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BEGIN PROJECT
STA 85+50.00

158

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188

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Hobbs River

Wacker Heights

Stantonville

Marquetti

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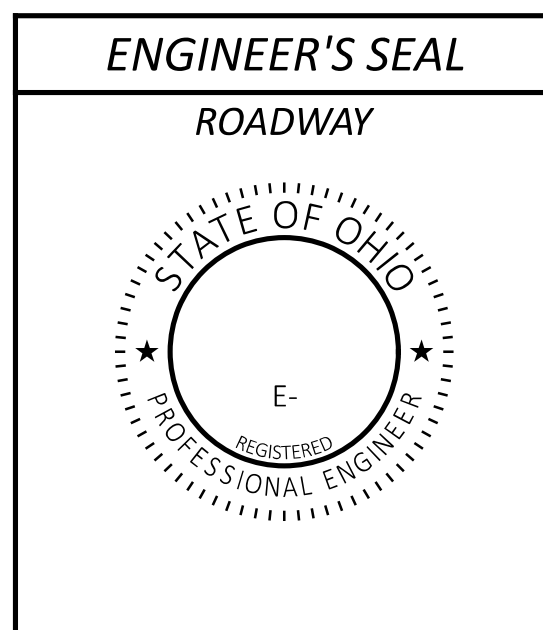


PORTRION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION	<u>SR 158</u>	<u>RAINBOW DR.</u>
CURRENT ADT (2028) -----	7400	1720
DESIGN YEAR ADT (2048) -----	8900	2050
DESIGN HOURLY VOLUME (2048) -----	1100	205
DIRECTIONAL DISTRIBUTION -----	51%	50%
TRUCKS (24 HOUR B&C) -----	5%	1%
DESIGN SPEED -----	45 MPH	45 MPH
LEGAL SPEED -----	45 MPH	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	05 MAJOR COLLECTOR (RURAL)	07 LOCAL (RURAL)

NONE REQUIRED

7575 HUNTINGTON PARK DR, STE 130
COLUMBUS, OHIO 43235
(614) 985-9100
www.arcadis.com



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PROJECT SITE PLAN	FUTURE SUBMITTAL
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RIGHT OF WAY PLANS	FUTURE SUBMITTAL

[illegible]

Pamela Boratyn
Director, Department of Transportation

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/3/2025 TIME: 3:35:19 PM PLTDRW: OHDOT_PDF.pltGCT: OHDOT_PDF.pltGCT PENITBL: OHDOT_USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
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CURVE DATA (C1)	CURVE DATA (C2)	CURVE DATA (C3)
P.I. = STA. 203+73.66	P.I. = STA. 206+88.54	P.I. = STA. 210+06.14
$\Delta = 14^{\circ}14'38''$ RT	$\Delta = 12^{\circ}38'00''$ LT	$\Delta = 34^{\circ}35'20''$ LT
Dc = $07^{\circ}09'43''$	Dc = $06^{\circ}21'58''$	Dc = $11^{\circ}27'33''$ LT
R = 800.00'	R = 900.00'	R = 500.00'
T = 99.96'	T = 99.63'	T = 155.68'
L = 198.88'	L = 198.44'	L = 301.85'
E = 6.22'	E = 5.50'	E = 23.68'
eMAX = 7.6%	eMAX = 7.2%	



SCHEMATIC PLAN

DESIGN AGENCY  ARCADIS 7575 HUNTINGTON PARK DR. STE 130 COLUMBUS, OHIO 43235 (614) 386-9100 www.arcadis.com	
DESIGNER	
DNT	
REVIEWER	
JDH 12/01/2	
PROJECT ID	
120735	
SHEET	TOTAL
P. 2	53

FAI-158-3.18 & RAINBOW DRIVE

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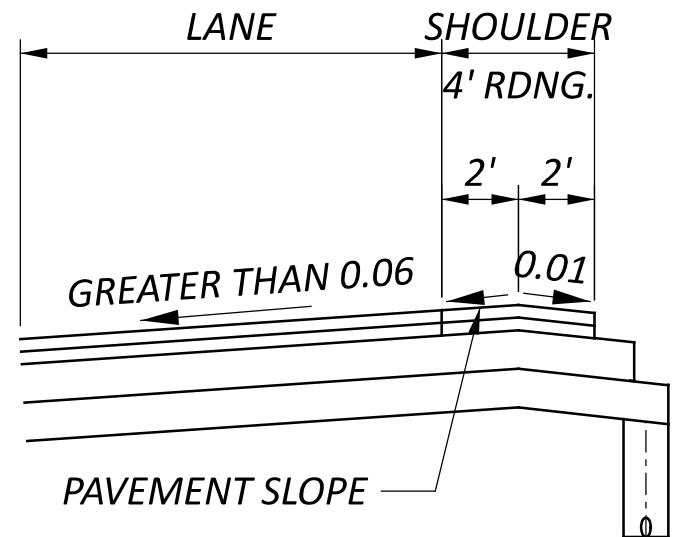
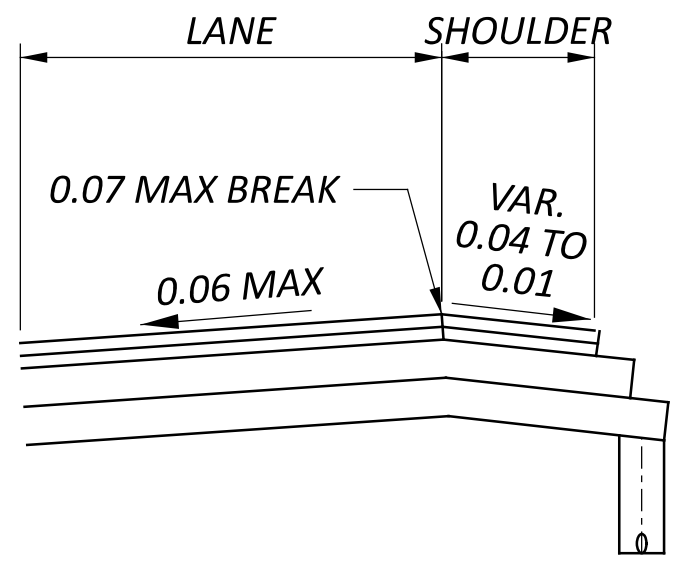
**UNLESS OTHERWISE SHOWN IN THE CROSS SECTIONS*

DESIGN AGENCY
ARCADIS
 7575 HUNTINGTON PARK DR, STE 130
 COLUMBUS, OHIO 43235
 (614) 985-9100
www.arcadis.com

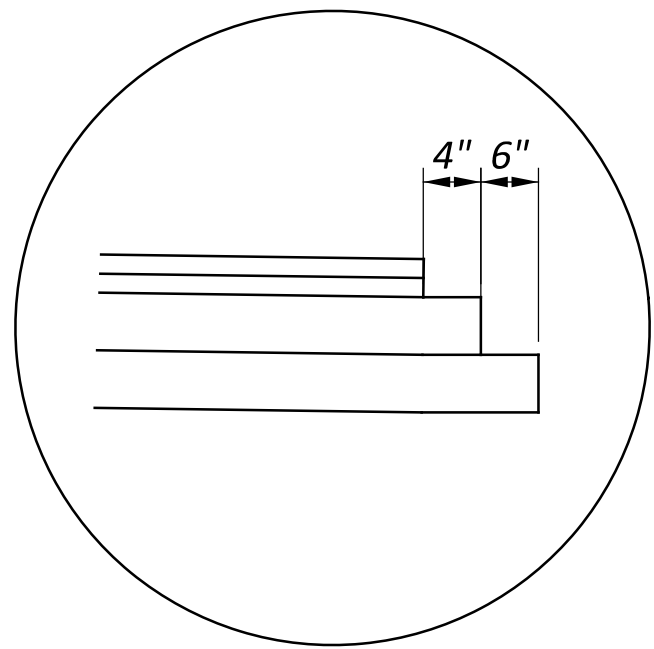
DESIGNER **DNT**
 REVIEWER
JDH 12-01-2

PROJECT ID
120735

SHEET	TOTAL
P.3	53



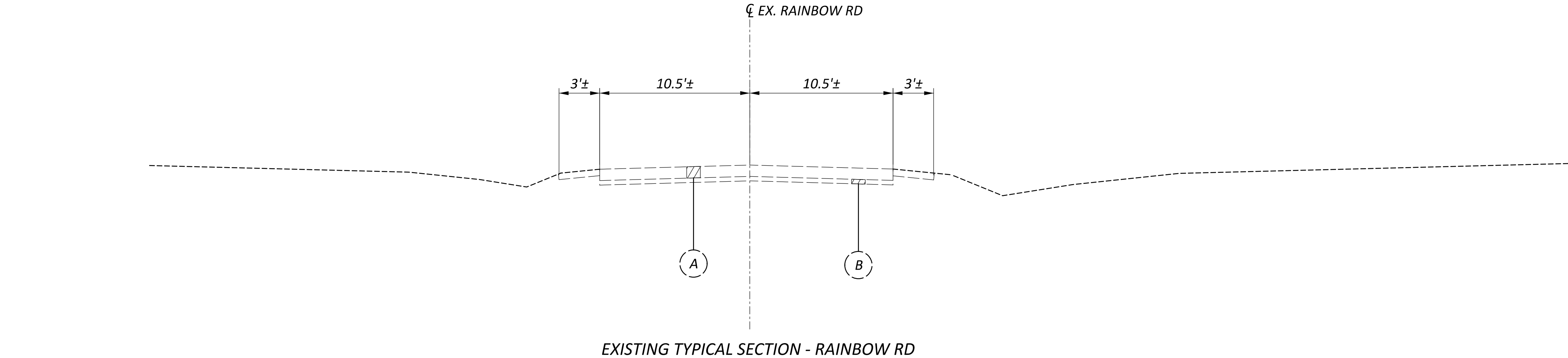
SHOULDER DETAIL



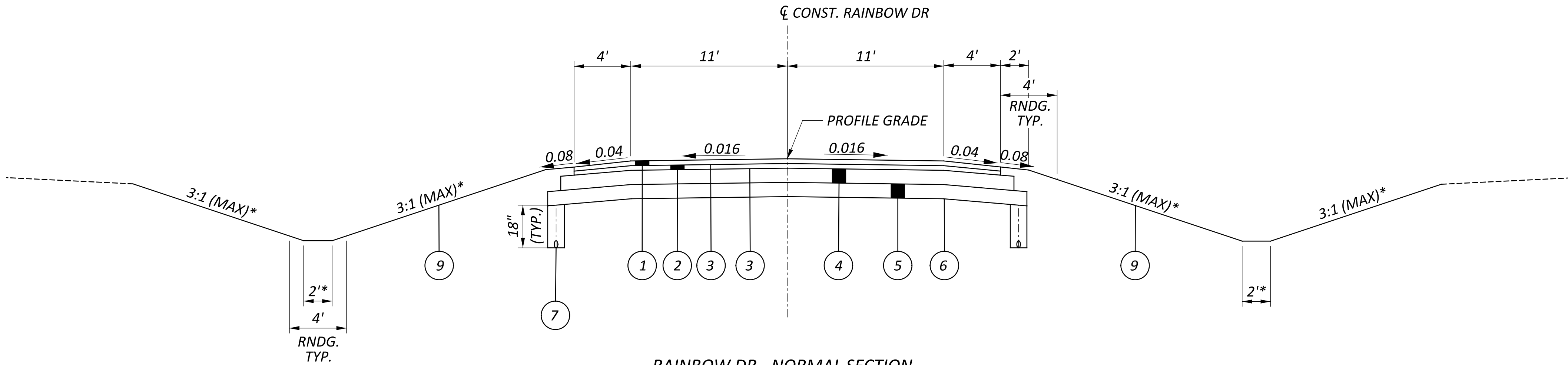
STEP DETAIL

- C** 0.04 OR SAME SLOPE AS PAVEMENT WHICHEVER IS GREATER
- D** FOR HIGH SIDE SHOULDER SLOPES ON SUPERELEVATED SECTIONS SEE SHOULDER DETAILS, THIS SHEET.

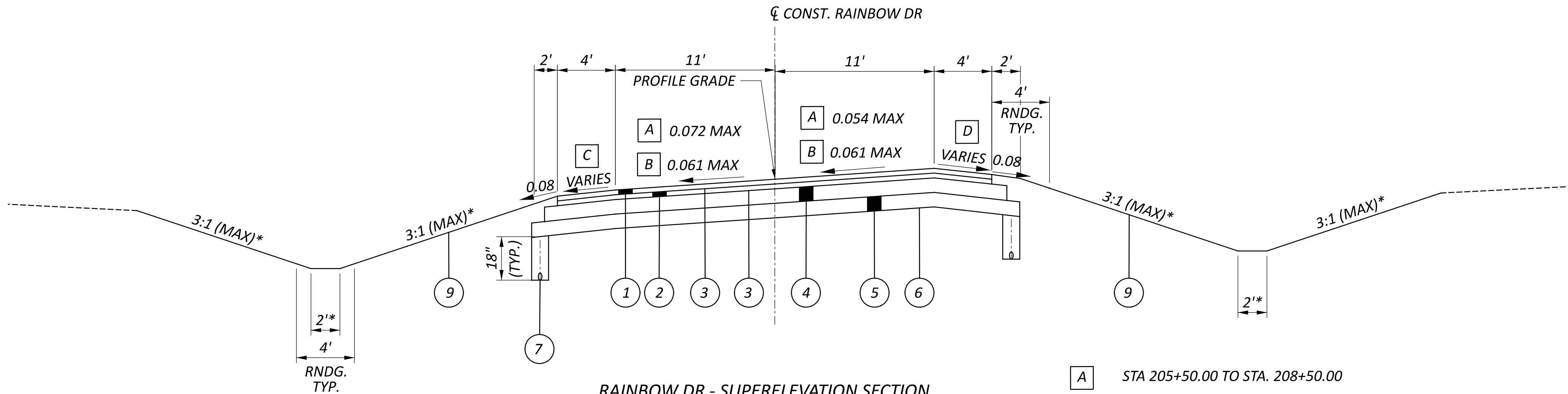
*UNLESS OTHERWISE SHOWN IN THE CROSS SECTIONS



EXISTING TYPICAL SECTION - RAINBOW RD



RAINBOW DR - NORMAL SECTION
STA. 300+50.00 TO STA. 302+80.00



RAINBOW DR - SUPERELEVATION SECTION
STA. 205+50.00 TO STA. 212+00.00

- A** STA 205+50.00 TO STA. 208+50.00
- B** STA. 208+50.00 TO STA. 212+00.00

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AMERICAN ELECTRIC POWER CO. (DISTRIBUTION)
38831 STATE ROUTE 7
REEDSVILLE, OHIO 45772
ATTN: CLARKE SAUNDERS
740-985-3054
CMSAUNDERS@AEP.COM

TALLGRASS ENERGY
370 VAN GORDON STREET
LAKEWOOD, CO 80228
ATTN: FORBES MINER
ENCROACHMENT ENGINEER
303-763-3133
FORBES.MINER@TALLGRASS.COM

AMERICAN ELECTRIC POWER CO. (TRANSMISSION)
700 MORRISON ROAD,
GAHANNA, OHIO 43230
ATTN: MIKE CARR
614-552-1893
MDCARR@AEP.COM
TL_PUBLICPROJECTS@AEP.COM

TC ENERGY CROSSINGS & ENCROACHMENT APPLICATIONS
700 LOUISIANA STREET
SUITE 700
HOUSTON, TEXAS 77002
800-562-8931
US_CROSSINGS@TCENERGY.COM
US_CROSSINGS@TRANSCANADA.COM

AT&T OHIO
160 NORTH SIXTH STREET
ZANESVILLE, OHIO 43701
ATTN: BARRETT
TAMASOVICH
740-454-3552
BT2178@ATT.COM

ENBRIDGE
2169 STATE ROUTE 821
MARIETTA, OHIO 45750
ATTN: JACOB SMITHINGELL
ADVISOR LANDS & ROW
740-434-0915
JACOB.SMITHINGELL@ENBRIDGE.COM

ENTERPRISE PRODUCTS
LAND ENCROACHMENTS GROUP
PO BOX 4324
HOUSTON, TX 77210
LAND_ENCROACHMENTS@EPROD.COM
866-901-8170
FIELD REPRESENTATIVES
MATT CUREE
740-294-8674
CHRIS JONES
412-316-7799

LANCASTER MUNICIPAL GAS
1424 CAMPGROUND ROAD
LANCASTER, OHIO 43130
ATTN: HANK TOPF
740-687-6672
HTOPF@CI.LANCASTER.OH.US

LANCASTER WATER
225 N. MEMORIAL DRIVE
LANCASTER, OHIO 43130
ATTN: ANDY GUNDELFINGER
740-687-6631
AGUNDELFINGER@CILANCASTER.OH.US

NORTHEAST OHIO NATURAL GAS CORP.
5640 LANCASTER-NEWARK RD. | PLEASANTVILLE,
OHIO 43148
ATTN: QUEENIE RAGLAND
740-400-4319
QRAGLAND@NEGAS.NET

SOUTH CENTRAL POWER
720 MILL PARK DR.
LANCASTER, OHIO 43130
ATTN: SCOTT FLOWERS
740-689-6233
FLOWERS@SOUTHCENTRALPOWER.COM

SPECTRUM CABLE TV
737 HOWARD ST.
ZANESVILLE, OHIO 43701
ATTN: ZACK ALLEN
614-255-2819
ZACKARY.ALLEN1@CHARTER.COM
PLANS TO SPECTRUM:
DLMOHCONSTRUCTIONNEWARK@CHARTER.COM
DL-MOH-CONSTRUCTION-FRELO-
TEAM@CHARTER.COM

SURVEYING PARAMETERS - OHIO STATE PLANE (NORTH/SOUTH)

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: FAIRFIELD COORDINATE SYSTEM
MONUMENT TYPE: TYPE "B"

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
MAP PROJECTION: LCC 1 PARALLEL
PROJECT ADJUSTMENT FACTOR: 1.00000000
ORIGIN OF COORDINATE SYSTEM: (0,0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. ____.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. ____ FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING _____ HOUR.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF ____ FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

POST CONSTRUCTION STORM WATER TREATMENT

VEGETATED FILTER STRIP

THIS PLAN UTILIZES VEGETATED FILTER STRIPS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AND ITEM 670, SLOPE EROSION PROTECTION TO ALL DISTURBED AREAS DESIGNATED AS VEGETATED FILTER STRIPS, THE EDGE OF SHOULDER, AND THE FORESLOPE AS SPECIFIED IN THE PLANS.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTERS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER IS TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST ____ EACH
659, TOPSOIL ____ CY
659, SEEDING AND MULCHING ____ SY
659, REPAIR SEEDING AND MULCHING ____ SY
659, INTER-SEEDING ____ SY
659, COMMERCIAL FERTILIZER ____ TON
659, LIME ____ ACRES
659, WATER ____ MGAL
659, MOWING ____ MSF

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ENVIRONMENTAL COMMITMENTS

(TO BE PROVIDED BY ODOT DISTRICT 5)

SEQUENCE OF CONSTRUCTION

PHASE 1: COMPLETE CLOSURE

- 1. ESTABLISH DETOUR SIGNING
- 2. CLOSE TRAFFIC AT THE INTERSECTION OF SR 158 AND RAINBOW DRIVE
- 3. MAINTAIN CLOSURE FOR NO MORE THAN 90 DAYS.
- 4. OPEN TO TRAFFIC ONCE CONSTRUCTION IS COMPLETED AND ALL SIGNING AND PERMENANT PAVEMENT MARKINGS HAVE BEEN PLACED.

ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR)

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED __ CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET _____. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$_____ PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTICE OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP &	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW SHALL NOT BE PERMITTED AT PROJECT COST NOR TIME COMPENSATION. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

DURING PERIODS WHERE TRAFFIC NEEDS TO BE DIRECTED CONTRARY TO A TRAFFIC CONTROL DEVICE (FLAGGER, SIGN [E.G. STOP SIGN, STREET OR HIGHWAY SIGNS, ETC], SIGNAL OR OTHER DEVICE USED TO REGULATE, WARN OR GUIDE TRAFFIC). TRAFFIC IN THIS INSTANCE INCLUDES VEHICULAR, PEDESTRIAN AND/OR SHARED USE PATH USERS.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES THAT MEET ALL OF THE CRITERIA LISTED BELOW: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

- o CRITERIA
- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND,
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
- AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS AND/OR IN CONTRARY TO OTHER TRAFFIC CONTROL DEVICES IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORISTâ??S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED)

THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEO'S DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEOWITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE____ HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
ALL PAVING AND GUARDRAIL WORK	90	\$20,000	NOTICE TO PROCEED	PROJECT COMPLETION DATE

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

MAINTAINING ACCESS TO PRIVATE RESIDENCES

THE CONTRACTOR MUST SUBMIT A PLAN FOR REVIEW AND APPROVAL TO ODOT IN ORDER TO MAINTAIN ACCESS TO THE PRIVATE PROPERTIES ON THE SR 158 AND RAINBOW DR ROADWAY SECTIONS WITHIN THE PROJECT LIMITS. FULL ACCESS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION OF BOTH ROADWAY SECTIONS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ODOT PROJECT MANAGER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 615 - ROADS FOR MAINTAINING TRAFFIC	LS
ITEM 410 - TRAFFIC COMPACTED SURFACE, CLASS B	SY

DESIGN AGENCY



ARCADIS

7675 HUNTING PARK DRIVE, STE 100
COLUMBUS, OHIO 43240
(614) 885-9700
www.arcadis.com

DESIGNER

SRO

REVIEWER

JDH 12/01/25

PROJECT ID

120735

SUBSET

1 2

SHEET

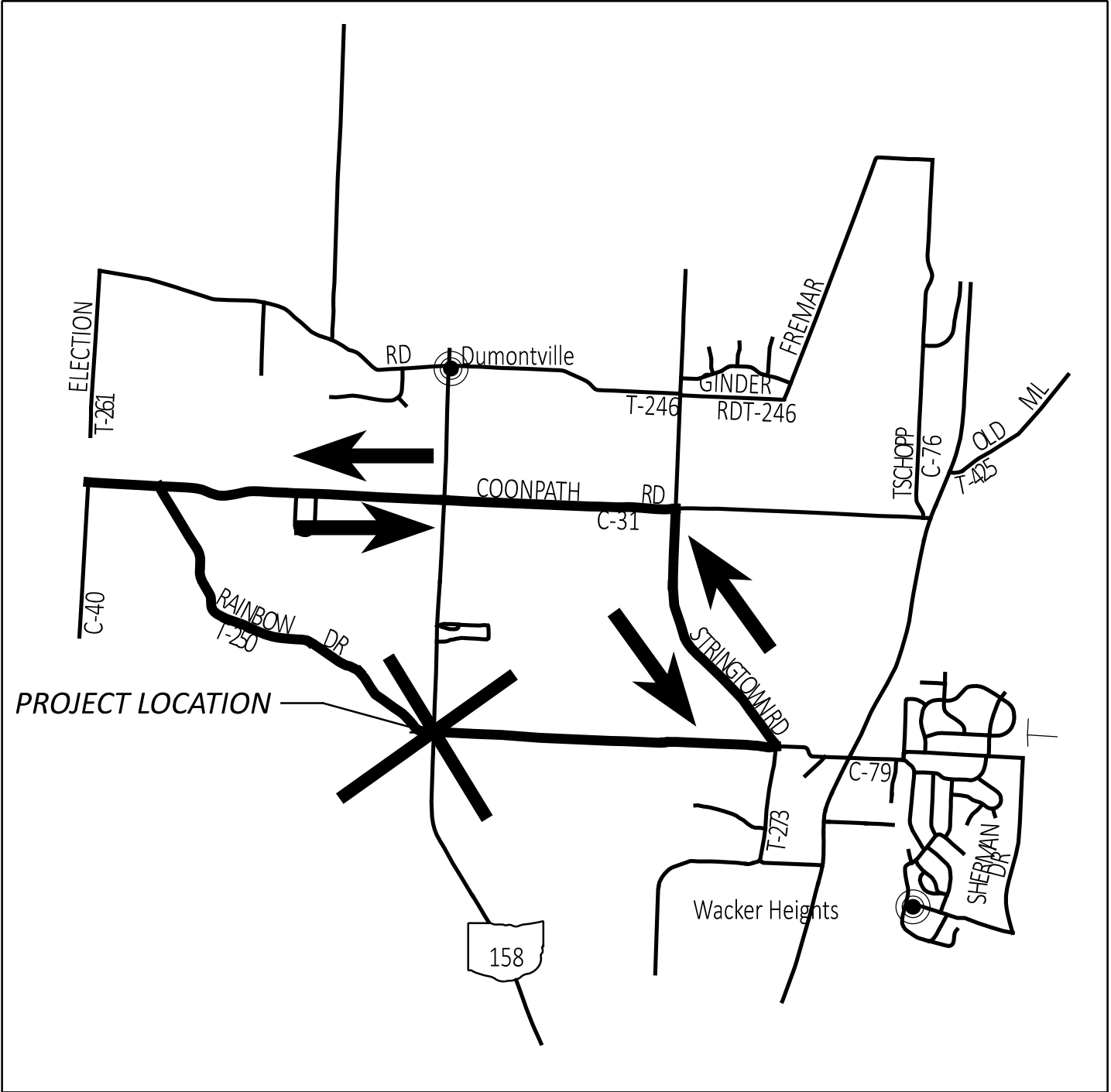
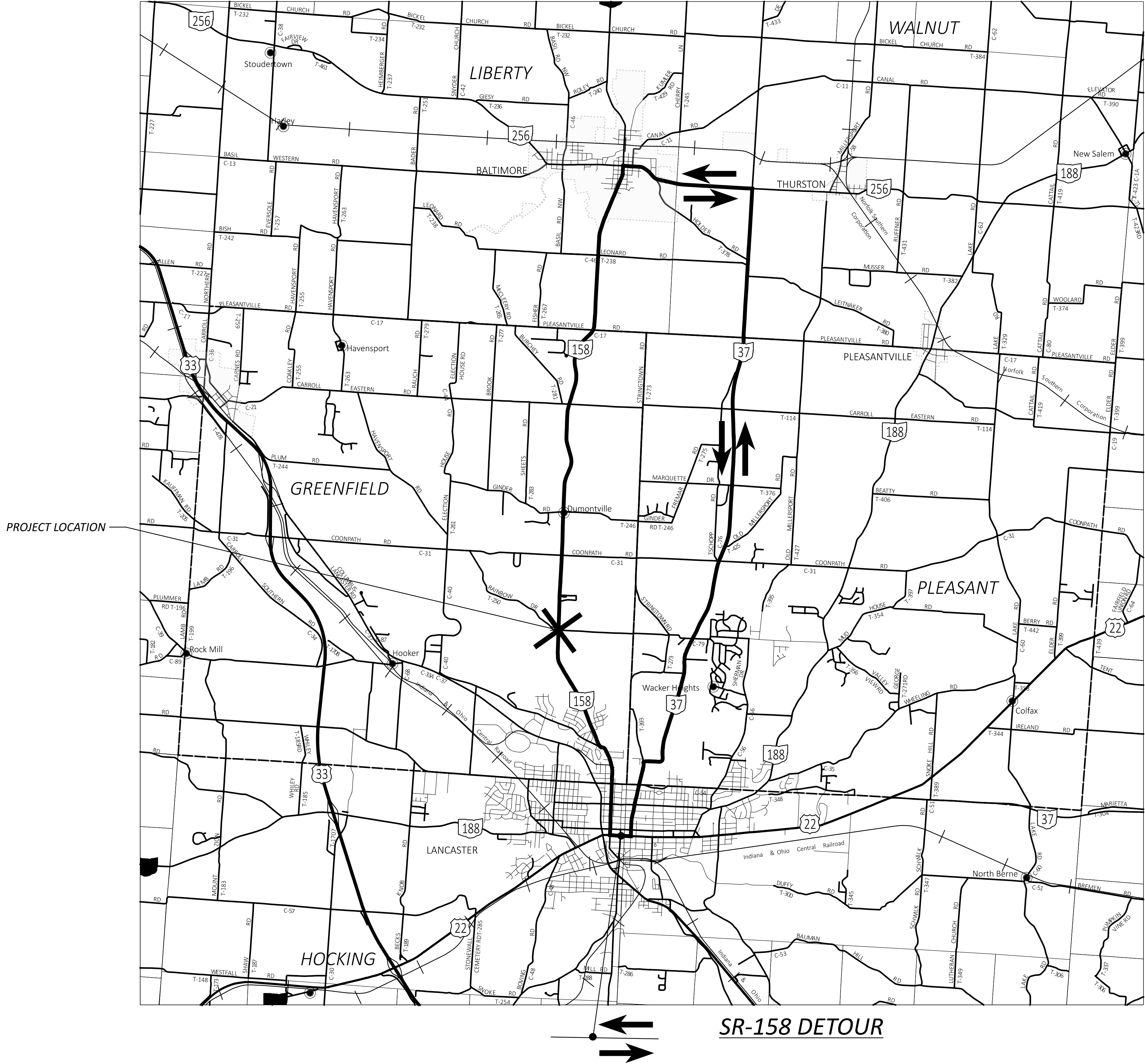
P.7 TOTAL 53

MAINTENANCE OF TRAFFIC LEGEND

- DETOUR ROUTE

- DIRECTION OF TRAFFIC

- PROJECT LOCATION

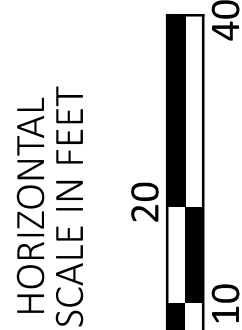
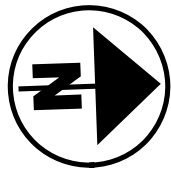
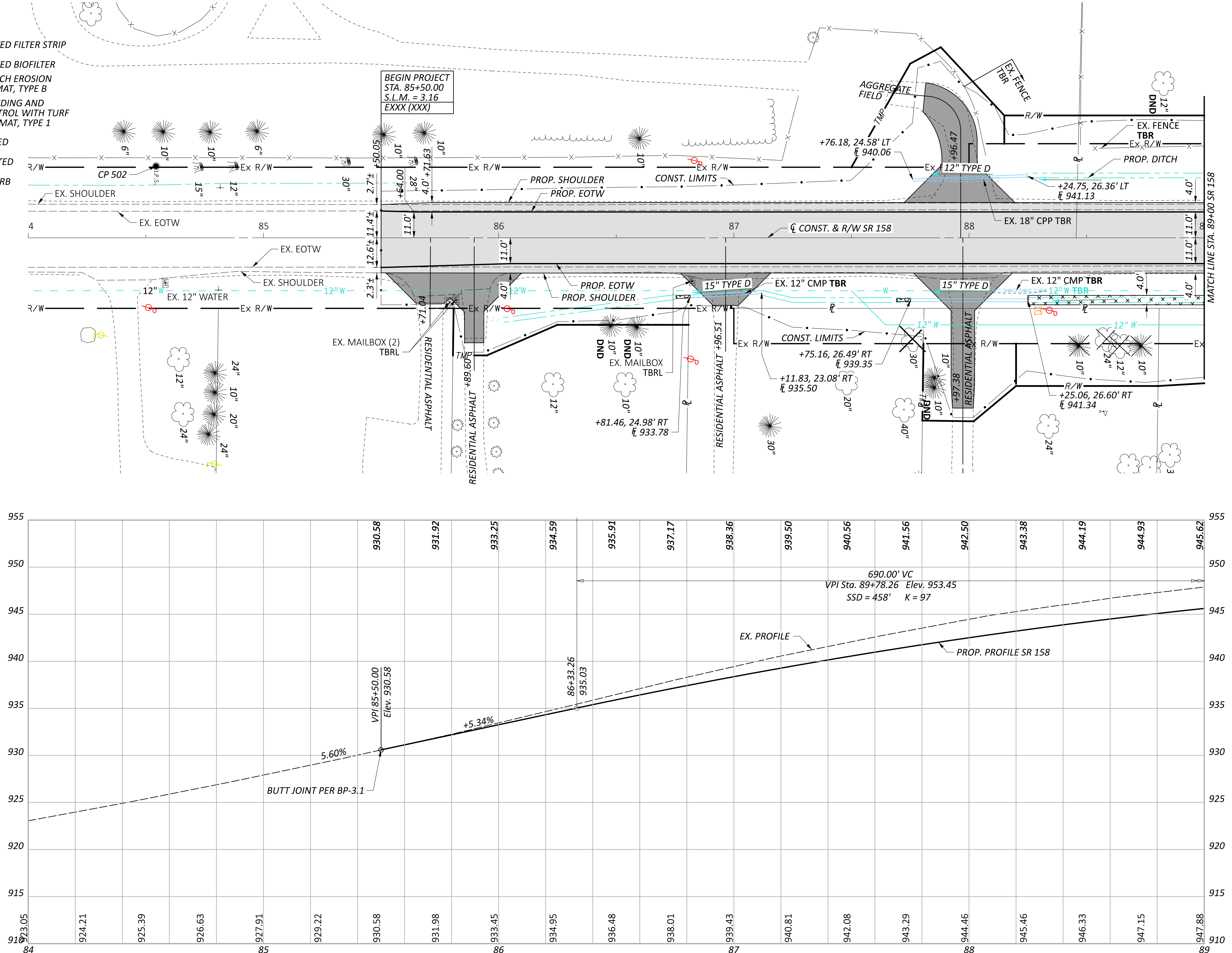


RAINBOW DRIVE LOCAL DETOUR

DESIGN AGENCY	
ARCADIS	
755 HUNTING PARK DR, STE 100 COLUMBUS, OH 43260 www.arcadis.com	
DESIGNER	
DNT	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
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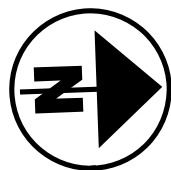
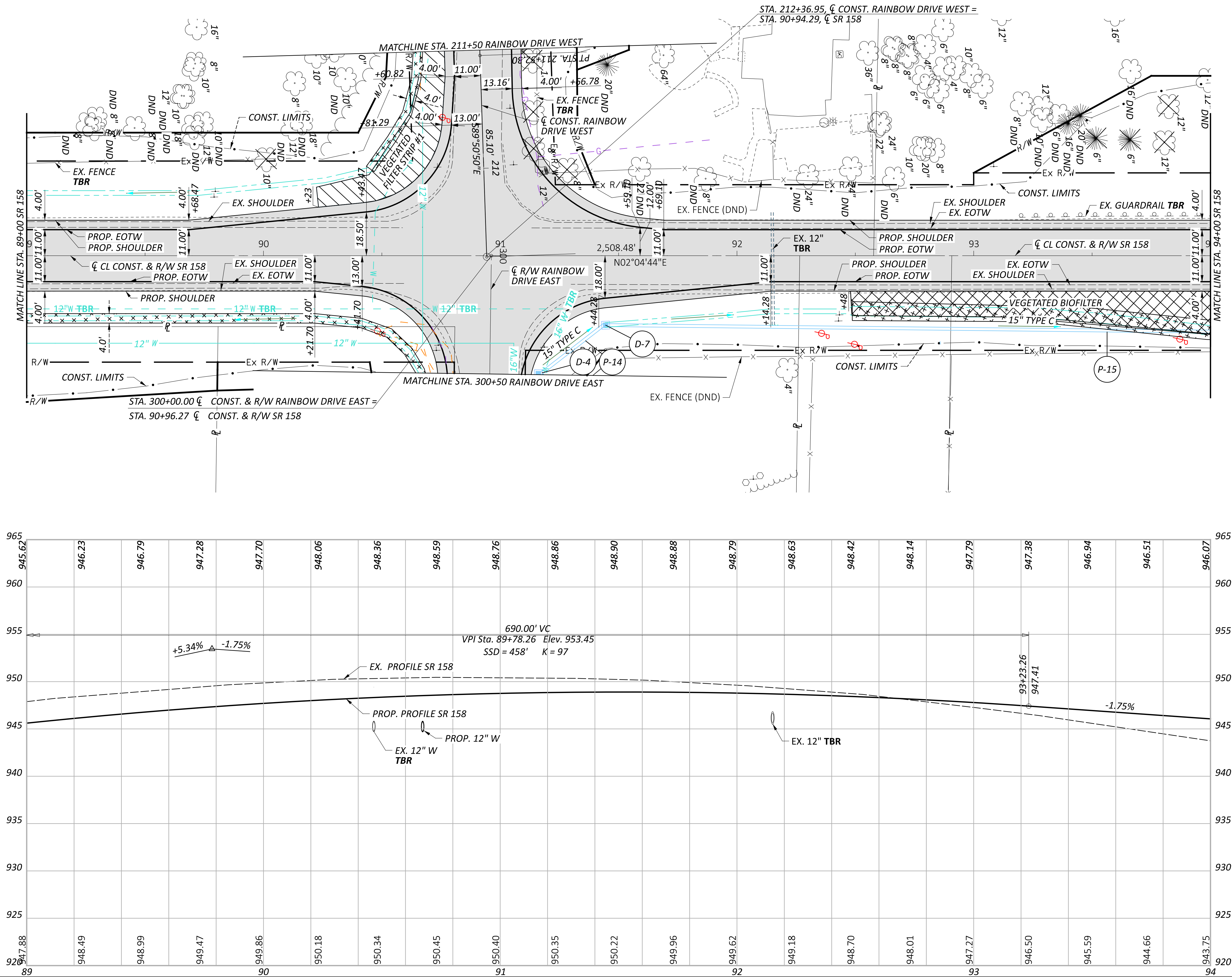
LEGEND

