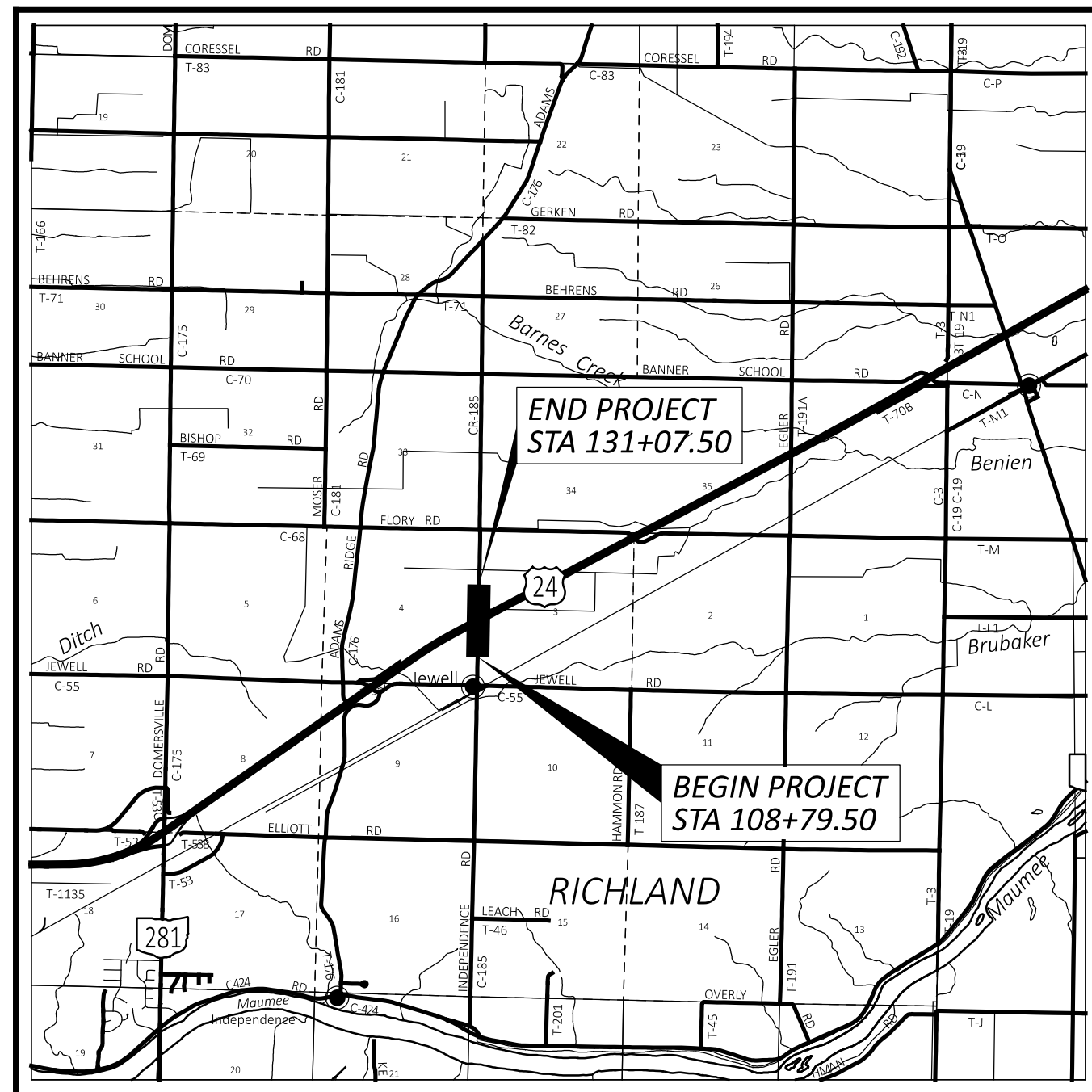


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## DEF-24-11.35

RICHLAND TOWNSHIP  
DEFIANCE COUNTY



**LOCATION MAP**

LATITUDE: 41°19'55" LONGITUDE: 84°17'05"

SCALE IN MILES



PORTION TO BE IMPROVED	_____
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	=====
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION	DEF-US 24	DEF-CR 185
CURRENT ADT (2026)	23,500	260
DESIGN YEAR ADT (2046)	36,000	280
DESIGN HOURLY VOLUME (2046)	3,600	28
DIRECTIONAL DISTRIBUTION	55%	55%
TRUCKS (24 HOUR B&C)	43%	10%
DESIGN SPEED	70 MPH	55 MPH
LEGAL SPEED	65 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	02 OTHER FREEWAY & EXPRESSWAY (RURAL)	07 LOCAL ROAD (RURAL) LOW VOLUME
NHS PROJECT	YES	NO

**DESIGN EXCEPTIONS**

NONE REQUIRED

**ADA DESIGN WAIVERS**

NONE REQUIRED

**UNDERGROUND UTILITIES**  
Contact Two Working Days  
Before You Dig

**OHIO811.org**  
Before You Dig

**OHIO811, 8-1-1, or 1-800-362-2764**  
(Non members must be called directly)

PLAN PREPARED BY:  
**PATRICK ENGINEERING**  
ONE CROSSWOODS, SUITE 330  
100 E CAMPUS VIEW BLVD. COLUMBUS, OHIO, 43235

ENGINEER'S SEAL  
FOR ROADWAY

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STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/19/24	MGS-6.1	1/19/18	TC-41.20	10/18/13	AS-1-15	1/21/23	800	WATERWAY PERMIT 05/15/2024
BP-3.2	1/18/19	MGS-6.2	7/19/24	TC-41.30	4/21/23	AS-2-15	7/21/23	832	
BP-4.1	7/19/13			TC-42.20	10/18/13			840	
BP-9.1	1/18/19	GR-6.3	1/20/12	TC-61.30	7/19/24	PSID-1-13	7/19/24	878	
F-2.1	7/20/18	RM-4.2	4/17/20	TC-64.10	7/21/23	SBR-1-20	7/19/24		
F-3.1	7/19/13	RM-4.5	7/19/24	MT-95.40	7/21/23				
F-3.3	7/19/13	CB-3A	7/16/21	MT-95.45	7/21/23	SICD-1-21	1/19/24		
F-3.4	7/19/13			MT-99.20	4/19/19	SICD-2-14	1/15/21		
		DM-1.1	7/17/20	MT-99.60	7/19/24				
MGS-1.1	7/16/21	DM-4.1	7/17/20	MT-101.60	4/21/23	VPF-1-90	7/21/23		
MGS-2.1	1/19/18	DM-4.3	1/15/16	MT-101.75	7/21/23				
MGS-3.1	1/19/18	DM-4.4	1/15/16			HL-50.11	1/16/15		
MGS-4.3	1/18/13			HW-1.1	7/19/24				
MGS-5.2	7/15/16	HL-50.11	1/16/15	HW-2.1	7/15/22				
MGS-5.3	7/15/16	HL-50.21	7/15/22	HW-2.2	7/20/18				

ENGINEER'S SEAL  
FOR STRUCTURES OVER 20 FOOT SPAN

**FEDERAL PROJECT NUMBER**

E230 (402)

**RAILROAD INVOLVEMENT**

NONE

**PROJECT DESCRIPTION**

CONSTRUCT A NEW 0.42 MILE 2-LANE OVERPASS AT THE US24/CR 185 AT-GRADE INTERSECTION & REMOVE CURRENT INTERSECTION. THE PROJECT CONSISTS OF RAISING CR 185 OVER US24 ON THE EXISTING ALIGNMENT, CONSTRUCTING A NEW 2-SPAN BRIDGE & REMOVING INTERSECTION PAVEMENT ON US 24 & RESTORING US 24 TO A 4-LANE DIVIDED FACILITY.

**EARTH DISTURBED AREAS**

PROJECT EARTH DISTURBED AREA:	7.5 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.5 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	8.0 ACRES

**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2023 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEET 7 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Christopher A. Hughes, P.E.  
District 01 Deputy Director

Pamela Boratyn  
Director, Department of Transportation

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	02/14/2025	UPDATED DATE

TITLE SHEET

DESIGN AGENCY  
**PATRICK**  
a RNL company

DESIGNER  
DJT  
REVIEWER  
JMB 10/28/24  
PROJECT ID  
115840  
SHEET TOTAL  
P.1 | 143

DEF-24-11.35

MODEL: Sheet PAPER/SIZE: 34x22 (in.) DATE: 2/6/2025 TIME: 11:48:14 AM USER: DT004 pvc:\ohiodot-pw-bentley.com\ohiodot-pw-02\Documents\01 Active Projects\District 01\Defiance\115840\401-Engineering\_Patrick\Engineering\Roadway\Sheets\115840\_GT001.dgn

**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:

**GAS:**  
 ENERGY TRANSFER  
 5818 OH SR66  
 DEFIENCE, OHIO 43512  
 ATTN: TROY CLAYTON  
 PHONE: 419-276-4716  
 EMAIL: TROY.CLAYTON@ENERGYTRANSFER.COM

**ELECTRIC:**  
 TOLEDO EDISON & FIRST ENERGY ELECTRIC  
 ATTN: ANDREW STAMBAUGH  
 PHONE: 419-249-5178  
 EMAIL: ASTAMBAUGH@FIRSTENERGYDORP.COM

**FIBER OPTIC:**  
 BRIGHTSPEED  
 ATTN: ERIC FLORY  
 PHONE: 419-576-7089  
 EMAIL: RELOCATIONS@BRIGHTSPEED.COM

**TELEPHONE:**  
 AT&T  
 ATTN: ROB FEY  
 PHONE: 419-508-0395  
 EMAIL: RF1281@ATT.COM

**EXISTING PLANS**

EXISTING PLANS ENTITLED DEF-24-12.57/HEN-24-00.00 (1963) AND DEF/HEN-24-12.03/0.00 PART 1 (2006) MAY BE INSPECTED IN THE ODOT DISTRICT 1 OFFICE IN LIMA.

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**MONUMENT ASSEMBLIES**

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET RW 3.

**FENCE LENGTHS**

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

**ITEM 202 - PAVEMENT REMOVED, AS PER PLAN**

THIS ITEM SHALL INCLUDE THE REMOVAL OF ASPHALT CONCRETE PAVEMENT ALONG US 24 AS PER ITEM 202 EXCEPT THE FULL DEPTH SAW CUT AND REMOVAL OF THE EXISTING UNDERDRAINS SHALL BE INCIDENTAL TO THE WORK.

**SURVEYING PARAMETERS**

THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS WERE USED FOR ALL SURVEYING ON THIS PROJECT.

**PROJECT CONTROL**  
 POSITIONING METHOD: ODOT REAL TIME NETWORK (2011)  
 AND DIFFERENTIAL LEVELING  
 MONUMENT TYPE: TYPE B

**VERTICAL POSITIONING**  
 ORTHOMETRIC HEIGHT DATUM: NAVD 88  
 GEOID: 18

**HORIZONTAL POSITIONING**  
 REFERENCE FRAME: NAD 83 (2011 ADJ, 2010.0)  
 ELLIPSOID: GRS80  
 COORDINATE SYSTEM: O.D.O.T. - DEFIANCE OCCS\*  
 DEFIANCE OCCS PROJECTION PARAMETERS:  
 PROJECTION: LCC 1 PARALLEL  
 CENTRAL LATITUDE: N 41° 21' 00"  
 CENTRAL LONGITUDE: W 84° 30' 00"  
 FALSE NORTHING: 100,000 M  
 FALSE EASTING: 50,000 M  
 PROJECTION SCALE FACTOR: 1.000031

\*THE OHIO COUNTY COORDINATE SYSTEM (OCCS) IS A LOCAL COUNTY-WIDE LOW DISTORTION PROJECTION (LDP) DEVELOPED BY O.D.O.T. THE DISTORTION BETWEEN GROUND AND GRID IS SO MINIMAL THAT THERE IS NO NEED FOR A SCALE FACTOR TO ADJUST BETWEEN GRID AND GROUND COORDINATES. CONTACT THE DISTRICT SURVEY DEPARTMENT FOR FURTHER INFORMATION OR QUESTIONS.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

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.

**CLEARING AND GRUBBING**

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED INDIANA BAT AND NORTHERN LONG-EARED BAT, AND THE STATE ENDANGERED LITTLE BROWN AND TRICOLORED BATS. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	0	21	21
30"	0	5	5
48"	0	7	7
60"	0	0	0

**PAVEMENT RESTORATION FOR MONUMENT ASSEMBLY INSTALLATIONS**

THE FOLLOWING QUANTITY IS PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION OF ITEM 623, MONUMENT ASSEMBLIES.

ITEM 301, ASPHALT CONCRETE BASE, PG64-22, 1.0 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 301 THICKNESS OF 7 INCHES AND A WIDTH OF TWO FEET AROUND THE PERIMETER OF THE MONUMENT ASSEMBLIES.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

**ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**PROTECTION OF RIGHT-OF-WAY LANDSCAPING**

PRIOR TO BEGINNING WORK, THE CONTRACTOR, THE PROJECT ENGINEER, AND A REPRESENTATIVE OF THE MAINTAINING AGENCY WILL REVIEW AND RECORD ALL LANDSCAPING ITEMS WITHIN THE RIGHT-OF-WAY (BOTH WITHIN AND OUTSIDE THE CONSTRUCTION LIMITS). A RECORD OF THIS REVIEW WILL BE KEPT IN THE PROJECT ENGINEER'S FILES. PRIOR TO FINAL ACCEPTANCE, A FINAL REVIEW OF LANDSCAPING ITEMS WILL BE MADE.

CONSTRUCT ALL ACTIVITIES, EQUIPMENT STORAGE, AND STAGING TO WITHIN THE CONSTRUCTION LIMITS. UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL, THE CONSTRUCTION LIMITS ARE IDENTIFIED AS 30 FEET FROM THE EDGE OF PAVEMENT.

SUBMIT A WRITTEN REQUEST TO THE PROJECT ENGINEER TO USE ANY AREA OUTSIDE THESE LIMITS. THE DOCUMENT SUBMITTED MUST CLEARLY IDENTIFY THE AREA AND EXPLAIN THE PROPOSED USE AND RESTORATION OF THE AREA. USE OF THESE AREAS FOR DISPOSAL OF WASTE MATERIAL AND CONSTRUCTION DEBRIS, EXCAVATION OF BORROW MATERIAL AND PLACEMENT OF PORTABLE PLANTS IS PROHIBITED. THE REQUEST MUST BE APPROVED, IN WRITING, BEFORE THE CONTRACTOR HAS PERMISSION TO USE THE AREA.

ANY ITEMS DAMAGED BEYOND THE CONSTRUCTION LIMITS, AS DEFINED ABOVE, WILL BE REPLACED IN KIND OR AS APPROVED BY THE PROJECT ENGINEER.

**ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN  
 ITEM 606 - GUARDRAIL, BARRIER DESIGN, TYPE MGS, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 606, THIS ITEM REQUIRES STEEL POSTS AND COMPOSITE OR POLYMER ALTERNATIVE BLOCKOUTS. THE BLOCKOUTS SHALL BE FROM THE APPROVED PRODUCTS LIST THAT IS MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING AND INSTALLED PER CONSTRUCTION AND MATERIALS SPECIFICATION 606 AND ALL PERTINENT STANDARD DRAWINGS AND PLAN INSERT SHEETS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS AND APPROVED ALTERNATIVE MGS BLOCKOUTS SHALL BE INCLUDED IN THE UNIT BIDS FOR THE FOLLOWING ITEMS:

ITEM 606 - GUARDRAIL, TYPE MGS, AS PER PLAN  
 ITEM 606 - GUARDRAIL, BARRIER DESIGN, TYPE MGS, AS PER PLAN

**ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN**

IN ADDITION TO THE REQUIREMENTS OF ITEM 606, AND STANDARD CONSTRUCTIONS DRAWING MGS-3.1, THIS ITEM REQUIRES THE USE OF STEEL POSTS. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING STEEL POSTS SHALL BE INCLUDED IN THE UNIT BID FOR ITEM 606, MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN.

**ITEM 204 - SPECIAL - GEOCELL, SUBGRADE, 6", GEOWEB**

THE GEOWEB CELLULAR CONFINEMENT SYSTEM SHALL BE INSTALLED AS PER THE PLAN DETAILS AND USED FOR LOAD SUPPORT. THE CONTRACTOR SHALL INSTALL GW20V6, MANUFACTURED BY PRESTO GEOSYSTEMS, OR AN APPROVED EQUAL:

PRESTO SYSTEMS  
 P.O. BOX 2399  
 APPLETON, WI 54912-2399  
 TOLL FREE: 800-548-3424  
 PHONE: 920-738-1328  
 FAX: 920-738-1222  
 EMAIL: INFO@PRESTOCEO.COM  
 WEBSITE: WWW.PRESTOCEO.COM

TO PREPARE THE SUBGRADE, CLEAR THE SUBGRADE OF ROCKS, VEGETATION, AND OTHER DEBRIS. COMPACT THE SUBGRADE TO MEET THE 204 SPECIFICATION. LAY GEOTEXTILE FABRIC, ON TOP OF THE COMPACTED SUBGRADE. PLACE THE GEOWEB, ENSURING THAT ADJACENT PANELS ARE JOINED TOGETHER WITH KEYS AND STAKED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. FILL THE GEOWEB WITH A MIXTURE OF AGGREGATE (2/3) AND TOPSOIL (1/3) COMPLETELY COVERING THE GEOWEB. SEED THE GEOWEB AS PER ITEM 659. THE GEOCELL SHALL FOLLOW THE PROPOSED TOPOGRAPHY, INCLUDING PLACEMENT IN THE BOTTOM OF THE DITCH WHERE INDICATED ON THE PLANS.

MATERIALS:  
 GEOWEB: ITEM 204 - SPECIAL - GEOCELL, SUBGRADE, 6", GEOWEB  
 GEOTEXTILE: ITEM 204 - GEOTEXTILE FABRIC  
 AGGREGATE: ITEM 304 - AGGREGATE BASE  
 TOPSOIL: ITEM 659 - TOPSOIL

METHOD OF MEASUREMENT:  
 MEASURED BY THE SQUARE YARD IN PLACE

BASIS OF PAYMENT:  
 PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID ITEM 204 - SPECIAL - GEOCELL, SUBGRADE, 6", GEOWEB AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS LISTED NECESSARY TO CONSTRUCT THE GEOWEB, INCLUDING EXCAVATION, GEOTEXTILE FABRIC, AGGREGATE, TOPSOIL AND GRADING.

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	02/14/2025	REVISED NOTE AND MOVED NOTE

DESIGN AGENCY  
  
 a RNL company

DESIGNER  
 DJT

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

SHEET TOTAL  
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**FARM DRAINS**

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT. IN ADDITION TO THE REQUIREMENTS OF C&MS SECTION 107.10, SPECIAL CARE MUST BE TAKEN TO ENSURE THAT SURFACE DRAINAGE AND TILE OUTLETS ARE MAINTAINED AS TO NOT NEGATIVELY IMPACT SURROUNDING AGRICULTURAL PROPERTY.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 - 12" CONDUIT, TYPE B	10 FT.
611 - 10" CONDUIT, TYPE E	10 FT.
611 - 6" CONDUIT, TYPE F	100 FT.

**UNRECORDED STORM WATER DRAINAGE**

FURNISH A CONTINUANCE FOR ALL UNRECORDED STORM WATER DRAINAGE, SUCH AS ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 611 - 4" CONDUIT, TYPE E	50 FT
ITEM 611 - 8" CONDUIT, TYPE C	50 FT
ITEM 611 - 12" CONDUIT, TYPE B	50 FT

**ITEM 611 - CATCH BASIN, NO. 2-2A, AS PER PLAN**

ALL ITEMS SHALL BE IN ACCORDANCE WITH ITEM 611, EXCEPT GRATES, WHICH SHALL BE SLOPED TO MATCH THE PROPOSED SLOPE THEY ARE INSTALLED IN

**POST CONSTRUCTION STORM WATER TREATMENT**

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

**STORM WATER POLLUTION PREVENTION PLAN**

THE CONDITIONS OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT (SEE PROPOSAL) SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED.

INSTALLATION OF ALL TEMPORARY AND SEDIMENT CONTROL ITEMS SHALL BE AS PER ODOT SUPPLEMENTAL SPECIFICATION 832.

ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND.

