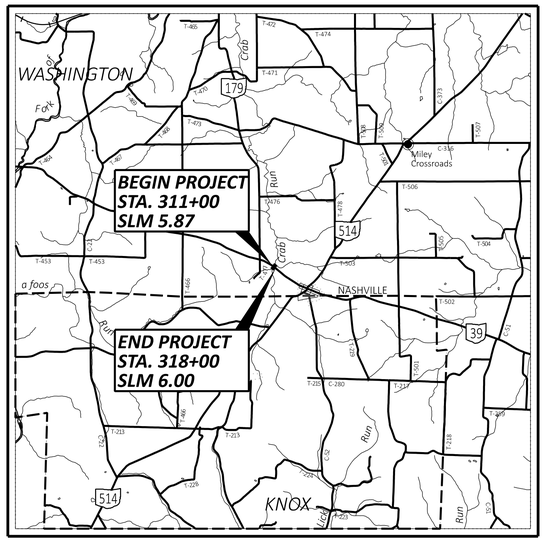
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

HOL-39-5.87

WASHINGTON TOWNSHIP

HOLMES COUNTY



LOCATION MAP

LATITUDE: N 40°36'05" LONGITUDE: W 82°07'15"

N

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

DESIGN DESIGNATION

CURRENT ADT (2028)	3,700
DESIGN YEAR ADT (2040)	4,100
DESIGN HOURLY VOLUME (2040)	550
DIRECTIONAL DISTRIBUTION	59.1%
TRUCKS (24 HOUR B&C)	16%
DESIGN SPEED	60 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
04 - MINOR ARTERIAL (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

	APPROVAL DATE	SHEET NO.
SHOULDER WIDTH	7/8/25	P.02-P.03
HORIZONTAL CURVE RADIUS	7/8/25	P.15
MAXIMUM GRADE	7/8/25	P.16
SUPERELEVATION	7/8/25	P.16, P.36

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:
ODOT DISTRICT 11
CAPITAL PROGRAMS
NEW PHILADELPHIA, OH

INDEX OF SHEETS:

STAGE 3 PRE-SUBMISSION
MAY 20, 2026

FEDERAL PROJECT NUMBER

E250(484)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

IMPROVE 0.13 MILES (700 FT.) OF S.R. 39 IN WASHINGTON TOWNSHIP OF HOLMES COUNTY BY REPAIRING BRIDGE NO. HOL-39-05.940 OVER CRAB RUN. IMPROVEMENTS INCLUDE A NEW MICRO SILICA OVERLAY WEARING SURFACE OVER DECK, NEW DECK SLAB EDGE BEAMS, NEW BRIDGE RAILING, NEW APPROACH GUARDRAIL, ABUTMENT REPAIRS, NEW ROCK CHANNEL PROTECTION, AND ENCASEMENT OF PIERS. IN ADDITION, APPROACH WORK TO ADJUST THE PROFILE AND SUPERELEVATION WILL BE PERFORMED WITH FULL DEPTH REPAIRS, PLANING, AND RESURFACING, WITH GUARDRAIL REPLACEMENT, AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.7 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.3 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)*

*ROUTINE MAINTENANCE PROJECT

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 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Thomas D. Corey
District 11 Deputy Director

Pamela Boratyn
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	1/19/24	MGS-2.1	1/16/26	CPA-1-08	1/19/24	MT-96.20	7/18/25	TC-41.20	10/18/13	800-2023	1/16/26
BP-4.1	7/19/13	MGS-3.1	1/16/26	CPP-1-08	7/21/17	MT-96.26	1/17/25	TC-41.30	4/21/23	832	7/18/25
		MGS-4.2	7/18/25	CS-1-24	1/16/26	MT-97.10	7/18/25	TC-42.20	10/18/13	844	1/17/25
DM-4.3	1/15/16	MGS-5.3	7/15/16	TST-2-21	1/17/25	MT-97.12	1/16/26	TC-52.10	10/18/13	848	7/19/24
DM-4.4	1/15/16					MT-101.60	1/17/25	TC-52.20	1/15/21		
				HL-50.21	1/16/26	MT-101.70	7/19/24	TC-61.30	7/19/24		
						MT-101.75	7/21/23	TC-65.10	1/17/14		
						MT-101.90	7/17/20	TC-65.11	1/17/25		
						MT-105.10	1/17/20				

SUPPLEMENTAL SPECIFICATIONS

800-2023	1/16/26
832	7/18/25
844	1/17/25
848	7/19/24

SPECIAL PROVISIONS

ASBESTOS SURVEY REPORT 7/29/22
WATERWAY PERMITS CONDITION 1/29/26

ENGINEER'S SEAL

STATE OF OHIO
MICHAEL VICTOR CLARK
E-88957
REGISTERED PROFESSIONAL ENGINEER

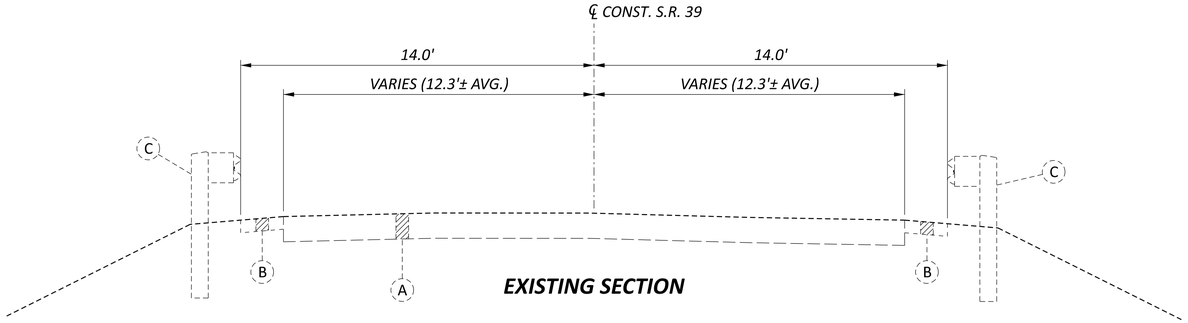
TITLE SHEET

DESIGN AGENCY

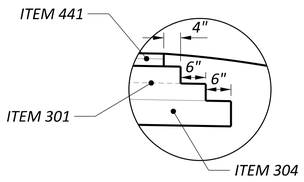
DESIGNER DAB
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.01 TOTAL 64

HOL-39-5.87

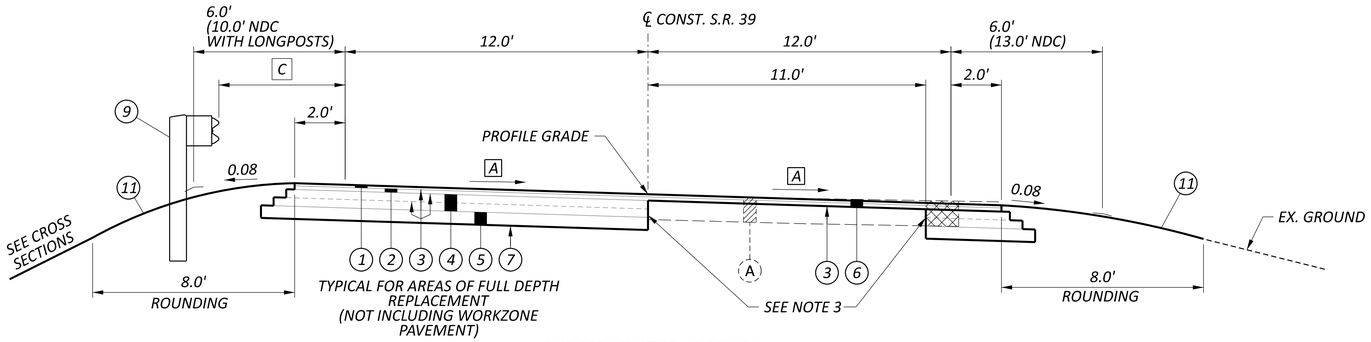
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:54:31 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_GT001.dgn



EXISTING SECTION

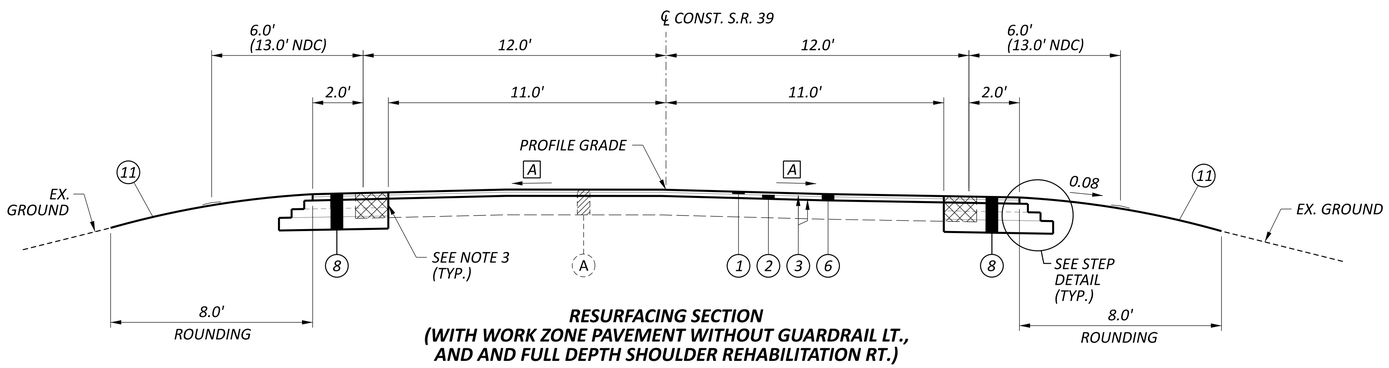


STEP DETAIL



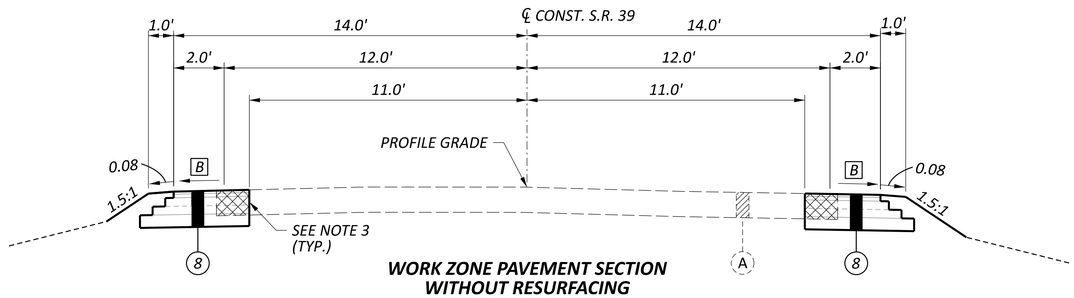
SUPERELEVATED SECTION
(WITH FULL DEPTH LANE REPLACEMENT LT., FULL DEPTH SHOULDER REHABILITATION RT., AND RESURFACING)

STA. 312+75.00 TO STA. 313+25.00



RESURFACING SECTION
(WITH WORK ZONE PAVEMENT WITHOUT GUARDRAIL LT., AND AND FULL DEPTH SHOULDER REHABILITATION RT.)

STA. 311+00.00 TO STA. 312+75.00
STA. 316+25.00 TO STA. 318+00.00



WORK ZONE PAVEMENT SECTION
WITHOUT RESURFACING

STA. 310+25.00 TO STA. 311+00.00
STA. 318+00.00 TO STA. 318+75.00

PROPOSED LEGEND

1. ITEM 441 - 1 ¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M
2. ITEM 441 - 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
3. ITEM 407 - TACK COAT
4. ITEM 301 - 8" ASPHALT CONCRETE BASE, (449), PG64-22
5. ITEM 304 - 6" AGGREGATE BASE
6. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (VARIES 0" MIN. TO 6" MAX.)
7. ITEM 204 - SUBGRADE COMPACTION
8. ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (FLEXIBLE)
9. ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POSTS
10. ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2
11. ITEM 659 - SEEDING AND MULCHING
12. ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (SPOT LEVELING)

EXISTING LEGEND

- A EXISTING ASPHALT PAVEMENT BUILDUP (12"±)
- B EXISTING AGGREGATE SHOULDER BUILDUP (6"±)
- C EXISTING GUARDRAIL
- D EXISTING REINFORCED CONCRETE APPROACH SLAB (T=12")

LEGEND

ITEM 202 - PAVEMENT REMOVED

NOTES:

1. *THE WORK ZONE PAVEMENT SHALL REMAIN AS PERMANENT SHOULDER.*
2. *WHEN PLACING WORK ZONE PAVEMENT IN AREAS WITH EXISTING GUARDRAIL, THE CONTRACTOR MAY FOREGO THE PAVEMENT STEPS IN FAVOR OF USING HAND TOOLS TO COMPACT THE PAVEMENT TO AVOID REMOVING AND REINSTALLING THE GUARDRAIL. AREAS OUTSIDE GUARDRAIL LIMITS SHALL BE INSTALLED AS PER 615.*
3. *PROVIDE A NEAT JOINT PER C&MS 202.05. PAYMENT SHALL BE INCLUDED WITH ITEM 202 - PAVEMENT REMOVED.*

A SEE PAVEMENT TRANSITION TABLE ON SHEET P.XX FOR CROSS SLOPES

B MATCH EXISTING CROSS SLOPES

C VARIES 2.4' TO 5.0'

NDC = NORMAL DESIGN CRITERIA

TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.02 TOTAL 64

HOL-39-5.87

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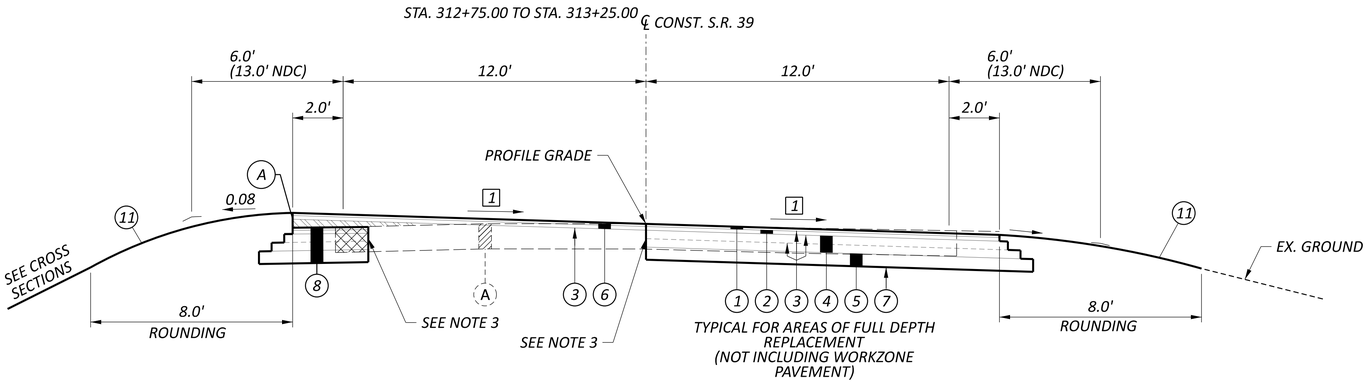
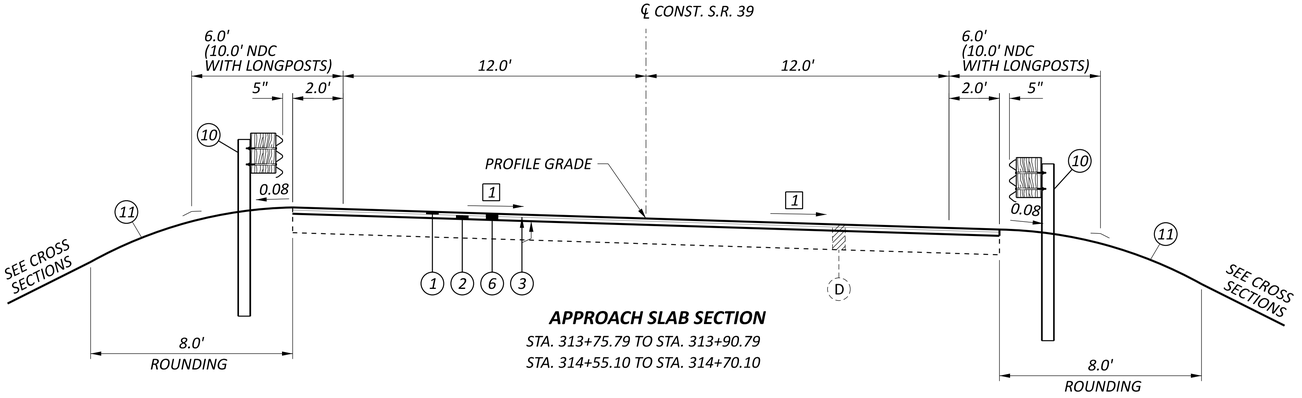


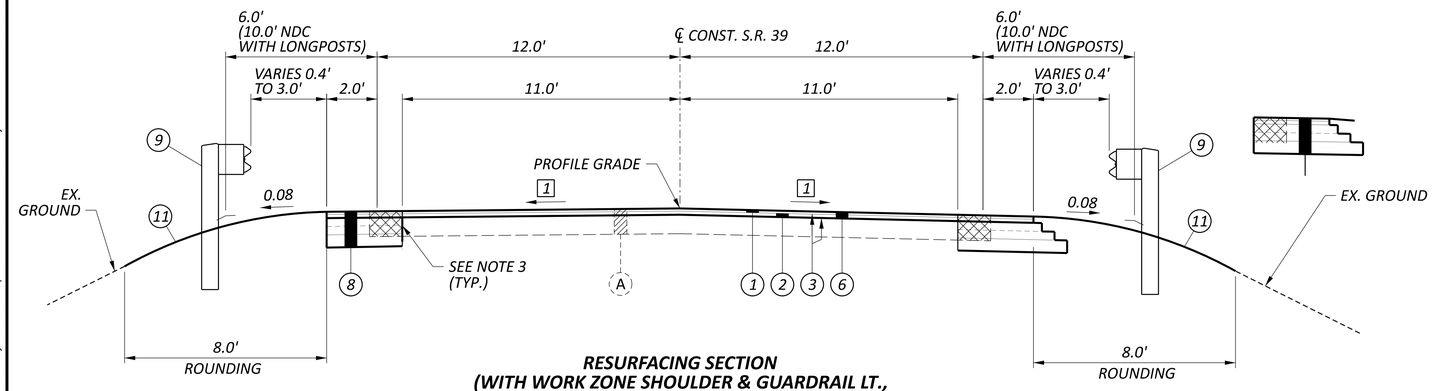
SUPERELEVATED SECTION
(WITH WORK ZONE SHOULDER LT., FULL DEPTH LANE REPLACEMENT RT., AND RESURFACING)

STA. 315+25.00 TO STA. 316+25.00



APPROACH SLAB SECTION

STA. 313+75.79 TO STA. 313+90.79
STA. 314+55.10 TO STA. 314+70.10



RESURFACING SECTION
(WITH WORK ZONE SHOULDER & GUARDRAIL LT., AND FULL DEPTH SHOULDER REHABILITATION RT.)

STA. 313+25.00 TO STA. 313+75.79
STA. 314+70.10 TO STA. 315+25.00

NOTES:

1. *THE WORK ZONE PAVEMENT SHALL REMAIN AS PERMANENT SHOULDER.*
2. *WHEN PLACING WORK ZONE PAVEMENT IN AREAS WITH EXISTING GUARDRAIL, THE CONTRACTOR MAY FOREGO THE PAVEMENT STEPS IN FAVOR OF USING HAND TOOLS TO COMPACT THE PAVEMENT TO AVOID REMOVING AND REINSTALLING THE GUARDRAIL. AREAS OUTSIDE GUARDRAIL LIMITS SHALL BE INSTALLED AS PER 615.*
3. *PROVIDE A NEAT JOINT PER C&MS 202.05. PAYMENT SHALL BE INCLUDED WITH ITEM PAVEMENT REMOVED.*
4. *FOR PROPOSED AND EXISTING LEGEND, SEE SHEET P.02.*
5. [1] *SEE SUPERELEVATION TABLE ON SHEET P.35 FOR CROSS SLOPES.*

LEGEND

ITEM 202 - PAVEMENT REMOVED

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (SPOT LEVELING)

(A) *VARIABLE ASPHALT THICKNESS FOR WEDGE COURSE, SEE CROSS SECTIONS*

TYPICAL SECTIONS

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.03 TOTAL 64

HOL-39-5.87

UTILITIES

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

AEP OHIO POWER COMPANY
ATTN: CLARKE SAUNDERS
777 HOPEWELL DRIVE
HEATH, OHIO 43056
614-460-4794
CMSAUNDERS@AEP.COM

BRIGHTSPEED
ATTN: JEFFREY SCHOONOVER
2025 AKRON ROAD
WOOSTER, OHIO 44691
980-376-1554
JEFFREY.L.SCHOONOVER@BRIGHTSPEED.COM

HOLMES-WAYNE ELECTRIC CO-OP
ATTN: TIM VICKERS
6060 STATE ROUTE 83
MILLERSBURG, OHIO 44654
330-674-1055
TVICKERS@HWECOOP.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

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 TREES, STUMPS, AND VEGETATION UNDERNEATH THE STRUCTURE AND/OR WITHIN 20 FEET OF THE STRUCTURE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

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.

RAISED PAVEMENT MARKERS FOR CONCRETE BRIDGE DECKS AND APPROACH SLABS

THE CONTRACTOR SHALL OMIT RAISED PAVEMENT MARKERS ACROSS CONCRETE BRIDGE DECKS AND APPROACH SLABS.

EXISTING PLANS

THE FOLLOWING EXISTING PLANS ARE AVAILABLE FOR REFERENCE AT THE DISTRICT 11 OFFICE OF THE OHIO DEPARTMENT OF TRANSPORTATION, 2201 REISER AVE. S.E., NEW PHILADELPHIA, OHIO, 44663:

ORIGINAL CONSTRUCTION:
HOL-39-5.94 - 1981

IN ADDITION, THE EXISTING PLANS CAN BE FOUND ON THE DEPARTMENT'S WEBSITE AT THE FOLLOWING ADDRESS:

http://ftp.dot.state.oh.us/pub/Contracts/Attach

ROUNDING

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

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.

GUARDRAIL REPLACEMENT

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE GUARDRAIL, INSTALL EMBANKMENT, GRADE AND REINSTALL IN A CONTINUOUS OPERATION. THE REMOVAL OF GUARDRAIL SHALL, AT ALL TIMES, BE AS DIRECTED BY THE ENGINEER. NO GUARDRAIL SHALL BE REMOVED UNTIL THE REPLACEMENT MATERIAL IS ON SITE, READY FOR INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE DEEMED SUFFICIENT CAUSE TO ORDER WORK SUSPENDED ON THIS PROJECT UNTIL SUCH TIME THAT THE ENGINEER IS ASSURED OF COMPLIANCE.

IF THE CONTRACTOR CHOOSES TO TEMPORARILY REMOVE GUARDRAIL COMPONENTS FOR ACCESS OR EASE OF CONSTRUCTABILITY, THOSE PIECES REMOVED SHALL BE IMMEDIATELY REINSTALLED UPON COMPLETION OF THE ACTIVITY.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE BELOW FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING HORIZONTAL AND VERTICAL POSITIONING PARAMETERS FOR ALL SURVEYING

POSITIONING METHOD: ODOT VRS

MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.00007391
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

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE E TANGENETIAL END TREATMENTS FOR TYPE MGS GUARDRAIL AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON ROADWAY ENGINEERING'S WEB PAGE. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS.

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. 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. 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.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH SOLID FLUORESCENT YELLOW REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

WHEN THE FACE OF THE ADJACENT (ATTACHED) GUARDRAIL IS LESS THAN 4' OFFSET FROM THE PROPOSED EDGE LINE, AND PERMITTING SITE CONDITIONS EXIST: THE PROPOSED TYPE E ANCHOR ASSEMBLY SHALL BE INSTALLED AT A CONSISTENT FLARE RATE THROUGH THE FULL LENGTH OF THE SYSTEM. THE FLARE RATE SHALL BE A MAXIMUM OF 25:1 (RESULTING IN A 2' OFFSET). THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE SHOP DRAWINGS, PRODUCT INSTALLATION MANUAL/GUIDANCE, AND AS DIRECTED BY THE ENGINEER.

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.

SEEDING AND MULCHING

THE QUANTITIES ON SHEET P.13 ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS.

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 621 - RAISED PAVEMENT MARKER REMOVED

EXISTING RAISED PAVEMENT MARKERS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR DISPOSAL OFF THE PROJECT. IN AREAS OF PAVEMENT PLANING ONLY, THE REQUIREMENT TO FILL THE DEPRESSIONS SHALL BE WAIVED.

NATIONAL GEODETIC SURVEY (NGS) BENCHMARKS

THERE IS A NATIONAL GEODETIC SURVEY (NGS) BENCHMARK (BM#1) LOCATED ON THE LEFT REAR ABUTMENT WINGWALL. DO NOT DISTURB THIS BENCHMARK. IF CONSTRUCTION ACTIVITIES REQUIRE ITS REMOVAL, NOTIFY THE DISTRICT SURVEYOR, BY PHONE AT 330-308-7866 AT LEAST THREE (3) WEEKS PRIOR TO REMOVAL OF THE NATIONAL GEODETIC SURVEY (NGS) DISK. REMOVE THE NGS DISK WITHOUT DAMAGING THE FACE AND SUBMIT IT TO THE DISTRICT SURVEYOR. ALL COSTS ASSOCIATED WITH THE REMOVAL AND SALVAGE OF THE NGS DISK ARE INCLUDED IN THE PAYMENT FOR ITEM 202 STRUCTURE REMOVED, OR ITEM 202, PORTIONS OF STRUCTURE REMOVED.

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), AS PER PLAN, (SPOT LEVELING)

LONGITUDINAL AND TRANSVERSE IRREGULARITIES ARE INTERMITTENTLY PRESENT THROUGHOUT THE EXISTING PAVEMENT SURFACE, BUT THE PAVEMENT DOES NOT REQUIRE A FULL-WIDTH LEVELING COURSE. IRREGULARITIES SHALL BE FILLED WITH ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (SPOT LEVELING) IN A MANNER THAT WILL RESULT IN SURROUNDING PORTIONS OF THE EXISTING SURFACE REMAINING EXPOSED AFTER THE SPOT LEVELING COURSE IS PLACED. THE SPOT LEVELING COURSE SHALL BE A VARIABLE DEPTH COURSE WITH A MINIMUM THICKNESS OF 0" INSTALLED AS PER THE TYPICAL SECTION ON SHEET 4 AND AS SHOWN ON THE CROSS SECTIONS ON SHEETS 23 TO 25. THE MATERIAL SHALL BE PLACED IN A SEPARATE OPERATION DIRECTED BY THE ENGINEER.

HOL-39-5.87 PID 108814

POINT ID	NORTHING	EASTING	ELEVATION	CODE	DESCRIPTION	STATION	OFFSET	ALIGNMENT
CP01	340733.272	2073493.668	1070.59	CNPT	IRON PIN W/ ODOT CAP BM LEVELED	312+06.43	-25.797	CLX_RW_S39
CP02	340453.946	2073858.082	1073.67	CNPT	IRON PIN W/ ODOT CAP LEVELED	316+62.44	-19.022	CLX_RW_S39
BM1	340628.920	2073644.480	1071.37	GOVCON	LEVELED USE VERTICAL ONLY	313+87.41	-16.95	CLX_RW_S39
CL1	340828.248	2073275.056	N/A	POT	POT	309+69.48	CL	CLX_RW_S39
CL2	340679.630	2073535.656	N/A	PC	PC	312+69.48	CL	CLX_RW_S39
CL3	340575.177	2073685.130	N/A	PT	PT	314+52.09	CL	CLX_RW_S39
CL4	340381.557	2073914.283	N/A	POT	POT	317+52.09	CL	CLX_RW_S39

GENERAL NOTES

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.04 TOTAL 64

HOL-39-5.87

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:54:55 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
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ITEM 614 - MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 614 AND THE MAINTENANCE OF TRAFFIC DESCRIBED ON SHEETS P.05-P.10.

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY UTILIZING ONE-LANE, TWO-WAY ALTERNATING SIGNALIZED TRAFFIC UNLESS OTHERWISE NOTED IN THE PLANS. A MINIMUM OF ONE 10.0' LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, AND ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

ALTERNATING ONE-WAY VEHICULAR TRAFFIC SHALL BE MAINTAINED DURING PHASE 2 AND PHASE 3 BY USE OF FULLY-ACTUATED WORK ZONE TRAFFIC SIGNALS AS SHOWN ON SHEETS P.06. TRAFFIC SHALL BE SEPARATED FROM THE WORK AREA BY MEANS OF ITEM 622, PORTABLE BARRIER, UNANCHORED, AND DRUMS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE ADVANCE WARNING SIGNS GROUPS AS SHOWN ON SHEETS P.06 AND P.08 AND TRAFFIC SCD MT-95.50 WITH THE APPROPRIATE W16-3A DISTANCE PLATES.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL MEET WITH AFFECTED PROPERTY OWNERS PRIOR TO THE OPENING OF EACH MAINTENANCE OF TRAFFIC PHASE TO DISCUSS HOW THE SIGNAL PHASING AND DRIVEWAY ACCESS WILL FUNCTION.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC, INCLUDING ANY PAVEMENT WEDGES NECESSARY TO ENSURE SMOOTH TRANSITIONS FOR TRAFFIC DURING CONSTRUCTION.

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC -- ***10 CU. YD.***

THE CONTRACTOR WILL NOT PERFORM ANY WORK ON THIS PROJECT BETWEEN THE HOURS OF 8:00 PM TO 7:00 AM.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 ALONG WITH PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING ADVANCE WARNING SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SEQUENCE OF CONSTRUCTION

THE PROJECT SHALL BE CONSTRUCTED IN FOUR PHASES. ONE LANE OF TRAVEL SHALL BE MAINTAINED USING FLAGGERS IN ACCORDANCE WITH MT-97.10, OR TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH MT-96.11. COMPLETE EACH PHASE PRIOR TO ADVANCING TO THE NEXT CONSTRUCTION PHASE.

PHASE 1:

PHASE 1 SHALL CONSIST OF PLACING THE PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (FLEXIBLE) FOR THE PHASE 2 WESTBOUND LANE OF S.R. 39 (LEFT SIDE), AND INSTALLING THE WORK ZONE SIGNALS. PLACE WORK ZONE PAVEMENT TO MATCH THE EXISTING PAVEMENT CROSS SLOPE. TRAFFIC WILL BE MAINTAINED USING FLAGGERS PER SCD MT-97.10. ALL WORK COMPLETED SHALL BE SUBJECT TO THE "TRENCH FOR WIDENING" AND "OVERNIGHT TRENCH CLOSING" NOTES.

PHASE 2:

PHASE 2 SHALL CONSIST OF CONSTRUCTING THE EASTBOUND LANE OF S.R. 39 (RIGHT SIDE) BY DEMOING FOR AND CONSTRUCTING THE NEW RIGHT EDGE BEAM, PERFORMING HYDRODEMOLITION, FULL-DEPTH DECK REPAIRS, AND PLACING MICRO-SILICA OVERLAY ON THE DECK AND EDGE BEAM, PERFORMING ABUTMENT REPAIRS, PLACING NEW TST-2 BRIDGE GUARDRAIL, AND SEALING THE CONCRETE. IN ADDITION TO THE BRIDGE WORK, THE CONTRACTOR SHALL REHABILITATE THE SHOULDER, PERFORM FULL DEPTH REPAIRS, PLAN AND PAVE THE ROAD AND APPROACH SLABS UP TO THE INTERMEDIATE COURSE, AND REPLACE THE APPROACH GUARDRAIL. TRAFFIC WILL BE MAINTAINED USING THE LEFT SIDE OF EXISTING ROADWAY. ONE-LANE TWO-WAY TRAFFIC WILL BE MAINTAINED USING TEMPORARY TRAFFIC SIGNALS PER MT-96.11 PER P.07-P.08.

PHASE 3:

PHASE 3 SHALL CONSIST OF CONSTRUCTING THE WESTBOUND LANE OF S.R. 39 (LEFT SIDE) BY DEMOING FOR AND CONSTRUCTING THE NEW RIGHT EDGE BEAM, PERFORMING HYDRODEMOLITION, FULL-DEPTH DECK REPAIRS, AND PLACING MICRO-SILICA OVERLAY ON THE DECK AND EDGE BEAM, PERFORMING ABUTMENT REPAIRS, PLACING NEW TST-2 BRIDGE GUARDRAIL, AND SEALING THE CONCRETE. IN ADDITION TO THE BRIDGE WORK, THE CONTRACTOR SHALL REHABILITATE THE SHOULDER, PERFORM FULL DEPTH REPAIRS, PLAN AND PAVE THE ROAD AND APPROACH SLABS UP TO THE INTERMEDIATE COURSE, AND REPLACE THE APPROACH GUARDRAIL. TRAFFIC WILL BE MAINTAINED USING THE RIGHT SIDE OF EXISTING ROADWAY. ONE-LANE TWO-WAY TRAFFIC WILL BE MAINTAINED USING TEMPORARY TRAFFIC SIGNALS PER MT-96.11 PER P.09-P.10.

PHASE 4:

CONSTRUCT THIS PHASE WITH FLAGGERS UTILIZING SCD MT-97.10.

PHASE 4 SHALL CONSIST OF REMOVING THE WORK ZONE SIGNALS, PORTABLE BARRIER, WORK ZONE MARKINGS, AND SIGNS, PLACING THE FINAL ASPHALT SURFACE COURSE, APPLYING PERMANENT PAVEMENT MARKINGS, RPM'S, AND APPLYING ANY ADDITIONAL CONCRETE SEALING NOT COMPLETED IN PRIOR PHASES.

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
ROAD CLOSURES	≥ 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	4 BUSINESS 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.

WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT --- ***0.10 MILE***

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT --- ***0.05 MILE***

ITEM 614, WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

LIGHTING

LIGHTING SHALL BE PROVIDED AT EACH END OF THE LANE CLOSURE FOR THE CLOSING OF ONE LANE OF A TWO-LANE HIGHWAY.

LIGHTING SHALL BE BY CONVENTIONAL METHODS, WITH LUMINAIRE ARMS ATTACHED TO THE SIGNAL SUPPORTS. AREA ILLUMINATION SHALL BE PROVIDED BY USING AN 8000-LUMEN LED, 150 WATT MINIMUM HIGH PRESSURE SODIUM LUMINARIES OR 250 WATT MINIMUM MERCURY LUMINARIES. THE MINIMUM HEIGHT OF THE LUMINAIRE SHALL BE 27 FT FROM THE GROUND SURFACE.

PAYMENT FOR LIGHTING SHALL INCLUDE DELIVERY, ERECTION, MAINTENANCE, AND REMOVAL AS CALLED FOR IN THE PLANS. PAYMENT SHALL BE PER EACH.

ITEM 614, WORK ZONE LIGHTING SYSTEM ---------- ***2 EACH***

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.05 TOTAL 64

HOL-39-5.87

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

FOLLOW SPECIFICATION 615. UPON COMPLETION OF THE PROJECT, THE WORK ZONE PAVEMENT SHALL REMAIN IN PLACE . THE COMPOSITION OF THE PAVEMENT SHALL BE FLEXIBLE AND MATCH THE PAVEMENT CROSS SLOPE AND PROPOSED PAVEMENT BUILD-UP AS DETAILED IN THE TYPICAL SECTIONS ON SHEETS P.02-P.03.

IT IS EXPECTED TO USE HAND TOOLS TO COMPACT THE PORTION OF PAVEMENT ON THE LEFT SIDE UNDER THE GUARDRAIL TO AVOID THE NEED TO TEMPORARILY REMOVE AND REINSTALL GUARDRAIL COMPONENTS TO COMPLETE THIS ITEM OF WORK.

THE LEFT SIDE WORK ZONE PAVEMENT WILL PLACE 3 INCHES OF INTERMEDIATE COURSE IN LIEU OF SURFACE COURSE. THE WORK ZONE PAVEMENT WILL REMAIN IN PLACE, EXCEPT IN AREAS OF UNDERCUT AND FULL DEPTH PAVEMENT REPLACEMENT WHERE PAVEMENT REMOVAL IS NECESSARY.

THE RIGHT SIDE WORK ZONE PAVEMENT WILL PLACE THE COURSES UP TO 301, THEN PERFORM PLANING AND PLACE INTERMEDIATE COURSE OVER BOTH THE TRAVEL LANE AND THE WORK ZONE PAVEMENT. THE WORK ZONE PAVEMENT WILL REMAIN IN PLACE.

SAW OR OTHERWISE CONSTRUCT A NEAT JOINT TO ACCEPT THE WORK ZONE PAVEMENT PER C&MS 202.05. THE MAXIMUM ACCEPTABLE ELEVATION DIFFERENCE AT SAW CUT LINE BETWEEN THE EXISTING PAVEMENT AND THE PAVEMENT FOR MAINTAINING TRAFFIC SHALL BE 0.25". A QUANTITY FOR ITEM 202 - PAVEMENT REMOVED FROM THE M.O.T. OFFICE CALCULATIONS ARE PROVIDED BELOW.

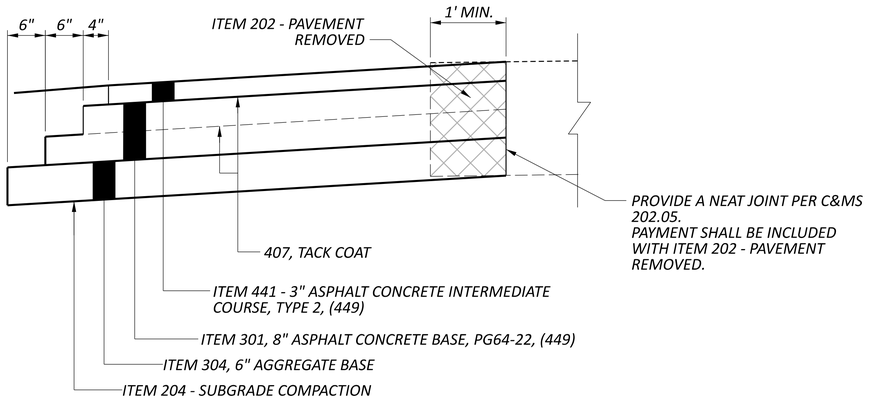
SEE MAINTENANCE OF TRAFFIC PLAN SHEETS FOR LOCATIONS OF THIS PAVEMENT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN ---------- **453 SQ. YD**

ITEM 202 - PAVEMENT REMOVED ---------- **56 SQ. YD**

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS, AND EQUIPMENT NECESSARY FOR INSTALLING THIS ITEM.



ITEM 615 - ROADS FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC -------- **182 CU. YD.**

EXCAVATION FOR MAINTAINING TRAFFIC -------- **36 CU. YD.**

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ALL WORK SHALL FOLLOW SPECIFICATION 615. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 1 1/4 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

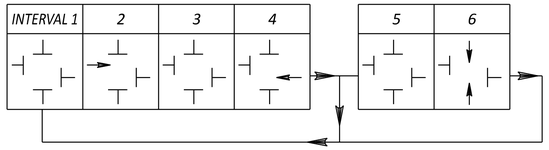
THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON SHEETS P.06-P.09 AND TRAFFIC SCD'S MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED, AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

	ALL PHASES					
	1	2	3	4	5	6
	ALL RED	S.R. 39 (EASTBOUND)	ALL RED	S.R. 39 (WESTBOUND)	ALL RED	DRIVES (WHEN ACTUATED)
MIN. GREEN	--	10	--	10	--	10
EXTENSION	--	4	--	4	--	4
MAX. GREEN	--	24	--	24	--	24
YELLOW	--	4	--	4	--	4
ALL RED	32	--	32	--	32	--
RECALL	OFF	ON	OFF	OFF	OFF	OFF

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

WORK ZONE TRAFFIC SIGNAL TIMING AND PHASING



CONTRACTOR SHALL DETERMINE THE TYPE OF DETECTOR TO BE INSTALLED AT EACH STOP BAR AS PER MT-96.20 AND MT-96.26.

⊕ DURING INTERVAL 6, ONLY THE SIGNAL LOCATION FOR THE DRIVE THAT WAS ACTUATED SHALL BE GREEN. THE NON-ACTUATED LOCATION SHALL BE RED.

PAYMENT SHALL BE INCLUDED WITH ITEM 614- MAINTAINING TRAFFIC FOR ALL MATERIAL, LABOR, INCIDENTALS, AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING THE VEHICLE DETECTORS, SIGNAL SUPPORTS, RAILROAD COORDINATION EQUIPMENT, AND POWER SUPPLY.

WORK ZONE TRAFFIC SIGNALS

ALL WORK ZONE TRAFFIC SIGNALS SHALL HAVE A UPS SYSTEM CONFORMING TO CMS 633.18 AND 733.09, EXCEPT THAT A SEPARATE UPS ENCLOSURE IS NOT REQUIRED IF THE WORK ZONE TRAFFIC SIGNAL CONTROL EQUIPMENT IS TRAILER-MOUNTED. ALL SIGNAL HEADS SHALL BE LED CONFORMING TO CMS 732.04. IN ADDITION TO THE REQUIREMENTS OF CMS 614.10, THE CONTRACTOR SHALL INSTALL FRESH BATTERIES OR A PORTABLE GENERATOR WITHIN TWO HOURS OF A REPORTED DARK SIGNAL DUE TO AN EXTENDED POWER OUTAGE. ALL COSTS FOR MATERIALS, EQUIPMENT AND LABOR SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 622 - PORTABLE BARRIER, UNANCHORED

IT IS ANTICIPATED THAT THE SAME BARRIER WILL BE USED IN VARIOUS PHASES OF CONSTRUCTION. MOVEMENT OF THE BARRIER BETWEEN PHASES WILL BE ACCOMPLISHED IN ONE WORKING DAY. FLAGGERS SHALL BE UTILIZED FOR PROTECTION OF VEHICULAR TRAFFIC UNTIL MOVEMENT OF THE BARRIER IS COMPLETE.

THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS LISTED IN SCD'S PCB-91 AND RM-4.2 FOR UNANCHORED BARRIER.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE ESTIMATED QUANTITIES FOR BARRIER REFLECTORS AND OBJECT MARKERS ARE INCLUDED IN THE MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES ON SHEET P.10.

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL AND ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 100 FEET.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL ------- **8 EACH**

ITEM 614, OBJECT MARKER, TWO-WAY ---------- **8 EACH**

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEMS.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER ---------- **10 M. GAL**

MAINTENANCE OF TRAFFIC GENERAL NOTES

DESIGN AGENCY

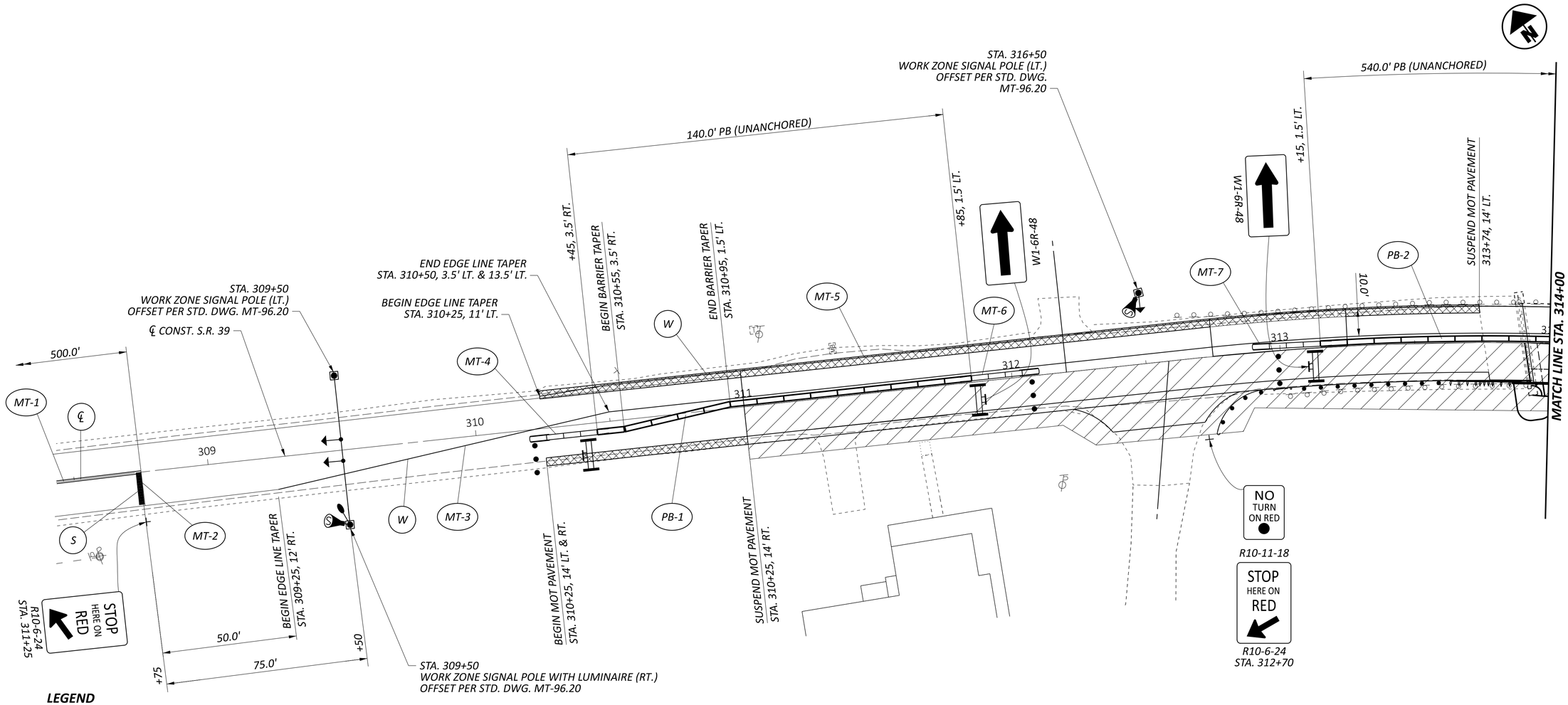
DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

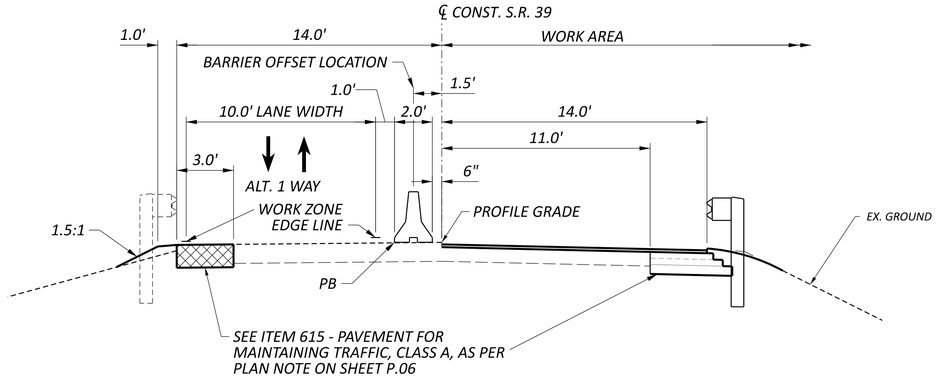
SHEET P.06 TOTAL 64

HOL-39-5.87



LEGEND

- WORK ZONE SIGNAL HEAD
- WORK ZONE LUMINAIRE
- WORK ZONE SIGNAL POLE
- WORK ZONE IMPACT ATTENUATOR
- DRUMS
- TYPE III BARRICADE
- DETECTOR UNIT
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (PLACED IN PHASE 1)
- ℄ WORK ZONE CENTER LINE
- S WORK ZONE STOP LINE
- W WORK ZONE WHITE EDGE LINE



PHASE 2 WORK ZONE TYPICAL SECTION

NOTES:

1. *FOR ADDITIONAL NOTES AND DETAILS, SEE SHEETS P.05-P.06 AND SCD'S MT-96.11 AND MT-96.20.*
2. *FOR PHASE CONSTRUCTION SEQUENCE, SEE SHEET NO. P.05.*
3. *FOR PHASE 2 WORK ZONE TRAFFIC SIGNAL TIMING AND PHASING, SEE SHEET NO. P.06.*
4. *FOR PHASE 3 MAINTENANCE OF TRAFFIC PLAN, SEE SHEETS P.09-P.10.*
5. *FOR M.O.T. ESTIMATED QUANTITIES, SEE SHEET NO. P.11.*

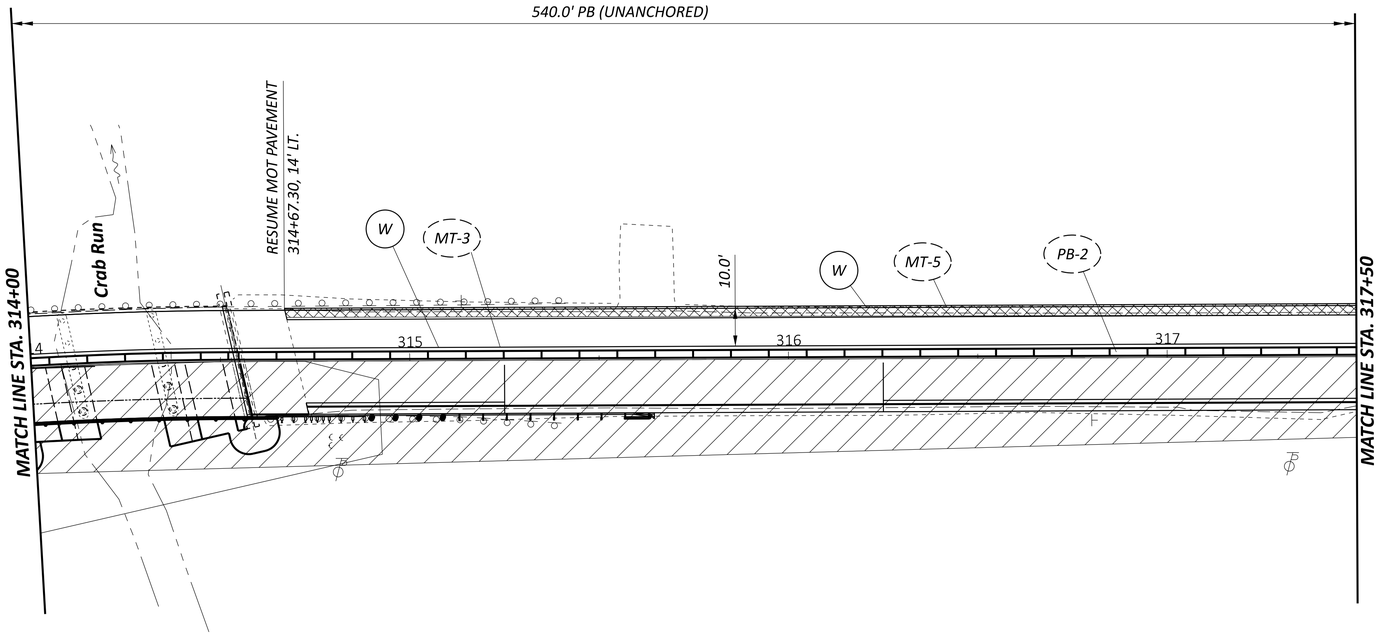
HORIZONTAL SCALE IN FEET
0 10 20 40

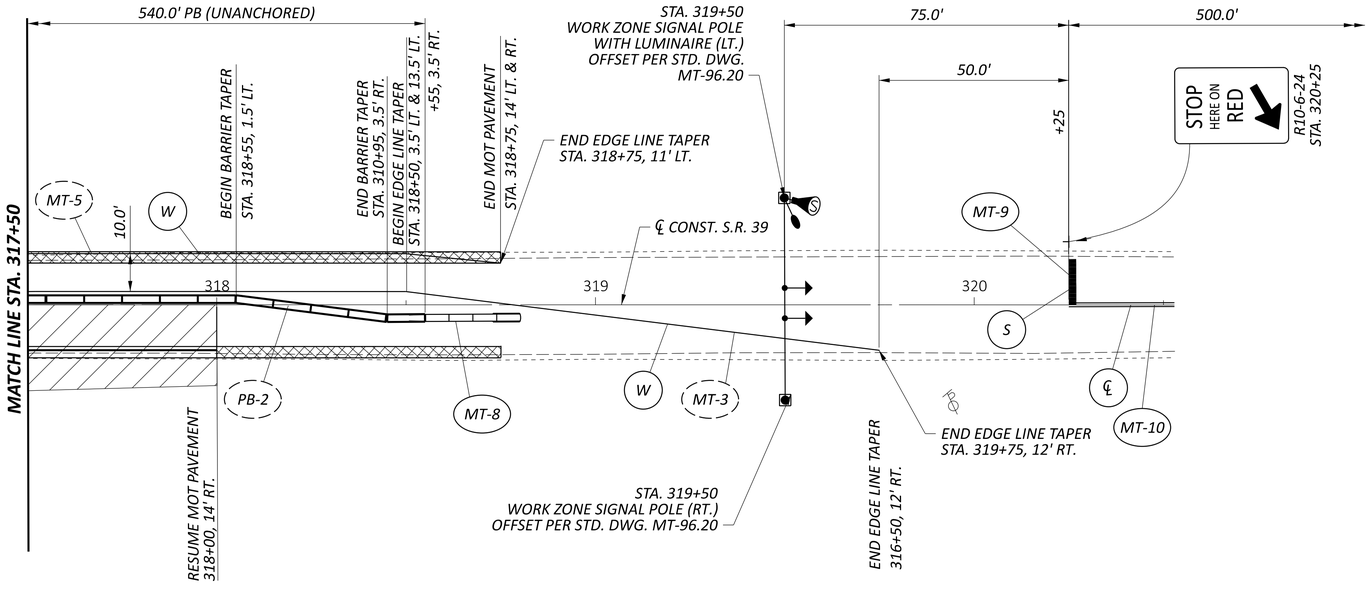
MAINTENANCE OF TRAFFIC PLAN - PHASE 2
STA. 308+40 TO STA. 314+00

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 07/13/23
PROJECT ID 108814
SHEET P.07 TOTAL 64

HOL-39-5.87





NOTES:

1. *FOR ADDITIONAL NOTES AND DETAILS, SEE SHEETS P.05-P.06 AND SCD'S MT-96.11 AND MT-96.20.*
2. *FOR PHASE CONSTRUCTION SEQUENCE, SEE SHEET NO. P.05.*
3. *FOR PHASE 2 WORK ZONE TRAFFIC SIGNAL TIMING AND PHASING, SEE SHEET NO. P.06.*
4. *FOR PHASE 3 MAINTENANCE OF TRAFFIC PLAN, SEE SHEETS P.09-P.10.*
5. *FOR PHASE 2 WORK ZONE TYPICAL, SEE SHEET P.07.*
6. *FOR M.O.T. LEGEND, SEE SHEET P.07.*
7. *FOR M.O.T. ESTIMATED QUANTITIES, SEE SHEET P.11.*

HORIZONTAL
SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 2
STA. 314+00 TO STA. 320+55

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.08 TOTAL 64

HOL-39-5.87

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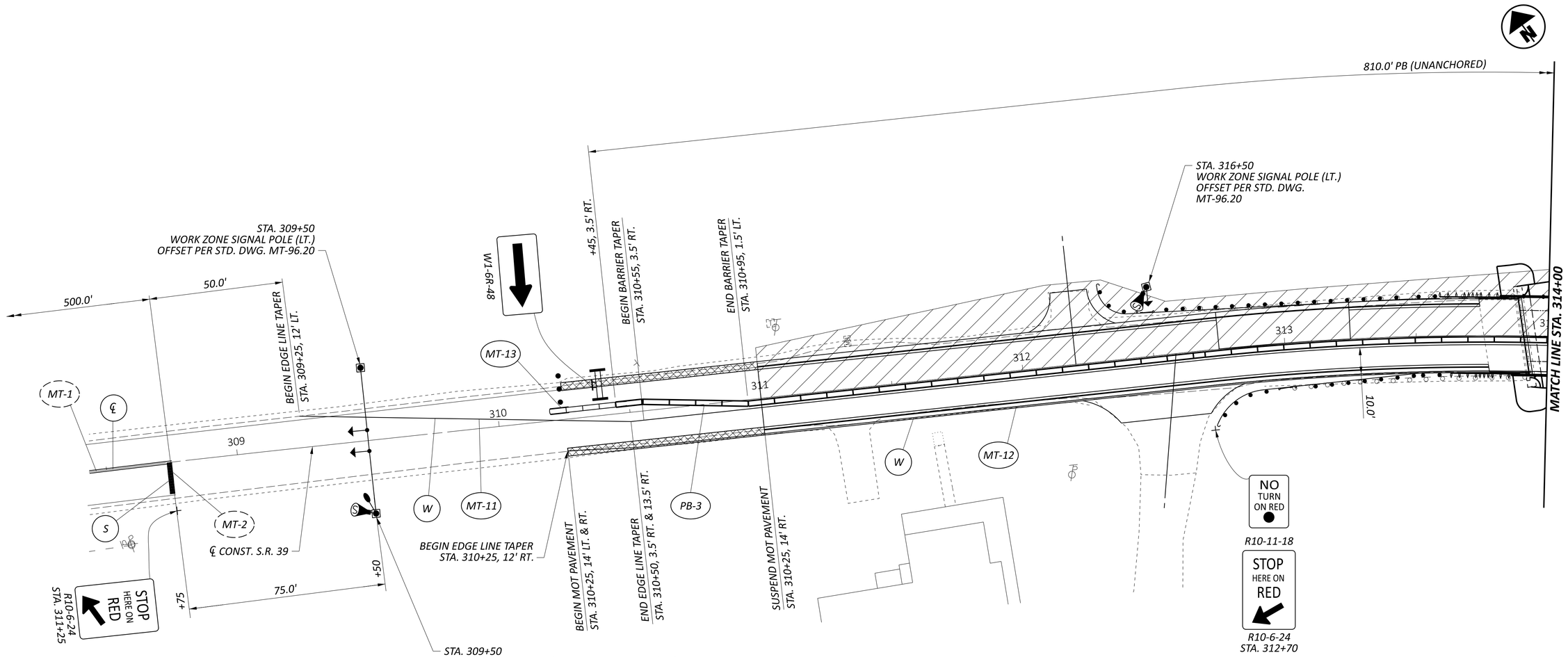
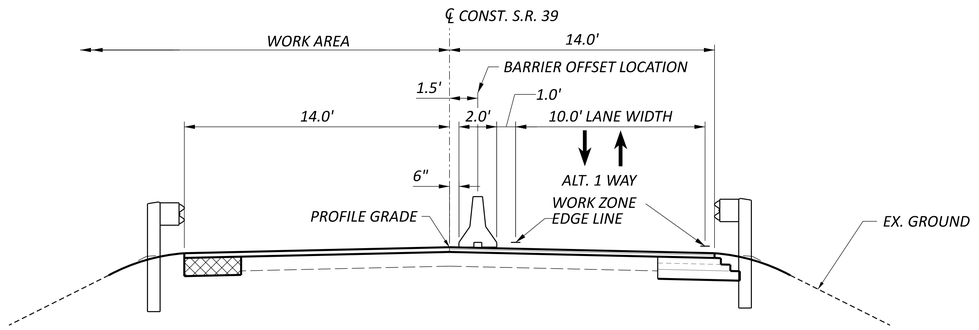


LEGEND

- WORK ZONE SIGNAL HEAD
- WORK ZONE LUMINAIRE
- WORK ZONE SIGNAL POLE
- WORK ZONE IMPACT ATTENUATOR
- DRUMS
- TYPE III BARRICADE
- DETECTOR UNIT
- WORK AREA
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (PLACED IN PHASE 1)
- ℄ WORK ZONE CENTER LINE
- S WORK ZONE STOP LINE
- W WORK ZONE WHITE EDGE LINE



PHASE 3 WORK ZONE TYPICAL SECTION

NOTES:

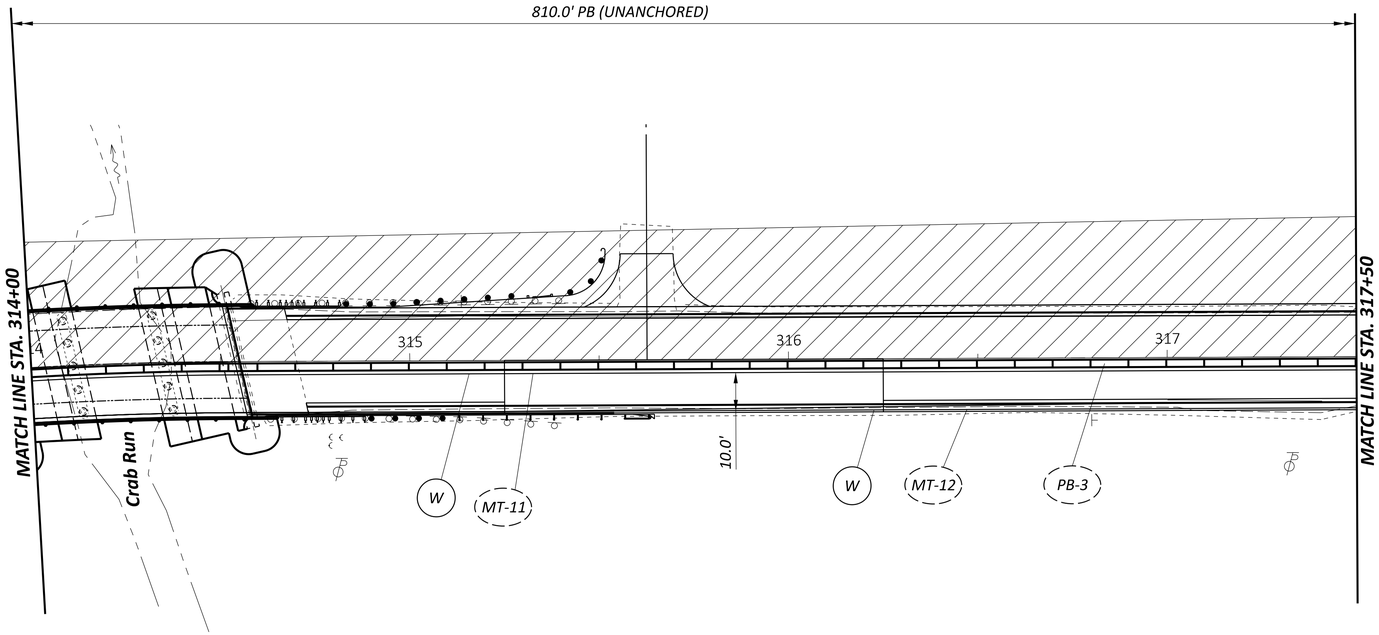
1. *FOR ADDITIONAL NOTES AND DETAILS, SEE SHEETS P.05-P.06 AND SCD'S MT-96.11 AND MT-96.20.*
2. *FOR PHASE CONSTRUCTION SEQUENCE, SEE SHEET NO. P.05.*
3. *FOR PHASE 3 WORK ZONE TRAFFIC SIGNAL TIMING AND PHASING, SEE SHEET NO. P.06.*
4. *FOR PHASE 2 MAINTENANCE OF TRAFFIC PLAN, SEE SHEETS P.07-P.08.*
5. *FOR M.O.T. ESTIMATED QUANTITIES, SEE SHEET P.11.*

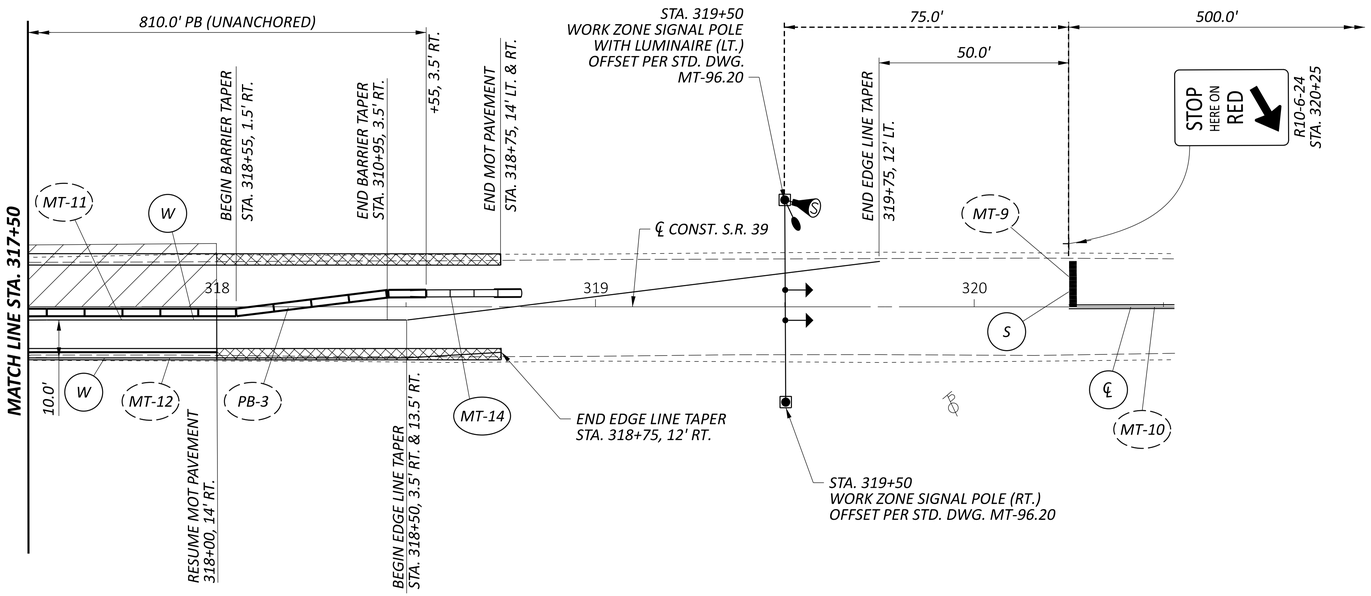
HORIZONTAL SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 3
STA. 308+40 TO STA. 314+00

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.09 TOTAL 64





NOTES:

1. *FOR ADDITIONAL NOTES AND DETAILS, SEE SHEETS P.05-P.06 AND SCD'S MT-96.11 AND MT-96.20.*
2. *FOR PHASE CONSTRUCTION SEQUENCE, SEE SHEET NO. P.06.*
3. *FOR PHASE 3 WORK ZONE TRAFFIC SIGNAL TIMING AND PHASING, SEE SHEET NO. P.06.*
4. *FOR PHASE 2 MAINTENANCE OF TRAFFIC PLAN, SEE SHEET NO. P.07-P.08.*
5. *FOR PHASE 3 WORK ZONE TYPICAL, SEE SHEET P.09.*
6. *FOR M.O.T. LEGEND, SEE SHEET P.09.*
7. *FOR M.O.T. ESTIMATED QUANTITIES, SEE SHEET P.11.*

HORIZONTAL
SCALE IN FEET
0 10 20 40

MAINTENANCE OF TRAFFIC PLAN - PHASE 3
STA. 314+00 TO STA. 320+55

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.10 TOTAL 64

HOL-39-5.87

SHEET NO.	REFERENCE NO.	STATION		SIDE	614											622							
					WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I		WORK ZONE STOP LINE, CLASS I,740.06, TYPE I		WORK ZONE IMPACT ATTENUATOR, FOR 24" WIDE HAZARDS, (BIDIRECTIONAL)		OBJECT MARKER, TWO WAY	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL			PORTABLE BARRIER, UNANCHORED						
		FROM	TO		MILE	MILE		FT.		EACH		EACH	EACH			FT.						
PHASE 2																							
P.07	MT-1	303+75.00	308+75.00	CL		0.09																	
P.07	MT-2	308+75.00		RT.				12															
P.07-P.08	MT-3	308+75.00	319+75.00	RT.&LT.	0.21																		
P.07	MT-4	310+45.00		RT.						1													
P.07-P.08	MT-5	308+75.00	318+75.00	LT.	0.19																		
P.07	MT-6	311+85.00		LT.						1													
P.07	MT-7	313+15.00		LT.						1													
P.08	MT-8	318+55.00		RT.						1													
P.08	MT-9	320+25.00		LT.				12															
P.08	MT-10	320+25.00	325+25.00	CL		0.09																	
P.07	PB-1	310+45.00	311+85.00	LT.&RT.								4	4			140							
P.07-P.08	PB-2	313+15.00	318+55.00	LT.&RT.								12	12			540							
PHASE 3																							
P.09-P.10	MT-11	309+25.00	319+75.00	LT.&RT.	0.20																		
P.09-P.10	MT-12	310+25.00	319+75.00	RT.	0.18																		
P.09	MT-13	310+45.00		LT.						1													
P.10	MT-14	318+55.00		LT.						1													
P.09-P.10	PB-3	310+45.00	318+55.00	LT.&RT.								18	18			810							
TOTALS CARRIED TO GENERAL SUMMARY					**0.78**	**0.18**		**24**		**6**		**34**	**34**			**1490**							

MAINTENANCE OF TRAFFIC ESTIMATED QUANTITIES

DESIGN AGENCY

DESIGNER MVC

REVIEWER XXX MM-DD-YY

PROJECT ID 108814

SHEET P.11 TOTAL 64

HOL-39-5.87

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.04	P.05	P.06	P.11	P.14	P.18	P.37	P.39	P.42	P.45			OFFICE CALCS.	01/BRO		EXT	TOTAL			
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
		56										274	330	202	23000	330	SY	PAVEMENT REMOVED	
					393	36							429	202	38000	429	FT	GUARDRAIL REMOVED	
				161									161	203	10000	161	CY	EXCAVATION	
				466									466	203	20000	466	CY	EMBANKMENT	
												299	299	204	10000	299	SY	SUBGRADE COMPACTION	
					293.75								293.75	606	15100	293.75	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
					1								1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
					3								3	606	26550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
					4								4	606	34600	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
														623	39600		EACH	MONUMENT ASSEMBLY RECONSTRUCTED TO GRADE	
																		EROSION CONTROL	
					337								337	601	32110	337	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	
				2									2	659	00100	2	EACH	SOIL ANALYSIS TEST	
				264									264	659	00300	264	CY	TOPSOIL	
				2,376									2,376	659	10000	2,376	SY	SEEDING AND MULCHING	
				119									119	659	14000	119	SY	REPAIR SEEDING AND MULCHING	
				0.32									0.32	659	20000	0.32	TON	COMMERCIAL FERTILIZER	
				0.49									0.49	659	31000	0.49	ACRE	LIME	
				15									15	659	35000	15	MGAL	WATER	
													LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
													LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
													LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
													19,000	832	30000	19,000	EACH	EROSION CONTROL	
																		PAVEMENT	
				1,819									1,819	254	01000	1,819	SY	PAVEMENT PLANING, ASPHALT CONCRETE, (VARIABLE DEPTH, 0" MIN. TO 6" MAX.)	
						5						61	66	301	56000	66	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
						10						49	59	304	20000	59	CY	AGGREGATE BASE	
						3						225	228	407	10000	228	GAL	TACK COAT	
												60	60	441	70100	60	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M	
												84	84	441	70200	84	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449)	
				5									5	441	70200	5	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (SPOT LEVELING)	
						2							2	441	70600	2	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (DRIVEWAYS)	
																		TRAFFIC CONTROL	
							17						17	621	00100	17	EACH	RPM	
							20						20	621	54000	20	EACH	RAISED PAVEMENT MARKER REMOVED	
					13								13	626	00110	13	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
							17.5						17.5	630	02100	17.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
							15.1						15.1	630	03100	15.1	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
							11.38						11.38	630	80100	11.38	SF	SIGN, FLAT SHEET	
							3						3	630	84900	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							1						1	630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
							0.32						0.32	646	10010	0.32	MILE	EDGE LINE, 6"	
							0.13						0.13	646	10200	0.13	MILE	CENTER LINE	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER MVC

REVIEWER XXX MM-DD-YY

PROJECT ID 108814

SHEET P.12 TOTAL 64

HOL-39-5.87

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.04	P.05	P.06	P.11	P.14	P.18	P.37	P.39	P.42	P.45			OFFICE CALCS.	01/BRO		EXT	TOTAL			
																		STRUCTURE OVER 20 FOOT SPAN (HOL-39-5.87, SFN: 3800229)	
									LS				LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.42
									LS				LS	202	98000	LS		REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION	P.43
									LS				LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
									4				4	503	21100	4	CY	UNCLASSIFIED EXCAVATION	
									127				127	SPECIAL	50771200	127	FT	PILE ENCASEMENT	P.42
									12,493				12,493	509	10000	12,493	LB	EPOXY COATED STEEL REINFORCEMENT	
								100					100	509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	P.42
									12				12	510	10000	12	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
									36				36	511	34410	36	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
									1				1	511	44110	1	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	
									176				176	512	10100	176	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
									3				3	512	33000	3	SY	TYPE 2 WATERPROOFING	
									20				20	516	13600	20	SF	1" PREFORMED EXPANSION JOINT FILLER	
									152				152	517	70100	152	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
									3				3	519	11101	3	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.42
									1				1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
									6				6	844	20001	6	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (ABUTMENTS)	P.52,P.53
									6				6	844	20001	6	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (OVER PIERS)	P.44
									66				66	844	20001	66	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - TOP MAT)	P.44
									52				52	844	20001	52	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - BOTTOM MAT)	P.44
									210				210	848	10000	210	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, 1 ½" NOMINAL THICKNESS	
									138				138	848	20000	138	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
									4				4	848	30000	4	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
									6				6	848	50000	6	SY	HAND CHIPPING	
									LS				LS	848	50100	LS		TEST SLAB	
									9				9	848	50200	9	CY	FULL-DEPTH REPAIR	
																		MAINTENANCE OF TRAFFIC	
			6										6	614	12384	6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	
	2												2	614	12740	2	EACH	WORK ZONE LIGHTING SYSTEM	
	10												10	614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			34										34	614	13310	34	EACH	BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL	
		8											8	614	13312	8	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
			34										34	614	13360	34	EACH	OBJECT MARKER, TWO WAY	
			0.18										0.18	614	21200	0.18	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
	0.05												0.05	614	21550	0.05	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT	
			0.78										0.78	614	22210	0.78	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
	0.1												0.1	614	22360	0.1	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
			24										24	614	26400	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
		LS											LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
		453											453	615	20001	453	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	P.05
		10											10	616	10000	10	MGAL	WATER	
			1,490										1,490	622	41100	1,490	FT	PORTABLE BARRIER, UNANCHORED	
																		INCIDENTALS	
	LS												LS	614	11000	LS		MAINTAINING TRAFFIC	
													7	619	16010	7	MNTH	FIELD OFFICE, TYPE B	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER MVC

REVIEWER XXX MM-DD-YY

PROJECT ID 108814

SHEET P.13 TOTAL 64

HOL-39-5.87

SEEDING AND MULCHING CALCULATIONS

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

ITEM 659 - SOIL ANALYSIS TEST ***2 EACH***
264 C.Y. x 1 TEST/10000 C.Y. = 0.026 EACH (MIN. OF 2 EACH)

ITEM 659 - TOPSOIL ***264 CU. YD.***
2376 S.Y. x 111 C.Y./1000 S.Y. = 263.74 CU. YD.

ITEM 659 - REPAIR SEEDING AND MULCHING ***119 SQ. YD.***
2376 S.Y. x 0.05 = 118.80 SQ. YD.

ITEM 659 - COMMERCIAL FERTILIZER ***0.32 TON***
2376 S.Y. x 9 x 30 LBS/1000 S.F./2000 LB/TON = 0.32 TON

ITEM 659 - LIME ***0.49 ACRES***
2376 S.Y. x (9 S.F./S.Y.)/(43560 S.F./ACRE) = 0.49 ACRES

ITEM 659 - WATER ***15 M. GAL***
2376 S.Y. x 9 x 300 GAL/1000 S.F. x 2 APP./1000 S.F. = 12.83 M. GAL.

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.

EARTHWORK AND SEEDING TABLE

SHEET NO.	203 EXCAVATION CU YD	203 EMBANKMENT CU YD	659 SEEDING AND MULCHING SQ YD
S.R. 39			
P.19	0	13	125
P.20	0	18	181
P.21	0	8	114
P.22	0	12	137
P.23	16	33	225
P.24	55	73	198
P.25	0	9	52
P.27	0	7	52
P.28	4	6	16
P.29	33	60	162
P.30	41	52	239
P.31	12	36	241
P.32	0	34	230
P.33	0	54	224
P.34	0	41	144
P.35	0	10	36
TOTALS CARRIED TO GENERAL SUMMARY	**161**	**466**	**2,376**

S.R. 39 PAVEMENT WEDGE AND PAVEMENT PLANING TABLE

441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), AS PER PLAN, SPOT LEVELING	ASPHALT END AREA	PAVEMENT SURFACE ELEVATION AT SAWCUT (LEFT)		STATION	PAVEMENT SURFACE ELEVATION AT CENTERLINE		OFFSET AND SIDE FROM | WHERE PLANING AND PAVEMENT WEDGE = 0			PAVEMENT SURFACE ELEVATION AT SAWCUT (RIGHT)		END WIDTH	254 PAVEMENT PLANING, ASPHALT CONCRETE, VARIES 0" MIN. TO 6" MAX.
CU. YD.	SQ. FT.	EXISTING	PROPOSED		EXISTING	PROPOSED	OFFSET (FT.)	SIDE	EX. ELEV.	EXISTING	PROPOSED	FT.	SQ. YD.
				311+00.00								25	
													277.78
	0	1071.56	1071.63	312+00.00	1071.64	1071.68				1000.4	1000.38	25	
0.06													65.01
	0.12	1071.27	1071.28	312+25.00	1071.19	1071.26	7.81	RT.	999.89	1070.71	1071.04	21.81	
0.06													63.74
	0.01	1071.16	1071.04	312+50.00	1070.9	1070.94	10.08	RT.	1000.29	1070.41	1070.68	24.08	
0.04													65.44
	0.08	1071.24	1070.91	312+75.00	1070.81	1070.72	5.84	RT.	1070.24	1070.12	1070.44	23.04	
				BACK/AHEAD									
	0.08	1071.24	1070.91	312+75.00	1070.81	1070.72	5.84	RT.	1070.24	1070.12	1070.44	9.04	
0.04													27.83
	0			313+00.00								11	
													30.56
				313+25.00								11	
				BACK/AHEAD									
				313+25.00								25	
													141.08
				313+75.79								25	
				BACK/AHEAD									
				313+75.79								28	
													46.67
	0			313+90.79								28	
BRIDGE LIMITS													
	0			314+55.10								28	
0.03													43.43
	0.1	1071.92	1072.18	314+70.10	1071.73	7071.84	10.11	LT.	1071.9	1071.51	1071.51	24.11	
0.04													11.29
	0.36	1071.91	1072.22	314+75.00	1071.79	1071.89	6.36	LT.	1071.83	1071.53	1071.56	17.36	
0.42													52.33
	0.54	1072.11	1072.44	315+00.00	1072.22	1072.16	9.32	LT.	1072.15	1071.97	1071.83	20.32	
0.44													57.39
	0.4	1072.4	1072.7	315+25.00	1072.65	1072.44	10	LT.	1072.42	1072.49	1072.11	21	
				BACK/AHEAD									
	0.4	1072.4	1072.7	315+25.00	1072.65	1072.44	10	LT.	1072.42	1072.49	1072.11	10	
0.51													30.89
	0.7	1072.77	1072.96	315+50.00	1073.03	1072.75	12.24	LT.	1072.73	1072.9	1072.39	12.24	
0.33													35.51
	0.01	1073.18	1073.33	315+75.00	1073.42	1073.16	13.33	LT.	1073.12	1073.36	1072.83	13.33	
0.05													35.88
	0.09	1073.62	1073.81	316+00.00	1073.84	1073.68	12.5	LT.	1073.58	1073.82	1073.35	12.5	
0.21													29.58
	0.37	1074.09	1074.15	316+25.00	1074.3	1074.3	8.8	LT.	1074.07	1074.26	1073.97	8.8	
				BACK/AHEAD									
	0.37	1074.09	1074.15	316+25.00	1074.3	1074.3	8.8	LT.	1074.07	1074.26	1073.97	19.8	
0.41													53.25
	0.52	1074.74	1075	316+50.00	1074.98	1075.02	7.54	LT.	1074.81	1074.97	1074.7	18.54	
0.65													49.13
	0.89	1075.49	1075.88	316+75.00	1075.74	1075.86	5.83	LT.	1075.62	1075.74	1075.52	16.83	
0.74													46.99
	0.7	1076.41	1076.77	317+00.00	1076.64	1076.79	6	LT.	1076.51	1076.62	1076.42	17	
0.43													51.06
	0.23	1077.49	1077.78	317+25.00	1077.73	1077.83	8.76	LT.	1077.54	1077.63	1077.51	19.76	
				BACK/AHEAD									
	0.23			317+25.00								25	
0.11													69.44
	0			317+50.00								25	
													534.72
				318+00.00								25	
5	**TOTALS CARRIED TO GENERAL SUMMARY**												**1819**

CALCULATIONS

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.14 TOTAL 64

HOL-39-5.87

USGS MAP: GLENMONT, OHIO

LATITUDE: N 40° 36'05"**
LONGITUDE: W 82° 07'20"**

** LATITUDE AND LONGITUDE TO APPROXIMATELY THE CENTER OF PROJECT

WASHINGTON TOWNSHIP

BEGIN PROJECT
STA. 311+00.00
SLM 5.87

E250(484)

END PROJECT
STA. 318+00.00
SLM 4.00

E250(484)

LAND USE: AGRICULTURAL

WETLAND A

BRIDGE NO.
HOL-39-05.940

Crab Run

LAND USE: AGRICULTURAL

℄ CONST. S.R. 179

S.R. 39

Ex SH

309 310 311 312 313 314 315 316 317 318 319 320

WETLAND A

LAND USE: RESIDENTIAL

LAND USE: AGRICULTURAL

Crab Run

LAND USE: AGRICULTURAL

HORIZONTAL SCALE IN FEET
0 20 40 80

LEGEND

WETLAND AREA

STRUCTURES KEY

RESIDENTIAL BUILDING

COMMERCIAL BUILDING

AGRICULTURAL BUILDING

PROJECT DATA

TOTAL AREA (RIGHT OF WAY)	----------	1.24 Ac.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	---------- 0.73
PROJECT EARTH DISTURBED AREA	----------	0.7 Ac.	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	---------- 0.75
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	----------	0.3 Ac.	POST CONSTRUCTION BMP: NONE REQUIRED	
NOTICE OF INTENT EARTH DISTURBED AREA	----------	1 Ac.		
IMPERVIOUS (PAVED AREA) FOR PRE-CONSTRUCTION SITE	----------	0.47 Ac.	IMMEDIATE RECEIVING WATERS	---------- Crab Run
IMPERVIOUS (PAVED AREA) FOR POST-CONSTRUCTION SITE	----------	0.51 Ac.	SUBSEQUENT RECEIVING WATERS	---------- Lake Fork Mohican River

PROJECT DESCRIPTION

IMPROVE 0.13 MILES (700 FT.) OF S.R. 39 IN WASHINGTON TOWNSHIP OF HOLMES COUNTY BY REPAIRING BRIDGE NO. HOL-39-05.940 OVER CRAB RUN. IMPROVEMENTS INCLUDE A NEW MICRO SILICA OVERLAY WEARING SURFACE OVER DECK, NEW DECK SLAB EDGE BEAMS, NEW BRIDGE RAILING, NEW APPROACH GUARDRAIL, ABUTMENT REPAIRS, NEW ROCK CHANNEL PROTECTION, AND ENCASEMENT OF PIERS. IN ADDITION, APPROACH WORK TO ADJUST THE PROFILE AND SUPERELEVATION WILL BE PERFORMED WITH FULL DEPTH REPAIRS, PLANING, AND RESURFACING, WITH GUARDRAIL REPLACEMENT, AND PAVEMENT MARKINGS.