- PAVEMENT
- DRIVEWAY
- BMP: VEGETATED FILTER STRIP
- BMP: VEGETATED BIOFILTER
- ITEM 670 - DITCH EROSION PROTECTION MAT, TYPE B
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
- TBR = TO BE REMOVED
- TBRL = TO BE RELOCATED
- DND = DO NOT DISTURB



PLAN AND PROFILE - SR 158
STA. 84+00.00 TO STA. 89+00.00

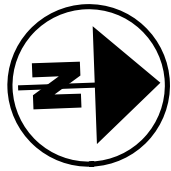
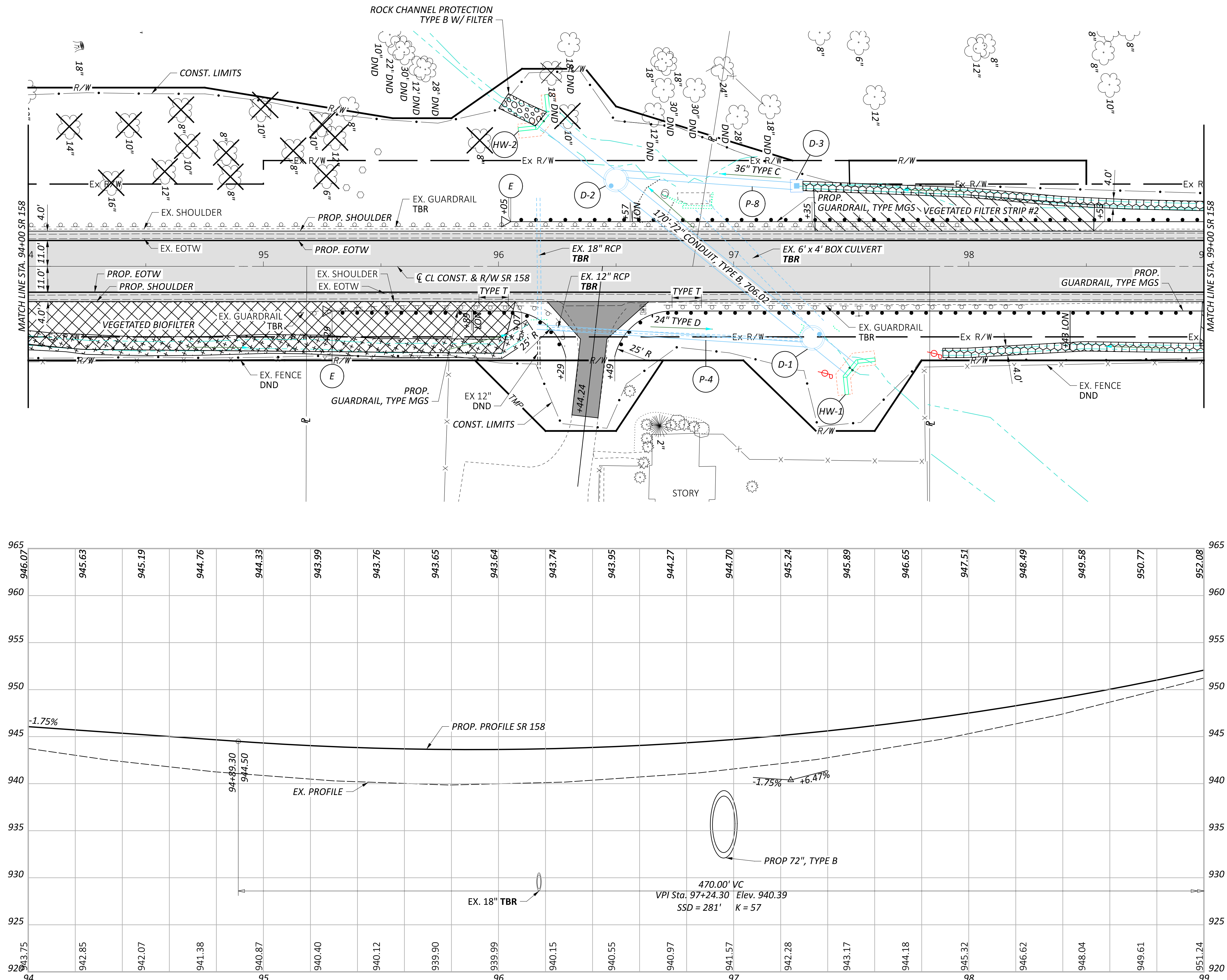
DESIGN AGENCY	
ARCADIS	
755 HUNTING PARK DR, STE 100 COLLEGE PARK, MD 20740 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.9	53



PLAN AND PROFILE - SR 158
STA. 89+00.00 TO STA. 94+00.00

FAI-158-3.18 & RAINBOW DRIVE

LEGEND
SEE SHEET P.9



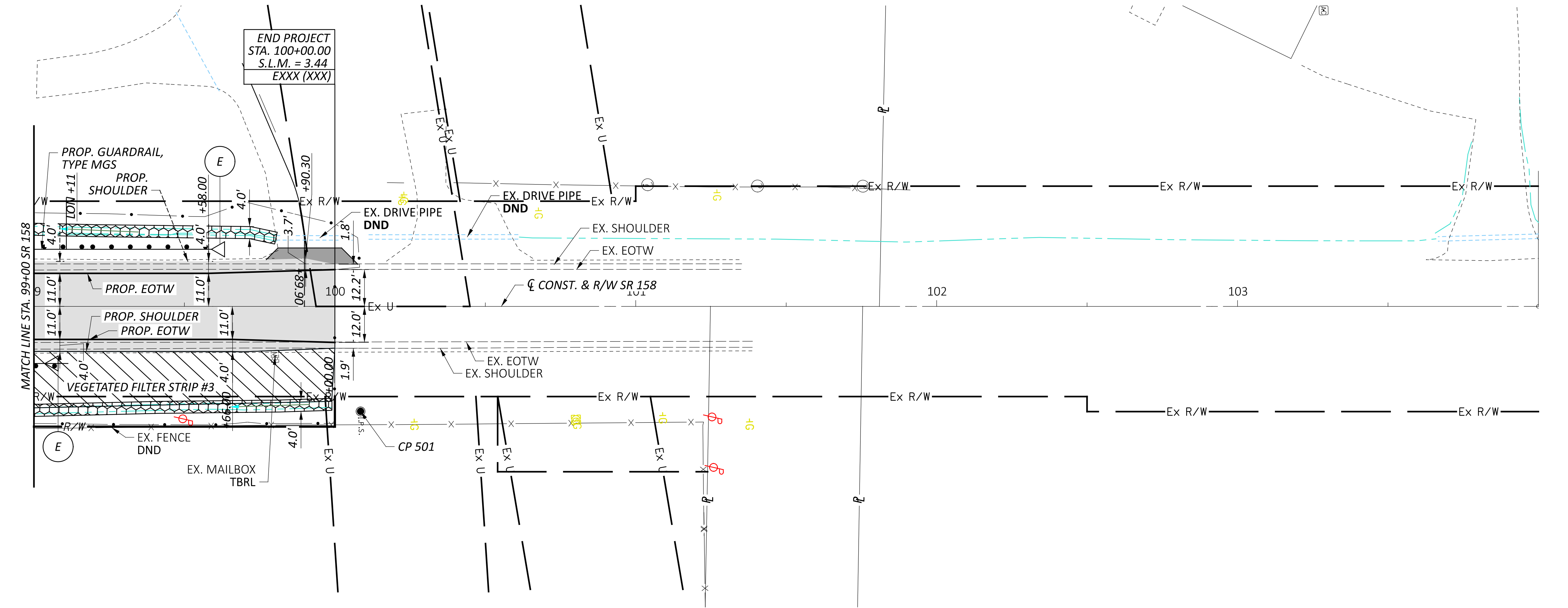
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SCALE IN FEET

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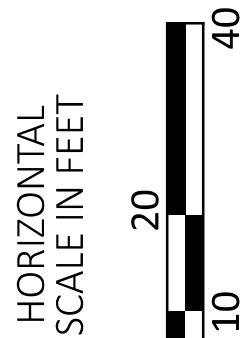
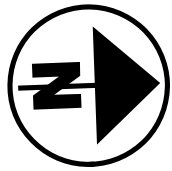
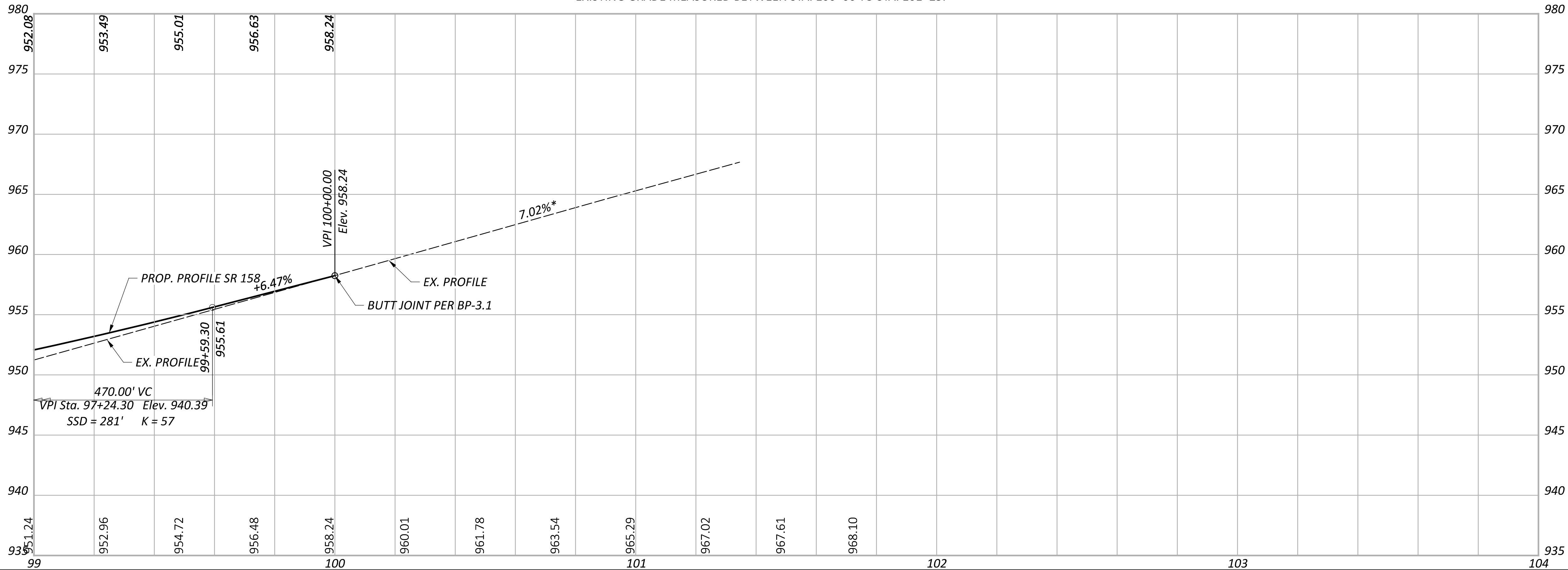
PLAN AND PROFILE - SR 158
STA. 94+00.00 TO STA. 99+00.00

DESIGN AGENCY  ARCADIS 7575 HUNTINGTON PARK DR. STE 100 COLUMBUS, OHIO 43235 (614) 985-9100 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/2	
PROJECT ID	
120735	
SHEET	TOTAL
P.11	53

LEGEND
SEE SHEET P.9



* EXISTING GRADE MEASURED BETWEEN STA. 100+00 TO STA. 101+25.

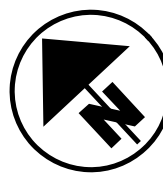
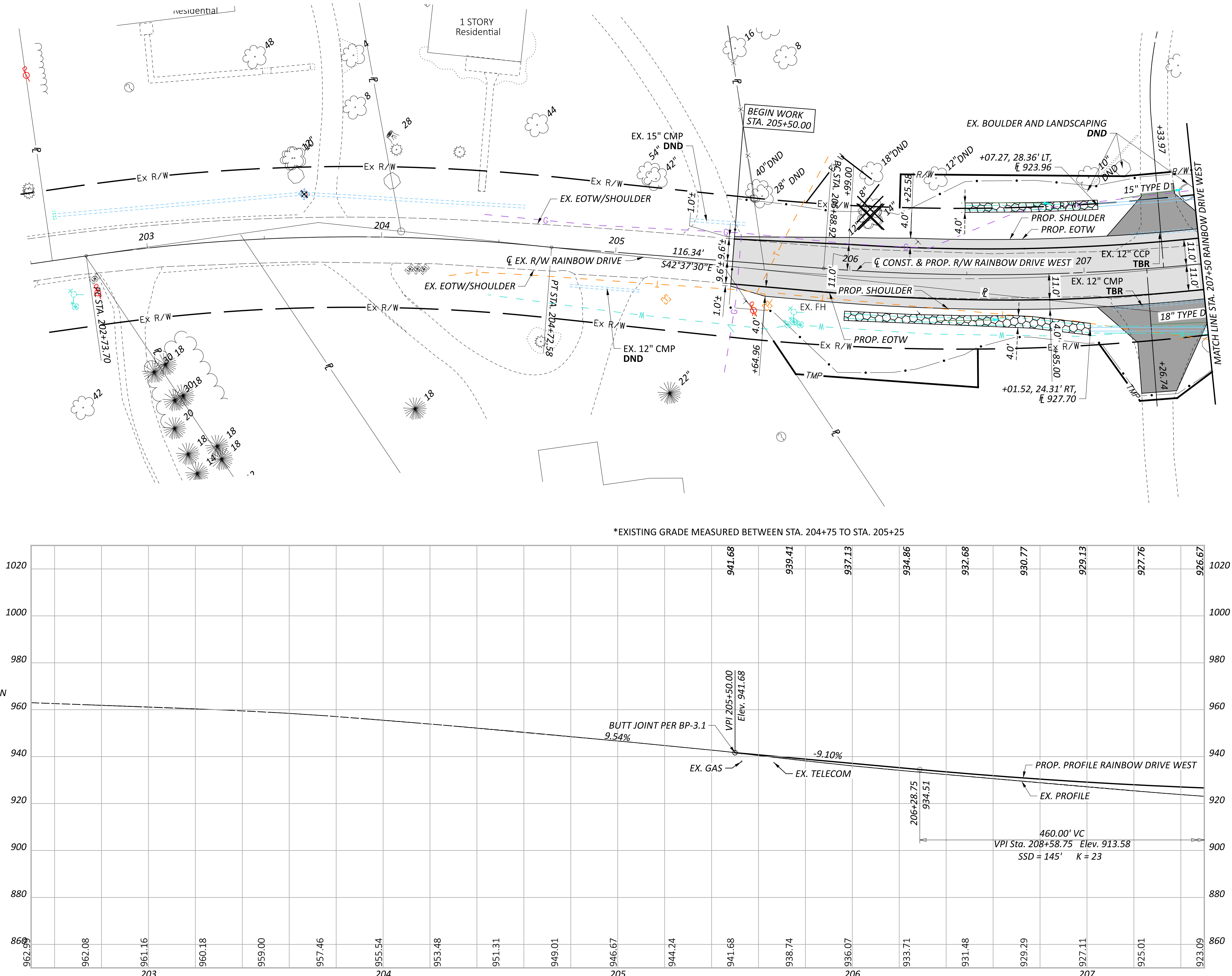


PLAN AND PROFILE - SR 158
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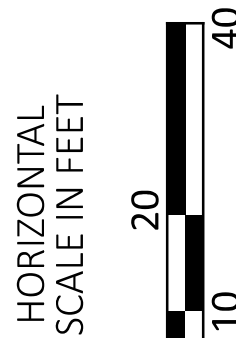
DESIGN AGENCY	
ARCADIS	
7575 HUNTINGTON PARK DR, STE 100 COLLEGE PARK, MD 20740 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.12	53

NOTE TO REVIEWER:
PROFILE GRID SCALE
WILL BE UPDATED TO AN
EXAGGERATED SCALE
(1"=5FT) AT STAGE 2
SUBMITTAL.

LEGEND
SEE SHEET P.9

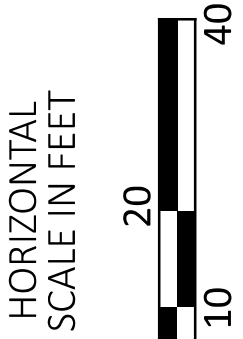
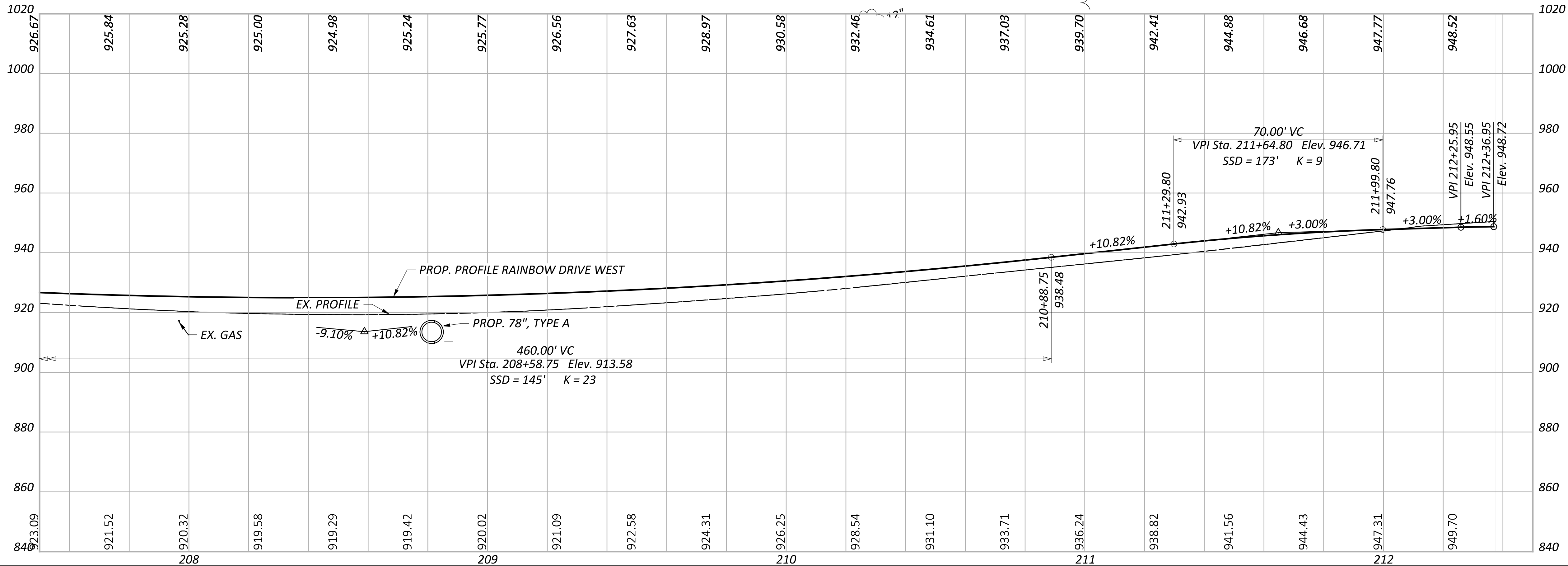


PLAN AND PROFILE - RAINBOW DRIVE WEST
STA. 202+50.00 TO STA. 207+50.00



LEGEND
SEE SHEET P.9

NOTE TO REVIEWER:
THE VERTICAL PROFILE
GRID SCALE WILL BE
UPDATED TO AN
EXAGGERATED SCALE
(1"=5FT) AT STAGE 2
SUBMITTAL.



PLAN AND PROFILE - RAINBOW DRIVE WEST
STA. 207+50.00 TO STA. 212+50.00

DESIGNER
ARCADIS
755 HUNTING PARK DRIVE, STE 100
COLUMBIA, SC 29203
www.arcadis.com

DESIGNER
SMB

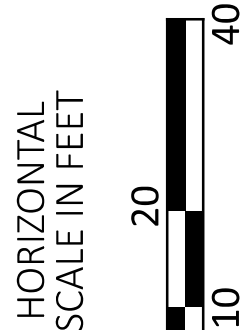
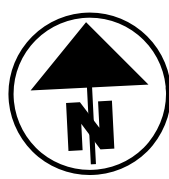
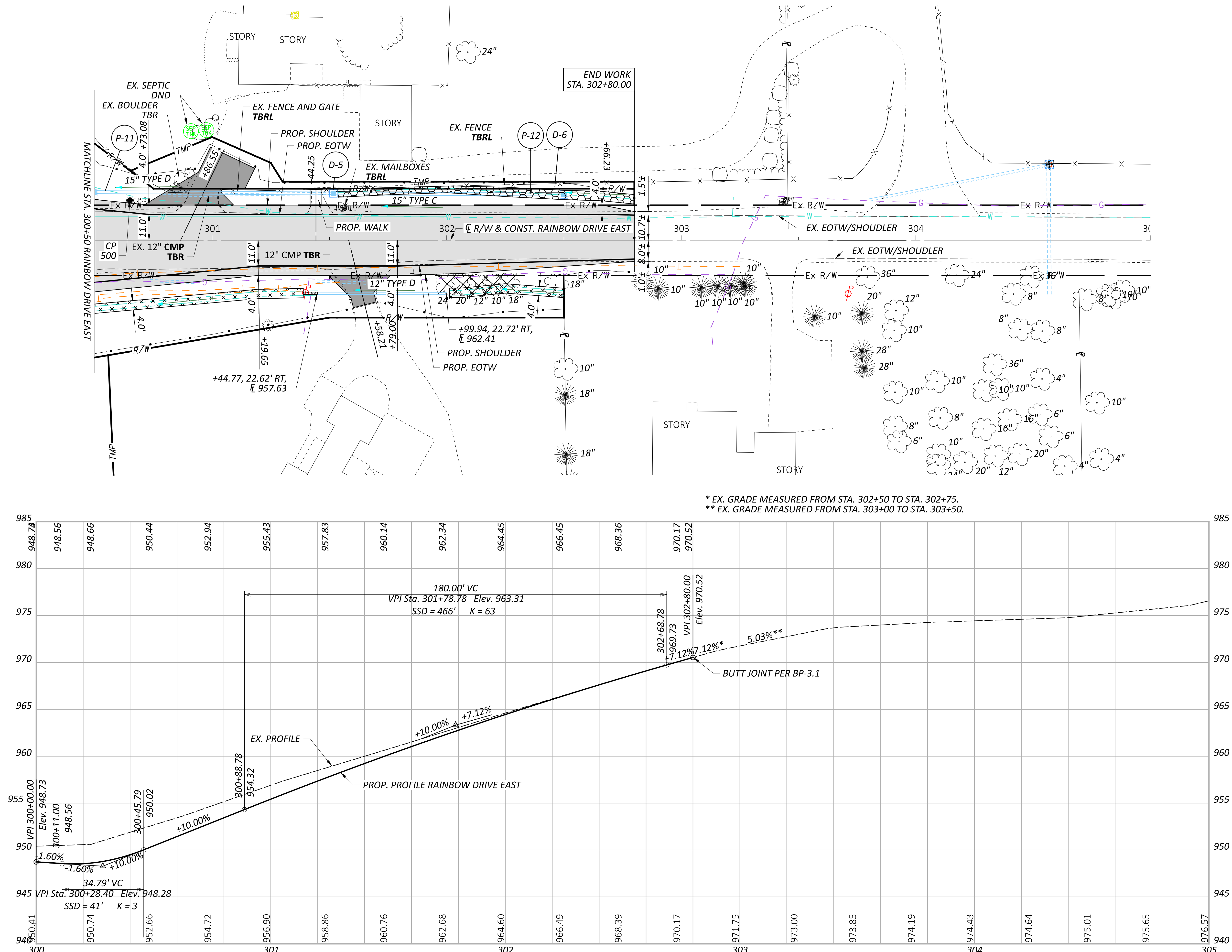
REVIEWER
JDH

PROJECT ID
120735

SHEET
P.14

TOTAL
53

LEGEND
SEE SHEET P.9



PLAN AND PROFILE - RAINBOW DRIVE EAST
STA. 300+00.00 TO STA. 305+00.00

DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.15	TOTAL 53

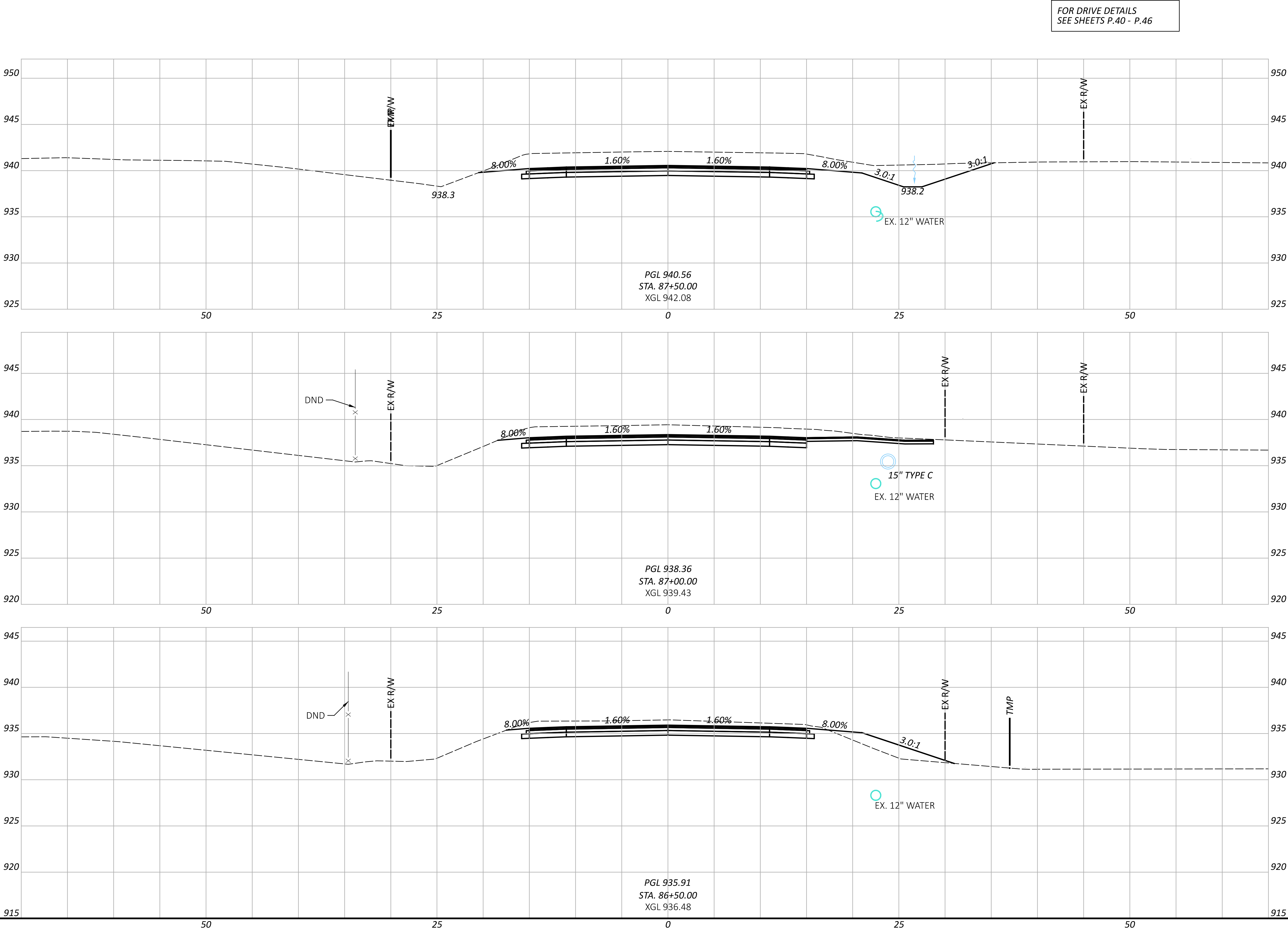
FAI-158-3.18 & RAINBOW DRIVE




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 7515 HUNTINGTON PARK DR. STE 100
 COLUMBUS, OHIO 43235
 (614) 995-9100
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FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46

CROSS SECTIONS - SR 158
STA. 86+50.00 TO STA. 87+50.00

DESIGN AGENCY
ARCADIS
1755 HUNTING PARK DR, STE 100
COLUMBIA, SC 29203
(843) 964-1100
www.arcadis.com

DESIGNER
SMB

REVIEWER
JDH

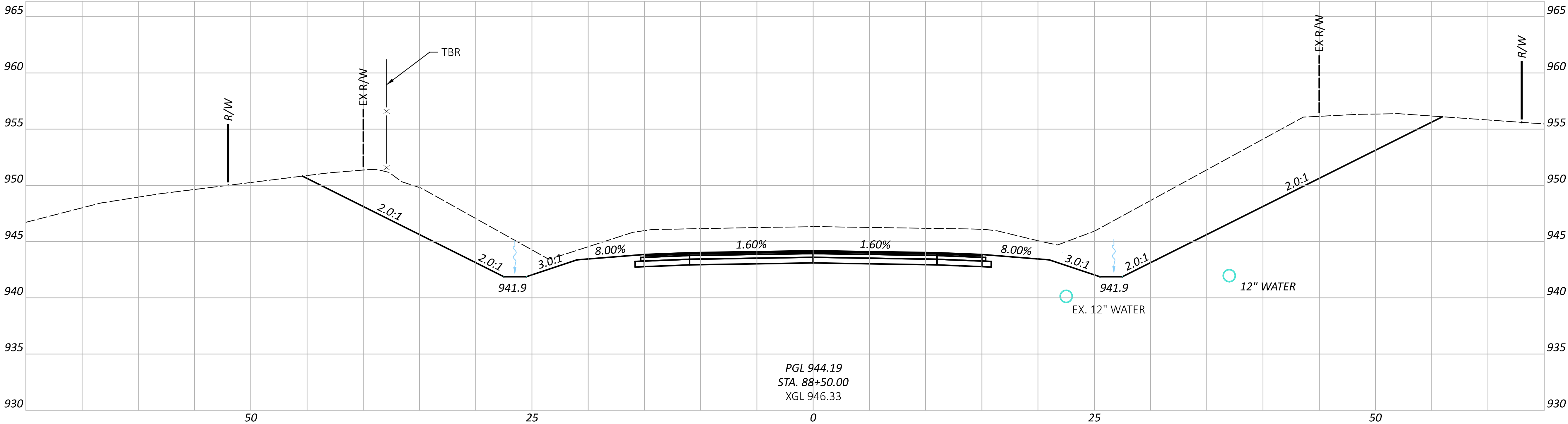
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120735

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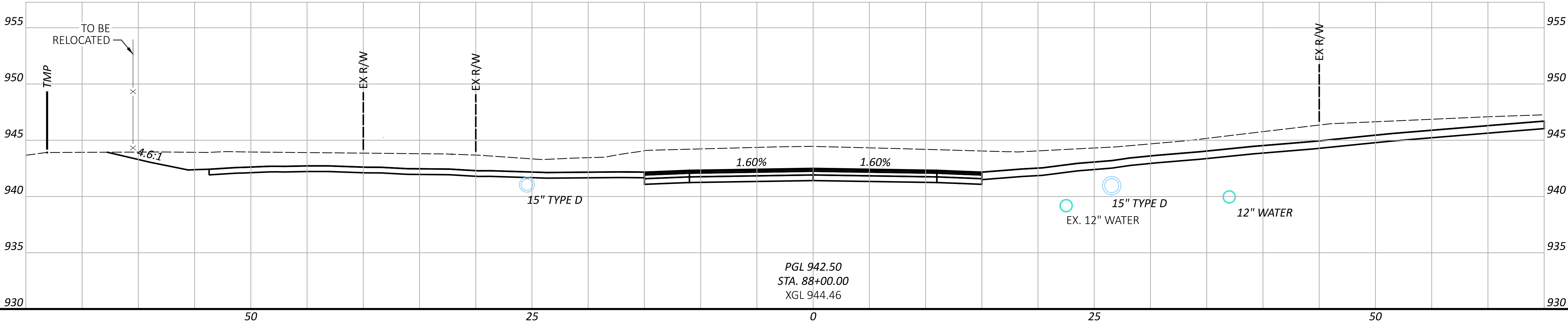
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FAI-158-3.18 & RAINBOW DRIVE

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pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400_CAD\120735\400-Engineering\Roadway\Sheets\120735_XS001.dgn



FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46

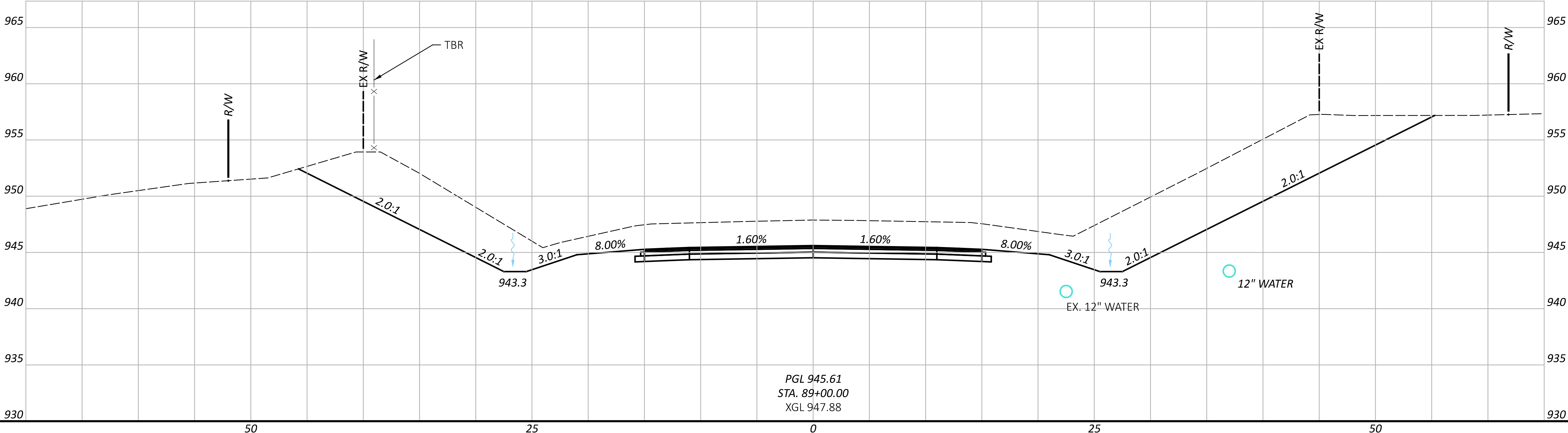
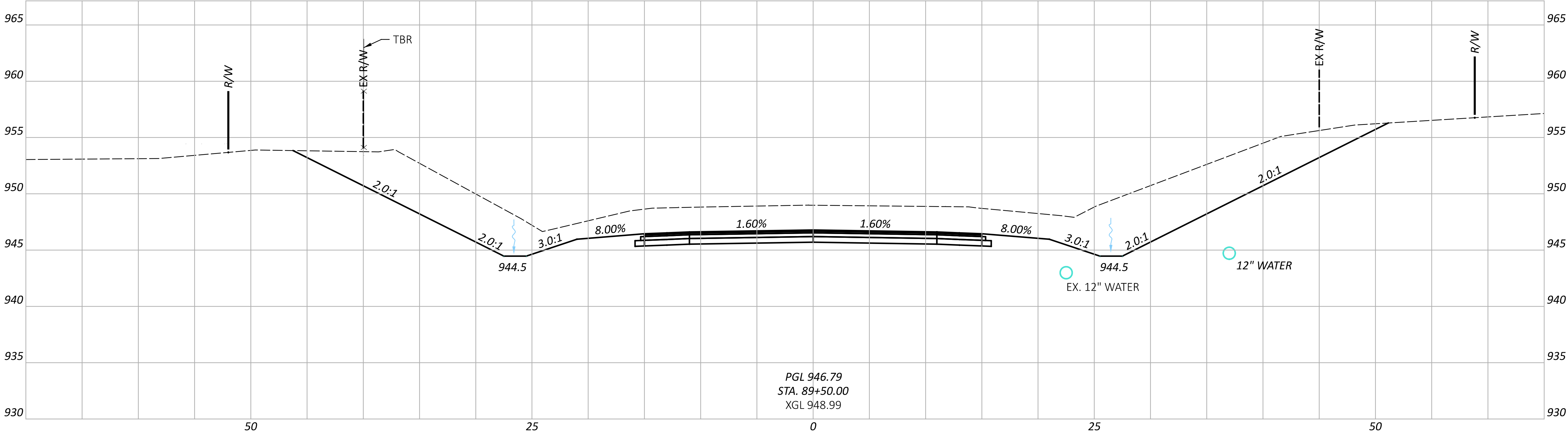


