

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|----------|--------------------|-----------|
| 6090 | 14-00008-00-BR | DEKALB | 85 | J |
| | | ILLINOIS | CONTRACT NO. 87722 | |

SHEET INDEX

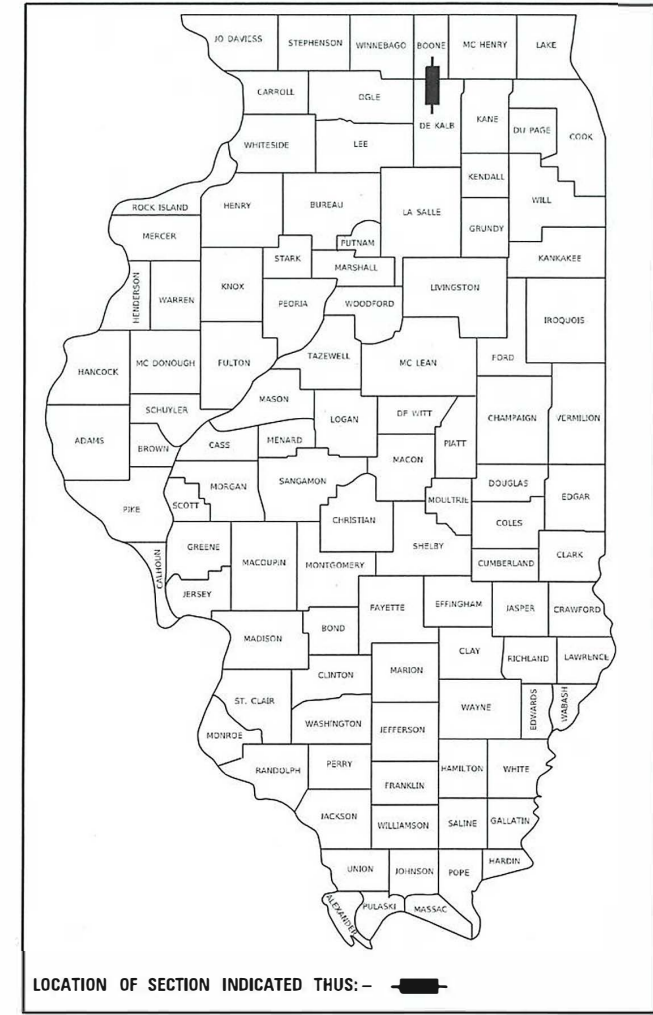
SEE SHEET 2 FOR SHEET INDEX

06-14-2024 LETTING ITEM 206

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
BRIDGE REPLACEMENT PLANS**

MUN ROUTE 6090 (PEARL STREET)
OVER SOUTH BRANCH KISHWAUKEE RIVER
SECTION NO: 14-00009-00-BR
PROJECT NO: W98R(227)
VILLAGE OF KIRKLAND
DEKALB COUNTY
C-93-010-20



DESIGN DESIGNATION

PEARL STREET: LOCAL

TRAFFIC DATA

PEARL STREET:

ADT:
1,000 (2019)
1,200 (2050)

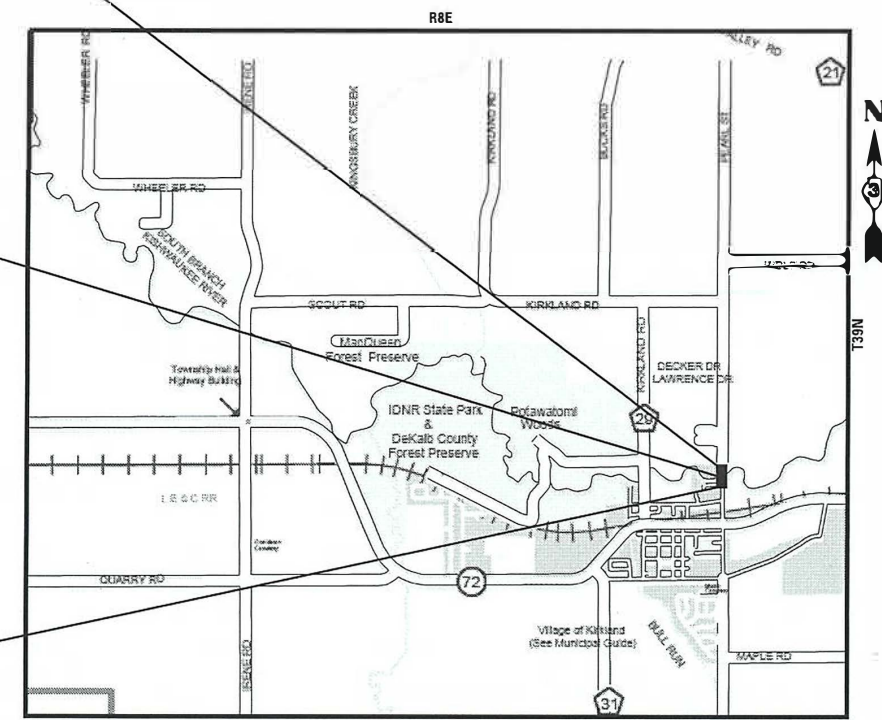
SPEED LIMIT:
POSTED - 30 MPH
DESIGN - 35 MPH

COMPOSITION:
P.V. - 90%
S.U. - 10%

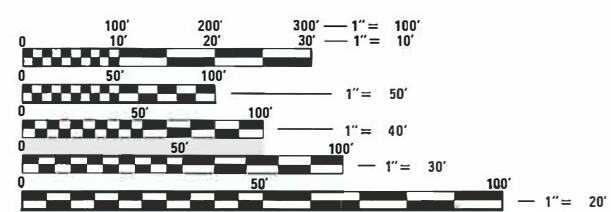
PEARL STREET
IMPROVEMENT
ENDS STA. 114 + 95.00

PROP. STRUCTURE NO. 019-6500
EXIST. STRUCTURE NO. 019-4008

PEARL STREET
IMPROVEMENT
BEGINS STA. 106 + 95.00



FRANKLIN TOWNSHIP
LOCATION MAP
N.T.S.
PROJECT LENGTH (GROSS & NET)
TOTAL LENGTH 800.00 FT (0.152 MILE)



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER:
UNIT CHIEF:
DISTRICT 3 NUMBER: (815) 434-6131
CONTRACT NO. 87722



4/4/24
Matthew Baldwin, P.E.
NO. 062-063297
EXP. DATE 11/30/25
SHEETS 1 TO 33 AND
SHEETS 74 TO 85



4/4/24
Matthew D. Santeford, P.E., S.E.
NO. 081-007244
EXP. DATE 11/30/2024
SHEETS 34 TO 73

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED November 10, 2023
[Signature]
VILLAGE OF KIRKLAND

PASSED April 12, 2024
[Signature]
DISTRICT THREE ENGINEER OF LOCAL ROADS AND STREETS

RELEASEING FOR BID
BASED ON LIMITED REVIEW April 12, 2024
[Signature]
REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- POSITIVE DRAINAGE WITHIN THE WORK ZONE MUST BE MAINTAINED AT ALL TIMES.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ALL UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH ARTICLES 105.07 AND 107.20 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS AND REFERENCE MARKERS UNTIL THE OWNER, OWNER'S REPRESENTATIVE, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
- THE CONTRACTOR SHALL USE NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
- ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT OR MATERIAL SHALL BE STORED OUTSIDE OF THE COUNTY RIGHT OF WAY OR ON PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.

CAUSEWAY AND COFFERDAM CONSTRUCTION

- THE CONTRACTOR SHALL BE AWARE THAT COMMONWEALTH EDISON, NICOR, MEDIACOM AND FRONTIER HAVE UTILITIES RUNNING WITHIN THE RIGHT-OF-WAY OR UTILITY EASEMENT ON THE WEST SIDE OF PEARL STREET.

FOR PURPOSE OF THE DESIGN, IT HAS BEEN ASSUMED THAT CONTRACTOR ACCESS FOR CONSTRUCTION OF COFFERDAMS, CAUSEWAY(S) ETC. WILL BE FROM THE EAST SIDE OF THE ROADWAY.

COMED WILL BE RELOCATING THEIR POWER POLES ON THE NORTH SIDE OF THE RIVER TO BE OUTSIDE OF THE INFLUENCE OF THE BRIDGE CONSTRUCTION TO THE EXTENT POSSIBLE BUT HAVE LIMITATIONS WITH SPAN LENGTH AND PLACEMENT OF POLES WITHIN THE FLOODWAY. CONTRACTOR SHALL COORDINATE WITH COMED IF HIS WORK OPERATIONS REQUIRE INSULATORS OR DEENERGIZATION OF THE OVERHEAD WIRES.

SURVEY DATUM

- THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 88. SEE ALIGNMENT, TIES AND BENCHMARK SHEETS.

DRAIN TILE NOTES

- ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT.
- THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611. THE MINIMUM SIZE FOR REPLACEMENT MUST BE 12 INCH AND SHALL BE PAID FOR PER FOOT AS "FIELD TILE ADJUSTMENT". THE DRAIN PIPE MATERIAL SHALL BE PVC OR CORRUGATED PVC WITH A SMOOTH INTERIOR IN ACCORDANCE WITH SECTION 601. A TYPE A INLET W/ TYPE 1 CLOSED LID WILL BE CONSTRUCTED TO CONNECT THE TILE(S) AND/OR PIPE DRAIN. A NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLAN QUANTITIES.
- PRIOR TO MAKING THE CONNECTION THE CONTRACTOR SHALL CLEAN THE ENDS OF THE TILE TO BE CONNECTED. IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATION THE EXISTING TILE SHALL BE REMOVED OR CRUSHED AND TRENCH BACKFILL MATERIAL SHALL BE PLACED IN THE TRENCH LEFT BY THE REMOVAL.

DISTRICT THREE GENERAL NOTES

- THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

| | | |
|------------------------------|--------|---------------------------|
| GRANULAR MATERIALS | 2.05 | TONS / CU YD |
| HMA RESURFACING | 112 | LBS / SQ YD / IN |
| SHORT TERM PAVEMENT MARKING | 10 | FT /100 FT OF APPLICATION |
| MIX FOR CRACKS, JTS & FLGWYS | 0.0003 | TONS / SQ YD |
| LEVEL BINDER (HAND METHOD) | 0.0005 | TONS / SQ YD |
| SUPPLEMENTAL WATERING | 3 | GAL / SQ YD / APPLICATION |
| CALCIUM CHLORIDE | 2 | LB / SQ YD / APPLICATION |
| AGGREGATE DITCH CHECKS | 5 | TONS AGGREGATE |

- MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

| | | |
|-------------------------|---------------|--------------|
| NICOR | SAKIBUL FORAH | 630-388-2903 |
| COMMONWEALTH EDISON | AHMAD JUNDI | 630-703-3569 |
| FRONTIER COMMUNICATIONS | PAULO JAVIER | 309-820-1242 |
| MEDIACOM | MITCH HANCOCK | 815-797-5103 |

INDEX OF SHEETS

| SHT. NO. | DESCRIPTION |
|----------|--|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, INDEX OF SHEETS AND HIGHWAY STANDARDS |
| 3-9 | SUMMARY OF QUANTITIES |
| 10-11 | EARTHWORK SUMMARY AND GENERAL NOTES |
| 12-13 | SCHEDULE OF QUANTITIES |
| 14-17 | TYPICAL SECTIONS |
| 18 | ALIGNMENT, TIES, AND BENCHMARKS |
| 19 | REMOVAL PLANS |
| 20-21 | PLAN AND PROFILE |
| 22-23 | DETOUR PLANS |
| 24 | EROSION CONTROL / LANDSCAPING PLANS |
| 25-28 | EROSION CONTROL / LANDSCAPING DETAILS |
| 29-30 | DRAINAGE PLAN AND PROFILE |
| 31-32 | PLAT-OF-HIGHWAYS |
| 33 | PAVEMENT MARKING AND SIGNING PLANS |
| 34-67 | BRIDGE PLANS AND DETAILS |
| 68-73 | BRIDGE AS-BUILTS |
| 74-76 | IDOT DISTRICT THREE DETAILS |
| 77-85 | CROSS SECTIONS - PEARL STREET |

DISTRICT THREE DETAILS

| STD. NO. | DESCRIPTION |
|----------|---|
| 406-8 | HMA DETAIL AT BUTT JOINTS |
| 440-2 | REQUIRED COLD MILLED SURFACE TEXTURE |
| 606-4 | REINFORCEMENT DETAIL FOR COMBINATION CONCRETE CURB AND GUTTER |
| 782-3 | REFLECTOR MOUNTING DETAIL FOR STEEL RAILING |

IDOT HIGHWAY STANDARDS

| STD. NO. | DESCRIPTION |
|-----------|---|
| 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 |
| 420401-13 | PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB |
| 482001-02 | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT |
| 515001-04 | NAME PLATE FOR BRIDGES |
| 601001-05 | PIPE UNDERDRAINS |
| 601101-02 | CONCRETE HEADWALL FOR PIPE UNDERDRAINS |
| 606001-08 | CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER |
| 606201-04 | TYPE B GUTTER (INLET, OUTLET & ENTRANCE) |
| 630001-13 | STEEL PLATE BEAM GUARDRAIL |
| 630201-07 | PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631031-18 | TRAFFIC BARRIER TERMINAL, TYPE 6 |
| 631032-10 | TRAFFIC BARRIER TERMINAL, TYPE 6A |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE |
| 701901-09 | TRAFFIC CONTROL DEVICES |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |

MODEL: Model
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0006' / in. | CHECKED - | REVISED + |
| PLOT DATE = 5/10/2024 | DATE = 5/10/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
GENERAL NOTES, INDEX OF SHEETS, AND HIGHWAY STANDARDS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------|--------|--------------|--------------------|
| 6090 | 14-0009-00-BR | DEKALB | 85 | 2 |
| | | | | CONTRACT NO. 87722 |
| ILLINOIS FED. AID PROJECT | | | | |

| SPLTY | PAY CODE REF NO. | DESCRIPTION | UNIT | QUANTITY | CONSTRUCTION TYPE CODE |
|-------|------------------|--|-------|----------|-------------------------------------|
| | | | | | 80% FEDERAL 20% STATE |
| | | | | | BRIDGE REPLACEMENT 0010 URBAN |
| * | 20101100 | TREE TRUNK PROTECTION | EACH | 11 | 11 |
| | | | | | |
| | 20200100 | EARTH EXCAVATION | CU YD | 1,665 | 1,665 |
| | | | | | |
| | 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 908 | 908 |
| | | | | | |
| | 20400800 | FURNISHED EXCAVATION | CU YD | 340 | 340 |
| | | | | | |
| | 20800150 | TRENCH BACKFILL | CU YD | 34 | 34 |
| | | | | | |
| | 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 1,017 | 1,017 |
| | | | | | |
| | 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 4,035 | 4,035 |
| | | | | | |
| * | 25000200 | SEEDING, CLASS 2 | ACRE | 0.25 | 0.25 |
| | | | | | |
| * | 25000210 | SEEDING, CLASS 2A | ACRE | 0.75 | 0.75 |
| | | | | | |
| * | 25000312 | SEEDING, CLASS 4A | ACRE | 0.25 | 0.25 |
| | | | | | |
| * | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 75 | 75 |
| | | | | | |
| * | 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 75 | 75 |
| | | | | | |
| * | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 75 | 75 |
| | | | | | |
| * | 25100630 | EROSION CONTROL BLANKET | SQ YD | 915 | 915 |
| | | | | | |
| * | 25100900 | TURF REINFORCEMENT MAT | SQ YD | 2,843 | 2,843 |
| | | | | | |

MODEL: Debut
 FILE NAME: \\hp01\p01\c\transys\com\transys\p01\Documents\Projects\2024\14-0009-00-BR\14-0009-00-BR-0301 - Standard Sheets\03-50021075-011-500.dwg



| | | |
|-------------------------------|-----------------|-----------|
| USER NAME = brzeszka | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0001 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/30/2024 | CHECKED - | REVISED - |
| | DATE = 5/1/2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
SUMMARY OF QUANTITIES

| | | | | |
|---------------------------|---------------|--------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-0009-00-BR | DEKALB | 85 | 3 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

| SPLTY | PAY CODE REF NO. | DESCRIPTION | UNIT | QUANTITY | CONSTRUCTION TYPE CODE |
|-------|---------------------|--------------------------------------|-------|----------|-------------------------------------|
| | | | | | 80% FEDERAL 20% STATE |
| | | | | | BRIDGE REPLACEMENT 0010 URBAN |
| | 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 165 | 165 |
| | 28000305 | TEMPORARY DITCH CHECKS | FOOT | 203 | 203 |
| | 28000400 | PERIMETER EROSION BARRIER | FOOT | 1,097 | 1,097 |
| | 28001100 | TEMPORARY EROSION CONTROL BLANKET | SQ YD | 4,035 | 4,035 |
| | 28100105 | STONE RIPRAP, CLASS A3 | SQ YD | 6 | 6 |
| | 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 63 | 63 |
| | 28100109 | STONE RIPRAP, CLASS A5 | SQ YD | 1,000 | 1,000 |
| | 28200200 | FILTER FABRIC | SQ YD | 1,069 | 1,069 |
| | 30300001 | AGGREGATE SUBGRADE IMPROVEMENT | CU YD | 339 | 339 |
| | 30300112 | AGGREGATE SUBGRADE IMPROVEMENT 12" | SQ YD | 1,557 | 1,557 |
| | 31101191 | SUBBASE GRANULAR MATERIAL, TYPE B 3" | SQ YD | 455 | 455 |
| | 40200700 | AGGREGATE SURFACE COURSE, TYPE A 8" | SQ YD | 58 | 58 |
| | 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 3,385 | 3,385 |
| | 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 644 | 644 |
| | 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 487 | 487 |

MODEL: Default
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0001' / in. | DRAWN - | REVISED - |
| PLOT DATE = 5/10/2024 | CHECKED - | REVISED - |
| | DATE = 5/10/2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 4 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

EARTHWORK SUMMARY SCHEDULE

| BID ITEM | TOPSOIL | | EARTHWORK | | | | SUBGRADE IMPROVEMENT (UNDERCUTS) | | |
|----------------------------------|--------------------------------|-------------------------------|------------------|-----------------------------------|----------------------|--|---|--------------------------------|--|
| | 20201200** | 21101615 | 20200100 | | | 20400800 | 20201200 | 30300001 | 21001000 |
| | TOPSOIL EXCAVATION (STRIPPING) | TOPSOIL FURNISH AND PLACE, 4" | EARTH EXCAVATION | EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT (ROADWAY) | FURNISHED EXCAVATION BALANCE WASTE (+) OR SHORTAGE (-) | REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL | AGGREGATE SUBGRADE IMPROVEMENT | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION |
| LOCATION | (CU YD) | (SQ YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (SQ YD) |
| PEARL STREET 106+95 TO 114+95 | 427.0 | 4,035.0 | 1,665.0 | 1,416.0 | 1,701.0 | 285.0 | | | |
| UNDERCUT 112+06 TO 114+00 | | | | | | | 283.0 | 283.0 | 849.0 |
| R.E. DESCRETION | | | | | | | 56.0 | 56.0 | 168.0 |
| SOUTH ABUTMENT NORTH ABUTMENT | | | | | | 55.0 | 142.0 | | |
| TOTAL | 427.0 | 4,035.0 | 1,665.0 | | 1,701.0 | 340.0 | 481.0 | 339.0 | 1,017.0 |

** TOPSOIL EXCAVATION WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ALONG THE PROJECT CORRIDOR WERE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.

SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT IS ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE THEIR OWN SHRINKAGE FACTORS IN DETERMINING THEIR EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY RINBINO ENGINEERING, DATED APRIL 11, 2023 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.

NO SHRINKAGE FACTOR WAS APPLIED WHEN CALCULATING TOPSOIL QUANTITIES.

THE AVERAGE THICKNESS OF FOUR (4) INCHES OF TOPSOIL WAS USED FOR THE PURPOSE OF CALCULATING TOPSOIL EXCAVATION (STRIPPING) QUANTITIES.

UNDERCUTS WILL BE MEASURED FOR PAYMENT AS "REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL".

EARTH EXCAVATION WILL ALSO INCLUDE ALL AGGREGATE BASE COURSES, AGGREGATE SUB-BASE'S, AGGREGATE SURFACES AND AGGREGATE SHOULDERS.

UNDERCUTS WILL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL". AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING ARE COMPLETE AND PRIOR TO UNDERCUTTING, THE SUBGRADE IN THE AREAS OF THE PROPOSED ROADWAY WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACCORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.

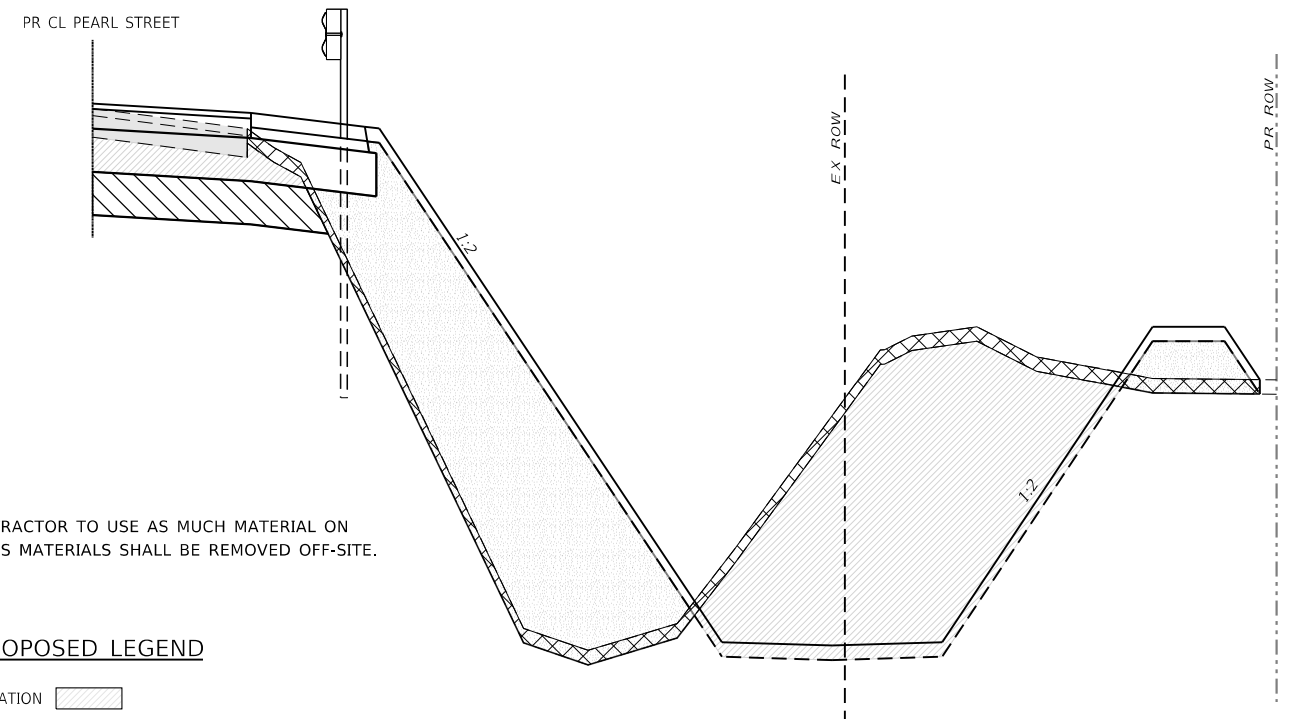
WHERE PAVEMENTS ARE CONSTRUCTED, TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIREMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCLUDED IN THE COST OF EXCAVATION.

BASED ON THE GEOTECHNICAL REPORT, 283 CY OF AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE WHEN WET. AN ADDITIONAL 56 CY HAS BEEN ADDED TO BE USED AT THE DISCRETION OF THE ENGINEER. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) 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 CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT 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.

EARTH AND TOPSOIL EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE TEMPORARY STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

TOPSOIL FURNISH AND PLACE INCLUDES TEMPORARILY STOCKPILING, AND PLACEMENT.

EMBANKMENT (ROADWAY) WILL BE IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS, EMBANKMENT WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION.



SURPLUS MATERIALS

IT IS INTENDED FOR THE CONTRACTOR TO USE AS MUCH MATERIAL ON SITE AS POSSIBLE. ALL SURPLUS MATERIALS SHALL BE REMOVED OFF-SITE.

PROPOSED LEGEND

- ① EARTH EXCAVATION
- ② EMBANKMENT (ROADWAY)
- ③ TOPSOIL EXCAVATION (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
- ④ PAVEMENT AND SUBBASE REMOVAL
- ⑤ UNSUITABLE EXCAVATION (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. TO BE USED IN CONJUNCTION WITH AGGREGATE SUBGRADE IMPROVEMENT)

EARTHWORK TYPICAL SECTION

MODEL: Default
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TRANSYSTEMS

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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
EARTHWORK SUMMARY AND GENERAL NOTES**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 10 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |

EARTHWORK SCHEDULE - PEARL STREET

| LOCATION | END AREAS | | | TOPSOIL | | EARTHWORK | | | | SUBGRADE IMPROVEMENT | | |
|-------------------------|--------------------------------------|------------------------|---------------------------|---|--|---------------------------|-----------------------------------|------------|--|---|---|---|
| | TOPSOIL EXCAVATION (STRIPPING) (TSS) | EARTH EXCAVATION (CUT) | ROADWAY EMBANKMENT (FILL) | 20201200** TOPSOIL EXCAVATION (STRIPPING) | 21101615 TOPSOIL FURNISH AND PLACE, 4" | 20200100 EARTH EXCAVATION | EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT | 20400800 BALANCE WASTE (+) OR SHORTAGE (-) | 20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL | 30300001 AGGREGATE SUBGRADE IMPROVEMENT | 21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION |
| | (SQ FT) | (SQ FT) | (SQ FT) | (CU YD) | (SQ YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (CU YD) | (SQ YD) |
| PEARL STREET | | | | | | | | | | | | |
| 107+00.00 | 1.2 | 37.6 | | | | | | | | | | |
| 107+24.00 | 9.2 | 43.3 | 8.7 | 4.6 | BASED ON SEEDING AREA | 36.0 | 30.6 | 3.9 | 26.7 | BASED ON 10% FULL DEPTH PAVEMENT AREA @ 12" (R.E. DESCRETION) | BASED ON 10% FULL DEPTH PAVEMENT AREA @ 12" (R.E. DESCRETION) | BASED ON 10% FULL DEPTH PAVEMENT AREA (R.E. DESCRETION) |
| 107+50.00 | 26.5 | 134.7 | 132.7 | 17.2 | | 85.7 | 72.9 | 68.1 | 4.8 | | | |
| 107+89.70 | 25.3 | 167.7 | 92.2 | 38.1 | | 222.3 | 189.0 | 165.3 | 23.7 | | | |
| 108+00.00 | 25.9 | 162.8 | 97.0 | 9.8 | | 63.1 | 53.6 | 36.1 | 17.5 | | | |
| 108+50.00 | 35.7 | 181.9 | 145.7 | 57.0 | | 319.2 | 271.3 | 224.7 | 46.6 | | | |
| 109+00.00 | 38.2 | 160.7 | 177.7 | 68.4 | | 317.3 | 269.7 | 299.5 | -29.8 | | | |
| 109+25.00 | 33.7 | 138.4 | 168.0 | 33.3 | | 138.5 | 117.7 | 160.1 | -42.4 | | | |
| 109+54.00 | 34.0 | 119.6 | 87.0 | 36.3 | | 138.5 | 117.8 | 136.9 | -19.2 | | | |
| BRIDGE | | | | | | | | | | | | |
| 111+78.00 | 21.6 | 1.1 | 229.6 | | | | | | | | | |
| 112+00.00 | 20.0 | 1.3 | 194.2 | 16.9 | | 1.0 | 0.8 | 172.7 | -171.8 | 11.6 | 11.6 | 34.7 |
| 112+50.00 | 20.3 | 61.3 | 94.4 | 37.3 | | 57.9 | 49.2 | 267.2 | -218.0 | 55.9 | 55.9 | 167.6 |
| 112+96.50 | 25.5 | 63.3 | 34.2 | 39.4 | | 107.3 | 91.2 | 110.8 | -19.6 | 58.8 | 58.8 | 176.3 |
| 113+50.00 | 11.6 | 40.1 | 9.9 | 36.7 | | 102.4 | 87.1 | 43.8 | 43.3 | 71.3 | 71.3 | 214.0 |
| 114+00.00 | 3.9 | 7.5 | 0.4 | 14.3 | | 44.1 | 37.5 | 9.6 | 27.9 | 64.3 | 64.3 | 192.8 |
| 114+33.80 | 8.9 | 15.4 | 0.3 | 8.0 | | 14.3 | 12.2 | 0.4 | 11.7 | 21.1 | 21.1 | 63.2 |
| 114+50.00 | 4.4 | 6.3 | 1.3 | 4.0 | | 6.5 | 5.5 | 0.5 | 5.0 | | | |
| 114+95.00 | 1.4 | 6.7 | | 4.9 | | 10.8 | 9.2 | 1.1 | 8.1 | | | |
| SHRINKAGE FACTOR | | 15% | | 426.1 | 3681.0 | 1664.8 | 1415.1 | 1700.5 | -285.4 | 282.9 | 282.9 | 848.6 |
| | | | | 426.0 | 3681.0 | 1665.0 | 1415.0 | 1701.0 | -285.0 | 283.0 | 283.0 | 849.0 |

** TOPSOIL EXCAVATION WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

MODEL: Default
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 PROJECT: 2021\CH01\1401210075\Road\03.01 - Standard Sheets\04 - Schedule of Quantities\01.dgn



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|------------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
EARTHWORK SCHEDULE**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------|------------------|--------------|-----------|
| 6090 | 14-0009-00-BR | DEKALB | 85 | 11 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

RESTORATION ITEMS

| LOCATION | 21101615 | 25000200 | 25000210 | 25000312 | 25000400 | 25000500 | 25000600 |
|-----------------------|-------------------------------|------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|
| | TOPSOIL FURNISH AND PLACE, 4" | SEEDING, CLASS 2 | SEEDING, CLASS 2A | SEEDING, CLASS 4A | NITROGEN FERTILIZER NUTRIENT | PHOSPHORUS FERTILIZER NUTRIENT | POTASSIUM FERTILIZER NUTRIENT |
| | (SQ YD) | (ACRES) | (ACRES) | (ACRES) | (POUNDS) | (POUNDS) | (POUNDS) |
| STA. 106+95 to 110+50 | 2409 | 0.25 | 0.25 | 0.25 | 45 | 45 | 45 |
| STA. 110+50 to 114+95 | 1626 | | 0.50 | | 30 | 30 | 30 |
| TOTAL | 4035 | 0.25 | 0.75 | 0.25 | 75 | 75 | 75 |

EROSION CONTROL ITEMS

| LOCATION | 25100630 | 25100900 | 28000250 | 28000305 | 28000400 | 28001100 | 28100105 | 28100107 | 28100109 | 282200200 |
|-----------------------|-------------------------|------------------------|-----------------------------------|------------------------|---------------------------|-----------------------------------|------------------------|------------------------|------------------------|---------------|
| | EROSION CONTROL BLANKET | TURF REINFORCEMENT MAT | TEMPORARY EROSION CONTROL SEEDING | TEMPORARY DITCH CHECKS | PERIMETER EROSION BARRIER | TEMPORARY EROSION CONTROL BLANKET | STONE RIPRAP, CLASS A3 | STONE RIPRAP, CLASS A4 | STONE RIPRAP, CLASS A5 | FILTER FABRIC |
| | (SQ YD) | (SQ YD) | (POUND) | (FOOT) | (FOOT) | (SQ YD) | (SQ YD) | (SQ YD) | (SQ YD) | (SQ YD) |
| STA. 106+95 to 110+50 | 750 | 1659 | 100 | 100 | 454 | 2409 | | 63 | 622 | 685 |
| STA. 110+50 to 114+95 | 165 | 1184 | 65 | 84 | 543 | 1626 | 6 | | 378 | 384 |
| MAINTENANCE | | | | 19 | 100 | | | | | |
| TOTAL | 915 | 2843 | 165 | 203 | 1097 | 4035 | 6 | 63 | 1000 | 1069 |

PAVEMENT ITEMS

| LOCATION | 30300112 | 31101191 | 40200700 | 40600370 | 40603080 | 40604050 | 48100600 | 48203013 | Z0004514 |
|-----------------------|------------------------------------|--------------------------------------|-------------------------------------|----------------------------|---|--|--------------------------------|-------------------------------|---------------------------------------|
| | AGGREGATE SUBGRADE IMPROVEMENT 12" | SUBBASE GRANULAR MATERIAL, TYPE B 3" | AGGREGATE SURFACE COURSE, TYPE A 8" | LONGITUDINAL JOINT SEALANT | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50 | AGGREGATE SHOULDERS, TYPE A 7" | HOT-MIX ASPHALT SHOULDERS, 4" | HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4" |
| | (SQ YD) | (SQ YD) | (SQ YD) | (FOOT) | (TON) | (TON) | (SQ YD) | (SQ YD) | (SQ YD) |
| STA. 106+95 to 110+50 | 857 | 243 | 27 | 214 | 146 | 59 | 0 | 243 | 108 |
| STA. 110+50 to 114+95 | 700 | 212 | 31 | 273 | 105 | 77 | 37 | 212 | 50 |
| TOTAL | 1557 | 455 | 58 | 487 | 251 | 136 | 37 | 455 | 158 |

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| | | |
|------------------------------|------------------|-----------|
| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 5/10/2024 | DATE - 5/10/2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|----------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 12 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |

DRAINAGE ITEMS

| LOCATION | 54210202 | 542C0220 | 542C0265 | 60100060 | 60108100 | 60108501 |
|-----------------------|-----------------|------------------------------------|------------------------------------|------------------------------------|-------------------------------|--------------------------|
| | PIPE ELBOW, 60" | PIPE CULVERTS, CLASS C, TYPE 1 15" | PIPE CULVERTS, CLASS C, TYPE 1 60" | CONCRETE HEADWALLS FOR PIPE DRAINS | PIPE UNDERDRAINS 4" (SPECIAL) | PIPE UNDERDRAINS, TYPE 3 |
| | (EACH) | (FOOT) | (FOOT) | (EACH) | (FOOT) | (FOOT) |
| STA. 106+95 to 110+50 | 2 | | | 3 | 23 | 448 |
| STA. 110+50 to 114+95 | | 80 | 26 | 3 | 7 | 326 |
| TOTAL | 2 | 80 | 26 | 6 | 30 | 774 |

GAURDRAIL & PAVEMENT MARKING ITEMS

| LOCATION | 63000003 | 63100087 | 63100167 | 72501000 | 78001110 | 78200005 |
|-----------------------|--|-----------------------------------|--|----------------------------------|----------------------------------|------------------------------|
| | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | TRAFFIC BARRIER TERMINAL, TYPE 6A | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | TERMINAL MARKER - DIRECT APPLIED | PAINT PAVEMENT MARKING - LINE 4" | GUARDRAIL REFLECTORS, TYPE A |
| | (FOOT) | (EACH) | (EACH) | (EACH) | (FOOT) | (EACH) |
| STA. 106+95 to 110+50 | 150 | 2 | 2 | 2 | 2856 | 6 |
| STA. 110+50 to 114+95 | 62.5 | 2 | 2 | 2 | 3560 | 5 |
| TOTAL | 212.5 | 4 | 4 | 4 | 6416 | 11 |

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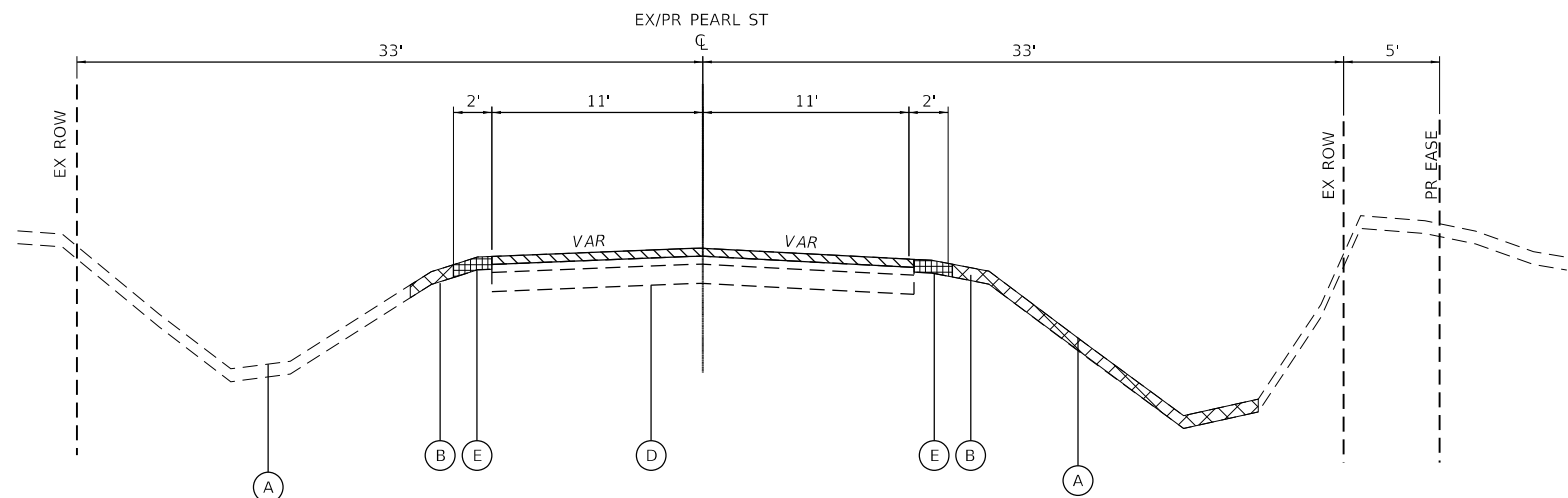
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| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/30/2024 | DATE - 5/1/2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|----------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 13 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |



EXISTING TYPICAL SECTION NO. 3
 PEARL STREET
 STA 113+75.00 TO STA 114+95.00

EXISTING LEGEND

- (A) EX GROUND
- (B) EX TOPSOIL, AVG. 4"
- (C) EX PAVEMENT STRUCTURE
ASPHALT PAVEMENT, 2"
AGGREGATE BASE, 4"-10"
- (D) EX PAVEMENT STRUCTURE
ASPHALT PAVEMENT, 4.5"-5"
AGGREGATE BASE, 6"-8"
- (E) EX AGGREGATE SHOULDER, 6"

- ASPHALT PAVEMENT - TO BE REMOVED FULL DEPTH
- ASPHALT PAVEMENT - TO BE SURFACE MILLED
- AGGREGATE BASE / SHOULDERS - TO BE REMOVED
(PAID AS EARTH EXCAVATION)
- TOPSOIL EXCAVATION

MODEL: Default
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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 10.0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE - 4/4/2024 | REVISED - |

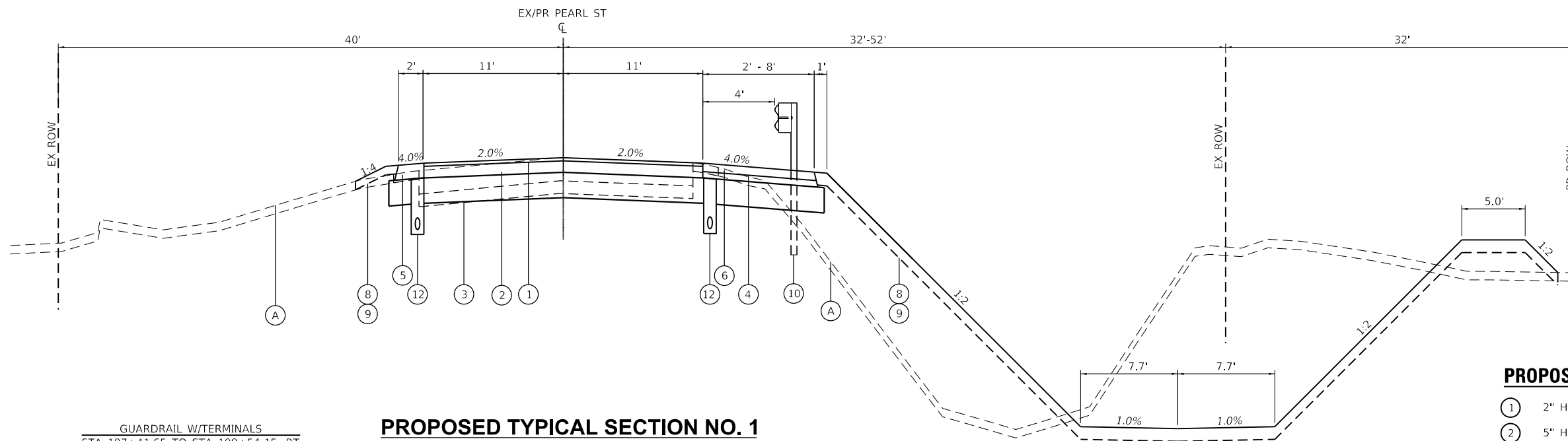
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 EXISTING TYPICAL SECTIONS**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

| | | | | |
|-----------|----------------|--------|------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 15 |
| ILLINOIS | | | FED. AID PROJECT | |

