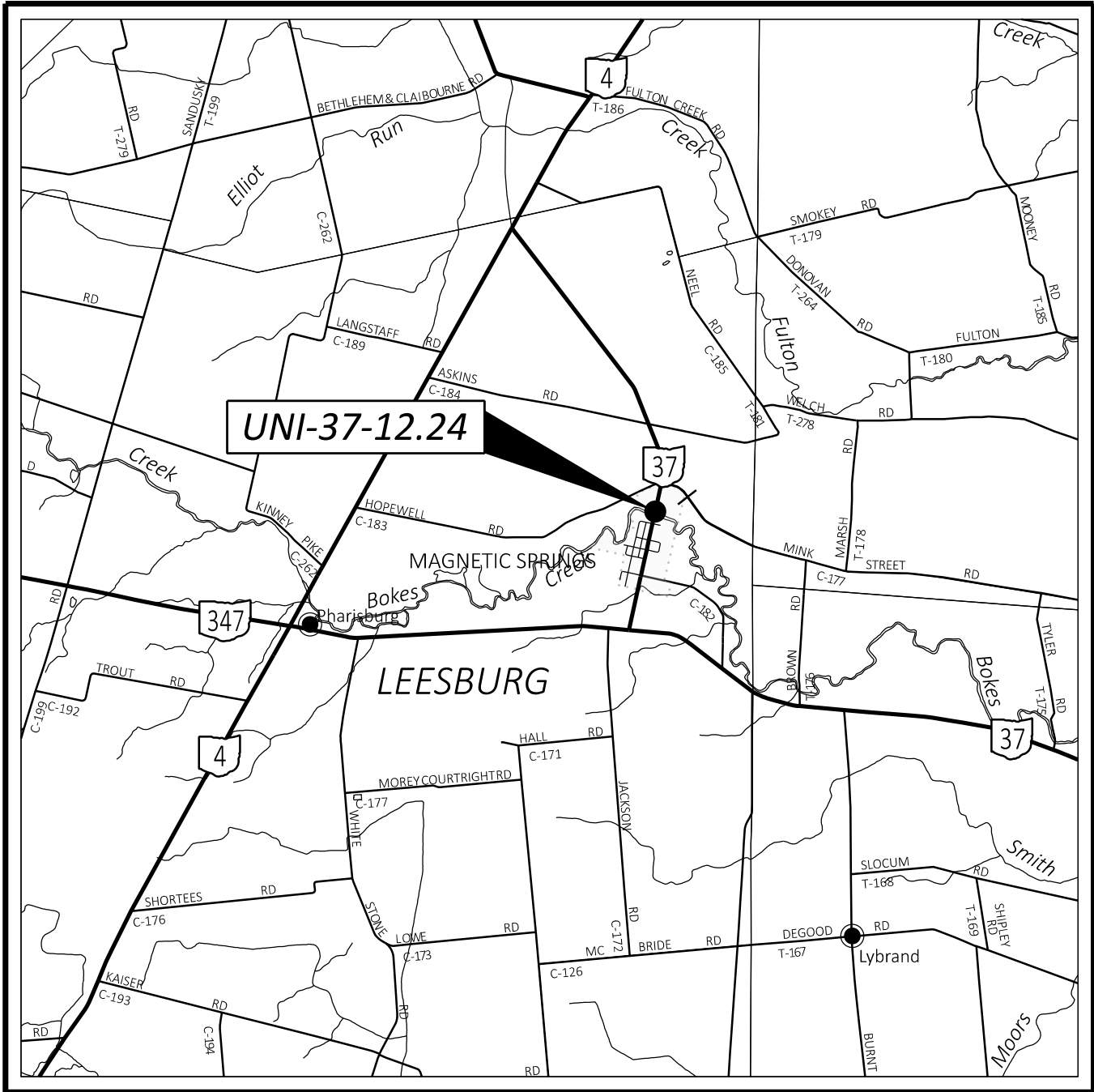


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

UNI-37-12.24
VILLAGE OF MAGNETIC SPRINGS
UNION COUNTY



LOCATION MAP

LATITUDE: 40°21'20" LONGITUDE: 83°15'43"



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

DESIGN DESIGNATION

CURRENT ADT (2025)	650
DESIGN YEAR ADT (2045)	700
DESIGN HOURLY VOLUME (2045)	100
DIRECTIONAL DISTRIBUTION	55%
TRUCKS (24 HOUR B&C)	5%
DESIGN SPEED	55 MPH (40 MPH)*
LEGAL SPEED	50 MPH (35 MPH)*
DESIGN FUNCTIONAL CLASSIFICATION:	* SPEED REDUCES AT SLM 12.25
05 MAJOR COLLECTOR (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig

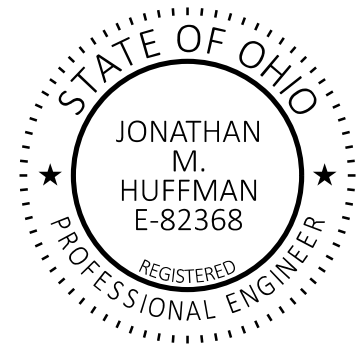

Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:


IN HOUSE DESIGN

ENGINEER'S SEAL



INDEX OF SHEETS:

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FEDERAL PROJECT NUMBER

E241 (105)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REHABILITATION OF STRUCTURE OVER BOKES CREEK IN MAGNETIC SPRINGS AT SLM 12.24 OF UNI-37. WORK TO CONSIST OF SUPERSTRUCTURE REPLACEMENT FROM NON-COMPOSITE TO COMPOSITE BOX BEAMS AND PIER RECONFIGURATION FROM 3-SPAN TO 2-SPAN. ADDITIONAL WORK TO INCLUDE FULL DEPTH PAVEMENT CORRECTION AND REPLACEMENT OF EXISTING CURB AND CURB INLETS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.7 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.2 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)

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 REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.06.


