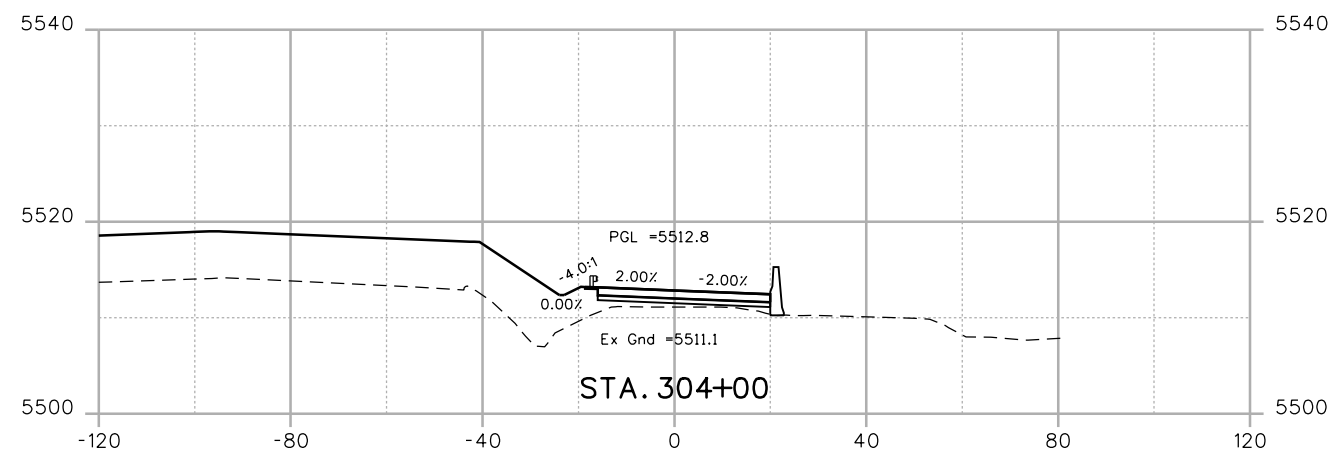
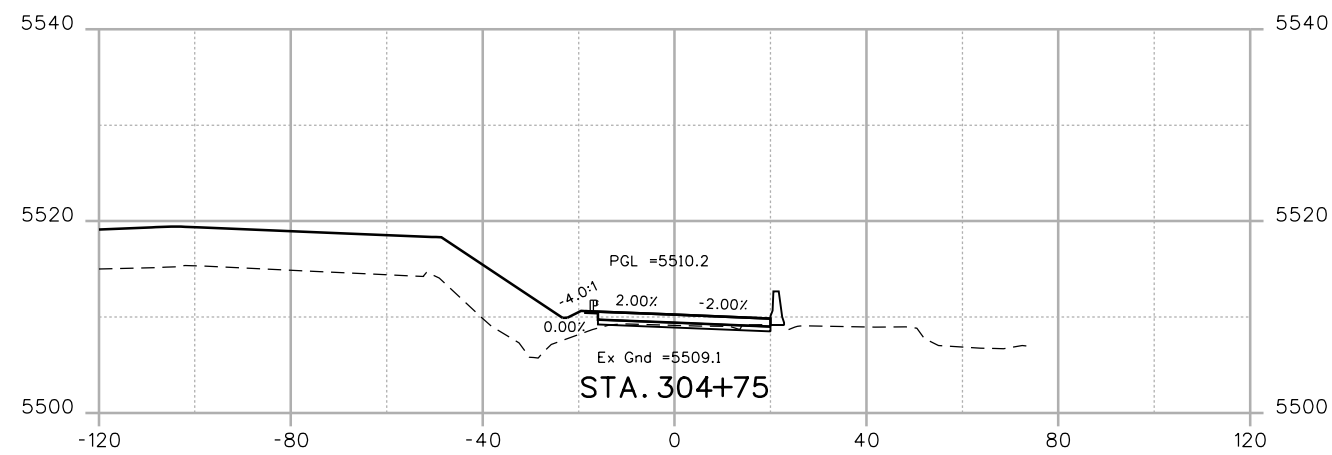
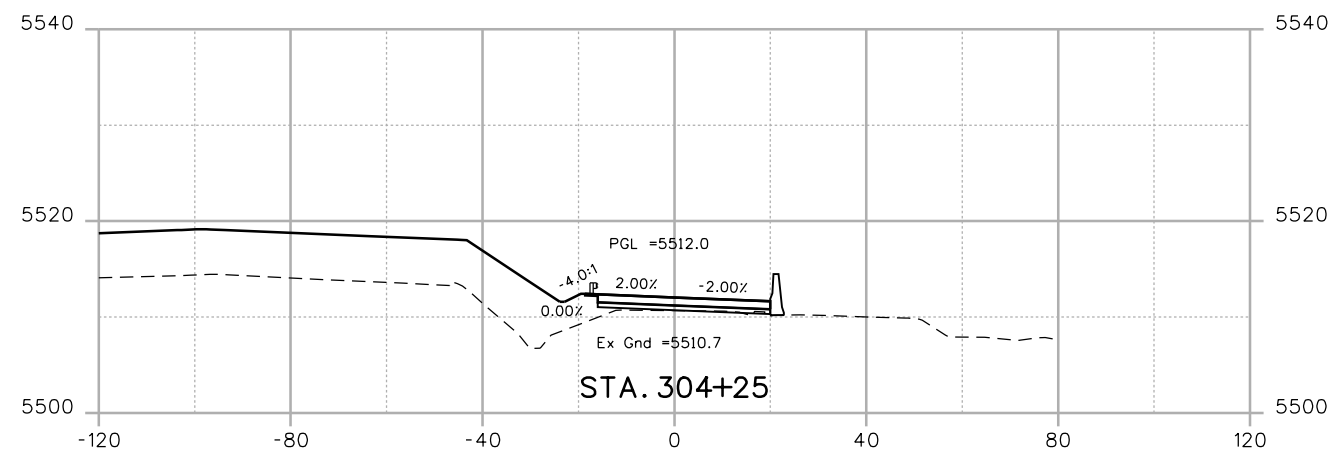
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Unit Information	Unit Leader

