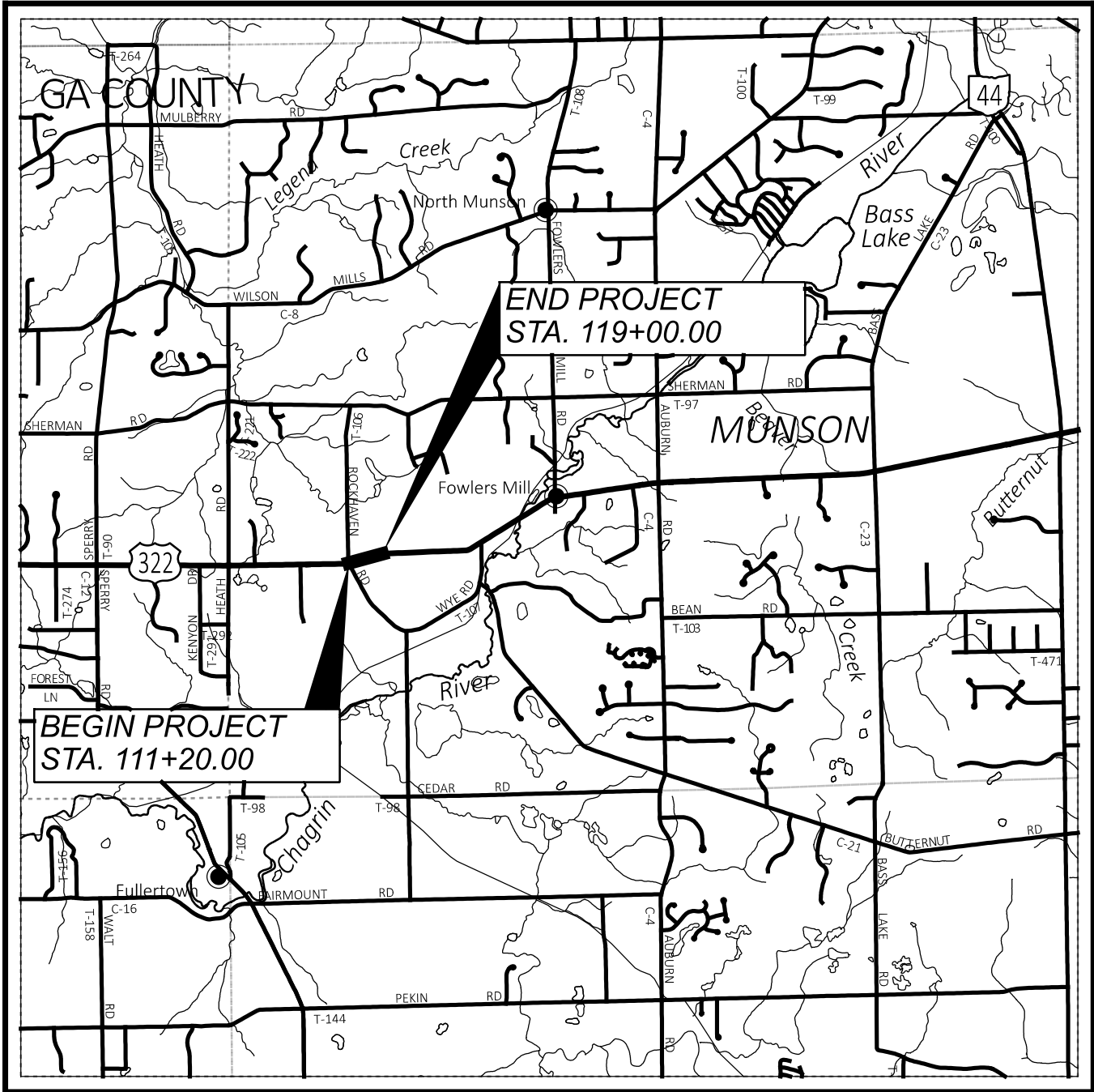




LOCATION MAP

LATITUDE: 41 °31'19.75" LONGITUDE: -81 °16'44.27"



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

DESIGN DESIGNATION

|                                   |        |
|-----------------------------------|--------|
| CURRENT ADT (2023)                | 8882   |
| DESIGN YEAR ADT (2035)            | N/A    |
| DESIGN HOURLY VOLUME (2035)       | N/A    |
| DIRECTIONAL DISTRIBUTION          | 61%    |
| TRUCKS (24 HOUR B&C)              | 3%     |
| DESIGN SPEED                      | 45 MPH |
| LEGAL SPEED                       | 45 MPH |
| DESIGN FUNCTIONAL CLASSIFICATION: |        |
| 04 MINOR ARTERIAL                 |        |
| 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:



STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

GEA-322-05.76

MUNSON TOWNSHIP

GEAUGA COUNTY

INDEX OF SHEETS:

TITLE SHEET  
TYPICAL SECTIONS  
GENERAL NOTES  
MAINTENANCE OF TRAFFIC  
GENERAL SUMMARY  
SUBSUMMARIES  
PLAN  
CROSS-SECTIONS  
STORM SEWER PROFILES  
GEOTECHNICAL PROFILE - LANDSLIDE  
RIGHT OF WAY PLANS

P.01  
P.02-P.03  
P.04-P.05  
P.06-P.10  
P.11-P.12  
P.13  
P.14  
P.15-P.23  
P.24  
P.25-P.31

SHEETS P.09 & P.10 NOT USED



| STANDARD CONSTRUCTION DRAWINGS |         |           |          |  |  | SUPPLEMENTAL SPECIFICATIONS | SPECIAL PROVISIONS |
|--------------------------------|---------|-----------|----------|--|--|-----------------------------|--------------------|
| BP-2.1                         | 1/21/22 | HW-2.1    | 7/15/22  |  |  | 800-2023                    | 7/18/25            |
| BP-2.2                         | 1/15/21 | HW-2.2    | 7/20/18  |  |  | 807                         | 1/17/25            |
| BP-5.1                         | 7/18/25 |           |          |  |  | 832                         | 7/18/25            |
| BP-8.2                         | 1/18/19 | MT-101.60 | 1/17/25  |  |  | 850                         | 7/21/23            |
| CB-3A                          | 7/19/24 |           |          |  |  |                             |                    |
| DM-1.2                         | 1/17/25 | RM-1.1    | 1/20/23  |  |  |                             |                    |
|                                |         | TC-42.20  | 10/18/13 |  |  |                             |                    |
| MGS-2.1                        | 7/18/25 | TC-65.10  | 1/17/14  |  |  |                             |                    |
| MGS-5.3                        | 7/15/16 | TC-65.11  | 1/17/25  |  |  |                             |                    |
| MH-3                           | 7/19/24 |           |          |  |  |                             |                    |
|                                |         |           |          |  |  |                             |                    |

FEDERAL PROJECT NUMBER

E250747

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

SLOPE REPAIR ADJACENT TO U.S. 322. WORK TO INCLUDE CORRECTING DRAINAGE, CURB INSTALLANTION AND SLOPE REPAIR.