Anthony C. Turowski, P.E.
District 06 Deputy Director


Pamela Boratyn
Director, Department of Transportation

STANDARD CONSTRUCTION DRAWINGS							SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-2.2	1/15/21	AS-1-15	1/20/23	TC-61.30	7/19/24		800-2023	7/19/24	WATERWAY PERMIT 3/19/25	
BP-3.1	1/19/24	AS-2-15	7/21/23				832	7/19/24		
BP-5.1	7/15/22	DS-1-92	7/15/22				878	1/21/22		
BP-7.1	7/19/24	PSBD-2-07	7/20/18				902	7/19/19		
		TST-2-21	7/19/24							
CB-3A	7/19/24									
		HL-50.21	7/15/22							
DM-1.1	7/17/20									
DM-4.2	7/20/12	MT-101.60	4/21/23							
DM-4.4	1/15/16	MT-101.90	7/17/20							
		MT-105.10	1/17/20							
MGS-1.1	7/16/21									
MGS-2.1	1/19/18	TC-42.10	10/18/13							
MGS-3.3	7/16/21	TC-42.20	10/18/13							
MGS-4.1	1/20/17	TC-52.10	10/18/13							
MGS-4.3	1/18/13	TC-52.20	1/15/21							

DESIGN AGENCY



DESIGNER

JMB

REVIEWER

JPH 11/01/24

PROJECT ID

122277

SHEET

P.01

TOTAL

34

PID# 122277 UNI-37-12.24

NOTIFICATION OF CONSTRUCTION INITIATION:
AT LEAST FOURTEEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT d06.pio@dot.ohio.gov AND THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT d06.mot@dot.ohio.gov OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

GENERAL:
THE CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE OF OPERATIONS TO THE ENGINEER (SEE 108.02) AND RECEIVE APPROVAL IN WRITING BEFORE WORK IS STARTED ON THIS PROJECT. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CONTRACTORS EQUIPMENT - OPERATION AND STORAGE:
THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC WHERE PRACTICAL. EQUIPMENT SHALL HAVE AT LEAST ONE AMBER FLASHING LIGHT. WHEN PARKED ALONG THE HIGHWAY, THE EQUIPMENT SHALL BE LOCATED EITHER A MINIMUM OF THIRTY FEET FROM THE EDGE OF PAVEMENT OR SIX FEET BEHIND GUARDRAIL WITH A MINIMUM OF 125 FEET OF GUARDRAIL PRECEDING THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT AN APPROVED CONTRACTOR'S STORAGE AREA.

CONTINGENCY QUANTITIES:
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

REMOVAL ITEMS:
GUARDRAIL, POSTS, ASPHALT AND MISCELLANEOUS HARDWARE DESIGNATED FOR REMOVAL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE REMOVED ITEM.

WORK LIMITS:
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

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

COLUMBIA GAS OF OHIO DUBLIN ROAD EAST, COLUMBUS, OH 614.481.1057	OHIO EDISON 420 SOUTH YORK ST SPRINGFIELD, OH 45505 937.327.1272
TIME WARNER CABLE 3760 INTERCHANGE DR COLUMBUS, OH 43204 614.255.6349	CENTURYLINK 441 WEST BROAD ST PATASKALA, OH 43062 740.927.8282

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.

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

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

PROJECT CONTROL

POSITIONING METHOD: V.R.S.
MONUMENT TYPE: IRON PIN AND MAG NAIL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: TRANSVERSE MERCATOR
COORDINATE SYSTEM: UNION COUNTY LDP

UNITS ARE IN U.S. SURVEY FEET.

LABEL	EASTING	NORTHING	STATION	OFFSET	ELEV.	DESCRIPTION
BM#1	188697.579	494092.881	645+73.91	16.04' LT	935.693	IRON PIN
BM#2	188573.062	493585.033	650+96.56	0.00'	934.791	MON BOX
BM#3	188708.697	494222.296	644+45.03	0.09' RT	935.957	MAG NAIL

ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN:
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, AS PER PLAN. THIS SHALL ALSO INCLUDE DEBRIS REMOVAL OF BUT NOT LIMITED TO LOGS, TRUNKS AND TREE BRANCHES. THE CONTRACTOR SHALL REVIEW THE SITE TO ACCURATELY BID THIS ITEM. 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, AS PER PLAN.

ENDANGERED BAT HABITAT REMOVAL:
THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UN THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSED OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL
WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 202 - PAVEMENT REMOVED, AS PER PLAN (15")
PAVEMENT REMOVED, ASPHALT WILL BE AN AVERAGE OF 15.00" BUT MAY VARY IN DEPTH TO MATCH THE EXISTING ASPHALT SUBGRADE AS DETAILED IN THE TYPICAL SECTIONS. PAVEMENT REMOVED WILL INCLUDE THE REMOVAL OF EXISTING AGGREGATE BASE COURSE(S) OR MACADAM AS DETAILED IN THE TYPICAL SECTIONS. ITEM 202 - PAVEMENT REMOVED, ASPHALT INCLUDES SAWCUTTING AS DETAILED IN THE TYPICAL SECTIONS. IT IS THE INTENT OF THE SAWCUT TO PROVIDE A SMOOTH JOINT AT THE REMOVAL. ANY OTHER METHOD THAT THE CONTRACTOR PROPOSES MAY BE USED IF APPROVED BY THE ENGINEER.

ITEM 202 – WALK REMOVED, AS PER PLAN:
THIS ITEM HAS BEEN PROVIDED AND SHALL BE USED IN CONJUNCTION WITH THE CONSTRUCTION OF THE PROPOSED CURB RAMPS. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND HARDWARE NECESSARY TO REMOVE EXISTING SIDEWALK (INCLUDING ANY EXISTING CURB RAMPS). SPECIFIC LOCATIONS AND LIMITS OF THIS WORK CAN BE FOUND ON PLAN SHEET P.09.

ITEM 202 – GUARDRAIL REMOVED, AS PER PLAN:
ITEM 202 – ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN:
IN ADDITION TO THE REQUIREMENTS OF ITEM 202, REMOVAL OF SPECIFIED GUARDRAIL ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO ANY ATTACHED POSTS, SIGNS AND DELINEATORS (NOT OTHERWISE SPECIFIED). THIS REMOVAL WILL INCLUDE ALL POSTS, ANCHORS AND HARDWARE UNDER GROUND.