AREAS TO REMAIN DORMANT FOR MORE THAN 14 DAYS SHOULD BE IMMEDIATELY STABILIZED WITH CONSTRUCTION SEEDING AND MULCHING, EROSION CONTROL MATTING OR OTHER APPROPRIATE EROSION CONTROL MEASURES

PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO PREPARE AND HAVE APPROVED A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH SS 832. AN ELECTRONIC FILE IN MICROSTATION FORMAT OF THE PROJECT SITE PLAN WILL BE PROVIDED FOR THE CONTRACTOR'S USE.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 832-STORM WATER POLLUTION PREVENTION PLAN LS

ITEM 832-STORM WATER POLLUTION PREVENTION INSPECTIONS LS

ITEM 832-STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE LS

ITEM 832-EROSION CONTROL 40000 EACH

SEE SHEET P.20 FOR PROJECT SITE PLAN.

**EXISTING SUBSURFACE DRAINAGE**

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION. PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE. UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611, 6" CONDUIT, TYPE F 50 FT.

ITEM 611, PRECAST REINFORCED CONCRETE OUTLET 2 EACH

ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS 50 FT.

**SEEDING AND MULCHING**

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	4030 CU. YD.
659, SEEDING AND MULCHING	33928 SQ. YD. *
659, REPAIR SEEDING AND MULCHING	1815 SQ. YD.
659, INTER-SEEDING	1815 SQ. YD.
659, COMMERCIAL FERTILIZER	4.9 TON
659, LIME	7.50 ACRES
659, WATER	196 M. GAL.

\* FROM SHEET P.67

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.

**ITEM 659, SEEDING AND MULCHING, AS PER PLAN**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE

THIS ITEM OF WORK SHALL BE COMPLETED PER CMS SECTION 659 USING A LAWN SEED MIX CONSISTING OF THE FOLLOWING MIX:

- 25% PALMER IV VARIETY OF PERENNIAL RYEGRASS
- 25% PRELUDE IV PERENNIAL RYEGRASS
- 25% DRAGON KENTUCKY BLUEGRASS
- 25% GUINNESS KENTUCKY BLUEGRASS

LAKESHORE SUNNY SELECT FROM JEWELL GRAIN CO. OR AN EQUAL APPROVED BY THE PROJECT ENGINEER MAY BE USED.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER SQUARE YARD FOR ITEM 659, SEEDING AND MULCHING, AS PER PLAN.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 659, SEEDING AND MULCHING, AS PER PLAN 2559 SQ. YD.

**VEGETATED FILTER STRIP**

THIS PLAN UTILIZES VEGETATED FILTER STRIPS FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE 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. TOPSOIL AND SEEDING AND MULCHING HAS BEEN INCLUDED FOR PAYMENT WITH THE SEEDING AND MULCHING NOTE ABOVE.

ITEM 670 - SLOPE EROSION PROTECTION ADDED FOR VEGETATED FILTER STRIP.

TOTAL QUANTITY 11,728 SY

**ENVIRONMENTAL COMMITMENTS**

ODOT WILL ACQUIRE ALL NECESSARY WATERWAY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONDITIONS OF THESE PERMITS WILL BE PROVIDED IN THE CONTRACT AS SPECIAL PROVISIONS. ODOT WILL PROVIDE THE WATERWAY PERMITS TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE SPECIAL PROVISIONS OF THE WATERWAY PERMITS THROUGHOUT THE DURATION OF THE CONTRACT.

**ITEM 607-FENCE, TYPE 47, AS PER PLAN**

THIS ITEM CONSISTS OF FURNISHING AND INSTALLING TYPE 47 FENCE AS PER THE STANDARD CONSTRUCTION DRAWING F-2.1 WITH THE FOLLOWING REVISIONS:

IN ADDITION, THIS ITEM SHALL INCLUDE CLEARING OF THE NEW FENCE ALIGNMENT OF TREES AND BRUSH, FURNISHING AND APPLYING CUT STUMP HERBICIDE AND FURNISHING AND ERECTING NEW FENCE AND ASSOCIATED HARDWARE IN ACCORDANCE WITH THE PLAN AND CURRENT STANDARDS THE CONTRACTOR IS ADVISED TO VISIT THE SITE TO DETERMINE THE CORRECT NUMBERS OF INDIVIDUAL FENCE COMPONENTS REQUIRED TO CONSTRUCT THE NEW FENCE IN ACCORDANCE WITH CURRENT STANDARDS.

THE INTENT OF THE PLAN IS TO CONSTRUCT THE NEW FENCE IN THE SAME LOCATION AS THE EXISTING FENCE, EXCEPT WHERE INDICATED IN THE PLANS AND WHERE IT IS NECESSARY TO COMPLY WITH CURRENT STANDARDS (E.G. AT STRUCTURES, ETC.) WHERE EXISTING FENCE IS LOCATED ADJACENT TO THE LA-RW, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY LINE AND THE NEW FENCE SHALL BE LOCATED FROM THE RIGHT-OF-WAY LINE IN ACCORDANCE WITH CURRENT STANDARDS. PAYMENT FOR THE CONTRACTOR TO LOCATE THE EXISTING LA-R/W SHALL BE INCLUDED IN ITEM 607-FENCE, TYPE 47, AS PER PLAN. IN ALL CASES, CURRENT STANDARD CONSTRUCTION DRAWINGS SHALL BE USED TO ESTABLISH THE CORRECT CONFIGURATION AND LOCATION OF THE NEW FENCE.

ALL TREES AND BRUSH WITHIN AN AREA 2 FEET EITHER SIDE OF THE FENCE AND A SUFFICIENT DISTANCE INSIDE THE FENCE ALIGNMENT TO PERMIT ITS CONSTRUCTION SHALL BE REMOVED IN ACCORDANCE WITH ITEM 201, EXCEPT THAT NO STUMP MAY EXCEED A HEIGHT OF 2 INCHES ABOVE THE EXISTING GROUND SURFACE. THE STUMPS OF ALL TREES AND BRANCHES SHALL BE TREATED WITH AN EPA REGISTERED HERBICIDE LABELED FOR CUT STUMP TREATMENT. THE HERBICIDE SHALL BE APPLIED ACCORDING TO LABEL INSTRUCTIONS THE HERBICIDE USED FOR THIS PROJECT SHALL BE SHIPPED IN NEW SEALED CONTAINERS BEARING THE MANUFACTURERS LABEL THE CONTRACTOR SHALL BE LICENSED BY THE OHIO DEPARTMENT OF AGRICULTURE AS A COMMERCIAL OR LIMITED COMMERCIAL APPLICATORS OR UNDER THE DIRECT SUPERVISION OF THE SAME.

OHIO LAW REGULATES THE DISPOSAL OF LANDSCAPE WASTE THAT RESULT FROM ROADWAY CLEARING AND GRUBBING OPERATIONS. THE REGULATED WASTES INCLUDES BRUSH, TREES, STUMPS, TREE TRIMMINGS, BRANCHES WEEDS, LEAVES, GRASS, SHRUBBERY, YARD TRIMMINGS, CROP RESIDUE, AND OTHER PLANT MATTER, EXCLUDING SOIL AND GARBAGE. THIS MATERIAL SHALL NOT BE BURIED OFF THE RIGHT-OF-WAY, THIS MATERIAL MAY BE BURIED IN NONSTRUCTURAL AREAS ON THE PROJECT SITE OR RIGHT-OF-WAY, WHERE PERMITTED BY THE ENGINEER.

ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AND SEEDED ACCORDING TO ITEM 659 AND INCLUDED FOR PAYMENT IN ITEM 607- FENCE, TYPE 47, AS PER PLAN.

FENCE GROUNDING REQUIRED FOR OVERHEAD ELECTRIC LINES, IS TO BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING HL-50.11.

FENCE GROUNDS WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 625- GROUND ROD.

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS MEASUREMENTS OF THE FINAL QUANTITIES WILL BE MADE IN ACCORDANCE WITH ITEM 607.

THE COST OF ALL THE ABOVE, EXCEPT ITEM 625, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 607- FENCE TYPE 47, AS PER PLAN.

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	02/14/2025	MOVED NOTE

DESIGN AGENCY  
**PATRICK**  
a RNL company

DESIGNER  
DJT

REVIEWER  
JMB 10/28/24

PROJECT ID  
115840

SHEET TOTAL  
P.7 143

**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).

**REMOVAL MISC.: BILLBOARD TO BE REMOVED**

REMOVE THE EXISTING BILLBOARD AND SUPPORTING POSTS TO 2 FOOT BELOW THE PROPOSED GROUND LINE. THE BILLBOARD AND POSTS ARE TO BE DISPOSED OF IN ACCORDANCE WITH CMS 105.17.

**ITEM SPECIAL - MAILBOX REMOVED AND RESET**

THIS WORK SHALL CONSIST OF REMOVING MAILBOXES, MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS.

IN ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX FOR PLACEMENT ON A 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 HAULING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF THE REMOVED MAILBOX SUPPORTS AND ANY MAILBOXES AND ASSOCIATED MOUNTING HARDWARE THAT ARE NOT RESET.

THE ABOVE REMOVAL AND ANY SALVAGING FOR RESET WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL - MAILBOX REMOVED AND RESET.

**ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING**

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE TYPICAL 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.
3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE TYPICAL 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.
5. 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.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
7. 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.

**PERSONAL PROTECTION EQUIPMENT (PPE)**

THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF SECTIONS XXIV AND XXXIV OF THE OHIO DEPARTMENT OF TRANSPORTATION SAFETY & HEALTH STANDARD OPERATING PROCEDURE 220-006(SP) EFFECTIVE: NOVEMBER 1, 2018 (EXCEPT AS AMENDED BELOW) AND ALL SUBSEQUENT UPDATES POSTED AT THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/POLICY/POLICIESANDSOPS/POLICIES/220-006(SP).PDF

AMENDMENTS TO THE REQUIREMENTS OF THIS DOCUMENT ARE:

**HEAD PROTECTION (HARD HATS):**

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR APPROPRIATE HEAD PROTECTION. ALL HARD HATS MUST MEET OR EXCEED ANSI Z89.1-2009 TYPE 1, CLASS E-G REQUIREMENTS. XXXIV.

**SAFETY APPAREL AND VEST (HIGH VISIBILITY):**

ALL PERSONS WITHIN THE RIGHT-OF-WAY OF ANY HIGHWAY OR ANY OTHER TYPE OF ROADWAY OR CONSTRUCTION SITE WHO ARE EXPOSED TO EITHER TRAFFIC (VEHICLES USING THE HIGHWAY FOR PURPOSES OF TRAVEL) OR CONSTRUCTION EQUIPMENT WITHIN THE WORK AREA, REGARDLESS OF JOB TYPE, SHALL WEAR A HIGH VISIBILITY SAFETY VEST THAT MEETS THE PERFORMANCE CLASS II OR CLASS III REQUIREMENTS OF THE ANSI/ISEA 107-2015 PUBLICATION ENTITLED "AMERICAN NATIONAL STANDARD FOR HIGH-VISIBILITY SAFETY APPAREL AND ACCESSORIES." WORKERS MAY WEAR AN ANSI CLASS II OR ANSI CLASS III APPROVED RAIN SUIT, JACKET OR OTHER APPAREL WITHOUT A SAFETY VEST OVER IT.

ADDENDUM	NUMBER	DATE	DESCRIPTION
	▲	02/14/2025	ADDED NOTE



DESIGNER	DJT
REVIEWER	JMB 10/28/24
PROJECT ID	115840
SHEET	P.8
TOTAL	143

SHEET NUM.								PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
P.6	P.7	P.16	P.17	P.18	P.19	P.67	RW 3	01/SAF/08	EXT	TOTAL					
LS									LS	201	11000	LS	CLEARING AND GRUBBING		
		5,201							5,201	202	23000	5,201	SY	PAVEMENT REMOVED	
		4,252							4,252	202	23001	4,252	SY	PAVEMENT REMOVED, AS PER PLAN	P.6
		975							975	202	35100	975	FT	PIPE REMOVED, 24" AND UNDER	
		320							320	202	35200	320	FT	PIPE REMOVED, OVER 24"	
		1							1	202	58100	1	EACH	CATCH BASIN REMOVED	
		2,313							2,313	202	75000	2,313	FT	FENCE REMOVED	
		1							1	202	98100	1	EACH	REMOVAL MISC.: BILLBOARD TO BE REMOVED	P.8
						2,762			2,762	203	10000	2,762	CY	EXCAVATION	
						82,304			82,304	203	20000	82,304	CY	EMBANKMENT	
				7,993					7,993	204	10000	7,993	SY	SUBGRADE COMPACTION	
				209					209	204	13000	209	CY	EXCAVATION OF SUBGRADE	
				209					209	204	20000	209	CY	EMBANKMENT	
				627					627	204	50000	627	SY	GEOTEXTILE FABRIC	
				988					988	606	15051	988	FT	GUARDRAIL, TYPE MGS, AS PER PLAN	P.6
				151					151	606	15551	151	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS, AS PER PLAN	P.6
				4					4	606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
				2					2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
				4					4	606	35003	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, AS PER PLAN	P.6
				2					2	606	60012	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
				1,820					1,820	607	15001	1,820	FT	FENCE, TYPE 47, AS PER PLAN	P.7
				308					308	622	10160	308	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
							1		1	623	38500	1	EACH	MONUMENT ASSEMBLY, TYPE C	
							1		1	623	40000	1	EACH	MONUMENT ASSEMBLY REMOVED AND RESET	
							1		1	623	40520	1	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
							12		12	623	40900	12	EACH	MONUMENT, MISC.: MAG SPIKE TO BE SET DURING CONSTRUCTION, OR IRON PIN FOUND, OR MAG NAIL FOUND	RW 3
									LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
									LS	623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
							4		4	625	32000	4	EACH	GROUND ROD	
				324					324	SPECIAL	20460000	324	SY	GEOCELL, SUBGRADE, 6", GEOWEB	P.6, P.22
		2							2	SPECIAL	69050100	2	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	P.25, P.29
		2							2	SPECIAL	69050350	2	EACH	MAILBOX REMOVED AND RESET	P.25, P.29
														EROSION CONTROL	
					13				13	601	21050	13	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
					19				19	601	32210	19	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER	
									2	659	00100	2	EACH	SOIL ANALYSIS TEST	
		4,030							4,030	659	00300	4,030	CY	TOPSOIL	
		33,928							33,928	659	10000	33,928	SY	SEEDING AND MULCHING	
		2,559							2,559	659	10001	2,559	SY	SEEDING AND MULCHING, AS PER PLAN	P.7
		1,815							1,815	659	14000	1,815	SY	REPAIR SEEDING AND MULCHING	
		1,815							1,815	659	15000	1,815	SY	INTER-SEEDING	
		4.9							4.9	659	20000	4.9	TON	COMMERCIAL FERTILIZER	
		7.5							7.5	659	31000	7.5	ACRE	LIME	
		196							196	659	35000	196	MGAL	WATER	
									11,728	670	00500	11,728	SY	SLOPE EROSION PROTECTION	
	LS								LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
	LS								LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
	LS								LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
	40,000								40,000	832	30000	40,000	EACH	EROSION CONTROL	
														DRAINAGE	
									20.3	602	20000	20.3	CY	CONCRETE MASONRY	
					3,230				3,230	605	06000	3,230	FT	4" BASE PIPE UNDERDRAINS	
					1,835				1,835	605	11110	1,835	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
	50								50	605	13300	50	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	02/14/2025	ADDED AND REVISED QUANTITIES

GENERAL SUMMARY

DESIGN AGENCY  
  
 a RHR company

DESIGNER  
 DJT

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

SHEET TOTAL  
 P.14 143

SHEET NUM.									PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.6	P.7	P.12	P.13	P.17	P.18	P.19	P.81	P.88	01/SAF/08	△	EXT	TOTAL			
					22				22	611	00200	22	FT	4" CONDUIT, TYPE C	
	50								50	611	00400	50	FT	4" CONDUIT, TYPE E	
					137				137	611	00410	137	FT	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	
					123				123	611	00510	123	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	150				377				527	611	01100	527	FT	6" CONDUIT, TYPE C	
	50				37				87	611	02000	87	FT	8" CONDUIT, TYPE C	
	10								10	611	03600	10	FT	10" CONDUIT, TYPE E	
	60				64				124	611	04400	124	FT	12" CONDUIT, TYPE B	
					338				338	611	04600	338	FT	12" CONDUIT, TYPE C	
					250				250	611	04900	250	FT	12" CONDUIT, TYPE D	
					168				168	611	05200	168	FT	12" CONDUIT, TYPE F, 707.05 TYPE C, 707.21, OR 707.33	
					382				382	611	06100	382	FT	15" CONDUIT, TYPE C	
					226				226	611	11900	226	FT	27" CONDUIT, TYPE B, 706.02 OR 707.33; OR 30" TYPE B, 707.11 OR 707.24	
					158				158	611	13200	158	FT	30" CONDUIT, TYPE A, 706.02 OR 707.33; OR 36" TYPE A, 707.01 (ALUMINIZED) OR 707.21	
					440				440	611	16200	440	FT	36" CONDUIT, TYPE A, 706.02 OR 707.33; OR 42" TYPE A, 707.01 (ALUMINIZED) OR 707.21	
					3				3	611	98451	3	EACH	CATCH BASIN, NO. 2-2A, AS PER PLAN	P.7
					4				4	611	99114	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
					1				1	611	99574	1	EACH	MANHOLE, NO. 3	
	2				11				13	611	99710	13	EACH	PRECAST REINFORCED CONCRETE OUTLET	
														PAVEMENT	
1					118				118	254	01000	118	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"	
					768				769	301	56000	769	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
					1,785				1,785	304	20000	1,785	CY	AGGREGATE BASE	
					802				802	407	20000	802	GAL	NON-TRACKING TACK COAT	
					237				237	441	50000	237	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
					331				331	441	50300	331	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
					3				3	441	70500	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
				74					74	609	24510	74	FT	CURB, TYPE 4-C	
							1,865		1,865	618	40100	1,865	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
														ELECTRICAL	
								1	1	625	33001	1	EACH	STRUCTURE GROUNDING SYSTEM, AS PER PLAN	P.88
														TRAFFIC CONTROL	
					10				10	626	00102	10	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
					8				8	626	00110	8	EACH	BARRIER REFLECTOR, TYPE 2 (1 WAY)	
					12				12	626	00110	12	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
							18		18	630	80300	18	SF	SIGN, TEMPORARY OVERLAY	
							34		34	630	84900	34	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							51		51	630	86002	51	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							100		100	642	30000	100	FT	REMOVAL OF PAVEMENT MARKING	
							0.88		0.88	643	00100	0.88	MILE	EDGE LINE, 4"	
							1.09		1.09	643	00104	1.09	MILE	EDGE LINE, 6"	
							0.54		0.54	643	00204	0.54	MILE	LANE LINE, 6"	
							0.44		0.44	643	00300	0.44	MILE	CENTER LINE	
														RETAINING WALLS (MSE)	
														MSE WALL ESTIMATED QUANTITIES	P.94
														STRUCTURE OVER 20 FOOT SPAN (DEF-24-11.35)	
														ESTIMATED QUANTITIES FOR BRIDGE DEF-24-11.35	P.90
														MAINTENANCE OF TRAFFIC	
					64				64	614	11110	64	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		6							6	614	12380	6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
		LS							LS	614	12420	LS		DETOUR SIGNING	
					10				10	614	12500	10	EACH	REPLACEMENT SIGN	
					50				50	614	12600	50	EACH	REPLACEMENT DRUM	
					140				140	614	13310	140	EACH	BARRIER REFLECTOR, TYPE 1 (1 WAY)	
					140				140	614	13350	140	EACH	OBJECT MARKER, ONE WAY	
					20				20	614	18601	20	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.13
					1				1	614	22210	1	MILE	WORK ZONE EDGE LINE, CLASS 1, 6", 740.06, TYPE I	
					240				240	616	10000	240	MGAL	WATER	
					6,954				6,954	622	41100	6,954	FT	PORTABLE BARRIER, UNANCHORED	
														INCIDENTALS	
									LS	614	11000	LS		MAINTAINING TRAFFIC	
									8	619	16010	8	MNTH	FIELD OFFICE, TYPE B	
									LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
									LS	624	10000	LS		MOBILIZATION	

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	02/14/2025	REVISED QUANTITIES

GENERAL SUMMARY

DESIGN AGENCY  
  
 a RJA company  
 DESIGNER  
 DJT  
 REVIEWER  
 JMB 10/28/24  
 PROJECT ID  
 115840  
 SHEET TOTAL  
 P.15 143



DEF-24-11.35

MODEL: Sheet PAPER: 34x22 (in.) DATE: 2/20/2025 TIME: 4:27:28 PM USER: DT004  
 p:\vhodoo-pw-bentley.com\vhodoo-pw-02\Documents\01 Active Projects\District 01\Defiance\115840\40-Engineering\_PatrickEngineering\Roadway\Sheets\115840\_GS02.dgn