PROJECT SITE PLAN

DESIGN AGENCY

DESIGNER MVC

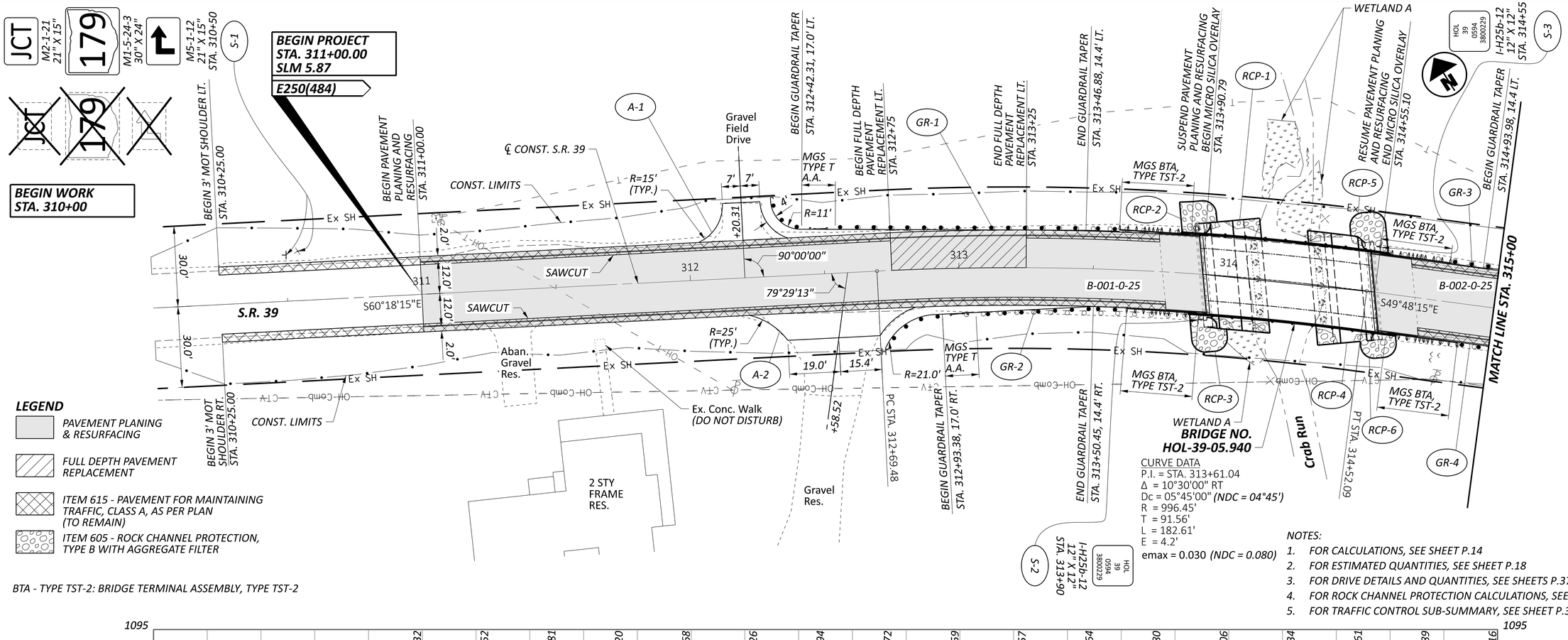
REVIEWER BSH 10/01/25

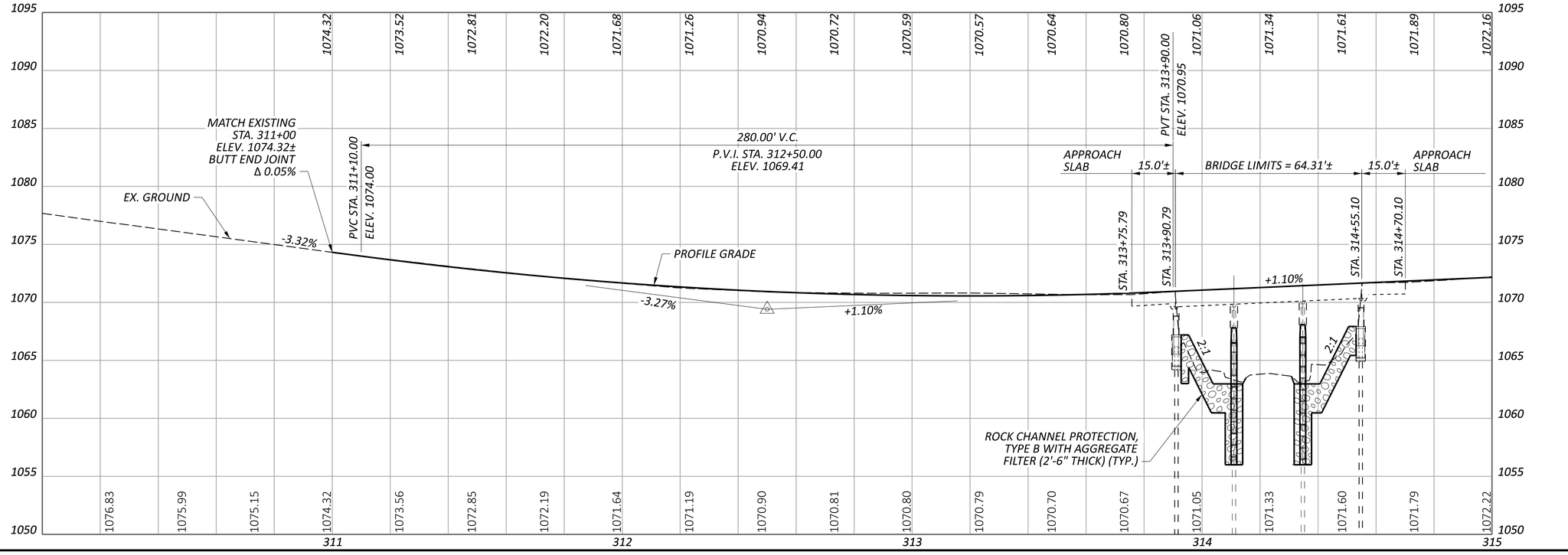
PROJECT ID 108814

SHEET P.15 TOTAL 64

HOL-39-5.87

MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:07 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Drainage\Sheets\108814_DP001.dgn



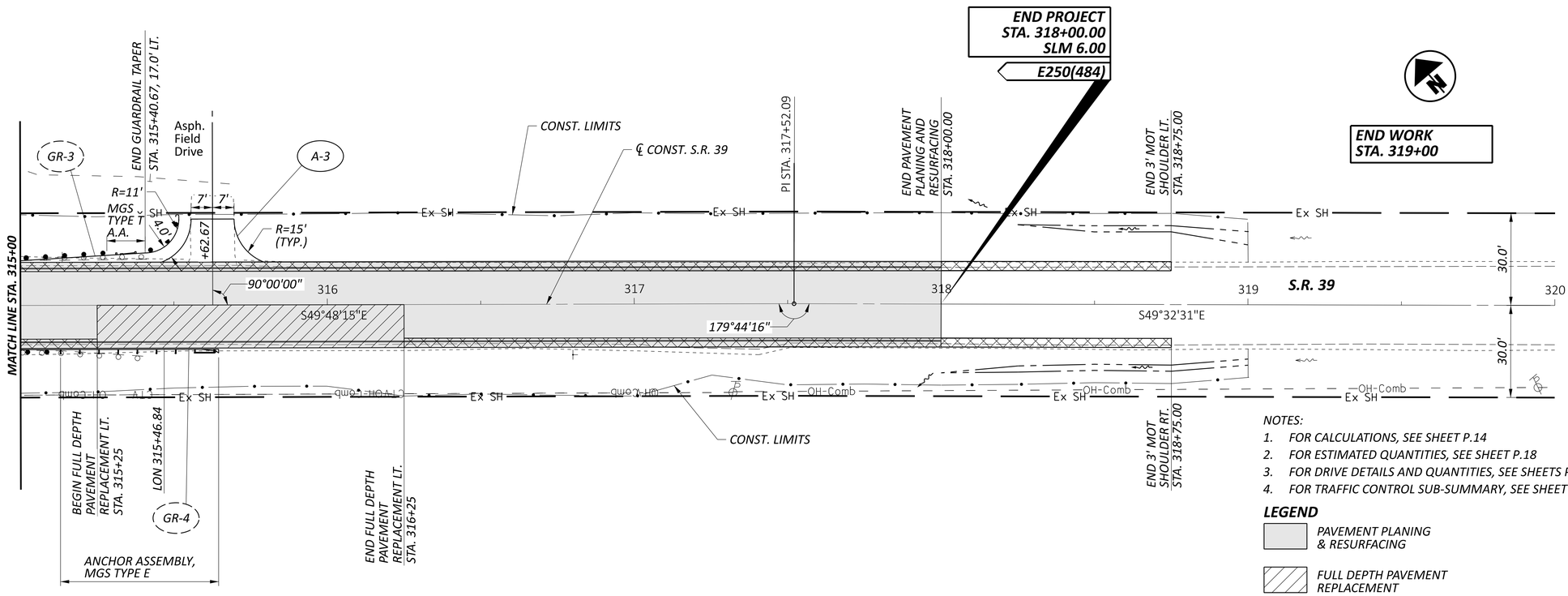


HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - S.R. 39
STA. 310+00 TO STA. 315+00

DESIGN AGENCY	
DESIGNER	MVC
REVIEWER	BSH 10/01/25
PROJECT ID	108814
SHEET	P.16
TOTAL	64

HOL-39-5.87

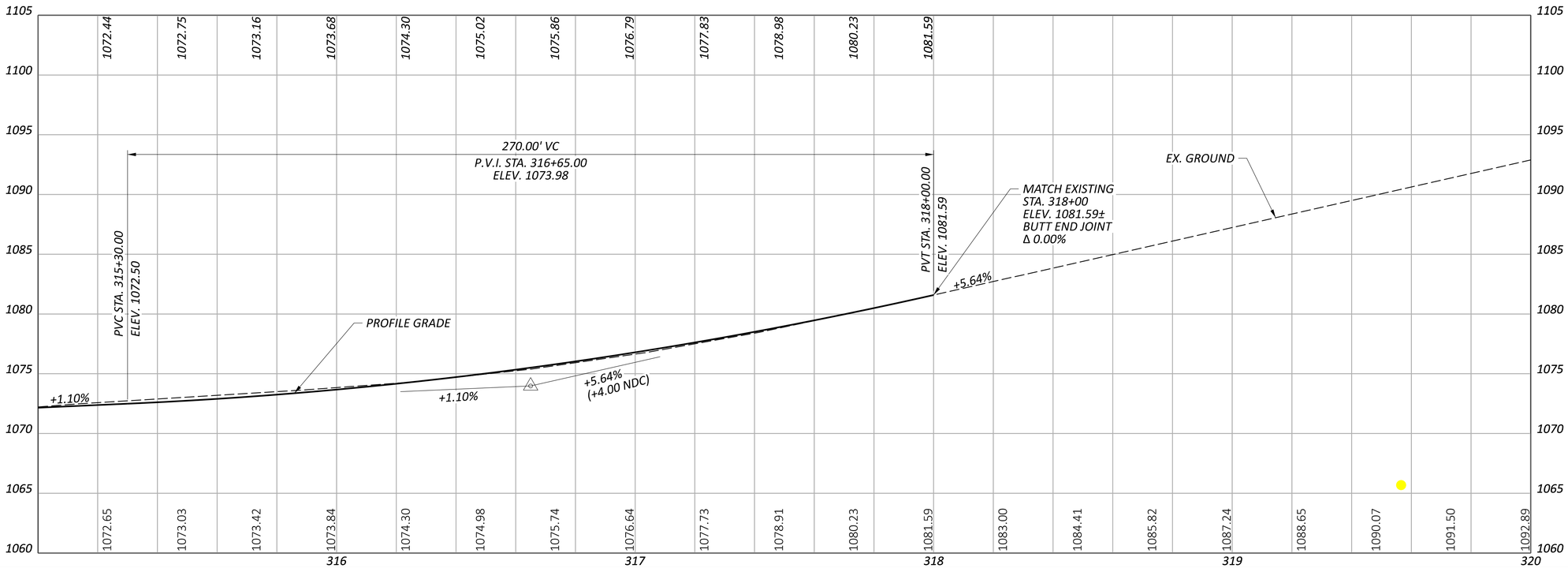


NOTES:

1. FOR CALCULATIONS, SEE SHEET P.14
2. FOR ESTIMATED QUANTITIES, SEE SHEET P.18
3. FOR DRIVE DETAILS AND QUANTITIES, SEE SHEETS P.37-P.38
4. FOR TRAFFIC CONTROL SUB-SUMMARY, SEE SHEET P.39

LEGEND

- PAVEMENT PLANING & RESURFACING
- FULL DEPTH PAVEMENT REPLACEMENT
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (TO REMAIN)



HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - S.R. 39
STA. 315+00 TO STA. 320+00

DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.17 TOTAL 64

HOL-39-5.87

MODEL: Unnamed Plan - Plan 2-1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:16 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_GP001.dgn

ROADWAY ESTIMATED QUANTITIES

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE		202		606					626		
						GUARDRAIL REMOVED		GUARDRAIL, TYPE MGS WITH LONG POSTS	ANCHOR ASSEMBLY, MGS TYPE E	ANCHOR ASSEMBLY, MGS TYPE T	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2		BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL		
						FT.		FT.	EACH	EACH	EACH		EACH		
P.16	GR-1	312+31.26	313+85.25	LT.		128		125.00		1	1		4		
P.16	GR-2	312+71.32	313+89.91	RT.		93		81.25		1	1		3		
P.16-P.17	GR-3	314+55.07	315+51.69	LT.		90		62.5		1	1		3		
P.16-P.17	GR-4	314+61.63	315+64.54	RT.		82		25.00	1		1		3		
TOTALS CARRIED TO GENERAL SUMMARY						**393**		**293.75**	**1**	**3**	**4**		**13**		

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER

RCP-1
(SLOPE)
856 S.F. - ($\pi 1'^2$ X 5 PILES) X 2.5' DEEP / 27 = 77.80 CU YD
(KEY @ ABUTMENT)
38.52' L X 2.5' W X 1.75' D / 27 = 5.35 CU YD
(KEY @ PIER 1)
(42.43' L X 6' W) - ($\pi 1'^2$ X 5 PILES) X 4.35' DEEP / 27 = 38.48 CU YD

RCP-2
125 S.F. X 6.7' AVG. DEPTH / 27 = 31.02 CU YD

RCP-3
135 S.F. X 5.6 AVG. DEPTH / 27 = 28.00 CU YD

RCP-4
(SLOPE)
842 S.F. - ($\pi 1'^2$ X 5 PILES) X 2.5' DEEP / 27 = 76.51 CU YD
(KEY @ PIER 2)
(42.13' L X 6' W) - ($\pi 1'^2$ X 5 PILES) X 4.35' DEEP / 27 = 38.19 CU YD

RCP-5
152 S.F. X 4.4' AVG. DEPTH / 27 = 24.77 CU YD

RCP-6
90 S.F. X 4.9 AVG. DEPTH / 27 = 16.33 CU YD
TOTAL = 336.45 CU YD
(USE: 337 CU YD)

ESTIMATED QUANTITIES - S.R. 39

DESIGN AGENCY

DESIGNER MVC
REVIEWER XXX MM-DD-YY
PROJECT ID 108814
SHEET P.18 TOTAL 64

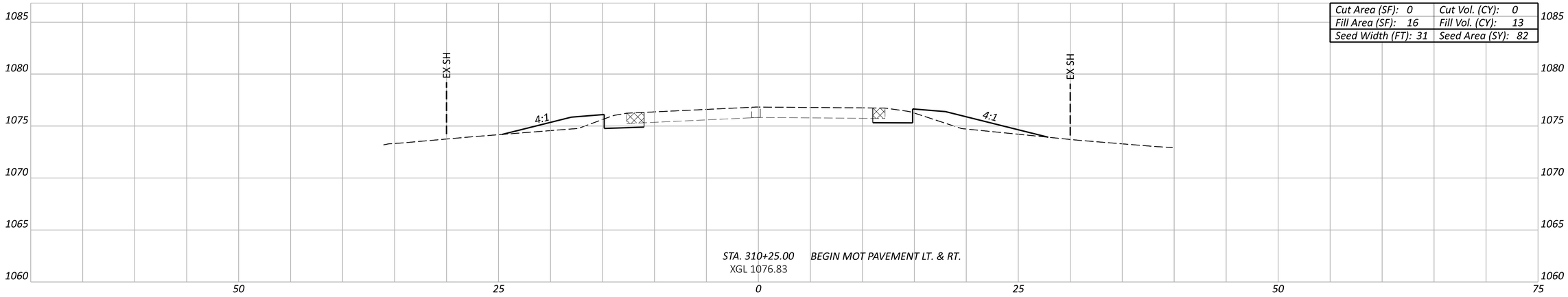
HOL-39-5.87

MODEL: Unnamed Cross Section-2 - 310+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:29 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

HOL-39-5.87

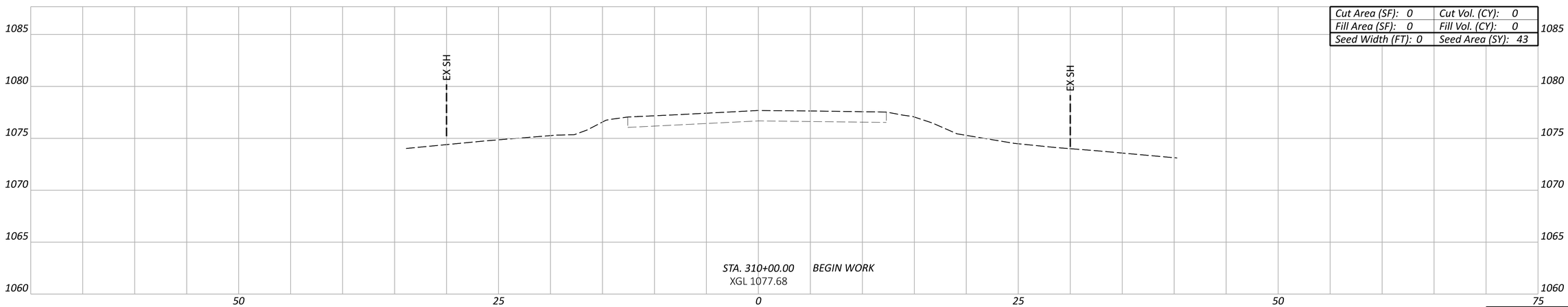
LEGEND

ITEM 202 - PAVEMENT REMOVED



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 16	Fill Vol. (CY): 13
Seed Width (FT): 31	Seed Area (SY): 82

STA. 310+25.00 BEGIN MOT PAVEMENT LT. & RT.
XGL 1076.83



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 0	Seed Area (SY): 43

STA. 310+00.00 BEGIN WORK
XGL 1077.68

Sheet Totals		
Seeding	Cut	Fill
125	0	13

CROSS SECTIONS - S.R. 39
STA. 310+00 TO STA. 310+25

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

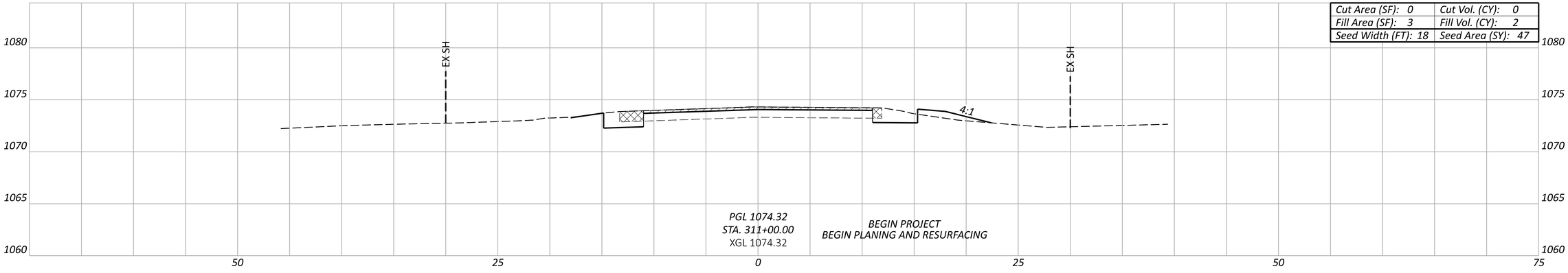
PROJECT ID 108814

SHEET P.19 TOTAL 64

LEGEND

ITEM 202 - PAVEMENT REMOVED

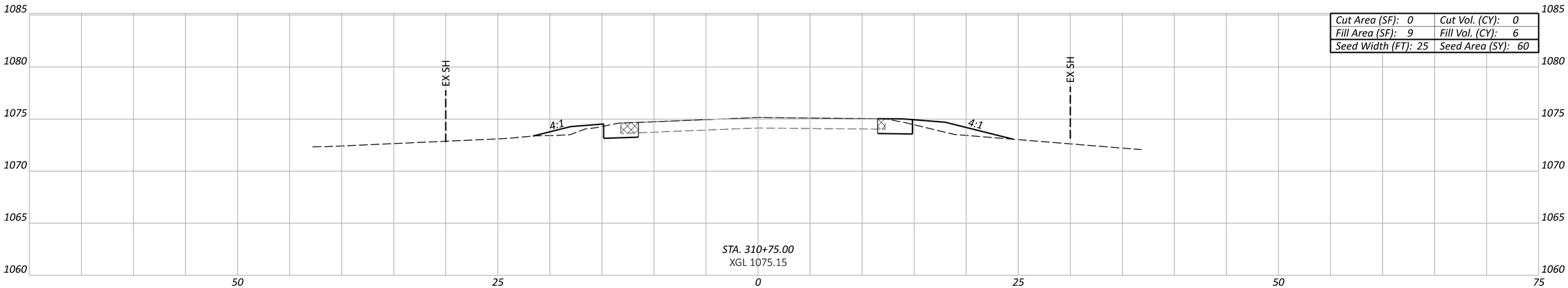
ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 3	Fill Vol. (CY): 2
Seed Width (FT): 18	Seed Area (SY): 47

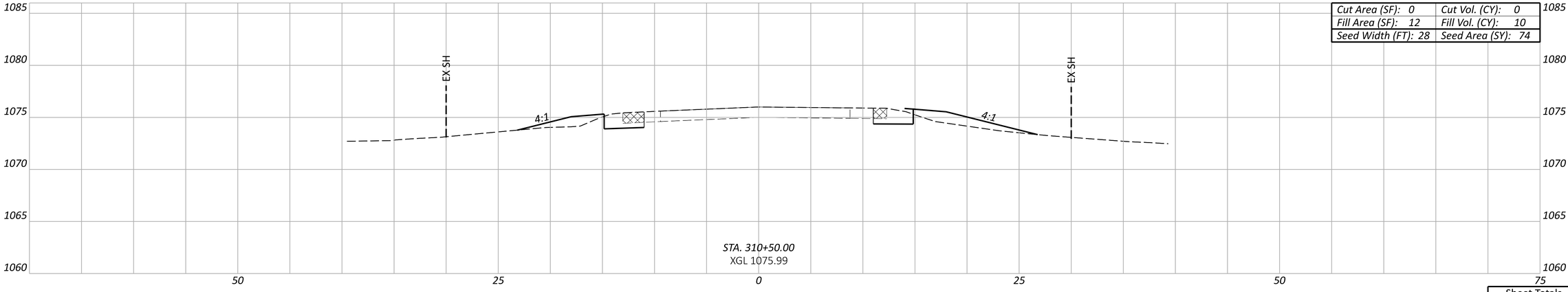
PGL 1074.32
STA. 311+00.00
XGL 1074.32

BEGIN PROJECT
BEGIN PLANING AND RESURFACING



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 9	Fill Vol. (CY): 6
Seed Width (FT): 25	Seed Area (SY): 60

STA. 310+75.00
XGL 1075.15



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 12	Fill Vol. (CY): 10
Seed Width (FT): 28	Seed Area (SY): 74

STA. 310+50.00
XGL 1075.99

Sheet Totals		
Seeding	Cut	Fill
181	0	18

CROSS SECTIONS - S.R. 39
STA. 310+50 TO STA. 311+00

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.20 TOTAL 64

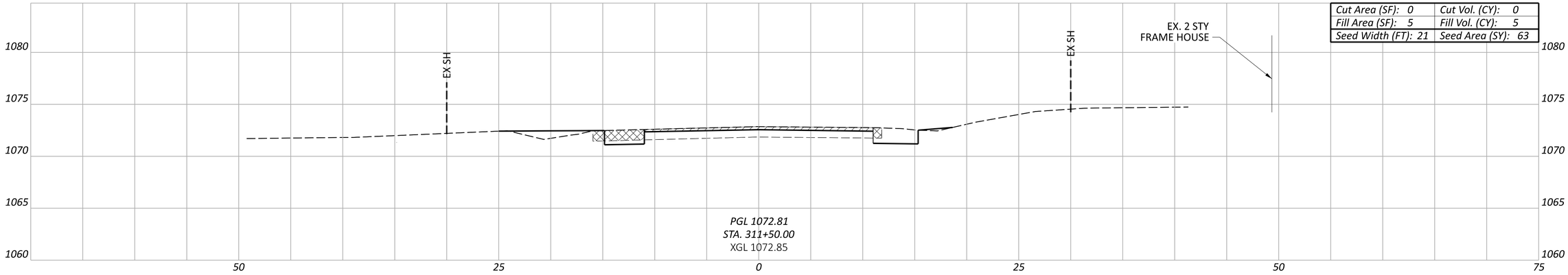
HOL-39-5.87

MODEL: BEGINNING SECTIONS - 310+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:31 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\V00-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

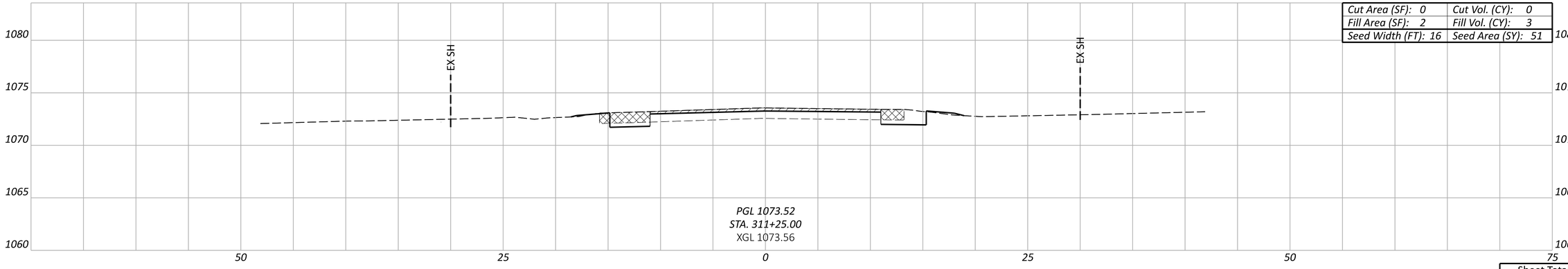
ITEM 202 - PAVEMENT REMOVED

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 5	Fill Vol. (CY): 5
Seed Width (FT): 21	Seed Area (SY): 63

PGL 1072.81
STA. 311+50.00
XGL 1072.85



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 2	Fill Vol. (CY): 3
Seed Width (FT): 16	Seed Area (SY): 51

PGL 1073.52
STA. 311+25.00
XGL 1073.56

Sheet Totals		
Seeding	Cut	Fill
114	0	8

CROSS SECTIONS - S.R. 39
STA. 311+25 TO STA. 311+50

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

SHEET P.21 TOTAL 64

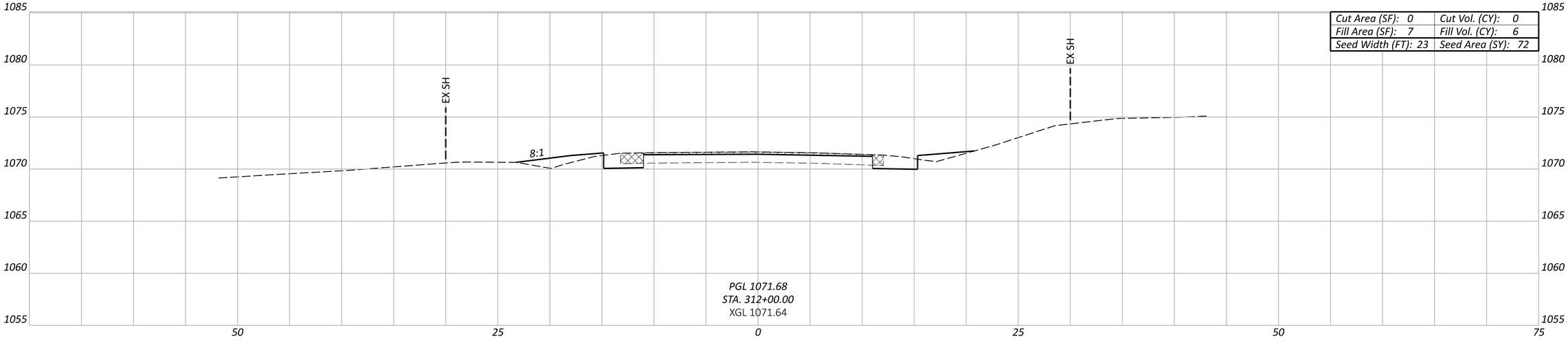
HOL-39-5.87

MODEL: BEGINNING SECTIONS - 311+25.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:31 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn
cfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
3814_XS000.dgn

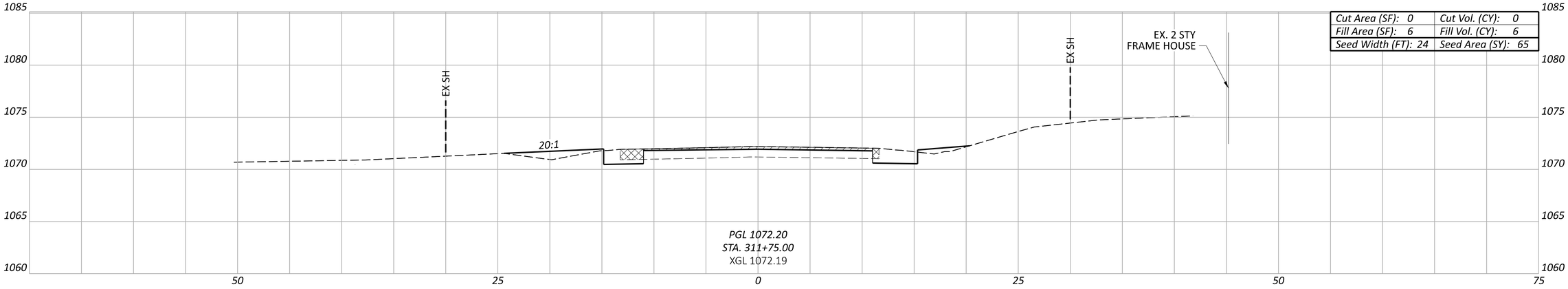
LEGEND

ITEM 202 - PAVEMENT REMOVED

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 7	Fill Vol. (CY): 6
Seed Width (FT): 23	Seed Area (SY): 72



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 6	Fill Vol. (CY): 6
Seed Width (FT): 24	Seed Area (SY): 65

CROSS SECTIONS - S.R. 39
STA. 311+75 TO STA. 312+00

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

Sheet Totals		
Seeding	Cut	Fill
137	0	12

SHEET P.22 TOTAL 64

HOL-39-5.87

MODEL: CLK_RW_S39 - 311+60.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:32 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

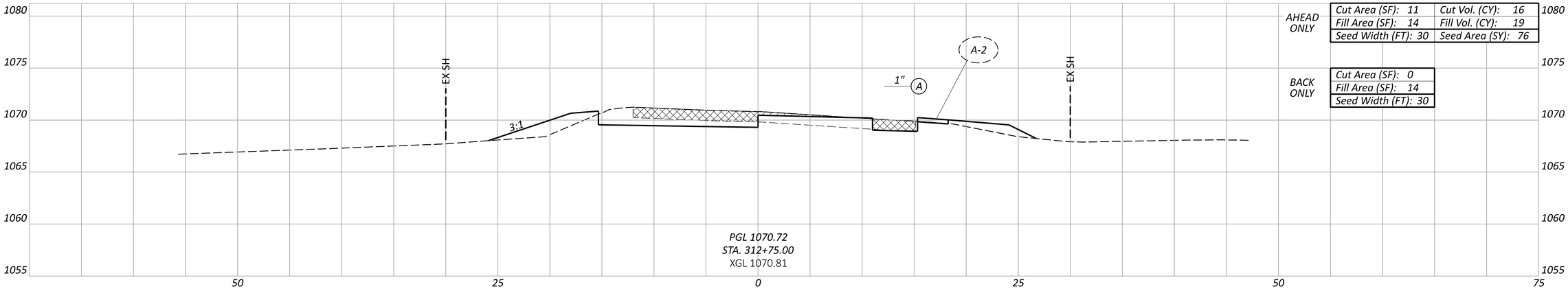
LEGEND

ITEM 202 - PAVEMENT REMOVED

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)

ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING

(A) ASPHALT THICKNESS FOR WEDGE COURSE



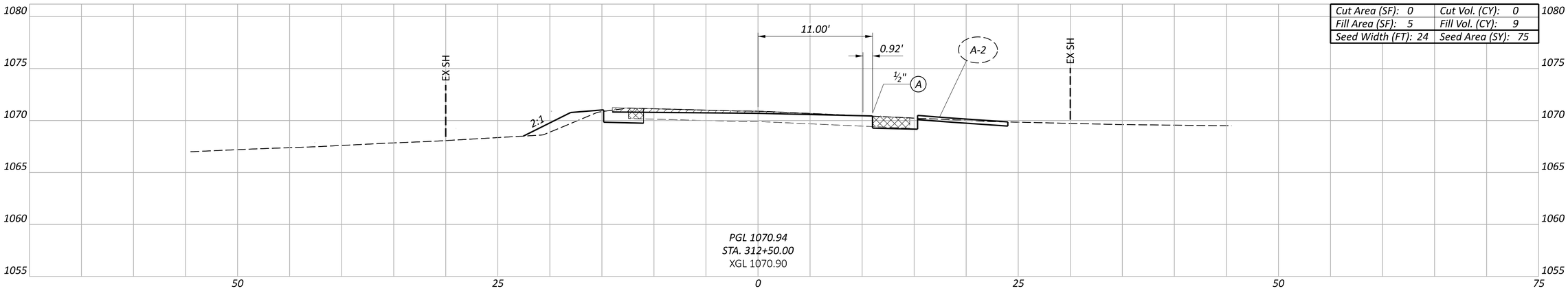
PGL 1070.72
STA. 312+75.00
XGL 1070.81

AHEAD ONLY

Cut Area (SF): 11	Cut Vol. (CY): 16
Fill Area (SF): 14	Fill Vol. (CY): 19
Seed Width (FT): 30	Seed Area (SY): 76

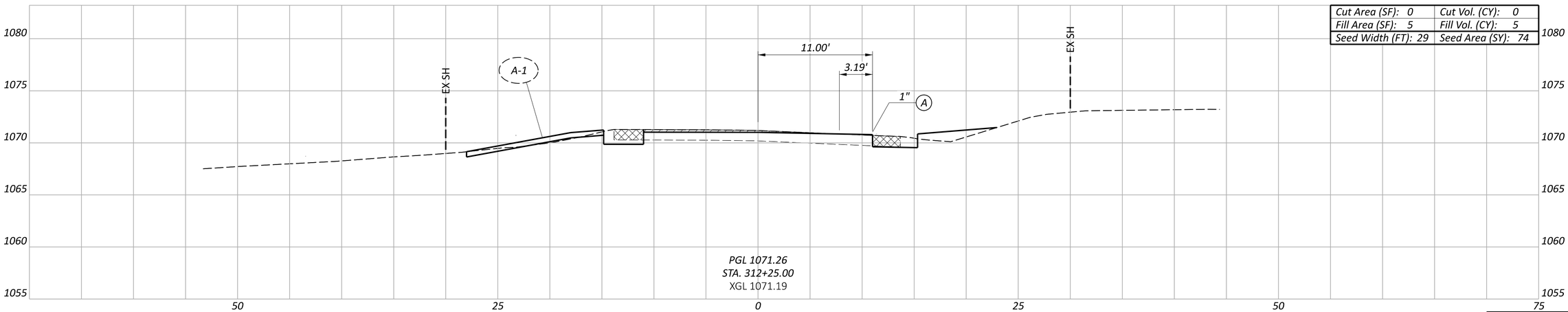
BACK ONLY

Cut Area (SF): 0	
Fill Area (SF): 14	
Seed Width (FT): 30	



PGL 1070.94
STA. 312+50.00
XGL 1070.90

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 5	Fill Vol. (CY): 9
Seed Width (FT): 24	Seed Area (SY): 75



PGL 1071.26
STA. 312+25.00
XGL 1071.19

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 5	Fill Vol. (CY): 5
Seed Width (FT): 29	Seed Area (SY): 74

Sheet Totals

Seeding	Cut	Fill
225	16	33

CROSS SECTIONS - S.R. 39
STA. 312+25 TO STA. 312+75

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.23 TOTAL 64

HOL-39-5.87

MODEL: CLX_RW_539 - 312+25.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:32 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\d00-Engineering\Roadway\Sheets\108814_XS000.dgn

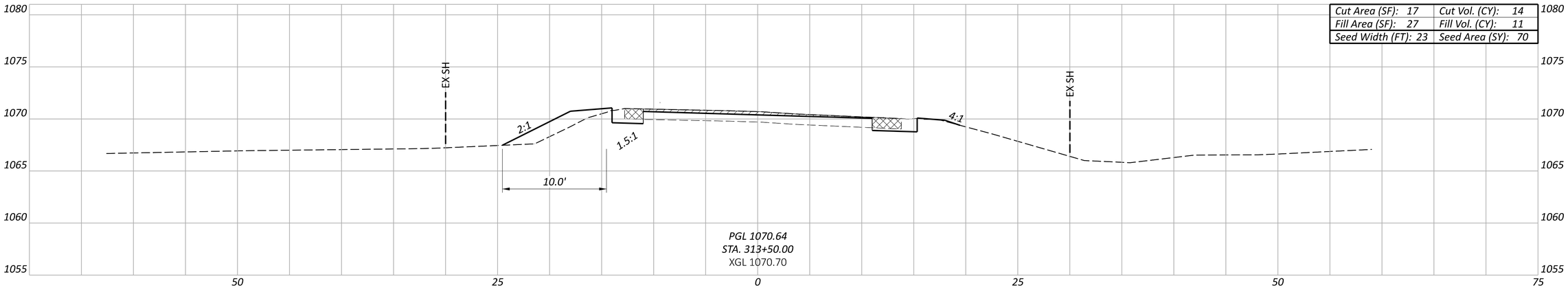
LEGEND

ITEM 202 - PAVEMENT REMOVED

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)

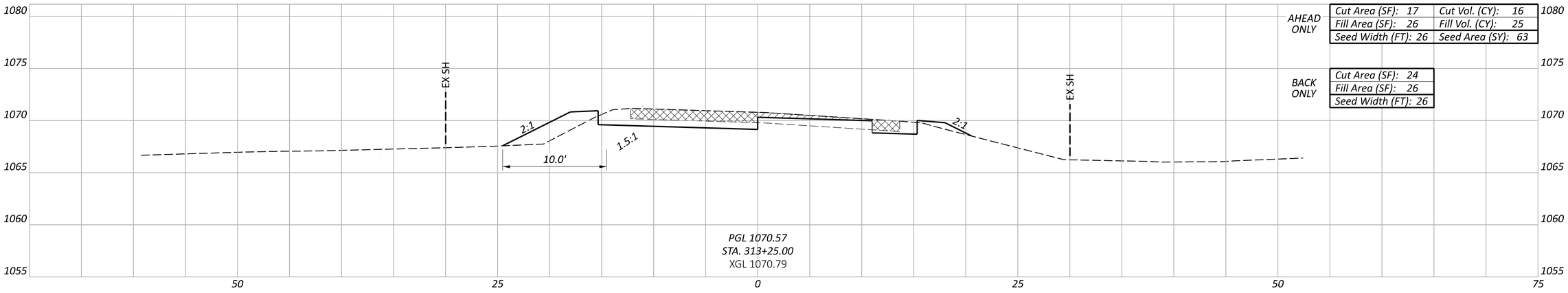
ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING

(A) ASPHALT THICKNESS FOR WEDGE COURSE



Cut Area (SF): 17	Cut Vol. (CY): 14
Fill Area (SF): 27	Fill Vol. (CY): 11
Seed Width (FT): 23	Seed Area (SY): 70

PGL 1070.64
STA. 313+50.00
XGL 1070.70



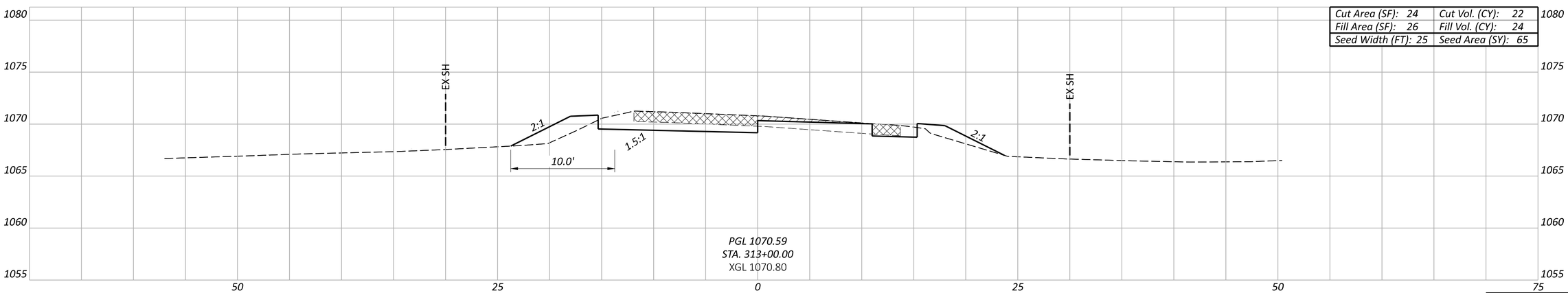
AHEAD ONLY

Cut Area (SF): 17	Cut Vol. (CY): 16
Fill Area (SF): 26	Fill Vol. (CY): 25
Seed Width (FT): 26	Seed Area (SY): 63

