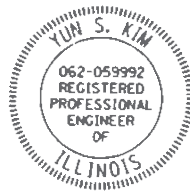


ARDMORE RODERICK  
YUN S. KIM, P.E.  
# 062-059992



DATE: 11/30/2027  
SIGNATURE AND SEAL  
APPLIES TO DRAWINGS:  
1-19, 24-27, 44-48, 53-58

GSG CONSULTANTS  
DEREK A. MEYERS  
# 062-070946



DATE: 11/30/2027  
SIGNATURE AND SEAL  
APPLIES TO DRAWINGS:  
20-23

GSG CONSULTANTS  
MAJLINDA AGOJCI  
# 081-006911



DATE: 11/30/2026  
SIGNATURE AND SEAL  
APPLIES TO DRAWINGS:  
33-43

SINGH AND ASSOCIATES  
SAMEER S. AGRAWAL  
# 062-072788

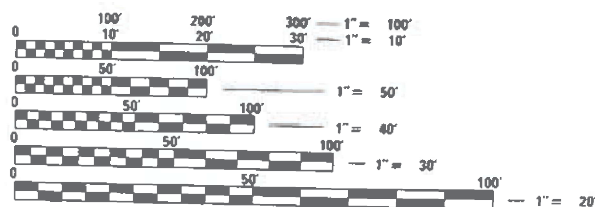


DATE: 11/30/2027  
SIGNATURE AND SEAL  
APPLIES TO DRAWINGS:  
28-32, 49-52

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN CITY OF ZION

TRAFFIC DATA (IL 173):  
ADT 2023: 11,300 VPD  
POSTED SPEED LIMIT: 45 MPH  
DESIGN SPEED LIMIT: 45 MPH



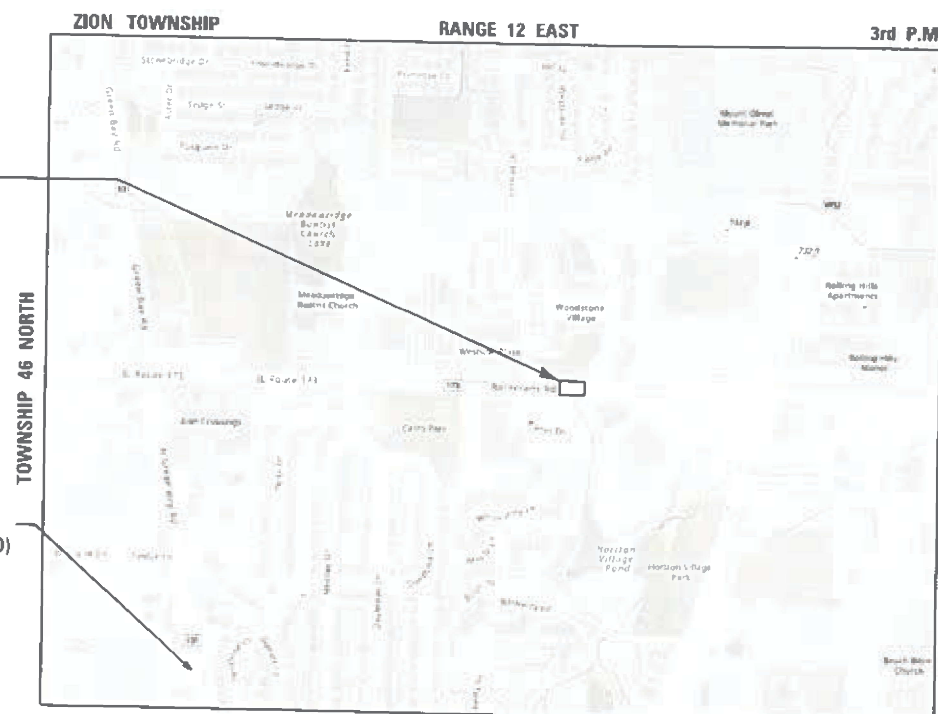
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT LOCATION  
IL 173 (ROSECRANS ROAD)  
OVER UNNAMED DITCH

S.N. 049-0522 (EXIST.)  
S.N. 049-8300 (PROP.)

IL 131  
(GREEN BAY ROAD)



LOCATION MAP  
(NOT TO SCALE)

GROSS & NET LENGTH = 500 FT. = 0.10 MILE

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## PROPOSED HIGHWAY PLANS

FAP ROUTE 303 IL 173 (ROSECRANS ROAD)  
AT UNNAMED DITCH (0.5 MILES EAST OF IL 131)  
SECTION: FAP 0303 22 CR  
PROJECT NO.: NHPP-1JD1(749)  
CULVERT REPLACEMENT  
LAKE COUNTY  
C-91-266-22

2

| F.A.P. RTE.           | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|--------------------|--------------|-----------|
| 303                   | FAP 0303 22 CR | LAKE               | 58           | 1         |
| FED. ROAD DIST. NO. 1 | ILLINOIS       | CONTRACT NO. 62T82 |              |           |

\*58 + 2 = 60 TOTAL SHEETS  
D-91-213-22



LOCATION OF SECTION INDICATED THUS: -

ARDMORE RODERICK

SINGH  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

GSG CONSULTANTS, INC.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED: Dec 4<sup>th</sup> 2025  
2025  
2025  
REGIONAL ENGINEER  
January 23 2026  
ENGINEER OF DESIGN AND ENVIRONMENT  
January 23 2026  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

REVISD SHEET 2/17/2026

PROJECT MANAGER PRAVEEN KAINI, P.E. (847) 705-4237

CONTRACT NO. 62T82

INDEX OF SHEETS

| SHEET NO. | DESCRIPTION                                                                            |
|-----------|----------------------------------------------------------------------------------------|
| 1         | COVER SHEET                                                                            |
| 2         | INDEX OF SHEETS, STANDARDS, COMMITMENTS, AND GENERAL NOTES                             |
| 3-9       | SUMMARY OF QUANTITIES                                                                  |
| 10        | EARTHWORK SCHEDULE                                                                     |
| 11        | ALIGNMENT, TIES, AND BENCHMARKS                                                        |
| 12-13     | TYPICAL SECTIONS                                                                       |
| 14        | REMOVAL PLAN                                                                           |
| 15        | PROPOSED ROADWAY PLAN AND PROFILE                                                      |
| 16        | MAINTENANCE OF TRAFFIC GENERAL NOTES                                                   |
| 17        | MAINTENANCE OF TRAFFIC TYPICAL SECTIONS                                                |
| 18-19     | MAINTENANCE OF TRAFFIC PLANS                                                           |
| 20        | EROSION CONTROL NOTES                                                                  |
| 21-22     | EROSION CONTROL PLANS                                                                  |
| 23        | DRAINAGE PLAN AND PROFILE                                                              |
| 23A-23B   | NORTH SHORE WATER RELCAMATION DISTRICT SANITARY FORCE MAIN RELOCATION PLAN AND DETAILS |
| 24-26     | PLAT OF HIGHWAYS                                                                       |
| 27        | PAVEMENT MARKING AND LANDSCAPE PLAN                                                    |
| 28-32     | TEMPORARY LIGHTING AND TRAFFIC SIGNAL PLANS                                            |
| 33-43     | CULVERT PLANS (STRUCTURE NO. 049-8300)                                                 |
| 44-46     | CROSS SECTIONS                                                                         |
| 47        | BD-03 OUTLET FOR CONCRETE CURB AND GUTTER                                              |
| 48        | BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING                                          |
| 49        | BE-800 TEMPORARY LIGHT POLE                                                            |
| 50-52     | BE-805 TEMPORARY LIGHTING AND TRAFFIC SIGNALS FOR SINGLE LANE STAGING                  |
| 53        | TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS      |
| 54        | TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)                         |
| 55        | TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS                                           |
| 56        | TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS                                  |
| 57        | TC-22 ARTERIAL ROAD INFORMATIONAL SIGN                                                 |
| 58        | TC-26 DRIVEWAY ENTRANCE SIGNING                                                        |

LIST OF HIGHWAY STANDARDS

| STANDARD NO. | DESCRIPTION                                                                   |
|--------------|-------------------------------------------------------------------------------|
| 000001-09    | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS                                 |
| 001001-02    | AREAS OF REINFORCEMENT BARS                                                   |
| 001006       | DECIMAL OF AN INCH AND OF A FOOT                                              |
| 280001-07    | TEMPORARY EROSION CONTROL SYSTEMS                                             |
| 482001-02    | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT                                    |
| 482011-03    | HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS |
| 515001-04    | NAME PLATE FOR BRIDGES                                                        |
| 601001-05    | PIPE UNDERDRAINS                                                              |
| 601101-02    | CONCRETE HEADWALL FOR PIPE UNDERDRAINS                                        |
| 630001-13    | STEEL PLATE BEAM GUARDRAIL                                                    |
| 630106-02    | LONG-SPAN GUARDRAIL OVER CULVERT                                              |
| 630301-09    | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS                    |
| 631011-10    | TRAFFIC BARRIER TERMINAL, TYPE 2                                              |
| 701301-04    | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                   |
| 701311-03    | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY                            |
| 701321-19    | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER                              |
| 701501-06    | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED                                         |
| 701502-09    | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE                 |
| 701901-11    | TRAFFIC CONTROL DEVICES                                                       |
| 704001-08    | TEMPORARY CONCRETE BARRIER                                                    |
| 780001-05    | TYPICAL PAVEMENT MARKINGS                                                     |
| 782006-01    | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                         |

