FOR INDEX OF SHEETS, SEE SHEET NO. 2 04-28-2023 LETTING ITEM 007 FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

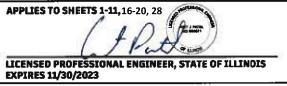
LAKE 28 1 FAP 0535 HW 22 ILLINOIS CONTRACT NO. 62T98

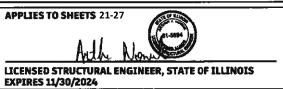
ILLINOIS ROUTE 60 (IL-60)

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL

POSTED SPEED: 55 MPH

ADT: 17600 (2021)









MUNICIPALITIES: VILLAGE OF ROUND LAKE



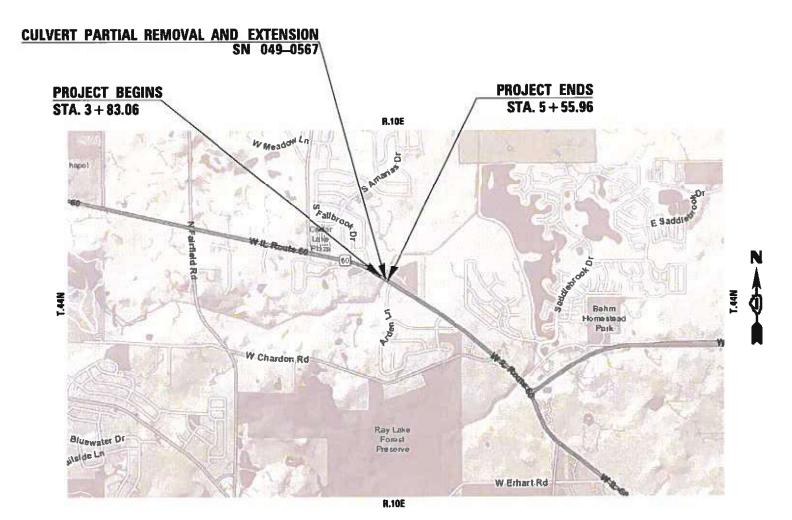
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

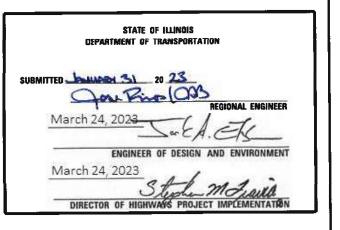
PROPOSED HIGHWAY PLANS

FAP ROUTE 0535: IL ROUTE 60 AT DITCH W OF PETERSON ROAD **SECTION FAP 0535 22 HW CULVERT PARTIAL REMOVAL AND EXTENSION** LAKE COUNTY

C-91-328-22







PROJECT ENGINEER: PRAVEEN KAINI, PE (847)-705-4237 PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056

VILLAGE OF ROUND LAKE GROSS LENGTH = 172.90 FT. = 0.033 MILE NET LENGTH = 165.90 FT. = 0.031 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 62T98

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INDEX OF SHEETS

- 1 COVER SHEET
 2 INDEX OF SHEETS AND HIGHWAY STANDARDS
 3 GENERAL NOTES
- 4-7 SUMMARY OF QUANTITIES
- 8 ALIGNMENT, TIES, AND BENCHMARKS
- TYPICAL SECTIONS
- 10 REMOVAL AND PROPOSED ROADWAY PLANS
- 11 DETOUR PLAN
- GEOTECHINCAL SOIL BORINGS
- 13-15 EROSION AND SEDIMENT CONTROL AND LANDSCAPING PLAN
- 16-20 CROSS SECTIONS
- 21-27 STRUCTURAL PLANS (SN 049-0567)
- 28 TC-21 DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

IDOT HIGHWAY STANDARDS

| 000001-08 | 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

515001-04 NAME PLATE FOR BRIDGES

630001-12 STEEL PLATE BEAM GUARDRAIL

630301-09 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY

701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE

701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

701901-08 TRAFFIC CONTROL DEVICES
725001-01 OBJECT AND TERMINAL MARKERS
782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

Bowman 10 S. LaSalle Street. Suite 2110 Chicago, Illinois 80606 312-514-0360

| | USER NAME = kmaus | DESIGNED - | KMM | REVISED - |
|----|---------------------------|------------|------------|-----------|
| 10 | | DRAWN - | KMM | REVISED - |
| | PLOT SCALE = 1.0000 / in. | CHECKED - | AP | REVISED - |
| | PLOT DATE = 02/03/2023 | DATE - | 02/03/2023 | REVISED - |

| IN | DEX OF S | HEETS A | ND HIG | HWAY ST | ANDARDS | F.A.P. RTE | SECTION |
|-------------|----------|---------|----------|---------|--------------|---------------|-------------|
| II IIINO | IS ROUTE | 60 AT D | ITCH W | OF PFT | ERSON ROAD | 0535 | FAP 0535 22 |
| ILLINO | IO HOUTE | 00 A. D | 11011 11 | 01 121 | LIIOON IIOAD | | |
| SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | | ILLI |

GENERAL NOTES

- 1. 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 UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, VILLAGE OF ROUND LAKE AND LAKE COUNTY.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ALL PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 6 DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS
- 7. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS. IF NO EDITION IS INDICATED, THAN IT SHOULD BE INTERPRETED TO MEAN THE LATEST EDITION.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.
- 9. 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.
- 10. CONTRACTOR SHALL SUBMIT A COFFERDAM PLAN TO THE ENGINEER PRIOR TO WORK FOR APPROVAL PER SSRBC.
- 11. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 12. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 13. PRIOR TO DETOUR IMPLEMENTATION PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TO INFORM THE TRAVELING PUBLIC 2 WEEKS BEFORE IMPLEMENTATION OF DETOUR AND MAINTAINED 1 WEEK INTO
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- 15. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- 16. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 17. 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.
- 18. THE EXISTING DITCHES SHALL BE CONFIRMED FOR POSITIVE DRAINAGE FLOW TO THE CULVERT AREA.
- 19. DETOUR SIGNING SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITY. ANY DAMAGED SIGNS SHALL BE REPLACED IMMEDIATELY OR AS DIRECTED BY THE ENGINEER. ANY NECESSARY TEMPORARY TRAFFIC SIGNAL TIMING AT SIGNALIZED INTERSECTION ALONG THE DETOUR ROUTE SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER

COMMITMENTS

NONE

- 20. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWER, WATER MAIN, SANITARY SEWER AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PER ARTICLES 105.07 AND 107.31 OF THE STANDARD SPECIFICATIONS. WHEN REQUIRED, LOCATING UTILITIES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPLORATION TRENCH, SPECIAL
- 21. THE CONTRACTOR SHALL CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO WEEKS PRIOR TO BEGINNING LANDSCAPE
- 22. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT ROADWAY, ADJACENT PROPERTIES, AND WATER COURSES AS PER SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 23. DE-ENERGIZING COMED'S DISTRIBUTION LINES (?34,000 VOLTS) OR TRANSMISSION LINES (>34,000 VOLTS) MAY BE NECESSARY IN ORDER TO ACCOMMODATE CONTRACTOR'S EQUIPMENT. COSTS MAY BE INVOLVED. CALL 1 (800) EDISON1
- 24. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE CULVERT WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, CULVERTS SHALL BE FREE OF DIRT AND DEBRIS.
- 25. ANY 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
- 26 THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENTS 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

Bowman Chicago, Illinois 60 312-614-0360

JSER NAME = kmaus DESIGNED -KMM REVISED DRAWN KMM REVISED HECKED REVISED LOT DATE = 02/03/2023 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES ILLINOIS ROUTE 60 AT DITCH W OF PETERSON ROAD SHEET 1 OF 1 SHEETS STA.

SECTION COUNTY 0535 FAP 0535 22 HW LAKE 28 CONTRACT NO. 62T98

| | | | | I | 11 0002 | |
|----------|---|---------|----------|-------------|---------|---|
| | | | URBAN | 100% STATE | | |
| 6655 | | 1 | TOTA: | BRIDGE | | |
| CODE | ITEM | UNIT | TOTAL | 004 | | |
| NO. | 1120 | ONT | QUANTITY | SN 049-0567 | | |
| | | | | | | |
| 20200100 | EARTH EXCAVATION | CU YD | 22 | 22 | | |
| | | | | | | |
| | | | | | | |
| 20300100 | CHANNEL EXCAVATION | CU YD | 25 | 25 | | |
| | | | | | | - |
| | | | | 1 | | |
| 20400800 | FURNISHED EXCAVATION | CU YD | 22 | 22 | | |
| | | | | | | |
| | | | | | | |
| 20700220 | POROUS GRANULAR EMBANKMENT | CU YD | 85 | 85 | | |
| | | | | | | |
| 21001005 | GEOTECHNICAL FARRIC FOR CROUND STARL LIZATION | 66.17 | 2.2 | 22 | | |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 23 | 23 | | |
| | | | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | CO VD | F12 | 512 | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 512 | 512 | | |
| | | | | | | |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.06 | 0.06 | | |
| 23000210 | SEEDING, CLASS ZA | ACKE | 0.00 | 0.00 | | |
| | | | | | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 9.0 | 9.0 | | - |
| 23000400 | NITHOGEN TENTETZEN NOTKTENT | TOONS | 3.0 | 3.0 | | - |
| | | | | | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 9.0 | 9.0 | | |
| 2300000 | TOTASSION TERTIFIZER NOTRIENT | TOONE | 3.0 | 3.0 | | |
| | | | | | | |
| 25100115 | MULCH, METHOD 2 | ACRE | 0.10 | 0.10 | | |
| 25100115 | PIOLETT, PIETTION 2 | ACITE | 0.10 | 0.10 | | |
| | | | | | | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 512.0 | 512.0 | | |
| 23100030 | ENOSTON CONTROL BEANCET | 1 30 10 | 312.0 | 312.0 | | |
| | | | | | | |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 9.0 | 9.0 | | |
| | | | 0 | | | |
| | | | | | | |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 60 | 60 | | |
| | | 1 | | | | |
| | | | | | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 195 | 195 | | |
| | | | | | | |
| | | | | | | |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 21 | 21 | | |
| | | | | | | |

CONSTRUCTION CODE

| | | | CONSTRUCTION CODE | | | |
|----------|--|-------|-------------------|-------------|--|---|
| | | | URBAN | 100% STATE | | |
| CODE | | | TOTAL | BR I DGE | | |
| NO. | ITEM | UNIT | QUANTITY | 004 | | |
| | | | Q 0 | SN 049-0567 | | |
| 28200200 | FILTER FABRIC | SQ YD | 41 | 41 | | |
| | | | | | | _ |
| 30300112 | AGGREGATE SUBGRADE IMPROVEMENT 12" | SQ YD | 16 | 16 | | _ |
| | | | | | | _ |
| 44004250 | PÄVED SHOULDER REMOVÄL | SQ YD | 16 | 16 | | _ |
| | | | | | | |
| 48101500 | AGGREGATE SHOULDERS, TYPE B 6" | SQ YD | 130 | 130 | | _ |
| | | | | | | _ |
| 48203037 | HOT-MIX ASPHALT SHOULDERS, 10" | SQ YD | 16 | 16 | | _ |
| | | | | | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 12.0 | 12.0 | | |
| | | | | | | |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 86 | 86 | | |
| | | | | | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 4,950 | 4,950 | | |
| | | | | | | |
| 50901760 | PIPE HANDRAIL | FOOT | 12.5 | 12.5 | | |
| | | | | | | |
| 51500100 | NAME PLATES | EACH | 1 | 1 | | |
| | | | | | | |
| 52200020 | TEMPORARY SOIL RETENTION SYSTEM | SQ FT | 398 | 398 | | |
| | | | | | | |
| 54002040 | EXPANSION BOLTS 3/4 INCH X 6 INCH | EACH | 32 | 32 | | |
| | | | | | | |
| 54003000 | CONCRETE BOX CULVERTS | CU YD | 14.8 | 14.8 | | |
| | | | | | | |
| 60905305 | BOX CULVERTS TO BE CLEANED | FOOT | 69.0 | 69.0 | | |
| | | | | | | |
| 63000001 | STEEL PLÂTE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 25 | 25 | | |

| | USER NAME = kmaus | DESIGNED - KMM | REVISED - |
|---|----------------------------|-------------------|-----------|
| 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60606 | | DRÁWN - KMM | REVISED - |
| Bowman Chicago, Illinois 60608 312-614-0360 www bowman.com | PLOT SCALE = 1.0000 ' / in | CHECKED - AP | REVISED - |
| | PLOT DATE = 02/03/2023 | DATE - 02/03/2023 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES ILLINOIS ROUTE 60 AT DITCH W OF PETERSON ROAD SCALE NONE SHEET 2 OF 4 SHEETS, STA.