STATION RANGE			TYPICAL SECTION	SIDE	DISTANCE (D) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=DxW/9 SY	CADD GENERATED AREA SY	204	204	204	204	204	254	301	304	304	304	407	441	441	441								
									EXCAVATION OF SUBGRADE, 12" CY	EMBANKMENT, 12" CY	SUBGRADE COMPACTION SY	GEOTEXTILE FABRIC SY	SPECIAL - GEOCELL, SUBGRADE, 6", GEOWEB SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3" SY	ASPHALT CONCRETE BASE, PG64-22, (449), 4" CY	AGGREGATE BASE, 6" CY	AGGREGATE BASE, 8" CY	AGGREGATE BASE, 13.5" CY	NON-TRACKING TACK COAT (0.06 GAL/SY) GAL	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22, 1.25" CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), 1.75" CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS), 2" CY								
CR 185		CR 185																												
108+29.50	TO	108+79.50		LT/RT	50.00	21.20	117.78							117.78																
108+79.50		109+00.00		LT/RT	20.50	21.70	49.43								5.60	8.87														
108+79.50		109+64.00		LT/RT	84.50	35.00	328.61		109.54	109.54																				
109+00.00		109+50.00		LT/RT	50.00	28.00	155.56																							
109+50.00		114+67.50		LT	517.50	15.00	862.50								17.52	27.47														
109+50.00		114+32.50		RT	482.50	15.00	804.17								99.11	159.75														
114+67.50		115+27.50		LT	60.00	15.50	103.33								92.41	148.95														
114+32.50		114+92.50		RT	60.00	15.50	103.33								11.86	19.08														
115+27.50		118+62.63		LT	335.13	16.00	595.79								11.86	19.08														
114+92.50		118+62.63		RT	370.13	16.00	658.01								68.28	109.66														
															75.41	121.11														
121+38.37		125+17.50		LT	379.13	16.00	674.01								77.25	124.06														
121+38.37		125+37.50		RT	399.13	16.00	709.56								81.32	130.60														
125+17.50		125+77.50		LT	60.00	15.50	103.33								11.86	19.08														
125+37.50		125+97.50		RT	60.00	15.50	103.33								11.86	19.08														
125+77.50		129+88.35		LT	410.85	15.00	684.75								78.69	126.83														
125+97.50		129+82.89		RT	385.39	15.00	642.32								73.81	118.97														
129+88.35		130+38.35		LT	50.00	14.00	77.78								8.97	14.51														
129+82.89		130+32.89		RT	50.00	14.00	77.78								8.97	14.51														
130+31.00		131+07.50		LT/RT	76.50	35.00	297.50		99.17	99.17																				
130+38.35		131+07.50		LT	69.15	10.43	80.14								9.38	15.49														
130+32.89		131+07.50		RT	74.61	10.38	86.05								10.08	16.65														
131+07.50		131+57.50		LT	50.00	9.93	55.17								6.48	10.74														
131+07.50		131+57.50		RT	50.00	9.88	54.89								6.45	10.69														
US 24WB		US 24 WB																												
844+25.00		847+50.00		LT	325.00	2.00	72.22																							
838+00.00		852+33.93		RT	1433.93	2.00	318.65																							
US 24 EB		US 24 EB																												
838+00.00		852+33.93		LT	1433.93	2.00	318.65																							
843+00.00		846+51.53		RT	351.53	2.00	78.12																							
DRIVE DR1/DR1A																														
10+11.00 DR1		20+50.00 DR1A					155.89																							
20+50.00		23+15.00 DR1A					349.44																							
DRIVE DR2																														
10+11.00		10+61.00					126.40																							
SERVICE ROAD																														
10+11.00		12+00.00					421.67																							
12+00.00		14+14.25					476.22																							
DRIVE DR3																														
10+11.13		10+55.00					79.33																							
DRIVE DR4																														
10+10.25		10+30.00					35.22																							
MB TURNOUTS																														
GEOCELLS																														
C-1							117.00																							
C-2							103.00																							
C-3							114.00																							
<b>SUBTOTALS</b>								208.70	208.70	7992.56	626.11	324.00	117.78		767.15	1241.29	305.08	238.99		801.75	236.08	330.51	2.03							





REF NO.	SHEET NO.	SIDE	STATION TO STATION		601	601	602	605	605	611	611	611	611	611	611	611	611	611	611	611	611	611	BENDS, TEES & BRANCHES FOR INFO. ONLY	
					TIED CONCRETE BLOCK MAT, TYPE 1 UNDERLAYMENT	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER	CONCRETE MASONRY	4" BASE PIPE UNDERDRAINS	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC (702.09) TYPE A	4" CONDUIT, TYPE C	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	6" CONDUIT, TYPE C	8" CONDUIT, TYPE C	12" CONDUIT, TYPE B	12" CONDUIT, TYPE C	12" CONDUIT, TYPE D	12" CONDUIT, TYPE F, 707.05 TYPE C, 707.21, OR 707.33	15" CONDUIT, TYPE C	27" CONDUIT, TYPE B, 706.02 OR 707.33; OR 30" TYPE B, 707.11 OR 707.24	30" CONDUIT, TYPE A, 706.02 OR 707.33; OR 36" TYPE A, 707.01 (ALUMINIZED) OR 707.21	36" CONDUIT, TYPE A, 706.02 OR 707.33; OR 42" TYPE A, 707.01 (ALUMINIZED) OR 707.21		INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D
BL CONST. US 24					SY	CY	CY	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
D-1	P.77	LT	844+70	TO	845+25									72										1
D-2	P.77	RT	843+99		846+59								261											1
BL CONST. CR 185																								
D-3	P.24	LT	109+83		110+17													35						
D-4	P.24	RT	111+07		111+42													35						
D-5	P.79	LT	109+00		113+10								53	37										
D-5A	P.80	LT	114+73		118+00					22						338								
D-6	P.26	CL	118+00			0.83	0.68																	
D-7	P.72	CL	118+22			1.50	5.46																	
D-8	P.73	CL	121+83			11.67	12																	
D-9	P.26	CL	122+16			0.83	0.68																	
D-10	P.74	CL	124+26			4.00	1.52																	
D-11	P.28	RT	124+28		124+72							63												
D-12	P.28	LT	127+03		127+11													76						
D-13	P.28	LT	127+19		127+81													62						
D-14	P.29	RT	129+88		130+29													42						
BL CONST. US 24																								
UD-1	P.76		838+00		842+00																			
UD-2	P.76-P.77		841+95		844+00			408				20												
UD-3	P.77		844+05		845+33			252				10												1
UD-4	P.77		846+08		845+33			172				10												2
UD-5	P.77		846+08		845+33			75				10												
UD-6	P.77-P.78		843+00		845+25			225				1												1
UD-7	P.78		848+50		845+25			325																
UD-8	P.78		852+33		848+55			378																
BL CONST. CR 185																								
UD-8	P.24-P.25	RT	111+00		116+00			510			11													1
UD-9	P.24-P.25	LT	111+00		116+00			510			19													1
UD-10	P.25-P.26	RT	116+00		118+72	1.8		282			11													1
UD-11	P.25-P.26	LT	116+00		118+54	1.8		264			11													1
UD-12	P.26,P.28	RT	121+47		123+00	1.8		163			11													1
UD-13	P.26,P.28	LT	121+29		123+00	1.8		181			11													1
UD-14	P.28	RT	123+00		128+00	1.8		510			11													1
UD-15	P.28	LT	123+00		128+00	1.8		510			11													1
UD-16	P.28-P.29	RT	128+00		129+50			150			30													1
UD-17	P.28-P.29	LT	128+00		129+50	1.8		150			11													1

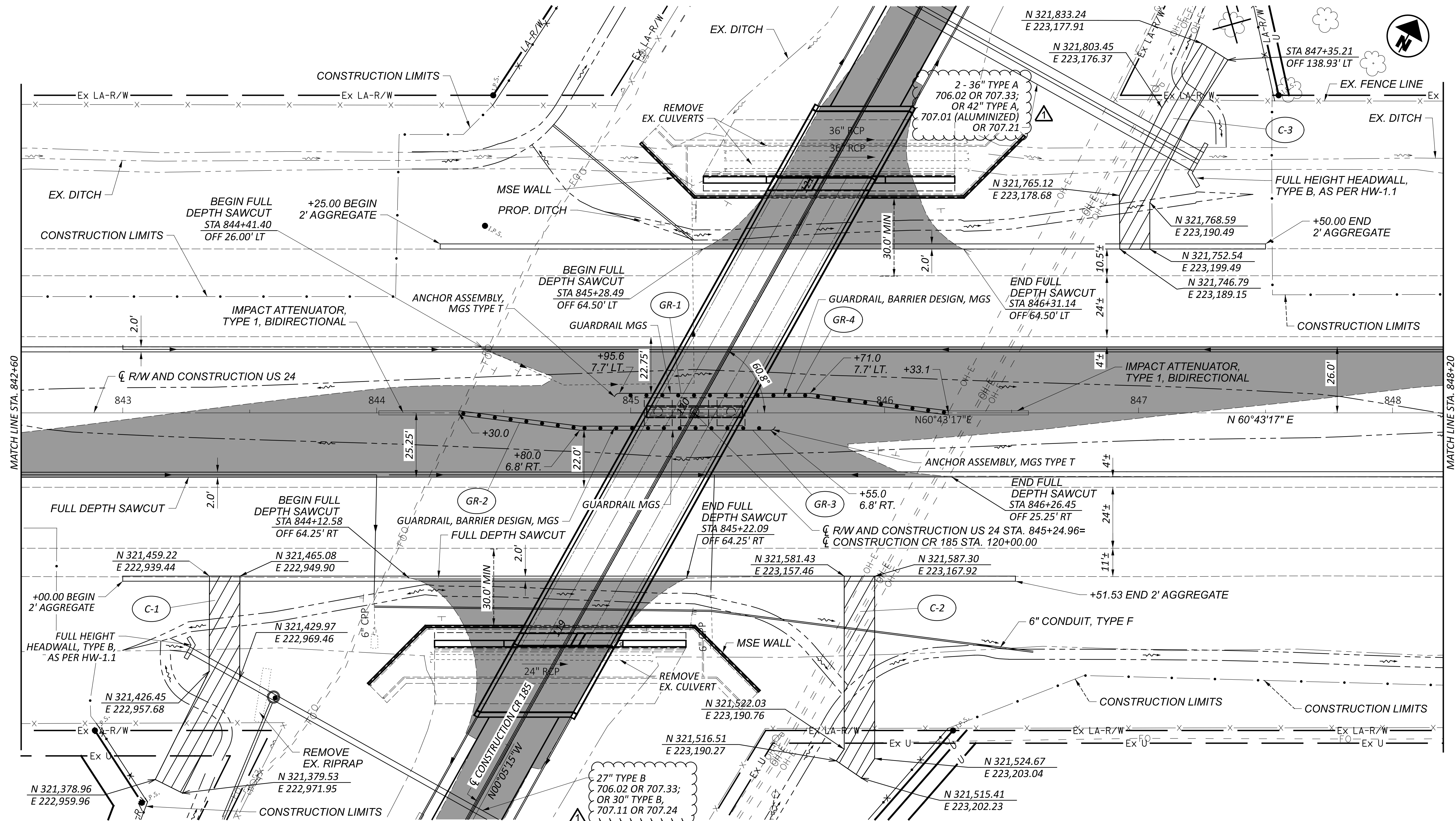
APPENDIX	NUMBER	DATE	DESCRIPTION
	▲	02/14/2025	REVISED AND UPDATED QUANTITIES

TOTALS CARRIED TO GENERAL SUMMARY

13	19	20.3	3230	1835	22	137	123	377	37	64	338	250	168	382	226	158	440	4	3	1	11			
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DRAINAGE SUBSUMMARY

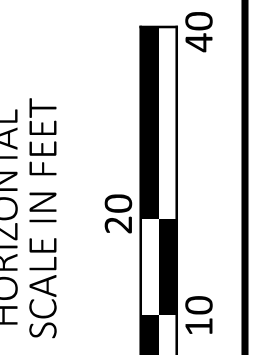
DESIGN AGENCY	
a  company	
DESIGNER	DJT
REVIEWER	JMB
PROJECT ID	10/28/24
SHEET	115840
TOTAL	P.19
	143



ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUTS

PAVEMENT TO BE REMOVED, AS PER PLAN  
 ITEM 204 - SPECIAL - GEOCELL, SUBGRADE, 6", GEOWEB

NOTE:  
 SEE DRAINAGE DETAILS SHEETS FOR UNDERDRAIN AND DITCH WORK.  
 SEE FENCE PLANS FOR FENCE DETAILS



PLAN US 24  
 STA. 842+60 TO STA. 848+20

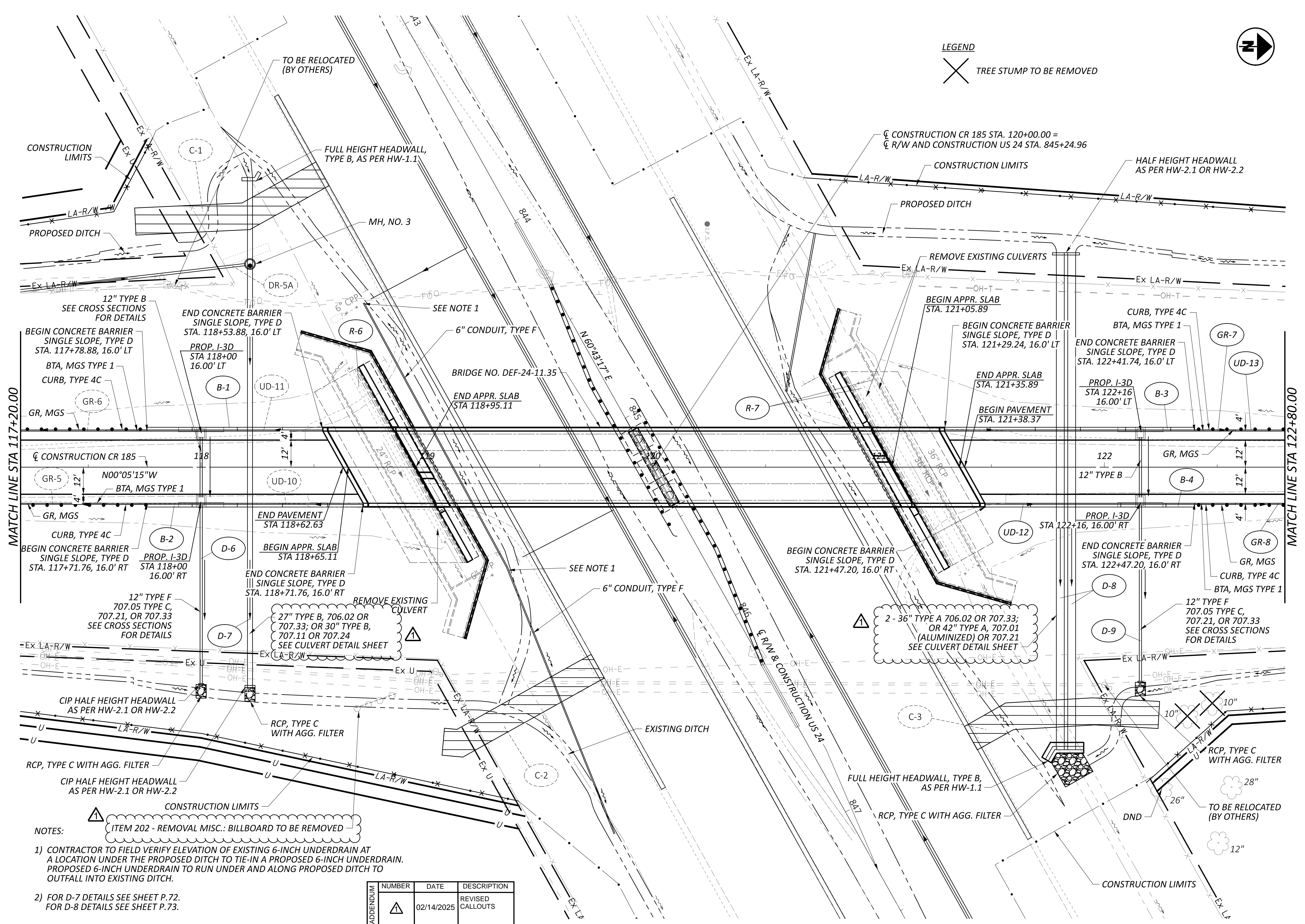
DESIGN AGENCY  
**PATRICK**  
 a RNL company

DESIGNER  
 DJT

REVIEWER  
 JMB 10/28/24

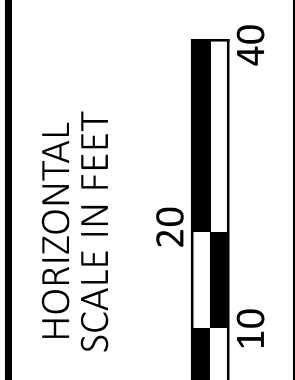
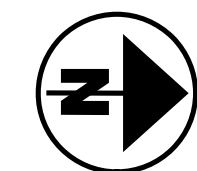
PROJECT ID  
 115840

SHEET TOTAL  
 P.22 143



LEGEND

X TREE STUMP TO BE REMOVED

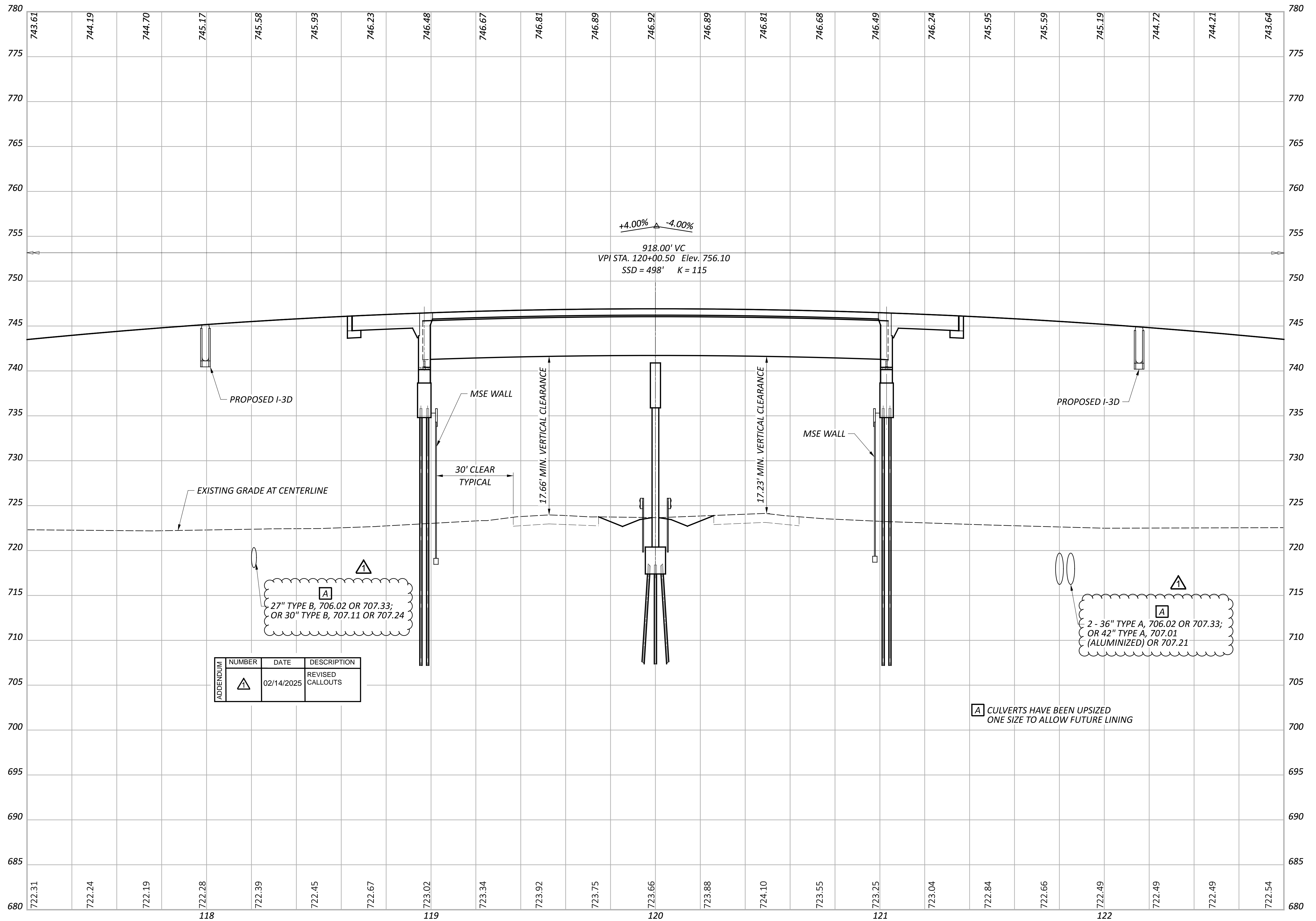


PLAN CR 185  
 STA. 117+20 TO STA. 122+80

DESIGN AGENCY	
PATRICK	
a RNL company	
DESIGNER	
DJT	
REVIEWER	
JMB 10/28/24	
PROJECT ID	
115840	
SHEET	TOTAL
P.26	143

NOTES:  
 1) CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING 6-INCH UNDERDRAIN AT A LOCATION UNDER THE PROPOSED DITCH TO TIE-IN A PROPOSED 6-INCH UNDERDRAIN. PROPOSED 6-INCH UNDERDRAIN TO RUN UNDER AND ALONG PROPOSED DITCH TO OUTFALL INTO EXISTING DITCH.  
 2) FOR D-7 DETAILS SEE SHEET P.72. FOR D-8 DETAILS SEE SHEET P.73.

ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUTS



APPENDIX	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUTS

**A** CULVERTS HAVE BEEN UPSIZED ONE SIZE TO ALLOW FUTURE LINING

PROFILE CR 185  
 STA. 117+20 TO STA. 122+80

DESIGN AGENCY

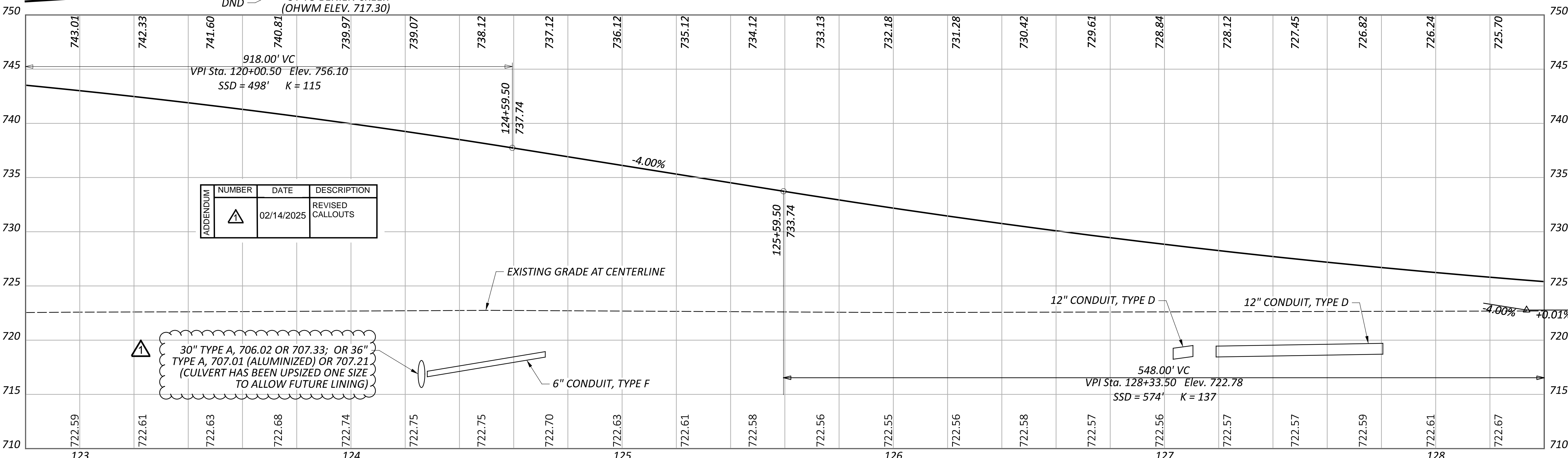
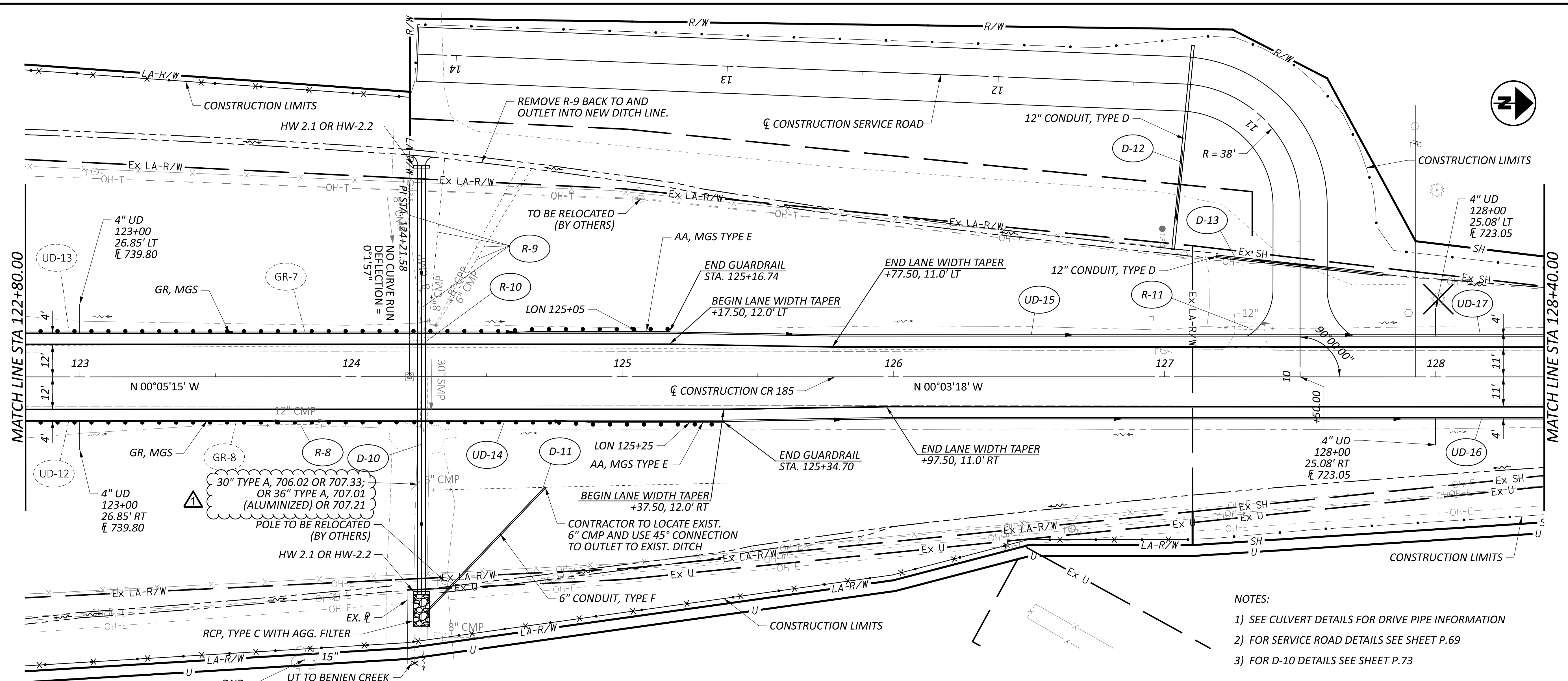


DESIGNER  
 DJT

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

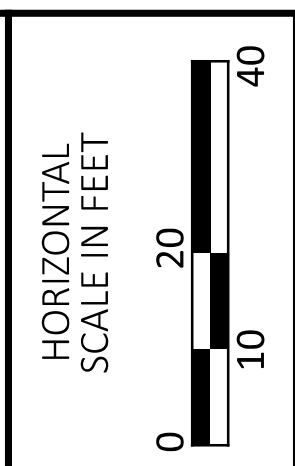
SHEET TOTAL  
 P.27 143



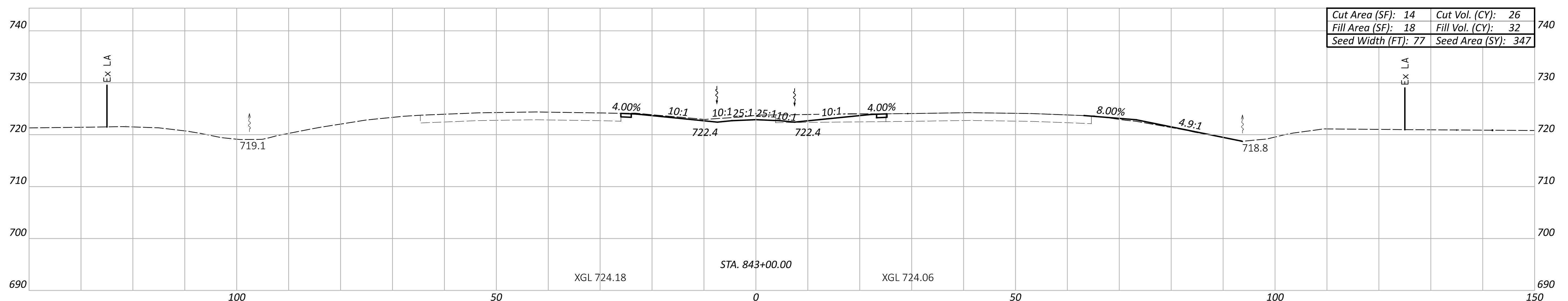
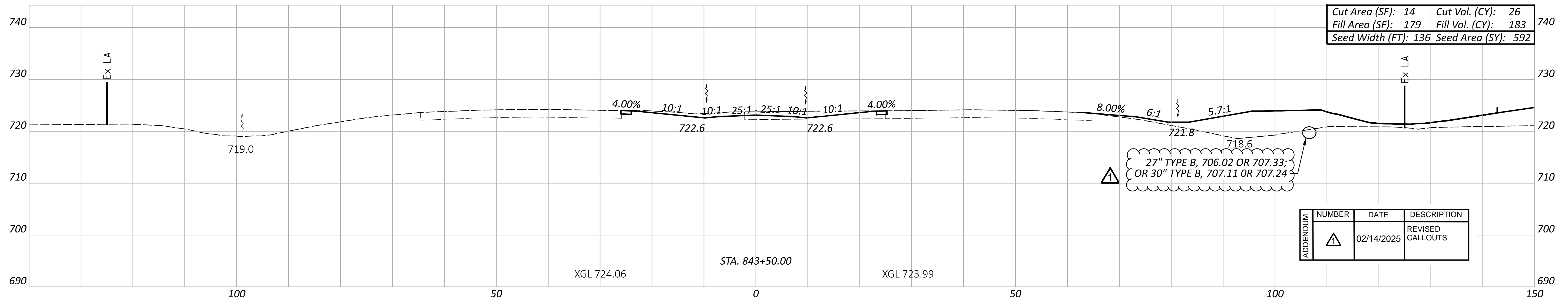
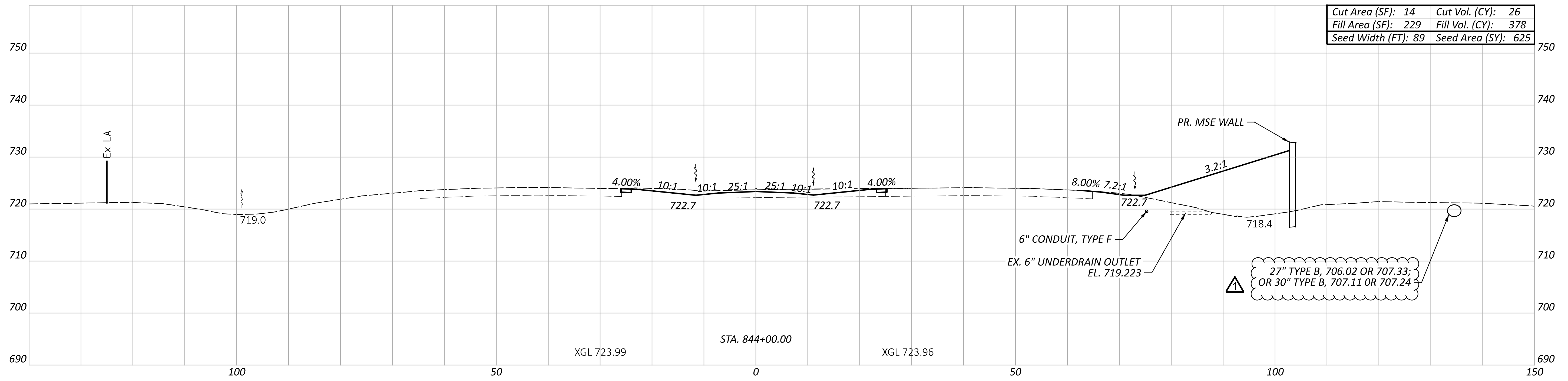
APPENDIX	NUMBER	DATE	DESCRIPTION
▲	▲	02/14/2025	REVISED CALLOUTS

▲ 30" TYPE A, 706.02 OR 707.33; OR 36" TYPE A, 707.01 (ALUMINIZED) OR 707.21 (CULVERT HAS BEEN UPSIZED ONE SIZE TO ALLOW FUTURE LINING)

- NOTES:
- 1) SEE CULVERT DETAILS FOR DRIVE PIPE INFORMATION
  - 2) FOR SERVICE ROAD DETAILS SEE SHEET P.69
  - 3) FOR D-10 DETAILS SEE SHEET P.73



PLAN & PROFILE CR 185  
 STA. 122+80 TO STA. 128+40



CROSS SECTIONS - US 24  
 STA. 843+00 TO STA. 844+00

DESIGN AGENCY



DESIGNER

MTH

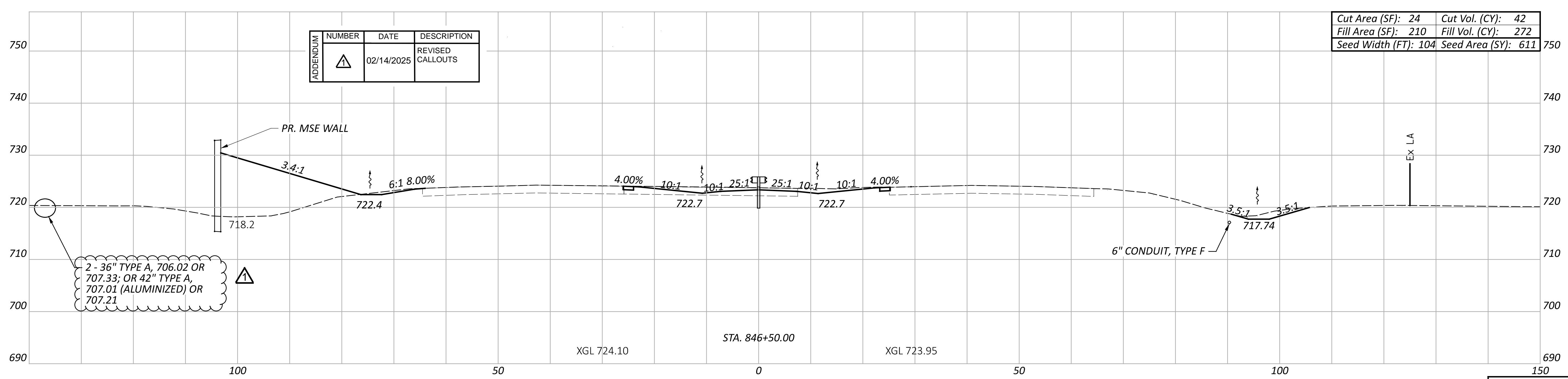
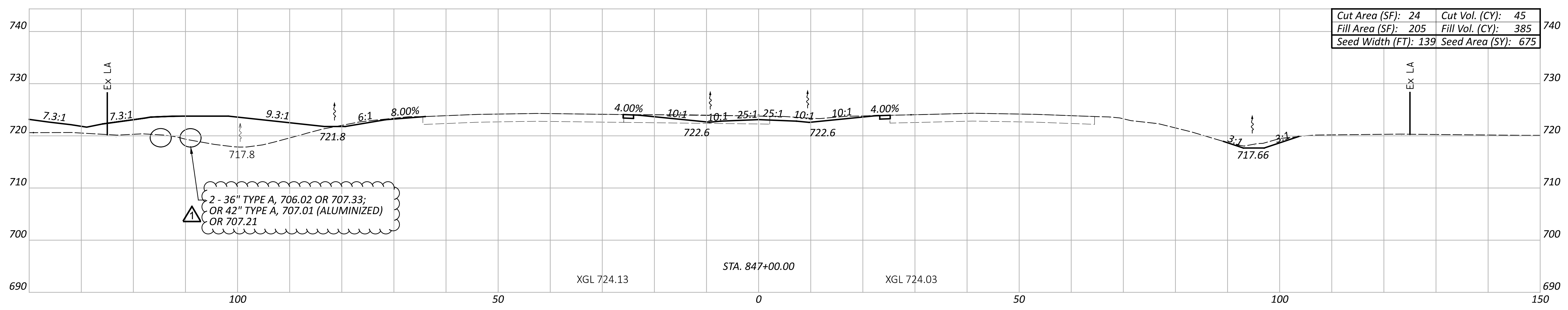
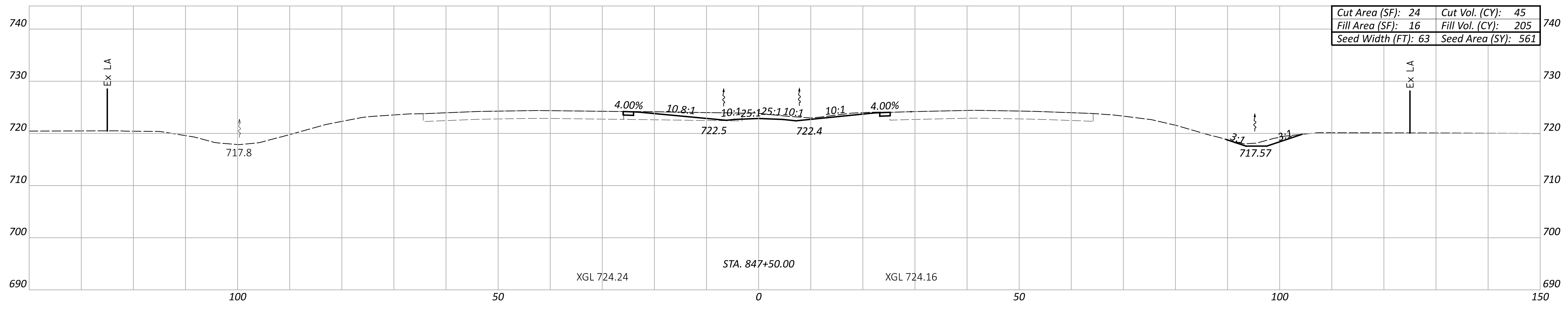
REVIEWER