EARTH DISTURBED AREAS

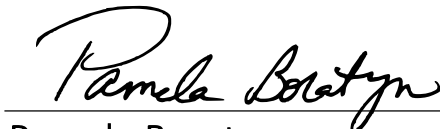
|                                            |                        |
|--------------------------------------------|------------------------|
| PROJECT EARTH DISTURBED AREA:              | 0.6 ACRES              |
| ESTIMATED CONTRACTOR EARTH DISTURBED AREA: | 0.3 ACRES              |
| NOTICE OF INTENT 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, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

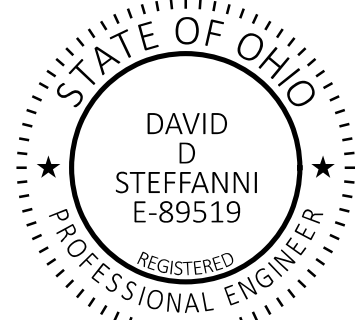
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.08.

  
John Picuri, P.E., P.S.  
District 12 Deputy Director

  
Pamela Boratyn  
Director, Department of Transportation

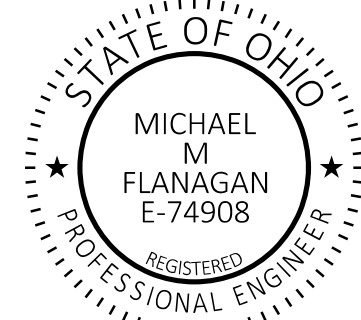
ENGINEER'S SEAL

ROADWAY



ENGINEER'S SEAL

GEOTECHNICAL



ITEM 614, MAINTAINING TRAFFIC

TO FACILITATE THE CONSTRUCTION, A FULL DETOUR OF BOTH WESTBOUND AND EASTBOUND TRAFFIC SHALL BE UTILIZED.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE LIMITED TO THE FOLLOWING WINDOW CONTRACT TABLE:

| DESCRIPTION OF CRITICAL WORK | CALENDAR DAYS TO COMPLETE | DISINCENTIVE \$ PER DAY | WORK WINDOW             |                         |
|------------------------------|---------------------------|-------------------------|-------------------------|-------------------------|
|                              |                           |                         | START                   | END                     |
| ALL WORK ON PROJECT          | 70                        | \$3,000 PER DAY         | CONTRACT EXECUTION DATE | PROJECT COMPLETION DATE |

CONTRACTOR SHALL COMPLETE ALL CRITICAL WORK WITHIN WORK WINDOW. CRITICAL WORK INCLUDES PAVEMENT REMOVAL, TEMPORARY SHEET PILING INSTALLATION, SLOPE REPAIR, PAVEMENT CONSTRUCTION, DRAINAGE IMPROVEMENTS AND GUARDRAIL INSTALLATION.

DETOUR SHALL NOT BE IMPLEMENTED BEFORE JUNE 1ST AND MUST BE TERMINATED BEFORE SEPTEMBER 1ST.

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

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

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

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

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60.

1

ITEM 614, MAINTAINING TRAFFIC (CONT.)

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

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 18 M. GAL.

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, INTERFERE, OR CLOSE TRAFFIC, IN ANY DIRECTION, AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

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

NOTIFICATION OF TRAFFIC RESTRICTIONS (CONT.)

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

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

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

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

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

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

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

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:  
ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND  
AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,  
AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR  
THE ACTIVE WORK AREA Laterally CLOSEst TO THE OPEN TRAVELED LANE; OR  
OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

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

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

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

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

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 24 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

1

DESIGN AGENCY



WSP USA, Inc.  
1660 W. 2nd Street,  
Suite 820  
Cleveland, OH 44113

DESIGNER

BLM

REVIEWER

DDS 07/24/25

PROJECT ID

115992

SHEET

P.06

TOTAL

31

1



ITEM 614, DETOUR SIGNING

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE DETOUR PLAN ON SHEET P.08 UNDER ITEM 614 - DETOUR SIGNING.

1

ITEM 630, SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER

WHEN ADDITIONAL SIGNING IS NEEDED TO MAINTAIN TRAFFIC, THE CONTRACTOR SHALL FURNISH THE SIGN OR SIGNS AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE GROUND MOUNTED AND MEET ALL THE SPECIFICATIONS OF THE PLAN, PROPOSAL AND CURRENT YEAR CMS.

PAYMENT FOR THIS ITEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE COST TO FURNISH AND ERECT THE SIGN, INCLUDING DRIVING POSTS OR OTHER APPROVED METHODS OF SIGN SUPPORT, MAINTAINING THE SIGN AND REMOVAL OF THE SIGN. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 630 – SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER 300 SQ FT

1



ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET P.8 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 24 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT. THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

1

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 6 SIGN MONTHS ASSUMING 2 PCMS SIGN FOR 3 MONTH(S)

MAINTENANCE OF TRAFFIC

1

SEQUENCE OF CONSTRUCTION

STEP 1:  
SETUP THE SIGNED U.S. 322 DETOUR. INSTALL TEMPORARY SIGNS ALONG THE DETOUR ROUTE AND COVER UNTIL READY TO CLOSE U.S. 322.