F.A.P. SECTION

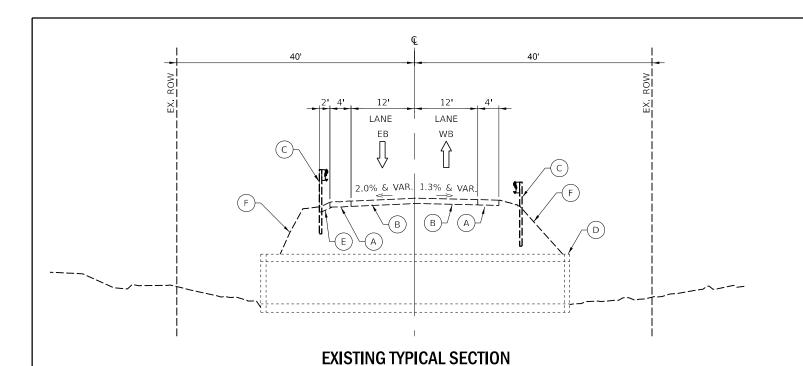
0535 FAP 0535 22 HW

| | | CONSTRUCTION CODE | | | | |
|----------|--|-------------------|----------|-------------|--|--|
| | | | URBAN | 100% STATE | | |
| CODE | | | TOTAL | BRIDGE | | |
| NO. | ITEM | UNIT | QUANTITY | 004 | | |
| | | | 43711111 | SN 049-0567 | | |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 | 4 | | |
| | | | | | | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 201 | 201 | | |
| 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 135 | 135 | | |
| 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 1 | 1 | | |
| 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN | L SUM | 1 | 1 | | |
| | | | _ | | | |
| 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT | L SUM | 1 | 1 | | |
| | | | | | | |
| 66901006 | REGULATED SUBSTANCES MONITORING | CAL DA | 15 | 15 | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70107025 | CHANGEABLE MESSAGE SIGN | CAL DA | 63 | 63 | | |
| | | | | | | |
| 72501000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 2 | 2 | | |
| 78200005 | GUARDRAIL REFLECTORS, TYPE A | EACH | 6 | 6 | | |
| | | | | | | |
| X0900075 | COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) | EACH | 2.0 | 2.0 | | |
| X2501800 | SEEDING, CLASS 4 (MODIFIED) | ACRE | 0.04 | 0.04 | | |
| | | | | | | |
| X2501820 | SEEDING, CLASS 5 (MODIFIED) | ACRE | 0.04 | 0.04 | | |
| 1 ' | | | | | | |

| | USER NAME = kmaus | DESIGNED | - | KMM | REVISED - | |
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| 10 | | DRAWN | - | KMM | REVISED - | |
| | PLOT SCALE = 1.0000 '/ in. | CHECKED | - | AP | REVISED - | |
| | PLOT DATE = 02/03/2023 | DATE | - | 02/03/2023 | REVISED - | |

| | | CONSTRUCTION CODE | | | |
|----------|--|-------------------|----------|-------------|--|
| | | | URBAN | 100% STATE | |
| CODE | | | TOTAL | BRIDGE | |
| NO. | ITEM | UNIT | QUANTITY | 004 | |
| 1101 | | | | SN 049-0567 | |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 1 | |
| | | | | | |
| Z0012754 | STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT | 24.0 | 24.0 | |
| | | | | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | |
| Z0015500 | DEBRIS REMOVAL | L SUM | 1 | 1 | |
| | | | | | |
| Z0054400 | ROCK FILL | CU YD | 7.1 | 7.1 | |
| | | | | | |
| Z0064800 | SELECTIVE CLEARING | UNIT | 1 | 1 | |
| 70072510 | TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 11 | 11 | |
| 200/3310 | TEMPORARY TRAFFIC SIGNAL TIMING | EACH | 11 | 11 | |
| | | | | | |
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| | | USER NAME = kmaus | DESIGNED - | KMM | REVISED - |
|------|---|---------------------------|------------|------------|-----------|
| an | 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60606 | | DRAWN - | KMM | REVISED - |
| ai i | 312-614-0360 www.bowman.com | PLOT SCALE = 1.0000 / in. | CHECKED - | AP | REVISED - |
| | | PLOT DATE = 02/03/2023 | DATE - | 02/03/2023 | REVISED - |



PROPOSED TYPICAL SECTION

LANE

LANE

WB

STA 4+64.21 TO STA 4+71.38

2.0% & VAR. 1.3% & VAR.

EXISTING LEGEND

- A EXISTING HOT-MIX ASPHALT (HMA) SHOULDERS
- B EXISTING HOT-MIX ASPHALT (HMA) SURFACE
- © EXISTING STEEL PLATE BEAM GUARDRAIL. TYPE A
- (E) EXISTING CULVERT (SEE STRUCTURAL PLANS FOR DETAILS)
 (E) EXISTING AGGREGATE SHOULDERS, TYPE B
- F EXISTING TOPSOIL

PROPOSED LEGEND

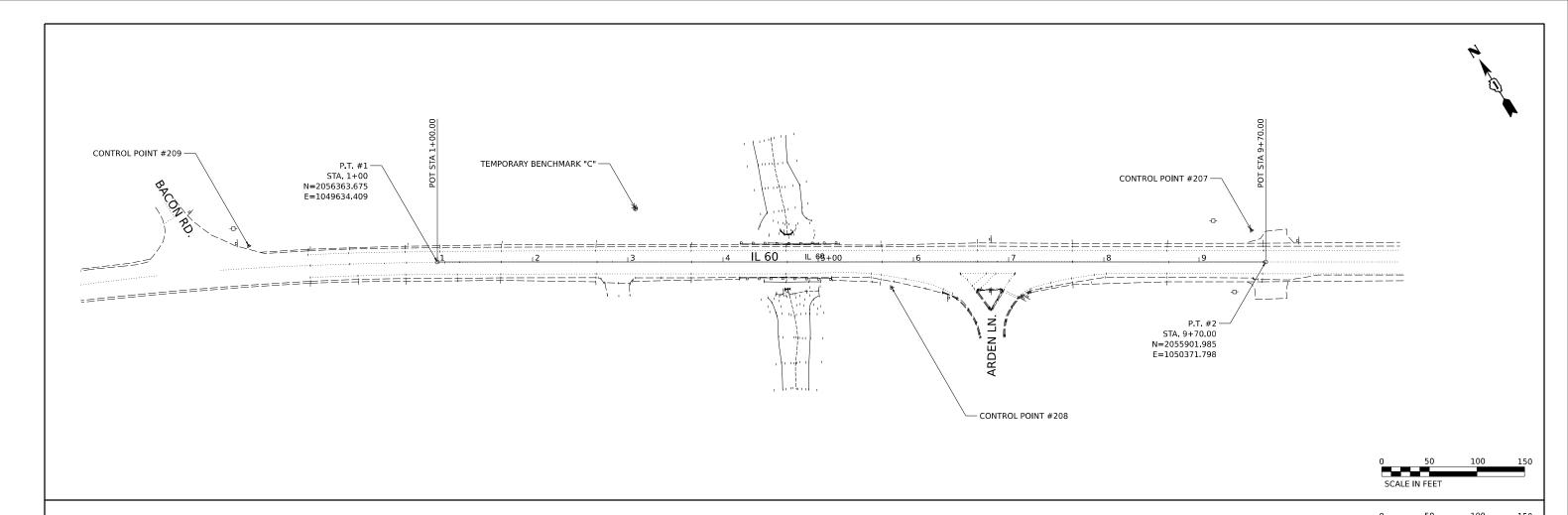
- (A) EXISTING HOT-MIX ASPHALT (HMA) SHOULDERS
- B EXISTING HOT-MIX ASPHALT (HMA) SURFACE
- PROPOSED STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- D EXISTING CULVERT (SEE STRUCTURAL PLANS FOR DETAILS)
- (E) PROPOSED CULVERT EXTENSION (SEE STRUCTURAL PLANS FOR DETAILS)
- PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- © PROPOSED HOT-MIX ASPHALT SHOULDERS, 10"
- PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PROPOSED FINISHED GRADE (SEE LANDSCAPING PLANS FOR DETAILS)

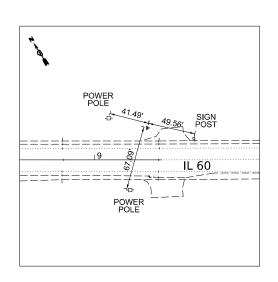
| HMA MIX REQUIREMENTS TABL | LE | | | | |
|--|---------------------------------|------------------|--|--|--|
| MIXTURE TYPE | AIR VOIDS @ NDES | | | | |
| HOT-MIX ASPHALT SHOULDERS, 10" | | | | | |
| 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 | 4% @ 70 GYR. | QC / QA | | | |
| 8" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | 4% @ 70 GYR. | QC/QA | | | |
| QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL F | OR PERFORMANCE (QCP); PAY FOR P | ERFORMANCE (PFP) | | | |

NOTES:

- 1. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECFICATIONS.
- 2. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

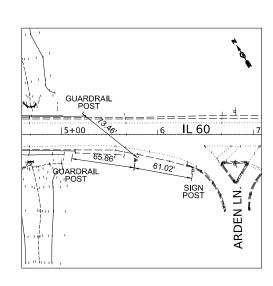
| je d | | USER NAME = Kmaus | DESIGNED - KMM | REVISED - | | | | TYPIC | AL SECT | rions | | RTF | SECTION | COUNTY SHEETS N | NO. |
|------|---|---------------------------|-------------------|-----------|------------------------------|--------|----------------|-----------|---------|----------|------------|------|-----------------|-------------------|-----|
| ME D | 10 S. LaSalle Street, Suite 2110 Chicago, Illinois 60606 | | DRAWN - KMM | REVISED - | STATE OF ILLINOIS | | HILIMOID DOUTE | | | | TROOM BOAR | 0535 | FAP 0535 22 HW | LAKE 28 | 8 |
| E N | DOWITIAN 312-614-0360 www.bowman.com | PLOT SCALE = 10.000 '/in. | CHECKED - AP | REVISED - | DEPARTMENT OF TRANSPORTATION | | ILLINOIS ROUTE | : bu Ai L | IIICH V | V UF PEI | ERSON ROAD | | | CONTRACT NO. 62T9 | 98 |
| žΞ | | PLOT DATE = 02/03/2023 | DATE - 02/03/2023 | REVISED - | | SCALE: | SHEET | OF | SHEETS | STA. | TO STA. | | ILLINOIS FED. A | D PROJECT | |





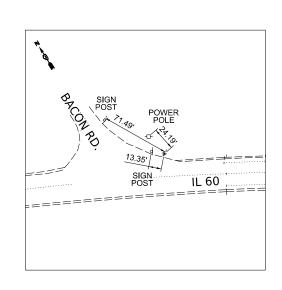
CONTROL POINT #207

IRON ROD WITH CAP STA. 9+55.13 N=2055938.036 E=1050376.823 ELEV.=789.775



CONTROL POINT #208

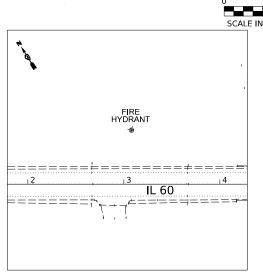
IRON ROD WITH CAP STA, 5+77.11 N=2056087.874 E=1050024.643 ELEV.=784.055