JMB 10/28/24

PROJECT ID

115840

Sheet Totals			115840	
Seeding	Cut	Fill	SHEET	TOTAL
1564	79	593	P.34	143



CROSS SECTIONS - US 24  
 STA. 846+50 TO STA. 847+50

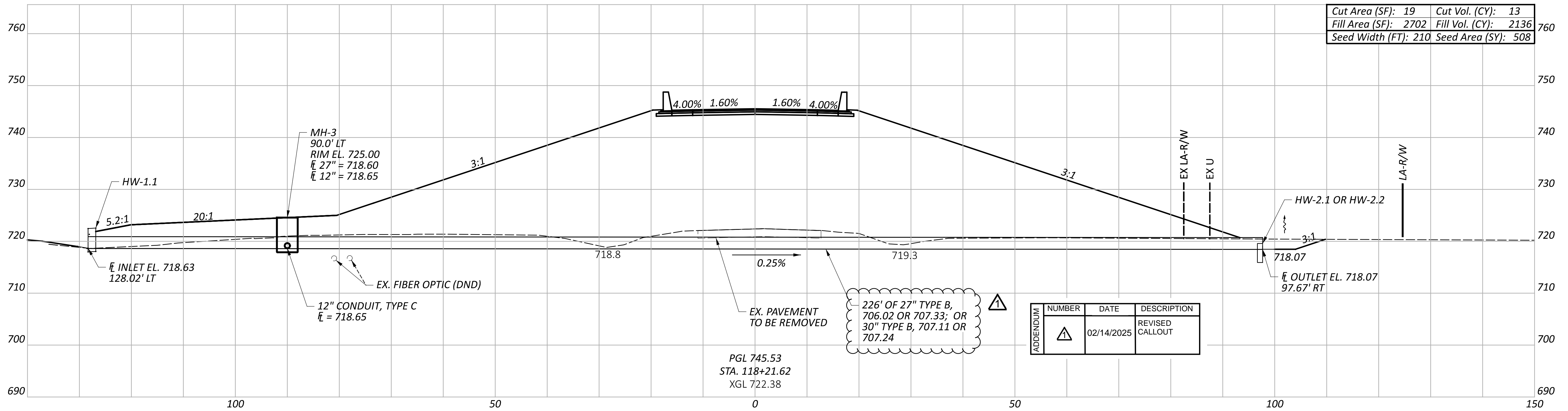
DESIGN AGENCY  
  
 a RJB company

DESIGNER  
 MTH

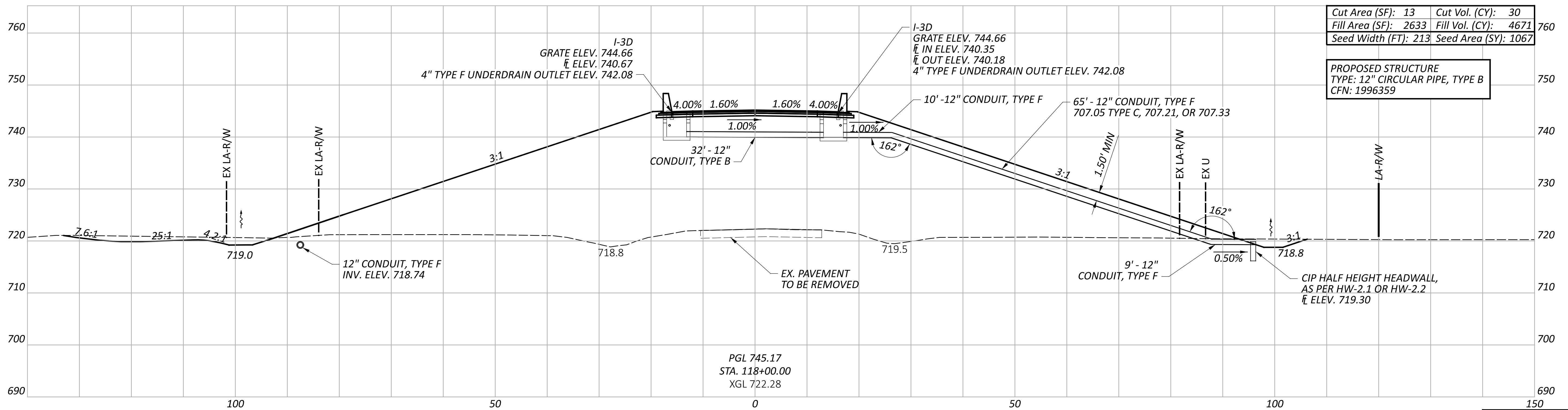
REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

Sheet Totals			115840	
Seeding	Cut	Fill	SHEET	TOTAL
1847	132	862	P.37	143



APPENDIX	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUT



PROPOSED STRUCTURE  
 TYPE: 12" CIRCULAR PIPE, TYPE B  
 CFN: 1996359

CROSS SECTIONS - C.R. 185  
 STA. 118+00 TO STA. 118+21.62

DESIGN AGENCY  
  
 a RIB company

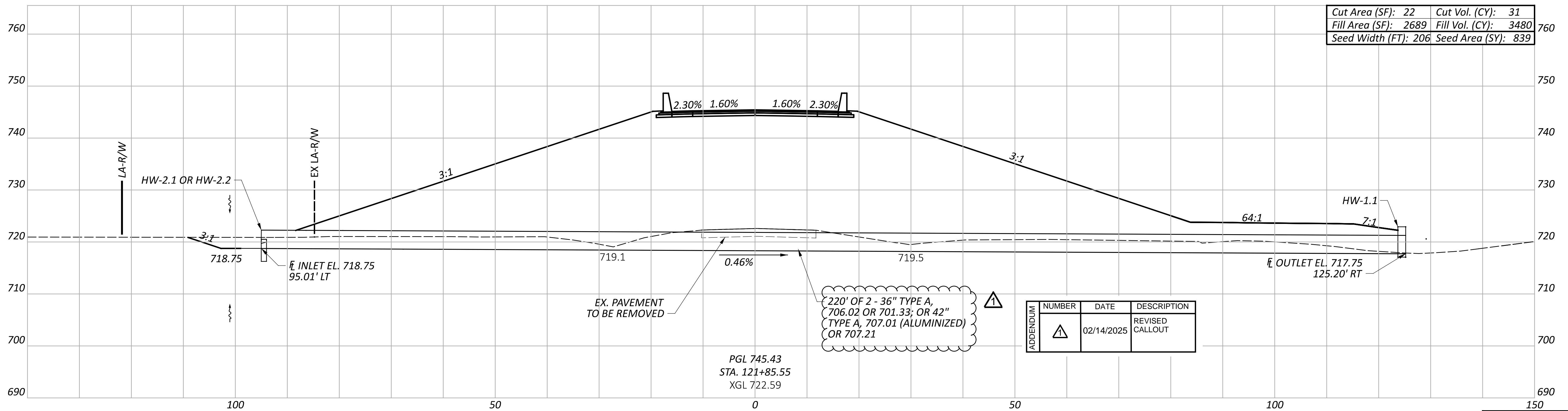
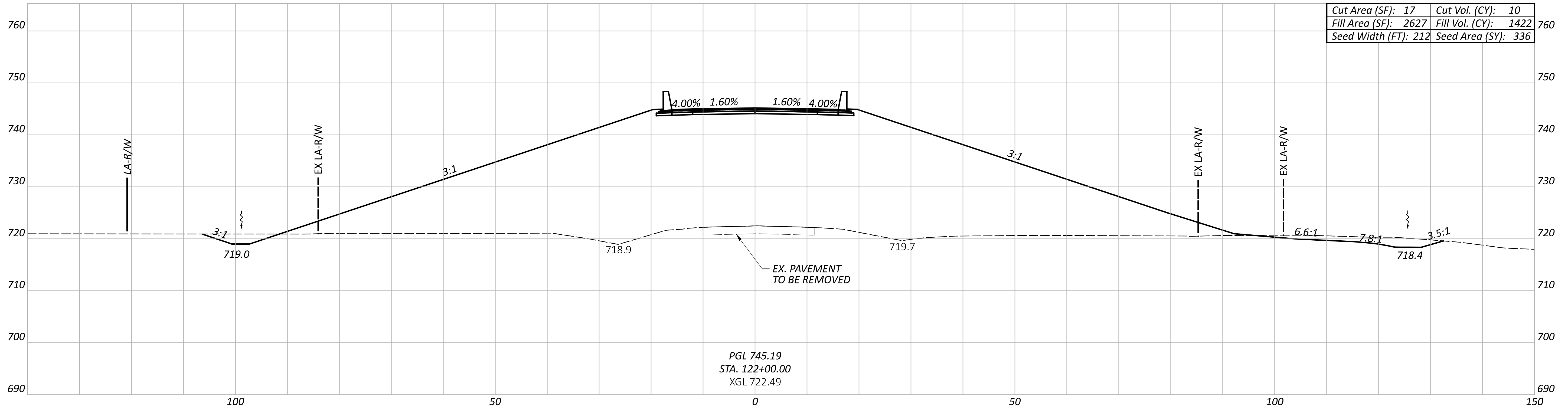
DESIGNER  
 TAS

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

Sheet Totals			115840
Seeding	Cut	Fill	SHEET TOTAL
1575	43	6806	P.54 143





220' OF 2 - 36" TYPE A,  
 706.02 OR 701.33; OR 42"  
 TYPE A, 707.01 (ALUMINIZED)  
 OR 707.21

APPENDIX	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUT

Sheet Totals			115840	
Seeding	Cut	Fill	SHEET	TOTAL
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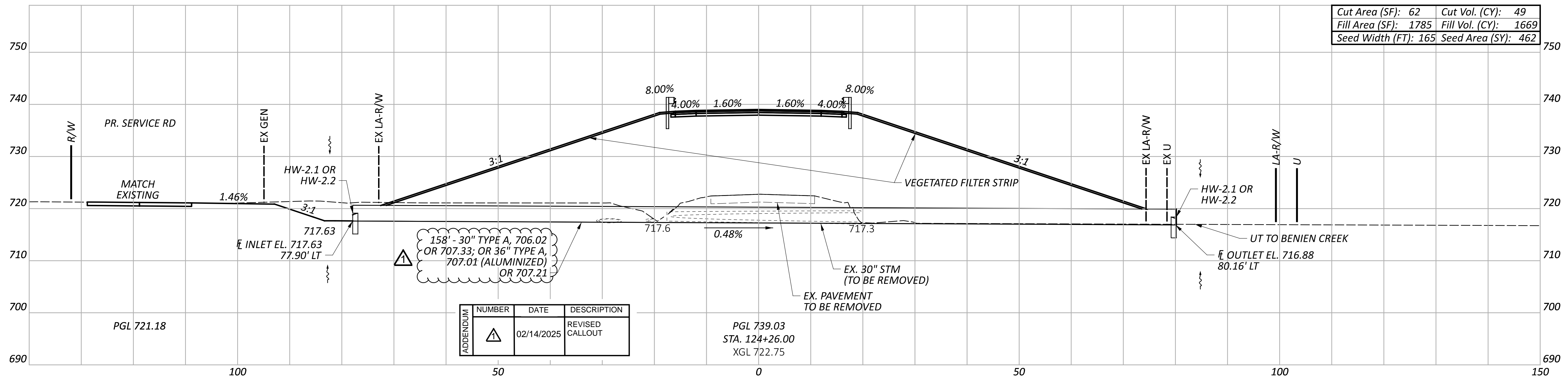
CROSS SECTIONS - C.R. 185  
 STA. 121+85.55 TO STA. 122+00

DESIGN AGENCY  
**PATRICK**  
 a ROR company

DESIGNER  
 TAS

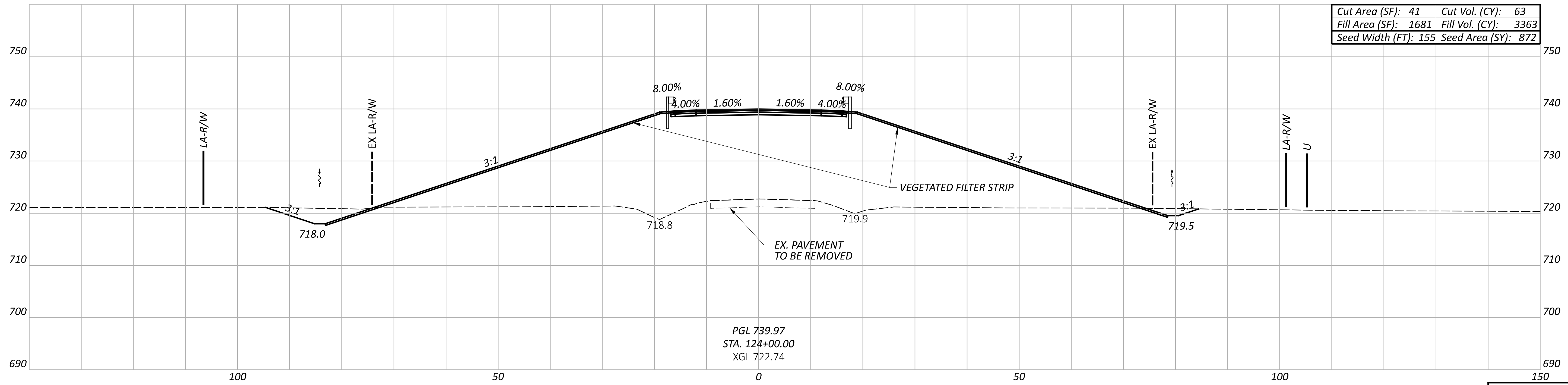
REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840



APPENDIX	NUMBER	DATE	DESCRIPTION
▲	02/14/2025	REVISED	CALLOUT

PGL 739.03  
 STA. 124+26.00  
 XGL 722.75



PGL 739.97  
 STA. 124+00.00  
 XGL 722.74

CROSS SECTIONS - C.R. 185  
 STA. 124+00 TO STA. 124+26

DESIGN AGENCY



DESIGNER

TAS

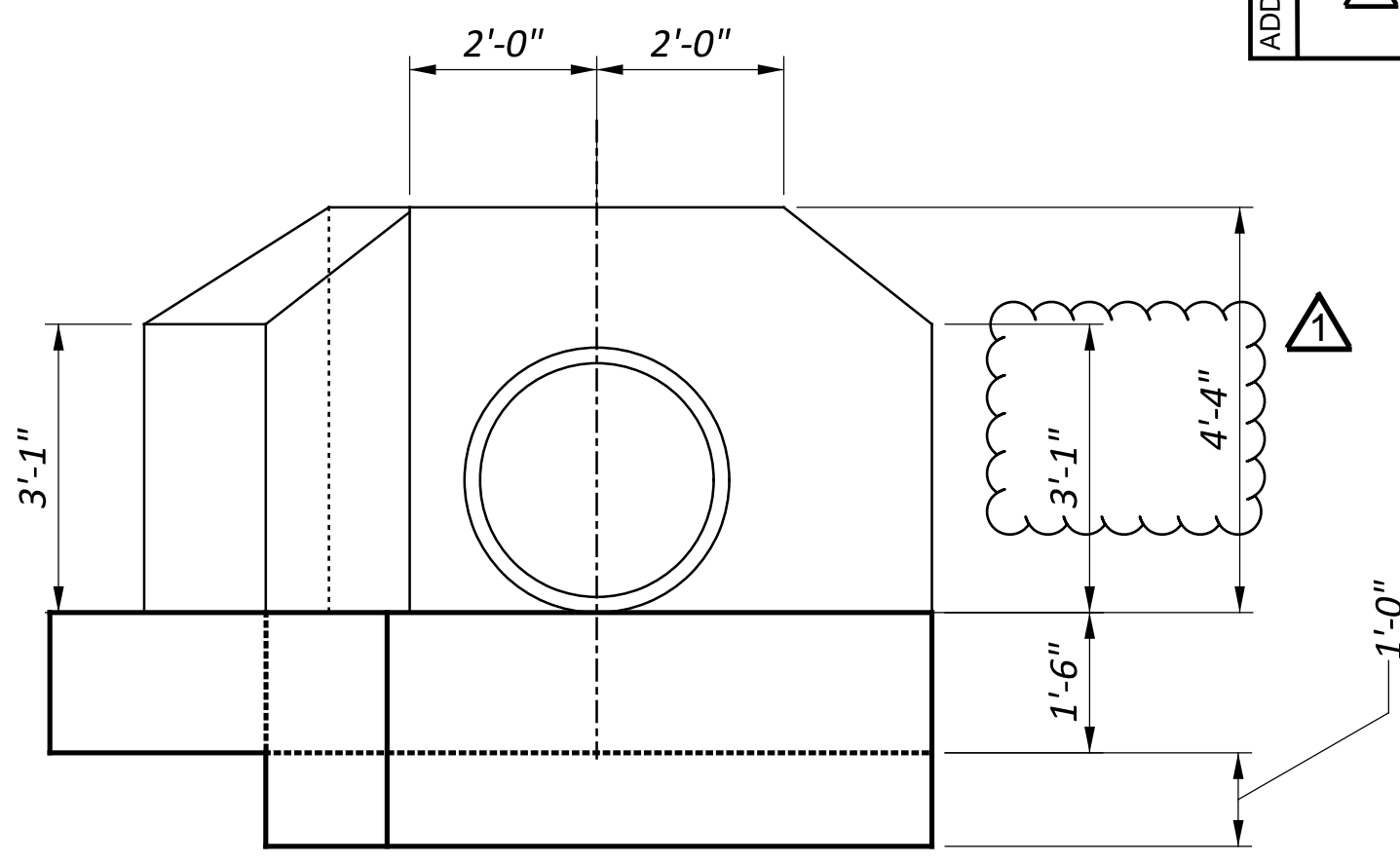
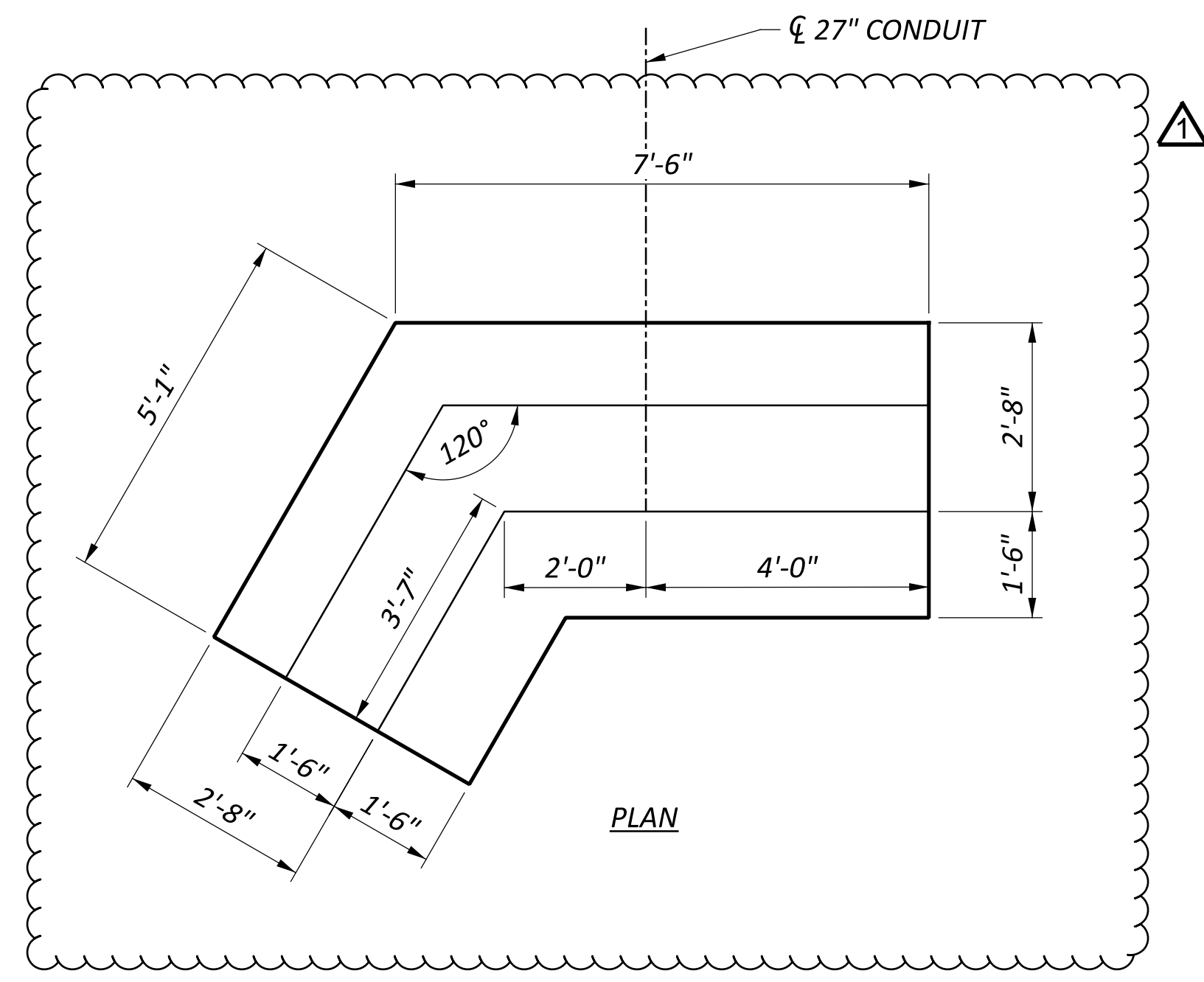
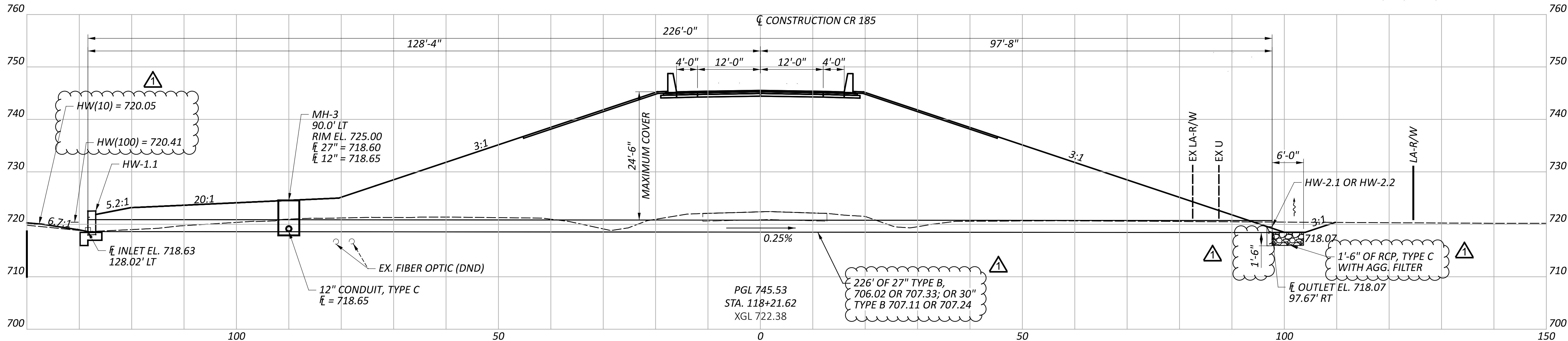
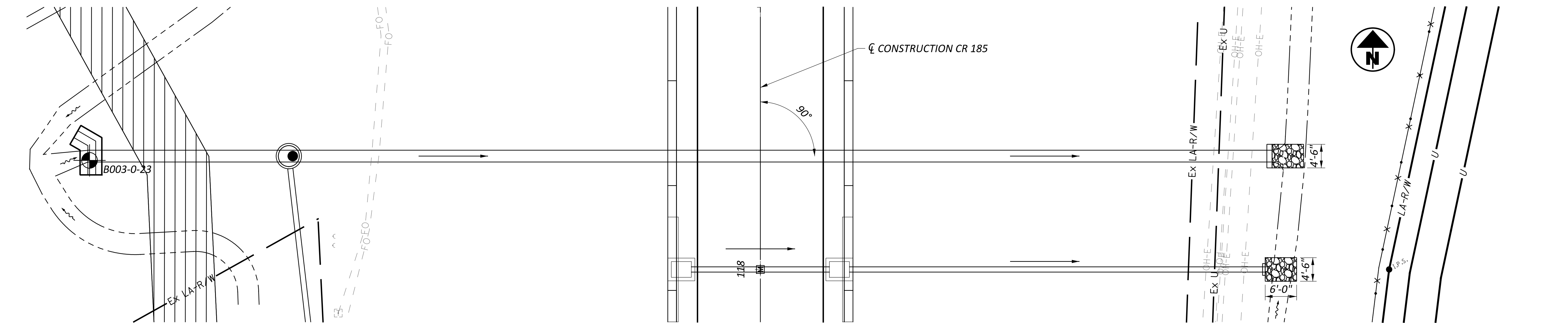
REVIEWER