COMMITMENTS

1. TO CONSERVE THE NORTHERN LONG EARED BAT (NLEB) AND TRICOLORED BAT (TCB), NO TREE REMOVAL SHALL OCCUR BETWEEN APRIL 1 AND OCTOBER 31 OF ANY GIVEN YEAR.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL CONTACT THE DISTRICT TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, THE CITY OF ZION, AND LAKE COUNTY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS, BY THE CONTRACTOR, SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- THE COST OF SAW CUTTING SHALL BE INCLUDED IN THE UNIT PRICES FOR THE VARIOUS REMOVAL PAY ITEMS.
- EXISTING UNDERGROUND AND ABOVE-GROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE RESIDENT ENGINEER SHALL CONTACT BRANDY KENNEDY, AREA TRAFFIC FIELD ENGINEER, AT BRANDY.KENNEDY@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ANY DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE "DISTRICT 1 TYPICAL PAVEMENT MARKING" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER AND CONTRACTOR SHALL VERIFY ALL EXISTING PAVEMENT MARKING PRIOR TO THE PROJECT STARTING. IF A DISCREPANCIES OCCURS BETWEEN EXISTING PAVEMENT MARKINGS AND THE PROPOSED PAVEMENT MARKINGS, THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF TRAFFIC OPERATIONS.
- THE CONTRACTOR SHALL CONTACT THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR, MEADE ELECTRIC COMPANY, AT (773) 287-7672 PRIOR TO THE START OF CONSTRUCTION TO LOCATE ALL IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- ONLY THOSE TREES DESIGNATED BY THE ENGINEER, LISTED IN THE TREE REMOVAL SCHEDULE, OR SHOWN IN THE PLANS SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS/HER OPERATIONS.
- ALL AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR EXPENSE.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER 9 INCHES SHALL BE CS 1 OR RR 1.

GENERAL NOTES CONTINUED

- THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL STAGES OF CONSTRUCTION.
- POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THIS WORK IS NOT TO BE PAID SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- DURING CONSTRUCTION OPERATION, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED THE MATERIAL SHALL BE REMOVED A THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE OF DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT.
- THE "ROAD CONSTRUCTION AHEAD" SIGNS SHALL REMAIN INSTALLED UNTIL THE COMPLETION OF THE PROJECT OR WHEN NO ROADWAY HAZARDS REMAIN WITHIN THE WORK ZONE.
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE AFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING, AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THIS PROJECT REQUIRES AN US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AND IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE TRUCK.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE WOVEN.

2 REVISED SHEET 2/17/2026

FILE NAME = 2.0000' / in.  
PLOT SCALE =  
USER NAME =



|            |                 |
|------------|-----------------|
| USER NAME  | = rileywhite    |
| PLOT SCALE | = 2.0000' / in. |
| PLOT DATE  | = 2/13/2026     |

|          |              |
|----------|--------------|
| DESIGNED | - RW         |
| DRAWN    | - RW         |
| CHECKED  | - YK         |
| DATE     | - 12/05/2025 |

|         |              |
|---------|--------------|
| REVISED | - 02/17/2026 |
| REVISED | -            |
| REVISED | -            |
| REVISED | -            |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
INDEX OF SHEETS, STANDARDS, COMMITMENTS, & GENERAL NOTES

|        |                         |      |         |
|--------|-------------------------|------|---------|
| SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |
|--------|-------------------------|------|---------|

| F.A.P. RTE.                                     | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------------------------------|----------------|--------|--------------|-----------|
| 303                                             | FAP 0303 22 CR | LAKE   | 58           | 2         |
| CONTRACT NO. 62T82                              |                |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |        |              |           |

FILE NAME = SFILES  
PLOT SCALE = 2.0000' / in.  
USER NAME = rileywhite



|                            |                   |                                                                                                            |
|----------------------------|-------------------|------------------------------------------------------------------------------------------------------------|
| USER NAME = rileywhite     | DESIGNED - RW     | REVISED -  02/17/2026 |
|                            | DRAWN - RW        | REVISED -                                                                                                  |
| PLOT SCALE = 2.0000' / in. | CHECKED - YK      | REVISED -                                                                                                  |
| PLOT DATE = 12/4/2025      | DATE - 12/05/2025 | REVISED -                                                                                                  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 7 SHEETS STA. TO STA.

|                                                 |                |        |              |           |
|-------------------------------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.                                     | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 303                                             | FAP 0303 22 CR | LAKE   | 58           | 3         |
| CONTRACT NO. 62T82                              |                |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |        |              |           |

| CODE NO. | ITEM                                         | UNIT  | TOTAL QUANTITY | CONSTR. CODE                        | CONSTR. CODE                                   |
|----------|----------------------------------------------|-------|----------------|-------------------------------------|------------------------------------------------|
|          |                                              |       |                | 80% FED<br>20% STATE<br>BOX CULVERT | 100% NORTH SHORE<br>WATER<br>RECLAMATION DIST. |
|          |                                              |       |                | 0004                                |                                                |
|          |                                              |       |                | 049-8300                            | 049-8300                                       |
|          |                                              |       |                |                                     |                                                |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER)        | UNIT  | 38             | 38                                  |                                                |
|          |                                              |       |                |                                     |                                                |
| 20200100 | EARTH EXCAVATION                             | CU YD | 824            | 824                                 |                                                |
|          |                                              |       |                |                                     |                                                |
| 20400800 | FURNISHED EXCAVATION                         | CU YD | 460            | 460                                 |                                                |
|          |                                              |       |                |                                     |                                                |
| 20700220 | POROUS GRANULAR EMBANKMENT                   | CU YD | 90             | 90                                  |                                                |
| 20800150 | TRENCH BACKFILL                              | CU YD | 50             |                                     | 50                                             |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 61             | 61                                  |                                                |
|          |                                              |       |                |                                     |                                                |
| 21101505 | TOPSOIL EXCAVATION AND PLACEMENT             | CU YD | 76             | 76                                  |                                                |
| 21101600 | TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH    | SQ YD | 140            |                                     | 140                                            |
| 25000210 | SEEDING, CLASS 2A                            | ACRE  | 0.25           | 0.25                                |                                                |
| 25000110 | SEEDING, CLASS 1A                            | ACRE  | 0.03           |                                     | 0.03                                           |
| 25000324 | SEEDING, CLASS 5B                            | ACRE  | 0.25           | 0.25                                |                                                |
|          |                                              |       |                |                                     |                                                |
| 25000400 | NITROGEN FERTILIZER NUTRIENT                 | POUND | 23             | 23                                  |                                                |
|          |                                              |       |                |                                     |                                                |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT               | POUND | 23             | 23                                  |                                                |
|          |                                              |       |                |                                     |                                                |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT                | POUND | 23             | 23                                  |                                                |
|          |                                              |       |                |                                     |                                                |
| 25100115 | MULCH, METHOD 2                              | ACRE  | 0.25           | 0.25                                |                                                |
|          |                                              |       |                |                                     |                                                |
| 25100630 | EROSION CONTROL BLANKET                      | SQ YD | 2582           | 2442                                | 140                                            |
|          |                                              |       |                |                                     |                                                |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING            | POUND | 26             | 26                                  |                                                |
|          |                                              |       |                |                                     |                                                |

\* = SPECIALTY ITEM

 REVISED SHEET 2/17/2026

FILE NAME = SFILES  
PLOT SCALE = 2.0000' / in.  
USER NAME = rileywhite



|            |                 |
|------------|-----------------|
| USER NAME  | = rileywhite    |
| PLOT SCALE | = 2.0000' / in. |
| PLOT DATE  | = 12/4/2025     |

|          |              |
|----------|--------------|
| DESIGNED | - RW         |
| DRAWN    | - RW         |
| CHECKED  | - YK         |
| DATE     | - 12/05/2025 |

|         |               |
|---------|---------------|
| REVISED | -  02/17/2026 |
| REVISED | -             |
| REVISED | -             |
| REVISED | -             |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
SUMMARY OF QUANTITIES

|        |                         |      |         |
|--------|-------------------------|------|---------|
| SCALE: | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA. |
|--------|-------------------------|------|---------|

|                                                     |                |        |              |           |
|-----------------------------------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.                                         | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 303                                                 | FAP 0303 22 CR | LAKE   | 58           | 4         |
| CONTRACT NO. 62T82                                  |                |        |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |        |              |           |

REVISED SHEET 2/17/2026

| CODE NO. | ITEM                                                 | UNIT  | TOTAL QUANTITY | CONSTR. CODE                        | CONSTR. CODE                                   |
|----------|------------------------------------------------------|-------|----------------|-------------------------------------|------------------------------------------------|
|          |                                                      |       |                | 80% FED<br>20% STATE<br>BOX CULVERT | 100% NORTH SHORE<br>WATER<br>RECLAMATION DIST. |
|          |                                                      |       |                | 0004                                |                                                |
|          |                                                      |       |                | 049-8300                            | 049-8300                                       |
|          |                                                      |       |                |                                     |                                                |
| 28000305 | TEMPORARY DITCH CHECKS                               | FOOT  | 235            | 235                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 28000400 | PERIMETER EROSION BARRIER                            | FOOT  | 661            | 661                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 28000510 | INLET FILTERS                                        | EACH  | 1              | 1                                   |                                                |
|          |                                                      |       |                |                                     |                                                |
| 28100107 | STONE RIPRAP, CLASS A4                               | SQ YD | 117            | 117                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 28200200 | FILTER FABRIC                                        | SQ YD | 117            | 117                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 28300400 | AGGREGATE DITCH                                      | TON   | 47             | 47                                  |                                                |
|          |                                                      |       |                |                                     |                                                |
| 30300001 | AGGREGATE SUBGRADE IMPROVEMENT                       | CU YD | 25             | 25                                  |                                                |
|          |                                                      |       |                |                                     |                                                |
| 30300112 | AGGREGATE SUBGRADE IMPROVEMENT 12"                   | SQ YD | 501            | 501                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)                     | POUND | 858            | 858                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 40600370 | LONGITUDINAL JOINT SEALANT                           | FOOT  | 864            | 864                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 40603090 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90          | TON   | 76             | 76                                  |                                                |
|          |                                                      |       |                |                                     |                                                |
| 40604062 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | TON   | 181            | 181                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 44000100 | PAVEMENT REMOVAL                                     | SQ YD | 191            | 191                                 |                                                |
|          |                                                      |       |                |                                     |                                                |
| 44000157 | HOT-MIX ASPHALT SURFACE REMOVAL, 2"                  | SQ YD | 1435           | 1435                                |                                                |
|          |                                                      |       |                |                                     |                                                |