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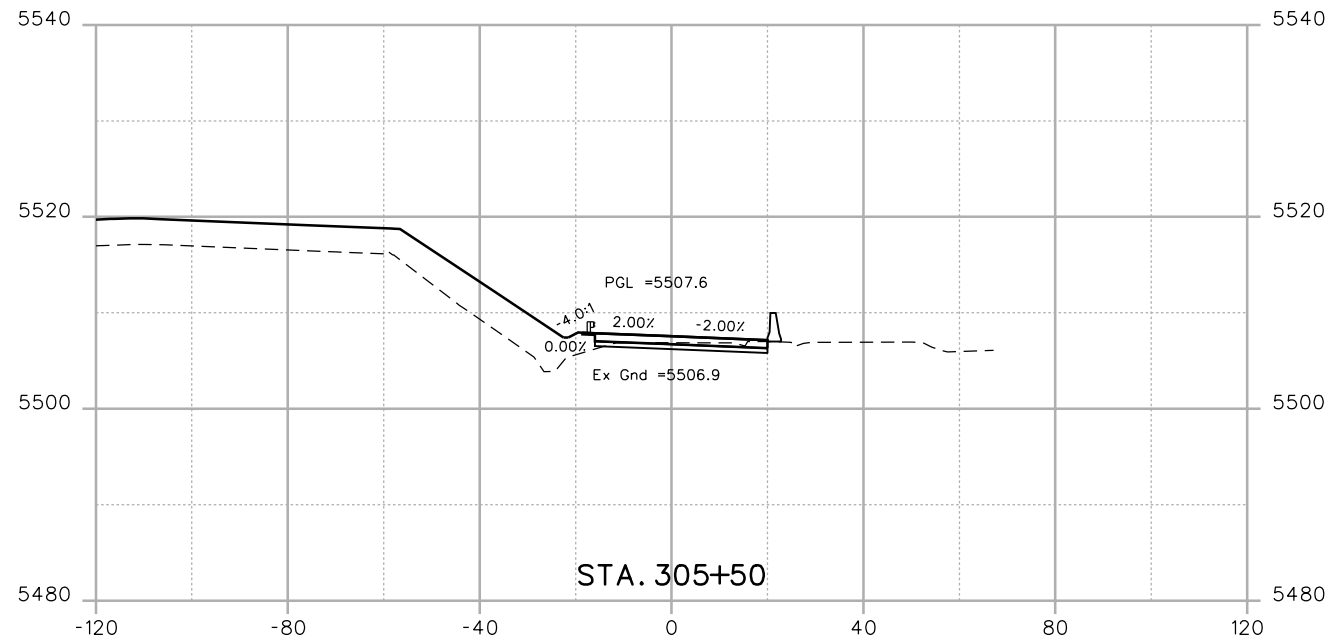
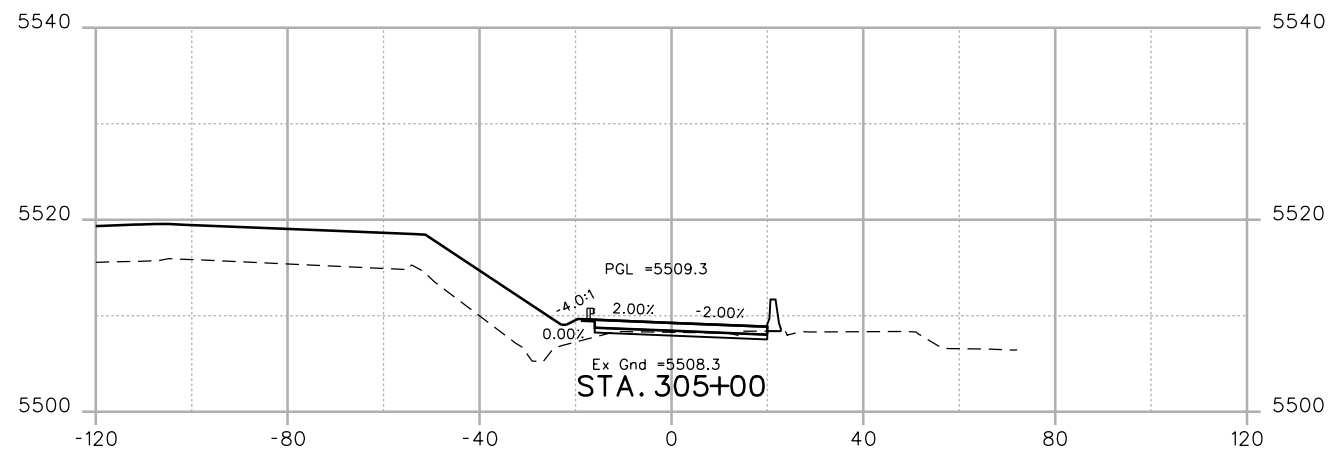
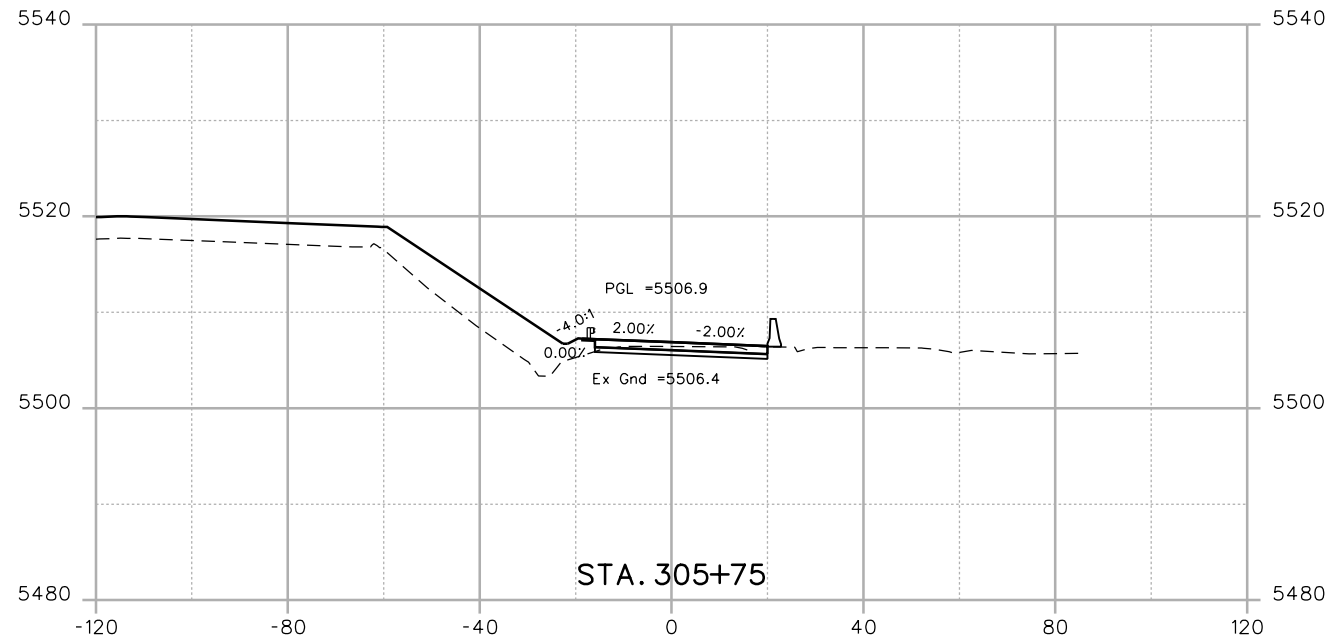