CROSS SECTIONS - SR 158
STA. 88+00.00 TO STA. 88+50.00

DESIGN AGENCY	
ARCADIS	
7575 HUNTING PARK DR, STE 100 COLUMBIA, SC 29223 (803) 796-4100 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.18	TOTAL 53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_2 - 89+00.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 12/1/2025 TIME: 4:42:07 PM PLTDRW: OHDOT_PDF.plt USER: stephanie.otter@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400_CAD\120735\400-Engineering\Roadway\Sheets\120735_XS001.dgn



CROSS SECTIONS - SR 158
STA. 89+00.00 TO STA. 89+50.00

DESIGN AGENCY
ARCADIS
1755 HUNTING PARK DRIVE, STE 100
COLUMBIA, SC 29210
www.arcadis.com

DESIGNER

SMB

REVIEWER

JDH 12/01/25

PROJECT ID

120735

SHEET

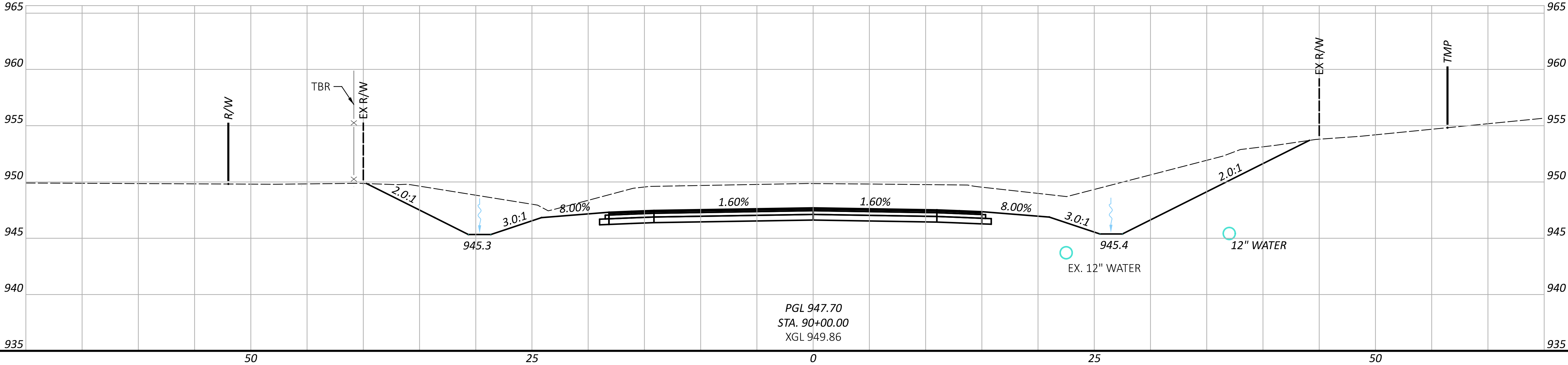
P.19

TOTAL

53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_2 - 90+00.00 [Sheet] PAPER: 34x22 (in.) DATE: 11/30/2025 TIME: 7:44:50 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_UTPen.tbl USER: sean.buchanan@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400_CAD\120735\400-Engineering\Roadway\Sheets\120735_XS001.dgn



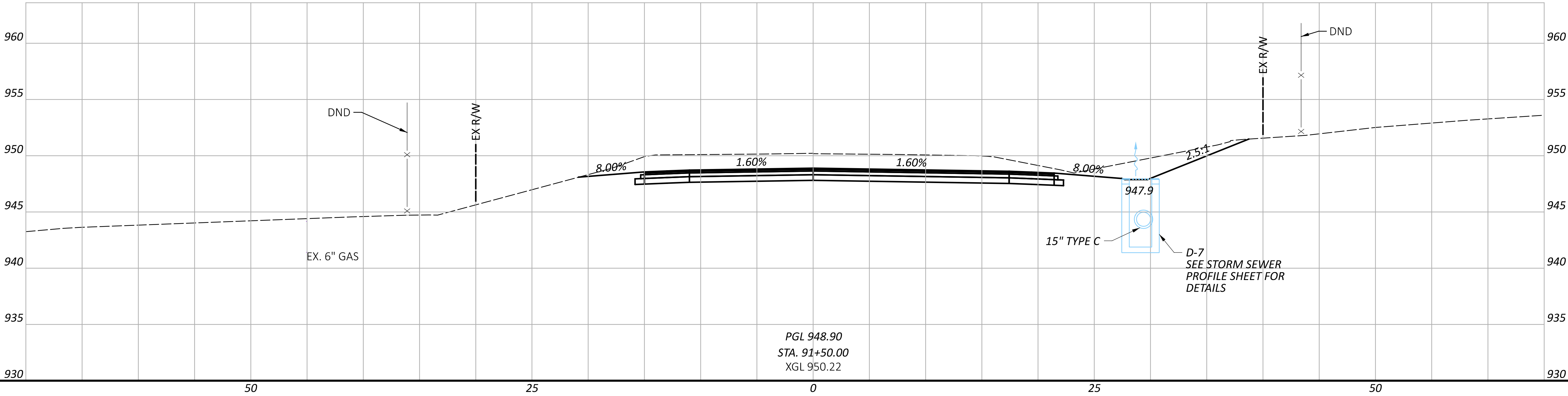
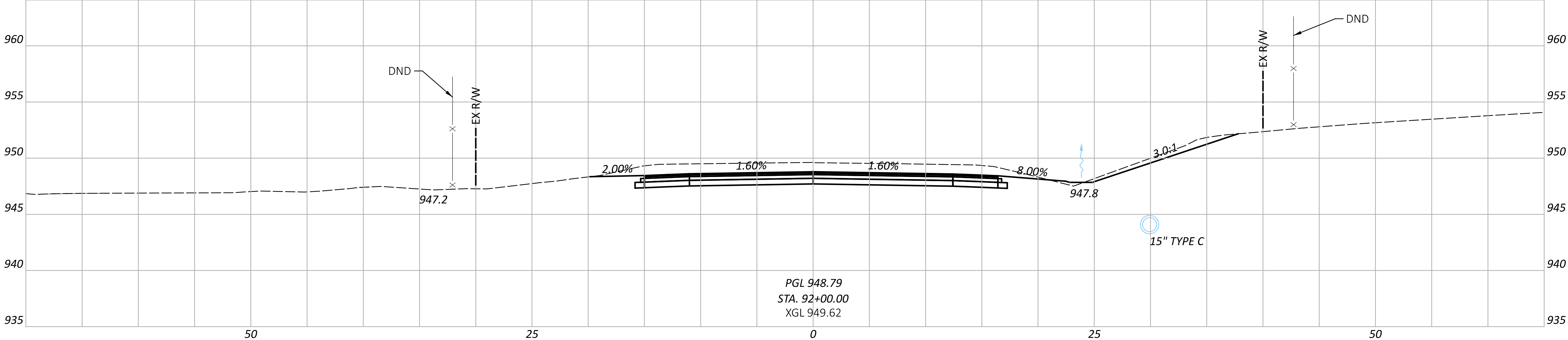
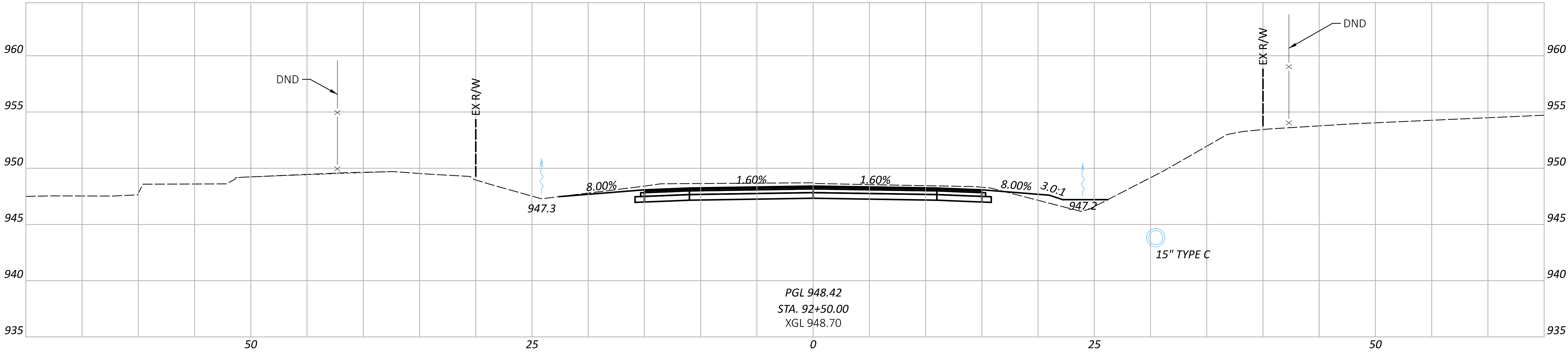
REFER TO INTERSECTION DETAIL
SHEET P.39 - STA 90+00 TO 91+50.

DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29203 (803) 796-4100 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.20	TOTAL 53

CROSS SECTIONS - SR 158
STA. 90+00.00 TO STA. 90+00.00

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_3 - 91+50.00 [Sheet] PAPER: 34x22 (in.) DATE: 12/3/2025 TIME: 2:09:33 PM PLTDR: OHDOT_PDF.plt USER: stephanie.otter@arcadis.com WORKSPACE: OHDOTCEV2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400_CAD\120735\400-Engineering\Roadway\Sheets\120735_XS001.dgn

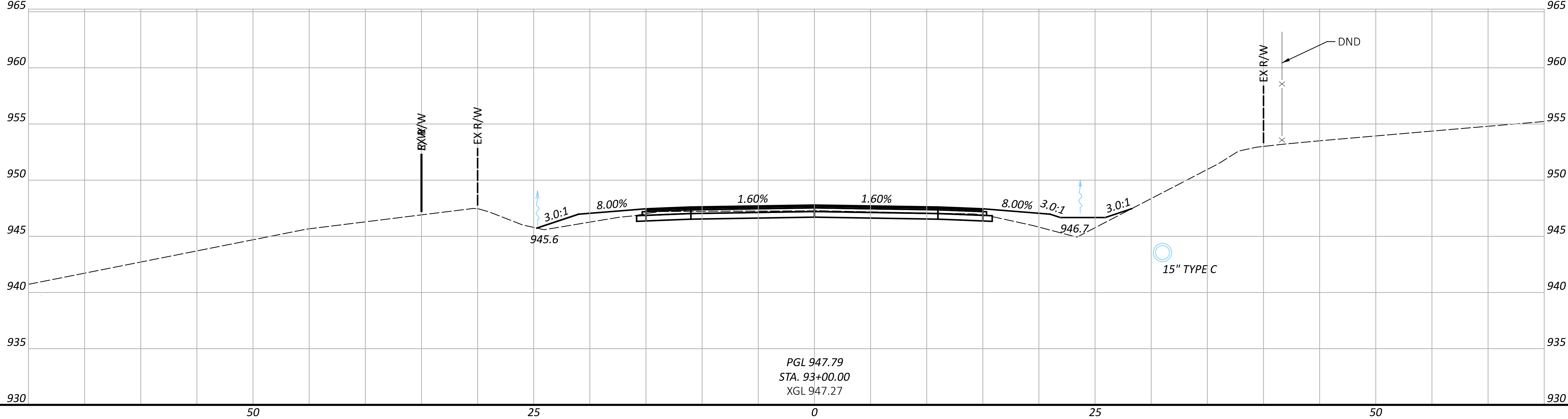
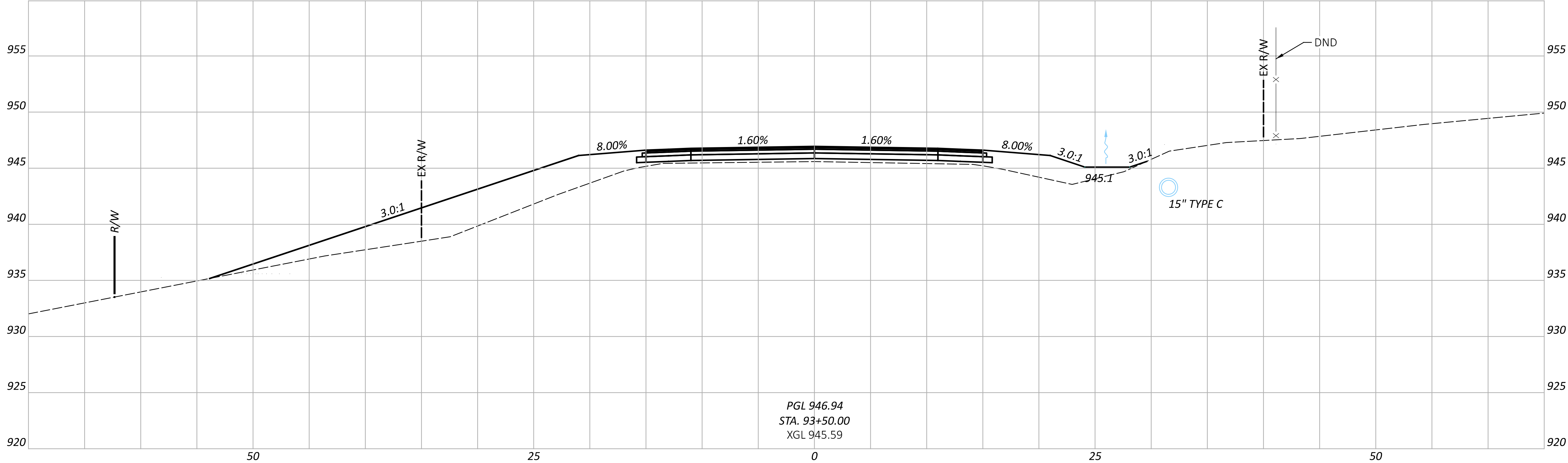


CROSS SECTIONS - SR 158
STA. 91+50.00 TO STA. 92+50.00

DESIGN AGENCY	
ARCADIS	
755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29233 (843) 964-1700 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.21	53

FAI-158-3.18 & RAINBOW DRIVE

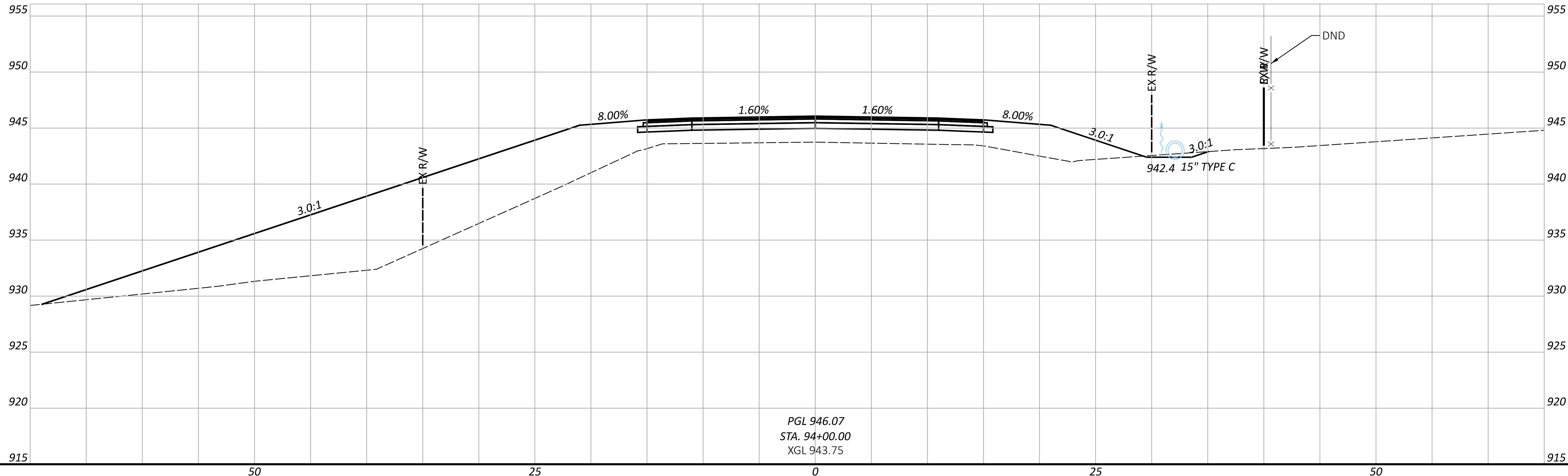
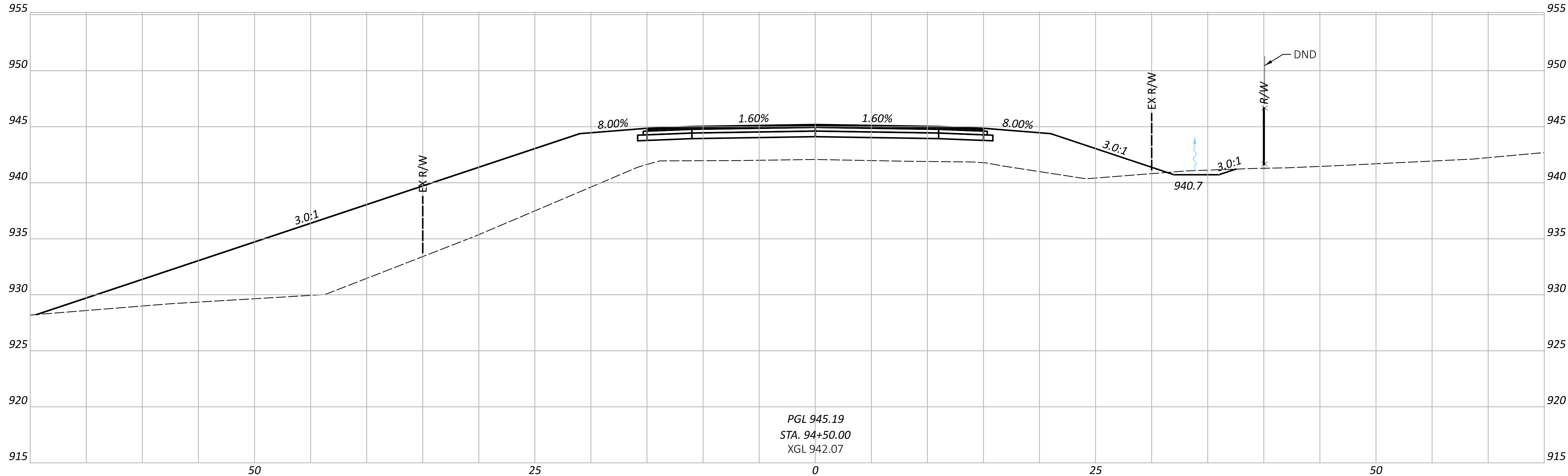
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CROSS SECTIONS - SR 158
STA. 93+00.00 TO STA. 93+50.00

DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29233 (843) 964-1700 www.arcadis.com	
DESIGNER	
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REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.22	TOTAL 53

FAI-158-3.18 & RAINBOW DRIVE



CROSS SECTIONS - SR 158



SM

DH 1

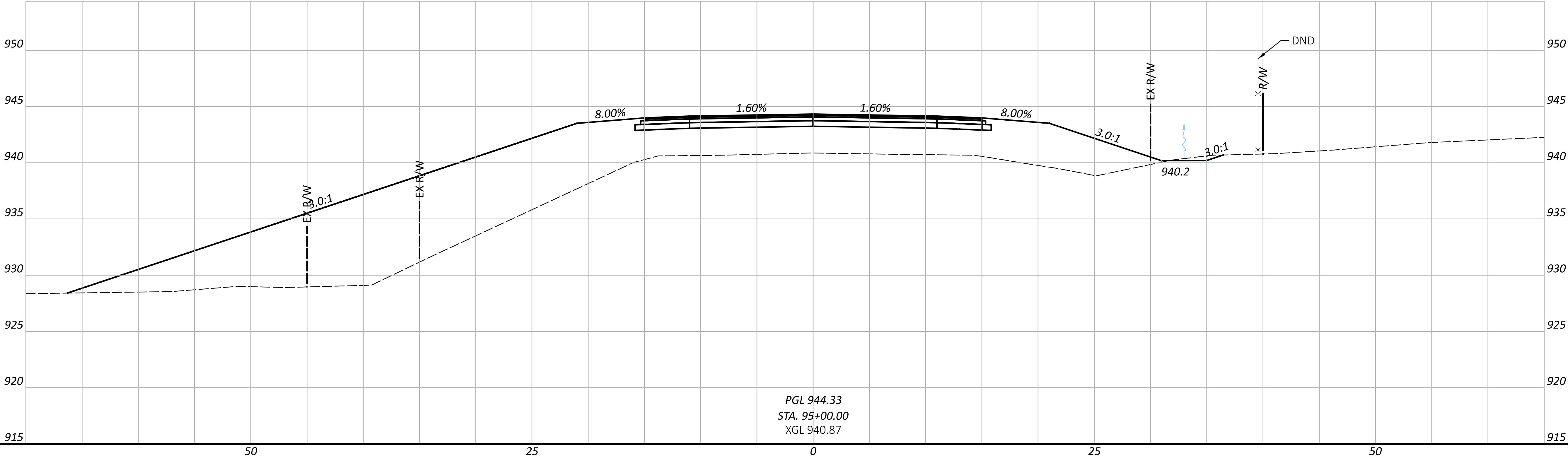
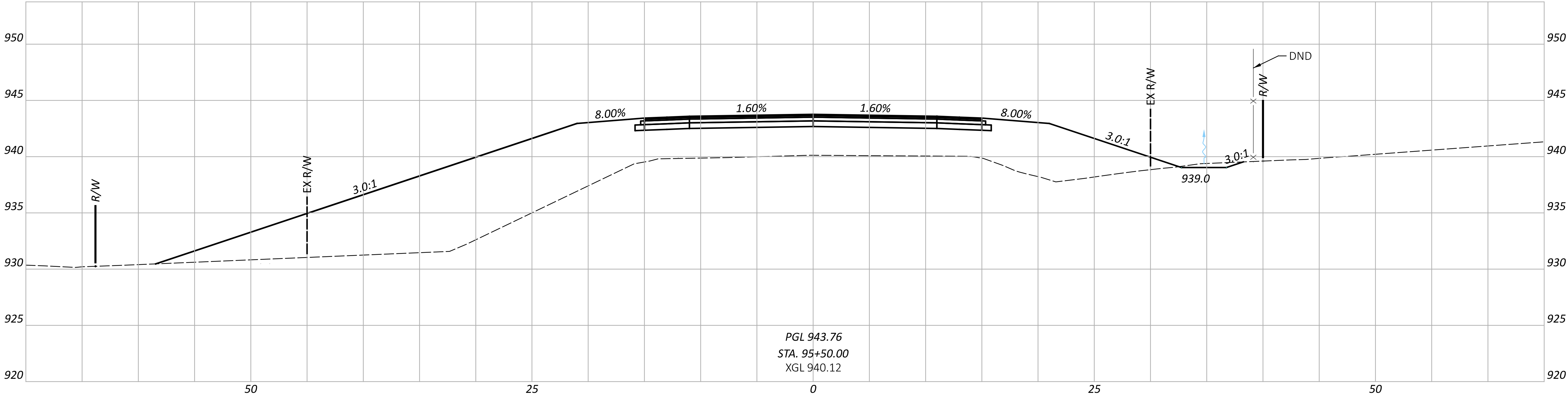
120

P.23

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_3 - 95+00.00 [Sheet] PAPER: 34x22 (in.) DATE: 12/1/2025 TIME: 4:42:29 PM PLTDR: OHDOT_PDF.plt USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEV2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25

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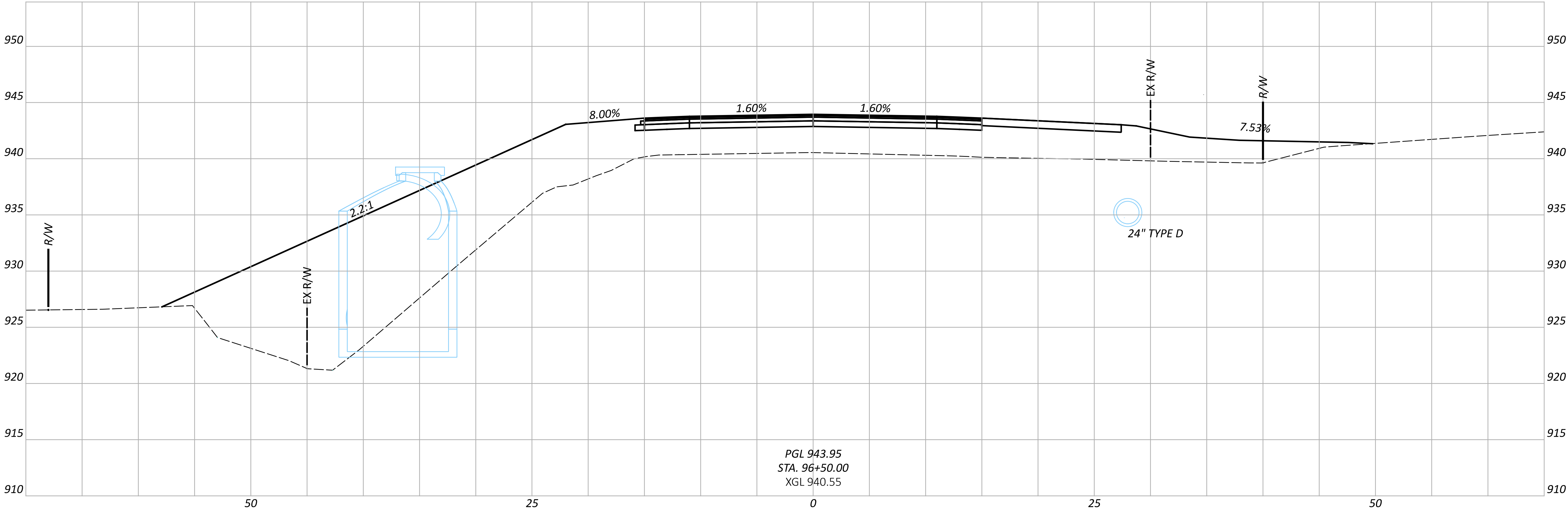


DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DRIVE, STE 100 COLUMBIA, SC 29203 (843) 964-1100 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.24	53

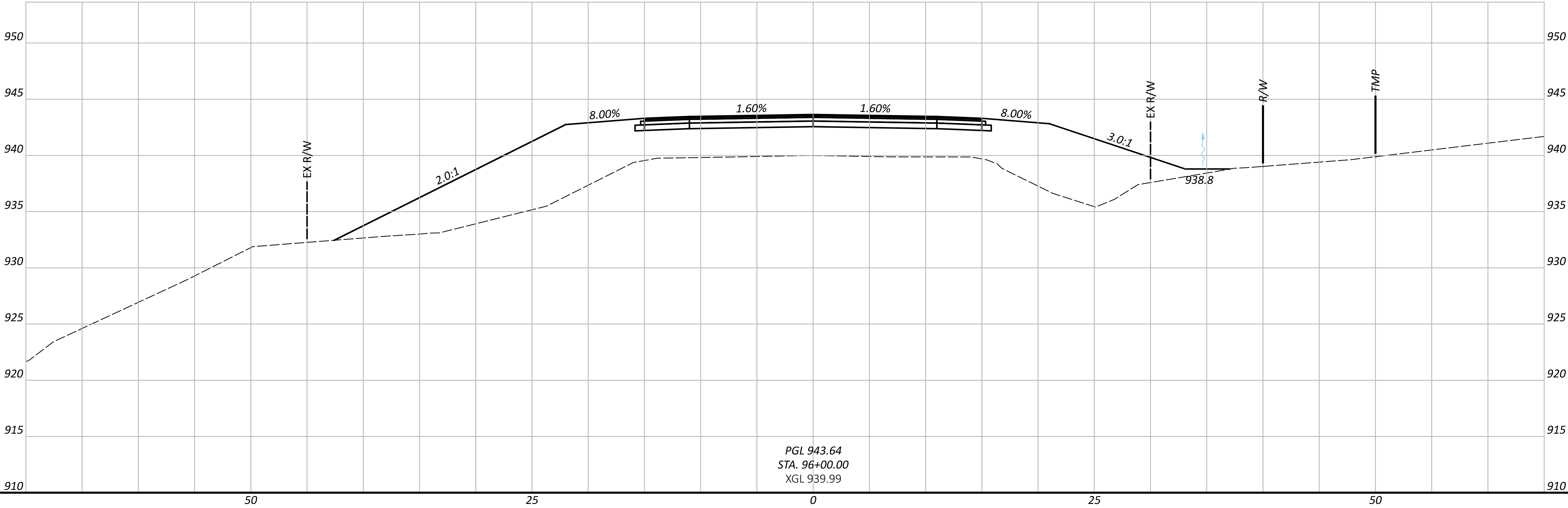
CROSS SECTIONS - SR 158
STA. 95+00.00 TO STA. 95+50.00

FAI-158-3.18 & RAINBOW DRIVE

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FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46

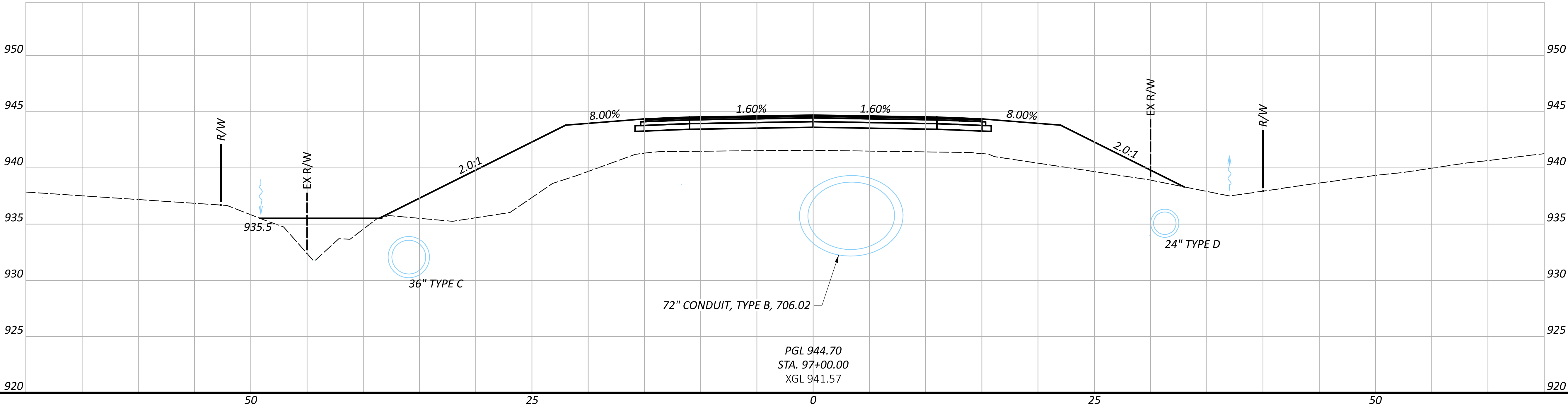
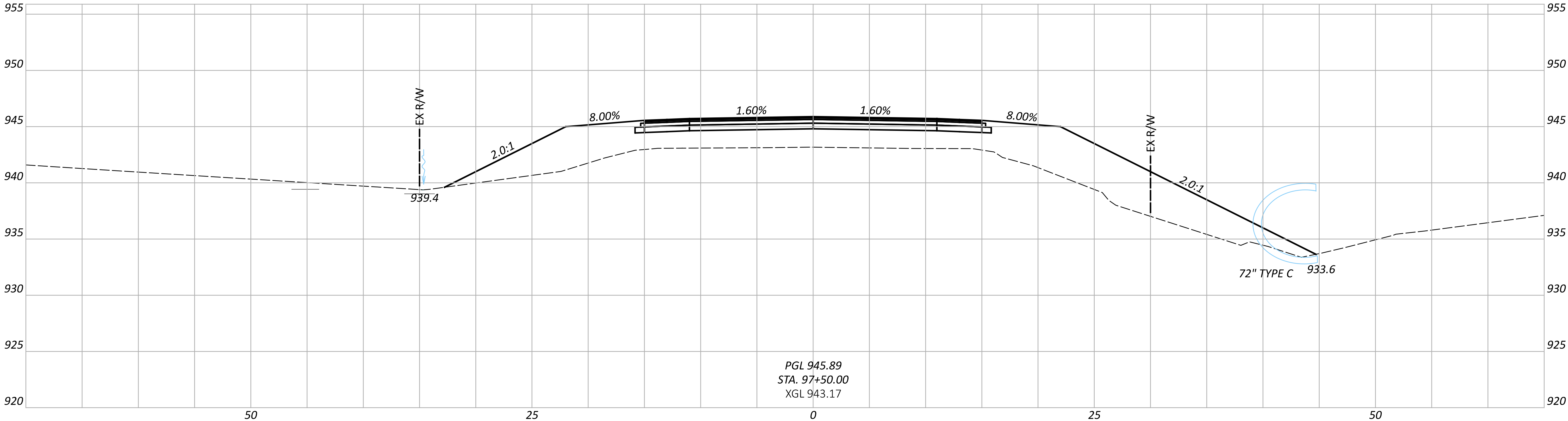


CROSS SECTIONS - SR 158
STA. 96+00.00 TO STA. 96+50.00

DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29233 (843) 964-1700 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.25	53