\* = SPECIALTY ITEM

FILE NAME = SFILES  
PLOT SCALE = 2.0000' / in.  
USER NAME = rileywhite



|                            |                   |                                                                                                            |
|----------------------------|-------------------|------------------------------------------------------------------------------------------------------------|
| USER NAME = rileywhite     | DESIGNED - RW     | REVISED -  02/17/2026 |
|                            | DRAWN - RW        | REVISED -                                                                                                  |
| PLOT SCALE = 2.0000' / in. | CHECKED - YK      | REVISED -                                                                                                  |
| PLOT DATE = 12/4/2025      | DATE - 12/05/2025 | REVISED -                                                                                                  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
SUMMARY OF QUANTITIES

|        |                         |              |
|--------|-------------------------|--------------|
| SCALE: | SHEET NO. 3 OF 7 SHEETS | STA. TO STA. |
|--------|-------------------------|--------------|

|                                                 |                |        |              |           |
|-------------------------------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.                                     | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 303                                             | FAP 0303 22 CR | LAKE   | 58           | 5         |
| CONTRACT NO. 62T82                              |                |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |        |              |           |

 REVISED SHEET 2/17/2026

| CODE NO.            | ITEM                                                       | UNIT             | TOTAL QUANTITY | CONSTR. CODE         | CONSTR. CODE                                |
|---------------------|------------------------------------------------------------|------------------|----------------|----------------------|---------------------------------------------|
|                     |                                                            |                  |                | 80% FED<br>20% STATE | 100% NORTH SHORE<br>WATER RECLAMATION DIST. |
|                     |                                                            |                  |                | BOX CULVERT          |                                             |
|                     |                                                            |                  |                | 0004                 |                                             |
|                     |                                                            |                  |                | 049-8300             | 049-8300                                    |
| 44000500            | COMBINATION CURB AND GUTTER REMOVAL                        | FOOT             | 309            | 309                  |                                             |
| 44004000            | PAVED DITCH REMOVAL                                        | FOOT             | 43             | 43                   |                                             |
| 44004250            | PAVED SHOULDER REMOVAL                                     | SQ YD            | 77             | 77                   |                                             |
| 48101498            | AGGREGATE SHOULDERS, TYPE B 4"                             | SQ YD            | 199            | 199                  |                                             |
| 48203037            | HOT-MIX ASPHALT SHOULDERS, 10"                             | SQ YD            | 268            | 268                  |                                             |
| 48203100            | HOT-MIX ASPHALT SHOULDERS                                  | TON              | 12             | 12                   |                                             |
| 50100100            | REMOVAL OF EXISTING STRUCTURES                             | EACH             | 2              | 2                    |                                             |
| 50105220            | PIPE CULVERT REMOVAL                                       | FOOT             | 15             | 15                   |                                             |
| 50200100            | STRUCTURE EXCAVATION                                       | CU YD            | 153            | 153                  |                                             |
| 50200450            | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES | CU YD            | 52             | 52                   |                                             |
| 50300300            | PROTECTIVE COAT                                            | SQ YD            | 6              | 6                    |                                             |
| 50800205            | REINFORCEMENT BARS, EPOXY COATED                           | POUND            | 19920          | 19920                |                                             |
| 50800515            | BAR SPLICERS                                               | EACH             | 68             | 68                   |                                             |
| <del>52200020</del> | <del>TEMPORARY SOIL RETENTION SYSTEM</del>                 | <del>SQ FT</del> | <del>583</del> | <del>583</del>       |                                             |
| 52200010            | TEMPORARY SHEET PILING                                     | SQ FT            | 1070           | 1070                 |                                             |
| 54003000            | CONCRETE BOX CULVERTS                                      | CU YD            | 95.5           | 95.5                 |                                             |

\* = SPECIALTY ITEM

FILE NAME = SFILES  
PLOT SCALE = 2.0000' / in.  
USER NAME = rileywhite



|            |                 |
|------------|-----------------|
| USER NAME  | = rileywhite    |
| PLOT SCALE | = 2.0000' / in. |
| PLOT DATE  | = 12/4/2025     |

|          |              |
|----------|--------------|
| DESIGNED | - RW         |
| DRAWN    | - RW         |
| CHECKED  | - YK         |
| DATE     | - 12/05/2025 |

|         |               |
|---------|---------------|
| REVISED | -  02/17/2026 |
| REVISED | -             |
| REVISED | -             |
| REVISED | -             |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
SUMMARY OF QUANTITIES

|        |                         |      |         |
|--------|-------------------------|------|---------|
| SCALE: | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA. |
|--------|-------------------------|------|---------|

|                                                 |                |        |              |           |
|-------------------------------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.                                     | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 303                                             | FAP 0303 22 CR | LAKE   | 58           | 6         |
| CONTRACT NO. 62T82                              |                |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |        |              |           |

REVISED SHEET 2/17/2026

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\* = SPECIALTY ITEM

| CODE NO.   | ITEM                                               | UNIT  | TOTAL QUANTITY | CONSTR. CODE                        | CONSTR. CODE                                   |
|------------|----------------------------------------------------|-------|----------------|-------------------------------------|------------------------------------------------|
|            |                                                    |       |                | 80% FED<br>20% STATE<br>BOX CULVERT | 100% NORTH SHORE<br>WATER<br>RECLAMATION DIST. |
|            |                                                    |       |                | 0004                                |                                                |
|            |                                                    |       |                | 049-8300                            | 049-8300                                       |
|            |                                                    |       |                |                                     |                                                |
| 54248510   | CONCRETE COLLAR                                    | CU YD | 1              | 1                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| 55100500   | STORM SEWER REMOVAL 12"                            | FOOT  | 2              | 2                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| 55100900   | STORM SEWER REMOVAL 18"                            | FOOT  | 13             | 13                                  |                                                |
|            |                                                    |       |                |                                     |                                                |
| 60100060   | CONCRETE HEADWALLS FOR PIPE DRAINS                 | EACH  | 4              | 4                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| 60108204   | PIPE UNDERDRAINS, TYPE 2, 4"                       | FOOT  | 418            | 418                                 |                                                |
|            |                                                    |       |                |                                     |                                                |
| 60500060   | REMOVING INLETS                                    | EACH  | 1              | 1                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| 60600095   | CLASS SI CONCRETE (OUTLET)                         | CU YD | 1.8            | 1.8                                 |                                                |
|            |                                                    |       |                |                                     |                                                |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS   | FOOT  | 250            | 250                                 |                                                |
|            |                                                    |       |                |                                     |                                                |
| 63000360   | LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN  | FOOT  | 88             | 88                                  |                                                |
|            |                                                    |       |                |                                     |                                                |
| 63100167   | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH  | 4              | 4                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| 63200310   | GUARDRAIL REMOVAL                                  | FOOT  | 271            | 271                                 |                                                |
|            |                                                    |       |                |                                     |                                                |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL                         | CU YD | 565            | 565                                 |                                                |
|            |                                                    |       |                |                                     |                                                |
| * 66900530 | SOIL DISPOSAL ANALYSIS                             | EACH  | 1              | 1                                   |                                                |
|            |                                                    |       |                |                                     |                                                |
| * 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN         | L SUM | 1              | 1                                   |                                                |
|            |                                                    |       |                |                                     |                                                |

FILE NAME = SFILES  
PLOT SCALE = 2.0000 ' / in.  
USER NAME = rileywhite



|            |                  |
|------------|------------------|
| USER NAME  | = rileywhite     |
| PLOT SCALE | = 2.0000 ' / in. |
| PLOT DATE  | = 12/4/2025      |

|          |              |
|----------|--------------|
| DESIGNED | - RW         |
| DRAWN    | - RW         |
| CHECKED  | - YK         |
| DATE     | - 12/05/2025 |

|         |               |
|---------|---------------|
| REVISED | -  02/17/2026 |
| REVISED | -             |
| REVISED | -             |
| REVISED | -             |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 173  
SUMMARY OF QUANTITIES

|        |                         |      |         |
|--------|-------------------------|------|---------|
| SCALE: | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA. |
|--------|-------------------------|------|---------|

|                                                     |                |        |              |           |
|-----------------------------------------------------|----------------|--------|--------------|-----------|
| F.A.P. RTE.                                         | SECTION        | COUNTY | TOTAL SHEETS | SHEET NO. |
| 303                                                 | FAP 0303 22 CR | LAKE   | 58           | 7         |
| CONTRACT NO. 62T82                                  |                |        |              |           |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |        |              |           |