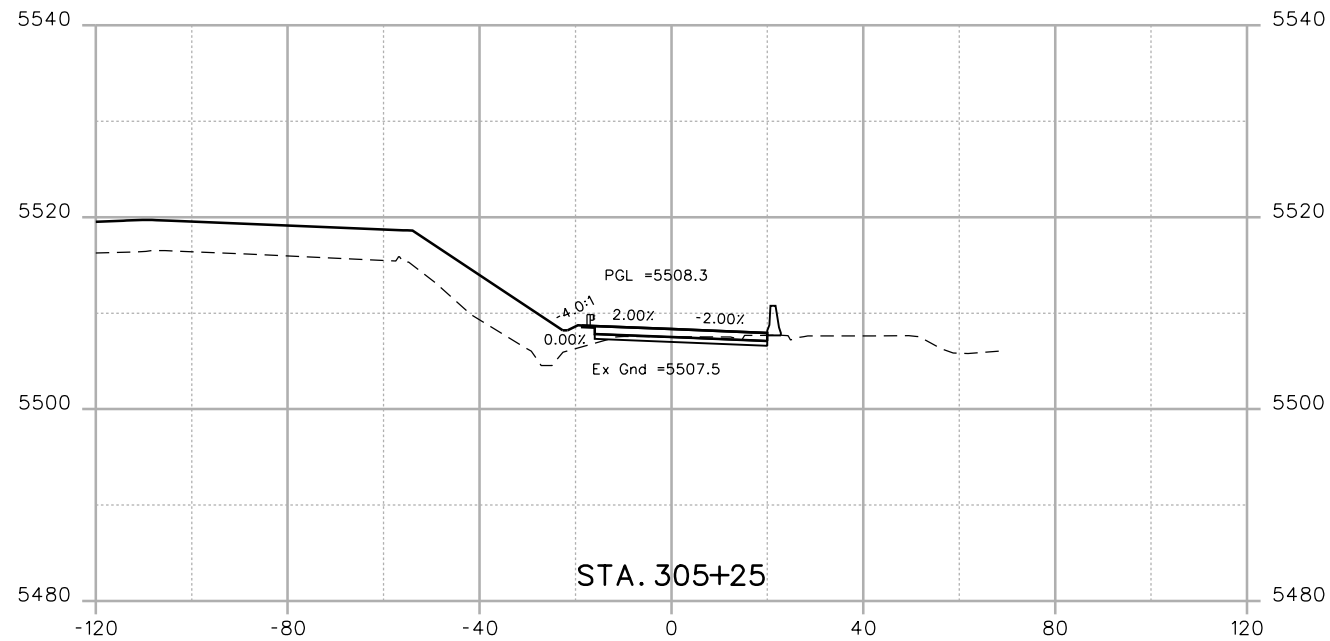
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Unit Information	Unit Leader

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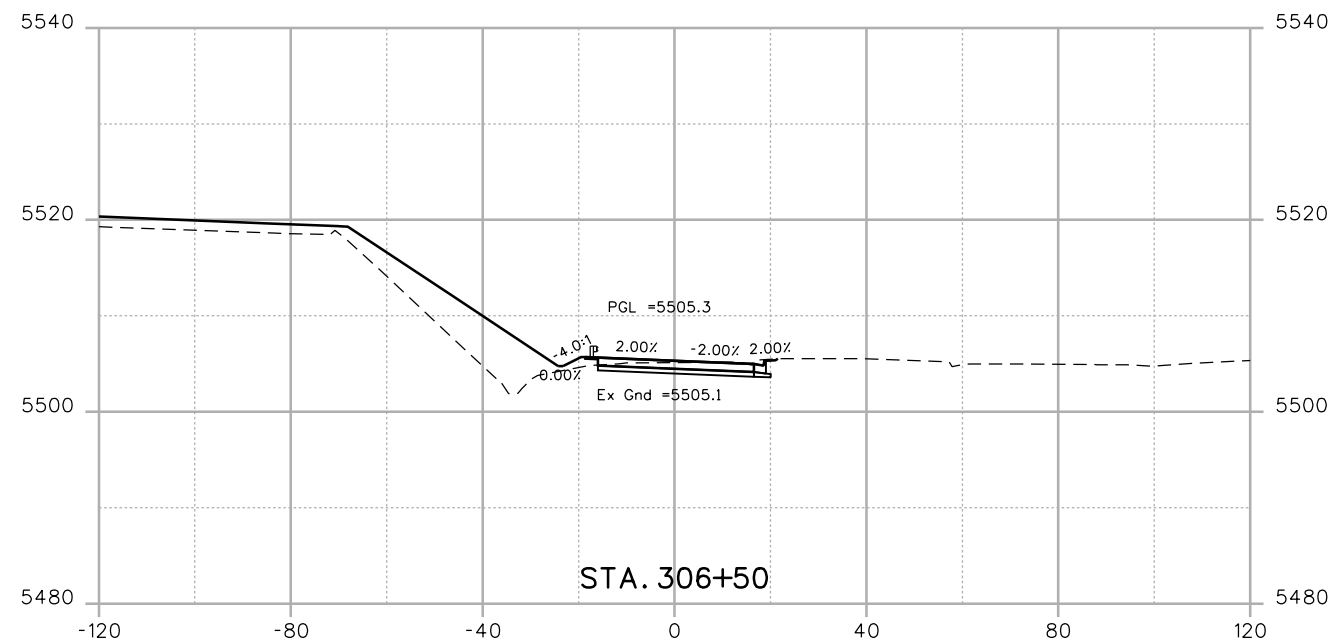