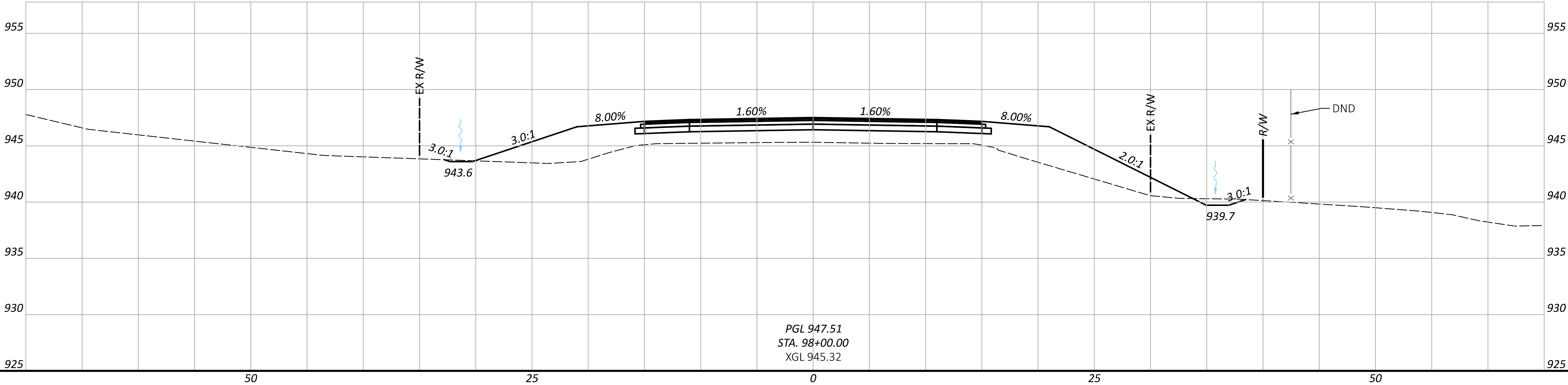
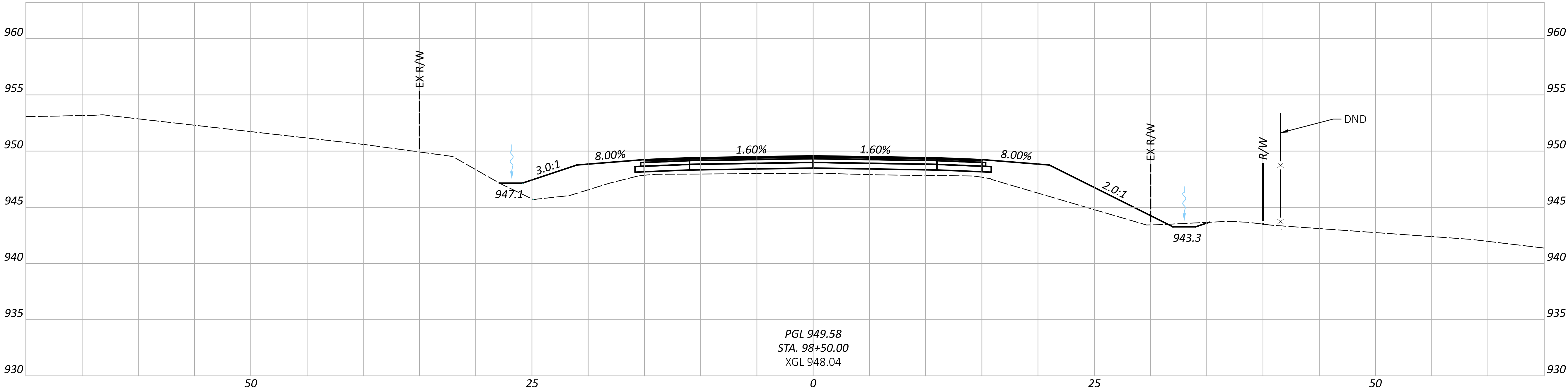
FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_3 - 97+00.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 12/1/2025 TIME: 4:42:37 PM PLTDRV: OHDOT_PDF.plt CFG: PENTBL: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEV2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
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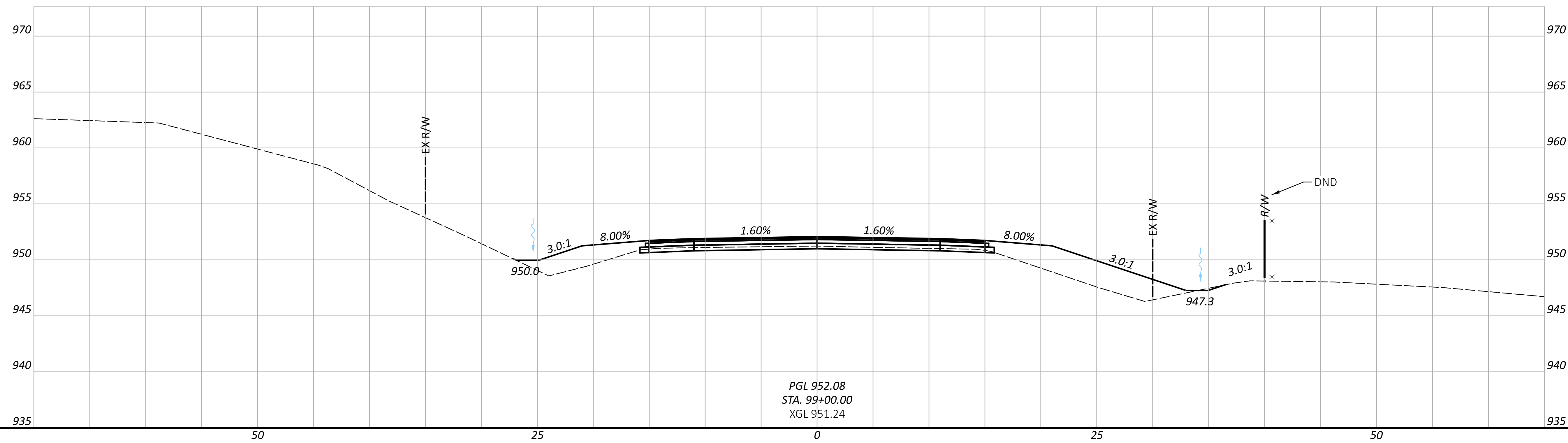
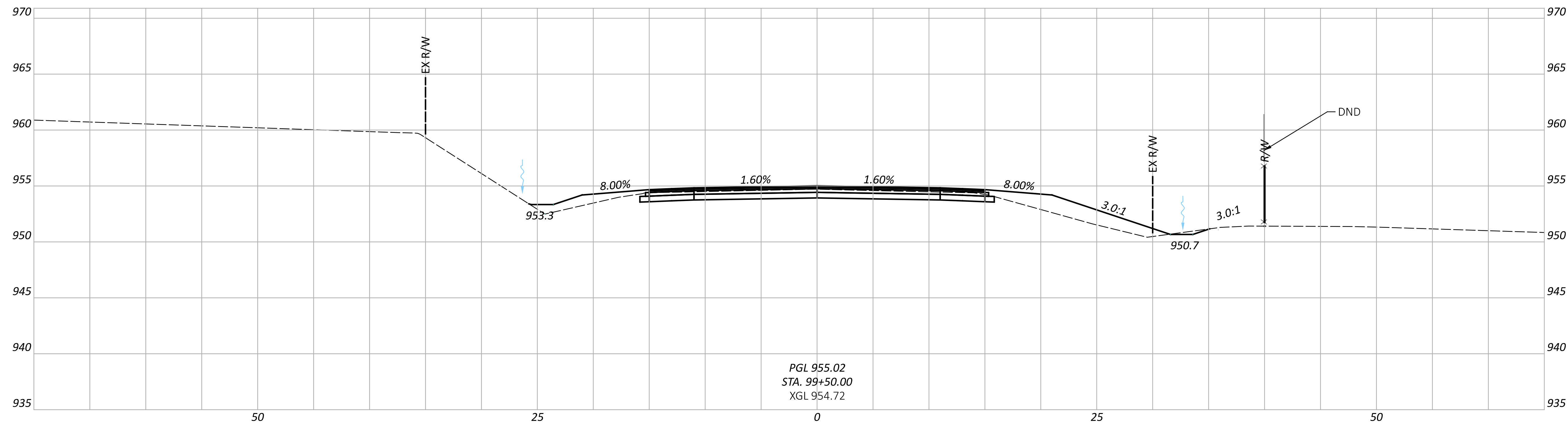
CROSS SECTIONS - SR 158
STA. 97+00.00 TO STA. 97+50.00

DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29210 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.26	TOTAL 53



FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_3 - 99+00.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 12/3/2025 TIME: 2:10:08 PM PTDRAW: OHDOT_PDF.plt GENBL: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735_PRODUCT: OpenRoadsDesigner 24.00.02.25
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CROSS SECTIONS - SR 158
STA. 99+00.00 TO STA. 99+50.00

DESIGN AGENCY

ARCADIS

7575 HUNTINGTON PARK DR, STE 130
COLUMBUS, OHIO 43235
(614) 985-9100
www.arcadis.com

DESIGNER
GMBH

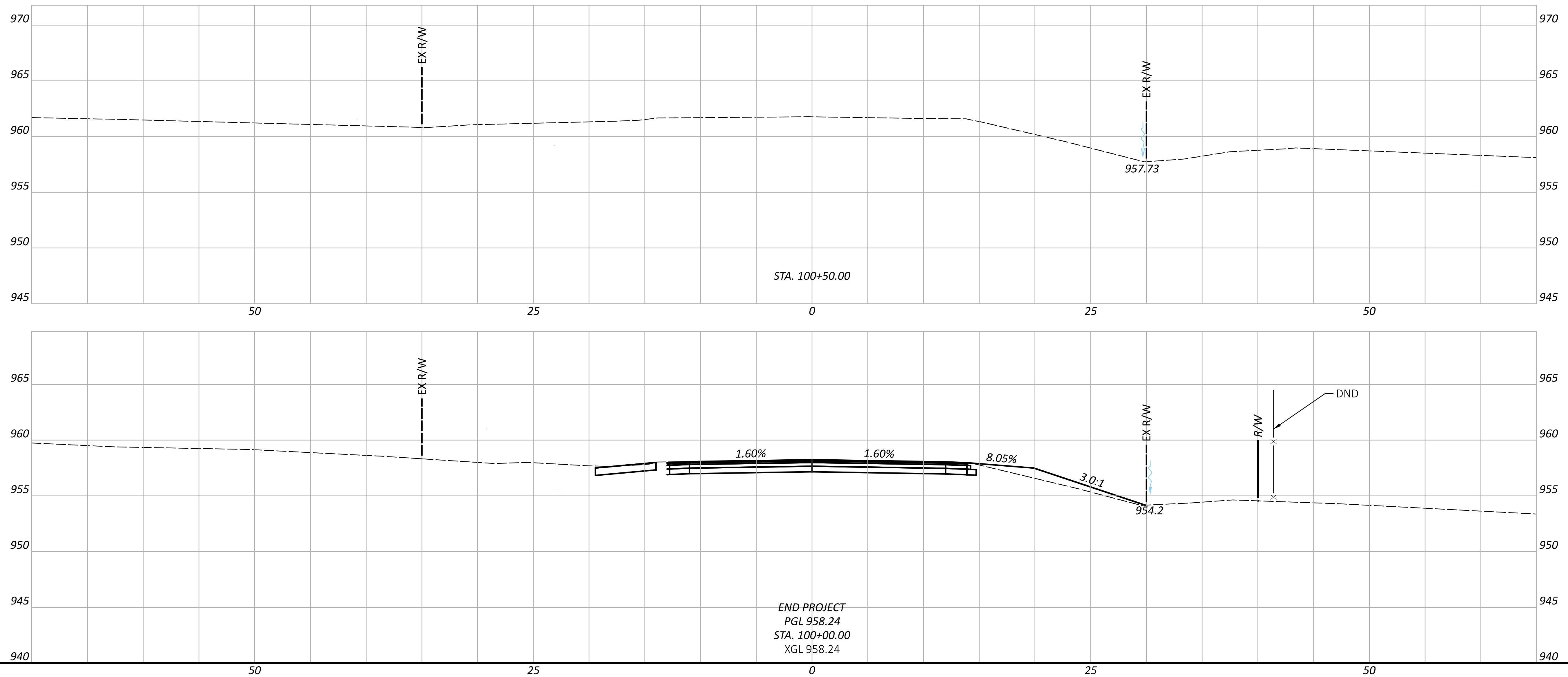
REVIEWER
JDH 12/01/2

PROJECT ID
120735

SHEET	TOTAL
P.28	53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLX_RW_3 - 100+00.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 12/3/2025 TIME: 2:10:13 PM PLOTTER: OHDOT_PDF.ctb USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCv2_24.00 WORKSET: 120735_PRODUCT: 120735_OPENROADS Designer 24.00.02.25
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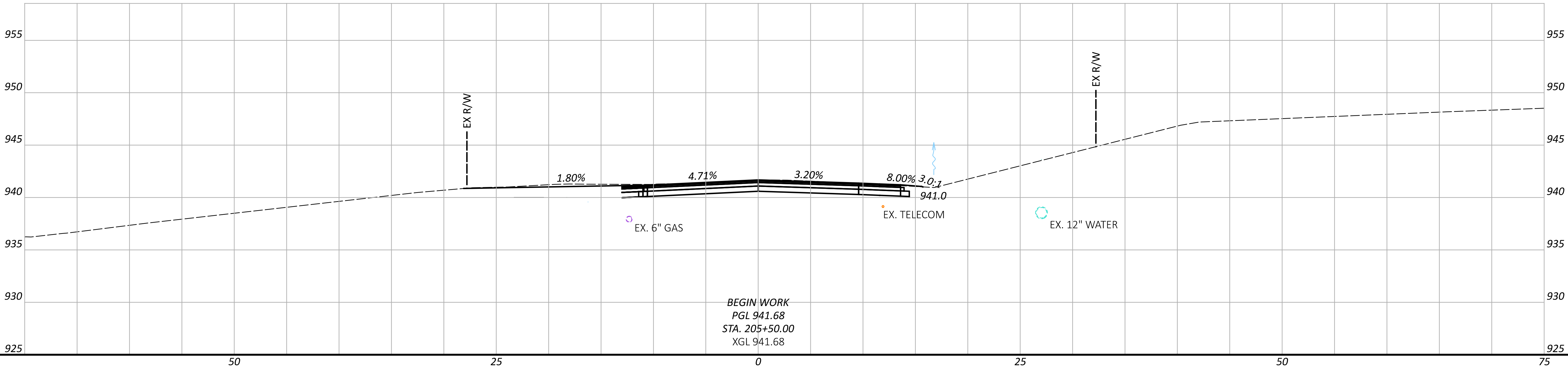
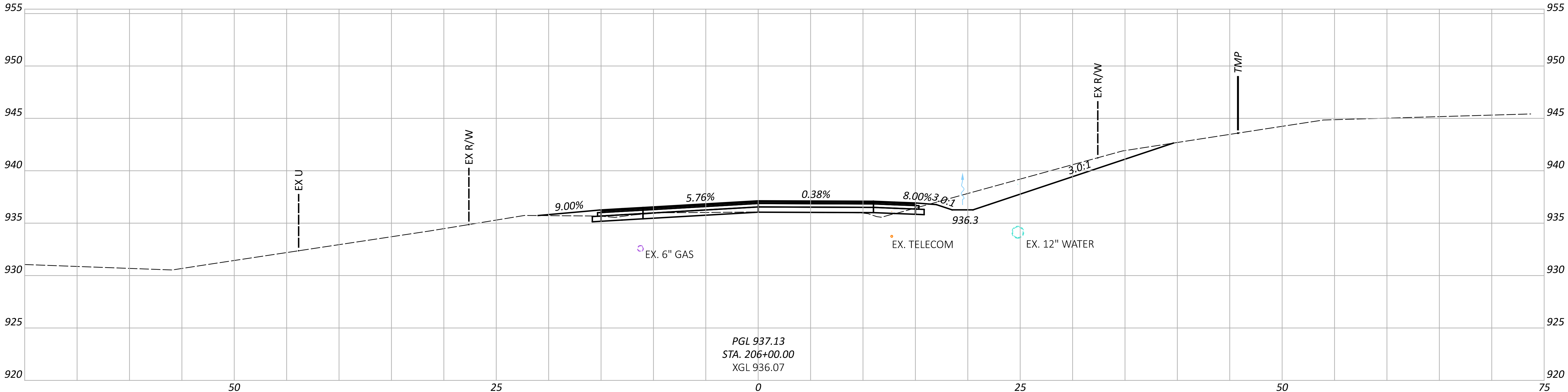
**FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46**

CROSS SECTIONS - SR 158
STA. 100+00.00 TO STA. 100+50.00

DESIGN AGENCY  ARCADIS 7575 HUNTINGTON PARK DR, STE 130 COLUMBUS, OHIO 43235 (614) 985-9100 www.arcadis.com	
DESIGNER	SMB
REVIEWER	JDH 12/01/25
PROJECT ID	120735
SHEET	P.29
TOTAL	53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLP_RainbowWest - 205+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/1/2025 TIME: 4:43:01 PM PLTDRV: OHDOT_PDF.plt CFG: PENTBL: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
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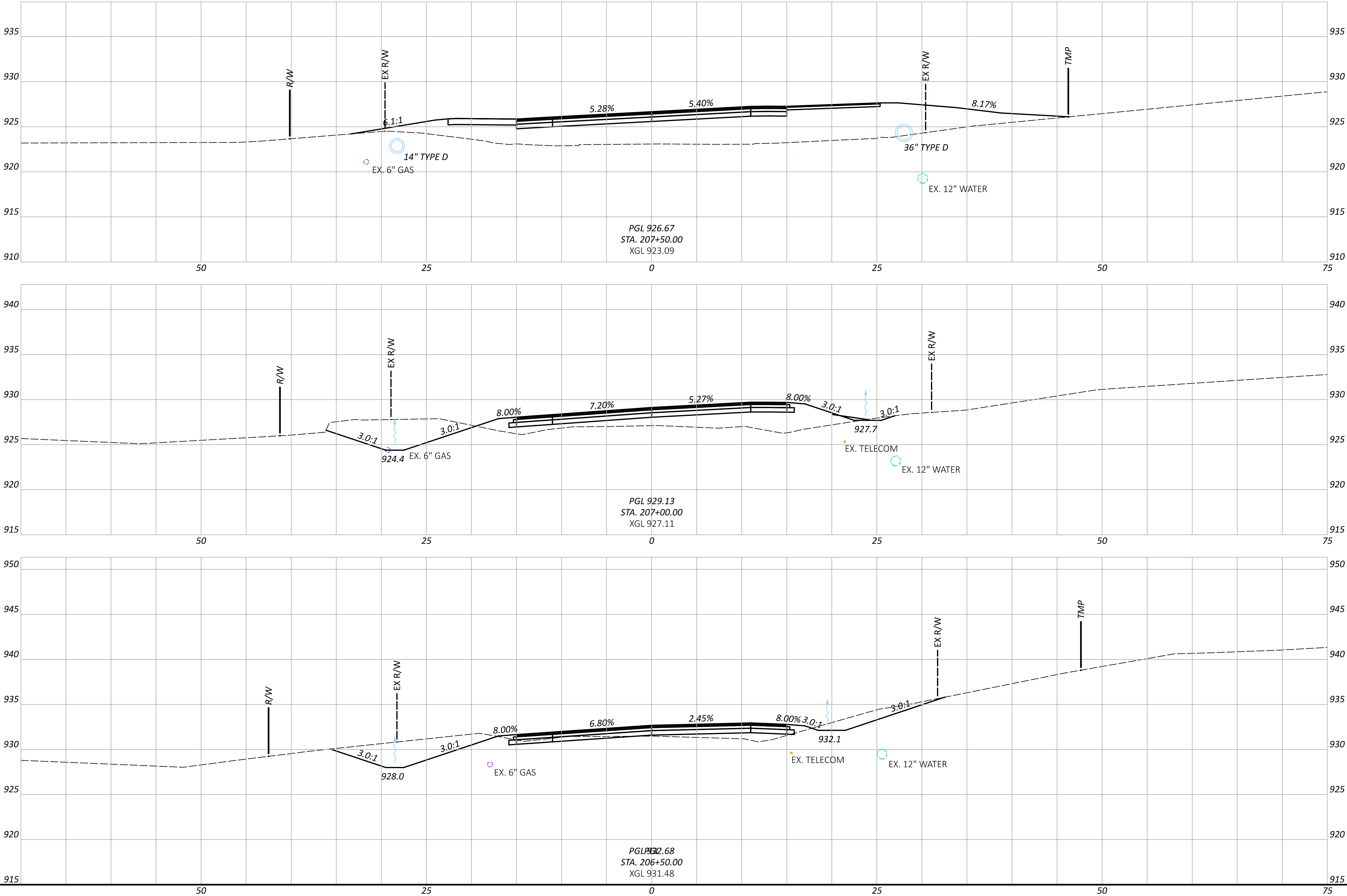


CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 205+50.00 TO STA. 206+00.00

DESIGN AGENCY	
ARCADIS	
7575 HUNTING PARK DRIVE, STE 100 COLUMBIA, MD 21046 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.30	TOTAL 53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLP_RainbowWest - 206+50.00 [Sheet] PAPER: 34x22 (in.) DATE: 12/1/2025 TIME: 4:43:07 PM PLTDRV: OHDOT_PDF.plt PLOT: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoads Designer 24.00.02.25
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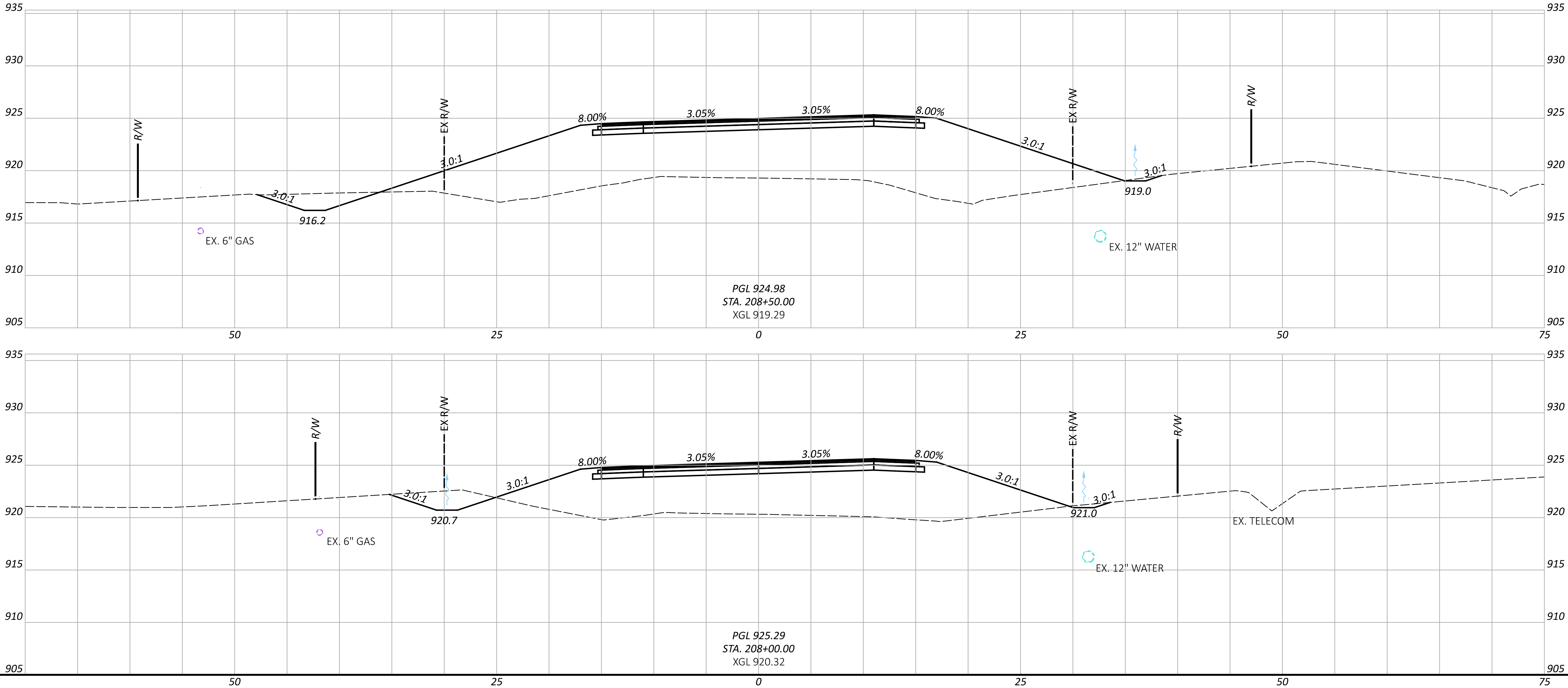
FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46

CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 206+50.00 TO STA. 207+50.00

DESIGN AGENCY	
ARCADIS	
1755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29210 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.31	53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLP_RainbowWest - 208+00.00 [Sheet] PAPER: 34x22 (in.) DATE: 12/1/2025 TIME: 4:43:13 PM PLTDRV: OHDOT_PDF.plt PLOT: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
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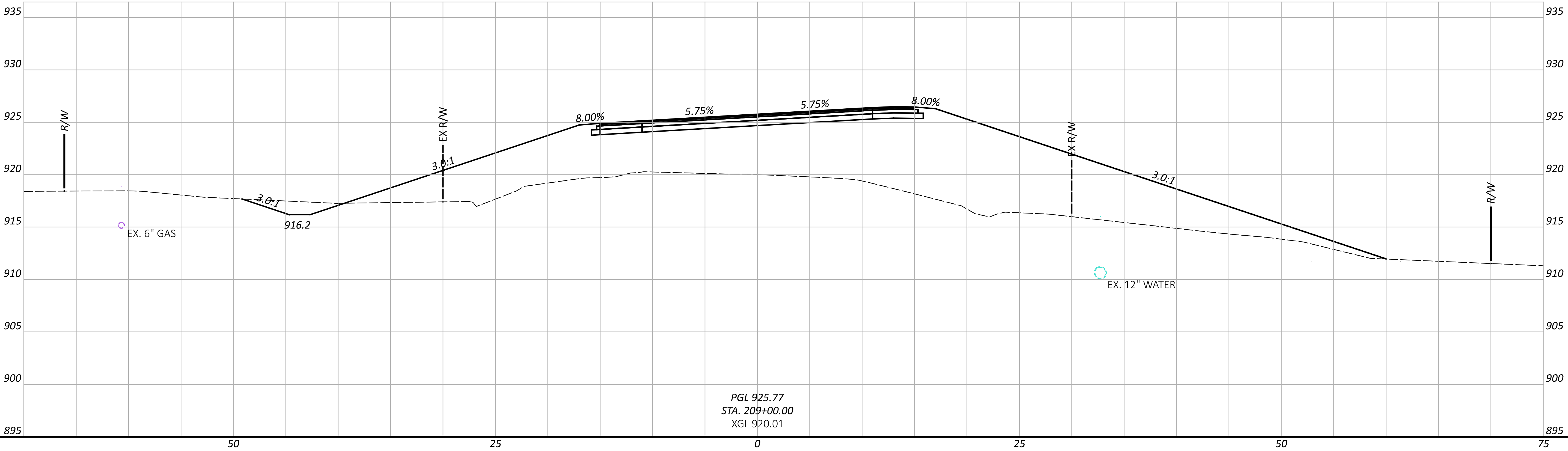
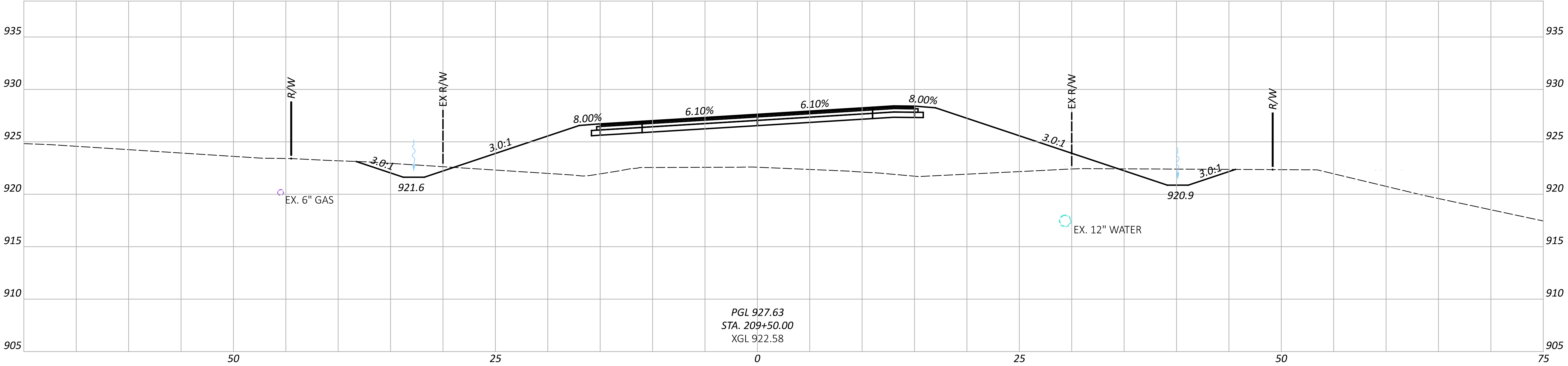


CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 208+00.00 TO STA. 208+50.00

DESIGN AGENCY	
ARCADIS	
7575 HUNTING PARK DRIVE, STE 100 COLUMBUS, OH 43223 (614) 964-1700 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.32	53

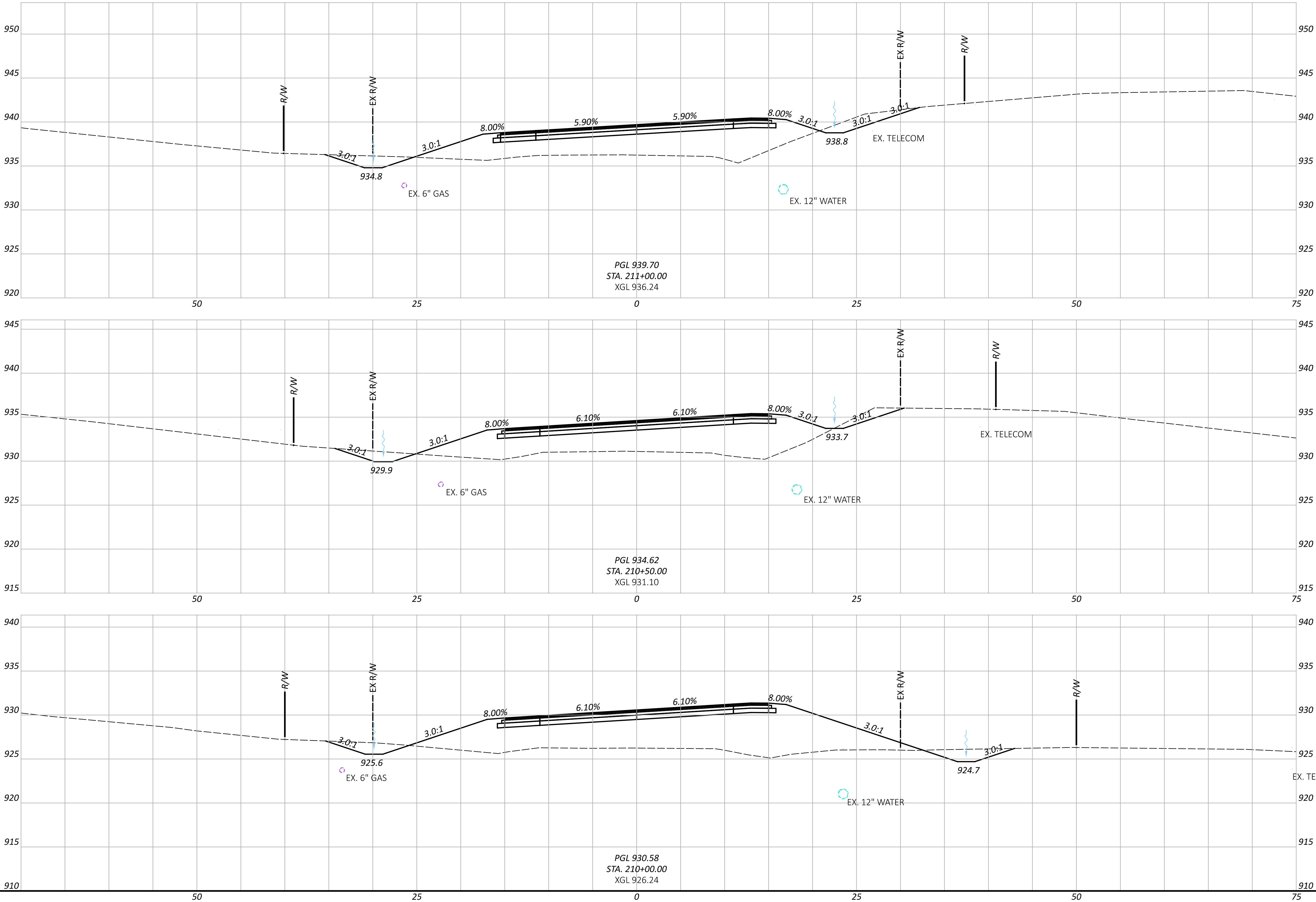
FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLP_RainbowWest - 209+00.00 [Sheet] PAPER SIZE: 34x22 (in.) DATE: 12/1/2025 TIME: 4:43:17 PM PLTDRV: OHDOT_PDF.plt PENTBL: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoads Designer 24.00.02.25
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CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 209+00.00 TO STA. 209+50.00

DESIGN AGENCY	
ARCADIS	
7575 HUNTING PARK DR, STE 100 COLUMBIA, MD 21046 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.33	53



CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 210+00.00 TO STA. 211+00.00

DESIGN AGENCY
ARCADIS
1755 HUNTING PARK DRIVE, STE 100
COLUMBIA, SC 29210
www.arcadis.com

DESIGNER
SMB

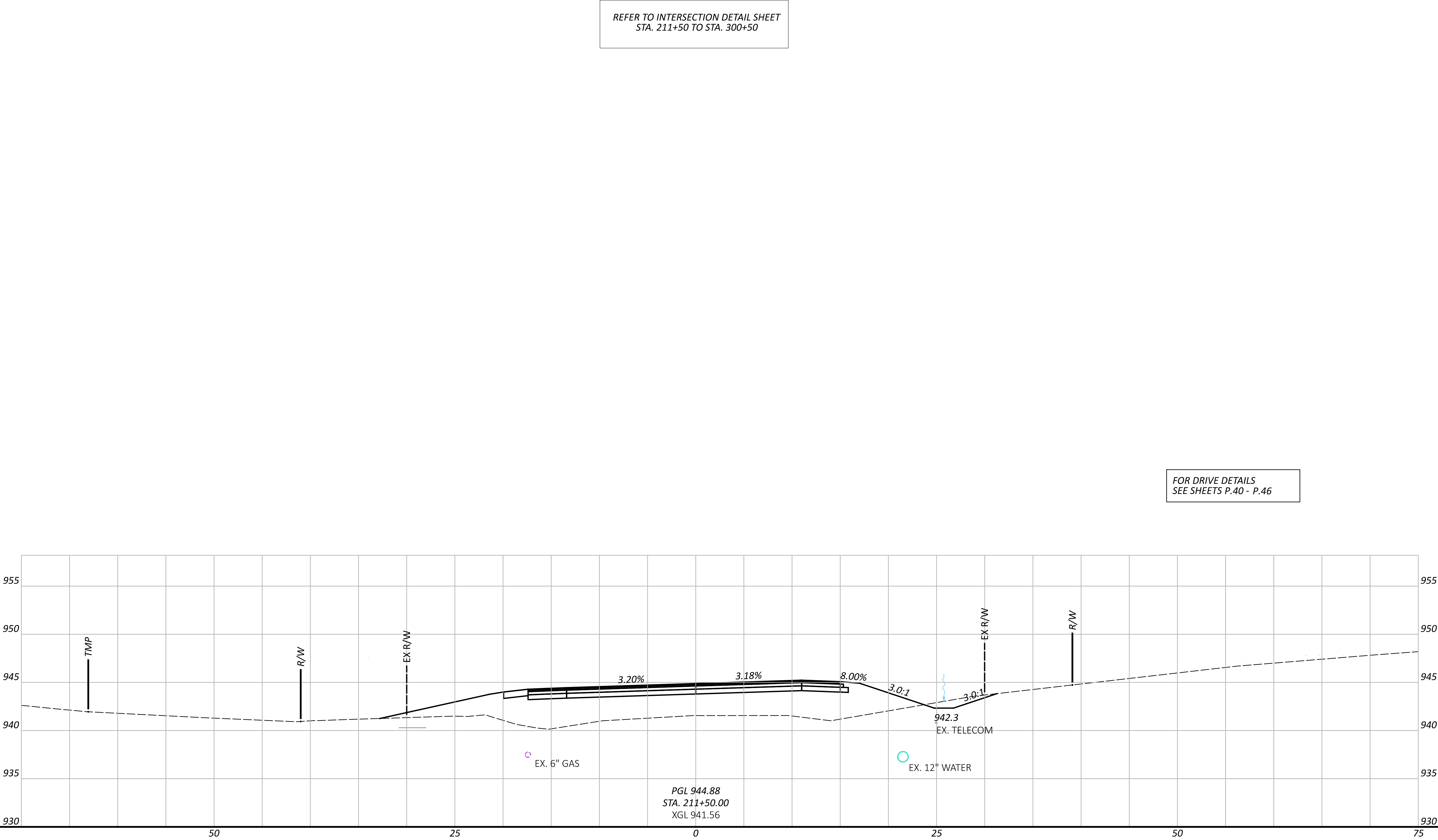
REVIEWER
JDH 12/01/25

PROJECT ID
120735

SHEET
P.34 TOTAL
53

FAI-158-3.18 & RAINBOW DRIVE

MODEL: CLP_RainbowWest - 211+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 12/1/2025 TIME: 4:43:26 PM PLTDRV: OHDOT_PDF.pltcfg PENTBL: OHDOT_UTPen.tbl USER: stephanie.otten@arcadis.com WORKSPACE: OHDOTCEv2_24.00 WORKSET: 120735 PRODUCT: OpenRoadsDesigner 24.00.02.25
pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400_CAD\120735\400-Engineering\Roadway\Sheets\120735_XS002.dgn



CROSS SECTIONS - RAINBOW DRIVE WEST
STA. 211+50.00 TO STA. 211+80.00

DESIGN AGENCY	
ARCADIS	
755 HUNTING PARK DR, STE 100 COLUMBIA, SC 29203 (843) 964-1100 www.arcadis.com	
DESIGNER	
SMB	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	
P.35	TOTAL 53