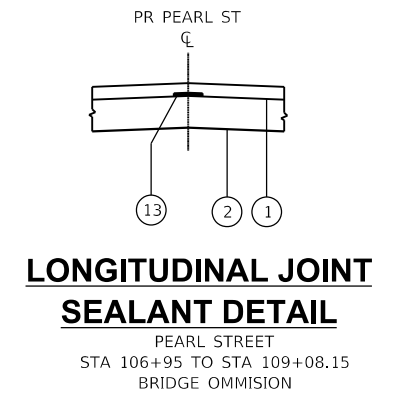
CONTRACT NO. 87722



GUARDRAIL W/TERMINALS
STA 107+41.65 TO STA 109+54.15, RT

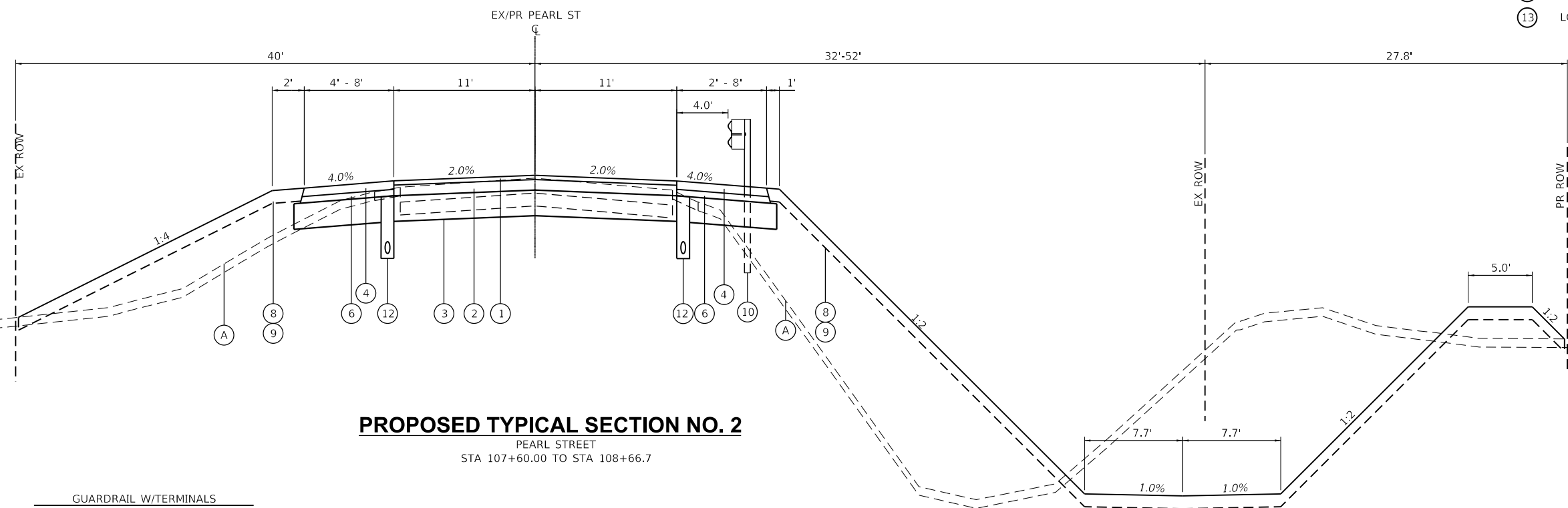
PROPOSED TYPICAL SECTION NO. 1

PEARL STREET
STA 106+95.00 TO STA 107+60.00



PROPOSED LEGEND

- ① 2" HMA SURFACE COURSE, MIX "C", IL-9.5, N50
- ② 5" HMA BINDER COURSE, IL-19.0, N50
- ③ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ④ HOT MIX ASPHALT SHOULDER, 4"
- ⑤ AGREGATE SHOULDER, 7"
- ⑥ SUBBASE GRANULAR MATERIAL, 3"
- ⑦ EMBANKMENT (ROADWAY)
- ⑧ 4" TOPSOIL PLACEMENT
- ⑨ SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- ⑩ STEEL PLATE BEAM GUARDRAIL, TYPE A (9 FOOT POST)
- ⑪ GUARDRAIL DELINEATOR
- ⑫ UNDERDRAIN, TYPE 3
- ⑬ LONGITUDINAL JOINT SEALANT



GUARDRAIL W/TERMINALS
STA 107+41.65 TO STA 109+54.15, RT

PROPOSED TYPICAL SECTION NO. 2

PEARL STREET
STA 107+60.00 TO STA 108+66.7

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TRANSYSTEMS

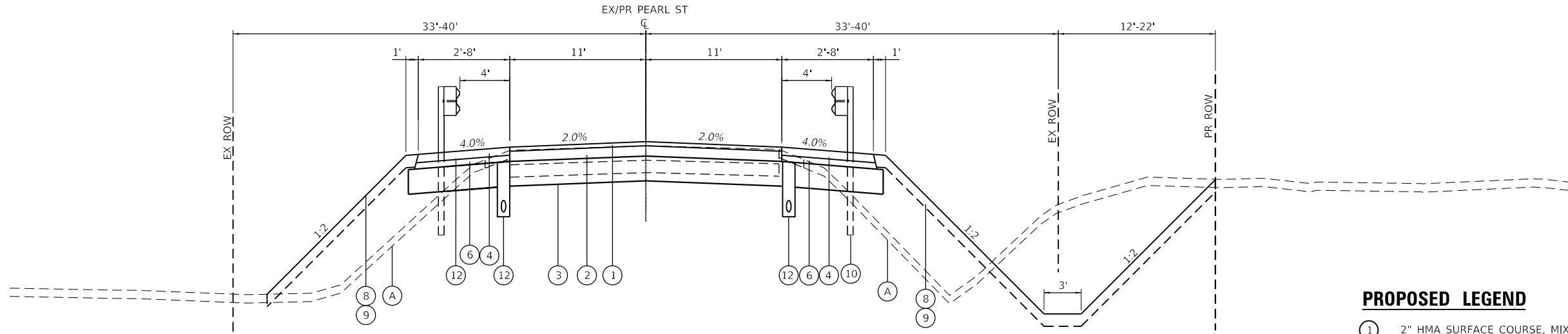
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| PLOT SCALE = 10.0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
PROPOSED TYPICAL SECTIONS**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

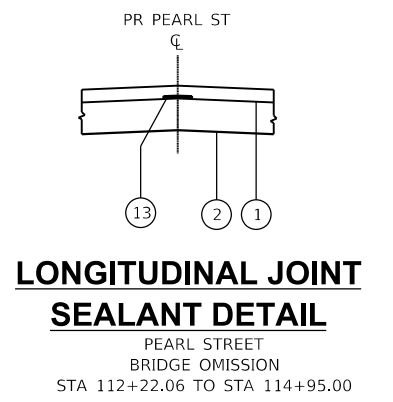
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| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 16 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |



PROPOSED TYPICAL SECTION NO. 3

PEARL STREET
 STA 108+66.7 TO STA 109+08.15
 BRIDGE OMISSION
 STA 112+22.06 TO STA 113+75.00

GUARDRAIL W/TERMINALS
 STA 108+66.7 TO STA 109+54.15, LT/RT
 BRIDGE OMISSION
 STA 111+76.06 TO STA 112+76.05, LT
 STA 111+76.06 TO STA 112+88.56, RT

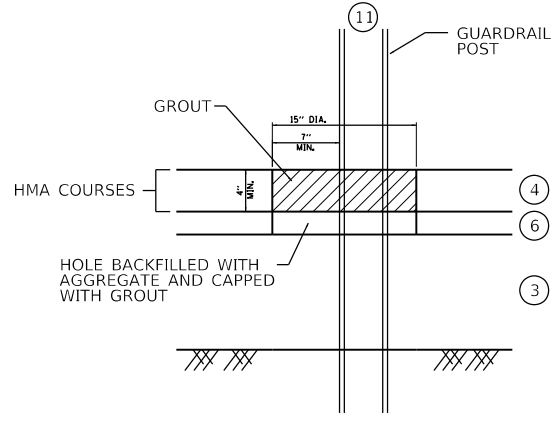


LONGITUDINAL JOINT SEALANT DETAIL

PEARL STREET
 BRIDGE OMISSION
 STA 112+22.06 TO STA 114+95.00

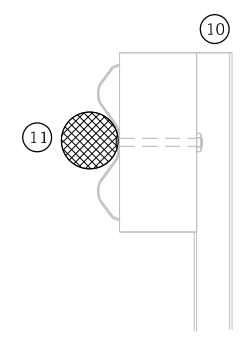
PROPOSED LEGEND

- ① 2" HMA SURFACE COURSE, MIX "C", IL-9.5, N50
- ② 5" HMA BINDER COURSE, IL-19.0, N50
- ③ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ④ HOT MIX ASPHALT SHOULDER, 4"
- ⑤ AGREGATE SHOULDER, 7"
- ⑥ SUBBASE GRANULAR MATERIAL, 3"
- ⑦ EMBANKMENT (ROADWAY)
- ⑧ 4" TOPSOIL PLACEMENT
- ⑨ SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- ⑩ STEEL PLATE BEAM GUARDRAIL, TYPE A (9 FOOT POST)
- ⑪ GUARDRAIL DELINEATOR
- ⑫ UNDERDRAIN, TYPE 3
- ⑬ LONGITUDINAL JOINT SEALANT



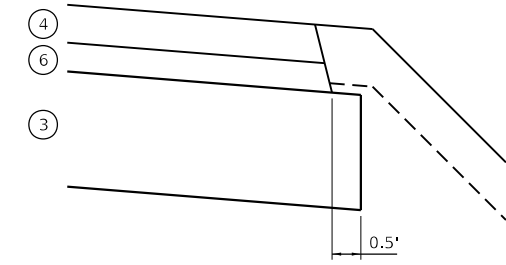
GUARDRAIL BLOCKOUT/GROUT DETAIL

SEE STD. 630201 FOR ADDITIONAL DETAILS



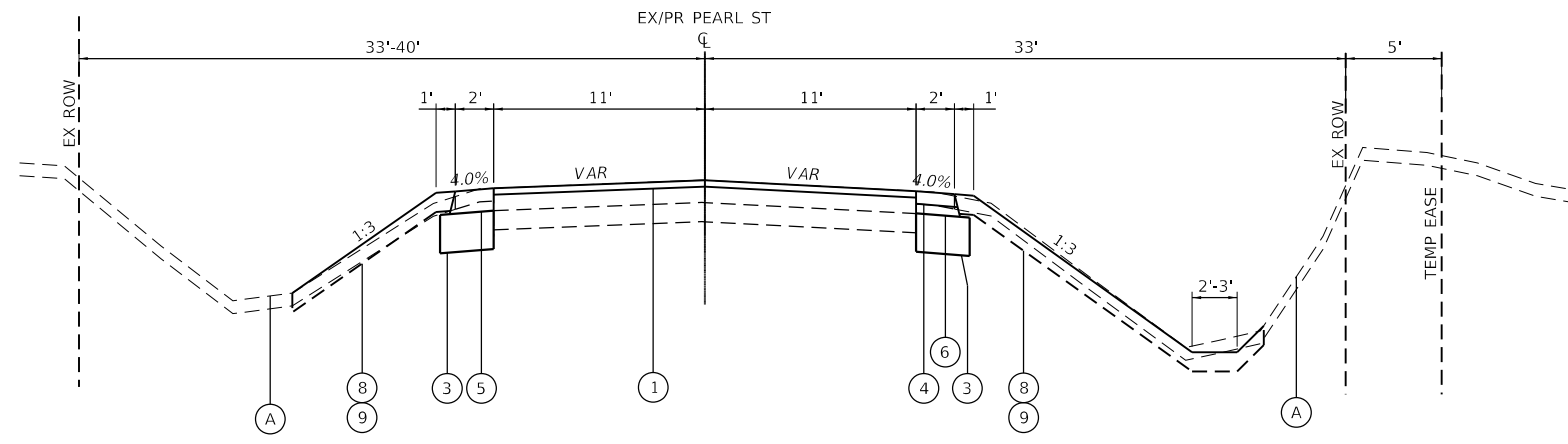
GUARDRAIL REFLECTOR

SEE PAVEMENT MARKING SHEET NO. \$PMK1 AND SPECIAL PROVISIONS FOR ADD'L INFORMATION



AGGREGATE BASE WIDTH

AGGREGATE SUBGRADE IMPROVEMENT SHALL BE PLACED FULL WIDTH OF ROADWAY AND TO 0.5' BEYOND THE SHOULDER EDGE



PROPOSED TYPICAL SECTION NO. 5

PEARL STREET
 STA 113+75.00 TO STA 114+95.00

HMA MIXTURE REQUIREMENT TABLE

| LOCATIONS: | ENTIRE PROJECT | ENTIRE PROJECT | ENTIRE PROJECT | ENTIRE PROJECT |
|--|----------------|----------------|--------------------------|-----------------------|
| MIXTURE USE(S): | HMA BINDER | HMA SURFACE | HMA SHOULDER BOTTOM LIFT | HMA SHOULDER TOP LIFT |
| BINDER GRADE (PG): | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS: | 4.0% @ N50 | 4.0% @ N50 | 4.0% @ N50 | 4.0% @ N50 |
| MIXTURE COMPOSITION: (MIXTURE GRADATION) | IL 19.0 | IL 9.5 | IL 19.0 | IL 9.5 |
| FRICTION AGGREGATE: | | MIXTURE C | | |
| MIXTURE WEIGHT: | 112.0 LB/SY/IN | 112.0 LB/SY/IN | 112.0 LB/SY/IN | 112.0 LB/SY/IN |
| QUALITY MANAGEMENT PROGRAM: | QCQA | QCQA | QCQA | QCQA |
| SUBLOT SIZE: | N/A | N/A | N/A | N/A |
| DENSITY TEST METHOD: | CORES/NUCLEAR | CORES/NUCLEAR | CORES/NUCLEAR | CORES/NUCLEAR |
| MATERIAL TRANSFER DEVICE (REQUIRED): | NO | NO | NO | NO |

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 USER: bmsetzke



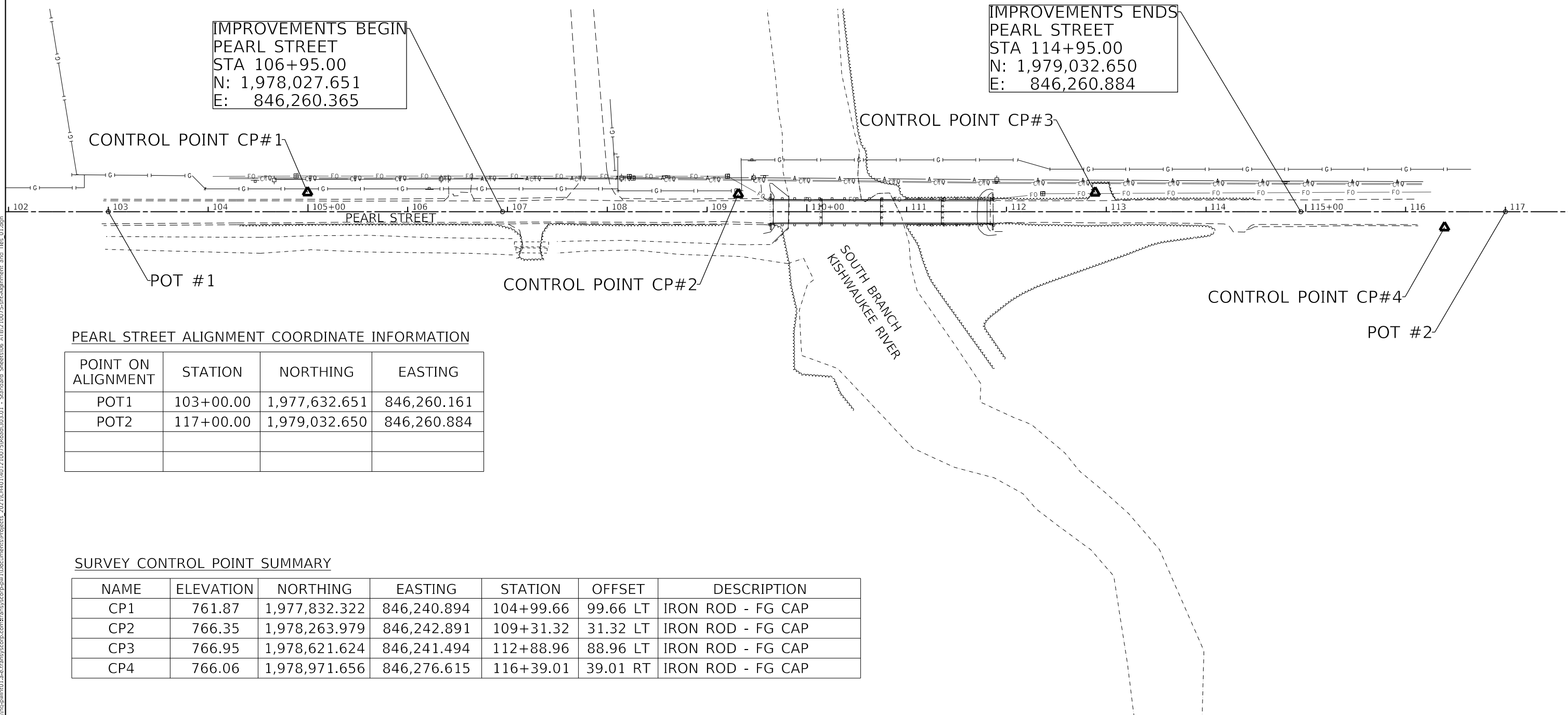
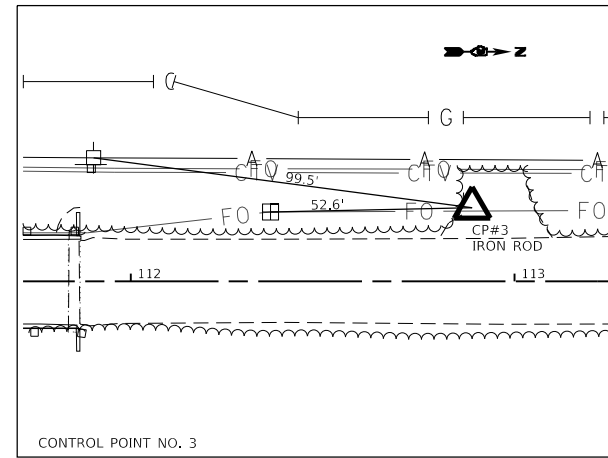
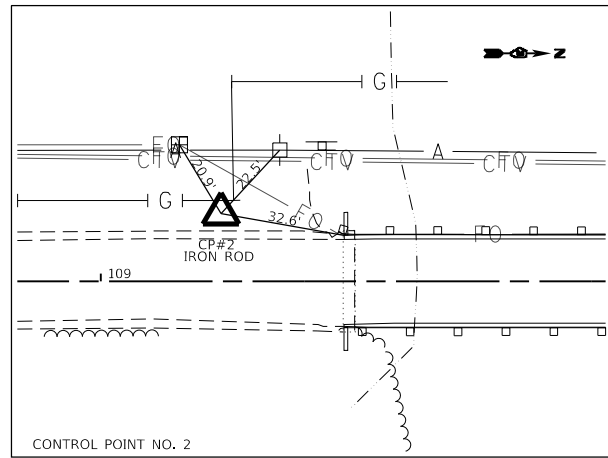
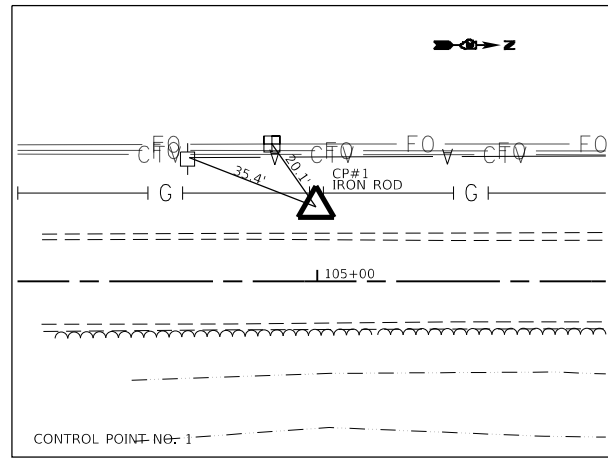
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| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| PLOT SCALE = 10.0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/30/2024 | CHECKED - | REVISED - |
| | DATE - 5/1/2024 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 PROPOSED TYPICAL SECTIONS

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|--------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 17 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |



PEARL STREET ALIGNMENT COORDINATE INFORMATION

| POINT ON ALIGNMENT | STATION | NORTHING | EASTING |
|--------------------|-----------|---------------|-------------|
| POT1 | 103+00.00 | 1,977,632.651 | 846,260.161 |
| POT2 | 117+00.00 | 1,979,032.650 | 846,260.884 |
| | | | |
| | | | |

SURVEY CONTROL POINT SUMMARY

| NAME | ELEVATION | NORTHING | EASTING | STATION | OFFSET | DESCRIPTION |
|------|-----------|---------------|-------------|-----------|----------|-------------------|
| CP1 | 761.87 | 1,977,832.322 | 846,240.894 | 104+99.66 | 99.66 LT | IRON ROD - FG CAP |
| CP2 | 766.35 | 1,978,263.979 | 846,242.891 | 109+31.32 | 31.32 LT | IRON ROD - FG CAP |
| CP3 | 766.95 | 1,978,621.624 | 846,241.494 | 112+88.96 | 88.96 LT | IRON ROD - FG CAP |
| CP4 | 766.06 | 1,978,971.656 | 846,276.615 | 116+39.01 | 39.01 RT | IRON ROD - FG CAP |

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PROJECT: 2021\CH401\4012\10075\Recon\303.01 - Standard_Sheets\06.dwg



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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

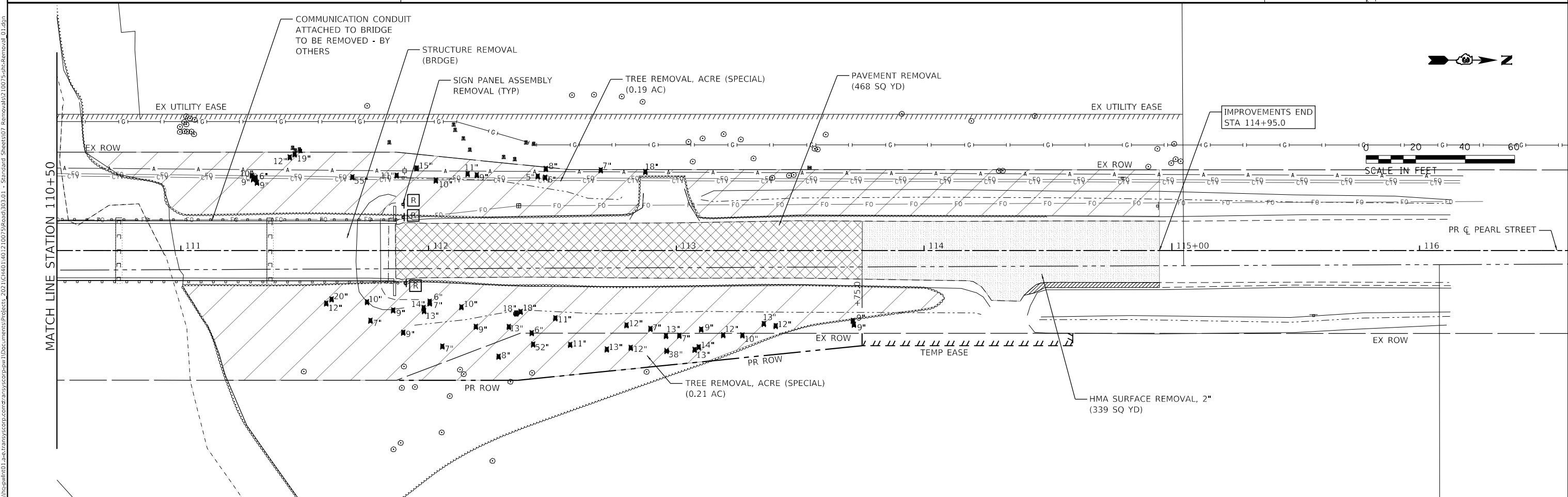
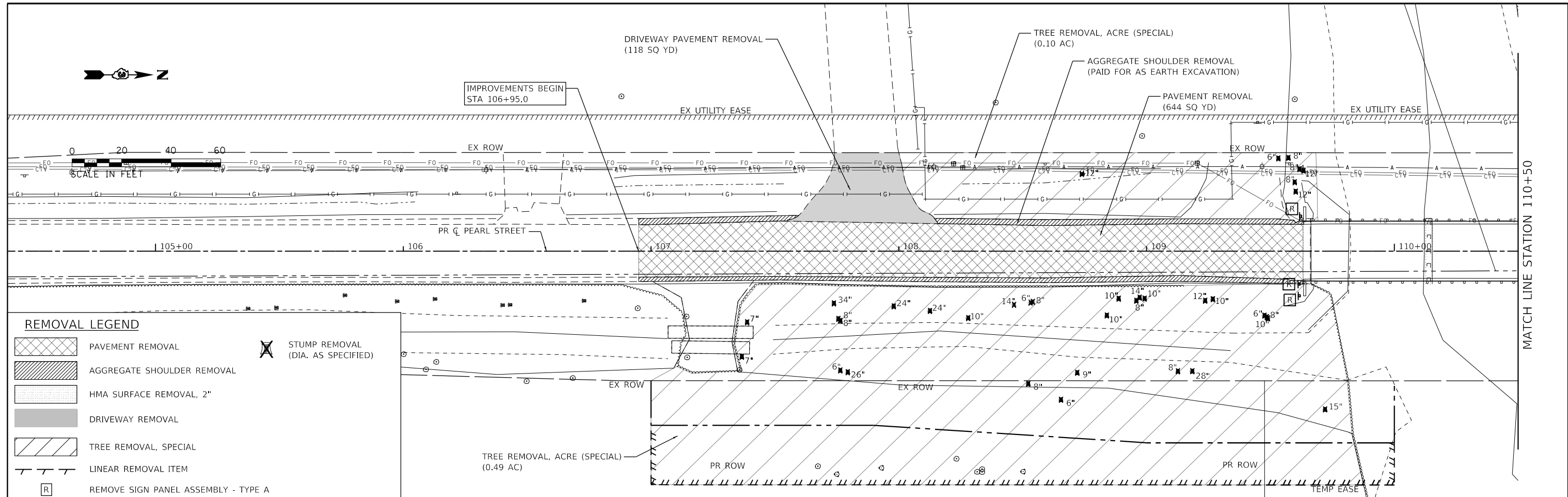
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=50'

SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|------------------------|---------------|---------------------------|--------------|
| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 18 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |



| | | |
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| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/30/2024 | CHECKED - | REVISED - |
| | DATE = 5/1/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
REMOVAL PLANS**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 109+95.00 TO STA. 114+95.00

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 19 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |

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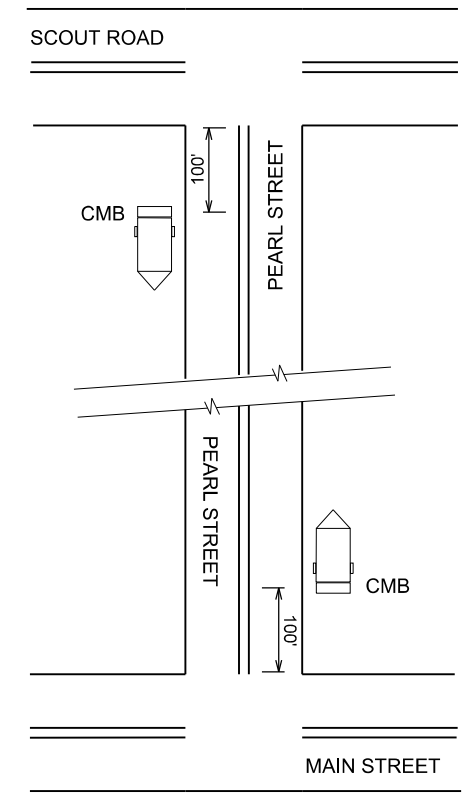
DETOUR GENERAL NOTES:

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY, 1, 2022", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010, "THE DETAILS IN THESE PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL APPROVE THE HOUR OF CLOSURE. THE CONTRACTOR WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ALL MUNICIPALITIES, TOWNSHIPS, COUNTY ENTITIES, AND OTHER STAKEHOLDERS WITHIN AND ADJACENT TO THE DETOUR. THE FOLLOWING IS THE LIST OF APPLICABLE CONTACTS.

| | | | |
|----------------------------------|----------------------|--------------------|--------------|
| KANE COUNTY SHERIFF'S OFFICE | SHERIFF | RON HAIN | 630-232-6840 |
| BIG ROCK TOWNSHIP | HIGHWAY COMMISSIONER | WADE THOMPSON | 630-556-4331 |
| KANEVILLE TOWNSHIP | HIGHWAY COMMISSIONER | DALE PIERSON | 630-557-2858 |
| HINCKLEY POLICE DEPARTMENT | POLICE CHIEF | KEN GETTEMY | 815-286-7465 |
| BIG ROCK FIRE DISTRICT | FIRE CHIEF | JOHN RUH | 630-556-3214 |
| HINCKLEY-BIG ROCK CUSD#429 | SUPERINTENDENT | DR. TRAVIS MCGUIRE | 815-286-7578 |
| BIG ROCK POST OFFICE | POSTMASTER | CINDY J. CLARK | 630-556-3177 |
| KANE COUNTY EMERGENCY MANAGEMENT | | | 630-232-5985 |

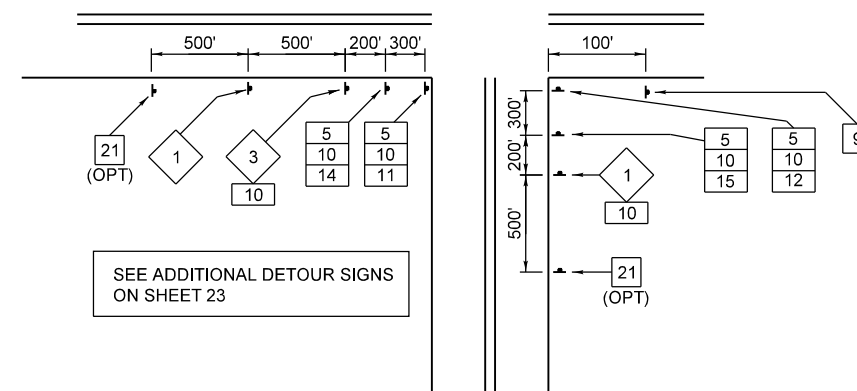
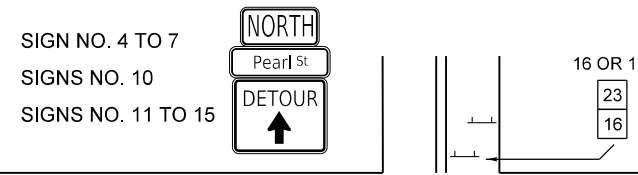
- THE CONTRACTOR WILL FIELD MARK THE POSITIONS OF ALL SIGN AT LEAST SEVENTY-TWO HOURS PRIOR TO THE PLACING THE SIGNS SO THE ENGINEER CAN VERIFY THE POSITIONS OF ANY SIGNS.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, SPECIAL".
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.
- ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AT A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.

- WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18"X 18".
- ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8 FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- THE "ROAD CLOSED" (R11-2), SIGN SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
- THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON THE FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 4.5" LOWER CASE.
- DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
- THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:
STANDARD 701901
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE CONTRACTOR WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND STAKEHOLDERS.



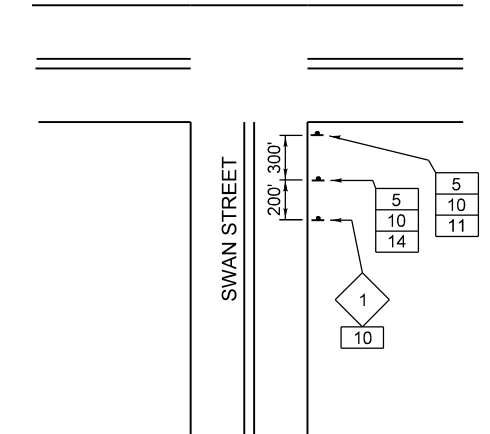
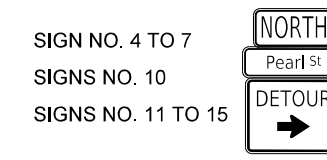
CHANGABLE MESSAGE BOARD LOCATION

TYPICAL DETOUR ASSEMBLY SIGN



TYPICAL MAJOR INTERSECTION AT POINT OF DETOUR

TYPICAL DETOUR ASSEMBLY SIGN



TYPICAL MINOR RURAL INTERSECTION ALONG DETOUR ROUTE

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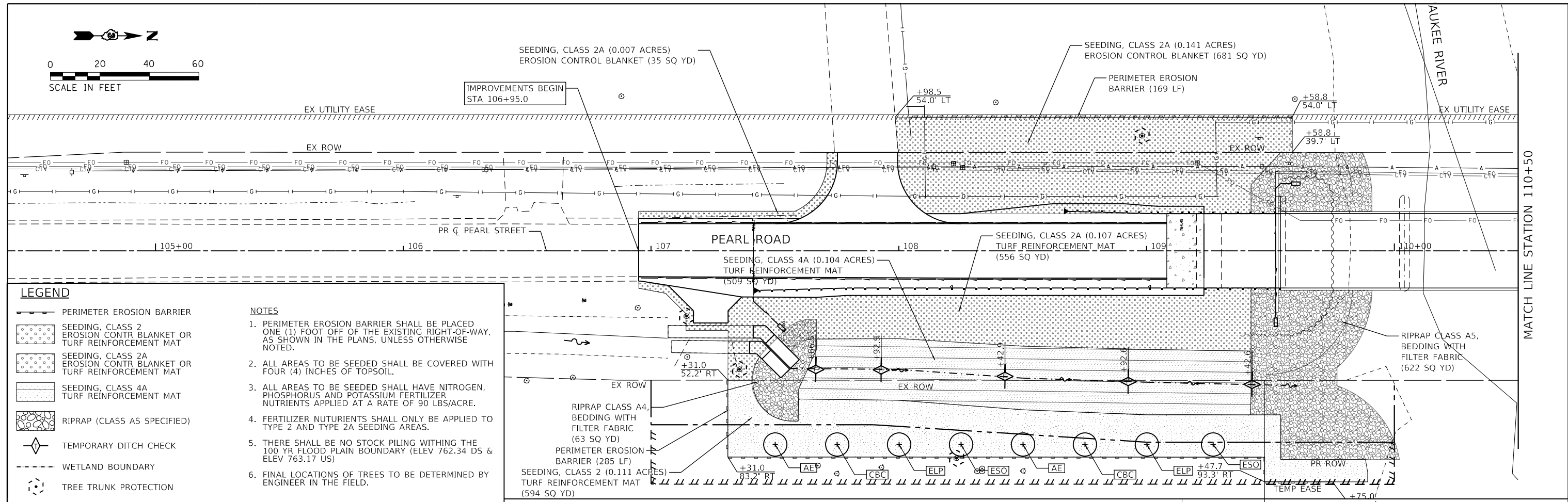
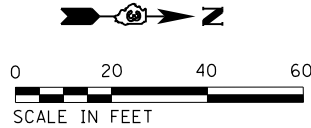
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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 800.2427' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHAWAUKEE RIVER
DETOUR NOTES**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 22 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |



LEGEND

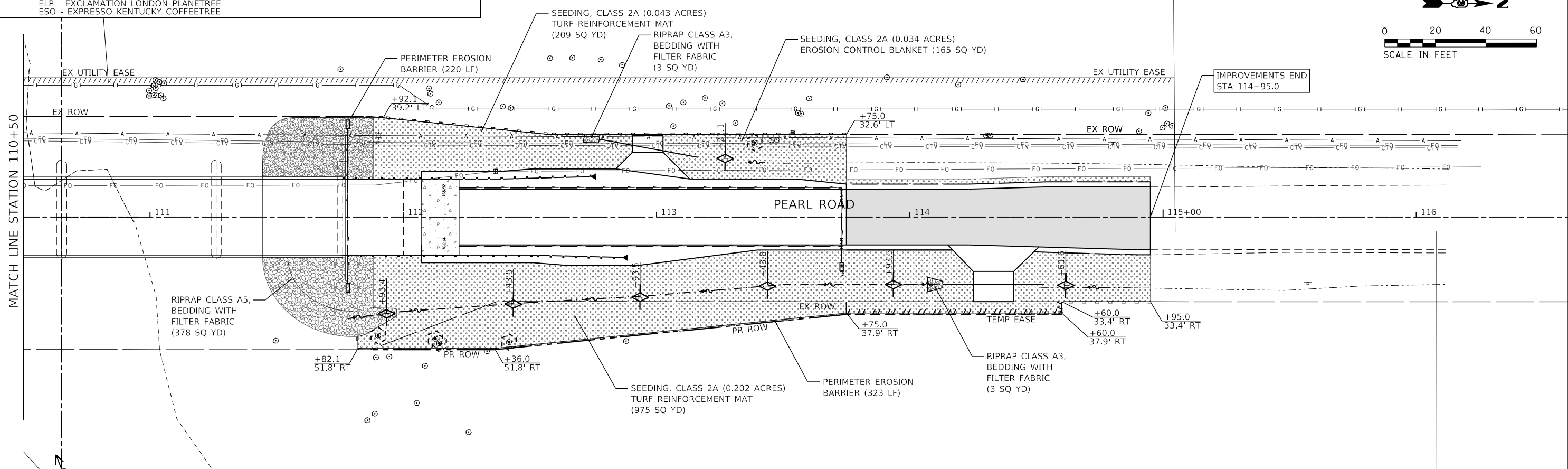
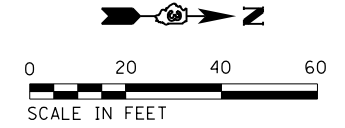
- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2 EROSION CONTR BLANKET OR TURF REINFORCEMENT MAT
- SEEDING, CLASS 2A EROSION CONTR BLANKET OR TURF REINFORCEMENT MAT
- SEEDING, CLASS 4A TURF REINFORCEMENT MAT
- RIPRAP (CLASS A5 SPECIFIED)
- TEMPORARY DITCH CHECK
- WETLAND BOUNDARY
- TREE TRUNK PROTECTION
- PROPOSED TREE
 AE - ACCOLADE ELM
 CBC - COMMON BALD CYPRESS
 ELP - EXCLAMATION LONDON PLANETREE
 ESO - EXPRESSO KENTUCKY COFFEETREE

NOTES

1. PERIMETER EROSION BARRIER SHALL BE PLACED ONE (1) FOOT OFF OF THE EXISTING RIGHT-OF-WAY, AS SHOWN IN THE PLANS, UNLESS OTHERWISE NOTED.
2. ALL AREAS TO BE SEEDED SHALL BE COVERED WITH FOUR (4) INCHES OF TOPSOIL.
3. ALL AREAS TO BE SEEDED SHALL HAVE NITROGEN, PHOSPHORUS AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE.
4. FERTILIZER NUTRIENTS SHALL ONLY BE APPLIED TO TYPE 2 AND TYPE 2A SEEDING AREAS.
5. THERE SHALL BE NO STOCK PILING WITHING THE 100 YR FLOOD PLAIN BOUNDARY (ELEV 762.34 DS & ELEV 763.17 US)
6. FINAL LOCATIONS OF TREES TO BE DETERMINED BY ENGINEER IN THE FIELD.