JMB 10/28/24

PROJECT ID

115840

Sheet Totals			TOTAL
Seeding	Cut	Fill	P.59
1334	112	5032	143



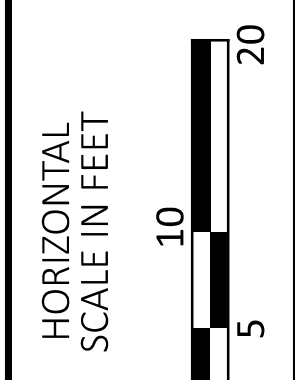
APPENDIX	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CULVERT INFORMATION

HYDRAULIC DATA			
DRAINAGE AREA =	6.36 ACRES		
Q (10) =	6.25 CFS	V (10) = 4.51 FT/S	HW (10) = 720.05 FT
Q (100) =	9.18 CFS	V (100) = 5.09 FT/S	HW (100) = 720.41 FT
ORDINARY HIGH WATER MARK:	718.63 FT		
DESIGN SERVICE LIFE:	75 YEARS		
ABRASION LEVEL:	1		
pH:	7.6		

PROPOSED STRUCTURE	
TYPE:	27" CONDUIT, TYPE B, 706.02 OR 707.33; OR 30" TYPE B, 707.11 OR 707.24
SKEW:	0° L.F.
ALIGNMENT:	TANGENT
CFN:	1996358

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
601	1.50	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER
602	5.46	CY	CONCRETE MASONRY
611	226	FT	27" CONDUIT, TYPE B, 706.02 OR 707.33; OR 30" TYPE B, 707.11 OR 707.24

NOTES:  
 FOR ADDITIONAL DETAILS SEE SCD HW-1.1  
 QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY



CULVERT DETAILS  
 STA. 118+21.62

DESIGN AGENCY  
**PATRICK**  
 a RIR company

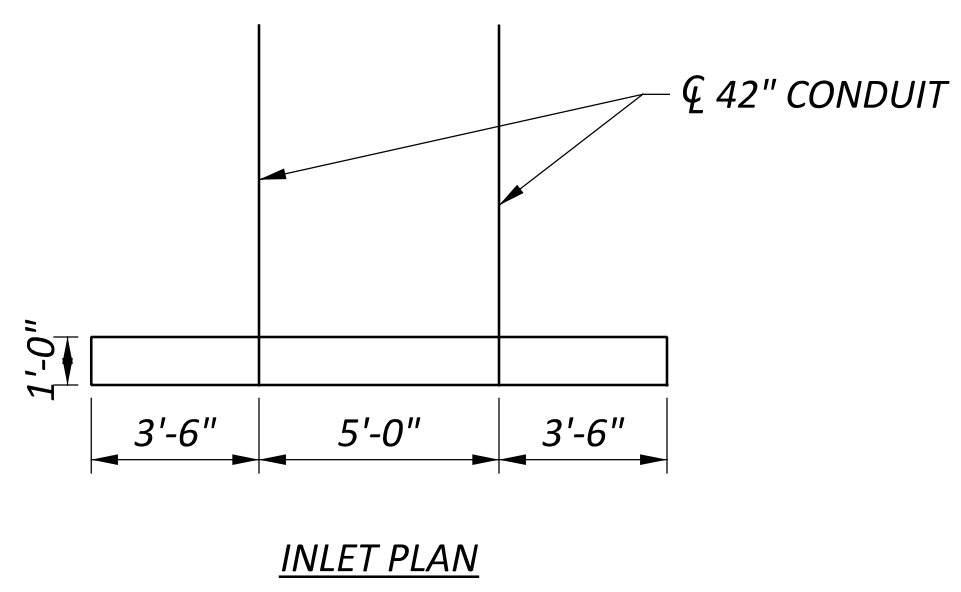
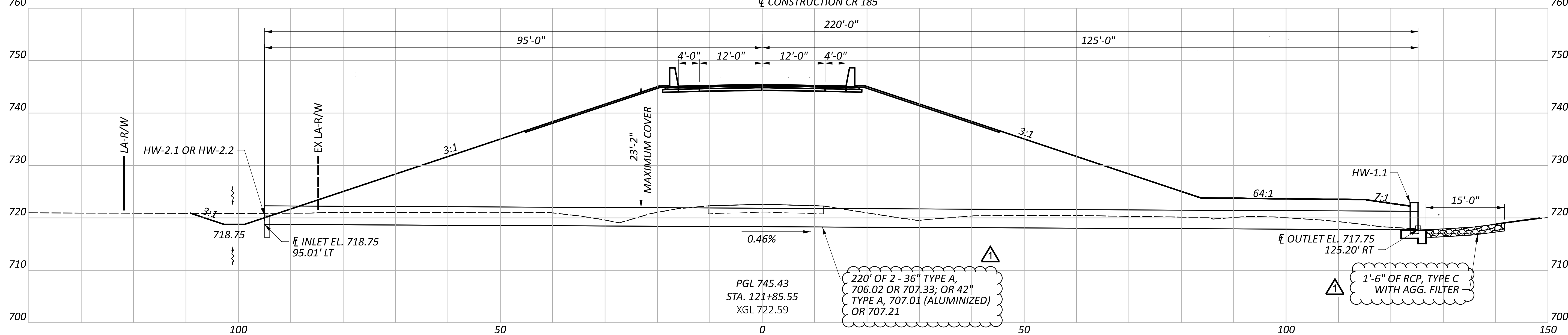
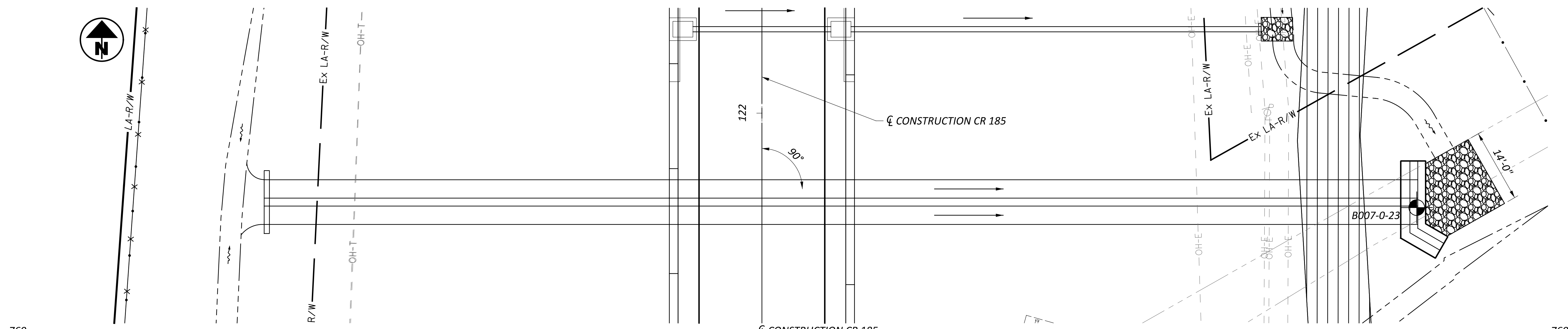
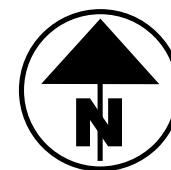
DESIGNER  
 TAS

REVIEWER  
 JMB 10/28/24

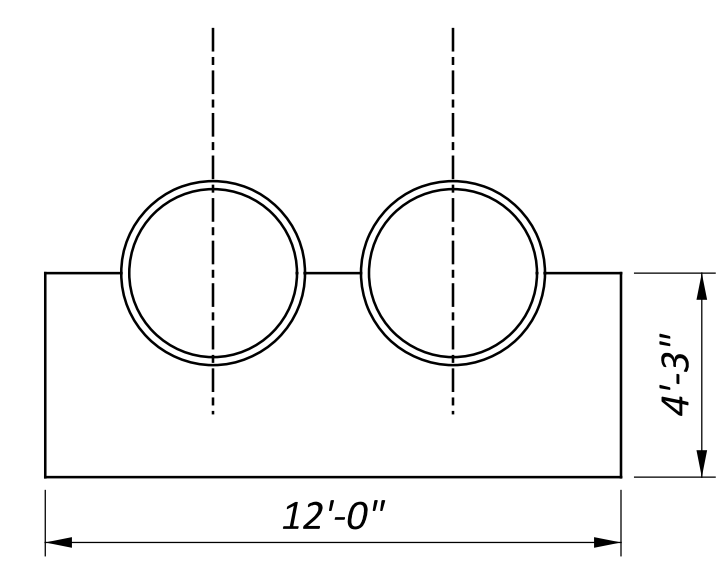
PROJECT ID  
 115840

SUBSET	TOTAL
1	3

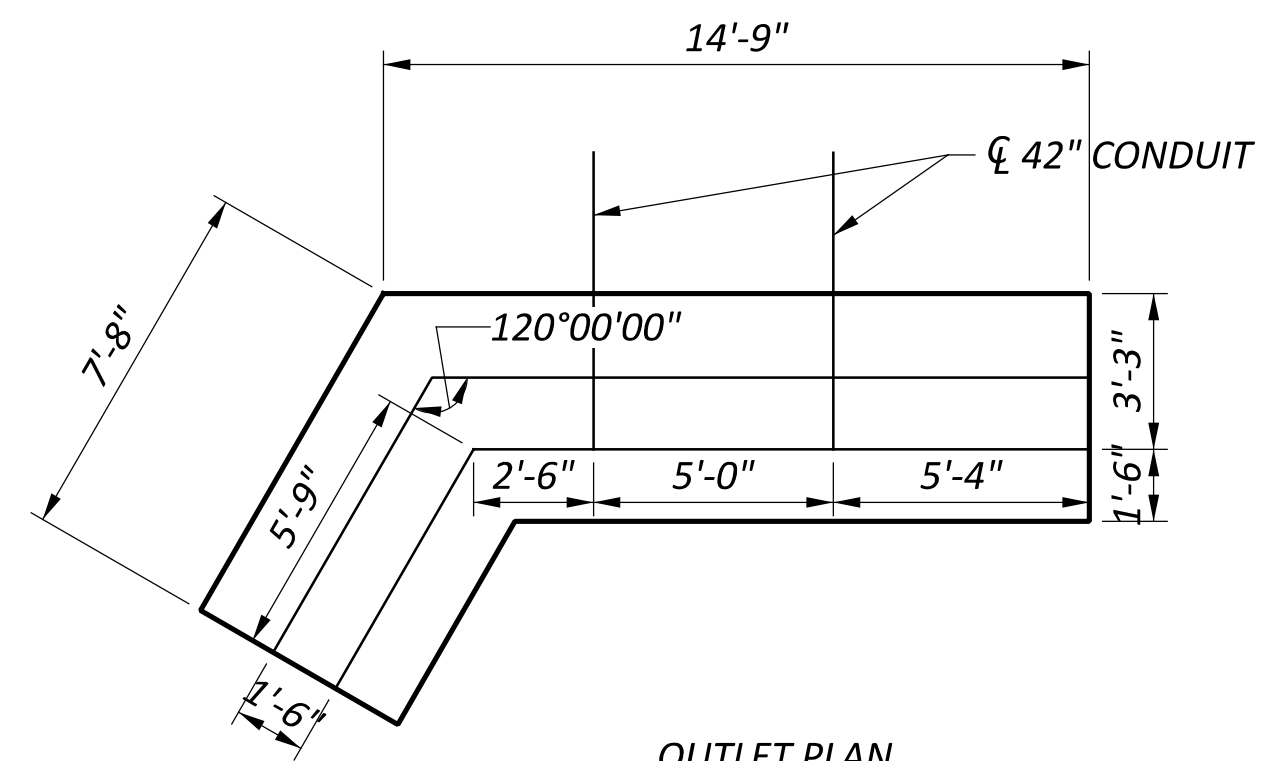
SHEET	TOTAL
P.72	143



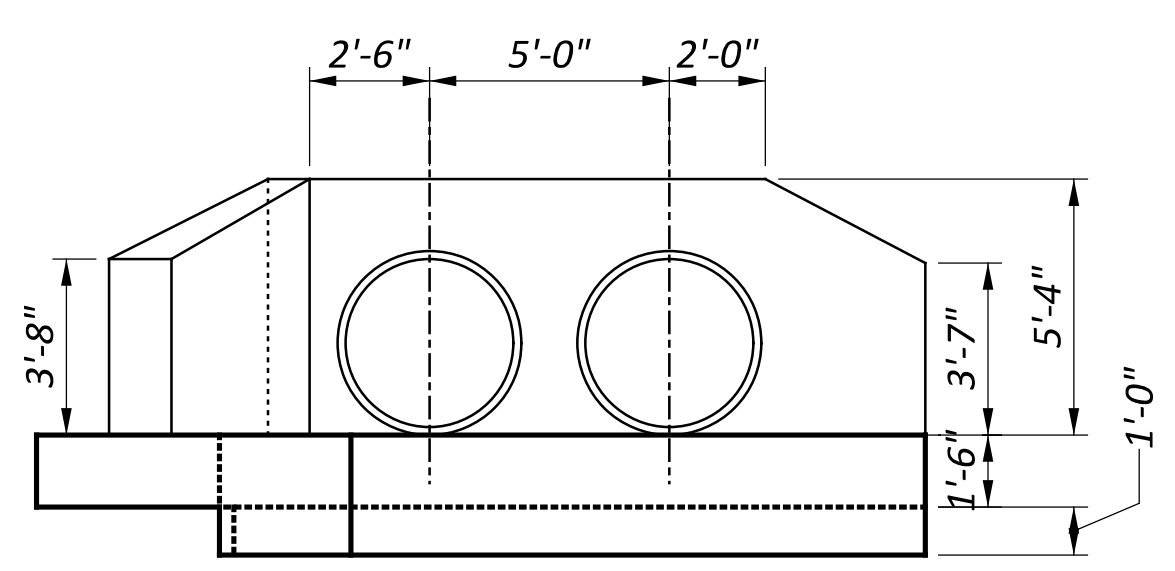
INLET PLAN



INLET ELEVATION



OUTLET PLAN



OUTLET ELEVATION

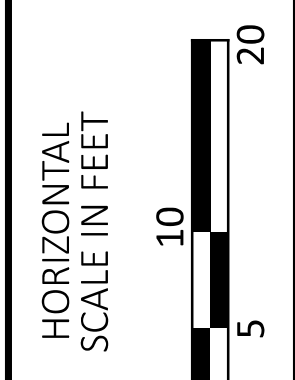
APPENDIX	NUMBER	DATE	DESCRIPTION
	▲	02/14/2025	REVISED CULVERT INFORMATION

NOTES:  
 FOR ADDITIONAL DETAILS SEE SCD HW-1.1  
 QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY

HYDRAULIC DATA		
DRAINAGE AREA =	9.18 ACRES	
Q (10) =	8.03 CFS	V (10) = 3.75 FT/S HW (10) = 719.70 FT
Q (100) =	11.91 CFS	V (100) = 4.69 FT/S HW (100) = 719.93 FT
ORDINARY HIGH WATER MARK:	718.75 FT	
DESIGN SERVICE LIFE:	75 YEARS	
ABRASION LEVEL:	1	
pH:	7.6	

PROPOSED STRUCTURE	
TYPE:	TWO - 36" CONDUIT, TYPE A, 706.02 OR 707.33; OR 42" TYPE A, 707.01 (ALUMINIZED) OR 707.21
SKEW:	0°
ALIGNMENT:	TANGENT
CFN:	1996360 & 1996361

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
601	11.67	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER
602	12.00	CY	CONCRETE MASONRY
611	440	FT	36" CONDUIT, TYPE A, 706.02 OR 707.33; OR 42" TYPE A, 707.01 (ALUMINIZED) OR 707.21



CULVERT DETAILS  
 STA. 121+85.55

DESIGN AGENCY  
**PATRICK**  
 a RIR company

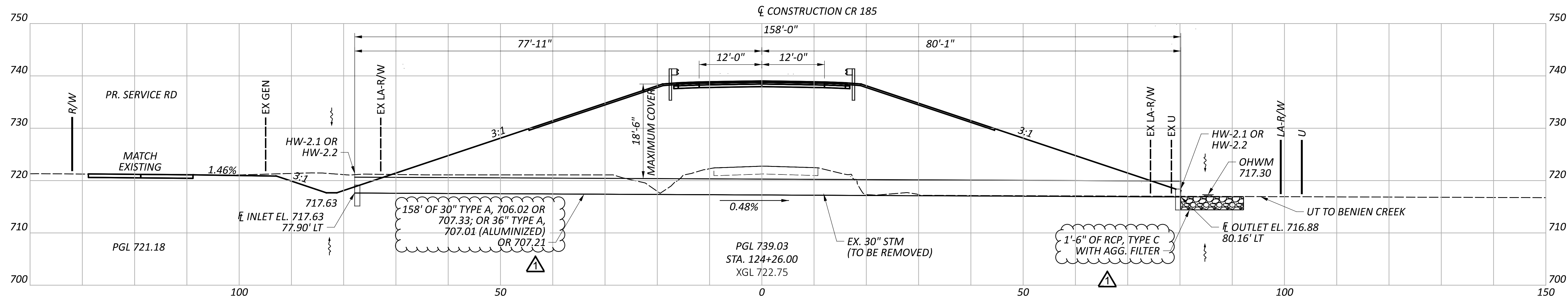
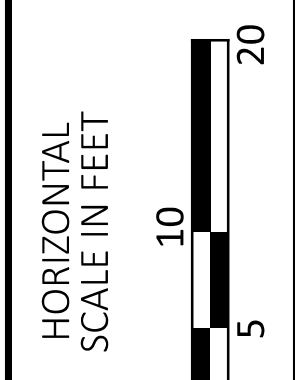
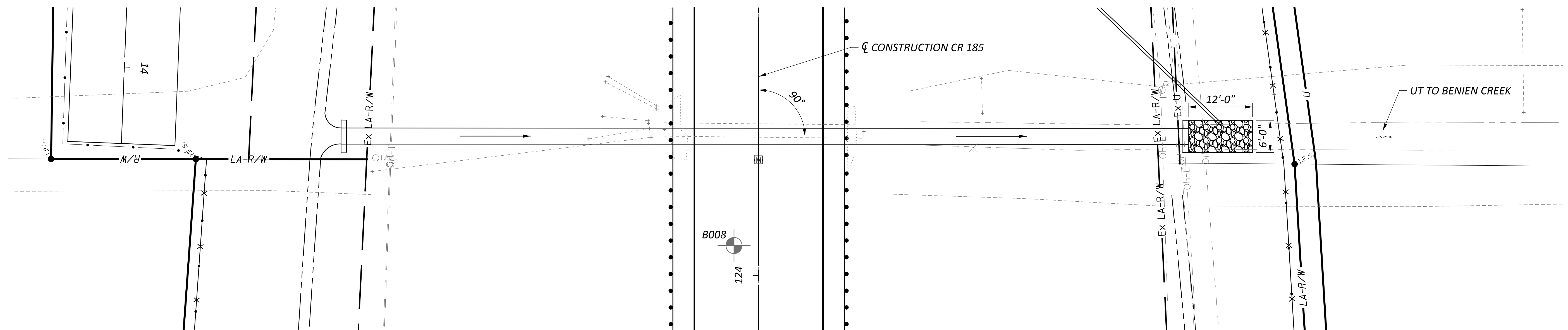
DESIGNER  
 TAS