FOR DRIVE DETAILS
SEE SHEETS P.40 - P.46

CROSS SECTIONS - RAINBOW DRIVE EAST
STA. 300+50.00 TO STA. 301+50.00

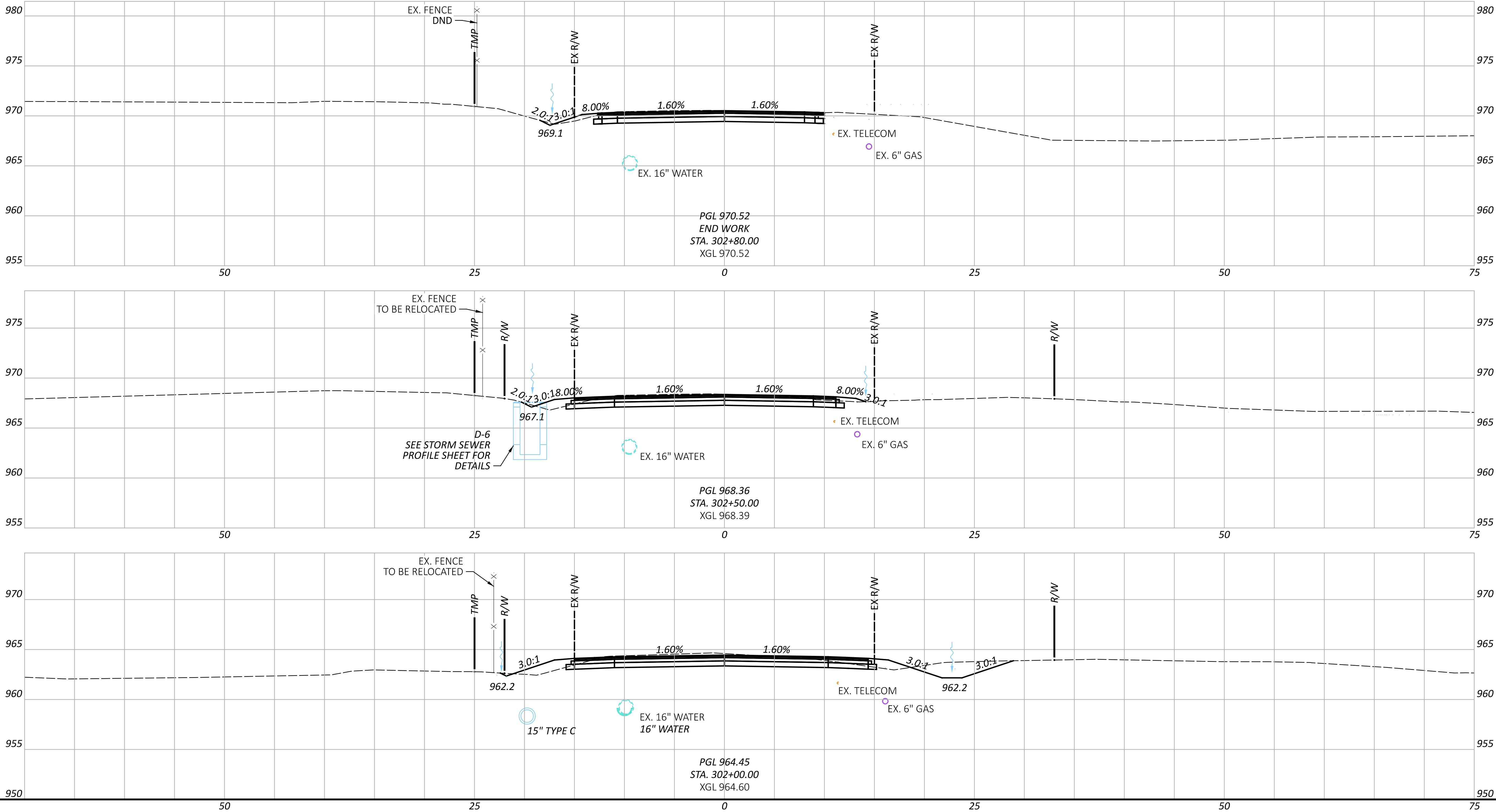
DESIGN AGENCY
ARCADIS
1755 HUNTING PARK DR, STE 100
COLUMBIA, SC 29210
www.arcadis.com

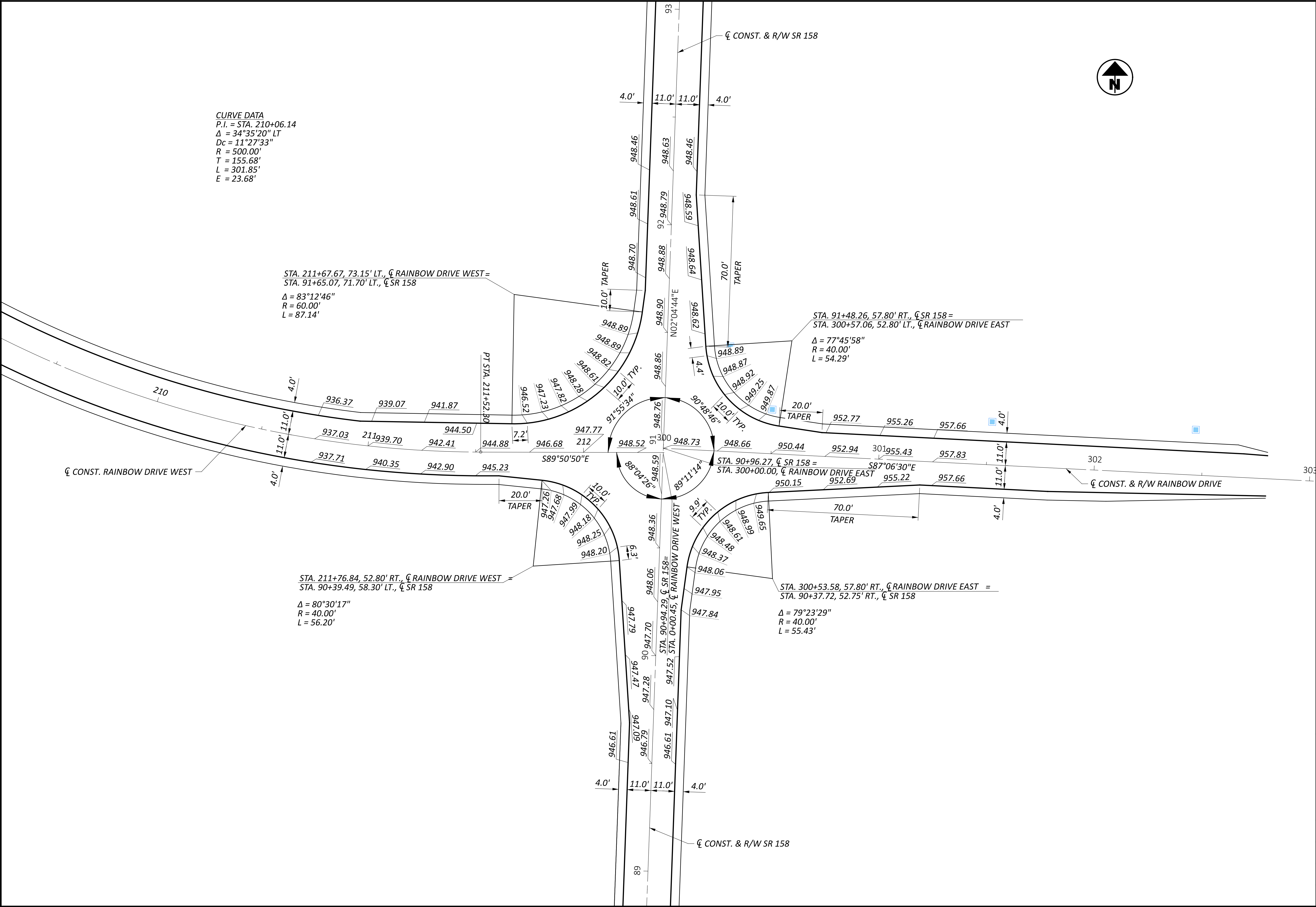
DESIGNER
SMB

REVIEWER
JDH 12/01/25

PROJECT ID
120735

SHEET TOTAL
P.36 53





CURVE DATA
P.I. = STA. 210+06.14
 $\Delta = 34^\circ 35' 20''$ LT
 $D_c = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 155.68'$
 $L = 301.85'$
 $E = 23.68'$

STA. 211+67.67, 73.15' LT., ϕ RAINBOW DRIVE WEST =
STA. 91+65.07, 71.70' LT., ϕ SR 158
 $\Delta = 83^\circ 12' 46''$
 $R = 60.00'$
 $L = 87.14'$

STA. 211+76.84, 52.80' RT., ϕ RAINBOW DRIVE WEST =
STA. 90+39.49, 58.30' LT., ϕ SR 158
 $\Delta = 80^\circ 30' 17''$
 $R = 40.00'$
 $L = 56.20'$

STA. 91+48.26, 57.80' RT., ϕ SR 158 =
STA. 300+57.06, 52.80' LT., ϕ RAINBOW DRIVE EAST
 $\Delta = 77^\circ 45' 58''$
 $R = 40.00'$
 $L = 54.29'$

STA. 90+96.27, ϕ SR 158 =
STA. 300+00.00, ϕ RAINBOW DRIVE EAST

STA. 300+53.58, 57.80' RT., ϕ RAINBOW DRIVE EAST =
STA. 90+37.72, 52.75' RT., ϕ SR 158
 $\Delta = 79^\circ 23' 29''$
 $R = 40.00'$
 $L = 55.43'$



HORIZONTAL
SCALE IN FEET
0 10 20 40

INTERSECTION DETAIL

DESIGN AGENCY
ARCADIS
755 HUNTING PARK DR, STE 100
COLLEGE PARK, MD 20740
www.arcadis.com

DESIGNER
SRO
REVIEWER
JDH 12-01-25
PROJECT ID
120735
SHEET TOTAL
P.39 **53**

PROPOSED LEGEND

- 1

ITEM 441 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
- 2

ITEM 407 - NON-TRACKING TACK COAT
- 3

ITEM 301 - 3.5" ASPHALT CONCRETE BASE, PG64-22, (449)
- 4

ITEM 304 - 6" AGGREGATE BASE
- 5

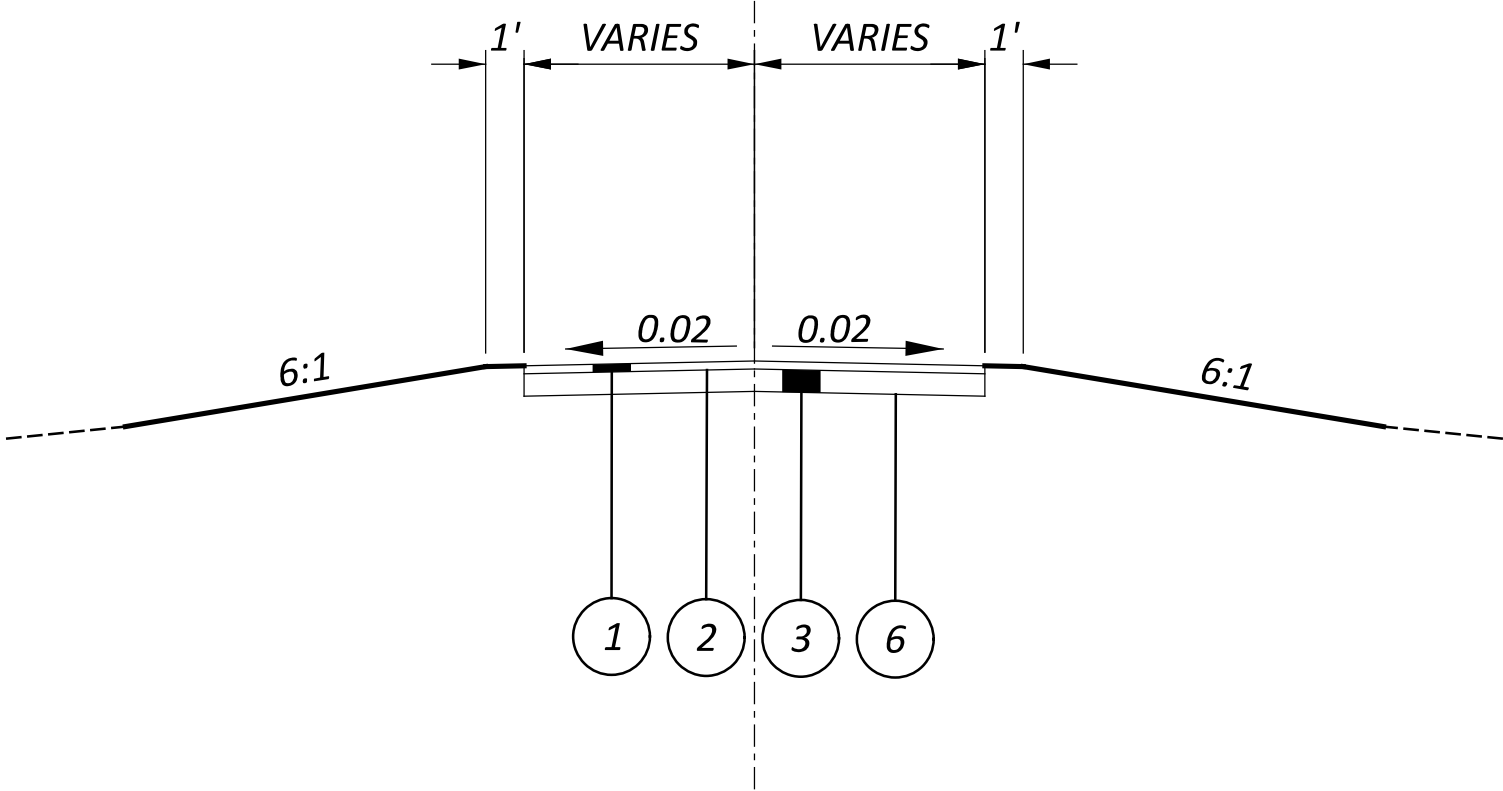
ITEM 304 - 8" AGGREGATE BASE
- 6

ITEM 204 - SUBGRADE COMPACTION

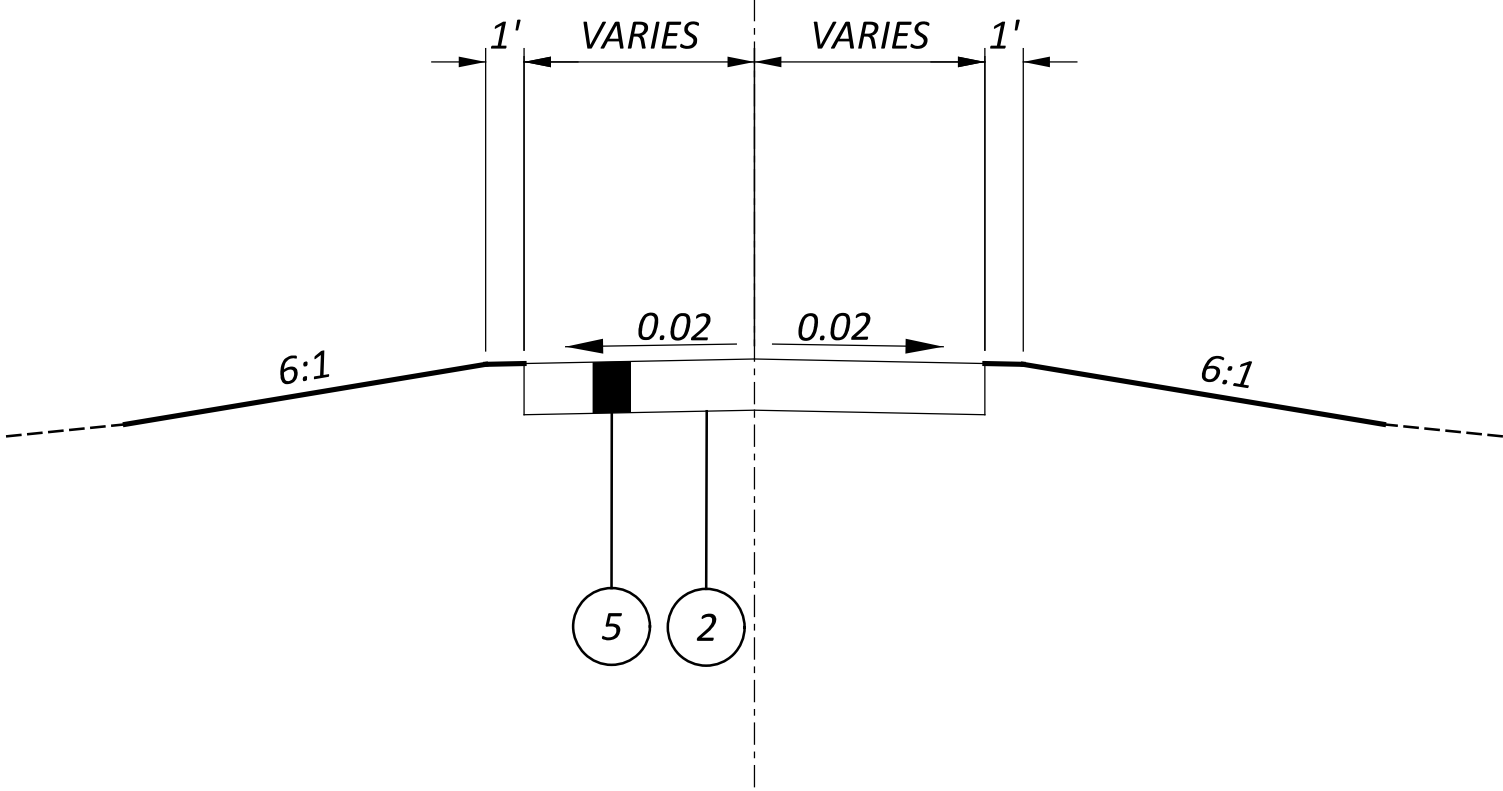
REF NO.	SHEET NO.	ROUTE	STATION	SIDE	CADD AREA (SF)	DRIVE TYPE						
DR-1		SR 158	85+71.04	RT		RESIDENTIAL ASPHALT						
DR-2		SR 158	85+89.60	RT		RESIDENTIAL ASPHALT						
DR-3		SR 158	86+96.51	RT		RESIDENTIAL ASPHALT						
DR-4		SR 158	87+96.47	LT		AGGREGATE FIELD						
DR-5		SR 158	87+97.38	RT		RESIDENTIAL ASPHALT						
DR-6		SR 158	96+44.24	RT		RESIDENTIAL AGGREGATE						
DR-7		SR 158	99+89.90	LT		RESIDENTIAL AGGREGATE						
DR-8		RAINBOW WEST	207+26.74	RT		RESIDENTIAL ASPHALT						
DR-9		RAINBOW WEST	207+33.97	LT		RESIDENTIAL AGGREGATE						
DR-10		RAINBOW WEST	233+29.22	LT		RESIDENTIAL AGGREGATE						
DR-10		RAINBOW EAST	300+86.55	LT		RESIDENTIAL ASPHALT						
DR-11		RAINBOW EAST	301+58.21	RT		RESIDENTIAL AGGREGATE						
TOTALS CARRIED TO GENERAL SUMMARY												

NOTES:

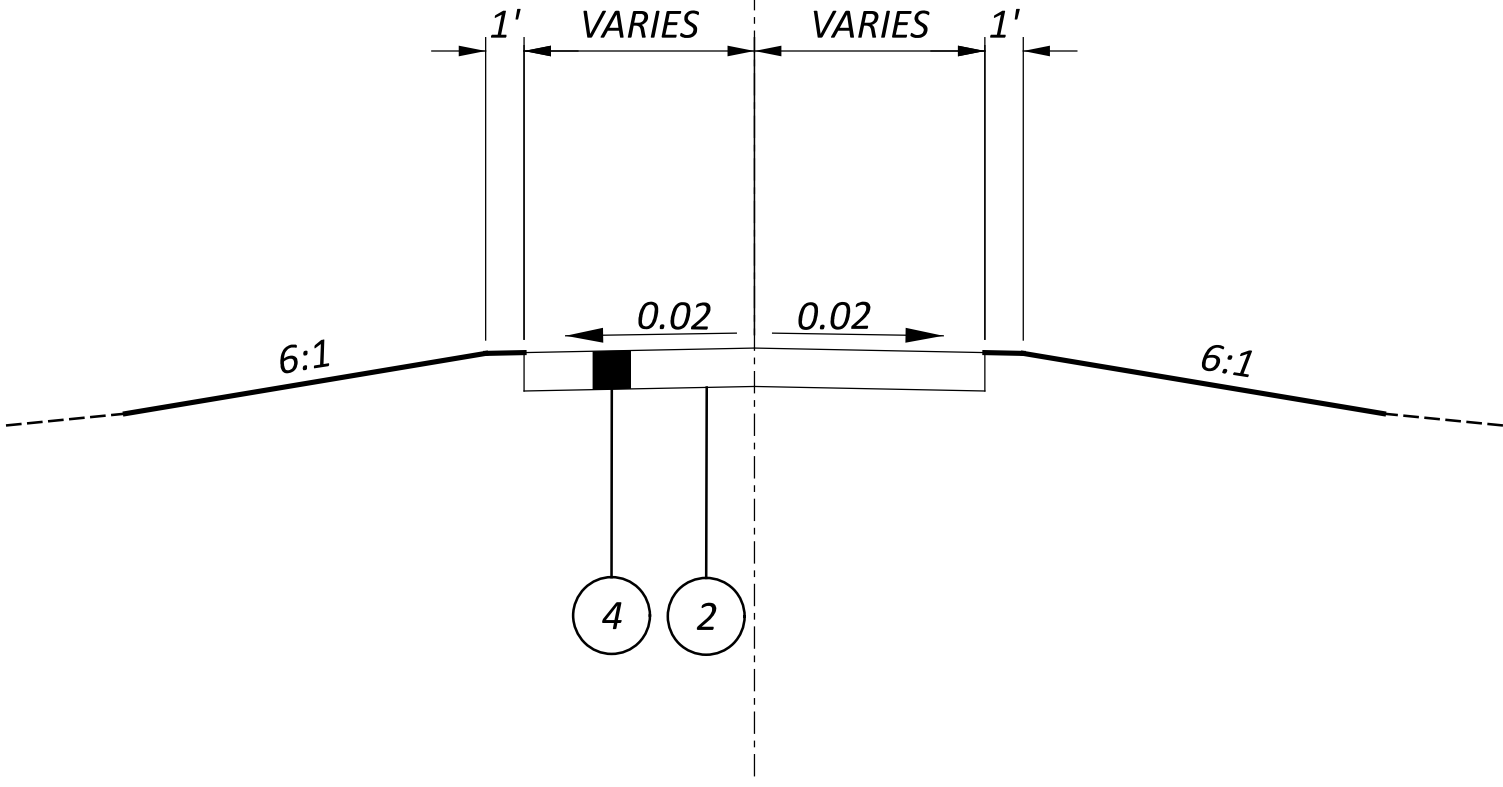
1. FOR DRIVE PROFILES AND DRIVE DETAILS SEE PAVEMENT DETAIL SHEETS P.41 - P.45



RESIDENTIAL ASPHALT DRIVEWAY



RESIDENTIAL AGGREGATE DRIVEWAY

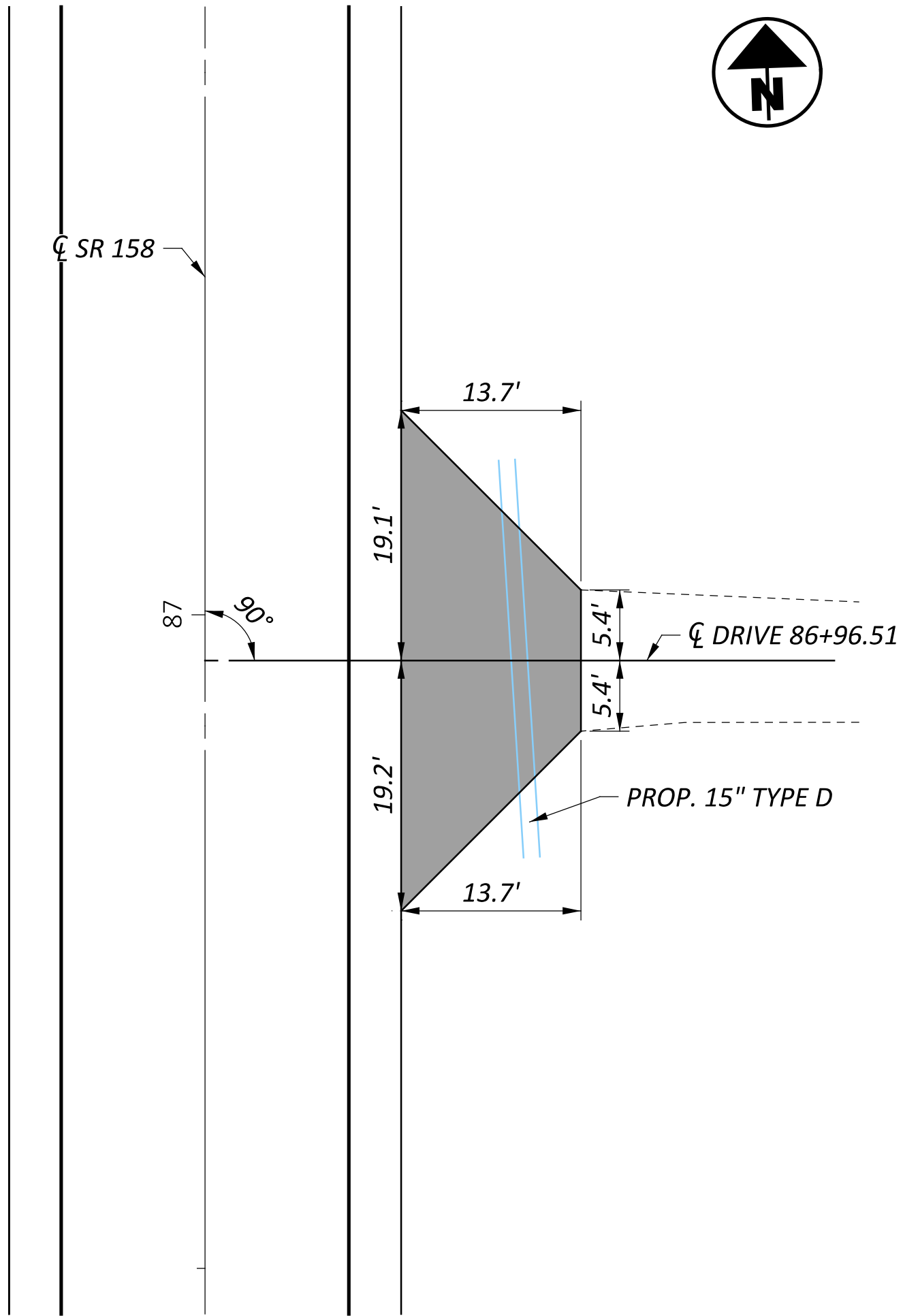
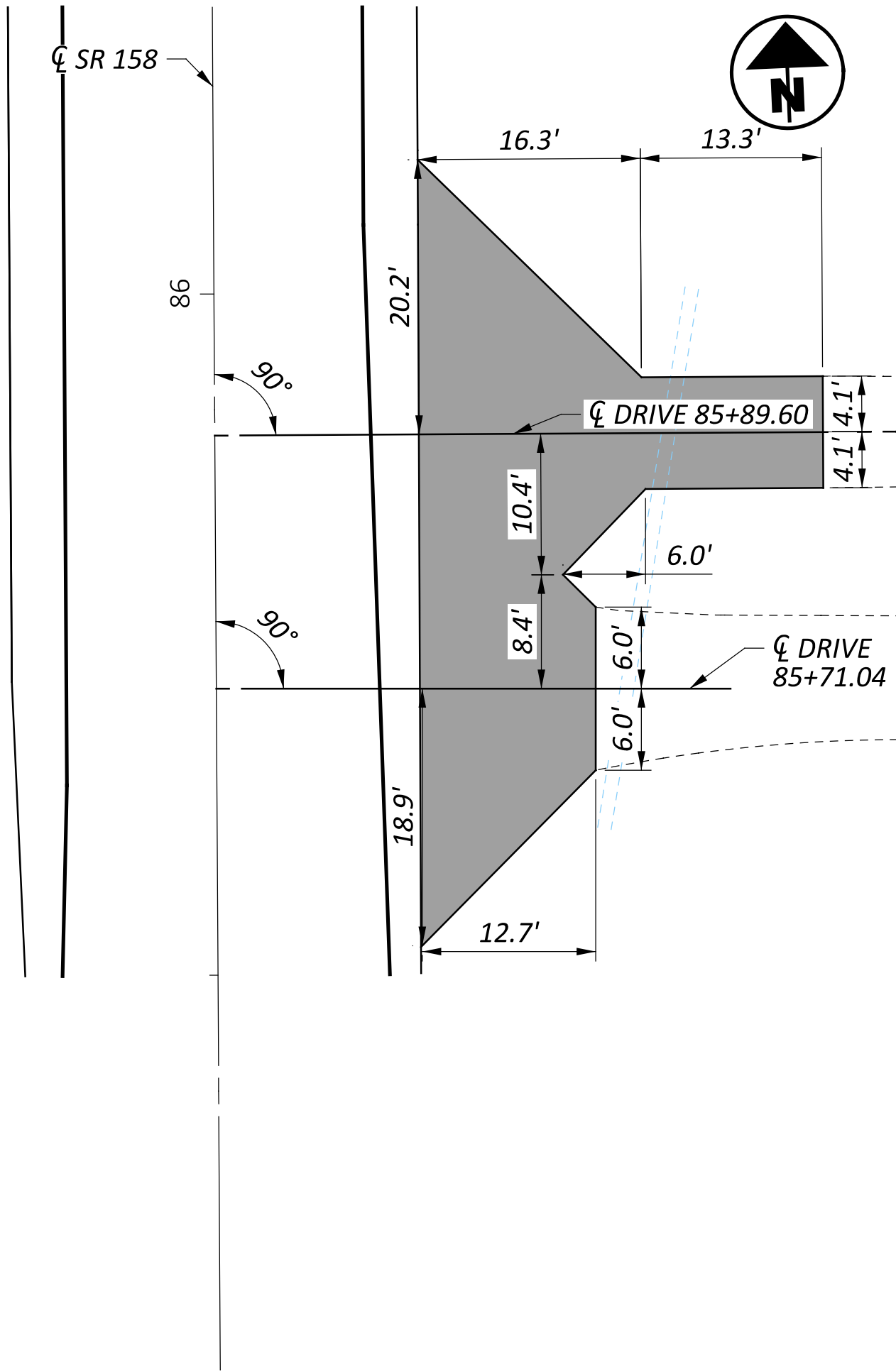
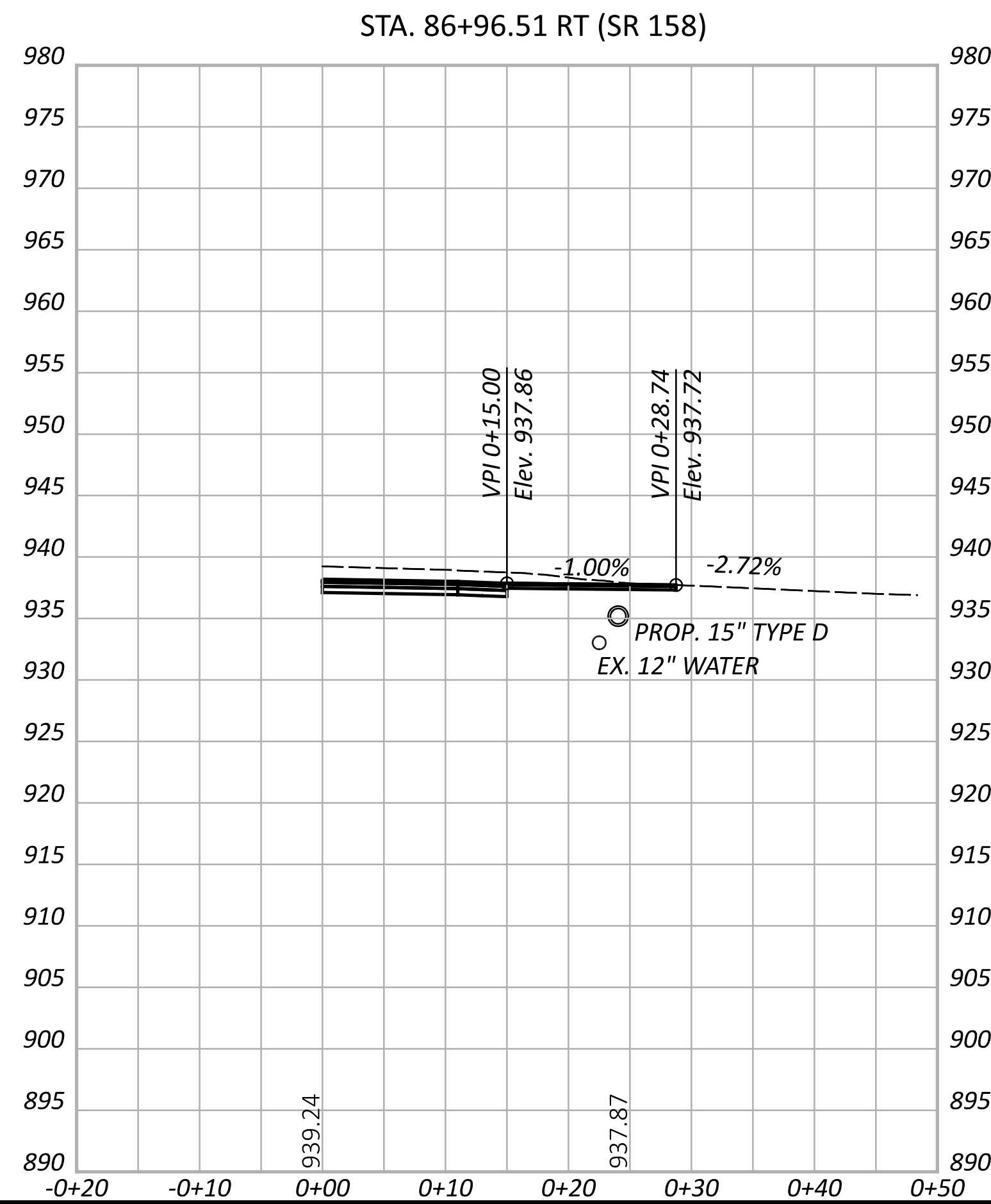
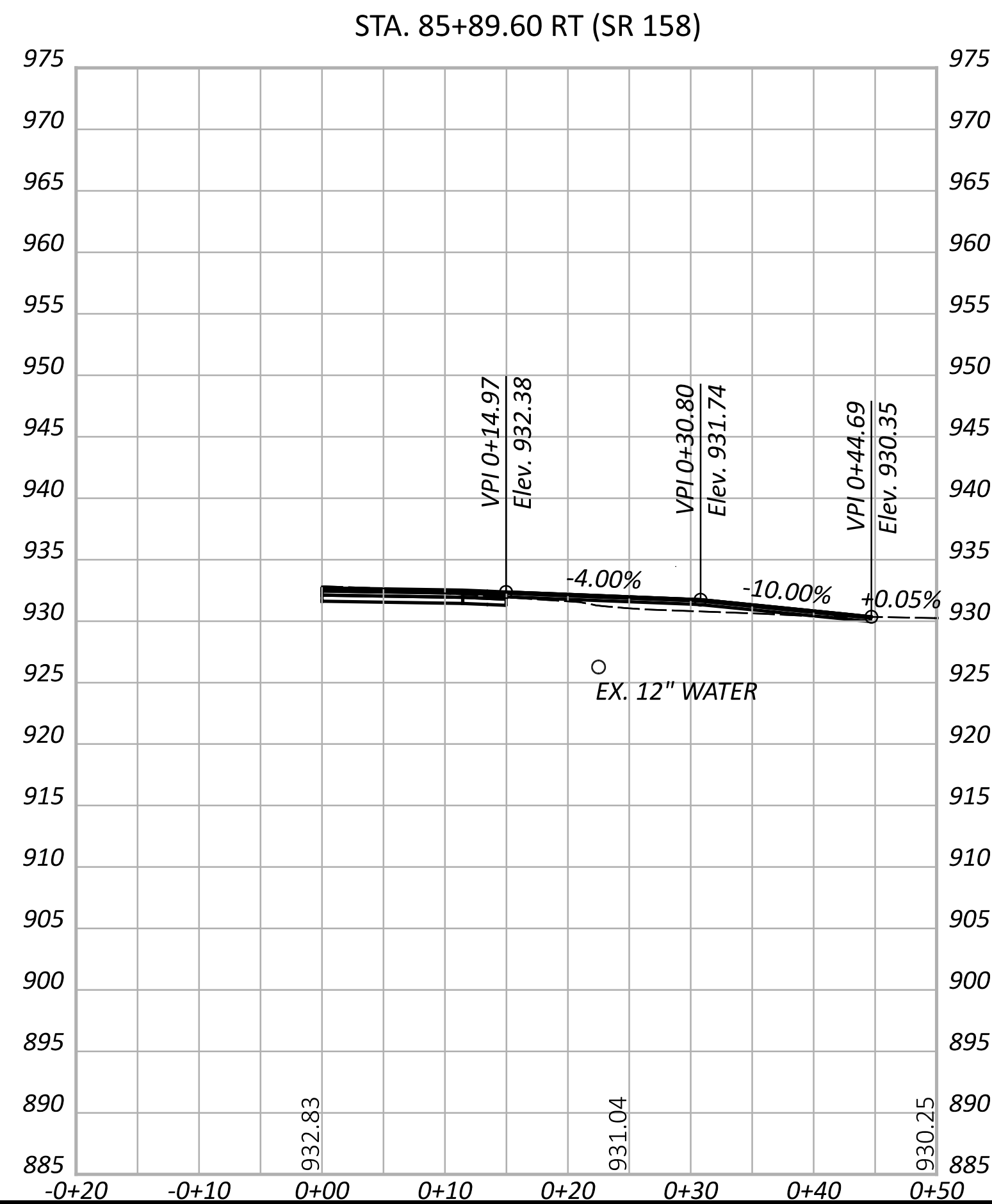
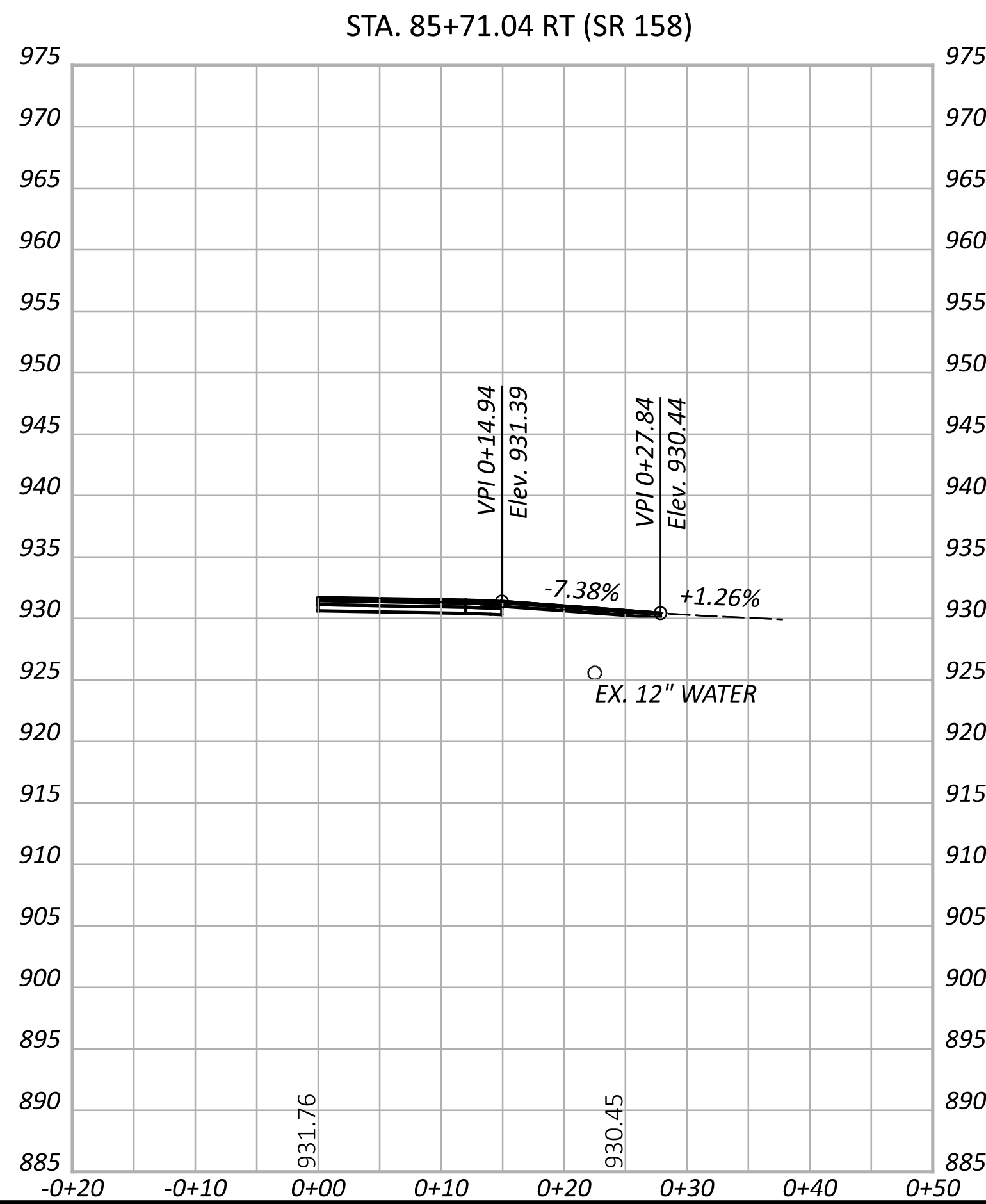