2 REVISED SHEET 2/17/2026

| CODE NO.   | ITEM                                                                    | UNIT   | TOTAL QUANTITY | CONSTR. CODE         | CONSTR. CODE                                |
|------------|-------------------------------------------------------------------------|--------|----------------|----------------------|---------------------------------------------|
|            |                                                                         |        |                | 80% FED<br>20% STATE | 100% NORTH SHORE<br>WATER RECLAMATION DIST. |
|            |                                                                         |        |                | BOX CULVERT          |                                             |
|            |                                                                         |        |                | 0004                 |                                             |
|            |                                                                         |        |                | 049-8300             | 049-8300                                    |
| * 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT                          | L SUM  | 1              | 1                    |                                             |
| * 66901006 | REGULATED SUBSTANCES MONITORING                                         | DAYS   | 30             | 30                   |                                             |
| * 67100100 | MOBILIZATION                                                            | L SUM  | 1              | 1                    |                                             |
| 70107025   | CHANGEABLE MESSAGE SIGN                                                 | CAL DA | 158            | 158                  |                                             |
| 70300150   | SHORT TERM PAVEMENT MARKING REMOVAL                                     | SQ FT  | 5264           | 5264                 |                                             |
| 70307100   | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE           | SQ FT  | 41             | 41                   |                                             |
| 70307120   | TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE                     | FOOT   | 7077           | 7077                 |                                             |
| 70307130   | TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE                     | FOOT   | 91             | 91                   |                                             |
| 70307160   | TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE                    | FOOT   | 369            | 369                  |                                             |
| 70307210   | TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE                    | FOOT   | 155            | 155                  |                                             |
| 70400100   | TEMPORARY CONCRETE BARRIER                                              | FOOT   | 662.5          | 662.5                |                                             |
| 70400200   | RELOCATE TEMPORARY CONCRETE BARRIER                                     | FOOT   | 587.5          | 587.5                |                                             |
| 70600260   | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH   | 2              | 2                    |                                             |
| 70600322   | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3  | EACH   | 2              | 2                    |                                             |

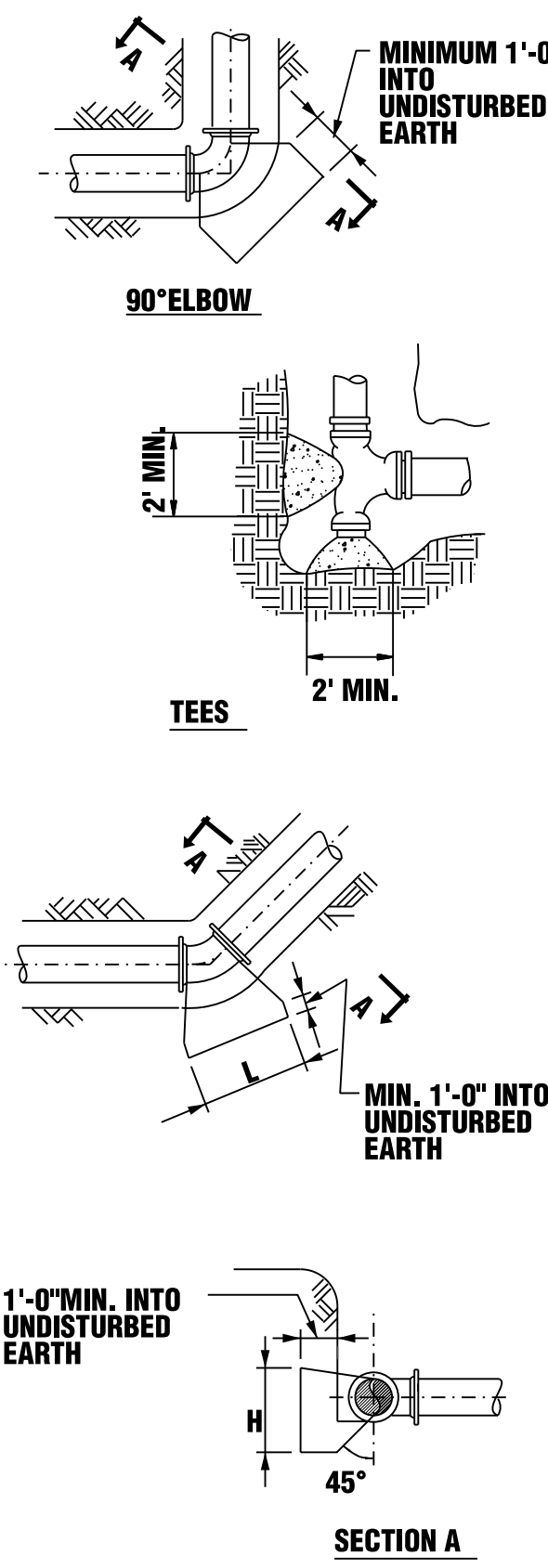
\* = SPECIALTY ITEM







MODEL: X:\Details\_Sheet  
FILE NAME: \\HMGData\Projects\NSWRD - formerly NSSD\8757 - IL Rte 173 F4 Relocation\300 Plans\352 Final Drawings\8757 Plan Sheets.dgn



- NOTES:
1. PROVIDE THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, AND AT POINTS SPECIFIED BY THE ENGINEER.
  2. ALL BLOCKING SHALL BE WITH POURED CLASS S1 (3000 PSI) CONCRETE A MINIMUM OF 12" THICK PLACED AGAINST UNDISTURBED EARTH SURFACE AND FITTING.
  3. DIMENSIONS OF THRUST BLOCKS ARE BASED ON 2000PSF SOIL BEARING CAPACITY, WORKING PRESSURE OF 100 PSIG AND A SAFETY FACTOR OF 1.5.
  4. ALL BLOCKING SHALL BE POURED INTO UNDISTURBED EARTH.
  5. ALL BENDS OR ELBOWS OF 11 1/4° OR GREATER SHALL HAVE THRUST BLOCKING.
  6. IF ADEQUATE UNDISTURBED BEARING AREA CANNOT BE OBTAINED, USE CONCRETE THRUST BLOCKS IN COMBINATION WITH RESTRAINED AND/OR TIED JOINTS.
  7. THRUST BLOCKS SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTINGS WILL BE ACCESSIBLE FOR REPAIRS.