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

SUBSET	TOTAL
2	3

SHEET	TOTAL
P.73	143



**CULVERT DETAILS**  
**STA. 124+26.00**

HYDRAULIC DATA	
DRAINAGE AREA =	24.61 ACRES
Q (10) =	11.91 CFS
Q (100) =	18.09 CFS
ORDINARY HIGH WATER MARK:	717.63 FT
DESIGN SERVICE LIFE:	75 YEARS
ABRASION LEVEL:	1
pH:	7.6

PROPOSED STRUCTURE	
TYPE:	30" CONDUIT, TYPE A, 706.02 OR 707.33; OR 36" TYPE A, 707.01 (ALUMINIZED) OR 707.21
SKEW:	0° L.F.
ALIGNMENT:	TANGENT
CFN:	1996363

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
601	4	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER
602	1.52	CY	CONCRETE MASONRY
611	158	FT	30" CONDUIT, TYPE A, 706.02 OR 707.33; OR 36" TYPE A, 707.01 (ALUMINIZED) OR 707.21

ADDENDUM	NUMBER	DATE	DESCRIPTION
	1	02/14/2025	REVISED CULVERT INFORMATION

NOTE:  
 QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY

DESIGN AGENCY  
**PATRICK**  
 a RIR company

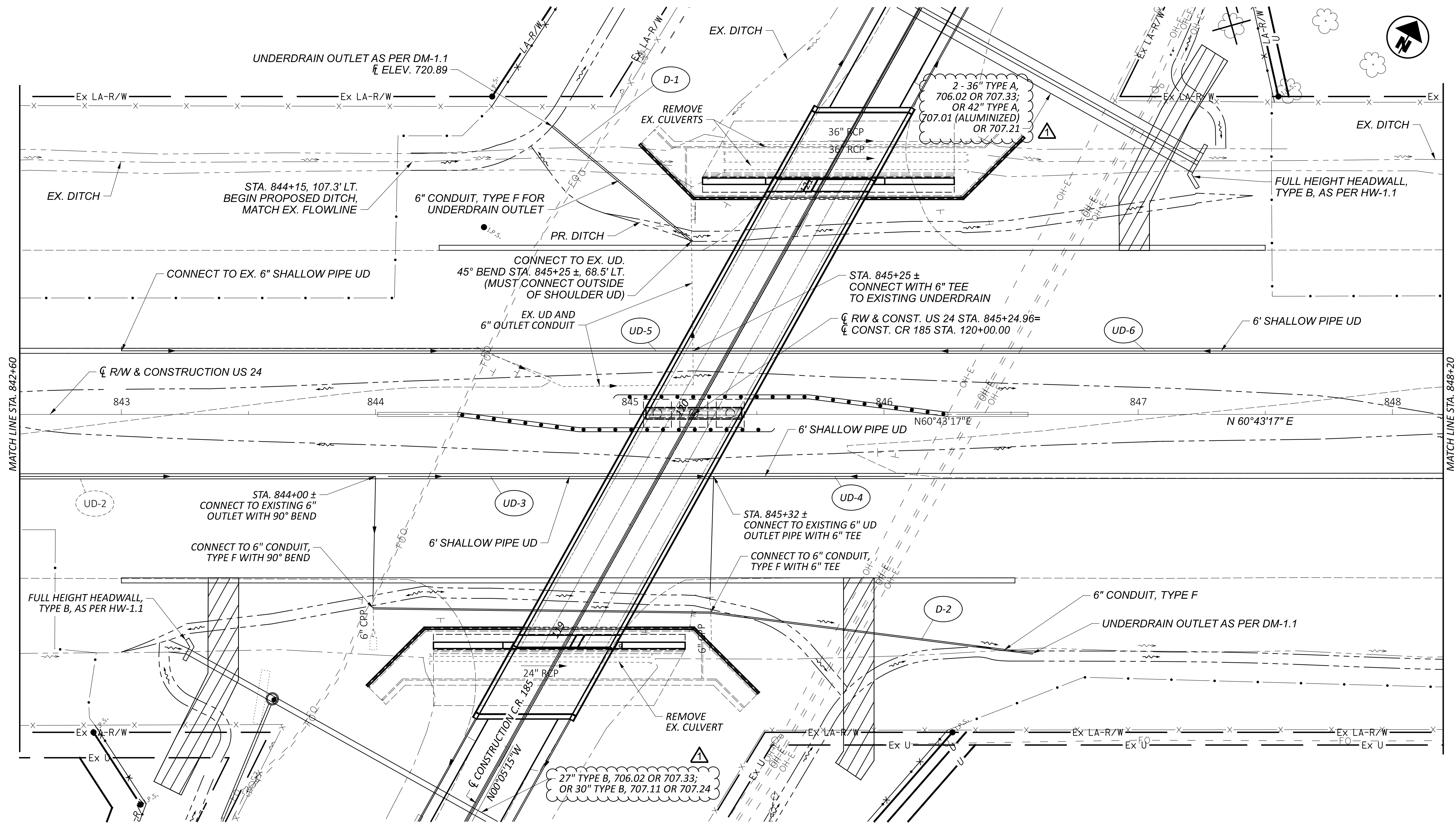
DESIGNER  
 TAS

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

SUBSET	TOTAL
3	3

SHEET	TOTAL
P.74	143



ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUTS

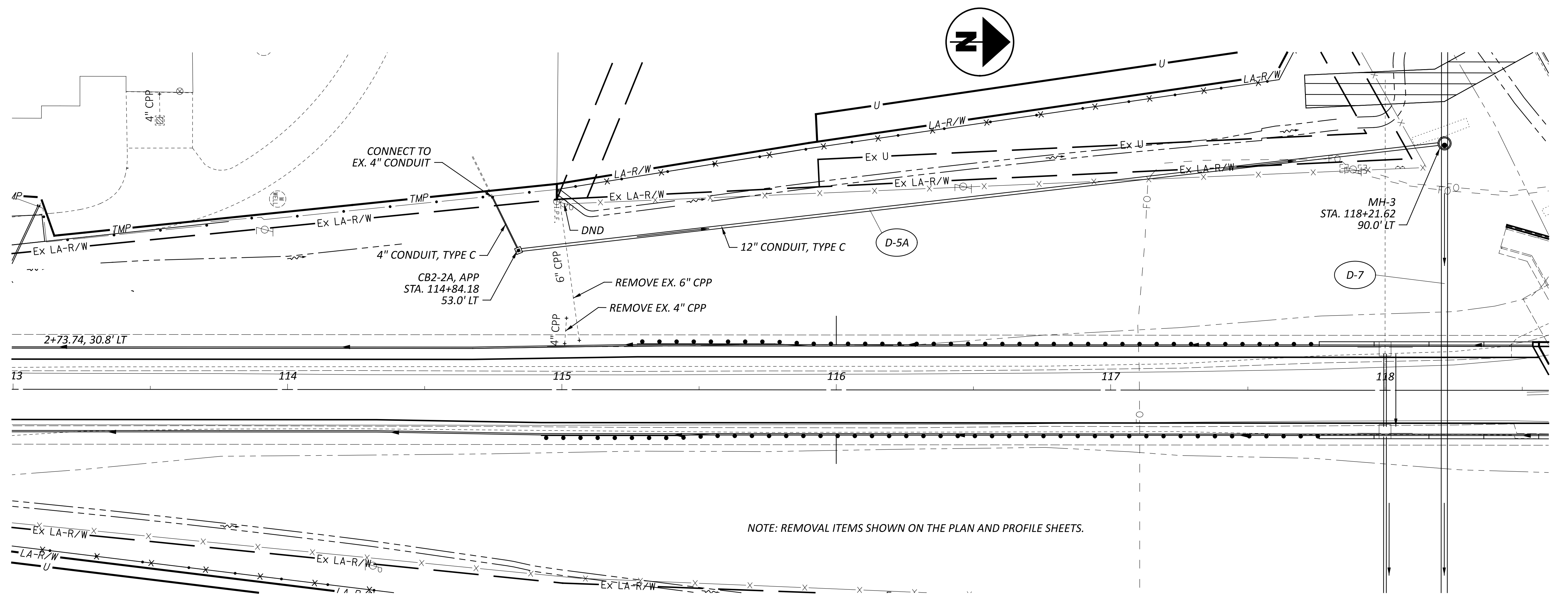


**DRAINAGE DETAIL US 24**  
**STA. 842+60 TO STA. 848+20**

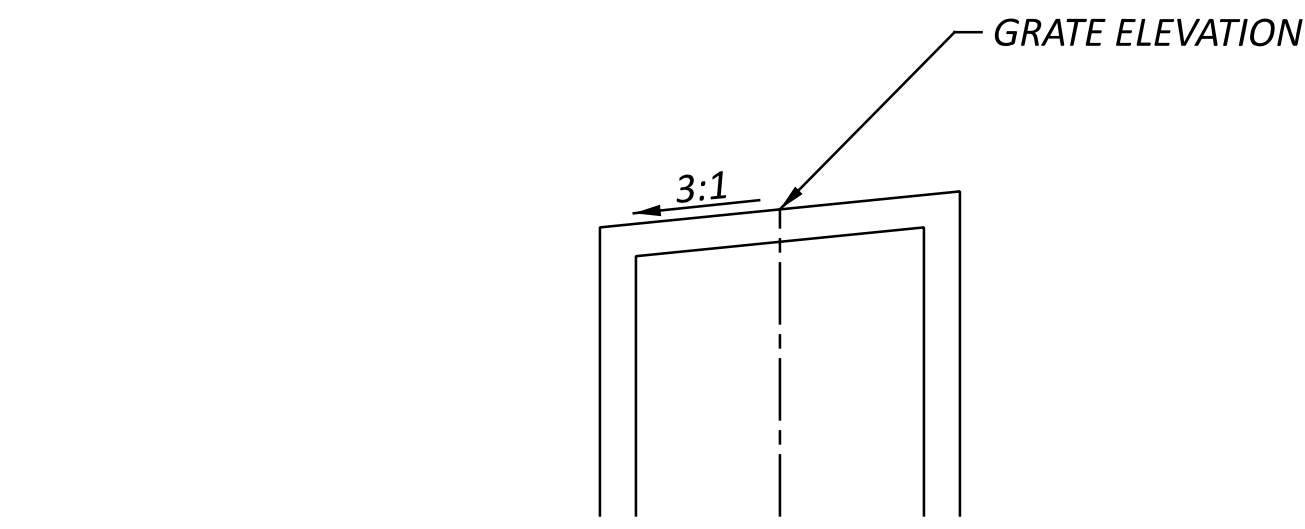
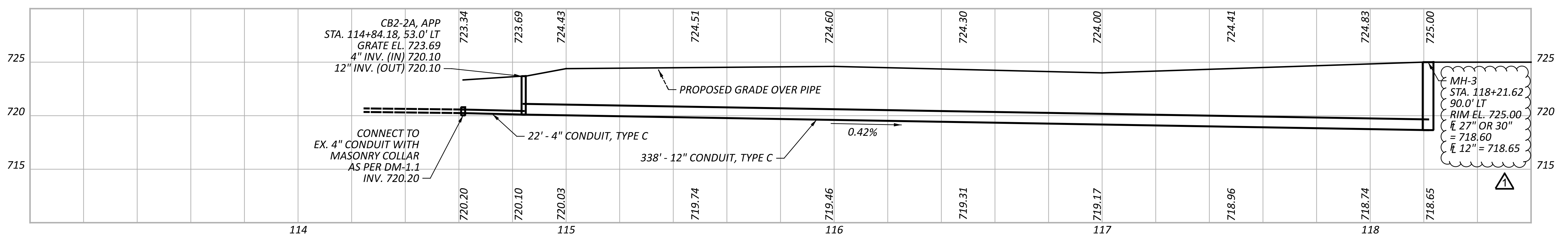
DESIGN AGENCY



DESIGNER	DJT
REVIEWER	JMB 10/28/24
PROJECT ID	115840
SHEET TOTAL	P.77 143

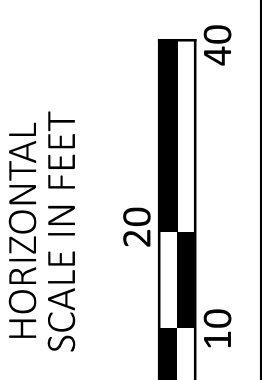


NOTE: REMOVAL ITEMS SHOWN ON THE PLAN AND PROFILE SHEETS.



GRATE DETAIL AT CB2-2A, APP AT STA. 114+84.18

ADDENDUM	NUMBER	DATE	DESCRIPTION
▲		02/14/2025	REVISED CALLOUT



DRAINAGE DETAIL CR 185  
 STA. 113+00 TO STA. 118+60

DESIGN AGENCY



DESIGNER  
 DJT

REVIEWER  
 JMB 10/28/24

PROJECT ID  
 115840

SHEET TOTAL  
 P.80 143





**PILES TO BEDROCK**

DRIVE PILES TO REFUSAL ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE OBTAINED WHEN THE PILE PENETRATION IS AN INCH OR LESS AFTER RECEIVING AT LEAST 20 BLOWS FROM THE PILE HAMMER. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL.

THE TOTAL FACTORED LOAD IS 181 KIPS PER PILE FOR THE FORWARD AND REAR ABUTMENT PILES. THE TOTAL FACTORED LOAD IS 267 KIPS PER PILE FOR THE PIER PILES.

**ABUTMENT PILES:**

HP10X42 PILES, 95 FEET LONG, ORDER LENGTH

**PIER PILES:**

HP10X42 PILES, 80 FEET LONG, ORDER LENGTH

**PILE DRIVING CONSTRAINTS**

PRIOR TO DRIVING ABUTMENT PILES TO REFUSAL ON BEDROCK, CONSTRUCT THE MSE WALL AND THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENT UP TO THE BOTTOM OF THE FOOTING FOR A MINIMUM DISTANCE OF 200-FT BEHIND EACH ABUTMENT. THE CONTRACTOR MAY PRE-DRIVE ABUTMENT PILES BEFORE CONSTRUCTING MSE WALLS. PRE-DRIVING CONSISTS OF INSTALLING THE ABUTMENT PILES INTO THE SOIL ONLY AS FAR AS NECESSARY SO THAT THE PILE WILL REMAIN VERTICAL DURING MSE WALL CONSTRUCTION. IF PRE-DRIVING PILES, INSTALL PILE SLEEVES AROUND PILES BEFORE CONSTRUCTING THE MSE WALL. PROVIDE AT LEAST 3-FT OF PILE ABOVE THE TOP OF THE PILE SLEEVE TO MEET THE REQUIREMENTS OF C&MS 507.09 REGARDING SPLICES. DO NOT DRIVE ABUTMENT PILES TO REFUSAL ON BEDROCK UNTIL AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND A 8 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. AFTER THE SPECIFIED WAITING PERIOD HAS ELAPSED, DRIVE ABUTMENT PILES TO REFUSAL ON BEDROCK. IN ORDER TO REMOVE ANY NEGATIVE SKIN FRICTION THAT HAS DEVELOPED DURING THE WAITING PERIOD, DRIVE EACH ABUTMENT PILE A DISTANCE OF AT LEAST 0.5-IN.

IF NOT PRE-DRIVING ABUTMENT PILES, INSTALL THE ABUTMENT PILES THROUGH PILE SLEEVES AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND THE SPECIFIED WAITING PERIOD HAS ELAPSED.

**ITEM SPECIAL—SETTLEMENT PLATFORMS**

**DESCRIPTION:**

THIS ITEM CONSISTS OF FURNISHING, CONSTRUCTING, AND MAINTAINING SETTLEMENT PLATFORMS AND OBTAINING SETTLEMENT READINGS AS REQUIRED BY THE PLANS OR AS DIRECTED BY THE ENGINEER. AT THE OPTION AND EXPENSE OF THE CONTRACTOR, ADDITIONAL SETTLEMENT PLATFORMS MAY BE INSTALLED AT LOCATIONS APPROVED BY THE ENGINEER. TAKE SETTLEMENT READINGS WEEKLY DURING CONSTRUCTION AND DURING ANY SPECIFIED WAITING PERIOD. PLOT THE READINGS ON GRAPH PAPER PRESENTING DEFORMATION (ON THE NEGATIVE Y-AXIS) AND FILL HEIGHT (ON THE POSITIVE Y-AXIS) VERSUS TIME (ON THE X-AXIS). IN ORDER TO CREATE THE GRAPH, USE THE SETTLEMENT PLATFORM SPREADSHEET LOCATED AT [HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/ENGINEERING/GEOTECHNICAL/GEOTECHNICAL\\_DOCUMENTS/BLANK SETTLEMENT READING PLOTS-ENGLISH.XLS](http://www.dot.state.oh.us/divisions/engineering/geotechnical/geotechnical_documents/blank_settlement_reading_plots-english.xls) IN THE OGE WEBSITE PUBLICATIONS AND DOCUMENTS SECTION. SEND A COPY OF EACH CUMULATIVE PLOT TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, ATTENTION: GEOTECHNICAL CONSTRUCTION ENGINEER, AFTER EACH SETTLEMENT READING IS RECORDED.

**MATERIALS:**

USE FOR THE BASE SOUND LUMBER SUCH AS 19MM (3/4-INCH) EXTERIOR GRADE PLYWOOD. THE PIPE SHALL BE 64MM (2-1/2-INCH) STANDARD BLACK PIPE WITH THREADED FITTINGS AS SHOWN ON THE PLANS. A STEEL PLATE 915MM X 915MM X 3.2MM (36" X 36" X 1/8") MAY BE SUBSTITUTED FOR THE LUMBER FOR THE PLATFORMS, AT THE CONTRACTOR'S OPTION.

**CONSTRUCTION METHODS:**

CONFORM THE PLATFORM TO THE DETAILS SHOWN ON THE PLANS. SET THE PLATFORM ON A LEVEL SURFACE. FIRMLY SECURE THE PIPE TO THE PLATFORM AND MAINTAIN IT IN A PLUMB POSITION DURING THE PLACEMENT OF THE EMBANKMENT. MARK THE PIPE AT INTERVALS TO FACILITATE MEASUREMENT OF THE DEPTH OF FILL. THE CONTRACTOR IS TO STOP WORK IN ANY LOCATION WHERE THE SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED. PLATFORMS OR PIPES DAMAGED OR DISPLACED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR PROPER CONDITION AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PROTECT SETTLEMENT PLATFORMS FROM CONSTRUCTION TRAFFIC/ACTIVITIES USING APPROPRIATE METHODS SUCH AS BARRICADES, CONES, GUARD-STAKES WITH HIGH VISIBILITY RIBBON, ETC. THE CONTRACTOR SHALL STOP WORK IN ANY LOCATION

**CONSTRUCTION METHODS (CONT.):**

WHERE THE SETTLEMENT PLATFORM HAS BEEN DISTURBED OR DAMAGED. PLATFORMS OR PIPES DAMAGED OR DISPLACED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR PROPER CONDITION.

PRIOR TO PAVING, CUT OFF THE TOP OF THE SETTLEMENT PLATFORM PIPE 600MM (TWO FEET) BELOW THE FINISHED SURFACE OF THE SUBGRADE OR FINISHED GROUND SURFACE, WHICHEVER IS APPLICABLE.

**WAITING PERIOD:**

IT IS ANTICIPATED THAT AFTER COMPLETION OF THE MSE WALL CONSTRUCTION, A 8 CALENDAR-DAY WAITING PERIOD WILL BE REQUIRED TO ALLOW FOR THE SETTLEMENT OF THE EXISTING FILL AND THE NATIVE SOILS BENEATH THE PROPOSED MSE WALL. THE WAITING PERIOD SHALL NOT BE CONSIDERED TO BEGIN UNTIL ALL FILL FOR THE LOADING HAS BEEN PLACED. AT ANY LOCATION OF THE PROJECT, THE LOADING FILL SHALL CONSIST OF THE PROPOSED EMBANKMENT CONSTRUCTED TO THE ENTIRE PROPOSED LATERAL EXTENTS AND TO WITHIN ONE FOOT OF THE PROPOSED VERTICAL EXTENTS.