THE CONTRACTOR SHALL EXPECT TO REMOVE ALL CONCRETE FOUNDATIONS COMPLETELY AT ALL LOCATIONS UNLESS OTHERWISE INSTRUCTED OR APPROVED BY THE ENGINEER. REMOVING EXISTING CONCRETE FOUNDATION TO A MINIMUM OF 1 FOOT BELOW THE GRADE OF THE SURROUNDING AREA MAY ONLY BE PERMITTED IF THE EXISTING CONCRETE DOES NOT FALL WITHIN 6 FEET OF THE PROPOSED AS TO NOT COMPROMISE THE PERFORMANCE OF THE PROPOSED GUARDRAIL SYSTEM(S).

EXISTING TYPE T ANCHOR ASSEMBLIES (NOT IDENTIFIED IN THE PLANS) ENCOUNTERED WITHIN REMOVAL LIMITS SHALL BE REMOVED UNDER THE QUANTITIES PROVIDED FOR ITEM 202 – GUARDRAIL REMOVED, AS PER PLAN, AND BE PAID FOR BY “FEET”.

ALL HOLES AND VOIDS REMAINING AFTER REMOVAL OF GUARDRAIL POSTS AND FOUNDATIONS SHALL BE FILLED WITH GRANULAR MATERIAL CONFORMING TO CMS 203.02R. FILL MATERIAL CONTAINING SOD SHALL NOT BE USED. ALL FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. MATERIAL PLACED IN HOLES SHALL BE THOROUGHLY COMPACTED AND LEVELED OFF AS DIRECTED BY THE ENGINEER. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPLICABLE GUARDRAIL REMOVAL ITEM.

NO HAZARD SHALL BE LEFT UNPROTECTED EXCEPT FOR THE ACTUAL TIME NECESSARY TO REMOVE THE EXISTING GUARDRAIL, PREPARE THE SITE, AND INSTALL NEW GUARDRAIL IN A CONTINUOUS OPERATION. GUARDRAIL DESIGNATED FOR REMOVAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF.

ITEM 203 - EMBANKMENT, AS PER PLAN:
QUANTITIES FOR ITEM 203 EMBANKMENT, AS PER PLAN HAVE BEEN PROVIDED TO BUILD UP FORESLOPES AND ENSURE PROPER GRADING FOR THE PROPOSED WINGWALLS, MGS GUARDRAIL, AND BRIDGE TERMINAL ASSEMBLIES. THIS ITEM OF WORK INCLUDES ANY CLEARING AND GRUBBING NECESSARY TO PLACE THE EMBANKMENT AT THE LOCATIONS SPECIFIED OR DIRECTED PER DETAIL ON P.02.

THE FOLLOWING QUANTITIY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 203 - EMBANKMENT, AS PER PLAN = 15 CU. YD.

ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN:
IN ADDITION TO ITEM 606 - MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, 'POST #1' PER SCD MGS-3.3 SHALL BE CONCRETE ENCASED TO COINCIDE WITH 'POST A' OF SCD MGS-4.3 TO TRANSITION BETWEEN TST-2 BTA AND ANCHOR ASSEMBLY, MGS TYPE A.

ITEM 608 - 4" CONCRETE WALK, AS PER PLAN:
THIS ITEM SHALL BE USED TO PROVIDE ADEQUATE GRADE TRANSITIONS BETWEEN THE EXISTING SIDE WALK AND THE PROPOSED CURB RAMPS. THIS ITEM SHALL INCLUDE THE COST OF FURNISHING ALL MATERIALS, GRADING, FORMING AND FINISHING OF THE SIDEWALK AT THE PROPOSED GRADE OF THE TRANSITION. SPECIFIC LOCATIONS AND LIMITS OF THIS WORK CAN BE FOUND ON PLAN SHEET P.09.

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

659 - TOPSOIL	=	200 CU. YD.
659 - SEEDING AND MULCHING	=	1,112 SQ. YD.
659 - REPAIR SEEDING AND MULCHING	=	90 SQ. YD.
659 - INTER-SEEDING	=	90 SQ. YD.
659 - COMMERCIAL FERTILIZER	=	0.24 TON
659 - LIME	=	0.37 ACRES
659 - WATER	=	10 M. GAL.
670 - SLOPE EROSION PROTECTION	=	1,794 SQ. YD.

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.

REVIEW OF DRAINAGE FACILITIES:
BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE OF THE PROJECT BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL INSPECT ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING ALONG WITH PHOTOS BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED, AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER SHALL CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS.

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

DESIGN AGENCY



DESIGNER

JMB

REVIEWER

JPH 11/01/24

PROJECT ID

122277

SHEET

P.03

TOTAL

34

ITEM 617 - WATER:
THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY:

ITEM 617 - WATER = 1 M. GAL.

ITEM 304 – AGGREGATE BASE, AS PER PLAN:
THIS ITEM SHALL CONFORM TO ITEM 304 OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION NAND MATERIAL SPECIFICATIONS. THE QUANTITY PROVIDED IN THE PAVEMENT CALCULATIONS HAS BEE ESTIMATED USING A 6" THICKNESS.

THE SUBGRADES OF THE EXISTING ABUTTING PAVEMENT AND PROPOSED PAVEMENT SHOULD MEET AT THE SAME ELEVATION IF NECESSARY, THE AGGREGATE BASE UNDER REPLACEMENT SHOULD BE THICKENED SO THE SUBGRADE ELEVATIONS WILL MATCH. IF THE AGGREGATE BASE UNDER THE REPLACEMENT IS THICKER THAN THE EXISTING AGGREGATE BASE, THE PROPOSED SUBGRADE SHOULD BE SLOPED AWAY FROM THE EXISTING AND DRAINAGE PROVIDED PER PDM 504.7.