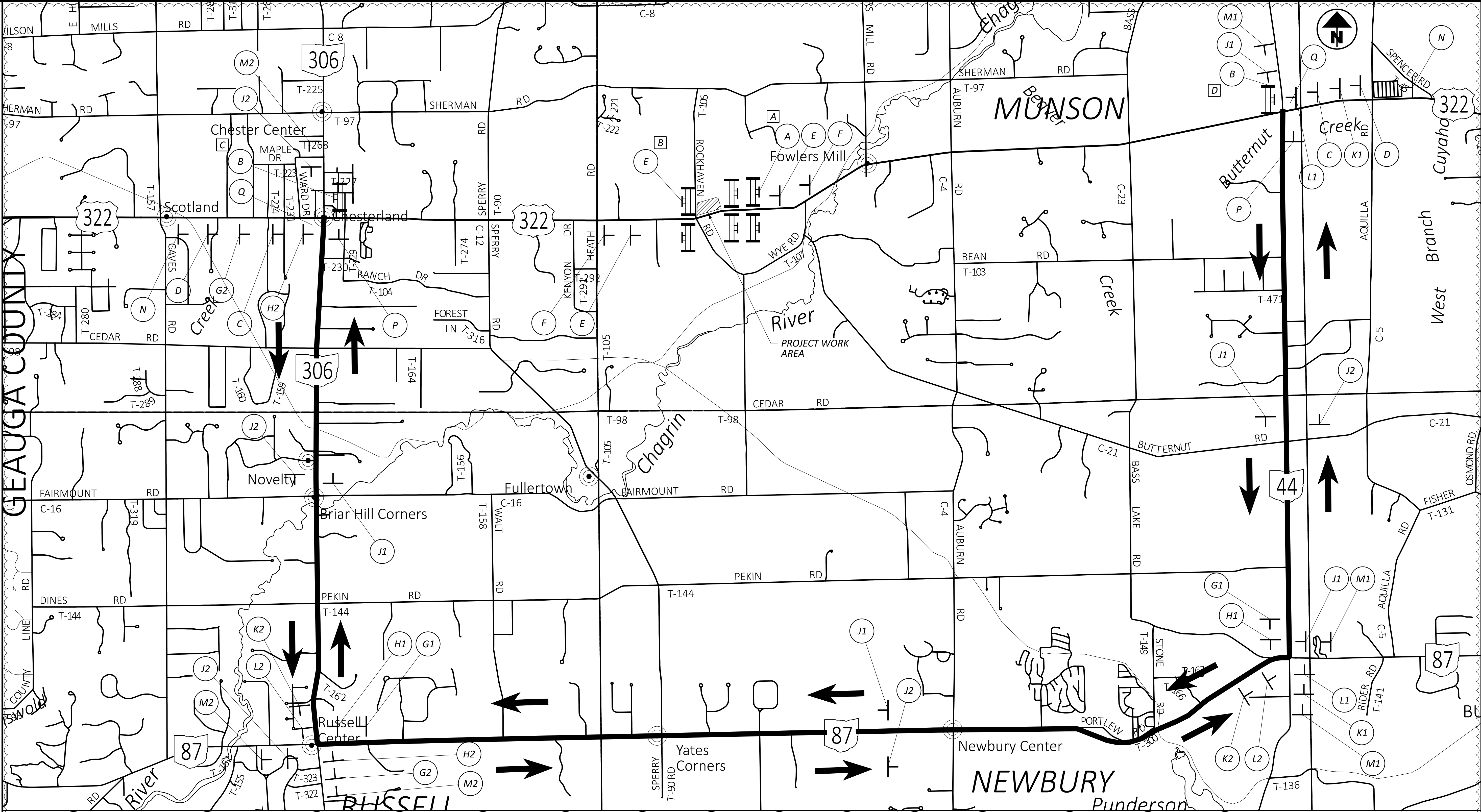
STEP 2:  
UNCOVER TEMPORARY SIGNS AND CLOSE U.S. 322. ONCE CLOSED, REMOVE GUARDRAIL, SAWCUT EXISTING PAVEMENT, REMOVE EXISTING WESTBOUND SHOULDER PAVEMENT OF U.S. 322, AND REPAIR SLOPE AT THE LIMITS SHOWN.

STEP 3:  
WIDEN WESTBOUND LANE BY COMPACTING SUBGRADE, INSTALL PROPOSED DRAINAGE CATCH BASINS THAT OUTLET NEAR ROCKHAVEN RD INTERSECTION. BUILD CURB, INSTALL PROPOSED PAVEMENT, AND INSTALL PROPOSED GUARDRAIL.

STEP 4:  
CONTRACTOR SHALL REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND RE-ESTABLISH EXISTING TRAFFIC CONTROL AT THE CONCLUSION OF CONSTRUCTION.

1

ADDENDUM 1  
11/21/2025



ROAD CLOSED

R11-2-48  
ON TYPE 3 BARRICADE  
(WITH TYPE B WARNING LIGHT)

ROAD CLOSED  
X.X MILES AHEAD  
LOCAL TRAFFIC ONLY

R11-3a-60  
M4-10R-48  
ON TYPE 3 BARRICADE  
(WITH TYPE B WARNING LIGHT)

DETOUR

DETOUR AHEAD 500 FT

DETOUR AHEAD 1000 FT

ROAD CLOSED 500 FT

ROAD CLOSED 1000 FT

DETOUR 322

DETOUR 322

DETOUR 322

DETOUR 322

DETOUR 322

DETOUR AHEAD

ROAD CLOSED AHEAD

END DETOUR

WEST

EAST

LEGEND

PROJECT WORK AREA

DETOUR DIRECTION

DETOUR ROUTE

TYPE III BARRICADE

PLACED AT LAST DRIVE IN WESTBOUND DIRECTION

PLACED AT EAST LEG OF U.S. 322 AND ROCKHAVEN RD. INTERSECTION

"3.0"

"4.5"