NO PILE INSTALLATION AND NO CONSTRUCTION OF THE ABUTMENT FOOTINGS, COPING, OR BARRIER AND MOMENT SLABS, ETC. OR PAVING OF ROADWAYS SHALL BEGIN UNTIL CONFIRMATION HAS BEEN RECEIVED FROM THE ENGINEER THAT THE CRITERIA TO END THE WAITING PERIOD HAVE BEEN MET.

**WAITING PERIOD CRITERIA:**

THE ENGINEER WILL CONSIDER THE WAITING PERIOD COMPLETE WHEN CONSECUTIVE SETTLEMENT READINGS, RECORDED AFTER EMBANKMENT CONSTRUCTION IS COMPLETE AND AT LEAST ONE WEEK (168 HOURS) APART, RESULT IN ELEVATION DIFFERENCES EQUAL TO OR LESS THAN 1/8 INCH.

**METHOD OF MEASUREMENT:**

THE NUMBER OF SETTLEMENT PLATFORMS TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF SETTLEMENT PLATFORMS COMPLETED, MAINTAINED, AND ACCEPTED BY THE ENGINEER.

**BASIS OF PAYMENT:**

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE EACH FOR "ITEM SPECIAL – SETTLEMENT PLATFORM" WHICH IS COMPENSATION FOR CONSTRUCTING MAINTAINING, AND MONITORING THE SETTLEMENT PLATFORMS INCLUDING FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. PAYMENT SHALL NOT BE MADE FOR SETTLEMENT PLATFORMS WHICH BECOME USELESS DUE TO DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.

THE ESTIMATED SETTLEMENT IS 1.44 INCHES. THE ESTIMATED SETTLEMENT PERIOD IS 8 CONSECUTIVE DAYS AFTER THE FINAL LIFT OF EMBANKMENT HAS BEEN PLACED.

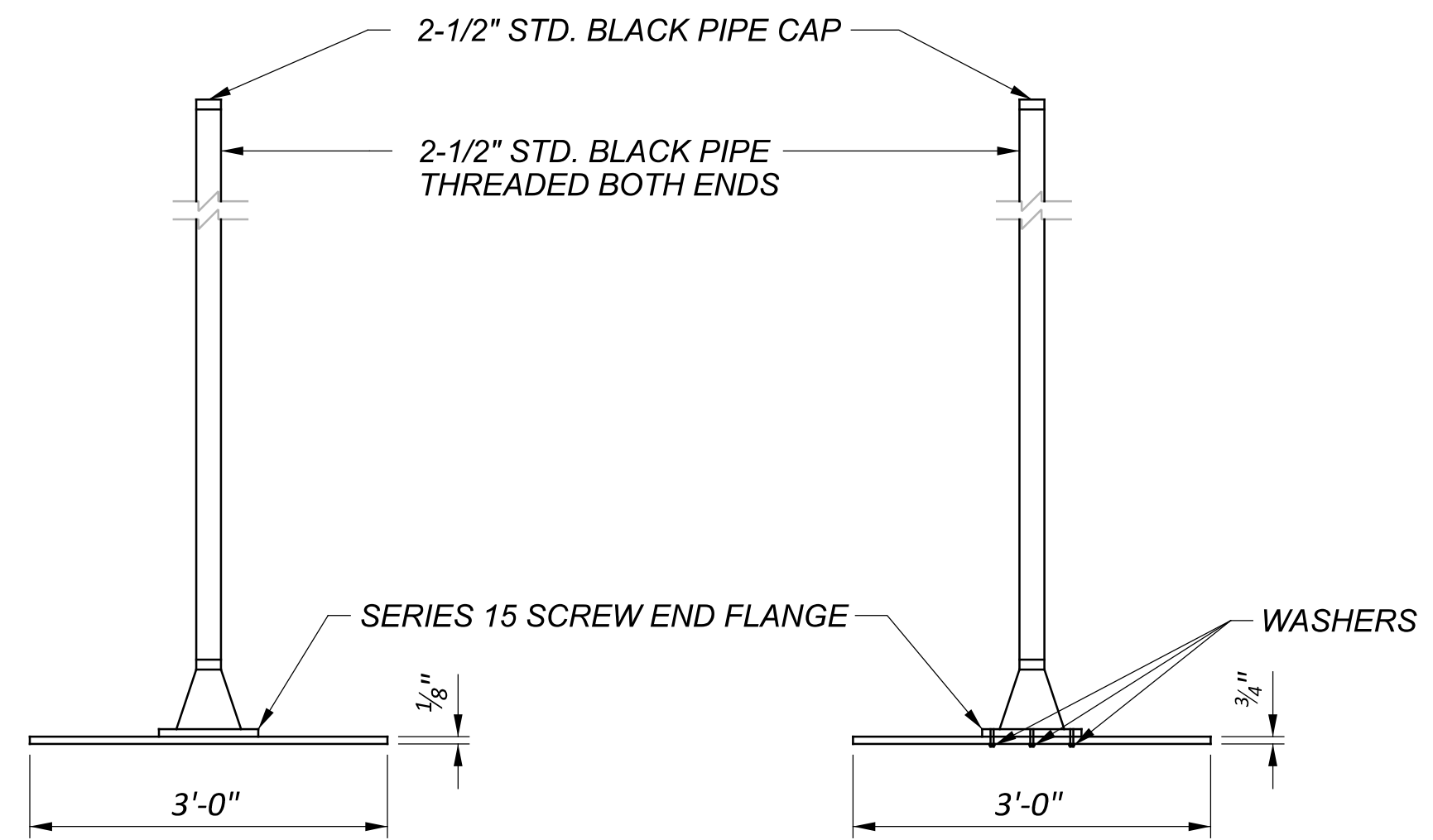
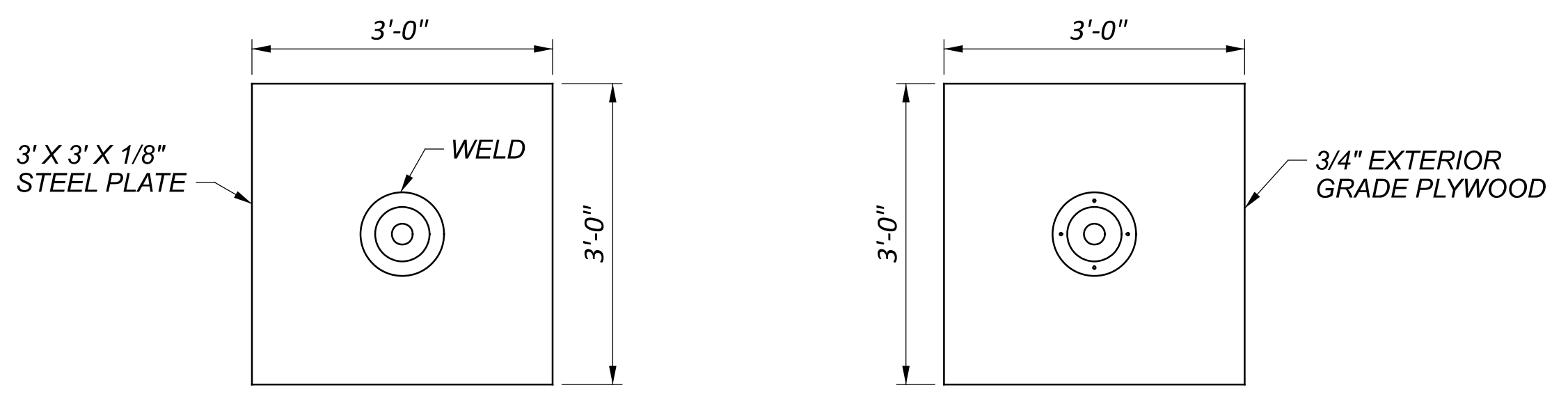
**SETTLEMENT PLATFORMS SHALL BE PLACED AT THE FOLLOWING LOCATIONS:**

SETTLEMENT PLATFORM DESIGNATION	ALIGNMENT	STATION	OFFSET	ESTIMATED SETTLEMENT
SP-1	CR 185	118+95	8' LT	1.44 INCHES
SP-2	CR 185	118+90	8' RT	1.44 INCHES
SP-3	CR 185	121+05	8' LT	1.16 INCHES
SP-4	CR 185	121+10	8' RT	1.16 INCHES

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK:  
 ITEM 203 SETTLEMENT PLATFORM 4 EACH

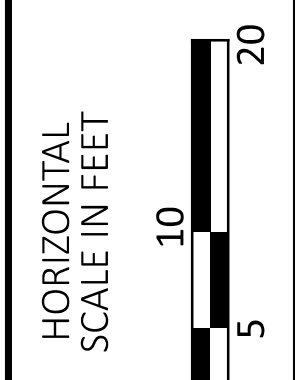
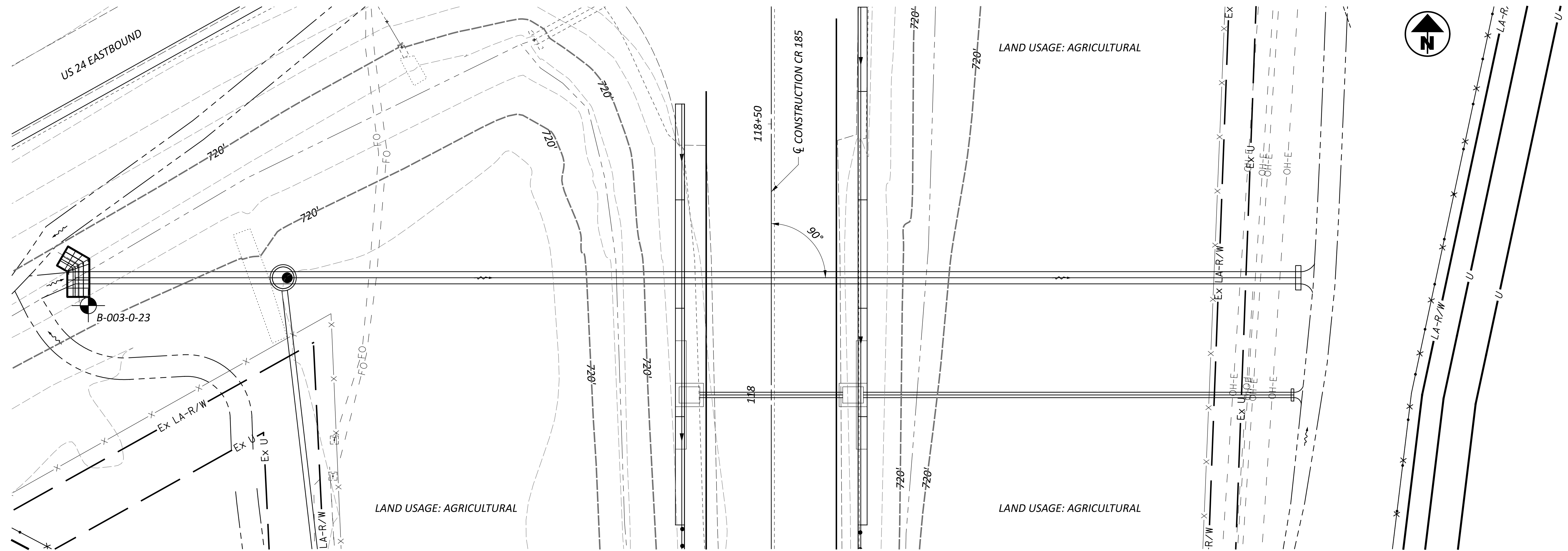
ADDENDUM	NUMBER	DATE	DESCRIPTION
	▲	02/14/2025	REVISED NOTE

**SETTLEMENT PLATFORM NOT TO SCALE**

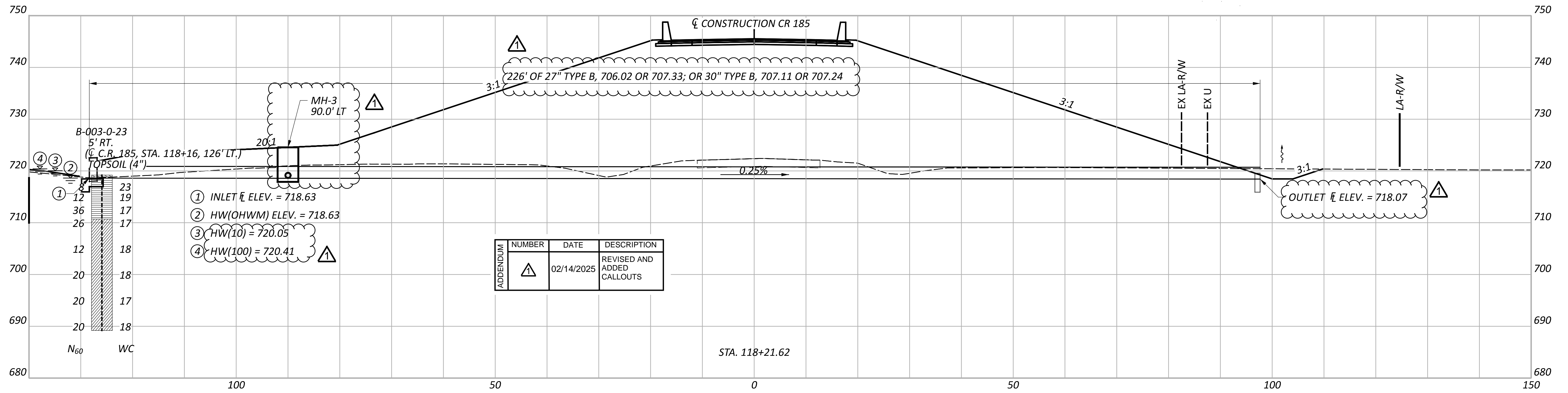


**NOTES:**

1. SETTLEMENT PLATFORMS SHALL BE PLACED AT THE LOCATION INDICATED IN THE PLANS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. CONTRACTOR HAS OPTION OF USING EITHER STEEL OR PLYWOOD PLATFORM BASE.
3. CONTRACTOR SHALL FURNISH MATERIALS AND LABOR TO EXTEND PIPE UP THROUGH ENTIRE FILL.
4. SETTLEMENT PLATFORMS SHALL BE ANCHORED BY STAKES DRIVEN AT EACH CORNER TO PREVENT OVERTURNING.




GEOTECHNICAL PROFILE - ROADWAY  
 CULVERT NO. 1996358



- ① INLET ELEV. = 718.63
- ② HW(OHWM) ELEV. = 718.63
- ③ HW(10) = 720.05
- ④ HW(100) = 720.41

APPENDIX	NUMBER	DATE	DESCRIPTION
△		02/14/2025	REVISED AND ADDED CALLOUTS

DESIGN AGENCY



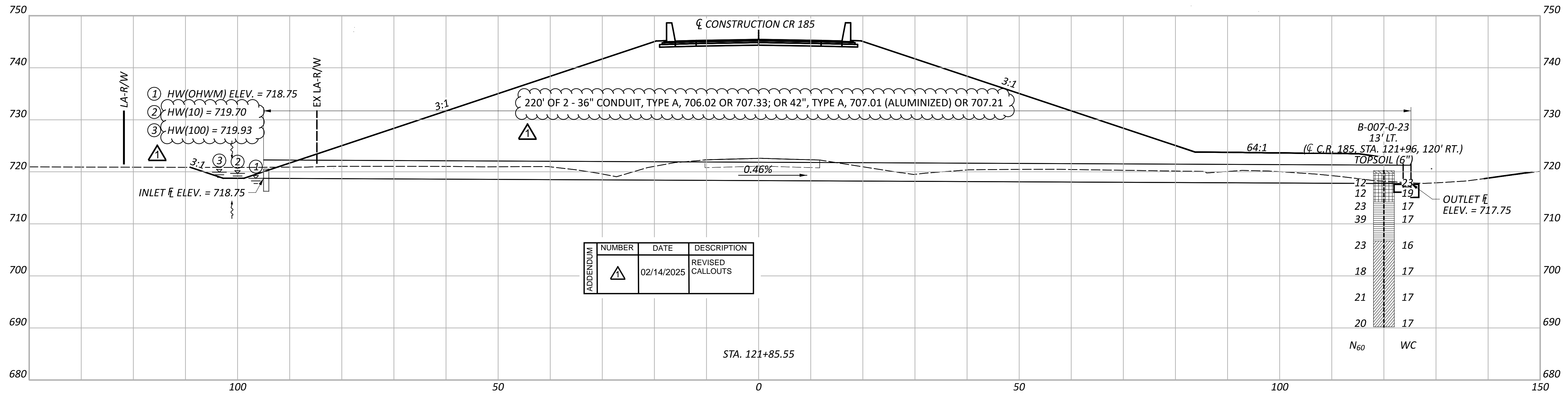
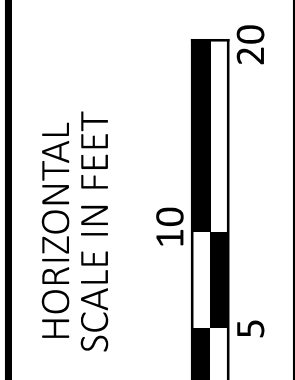
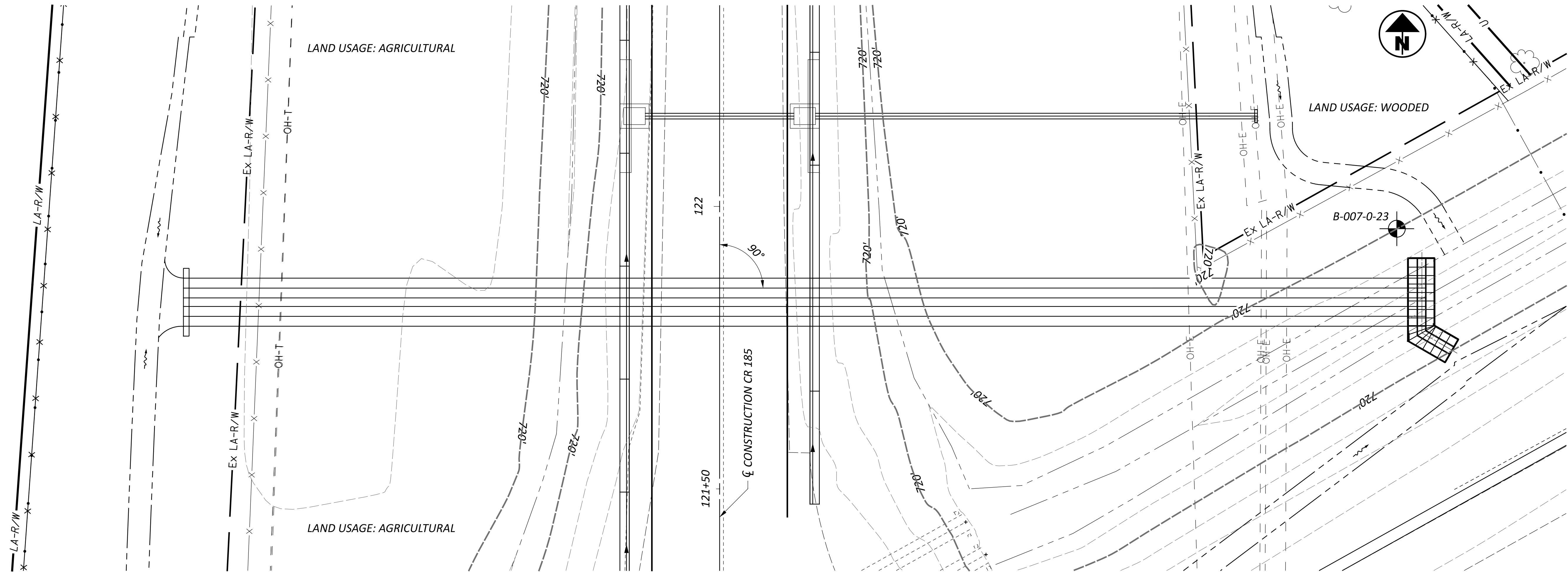
DESIGNER  
AJC

REVIEWER  
BKL 08/19/24

PROJECT ID  
115840

SUBSET	TOTAL
20	29

SHEET	TOTAL
P.134	143



- ① HW(OHWM) ELEV. = 718.75
- ② HW(10) = 719.70
- ③ HW(100) = 719.93

ADDENDUM	NUMBER	DATE	DESCRIPTION
	△	02/14/2025	REVISED CALLOUTS

GEOTECHNICAL PROFILE - ROADWAY  
 CULVERT NOS. 1996360 & 199361

DESIGN AGENCY	
DESIGNER	
AJC	
REVIEWER	
BKL 08/19/24	
PROJECT ID	
115840	
SUBSET	TOTAL
21	29
SHEET	TOTAL
P.135	143