CONTROL POINT #209

IRON ROD WITH CAP N=2056483.170 E=1049475.543 ELEV.=796.590

SCALE: 1:50



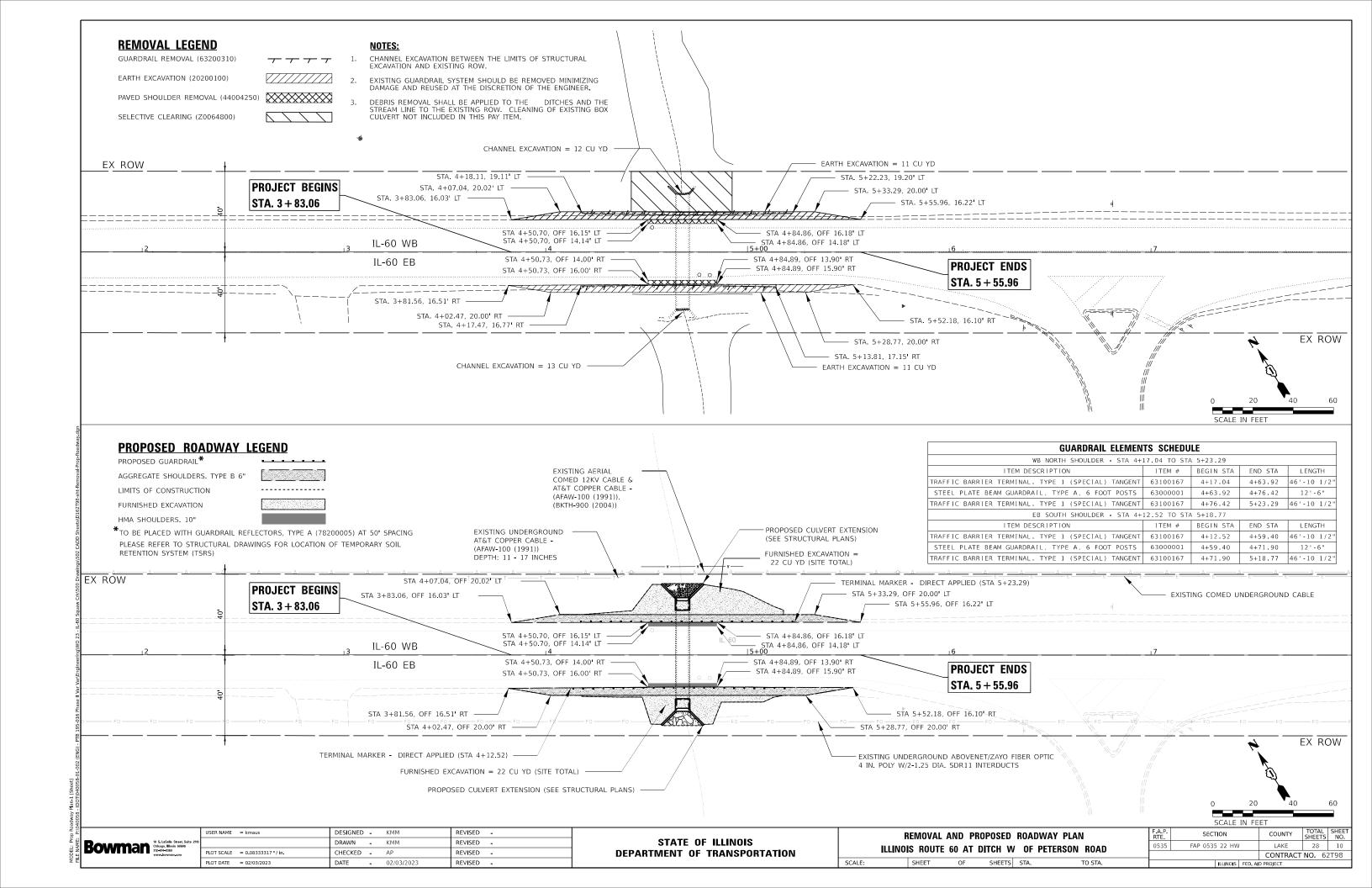
TEMPORARY BENCHMARK "C"

TOP OF WEST BOLT OF FIRE HYDRANT AT NORTH ROW OF IL 60 STA. 3+08.05 N=2056300.971 E=1049840.620 ELEV.=784.905

| Bowman 10 S. LaSalle Street, Suite 3 Chicago, Illinois 60006 313-0-10-000 www.bowman.com | 2110 |
|--|------|
|--|------|

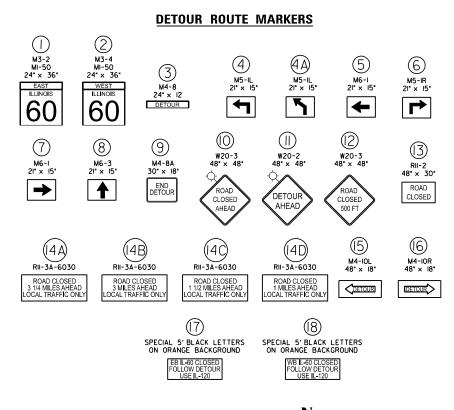
| | USER NAME = kmaus | DESIGNED | - | KMM | REVISED | - |
|-----------|---------------------------------|----------|---|------------|---------|---|
| uite 2110 | | DRAWN | - | KMM | REVISED | - |
| | PLOT SCALE = 0.08333317 ' / in. | CHECKED | - | AP | REVISED | - |
| | PLOT DATE = 02/03/2023 | DATE | | 02/03/2023 | REVISED | - |
| | | | | | | |

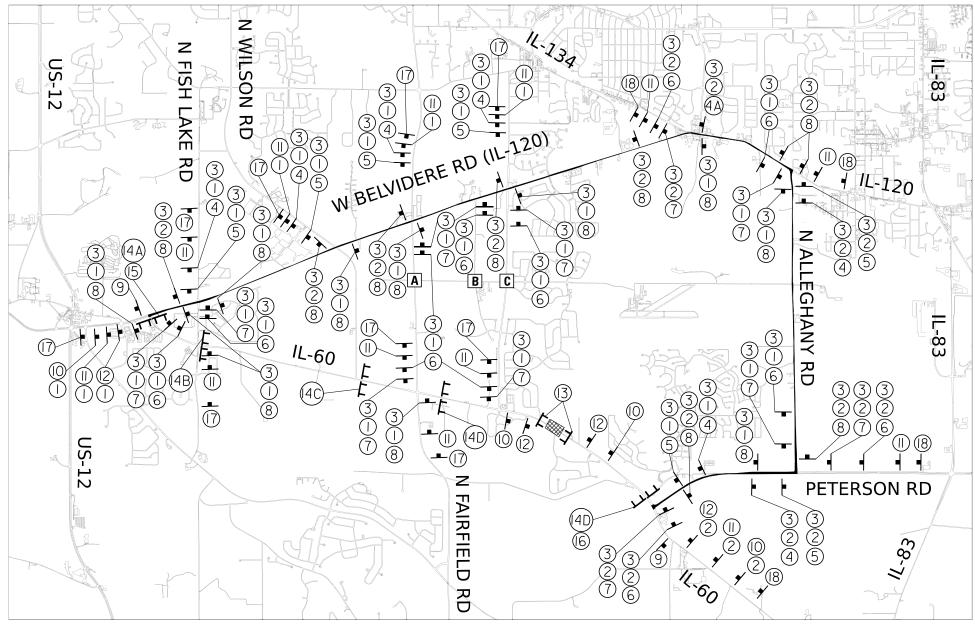
| ALIGNMENT, TIES AND BENCHMARKS | | | | | | | SECT | ION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|----------|---------|----------|-----------|--------------|------|----------|----------------|------------|-----------------|--------------|
| HILIMO | IS ROUTE | EN AT N | ITCH W | OF PETERS | ON ROAD | 0535 | FAP 0535 | 22 HW | LAKE | 28 | 9 |
| ILLINO | io moore | OU AI D | 11011 44 | OI ILILIA | OIL HOAD | | | | CONTRACT | NO. 67 | 2T98 |
| 1:50 | SHEET 1 | OF 1 | SHEETS | STA, 1+00 | TO STA. 9+67 | | | ILLINOIS FED A | ID PROJECT | - | |



DETOUR NOTES

- ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022. THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 2. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
- 4. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
- 5. A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE CULVERT CONSTRUCTION ON IL ROUTE 60, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 60 AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CULVERT CONSTRUCTION. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PROCE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
- TEMPORARY TRAFFIC SIGNAL TIMING TO BE CONSIDERED ALONG DETOUR ROUTE FOR EACH SIGNALIZED INTERSECTION. SEE BELOW FOR INTERSECTIONS CONSIDERED FOR TEMPORARY TRAFFIC SIGNAL TIMING.
- 7. LOCAL ACCESS SHALL BE PROVIDED AT ALL TIMES TO RESIDENTS AND BUSINESSES.





TEMPORARY TRAFFIC SIGNAL TIMING

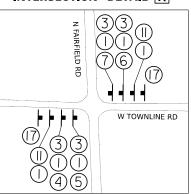
THE FOLLOWING INTERSECTIONS WILL BE CONSIDERED FOR TEMPORARY TRAFFIC SIGNAL TIMING AS PART OF THE DETOUR PLAN:

IL-120 AND IL-60 IL-120 AND N WILSON RD IL-120 AND N FISH LAKE RD IL-120 AND N FAIRFIELD RD IL-120 AND CEDAR LAKE RD

IL-120 AND E MAIN ST

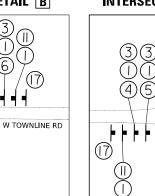
IL-120 AND HAINESVILLE RD IL-120 AND N ALLEGHANY RD N ALLEGHANY RD AND PETERSON RD PETERSON RD AND BHEM LN IL-60 AND PETERSON RD

INTERSECTION DETAIL A

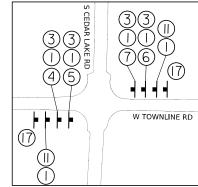


SCALE:

INTERSECTION DETAIL B



INTERSECTION DETAIL C



Bowman 10 S. LaSalle Street.

LEGEND

WORK ZONE

VEHICULAR DETOUR ROUTE
TEMPORARY DETOUR SIGN
TYPE III BARRICADE

| | USER NAME = kmaus | DESIGNED | - | \$DESIGN\$ | REVISED | - |
|---------|-----------------------------|----------|---|-------------|---------|---|
| te 2110 | | DRAWN | - | \$DRAWN\$ | REVISED | - |
| | PLOT SCALE = 2000.000 / in. | CHECKED | - | \$CHK\$ | REVISED | - |
| | PLOT DATE = 2/3/2023 | DATE | - | \$CHKDATE\$ | REVISED | - |

SCALE IN FEET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| DETOUR PLAN | F.A.P. RTE | SECTION | COUNTY | | NO. |
|---|---------------|-----------------|-----------|----------|-----|
| ILLINOIS ROUTE 60 AT DITCH W OF PETERSON ROAD | 0535 | FAP 0535 22 HW | LAKE | 28 1 | 11 |
| ILLINOIS HOUTE SO AT BITOIT W OF TETERIOON HOAD | | | CONTRACT | NO. 62T9 | 8 |
| SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED AL | D DDOIECT | | |



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 8/23/22

| ROUTEIL-60 | DES | CRI | IPTION | ـــــ ۱ | | IL-60 Box Culvert | L | ogg | ED BY | <u>A. B</u> | oland |
|---|-------------|------------------|------------------|-------------|------------------|---|---------------------|------------------|------------------|--------------|----------------------|
| SECTION | | _ | LOCA | NOITA | 205 | 6151.735, 1049951.536 | | | | | |
| COUNTY Lake D | | | | | | | | | Auto | matic | |
| STRUCT. NO. 049-0567 Station 195+94 BORING NO. IL-60-BCB-01 | | D E P T | B L O W | U C S | M O I S | Surface Water Elev Stream Bed Elev Groundwater Elev.: | ft ft | D E P T | B L O W | U C S | M O I S |
| Station Offset | | Н | S | Qu | T | First Encounter Upon Completion | Not Taken ft | | S | Qu | T |
| Ground Surface Elev. 784.64 ASPHALT (12") | 4 ft | (ft) | (/6") | (tsf) | (%) | After Hrs. Dark gray CLAY, moist | Not Taken ft | (ft) | (/6") | (tsf) | (%) |
| , , | 783.64 | - | | | | (continued) | • | _ | | | |
| STONE (5") Dense gray SAND and GRAVEL, | 783.24 | _ | 37 25 | | 8.6 | Very stiff, trace gravel | | _ | 5 | | 21.2 |
| dry | - | _ | 5 | | 0.0 | | | | 7 | 2.4 | |
| Stiff dark brown CLAY, trace | 781.64 | | | | | | | | | LB. | 1 |
| gravel, moist | | _ | 2 | | | Very stiff, trace gravel | | _ | 5 | | |
| | _ | | 1 | 1.2 | 35.0 | | | _ | 5 6 | 2.7 | 20.6 |
| | - 779.14 | -5 | 3 | 1.3 \ B | _ | | | 25 | ь | Z./ B / | \vdash |
| Dark gray CLAY, moist | - 110.14 | | | | | | | | | | |
| Medium stiff Organic content= 5.6% | | _ | 1 | | 41.7 | Very stiff, trace gravel | | _ | 2 | | 21.6 |
| | - | | 2 | 0.7 | | | | _ | 6 | 2.4 | |
| | - | | | _B_ | | | | | | <u>B</u> , | |
| Very stiff, little gravel | | - | 5 | | | Very stiff, trace gravel | | _ | 5 | | |
| | - | | 4 | | 19.1 | | | | 4 | 0.5 | 22.3 |
| | - | -10 | 3 | 2.0 \ P | | End of boring at 30' | 754.64 | -30 | 4 | 2.5 B | $\vdash\vdash\vdash$ |
| | _ | - | | | | | | | | | |
| Hard, trace gravel | | _ | 4 5 | | 17.0 | | | _ | | | |
| | - | | 7 | 5.6 | 17.0 | | | _ | 1 | | |
| | _ | - | | LB_ | | | | _ | | | |
| Very stiff, trace gravel | | _ | | | | | | | - | | |
| Shelby tube @ 13.5'-15.5' LL=32%,PI=16% | - | | | | 17.8 | | | _ | | | |
| LL-32 /0,1 1-10 /0 | - | -15 | | 4.0 B | | | | -35 | | | |
| | , | _ | | | | | | _ | 1 | | |
| Very stiff, trace gravel | - | _ | 4 | | 40.0 | | | | | | |
| | - | | 5 7 | 3.6 | 19.0 | | | | - | | |
| | _ | _ | | В | | | | _ | 1 | | |
| Stiff, trace gravel | | _ | 4 | | | | | | - | | |
| oun, nace gravel | - | | 4 | | 18.8 | | | _ | 1 | | |
| | | -20 | 5 | 1.6 | | | | -40 | 1 | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 8/23/22