IF THE ACTUAL QUANTITY USED IS LESS THAN THE AMOUNT BID, THE ENGINEER WILL DETERMINE THE CU. YDS. FOR NON-PAYMENT BY TAKING THE DIFFERENCE IN DEPTHS AND MULTIPLYING IT BY THE AREA OF PAVEMENT.

FARM DRAINS
PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE (RIGHT OF WAY)(CONSTRUCTION) LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

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

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

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

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

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

ITEM 611 - 4" CONDUIT, TYPE C = 20 FT
ITEM 611 - 6" CONDUIT, TYPE C = 20 FT.
ITEM 611 - 8" CONDUIT, TYPE C = 20 FT.

ENVIRONMENTAL COMMITMENTS:
1) ECOLOGICAL STUDIES IDENTIFIED SWALLOW NESTS ON THE UNI-37-12.24 (SFN 8001936) BRIDGE. IF CONSTRUCTION ACTIVITIES WILL OCCUR BETWEEN MAY 1 AND AUGUST 31 ON THIS STRUCTURE, INSPECT THE STRUCTURE FOR EVIDENCE OF AN ACTIVE BIRD NEST CONTAINING AN EGG OR CHICK PRIOR TO STARTING WORK. PROVIDE WRITTEN CONFIRMATION OF THE INSPECTION, INCLUDING A STATEMENT WHETHER AN ACTIVE NEST WAS FOUND, TO THE ENGINEER. IF NO NESTS ARE ENCOUNTERED DURING THE INSPECTION, OR IF ONLY INACTIVE NESTS THAT DO NOT CONTAIN AN EGG OR CHICK ARE ENCOUNTERED, PROCEED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR MAY REMOVE AND DESTROY INACTIVE NESTS. THE CONTRACTOR MAY INSTALL EXCLUSION MEASURES BETWEEN AUGUST 31 AND MAY 1 TO PREVENT MIGRATORY BIRDS FROM NESTING ON THE STRUCTURE. PROJECTS PERFORMING CONSTRUCTION ACTIVITIES BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 30 DO NOT REQUIRE AN INSPECTION FOR MIGRATORY BIRDS OR AVOIDANCE MEASURES. IF AN ACTIVE NEST CONTAINING AN EGG OR CHICK IS ENCOUNTERED, AVOID IMPACTS TO THE NEST UNTIL ALL DEVELOPING BIRDS ARE ABLE TO INDEPENDENTLY FLY FROM THE NEST. IF AN ACTIVE NEST CONTAINING AN EGG OR CHICK CANNOT BE AVOIDED, CONTACT THE ENGINEER AT LEAST 4 WEEKS PRIOR DESTROYING AN ACTIVE NEST SO THE CONTRACTOR CAN OBTAIN A DEPREDATION PERMIT FROM THE U.S. FISH AND WILDLIFE SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND COMPLETING ALL TASKS RELATED TO OBTAINING THE DEPREDATION PERMIT EXCEPT FOR DIRECT COORDINATION WITH THE MIGRATORY BIRD REGIONAL PERMIT OFFICE. DO NOT PROCEED WITH ACTIVITIES THAT WILL IMPACT AN ACTIVE NEST UNTIL THE ENGINEER CONFIRMS THE DEPREDATION PERMIT IS RECEIVED.

2) ODOT WILL OBTAIN WATERWAY PERMITS PRIOR TO CONSTRUCTION AND WILL PROVIDE SPECIAL PROVISIONS. ALL WATERWAY PERMIT SPECIAL PROVISIONS WILL BE ADHERED TO DURING CONSTRUCTION.

3) ANY AND ALL CONSTRUCTION DEBRIS, EARTHEN DEBRIS, EXCESS ASPHALT OR CONCRETE, WOOD DEBRIS FROM CLEARING, EXCESS FILL MATERIAL, AND TRASH SHOULD BE DISPOSED OF AT AN APPROVED UPLAND SITE OR LAND FILL ABOVE FEMA 100-YEAR FLOOD ELEVATIONS.

4) ODOT WILL ENSURE IMPACTS TO THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT AND THE STATE LISTED AND PROTECTED LITTLE BROWN BAT AND TRICOLORED BAT ARE AVOIDED AND MINIMIZED. NO TREE REMOVAL IS ALLOWED FROM APRIL 1 THROUGH SEPTEMBER 30. PERFORM ALL NECESSARY TREE REMOVAL FROM OCTOBER 1 THROUGH MARCH 31. DEMARCATRE CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

CONSTRUCTION NOISE
ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 PM AND 7 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ITEM 832 - STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN
PROVIDE A WRITTEN EROSION CONTROL PLAN FOR ACCEPTANCE BY THE ENGINEER THAT IDENTIFIES THE LOCATION, EXTENT AND PURPOSE FOR THE BMP PROPOSED PRIOR TO ANY EARTH DISTURBING ACTIVITY. THE PLAN SHALL INCLUDE STABILIZATION MEASURES BEFORE TEMPORARY DIVERSION IS OPEN FOR BYPASS AND INCLUDE LOCATION AND MEASURES FOR DEWATERING THE WORK ZONE AREA.

ITEM SPECIAL - WATER FILLER BLADDER:
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLATION AND REMOVAL OF WATER FILLED BLADDERS IN ACCORDANCE WITH THE PLAN DETAILS.

WATER FILLED BLADDERS SHALL BE INSTALLED PER MANUFACTURER GUIDELINES AND MAINTAIN A MINIMUM TOP OF BLADDER ELEVATION OF 926.20 FT. USE ONE OF THE MANUFACTURERS BELOW, OR AN APPROVED EQUAL.

AQUA DAM, INC. P.O. BOX 144 121 MAIN ST. STE A SCOTIA, CA 95565 https://www.aquadam.net/	DAM-IT DAMS INC. 546 E REID ROAD GRAND BLANC, MI 48439 https://damitdams.com/
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WATER FILLED BLADDERS ARE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - WATER FILLED BLADDER. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR AND ALL INCIDENTALS REQUIRED TO INSTALL AND REMOVE BLADDERS FOR PURPOSES OF DEWATERING AND DEMOLITION OF STRUCTURE (UNI-37-1224).