MATCH LINE STATION 110+50

MATCH LINE STATION 110+50



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| USER NAME = bmsetzke | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/30/2024 | CHECKED - | REVISED - |
| | DATE = 5/1/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
EROSION CONTROL AND RESTORATION PLANS**

SCALE: 1" = 20' SHEET 1 OF 5 SHEETS STA. 106+95.00 TO STA. 114+95.00

| | | | | |
|---------------------------|------------------------|---------------|--------------------|--------------|
| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 24 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

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EROSION CONTROL INSPECTION

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.

WINTER SHUT DOWN

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT. BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCES REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

TEMPORARY DITCH CHECKS

TEMPORARY DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY OR PERMANENT DITCHES. THE LOCATION OF TEMPORARY DITCH CHECKS ARE SHOWN ON THE PLANS. THE EXACT LOCATION MAY REQUIRE FIELD ADJUSTMENT AND WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER. THE QUANTITIES INCLUDE A PLAN ALLOWANCE OF TEMPORARY DITCH CHECKS FOR MAINTENANCE PURPOSES. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PERIMETER EROSION BARRIER (SILT FENCE)

PERIMETER EROSION CONTROL BARRIER (SILT FENCE) SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS. THE PERIMETER EROSION CONTROL BARRIER SHALL BE CONSTRUCTED AS DETAILED ON THE PLANS AND AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

STOCKPILE LOCATIONS AND PROTECTING STOCK PILE AREAS

STOCKPILES SHOULD NOT BE PLACED IN OR NEAR CRITICAL AREAS, OR AREAS THAT HAVE HIGH POTENTIAL FOR CONTRIBUTING SEDIMENTS TO STORMWATER FACILITIES.

CONTRACTOR MAY OPT TO STOCKPILE MATERIAL. STAGING OF THE PROJECT IS AT THE DISCRETION OF THE CONTRACTOR AND COORDINATION APPROVAL OF STOCK PILE LOCATIONS WITH THE ENGINEER. STOCKPILES OF SOIL AND OTHER CONSTRUCTION MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

STABILIZED CONSTRUCTION AREA

WHEN CONSTRUCTION OPERATIONS PREVENT INSTALLATION OF PERMANENT STABILIZATION OF THE CONSTRUCTION AREA THE CONTRACTOR SHALL INSTALL TEMPORARY STABILIZATION (EROSION CONTROL FENCE, DITCH CHECKS) AT END OF EACH WORK DAY TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING ANY ACTIVE WATERWAY.

PERMANENT STABILIZATION OF THE CONSTRUCTION AREA SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING.

WORK IN FLOWING WATER

NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS. SEE ADDITIONAL IN-STREAM NOTES.

DEWATERING

WHEN DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE APPROVED BY THE ENGINEER. ALL FILTER BAGS MUST HAVE SECONDARY CONTAINMENT DEVICES, AND SHOULD BE PLACED ON LEVEL GROUND. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL CREEK. THE DISCHARGE SHALL BE DESIGNED SO THAT RETURNING WATERS DO NOT CAUSE EROSION. THE CONTRACTOR WILL COORDINATE THE METHOD, DESIGN AND LOCATION OF THE DEWATERING PLAN AND FILTER BAG(S) WITH ENGINEER THE PRE-CONSTRUCTION MEETING.

DEWATERING AND FILTERING BAG SYSTEMS REQUIRED FOR ALL CONSTRUCTION OPERATIONS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE RELATED WORK ITEM REQUIRING DEWATERING. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER AND TO PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE CREEK.

KEEPING PAVEMENTS CLEAN

THE CONTRACTOR WILL KEEP ALL PERMANENT PAVEMENT SURFACES CLEAN OF DIRT OR CONSTRUCTION DEBRIS. THE PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAYS OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER IF THE DEBRIS IS DEEMED TO BE A HAZARD TO THE MOTORING PUBLIC.

| STABILIZATION TYPE | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. |
|--------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| PERMANENT SEEDING | | | | A | | | | A | | | | |
| DORMANT SEEDING | B | | | | | | | | | | B | |
| TEMPORARY SEEDING | | | C | | | | | | | | | |
| EROSION CONTROL | | | D | | | | | | | | | |

- A. CLASS 2
CLASS 2A
CLASS 4A
 - B. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING (NOT ANTICIPATED)
 - C. TEMPORARY SEEDING (PERENNIAL RYE GRASS, SPRING OATS)
 - D. TEMPORARY AND PERMENENT EROSION CONTROL BLANKET
- * IRRIGATION MAY BE NEEDED DURING JUNE AND JULY (INCLUDED IN SEEDING)

NOTE: SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES AND THE SPECIAL PROVISIONS.

STABILIZED CONSTRUCTION ENTRANCE

A STABILIZED CONSTRUCTION ENTRANCE IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF IT IS DETERMINED BY THE ENGINEER THAT THE CONTRACTOR OPERATIONS REQUIRE A STABILIZED ENTRANCE, QUANTITY HAS BEEN INCLUDED IN THE PROJECT TO COMPLETE THIS WORK. THERE WILL BE NO ADJUSTMENT TO THE CONTRACT IF THE ENTRANCE IS NOT CONSTRUCTED. IF REQUIRED, THE CONTRACTOR WILL SUBMIT THE LOCATION AND DETAILS TO ENGINEER FOR APPROVAL.

CONCRETE WASHOUT

A CONCRETE WASHOUT IS NEEDED FOR THIS PROJECT. IT SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT THE TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED IN A MANNER CONSISTENT WITH THE DETAILS ON THE PLANS AND THE LATEST EDITION OF THE ILLINOIS URBAN MANUAL.

GENERAL NOTES

- A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.
- B) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- C) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
- D) IT IS THE RESPONSIBILITY OF THE OWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
- E) THE CONTRACTOR IS RESPONSIBLE FOR INDICATING THE CURRENT LOCATION OF THE CONCRETE WASHOUT AND ANY MODIFICATIONS TO THE LOCATIONS OR DETAILS OF EROSION AND SEDIMENT CONTROLS ON THESE PLANS.
- F) ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. PREFABRICATED DROP INLET PROTECTION SHOULD BE AS RESTRICTIVE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.

CONTRACTOR SUBMITTAL

MEANS AND METHODS TO CONSTRUCT THE BRIDGE, CHANNEL AND OTHER APPURTENANT WORK IS THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR IS REQUIRED TO SUBMIT TO THE ENGINEER FOR APPROVAL ALL DRAWINGS AND/OR DETAILS SHOWING THE EXACT SEQUENCING, METHODS, AND LOCATIONS OF THE COFFERDAMS AND CAUSEWAY(S) (IF REQUIRED) WHICH WILL INCLUDE DEWATERING AND FILTRATION METHODS.

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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 20.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

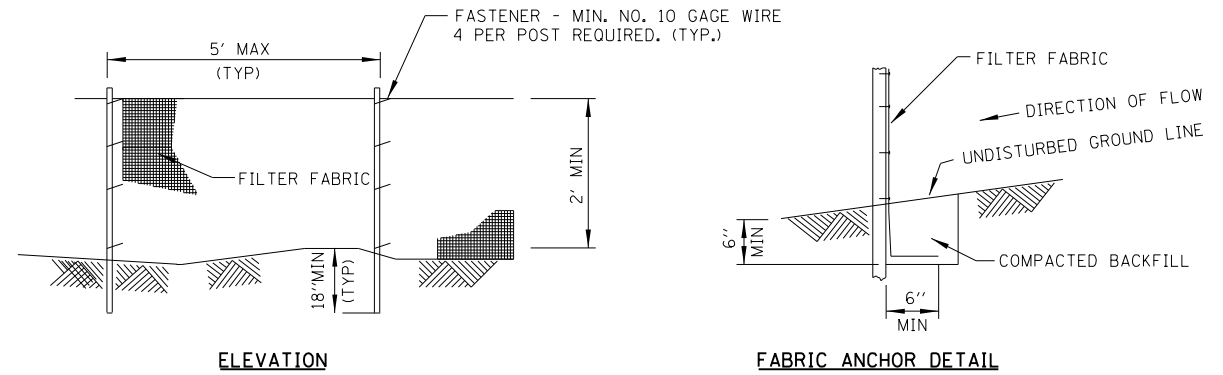
**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
EROSION CONTROL GENERAL NOTES**

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

| | | | | |
|-----------|---------------|----------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-0009-00-BR | DEKALB | 85 | 25 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |

IN-STREAM WORK

1. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE AT OR BELOW THE NORMAL WATER ELEVATION.
2. THE PLAN MUST BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.
3. WATER MUST BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
4. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
5. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE MUST BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE MUST BE RELEASED ONTO A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND MUST NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
6. DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER MUST HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER MAY NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
7. THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE MUST BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.



PERIMETER EROSION BARRIER

(SILT FENCE)

STD. IUM-620A
(SILT FENCE PLAN)

PERIMETER EROSION BARRIER NOTES:

1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 40 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

DEWATERING AND WATER DIVERSION

DEWATERING AND WATER DIVERSION WORK SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS TO INSTALL, MAINTAIN, AND OPERATE ALL NECESSARY DEWATERING SYSTEMS TO DIVERT, REMOVE WATER FROM THE CHANNEL REACH OR DESIGNED TO CONTROL SEDIMENT DISCHARGE IN DEWATERING APPLICATIONS WHERE WATER IS BEING PUMPED FOR THE CONSTRUCTION OF THE PROPOSED BRIDGE, HEADWALLS, STONE RIP RAP SLOPE PROTECTION AND OTHER WORK ASSOCIATED WITH CONSTRUCTION OF THE BRIDGE TO ASSURE THE WORK CAN BE COMPLETED IN THE DRY OR IN MANAGEABLE CONDITIONS AS APPROVED BY THE ENGINEER.

THIS ITEM WILL ALSO CONSIST OF CONSTRUCTING A DEWATERING FILTERING SYSTEM CONSISTING OF FILTRATION OR SEDIMENT BAGS FOR COLLECTING SEDIMENT FROM PUMPING OPERATIONS WITHIN COFFER DAMS AND SUMP PITS. CONSTRUCTION WATERS WILL INCLUDE, BUT NOT BE LIMITED TO, ALL WATERS GENERATED FROM THE INSTALLATION OF BRIDGE, HEADWALLS, DRAINAGE SYSTEMS, FOOTING AND AGGREGATE BASE CONSTRUCTION.

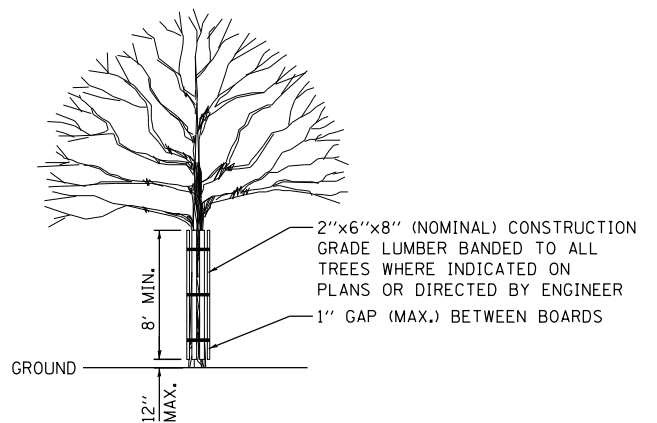
DEWATERING AND WATER DIVERSION - BASIS OF PAYMENT

ALL WORK REQUIRED TO PROVIDE FOR THE DEWATERING AND/OR DIVERSION SYSTEMS FOR THE CONSTRUCTION OF THE BRIDGE, HEADWALLS, CHANNEL AND BANK STABILIZATION WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INLCUDED IN THE VAROUS ITEMS REQUIRING DETWATERING AND/OR DIVERSION, WHICH WORK SHALL INCLUDE MEANS AND METHODS FOR DESIGN OF COFFERDAMS, BARRIER WALL, FILTER FABRIC, PIPING, PUMPING, FOUNDATION PREPARATION, FRAMING AND SUPPORTS, DEWATERING FILTERING SYSTEM CONSISTING OF FILTRATION OR SEDIMENT BAGS, INSTALLATION, MAINTENANCE, REMOVAL OF SYSTEMS, CAUSEWAY(S) AND ALL LABOR, MATERIAL, AND EQUIPMENT NEEDED TO PERFORM THE WORK DESCRIBED HEREIN AND AS SPECIFIED ON THE PLANS AND SPECIAL PROVISIONS.

WATERWAY INFORMATION

| Drainage Area = 311.0 sq. mi. | | | | | | | | | |
|-------------------------------|-----------|----------|---------------|-------|-------------|------------|-------|---------------|--------|
| Flood | Freq. Yr. | 0 C.F.S. | Opening Sq Ft | | Nat. H.W.E. | Head - Ft. | | Headwater El. | |
| | | | Exist. | Prop. | | Exist | Prop. | Exist | Prop. |
| | 2 | 3741 | 1134 | 1182 | 759.56 | 0.40 | 0.36 | 759.96 | 759.92 |

2-Year Velocity through Existing Bridge = 3.3 ft/s



TREE TRUNK PROTECTION

TREE TRUNK PROTECTION HAS BEEN PROVIDED FOR IN THE PLANS FOR TREES DEEMED NEEDING PROTECTION. THE LOCATIONS ARE SHOWN ON THE EROSION AND REMOVAL PLANS. AN ADDITIONAL NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE ENGINEER'S DISCRETION.

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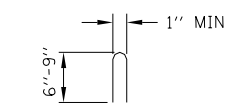
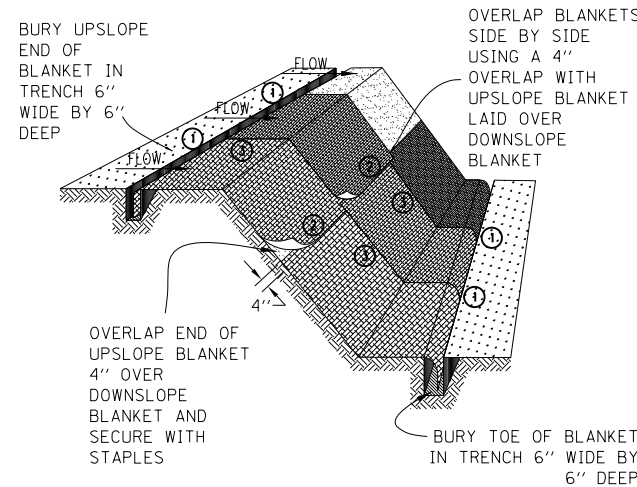
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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 20.0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

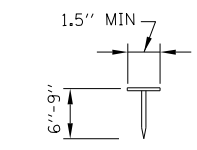
**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
EROSION CONTROL DETAILS**

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

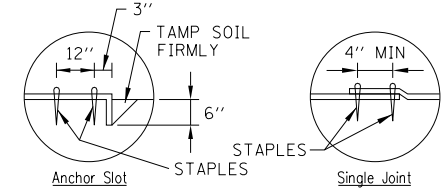
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| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 26 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |



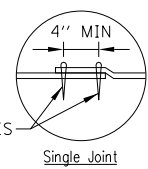
STAPLE DETAIL



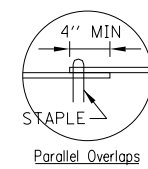
PUSH PIN DETAIL



DETAIL 1



DETAIL 2

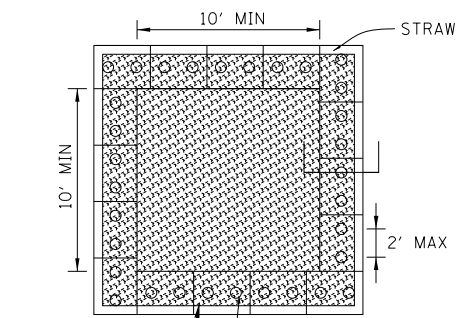


DETAIL 3

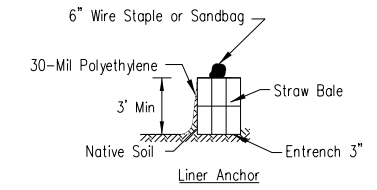
BLANKET NOTES:

1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

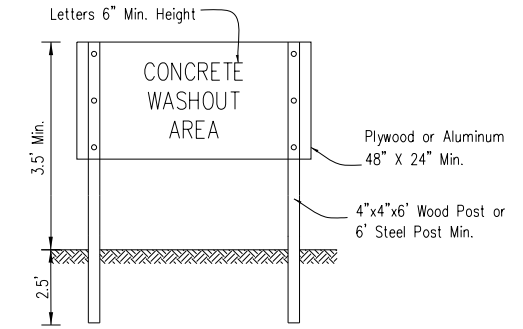
**EROSION CONTROL
BLANKET INSTALLATION DETAILS**



PLAN VIEW



STRAW BALE ANCHOR SECTIONS



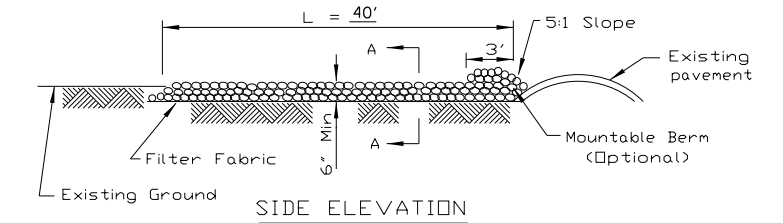
SIGN DETAIL

WASHOUT NOTES:

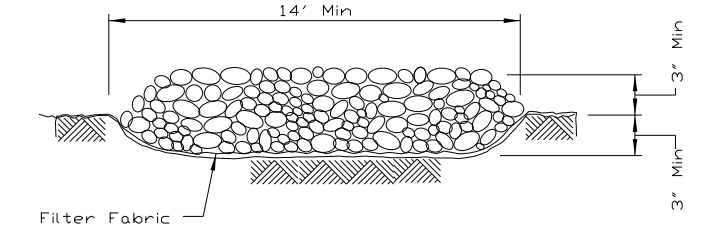
1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4' WOODEN STAKES.

**TEMPORARY CONCRETE
WASHOUT FACILITY – STRAW BALE**

STD. IUM-6545B
(TEMPORARY CONCRETE WASHOUT)



SIDE ELEVATION



SECTION A-A

NOTES:

1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING THE ROCK.
2. AGGREGATE FILL SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SPECIAL PROVISION "STABILIZED CONSTRUCTION ENTRANCE".
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

**STABILIZED CONSTRUCTION
ENTRANCE PLAN**

STD. IL-630(A), IL-630(B)
(STABILIZED CONSTRUCTION ENTRANCE PLAN)

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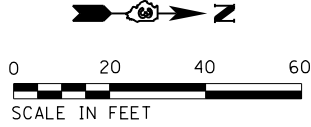
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|------------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 20.0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|--|---------------------|
| PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER EROSION CONTROL DETAILS | |
| SCALE: NONE | SHEET 5 OF 5 SHEETS |
| STA. | TO STA. |

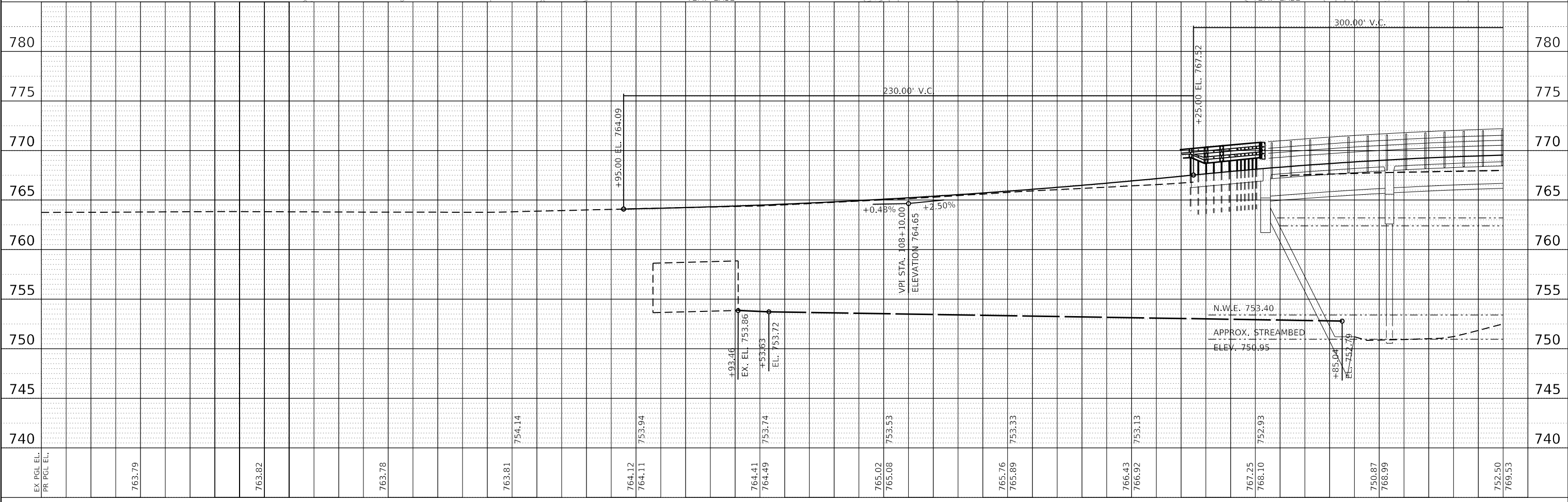
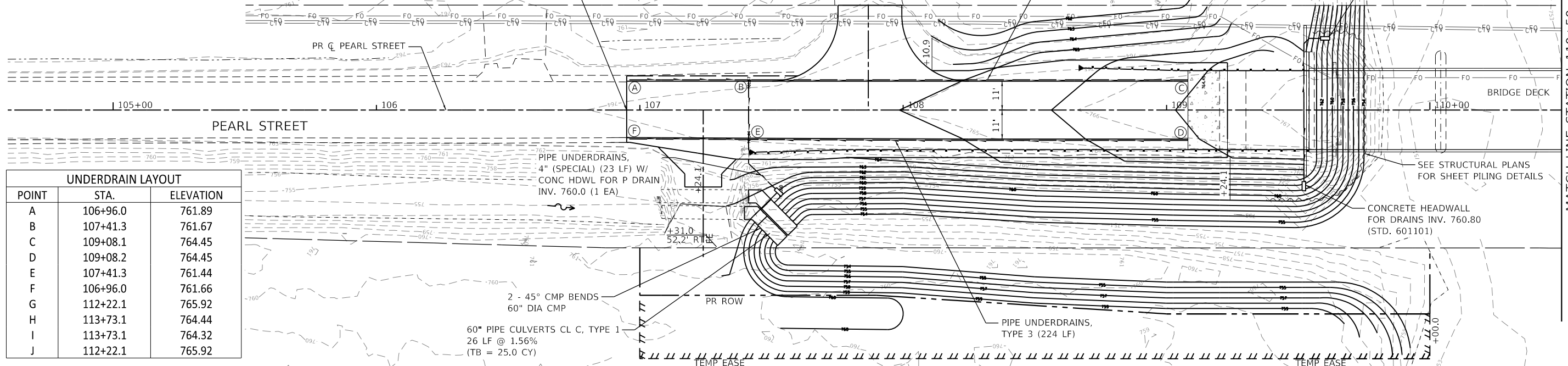
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| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 28 |
| ILLINOIS | | | FED. AID PROJECT | |

CONTRACT NO. 87722



| | |
|------|------------------------------|
| DATE | |
| BY | |
| PLAN | SURVEYED |
| | PLOTTED |
| | GRADES CHECKED |
| | STRUCTURE NOT AT THIS OFFICE |
| | NO. _____ |
| | NOTE BOOK |
| | NO. _____ |
| | FILE NAME |
| | _____ |

| | |
|---------|------------------------------|
| DATE | |
| BY | |
| PROFILE | SURVEYED |
| | PLOTTED |
| | GRADES CHECKED |
| | STRUCTURE NOT AT THIS OFFICE |
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| | NOTE BOOK |
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| | FILE NAME |
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| | | |
|------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| DESIGNED - | DRAWN - | REVISED - |
| DESIGNED - | CHECKED - | REVISED - |
| DESIGNED - | DATE = 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
DRAINAGE PLAN AND PROFILE**

| | | | | |
|---------------------------|------------------------|---------------|-----------------|--------------|
| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 29 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 109+95.00 TO STA. 110+50.00

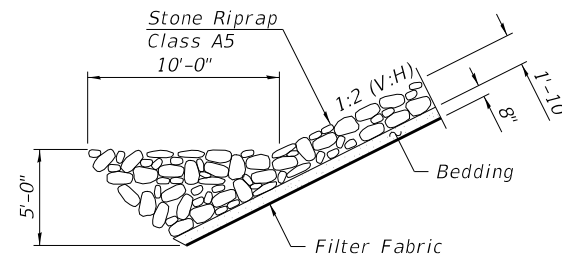
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GENERAL NOTES

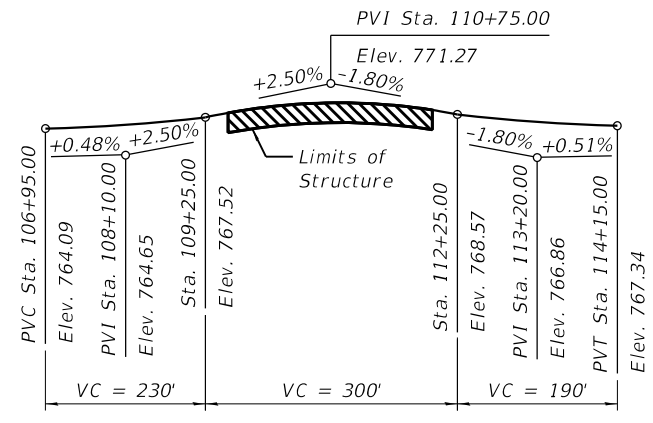
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 at the unit price bid for the work.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50 (AASHTO M270 Grade 50W.)
- All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
- The seal coat design thickness is based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details and seal coat thickness shall be submitted to the Engineer for approval. The CDWE is equal to the Estimated Water Surface Elevation (EWSE) plus 3 feet.
- Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- The Contractor shall submit detailed calculations for approval by the engineer demonstrating the structural integrity of the existing bridge is maintained under any construction loads during any phase of construction should the contractor decide to use the existing structure as a means of constructing the new structure.
- When any abandoned foundations or obstructions are encountered that interfere with the proposed work, the Contractor shall notify the Engineer and upon concurrence of the Engineer, the Contractor shall remove such objects in accordance with Article 109.04 of the Standard Specifications.

INDEX OF SHEETS

- General Plan and Elevation
- General Data
- Top of Slab Elevations 1
- Top of Slab Elevations 2
- Top of Slab Elevations 3
- Top of South Approach Slab Elevations
- Top of North Approach Slab Elevations
- Superstructure Cross Section
- Superstructure Plan
- Superstructure Details
- Steel Railing, Type SM Details
- Abutment Diaphragm Details
- Expansion Pier Diaphragm Details
- Fixed Pier Diaphragm Details
- Bridge Approach Slab Details 1
- Bridge Approach Slab Details 2
- Framing Plan
- Framing Details
- IL27N Beam (Spans 1 and 4)
- IL27N Beam (Spans 2 and 3)
- IL27N Beam Details
- South Abutment
- North Abutment
- Abutment Details
- Pier 1, Pier 2, and Pier 3
- Pier Details
- Metal Shell Pile Details
- Boring Logs 1
- Boring Logs 2
- Boring Logs 3
- Boring Logs 4
- Boring Logs 5
- Boring Logs 6
- Boring Logs 7



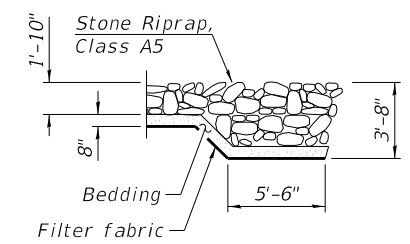
SECTION B-B



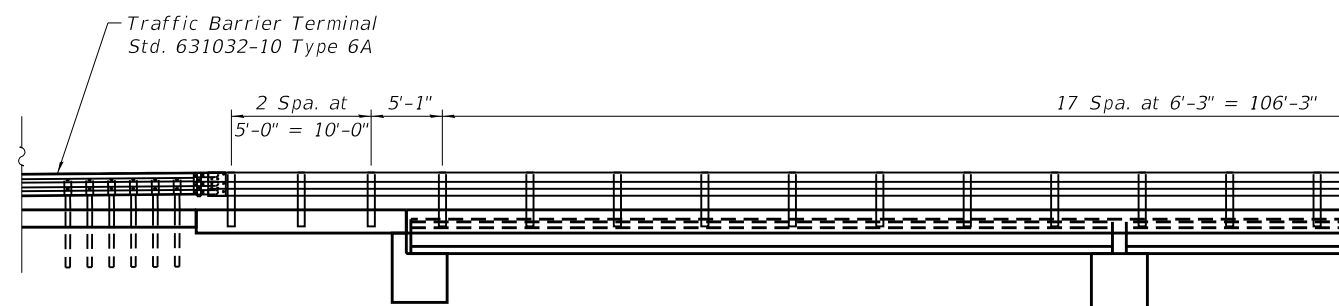
PROFILE GRADE
(Along \bar{C} Pearl Street)

SOUTH BRANCH KISHWAUKEE RIVER
BUILT BY
VILLAGE OF KIRKLAND
SEC. 14-00009-00-BR
STA. 110+65.10
STR. NO. 019-6500 - HL-93 LOADING

NAME PLATE
See Std. 515001



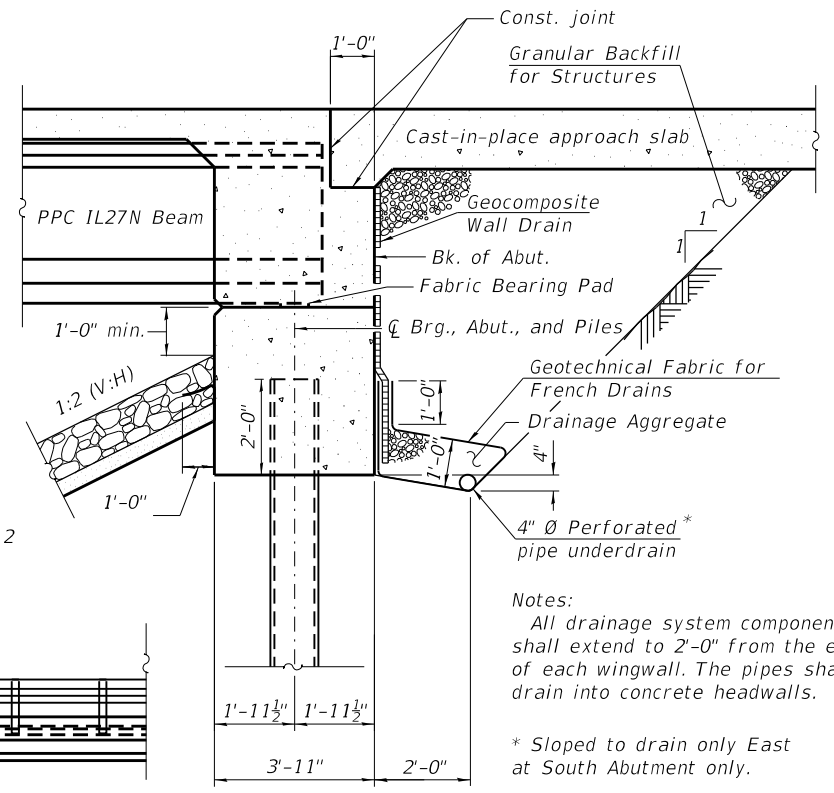
SECTION C-C



TYPE SM RAILING LAYOUT
(East Elevation Shown, West Elevation Similar)
(Layout symmetric about \bar{C} Pier 2)

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|---|---------|---------|--------|---------|
| Furnished Excavation | Sq. Yd. | | 55.0 | 55.0 |
| Stone Riprap, Class A5 | Cu. Yd. | | 1,000 | 1,000 |
| Filter Fabric | Sq. Yd. | | 1,000 | 1,000 |
| Protective Coat | Sq. Yd. | | 1,053 | 1,053 |
| Removal of Existing Structure | Each | 1 | | 1 |
| Structure Excavation | Cu. Yd. | | 456.3 | 456.3 |
| Cofferdam Excavation | Cu. Yd. | | 542.3 | 542.3 |
| Cofferdam (Type 1) | Each | | 1 | 1 |
| Cofferdam (Type 2) | Each | | 2 | 2 |
| Concrete Structures | Cu. Yd. | | 254.7 | 254.7 |
| Concrete Superstructure | Cu. Yd. | 213.6 | | 213.6 |
| Bridge Deck Grooving | Sq. Yd. | 947 | | 947 |
| Seal Coat Concrete | Cu. Yd. | | 210.0 | 210.0 |
| Concrete Superstructure (Approach Slab) | Cu. Yd. | 85.2 | | 85.2 |
| Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N | Foot | 1,102 | | 1,102 |
| Reinforcement Bars, Epoxy Coated | Pound | 105,580 | 24,420 | 130,000 |
| Steel Railing, Type SM | Foot | 508 | | 508 |
| Furnishing Metal Shell Piles 16" x 0.375" | Foot | | 1,030 | 1,030 |
| Driving Piles | Foot | | 1,030 | 1,030 |
| Test Pile Metal Shells | Each | | 5 | 5 |
| Pile Shoes | Each | | 30 | 30 |
| Name Plates | Each | 1 | | 1 |
| Elastomeric Bearing Assembly, Type 1 | Each | 20 | | 20 |
| Anchor Bolts, 1 1/2" | Each | 44 | | 44 |
| Permanent Sheet Piling | Sq. Ft. | | 2,478 | 2,478 |
| Granular Backfill for Structures | Cu. Yd. | | 115.4 | 115.4 |
| Geocomposite Wall Drain | Sq. Yd. | | 72 | 72 |
| Pipe Underdrains for Structures, 4" | Foot | | 136 | 136 |
| Bar Terminators | Each | | 488 | 488 |



SECTION THRU INTEGRAL ABUTMENT

Notes:
All drainage system components shall extend to 2'-0" from the end of each wingwall. The pipes shall drain into concrete headwalls.
* Sloped to drain only East at South Abutment only.