| ROUTE | IL-60 | | _ DES | SCRI | PTION | ١ | | IL-60 Box Culvert | | LOGGI | ED BY | <u>A. B</u> | <u>oland</u> |
|--------------------------------------|-----------------|-----------|----------|--------|-------------|-------------|-------------|--|-------------------------|-------------|-------------|--------------|--------------|
| SECTION | | | | _ | LOCA | ATION | 2056 | 6186.901,1049939.856 | | | | | |
| COUNTY | | | | | | | | Stem Auger | | = | Auto | matic | |
| STRUCT. NO Station | 049-05 195+9 | 667 94 | _ | D E P | B L O | U C S | M 0 1 | Surface Water Elev Stream Bed Elev | ft ft | D E P | B L O | U C S | M O I |
| BORING NO Station Offset | | | _ | T H | W S | Qu | S | Groundwater Elev.: First Encounter Upon Completion | <u>Dry ft</u> Dry ft | T H | W S | Qu | S T |
| Ground Surfac | | 784.86 | ft | (ft) | (/6") | (tsf) | (%) | After Hrs Dark gray CLAY <i>(cont</i> | Not Taken f t | (ft) | (/6") | (tsf) | (%) |
| ASPHALT (14") | | - | 702 GG . | _ | | | | | | _ | | (<u> </u> | |
| Dark brown CLA | Y, some sar | nd, | 783.66 · | _ | 5 3 | | 18.0 | Very stiff, trace gravel | | | 2 | | 21.9 |
| some gravel Very stiff | | | | | 3 | 2.3 | 16.0 | | | | 4 | 3.0 | 21.9 |
| , | | | | | | LP_ | | | | | | _B_/ | |
| Stiff | | | | _ | 2 | | | Very stiff, trace gravel | | _ | 2 | | |
| | | | | | 2 | | 24.9 | | | | 3 | | 21.6 |
| | | | | -5 | 2 | 1.0 \ P | | | | 25 | 5 | 2.4 \ B / | |
| | | | | _ | | <u> </u> | | | | | | | |
| Stiff | | | | _ | 2 | | 18.1 | Stiff, trace gravel | | _ | 4 | | 21.0 |
| | | | | | 1 | 1.8 | 10.1 | | | | 5 | 1.8 | 21.0 |
| NA 11 (1995) | 01.41/ | 7 | 776.86 | | | LP. | | | | | _ | <u>B</u> / | |
| Medium stiff, gra sand, some grav | | me | | _ | 1 | | | Stiff | 755. | | 5 20 | | 15.4 |
| | | | | | 1 | | 25.3 | Dense, gray SAND an | id GRAVEL, | | 15 | 2.0 | |
| | | - | | -10 | 2 | 0.5 \ P | | moisture=7.6% End of boring at 30' | 754. | 86 -30 | | <u>B</u> / | |
| Dark gray CLAY | | / | 774.36 | _ | | <u> </u> | | Lind of borning at 50 | | | | | |
| Very stiff | | | • | _ | 3 | | 17.0 | | | | | | |
| | | | | | 5 7 | 3.5 | 17.6 | | | | | | |
| | | | | | | В | | | | | | | |
| Very stiff | | | | _ | 3 | | | | | _ | | | |
| Voly ouiii | | | | | 5 | | 17.6 | | | | | | |
| | | | | -15 | 7 | 2.3 B | | | | 35 | | | |
| | | | | _ | | | | | | | | | |
| Very stiff | n @ 16! 10! | ı | - | | | | 10.0 | | | | | | |
| Shelby tube take LL=33%, PI=16% | | | | | | 3.0 | 19.6 | | | | | | |
| | | | | _ | | В | | | | | | | |
| Very stiff, trace g | rravel | | | | 2 | | | | | | | | |
| very sun, nace g | jiavoi | | • | | 3 | | 22.1 | | | | | | |
| | | | | -20 | 4 | 2.1 | | | | -40 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

Bowman 10 S. LaSalle Street, St. Chicago, Illinois 60606 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514-0360 312-514

USER NAME = kmaus DESIGNED - KMM REVISED -REVISED -DRAWN - KMM CHECKED - AP REVISED -PLOT DATE = 02/03/2023 DATE - 02/03/2023 REVISED -

STATE OF ILLINOIS

GEOTECHNICAL SOIL BORINGS ILLINOIS ROUTE 60 AT DITCH W OF PETERSON ROAD SHEET 1 OF 1 SHEETS STA.

SECTION COUNTY FAP 0535 22 HW LAKE 28 12 CONTRACT NO. 62T98

EROSION CONTROL AND LANDSCAPING NOTES:

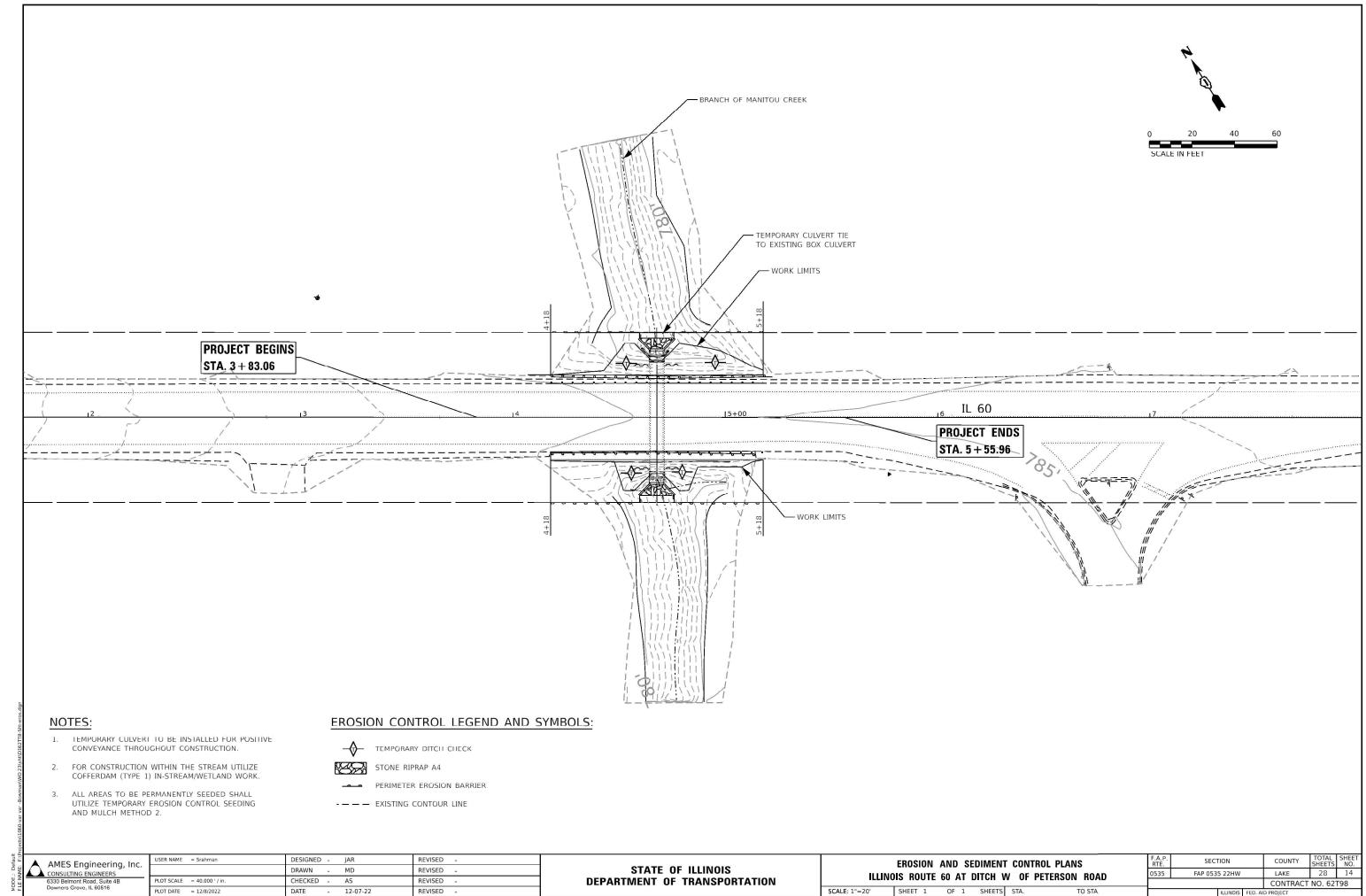
- 1. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:(HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL).
- 2. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- 3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
- 4. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
- 5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. PERMANENT SEED AND FINAL LANDSCAPING SHALL BE PLACED IN STAGE IF ALLOWED BY THE SEEDING DATES IN ARTICLE 250.07.
- 6. ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES ARE INCIDENTAL TO THE CONTRACT.
- AS DIRECTED BY THE ENGINEER, MULCH METHOD 2 SHOULD BE APPLIED TO SLOPES FOR TEMPORARY STABILIZATION PRIOR TO SEASONS WHEN TEMPORARY SEED WILL NOT GERMINATE.
- 8. REFER TO STRUCTURAL PLANS FOR WATERWAY INFORMATION TABLE FOR 2 YEAR STORM INFORMATION FOR THE COFFERDAM.
- 9. THIS PROJECT REQUIRES A 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 AN 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 WITH THE EXCEPTION OF COFFERDAMS WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.
- 10. PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).
- 11. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, AT LEAST 7 DAYS PRIOR TO PLANTING FOR LAYOUT APPROVAL OF THE SEEDING, TREES, SHRUBS, AND PLUGS.
- 12. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR IF THE WORK AREA IS TO LEFT UNDISTURBED FOR 14 DAYS OR MORE.

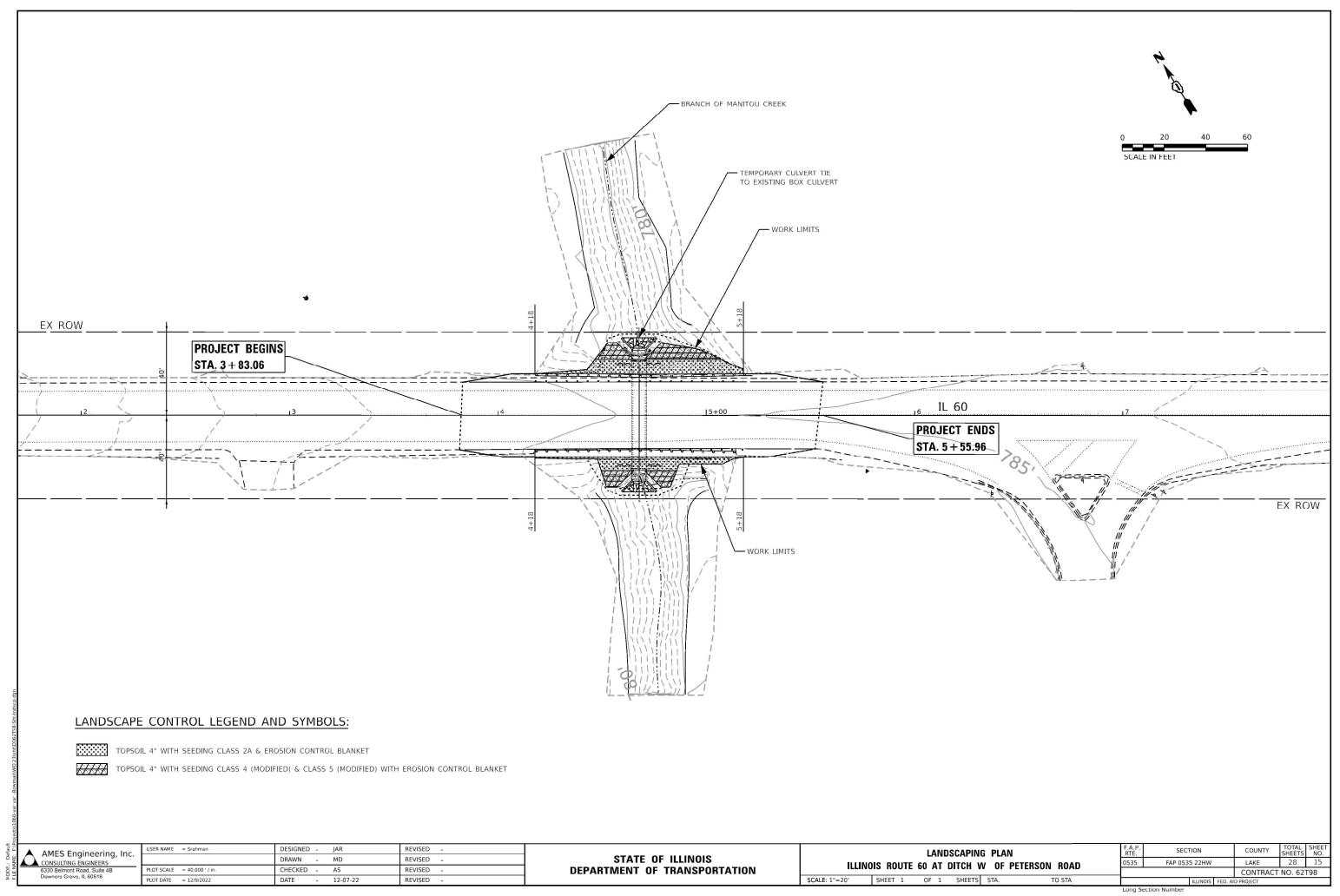
| AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516 | |
|---|--|