ITEM 611 - 72" CONDUIT, TYPE A, AS PER PLAN, 706.02
IN ADDITION TO THE REQUIREMENTS OF ITEM 611, WORK FOR THIS ITEM INCLUDES THE REMOVAL OF THE 72 INCH CONDUIT AFTER THE BRIDGE DEMOLITION PHASE AND TRANSPORTING TO DISTRICT 6 AND FINAL BACKFILL AFTER THE CONDUIT IS REMOVED. ALL BACKFILL SHALL MEET THE REQUIREMENTS SPECIFIED IN ITEM 203. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE DISTRICT ROADWAY SERVICE ENGINEER, SAM MORRISON AT 740-833-8023, PRIOR TO TRANSPORT. A PERFORMANCE INSPECTION PER 611.12 IS WAIVED AND THE CONDUIT TO BE SALVAGED SHALL BE FREE OF DEFECTS AND CLEANED BEFORE TRANSPORTING.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
PERMANENT SEEDING IN ALL DISTURBED WETLAND AREAS AS QUANTIFIED SHALL BE CONDUCTED AS PER ITEM 659 - SEEDING AND MULCHING. SEED MIX MUST BE AN APPROVED OHIO NATIVE WETLAND SEED MIX (NO CULTIVARS). THE CONTRACTOR SHALL SUBMIT THE VENDOR'S CERTIFICATE FOR EACH SEED MIX AND THE SHIPPING LIST TO THE ENGINEER, PRIOR TO PLANTING.

SEED SOURCES:
OHIO PRAIRIE NURSERY (WETLAND NATIVE SEED MIX)
P.O. BOX 174
HIRAM, OH 44234
866-569-3380
INFO@OPNSEED.COM

SPENCE RESTORATION NUSERY (EMERGENT WETLAND MIX)
2220 EAST FUSON ROAD
MUNCIE, IN 47302
765-286-7154
SALES@SPENCENURSERY.COM

ITEM 661 - PLANTING, MISC.: 1-GALLON SEEDLINGS
THE FOLLOWING 1-GALLON SEEDLNGS SHALL BE INSTALLED IN WETLAND A AND WETLAND B FOR WETLAND RESTORATION. 1-GALLON POTS ARE TO BE PLANTED NO LESS THAN 6FT FROM EACH OTHER. REVEGETATED WETLAND AREAS SHALL NOT BE SEEDED AND PLANTED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED AND APPROVED BY THE ENGINEER. ALL PLANT MATERIAL MUST BE ALIVE AND IN A HEALTHY, VIGOROUS CONDITION, AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. PAYMENT SHALL BE PER EACH AND INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

DESCRIPTION	SIZE	TOTAL	UNIT
CEPHALANTHUS OCCIDENTALIS-BUTTONBUSH	1-GAL	10	EACH
SALIX NIGRA- BLACK WILLOW	1-GAL	10	EACH

DESCRIPTION	SIZE	TOTAL	UNIT
ACER SACCHARINUM-SILVER MAPLE	1-GAL	10	EACH
QUERCUS BICOLOR-SWAMP WHITE OAK	1-GAL	10	EACH

ASBESTOS NOTIFICATION
AN ASBESTOS SURVEY FOR SFN 8001936 SR-37 BRIDGE OVER BOKES CREEK SCHEDULED FOR DEMOLITION 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.

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.



SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
						P.03	P.04	P.05	P.08	P.10	P.11	P.12A	01/STR/10						
						LS							LS	201	11001	LS		ROADWAY	
									414				414	202	23001	414	SY	CLEARING AND GRUBBING, AS PER PLAN	P.03
										256			256	202	30001	256	SF	PAVEMENT REMOVED, AS PER PLAN, 15"	P.03
									95				95	202	32000	95	FT	WALK REMOVED, AS PER PLAN	P.03
									160				160	202	35100	160	FT	CURB REMOVED	
									200				200	202	38001	200	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	P.03
									4				4	202	42001	4	EACH	GUARDRAIL REMOVED, AS PER PLAN	P.03
									2				2	202	58100	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	P.03
												213	213	203	10000	213	CY	CATCH BASIN REMOVED	
												213	213	203	20000	213	CY	EXCAVATION	
						15			44				59	203	20001	59	CY	EMBANKMENT	
									710				710	204	10000	710	SY	EMBANKMENT, AS PER PLAN	P.03
									3				3	209	60200	3	STA	SUBGRADE COMPACTION	
									150				150	606	15100	150	FT	LINEAR GRADING	
									2				2	606	25550	2	EACH	GUARDRAIL, TYPE MGS WITH LONG POSTS	
									4				4	606	34601	4	EACH	ANCHOR ASSEMBLY, MGS TYPE A	P.03
										98			98	608	10001	98	SF	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2, AS PER PLAN	P.03
										101			101	608	52000	101	SF	4" CONCRETE WALK, AS PER PLAN	P.03
																		CURB RAMP	
									6				6	601	32100	6	CY	EROSION CONTROL	
						0.24							0.24	654	11000	0.24	TON	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER, 30"	
						200							200	659	00300	200	CY	COMMERCIAL FERTILIZER	
						1,112							1,112	659	10000	1,112	SY	TOPSOIL	
							682						682	659	10001	682	SY	SEEDING AND MULCHING	
						90							90	659	14000	90	SY	SEEDING AND MULCHING, AS PER PLAN	P.04
						90							90	659	15000	90	SY	REPAIR SEEDING AND MULCHING	
						0.37							0.37	659	31000	0.37	ACRE	INTER-SEEDING	
						10							10	659	35000	10	MGAL	LIME	
						1,794							1,794	670	00500	1,794	SY	WATER	
							LS						LS	832	15001	LS		SLOPE EROSION PROTECTION	
													10,000	832	30000	10,000	EACH	STORM WATER POLLUTION PREVENTION PLAN, AS PER PLAN	P.04
																		EROSION CONTROL	
									24				24	605	31100	24	FT	DRAINAGE	
							20						20	611	00200	20	FT	AGGREGATE DRAINS	
							20						20	611	01100	20	FT	4" CONDUIT, TYPE C	
							20						20	611	02000	20	FT	6" CONDUIT, TYPE C	
													162	611	04400	162	FT	8" CONDUIT, TYPE C	
									162				105	611	26001	105	FT	12" CONDUIT, TYPE B, 706.02	
													2	611	98180	2	EACH	72" CONDUIT, TYPE A, AS PER PLAN, 706.02	P.04
												LS	LS	SPECIAL	69098400	LS		CATCH BASIN, NO. 3A	
																		WATER FILLED BLADDER	P.04
									59				59	301	56000	59	CY	PAVEMENT	
									15				15	304	20000	15	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
									119				119	304	20001	119	CY	AGGREGATE BASE	
									47				47	407	20000	47	GAL	AGGREGATE BASE, AS PER PLAN	P.04
									36				36	441	70000	36	CY	NON-TRACKING TACK COAT	
									60				60	609	26000	60	FT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
						1							1	617	25000	1	MGAL	CURB, TYPE 6	
																		WATER	
									8				8	626	00110	8	EACH	TRAFFIC CONTROL	
											5		5	630	85100	5	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
											0.13		0.13	642	00104	0.13	MILE	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
											0.13		0.13	642	00104	0.13	MILE	EDGE LINE, 6", TYPE 1	
								0.25			0.07		0.32	642	00300	0.32	MILE	CENTER LINE, TYPE 1	
																		LANDSCAPING	
							10						10	661	99900	10	EACH	PLANTING, MISC.: ACER SACCHARINUM- SILVER MAPLE	P.04
							10						10	661	99900	10	EACH	PLANTING, MISC.: CEPHALANTHUS OCCIDENTALIS- BUTTONBUSH	P.04
							10						10	661	99900	10	EACH	PLANTING, MISC.: QUERCUS BICOLOR- SWAMP WHITE OAK	P.04
							10						10	661	99900	10	EACH	PLANTING, MISC.: SALIX NIGRA- BLACK WILLOW	P.04
																		STRUCTURES OVER 20 FOOT SPAN	
																		FOR UNI-37-1224 ESTIMATED QUANTITIES	P.12
								LS					LS	614	12420	LS		MAINTENANCE OF TRAFFIC	
							10						10	614	13000	10	CY	DETOUR SIGNING	
							1						1	616	10000	1	MGAL	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
								LS					LS	614	11000	LS		WATER	
													LS	623	10000	LS		INCIDENTALS	
													LS	624	10000	LS		MAINTAINING TRAFFIC	
													LS	878	25000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
																		MOBILIZATION	
																		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