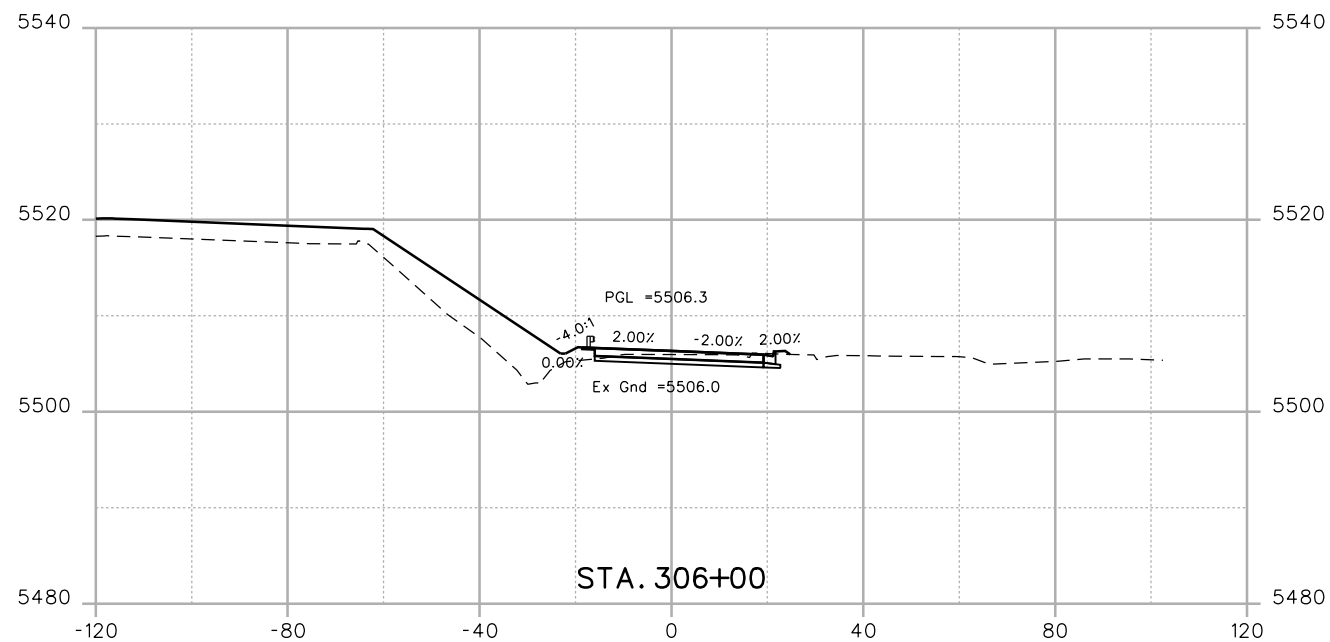
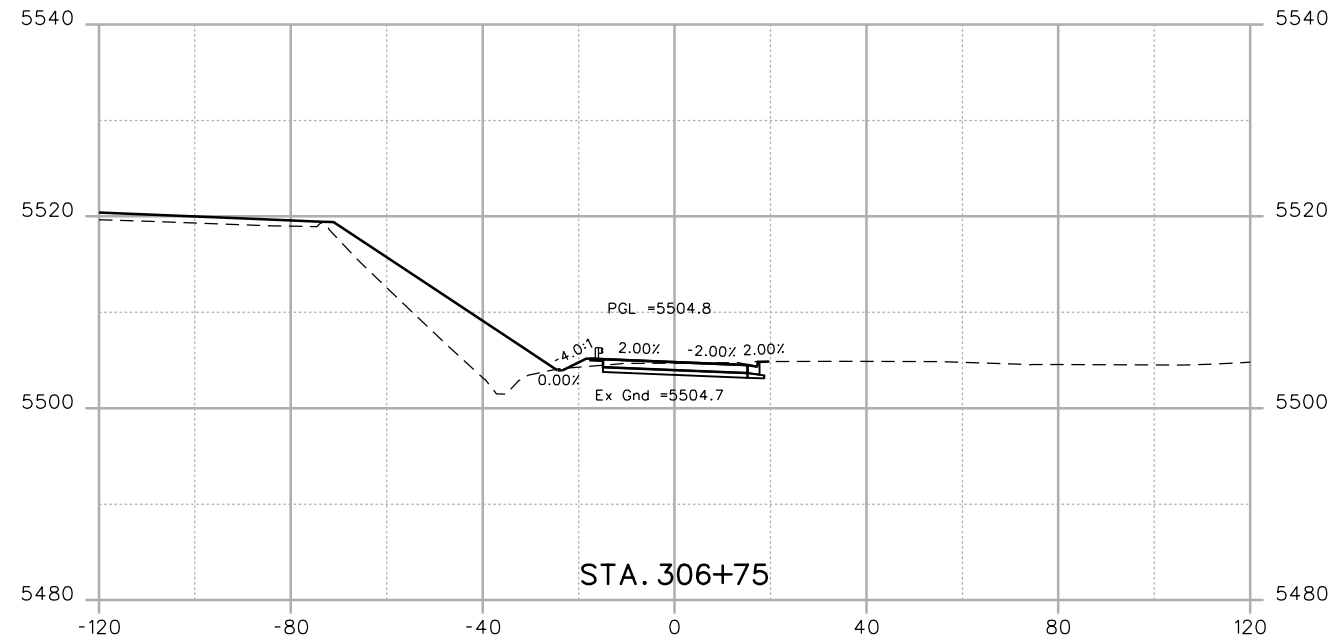
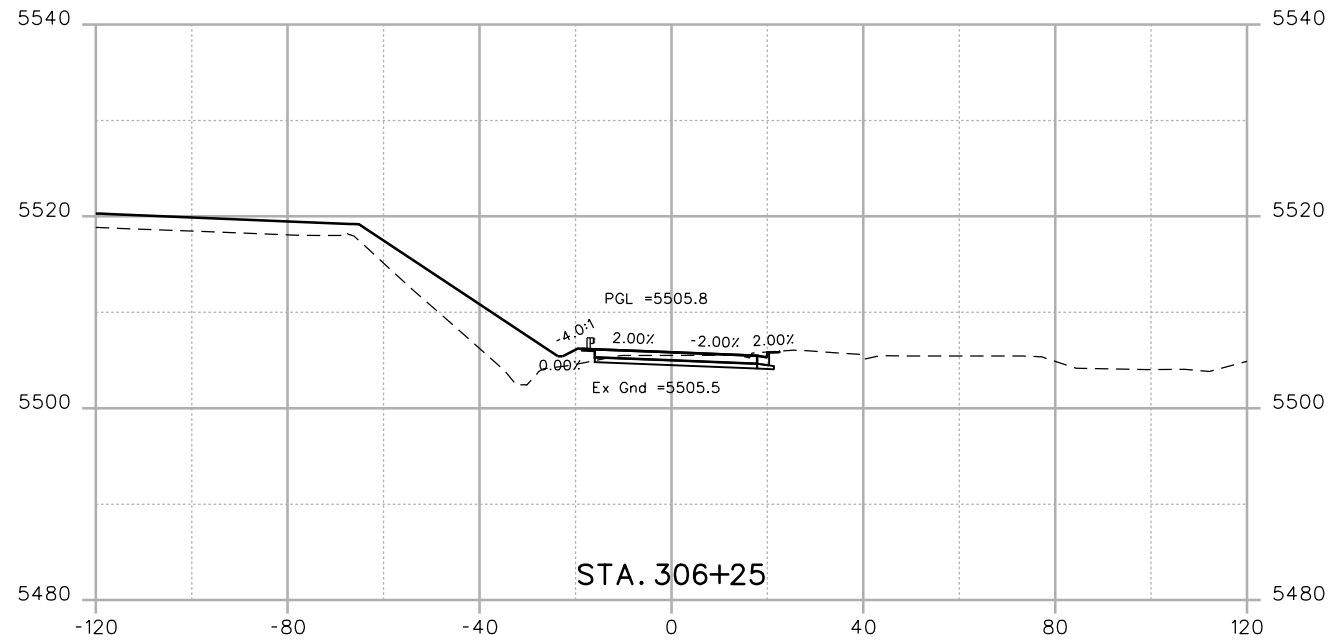
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