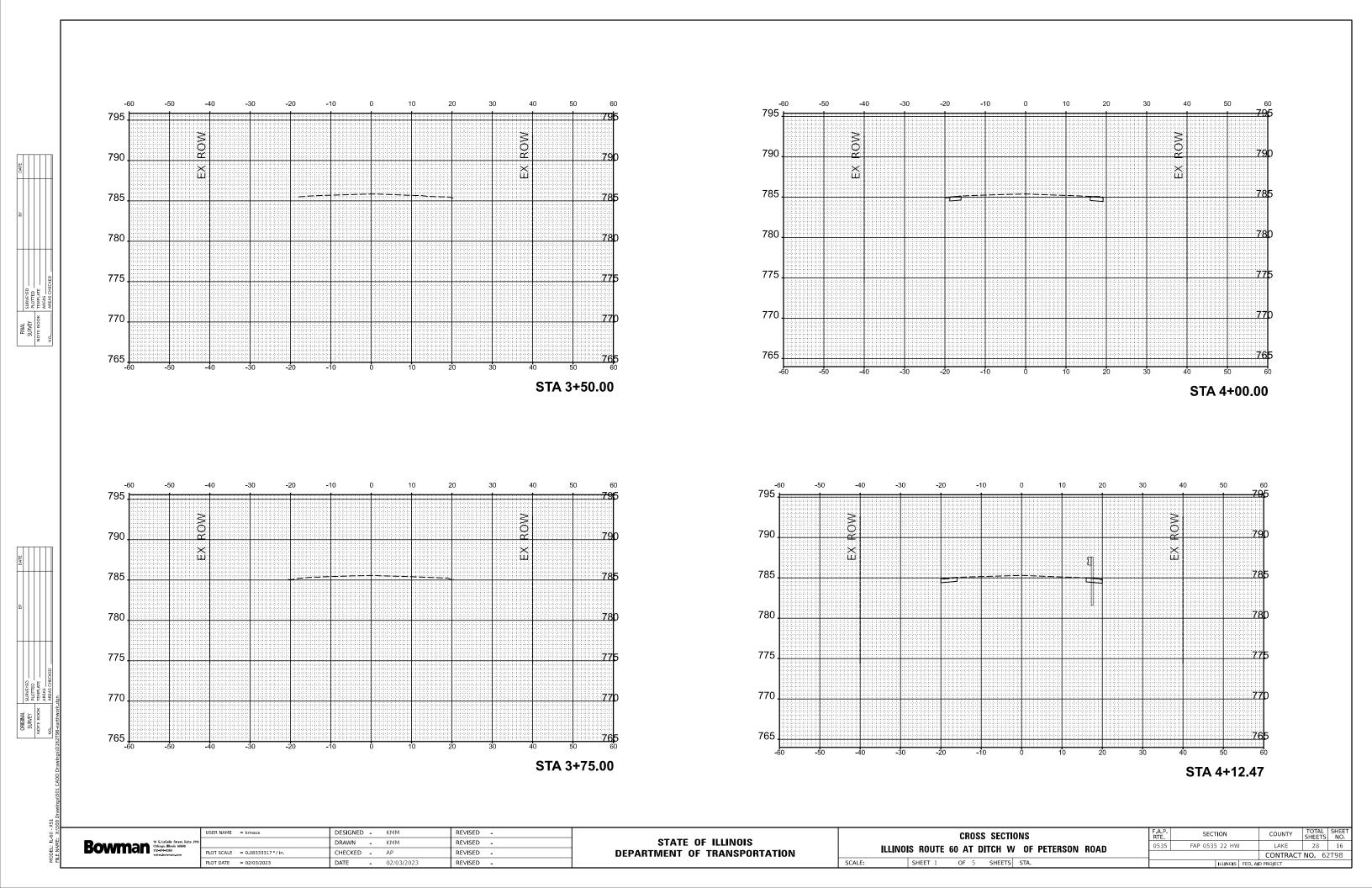
| | USER NAME = \$USER\$ | DESIGNED - | JAR | REVISED - | |
|---|------------------------|------------|---------|-----------|--|
| | | DRAWN - | MD | REVISED - | |
| • | PLOT SCALE = \$SCALE\$ | CHECKED - | AS | REVISED - | |
| | PLOT DATE = \$DATE\$ | DATE - | 9-19-22 | REVISED - | |

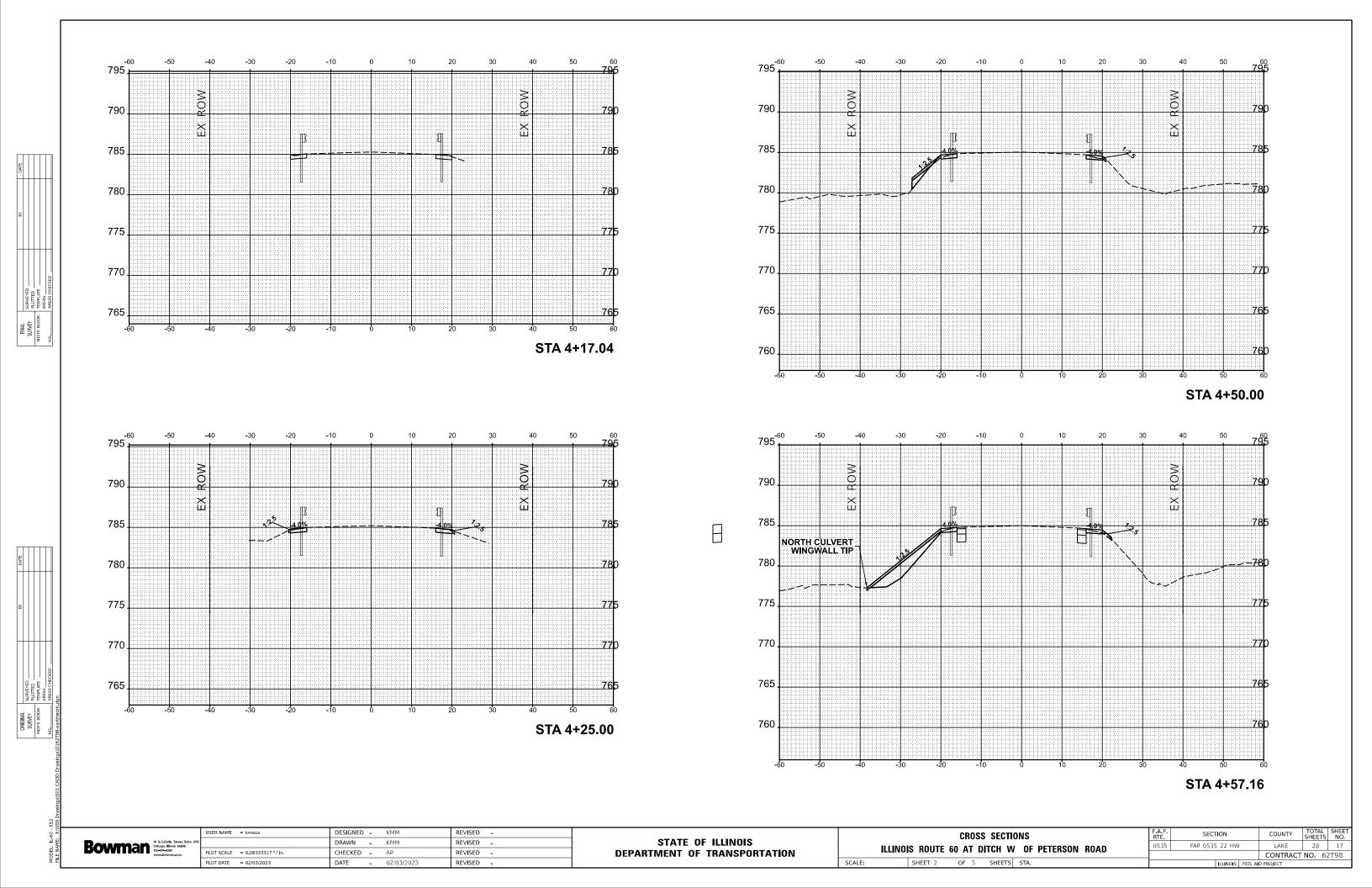
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

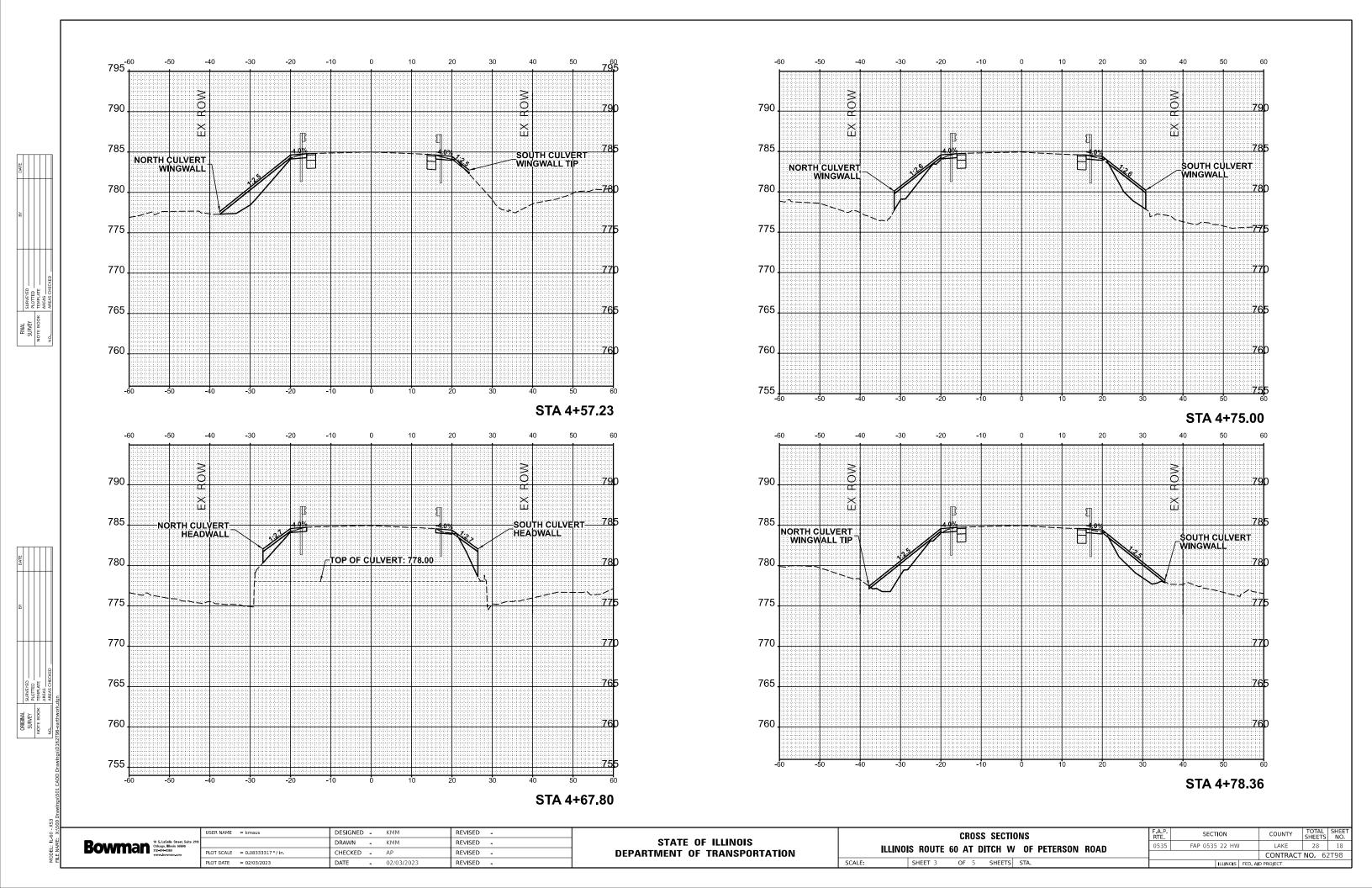
| | | EROSION | CONTROL NO | TES | F.A.P. RTE | |
|-------------|------------|---------|-------------|---------------|---------------|---|
| ILLIN | IOIS ROUTE | 60 AT | DITCH W OF | PETERSON ROAD | 0535 | F |
| | | | | | | |
| SCALE: NONE | SHEET 1 | OF 1 | SHEETS STA. | TO STA. | | |