| PIPE SIZE<br>INCHES | DEGREE OF BEND | MINIMUM CONCRETE ANCHOR BLOCK DIMENSIONS- FEET |     |     |     |     |     |                         |     |      |     |      |     |
|---------------------|----------------|------------------------------------------------|-----|-----|-----|-----|-----|-------------------------|-----|------|-----|------|-----|
|                     |                | 75PSI WORKING PRESSURE                         |     |     |     |     |     | 100PSI WORKING PRESSURE |     |      |     |      |     |
|                     |                | L                                              | H   | L   | H   | L   | H   | L                       | H   | L    | H   | L    | H   |
| 6"                  | 90             | 2.5                                            | 1.0 | 2.5 | 1.5 | 2.0 | 2.0 | 2.5                     | 2.0 | 2.5  | 1.0 | 2.0  | 1.5 |
|                     | 45             | 1.5                                            | 1.0 | 2.0 | 1.0 | 2.0 | 1.5 | 2.0                     | 1.5 | 2.0  | 1.0 | 2.0  | 1.5 |
|                     | 22.5           | 1.0                                            | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                     | 1.5 | 1.0  | 1.5 | 1.0  | 1.0 |
|                     | 11.25          | 1.0                                            | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0                     | 1.5 | 1.0  | 1.5 | 1.0  | 1.0 |
|                     | 90             | 2.0                                            | 2.0 | 2.5 | 2.5 | 3.0 | 2.5 | 4.0                     | 2.0 | 4.0  | 2.0 | 4.0  | 2.5 |
| 8"                  | 45             | 2.5                                            | 1.0 | 2.0 | 1.5 | 2.0 | 2.0 | 2.5                     | 2.0 | 2.5  | 2.0 | 2.5  | 2.0 |
|                     | 22.5           | 1.5                                            | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 2.5                     | 1.0 | 2.0  | 1.5 | 2.0  | 1.5 |
|                     | 11.25          | 1.5                                            | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 2.5                     | 1.0 | 2.5  | 1.0 | 2.0  | 1.5 |
|                     | 90             | 3.0                                            | 3.0 | 4.0 | 3.0 | 5.0 | 3.0 | 5.0                     | 4.0 | 5.5  | 4.0 | 5.5  | 4.0 |
|                     | 45             | 2.5                                            | 2.0 | 3.5 | 2.0 | 4.0 | 2.5 | 4.0                     | 2.5 | 4.0  | 2.5 | 4.0  | 3.0 |
| 10"                 | 22.5           | 2.5                                            | 1.0 | 2.5 | 1.5 | 2.5 | 2.0 | 2.5                     | 2.0 | 3.0  | 2.0 | 3.0  | 2.0 |
|                     | 11.25          | 2.5                                            | 1.0 | 2.5 | 1.5 | 2.5 | 2.0 | 2.5                     | 2.0 | 3.0  | 2.0 | 3.0  | 2.0 |
|                     | 90             | 3.0                                            | 3.0 | 4.0 | 3.0 | 5.0 | 3.0 | 5.0                     | 4.0 | 5.5  | 4.0 | 5.5  | 4.0 |
|                     | 45             | 2.5                                            | 2.0 | 3.5 | 2.0 | 4.0 | 2.5 | 4.0                     | 2.5 | 4.0  | 2.5 | 4.0  | 3.0 |
|                     | 22.5           | 2.5                                            | 1.0 | 2.5 | 1.5 | 2.5 | 2.0 | 2.5                     | 2.0 | 3.0  | 2.0 | 3.0  | 2.0 |
| 12"                 | 11.25          | 2.5                                            | 1.0 | 2.5 | 1.5 | 2.5 | 2.0 | 2.5                     | 2.0 | 3.0  | 2.0 | 3.0  | 2.0 |
|                     | 90             | 5.0                                            | 3.5 | 5.5 | 4.0 | 6.0 | 4.5 | 7.5                     | 4.5 | 7.5  | 5.0 | 7.5  | 5.0 |
|                     | 45             | 4.0                                            | 2.5 | 4.0 | 3.0 | 5.0 | 3.0 | 5.0                     | 3.5 | 5.0  | 4.5 | 5.0  | 4.5 |
|                     | 22.5           | 2.5                                            | 2.0 | 3.0 | 2.0 | 3.0 | 2.5 | 3.0                     | 3.0 | 4.0  | 3.0 | 4.0  | 3.0 |
|                     | 11.25          | 2.5                                            | 2.0 | 3.0 | 2.0 | 3.0 | 2.5 | 3.0                     | 3.0 | 4.0  | 3.0 | 4.0  | 3.0 |
| 16"                 | 90             | 5.5                                            | 4.5 | 6.5 | 5.5 | 7.5 | 5.5 | 8.5                     | 6.0 | 9.5  | 6.0 | 9.5  | 6.0 |
|                     | 45             | 4.0                                            | 3.5 | 5.0 | 4.0 | 5.5 | 4.0 | 6.0                     | 4.5 | 7.0  | 4.5 | 7.0  | 4.5 |
|                     | 22.5           | 3.0                                            | 2.5 | 3.5 | 3.0 | 4.0 | 3.0 | 4.5                     | 3.0 | 5.5  | 3.0 | 5.5  | 3.0 |
|                     | 11.25          | 3.0                                            | 2.5 | 3.5 | 3.0 | 4.0 | 3.0 | 4.5                     | 3.0 | 5.5  | 3.0 | 5.5  | 3.0 |
|                     | 90             | 6.5                                            | 5.5 | 8.0 | 6.0 | 9.5 | 6.5 | 11.0                    | 6.5 | 13.0 | 6.5 | 13.0 | 6.5 |
| 20"                 | 45             | 5.0                                            | 4.0 | 5.5 | 5.0 | 7.5 | 4.5 | 7.0                     | 5.5 | 9.0  | 5.0 | 9.0  | 5.0 |
|                     | 22.5           | 3.5                                            | 3.0 | 4.0 | 3.5 | 5.0 | 3.5 | 5.0                     | 4.0 | 6.0  | 4.0 | 6.0  | 4.0 |
|                     | 11.25          | 3.5                                            | 3.0 | 4.0 | 3.5 | 5.0 | 3.5 | 5.0                     | 4.0 | 6.0  | 4.0 | 6.0  | 4.0 |
|                     | 90             | 6.5                                            | 5.5 | 8.0 | 6.0 | 9.5 | 6.5 | 11.0                    | 6.5 | 13.0 | 6.5 | 13.0 | 6.5 |
|                     | 45             | 5.0                                            | 4.0 | 5.5 | 5.0 | 7.5 | 4.5 | 7.0                     | 5.5 | 9.0  | 5.0 | 9.0  | 5.0 |
| 24"                 | 22.5           | 3.5                                            | 3.0 | 4.0 | 3.5 | 5.0 | 3.5 | 5.0                     | 4.0 | 6.0  | 4.0 | 6.0  | 4.0 |
|                     | 11.25          | 3.5                                            | 3.0 | 4.0 | 3.5 | 5.0 | 3.5 | 5.0                     | 4.0 | 6.0  | 4.0 | 6.0  | 4.0 |
|                     | 90             | 6.5                                            | 5.5 | 8.0 | 6.0 | 9.5 | 6.5 | 11.0                    | 6.5 | 13.0 | 6.5 | 13.0 | 6.5 |
|                     | 45             | 5.0                                            | 4.0 | 5.5 | 5.0 | 7.5 | 4.5 | 7.0                     | 5.5 | 9.0  | 5.0 | 9.0  | 5.0 |
|                     | 22.5           | 3.5                                            | 3.0 | 4.0 | 3.5 | 5.0 | 3.5 | 5.0                     | 4.0 | 6.0  | 4.0 | 6.0  | 4.0 |

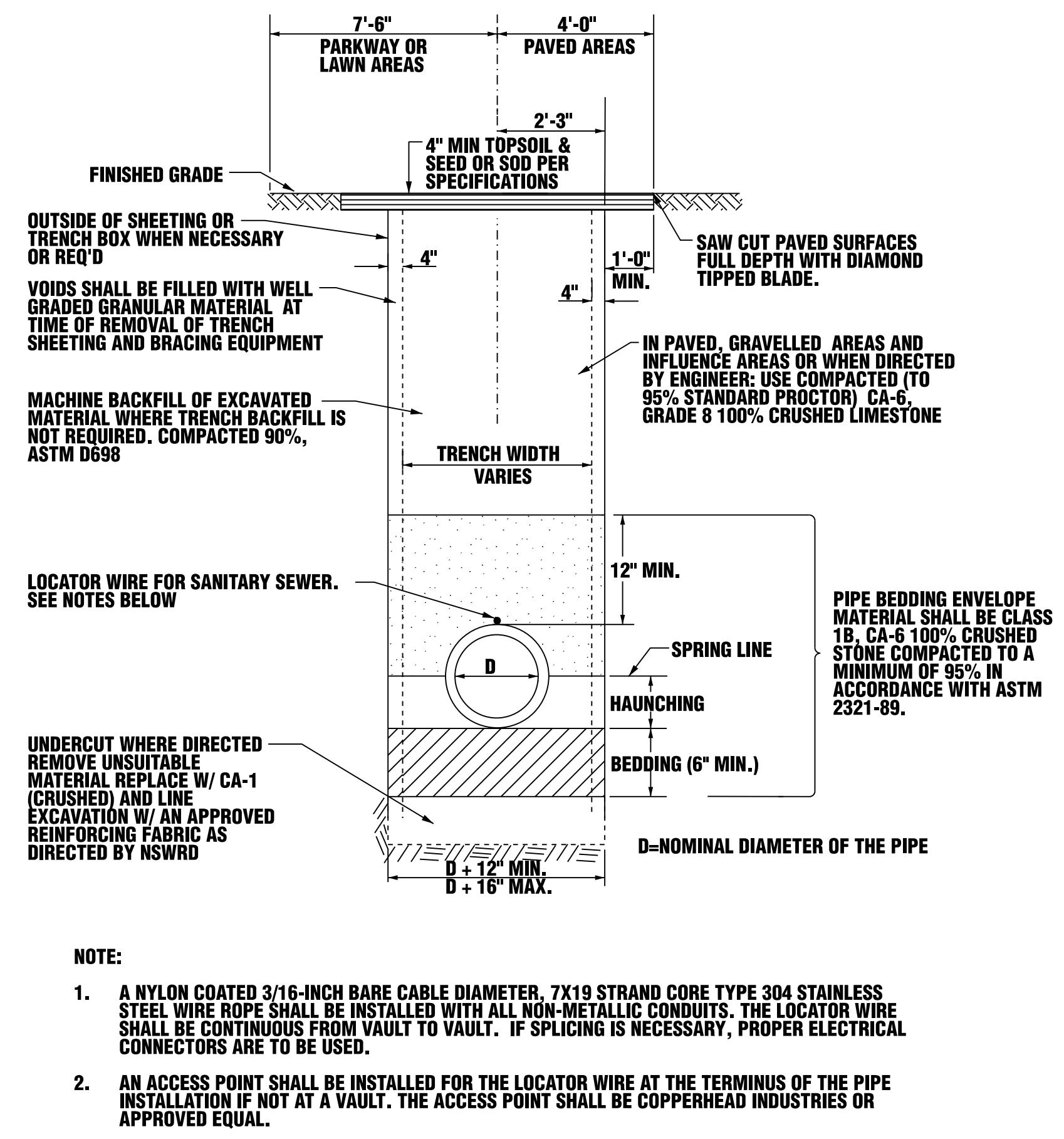
THRUST BLOCK DETAIL

N.T.S.

NORTH SHORE WATER RECLAMATION DISTRICT

| REVISED |             |      |
|---------|-------------|------|
| By      | Description | Date |
|         |             |      |
|         |             |      |
|         |             |      |

STANDARD NO. 507



- NOTE:
1. A NYLON COATED 3/16-INCH BARE CABLE DIAMETER, 7X19 STRAND CORE TYPE 304 STAINLESS STEEL WIRE ROPE SHALL BE INSTALLED WITH ALL NON-METALLIC CONDUITS. THE LOCATOR WIRE SHALL BE CONTINUOUS FROM VAULT TO VAULT. IF SPLICING IS NECESSARY, PROPER ELECTRICAL CONNECTORS ARE TO BE USED.
  2. AN ACCESS POINT SHALL BE INSTALLED FOR THE LOCATOR WIRE AT THE TERMINUS OF THE PIPE INSTALLATION IF NOT AT A VAULT. THE ACCESS POINT SHALL BE COPPERHEAD INDUSTRIES OR APPROVED EQUAL.

TYPICAL TRENCH AND BEDDING DETAIL

N.T.S.