FIELD AGGREGATE DRIVEWAY

DRIVE DETAILS

FAI-158-3.18 & RAINBOW DRIVE

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pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\302742\18\400 CAD\120735\400-Engineering\Roadway\Basemaps\120735 BK201.dgn



DRIVE DETAIL

SR 158

HORIZONTAL
SCALE IN FEET



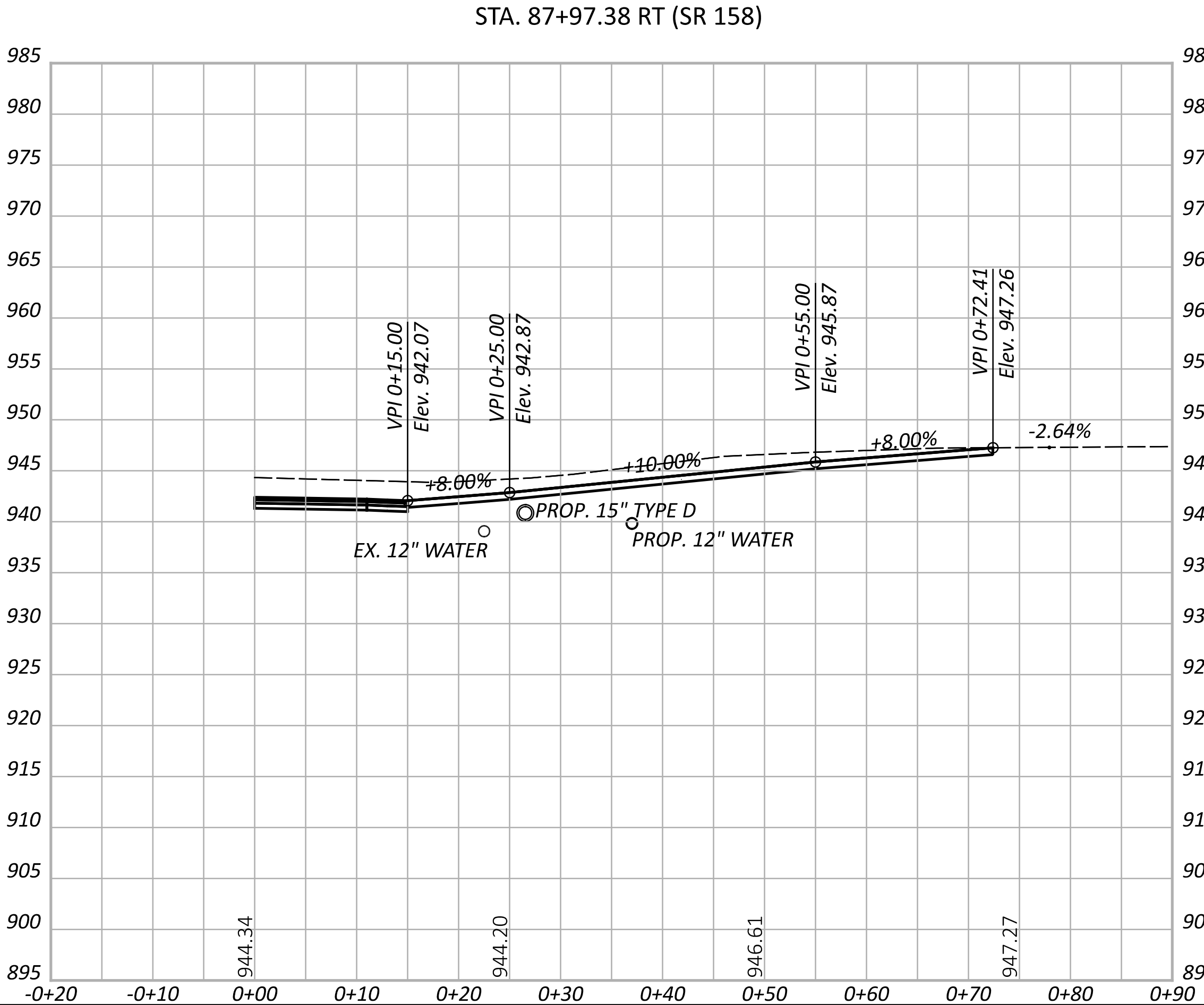
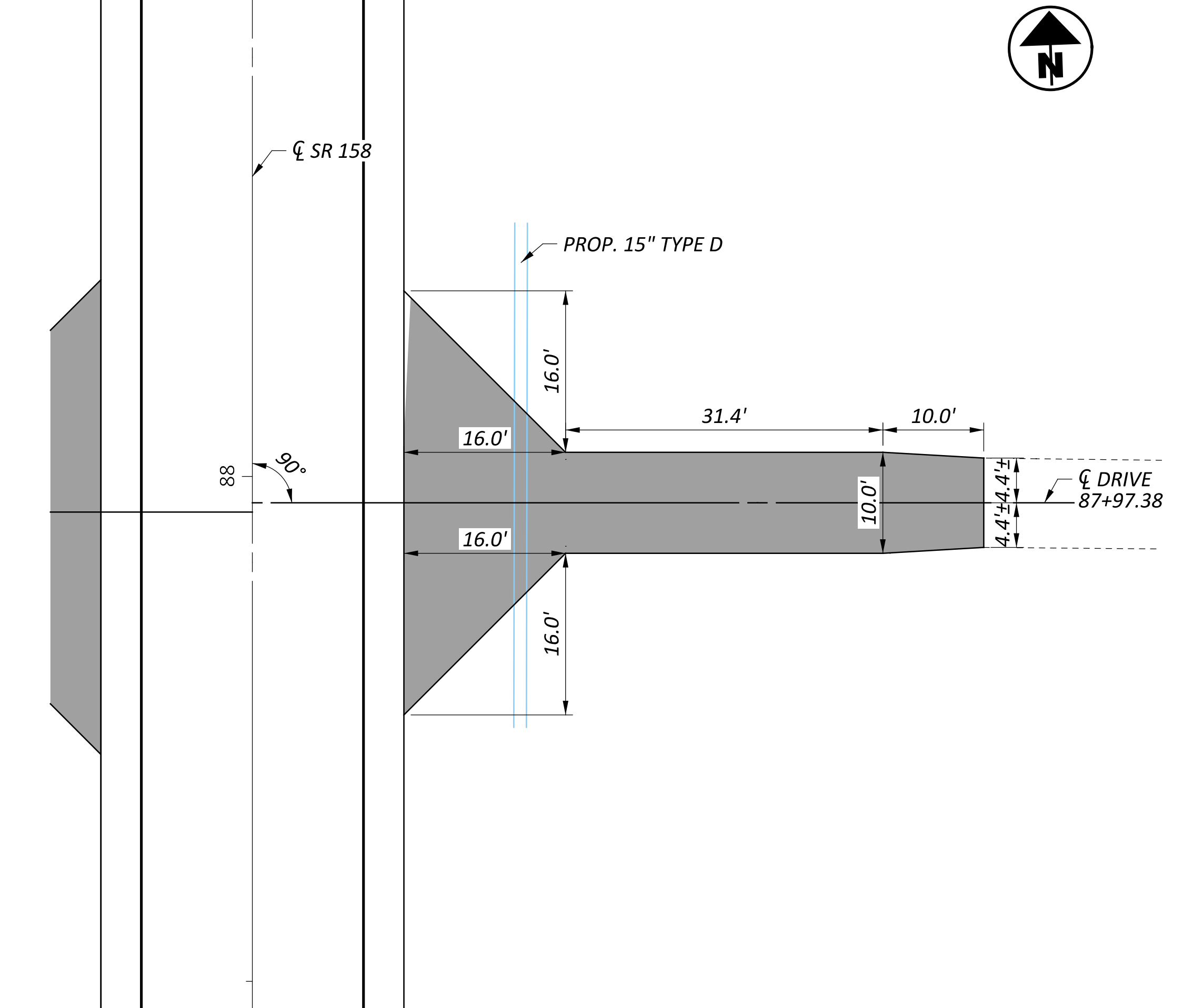
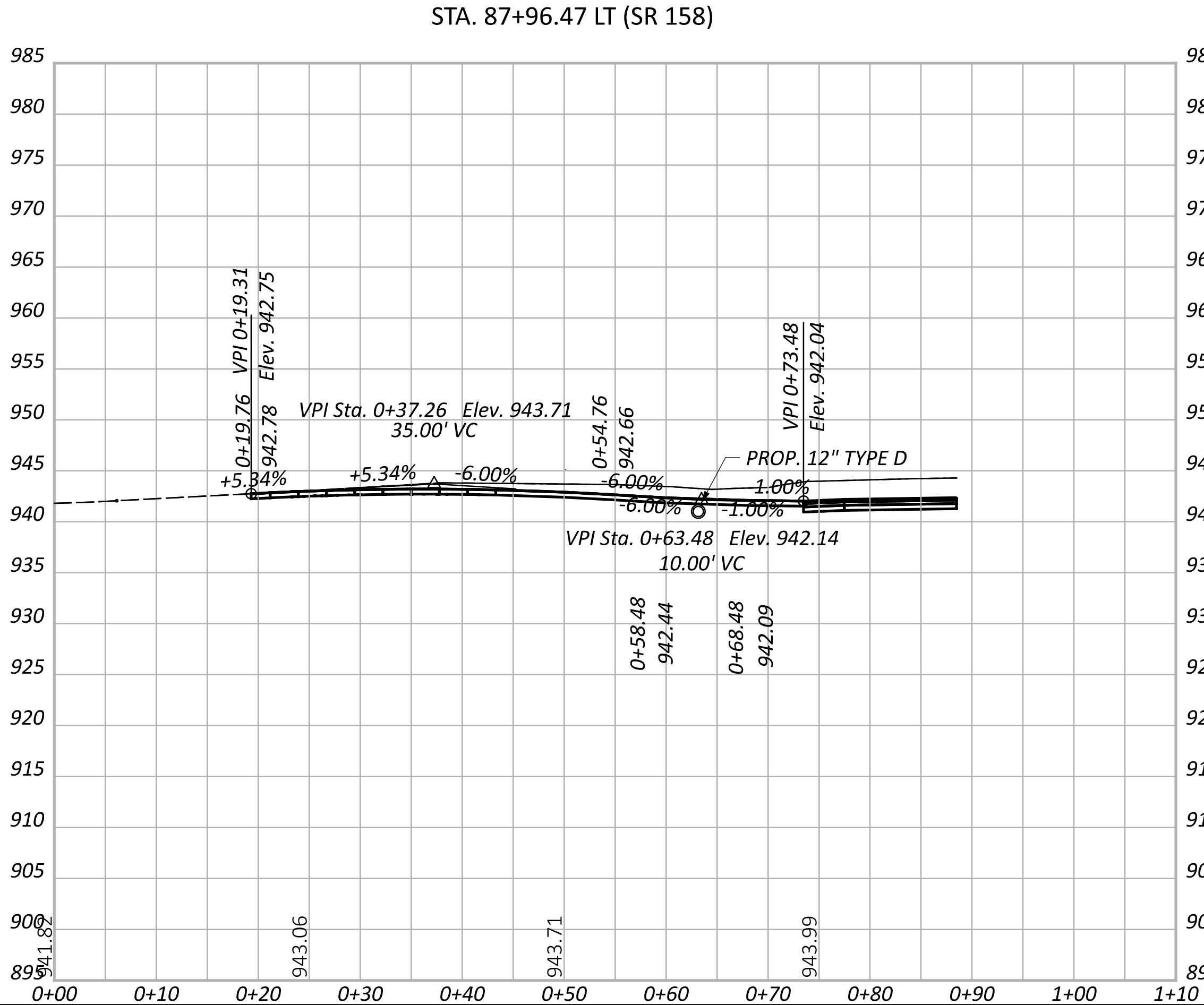
A horizontal scale bar with markings at 5, 10, and 20 feet. The bar is divided into segments: a black segment from 0 to 5, a white segment from 5 to 10, a black segment from 10 to 15, a white segment from 15 to 20, and a black segment from 20 to 25. The numbers 5, 10, and 20 are placed below the bar at their respective positions.

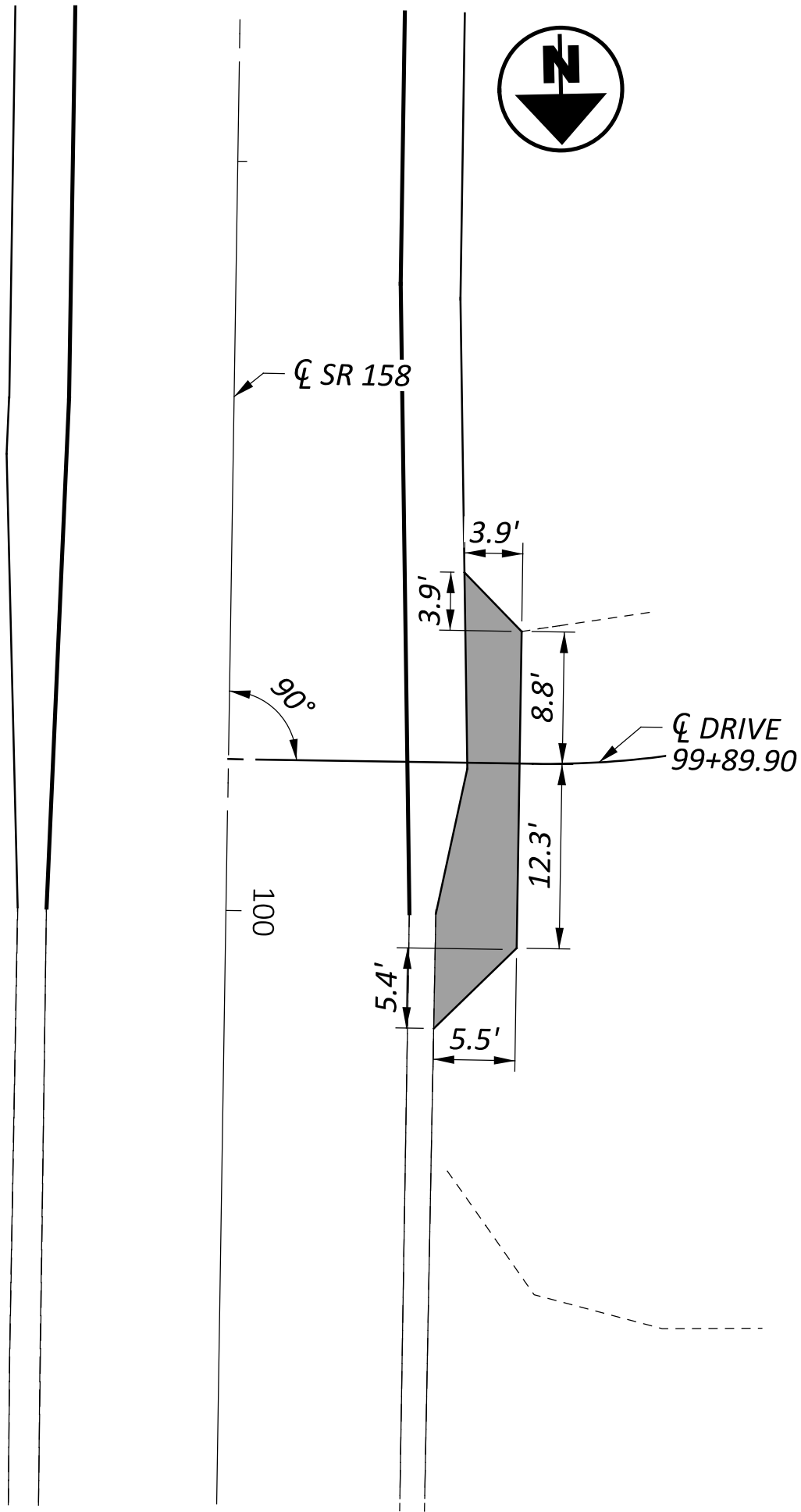
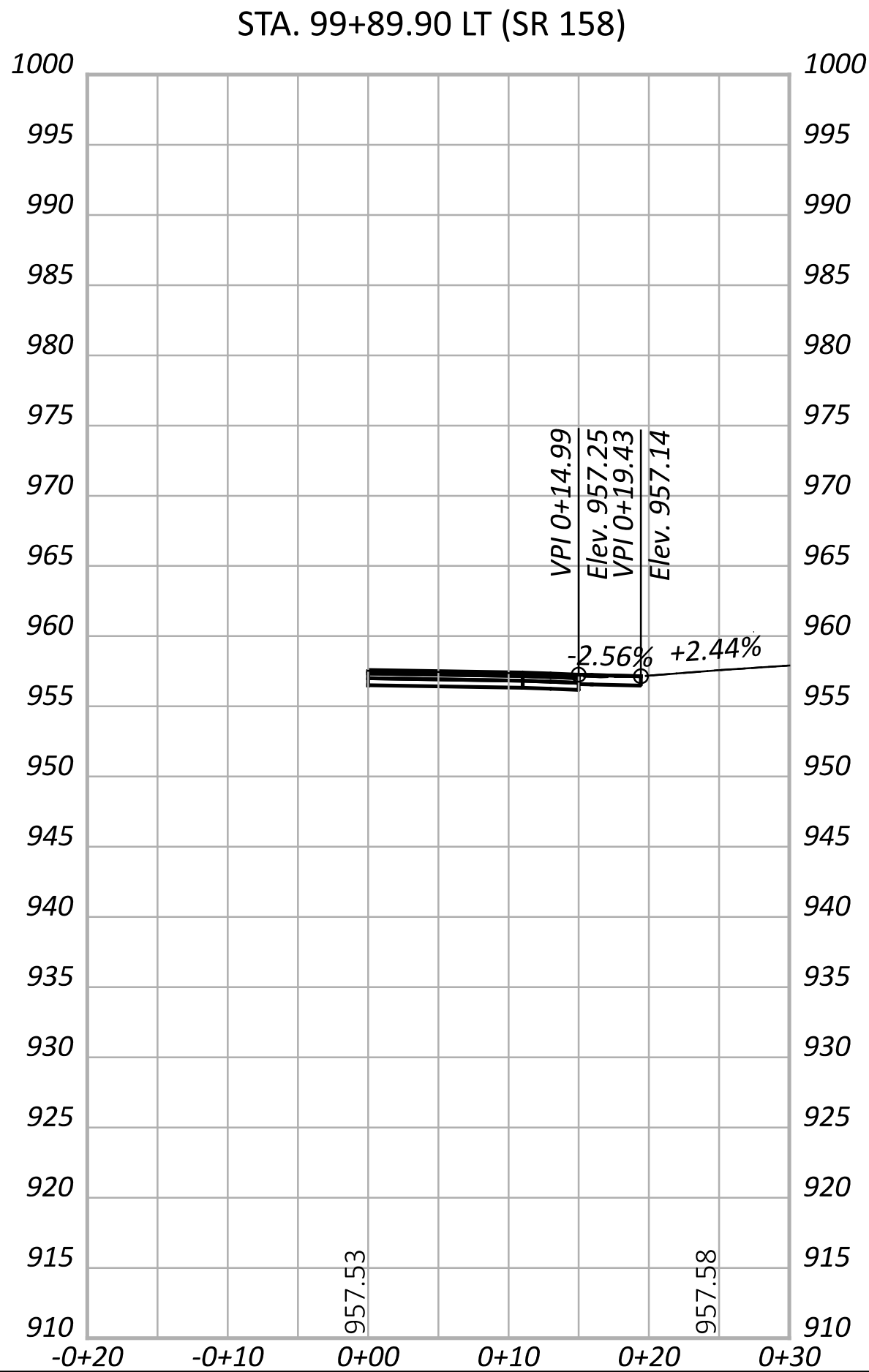
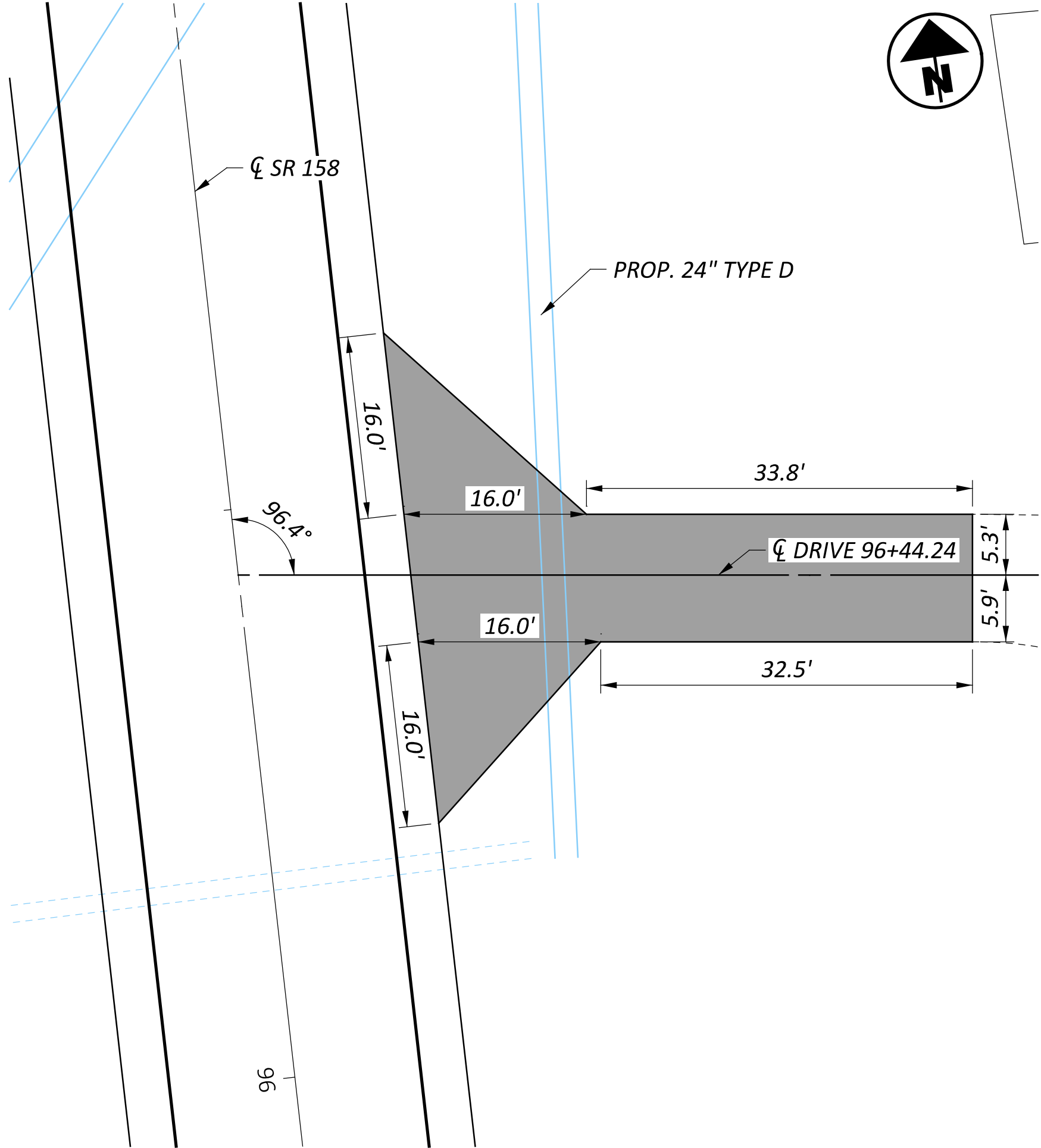
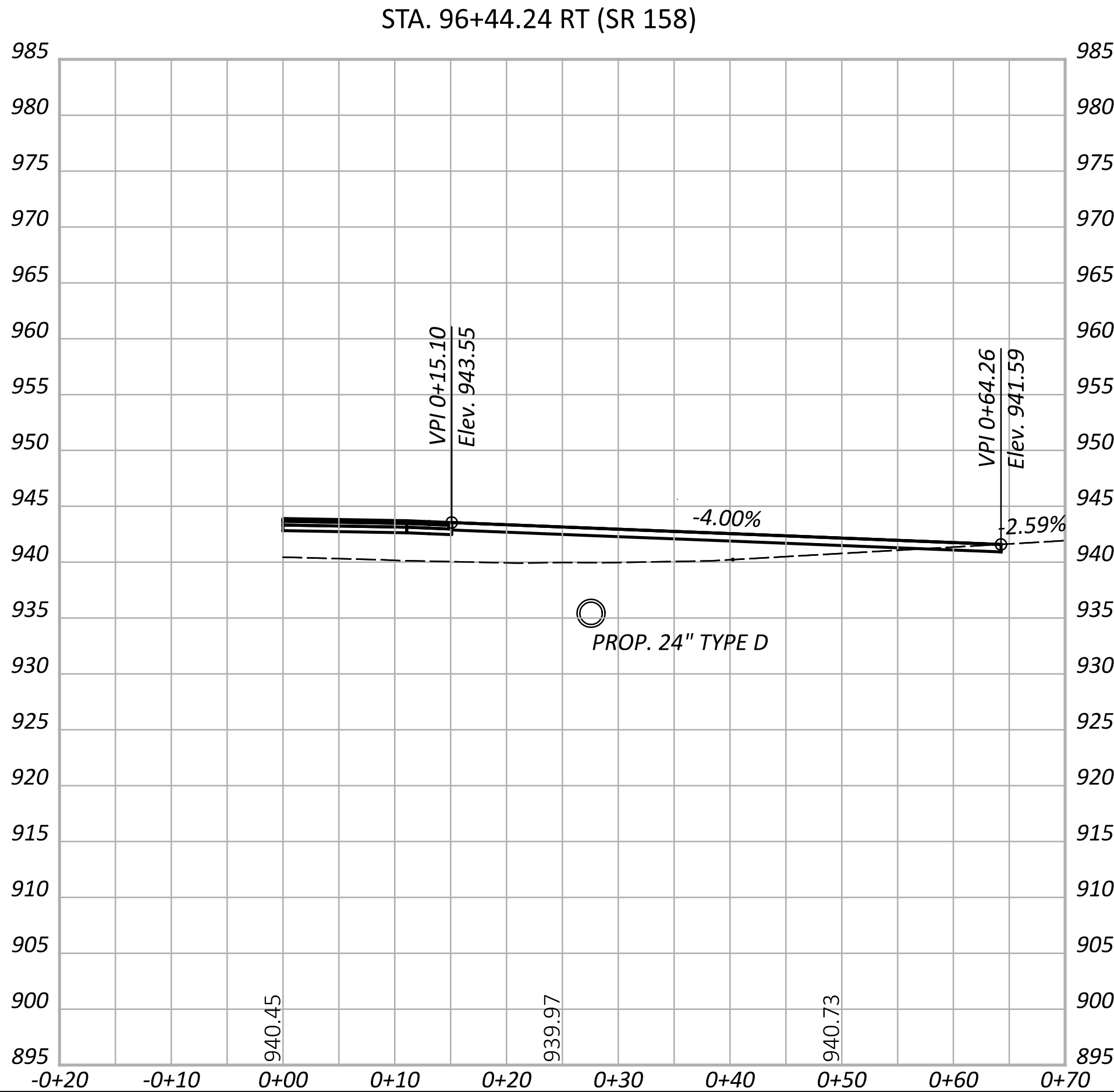
DESIGN AGENCY