M4-8-30  
M1-4-30-3  
M5-1-30

M4-8-30  
M1-4-30-3  
M6-1-30

M4-8-30  
M1-4-30-3  
M6-3-30

M4-8-30  
M1-4-30-3  
M5-1-30

M4-8-30  
M1-4-30-3  
M6-1-30

W20-2-36  
M1-4-30-3

W20-3-36  
W16-3aP-30

M3-4-30

M3-2-30

HORIZONTAL SCALE IN FEET

0 1000 2000 4000

1

MAINTENANCE OF TRAFFIC  
DETOUR MAP

ADDENDUM 1  
11/21/2025

1

DESIGN AGENCY

**WSP**

WSP USA, Inc.  
1660 W 2nd St.  
Suite 820  
Cleveland, OH 44113

DESIGNER

REM

REVIEWER

DDS 04/15/25

PROJECT ID

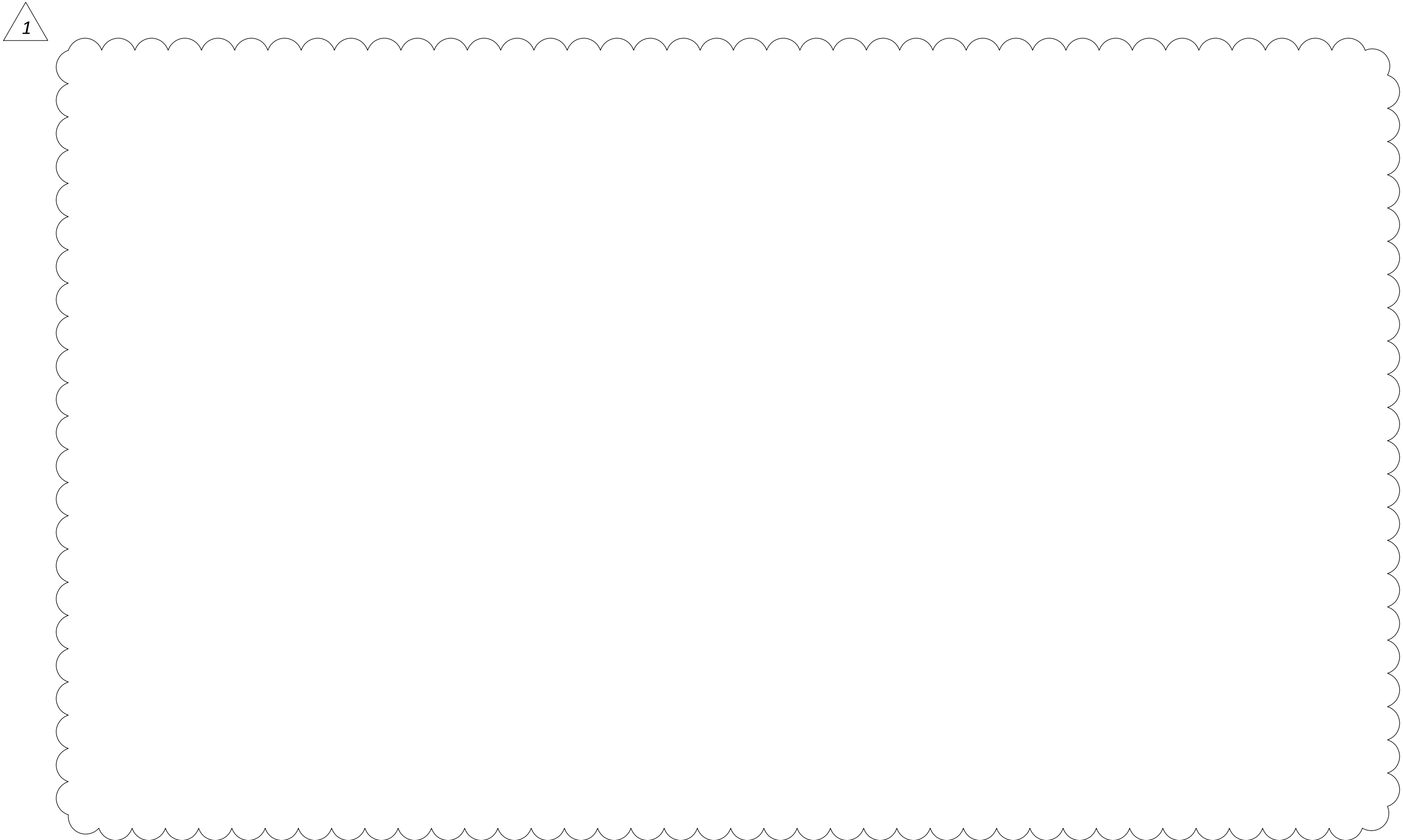
112663

SHEET

P.08

TOTAL

31



DESIGN AGENCY

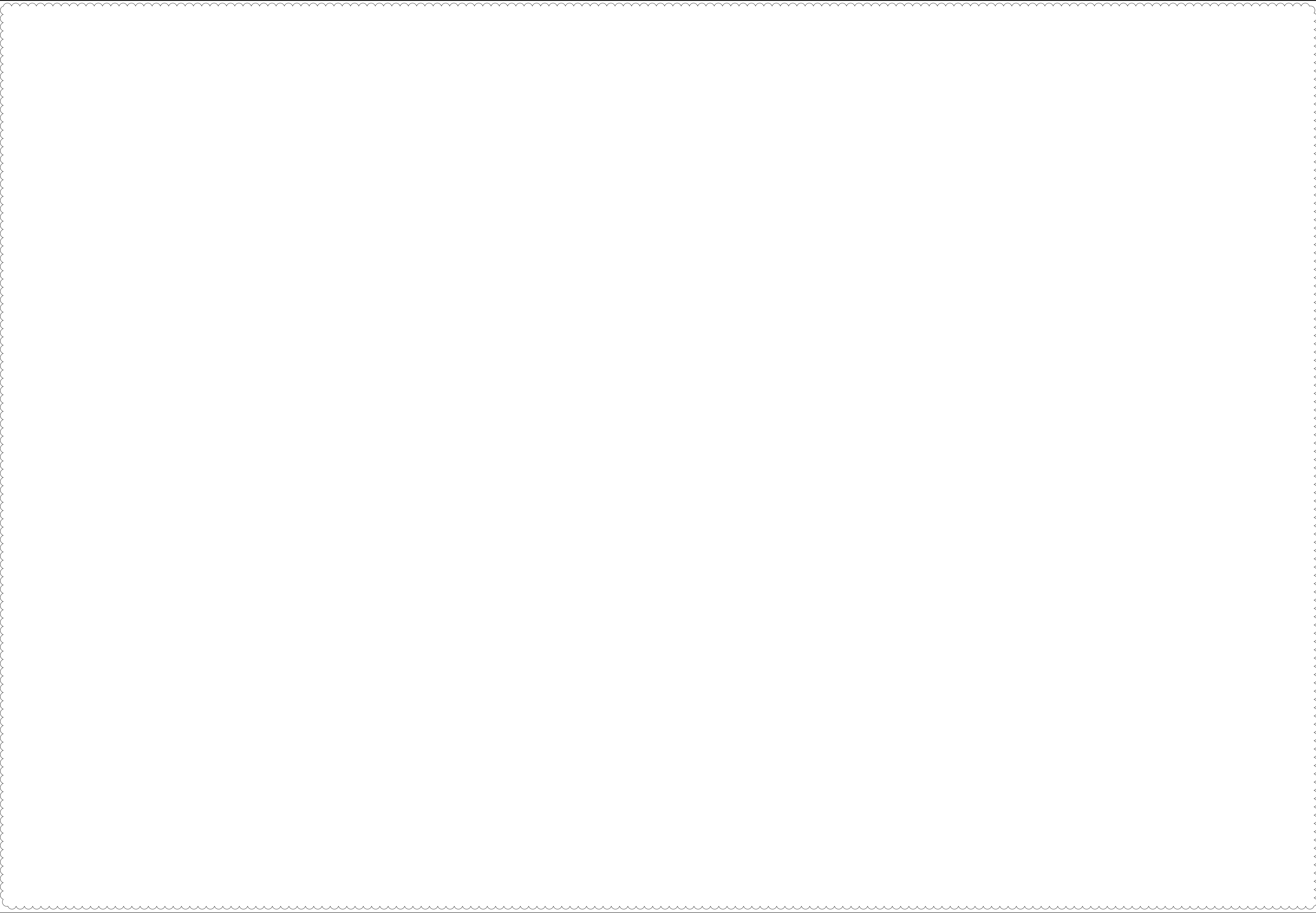


WSP USA, Inc.  
1660 W 2nd St.  
Suite 820  
Cleveland, OH 44113

|            |             |
|------------|-------------|
| DESIGNER   | REM         |
| REVIEWER   | DDS         |
| PROJECT ID | 04/15/25    |
| SHEET      | 112663      |
| P.09       | TOTAL<br>31 |

1  
ADDENDUM 1  
11/21/2025

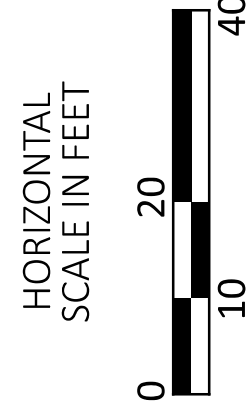
MAINTENANCE OF TRAFFIC  
TYPICAL SECTION



1

ADDENDUM 1  
11/21/2025

MOT PLAN  
GEA-322-05.76



DESIGN AGENCY

WSP USA, Inc.  
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Suite 820  
Cleveland, OH 44113

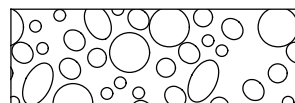
|            |          |
|------------|----------|
| DESIGNER   | ABS      |
| REVIEWER   |          |
| SJG        | 04/15/25 |
| PROJECT ID | 115992   |
| SHEET      | TOTAL    |
| P.10       | 31       |