NORTH SHORE WATER RECLAMATION DISTRICT

| REVISED |             |      |
|---------|-------------|------|
| By      | Description | Date |
|         |             |      |
|         |             |      |
|         |             |      |

STANDARD NO. 201

062.073221  
LICENSED  
PROFESSIONAL  
ENGINEER  
STATE OF ILLINOIS  
DERE ANDREW ANDERSON

D.A.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH SHORE WATER RECLAMATION DISTRICT  
CONSTRUCTION DETAILS

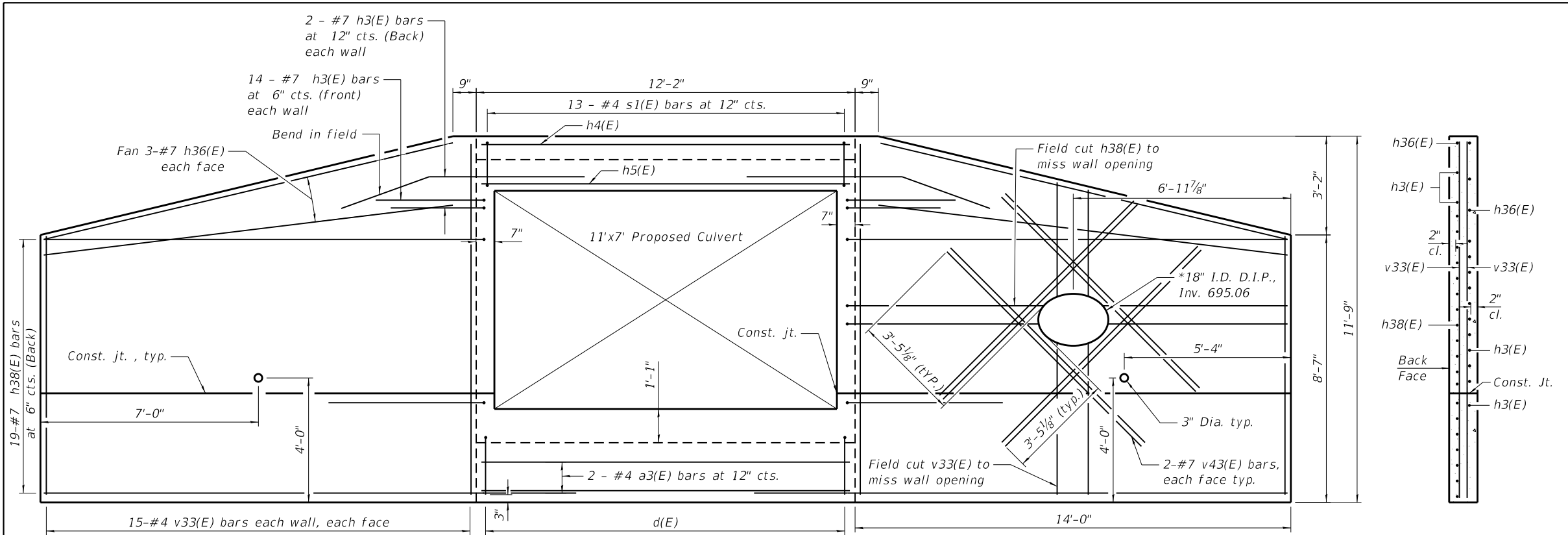
SCALE: SHEET OF SHEETS STA. TO STA.

2 ADDED ENTIRE SHEET 2/17/2026

IL PROF DESIGN FIRM 184.000899

|                       |                  |           |
|-----------------------|------------------|-----------|
| USER NAME = danderson | DESIGNED - DAA   | REVISED - |
| PLOT SCALE =          | DRAWN - DAA      | REVISED - |
| PLOT DATE = 2/13/2026 | CHECKED - CSB    | REVISED - |
|                       | DATE - 2/12/2026 | REVISED - |

| F.A.P. RTE.           | SECTION        | COUNTY           | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|------------------|--------------|-----------|
| 303                   | FAP 0303 22 CR | LAKE             | 58           | 23-B      |
| CONTRACT NO. 62T82    |                |                  |              |           |
| FED. ROAD DIST. NO. 1 | ILLINOIS       | FED. AID PROJECT |              |           |

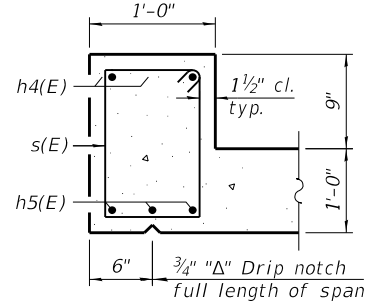
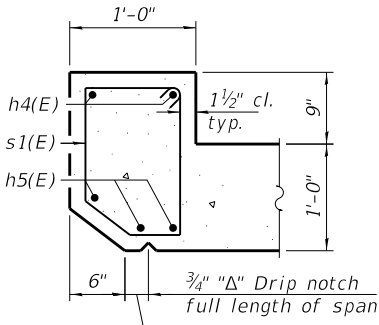
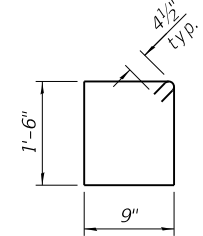
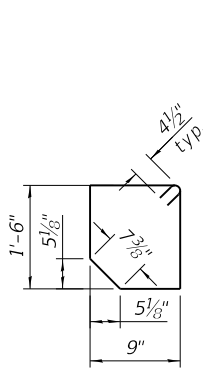
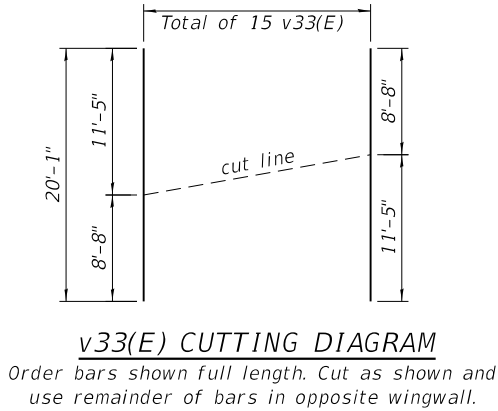
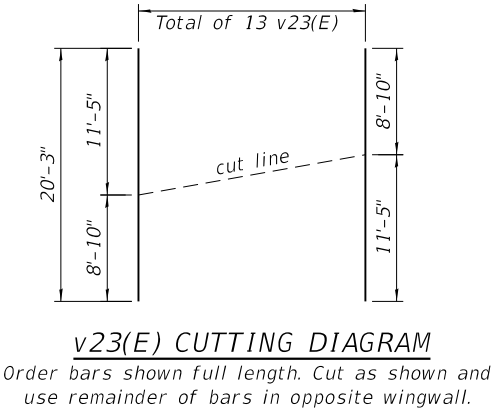


WINGWALL ELEVATION - NORTH END  
Looking South

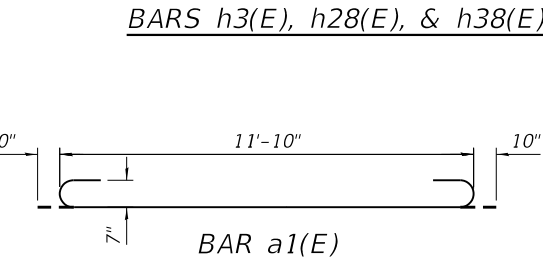
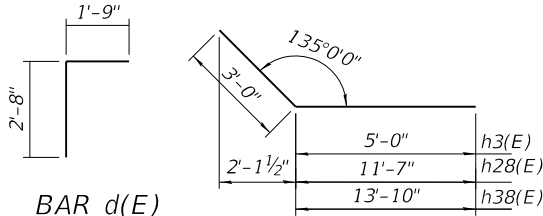
\* The proposed 18" diameter culvert extension location and invert are based on limited survey data of existing pipe culvert. The contractor shall verify the outlet location within the northwest wingwall and notify engineer of record of any required adjustment to the pipe culvert or wingwall details prior to pipe placement and wingwall construction.

SECTION A-A  
See sheet 4 for location of cut

| BILL OF MATERIAL                               |     |         |          |      |         |        |
|------------------------------------------------|-----|---------|----------|------|---------|--------|
| Bar                                            | No. | Stage I | Stage II | Size | Length  | Shape  |
| a1(E)                                          | 212 | 106     | 106      | #7   | 12'-2"  |        |
| a2(E)                                          | 116 | 58      | 58       | #6   | 11'-10" |        |
| a3(E)                                          | 4   | 2       | 2        | #4   | 11'-10" |        |
| d(E)                                           | 26  | 13      | 13       | #4   | 4'-5"   |        |
| h(E)                                           | 52  | 52      | 0        | #6   | 29'-2"  |        |
| h1(E)                                          | 52  | 0       | 52       | #6   | 28'-5"  |        |
| h3(E)                                          | 64  |         |          | #7   | 8'-0"   |        |
| h4(E)                                          | 4   |         |          | #6   | 11'-11" |        |
| h5(E)                                          | 6   |         |          | #7   | 11'-11" |        |
| h12(E)                                         | 16  | 16      |          | #4   | 29'-2"  |        |
| h13(E)                                         | 16  |         | 16       | #4   | 28'-5"  |        |
| h26(E)                                         | 12  |         |          | #6   | 11'-6"  |        |
| h28(E)                                         | 38  |         |          | #7   | 11'-7"  |        |
| h36(E)                                         | 12  |         |          | #6   | 13'-9"  |        |
| h38(E)                                         | 38  |         |          | #7   | 13'-10" |        |
| s(E)                                           | 13  |         |          | #4   | 5'-3"   |        |
| s1(E)                                          | 13  |         |          | #4   | 5'-1"   |        |
| v(E)                                           | 210 | 105     | 105      | #5   | 7'-2"   |        |
| v1(E)                                          | 210 | 105     | 105      | #4   | 5'-0"   |        |
| v23(E)                                         | 26  |         |          | #4   | 19'-10" |        |
| v33(E)                                         | 30  |         |          | #4   | 19'-8"  |        |
| v43(E)                                         | 16  |         |          | #7   | 8'-10"  |        |
| Concrete Box Culverts (Stage I & II)           |     |         |          |      | Cu. Yd. | 95.5   |
| Reinforcement Bars Epoxy Coated (Stage I & II) |     |         |          |      | Pound   | 19,920 |