JMB

REVIEWER

JPH 11/01/24

PROJECT ID

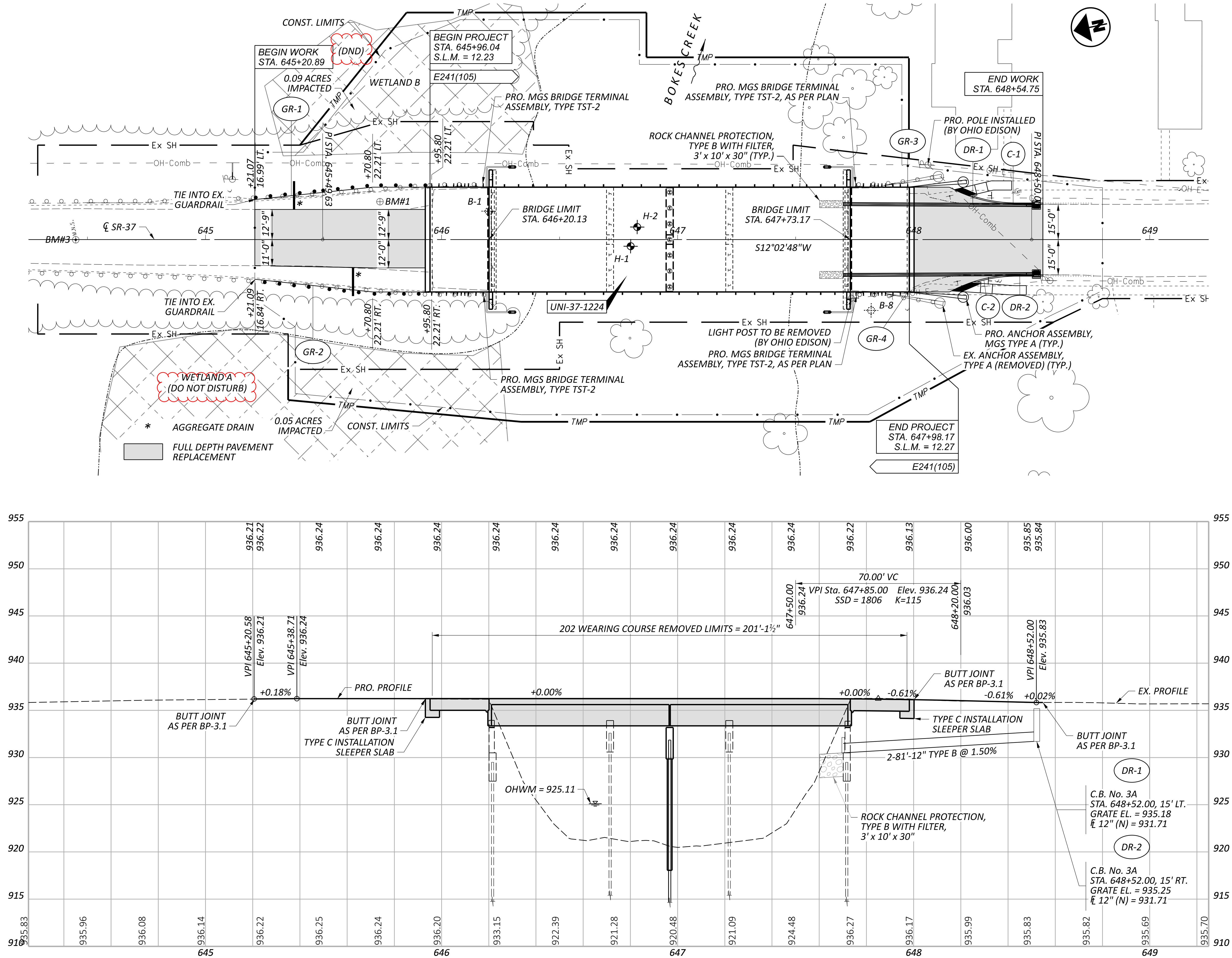
122277

SHEET

P.07

TOTAL

34

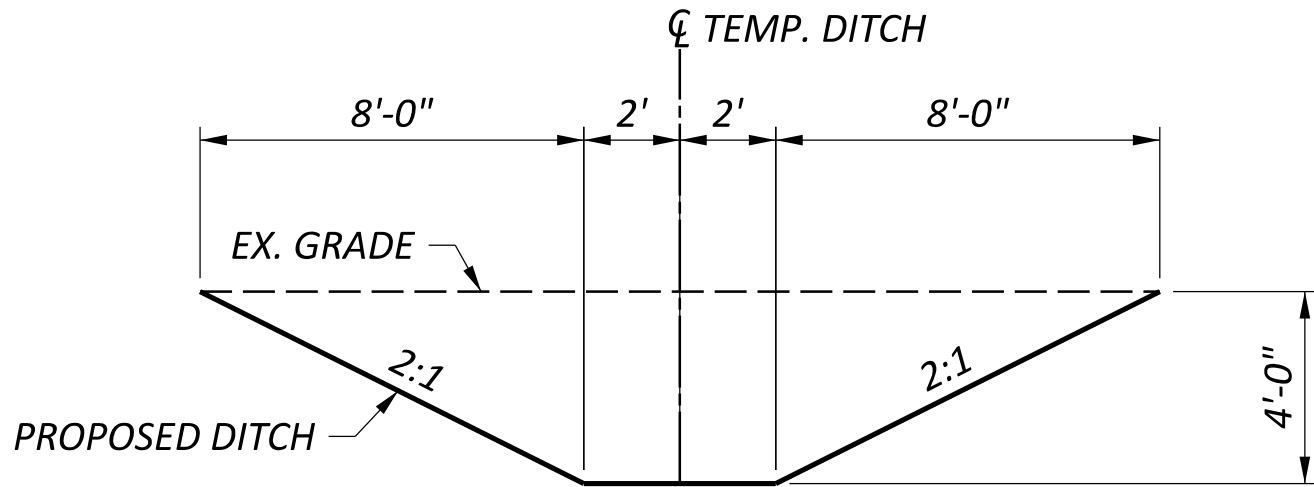


SEQUENCE OF REMOVAL

1. INSTALL TEMPORARY 72" CULVERT AND CUT TEMPORARY DITCH TO ALLOW CREEK TO FLOW AROUND STRUCTURE (UNI-37-1224)
2. INSTALL WATER FILLED BLADDERS TO DIVERT CREEK THROUGH 72" CULVERT.
3. REMOVE STRUCTURE AND SUBSEQUENT DEBRIS FROM THE CREEK BED. ALL DEBRIS (INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT AND STEEL) MUST BE CONTAINED WITHIN THE DEWATERED AREA AND REMOVED PRIOR TO REMOVAL OF WATER FILLED BLADDERS.
4. REMOVE WATER FILLED BLADDERS.
5. REMOVE TEMPORARY 72" CULVERT AND RESTORE TEMPORARY DITCH.

TEMPORARY DITCH

TEMPORARY DITCH SHALL BE CUT TO DISCHARGE CULVERT BACK TO CREEK. UPON REMOVAL OF TEMPORARY 72" CULVERT, THE DITCH SHALL BE RETURNED TO ORIGINAL GRADE USING BORROW TO FILL.