| SHEET NUM.      |                           |     |     |     |       |       |      | PART.     | ITEM | ITEM<br>EXT | GRAND<br>TOTAL | UNIT | DESCRIPTION                                                                  |                                          |
|-----------------|---------------------------|-----|-----|-----|-------|-------|------|-----------|------|-------------|----------------|------|------------------------------------------------------------------------------|------------------------------------------|
| OFFICE<br>CALCS | P.4                       | P.5 | P.6 | P.7 | P.13  | P.23  | RW.2 | 01/STR/04 |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | ROADWAY                                                                      |                                          |
| 445             | LS                        |     |     |     |       |       |      | LS        | 201  | 11000       | LS             |      | CLEARING AND GRUBBING                                                        |                                          |
|                 |                           |     |     |     |       |       |      | 445       | 202  | 23000       | 445            | SY   | PAVEMENT REMOVED                                                             |                                          |
|                 |                           |     |     |     |       | 98    |      |           | 98   | 202         | 32000          | 98   | FT                                                                           | CURB REMOVED                             |
|                 |                           |     |     |     |       | 598   |      |           | 598  | 202         | 38000          | 598  | FT                                                                           | GUARDRAIL REMOVED                        |
|                 |                           |     |     |     |       | 1,478 |      | 1,478     | 203  | 10000       | 1,478          | CY   | EXCAVATION                                                                   |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
| 767             |                           |     |     |     |       |       |      | 2,907     | 203  | 20000       | 2,907          | CY   | EMBANKMENT                                                                   |                                          |
|                 |                           |     |     |     |       |       |      | 767       | 204  | 10000       | 767            | SY   | SUBGRADE COMPACTION                                                          |                                          |
|                 |                           |     |     |     |       | 20    |      |           | 20   | 209         | 10000          | 20   | FT                                                                           | DITCH CLEANOUT                           |
|                 |                           |     |     |     |       | 625   |      |           | 625  | 606         | 15050          | 625  | FT                                                                           | GUARDRAIL, TYPE MGS                      |
|                 |                           |     |     |     |       | 2     |      |           | 2    | 606         | 26150          | 2    | EACH                                                                         | ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016) |
|                 |                           |     |     |     |       |       | 1    | 1         | 623  | 40500       | 1              | EACH | REFERENCE MONUMENT, TYPE A                                                   |                                          |
|                 |                           |     |     |     |       |       | 7    | 7         | 623  | 40520       | 7              | EACH | RIGHT-OF-WAY MONUMENT, TYPE B                                                |                                          |
|                 |                           |     |     |     | 1     |       |      | 1         | 625  | 32000       | 1              | EACH | GROUND ROD                                                                   |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | EROSION CONTROL                                                              |                                          |
|                 | 2<br>371<br>3,338<br>167  |     |     |     | 1.11  |       |      | 1.11      | 601  | 32200       | 1.11           | CY   | ROCK CHANNEL PROTECTION, TYPE C WITH FILTER                                  |                                          |
|                 |                           |     |     |     |       |       |      | 2         | 659  | 00100       | 2              | EACH | SOIL ANALYSIS TEST                                                           |                                          |
|                 |                           |     |     |     |       |       |      | 371       | 659  | 00300       | 371            | CY   | TOPSOIL                                                                      |                                          |
|                 |                           |     |     |     |       |       |      | 3,338     | 659  | 10000       | 3,338          | SY   | SEEDING AND MULCHING                                                         |                                          |
|                 |                           |     |     |     |       |       |      | 167       | 659  | 14000       | 167            | SY   | REPAIR SEEDING AND MULCHING                                                  |                                          |
|                 | 167<br>0.46<br>0.69<br>28 |     |     |     |       |       |      | 167       | 659  | 15000       | 167            | SY   | INTER-SEEDING                                                                |                                          |
|                 |                           |     |     |     |       |       |      | 0.46      | 659  | 20000       | 0.46           | TON  | COMMERCIAL FERTILIZER                                                        |                                          |
|                 |                           |     |     |     |       |       |      | 0.69      | 659  | 31000       | 0.69           | ACRE | LIME                                                                         |                                          |
|                 |                           |     |     |     |       |       |      | 28        | 659  | 35000       | 28             | MGAL | WATER                                                                        |                                          |
|                 |                           |     |     |     |       |       |      | 5,000     | 832  | 30000       | 5,000          | EACH | EROSION CONTROL                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | DRAINAGE                                                                     |                                          |
|                 |                           |     |     |     | 0.2   |       |      | 0.2       | 602  | 20000       | 0.2            | CY   | CONCRETE MASONRY                                                             |                                          |
|                 |                           |     |     |     | 773   |       |      | 773       | 605  | 11100       | 773            | FT   | 6" SHALLOW PIPE UNDERDRAINS                                                  |                                          |
|                 |                           |     |     |     | 76    |       |      | 76        | 611  | 05900       | 76             | FT   | 15" CONDUIT, TYPE B                                                          |                                          |
|                 |                           |     |     |     | 20    |       |      | 20        | 611  | 06100       | 20             | FT   | 15" CONDUIT, TYPE C                                                          |                                          |
|                 |                           |     |     |     | 2     |       |      | 2         | 611  | 98180       | 2              | EACH | CATCH BASIN, NO. 3A                                                          |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     | 1     |       |      | 1         | 611  | 99574       | 1              | EACH | MANHOLE, NO. 3                                                               |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | PAVEMENT                                                                     |                                          |
|                 |                           |     |     |     | 320   |       |      | 320       | 304  | 20000       | 320            | CY   | AGGREGATE BASE                                                               |                                          |
|                 |                           |     |     |     | 1,300 |       |      | 1,300     | 423  | 00150       | 1,300          | LB   | CRACK SEALING, TYPE IV                                                       |                                          |
|                 |                           |     |     |     | 637   |       |      | 637       | 452  | 13010       | 637            | SY   | 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P                             |                                          |
|                 |                           |     |     |     | 780   |       |      | 780       | 609  | 26000       | 780            | FT   | CURB, TYPE 6                                                                 |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | TRAFFIC CONTROL                                                              |                                          |
|                 | 16<br>11                  |     |     |     |       |       |      | 16        | 621  | 00100       | 16             | EACH | RPM, ONE-WAY (WHITE)                                                         |                                          |
|                 |                           |     |     |     |       |       |      | 11        | 621  | 00100       | 11             | EACH | RPM, TWO-WAY (YELLOW/YELLOW)                                                 |                                          |
|                 |                           |     |     |     | 2     |       |      | 2         | 630  | 85100       | 2              | EACH | REMOVAL OF GROUND MOUNTED SIGN AND REERECTION                                |                                          |
|                 |                           |     |     |     | 0.3   |       |      | 0.3       | 807  | 12010       | 0.3            | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"                         |                                          |
|                 |                           |     |     |     | 0.31  |       |      | 0.31      | 807  | 12200       | 0.31           | MILE | WET REFLECTIVE EPOXY PAVEMENT MARKING, CENTER LINE                           |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     |     | 0.31  |       |      | 0.31      | 850  | 10000       | 0.31           | MILE | GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)                         |                                          |
|                 |                           |     |     |     | 0.15  |       |      | 0.15      | 850  | 10010       | 0.15           | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)                         |                                          |
|                 |                           |     |     |     | 0.15  |       |      | 0.15      | 850  | 20010       | 0.15           | MILE | GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)                        |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           | LS  |     |     |       |       |      | LS        | 503  | 11101       | LS             |      | MISCELLANEOUS STRUCTURE                                                      |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN                               |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     | 24  |     |       |       |      | 24        | 614  | 11110       | 24             | hour | MAINTENANCE OF TRAFFIC                                                       |                                          |
|                 |                           |     |     |     |       |       |      | LS        | 614  | 12420       | LS             |      | LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE                       |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      | DETOUR SIGNING                                                               |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     | 6   |       |       |      | 6         | 614  | 18601       | 6              | SNMT | PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN                                |                                          |
|                 |                           |     | 18  |     |       |       |      | 18        | 616  | 10000       | 18             | MGAL | WATER                                                                        |                                          |
|                 |                           |     |     |     |       |       |      |           |      |             |                |      |                                                                              |                                          |
|                 |                           |     |     | 300 |       |       |      | 300       | 630  | 97800       | 300            | SF   | SIGNING, MISC.:ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER |                                          |