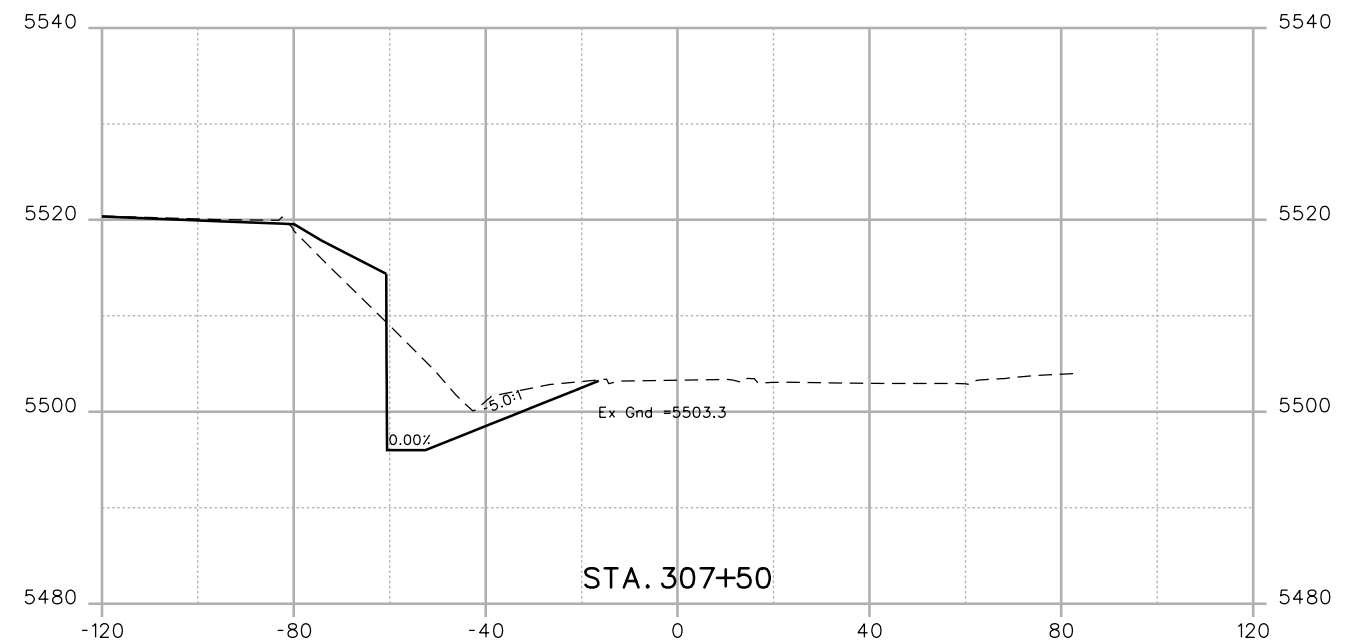
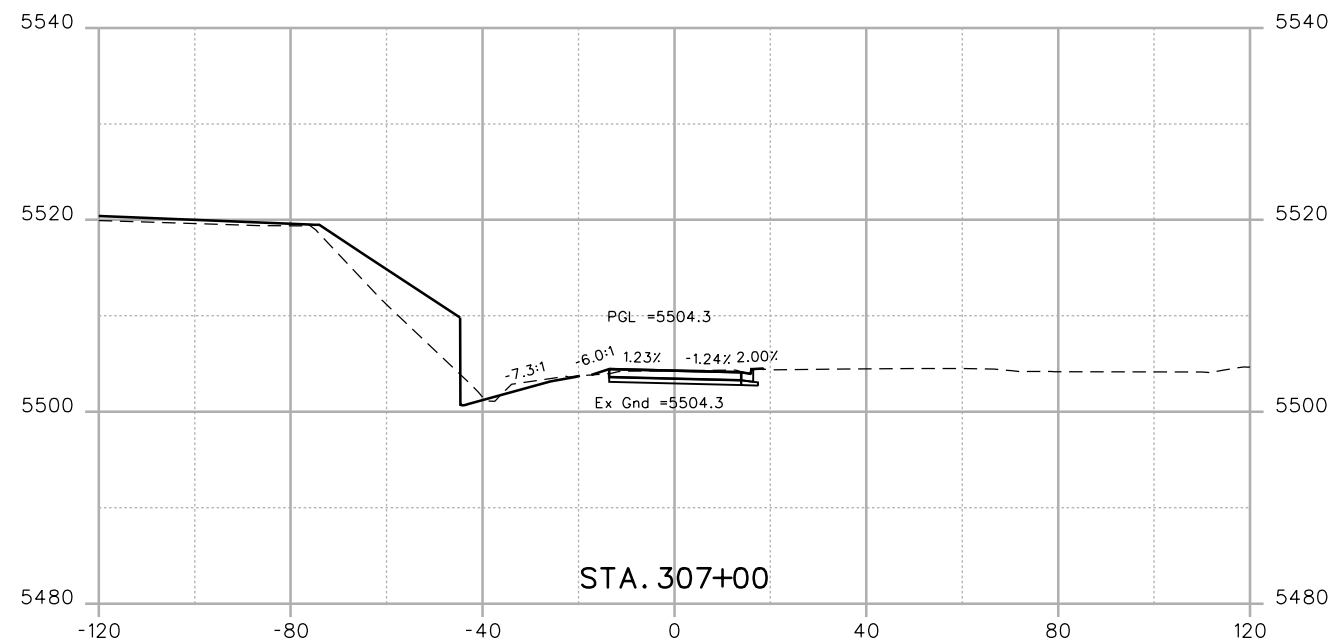
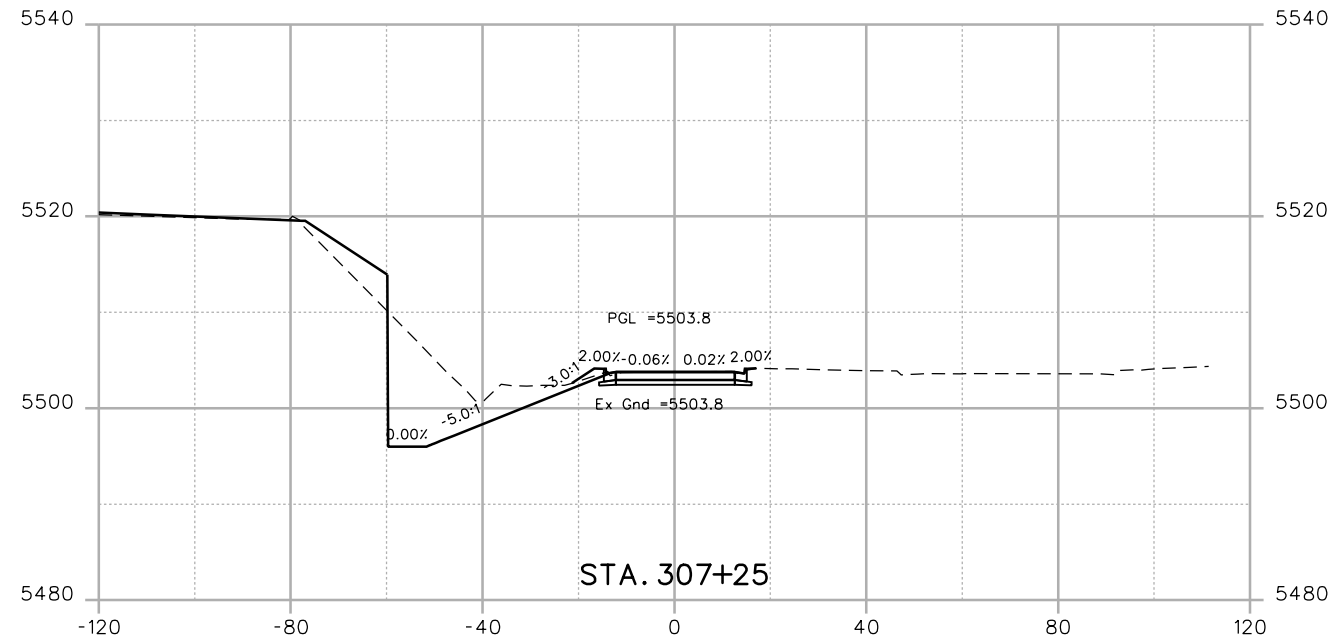
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Project No./Code