BACK ONLY

Cut Area (SF): 24	
Fill Area (SF): 26	
Seed Width (FT): 26	

PGL 1070.57
STA. 313+25.00
XGL 1070.79



Cut Area (SF): 24	Cut Vol. (CY): 22
Fill Area (SF): 26	Fill Vol. (CY): 24
Seed Width (FT): 25	Seed Area (SY): 65

PGL 1070.59
STA. 313+00.00
XGL 1070.80

Sheet Totals		
Seeding	Cut	Fill
198	52	73

CROSS SECTIONS - S.R. 39
STA. 313+00 TO STA. 313+50

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

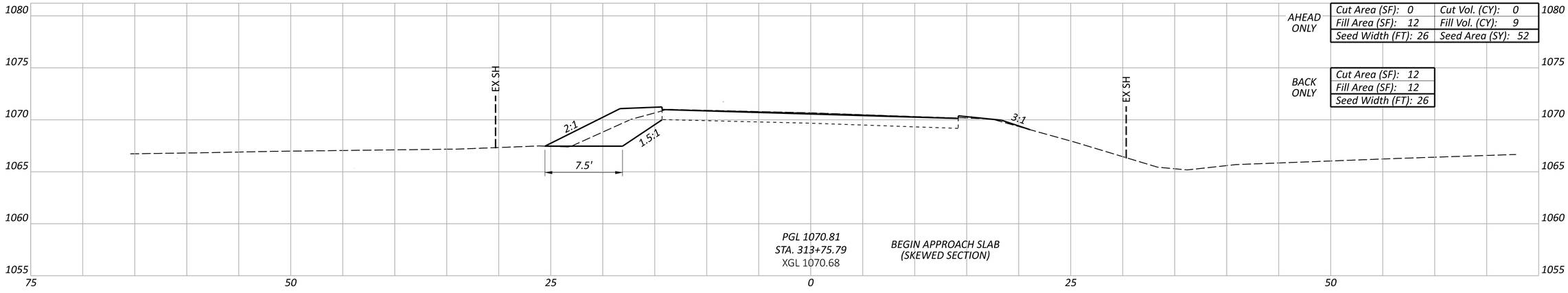
SHEET P.24 TOTAL 64

HOL-39-5.87

MODEL: CIX_RW_539 - 313+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:33 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)



AHEAD ONLY		
	Cut Area (SF): 0	Cut Vol. (CY): 0
	Fill Area (SF): 12	Fill Vol. (CY): 9
	Seed Width (FT): 26	Seed Area (SY): 52

BACK ONLY	
Cut Area (SF): 12	
Fill Area (SF): 12	
Seed Width (FT): 26	

CROSS SECTIONS - S.R. 39
STA. 313+75.79

HOL-39-5.87

MODEL: BEG REAR APP SLAB - 313+75.79 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:34 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

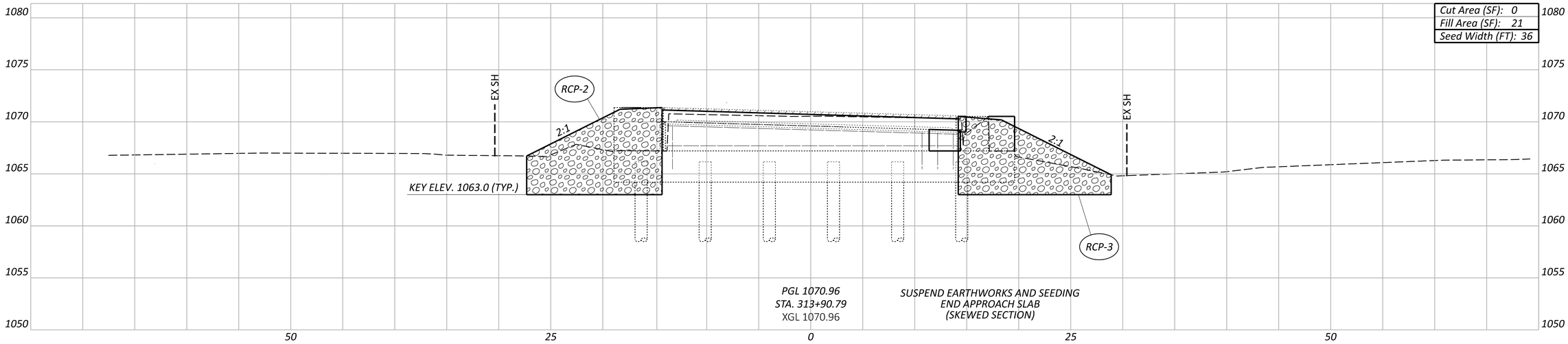
PROJECT ID 108814

Sheet Totals		
Seeding	Cut	Fill
52	0	9

SHEET P.25 TOTAL 64

LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- ITEM 605 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER
- (A) ASPHALT THICKNESS FOR WEDGE COURSE



Cut Area (SF):	0
Fill Area (SF):	21
Seed Width (FT):	36

CROSS SECTIONS - S.R. 39
STA. 313+90.79

Sheet Totals		
Seeding	Cut	Fill
0	0	0

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.26 TOTAL 64

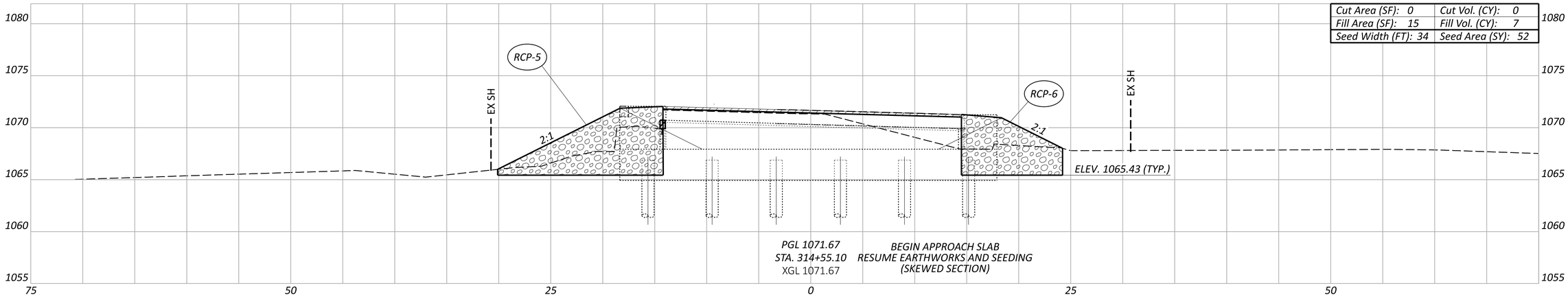
HOL-39-5.87

MODEL: END REAR APP SLAB - 313+90.79 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:34 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)

ITEM 605 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 15	Fill Vol. (CY): 7
Seed Width (FT): 34	Seed Area (SY): 52

CROSS SECTIONS - S.R. 39
STA. 314+55.10

Sheet Totals		
Seeding	Cut	Fill
52	0	7

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

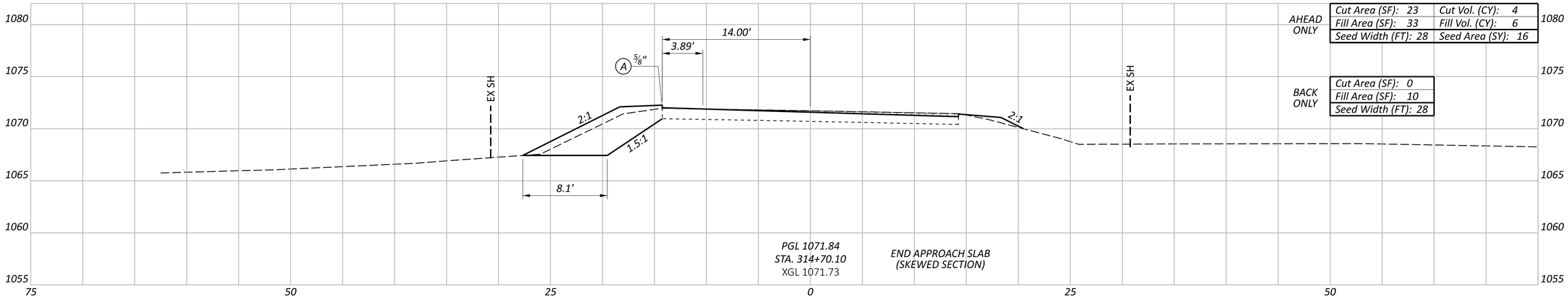
SHEET P.27 TOTAL 64

HOL-39-5.87

MODEL: BEGIN FWD APP SLAB - 314+55.10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:34 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- (A) ASPHALT THICKNESS FOR WEDGE COURSE



AHEAD ONLY		
Cut Area (SF): 23	Cut Vol. (CY): 4
Fill Area (SF): 33	Fill Vol. (CY): 6
Seed Width (FT): 28	Seed Area (SY): 16

BACK ONLY	
Cut Area (SF): 0	
Fill Area (SF): 10	
Seed Width (FT): 28	

CROSS SECTIONS - S.R. 39
STA. 314+70.10

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.28 TOTAL 64

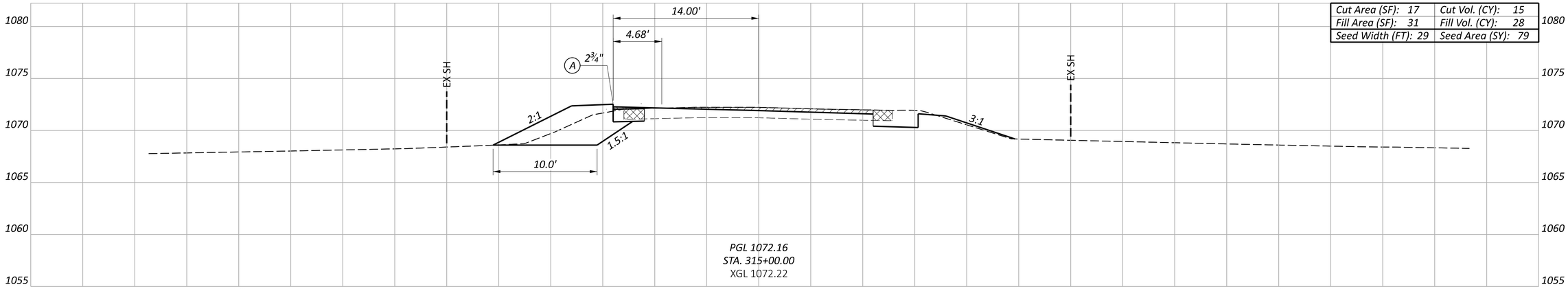
Sheet Totals		
Seeding	Cut	Fill
16	4	6

HOL-39-5.87

MODEL: END FWD APP SLAB - 314+70.10 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:35 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

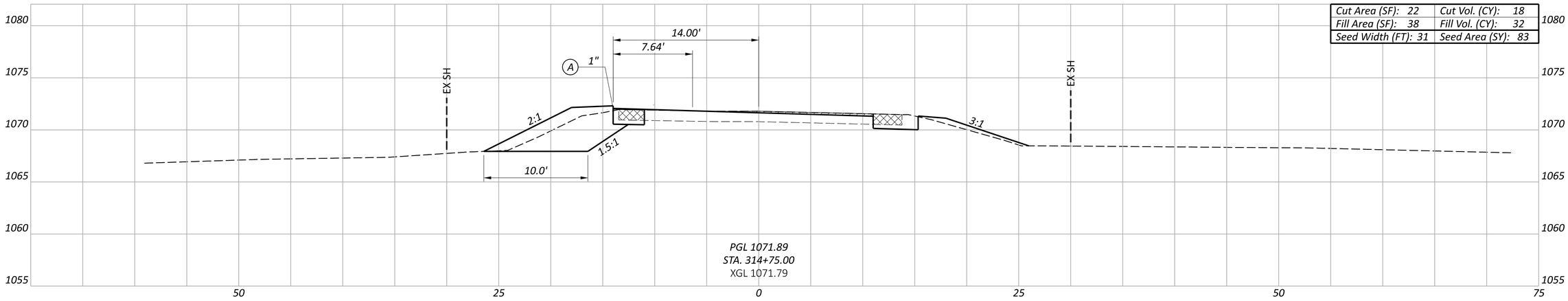
LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- (A) ASPHALT THICKNESS FOR WEDGE COURSE



Cut Area (SF): 17	Cut Vol. (CY): 15
Fill Area (SF): 31	Fill Vol. (CY): 28
Seed Width (FT): 29	Seed Area (SY): 79

PGL 1072.16
STA. 315+00.00
XGL 1072.22



Cut Area (SF): 22	Cut Vol. (CY): 18
Fill Area (SF): 38	Fill Vol. (CY): 32
Seed Width (FT): 31	Seed Area (SY): 83

PGL 1071.89
STA. 314+75.00
XGL 1071.79

CROSS SECTIONS - S.R. 39
STA. 314+75 TO STA. 315+00

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

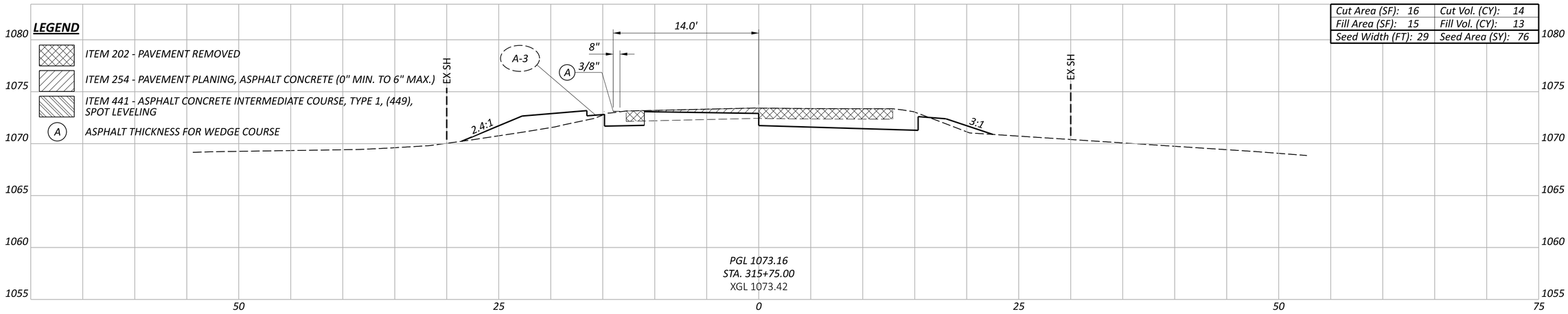
Sheet Totals		
Seeding	Cut	Fill
162	46	60

SHEET P.29 TOTAL 64

HOL-39-5.87

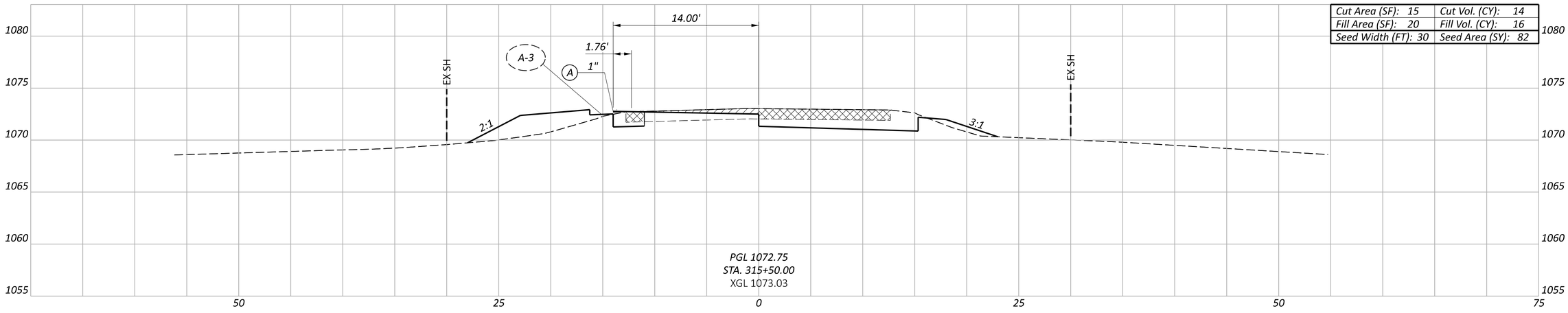
LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- (A) ASPHALT THICKNESS FOR WEDGE COURSE



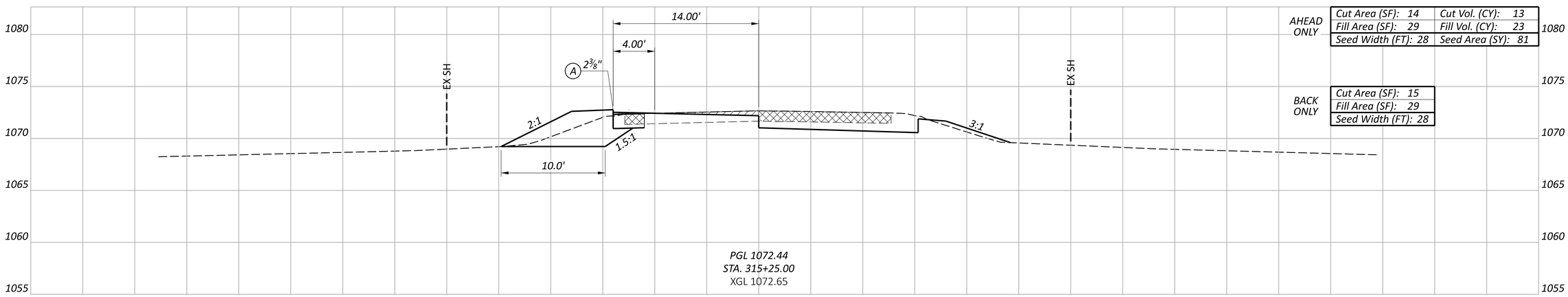
Cut Area (SF): 16	Cut Vol. (CY): 14
Fill Area (SF): 15	Fill Vol. (CY): 13
Seed Width (FT): 29	Seed Area (SY): 76

PGL 1073.16
STA. 315+75.00
XGL 1073.42



Cut Area (SF): 15	Cut Vol. (CY): 14
Fill Area (SF): 20	Fill Vol. (CY): 16
Seed Width (FT): 30	Seed Area (SY): 82

PGL 1072.75
STA. 315+50.00
XGL 1073.03



AHEAD ONLY

Cut Area (SF): 14	Cut Vol. (CY): 13
Fill Area (SF): 29	Fill Vol. (CY): 23
Seed Width (FT): 28	Seed Area (SY): 81

BACK ONLY

Cut Area (SF): 15	
Fill Area (SF): 29	
Seed Width (FT): 28	

PGL 1072.44
STA. 315+25.00
XGL 1072.65

Sheet Totals		
Seeding	Cut	Fill
239	41	52

CROSS SECTIONS - S.R. 39
STA. 315+25 TO STA. 315+75

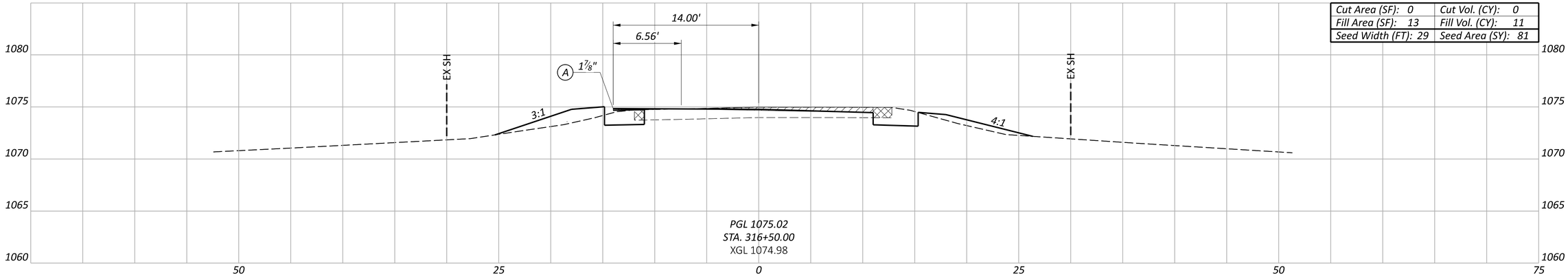
DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

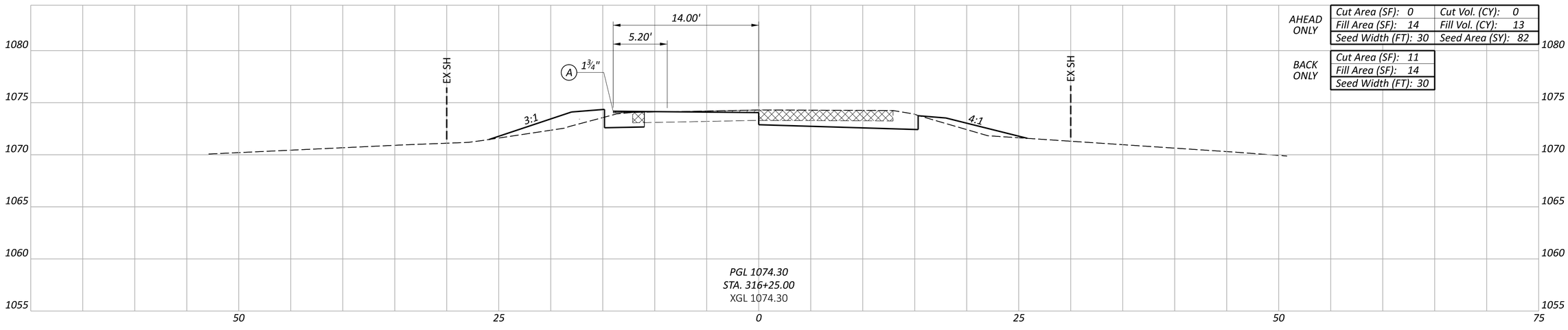
PROJECT ID 108814

SHEET P.30 TOTAL 64



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 13	Fill Vol. (CY): 11
Seed Width (FT): 29	Seed Area (SY): 81

PGL 1075.02
STA. 316+50.00
XGL 1074.98



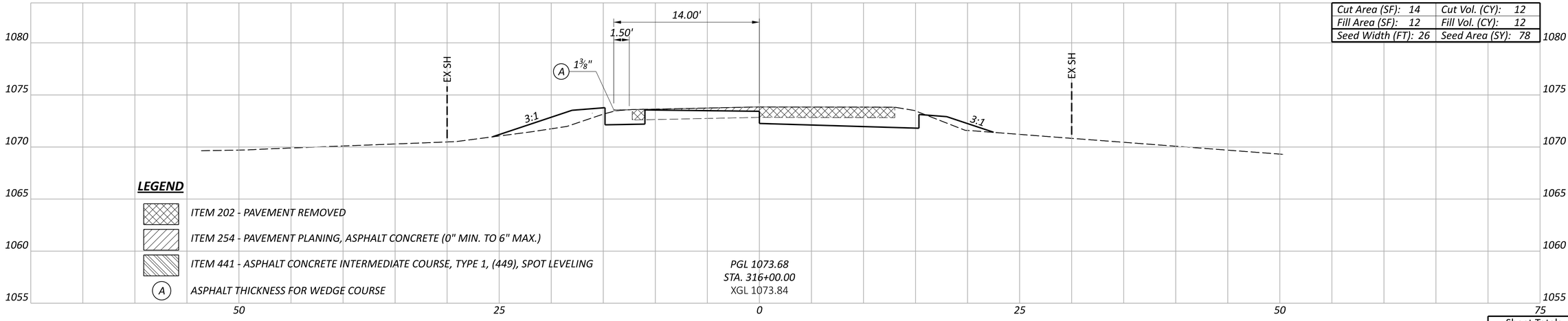
AHEAD ONLY

Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 14	Fill Vol. (CY): 13
Seed Width (FT): 30	Seed Area (SY): 82

BACK ONLY

Cut Area (SF): 11
Fill Area (SF): 14
Seed Width (FT): 30

PGL 1074.30
STA. 316+25.00
XGL 1074.30



Cut Area (SF): 14	Cut Vol. (CY): 12
Fill Area (SF): 12	Fill Vol. (CY): 12
Seed Width (FT): 26	Seed Area (SY): 78

LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- (A) ASPHALT THICKNESS FOR WEDGE COURSE

PGL 1073.68
STA. 316+00.00
XGL 1073.84

Sheet Totals		
Seeding	Cut	Fill
241	12	36

CROSS SECTIONS - S.R. 39
STA. 316+00 TO STA. 316+50

DESIGN AGENCY

DESIGNER MVC

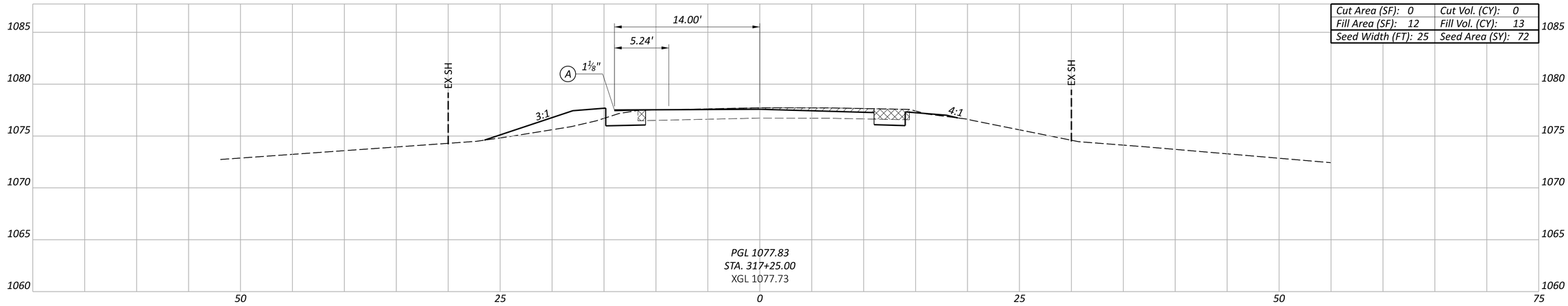
REVIEWER BSH 10/01/25

PROJECT ID 108814

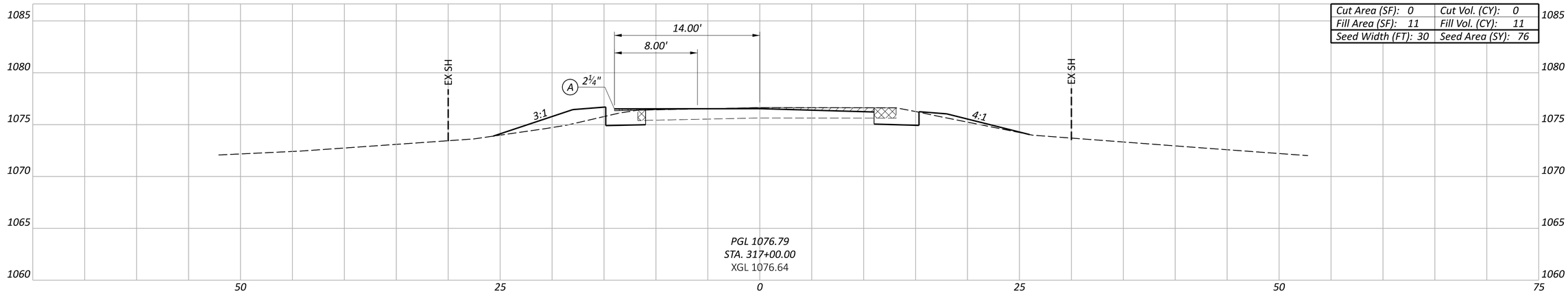
SHEET P.31 | TOTAL 64

HOL-39-5.87

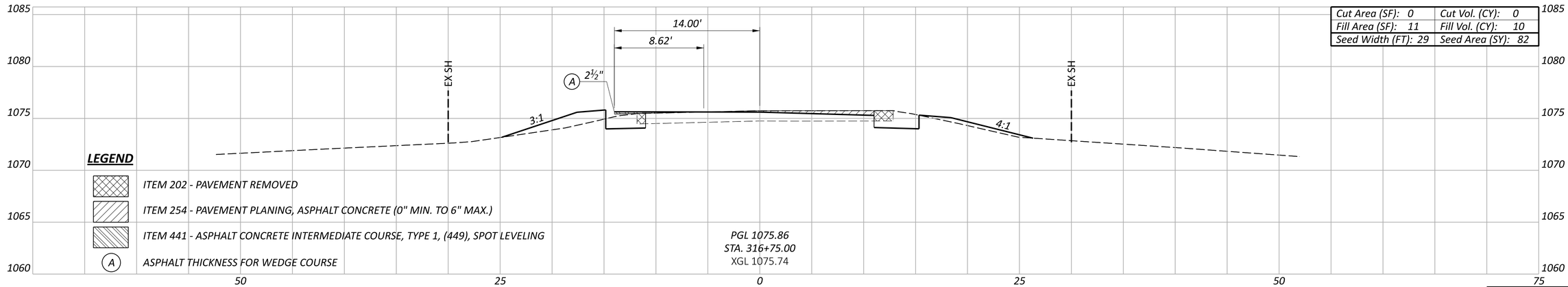
MODEL: CLX_RW_539 - 316+00.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:36 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 12	Fill Vol. (CY): 13
Seed Width (FT): 25	Seed Area (SY): 72



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 11	Fill Vol. (CY): 11
Seed Width (FT): 30	Seed Area (SY): 76



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 11	Fill Vol. (CY): 10
Seed Width (FT): 29	Seed Area (SY): 82

LEGEND

- ITEM 202 - PAVEMENT REMOVED
- ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)
- ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), SPOT LEVELING
- (A) ASPHALT THICKNESS FOR WEDGE COURSE

Sheet Totals		
Seeding	Cut	Fill
230	0	34

CROSS SECTIONS - S.R. 39
STA. 316+75 TO STA. 317+25

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.32 TOTAL 64

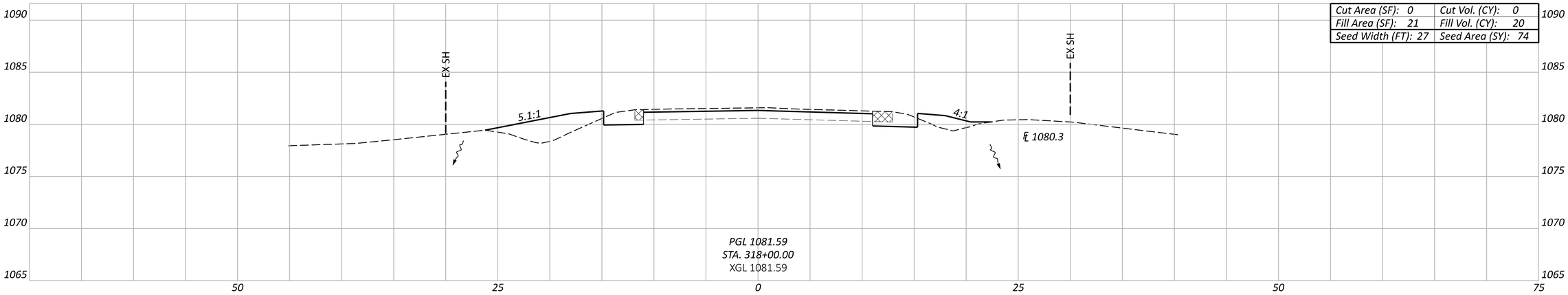
HOL-39-5.87

MODEL: Unnamed Cross Section - 316+75.00 |Sheet| PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:37 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCtv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

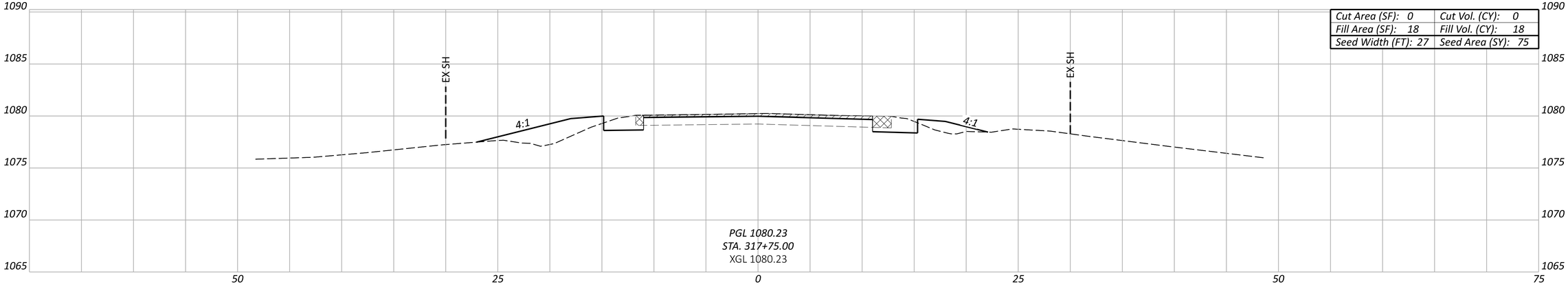
ITEM 202 - PAVEMENT REMOVED

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (0" MIN. TO 6" MAX.)



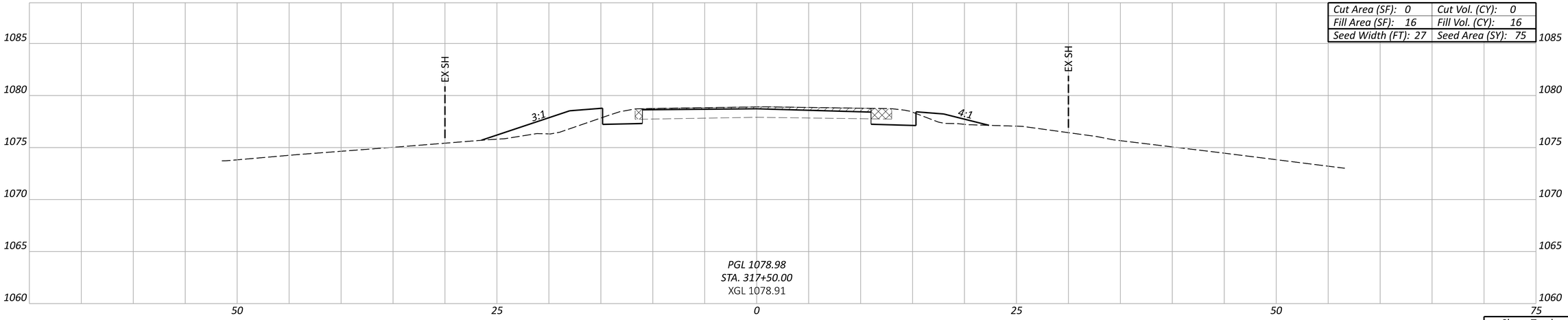
Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 21	Fill Vol. (CY): 20
Seed Width (FT): 27	Seed Area (SY): 74

PGL 1081.59
STA. 318+00.00
XGL 1081.59



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 18	Fill Vol. (CY): 18
Seed Width (FT): 27	Seed Area (SY): 75

PGL 1080.23
STA. 317+75.00
XGL 1080.23



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 16	Fill Vol. (CY): 16
Seed Width (FT): 27	Seed Area (SY): 75

PGL 1078.98
STA. 317+50.00
XGL 1078.91

Sheet Totals		
Seeding	Cut	Fill
224	18	54

CROSS SECTIONS - S.R. 39
STA. 317+50 TO STA. 318+00

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

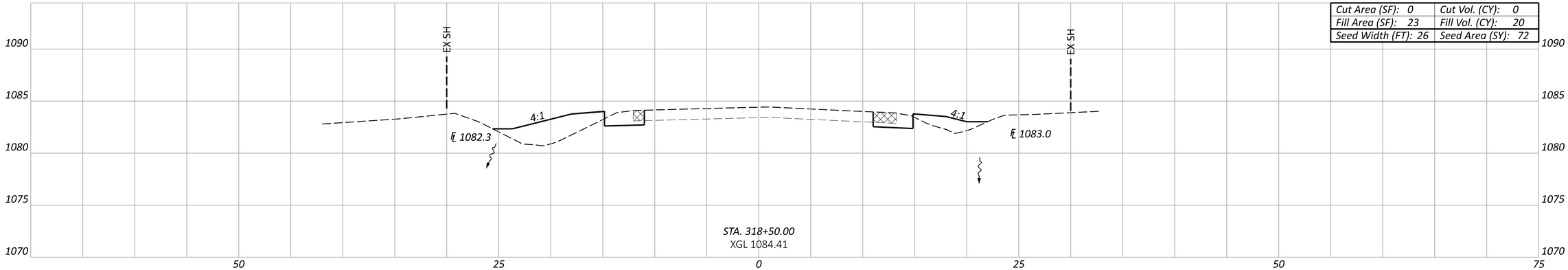
SHEET P.33 TOTAL 64

HOL-39-5.87

MODEL: Unnamed Cross Section - 317+50.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:38 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

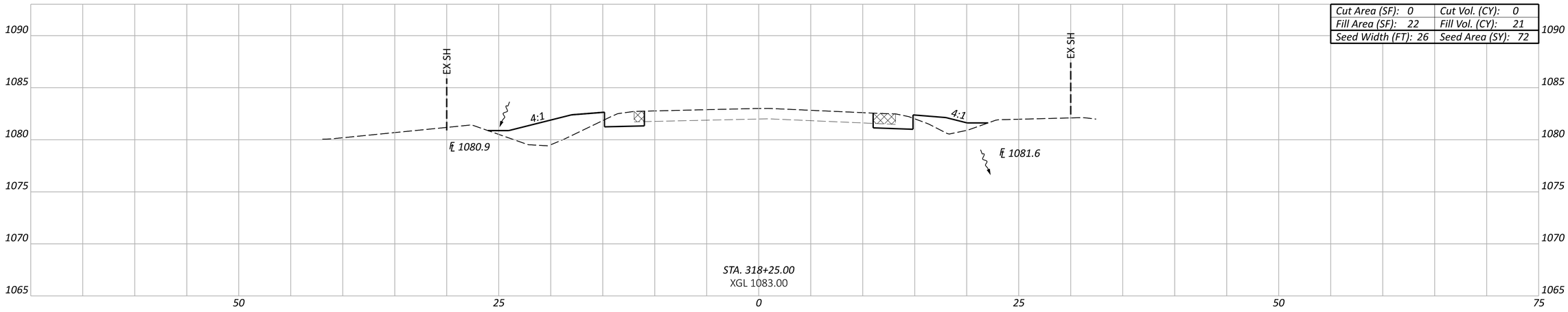
LEGEND

ITEM 202 - PAVEMENT REMOVED



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 23	Fill Vol. (CY): 20
Seed Width (FT): 26	Seed Area (SY): 72

STA. 318+50.00
XGL 1084.41



Cut Area (SF): 0	Cut Vol. (CY): 0
Fill Area (SF): 22	Fill Vol. (CY): 21
Seed Width (FT): 26	Seed Area (SY): 72

STA. 318+25.00
XGL 1083.00

CROSS SECTIONS - S.R. 39
STA. 318+25 TO STA. STA. 318+50

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

Sheet Totals		
Seeding	Cut	Fill
144	0	41

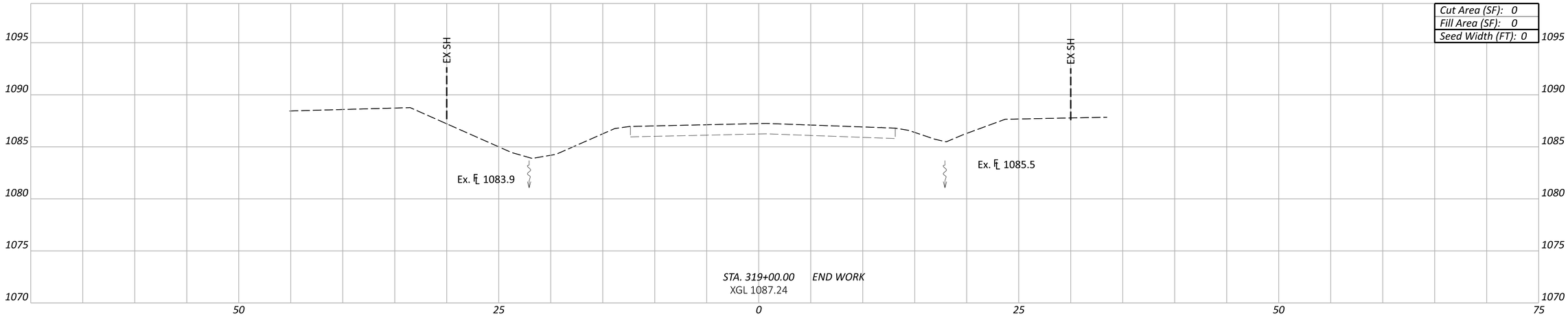
SHEET P.34 TOTAL 64

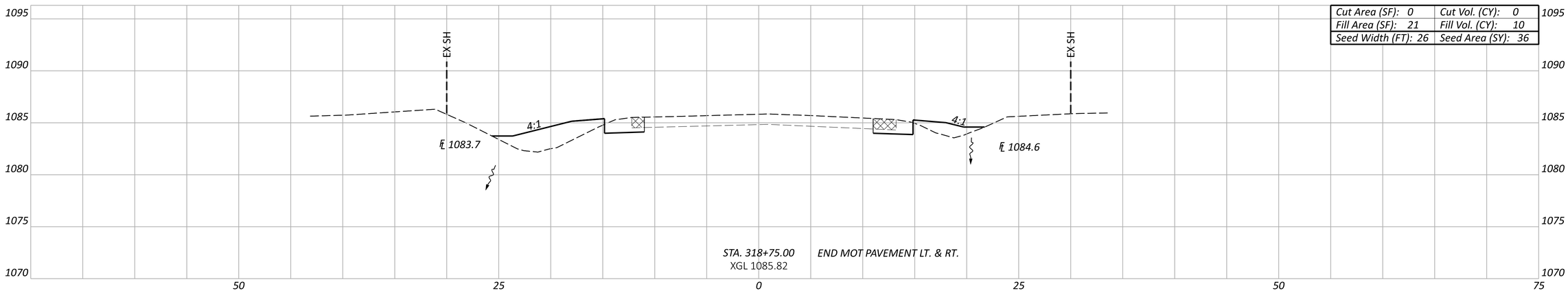
HOL-39-5.87

MODEL: Unnamed Cross Section - 318+25.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:38 PM PLTDRV: OHDOT_PDF_Levels.plt.cfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCtv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