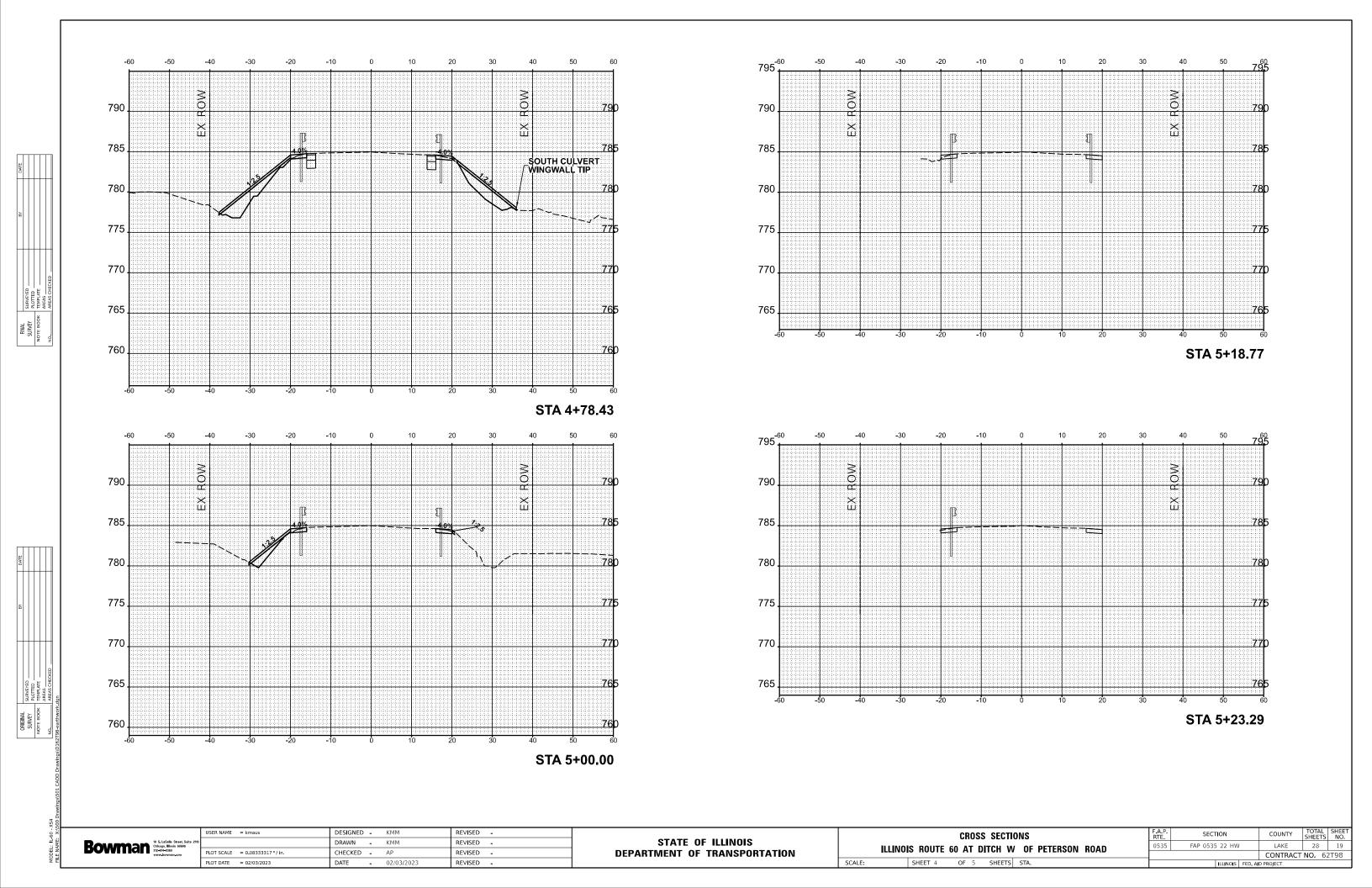


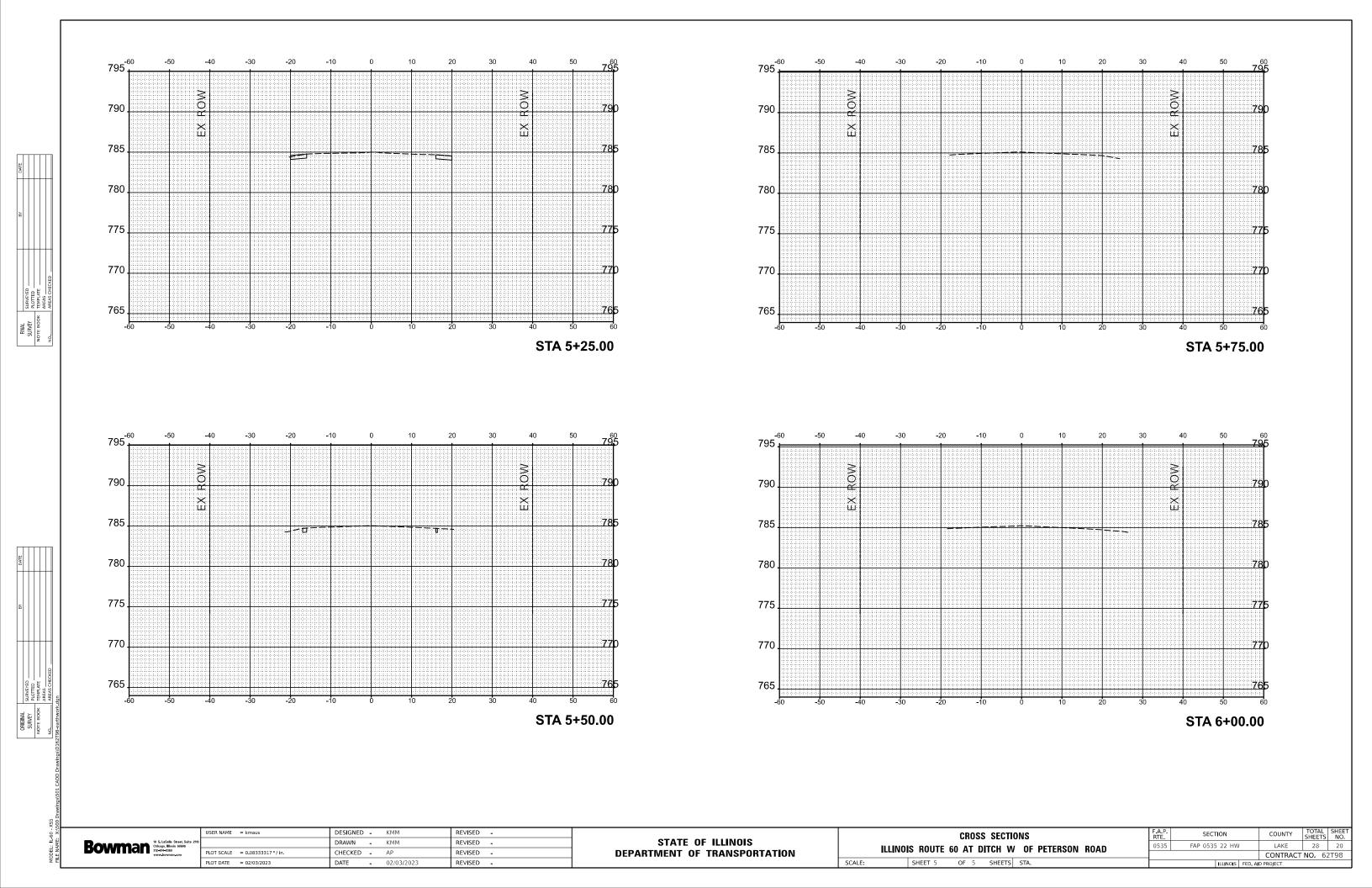












Existing Structure:

The structure is a single-cell cast-in-place concrete culvert with a 6'x4' cell which was constructed in 1949. The structure carries F.A.P. 0535 / IL 60 at Ditch W of Peterson Road. The existing culvert has a length of 58'-11" and is to be partially removed and extended as shown in these plans.

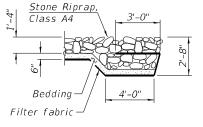
Prop. Steel Plate Beam

New Handrail, typ.

Guardrail, Type A, 6 Foot Post

Traffic Control:

Traffic to be maintained through detour.



SECTION A-A

INDEX OF SHEETS

- 1. General Plan & Elevation
- 2. General Notes & Bill of Material
- 3. Culvert Limits of Partial Removal & Replacement
- 4. Plan of Top Slab
- 5. Plan of Bottom Slab
- 6. Culvert Details
- 7. Handrail Details

SCOPE OF WORK

- 1. Clean Existing Culvert
- 2. Partially remove and rebuild culverts in the limits shown on plans.
- Remove and install new Guardrail over the culvert.
- 4. Install new Handrail.
- 5. Install A4 Riprap.
- 6. Install Expansion Bolts as shown on plans.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS-20

Exisitng and Proposed

DESIGN STRESSES

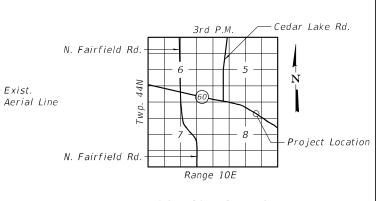
FIELD UNITS (NEW CONSTRUCTION)

f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

2-year peak flow = 54 cfs



LOCATION SKETCH

GENERAL PLAN & ELEVATION

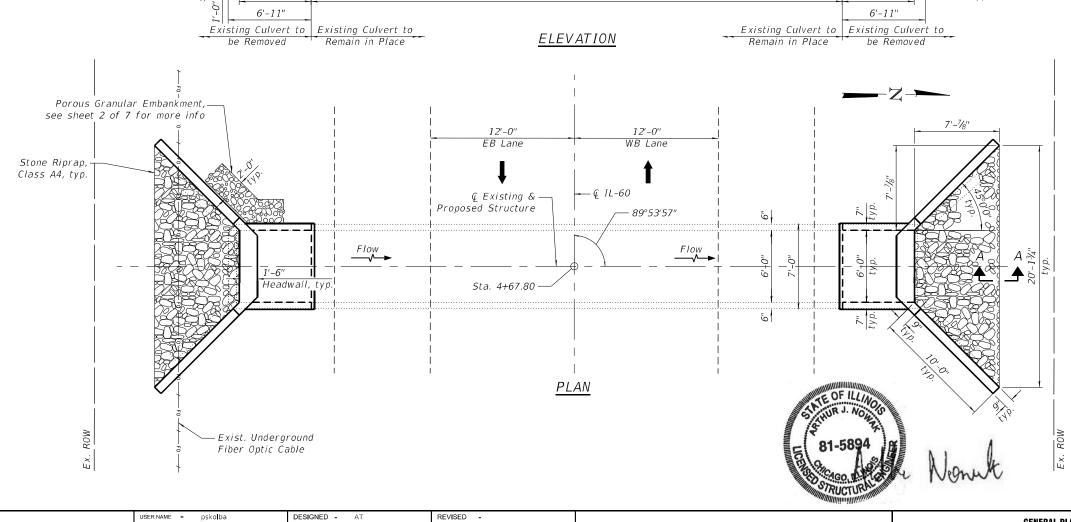
IL RTE. 60 AT DITCH W OF PETERSON ROAD

F.A.P. RTE. 0535/SECTION 22 HW

LAKE COUNTY

STATION 4+67.80

<u>STRUCTURE NO. 049-0567</u>



56'-31/8" Out to Out Headwalls

44'-31/4"

12'-0"

EB Lane

8'-0"

Shoulder

- Match existing

expansion bolts

culvert invert

Install

€ IL-60

12'-0"

WB Lane

8'-0"

Shoulder

Match existing

culvert invert

expansion bolts

Install -

1'-6" Headwall, typ.