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Region 1 **KPB**

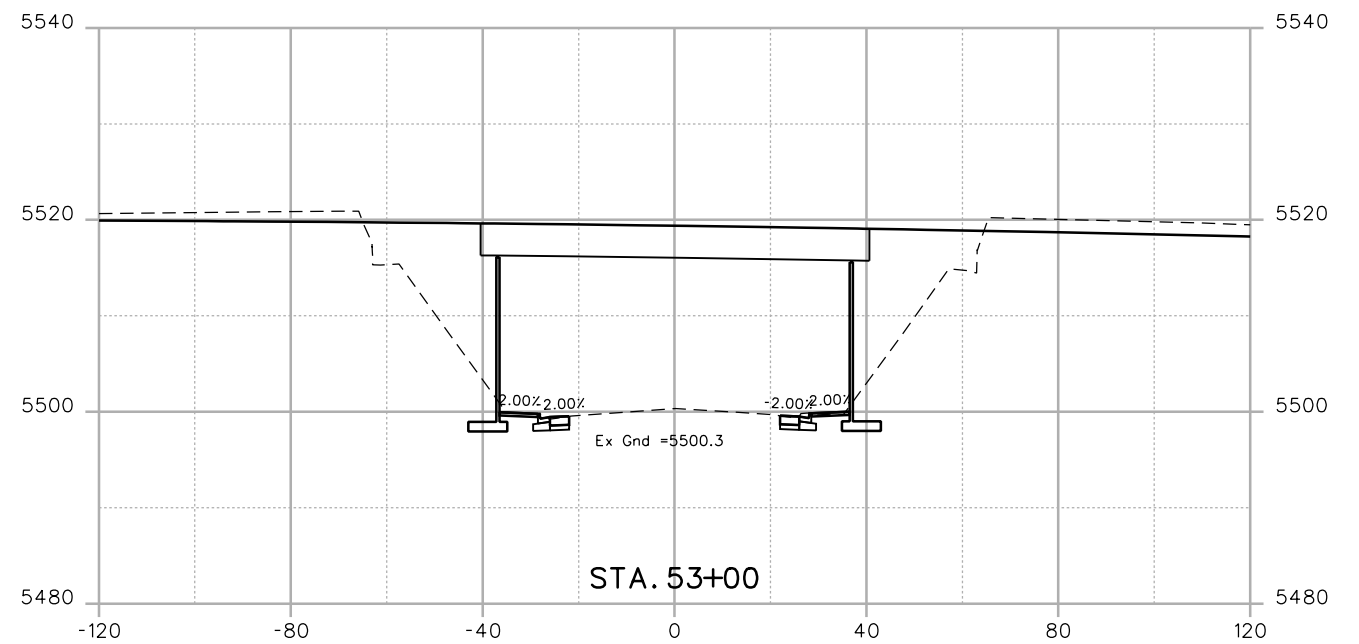
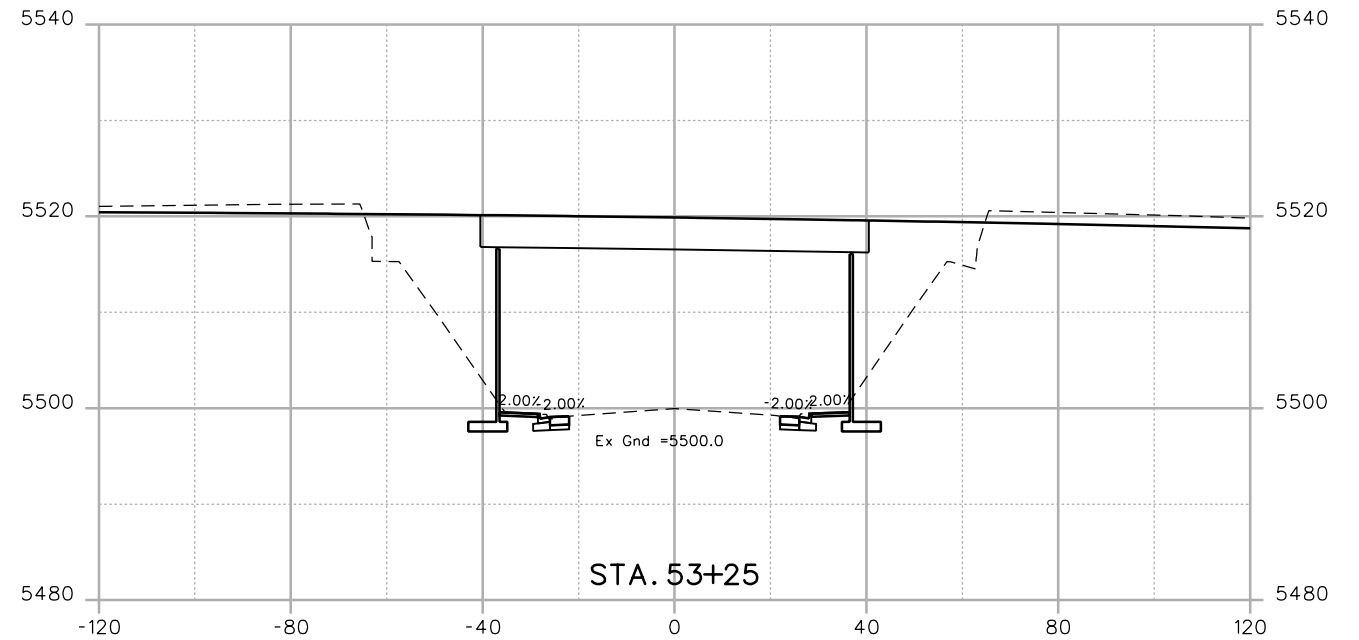
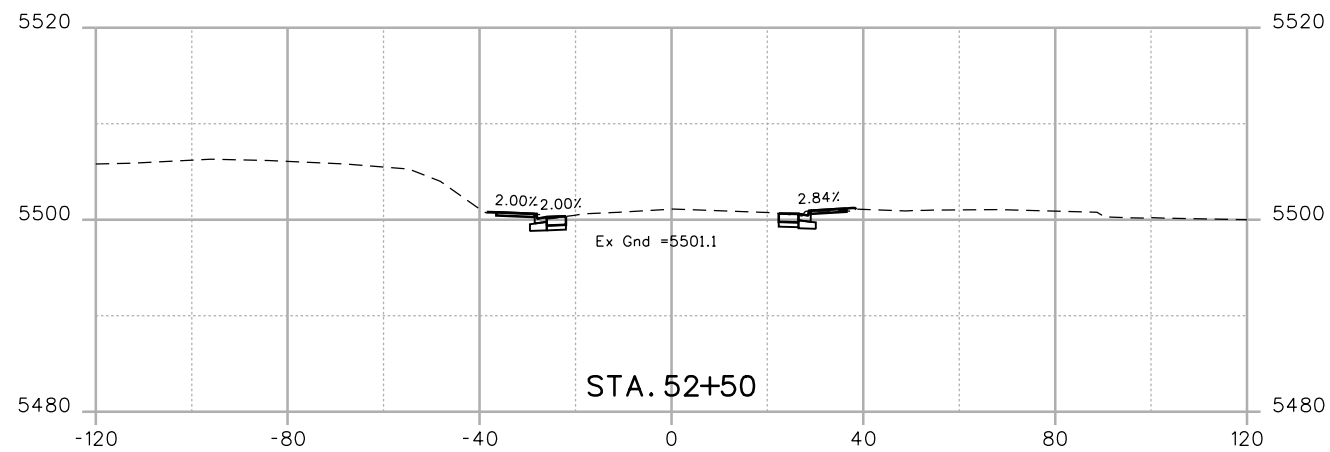