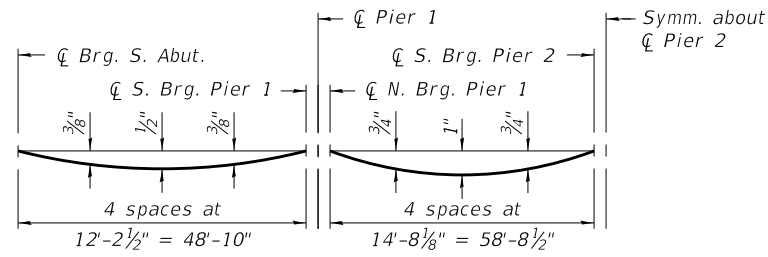
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| PLOT SCALE = 24,0000' / in. | CHECKED - OS | REVISED - |
| PLOT DATE = 4/30/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - OS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 019-6500

SHEET 2 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|-----------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 35 |
| CONTRACT NO. 87722 | | | ILLINOIS / FED. AID PROJECT | |

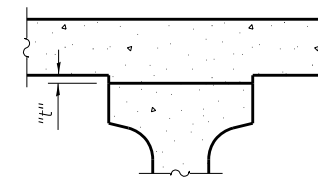


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

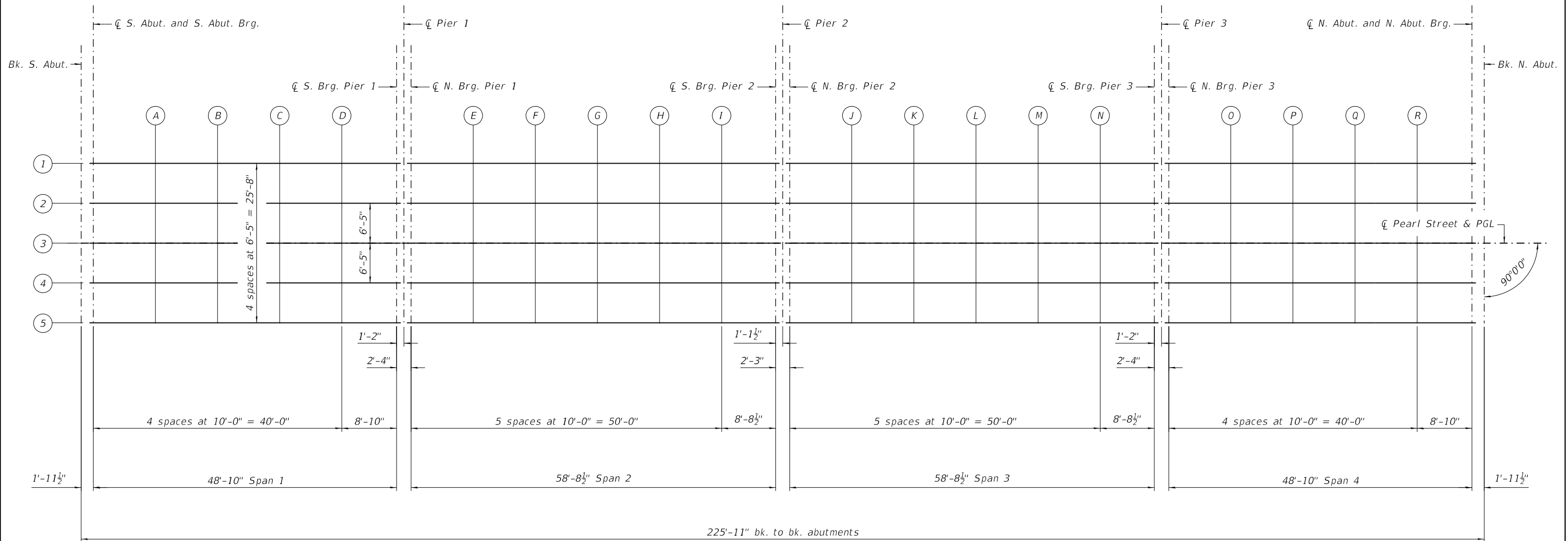
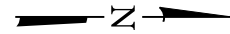
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 and 5 of 34.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

LEGEND

- ① Beam Number
- Ⓐ Location

MODEL: Default
FILE: h:\mfc...
PROJECTS: 2021\CH401\4012\10075\Bridges\Standards_Sheets\Std. Final\0196500_003-Top of Slab Elevations 1.dgn

TRANSYSTEMS

| | | |
|------------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| PLOT SCALE = 16.0000 ' / in. | CHECKED - ESS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - ESS | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS 1
STRUCTURE NO. 019-6500**

SHEET 3 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 36 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

BEAM 1

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---------------------|-----------|---------|------------------------------|--|
| Bk. South Abut. | 109+52.15 | -12.83' | 767.89 | 767.89 |
| ☉ Brg. South Abut. | 109+54.10 | -12.83' | 767.93 | 767.93 |
| A | 109+64.10 | -12.83' | 768.13 | 768.16 |
| B | 109+74.10 | -12.83' | 768.32 | 768.36 |
| C | 109+84.10 | -12.83' | 768.49 | 768.53 |
| D | 109+94.10 | -12.83' | 768.65 | 768.67 |
| ☉ Pier 1 South Brg. | 110+02.94 | -12.83' | 768.78 | 768.78 |
| ☉ Pier 1 | 110+04.10 | -12.83' | 768.79 | 768.79 |
| ☉ Pier 1 North Brg. | 110+05.27 | -12.83' | 768.81 | 768.81 |
| E | 110+15.27 | -12.83' | 768.94 | 768.98 |
| F | 110+25.27 | -12.83' | 769.05 | 769.13 |
| G | 110+35.27 | -12.83' | 769.15 | 769.24 |
| H | 110+45.27 | -12.83' | 769.23 | 769.31 |
| I | 110+55.27 | -12.83' | 769.30 | 769.35 |
| ☉ Pier 2 South Brg. | 110+63.98 | -12.83' | 769.35 | 769.35 |
| ☉ Pier 2 | 110+65.10 | -12.83' | 769.36 | 769.36 |
| ☉ Pier 2 North Brg. | 110+66.23 | -12.83' | 769.36 | 769.36 |
| J | 110+76.23 | -12.83' | 769.41 | 769.45 |
| K | 110+86.23 | -12.83' | 769.43 | 769.51 |
| L | 110+96.23 | -12.83' | 769.44 | 769.54 |
| M | 111+06.23 | -12.83' | 769.44 | 769.52 |
| N | 111+16.23 | -12.83' | 769.42 | 769.47 |
| ☉ Pier 3 South Brg. | 111+24.94 | -12.83' | 769.40 | 769.40 |
| ☉ Pier 3 | 111+26.10 | -12.83' | 769.39 | 769.39 |
| ☉ Pier 3 North Brg. | 111+27.27 | -12.83' | 769.39 | 769.39 |
| O | 111+37.27 | -12.83' | 769.34 | 769.37 |
| P | 111+47.27 | -12.83' | 769.28 | 769.32 |
| Q | 111+57.27 | -12.83' | 769.20 | 769.25 |
| R | 111+67.27 | -12.83' | 769.11 | 769.14 |
| ☉ Brg. North Abut. | 111+76.10 | -12.83' | 769.02 | 769.02 |
| Bk. North Abut. | 111+78.06 | -12.83' | 769.00 | 769.00 |

BEAM 2

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---------------------|-----------|--------|------------------------------|--|
| Bk. South Abut. | 109+52.15 | -6.42' | 768.02 | 768.02 |
| ☉ Brg. South Abut. | 109+54.10 | -6.42' | 768.06 | 768.06 |
| A | 109+64.10 | -6.42' | 768.26 | 768.28 |
| B | 109+74.10 | -6.42' | 768.45 | 768.48 |
| C | 109+84.10 | -6.42' | 768.62 | 768.66 |
| D | 109+94.10 | -6.42' | 768.78 | 768.80 |
| ☉ Pier 1 South Brg. | 110+02.94 | -6.42' | 768.90 | 768.90 |
| ☉ Pier 1 | 110+04.10 | -6.42' | 768.92 | 768.92 |
| ☉ Pier 1 North Brg. | 110+05.27 | -6.42' | 768.94 | 768.94 |
| E | 110+15.27 | -6.42' | 769.06 | 769.11 |
| F | 110+25.27 | -6.42' | 769.18 | 769.25 |
| G | 110+35.27 | -6.42' | 769.28 | 769.36 |
| H | 110+45.27 | -6.42' | 769.36 | 769.43 |
| I | 110+55.27 | -6.42' | 769.43 | 769.47 |
| ☉ Pier 2 South Brg. | 110+63.98 | -6.42' | 769.48 | 769.48 |
| ☉ Pier 2 | 110+65.10 | -6.42' | 769.49 | 769.49 |
| ☉ Pier 2 North Brg. | 110+66.23 | -6.42' | 769.49 | 769.49 |
| J | 110+76.23 | -6.42' | 769.53 | 769.58 |
| K | 110+86.23 | -6.42' | 769.56 | 769.63 |
| L | 110+96.23 | -6.42' | 769.57 | 769.65 |
| M | 111+06.23 | -6.42' | 769.57 | 769.64 |
| N | 111+16.23 | -6.42' | 769.55 | 769.59 |
| ☉ Pier 3 South Brg. | 111+24.94 | -6.42' | 769.53 | 769.53 |
| ☉ Pier 3 | 111+26.10 | -6.42' | 769.52 | 769.52 |
| ☉ Pier 3 North Brg. | 111+27.27 | -6.42' | 769.52 | 769.52 |
| O | 111+37.27 | -6.42' | 769.47 | 769.49 |
| P | 111+47.27 | -6.42' | 769.41 | 769.45 |
| Q | 111+57.27 | -6.42' | 769.33 | 769.37 |
| R | 111+67.27 | -6.42' | 769.24 | 769.26 |
| ☉ Brg. North Abut. | 111+76.10 | -6.42' | 769.15 | 769.15 |
| Bk. North Abut. | 111+78.06 | -6.42' | 769.13 | 769.13 |

☉ PEARL STREET, PGL, AND ☉ BEAM 3

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---------------------|-----------|--------|------------------------------|--|
| Bk. South Abut. | 109+52.15 | 0.00' | 768.15 | 768.15 |
| ☉ Brg. South Abut. | 109+54.10 | 0.00' | 768.19 | 768.19 |
| A | 109+64.10 | 0.00' | 768.39 | 768.41 |
| B | 109+74.10 | 0.00' | 768.57 | 768.61 |
| C | 109+84.10 | 0.00' | 768.75 | 768.78 |
| D | 109+94.10 | 0.00' | 768.91 | 768.93 |
| ☉ Pier 1 South Brg. | 110+02.94 | 0.00' | 769.03 | 769.03 |
| ☉ Pier 1 | 110+04.10 | 0.00' | 769.05 | 769.05 |
| ☉ Pier 1 North Brg. | 110+05.27 | 0.00' | 769.06 | 769.06 |
| E | 110+15.27 | 0.00' | 769.19 | 769.24 |
| F | 110+25.27 | 0.00' | 769.31 | 769.38 |
| G | 110+35.27 | 0.00' | 769.41 | 769.49 |
| H | 110+45.27 | 0.00' | 769.49 | 769.56 |
| I | 110+55.27 | 0.00' | 769.56 | 769.60 |
| ☉ Pier 2 South Brg. | 110+63.98 | 0.00' | 769.61 | 769.61 |
| ☉ Pier 2 | 110+65.10 | 0.00' | 769.62 | 769.62 |
| ☉ Pier 2 North Brg. | 110+66.23 | 0.00' | 769.62 | 769.62 |
| J | 110+76.23 | 0.00' | 769.66 | 769.70 |
| K | 110+86.23 | 0.00' | 769.69 | 769.76 |
| L | 110+96.23 | 0.00' | 769.70 | 769.78 |
| M | 111+06.23 | 0.00' | 769.70 | 769.77 |
| N | 111+16.23 | 0.00' | 769.68 | 769.72 |
| ☉ Pier 3 South Brg. | 111+24.94 | 0.00' | 769.65 | 769.65 |
| ☉ Pier 3 | 111+26.10 | 0.00' | 769.65 | 769.65 |
| ☉ Pier 3 North Brg. | 111+27.27 | 0.00' | 769.64 | 769.64 |
| O | 111+37.27 | 0.00' | 769.60 | 769.62 |
| P | 111+47.27 | 0.00' | 769.54 | 769.57 |
| Q | 111+57.27 | 0.00' | 769.46 | 769.50 |
| R | 111+67.27 | 0.00' | 769.37 | 769.39 |
| ☉ Brg. North Abut. | 111+76.10 | 0.00' | 769.28 | 769.28 |
| Bk. North Abut. | 111+78.06 | 0.00' | 769.26 | 769.26 |

Notes:
 Offsets measured from ☉ Pearl Street.
 Negative offsets indicate left when looking upstation and positive offsets indicate right when looking upstation.

MODEL: Default
 FILE: h:\bce\m101_ba_e\transys\corp\pww\1\Documents\Projects_2021\CH01\0412\100750\Brdg\Std\Standard_Sheets\4_Reviewed_Final\0196500_004-Top of Slab Elevations_2.dgn



| | | |
|----------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| | CHECKED - ESS | REVISED - |
| PLOT SCALE = 2.0000' / in. | DRAWN - RAA | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - ESS | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS 2
 STRUCTURE NO. 019-6500**

SHEET 4 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|---------------------------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 37 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS FED. AID PROJECT | | |

BEAM 4

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---------------------|-----------|--------|------------------------------|--|
| Bk. South Abut. | 109+52.15 | 6.42' | 768.02 | 768.02 |
| ☐ Brg. South Abut. | 109+54.10 | 6.42' | 768.06 | 768.06 |
| A | 109+64.10 | 6.42' | 768.26 | 768.28 |
| B | 109+74.10 | 6.42' | 768.45 | 768.48 |
| C | 109+84.10 | 6.42' | 768.62 | 768.66 |
| D | 109+94.10 | 6.42' | 768.78 | 768.80 |
| ☐ Pier 1 South Brg. | 110+02.94 | 6.42' | 768.90 | 768.90 |
| ☐ Pier 1 | 110+04.10 | 6.42' | 768.92 | 768.92 |
| ☐ Pier 1 North Brg. | 110+05.27 | 6.42' | 768.94 | 768.94 |
| E | 110+15.27 | 6.42' | 769.06 | 769.11 |
| F | 110+25.27 | 6.42' | 769.18 | 769.25 |
| G | 110+35.27 | 6.42' | 769.28 | 769.36 |
| H | 110+45.27 | 6.42' | 769.36 | 769.43 |
| I | 110+55.27 | 6.42' | 769.43 | 769.47 |
| ☐ Pier 2 South Brg. | 110+63.98 | 6.42' | 769.48 | 769.48 |
| ☐ Pier 2 | 110+65.10 | 6.42' | 769.49 | 769.49 |
| ☐ Pier 2 North Brg. | 110+66.23 | 6.42' | 769.49 | 769.49 |
| J | 110+76.23 | 6.42' | 769.53 | 769.58 |
| K | 110+86.23 | 6.42' | 769.56 | 769.63 |
| L | 110+96.23 | 6.42' | 769.57 | 769.65 |
| M | 111+06.23 | 6.42' | 769.57 | 769.64 |
| N | 111+16.23 | 6.42' | 769.55 | 769.59 |
| ☐ Pier 3 South Brg. | 111+24.94 | 6.42' | 769.53 | 769.53 |
| ☐ Pier 3 | 111+26.10 | 6.42' | 769.52 | 769.52 |
| ☐ Pier 3 North Brg. | 111+27.27 | 6.42' | 769.52 | 769.52 |
| O | 111+37.27 | 6.42' | 769.47 | 769.49 |
| P | 111+47.27 | 6.42' | 769.41 | 769.45 |
| Q | 111+57.27 | 6.42' | 769.33 | 769.37 |
| R | 111+67.27 | 6.42' | 769.24 | 769.26 |
| ☐ Brg. North Abut. | 111+76.10 | 6.42' | 769.15 | 769.15 |
| Bk. North Abut. | 111+78.06 | 6.42' | 769.13 | 769.13 |

BEAM 5

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|---------------------|-----------|--------|------------------------------|--|
| Bk. South Abut. | 109+52.15 | 12.83' | 767.89 | 767.89 |
| ☐ Brg. South Abut. | 109+54.10 | 12.83' | 767.93 | 767.93 |
| A | 109+64.10 | 12.83' | 768.13 | 768.16 |
| B | 109+74.10 | 12.83' | 768.32 | 768.36 |
| C | 109+84.10 | 12.83' | 768.49 | 768.53 |
| D | 109+94.10 | 12.83' | 768.65 | 768.67 |
| ☐ Pier 1 South Brg. | 110+02.94 | 12.83' | 768.78 | 768.78 |
| ☐ Pier 1 | 110+04.10 | 12.83' | 768.79 | 768.79 |
| ☐ Pier 1 North Brg. | 110+05.27 | 12.83' | 768.81 | 768.81 |
| E | 110+15.27 | 12.83' | 768.94 | 768.98 |
| F | 110+25.27 | 12.83' | 769.05 | 769.13 |
| G | 110+35.27 | 12.83' | 769.15 | 769.24 |
| H | 110+45.27 | 12.83' | 769.23 | 769.31 |
| I | 110+55.27 | 12.83' | 769.30 | 769.35 |
| ☐ Pier 2 South Brg. | 110+63.98 | 12.83' | 769.35 | 769.35 |
| ☐ Pier 2 | 110+65.10 | 12.83' | 769.36 | 769.36 |
| ☐ Pier 2 North Brg. | 110+66.23 | 12.83' | 769.36 | 769.36 |
| J | 110+76.23 | 12.83' | 769.41 | 769.45 |
| K | 110+86.23 | 12.83' | 769.43 | 769.51 |
| L | 110+96.23 | 12.83' | 769.44 | 769.54 |
| M | 111+06.23 | 12.83' | 769.44 | 769.52 |
| N | 111+16.23 | 12.83' | 769.42 | 769.47 |
| ☐ Pier 3 South Brg. | 111+24.94 | 12.83' | 769.40 | 769.40 |
| ☐ Pier 3 | 111+26.10 | 12.83' | 769.39 | 769.39 |
| ☐ Pier 3 North Brg. | 111+27.27 | 12.83' | 769.39 | 769.39 |
| O | 111+37.27 | 12.83' | 769.34 | 769.37 |
| P | 111+47.27 | 12.83' | 769.28 | 769.32 |
| Q | 111+57.27 | 12.83' | 769.20 | 769.25 |
| R | 111+67.27 | 12.83' | 769.11 | 769.14 |
| ☐ Brg. North Abut. | 111+76.10 | 12.83' | 769.02 | 769.02 |
| Bk. North Abut. | 111+78.06 | 12.83' | 769.00 | 769.00 |

Notes:
 Offsets measured from ☐ Pearl Street.
 Negative offsets indicate left when looking upstation and positive offsets indicate right when looking upstation.

MODEL: Default
 FILE: h:\mhc\p14\hsc\p14\01-beam-transys\corp\p14\Documents\Projects_2021\CH01\04\12\10075\Bridges\Standard_Sheets\4_Reviewed_Final\0196500_005-Top of Slab Elevations_3.dgn



| | | |
|-----------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| CHECKED - ESS | REVISIONS - | |
| PLOT SCALE = 2,0000 ' / in. | DRAWN - RAA | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - ESS | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS 3
 STRUCTURE NO. 019-6500**

SHEET 5 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|----------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 38 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |

WEST EDGE

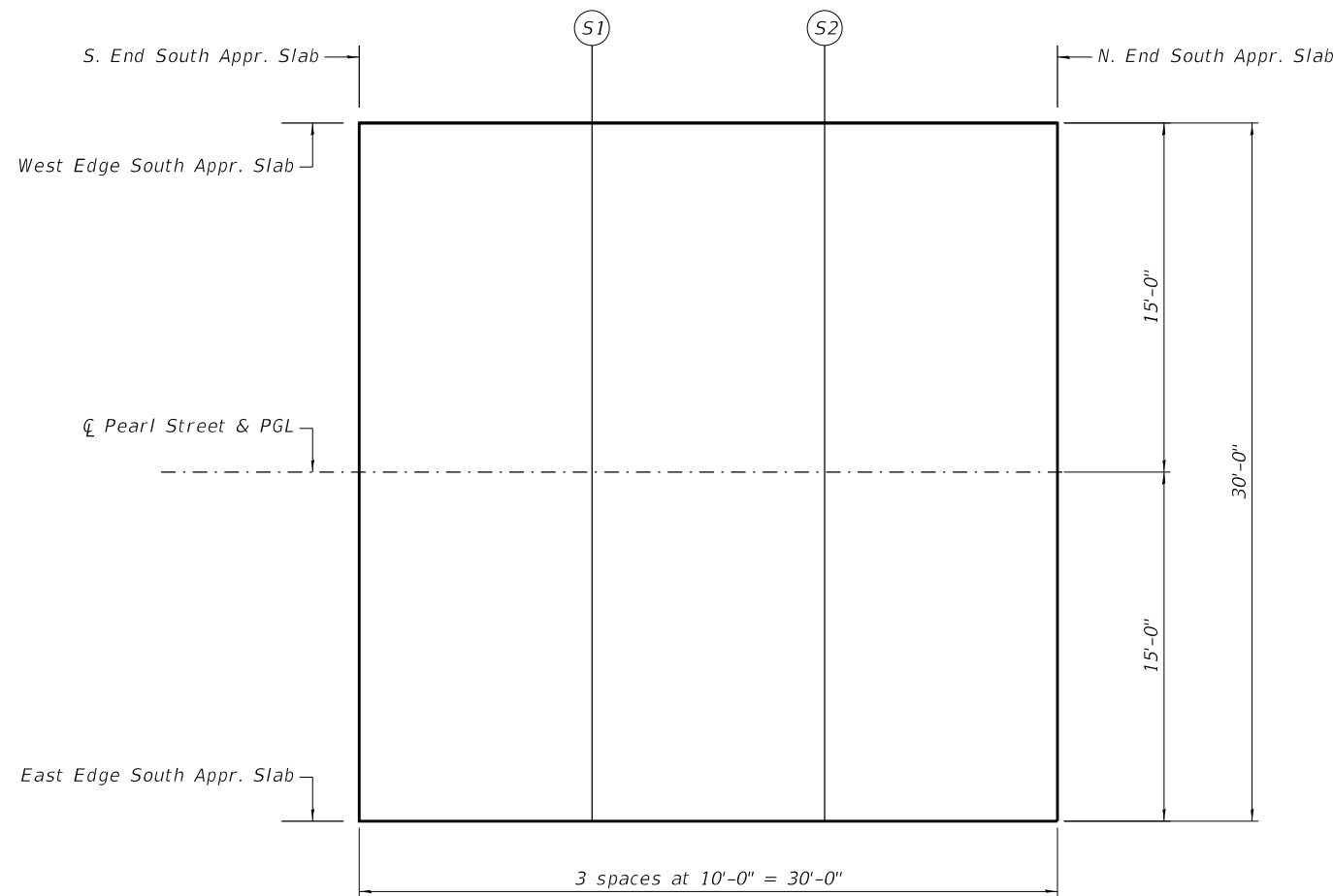
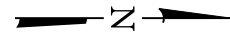
| Location | Station | Offset | Theoretical Grade Elevations |
|-----------|-----------|---------|------------------------------|
| South End | 109+23.15 | -15.00' | 767.18 |
| S1 | 109+33.15 | -15.00' | 767.42 |
| S2 | 109+43.15 | -15.00' | 767.65 |
| North End | 109+53.15 | -15.00' | 767.87 |

PGL AND ϕ PEARL STREET

| Location | Station | Offset | Theoretical Grade Elevations |
|-----------|-----------|--------|------------------------------|
| South End | 109+23.15 | 0.00' | 767.48 |
| S1 | 109+33.15 | 0.00' | 767.72 |
| S2 | 109+43.15 | 0.00' | 767.95 |
| North End | 109+53.15 | 0.00' | 768.17 |

EAST EDGE

| Location | Station | Offset | Theoretical Grade Elevations |
|-----------|-----------|--------|------------------------------|
| South End | 109+23.15 | 15.00' | 767.18 |
| S1 | 109+33.15 | 15.00' | 767.42 |
| S2 | 109+43.15 | 15.00' | 767.65 |
| North End | 109+53.15 | 15.00' | 767.87 |



LEGEND

(A) Location

PLAN

Notes:
Offsets measured from ϕ Pearl Street.
Negative offsets indicate left when looking upstation and positive offsets indicate right when looking upstation.

MODEL: Default
FILE: \\hmc\p\proj\hmc\p\proj\transys\corp\p\proj\Documents\Projects_2021\CH401\4012\10075\Bridges\Standard_Sheets\4_Rev\10196500_006-Top of South Approach Slab Elevations.dgn

TRANSYSTEMS

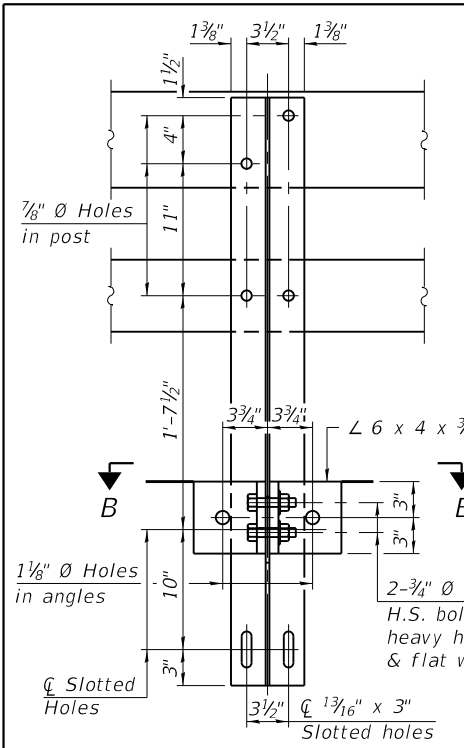
| | | |
|----------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| | CHECKED - ESS | REVISED - |
| PLOT SCALE = 8,0000' / in. | DRAWN - RAA | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - ESS | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

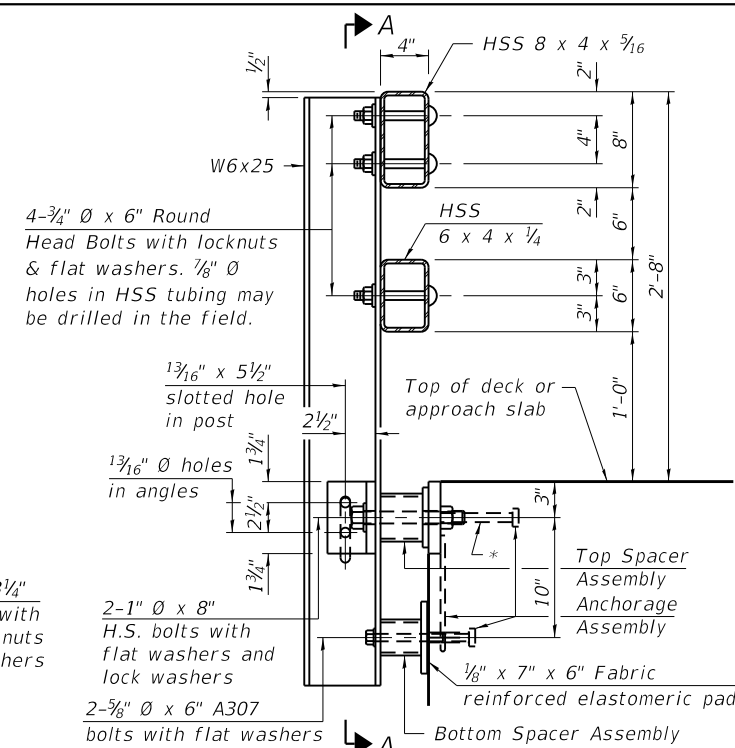
**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 019-6500**

SHEET 6 OF 34 SHEETS

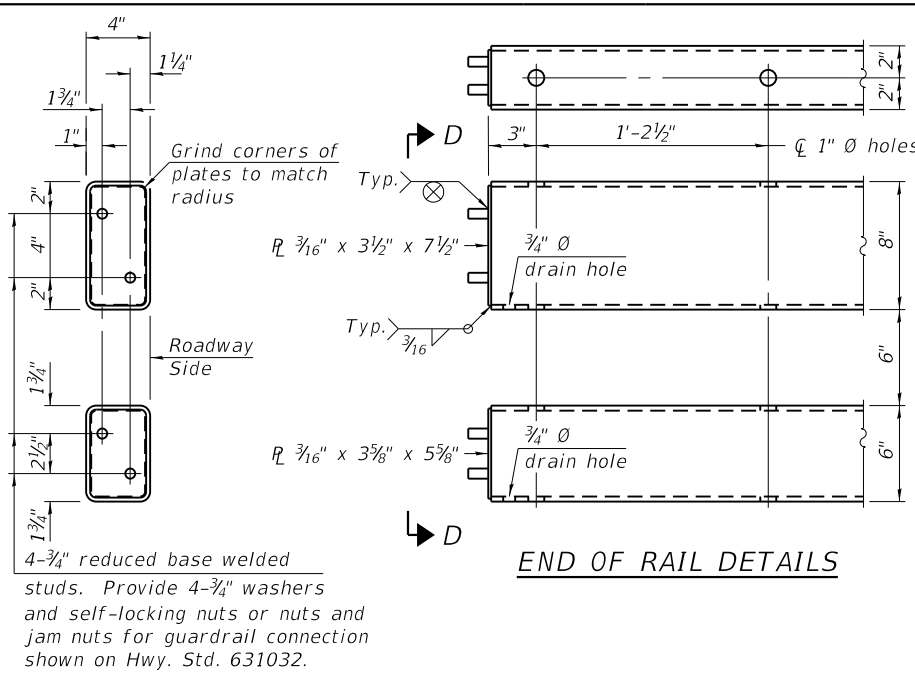
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|---------------------------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 39 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS FED. AID PROJECT | | |



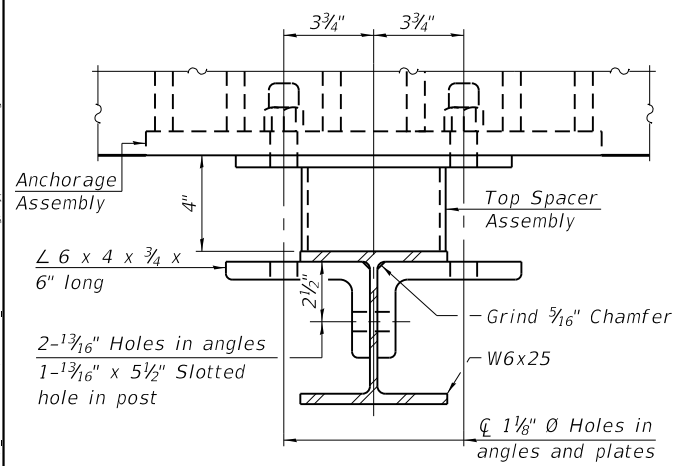
SECTION A-A



SECTION AT RAIL POST

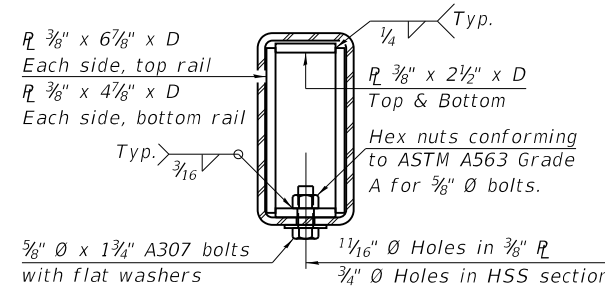


END OF RAIL DETAILS

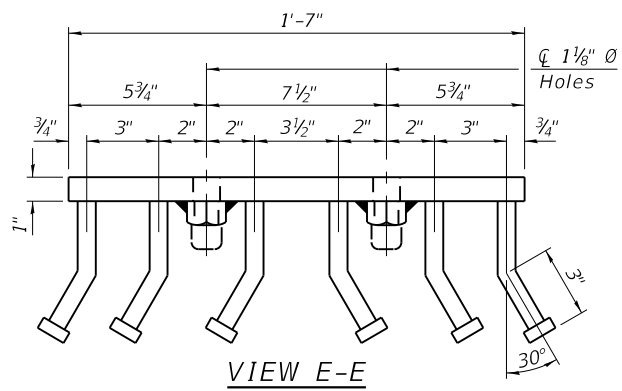


SECTION B-B

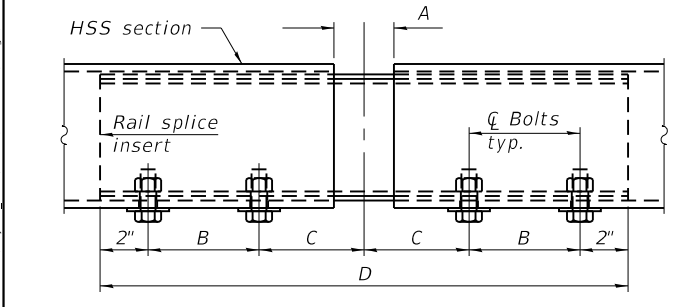
* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION AT RAIL SPLICE



VIEW E-E

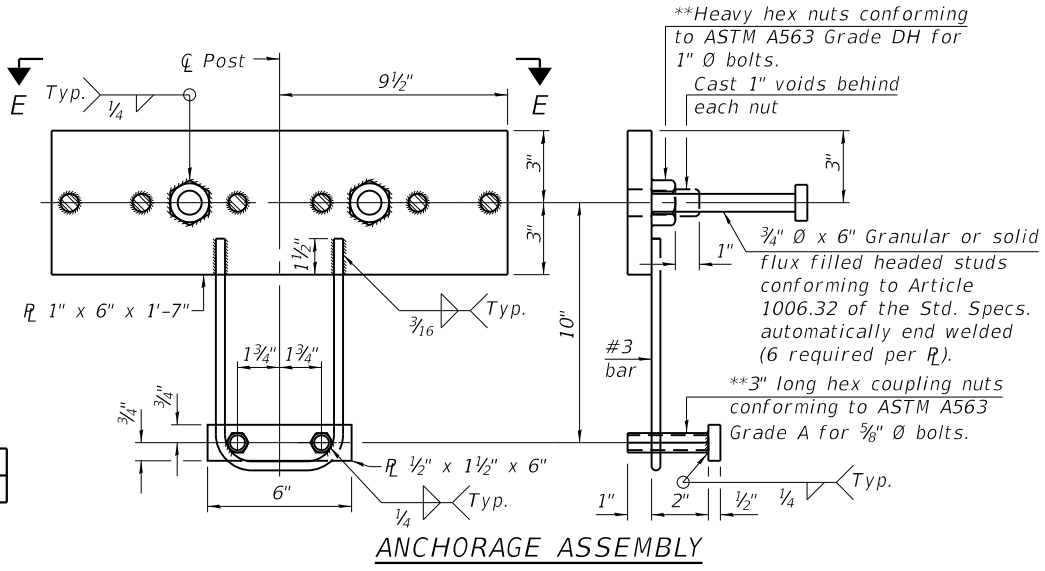


RAIL SPLICE ELEVATION

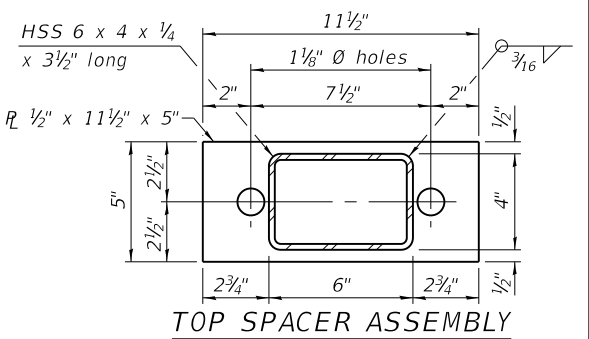
SPLICE DIMENSIONS

| Location | T | A | B | C | D | E |
|----------------------|---|------|----|----|-------|---|
| All splice locations | 0 | 1/4" | 4" | 4" | 1'-8" | - |

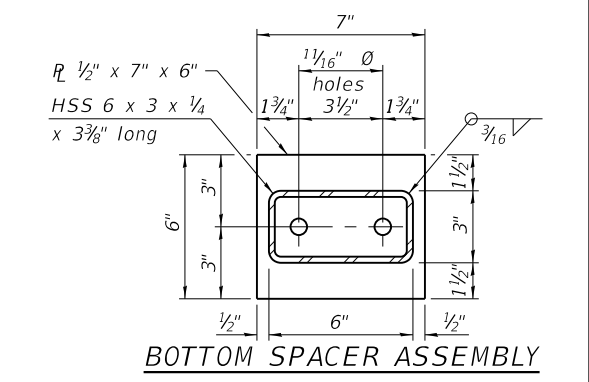
T = ; total movement along centerline of roadway.



ANCHORAGE ASSEMBLY



TOP SPACER ASSEMBLY

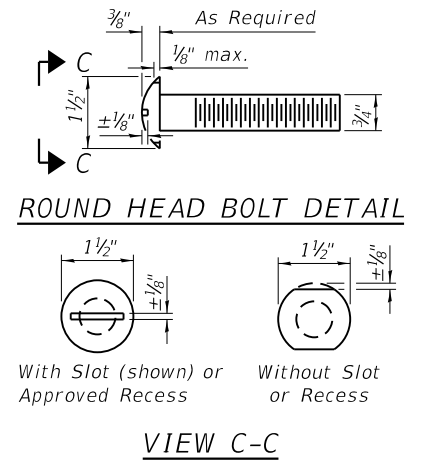


BOTTOM SPACER ASSEMBLY

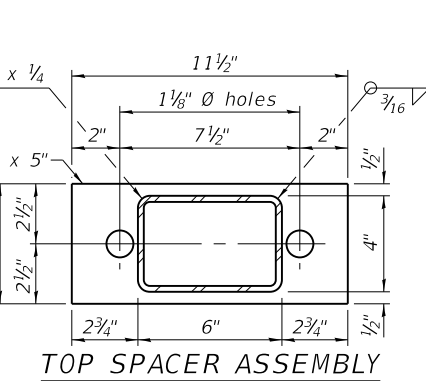
BILL OF MATERIAL

| Item | Unit | Quantity |
|------------------------|------|----------|
| Steel Railing, Type SM | Foot | 508 |

Notes:
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 Rail splice inserts may be built out of 2 - 3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



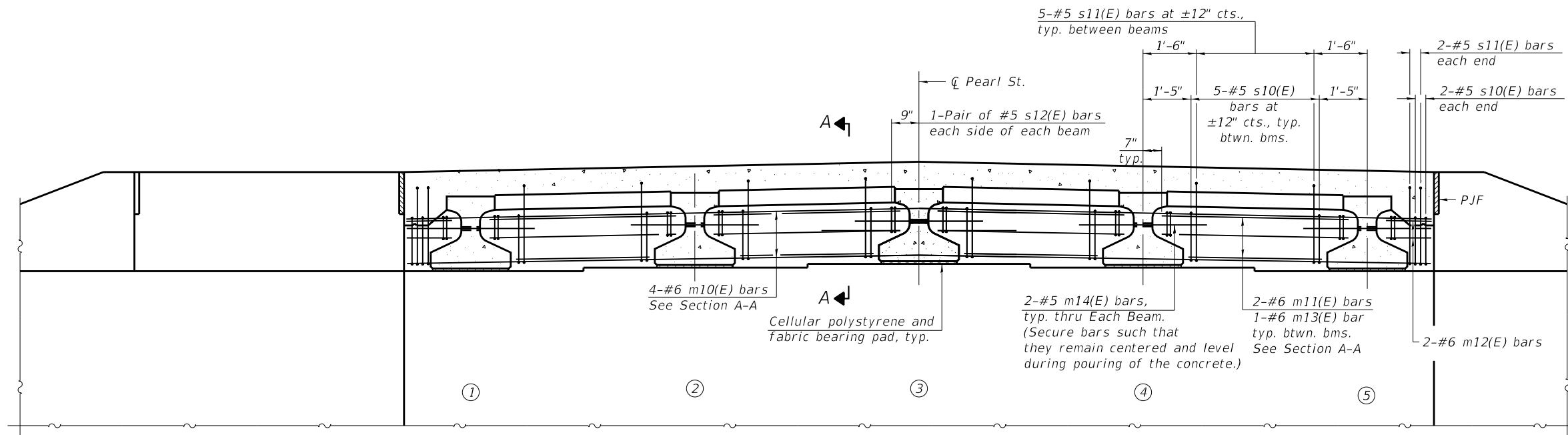
ROUND HEAD BOLT DETAIL



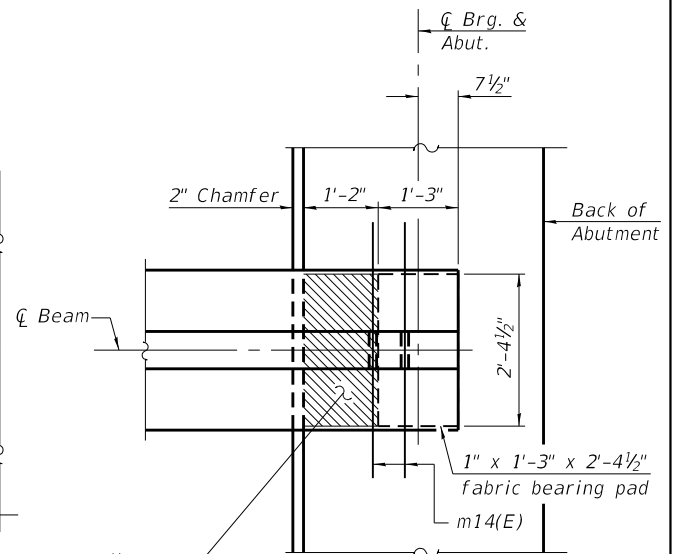
VIEW C-C

Note:
 See sheet 2 of 34 for proposed post layout.

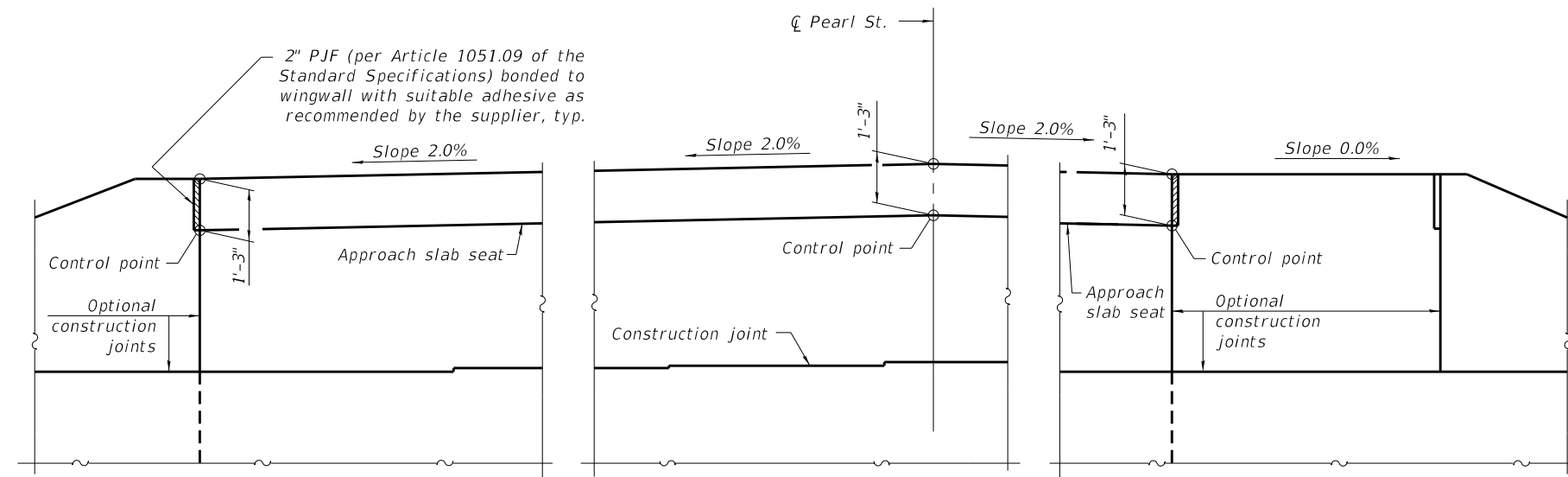
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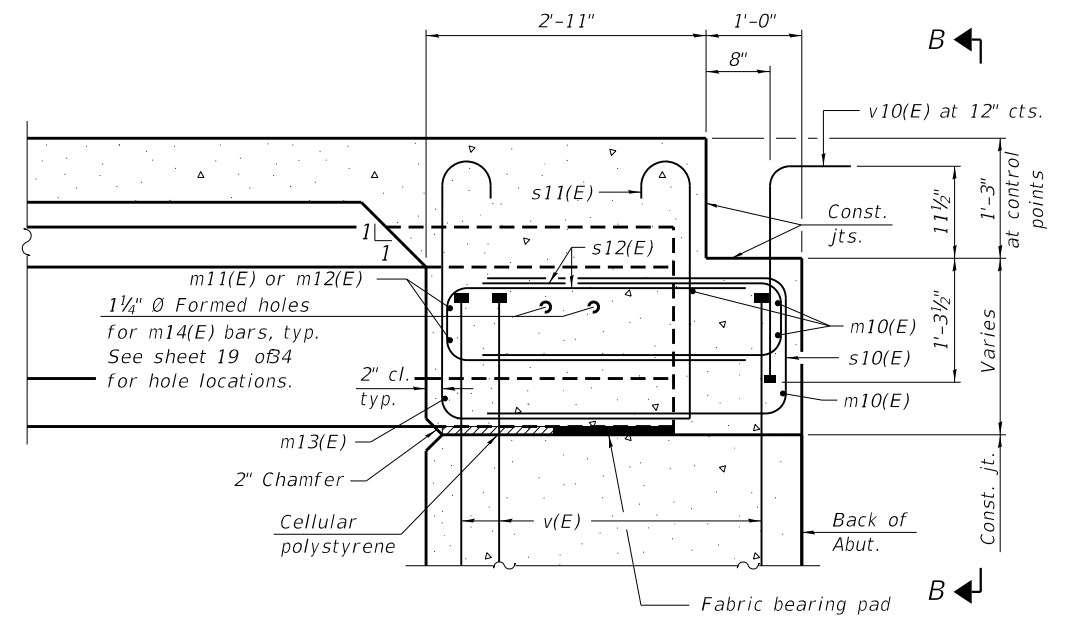
DIAPHRAGM AT ABUTMENT
 (Looking north)
 (North abutment shown, south abutment similar)



PLAN AT ABUTMENT
 (Showing bottom flange of beam)



VIEW B-B
 (North abutment shown, south abutment similar)



SECTION A-A
 (North abutment shown, south abutment similar)

Notes:
 See sheet 10 of 34 for superstructure details and Bill of Material.
 The approach slab seat shall have a constant slope determined from the control points shown.
 Cost of cellular polystyrene is included with Concrete Superstructure.