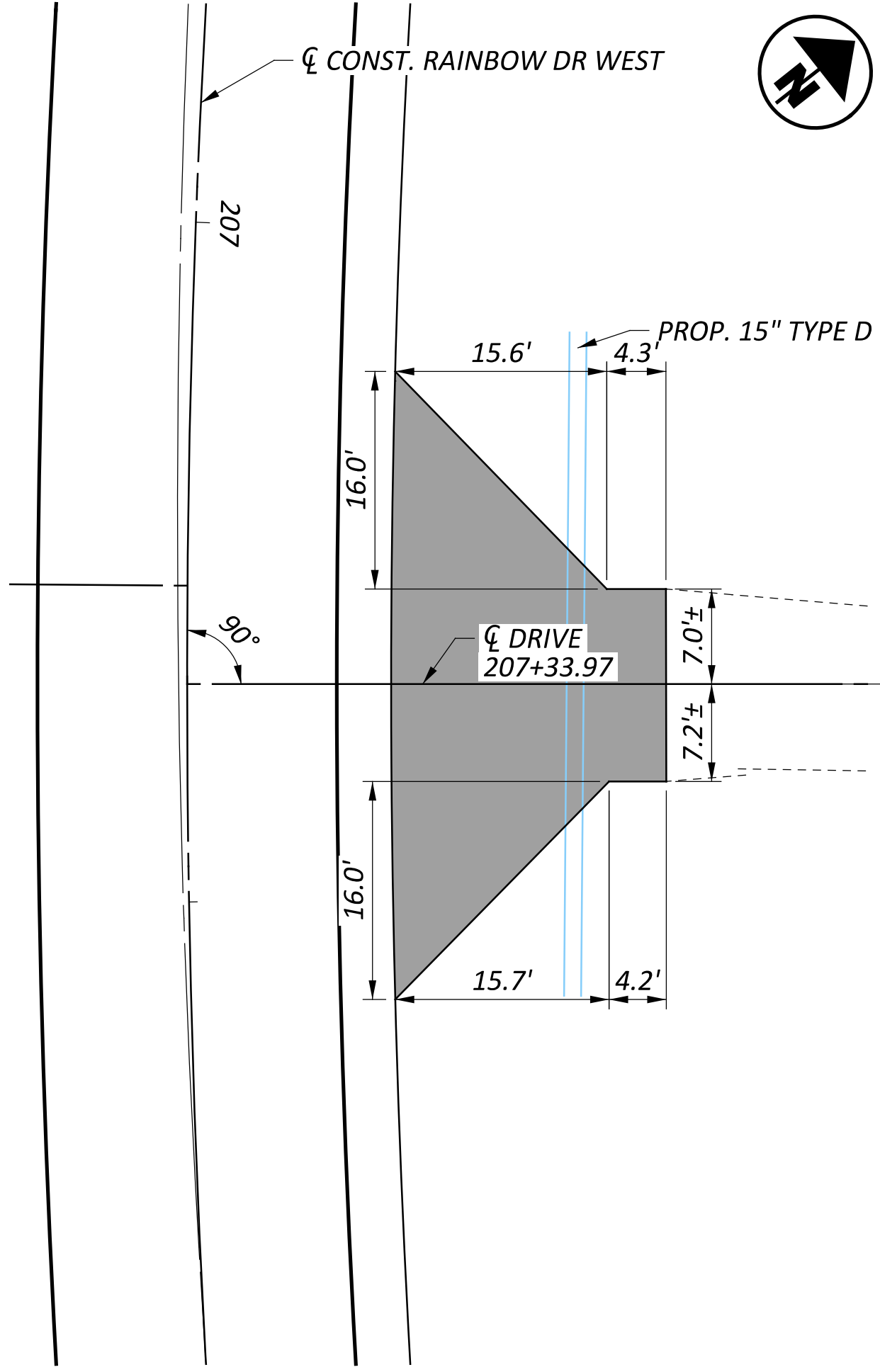
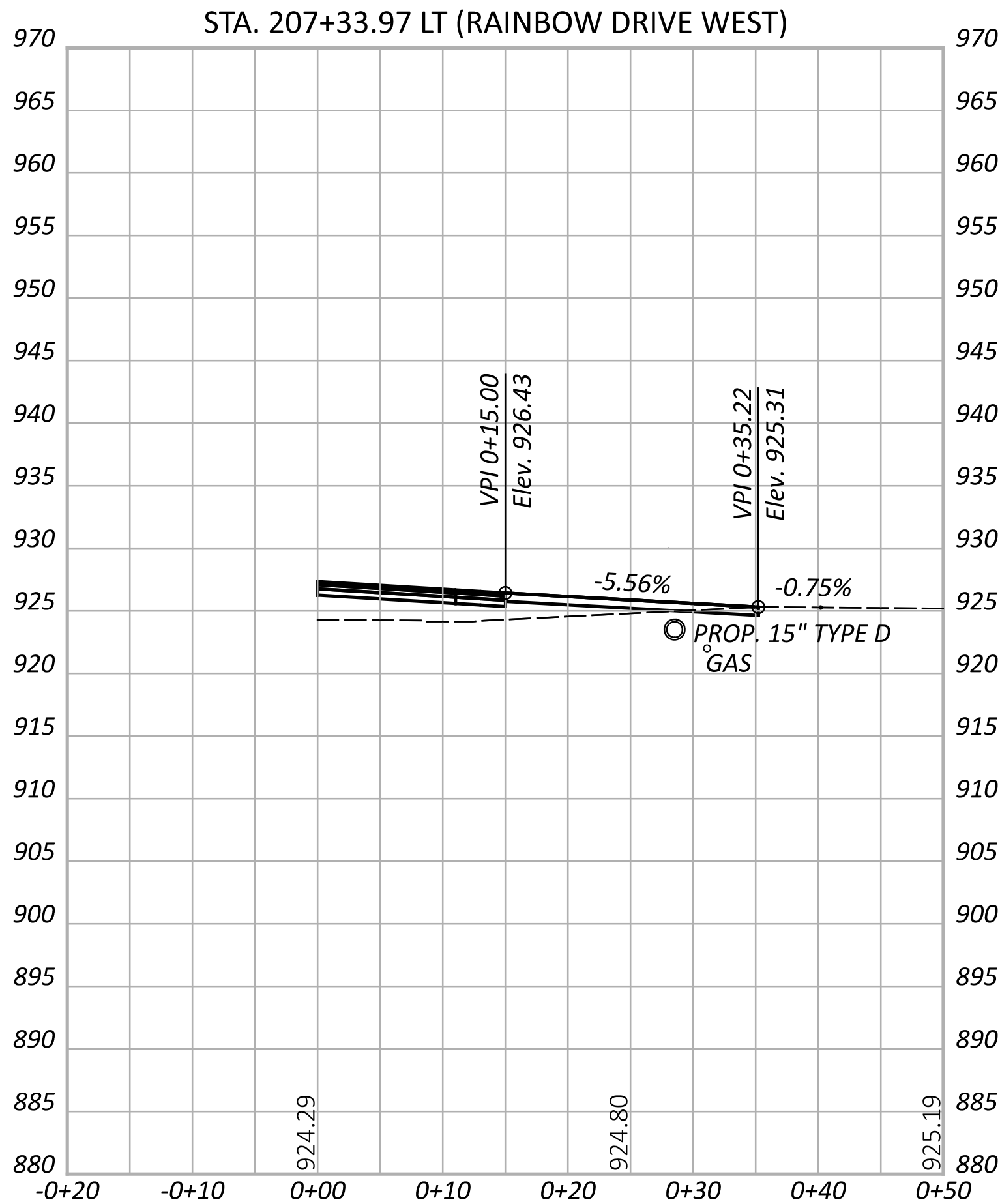
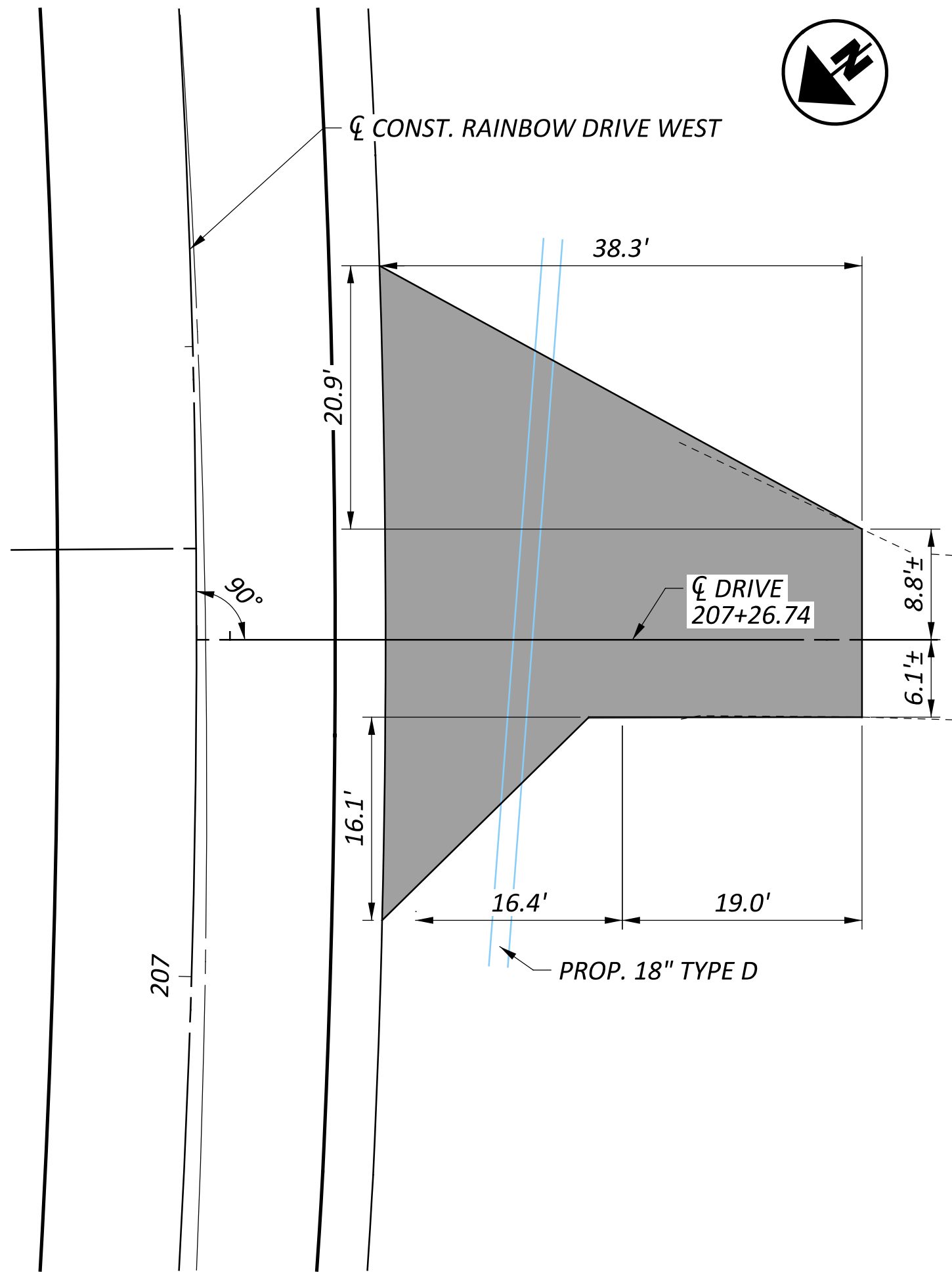
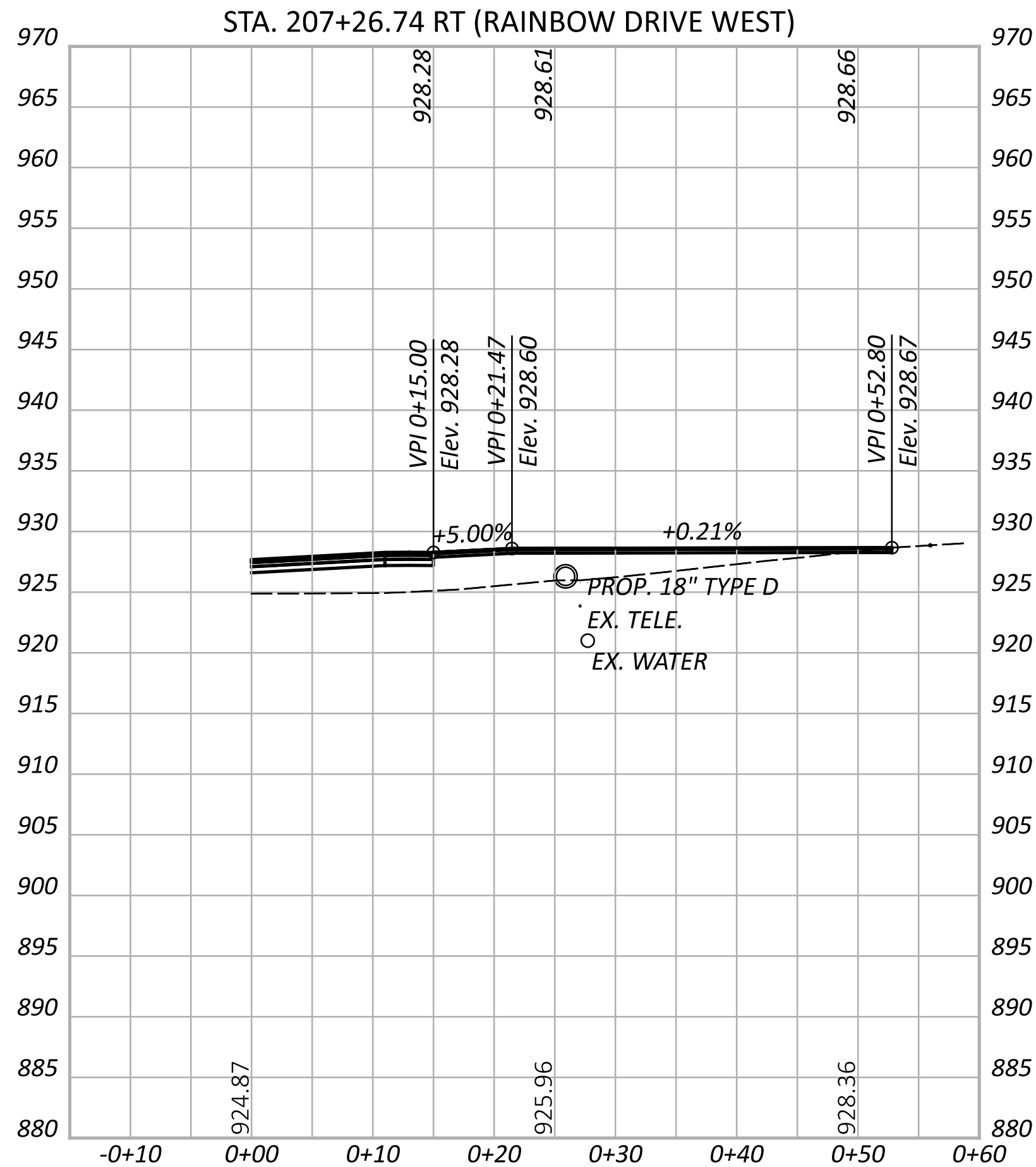
ARCADIS

7575 HUNTINGTON PARK DR, STE 130
COLUMBUS, OHIO 43235
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DESIGNER	
SRO	
REVIEWER	
JDH 12/01/25	
PROJECT ID	
120735	
SHEET	TOTAL
P.41	53

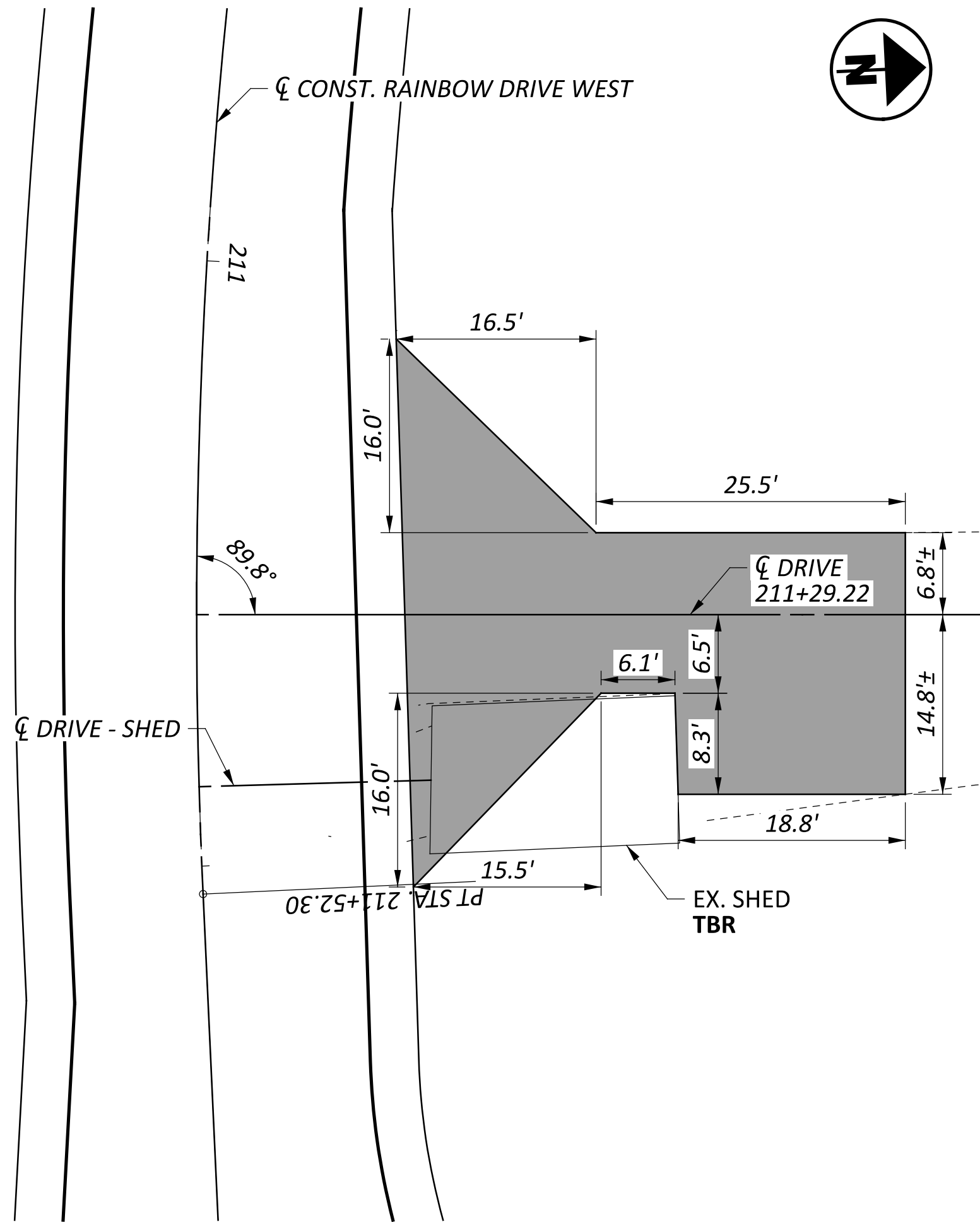
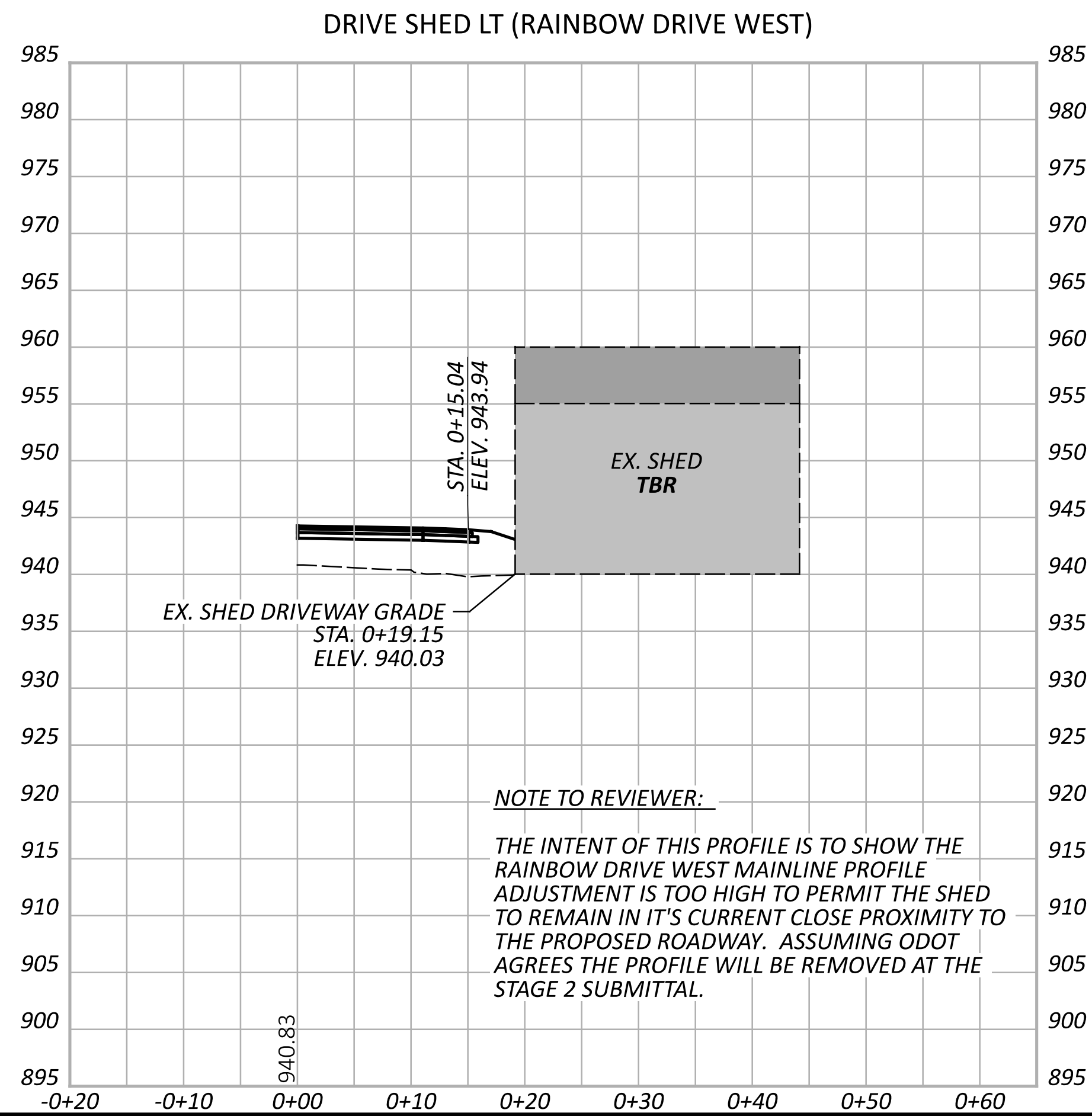
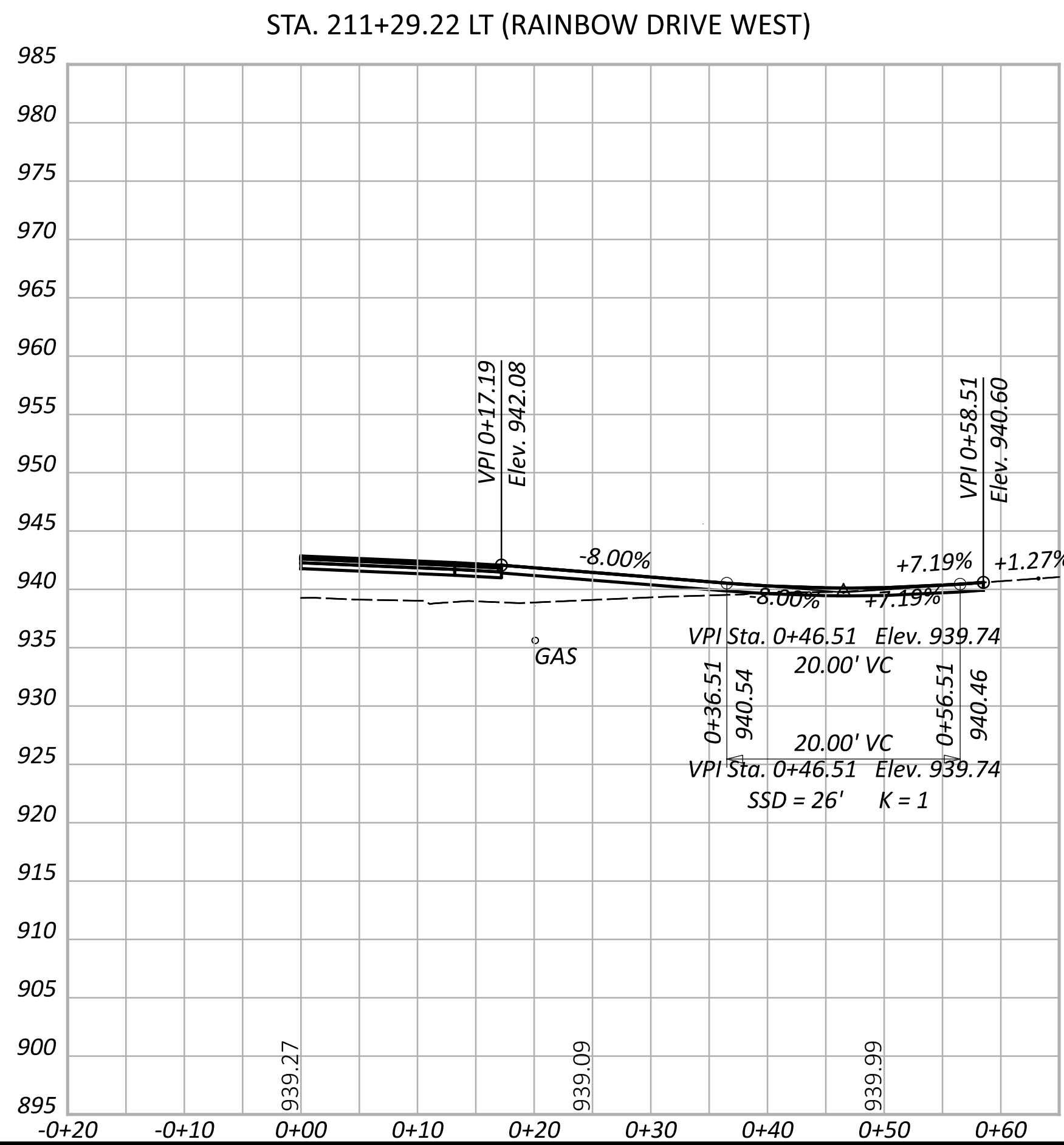






FAI-158-3.18 & RAINBOW DRIVE

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pw:\arcadis-us-pw.bentley.com\arcadis-us-01\Documents\01 Active Projects\30274218\400 CAD\120735\400-Engineering\Roadway\Basemaps\120735_BK201.dgn



DRIVE DETAIL
RAINBOW DRIVE WEST

DESIGN AGENCY

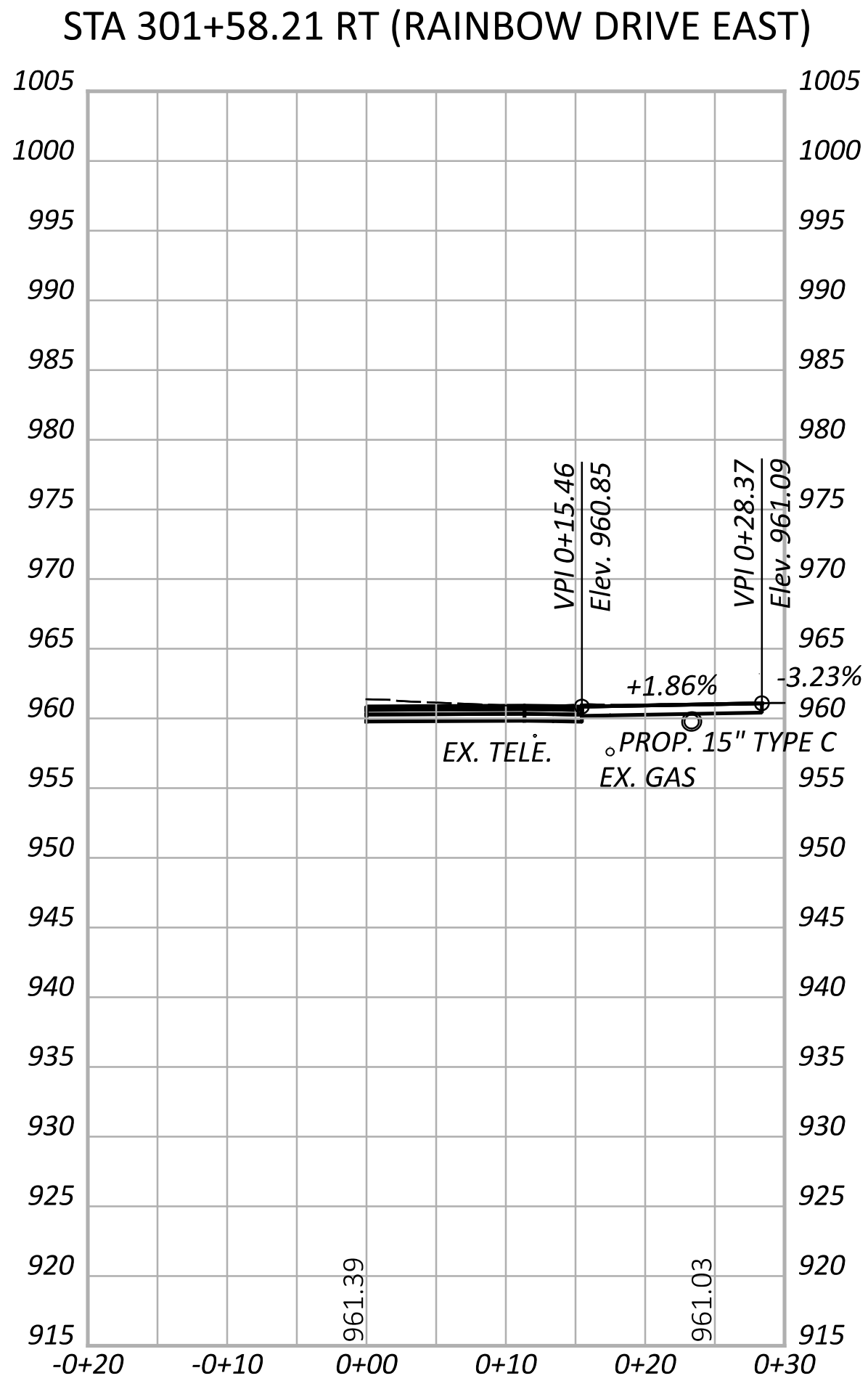
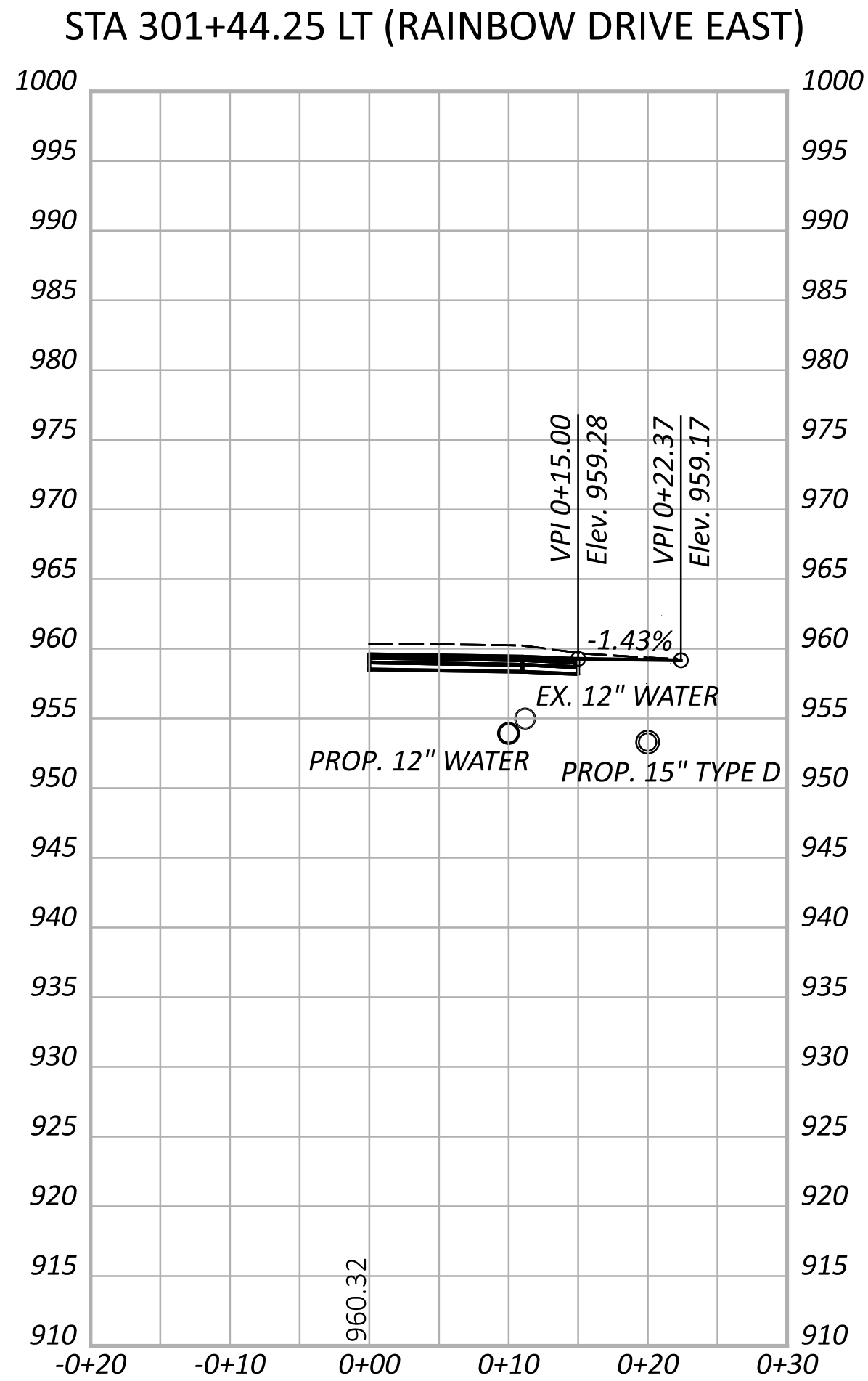
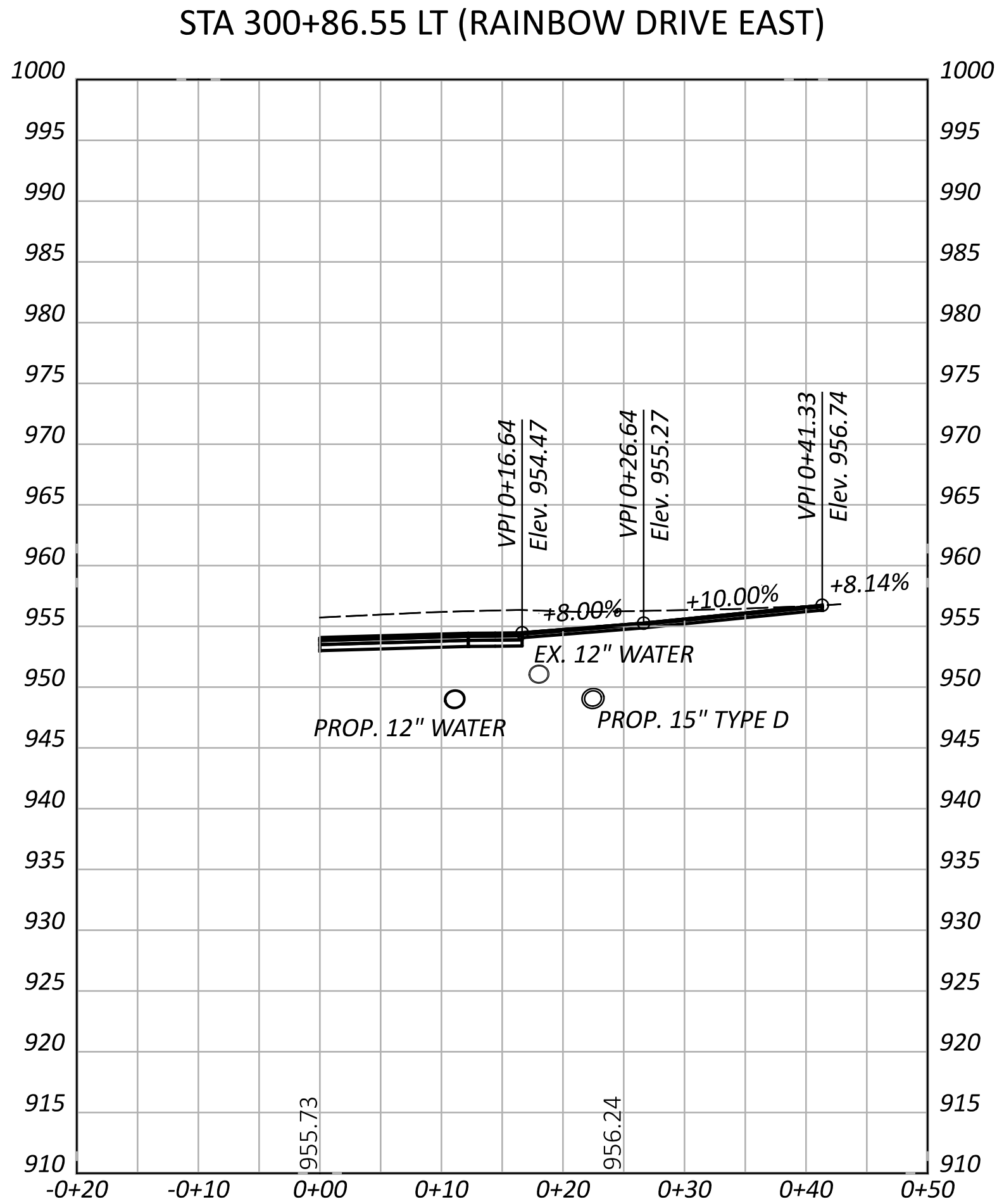
ARCADIS