LEGEND

ITEM 202 - PAVEMENT REMOVED





CROSS SECTIONS - S.R. 39
STA. 318+75 TO STA. 319+00

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

Sheet Totals		
Seeding	Cut	Fill
36	0	10

SHEET P.35 TOTAL 64

HOL-39-5.87

MODEL: Unnamed Cross Section-3 - 318+75.00 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:56:39 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Roadway\Sheets\108814_XS000.dgn

SUPERELEVATION TABLE

LEFT SIDE					PROFILE CONTROL		RIGHT SIDE					
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	REMARKS
1073.91		-0.40	-0.033	12	311+00.00	1074.32	12	-0.008	-0.10		1074.22	BEGIN WORK, MATCH EXISTING
1073.21		-0.31	-0.026	12	311+25.00	1073.52	12	-0.010	-0.12		1073.40	
1072.58		-0.23	-0.019	12	311+50.00	1072.81	12	-0.013	-0.16		1072.65	
1072.06		-0.14	-0.012	12	311+75.00	1072.20	12	-0.015	-0.18		1072.02	
1071.62		-0.06	-0.005	12	312+00.00	1071.68	12	-0.018	-0.22		1071.46	
1071.37		0.00	0.000	12	312+17.86	1071.37	12	-0.020	-0.24		1071.13	HALF FLAT
1071.28	298 :1	0.02	0.002	12	312+25.00	1071.26	12	-0.020	-0.24	852 :1	1071.02	
1071.05		0.11	0.009	12	312+50.00	1070.94	12	-0.023	-0.28		1070.66	
1070.93		0.17	0.014	12	312+69.48	1070.76	12	-0.025	-0.30		1070.46	PC
1070.91		0.19	0.016	12	312+75.00	1070.72	12	-0.025	-0.30		1070.42	
1070.87		0.28	0.023	12	313+00.00	1070.59	12	-0.028	-0.34		1070.25	
1070.93		0.36	0.030	12	313+25.00	1070.57	12	-0.030	-0.36		1070.21	FULL SUPER
1071.00		0.36	0.030	12	313+50.00	1070.64	12	-0.030	-0.36		1070.28	
1071.16		0.36	0.030	12	313+75.00	1070.80	12	-0.030	-0.36		1070.44	
1071.17		0.36	0.030	12	313+75.79	1070.81	12	-0.030	-0.36		1070.45	BEGIN APPROACH SLAB
1071.32		0.36	0.030	12	313+90.79	1070.96	12	-0.030	-0.36		1070.60	END APPROACH SLAB
BRIDGE												
1071.42		0.36	0.030	12	314+00.00	1071.06	12	-0.030	-0.36		1070.70	
1071.70		0.36	0.030	12	314+25.00	1071.34	12	-0.030	-0.36		1070.98	
1071.97		0.36	0.030	12	314+50.00	1071.61	12	-0.030	-0.36		1071.25	
1072.00		0.36	0.030	12	314+52.09	1071.64	12	-0.030	-0.36		1071.28	PT
BRIDGE												
1072.03		0.36	0.030	12	314+55.10	1071.67	12	-0.030	-0.36		1071.31	BEGIN APPROACH SLAB
1072.20		0.36	0.030	12	314+70.10	1071.84	12	-0.030	-0.36		1071.48	END APPROACH SLAB
1072.25		0.36	0.030	12	314+75.00	1071.89	12	-0.030	-0.36		1071.53	FULL SUPER
1072.47		0.31	0.026	12	315+00.00	1072.16	12	-0.030	-0.36		1071.80	
1072.72		0.28	0.023	12	315+25.00	1072.44	12	-0.030	-0.36		1072.08	
1072.98		0.23	0.019	12	315+50.00	1072.75	12	-0.030	-0.36		1072.39	
1073.35		0.19	0.016	12	315+75.00	1073.16	12	-0.030	-0.36		1072.80	
1073.82		0.14	0.012	12	316+00.00	1073.68	12	-0.030	-0.36		1073.32	
1074.41		0.11	0.009	12	316+25.00	1074.30	12	-0.030	-0.36		1073.94	
1075.08	589 :1	0.06	0.005	12	316+50.00	1075.02	12	-0.029	-0.35	27083 :1	1074.67	
1075.88		0.02	0.002	12	316+75.00	1075.86	12	-0.029	-0.35		1075.51	
1076.31		0.00	0.000	12	316+87.50	1076.31	12	-0.029	-0.35		1075.96	HALF FLAT
1076.77		-0.02	-0.002	12	317+00.00	1076.79	12	-0.029	-0.35		1076.44	
1077.77		-0.06	-0.005	12	317+25.00	1077.83	12	-0.029	-0.35		1077.48	
1078.87		-0.11	-0.009	12	317+50.00	1078.98	12	-0.029	-0.35		1078.63	
1080.09		-0.14	-0.012	12	317+75.00	1080.23	12	-0.029	-0.35		1079.88	
1081.40		-0.19	-0.016	12	318+00.00	1081.59	12	-0.029	-0.35		1081.24	END WORK, MATCH EXISTING

emax: -0.030 (NDC = -0.080)

SUPERELEVATION TABLE
S.R. 39

DESIGN AGENCY

DESIGNER
MVC

REVIEWER
BSH 10/01/25

PROJECT ID
108814

SHEET P.36 | TOTAL 64

HOL-39-5.87

NOTES

1. FOR ADDITIONAL DETAILS, SEE SCD BP-4.1.
2. FOR DIMENSIONS "L1", "L2", R1, R2, AND "W," SEE DRIVE SUBSUMMARY BELOW.
3. FOR DRIVEWAY QUANTITIES, SEE DRIVEWAY SUBSUMMARY BELOW. (STAGE 3)

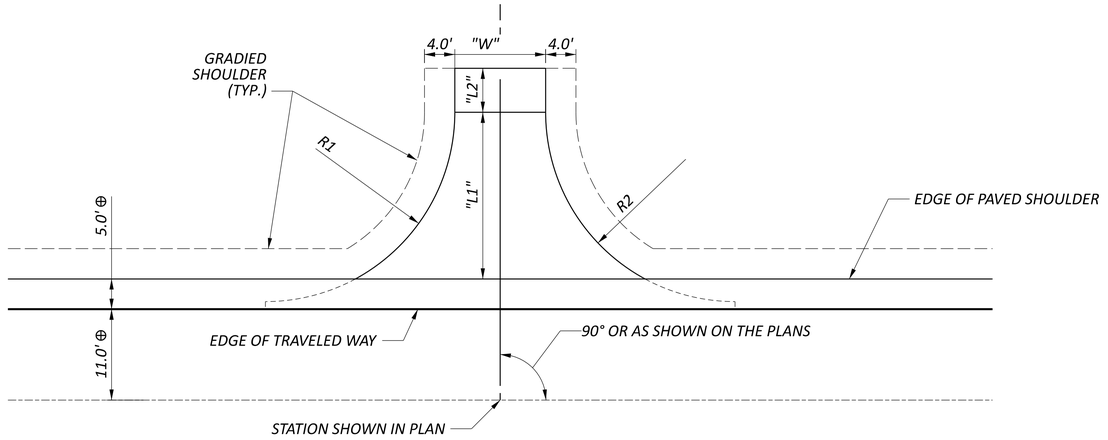
RESIDENTIAL DRIVES

EXISTING ASPHALT APRON

PROPOSED BUILDUP:
ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
ITEM 407 - TACK COAT
ITEM 301 - 3 1/2" ASPHALT CONCRETE BASE, PG64-22, (449)

FIELD DRIVE

PROPOSED BUILDUP:
ITEM 304 - 6" AGGREGATE BASE



RESIDENTIAL AND FIELD DRIVE DIAGRAM

⊕ OR AS SHOWN ON THE PLANS

DRIVE SUB-SUMMARY

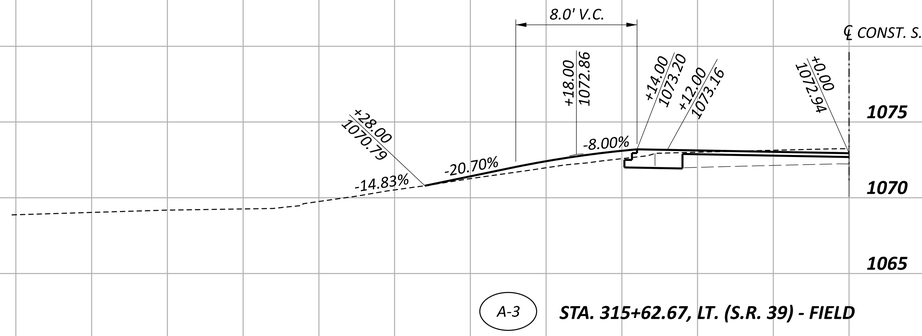
DRIVE PROFILE SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	CADD GENERATED AREA	SEE THIS SHEET					202	THICKNESS (INCHES)	301	THICKNESS (INCHES)	304	407	THICKNESS (INCHES)	441
						APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	R1 (LEFT SIDE RADII OF DRIVE LOOKING FROM CL)	R2 (RIGHT SIDE RADII OF DRIVE LOOKING FROM CL)	PAVEMENT REMOVED		ASPHALT CONCRETE BASE, PG64-22, (449)		AGGREGATE BASE	TACK COAT 0.055 GAL/SY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)
					SQ YD	FT	FT	FT	FT	FT	SQ YD		CU YD		CU YD	GAL		CU YD
P.16	A-1	312+20.31	LT	FIELD	30	14	0	14	15	15				6	5			
P.16	A-2	312+58.52	RT	RES.	49.6	9.43	0	34.4	25	25		3 ½	5			3	1 ¼	2
P.17	A-3	315+62.67	LT	FIELD	30	14	0	14	15	15	36			6	5			
TOTALS CARRIED TO GENERAL SUMMARY											36		5		10	3		2

DRIVE DETAILS AND SUBSUMMARY

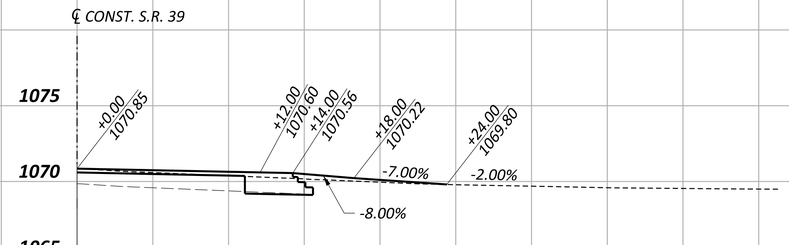
DESIGN AGENCY

DESIGNER MVC
REVIEWER BSH 10/01/25
PROJECT ID 108814
SHEET P.37 TOTAL 64

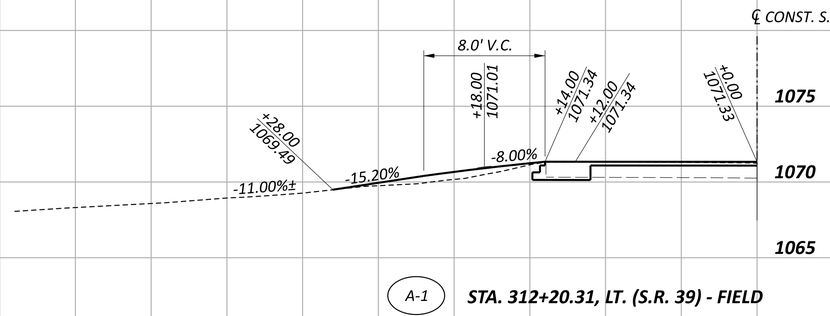
HOL-39-5.87



A-3 **STA. 315+62.67, LT. (S.R. 39) - FIELD**



A-2 **STA. 312+58.52, RT. (S.R. 39) - RES. (SKEWED)**



A-1 **STA. 312+20.31, LT. (S.R. 39) - FIELD**

DRIVE PROFILES

DESIGN AGENCY

DESIGNER MVC

REVIEWER BSH 10/01/25

PROJECT ID 108814

SHEET P.38 TOTAL 64

HOL-39-5.87

TRAFFIC CONTROL SUBSUMMARY

SHEET NO.	REFERENCE NO.	LOCATION	STATION FROM	STATION TO	SIDE	CODE	SIZE (INCHES)	630 GROUND MOUNTED SUPPORT, NO. 2 POST	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN, FLAT SHEET	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		646 EDGE LINE, 6"	646 CENTER LINE
			FROM	TO				FT.	FT.	SQ. FT.	EACH	EACH		MILE	MILE
P.37-P.38	EL-1	S.R. 179	310+25.00	318+75.00	LT									0.16	
P.37-P.38	EL-2	S.R. 179	310+25.00	318+75.00	RT									0.16	
P.37-P.38	CL-1	S.R. 179	311+00.00	318+00.00	CL										0.13
P.37	S-1	S.R. 39	310+50.00		LT	M2-1-21	21 X 15			2.19					
						M1-5-24-3	30 X 24		15.1	5.00	3	1			
						M5-1R-12	21 X 15			2.19					
P.37	S-2	S.R. 179	313+90.00		RT	I-H25b-12	12 X 12	8.8		1.00					
P.37	S-3	S.R. 179	314+55.00		LT	I-H25b-12	12 X 12	8.7		1.00					
TOTALS CARRIED TO GENERAL SUMMARY								**17.5**	**15.1**	**11.38**	**3**	**1**		**0.32**	**0.13**

ITEM 621 - RAISED PAVEMENT MARKERS REMOVED 20 EACH
STA. 311+00 TO 318+00
(700 FT ÷ 40 FT SPACING) + 1 EACH = 20 EACH

ITEM 621 - RPM (2-WAY YELLOW/YELLOW) 17 EACH
STA. 311+00 TO 318+00
((700 FT - 64.31 FT BRIDGE LIMITS) ÷ 40 FT SPACING) + 1 EACH = 17 EACH

TRAFFIC CONTROL ESTIMATED QUANTITIES

DESIGN AGENCY

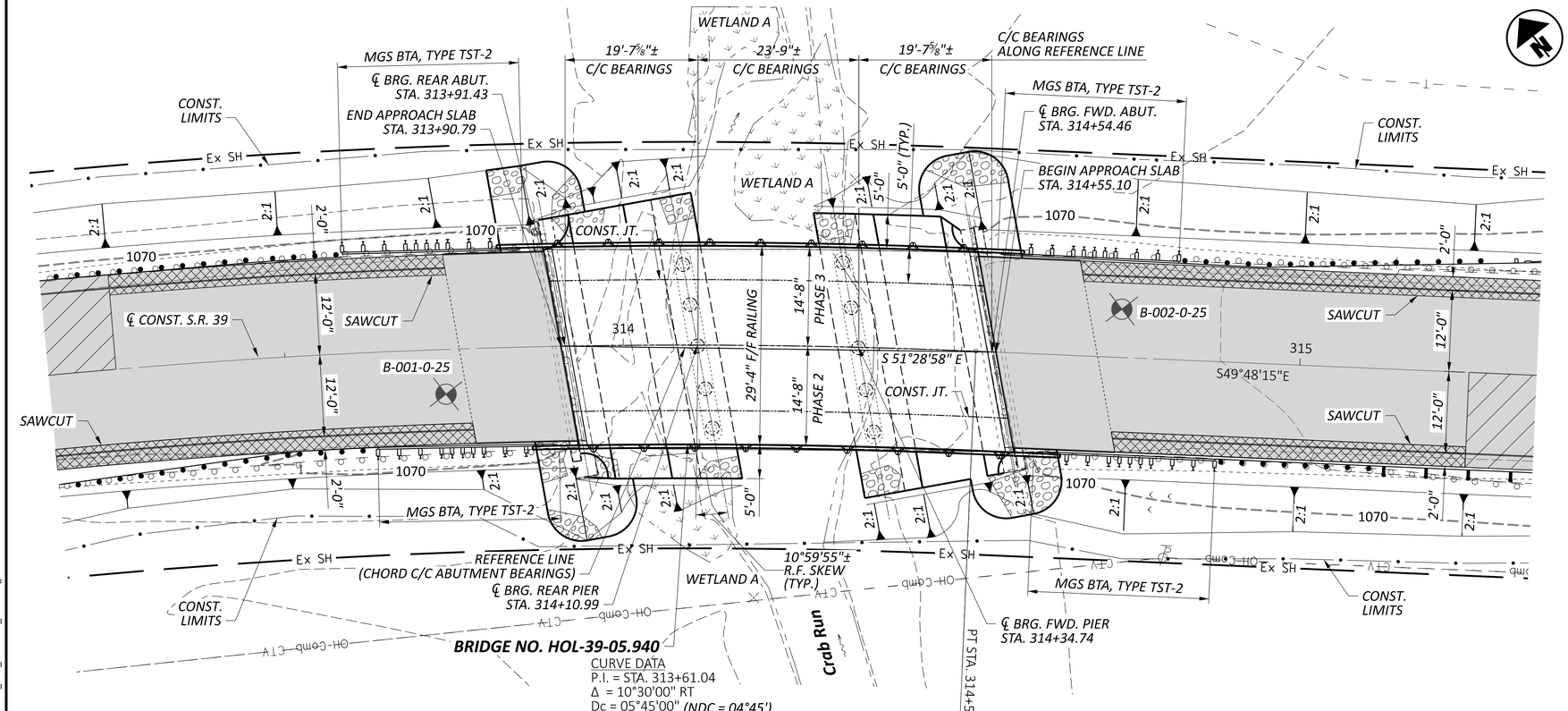
DESIGNER MVC

REVIEWER XXX MM-DD-YY

PROJECT ID 108814

SHEET P.39 TOTAL 64

HOL-39-5.87



PROFILE ALONG ℄ CONSTRUCTION S.R. 39

BENCHMARK DATA

BM #1 STA.	313+87.41,	ELEV.	1071.37,	OFFSET	16.95' LT.
CP01 STA.	312+06.43,	ELEV.	1070.59,	OFFSET	25.80' LT.
CP02 STA.	316+62.44,	ELEV.	1073.67,	OFFSET	19.02' LT.

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET P.04.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2028 ADT =	2,600	2028 ADTT =	592
2040 ADT =	3,000	2040 ADTT =	656

DIRECTIONAL DISTRIBUTION = 59.1%

LEGEND

- BORING LOCATION
- FULL DEPTH PAVEMENT REPLACEMENT
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
- ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER (2'-6" THICK MIN.)
- PLANING & RESURFACING

HYDRAULIC DATA

DRAINAGE AREA = 3.52 SQ. MILES

Q (4%) = 1140 CFS	V (4%) = 4.95 FT/S
Q (1%) = 1710 CFS	V (1%) = 6.41 FT/S

STRUCTURE CLEARS THE 25 YEAR DESIGN HW BY 0.8 FEET.

FIRST POST ON BRIDGE

LT. REAR: STA. 313+90.57
RT. REAR: STA. 313+95.40
LT. FWD.: STA. 314+49.70
RT. FWD.: STA. 314+56.23

BTA-TST-2 POST #10

LT. REAR: STA. 313+80.78
RT. REAR: STA. 313+85.31
LT. FWD.: STA. 314+59.61
RT. FWD.: STA. 314+66.17

EXISTING STRUCTURE

TYPE: THREE SPAN CONTINUOUS CONCRETE SLAB WITH CAPPED PILE SUBSTRUCTURE

SPANS: 19'-7⅝"± - 23'-9"± - 19'-7⅝"± C/C BEARINGS (ALONG REF. LINE)
ROADWAY: 29'-4"± F/F RAILING
LOADING: HS20-44
SKEW: 10°59'55"± R.F.
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-72 (15'± LONG)
ALIGNMENT: 5°00'00"± CURVE RIGHT
SUPERELEVATION: 0.030± MAX.
STRUCTURE FILE NUMBER: 3800229
DATE BUILT: 1981
DISPOSITION: TO BE REHABILITATED
DECK AREA: 1,886± SF

COORDINATES: LATITUDE 40°36'03.09" N
LONGITUDE 82°07'19.62" W

PROPOSED WORK

1. PATCH ABUTMENTS AND EXTEND RIGHT REAR WINGWALL.
2. REMOVE AND REPLACE DECK EDGE BEAMS AND REPLACE EXISTING RAIL WITH NEW TST-2-21 RAILING.
3. PERFORM HYDRODEMOLITION ACROSS DECK.
4. PATCH DECK AND PLACE MICRO-SILICA OVERLAY.
5. PLANE AND PAVE OVER APPROACH SLABS.
6. ENCASE PIERS WITH CONCRETE FILLED POLYETHYLENE OR PVC PIPE.
7. REGRADE SLOPING AROUND BRIDGE AND PLACE NEW RCP.
8. SEAL CONCRETE SURFACES WITH EPOXY-URETHANE.

SITE PLAN
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 1 | TOTAL 24
SHEET P.40 | TOTAL 64

HOL-39-5.87

CURVE DATA
P.I. = STA. 313+61.04
Δ = 10°30'00" RT
Dc = 05°45'00" *(NDC = 04°45')*
R = 996.45'
T = 91.56'
L = 182.61'
E = 4.2'
emax = 0.030 (0.080 NDC)

LEGEND

- PLANING AND RESURFACING
- FULL DEPTH PAVEMENT REPLACEMENT
- ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
- ROCK CHANNEL PROTECTION

GENERAL PLAN
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

HOL-39-5.87

MODEL: Unnamed Plan - Plan 1 [Sheet] PAPERSIZE: 34x22 (in.) DATE: 5/20/2026 TIME: 2:57:49 PM PLTDRV: OHDOT_PDF_Levels.pltcfg PENTBL: OHDOT_Pen.tbl USER: Michael.Clark@dot.ohio.gov WORKSPACE: OHDOTCEv02 WORKSET: 108814 PRODUCT: OpenRoadsDesigner 24.00.00.205
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 11\Holmes\108814\400-Engineering\Structures\SFN_3800229\Sheets\108814_SFN_3800229_SG002.dgn

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	XXX
REVIEWER	XXX MM-DD-YY
PROJECT ID	108814
SUBSET	2
TOTAL	24
SHEET	P.41
TOTAL	64

DESIGN REFERENCES

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

CPA-1-08	REVISED	01-19-24
CPP-1-08	REVISED	07-21-17
CS-1-24	DATED	01-16-26
TST-2-21	REVISED	01-17-25

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

800	DATED	01-16-26
843	DATED	01-19-24
844	DATED	01-17-25
848	DATED	07-19-24

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2024 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN DATA

DESIGN LOADING:

HL-93 (PROPOSED SLAB EDGE AND TST-2-21 RAILING)
HS20-44 & ALTERNATE MILITARY (EXISTING BRIDGE ELEMENTS)

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS PER SQ. FT.

DESIGN STRESSES:

CONCRETE CLASS S: (EXISTING)
COMPRESSIVE STRENGTH 1.8 KSI (SUPERSTRUCTURE)

CONCRETE CLASS C: (EXISTING)
COMPRESSIVE STRENGTH 1.6 KSI (SUBSTRUCTURE)

CONCRETE CLASS QC2: (PROPOSED)
COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

REINFORCING STEEL:
MINIMUM YIELD STRENGTH 60 KSI (PROPOSED)

PRESSED STAINLESS STEEL BANDS:
ASTM A1008 YIELD STRENGTH 31 KSI

DECK PROTECTION METHOD:

EPOXY COATED STEEL REINFORCEMENT
MICRO-SILICA MODIFIED CONCRETE OVERLAY

EXISTING STRUCTURE PLANS

THE FOLLOWING PREVIOUS PLAN OF THE EXISTING BRIDGE IS AVAILABLE FOR REFERENCE AT THE ODOT DISTRICT 11 OFFICE IN NEW PHILADELPHIA:

ORIGINAL STRUCTURE CONSTRUCTION:
HOL-39-5.94 (1981)

IN ADDITION, THE PREVIOUS PLAN CAN BE FOUND ON ODOT'S WEBSITE AT THE FOLLOWING ADDRESS:

http://www.dot.state.oh.us/Divisions/ContractAdmin/Contracts/Pages/designfiles.aspx

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

DESCRIPTION:
THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLAN AND GENERAL NOTES THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

DECK EDGE REHABILITATION: IF THE CONTRACTOR'S MEANS AND METHODS REQUIRE DRILLING HOLES THROUGH THE BRIDGE DECK, ALL HOLES SHALL BE DRILLED FROM THE BOTTOM OF THE DECK UPWARD. DRILLING HOLES FROM THE TOP OF THE DECK IS NOT PERMITTED. FALSEWORK INTENDED TO FORM THE NEW DECK EDGE MAY BE USED AS A WORK PLATFORM TO AIDE IN THE DECK EDGE REMOVAL. IF FORMS BECOME DAMAGED DURING CONCRETE REMOVAL, THE DAMAGED PORTIONS SHALL BE REPAIRED OR REPLACED PRIOR TO POURING THE CONCRETE. PRIOR TO PLACING CONCRETE, THOROUGHLY CLEAN ALL SURFACES OF THE FORMS THAT CONTACT THE BOTTOM OF THE EXISTING BRIDGE DECK TO ENSURE A SNUG FIT BETWEEN THE FORMS AND EXISTING BRIDGE DECK. THE PORTION OF THE FORM TO BE IN CONTACT WITH THE FRESH CONCRETE SHALL BE FREE OF LAITANCE, SILT, DIRT, SHAVINGS, SAWDUST, LOOSE AND BUILT-UP RUST, AND OTHER DEBRIS. ALL HOLES DRILLED THOUGH THE BRIDGE DECK SHALL BE REPAIRED WITH TROWELABLE MORTAR IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 843.

IF A SPLITTER IS USED TO DEMOLISH THE DECK EDGE, HOLES SHALL BE SPACED NO FURTHER THAN 12-IN APART, MEASURED LONGITUDINALLY ALONG THE BRIDGE DECK. EACH HOLE SHALL BE USED TO SPLIT THE CONCRETE; SKIPPING HOLES WILL NOT BE PERMITTED. ANY DAMAGE TO THE EXISTING STRUCTURE THAT IS TO REMAIN WILL BE REPAIRED AT NO ADDITIONAL COST TO THE DEPARTMENT. IF THE DAMAGE TO THE REMAINING STRUCTURE IS SIGNIFICANT, AT THE DIRECTION OF THE ENGINEER, PROVIDE A REPAIR PLAN IN ACCORDANCE WITH C&MS 501.05.C.

CUT LINE CONSTRUCTION JOINT PREPARATION:
PRIOR TO REMOVING THE DECK EDGE, PLACE A 1-IN (+0-IN,-1/4-IN) DEEP SAW CUT AT THE BOUNDARIES OF PROPOSED CONCRETE REMOVALS. IF THERE ARE INTEGRAL CONCRETE PIER CAPS WITHIN THE PROPOSED REMOVAL LIMITS, ALSO SAWCUT THE DECK CONCRETE ALONG THE INTERFACE OF THE DECK AND PIER CAP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING CONCRETE REINFORCEMENT, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING STEEL REINFORCEMENT DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

SUBSTRUCTURE CONCRETE REMOVAL:
REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT AND PAYMENT:
THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM SPECIAL, PILE ENCASEMENT

THIS ITEM SHALL INCLUDE THE FOLLOWING: EXCAVATION, REPLACEMENT OF THE EMBANKMENT TO ITS NATURAL STATE AT THE EXISTING PILES, PILE CLEANING TO REMOVE DEBRIS, POLYETHYLENE OR PVC PIPE, STAINLESS STEEL BANDS, NUTS AND BOLTS, AND CLASS QC1 CONCRETE.

ENCASE ALL EXISTING STEEL H-PILES FOR THE CAPPED PILE PIERS IN CONCRETE CONFORMING TO CMS 511 (F'C = 4.0 KSI). PROVIDE A CONCRETE SLUMP BETWEEN 6 AND 8 INCHES WITH THE USE OF A SUPERPLASTICIZER. PLACE THE CONCRETE WITHIN A FORM THAT CONSISTS OF POLYETHYLENE (C&MS 707.33) OR PVC PIPE (C&MS 707.42). THE POLYETHYLENE (C&MS 707.33) OR PVC (C&MS 707.42) PIPE SHALL BE CUT LENGTHWISE ON ONE SIDE OR IN TWO (2) SECTIONS AS NEEDED TO ENCOMPASS THE EXISTING H-PILES AND ENCASEMENT AND HELD TOGETHER WITH STAINLESS STEEL BANDS AS SHOWN IN THE PLANS. THE ENCASEMENT SHALL EXTEND FROM 3 FEET BELOW THE FINISHED GROUND SURFACE UP TO THE CONCRETE PIER CAP. POSITION PIPE SO THAT AT LEAST THREE (3) INCHES OF CONCRETE COVER IS PROVIDED AROUND THE EXTERIOR OF THE PILE.

THE BANDS SHALL BE STAINLESS STEEL AND MEET ASTM-A1008 WITH A MINIMUM TENSILE STRENGTH OF 31 KSI. THE BANDS SHALL BE 1" WIDE AND THICKNESS SHALL NOT BE LESS THAN 11 GAUGE (0.1196"). THE STAINLESS STEEL BANDS SHALL BE TIGHTENED SO AS NOT TO ELONGATE WHEN CONCRETE IS PLACED WITHIN THE PIPE. MAXIMUM SPACING OF THE BANDS SHALL BE 1'-0". ALTERNATE METHODS MAY BE USED TO CLAMP THE SECTIONS TOGETHER AS APPROVED BY THE ENGINEER.

THE DEPARTMENT WILL MEASURE PILE ENCASEMENT BY THE NUMBER OF FEET. THE DEPARTMENT WILL DETERMINE THE SUM AS THE LENGTH MEASURED ALONG THE AXIS OF EACH PILE FROM THE BOTTOM OF THE ENCASEMENT TO THE BOTTOM OF THE PIER CAP. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM - SPECIAL, PILE ENCASEMENT.

MAINTENANCE OF TRAFFIC

FOR MAINTENANCE OF TRAFFIC NOTES, PLANS, AND ESTIMATED QUANTITIES, SEE SHEETS P.05-P.10. IN ADDITION, SEE SHEET 6 | 24 FOR PHASE CONSTRUCTION DETAILS.

ITEM 509, REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT CONCRETE REINFORCEMENT BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING STEEL REINFORCEMENT BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW REINFORCING STEEL OF THE SAME SIZE AND COATING AT NO COST TO THE DEPARTMENT. THIS WORK SHALL INCLUDE THE INSTALLATION OF ANY DOWEL HOLES USING NONSHRINK, NONMETALLIC GROUT PER CMS 510 AND MECHANICAL CONNECTORS REQUIRED TO COMPLETE THIS WORK.

FORE ESTIMATING PURPOSES, THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN - **100 LBS**

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

A QUANTITY OF **10 SQ. FT.** HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24 TO REPAIR A SPALL ON THE BOTTOM OF DECK ON THE CENTERLINE NEAR THE REAR ABUTMENT FOR USE AS DIRECTED BY THE ENGINEER.

SCOUR ELEVATIONS

THE DESIGN FLOOD AND CHECK FLOOD SCOUR ELEVATIONS ARE PROVIDED BELOW:

	REAR ABUTMENT	REAR PIER	FORWARD PIER	FORWARD ABUTMENT
2% AEP DESIGN FLOOD	1064.37	1056.97	1056.73	1067.28
1% AEP CHECK FLOOD	1063.47	1056.15	1056.15	1066.47

STRUCTURE NOTES
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 3 | TOTAL 24
SHEET P.42 | TOTAL 64

HOL-39-5.87

STRUCTURE IDENTIFICATION SIGNS

A STRUCTURE IDENTIFICATION SIGN (I-H25b) SHALL BE PLACED AT EACH APPROACH TO THE STRUCTURE, ON THE RT. SHOULDER, FACING TRAFFIC. THESE SIGNS ARE MAINTENANCE MARKERS, AND SHALL UTILIZE SCD TC-52.20 SIGN BLANK DETAIL, SQ-1-3 FOR MOUNTING HOLE LOCATIONS. ADDITIONALLY, THE SIGNS SHALL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

MOUNT SIGNS ON NEW NO. 2 POSTS AND INSTALL PER SCD TC-41.20. AND TEM 206-18. FOR QUANTITIES, SEE ESTIMATED QUANTITIES SHEET P.17.

HOL
39
0594
3800229

I-H25b (12" x 12")

ITEM 202 - REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION

AN ASBESTOS SURVEY FOR BRIDGE NO. HOL-39-05.940 (SFN: 3800229) SCHEDULED FOR REHABILITATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST . A COPY OF THE ASBESTOS INSPECTION REPORT FOR THE STRUCTURE IS INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS INSPECTION REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS ABOVE REGULATORY LIMITS.

DISPOSE ASBESTOS CONTAINING MATERIALS IN A LANDFILL LICENSED BY THE OHIO DEPARTMENT OF HEALTH AND PERMITTED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY - DIVISION OF AIR POLLUTION CONTROL TO ACCEPT ASBESTOS CONTAINING MATERIAL. THE REMOVAL AND DISPOSAL OF ALL ASBESTOS CONTAINING MATERIAL MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE (OAC) REGULATIONS AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) STANDARD FOR ASBESTOS.

ELECTRONIC SUBMISSION:

SUBMIT A COMPLETED ELECTRONIC NOTIFICATION OF DEMOLITION AND RENOVATION FORM (NDRF), APPLICABLE FEES, AND THE ASBESTOS INSPECTION REPORT TO THE OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT USING THE OEPA EBUSINESS CENTER. SUBMIT ONE ELECTRONIC PDF COPY AND ONE HARD COPY OF THE NDRF TO THE ENGINEER. THE ENGINEER WILL PROVIDE ONE COPY TO THE DISTRICT ENVIRONMENTAL STAFF.

HARD COPY SUBMISSION:

THE CONTRACTOR MAY SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS INSPECTION REPORT. FOLLOW THE MAILING INSTRUCTIONS ON THE NDRF. CHECK WITH LOCAL HEALTH DEPARTMENT TO DETERMINE IF THEY REQUIRE A HARD COPY SUBMITTAL.

SUBMIT THE COMPLETED NDRF TO OEPA AT LEAST 10 DAYS PRIOR TO DEMOLITION ACTIVITY, RENOVATION ACTIVITY, OR BOTH. RETAIN TWO HARD COPIES OF THE NDRF AND SUBMIT ONE COPY TO THE ENGINEER AND EMAIL ONE COPY TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR AT: THOMAS.STRATTON@DOT.OHIO.GOV.

BASIS OF PAYMENT

SUBMIT ALL DOCUMENTATION RELATED TO THE SURVEY, ABATEMENT, TRANSPORT, AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS TO THE ENGINEER WITHIN TWO WEEKS OF COMPLETION. THE ENGINEER WILL PROVIDE A COPY OF THE DOCUMENTATION TO THE DISTRICT ENVIRONMENTAL STAFF.

PAYMENT FOR THIS WORK SHALL BE MADE AT THE BID PRICE OF LUMP SUM.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE: ITEM 202 - REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION.

ABBREVIATIONS

THE FOLLOWING STANDARD ABBREVIATIONS ARE USED THROUGHOUT THE STRUCTURE PLAN SHEETS:

A.A. - ANCHOR ASSEMBLY
ABUT. - ABUTMENT
AEP - ANNUAL EXCEEDANCE PROBABILITY
BRG. - BEARING
BTA - BRIDGE TERMINAL ASSEMBLY
c/c - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE
C.J. - CONSTRUCTION JOINT
CL. OR CLR. - CLEARANCE
C.M.P. - CORRUGATED METAL PIPE
CONST. - CONSTRUCTION
CP - COMPLETE JOINT PENETRATION GROOVE WELD
Ø - DIAMETER
DND - DO NOT DISTURB
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
EQ. - EQUAL
EX. - EXISTING
EXP. - EXPANSION
F.A. - FORWARD ABUTMENT
F.F. - FAR FACE
f/f - FACE TO FACE
F.P. - FORWARD PIER
FTG. - FOOTING
FWD. - FORWARD
FWS - FUTURE WEARING SURFACE
GA - GALVANIC ANODE
HMWM - HIGH MOLECULAR WEIGHT METHACRYLATE
JT. - JOINT
MGS - MIDWEST GUARDRAIL SYSTEM
NDC - NORMAL DESIGN CRITERIA
N.F. - NEAR FACE
NO. - NUMBER
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE
O.C.J. - OPTIONAL CONSTRUCTION JOINT
O.D. - OUTSIDE DIAMETER
OHWM - ORDINARY HIGH WATER MARK
o/o - OUT TO OUT
P.C.J. - PHASE CONSTRUCTION JOINT
P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE
P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
PR. - PROPOSED
P.V.C. - POLYVINYL CHLORIDE
R - RADIUS
R.A. - REAR ABUTMENT
REF. - REFERENCE
R.P. - REAR PIER
SPA. - SPACE(D) OR SPACING
STA. - STATION
STD. DWG. OR SCD - STANDARD CONSTRUCTION DRAWING
T.O.S. - TOP OF SLOPE
TYP. - TYPICAL

THE SYMBOLS BELOW DESIGNATE THE NAMES AND LOCATIONS OF THE SECTION DETAILS THROUGHOUT THE STRUCTURE PLANS. THE TOP LETTER DESIGNATES THE SECTION NAME. THE BOTTOM NUMBER(S) SHOW WHICH STRUCTURE SHEET NUMBER IS BEING CROSS REFERENCED.

B
14|24

X
X|X
SECTION

STRUCTURE NOTES
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 4 | TOTAL 24
SHEET P.43 | TOTAL 64

HOL-39-5.87

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ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - TOP MAT)

FOLLOW SUPPLEMENTAL SPECIFICATION 844 AND BDM 405.4.

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON-CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 30 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 263 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING ESTIMATED QUANTITY COVERS BOTH EDGE BEAMS AND HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24 .

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - TOP MAT) ---------- ***66 EACH***

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (OVER PIERS)

FOLLOW SUPPLEMENTAL SPECIFICATION 844 AND BDM 405.4.

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON-CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 30 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 525 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING ESTIMATED QUANTITY COVERS BOTH EDGE BEAMS AND HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24 .

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (OVER PIERS)
4 EACH PER PIER
USE: 8 EACH

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - BOTTOM MAT)

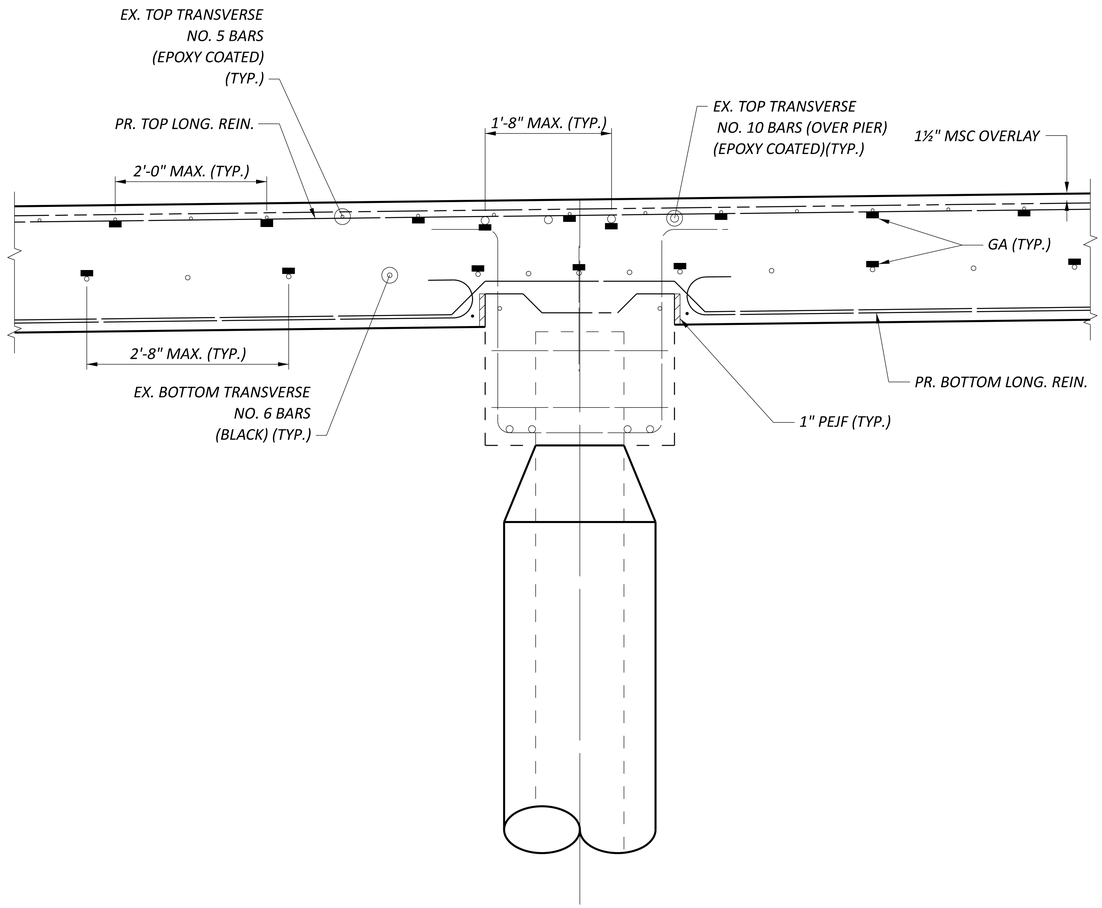
FOLLOW SUPPLEMENTAL SPECIFICATION 844 AND BDM 405.4.

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON-CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 30 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 210 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING ESTIMATED QUANTITY COVERS BOTH EDGE BEAMS AND HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24 .