TRANSYSTEMS

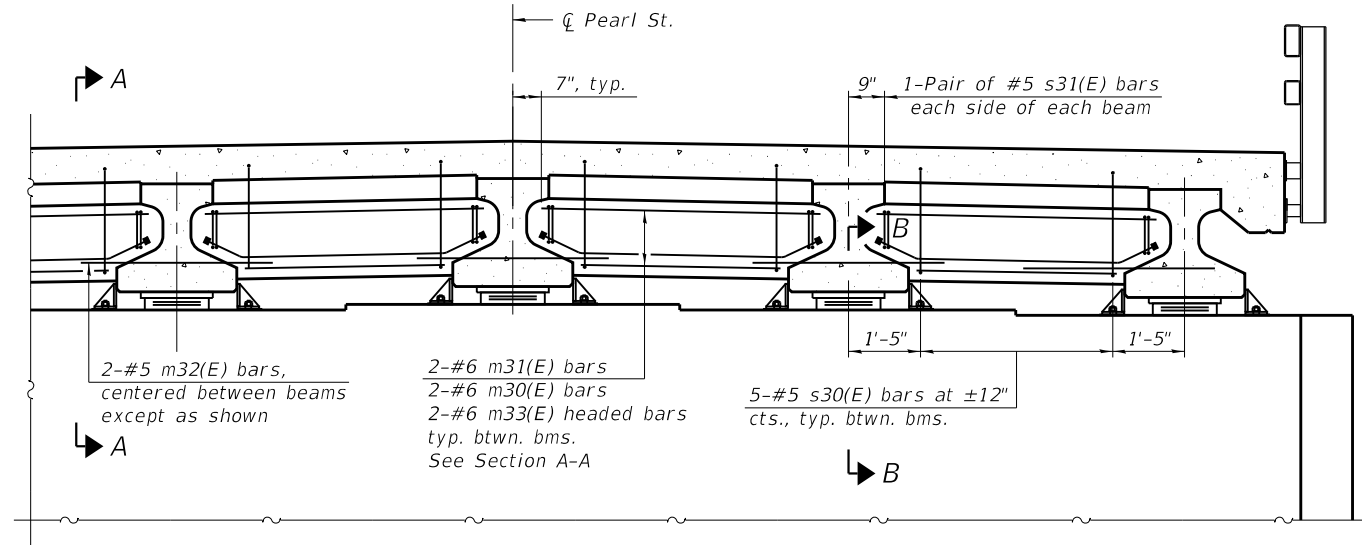
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| PLOT SCALE = 2,000' / in. | CHECKED - OS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - OS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

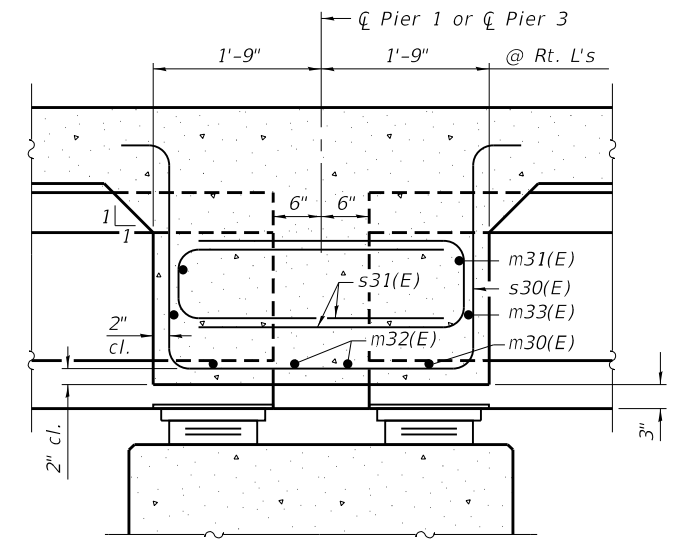
ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 019-6500

SHEET 12 OF 34 SHEETS

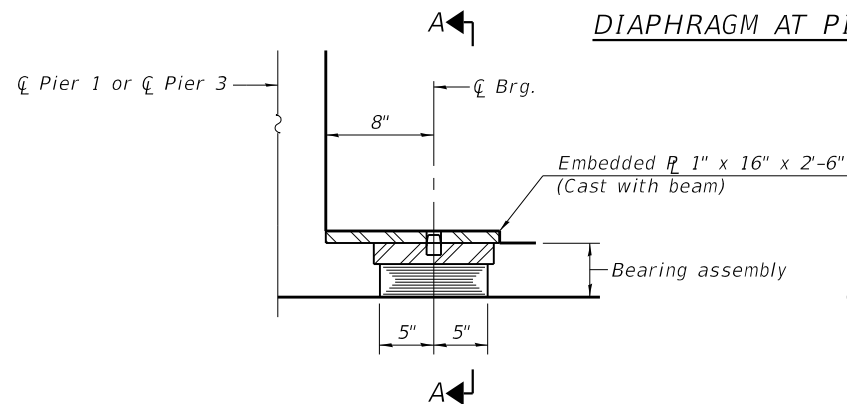
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|--------------------|----------------|------------------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 45 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



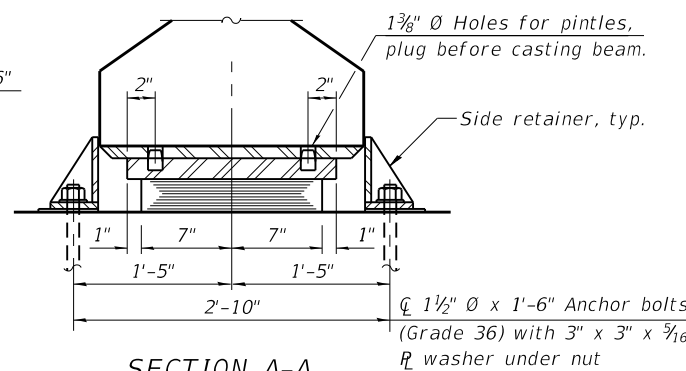
DIAPHRAGM AT PIER 1 AND PIER 3



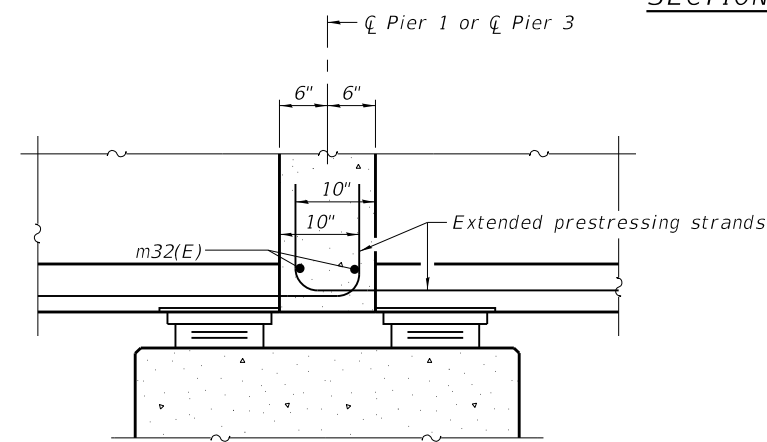
SECTION A-A



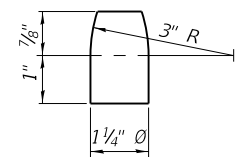
PARTIAL ELEVATION AT PIER



SECTION A-A



SECTION B-B



PINTLE

TYPE I ELASTOMERIC EXP. BRG.

Notes:

See sheet 10 of 34 for superstructure details and Bill of Material. The s30(E) and s31(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

Horizontal dimensions for Section A-A and Section B-B are along centerline of beam unless otherwise noted.

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

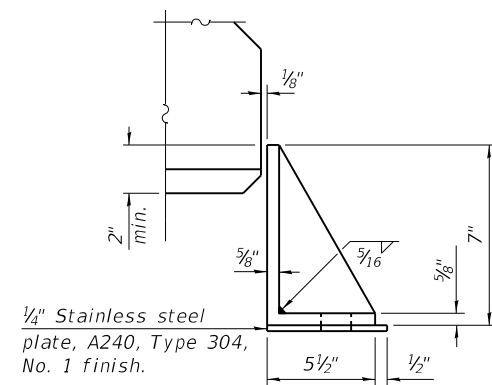
See sheet 21 of 34 for additional details of embedded plate.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

All exposed bearing plates and side retainers shall be hot dip galvanized according to AASHTO M111.

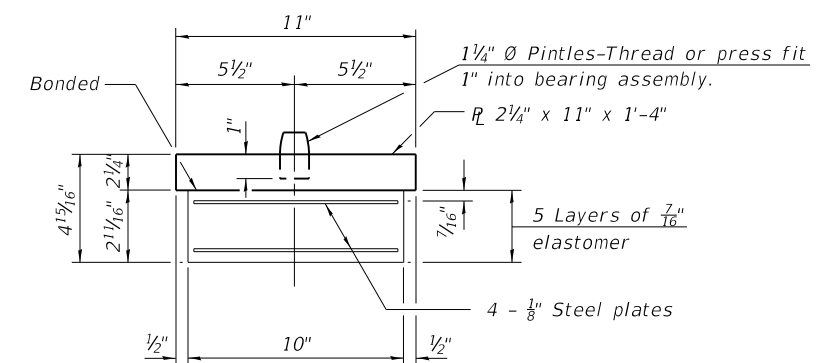
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50 (AASHTO M270 Grade 50W).

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.



SIDE RETAINER

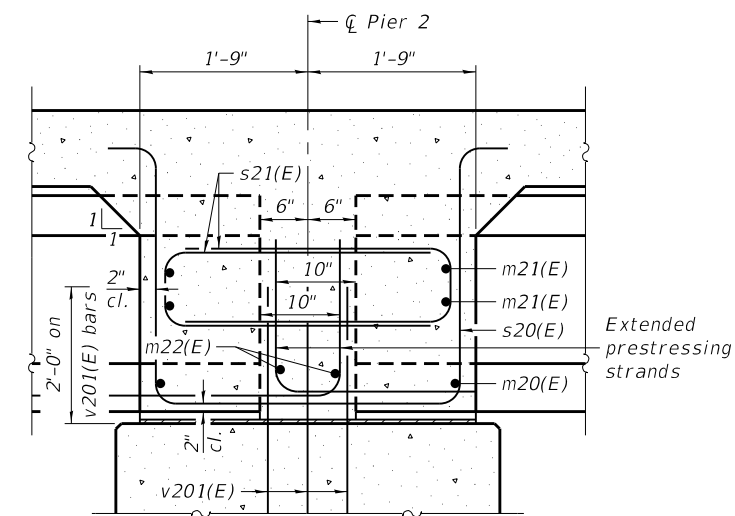
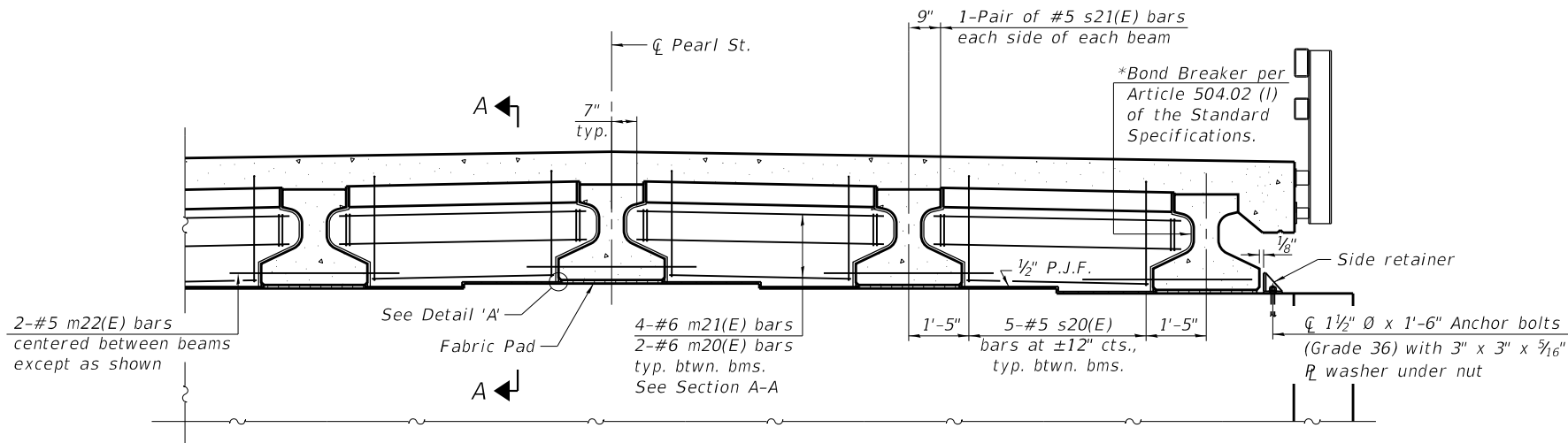
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BEARING ASSEMBLY

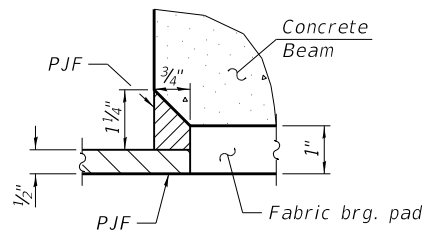
BILL OF MATERIAL

| Item | Unit | Total |
|--------------------------------------|------|-------|
| Elastomeric Bearing Assembly, Type I | Each | 20 |
| Anchor Bolts, 1 1/2" | Each | 40 |

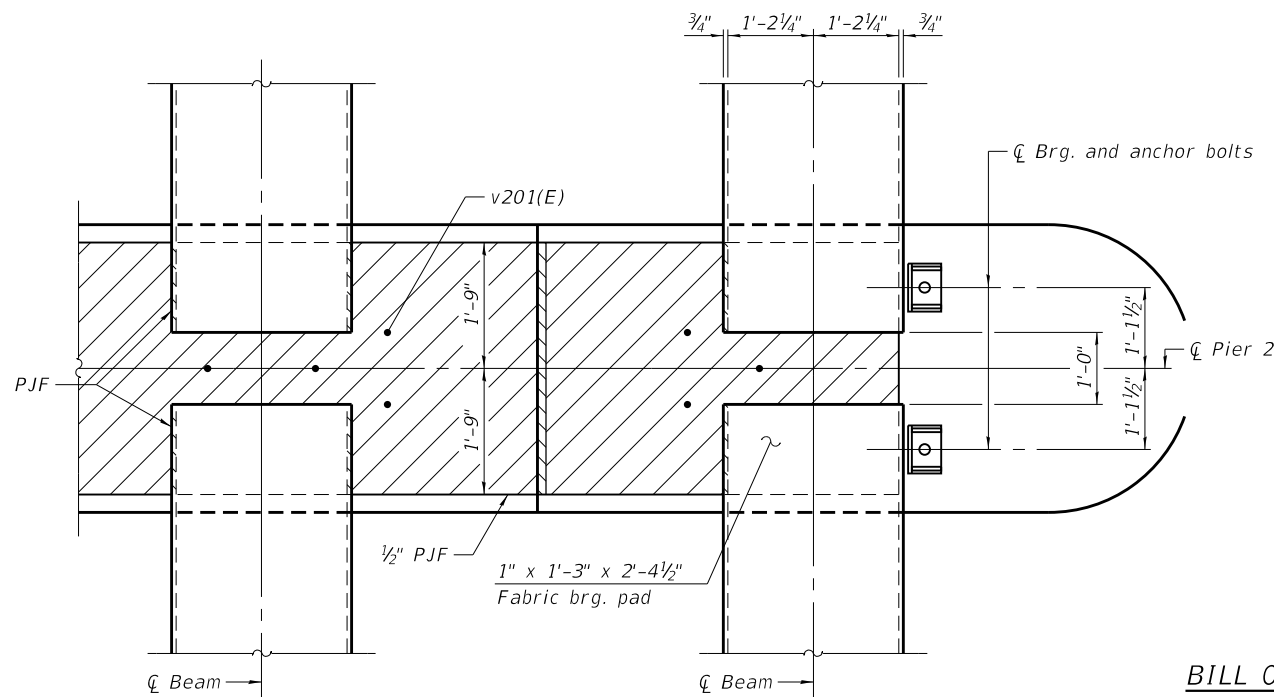


DIAPHRAGM AT PIER 2

*Bonded to sides of beams embedded into diaphragm.

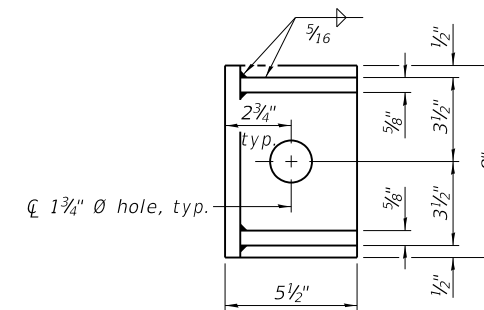
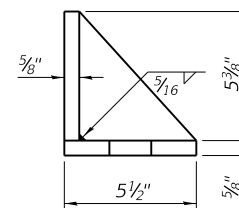


DETAIL 'A'



PLAN AT PIER 2

(Showing bearing pads and P.J.F. details)



SIDE RETAINER

(2 required each side of pier).
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

| Item | Unit | Total |
|----------------------|------|-------|
| Anchor Bolts, 1 1/2" | Each | 4 |

Notes:

- See sheet 10 of 34 for superstructure details and Bill of Material.
- Cost of side retainers shall be included with Concrete Structures.
- Anchor bolts and side retainers shall be installed as each exterior beam is erected unless an equivalent temporary means of lateral restraint is used.
- All side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
- H.S. bolts in bearing assembly shall be galvanized according to ASTM B 695 Class 50.

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TRANSYSTEMS

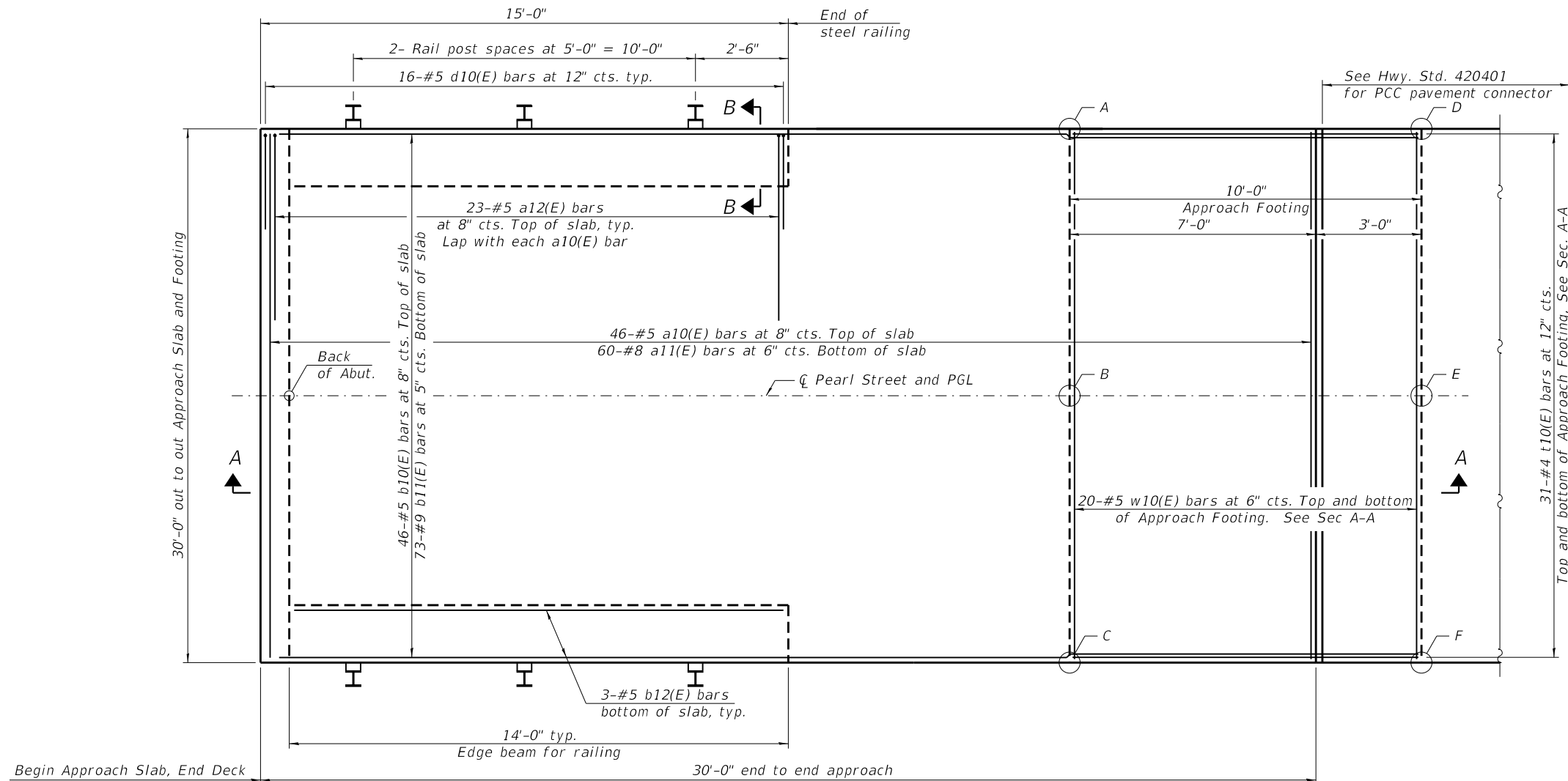
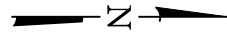
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| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| PLOT SCALE = 2.0000' / in. | CHECKED - OS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - OS | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIXED PIER DIAPHRAGM DETAILS
STRUCTURE NO. 019-6500**

SHEET 14 OF 34 SHEETS

| | | | | |
|-----------|----------------|---------------------------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 47 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS FED. AID PROJECT | | |



Begin Approach Slab, End Deck
Sta. 109+53.15 (South)
Sta. 111+77.06 (North)

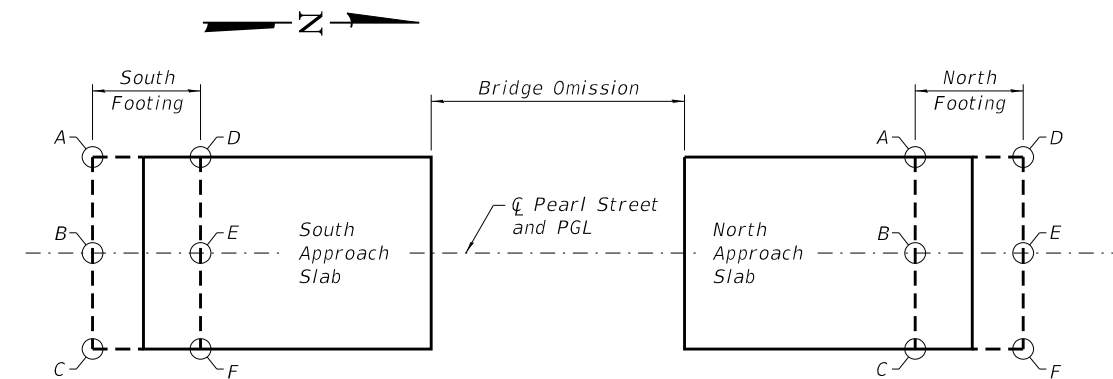
PLAN

(North approach slab shown; South approach slab similar by 180° rotation)

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

| South Approach | | | | | North Approach | | | | |
|----------------|-----------|---------|--------|--------|----------------|-----------|---------|--------|--------|
| Point/Location | Station | Offset | Top | Bottom | Point/Location | Station | Offset | Top | Bottom |
| A | 109+20.15 | -15.00' | 765.85 | 765.02 | A | 112+00.06 | -15.00' | 767.42 | 766.59 |
| B | 109+20.15 | 0.00' | 766.15 | 765.32 | B | 112+00.06 | 0.00' | 767.72 | 766.89 |
| C | 109+20.15 | 15.00' | 765.85 | 765.02 | C | 112+00.06 | 15.00' | 767.42 | 766.59 |
| D | 109+30.15 | -15.00' | 766.10 | 765.26 | D | 112+10.06 | -15.00' | 767.27 | 766.44 |
| E | 109+30.15 | 0.00' | 766.40 | 765.56 | E | 112+10.06 | 0.00' | 767.57 | 766.74 |
| F | 109+30.15 | 15.00' | 766.10 | 765.26 | F | 112+10.06 | 15.00' | 767.27 | 766.44 |

Negative offsets indicate left when looking upstation. Positive offsets indicate right when looking upstation.
See Approach Slab Footing Key Plan.



APPROACH SLAB FOOTING KEY PLAN



| | | |
|---------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| PLOT SCALE = 2,000' / in. | CHECKED - OS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

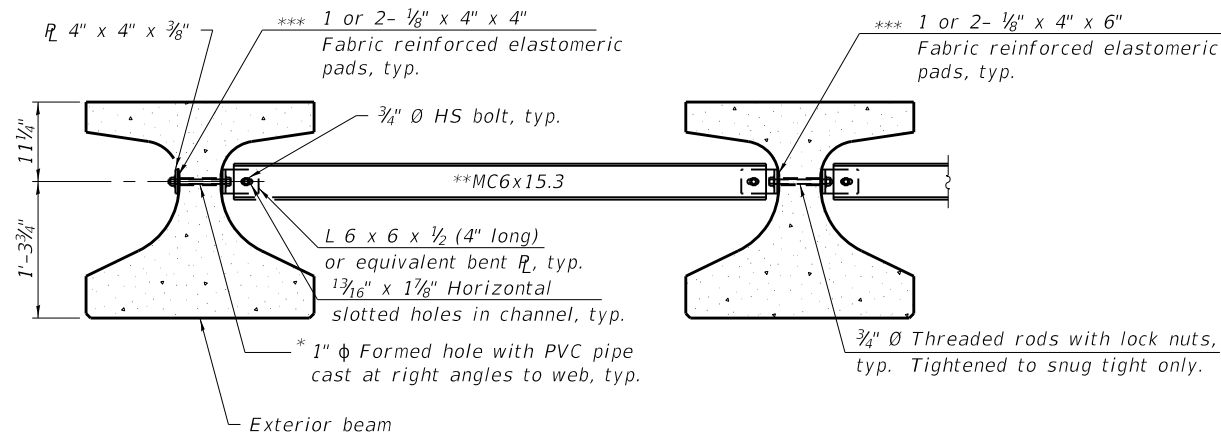
**BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 019-6500**

SHEET 15 OF 34 SHEETS

| | | | | |
|-----------|----------------|--------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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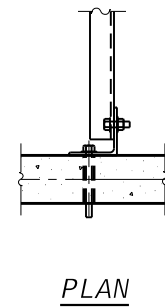
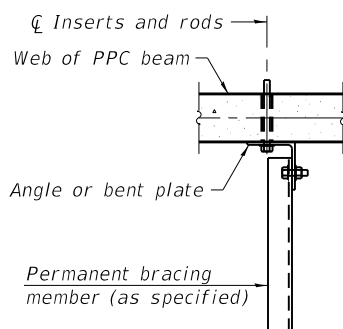
ILLINOIS FED. AID PROJECT

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 PROJECTS: 2021\CH401\1012\10075\Bridges\Standard_Sheets\1.015-Bridges-Approach_Slab_Details_1.dgn



- * Fabricator shall locate to miss strands within permissible tolerances.
- ** Alternate MC6x18 channels are permitted to facilitate material acquisition.
- *** Place pads as necessary to provide a flat mounting surface between the steel and concrete.

PERMANENT BRACING DETAILS FOR IL27N BEAMS



Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.
 All holes shall be 1 5/16" Ø unless otherwise noted. 3/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
 Threaded rods shall be ASTM F 1554 Grade 55.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N.

- I: Non-composite moment of inertia of beam section (in.⁴).
- I': Composite moment of inertia of beam section (in.⁴).
- S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
- S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
- S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- M_{L + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
- R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_L: Un-factored live load reaction (kip).
- R_{IM}: Un-factored dynamic load allowance (impact) (kip).
- R_{Total (Strength I)(Impact)}: Total factored reaction including dynamic load allowance (impact) (kip).
- R_{Total (Strength I)(No Impact)}: Total factored reaction not including dynamic load allowance (impact) (kip).

4 span - interior spans symmetrical and exterior spans symmetrical

| INTERIOR BEAM MOMENT TABLE | | | | | | |
|----------------------------|----------------------------|------------------------|-------------|------------------------|---------|---------|
| | 0.4 Sp. 1 0.6 Sp. 4 | 0.6 Sp. 1 0.4 Sp. 4 | Pier 1 or 3 | 0.5 Sp. 2 0.5 Sp. 3 | Pier 2 | |
| I | (in ⁴) 33,879 | 33,879 | 33,879 | 33,879 | 33,879 | 33,879 |
| I' | (in ⁴) 141,492 | 141,492 | 141,492 | 141,492 | 141,492 | 141,492 |
| S _b | (in ³) 3,060 | 3,060 | 3,060 | 3,060 | 3,060 | 3,060 |
| S _b ' | (in ³) 6,288 | 6,288 | 6,288 | 6,288 | 6,288 | 6,288 |
| S _t | (in ³) 2,126 | 2,126 | 2,126 | 2,126 | 2,126 | 2,126 |
| S _t ' | (in ³) 31,442 | 31,442 | 31,442 | 31,442 | 31,442 | 31,442 |
| DC1 | (k/ft) 1.166 | 1.166 | 1.166 | 1.166 | 1.166 | 1.166 |
| M _{DC1} | (k) 204 | 132 | -333 | 181 | -361 | |
| DC2 | (k/ft) 0.198 | 0.198 | 0.198 | 0.198 | 0.198 | 0.198 |
| M _{DC2} | (k) 35 | 23 | -57 | 31 | -62 | |
| DW | (k/ft) 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| M _{DW} | (k) 44 | 29 | -72 | 39 | -78 | |
| LLDF | 0.649 | 0.649 | 0.638 | 0.628 | 0.638 | |
| M _{L + IM} | (k) 487 | 433 | -463 | 486 | -552 | |

| INTERIOR BEAM REACTION TABLE | | | | | |
|--|-----------|--------------------------------|--------------------------------|--------------------------------|-------|
| | Abutments | Pier 1 Span 1 Pier 3 Span 4 | Pier 1 Span 2 Pier 3 Span 3 | Pier 2 Span 2 Pier 2 Span 3 | |
| LLDF | 0.649 | 0.649 | 0.649 | 0.649 | 0.649 |
| R _{DC1} | (k) 28.5 | 28.5 | 34.3 | 34.3 | |
| * R _{DC2} | (k) 4.9 | 4.9 | 5.9 | 5.9 | |
| * R _{DW} | (k) 6.2 | 6.2 | 7.4 | 7.4 | |
| * R _{L + IM} | (k) 93.3 | 93.3 | 100.5 | 100.5 | |
| R _{Total (Strength I)(Impact)} | (k) 214.4 | 214.4 | 237.3 | 237.3 | |
| R _{Total (Strength I)(No Impact)} | (k) 180.6 | 180.6 | 201.7 | 201.7 | |

* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

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| | | |
|----------------------------|----------------|-------------|
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| PLOT SCALE = 2.0000' / in. | CHECKED - OS | REVISIONS - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISIONS - |
| | CHECKED - OS | REVISIONS - |

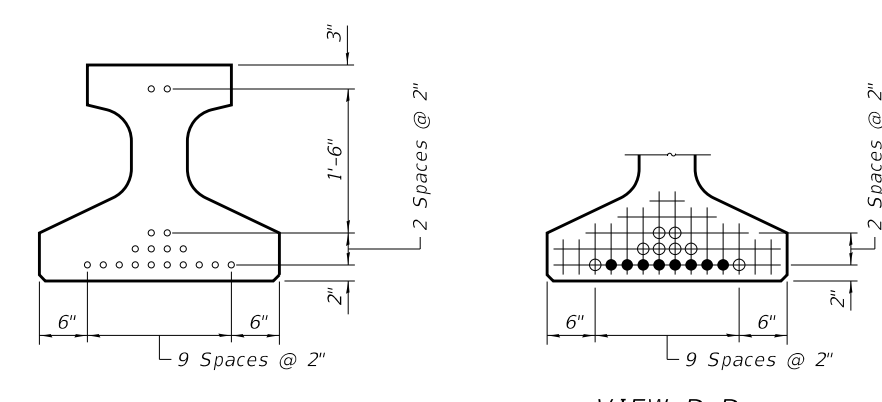
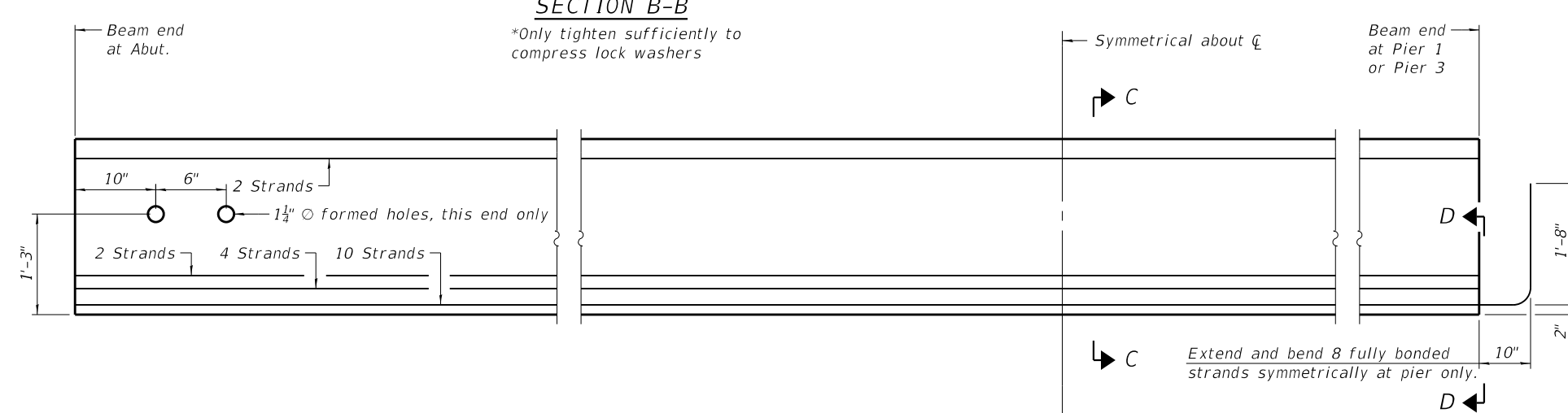
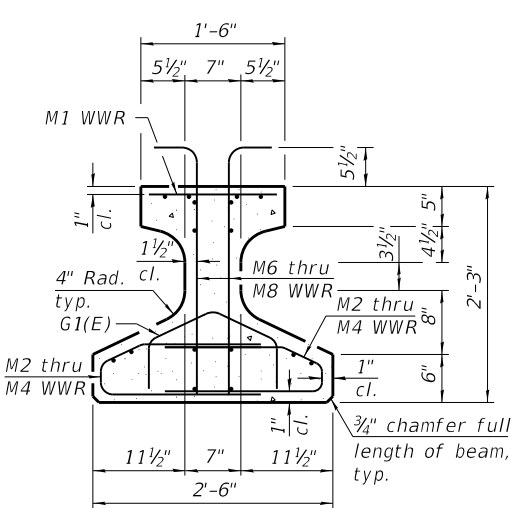
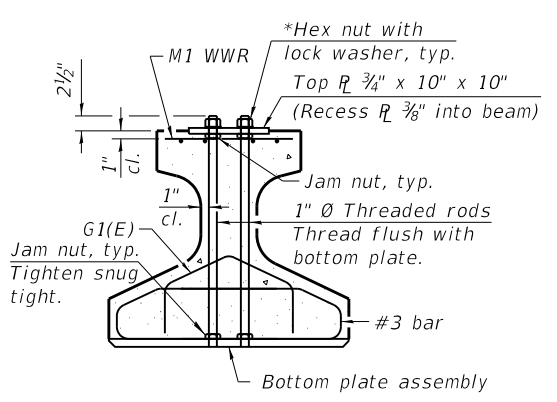
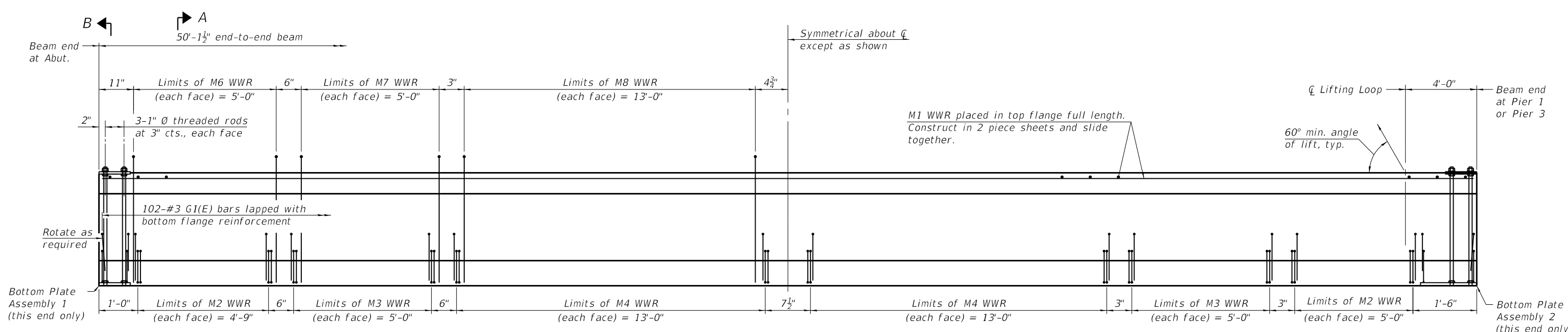
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING DETAILS
 STRUCTURE NO. 019-6500**

SHEET 18 OF 34 SHEETS

| | | | | |
|---------------------------|----------------|--------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 51 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

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SPAN 1 AND SPAN 4
 IL27N-1830
 Strand Pattern = 16B-2T-0db-0d

Note:
 See sheet 21 of 34 for additional details and Bill of Material.
 See sheets 17 & 18 of 34 for diaphragm drilling locations.