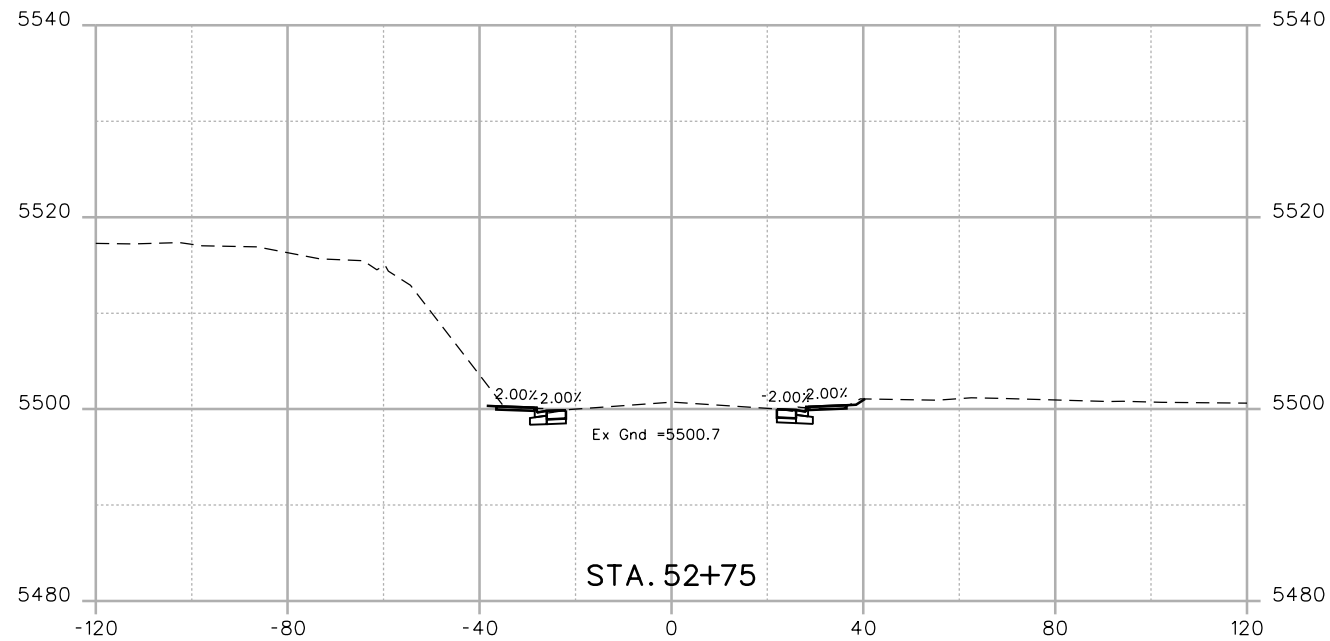
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Project No./Code
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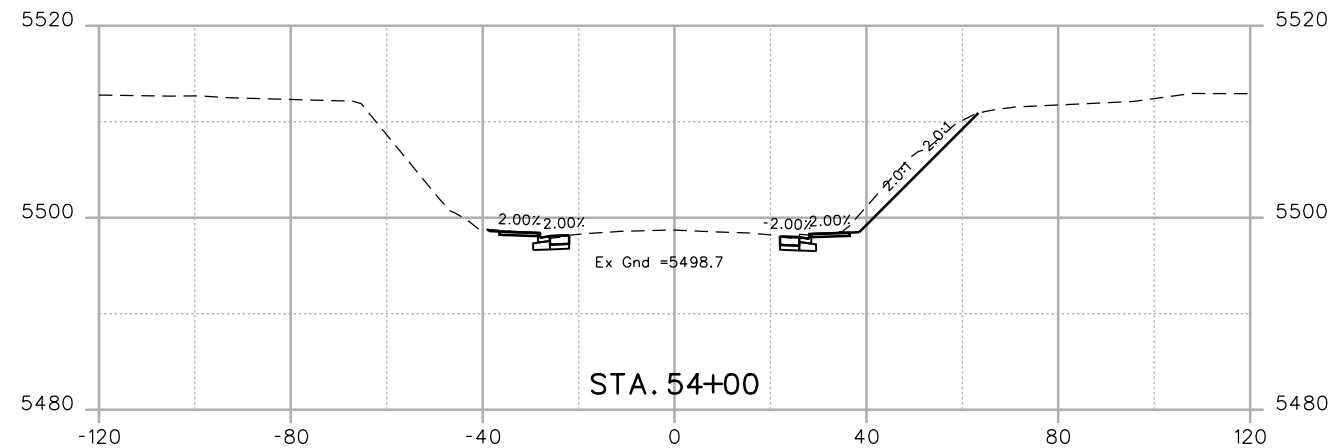