7575 HUNTINGTON PARK DR., STE 130
COLUMBUS, OHIO 43235
(614) 985-9100

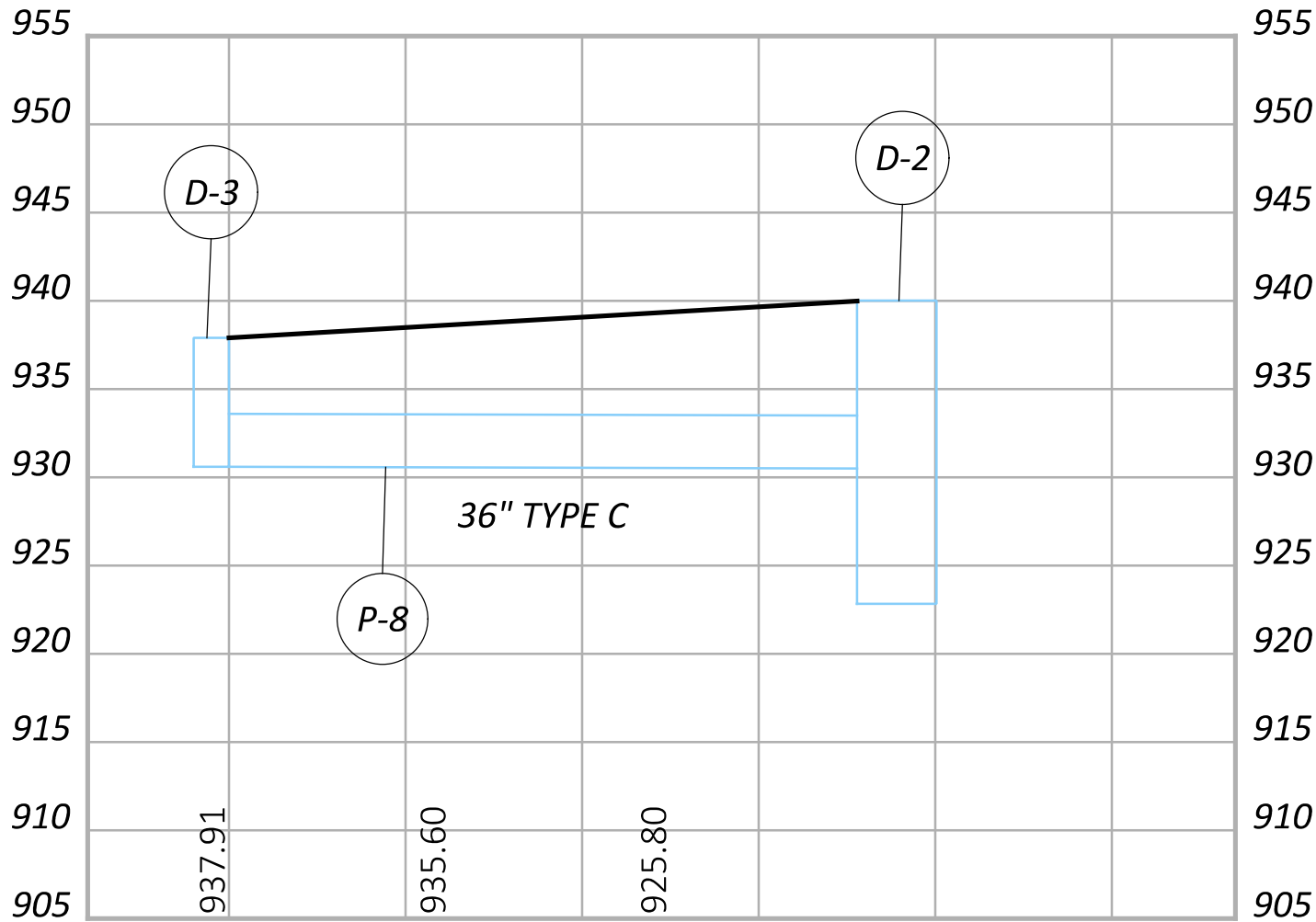
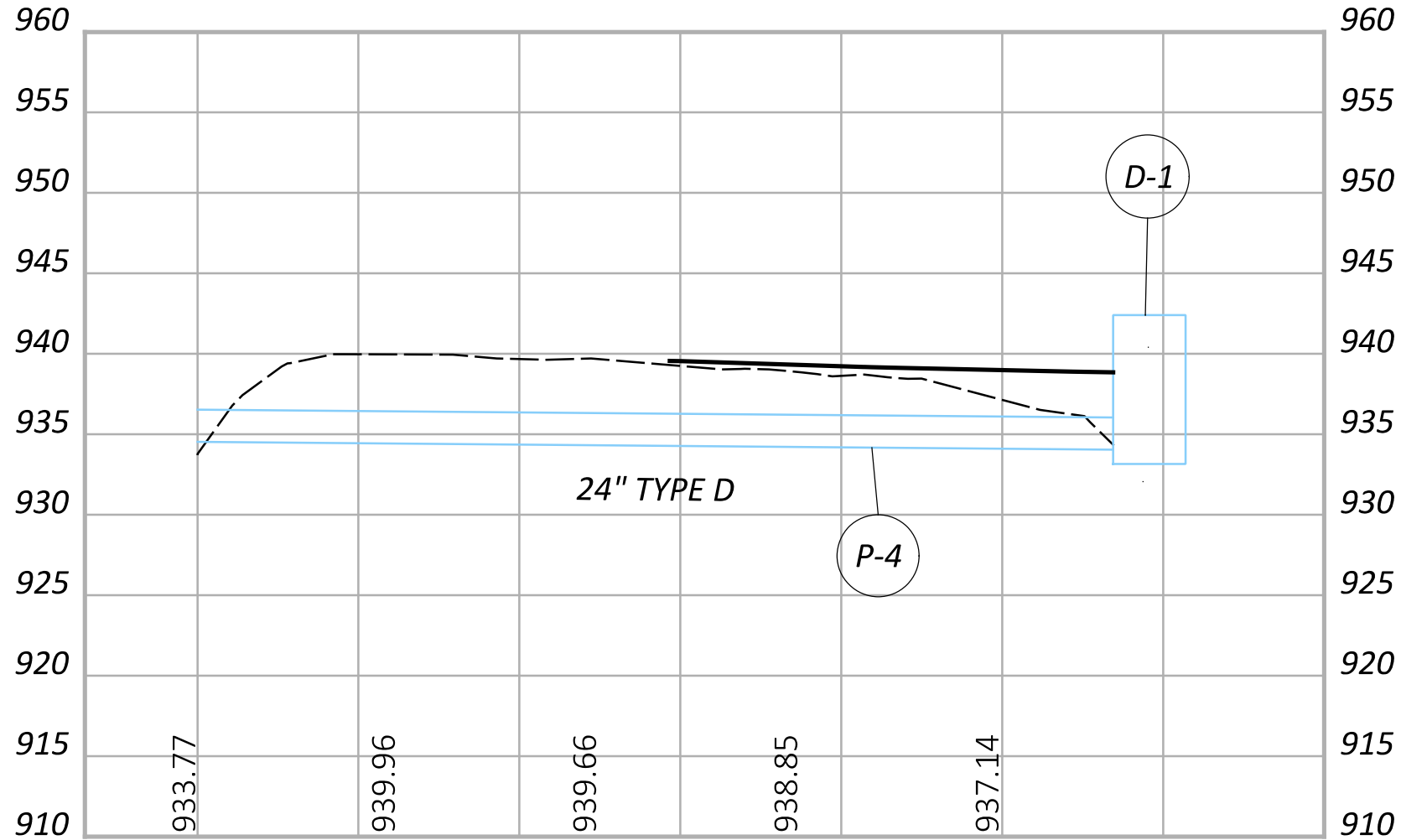
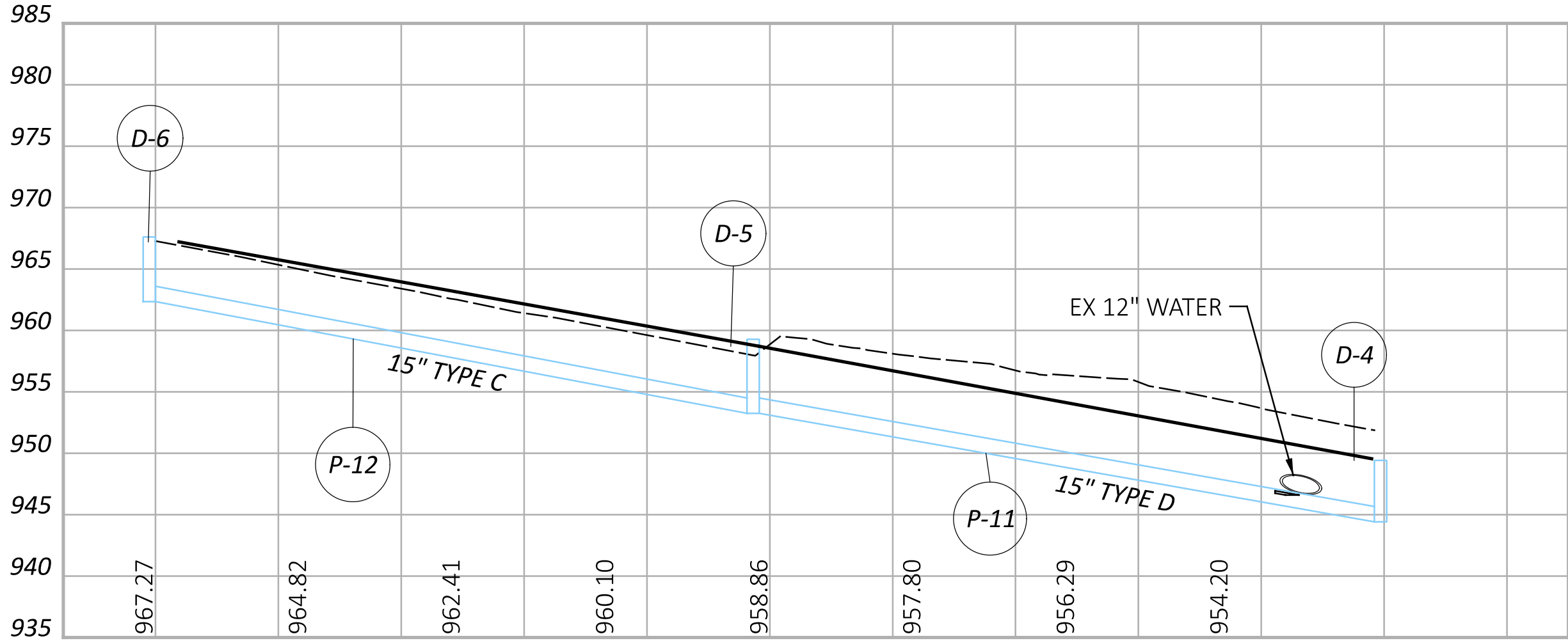
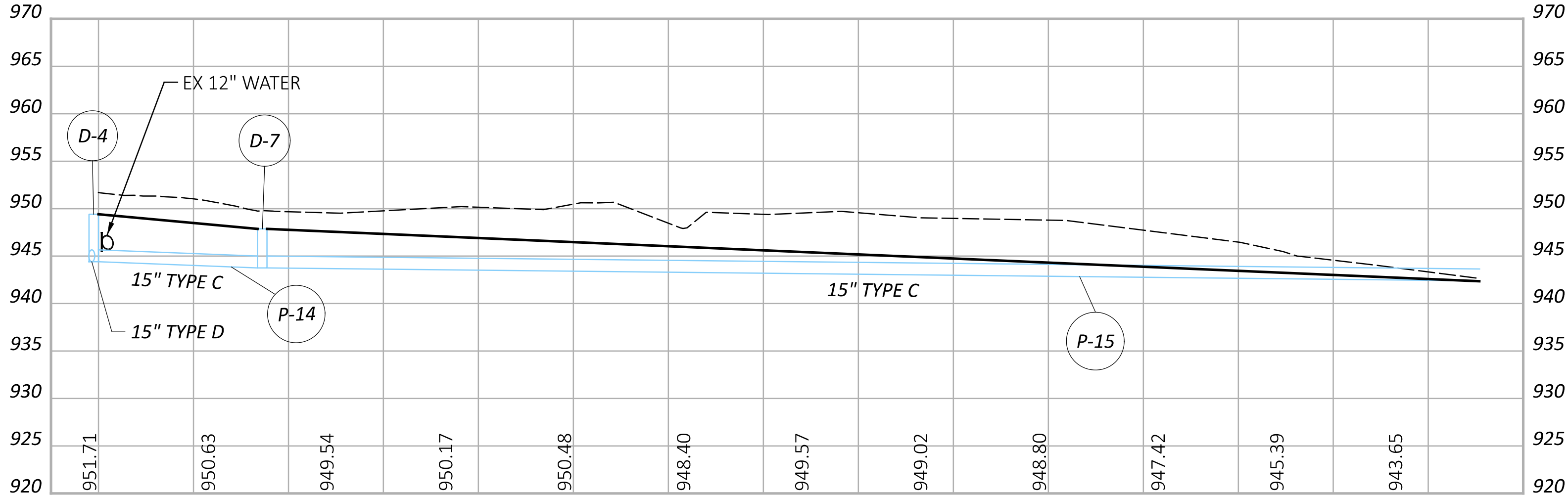
DESIGNER	
SRO	
REVIEWER	
JDH	12/01/2019
PROJECT ID	
120735	
SHEET	TOTAL
P.45	53

HORIZONTAL
SCALE IN FEET

A horizontal scale bar with alternating black and white segments. It has markings at 5, 10, and 20 feet.



DRIVE DETAIL
RAINBOW DRIVE EAST

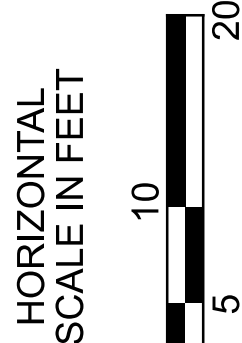


DRAINAGE PIPES DETAILS										
REF NO.	CFN	LENGTH	SIZE	TYPE	SLOPE	START STRUCT. REF NO.	START INVERT ELEV.	STOP STRUCT. REF NO.	STOP INVERT ELEV.	DISPOSITION
P-4	NA	117.13 ft	24"	TYPE D	0.41 %	NA	934.53 ft	D-1	934.05 ft	
P-8	NA	76.88 ft	36"	TYPE C	0.13 %	D-3	930.60 ft	D-2	930.50 ft	
P-11	NA	102.12 ft	15"	TYPE D	8.66 %	D-5	953.25 ft	D-4	944.41 ft	
P-12	NA	98.29 ft	15"	TYPE C	9.26 %	D-6	962.35 ft	D-5	953.25 ft	
P-14	NA	35.10 ft	15"	TYPE C	1.88 %	D-4	944.41 ft	D-7	943.75 ft	
P-15	NA	256.30 ft	15"	TYPE C	0.53 %	D-7	943.75 ft	NA	942.40 ft	

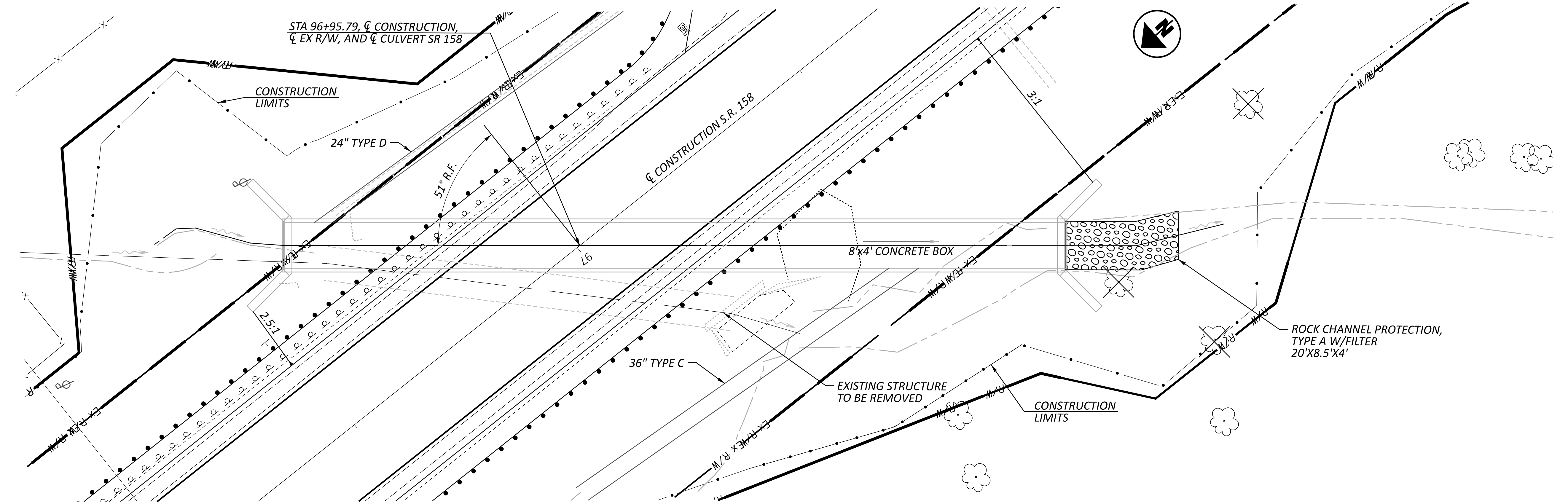
DRAINAGE STRUCTURES DETAILS										
REF NO.	BASELINE NAME	STATION	OFFSET	SIDE	TYPE	GRATE/RIM ELEV.	INVERT ELEV.	CONNECTED PIPES	DISPOSITION	
D-3	☐ CONST. & R/W SR 158	97+26.83	34.23 ft	LT	CB-2-4	937.91 ft	930.60 ft	(OUT) P-8 S 930.6		
D-4	☐ R/W RAINBOW DRIVE EAST	300+49.60	20.51 ft	LT	CB-2-2B	949.41 ft	944.41 ft	(IN) P-11 E 944.41, (OUT) P-14 NW 944.41		
D-5	☐ R/W RAINBOW DRIVE EAST	301+51.72	19.96 ft	LT	CB-2-2B	959.28 ft	953.25 ft	(IN) P-12 E 953.25, (OUT) P-11 W 953.25		
D-6	☐ R/W RAINBOW DRIVE EAST	302+50.00	19.45 ft	LT	CB-2-2B	967.61 ft	962.35 ft	(OUT) P-12 W 962.35		
D-7	☐ CONST. & R/W SR 158	91+44.56	29.37 ft	RT	CB-2-2B	947.87 ft	943.75 ft	(IN) P-14 SE 943.75, (OUT) P-15 N 943.75		

FOR D-1 AND D-2 STRUCTURE DETAILS, SEE SHEET P.48

STORM SEWER PROFILES







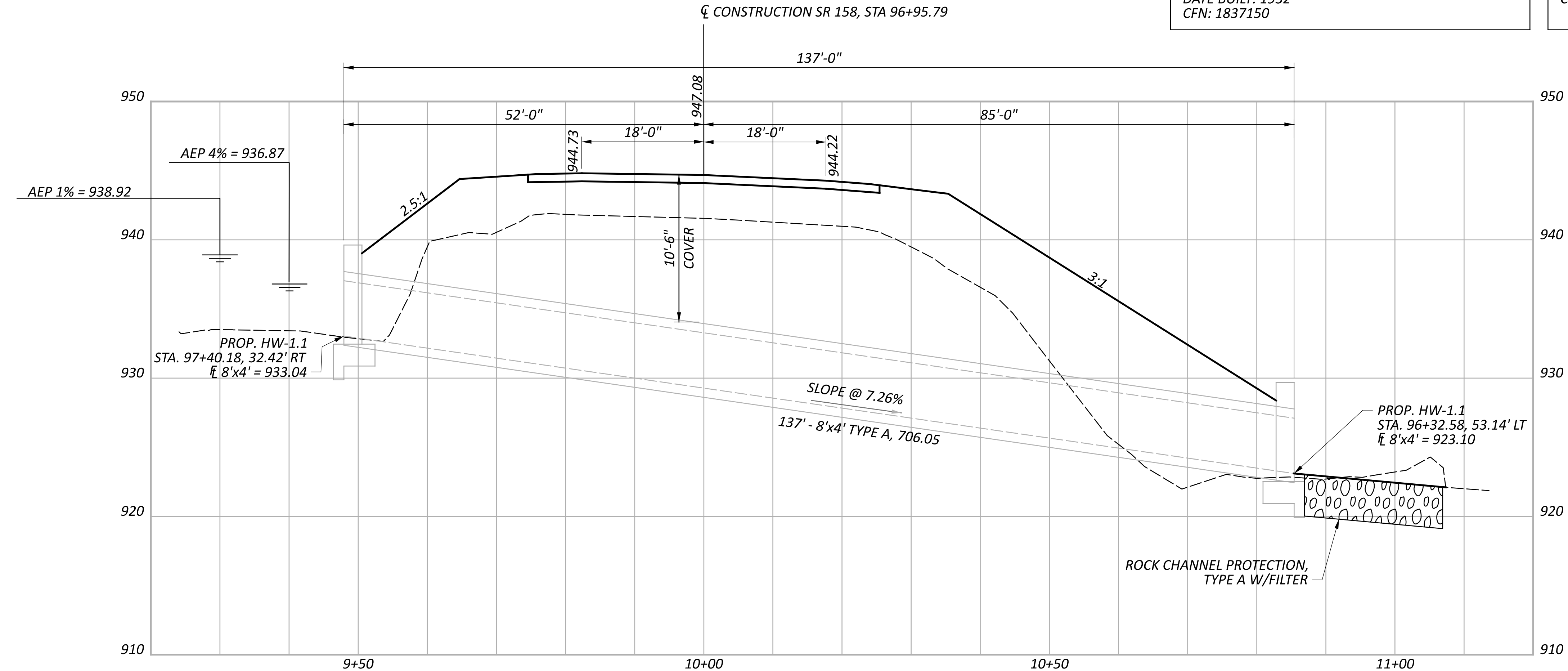
HYDRAULIC DATA

DRAINAGE AREA = 108.8 ACRES

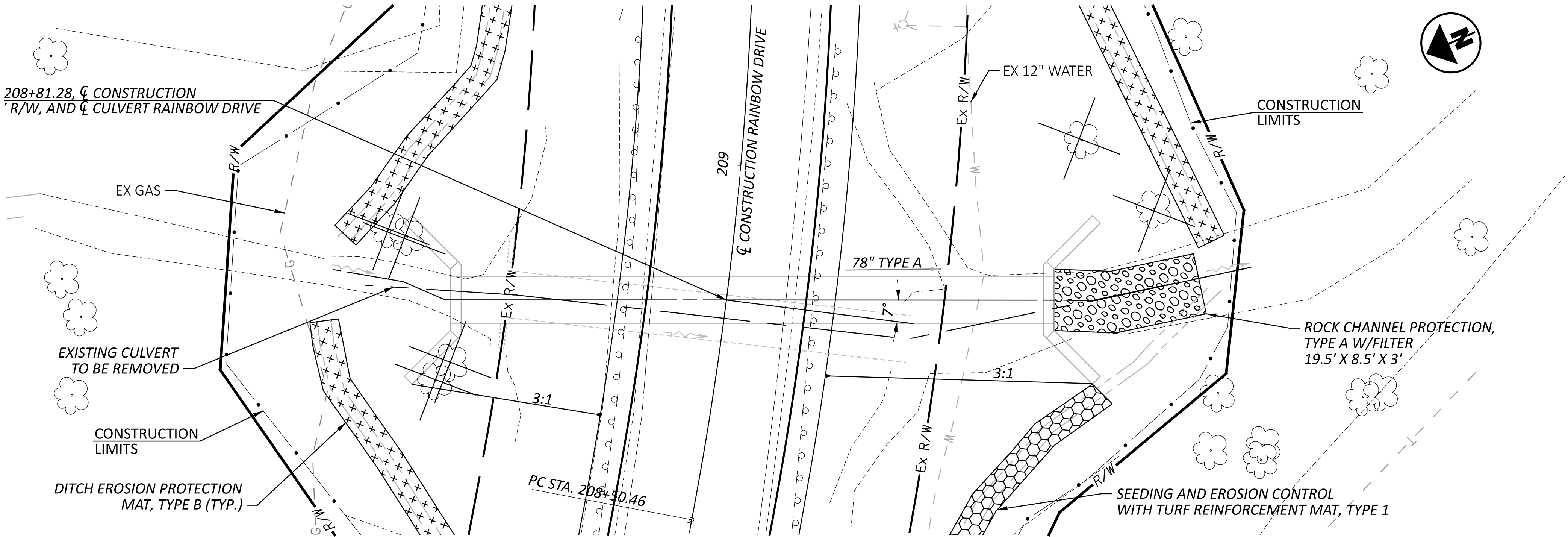
Q (4% AEP) = 160 CFS V (4% AEP) = 25.32 FT/S HW (4% AEP) = 936.87 FT
Q (1% AEP) = 252 CFS V (1% AEP) = 29.67 FT/S HW (1% AEP) = 938.92 FT

EXISTING STRUCTURE
TYPE: 6'x4' CONCRETE BOX SKEW: 44° R.F. ALIGNMENT: TANGENT DATE BUILT: 1932 CFN: 1837150

PROPOSED STRUCTURE
TYPE: 8'x4' CONCRETE BOX, 706.05 SKEW: 51° R.F. ALIGNMENT: TANGENT CFN:



CULVERT DETAIL
SR 158 - BOX OPTION



HYDRAULIC DATA

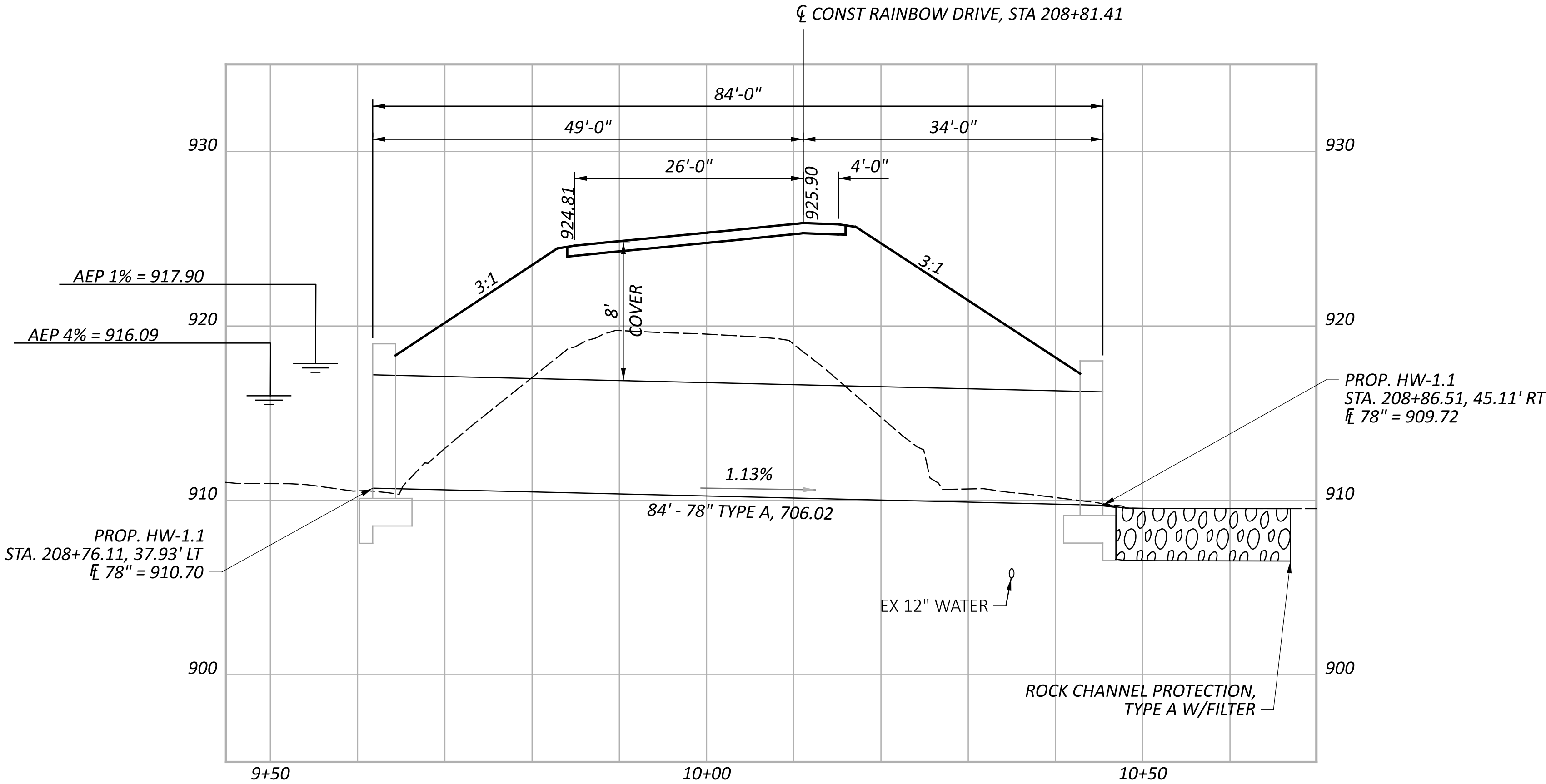
DRAINAGE AREA = 153.6 ACRES

Q (4% AEP) = 197 CFS
Q (1% AEP) = 309 CFS

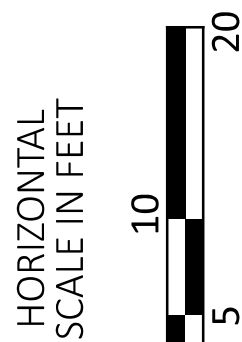
V (4% AEP) = 16.28 FT/S
V (1% AEP) = 18.31 FT/S

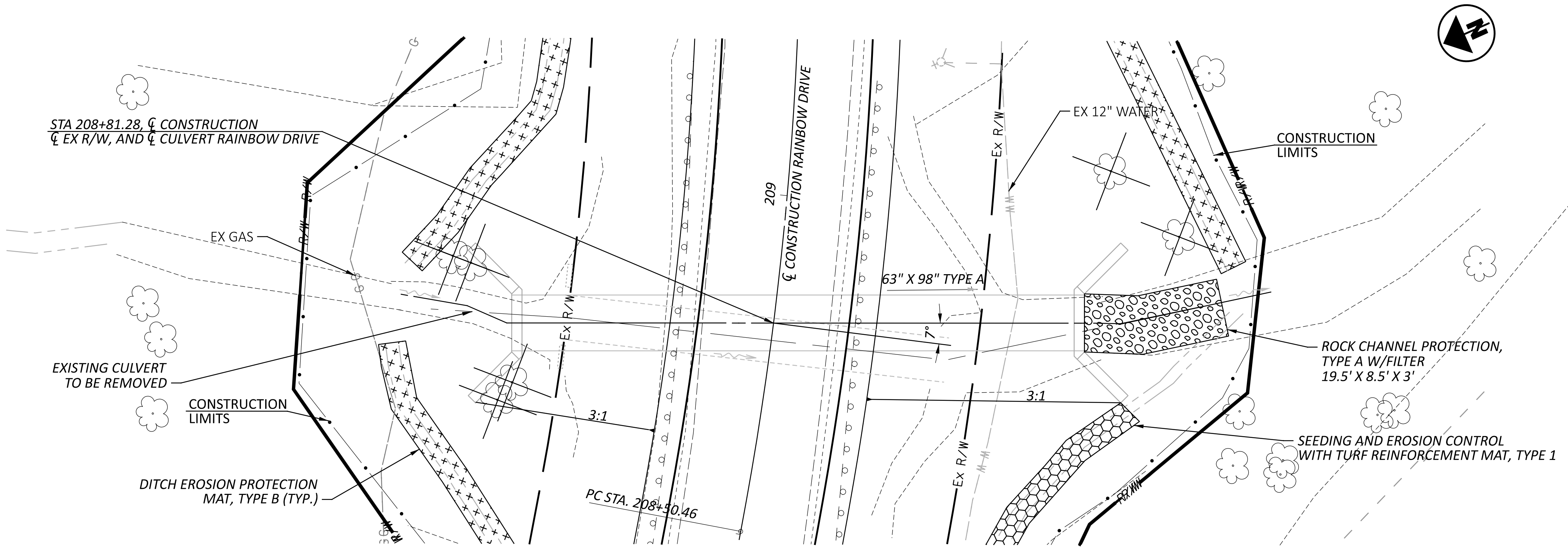
HW (4% AEP) = 916.09 FT
HW (1% AEP) = 917.90 FT

EXISTING STRUCTURE	PROPOSED STRUCTURE
TYPE: 78" RCP SKEW: 1° R.F. ALIGNMENT: TANGENT CFN: N/A	TYPE: 78" CONDUIT, TYPE A 706.02 SKEW: 7° R.F. ALIGNMENT: TANGENT CFN: N/A



CULVERT DETAIL
RAINBOW DRIVE - CIRCULAR OPTION





HYDRAULIC DATA

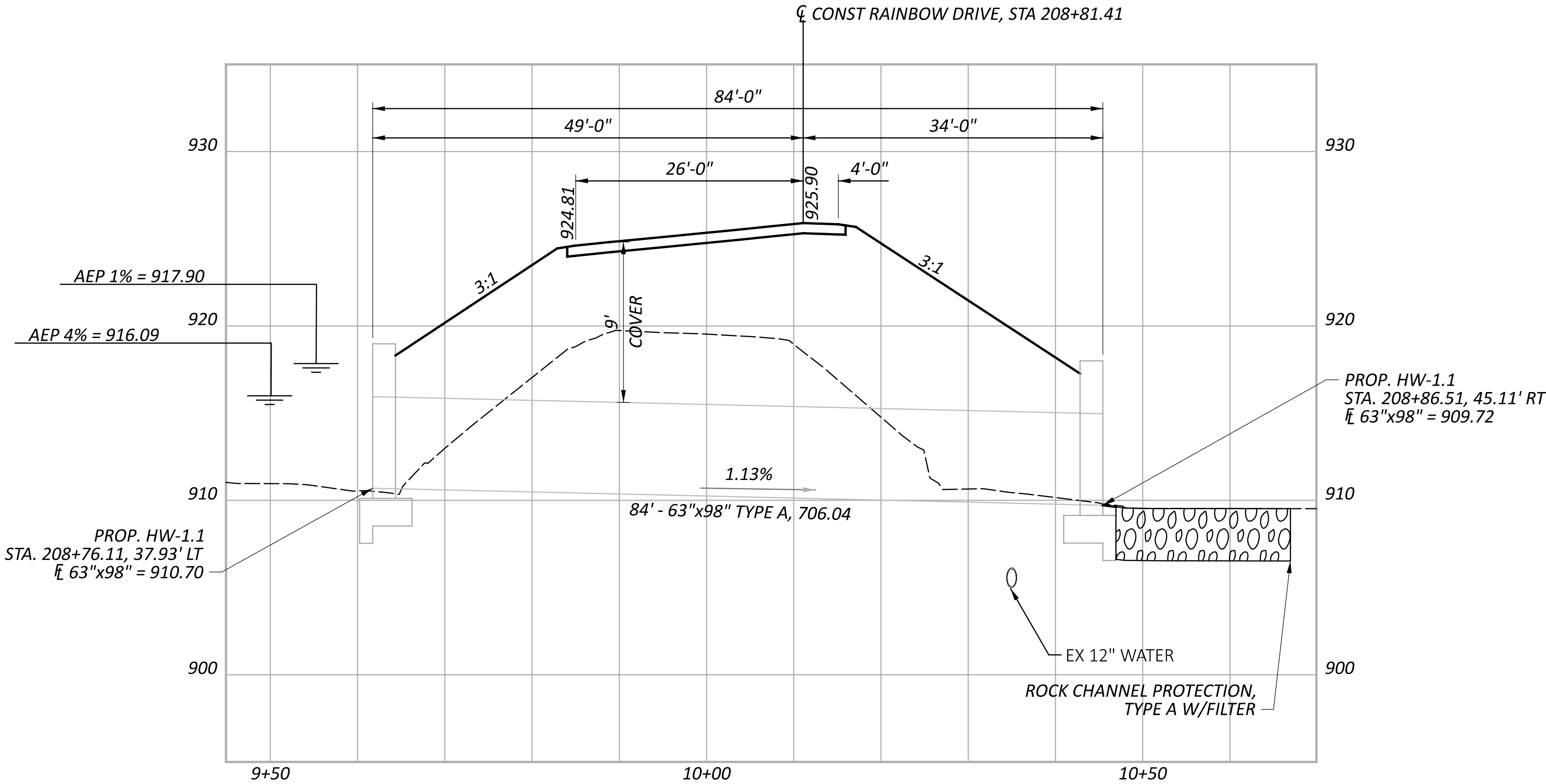
DRAINAGE AREA = 153.6 ACRES

Q (4% AEP) = 197 CFS
Q (1% AEP) = 309 CFS

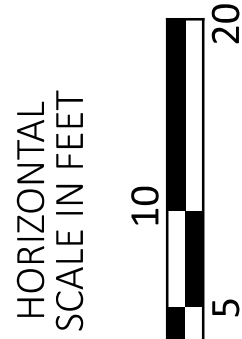
V (4% AEP) = 15.70 FT/S
V (1% AEP) = 17.96 FT/S

HW (4% AEP) = 915.17 FT
HW (1% AEP) = 916.83 FT

EXISTING STRUCTURE	PROPOSED STRUCTURE
TYPE: 78" RCP SKEW: 1° R.F. ALIGNMENT: TANGENT CFN: N/A	TYPE: 63"X98" CONDUIT, TYPE A 706.04 SKEW: 7° R.F. ALIGNMENT: TANGENT CFN: N/A



CULVERT DETAIL
RAINBOW DRIVE - ELLIPTICAL OPTION



STAGE 1 SCOPE ITEM - DESCRIPTION OF CONCEPTUAL PROPOSED WATER WORK

INTRODUCTION:
LANCASTER WATER COMPANY WAS CONTACTED AND THEY PROVIDED EXISTING CADD FILES OF THEIR WATER LINE INFRASTRUCTURE WITHIN THE PROJECT LIMITS. DUE TO THE PROPOSED PROFILE GRADE IMPROVEMENTS REQUIRED OF THIS PROJECT, LANCASTER WATER FACILITIES WILL BE IMPACTED AS GENERALLY DESCRIBED BELOW.

SR 158 WATER WORK:
REFERRING TO PLAN SHEETS 9-10, SR 158 FROM THE BEGIN PROJECT LIMIT TO RAINBOW DRIVE INTERSECTION HAS AN EXISTING 12" WATER LINE APPROXIMATELY 22.5 FEET RIGHT OF C/L OF CONSTRUCTION. THE VERTICAL IMPROVEMENTS PROPOSED WITH THIS PROJECT LOWERS THE PROPOSED PROFILE GRADE WHICH IN TURN REDUCES THE DESIRED 4.5 FEET OF COVER OVER THE EXISTING 12" WATER LINE BETWEEN STA 87+50 TO THE RAINBOW DRIVE INTERSECTION. AS SHOWN ON THE PLAN SHEETS 9-10 AND THE ACCOMPANYING CROSS SECTION SHEETS, THE PROPOSED LOCATION TO RELOCATE AND PROVIDE 4.5 FEET OF COVER IS APPROXIMATELY 37 FEET RIGHT OF C/L OF CONSTRUCTION. THE ESTIMATED LENGTH OF RELOCATION IS 341 FEET.

RAINBOW DRIVE WEST WATER WORK:
REFERRING TO PLAN SHEETS 13-14, RAINBOW DRIVE WEST FROM THE BEGIN PROJECT LIMIT TO THE SR 158 INTERSECTION HAS AN EXISTING 12" WATER LINE APPROXIMATELY 25 FEET RIGHT OF THE C/L OF CONSTRUCTION. THE PROPOSED VERTICAL IMPROVEMENTS FOR RAINBOW DRIVE WEST RAISE THE EXISTING ROADWAY GRADE AND THUS WILL NOT REDUCE COVER, WITH THE EXCEPTION BEING NEAR THE SR 158 INTERSECTION WHERE THE SR 158 PROFILE IS BEING LOWERED. DUE TO THE LOWERING OF SR 158 AT THE INTERSECTION WITH RAINBOW DRIVE, IT'S ANTICIPATED THAT APPROXIMATELY 100 FEET OF EXISTING 12" WATER LINE WILL REQUIRE LOWERING FROM STA. 211+75 TO THE TIE-IN LOCATION WITH THE PROPOSED RELOCATED SR 158 12" WATER LINE. THE ESTIMATED LENGTH OF RELOCATION IS 100 FEET.

RAINBOW DRIVE EAST WATER WORK:
REFERRING TO PLAN SHEETS 15, RAINBOW DRIVE EAST FROM THE END PROJECT LIMIT TO THE SR 158 INTERSECTION HAS AN EXISTING 16" WATER LINE APPROXIMATELY 16 FEET LEFT OF THE C/L OF CONSTRUCTION. THE PROPOSED VERTICAL IMPROVEMENTS FOR RAINBOW DRIVE EAST LOWER THE EXISTING ROADWAY GRADE AND WILL LIKEWISE REDUCE COVER OVER THE EXISTING 16" WATER LINE. AS SHOWN ON THE PLAN SHEET 15 AND THE ACCOMPANYING CROSS SECTION SHEETS, THE PROPOSED LOCATION TO PROVIDE THE DESIRED 4.5 FEET OF COVER IS APPROXIMATELY 10 FEET LEFT OF THE C/L OF CONSTRUCTION. THE ESTIMATED LENGTH OF RELOCATION IS 163 FEET.

STAGE 1 UTILITY COORDINATION:
PENDING APPROVAL BY ODOT DISTRICT 5, ARCADIS PROPOSES TO SEND THE STAGE 1 PLAN SET SHOWING THE CONCEPTUAL WATER LINE RELOCATIONS TO LANCASTER WATER FOR REVIEW AND COMMENT.

WATERWORKS NOTES



7575 HUNTING PARK DRIVE, STE 100
COLLEGE PARK, MD 20740
(410) 326-4170
www.arcadis.com

DESIGN AGENCY

DESIGNER

SRO

REVIEWER

JH 12-01-25

PROJECT ID

120735

SHEET

P.53

TOTAL

53