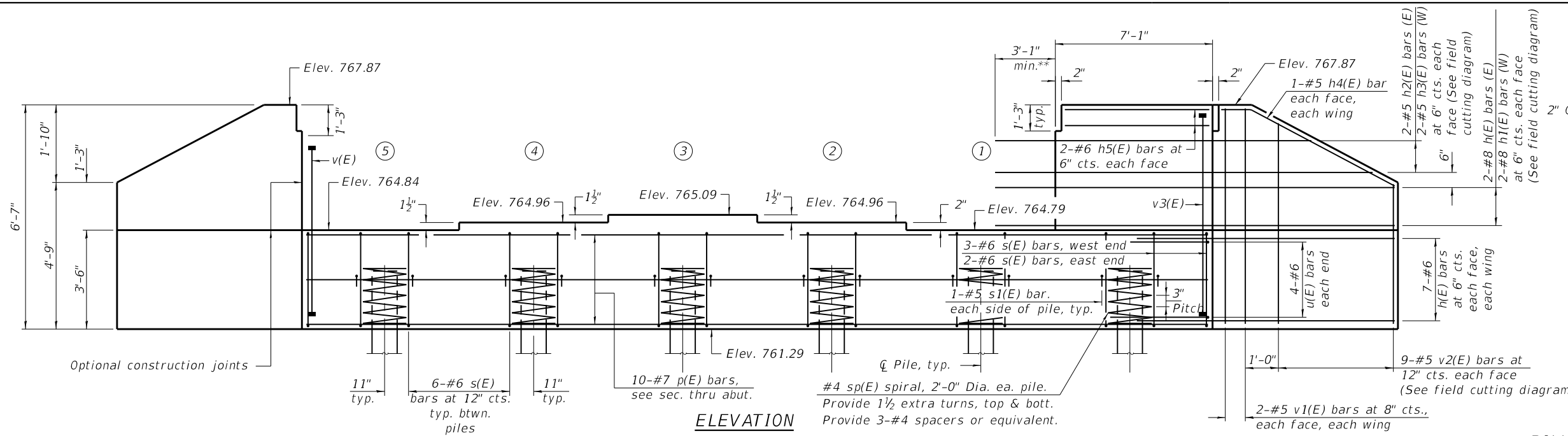
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| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - OS | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

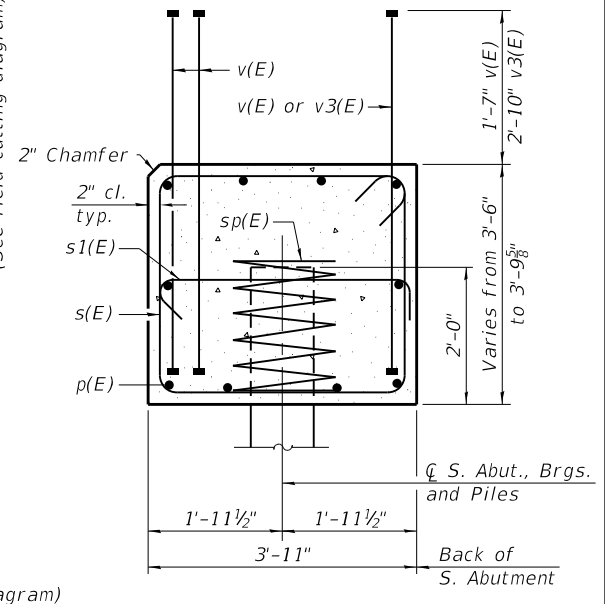
IL27N BEAM (SPANS 1 AND 4)
STRUCTURE NO. 019-6500

SHEET 19 OF 34 SHEETS

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 52 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



ELEVATION
(Looking South)
57'-5"



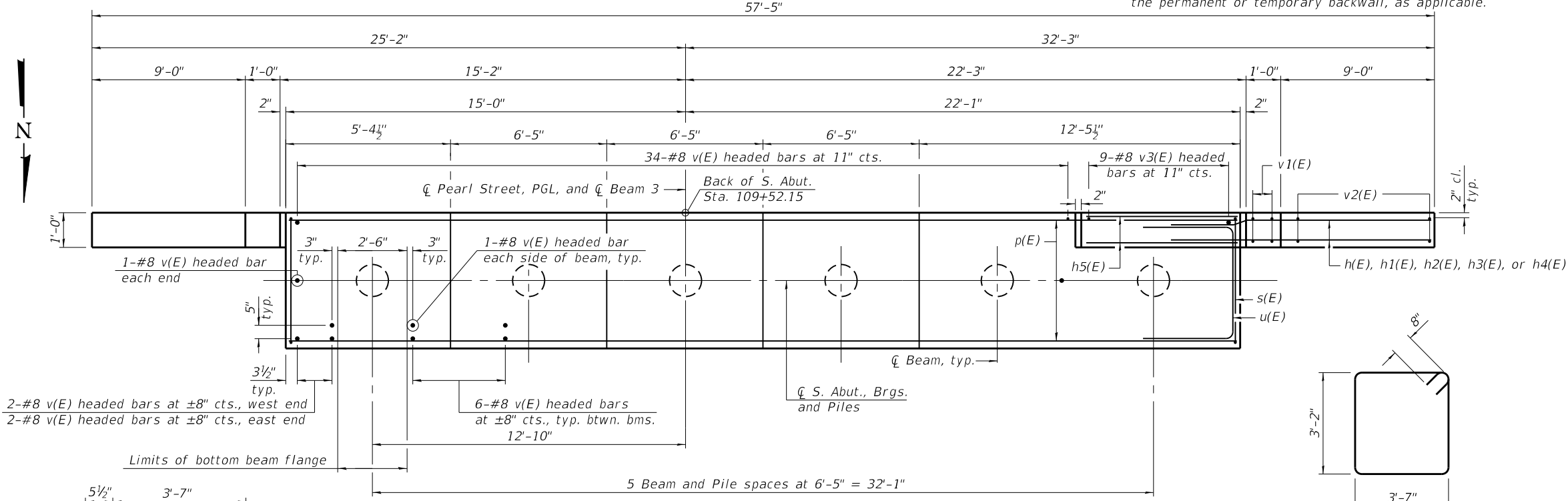
SEC. THRU ABUT.

BILL OF MATERIAL - SOUTH ABUTMENT

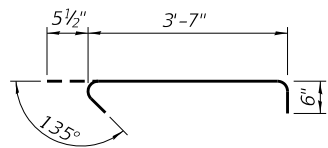
| Bar | No. | Size | Length | Shape |
|-------|-----|------|---------|-------|
| h(E) | 32 | #6 | 13'-1" | — |
| h1(E) | 4 | #6 | 20'-2" | — |
| h2(E) | 2 | #6 | 22'-2" | — |
| h3(E) | 2 | #6 | 36'-4" | — |
| h4(E) | 4 | #5 | 9'-10" | — |
| h5(E) | 4 | #6 | 6'-7" | — |
| p(E) | 10 | #7 | 36'-9" | — |
| s(E) | 35 | #6 | 14'-10" | □ |
| s1(E) | 12 | #5 | 4'-7" | ┌ |
| sp(E) | 6 | #4 | 2'-0" | ⌀ |
| u(E) | 8 | #6 | 12'-1" | └ |
| v(E) | 74 | #8 | 4'-11" | — |
| v1(E) | 8 | #5 | 6'-2" | — |
| v2(E) | 18 | #5 | 10'-4" | — |
| v3(E) | 9 | #8 | 6'-2" | — |

| | | |
|---|---------|-------|
| Structure Excavation | Cu. Yd. | 456.3 |
| Concrete Structures | Cu. Yd. | 24.6 |
| Reinforcement Bars, Epoxy Coated | Pound | 4,410 |
| Furnishing Metal Shell Piles 16" x 0.375" | Foot | 185 |
| Driving Piles | Foot | 185 |
| Test Pile Metal Shells | Each | 1 |
| Pile Shoes | Each | 6 |
| Granular Backfill for Structures | Cu. Yd. | 57.9 |
| Geocomposite Wall Drain | Sq. Yd. | 36 |
| Pipe Underdrains for Structures, 4" | Foot | 68 |
| Stone Riprap, Class A5 | Sq. Yd. | 622 |
| Filter Fabric | Sq. Yd. | 622 |
| Permanent Sheet Piling | Sq. Yd. | 2,478 |
| Bar Terminators | Each | 166 |

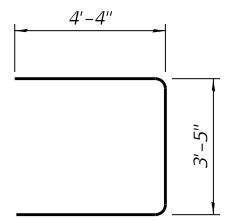
* Length is height of spiral.



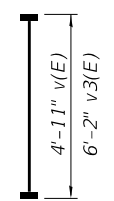
PLAN



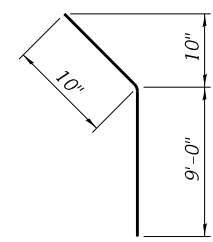
BAR s1(E)



BAR u(E)



BAR v(E) or v3(E)



BAR h4(E)

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 27 of 34.
For scour protection details see sheet 24 of 34.
The Pipe Underdrain shall only slope to the East.
For additional backwall details see sheet 24 of 34.
For bar cutting diagram see sheet 24 of 34.

SOUTH ABUTMENT PILE DATA
Type: PP16 x 0.375" with pile shoes
Nominal Required Bearing: 665 kips
Factored Resistance Available: 366 kips
Est. Length: 37 feet
No. Production Piles: 5
No. Test Piles: 1

LEGEND
① Beam Number



| | | |
|----------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| PLOT SCALE = 2,0000' / in. | CHECKED - OS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - OS | REVISED - |

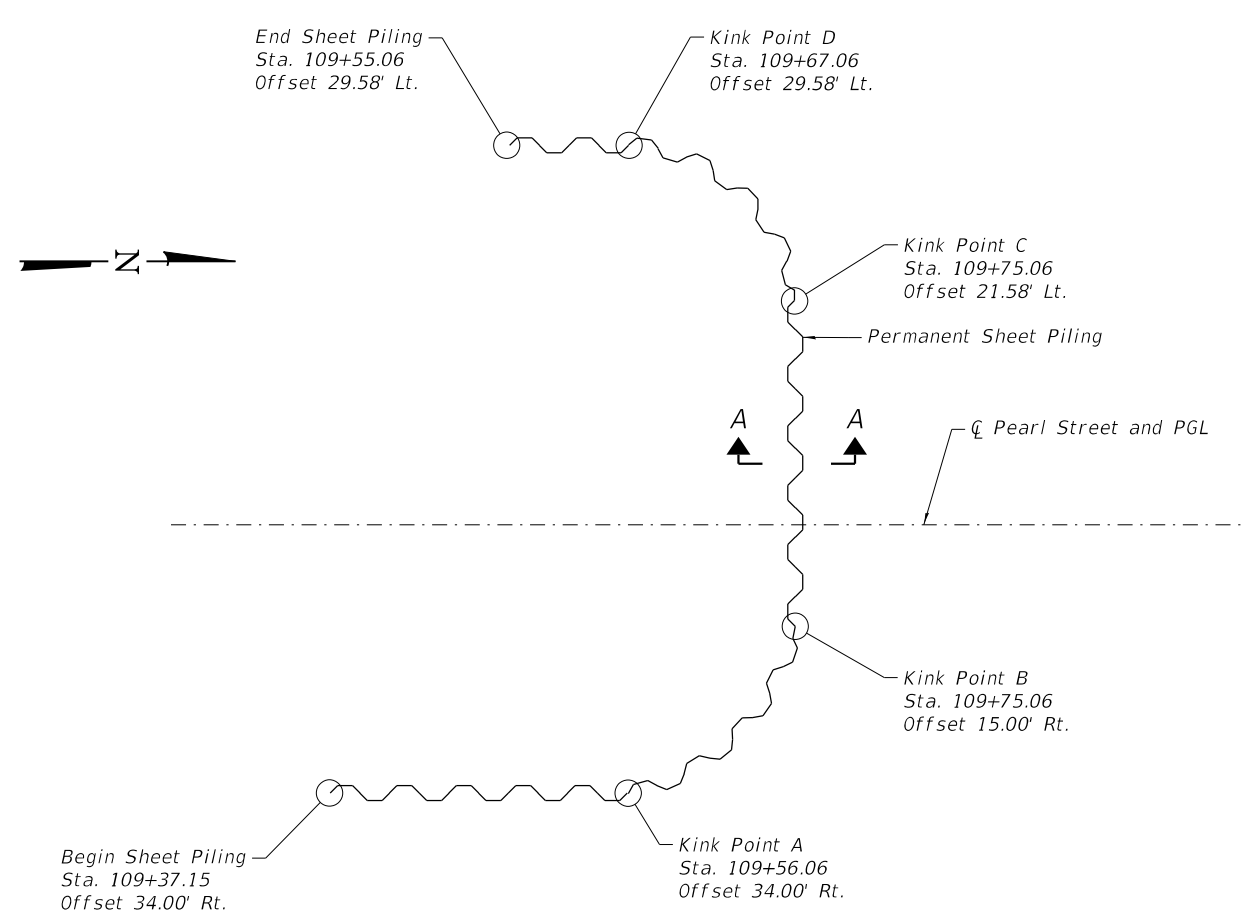
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 019-6500

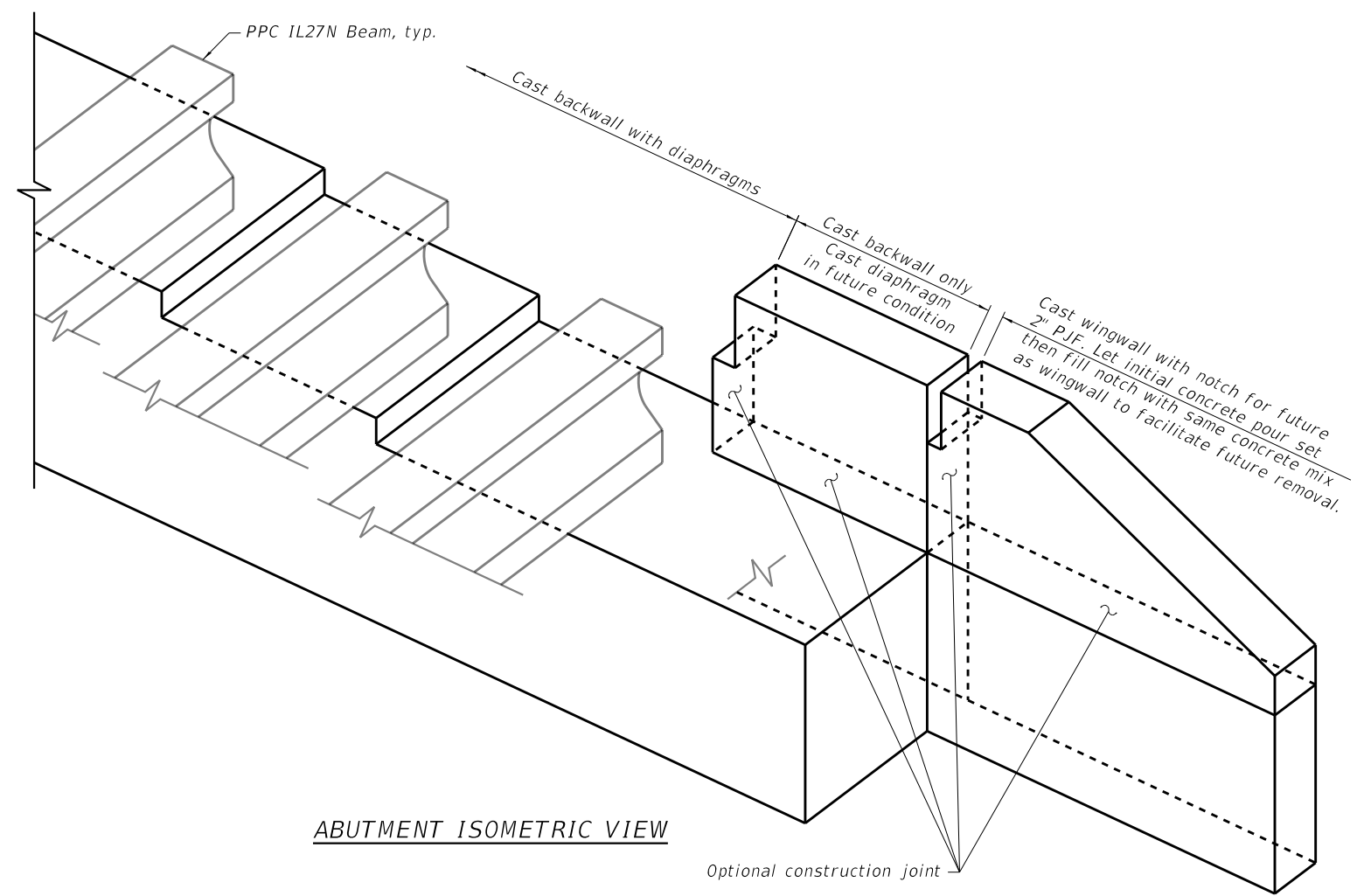
SHEET 22 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 55 |

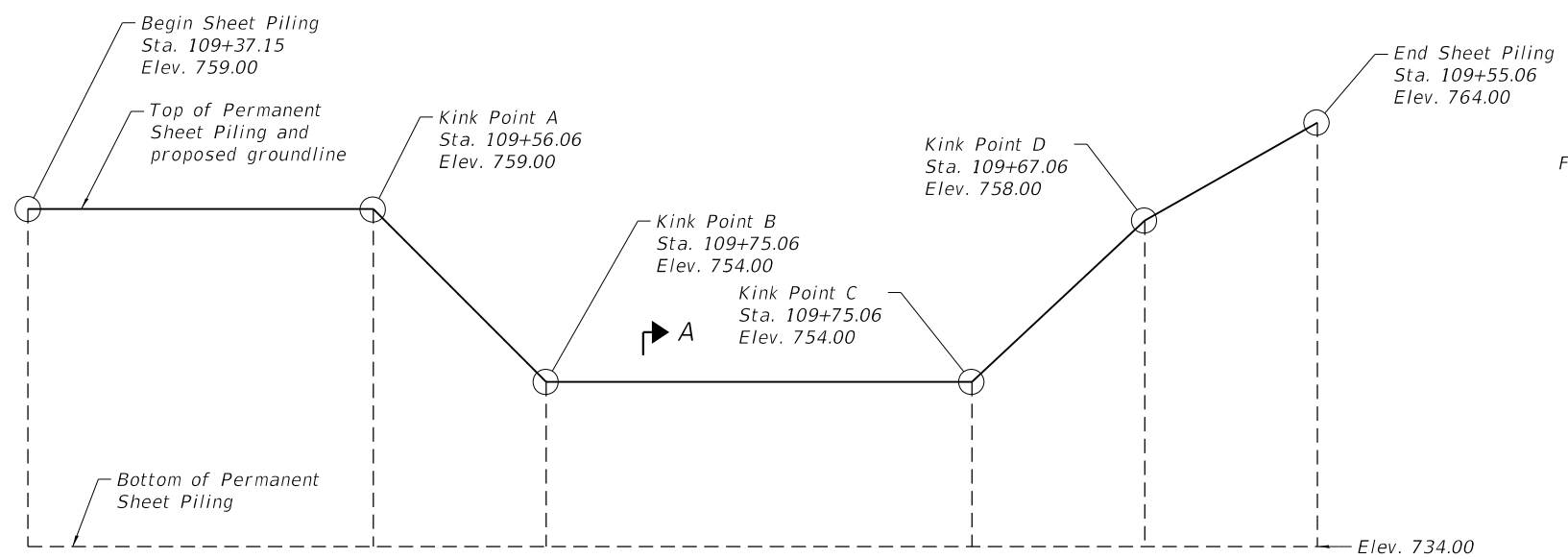
CONTRACT NO. 87722
ILLINOIS | FED. AID PROJECT



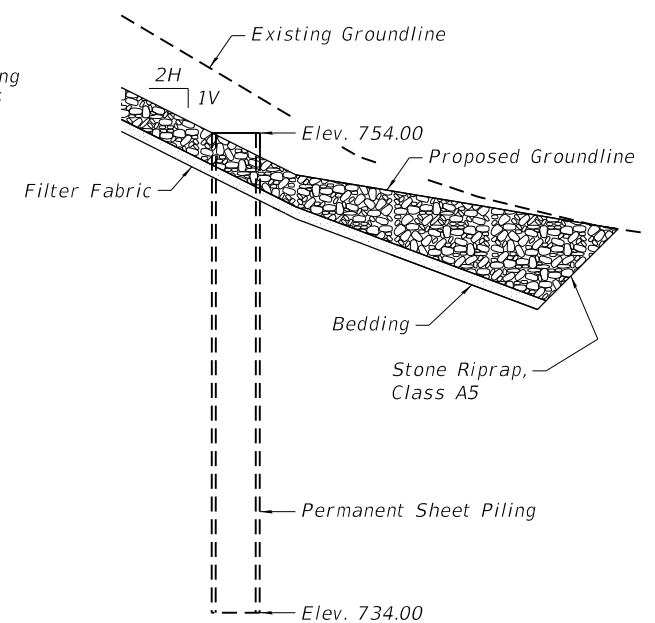
SHEET PILE LAYOUT PLAN



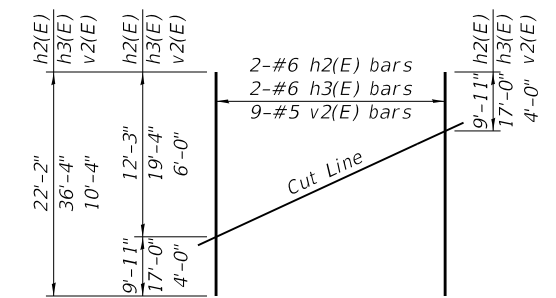
ABUTMENT ISOMETRIC VIEW



UNFOLDED SHEET PILE ELEVATION
(Looking South)



SECTION A-A



FIELD CUTTING DIAGRAM

Order h2(E), h3(E), and v2(E) full length.
Cut h2(E) and h3(E) as shown and use remainder of bars on same face of same wing.
Cut v2(E) as shown and use remainder of bars on opposite face of same wing.

Notes:
The top of the permanent sheet piling shall be flush with the top of the proposed A5 riprap.
The permanent sheet piling shall be installed after the existing structure has been removed.
The material specifications for the permanent sheet piling to be installed at the South Abutment shall be submitted to and approved by the engineer prior to any construction activities beginning.

MODEL: Default
 FILE: Abutment_Details.dwg
 PROJECT: 2021\CH01\04\12\100750\Bridges\Standard_Sheets.dwg
 REVISION: Final\1096500_024-Abutment_Details.dwg
 USER: sbpottorff



| | | |
|-----------------------------|---------------|-----------|
| USER NAME = sbpottorff | DESIGNED - OS | REVISIONS |
| PLOT SCALE = 32.0000' / in. | CHECKED - RAA | REVISIONS |
| PLOT DATE = 4/4/2024 | DRAWN - OS | REVISIONS |
| | CHECKED - RAA | REVISIONS |

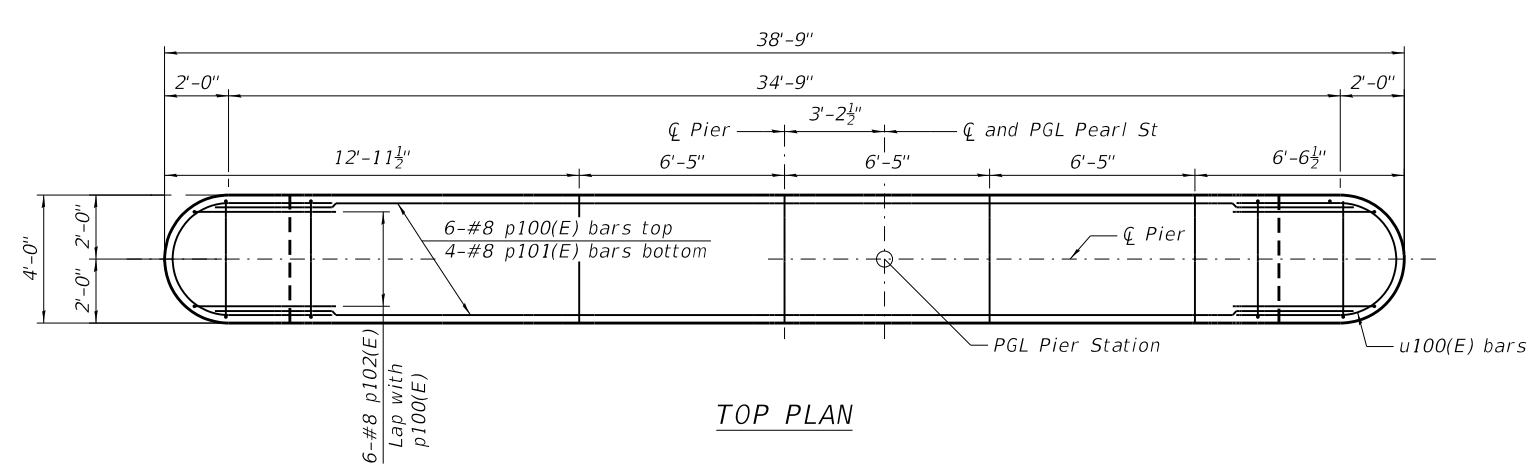
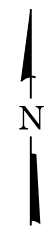
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS
STRUCTURE NO. 019-6500**

SHEET 24 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 57 |
| CONTRACT NO. 87722 | | | | |

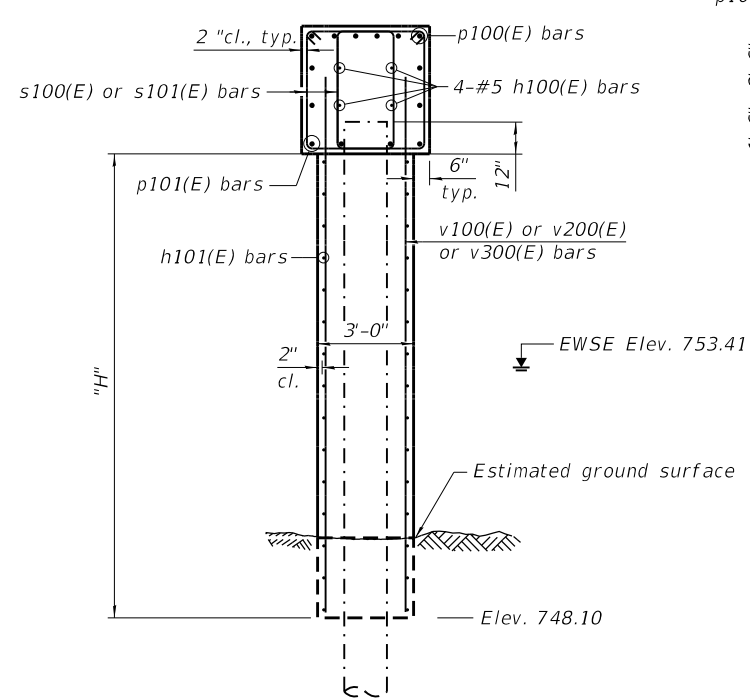
ILLINOIS FED. AID PROJECT



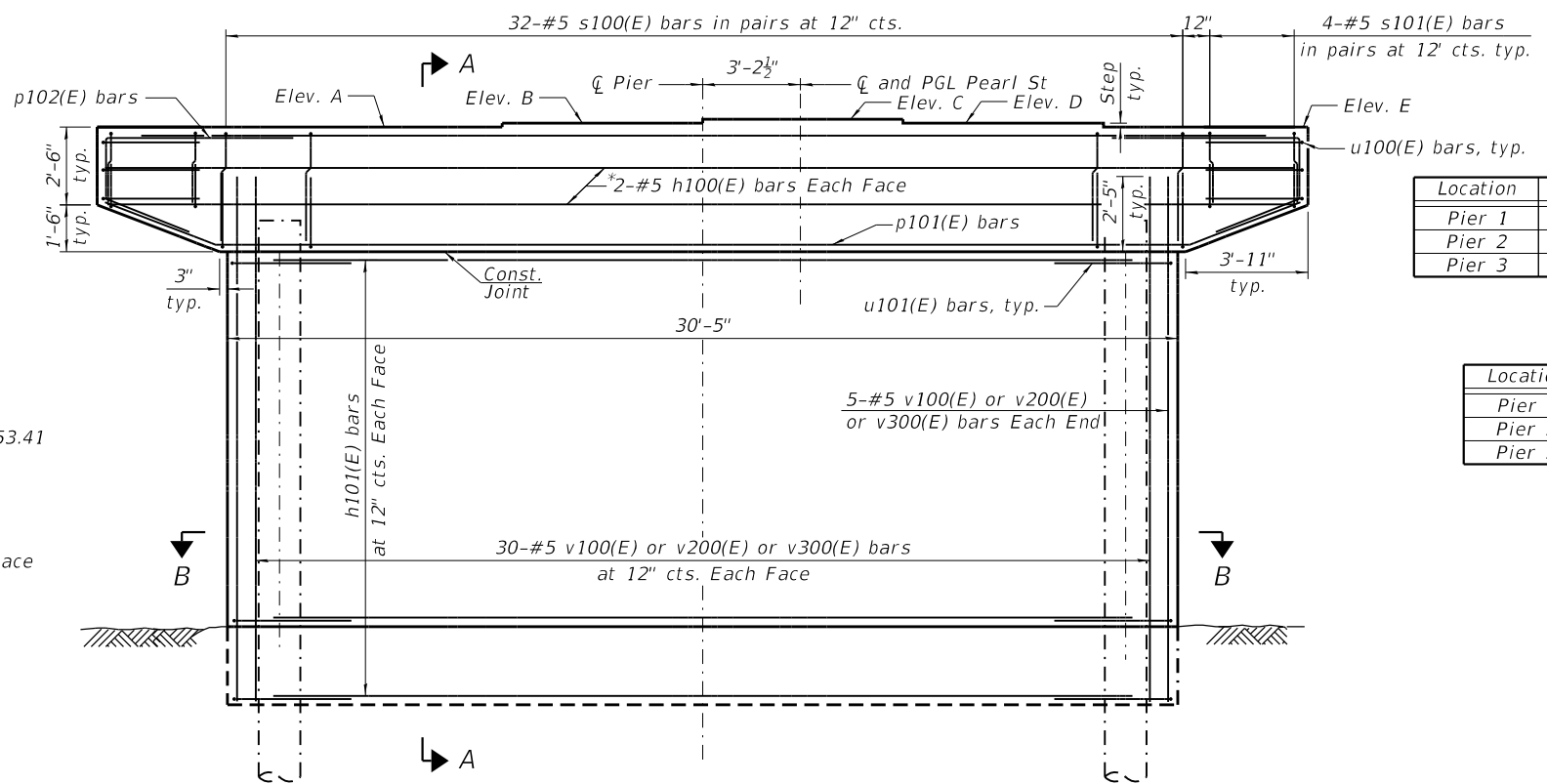
TOP PLAN

ENCASEMENT HEIGHTS

| Location | Station | Estimated Ground Surface Elevation | H |
|----------|-----------|------------------------------------|---------|
| Pier 1 | 110+04.10 | 750.72 | 13'-3" |
| Pier 2 | 110+65.10 | 751.83 | 14'-2" |
| Pier 3 | 111+26.10 | 755.99 | 13'-10" |



SECTION A-A



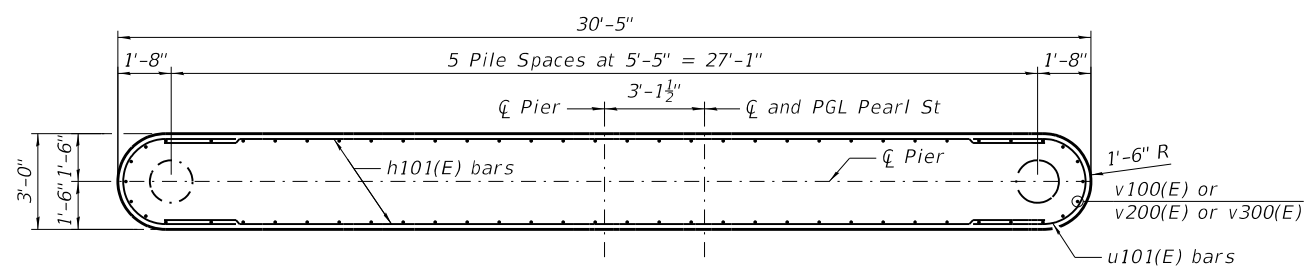
ELEVATION
(Looking North)

STEP ELEVATIONS

| Location | Elev. A | Elev. B | Elev. C | Elev. D | Elev. E |
|----------|---------|---------|---------|---------|---------|
| Pier 1 | 765.31 | 765.48 | 765.61 | 765.48 | 765.35 |
| Pier 2 | 766.22 | 766.39 | 766.52 | 766.39 | 766.26 |
| Pier 3 | 765.92 | 766.09 | 766.22 | 766.09 | 765.97 |

STEP HEIGHTS

| Location | A to B | B to C | C to D | D to E |
|----------|--------|--------|--------|--------|
| Pier 1 | 2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Pier 2 | 2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Pier 3 | 2" | 1 1/2" | 1 1/2" | 1 1/2" |



SECTION B-B

PIER 1 PILE DATA

Type: PP16 x 0.375" with pile shoes
 Nominal Required Bearing: 665 kips
 Factored Resistance Available: 356 kips
 Est. Length: 45 feet
 No. Production Piles: 5
 No. Test Piles: 1

PIER 2 PILE DATA

Type: PP16 x 0.375" with pile shoes
 Nominal Required Bearing: 665 kips
 Factored Resistance Available: 359 kips
 Est. Length: 46 feet
 No. Production Piles: 5
 No. Test Piles: 1

PIER 3 PILE DATA

Type: PP16 x 0.375" with pile shoes
 Nominal Required Bearing: 665 kips
 Factored Resistance Available: 350 kips
 Est. Length: 41 feet
 No. Production Piles: 5
 No. Test Piles: 1

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour Steps Monolithically with cap.
 For Bill of Material and bar details see sheet 26 of 34.
 *Cut to Fit

MODEL: Default
 FILE: h:\mhc\p101\ba-e\transys\corp\pww\1\Documents\Projects_2021\CH401\4012\100750\Bridges\Standard_Sheets\4_Review\Final\0196500_025-Pier 1, Pier 2, and Pier 3.dgn



| | | |
|----------------------------|---------------|-----------|
| USER NAME = sbpottorff | DESIGNED - OS | REVISED - |
| PLOT SCALE = 6,0000' / in. | CHECKED - RAA | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - OS | REVISED - |
| | CHECKED - RAA | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 1, PIER 2, AND PIER 3
STRUCTURE NO. 019-6500**

SHEET 25 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 58 |

CONTRACT NO. 87722

ILLINOIS FED. AID PROJECT

BILL OF MATERIAL - PIER 1

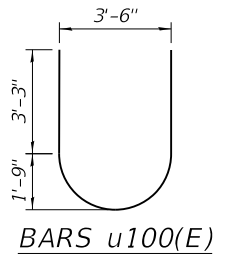
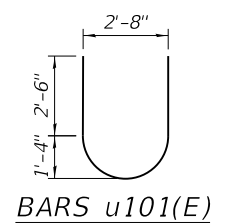
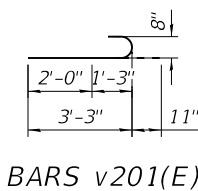
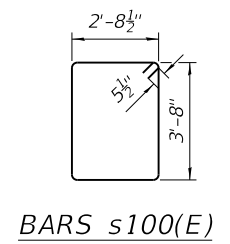
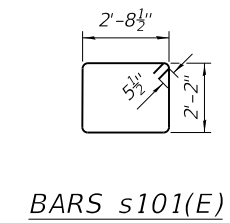
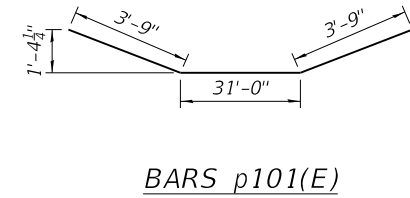
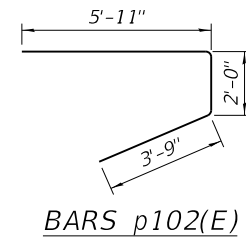
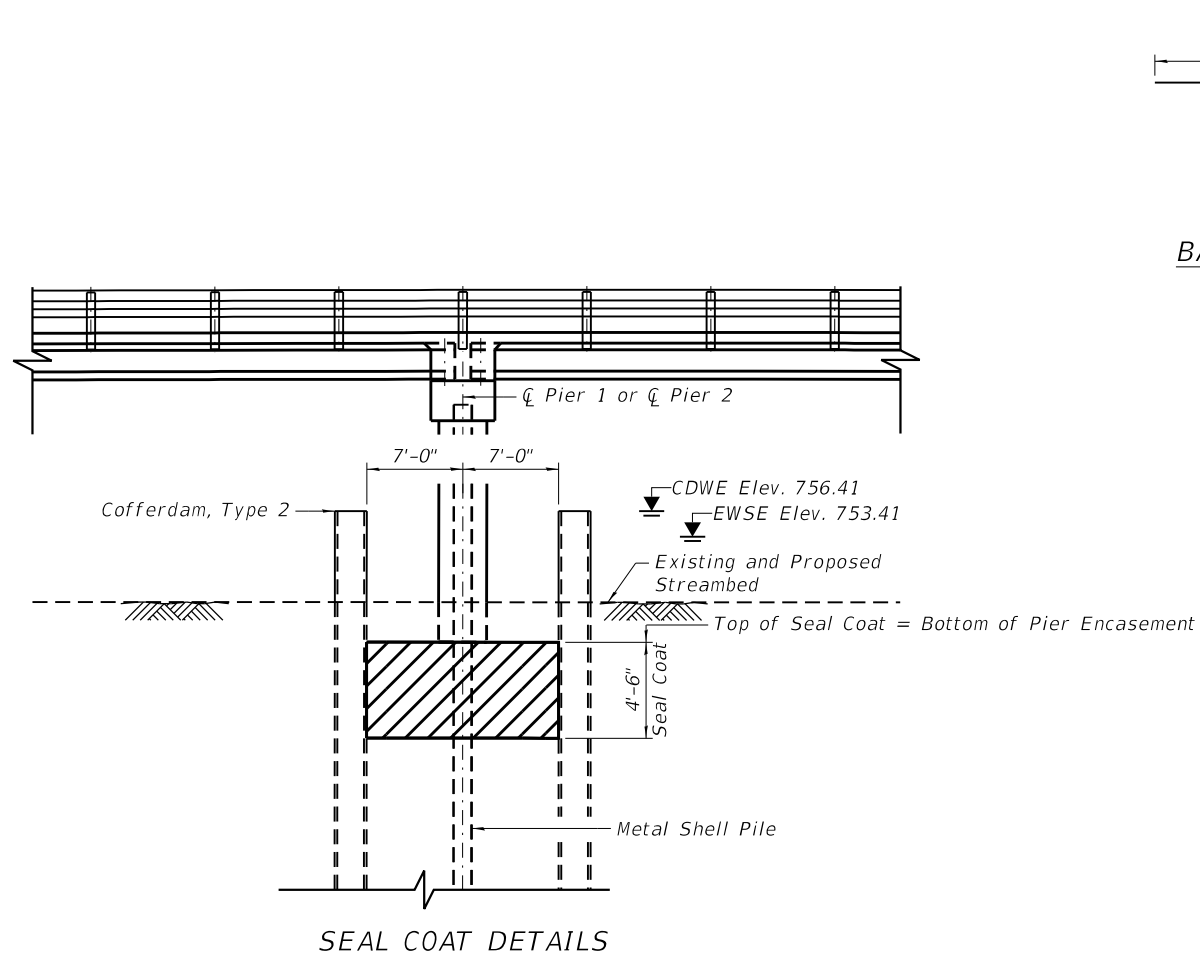
| Bar | No. | Size | Length | Shape |
|---|-----|------|---------|-------|
| h100(E) | 8 | #5 | 38'-0" | — |
| h101(E) | 28 | #5 | 27'-3" | — |
| p100(E) | 6 | #8 | 36'-0" | — |
| p101(E) | 4 | #8 | 38'-8" | ⌋ |
| p102(E) | 12 | #8 | 11'-8" | ⌋ |
| s100(E) | 64 | #5 | 13'-8" | □ |
| s101(E) | 16 | #5 | 10'-8" | □ |
| u100(E) | 6 | #5 | 12'-3" | ⌋ |
| u101(E) | 28 | #5 | 9'-3" | ⌋ |
| v100(E) | 70 | #5 | 15'-8" | — |
| Reinforcement Bars, Epoxy Coated | | | Pound | 5,060 |
| Concrete Structures | | | Cu. Yd. | 68.3 |
| Cofferdam Excavation | | | Cu. Yd. | 166.1 |
| Cofferdam (Type 2) | | | Each | 1 |
| Furnishing Metal Shell Piles 16" x 0.375" | | | Foot | 225 |
| Driving Piles | | | Foot | 225 |
| Test Pile Metal Shells | | | Each | 1 |
| Pile Shoes | | | Each | 6 |
| Seal Coat Concrete | | | Cu. Yd. | 105.0 |

BILL OF MATERIAL - PIER 2

| Bar | No. | Size | Length | Shape |
|---|-----|------|---------|-------|
| h100(E) | 8 | #5 | 38'-0" | — |
| h101(E) | 30 | #5 | 27'-3" | — |
| p100(E) | 6 | #8 | 36'-0" | — |
| p101(E) | 4 | #8 | 38'-8" | ⌋ |
| p102(E) | 12 | #8 | 11'-8" | ⌋ |
| s100(E) | 64 | #5 | 12'-10" | □ |
| s101(E) | 16 | #5 | 9'-10" | □ |
| u100(E) | 6 | #5 | 12'-3" | ⌋ |
| u101(E) | 30 | #5 | 9'-3" | ⌋ |
| v200(E) | 70 | #5 | 16'-4" | — |
| v201(E) | 30 | #8 | 4'-2" | ⌋ |
| Reinforcement Bars, Epoxy Coated | | | Pound | 5,450 |
| Concrete Structures | | | Cu. Yd. | 66.3 |
| Cofferdam Excavation | | | Cu. Yd. | 192.0 |
| Cofferdam (Type 2) | | | Each | 1 |
| Furnishing Metal Shell Piles 16" x 0.375" | | | Foot | 230 |
| Driving Piles | | | Foot | 230 |
| Test Pile Metal Shells | | | Each | 1 |
| Pile Shoes | | | Each | 6 |
| Seal Coat Concrete | | | Cu. Yd. | 105.0 |

BILL OF MATERIAL - PIER 3

| Bar | No. | Size | Length | Shape |
|---|-----|------|---------|-------|
| h100(E) | 8 | #5 | 38'-0" | — |
| h101(E) | 30 | #5 | 27'-3" | — |
| p100(E) | 6 | #8 | 36'-0" | — |
| p101(E) | 4 | #8 | 38'-8" | ⌋ |
| p102(E) | 12 | #8 | 11'-8" | ⌋ |
| s100(E) | 64 | #5 | 12'-10" | □ |
| s101(E) | 16 | #5 | 9'-10" | □ |
| u100(E) | 6 | #5 | 12'-3" | ⌋ |
| u101(E) | 30 | #5 | 9'-3" | ⌋ |
| v300(E) | 70 | #5 | 16'-0" | — |
| Reinforcement Bars, Epoxy Coated | | | Pound | 5,090 |
| Concrete Structures | | | Cu. Yd. | 52.2 |
| Cofferdam Excavation | | | Cu. Yd. | 184.1 |
| Cofferdam (Type 1) | | | Each | 1 |
| Furnishing Metal Shell Piles 16" x 0.375" | | | Foot | 205 |
| Driving Piles | | | Foot | 205 |
| Test Pile Metal Shells | | | Each | 1 |
| Pile Shoes | | | Each | 6 |



Notes:
 The interfaces between the seal coat concrete and both the temporary cofferdam and the foundation shell piles shall be free of any material, such as mud, that may weaken the bond between the joined materials.
 For bottom of pier elevations, see sheet 25 of 34.
 The final seal coat thickness shall be designed by the Contractor.
 For Details of v201(E) bars placement see sheet 14 of 34.