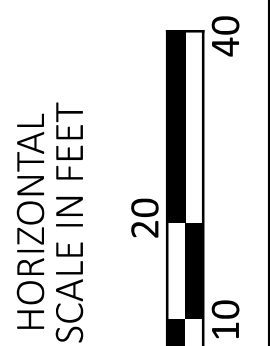
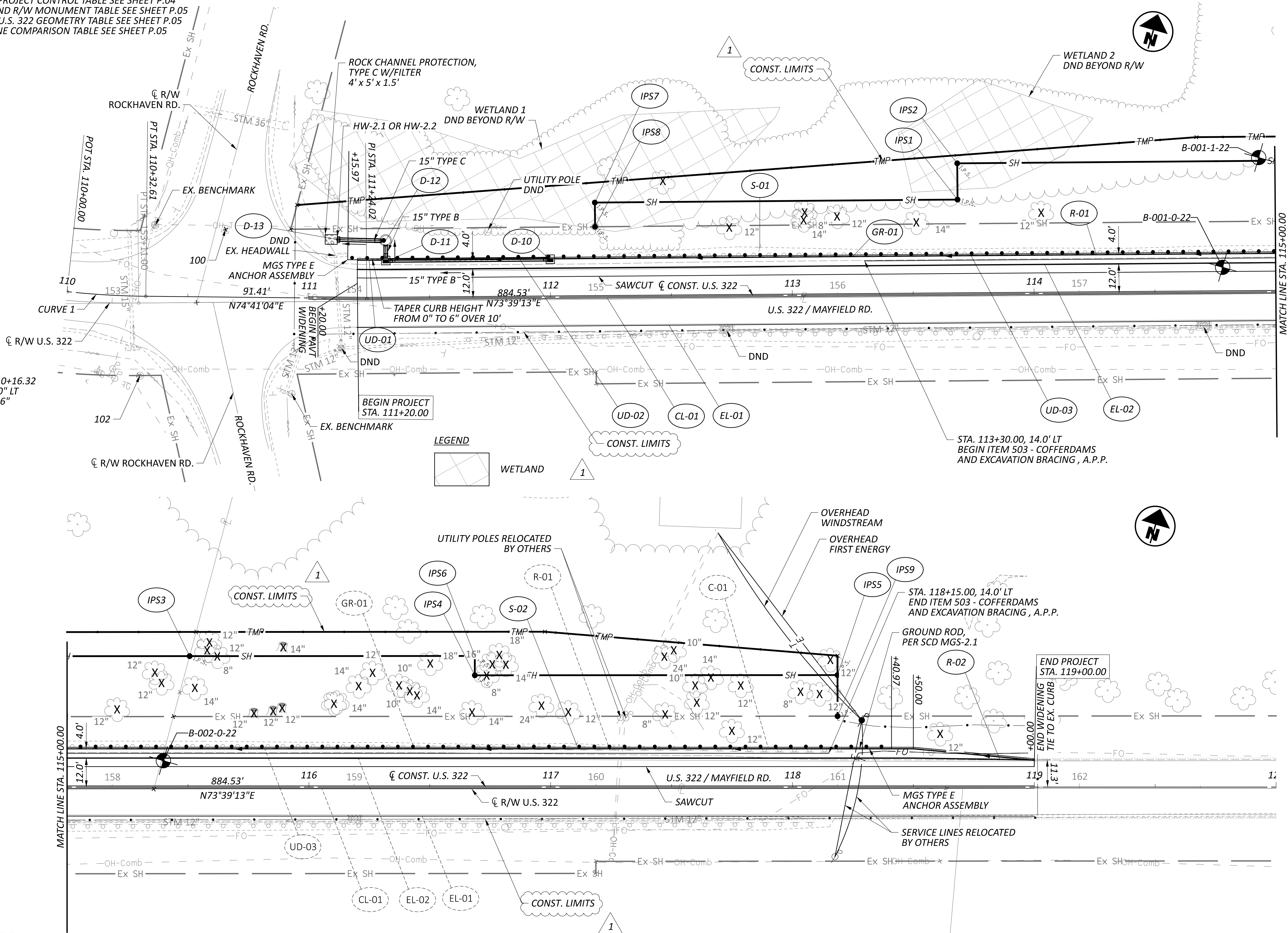
FOR PRIMARY PROJECT CONTROL TABLE SEE SHEET P.04  
FOR SURVEY AND R/W MONUMENT TABLE SEE SHEET P.05  
FOR C CONST. U.S. 322 GEOMETRY TABLE SEE SHEET P.05  
FOR CENTERLINE COMPARISON TABLE SEE SHEET P.05

**CURVE 1**  
P.I. = STA. 110+16.32  
 $\Delta = 05^{\circ}32'40''$  LT  
 $Dc = 17^{\circ}00'06''$   
 $R = 337.00'$   
 $T = 16.32'$   
 $L = 32.61'$   
 $E = 0.39'$