Toewall, typ.

Bowman ST S, Weeker Drive Officeryo, Minois 500 ST and 16-45300 Warner Drive Officeryo, Minois 500 Warner Drive Officeryo

| | USER NAME = pskolba | DESIGNED - AT | REVISED - |
|------------------------|------------------------|---------------|-----------|
| re, Suite 1950 0606 | | CHECKED - AJN | REVISED - |
| m | PLOT SCALE = | DRAWN - AT/PS | REVISED - |
| | PLOT DATE = 02/03/2023 | CHECKED - AJN | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 049-0567
SHEET 1 OF 7 SHEETS

 F.A.P. RTE.
 SECTION
 COUNTY SHEETS NO.
 SHEETS NO.

 0535
 22 HW
 LAKE
 28
 21

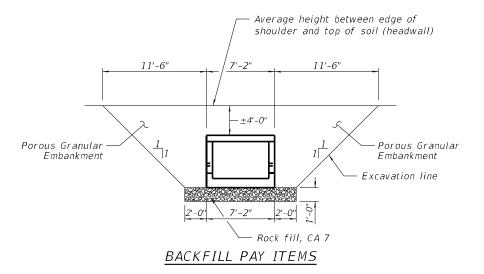
 CONTRACT NO.
 62T98

GENERAL NOTES

- 1. All exposed concrete edges shall have a $\frac{3}{4}$ " x 45° chamfer, except where shown otherwise. chamfer on vertical edges shall be continued a minimum of one foot within finished ground level.
- Reinforcement bars designated "(E)" shall be epoxy coated.
- Reinforcement bar bending details shall be in accordance with the latest "Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315.
- Reinforcement bar bending dimensions are out to out.
- Cover from the face of concrete to face of reinforcement bars shall be 3" for surfaces formed against earth and 2" for all other surfaces unless otherwise shown.
- Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- Contractor shall not scale dimensions from the Contract Plans for construction purposes. Scales shown are for information only.
- 8. No construction joints except those shown on the plans shall be allowed unless approved by the Engineer.
- No concrete cutting shall be permitted until the cutting limits have been outlined by the Contractor and approved by the Engineer.
- 10. During construction, OSHA requires that a minimum of thirteen (13) feet working clearance must be maintained between the booms, arms or other parts that can be raised on the equipment by the contractor and ComEd's existing electric transmission lines. Contractor shall coordinate with ComEd at no additional cost to the contract if work area
- 11. Temporary Soil Retention System shall be designed by the Contractor.
- 12. Cleaning, removing and disposing of all debris and obstructions outside the limits of the existing culvert cells is included in the "Box Culvert to be Cleaned" pay item.
- 13. Existing longitudinal reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

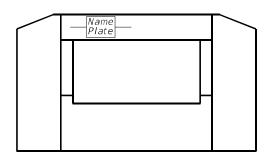
TOTAL BILL OF MATERIAL

| PAY ITEM | ITEM | UNIT | TOTAL |
|----------|--|-------|-------|
| 20700220 | Porous Granular Embankment | CU YD | 85 |
| 21001000 | Geotechnical Fabric for Ground Stabilization | SQ YD | 23 |
| 28100107 | Stone Riprap, Class A4 | SQ YD | 21 |
| 28200200 | Filter Fabric | SQ YD | 41 |
| 50102400 | Concrete Removal | CU YD | 12.0 |
| 50200100 | Structure Excavation | CU YD | 86 |
| 50800205 | Reinforcement Bars, Epoxy Coated | POUND | 4,950 |
| 50901760 | Pipe Handrail | F00T | 12.5 |
| 51500100 | Name Plates | EACH | 1 |
| 52200020 | Temporary Soil Retention System | SQ FT | 398 |
| 54002040 | Expansion Bolts 3/4 Inch x 6 Inch | EACH | 32 |
| 54003000 | Concrete Box Culverts | CU YD | 14.8 |
| 60905305 | Box Culverts to be Cleaned | FOOT | 69.0 |
| Z0012754 | Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches) | SQ FT | 24.0 |
| Z0054400 | Rock Fill | CU YD | 7.1 |
| | | | |



STATION 4+67.80 BUILT 1949 AND REPAIRED 202_ BY STATE OF ILLINOIS LOADING HS-20 STRUCTURE NO. 049-0567

> NAME PLATE See Std. 515001

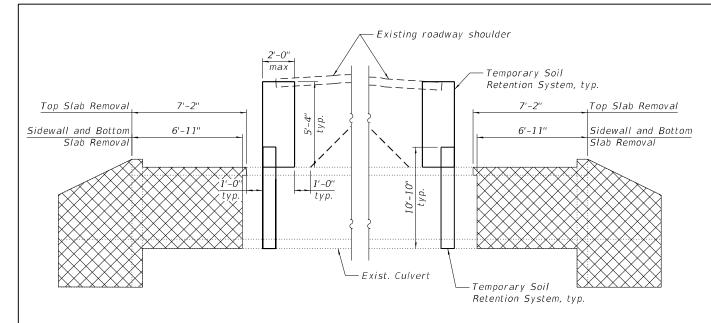


NAME PLATE LOCATION

(South End Section, Looking North)

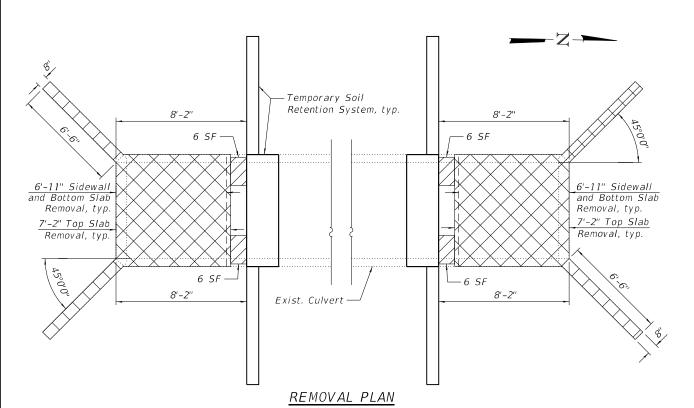
| | USER NAME = atiemann | DESIGNED - AT | REVISED - | |
|---------|------------------------|---------------|-----------|--|
| te 1950 | | CHECKED - AJN | REVISED - | |
| | PLOT SCALE = | DRAWN - AT/PS | REVISED - | |
| | PLOT DATE = 03/07/2023 | CHECKED - AJN | REVISED - | |

| GENERAL NOTES & BILL OF MATERIAL Structure no. 049-0567 | | SECT | SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. |
|--|--|------|----------|----------|---------|-----------------|--------------|
| | | 22 1 | -IW | | LAKE | 28 | 22 |
| | | | | | CONTRAC | NO. | 62T98 |
| SHEET 2 OF 7 SHEETS | | | ILLINOIS | FED. AII | PROJECT | | |

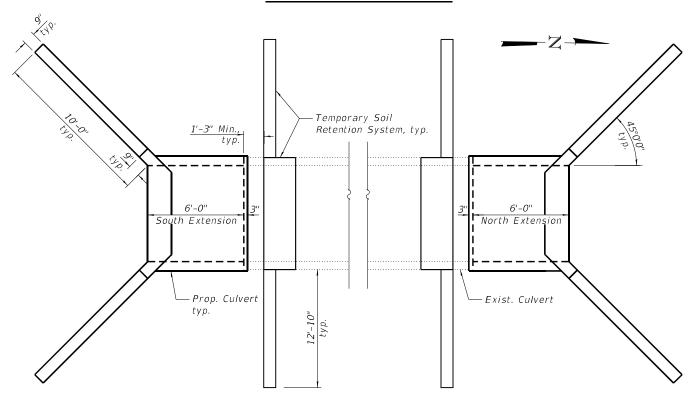


- Existing roadway shoulder Temporary Soil -Retention System, typ. max 6'-0'' 6'-0" North Extension South Extension 1'-0" 1'-0" - Exist. Culvert Temporary Soil – Prop. Culvert, typ. Retention System, typ.

REMOVAL ELEVATION



REPLACEMENT ELEVATION



REPLACEMENT PLAN

The contractor shall make every effort to minimize impact to the existing shoulder during design and construction of the TSRS.

Upon approval of the TSRS by the Department, if necessary, the shoulder reconstruction shall be completed as directed by the Engineer.

Any additional damages beyond the existing shoulder shall be repaired by the contractor at the

Please refer to Roadway Typical Section for HMA Mix Requirements Table.

Quantities and limits of Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches) are estimated for bidding purposes only. If any, the actual areas to be repaired will be determined by the Engineer in the field at the time of construction and communicated to the Bridge office prior to any repair work, to assess sequencing of repairs.

LEGEND



Concrete Removal



Structural Repair of Concrete (Depth ≤ 5")

BILL OF MATERIAL

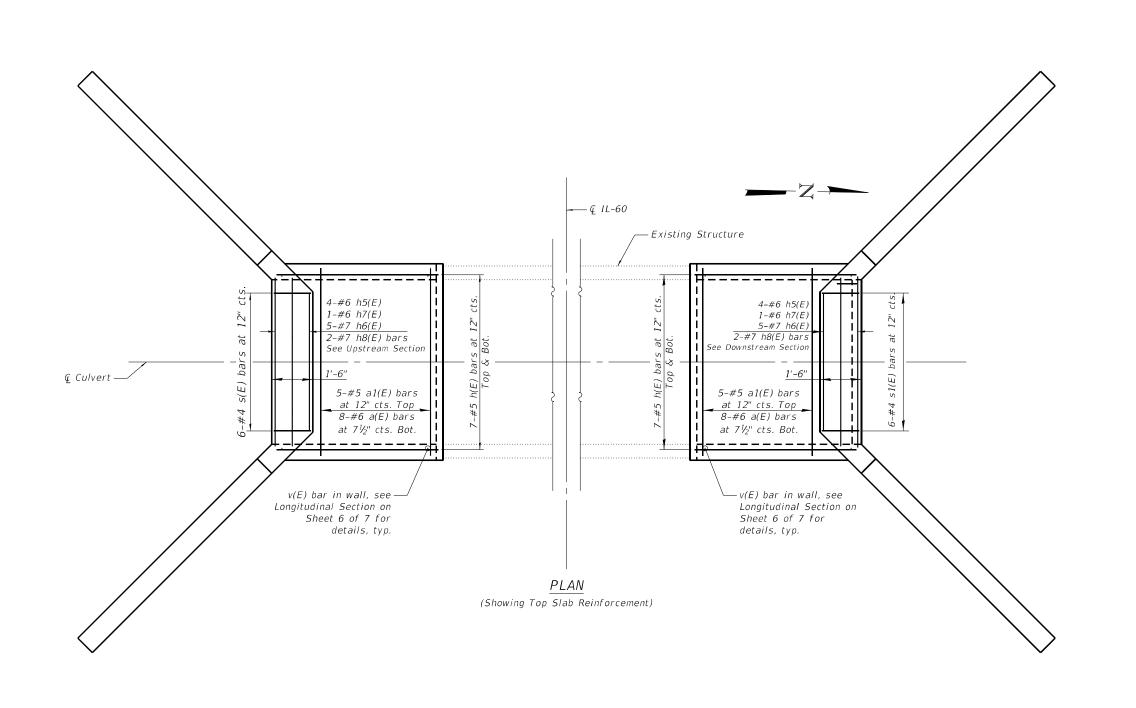
| ITEM | UNIT | TOTAL |
|---|---------|-------|
| Concrete Removal | CU. YD. | 12.0 |
| Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches) | SQ. FT. | 24.0 |
| Temporary Soil Retention System | SQ. FT. | 398 |

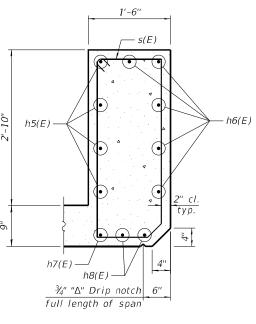
DESIGNED - AT REVISED -CHECKED - AJN REVISED -Bowman Chicago, Illinois 312-414-0380 REVISED -PLOT DATE = 03/13/2023 CHECKED - AJN REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