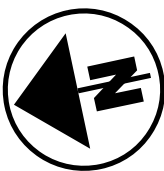
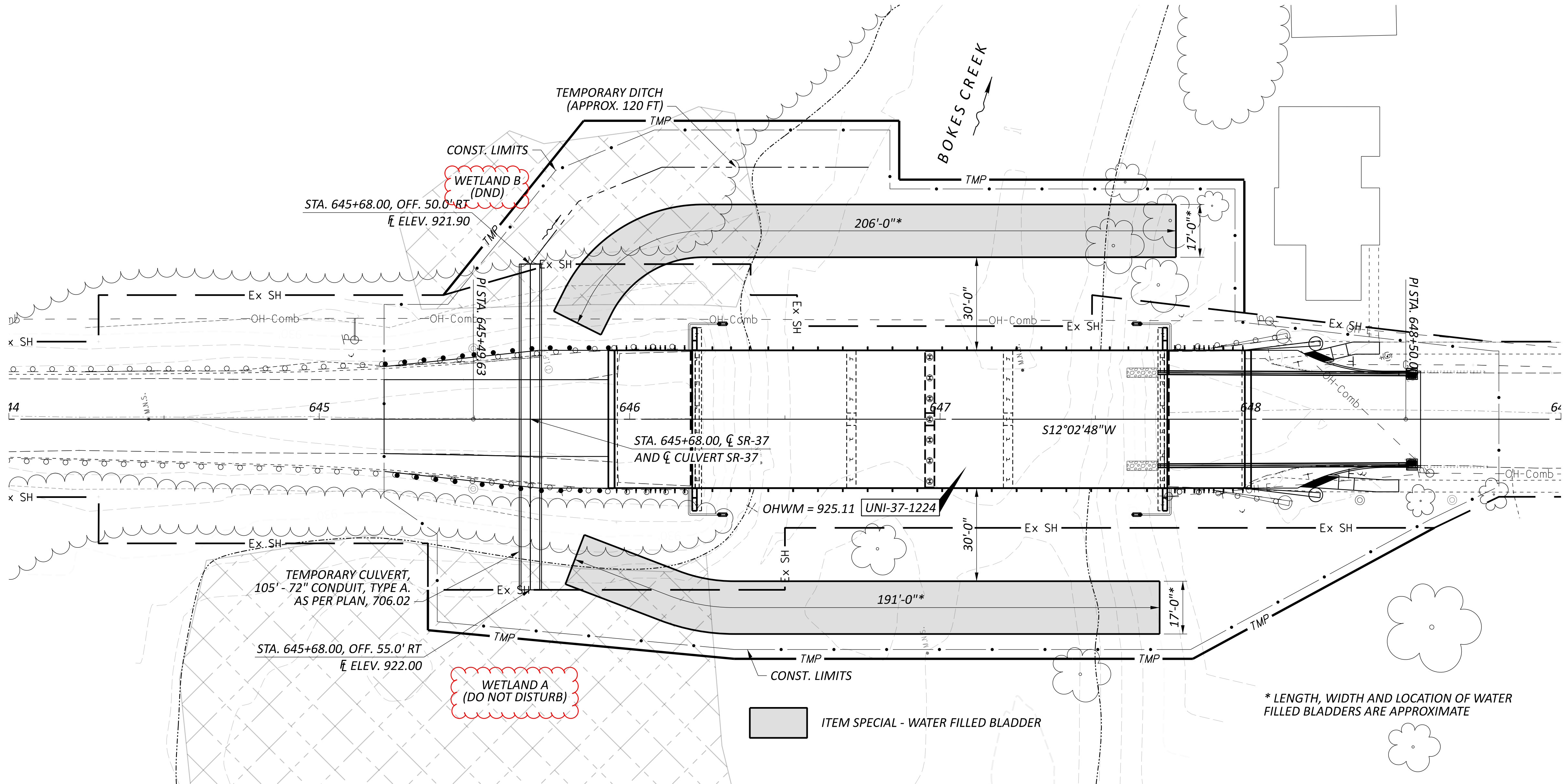
TEMPORARY DITCH TYPICAL

ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
203	213	CY	EXCAVATION
203	213	CY	EMBANKMENT
611	105	FT	72" CONDUIT, TYPE A, AS PER PLAN, 706.02
690	LS	LS	WATER FILLED BLADDER

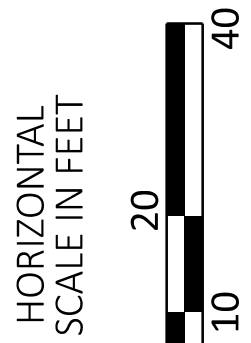
QUANTITIES CARRIED TO GENERAL SUMMARY

NOTES

SEE SHEET P.04 FOR MORE INFORMATION ABOUT ITEM SPECIAL - WATER FILLED BLADDER AND ITEM 611 - 72" CONDUIT, TYPE A, AS PER PLAN, 706.02.



SUPPLEMENTAL DEMOLITION PLAN
BRIDGE NO. UNI-37-12.24
OVER BOKES CREEK



SFN
8001937
DESIGN AGENCY



DESIGNER
JMB
CHECKER
JRA

REVIEWER
JRA
02/20/25

PROJECT ID
122277

SUBSET TOTAL
1A 19


SHEET TOTAL
P.12A 34

ESTIMATED QUANTITIES (UNI-37-1224 SFN: 8001937)									
ITEM	EXTENSION	TOTAL 01/STR/10	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	SEE SHEET
202	11200	LS	LS	PORTIONS OF STRUCTURE REMOVED (SUPERSTRUCTURE, PIERS)			LS		
202	11301	14	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	14				2
202	22900	244	SY	APPROACH SLAB REMOVED				244	
202	23500	983	SY	WEARING COURSE REMOVED			983		
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING				LS	
503	21300	LS	LS	UNCLASSIFIED EXCAVATION				LS	
505	11100	LS	LS	PILE DRIVING EQUIPMENT MOBILIZATION		LS			
507	00200	315	FT	STEEL PILES HP12X53, FURNISHED		315			
507	00250	280	FT	STEEL PILES HP12X53, DRIVEN		280			
507	93300	7	EACH	STEEL POINTS OR SHOES		7			
509	26000	29481	LB	GALVANIZED STEEL REINFORCEMENT	1812	2879	24790		
SPECIAL	50771200	91	FT	PILE ENCASEMENT		91			2
510	10000	168	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	168				
511	31612	154	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE			154		
511	42510	18	CY	CLASS QC1 CONCRETE, PIER CAP		18			
511	45710	10	CY	CLASS QC1 CONCRETE, ABUTMENT	10				
512	10050	196	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	31	54	111		
512	33300	12	SY	TYPE A WATERPROOFING	12				
515	12070	22	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB27-48 (75'-3" LENGTH)			22		
516	10000	89	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL			89		
516	10010	89	FT	ARMORLESS PREFORMED JOINT SEAL				89	
516	13600	18	SF	1" PREFORMED EXPANSION JOINT FILLER	18				
516	13900	89	SF	2" PREFORMED EXPANSION JOINT FILLER	89				
516	14020	95	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	95				
516	31010	89	FT	2" DEEP JOINT SEALER				89	
516	43200	88	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (12" X 7" X 2.0434")	44	44			
517	70100	312	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			312		
518	21200	56	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	56				
SPECIAL	51822300	360	FT	STEEL DRIP STRIP			360		2
518	40000	118	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	118				
518	40012	64	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE	64				
526	25001	247	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN				247	2
526	90031	89	FT	TYPE C INSTALLATION, AS PER PLAN				89	2
611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET				4	
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1	

ESTIMATED QUANTITIES
BRIDGE NO. UNI-37-12.24
OVER BOKES CREEK

SFN
8001937

DESIGN AGENCY



DESIGNER
JMB

CHECKER
JMH

REVIEWER
JPH 11/01/24

PROJECT ID
122277

SUBSET
3

TOTAL
19

SHEET
P.14

TOTAL
34