MODEL: Default
 FILE: h:\m1012_14\12\100735\Bridges\Standard_Sheets\1. Review\Final\0196500_026-Pier_Details.dgn
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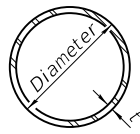
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|----------------------------|---------------|-----------|
| USER NAME = sbpottorff | DESIGNED - OS | REVISED - |
| PLOT SCALE = 6,0000' / in. | CHECKED - RAA | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - OS | REVISED - |
| | CHECKED - RAA | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
 STRUCTURE NO. 019-6500**

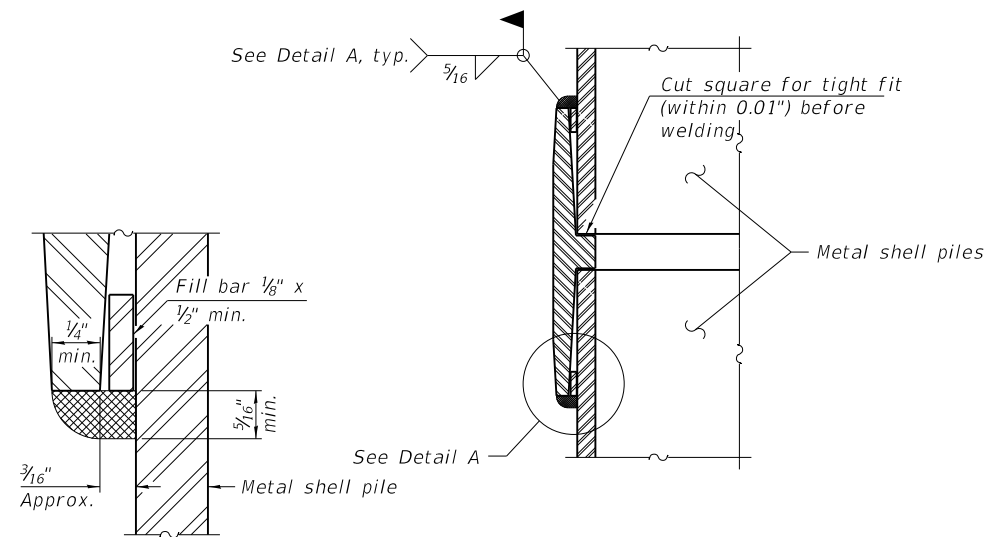
SHEET 26 OF 34 SHEETS

| | | | | |
|--------------------|----------------|------------------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 59 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



METAL SHELL PILE TABLE

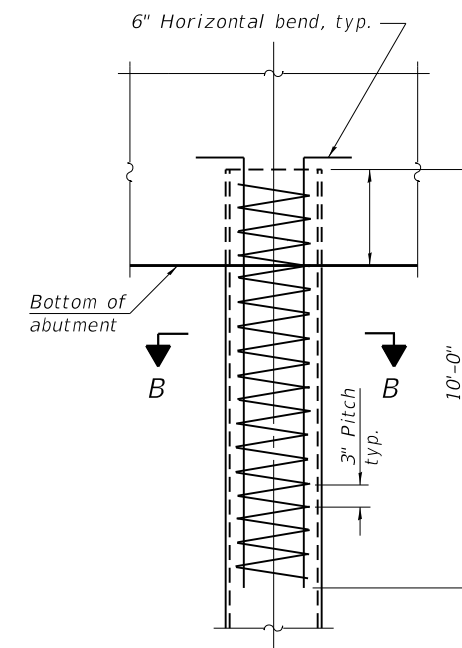
| Designation and outside diameter | Wall thickness t | Weight per foot (Lbs./ft.) | Inside volume (yd. ³ /ft.) |
|----------------------------------|------------------|----------------------------|---------------------------------------|
| PP16 | 0.375" | 62.64 | 0.0470 |



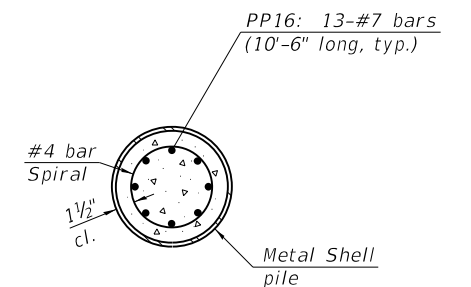
DETAIL A

WELDED COMMERCIAL SPLICE

Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

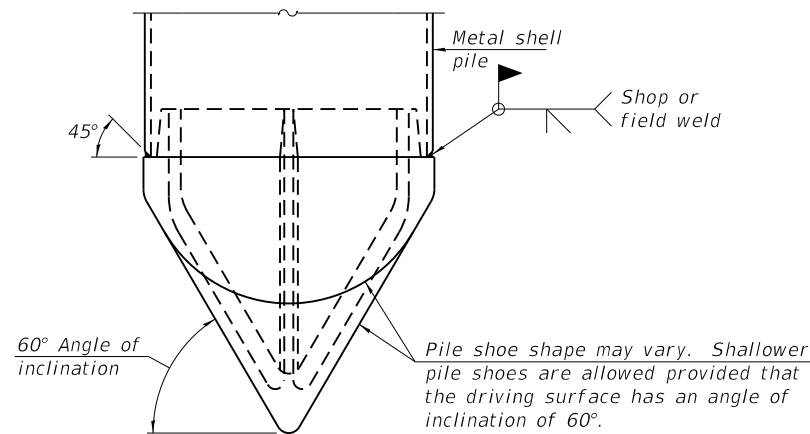


ELEVATION



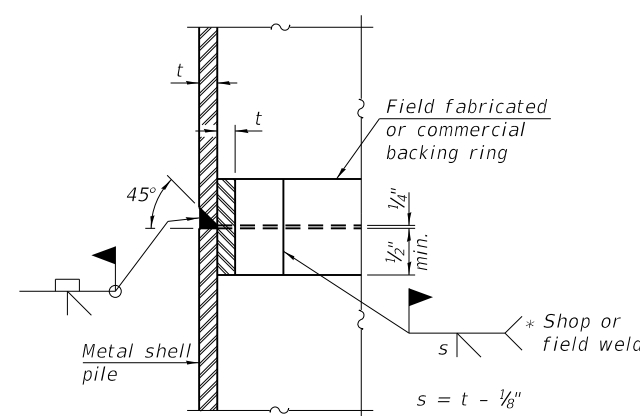
SECTION B-B

REINFORCEMENT AT ABUTMENTS



PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

Note:
 The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

MODEL: Default
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 PROJECTS: 2021\CH401\1401210075\Bridges\Standard_Sheets\196500_027-Metal Shell Pile_Detail.dgn
 TRANSSYSTEMS CORPORATION
 1000 W. 100th Street, Suite 100, Overland Park, KS 66211-2698
 TEL: 913-666-1000 FAX: 913-666-1001
 WWW: www.transcorp.com



| | | |
|---------------------------|----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - RAA | REVISED - |
| PLOT SCALE = 2,000' / in. | CHECKED - ESS | REVISED - |
| PLOT DATE = 4/4/2024 | DRAWN - RAA | REVISED - |
| | CHECKED - ESS | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 019-6500**

SHEET 27 OF 34 SHEETS

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|---------------------------|--------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 60 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS FED. AID PROJECT | | |

ROUTE 6090 DESCRIPTION South Pier LOGGED BY A.T.

SECTION 14-00009-00-BR LOCATION SEC. 24, TWP. 42N, RNG. 3E, 3rd PM

COUNTY DeKalb DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 019-6500
Station 110+65.10

BORING NO. BSB-02
Station 109+95.19
Offset 3.49RT
Ground Surface Elev. 768.82 ft

Surface Water Elev. 753.41 ft
Stream Bed Elev. 750.68 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

| DEPTH (ft) | DESCRIPTION | U | M | D | B | U | M |
|------------|---|------|-----|-----|-----|-----|-----|
| (ft) (/6") | (tsf) (%) | TSF | BLW | TSF | BLW | TSF | BLW |
| 768.30 | Approximately 6 1/4 inches of CONCRETE BRIDGE DECK | | | | | | |
| 747.82 | Auger through open air underneath bridge deck to approximately 11 feet below existing grade | | | | | | |
| 745.32 | Very dense, brown and gray SAND and GRAVEL Possible fill | 50/4 | | 16 | | | |
| | Medium stiff to stiff, gray SILTY CLAY LOAM, trace gravel | 3 | 1.0 | 13 | | | |
| | | 4 | B | | | | |
| | | -25 | 6 | | | | |
| | | 4 | 0.8 | 13 | | | |
| | | 3 | P | | | | |
| | | 5 | | | | | |
| | | 0 | 1.1 | 12 | | | |
| | | 1 | B | | | | |
| | | -10 | 2 | | | | |
| 757.82 | Auger through Kiskawakee River to river bed at approximately 18 feet below existing grade | | | | | | |
| | | 4 | 1.5 | 12 | | | |
| | | 2 | B | | | | |
| | | 3 | | | | | |
| | | 0 | 0.9 | 12 | | | |
| | | 4 | B | | | | |
| | | -15 | 3 | | | | |
| 733.32 | Loose, gray fine-grained SAND, trace gravel | | | 16 | | | |
| | | 2 | | | | | |
| | | 2 | | | | | |
| | | 3 | | | | | |
| 750.82 | 3-inch clay lense observed at approximately 37 1/2 feet below existing grade | | | | | | |
| | | 4 | | 19 | | | |
| | | 3 | | | | | |
| | | -20 | 6 | | | | |

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, from 137 (Rev. 8-99)

ROUTE 6090 DESCRIPTION South Pier LOGGED BY A.T.

SECTION 14-00009-00-BR LOCATION SEC. 24, TWP. 42N, RNG. 3E, 3rd PM

COUNTY DeKalb DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 019-6500
Station 110+65.10

BORING NO. BSB-02
Station 109+95.19
Offset 3.49RT
Ground Surface Elev. 768.82 ft

Surface Water Elev. 753.41 ft
Stream Bed Elev. 750.68 ft

Groundwater Elev.:
First Encounter N/A ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

| DEPTH (ft) | DESCRIPTION | U | M | D | B | U | M |
|------------|---|-------|-----|-----|-----|-----|-----|
| (ft) (/6") | (tsf) (%) | TSF | BLW | TSF | BLW | TSF | BLW |
| 727.82 | Loose, gray fine-grained SAND, trace gravel (continued) | | | | | | |
| | Medium dense, gray coarse-grained SAND, some gravel | 13 | 17 | | | | |
| | | 10 | | | | | |
| | | 16 | | | | | |
| 725.32 | Very dense, gray coarse-grained SAND, some gravel | 12 | 10 | | | | |
| | | 18 | | | | | |
| 724.32 | Very dense, gray SAND and GRAVEL | 45 | 32 | | | | |
| | | 27 | 4.5 | 9 | | | |
| | | 24 | P | | | | |
| | | 5 | | | | | |
| 721.82 | Hard, gray SILTY CLAY LOAM, trace gravel | 6 | 9 | | | | |
| | | 31 | | | | | |
| | | -50 | 39 | | | | |
| 700.32 | Very dense, brown SILTY LOAM, little gravel | 11 | 12 | | | | |
| | | 30 | | | | | |
| | | -70 | 32 | | | | |
| 695.57 | Auger refusal at approximately 73 1/4 feet below existing grade. End of boring at approximately 73 1/4 feet below existing grade. | 50/1" | 12 | | | | |
| | | | | | | | |
| 715.32 | Very dense, gray SANDY LOAM, some gravel, rock chips observed | 44 | 14 | | | | |
| | | 50/5" | | | | | |
| | | -55 | | | | | |
| 710.32 | Very dense, gray SAND and GRAVEL | 32 | 8 | | | | |
| | | 46 | | | | | |
| | | -60 | 41 | | | | |

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, from 137 (Rev. 8-99)

MODEL: Default
FILE: h:\m\c\p\140114012\10075\Bridges\Standards\Sheets\4_Reviewed_Final\0196500_029-Boring_Logs_2.dgn

ROUTE 6090 DESCRIPTION North Abutment LOGGED BY J.W.

SECTION 14-00009-00-BR LOCATION SEC. 24, TWP. 42N, RNG. 3E, 3rd PM

COUNTY Dekalb DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 019-6500 Station 110+65.10
BORING NO. BSB-05 Station 112+30.59 Offset 5.31RT
Ground Surface Elev. 767.63 ft

| DEPTH (ft) | SOIL DESCRIPTION | TESTS | MOISTURE (%) | UNIFORMITY COEFFICIENT | SOIL CLASSIFICATION |
|-----------------|--|-----------|--------------|------------------------|---------------------|
| 0 - 767.21 | Approximately 5 inches of ASPHALT | | | | |
| 767.21 - 766.63 | Approximately 7 inches of GRAVEL FILL | | | | |
| 766.63 - 761.38 | FILL: brown silty clay, trace sand and gravel | 3, 10, 9 | | | 17 |
| 761.38 - 756.63 | FILL: dark brown and black silty clay, trace sand and gravel | 1, 2, 4 | | | 12 |
| 756.63 - 756.13 | Medium dense, brown SAND and GRAVEL | 4, 6, 4 | | | 12 |
| 756.13 - 734.13 | Medium stiff, brown SILTY CLAY, trace sand and gravel | 3, 3, -10 | | | 21 |
| 734.13 - 733.13 | Very stiff, gray SILT, trace sand and gravel | 5, 6, -15 | | | 16 |
| 733.13 - 729.13 | Dense, brown and gray SAND, trace gravel | 7 | | | 16 |
| 729.13 - 718.13 | Stiff, gray SILTY CLAY, trace to little gravel | 3, 3, 5 | | | 11 |
| 718.13 - 709.13 | Very dense, gray SANDY LOAM, trace gravel | 3, 4, -20 | | | 12 |

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, from 137 (Rev. 8-99)

ROUTE 6090 DESCRIPTION North Abutment LOGGED BY J.W.

SECTION 14-00009-00-BR LOCATION SEC. 24, TWP. 42N, RNG. 3E, 3rd PM

COUNTY Dekalb DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 019-6500 Station 110+65.10
BORING NO. BSB-05 Station 112+30.59 Offset 5.31RT
Ground Surface Elev. 767.63 ft

| DEPTH (ft) | SOIL DESCRIPTION | TESTS | MOISTURE (%) | UNIFORMITY COEFFICIENT | SOIL CLASSIFICATION |
|-----------------|---|---------------|--------------|------------------------|---------------------|
| 0 - 704.88 | Very dense, gray SANDY LOAM, trace gravel (continued) | | | | |
| 704.88 - 724.13 | Very hard, brown SILTY CLAY LOAM, trace sand and gravel (continued) | | | | |
| 724.13 - 723.13 | Hard, gray SILTY CLAY, trace gravel | 12, 17 | | | 12 |
| 723.13 - 718.13 | Dense to very dense, gray SANDY LOAM, trace gravel | 4, 5, -25 | | | 12 |
| 718.13 - 714.13 | Very hard, gray SILTY CLAY, trace sand and gravel | 14, 11, 50/5" | | | 11 |
| 714.13 - 711.13 | Medium dense, gray SAND, trace gravel | 5, 8, -55 | | | 12 |
| 711.13 - 709.13 | Very hard, brown SILTY CLAY LOAM, trace sand and gravel | 5, 4, -50/5" | | | 10 |

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)

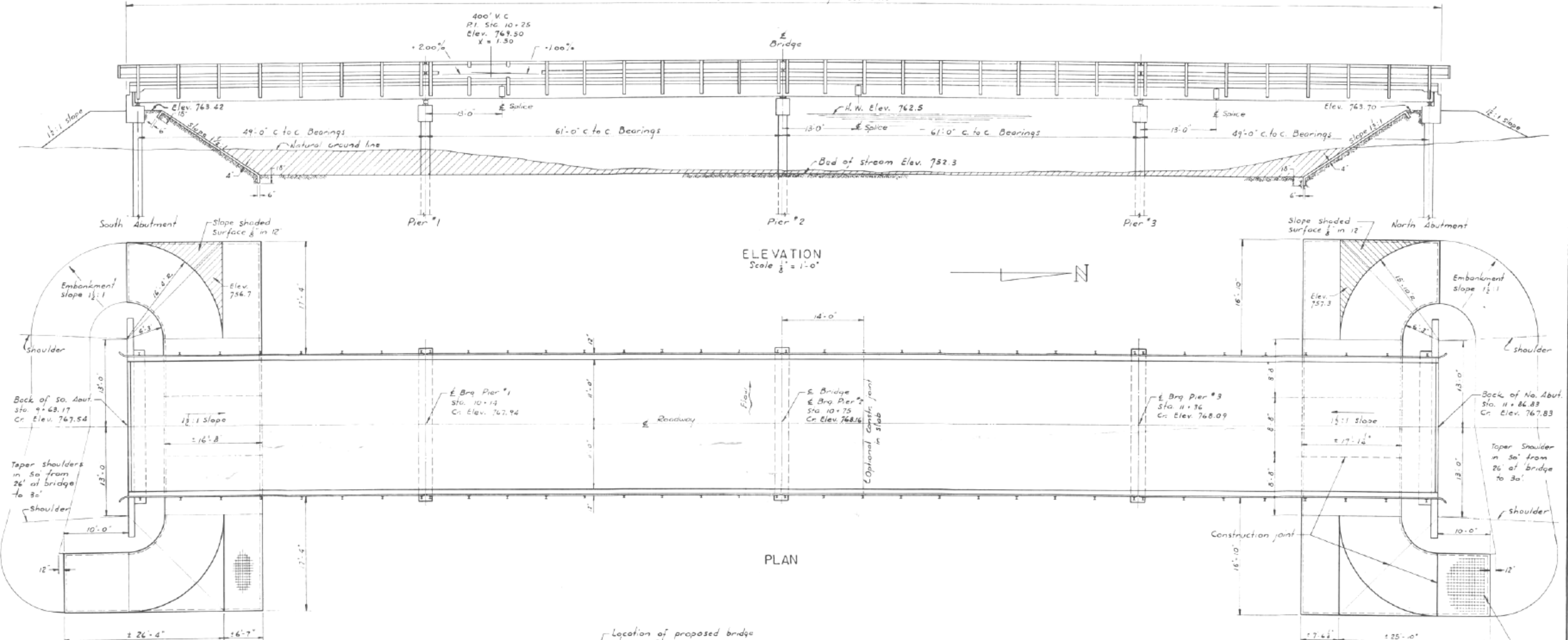
BBS, from 137 (Rev. 8-99)

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Existing Structure: 1-40' span steel approach truss (to be removed) by bridge contractor
1-125' span steel main truss
3-32' steel beam approach spans
masonry abutments and concrete filled piers

B.M.#1-Sp & washer in roof of 24" tree Lt. Sta. 2+80 - Elev. 760.55
B.M.#2-Sp & washer in top of Cor. f. P. Rt. Sta. 4+16 - Elev. 763.51
B.M.#3-Sp & washer in roof 36" tree Rt. Sta. 12+93 - Elev. 766.58
Note: All elevations - U.S.G.S. datum

223'-8" Back to back of Abutments

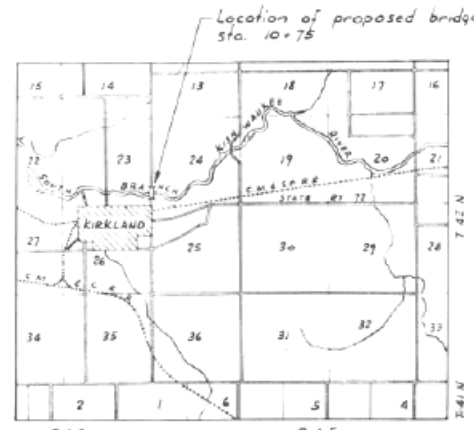


ELEVATION
Scale 1/8" = 1'-0"

PLAN

GENERAL NOTES:

- Class X concrete shall be used throughout.
- Concrete floor slab shall be poured in one continuous operation between construction joints shown on plan and finished in accordance with Art. 3 (c) of the standard specifications. No additional construction joints will be allowed without written permission of the Engineer.
- Structural grade reinforcement bars will not be permitted.
- The Contractor shall drive two concrete test piles as directed by the Engineer before finishing the remainder of the piers.
- All rollers, bearing plates, fold plates, pintles, and anchor bolts shall be furnished, painted, and set in accordance with Art. 56.3 (d) of the standard specifications and are included for payment as Structural Steel.
- Anchor bolts shall be set before riveting diaphragms over abutments or piers.
- Floor drains shall receive one shop coat of red lead paint and 2 field coats of aluminum paint.
- Structural steel shall be inspected by Illinois Division of Highways before painting.
- All structural steel shall receive one shop coat of red lead paint after inspection and shall receive two field coats of aluminum paint.
- All paint shall be furnished and applied by the contractor.
- All connections shall be riveted, unless otherwise noted and all rivets shall be 3/4" dia and open hole 13/16" dia except as noted.
- All splices for stringers shall have rivet holes punched 7/16" dia and reamed to required size with all stringers of a continuous unit assembled in Shop 7 their proper position with or without diaphragms in place. Leave assembled for inspection.
- The Contractor shall place the embankment around the abutments to the lines shown in accordance with Sec. 16 of the Standard Specifications before erecting the steel work.
- The existing bridge and abutments shall be removed by the Contractor and disposed of outside of the right of way in a manner satisfactory to the Engineer. This work shall be paid for at the contract unit price each for "Removal of Existing Structure."



of 3rd P.M.
LOCATION MAP
Scale 1" = 1 Mile

| TOTAL BILL OF MATERIAL | | | | |
|------------------------------------|----------|---------|-------|---------|
| ITEM | UNITS | SUPER | SUB | TOTAL |
| CLASS X CONCRETE | CU. YDS. | 120.8 | 45.4 | 166.2 |
| REINFORCEMENT BARS | LBS. | 26,280 | 4,070 | 30,350 |
| STRUCTURAL STEEL | LBS. | 154,380 | | 154,380 |
| FLOOR DRAINS | EACH | 44 | | 44 |
| PRECAST CONCRETE PILES (8) (32' L) | LIN. FT. | | 320 | 320 |
| PRECAST CONCRETE PILES (8) (60' L) | LIN. FT. | | 600 | 600 |
| PRECAST CONCRETE TEST PILES | EACH | | 2 | 2 |
| CONCRETE - SLOPE WALL | SQ. YDS. | | 267 | 267 |
| NAME PLATE | EACH | | 1 | 1 |
| REMOVAL OF EXISTING STRUCT. | EACH | | 1 | 1 |

Welded wire fabric #4 & #5 wres - 6"x6" mesh reinforcement @ .53" sq. ft. - all walls
lap wire mesh 12" at constr. joints.

Stresses:
fs = 18,000 psi Structural
fs = 20,000 psi Reinforcement
fc = 1,200 psi Superstructure
fc = 800 psi Substructure
m = 10
Note: Structural grade reinforcing bars will not be used.
H-15 Loading

**FRANKLIN TOWNSHIP BRIDGE
DE KALB COUNTY, ILLINOIS**

Drawn by: C.K. Willett
Checked by: R.P. [Signature]
Registered Structural Engineer

C. K. WILLETT
CONSULTING ENGINEERS
DIXON, ILLINOIS

Date: March 24, 1949
Revised: May, 1949

Sheet 7
of 11 Sheets



| | | |
|---------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 2,000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

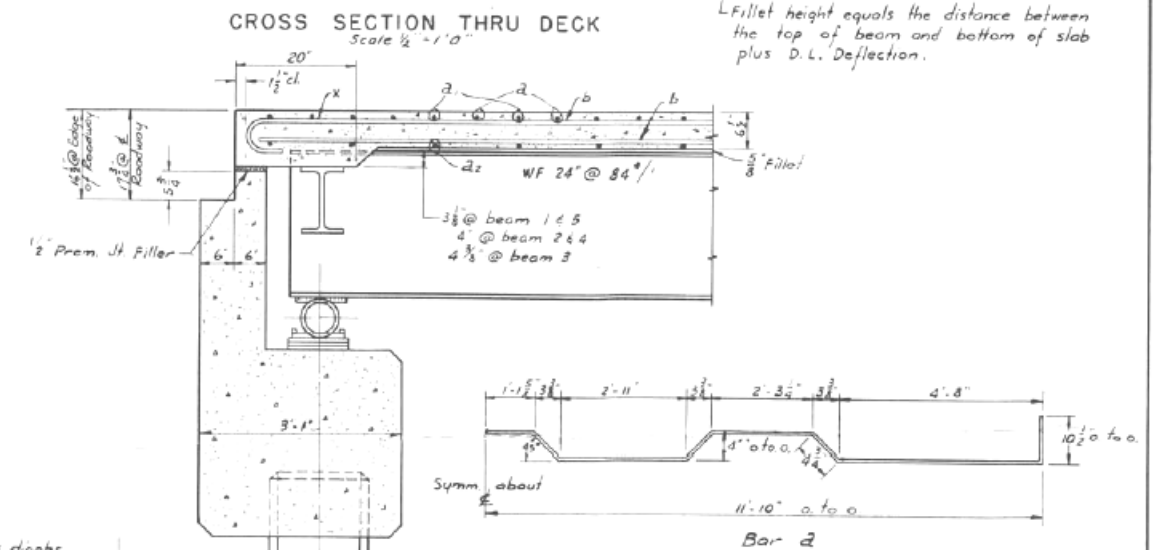
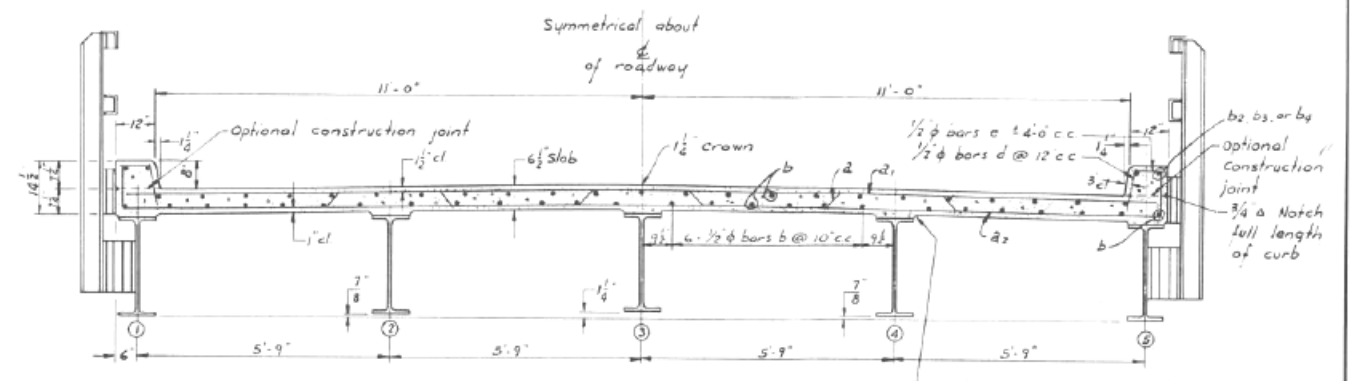
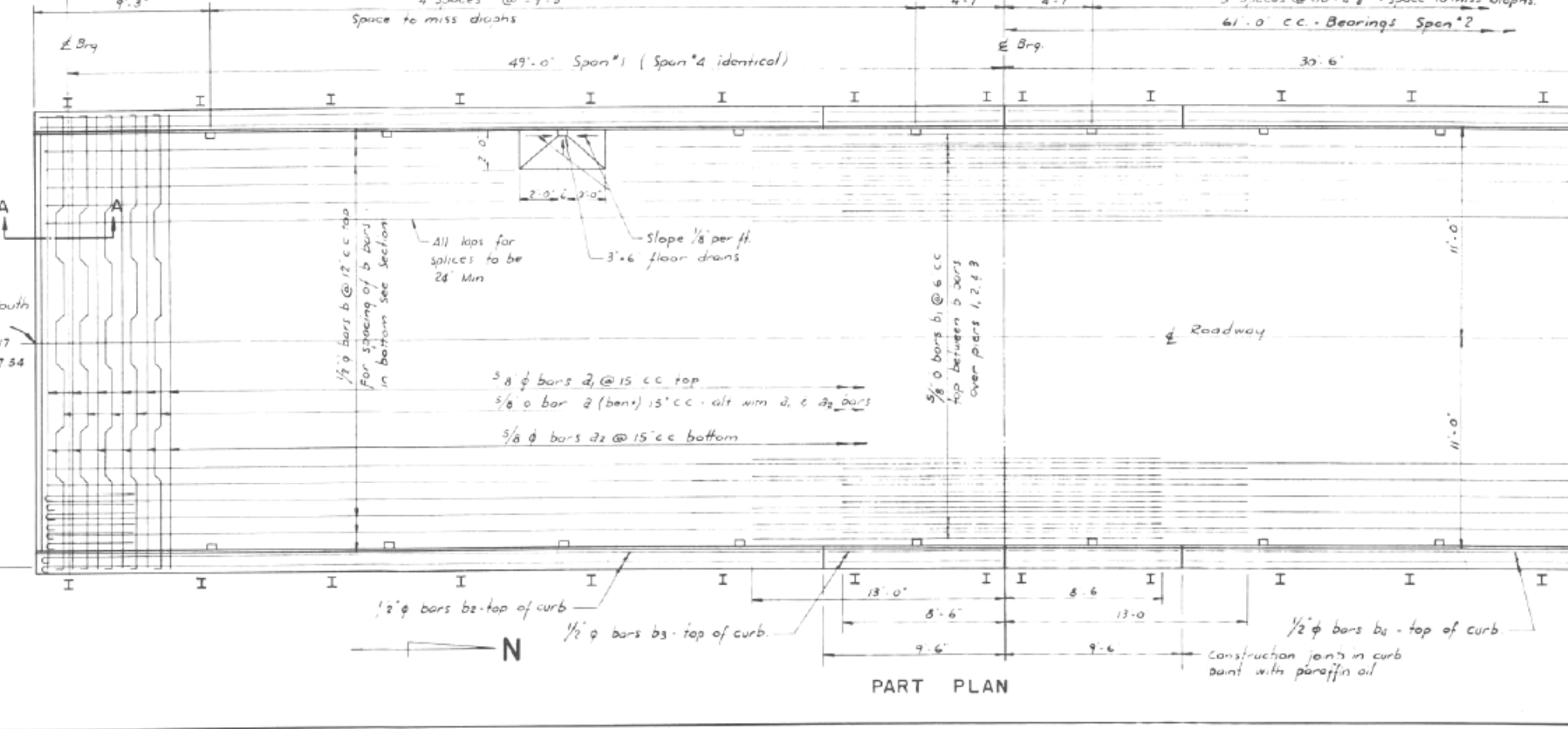
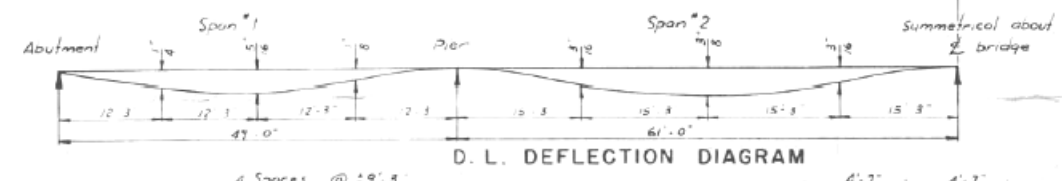
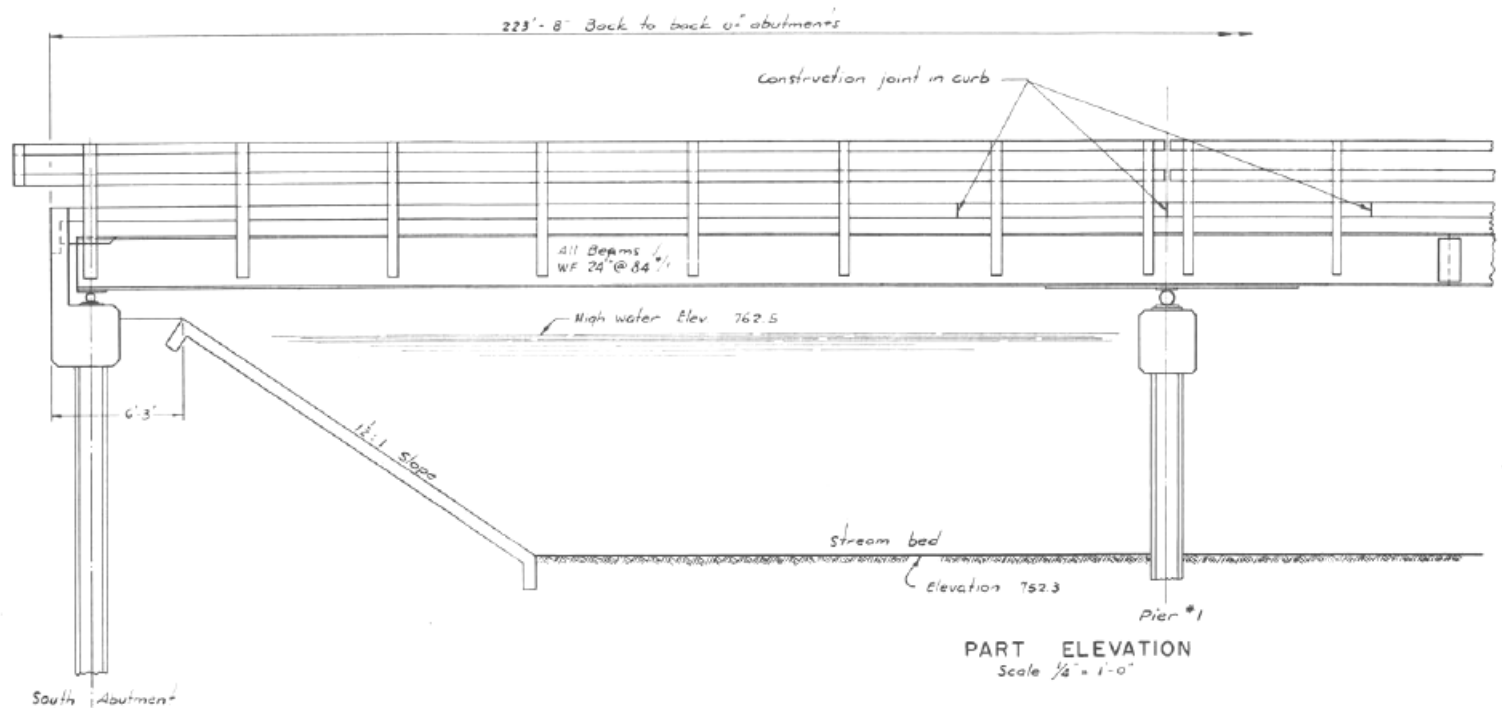
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
EXISTING BRIDGE RECORD DRAWINGS

| | | | | |
|---------------------------|------------------------|---------------|--------------------|--------------|
| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 68 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

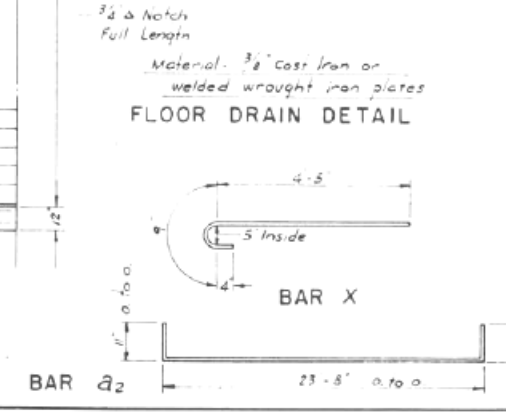
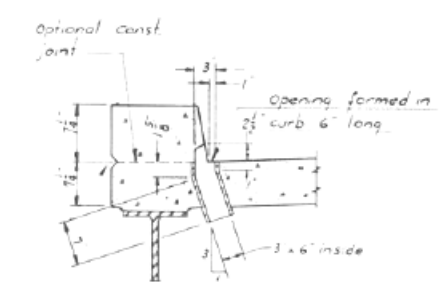
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BILL OF MATERIAL - SUPER

| BAR | NO. | SIZE | LENGTH | SHAPE |
|-----|-----|------|--------|-------|
| a | 178 | 5/8" | 26'-0" | U |
| a2 | 179 | 5/8" | 25'-6" | U |
| b | 441 | 1/2" | 26'-6" | U |
| b2 | 132 | 5/8" | 21'-6" | U |
| b3 | 16 | 1/2" | 21'-6" | U |
| b4 | 24 | 1/2" | 9'-3" | U |
| d | 14 | 1/2" | 21'-9" | U |
| e | 456 | 1/2" | 1'-0" | U |
| e | 114 | 1/2" | 0'-9" | U |
| x | 98 | 5/8" | 5'-6" | U |

| | | |
|-------------------------------|--------|---------|
| Class X Concrete | Cu Yds | 120.8 |
| Reinforcement Bars | Lbs | 26,280 |
| Structural Steel | Lbs | 154,380 |
| Floor Drains | Each | 44 |
| Name Plate | Each | one |
| Removal of Existing Structure | Each | one |



FRANKLIN TOWNSHIP BRIDGE
OVER
KISHWAUKEE RIVER (SOUTH BRANCH)
DEKALB COUNTY

MODEL: Default FILE: h:\p1\140114012\100758000\03\01 - Standard Sheets\13 Existing Bridge Ashl\13.10075-Bridge Record Draw.01