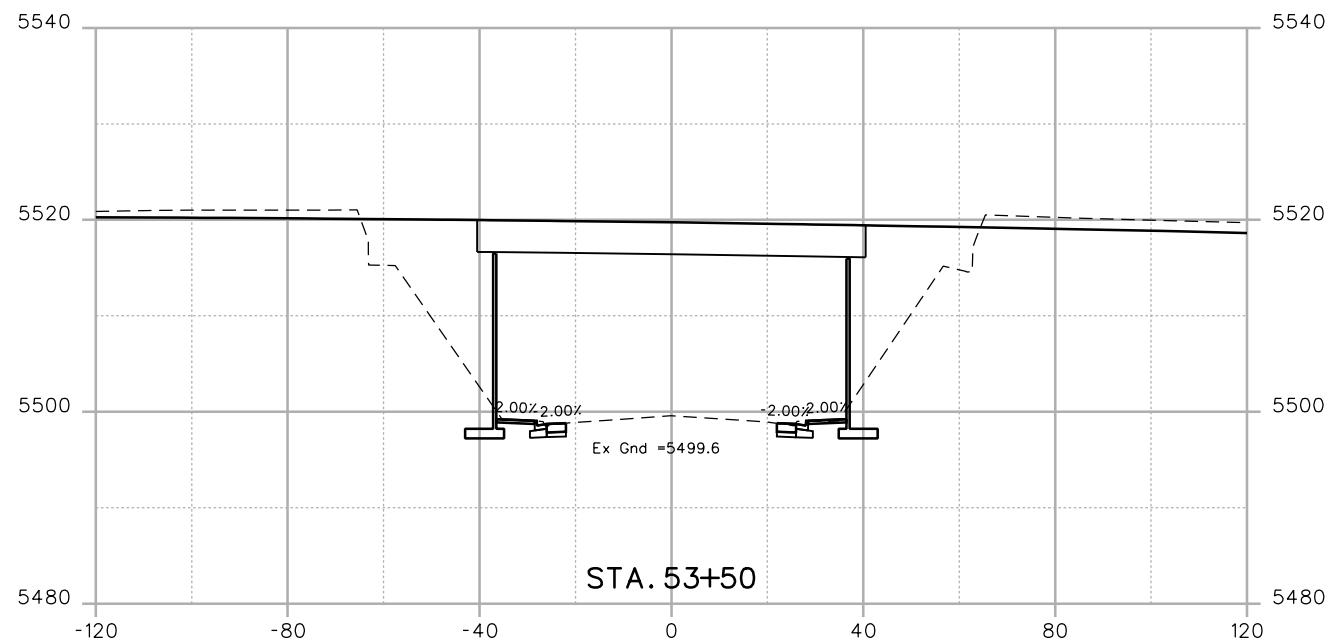
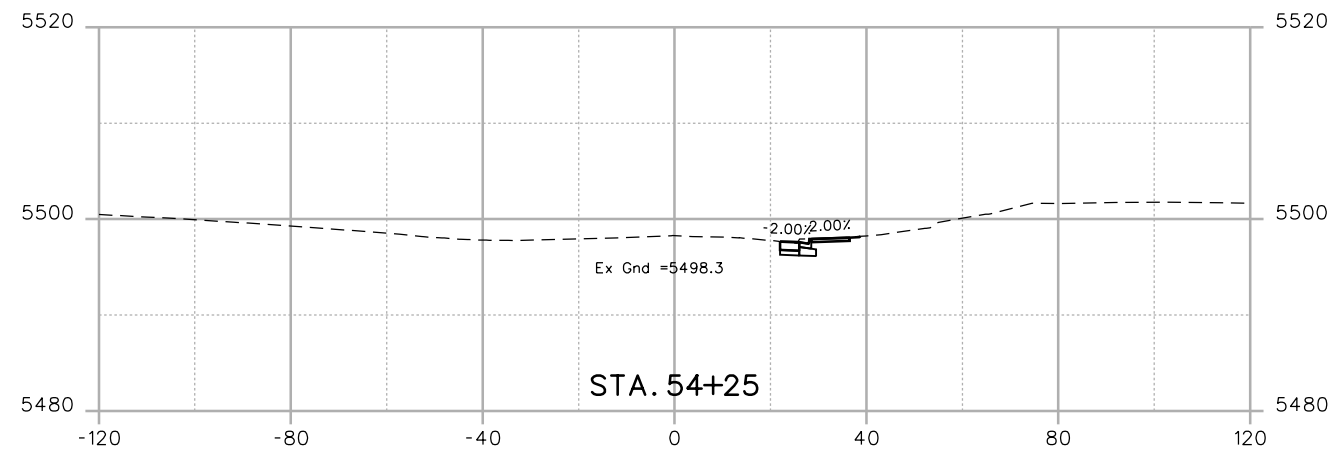
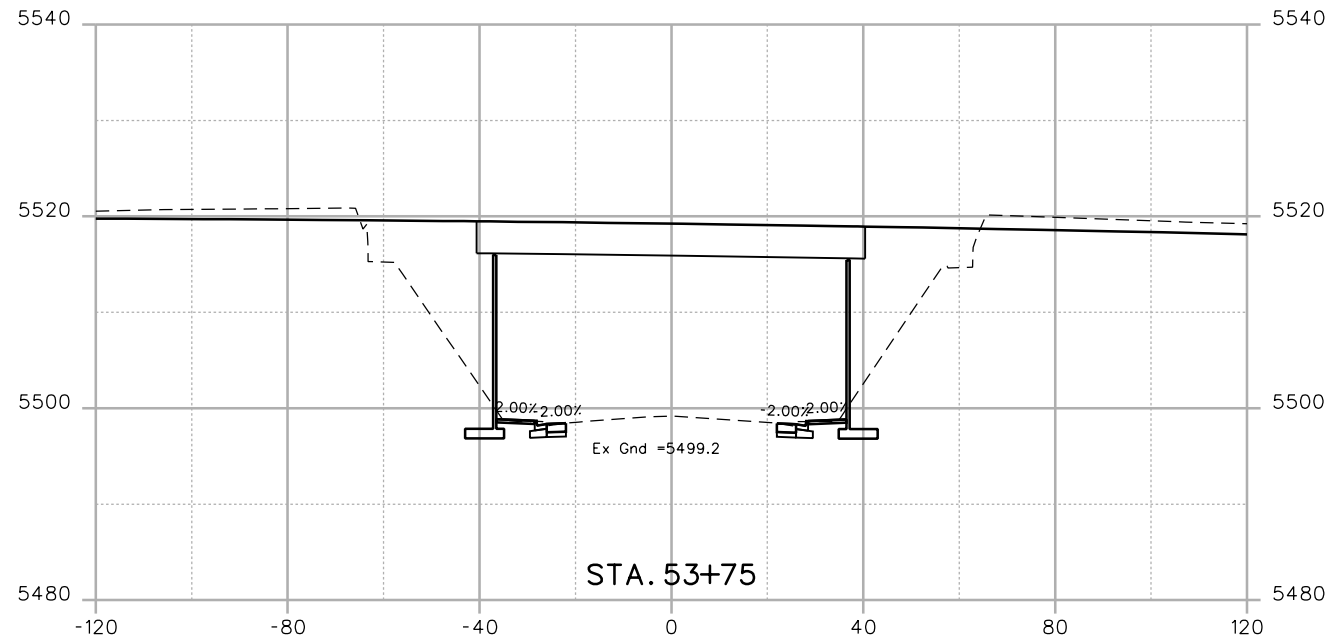
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