SECTION THRU HEADWALL



REVISD SHEET 2/6/2026





## SOIL BORING LOG

Page 1 of 1

Date 4/23/24

ROUTE IL173 Rosecrans Road DESCRIPTION Culvert Boring LOGGED BY DF

SECTION FAP 0303 22 CR LOCATION IL 173 Over Unnamed Ditch, 0.5 mi East of IL 131(Green Bay Rd)

COUNTY Lake DRILLING RIG GEOPROBE HSA HAMMER TYPE HAMMER EFF (%) AUTO 101.6

| STRUCT. NO.                                                                        | 049-0522 | D    | B     | U     | M   | Surface Water Elev.                                                                            | N/A    | ft | D    | B     | U     | M   |
|------------------------------------------------------------------------------------|----------|------|-------|-------|-----|------------------------------------------------------------------------------------------------|--------|----|------|-------|-------|-----|
| Station                                                                            | N/A      | E    | L     | C     | O   | Stream Bed Elev.                                                                               | N/A    | ft | E    | L     | C     | O   |
| BORING NO.                                                                         | CB-01    | P    | O     | S     | I   | Groundwater Elev.:                                                                             |        |    | P    | O     | S     | I   |
| Station                                                                            | N/A      | T    | W     | Qu    | T   | First Encounter                                                                                | 680.5  | ft | H    | S     | Qu    | T   |
| Offset                                                                             |          |      |       |       |     | Upon Completion                                                                                | N/A    | ft |      |       |       |     |
| Ground Surface Elev.                                                               | 701.48   | (ft) | (/6") | (tsf) | (%) | After N/A Hrs.                                                                                 | N/A    | ft | (ft) | (/6") | (tsf) | (%) |
| 16.0 inches of Asphalt                                                             |          |      |       |       |     | SILTY CLAY (CL-ML), trace gravel, trace sand, Stiff to Hard, Brown and Gray, Moist (continued) |        |    |      |       |       |     |
| 700.15                                                                             |          |      |       |       |     |                                                                                                |        |    | 7    |       |       |     |
| 7.0 inches of Aggregate Base                                                       | 699.56   | 12   |       |       |     |                                                                                                |        |    | 10   | 5.0   | 17    |     |
| FILL: SILTY CLAY, trace gravel, trace sand, trace organics, Brown to Black, Moist  |          | 7    |       | 3     |     |                                                                                                |        |    | 13   | B     |       |     |
|                                                                                    |          | 4    |       |       |     |                                                                                                |        |    |      |       |       |     |
|                                                                                    |          | 5    |       |       |     | SILT (ML), occasional sand seams, Medium Dense, Gray, Moist                                    | 677.98 |    | 10   |       |       |     |
|                                                                                    |          | 5    | 1.0   | 30    |     |                                                                                                |        |    | 9    |       | 14    |     |
|                                                                                    |          | 4    | B     |       |     |                                                                                                |        |    | 14   |       |       |     |
|                                                                                    |          | -5   |       |       |     |                                                                                                |        |    | -25  |       |       |     |
|                                                                                    |          | 1    |       |       |     | SILTY CLAY (CL-ML), trace gravel, occasional silt seams, Very Stiff to Hard, Dark Gray, Moist  | 675.48 |    | 3    |       |       |     |
|                                                                                    |          | 1    | 1.0   | 21    |     |                                                                                                |        |    | 6    | 2.1   | 14    |     |
|                                                                                    |          | 1    | B     |       |     |                                                                                                |        |    | 6    | B     |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
| 692.98                                                                             |          | 2    |       |       |     |                                                                                                |        |    | 3    |       |       |     |
| SANDY SILT (MLS), trace gravel, Very Loose, Gray, Moist                            |          | 1    |       | 18    |     |                                                                                                |        |    | 7    | 3.3   | 19    |     |
|                                                                                    |          | 2    |       |       |     |                                                                                                |        |    | 11   | B     |       |     |
|                                                                                    |          | -10  |       |       |     |                                                                                                |        |    | -30  |       |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
| 690.48                                                                             |          | 4    |       |       |     |                                                                                                |        |    | 7    |       |       |     |
| SILTY CLAY (CL-ML), trace gravel, trace sand, Stiff to Hard, Brown and Gray, Moist |          | 6    | 6.7   | 14    |     |                                                                                                |        |    | 8    | 5.0   | 20    |     |
|                                                                                    |          | 7    | B     |       |     |                                                                                                |        |    | 12   | B     |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
|                                                                                    |          | 3    |       |       |     | Pushed rock at 33.5 feet                                                                       |        |    | 5    |       |       |     |
|                                                                                    |          | 6    | 4.2   | 22    |     |                                                                                                |        |    | 7    | 3.8   | 20    |     |
|                                                                                    |          | 7    | B     |       |     |                                                                                                |        |    | 48   | B     |       |     |
|                                                                                    |          | -15  |       |       |     |                                                                                                |        |    | -35  |       |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
|                                                                                    |          | 4    |       |       |     | Pushed rock at 36.0 feet                                                                       |        |    | 50/4 |       |       |     |
|                                                                                    |          | 5    | 1.7   | 14    |     |                                                                                                |        |    |      | 2.0   | 12    |     |
|                                                                                    |          | 7    | B     |       |     |                                                                                                |        |    |      | P     |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
|                                                                                    |          |      |       |       |     |                                                                                                |        |    |      |       |       |     |
|                                                                                    |          | 3    |       |       |     |                                                                                                |        |    | 34   |       |       |     |
|                                                                                    |          | 4    | 1.7   | 14    |     |                                                                                                |        |    | 10   | 3.1   | 22    |     |
|                                                                                    |          | 7    | B     |       |     |                                                                                                |        |    | 13   | B     |       |     |
|                                                                                    |          | -20  |       |       |     |                                                                                                |        |    | -40  |       |       |     |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



## SOIL BORING LOG

Page 1 of 1

Date 4/23/24

ROUTE IL173 Rosecrans Road DESCRIPTION Culvert Boring LOGGED BY DF

SECTION FAP 0303 22 CR LOCATION IL 173 Over Unnamed Ditch, 0.5 mi East of IL 131(Green Bay Rd)