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - BOTTOM MAT) ---------- ***52 EACH***



ANODE PLACEMENT DETAIL

STRUCTURE NOTES
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	4
TOTAL	24
SHEET	P.44
TOTAL	64

HOL-39-5.87

ESTIMATED QUANTITIES - HOL-39-05.940 (SFN: 3800229)

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SHEET NO.
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	P.42
202	98000	LS	LS	REMOVAL MISC.: OEPA NOTIFICATION OF DEMOLITION				LS	P.42
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING				LS	
503	21100	4	CY	UNCLASSIFIED EXCAVATION	4				
SPECIAL	50771200	127	FT	PILE ENCASEMENT		127			P.42
509	10000	12493	LB	EPOXY COATED STEEL REINFORCEMENT	47		12446		
509	20001	100	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN				100	P.42
510	10000	12	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	12				
511	32210	36	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			36		
511	44110	1	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING	1				
512	10100	176	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	26	48	102		
512	33000	3	SY	TYPE 2 WATERPROOFING	3				
516	13600	20	SF	1" PREFORMED EXPANSION JOINT FILLER	6	14			
517	70100	152	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			152		
519	11100	3	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	3				
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1	
844	20001	6	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (ABUTMENTS)	6				P.52-P.53
844	20001	6	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (OVER PIERS)		6			P.44
844	20001	66	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - TOP MAT)			66		P.44
844	20001	52	EACH	GALVANIC ANODE PROTECTION, AS PER PLAN, (EDGE BEAM - BOTTOM MAT)			52		P.44
848	10000	210	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION			210		
848	20000	138	SY	SURFACE PREPARATION USING HYDRODEMOLITION			138		
848	30000	4	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			4		
848	50000	6	SY	HAND CHIPPING			6		
848	50100	LS	LS	TEST SLAB			LS		
848	50200	9	CY	FULL-DEPTH REPAIR			9		

TOTALS CARRIED TO GENERAL SUMMARY

STRUCTURE ESTIMATED QUANTITIES
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	XXX

REVIEWER: XXX

PROJECT ID: 108814

SUBSET	TOTAL
5	24

SHEET	TOTAL
P.45	64

HOL-39-5.87

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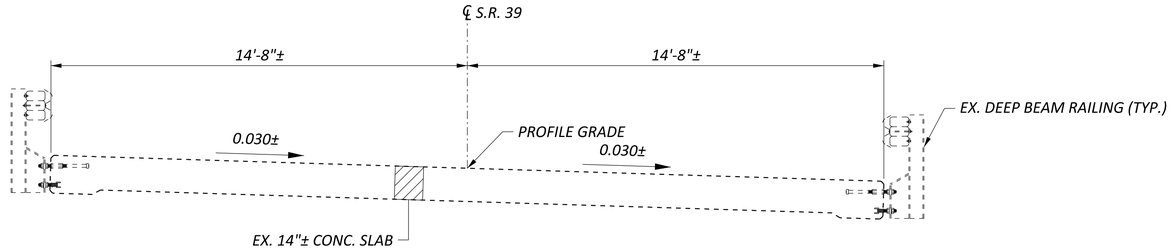
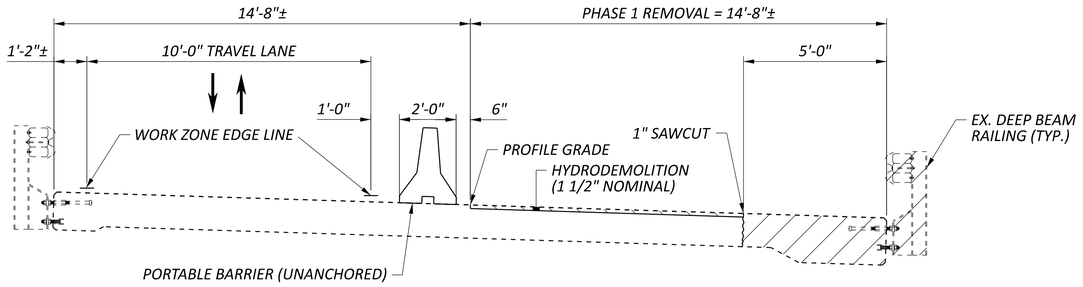
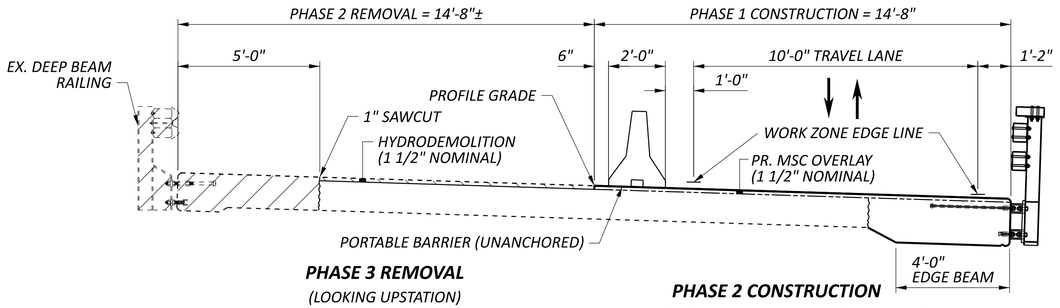


EXISTING TRANSVERSE SECTION



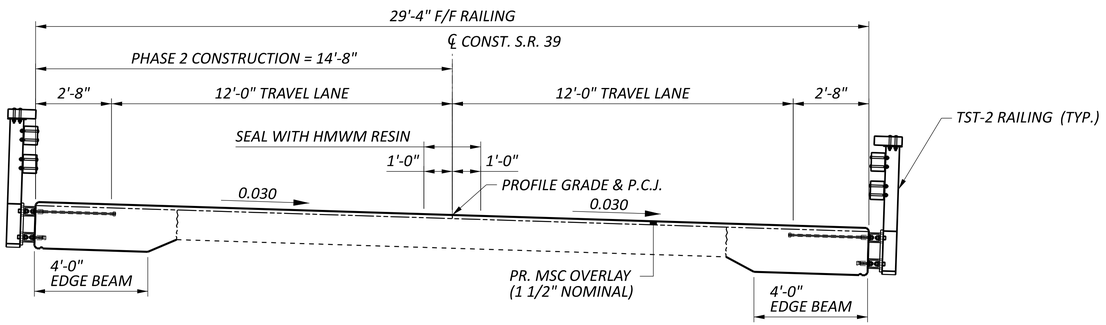
PHASE 2 MAINTENANCE OF TRAFFIC
(LOOKING UPSTATION)

PHASE 2 REMOVAL
(LOOKING UPSTATION)



PHASE 3 REMOVAL
(LOOKING UPSTATION)

PHASE 2 CONSTRUCTION
PHASE 3 MAINTENANCE OF TRAFFIC
(LOOKING UPSTATION)



PROPOSED TRANSVERSE SECTION

PHASE 2

1. *INSTALL AND MAINTAIN CONSTRUCTION SIGNS AND SIGNALS AS SHOWN ON SHEETS P.07-P.08 AND AS PER SCD MT-96.11.*
2. *ERECT PORTABLE BARRIER (UNANCHORED) ON THE LEFT PORTION OF THE EXISTING STRUCTURE AS SHOWN AND AS PER SCD PCB-91 AND RM-4.2. REMOVE CONFLICTING PAVEMENT MARKINGS, AND INSTALL WORK ZONE PAVEMENT MARKINGS AS SHOWN ON SHEETS P.07-P.08. PROVIDE ALL MAINTENANCE OF TRAFFIC DEVICES.*
3. *USE SIGNALS TO MAINTAIN ALTERNATING ONE-WAY TRAFFIC ON THE LEFT PORTION OF S.R. 39 AS PER THE DETAILS SHOWN ON SHEETS P.07-P.08.*
4. *ON THE RIGHT SIDE, REMOVE EX. RAILING AND 5' OF DECK EDGE (INCLUDING ALL LONGITUDINAL BARS AND STIRRUPS) WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN. PRESERVE TRANSVERSE BARS PROTRUDING FROM CONSTRUCTION JOINT. PERFORM 1 1/2" HYDRODEMOLITION.*
5. *ON THE RIGHT SIDE, CONSTRUCT NEW SLAB EDGE BEAM, PERFORM PARTIAL AND FULL DEPTH REPAIRS ON DECK AND APPROACH SLABS, PLACE PROPOSED MICRO-SILICA OVERLAY ON DECK AND APPROACH SLABS, AND INSTALL NEW TST-2 RAILING.*

PHASE 3

6. *ERECT PORTABLE BARRIER (UNANCHORED) ON THE NEWLY CONSTRUCTED RIGHT PORTION OF THE DECK AS SHOWN AND AS PER SCD PCB-91 AND RM-4.2. REMOVE CONFLICTING PAVEMENT MARKINGS, AND INSTALL WORK ZONE PAVEMENT MARKINGS AS SHOWN ON SHEETS P.09-P.10. PROVIDE ALL MAINTENANCE OF TRAFFIC DEVICES.*
7. *USE SIGNALS TO MAINTAIN ALTERNATING ONE-WAY TRAFFIC ON THE RIGHT PORTION OF S.R. 39 AS PER THE DETAILS SHOWN ON SHEETS P.09-P.10.*
8. *ON THE LEFT SIDE, REMOVE EX. RAILING AND 5' OF DECK EDGE (INCLUDING ALL LONGITUDINAL BARS AND STIRRUPS) WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN. PRESERVE TRANSVERSE BARS PROTRUDING FROM CONSTRUCTION JOINT. PERFORM 1 1/2" HYDRODEMOLITION.*
9. *ON THE LEFT SIDE, CONSTRUCT NEW SLAB EDGE BEAM, PERFORM PARTIAL AND FULL DEPTH REPAIRS ON DECK AND APPROACH SLABS, PLACE PROPOSED MICRO-SILICA OVERLAY ON DECK AND APPROACH SLABS, AND INSTALL NEW TST-2 RAILING.*

PROPOSED TRANSVERSE SECTION

10. *IN ONE CONTINUOUS OPERATION, UTILIZING FLAGGERS, REMOVE THE PORTABLE BARRIER, AND REMOVE TRAFFIC SIGNALS AND CONFLICTING PAVEMENT MARKINGS.*
11. *SAW CUT GROOVES INTO THE SLAB SURFACE AND SEAL THE CONSTRUCTION JOINTS WITH HMWM RESIN AS SHOWN UTILIZING FLAGGERS AS PER SCD MT-97.10.*
12. *OPEN THE ROAD TO TWO-LANE, TWO-WAY TRAFFIC TRAFFIC IN EACH DIRECTION.*

REMAINING WORK

THE ABUTMENT REPAIR AND SEALING PORTION OF THE PROPOSED WORK CAN BE ACCOMPLISHED AT ANY TIME AT THE DISCRETION OF THE ENGINEER. IF THE CONTRACTOR CHOOSES TO PERFORM THE SUB-STRUCTURE WORK BEFORE OR AFTER THE SIGNALIZED ONE-LANE, TWO-WAY TRAFFIC PATTERN IS OPERATIONAL, FLAGGERS MUST BE USED FOR THE OCCASIONAL MOVEMENT OF EQUIPMENT AND MATERIALS IN AND OUT OF THE WORK ZONE THAT ARE NECESSARY TO COMPLETE THIS WORK.

PORTABLE BARRIER NOTES:

1. *PORTABLE CONCRETE BARRIER ANCHOR ANALYSIS HAS DETERMINED THAT ANCHORING IS NOT REQUIRED.*
2. *THE LANE WIDTHS AND DECK WIDTH SHOWN IN THE TYPICAL SECTIONS ON THIS SHEET AND MAINTENANCE OF TRAFFIC SHEETS P.07-P.10 ADHERE WITH THE ANCHORING REQUIREMENTS FOR BOTH PCB-91 AND RM-4.2, PER BRIDGE DESIGN MANUAL (BDM) SECTION 309.4.3.6.*
3. *FOR THIS PROJECT, THE CONTRACTOR ALSO HAS THE ADDITIONAL OPTION TO USE EASI-SET WORLDWIDE TEMPORARY BARRIER.*

LEGEND

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION

PHASE CONSTRUCTION DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	RPT

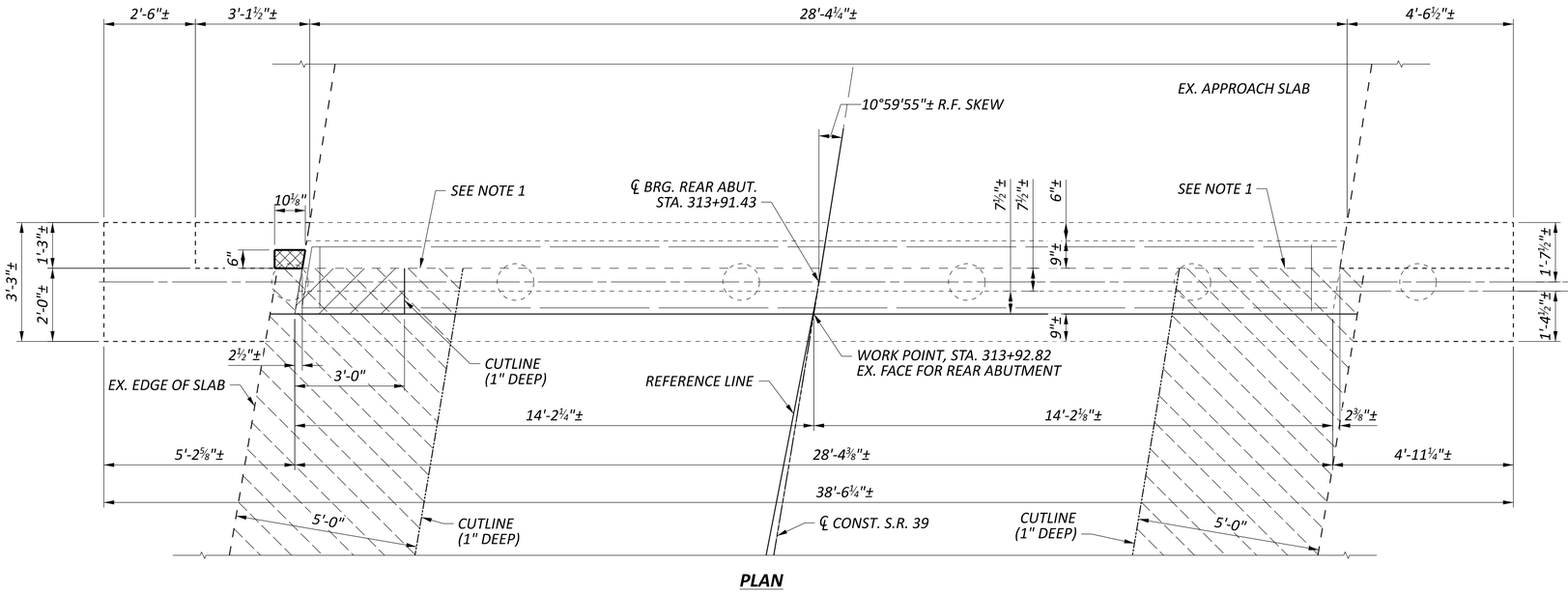
REVIEWER: JAC 07/27/23

PROJECT ID: 108814

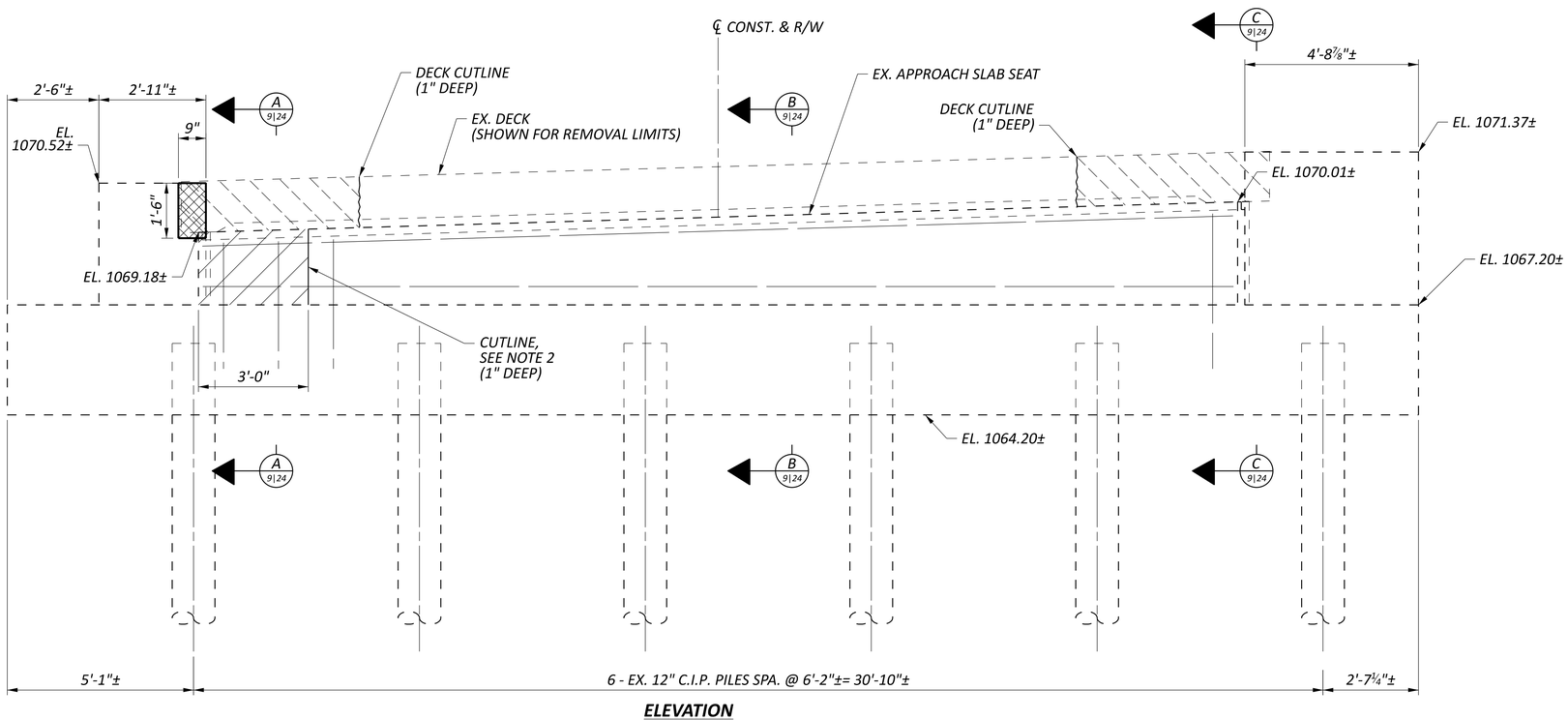
SUBSET	TOTAL
6	24

SHEET	TOTAL
P.46	64

HOL-39-5.87



PLAN



ELEVATION

NOTES:

1. *CAREFULLY REMOVE PORTIONS OF DECK AGAINST ABUTMENT WINGWALL AND EX. BRIDGE SLAB SEAT WITHOUT CAUSING DAMAGE TO EXISTING STRUCTURE. DAMAGE INCURRED BY INAPPROPRIATE REMOVAL METHODS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.*

2. *REMOVE PORTIONS OF CONCRETE BREASTWALL TO BE FLUSH WITH THE WINGWALL AND TOP OF FOOTING TO THE LIMITS SHOWN IN SECTION A ON SHEET 9 | 24 . THE EXISTING CONCRETE REINFORCEMENT SHALL REMAIN UNLESS OTHERWISE DETERMINED BY THE ENGINEER, THEN THE DAMAGED COMPONENTS SHALL BE REMOVED AND REPLACED PER ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN.*

3. *FOR DECK REMOVAL DETAILS SEE SHEET 18 | 24*

PATCHING CALCULATIONS
TOP RIGHT WINGWALL: (10 1/8" + 9")/2 X 6" = 0.4 SQ FT
FACE RIGHT WINGWALL: 1'-6" X 9" = 1.1 SQ FT
(TOTALS CARRIED TO OFFICE CALCS)

LEGEND

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (DECK)

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

REAR ABUTMENT REMOVAL DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	RPT

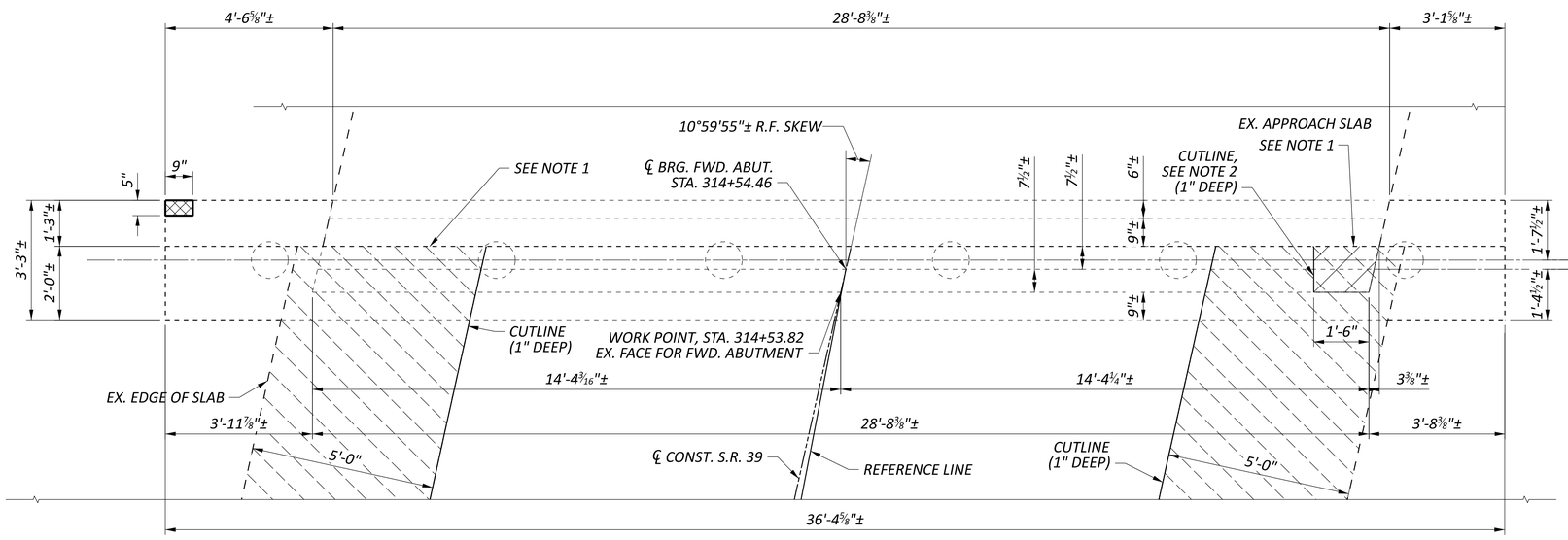
REVIEWER: JAC 07/27/23

PROJECT ID: 108814

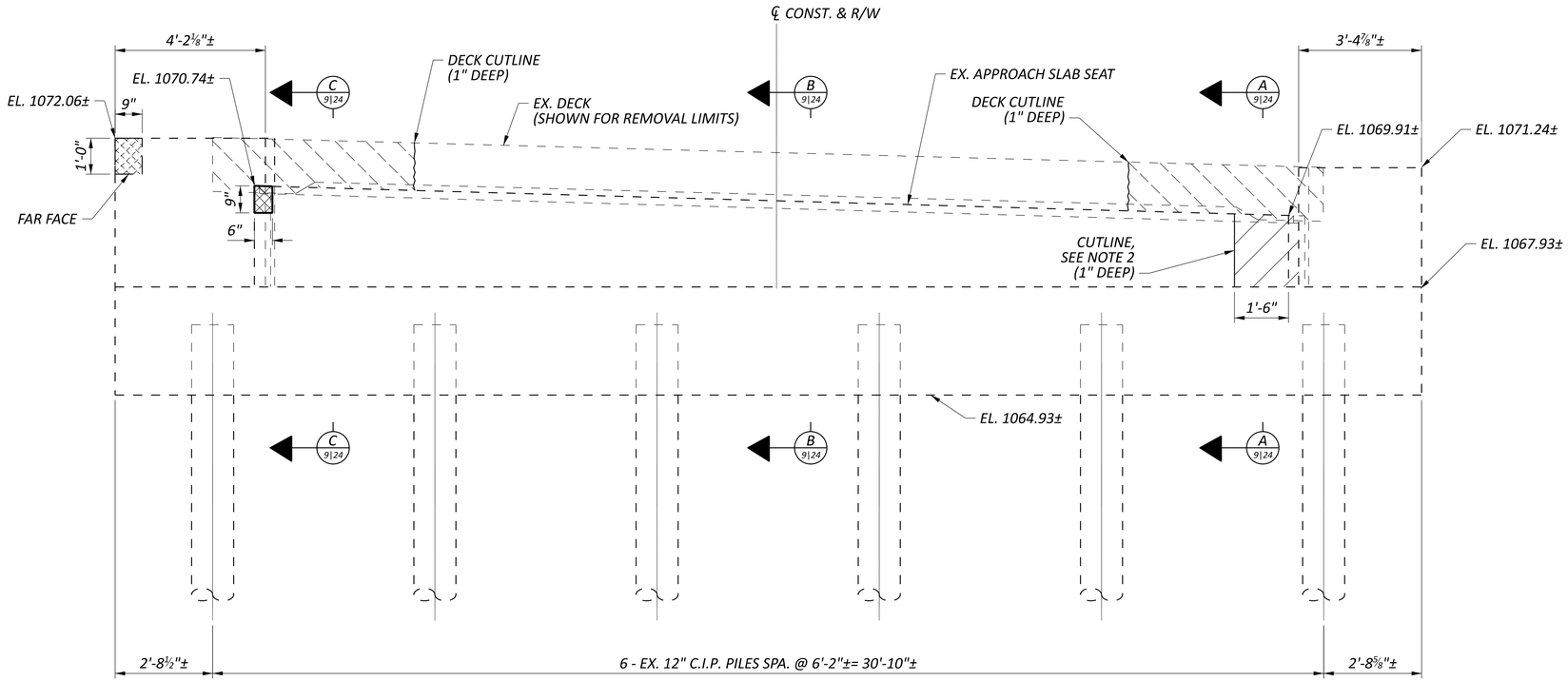
SUBSET	TOTAL
7	24

SHEET	TOTAL
P.47	64

HOL-39-5.87



PLAN



ELEVATION

NOTES:

1. *CAREFULLY REMOVE PORTIONS OF DECK AGAINST ABUTMENT WINGWALL AND EX. BRIDGE SLAB SEAT WITHOUT CAUSING DAMAGE TO EXISTING STRUCTURE. DAMAGE INCURRED BY INAPPROPRIATE REMOVAL METHODS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.*

2. *REMOVE PORTIONS OF CONCRETE BREASTWALL TO BE FLUSH WITH THE WINGWALL AND TOP OF FOOTING TO THE LIMITS SHOWN IN SECTION A ON SHEET 9 | 24. THE EXISTING CONCRETE REINFORCEMENT SHALL REMAIN UNLESS OTHERWISE DETERMINED BY THE ENGINEER, THEN THE DAMAGED COMPONENTS SHALL BE REMOVED AND REPLACED PER ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN.*

3. *FOR DECK REMOVAL DETAILS SEE SHEET 18 | 24*

PATCHING CALCULATIONS
TOP LEFT WINGWALL: 5" X 9" = 0.3 SQ FT
FACE LEFT WINGWALL: (1'-0" X 9") + (6" X 9") = 1.1 SQ FT
(TOTALS CARRIED TO OFFICE CALCS)

LEGEND

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

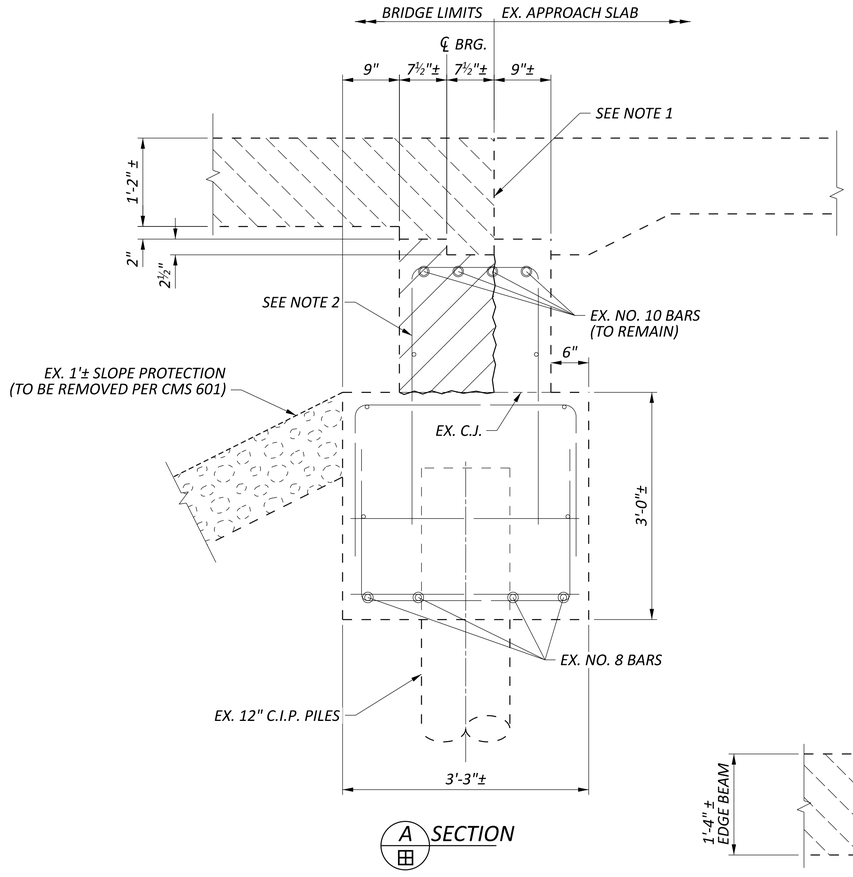
ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (DECK)

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

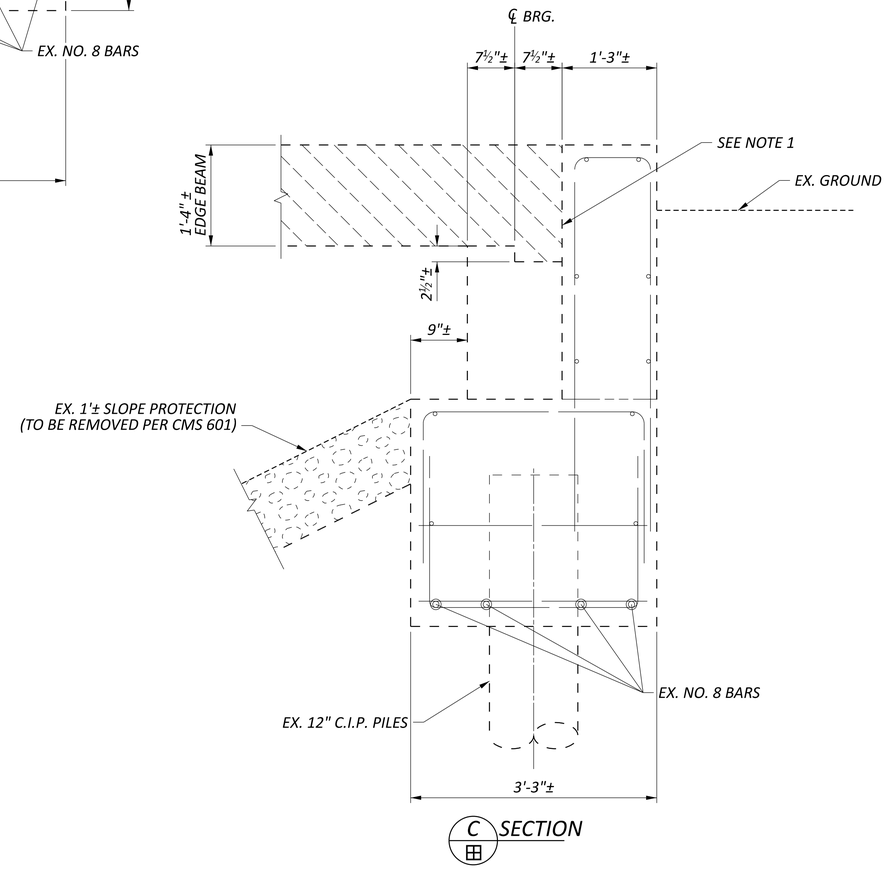
FORWARD ABUTMENT REMOVAL DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 8 | TOTAL 24
SHEET P.48 | TOTAL 64

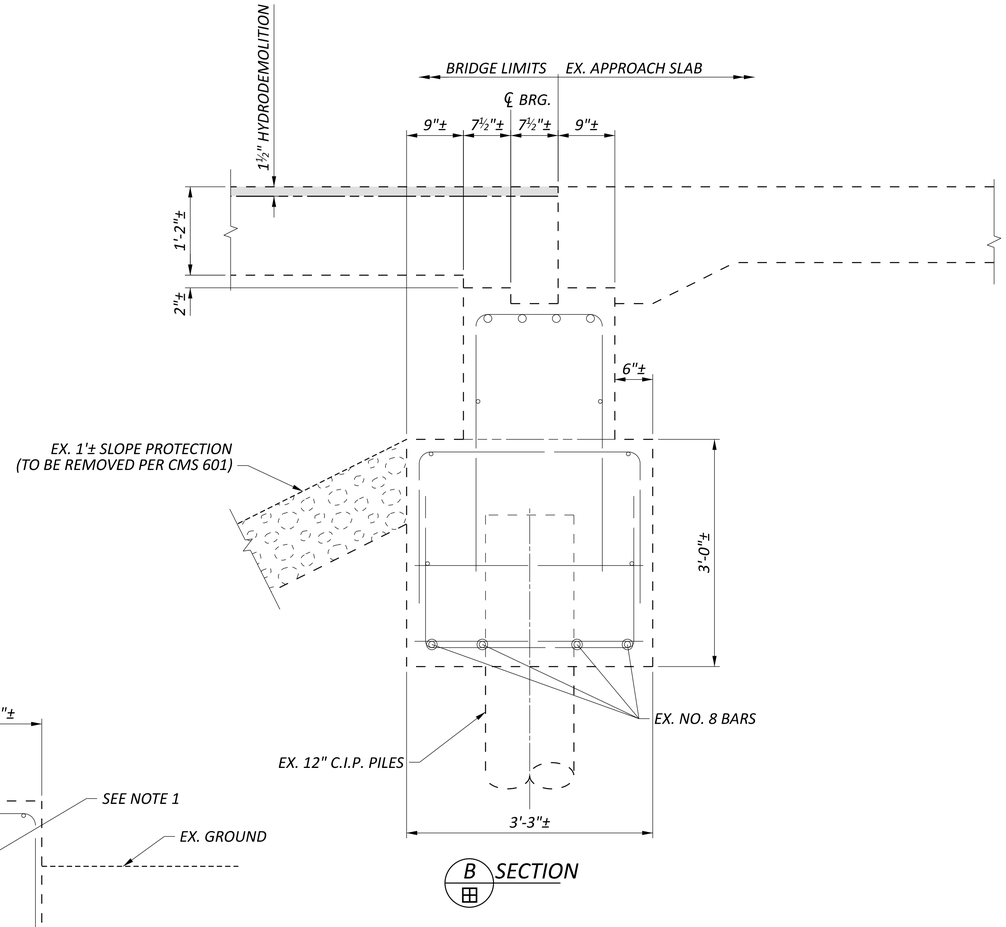
HOL-39-5.87



A SECTION



C SECTION



B SECTION

LEGEND

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN (DECK)

NOTE:

1. CAREFULLY REMOVE PORTIONS OF DECK AGAINST ABUTMENT WINGWALL AND EX. BRIDGE SLAB SEAT WITHOUT CAUSING DAMAGE TO EXISTING STRUCTURE. DAMAGE INCURRED BY INAPPROPRIATE REMOVAL METHODS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.

2. REMOVE PORTIONS OF CONCRETE BREASTWALL TO BE FLUSH WITH THE WINGWALL AND TOP OF FOOTING TO THE LIMITS SHOWN IN SECTION A ABOVE. THE EXISTING CONCRETE REINFORCEMENT SHALL REMAIN UNLESS OTHERWISE DETERMINED BY THE ENGINEER, THEN THE DAMAGED COMPONENTS SHALL BE REMOVED AND REPLACED PER ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN.