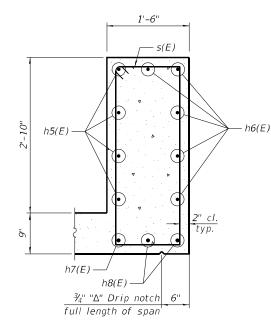
SECTION **CULVERT LIMITS OF PARTIAL REMOVAL & REPLACEMENT** LAKE 28 23 STRUCTURE NO. 049-0567 CONTRACT NO. 62T98 SHEET 3 OF 7 SHEETS

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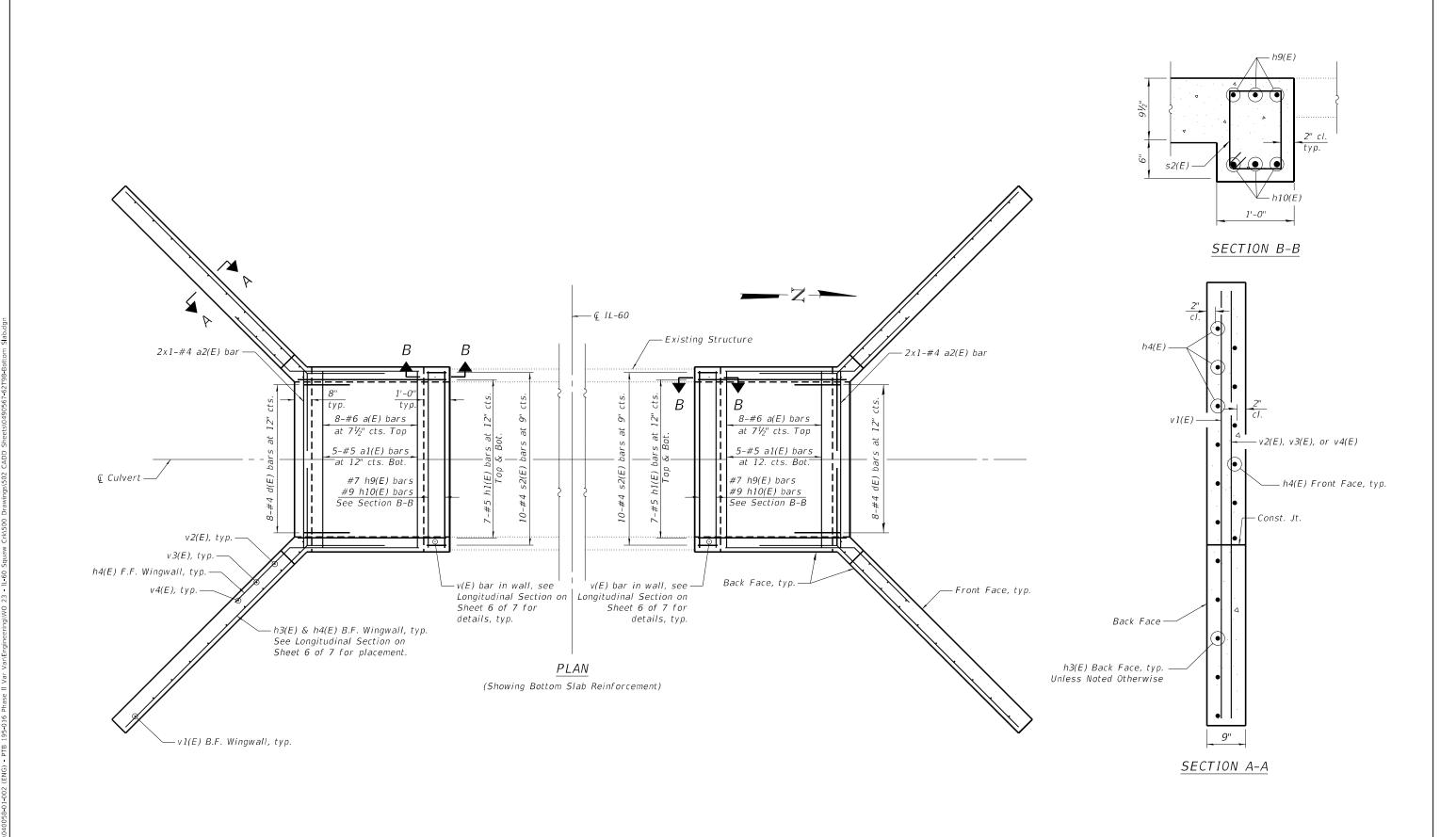
<u>UPSTREAM</u>



DOWNSTREAM

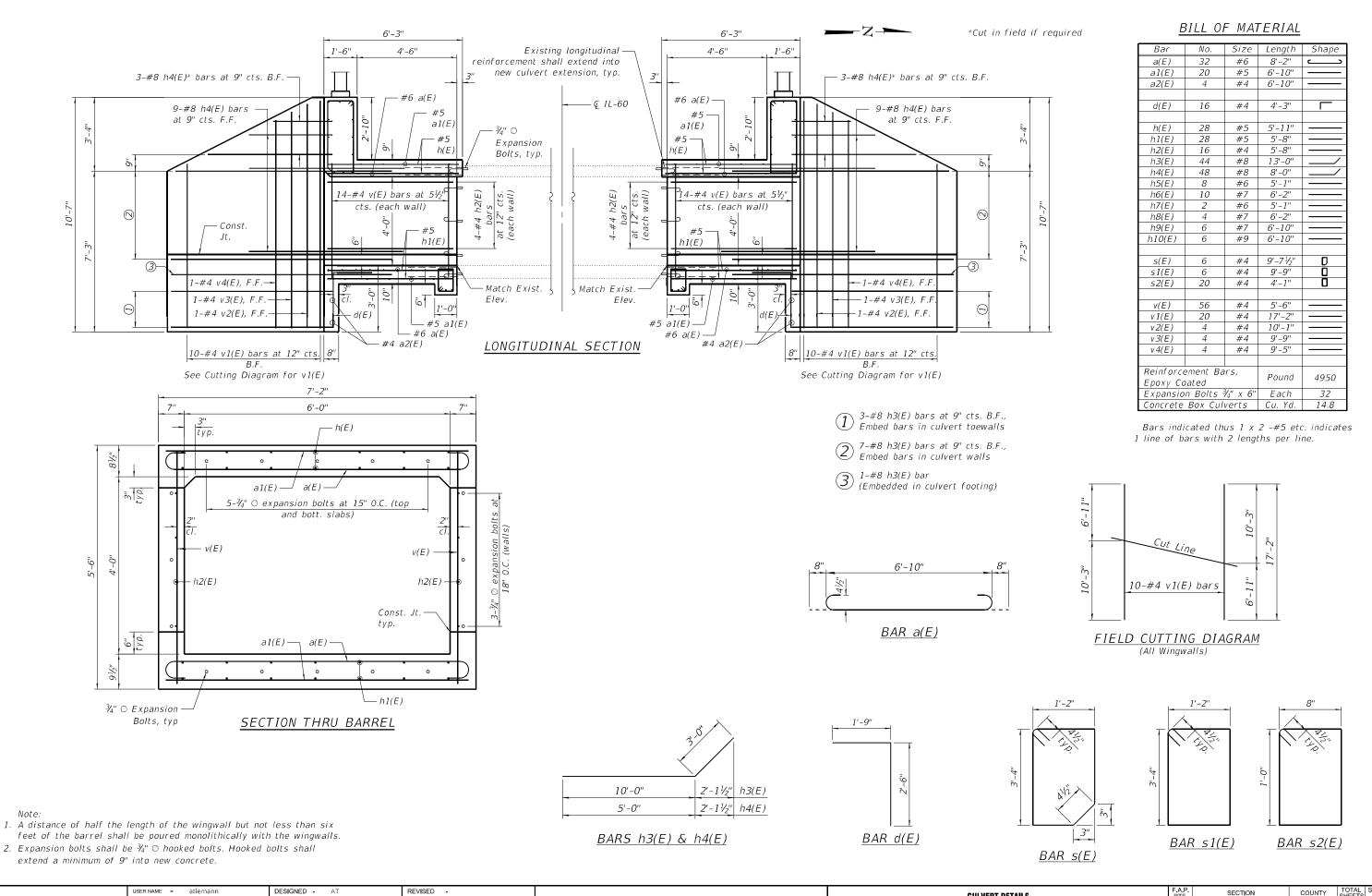
SECTION THRU HEADWALL

| :: :: | | USER NAME = atiemann | DESIGNED - AT | REVISED - | | PLAN OF TOP SLAB | F.A.P. RTE | SECTION | COUNTY | TOTAL S | SHEET NO. |
|----------|--|------------------------|---------------|-----------|--|------------------------|---------------|-----------------|------------|---------|--------------|
| RO | 1311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 313-614-0360 | | CHECKED - AJN | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURE NO. 049-0567 | | 22 HW | LAKE | 28 | 24 |
| | www.bowman.com | PLOT SCALE = | DRAWN - AT/PS | REVISED - | | CHROCIONE NOI 043-0007 | | | CONTRACT | NO. 6 | 2T98 |
| #I | | PLOT DATE = 03/07/2023 | CHECKED - AJN | REVISED - | | SHEET 4 OF 7 SHEETS | | ILLINOIS FED. A | ID PROJECT | | |

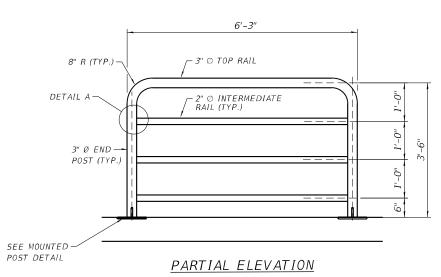


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|--------|-----------------|--|----|
| NAME | Rouman | 311 S. Wacker Drive, Suite 1950 Chicago, Illinois 60606 | |
| Ž E | DOMINALI | 313-614-0360 www.bowman.com | Pl |
| = | | | PI |

| PLAN OF BOTTOM SLAB | F.A.P. RTE | SECTION |
|--------------------------|---------------|----------|
| STRUCTURE NO. 049-0567 | 0535 | 22 HW |
| 01110010112 1101040 0001 | | |
| SHEET 5 OF 7 SHEETS | | II I INC |



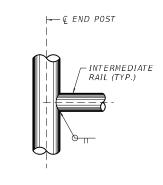
CULVERT DETAILS STATE OF ILLINOIS CHECKED - AJN REVISED -Bowman Chicago, Illinois 312-814-0500 LAKE 28 26 **STRUCTURE NO. 049-0567** REVISED -**DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 62T98 SHEET 6 OF 7 SHEETS PLOT DATE = 03/07/2023 REVISED -CHECKED - AJN ILLINOIS FED. AID PROJECT



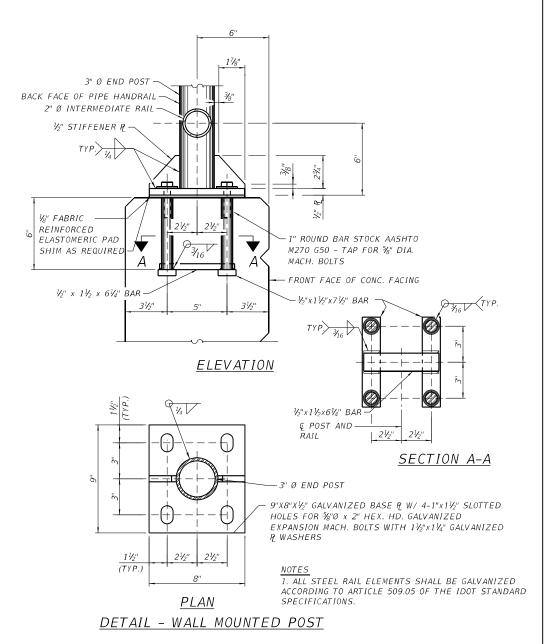
(RAILING SHALL BE ACCORDING TO SECTION 509 OF THE STANDARD SPECIFICATIONS)

BILL OF MATERIAL

ITEM UNIT QUANTITY
PIPE HANDRAIL FOOT 12.5



DETAIL A



Bowman 31 8, Wester Drive, Suite 1950 Chiappa Blance 40060 State-4-1600 Wester-August Blance 40060 Wester-Britan 40060 Wester-Brit

 USER NAME
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 03/07/2023
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

HANDRAIL DETAILS
STRUCTURE NO. 049-0567
SHEET 7 OF 7 SHEETS

 FAP.
 SECTION
 COUNTY
 TOTAL SHEETS NO.

 0535
 22 HW
 LAKE
 28
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 CONTRACT NO. 62T98

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:NG) - PTB 195-016 Phase II Var Var\Engineering\WO 23 - IL-60 Squaw Crk\500 Drawings\502 CADD Sheets