COUNTY Lake DRILLING RIG GEOPROBE HSA HAMMER TYPE HAMMER EFF (%) AUTO 101.6

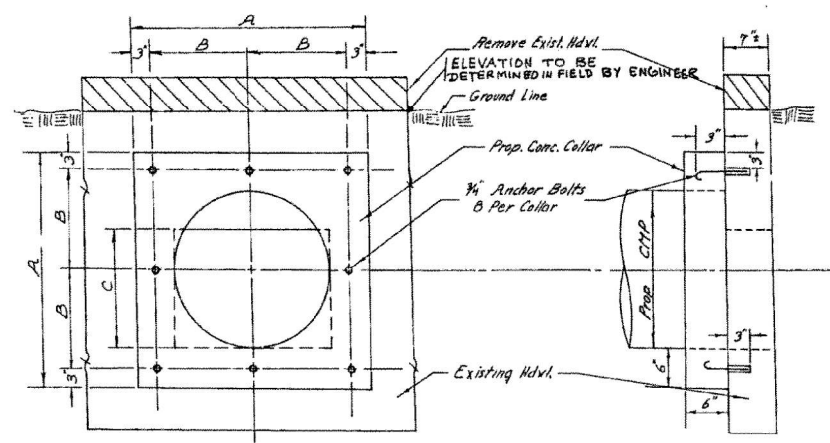
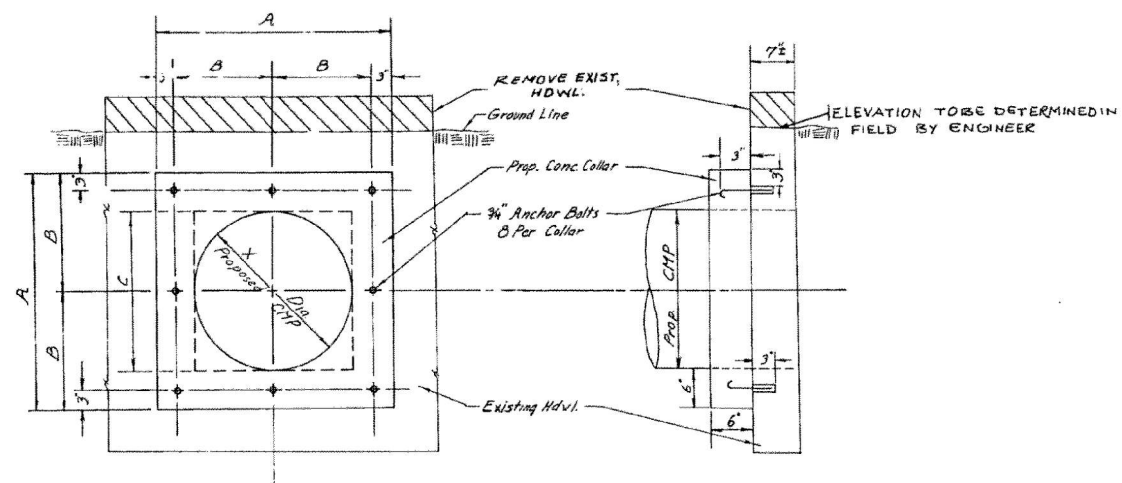
| STRUCT. NO.                                                                       | 049-0522 | D    | B     | U     | M   | Surface Water Elev.                                                         | N/A    | ft | D    | B     | U     | M   |
|-----------------------------------------------------------------------------------|----------|------|-------|-------|-----|-----------------------------------------------------------------------------|--------|----|------|-------|-------|-----|
| Station                                                                           | N/A      | E    | L     | C     | O   | Stream Bed Elev.                                                            | N/A    | ft | E    | L     | C     | O   |
| BORING NO.                                                                        | CB-02    | P    | O     | S     | I   | Groundwater Elev.:                                                          |        |    | P    | O     | S     | I   |
| Station                                                                           | N/A      | T    | W     | Qu    | T   | First Encounter                                                             | 680.6  | ft | H    | S     | Qu    | T   |
| Offset                                                                            |          |      |       |       |     | Upon Completion                                                             | N/A    | ft |      |       |       |     |
| Ground Surface Elev.                                                              | 701.61   | (ft) | (/6") | (tsf) | (%) | After N/A Hrs.                                                              | N/A    | ft | (ft) | (/6") | (tsf) | (%) |
| 16.0 inches of Asphalt                                                            |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
| 700.28                                                                            |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
| 5.0 inches of Aggregate Base                                                      | 699.86   | 4    |       |       |     | SILT (ML), occasional sand seams, Loose to Medium Dense, Gray, Moist        | 680.61 |    | 3    |       |       |     |
| FILL: SILTY CLAY, trace gravel, trace sand, trace organics, Brown to Black, Moist |          | 4    |       | 15    |     |                                                                             |        |    | 3    |       | 15    |     |
|                                                                                   |          | 4    | 2.0   |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 4    | P     |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 2    |       |       |     |                                                                             |        |    | 2    |       |       |     |
|                                                                                   |          | 1    | 1.0   | 20    |     |                                                                             |        |    | 5    |       | 17    |     |
|                                                                                   |          | 2    | B     |       |     |                                                                             |        |    | 7    |       |       |     |
|                                                                                   |          | -5   |       |       |     |                                                                             |        |    | -25  |       |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
| 695.61                                                                            |          | WH   |       |       |     | SILTY CLAY (CL-ML), trace gravel, Very Stiff, Gray, Moist                   | 675.61 |    | 5    |       |       |     |
| SILTY CLAY (CL-ML), trace gravel, Stiff to Hard, Brown and Gray, Moist            |          | 1    | 1.0   | 24    |     |                                                                             |        |    | 6    | 2.1   | 15    |     |
|                                                                                   |          | 2    | B     |       |     |                                                                             |        |    | 6    | B     |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 1    |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 1    | 2.1   | 22    |     | SANDY SILT (MLS), occasional clay seams, Medium Dense, Gray, Moist          | 673.11 |    | 7    |       |       |     |
|                                                                                   |          | 2    | B     |       |     |                                                                             |        |    | 8    |       | 12    |     |
|                                                                                   |          | -10  |       |       |     |                                                                             |        |    | 8    |       |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 3    |       |       |     |                                                                             |        |    | 3    |       |       |     |
|                                                                                   |          | 5    | 3.1   | 21    |     |                                                                             |        |    | 5    |       | 19    |     |
|                                                                                   |          | 8    | B     |       |     |                                                                             |        |    | 5    |       |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 2    |       |       |     | SILTY CLAY (CL-ML), occasional silt seams, Very Stiff, Brown to Gray, Moist | 668.11 |    | 5    |       |       |     |
|                                                                                   |          | 2    | 1.0   | 15    |     |                                                                             |        |    | 6    | 2.1   | 16    |     |
|                                                                                   |          | 3    | B     |       |     |                                                                             |        |    | 6    | B     |       |     |
|                                                                                   |          | -15  |       |       |     |                                                                             |        |    | -35  |       |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 3    |       |       |     |                                                                             |        |    | 4    |       |       |     |
|                                                                                   |          | 5    | 2.5   | 13    |     |                                                                             |        |    | 9    | 2.5   | 17    |     |
|                                                                                   |          | 8    | B     |       |     |                                                                             |        |    | 10   | B     |       |     |
|                                                                                   |          |      |       |       |     |                                                                             |        |    |      |       |       |     |
|                                                                                   |          | 3    |       |       |     |                                                                             |        |    | 3    |       |       |     |
|                                                                                   |          | 5    | 4.2   | 18    |     |                                                                             |        |    | 5    | 3.1   | 16    |     |
|                                                                                   |          | 8    | B     |       |     |                                                                             |        |    | 9    | B     |       |     |
|                                                                                   |          | -20  |       |       |     |                                                                             |        |    | -40  |       |       |     |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

1 REVISED SHEET 2/6/2026

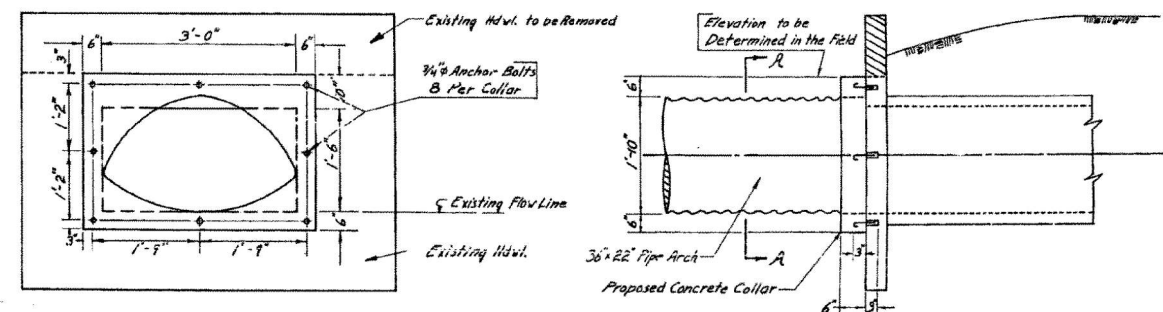
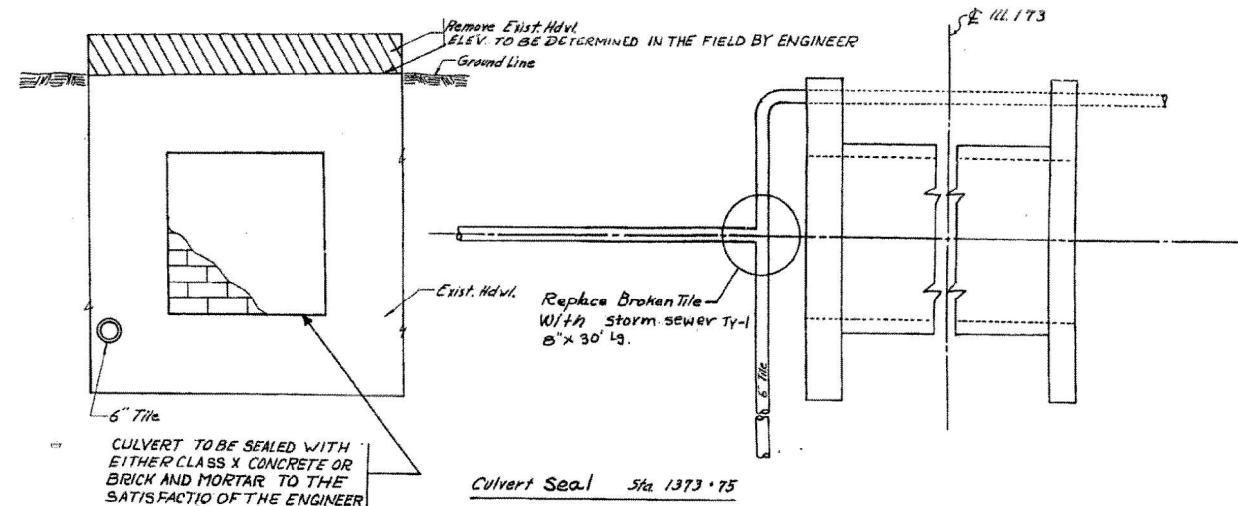
FOR INFORMATION ONLY



| Dimensions & Quantities for Proposed Concrete Collars |       |       |       |                   |
|-------------------------------------------------------|-------|-------|-------|-------------------|
| Collar                                                |       |       |       |                   |
| Dia. of CMP                                           | A     | B     | C     | Cl. X Conc - Each |
| 24"                                                   | 3'-0" | 1'-3" | 2'-0" | 0.109 cy.         |
| 24"                                                   | 3'-0" | 1'-3" | 1'-6" | 0.109 cy.         |

EXPANSION BOLTS SHALL CONSIST OF:  
SELF-DRILLING EXPANSION SHIELDS  
AND 3/8\"/>

DETAIL OF PROPOSED CONCRETE COLLARS FOR EXTENSION  
OF EXISTING CULVERTS WITH PROPOSED CMP'S



Note: Class X Concrete - 0.120 cy.  
Each Collar

Detail For Rectangular Box Culvert Extension

EXPANSION BOLTS SHALL CONSIST OF:  
SELF-DRILLING EXPANSION SHIELDS  
AND 3/8\"/>

DETAIL  
CULVERT EXTENSION