3. ⊞ 7 | 24 & 8 | 24

4. ALL EXISTING CONCRETE REINFORCEMENT ARE NO. 5 BARS UNLESS OTHERWISE NOTED.

ABUTMENT REMOVAL DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	9
TOTAL	24
SHEET	P.49
TOTAL	64

HOL-39-5.87

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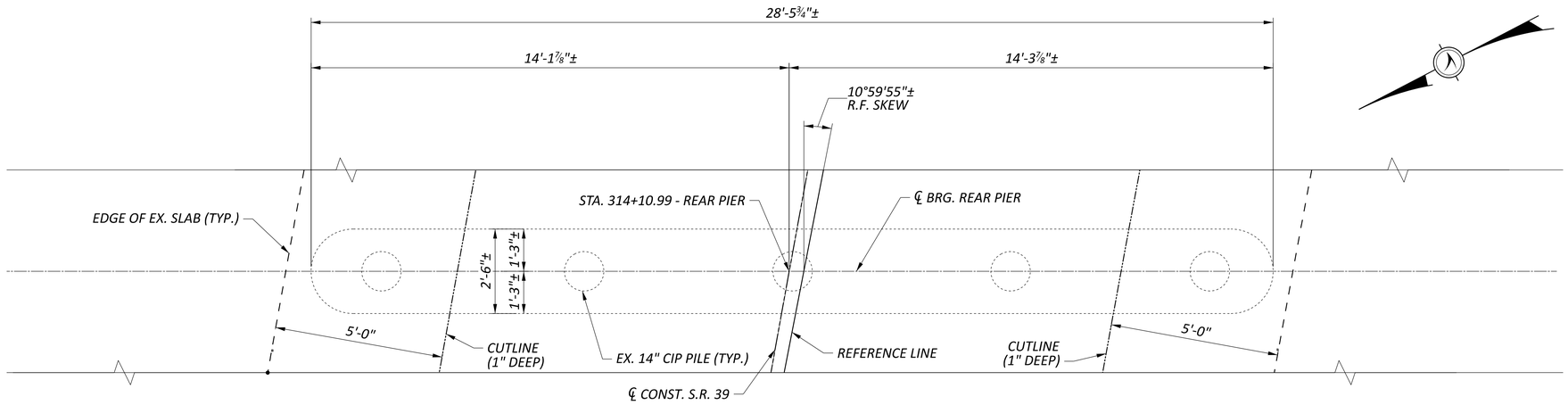
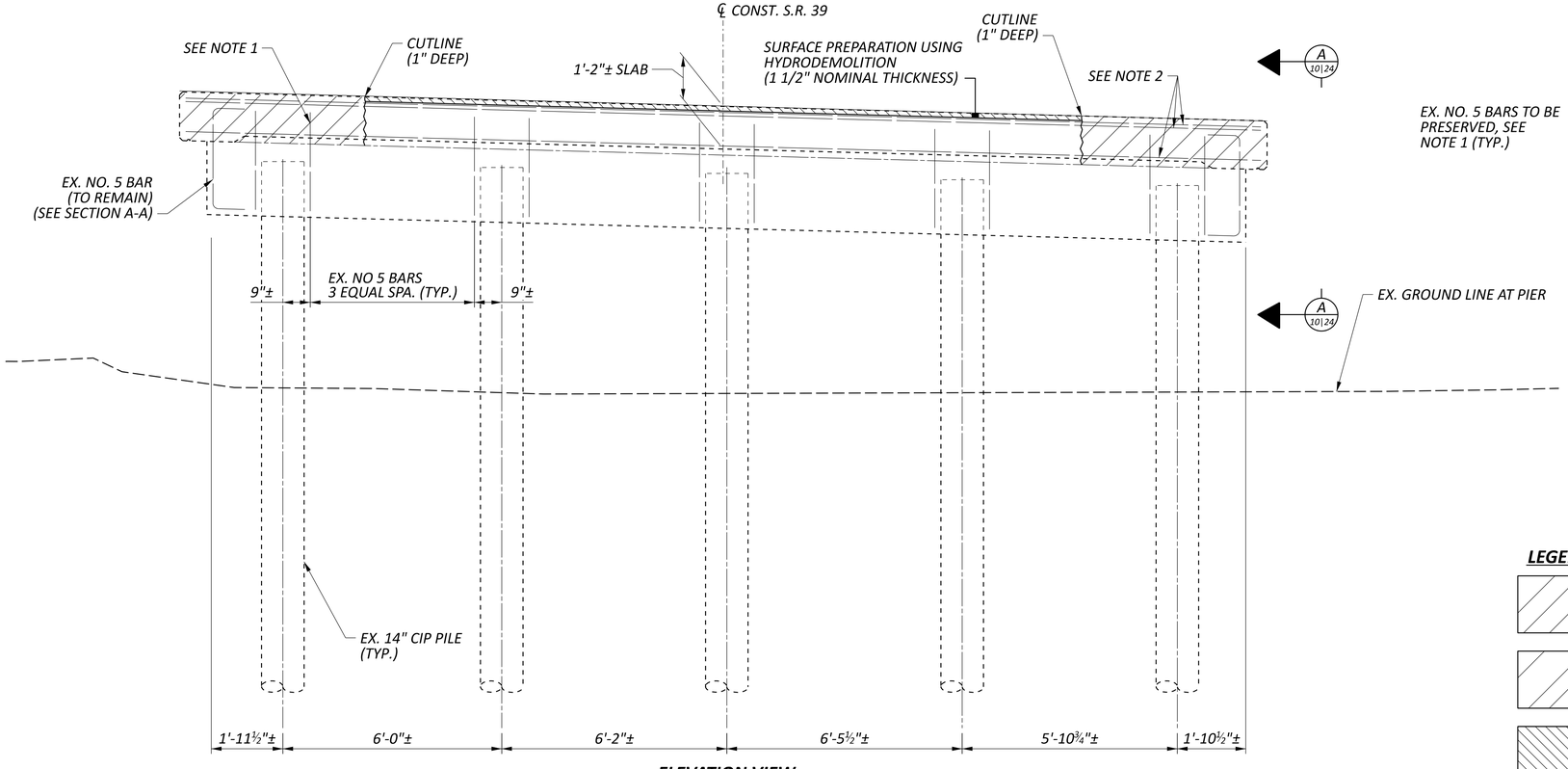


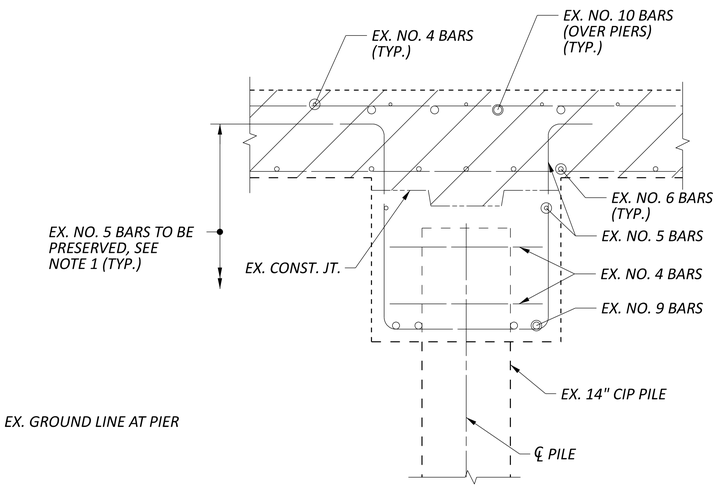
PLAN VIEW

NOTES:

1. CARE SHALL BE USED IN REMOVING PORTIONS OF THE EXISTING SLAB OVER THE PIER CAPS. PRESERVE THE EXISTING CONCRETE REINFORCEMENT PROTRUDING OUT OF THE PIER CAP ABOVE THE EXISTING CONSTRUCTION JOINT INTO THE SLAB. SEE PROPOSED PIER CAP DETAILS ON SHEET 17|24 FOR ADDITIONAL INFORMATION.
2. THE CONTRACTOR SHALL PRESERVE THE EXISTING TRANSVERSE BARS (NO. 4 BARS TOP, EXTRA NO. 10 BARS OVER PIERS, AND NO. 6 BARS BOTTOM) PROTRUDING FROM THE DECK CUTLINE.
3. FOR DECK REMOVAL DETAIL, SEE SHEET 18|24
4. ⊞ 10|24 & 11|24



ELEVATION VIEW
(EXISTING GROUND ALONG ℄ PIER)



A SECTION ⊞

LEGEND

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

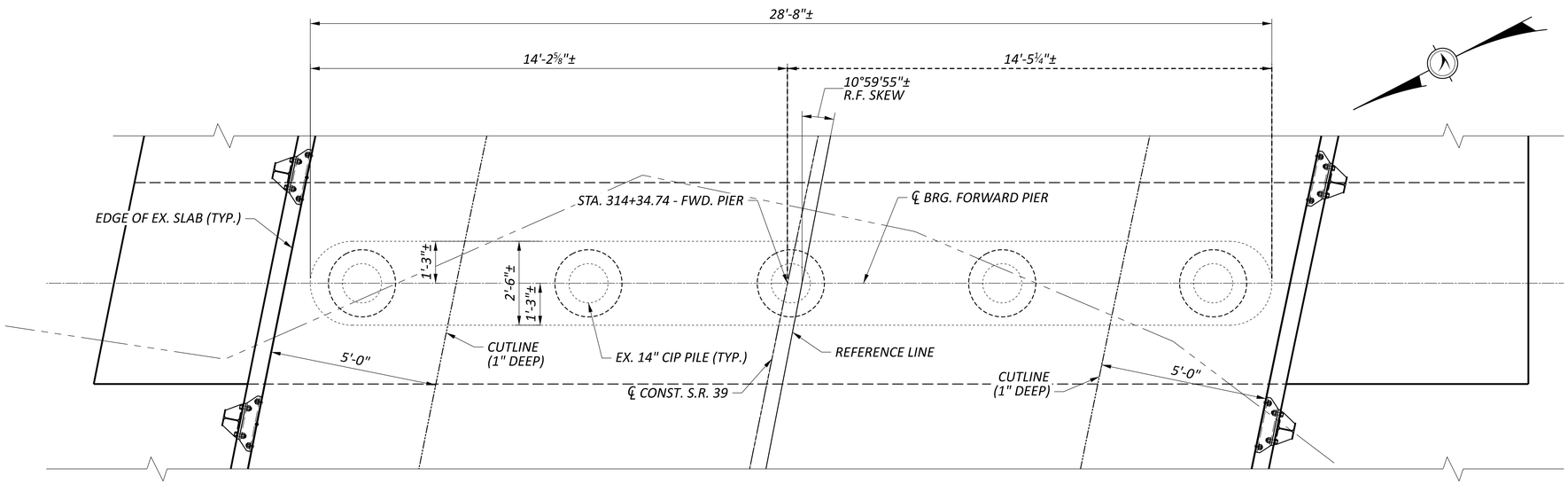
EXCAVATION (INCLUDED WITH ITEM SPECIAL - PILE ENCASEMENT)

ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION

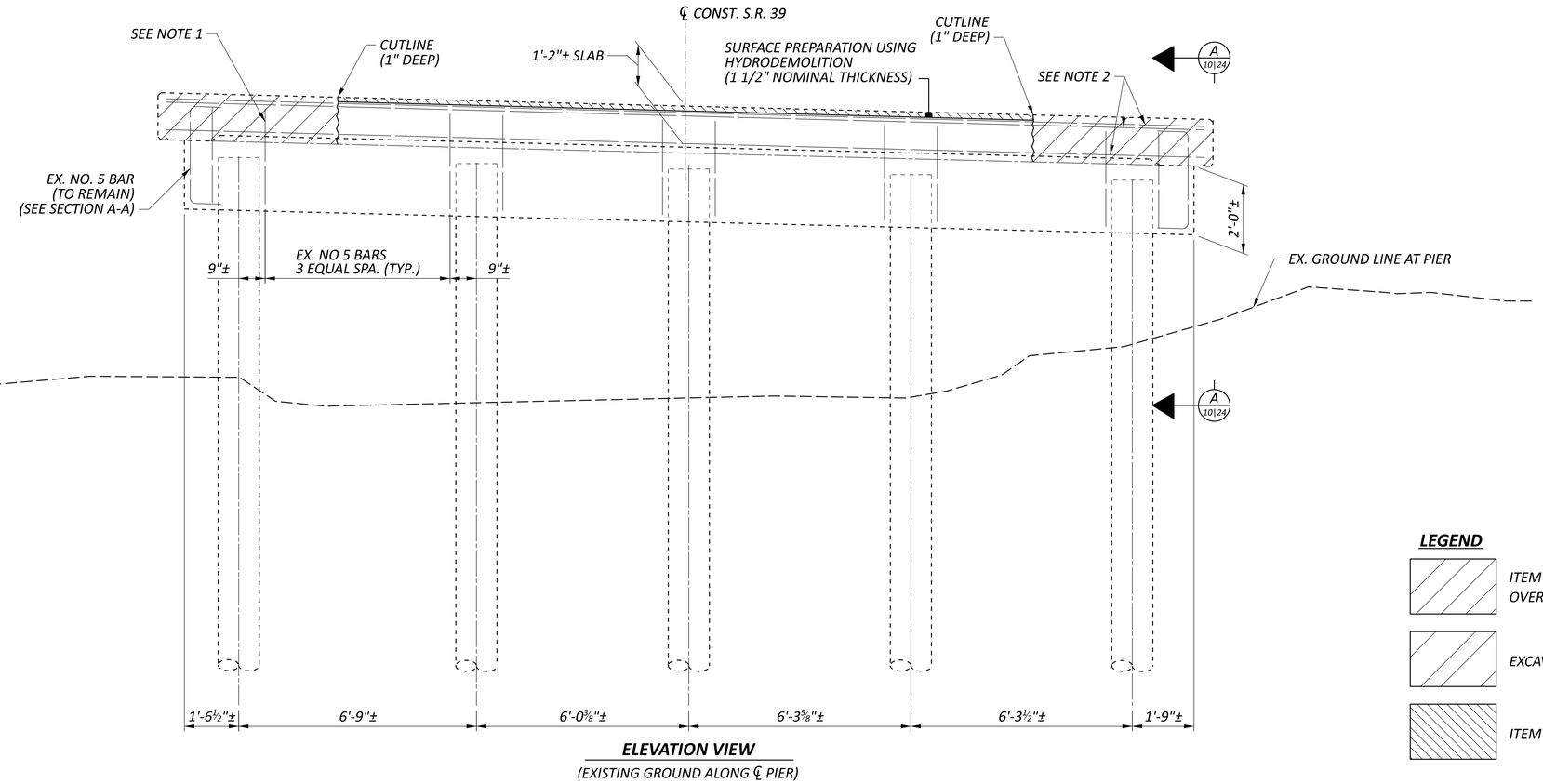
REAR PIER REMOVAL DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	10
TOTAL	24
SHEET	P.50
TOTAL	64

HOL-39-5.87



PLAN VIEW



ELEVATION VIEW

(EXISTING GROUND ALONG ℄ PIER)

NOTES:

1. *CARE SHALL BE USED IN REMOVING PORTIONS OF THE EXISTING SLAB OVER THE PIER CAPS. PRESERVE THE EXISTING CONCRETE REINFORCEMENT PROTRUDING OUT OF THE PIER CAP ABOVE THE EXISTING CONSTRUCTION JOINT INTO THE SLAB. SEE PROPOSED PIER CAP DETAILS ON SHEET 17|24 FOR ADDITIONAL INFORMATION.*
2. *THE CONTRACTOR SHALL PRESERVE THE EXISTING TRANSVERSE BARS (NO. 4 BARS TOP, EXTRA NO. 10 BARS OVER PIERS, AND NO. 6 BARS BOTTOM) PROTRUDING FROM THE DECK CUTLINE.*
3. *FOR DECK REMOVAL DETAIL, SEE SHEET 18|24*

LEGEND

- *ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN*
- *EXCAVATION (INCLUDED WITH ITEM SPECIAL - PILE ENCASEMENT)*
- *ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION*

FORWARD PIER REMOVAL DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	11
TOTAL	24
SHEET	P.51
TOTAL	64

HOL-39-5.87

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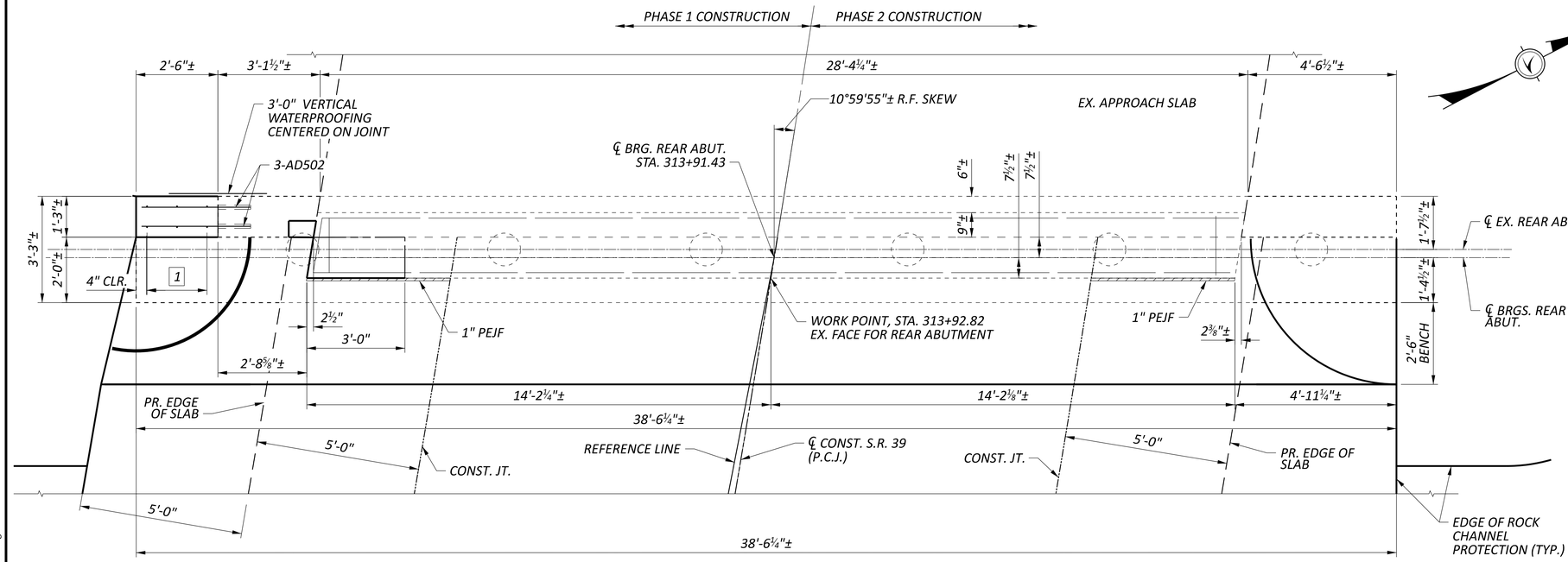
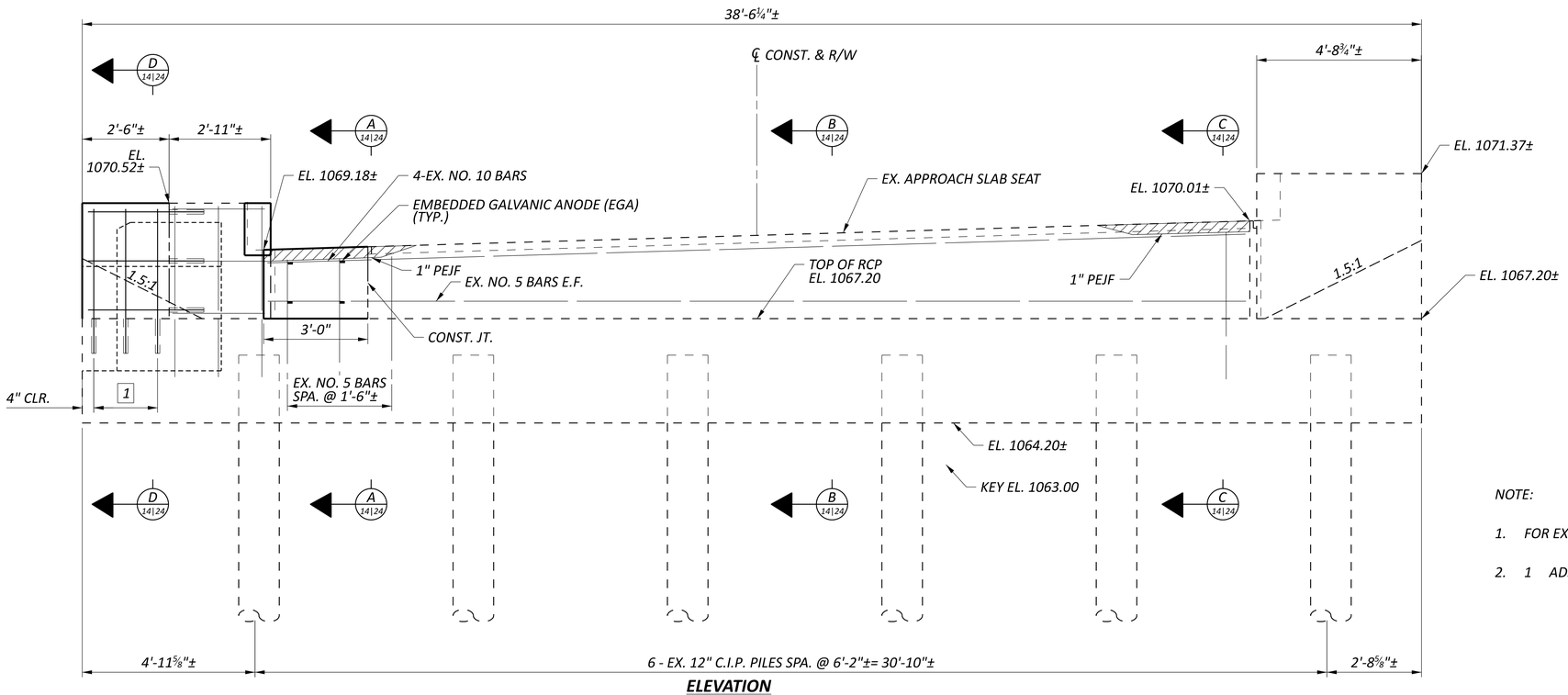


PLAN



ELEVATION

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (ABUTMENTS)

FOLLOW SUPPLEMENTAL SPECIFICATION 844 AND BDM 405.4.

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON-CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 30 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 390 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (REAR ABUTMENT) --------- **4 EACH**

NOTE:

1. FOR EXISTING REAR ABUTMENT REMOVAL DETAILS SEE SHEET 7 | 24
2. 1 AD501 E.F. SPA. @ 11" = 1'-10"

REAR ABUTMENT DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	RPT

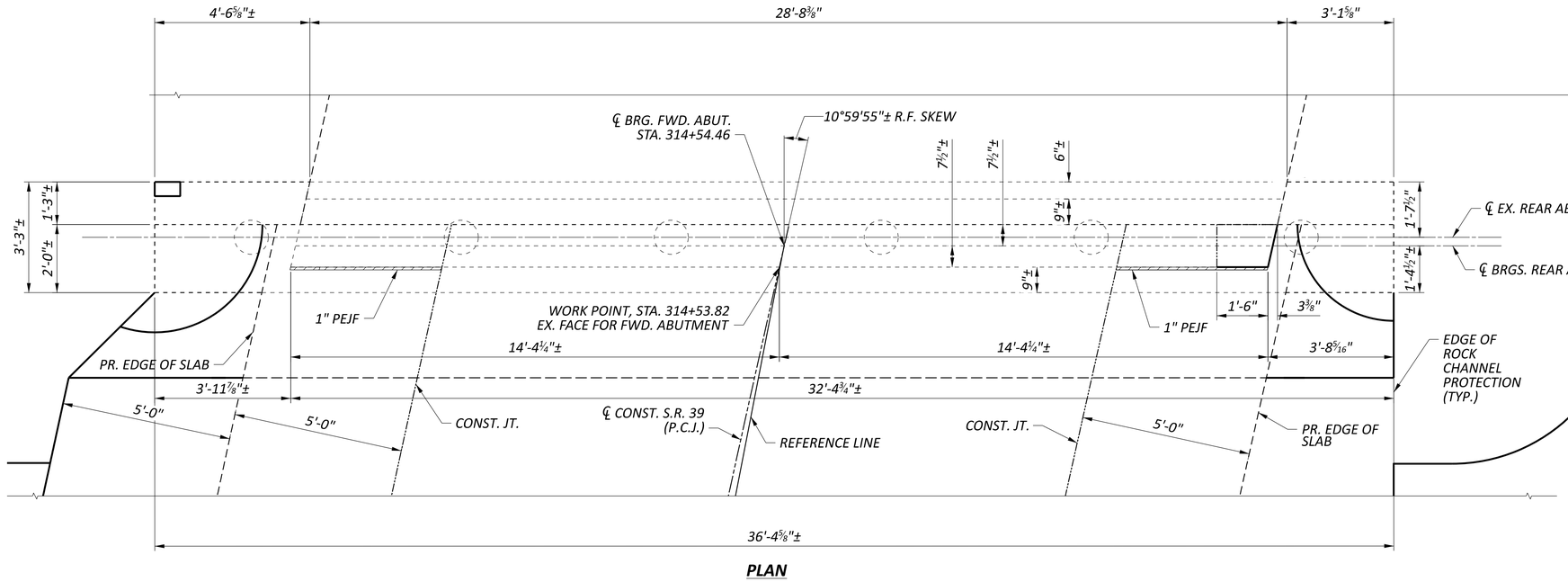
REVIEWER JAC 07/27/23

PROJECT ID 108814

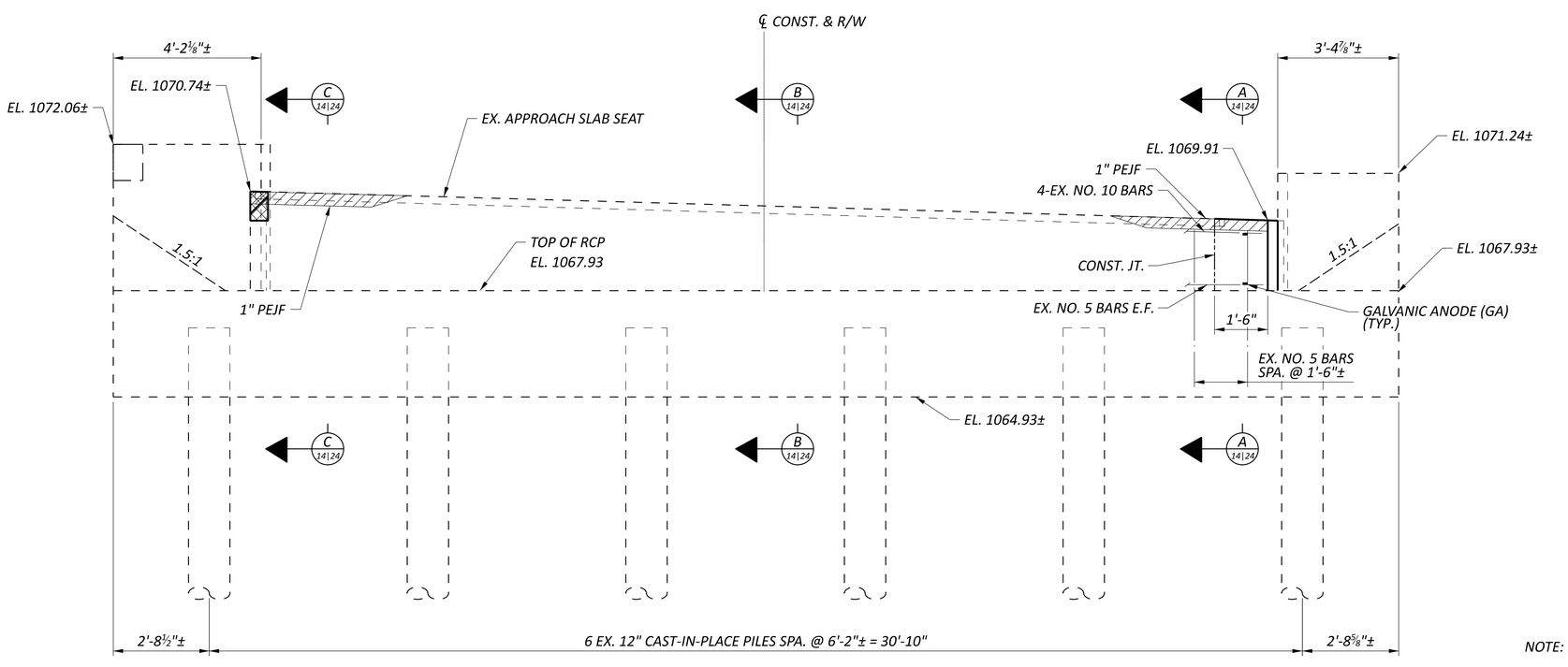
SUBSET	TOTAL
12	24

SHEET	TOTAL
P.52	64

HOL-39-5.87



PLAN



FORWARD ABUTMENT ELEVATION

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (ABUTMENTS)

FOLLOW SUPPLEMENTAL SPECIFICATION 844 AND BDM 405.4.

REPAIR CONCRETE SHALL BE HYDRAULIC CEMENT-BASED MATERIAL WITH A ELECTRICAL RESISTIVITY LESS THAN 50,000 OHM-CM ACCORDING TO ASTM C 1760. DO NOT USE NON- CONDUCTIVE REPAIR MATERIALS SUCH AS MAGNESIUM AMMONIUM PHOSPHATE CONCRETE AND EPOXY MORTARS OR BONDING AGENTS. CONCRETE MIXES CONTAINING HIGH LEVELS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS SUCH AS SILICA FUME, GROUND-GRANULATED BLAST FURNACE SLAG, LATEX, FLY ASH OR METAKAOLIN MAY NOT MEET THE RESISTIVITY REQUIREMENT.

THE GALVANIC ANODE SIZE AND SPACING IS BASED ON ACHIEVING A CURRENT DENSITY FOR THE EXTREMELY HIGH CORROSION RISK CATEGORY WITH A 30 YEAR INSTALLATION. SUPPLY ANODES WITH A MINIMUM CORE OF 390 GRAMS OF ZINC. SEE THIS SHEET FOR DISTRIBUTION.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES ON SHEET 5 | 24

ITEM 844 - GALVANIC ANODE PROTECTION, AS PER PLAN, (FORWARD ABUTMENT) --------- **2 EACH**

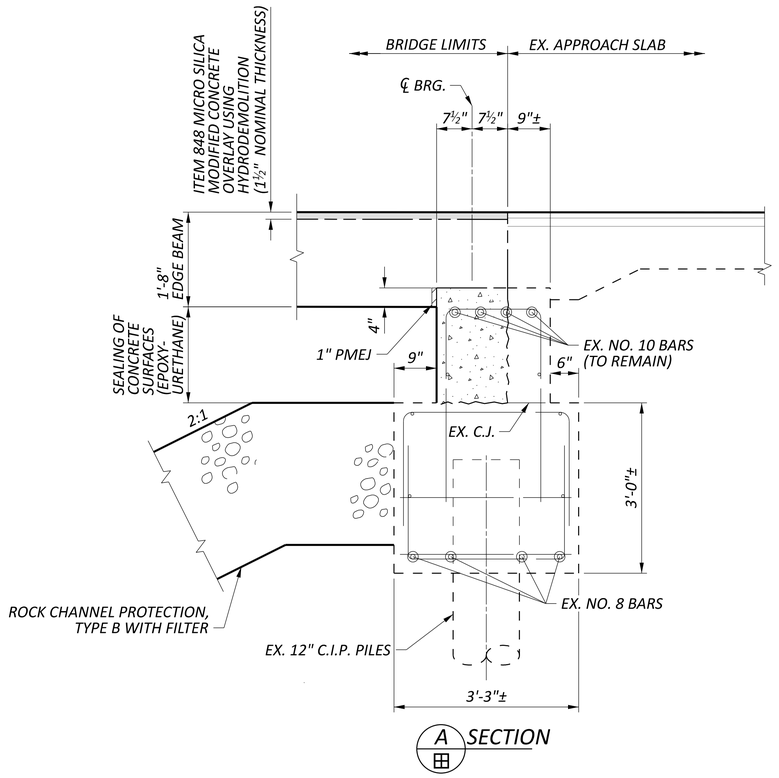
NOTE:

1. FOR EXISTING FORWARD ABUTMENT REMOVAL DETAILS SEE SHEET 8 | 24

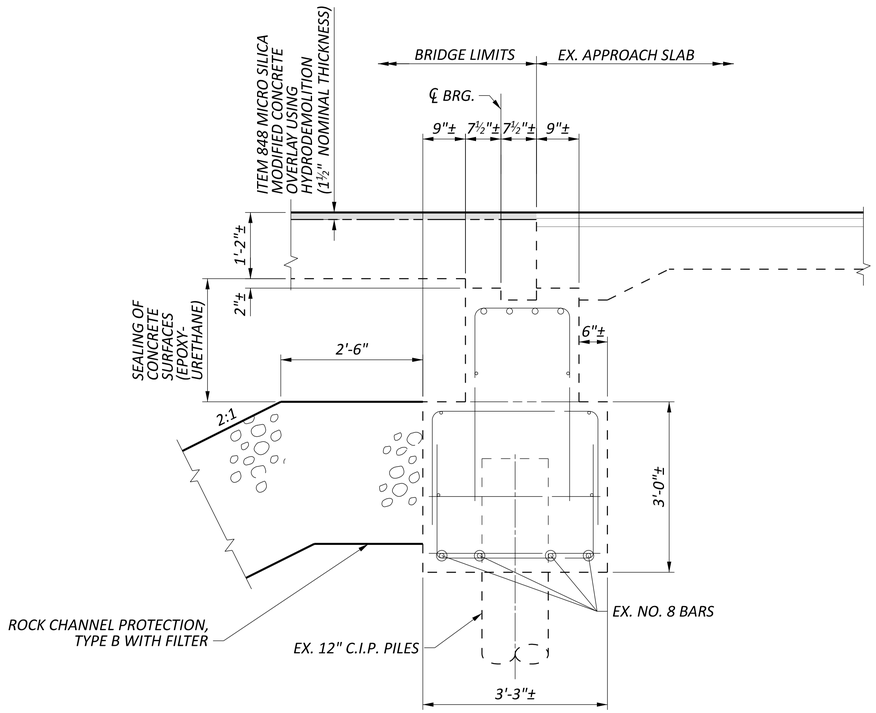
FORWARD ABUTMENT DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	13
TOTAL	24
SHEET	P.53
TOTAL	64

HOL-39-5.87



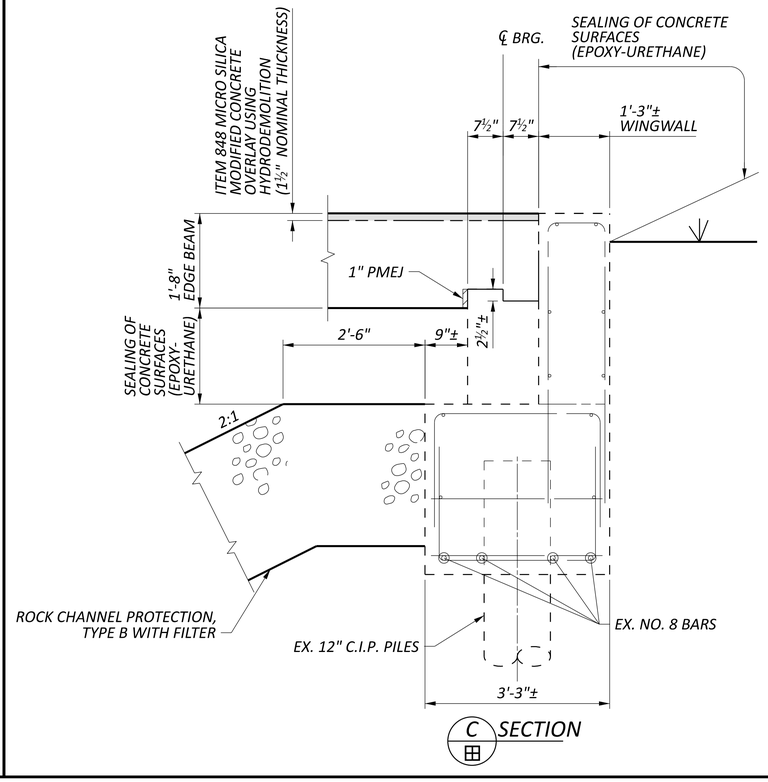
A ⊞ SECTION



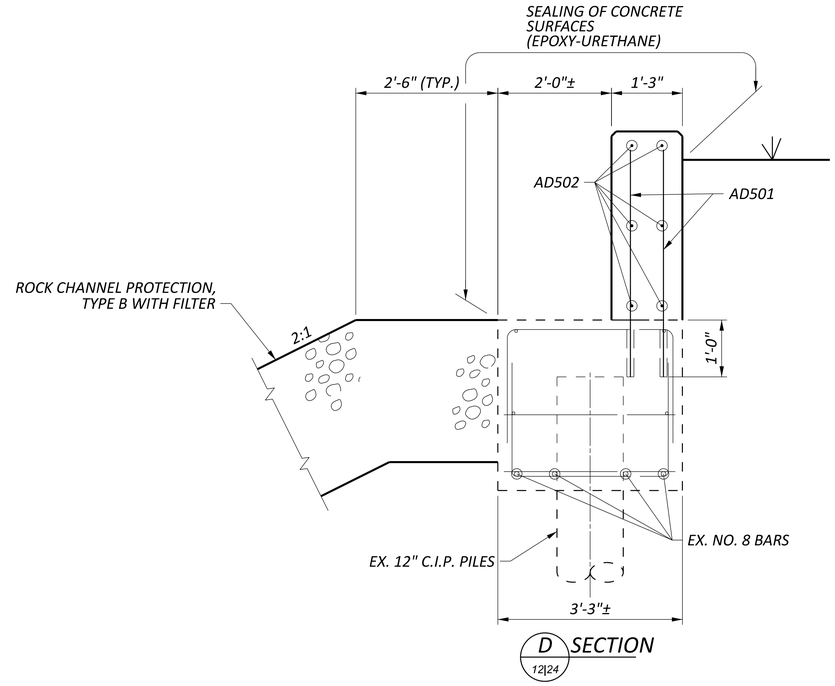
B ⊞ SECTION

NOTES:

1. ⊞ 12|24 & 13|24
2. *ALL EXISTING CONCRETE REINFORCEMENT ARE NO. 5 BARS UNLESS OTHERWISE NOTED.*



C ⊞ SECTION



D ⊞ SECTION
12|24

ABUTMENT DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	14
TOTAL	24
SHEET	P.54
TOTAL	64

HOL-39-5.87

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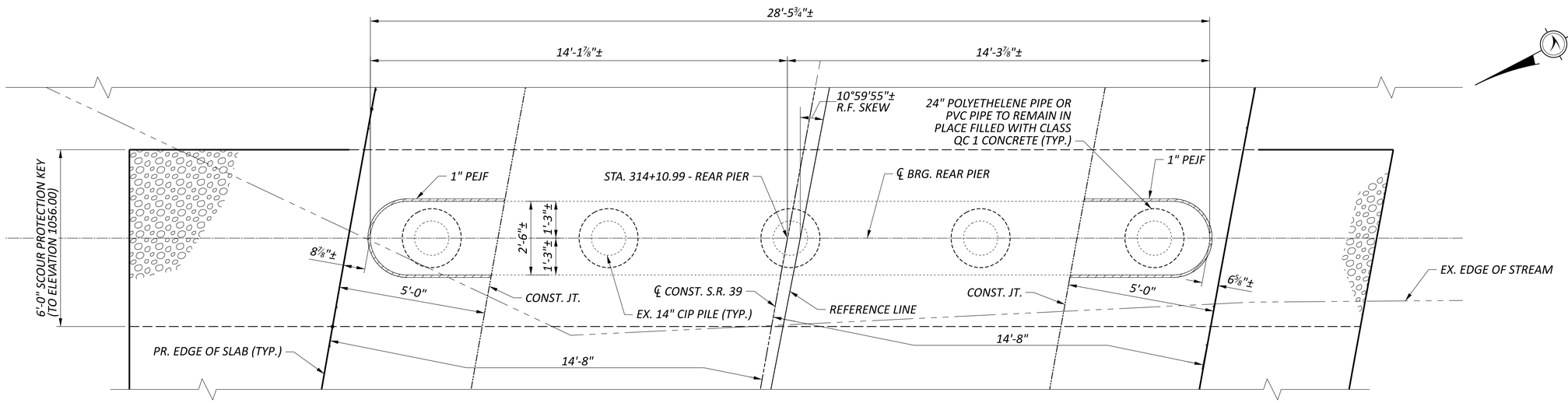
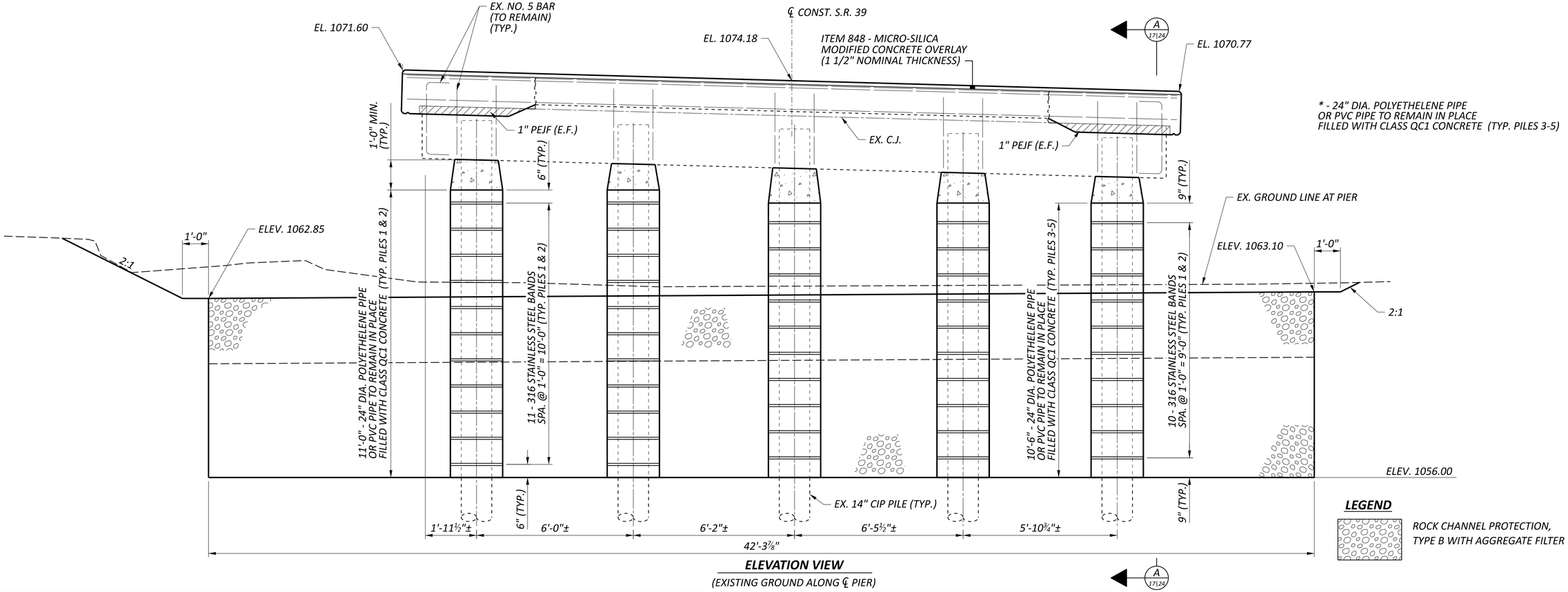


PLAN VIEW

NOTES:

1. FOR STEEL BAND DETAIL, SEE STRUCTURE SHEET 17 | 24



ELEVATION VIEW
(EXISTING GROUND ALONG ℄ PIER)

* - 24" DIA. POLYETHELENE PIPE OR PVC PIPE TO REMAIN IN PLACE FILLED WITH CLASS QC1 CONCRETE (TYP. PILES 3-5)

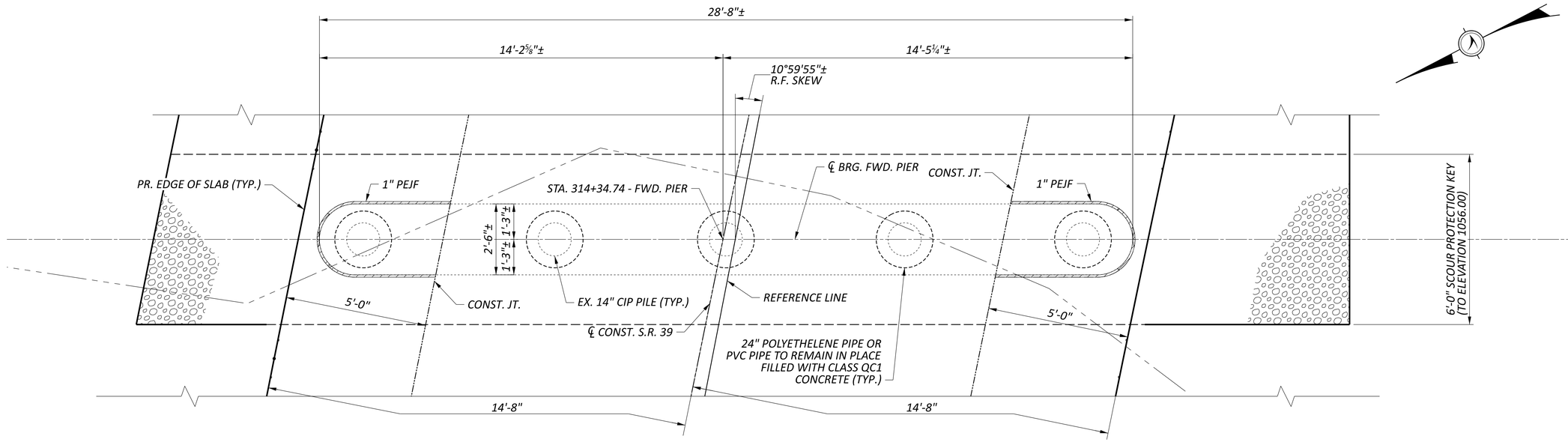
LEGEND

ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER

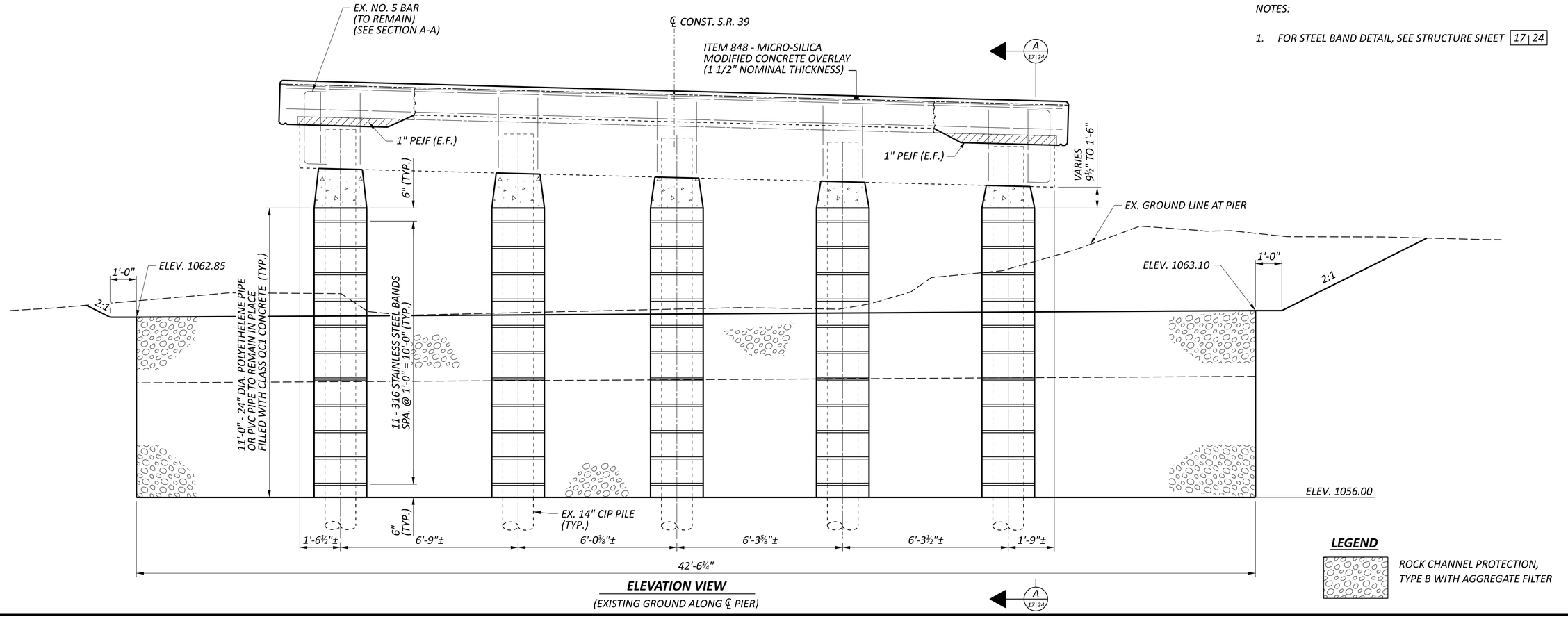
REAR PIER DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	15
TOTAL	24
SHEET	P.55
TOTAL	64