LEGEND



ITEM 601 - RIPRAP, WITH GROUT, AS PER PLAN



PLAN  
GEA-322-05.76

ADDENDUM 1  
11/21/2025

DESIGN AGENCY



WSP USA, Inc.  
1660 W 2nd St.  
Suite 820  
Cleveland, OH 44113

DESIGNER

DDS

REVIEWER

SIG 07/24/25

PROJECT ID

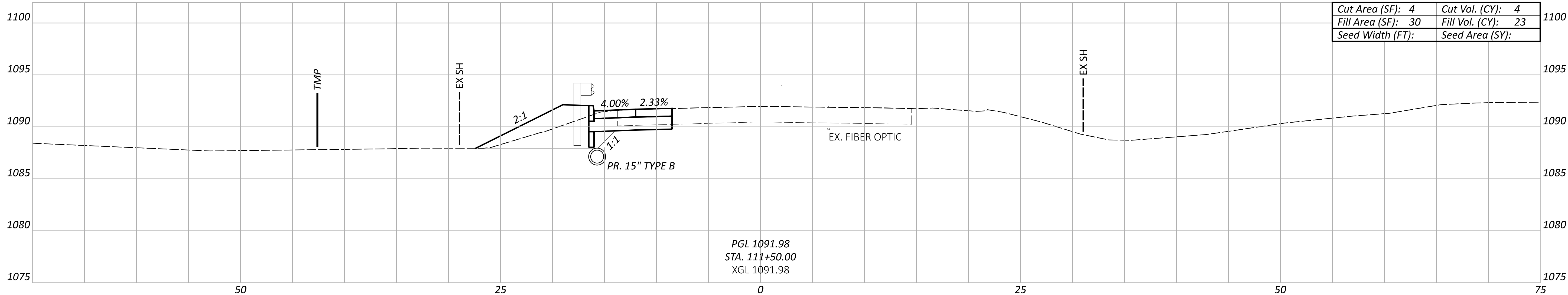
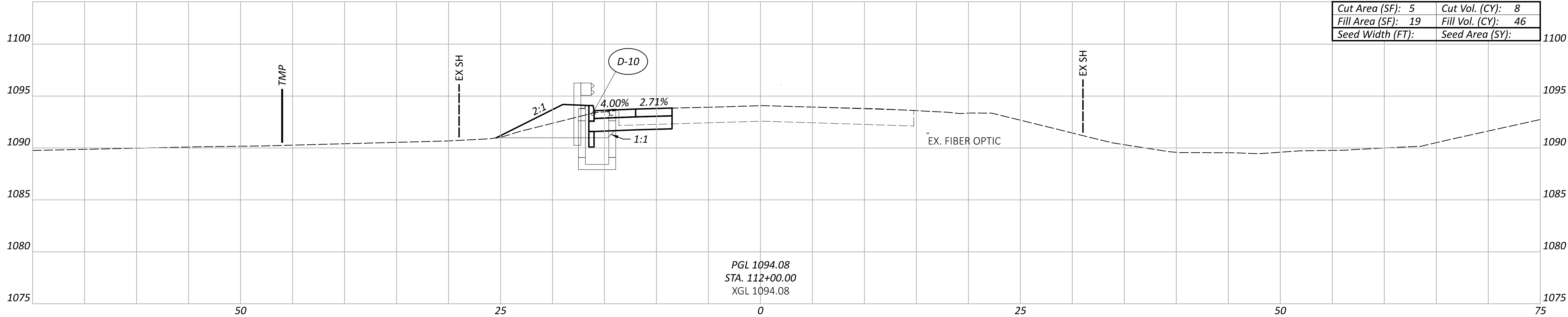
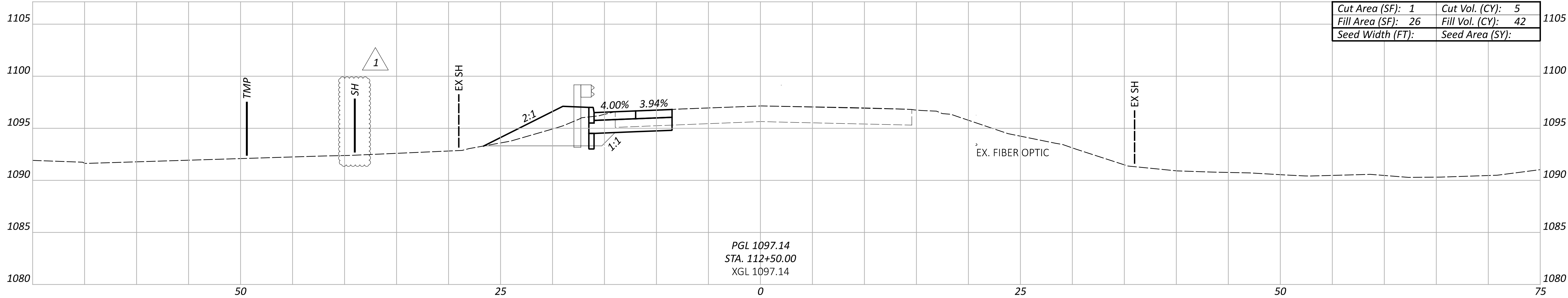
115992

SHEET

P.14

TOTAL

31



| Sheet Totals |     |      |
|--------------|-----|------|
| Seeding      | Cut | Fill |
| .            | .   | .    |

| SHEET | TOTAL |
|-------|-------|
| P.16  | 31    |

DESIGN AGENCY

**wsp**

WSP USA, Inc.  
1660 W 2nd St.  
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Cleveland, OH 44113

|            |        |
|------------|--------|
| DESIGNER   | DDS    |
| REVIEWER   | SJG    |
| PROJECT ID | 115992 |

APPENDUM 1

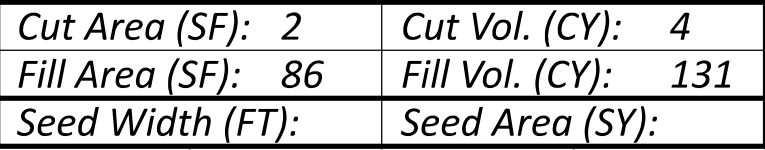
11/21/2025

1

CROSS SECTIONS - GEA-322-05.76

STA. 111+50.00 TO STA. 112+50.00

MODEL: CLP2\_GEA-322-05.76 - 113+00.00 PAPER SIZE: 34x22 (in.) DATE: 11/21/2025 TIME: 1:05:27 PM USER: USDS701749  
pw://wsp-us-pw.bentley.com:wsp-us-pw-02/Documents\\OH - OHIO Projects\\112663\\400-Engineering\\Roadway\\Sheets\\112663\_XS301.dgn



|                    |                    |
|--------------------|--------------------|
| Cut Area (SF): 2   | Cut Vol. (CY): 3   |
| Fill Area (SF): 55 | Fill Vol. (CY): 75 |
| Seed Width (FT):   | Seed Area (SY):    |

| Sheet Totals |     |   |
|--------------|-----|---|
| Seeding      | Cut | F |
| .            | .   |   |

|       |       |
|-------|-------|
| SHEET | TOTAL |
| P.17  | 31    |

DESIGN AGENCY



WSP USA, Inc.  
1660 W 2nd St,  
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Cleveland, OH 44113

DESIGNER

DDS

REVIEWE

SJG 04/15/25

PROJECT 1

11599

|       |       |
|-------|-------|
| SHEET | TOTAL |
| P.17  | 31    |

CROSS SECTIONS - GEA-322-05.76  
STA. 113+00.00 TO STA. 113+50.00