HOL-39-5.87



PLAN VIEW



ELEVATION VIEW

(EXISTING GROUND ALONG ℄ PIER)

NOTES:

1. *FOR STEEL BAND DETAIL, SEE STRUCTURE SHEET* 17|24

LEGEND

ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER

FORWARD PIER DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	16
TOTAL	24
SHEET	P.56
TOTAL	64

HOL-39-5.87

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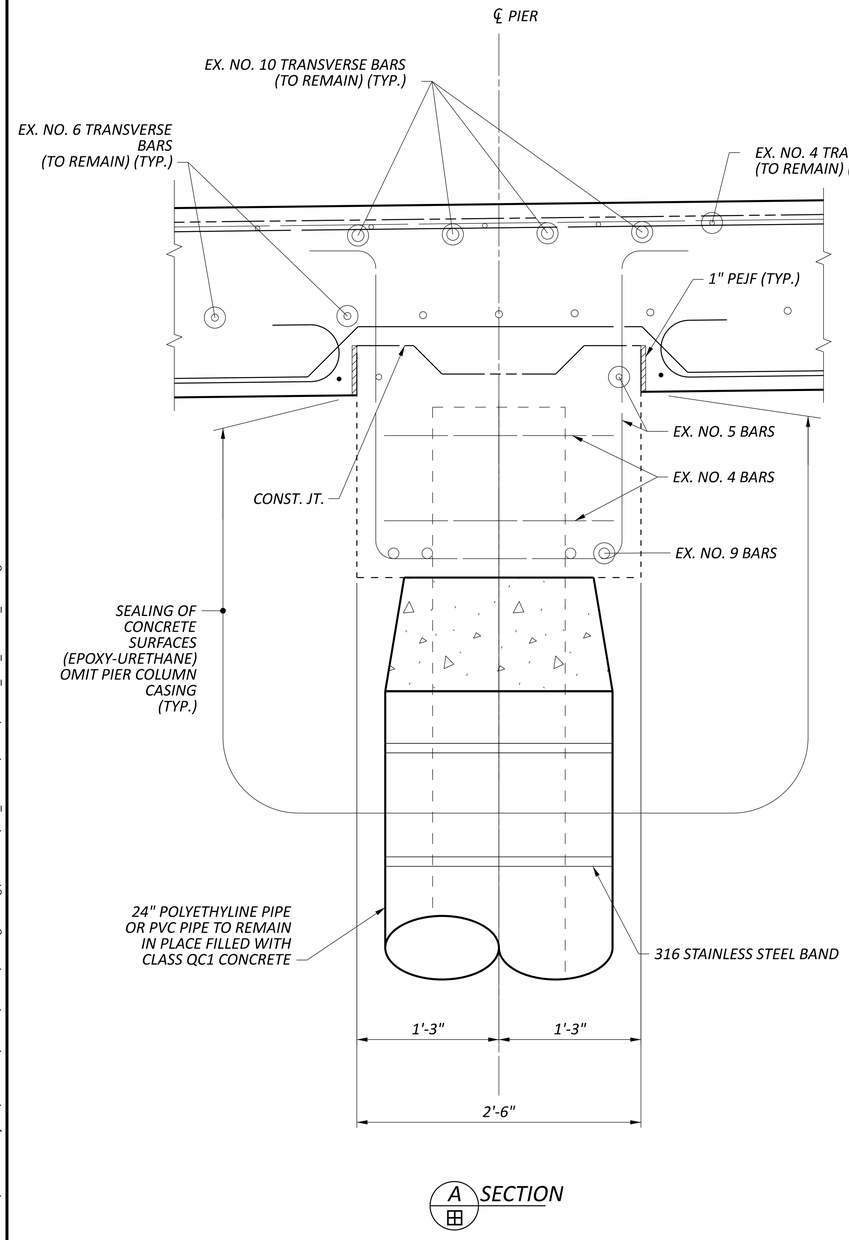
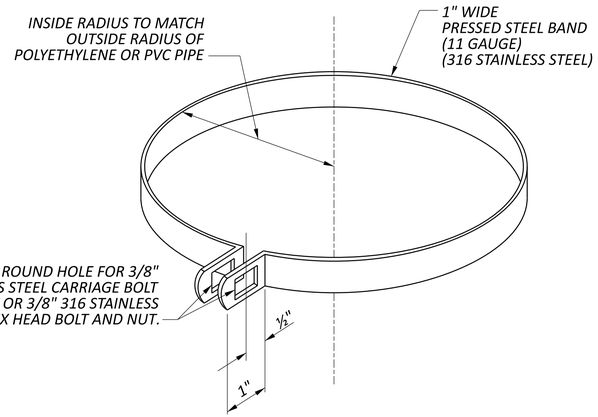


A ⊞ SECTION



STEEL BAND DETAIL

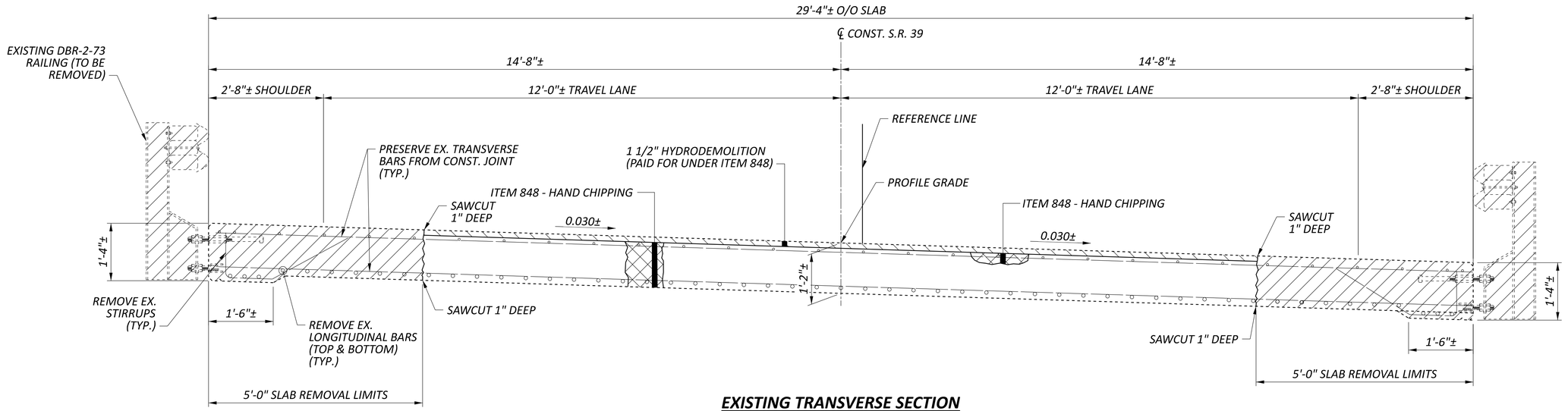
NOTES:

1. *IN THE EVENT THE EXISTING REINFORCED STEEL IS DAMAGED DURING REMOVAL OPERATIONS THE CONTRACTOR SHALL REPLACE THE AFFECTED PIECES AT THEIR EXPENSE. THE CONTRACTOR SHALL SUBMIT A REPAIR PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING THE REPAIR.*
2. ⊞ 15|24 & 16|24

PIER DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	17
TOTAL	24
SHEET	P.57
TOTAL	64

HOL-39-5.87



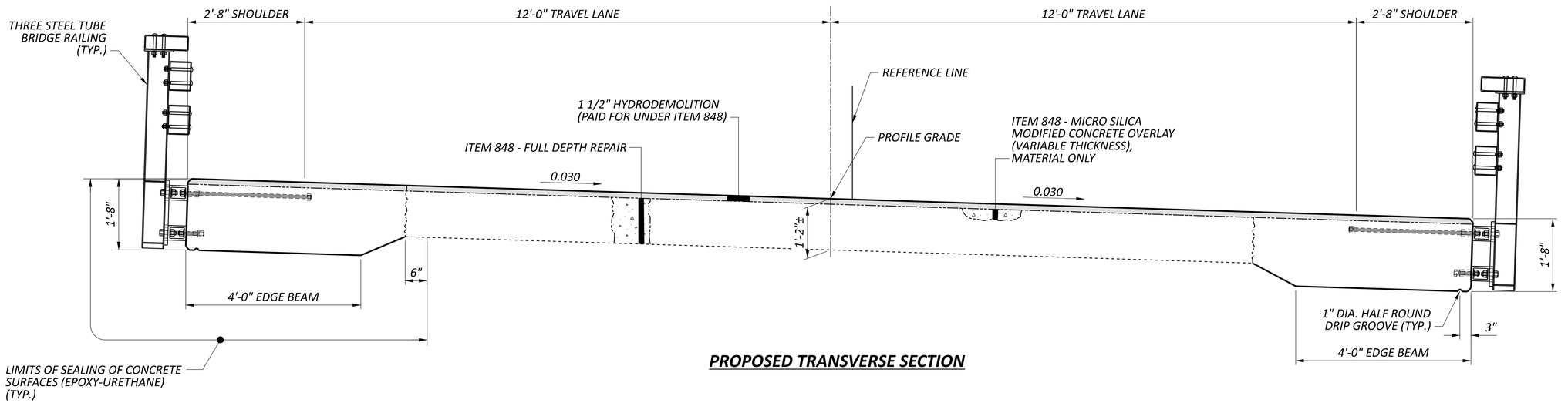
EXISTING TRANSVERSE SECTION

NOTE:

1. *WHERE THE DECK IS SOUND FOR LESS THAN ONE HALF OF THE ORIGINAL DECK THICKNESS, THE CONCRETE SHALL BE REMOVED FULL DEPTH EXCEPT FOR LIMITED AREAS AS MAY BE DESIGNATED BY THE ENGINEER.*

LEGEND

- *ITEM 848 - SURFACE PREPARATION USING HYDRODEMOLITION (1 ½" NOMINAL THICKNESS)*
- *ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN*
- *ITEM 848 - HAND CHIPPING*
- *ITEM 848 - MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (1 ½" NOMINAL THICKNESS)*

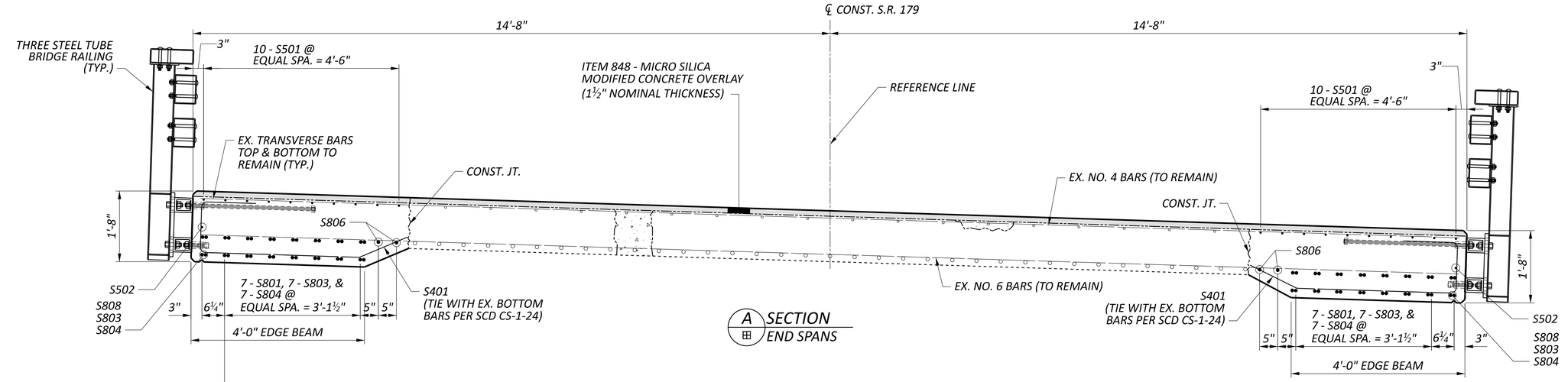


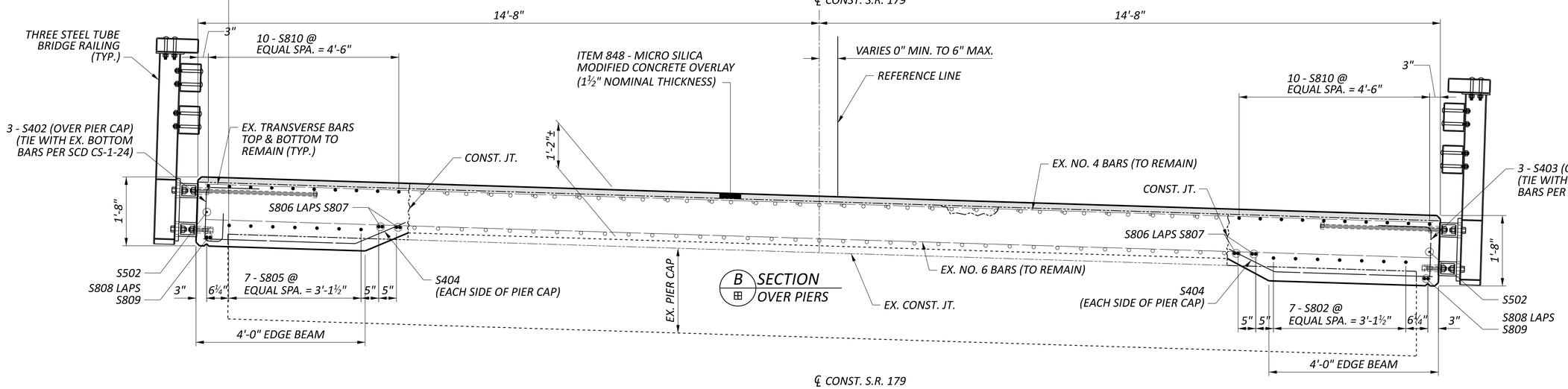
PROPOSED TRANSVERSE SECTION

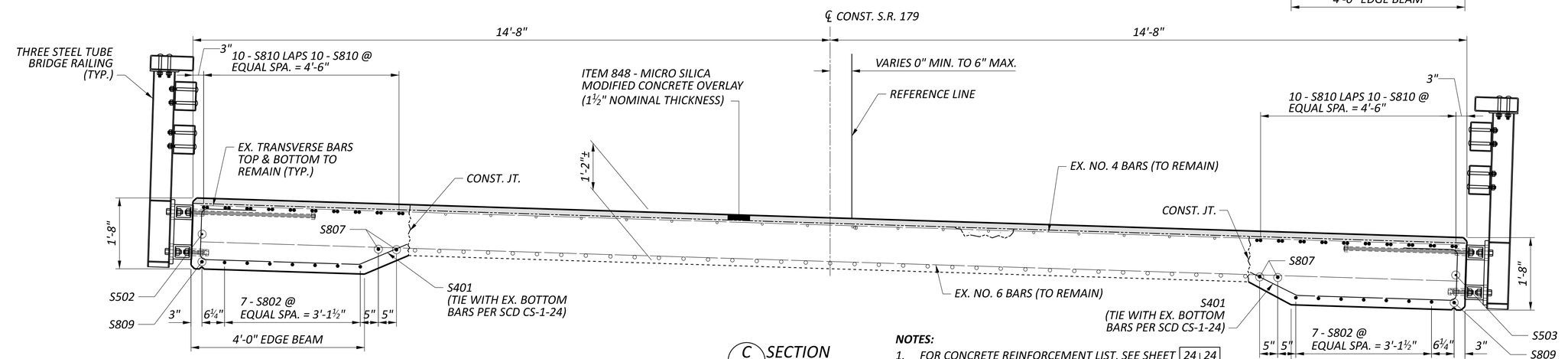
TRANSVERSE SECTION
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	18
TOTAL	24
SHEET	P.58
TOTAL	64

HOL-39-5.87







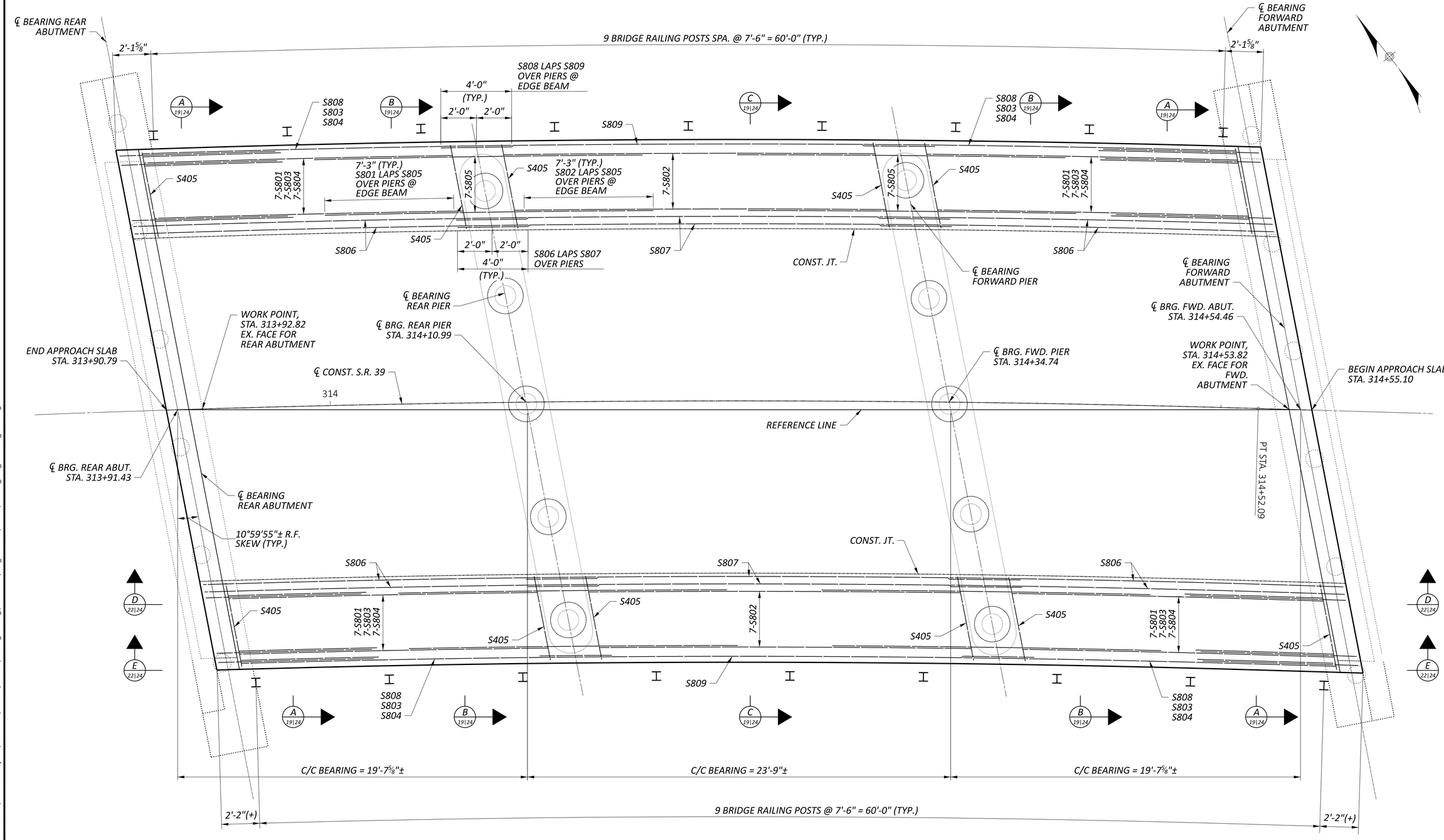
NOTES:

1. FOR CONCRETE REINFORCEMENT LIST, SEE SHEET 24 | 24
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE SCD CS-1-24.
3. ⊞ 20 | 24 & 21 | 24

SLAB DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN	3800229
DESIGN AGENCY	
DESIGNER	MVC
CHECKER	RPT
REVIEWER	JAC 07/27/23
PROJECT ID	108814
SUBSET	19
TOTAL	24
SHEET	P.59
TOTAL	64

HOL-39-5.87



PLAN

BOTTOM MAT REINFORCING STEEL

NOTES:

1. FOR SPACING OF LONGITUDINAL STEEL, SEE SLAB DETAILS ON SHEET 19|24.
2. EXISTING TRANSVERSE STEEL FROM CONSTRUCTION JOINT SHALL REMAIN.
3. FOR PLAN VIEW OF TOP MAT REINFORCING STEEL, SEE STRUCTURE SHEET NO. 21|24.
4. FOR CONCRETE REINFORCEMENT STEEL LIST, SEE STRUCTURE SHEET NO. 24|24.
5. FOR DETAILS NOT SHOWN, SEE SCD CS-1-24.
6. FOUR P601 BARS PLACED OVER PIERS BETWEEN S401 BARS.

SLAB DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	RPT

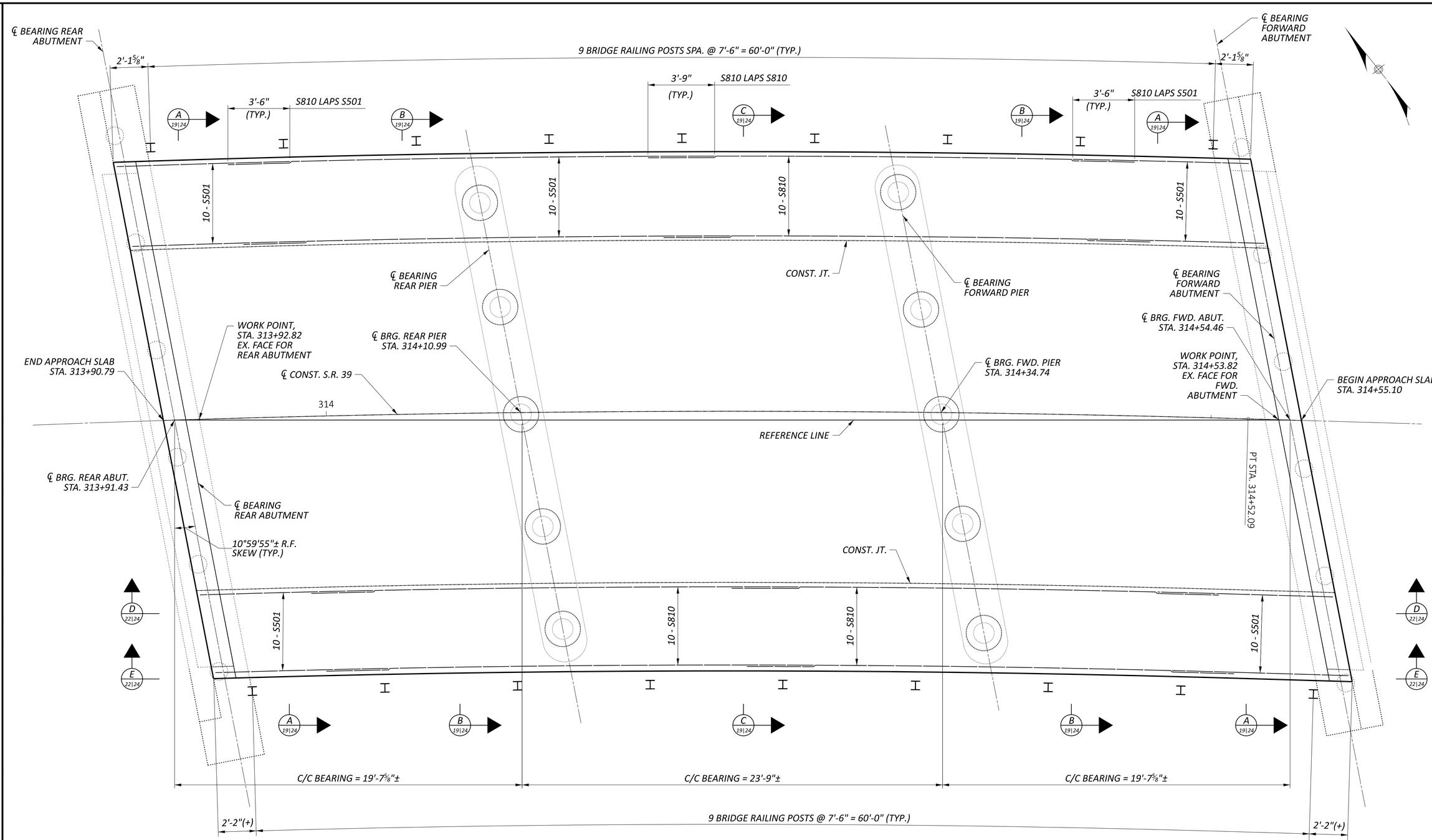
REVIEWER: JAC 07/27/23

PROJECT ID: 108814

SUBSET	TOTAL
20	24

SHEET	TOTAL
P.60	64

HOL-39-5.87



PLAN

TOP MAT REINFORCING STEEL

NOTES:

1. FOR SPACING OF LONGITUDINAL STEEL, SEE SLAB DETAILS ON SHEET 19|24.
2. EXISTING TRANSVERSE STEEL FROM CONSTRUCTION JOINT SHALL REMAIN.
3. FOR PLAN VIEW OF BOTTOM MAT REINFORCING STEEL, SEE STRUCTURE SHEET NO. 20|24 .
4. FOR CONCRETE REINFORCEMENT STEEL LIST, SEE STRUCTURE SHEET NO. 24|24 .
5. FOR DETAILS NOT SHOWN, SEE SCD CS-1-24.
6. FOUR P601 BARS PLACED OVER PIERS BETWEEN S401 BARS.

SLAB DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	RPT

REVIEWER: JAC 07/27/23

PROJECT ID: 108814

SUBSET	TOTAL
21	24

SHEET	TOTAL
P.61	64

HOL-39-5.87

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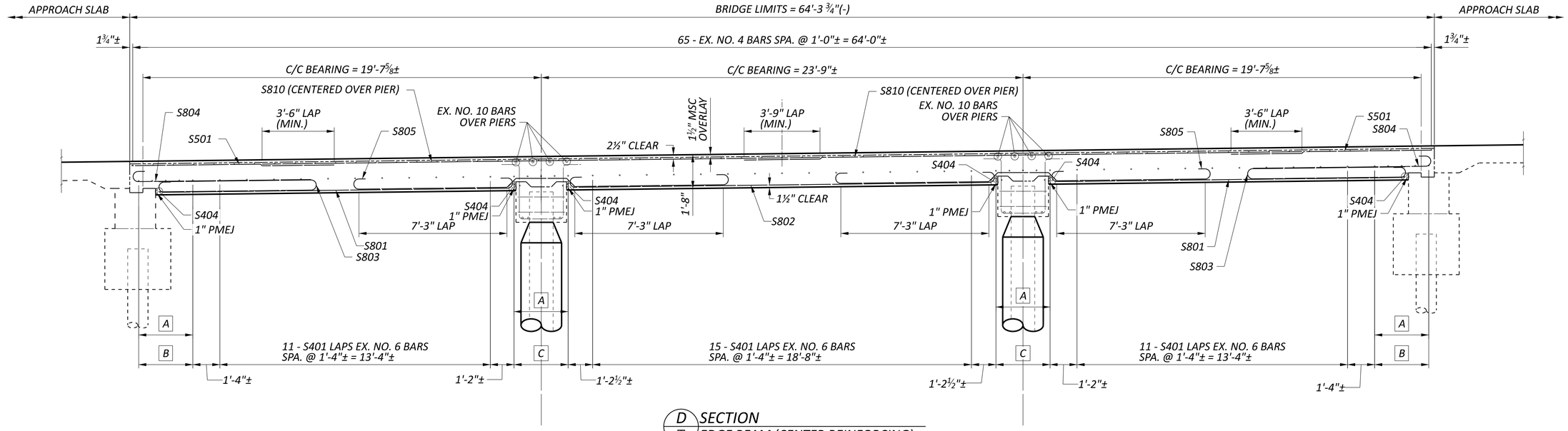
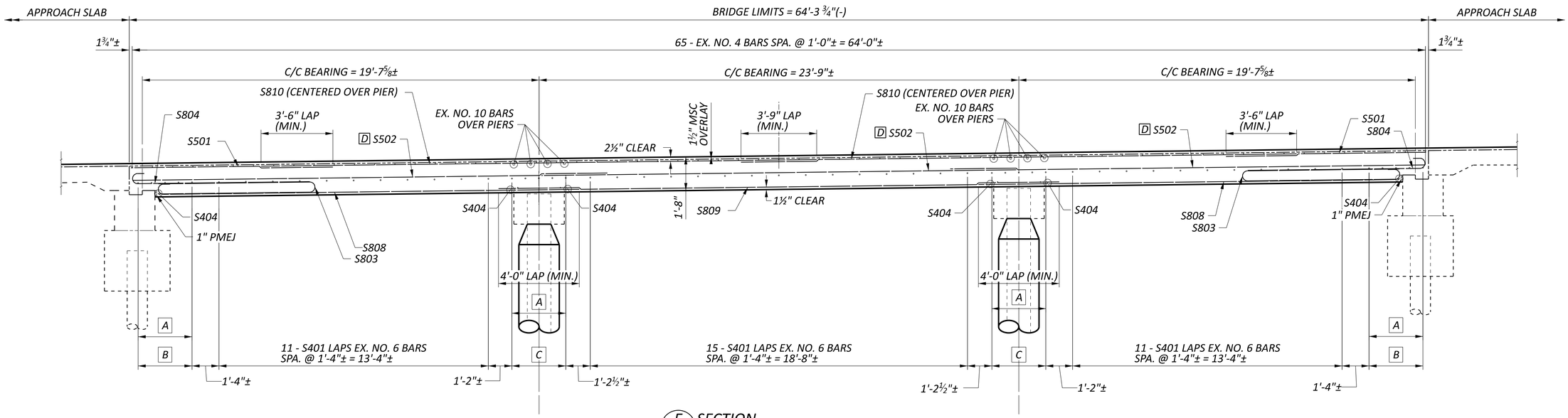


D SECTION
⊞ EDGE BEAM (CENTER REINFORCING)

A 5 - EX. NO. 6 BARS SPA. @ 8"± = 2'-8"±
B 3 - S401 E.F. SPA. @ 1'-4"± = 2'-8"±
C 3 - S402 F.F. & 3 - S403 N.F. SPA. @ 1'-4"± = 2'-8"±
D 3'-3" LAP MIN FOR S502 BARS

⊞ 20 | 24 & 21 | 24

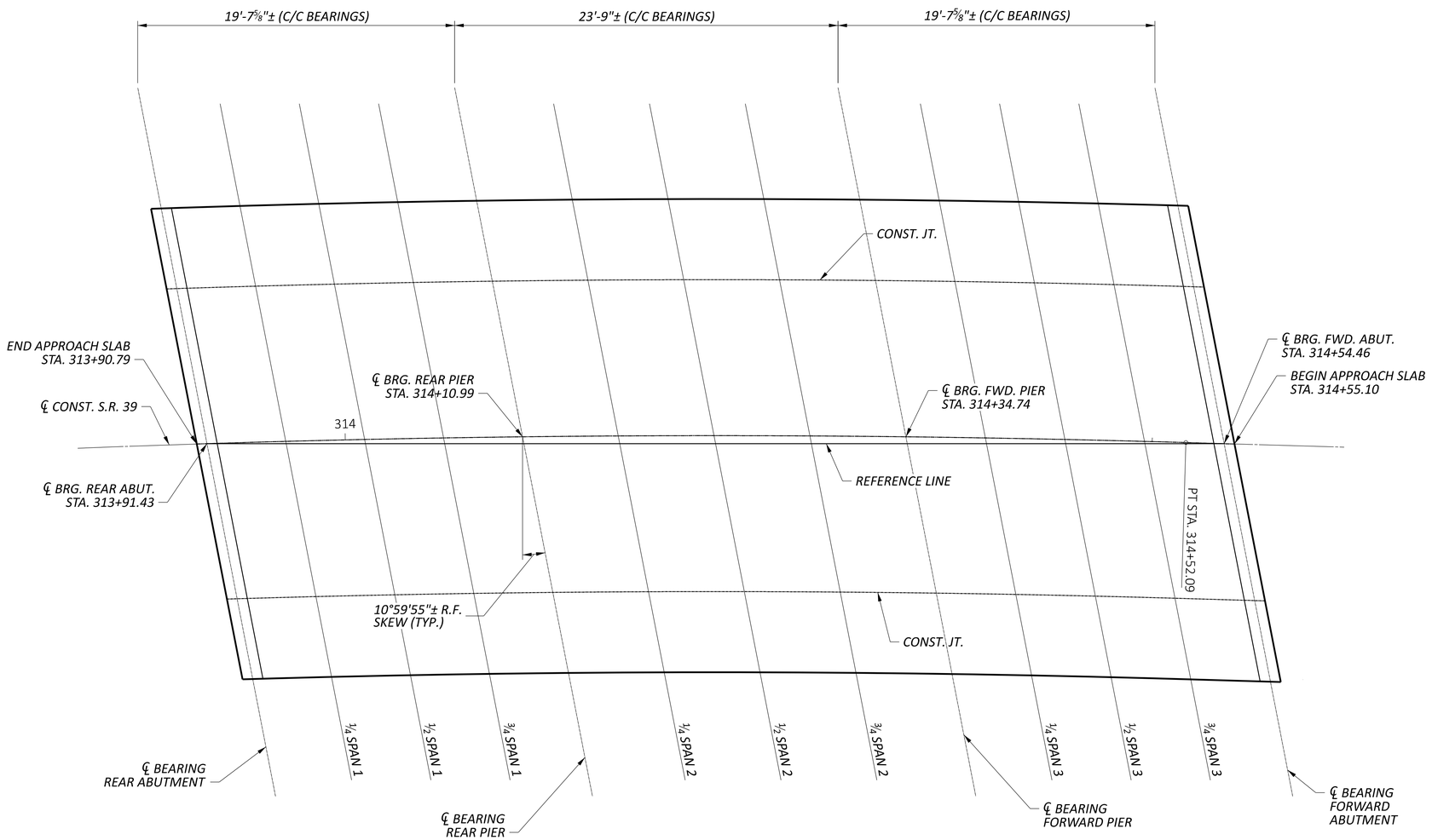


E SECTION
⊞ EDGE BEAM (OUTSIDE REINFORCING)

SLAB DETAILS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 22 | TOTAL 24
SHEET P.62 | TOTAL 64

HOL-39-5.87



PLAN

NOTE:
FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.

DECK ELEVATION TABLE

PHASE 3 CONSTRUCTION

ELEVATION LOCATION		SPAN 1				SPAN 2				SPAN 3				
		CENTERLINE BRG. R.A.	0.25	0.50	0.75	CENTERLINE BRG. REAR PIER	0.25	0.50	0.75	CENTERLINE BRG. FWD. PIER	0.25	0.50	0.75	CENTERLINE BRG. F.A.
LEFT DECK EDGE	STATION	*313+89.09*	*319+93.90*	*313+98.72*	*314+03.53*	*314+08.36*	*314+14.19*	*314+20.04*	*314+25.89*	*314+31.75*	*314+36.60*	*314+41.45*	*314+46.31*	*314+51.17*
	OFFSET	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*	*-14.67*
	FINAL DECK SURFACE ELEV.	*1071.38*	*1078.04*	*1071.49*	*1071.54*	*1071.59*	*1071.66*	*1071.72*	*1071.79*	*1071.85*	*1071.91*	*1071.96*	*1072.01*	*1072.07*

PHASE 2 CONSTRUCTION

ELEVATION LOCATION		SPAN 1				SPAN 2				SPAN 3				
		CENTERLINE BRG. R.A.	0.25	0.50	0.75	CENTERLINE BRG. REAR PIER	0.25	0.50	0.75	CENTERLINE BRG. FWD. PIER	0.25	0.50	0.75	CENTERLINE BRG. F.A.
PROFILE GRADE	STATION	*313+91.43*	*313+96.31*	*314+01.20*	*314+06.09*	*314+10.99*	*314+16.91*	*314+22.85*	*314+28.79*	*314+34.74*	*314+39.66*	*314+44.59*	*314+49.52*	*314+54.46*
	OFFSET	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*
	FINAL DECK SURFACE ELEV.	*1070.97*	*1071.02*	*1071.08*	*1071.13*	*1071.18*	*1071.25*	*1071.31*	*1071.38*	*1071.44*	*1071.50*	*1071.55*	*1071.61*	*1071.66*
RIGHT DECK EDGE	STATION	*313+93.84*	*313+98.80*	*314+03.76*	*314+08.72*	*314+13.70*	*314+19.71*	*314+25.74*	*314+31.77*	*314+37.81*	*314+42.82*	*314+47.82*	*314+52.82*	*314+57.76*
	OFFSET	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*	*14.67*
	FINAL DECK SURFACE ELEV.	*1070.55*	*1070.61*	*1070.66*	*1070.72*	*1070.77*	*1070.84*	*1070.90*	*1070.97*	*1071.04*	*1071.09*	*1071.15*	*1071.20*	*1071.26*

FINAL DECK SURFACE ELEVATIONS
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229
DESIGN AGENCY
DESIGNER MVC | CHECKER RPT
REVIEWER JAC 07/27/23
PROJECT ID 108814
SUBSET 23 | TOTAL 24
SHEET P.63 | TOTAL 64

HOL-39-5.87

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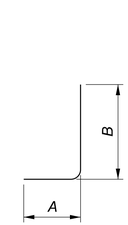
MARK	MATERIAL	NUMBER					LENGTH	TOTAL GFRP LENGTH (FT)	WEIGHT (POUNDS)	TYPE	DIMENSION						
		PHASE 2		PHASE 3		TOTAL					A	B	C	D	E	I.R.	INC.
		SUBSTRUCTURE															
		REAR	FORWARD	REAR	FORWARD												
AD501	ECSR	6				6	4' - 2"		26	STR.							
AD502	ECSR	6				6	3' - 4"		21	STR.							
SUB-TOTAL FROM SUBSTRUCTURE (ITEM 509 - EPOXY COATED STEEL REINFORCEMENT)									47								
		SUPERSTRUCTURE															
S401	ECSR	43		43		86	7' - 1"		407	12	6"	1'-1"	3'-8"	1'-2"	1'-3"		
S402	ECSR			6		6	3' - 2"		13	7	1'-3"	1'-2"	5"	8"			
S403	ECSR	6				6	2' - 4"		9	1	1'-3"	1'-2"					
S404	ECSR	6		6		12	4' - 10"		39	19	3'-8"	1'-1"	6"				
S501	ECSR	20		20		40	9' - 10"		410	STR.							
S502	ECSR	3		3		6	23' - 6"		147	STR.							
S801	ECSR	14		14		28	17' - 9"		1327	STR.							
S802	ECSR	7		7		14	12' - 7"		470	STR.							
S803	ECSR	16		16		32	17' - 9"		1517	STR.							
S804	ECSR	16		16		32	12' - 7"		1075	STR.							
S805	ECSR	14		14		28	20' - 4"		1520	21-A	2'-6"	6"	7'-6"	6"			
S806	ECSR	4		4		8	22' - 11"		490	16	22'-1"						
S807	ECSR	2		2		4	27' - 9"			STR.							
S808	ECSR	2		2		4	21' - 8"		231	16	20'-10"						
S809	ECSR	1		1		2	27' - 9"		148	STR.							
S810	ECSR	20		20		40	27' - 6"		2937	STR.							
SUB-TOTAL FROM SUPERSTRUCTURE (ITEM 509 - EPOXY COATED STEEL REINFORCEMENT)									12,446								
TOTALS CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES									12,493								

CONCRETE REINFORCEMENT NOTES:

1. *THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A NO. 5 BAR. WHEN THE SECOND LETTER IN THE DESCRIPTION IS A "D", THAT INDICATES THE BAR IS A DOWEL. FOR EXAMPLE, AD501 IS A NO. 5 DOWEL BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE NOTED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED.*
2. *ALL STEEL REINFORCEMENT SHALL BE EPOXY COATED.*
3. *"STR." IN THE COLUMN INDICATES STRAIGHT BARS.*
4. *REFER TO CMS SECTION 509.05 FOR STANDARD BEND DIMENSIONS.*
5. *ECSR = EPOXY COATED STEEL REINFORCEMENT*



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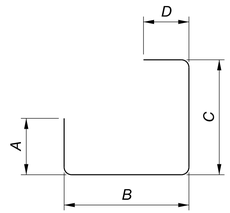

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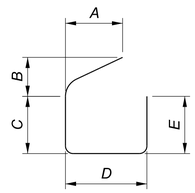

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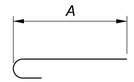

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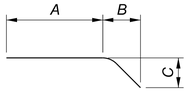

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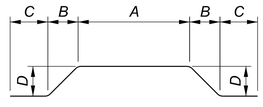

TYPE-21

CONCRETE REINFORCEMENT LIST
BRIDGE NO. HOL-39-05.940
OVER CRAB RUN

SFN 3800229

DESIGN AGENCY

DESIGNER	CHECKER
MVC	XXX

REVIEWER XXX MM-DD-YY

PROJECT ID 108814

SUBSET	TOTAL
24	24

SHEET	TOTAL
P.64	64

HOL-39-5.87

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