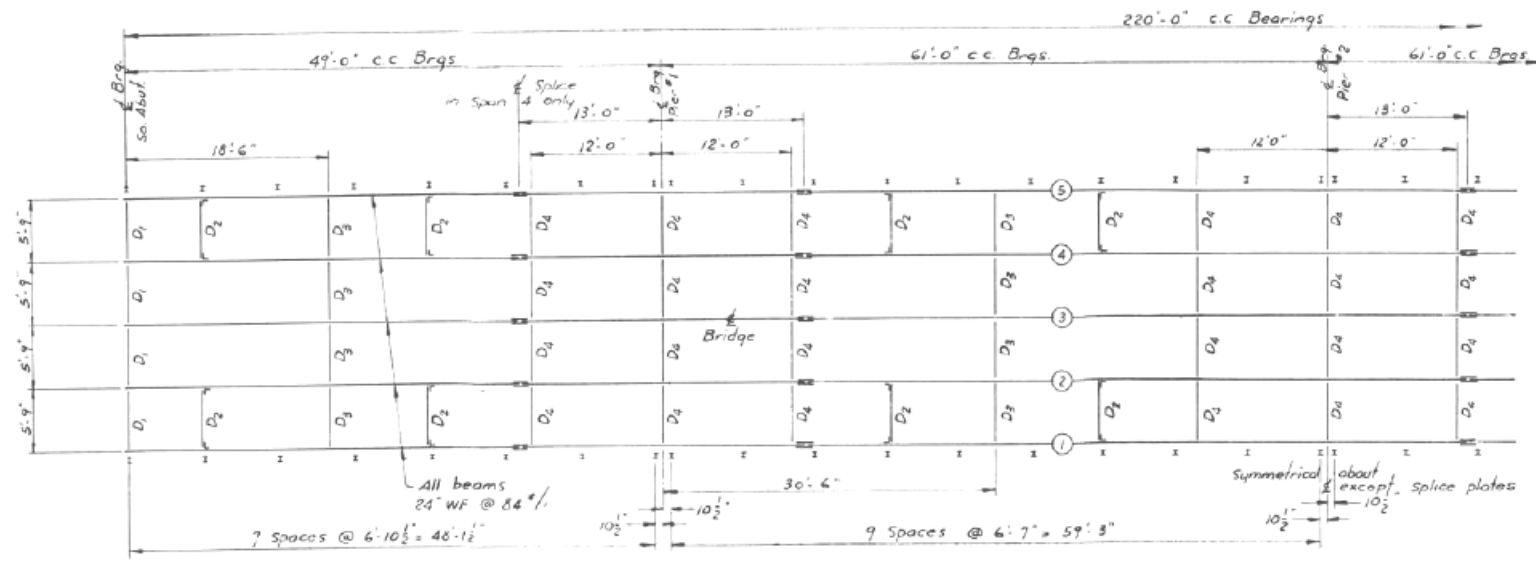
TRANSYSTEMS

| | | |
|---------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 2,000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

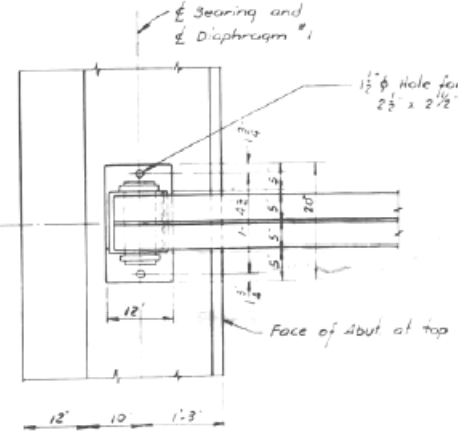
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
EXISTING BRIDGE RECORD DRAWINGS
SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

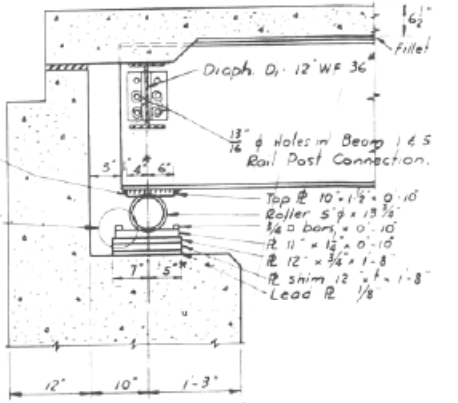
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|---------------------------|----------------|--------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 69 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



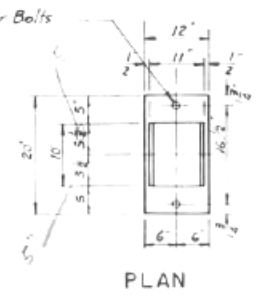
FRAMING PLAN
Scale 1/8" = 1'-0"



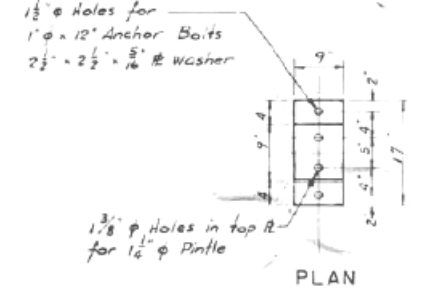
PLAN



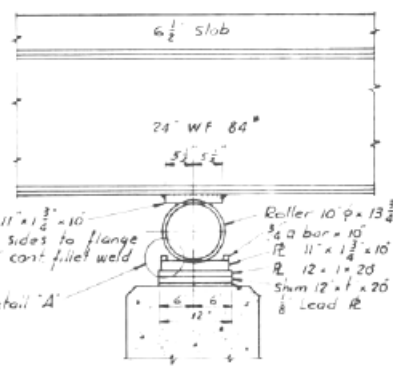
SECTION AT ABUTMENT
Scale 3/4" = 1'-0"



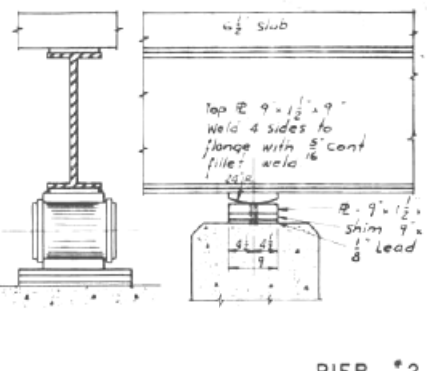
PLAN



PLAN

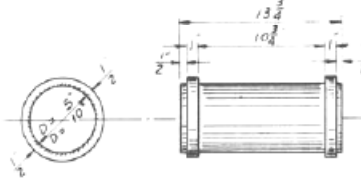


PIER #18*3

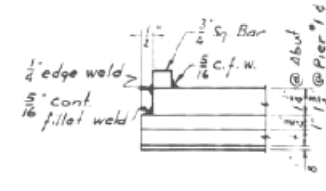


PIER #2

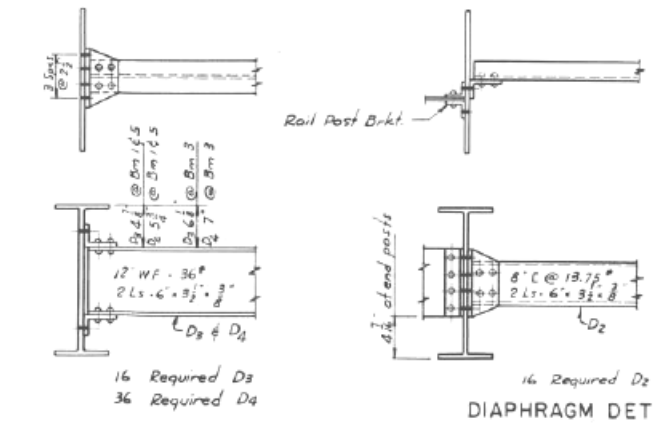
Note: Estimated weight of rollers, bearing plates, anchor bolts, and lead plates - 8,950 Lbs. - Included in item - "Structural Steel" of Bill of Material.



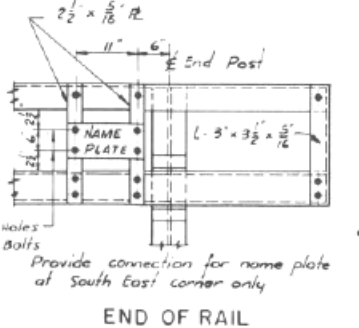
ROLLER DETAIL



DETAIL "A"



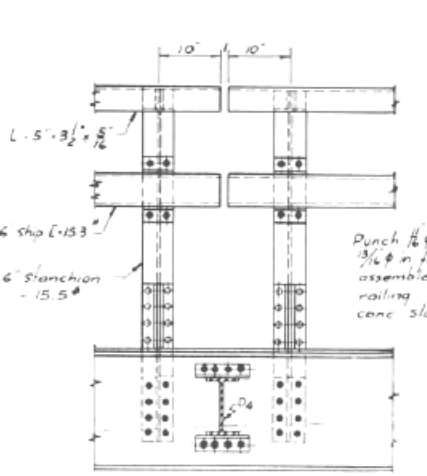
DIAPHRAGM DETAILS



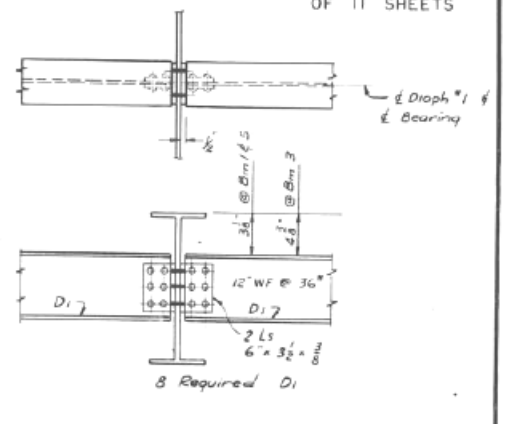
END OF RAIL



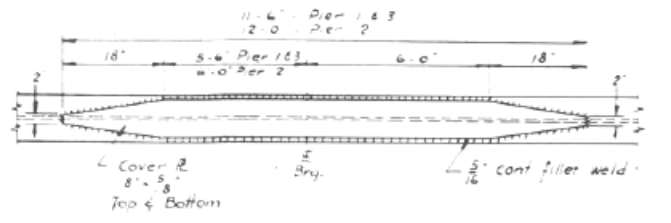
RAIL BEND



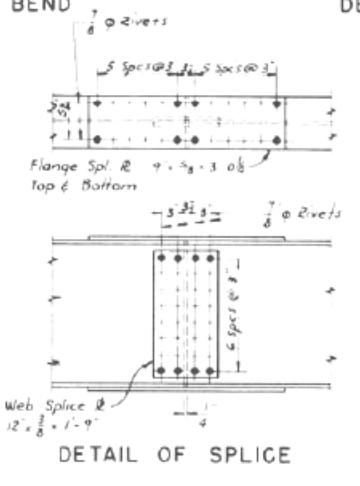
DETAIL OF RAIL



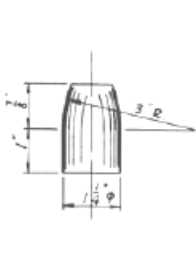
RAIL POST DETAIL



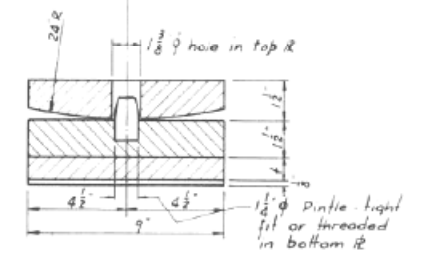
COVER PLATE DETAIL



DETAIL OF SPLICE



PINTLE DETAIL



PIER 2 BEARING DETAIL

TABLE OF DIMENSIONS

| Beam No | 1 | 2 | 3 | 4 | 5 |
|---------|------|--------|------|---|---|
| ABUTS | 7/8" | 1 1/4" | 7/8" | | |
| PIER #1 | 7/8" | 1 1/2" | 7/8" | | |
| PIER #2 | 7/8" | 1 1/2" | 7/8" | | |
| PIER #3 | 7/8" | 1 1/2" | 7/8" | | |

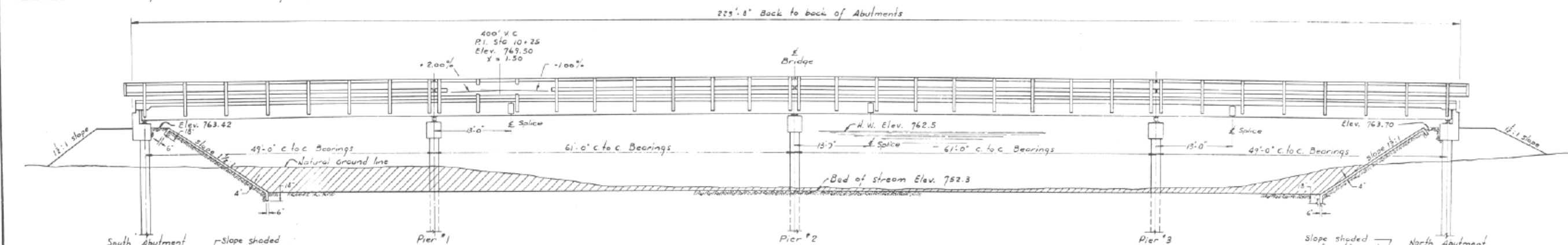
Note - Filler R's over 1" thick may be made up of thinner R's tack welded

FRANKLIN TOWNSHIP BRIDGE
OVER
KISHWAUKEE RIVER (SOUTH BRANCH)
DEKALB COUNTY

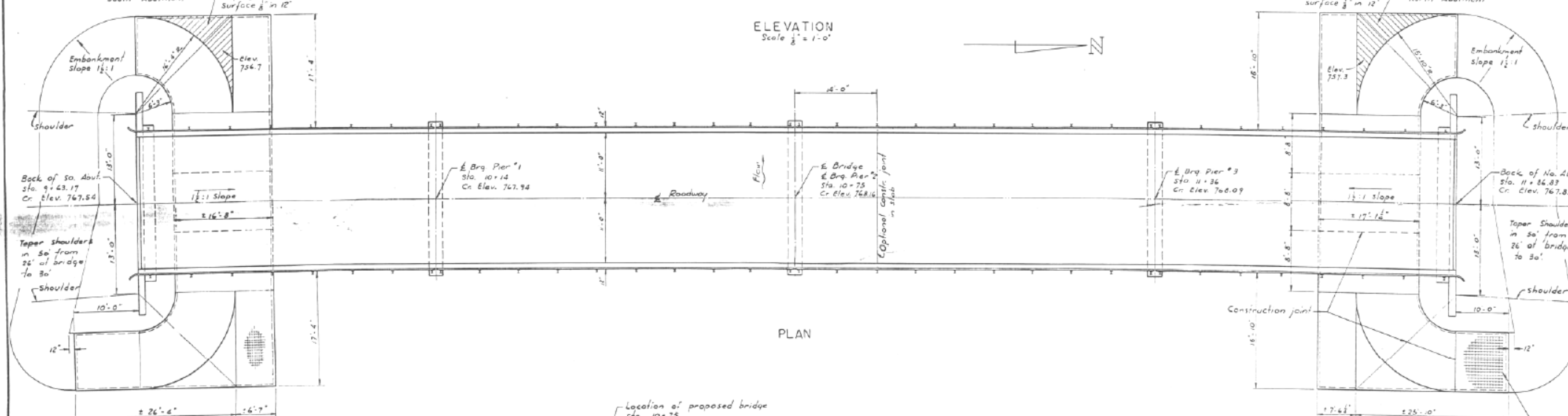
Existing Structure: 1-40' span steel approach truss
(to be removed)
by contractor
1-125' span steel main truss
3-32' steel beam approach spans,
masonry abutments and concrete filled piers

B.M.#1-Sp. & washer in
top of C&P Rt.
Sta. 2+80 - Elev. 760.55
Note: All elevations - U.S.G.S. datum

B.M.#2-Sp. & washer in
top of C&P Rt.
Sta. 4+16 - Elev. 763.51
B.M.#3-Sp. & washer in
top of C&P Rt.
Sta. 12+93 - Elev. 766.58

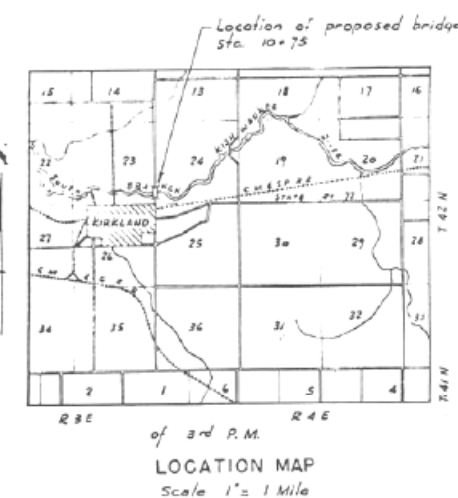


ELEVATION
Scale 1/8" = 1'-0"



PLAN

- GENERAL NOTES:**
- Class X concrete shall be used throughout.
 - Concrete floor slab shall be poured in one continuous operation between construction joints shown on plan and finished in accordance with Art. 3.10 of the Standard Specifications. No additional construction joints will be allowed without written permission of the Engineer.
 - Structural grade reinforcement bars will not be permitted.
 - The Contractor shall drive the concrete test piles as directed by the Engineer before furnishing the remainder of the piles.
 - All rollers, bearing plates, lead plates, parties, and anchor bolts shall be furnished, painted, and set in accordance with Art. 56.3 (d) of the Standard Specifications and are included for payment as Structural Steel.
 - Anchor bolts shall be set before riveting diaphragms over abutments or piers.
 - Floor drains shall receive one shop coat of red lead paint and 2 field coats of aluminum paint.
 - Structural steel shall be inspected by Illinois Division of Highways before painting.
 - All structural steel shall receive one shop coat of red lead paint after inspection and shall receive two field coats of aluminum paint.
 - All rivets shall be furnished and applied by the contractor.
 - All connections shall be riveted unless otherwise noted and all rivets shall be 3/4" and open holes 1 1/8" except as noted.
 - All splices for stringers shall have rivet holes punched 1/4" and reamed to required size with oil die and assembled in shop in their proper position with or without stringers in place. Leave assembled for inspection.
 - The Contractor shall place the amount around the abutments to the lines shown in accordance with Sec. 16 of my Standard Specifications before erecting the steel work.
 - The existing bridge and abutments shall be removed by the Contractor and disposed of outside of the right of way in a manner satisfactory to the Engineer. This work shall be paid for at the contract unit price dash for "Removal of Existing Structure."



TOTAL BILL OF MATERIAL

| ITEM | UNITS | SUPER | SUB | TOTAL |
|-------------------------------------|----------|---------|------|---------|
| CLASS X CONCRETE | CU. YDS. | 120.8 | 45.4 | 166.2 |
| REINFORCEMENT BARS | LBS. | 26,280 | 4070 | 30,350 |
| STRUCTURAL STEEL | LBS. | 154,380 | | 154,380 |
| FLOOR DRAINS | EACH | 44 | | 44 |
| PRECAST CONCRETE PILES (18) (32' L) | LIN. FT. | | 320 | 320 |
| PRECAST CONCRETE PILES (18) (40' L) | LIN. FT. | | 600 | 600 |
| PRECAST CONCRETE TEST PILES | EACH | 2 | | 2 |
| CONCRETE - SLOPE WALL | SQ. YDS. | | 267 | 267 |
| NAME PLATE | EACH | 1 | | 1 |
| REMOVAL OF EXISTING STRUCT. | EACH | 1 | | 1 |

Welded wire fabric "6"x6" wires - 6"x6" mesh reinforcement @ .83"/sq. ft. - all walls lap wire mesh 26" at constr. joints.

Stresses:
f_c = 18,000 psi Structural
f_s = 20,000 psi Reinforcement
f_s = 1,200 psi Superstructure
f_s = 800 psi Substructure
n = 10

Note: Structural grade reinforcing bars will not be used
H-15 Loading

**FRANKLIN TOWNSHIP BRIDGE
DE KALB COUNTY, ILLINOIS**

C. K. WILLETT
CONSULTING ENGINEERS
DIXON, ILLINOIS

Date: March 24, 1949
Reviewed: May 1, 1949
Sheet 7 of 11 sheets

MODEL: Default FILE: h:\p1\transys\corp\paw\1\Documents\Projects\2021\CH01\14012.10075\Record\Drawings\Standard_Sheets\13_Estimate_Bridge_Ash\113210075-Bridge_Record_Draw_01



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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 2,000' / 1 in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

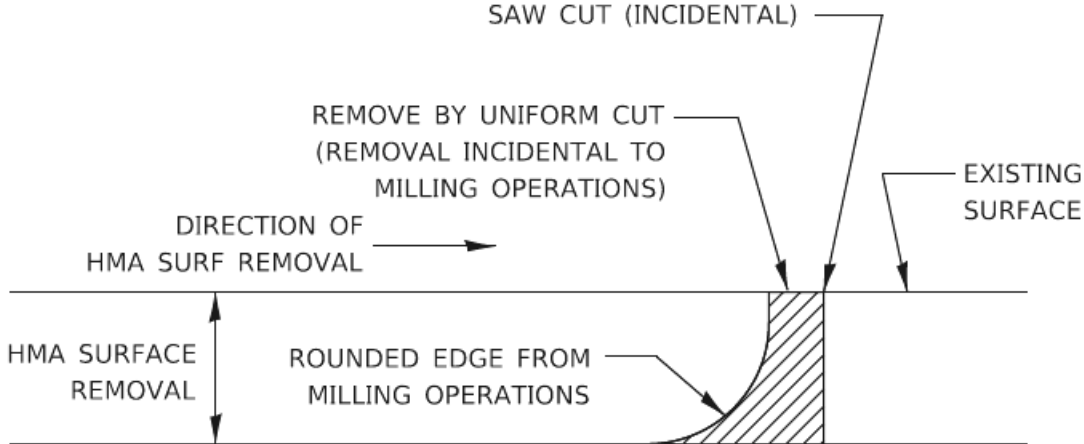
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
EXISTING BRIDGE RECORD DRAWINGS

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------------------|---------------|--------------------|--------------|
| MUN. RTE. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 73 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 87722 | |

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NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
 THEN A SAW CUT SHALL BE USED TO MANUFACTURE
 A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
 THE ENGINEER SHALL BE THE SOLE JUDGE
 CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

406-8



| | | |
|-----------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 2,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISED - |

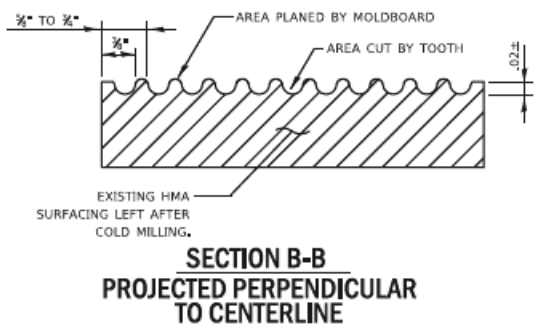
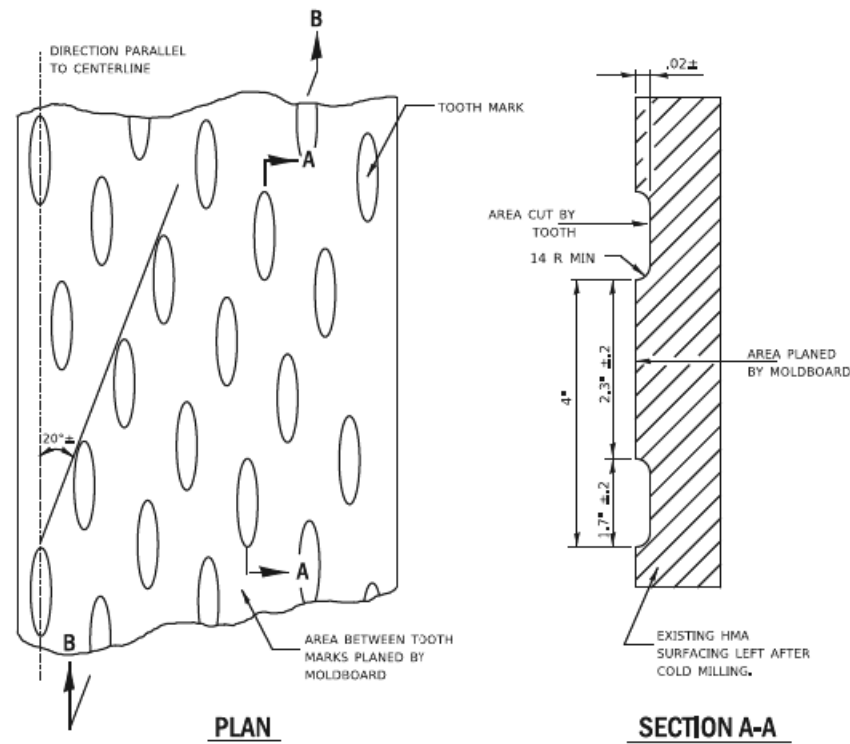
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
 DISTRICT THREE DETAILS**

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

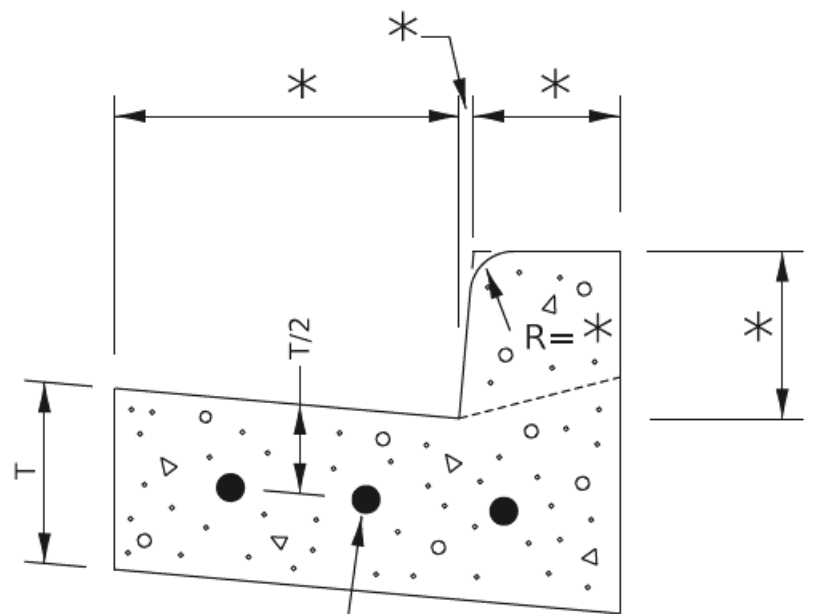
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|--------------------|----------------|------------------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 74 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

* VARIES - SEE STANDARD 606001



1. COLD MILLING SHALL CONSIST OF TWO PROCESSES: CUTTING WITH CARBIDE TEETH MOUNTED ON A ROTATING DRUM, AND PLANING WITH A MOLDBOARD MOUNTED IMMEDIATELY BEHIND THE CUTTING DRUM.
2. OTHER SIMILAR PATTERNS WILL BE ACCEPTABLE IF THEY CONSIST OF A SMOOTH, FLAT PLANED SURFACE INTERSPERSED WITH A PATTERN OF DISCONTINUOUS LONGITUDINAL STRIATIONS.

DESIGNER NOTE:
TO BE USED WITH RECURRING CHECK SHEET
HMA SURFACE CORRECTION



CONTINUOUSLY REINFORCED WITH 3 - #4 BARS EVENLY SPACED

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

REINFORCEMENT DETAIL FOR COMBINATION CONCRETE CURB AND GUTTER

606-4

440-2

REQUIRED COLD MILLED SURFACE TEXTURE



| | | |
|---------------------------|-----------------|-----------|
| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| PLOT SCALE = 2,000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISED - |
| | DATE = 4/4/2024 | REVISED - |

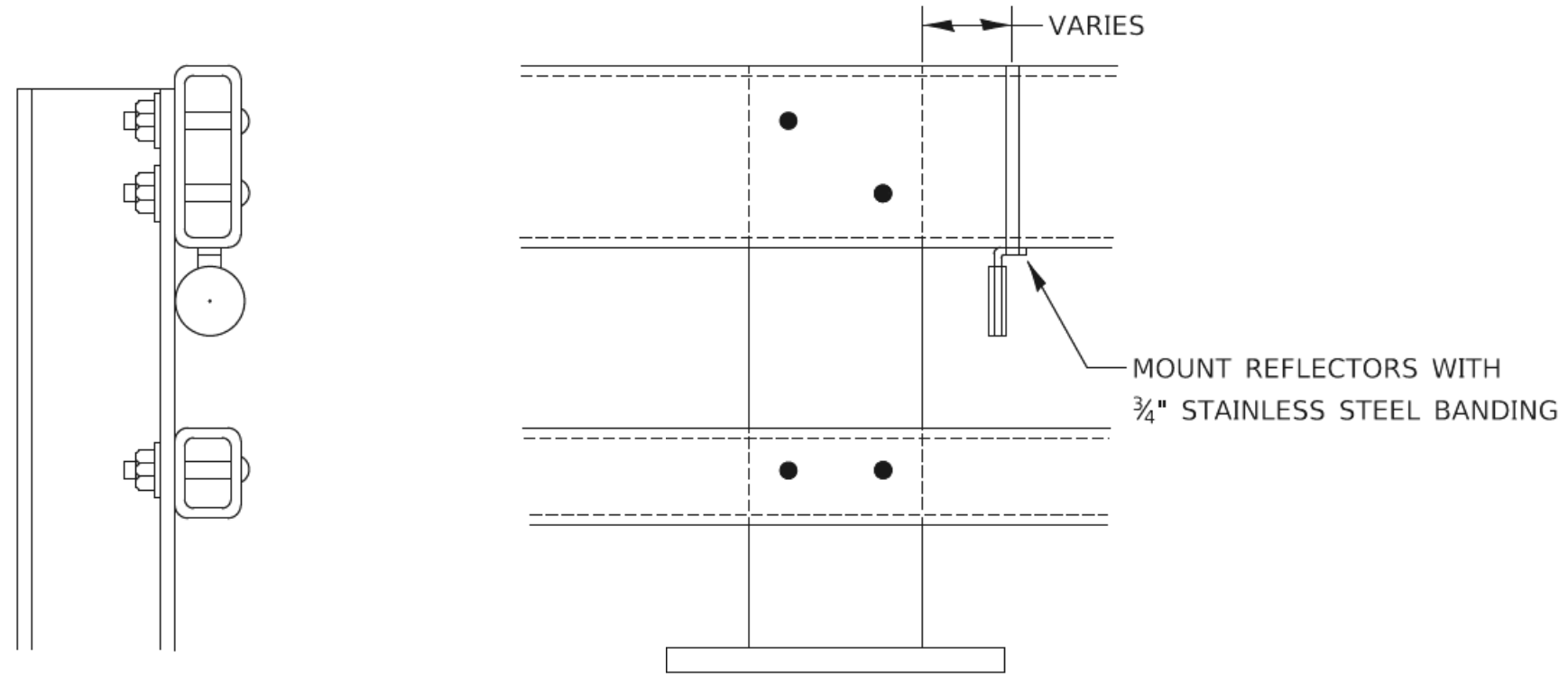
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
DISTRICT THREE DETAILS**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|---------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 75 |
| | | | CONTRACT NO. 87722 | |
| | | | ILLINOIS FED. AID PROJECT | |

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NOTES

1. REFLECTORS SHALL MEET THE REQUIREMENTS OF ARTICLE 1097.03 OF THE STANDARD SPECIFICATIONS.
2. FURNISHING AND INSTALLING THE COMPLETE REFLECTOR UNIT WILL BE PAID AT THE CONTRACT UNIT PRICE EACH FOR GUARD RAIL MARKERS.

**REFLECTOR MOUNTING
DETAIL FOR STEEL RAIL**

782-3

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TRANSYSTEMS

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| USER NAME = sbpottorff | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 2,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET BRIDGE OVER SOUTH BRANCH KISHWAUKEE RIVER
DISTRICT THREE DETAILS**

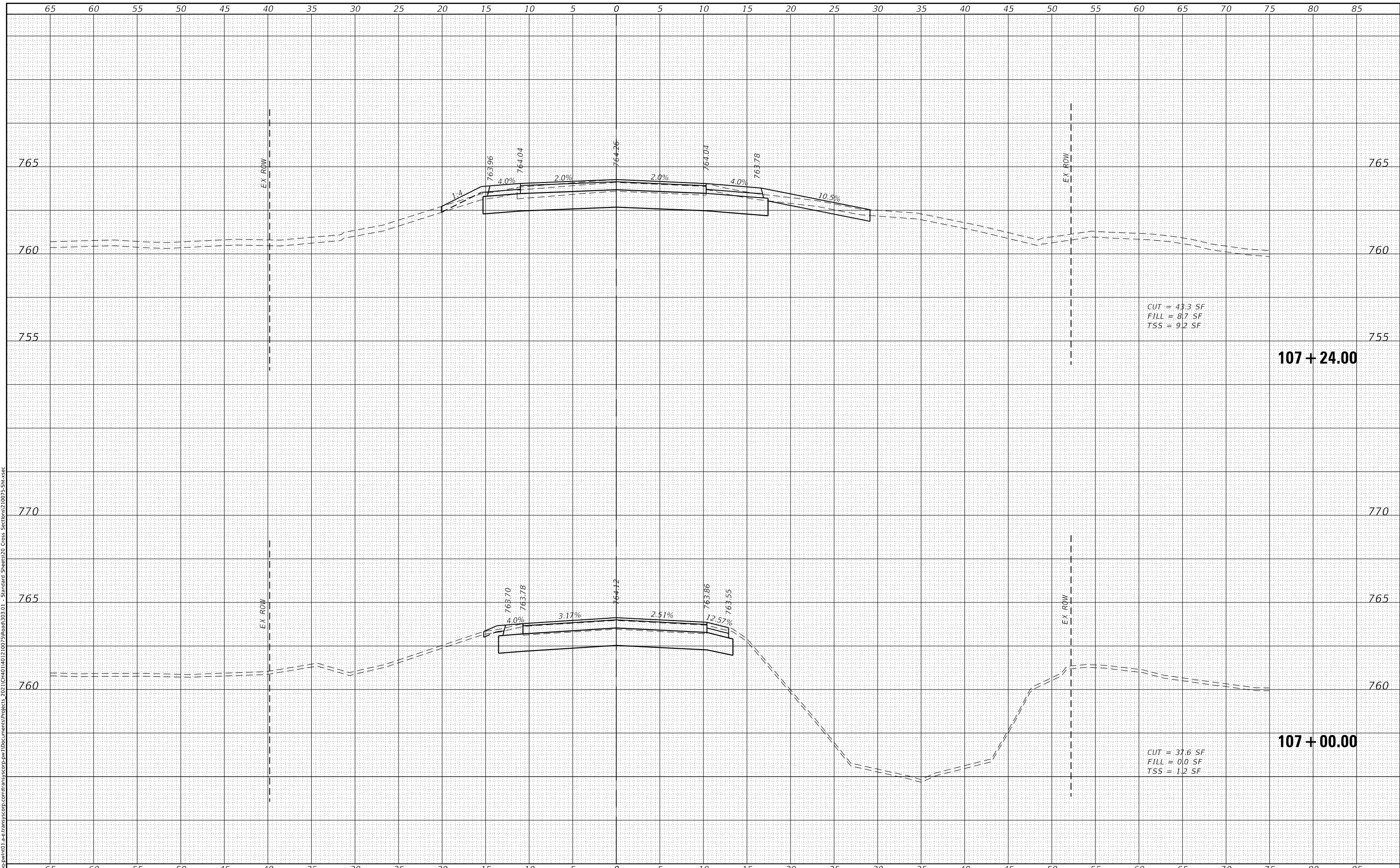
SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|----------|------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 76 |
| CONTRACT NO. 87722 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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CUT = 43.3 SF
 FILL = 8.7 SF
 TSS = 9.2 SF

CUT = 37.6 SF
 FILL = 0.0 SF
 TSS = 1.2 SF

107 + 24.00

107 + 00.00



| | | |
|-----------------------------|-----------------|----------|
| USER NAME = sbpottorff | DESIGNED - | REVISD - |
| | DRAWN - | REVISD - |
| PLOT SCALE = 10.0000' / in. | CHECKED - | REVISD - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISD - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 CROSS SECTIONS**

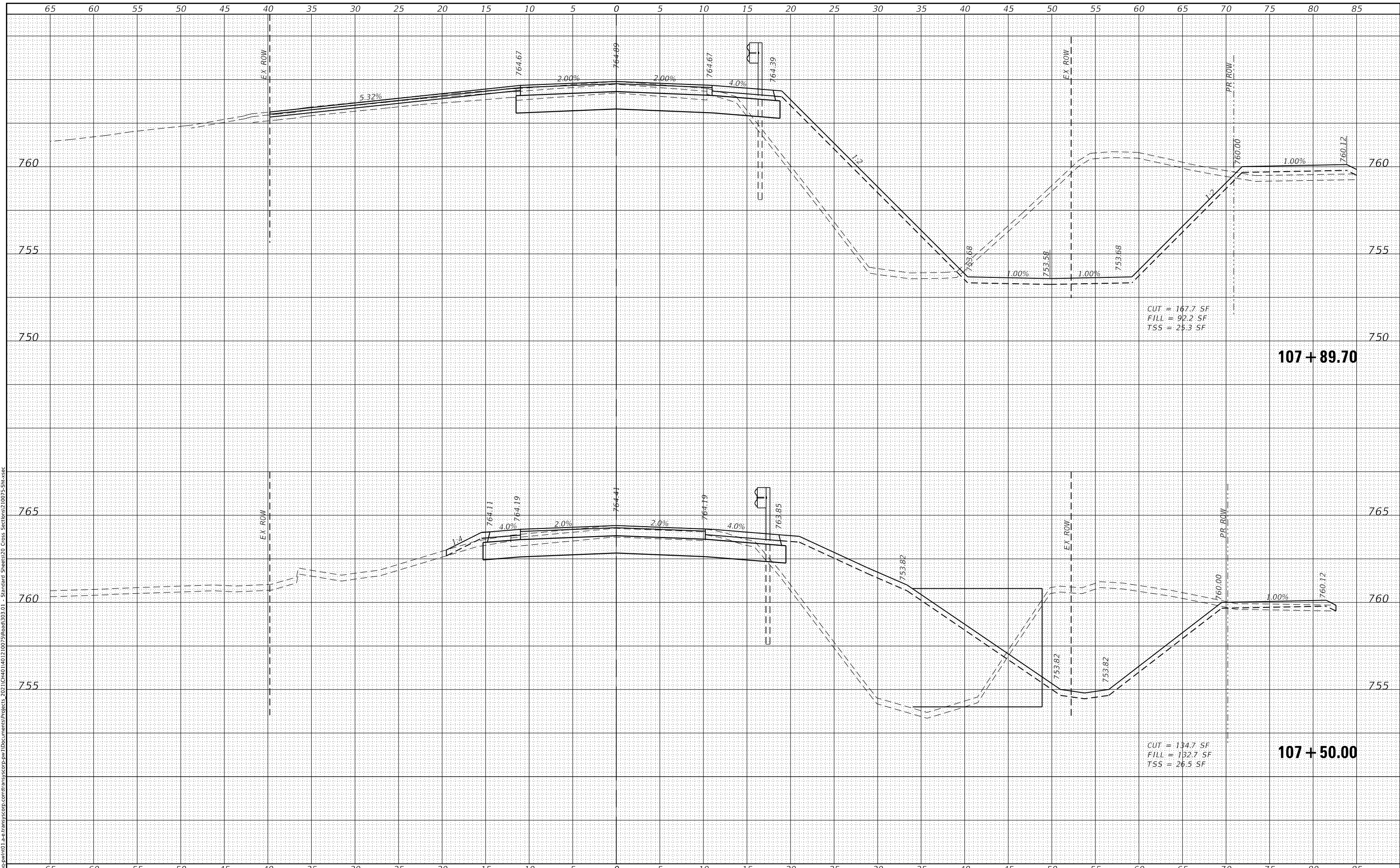
SCALE: H:5 V:2.5 SHEET 1 OF 9 SHEETS STA. 107+00.00 TO STA. 107+24.00

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|--------------------|----------------|------------------|--------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 77 |
| CONTRACT NO. 87722 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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CUT = 167.7 SF
 FILL = 92.2 SF
 TSS = 25.3 SF

CUT = 134.7 SF
 FILL = 132.7 SF
 TSS = 26.5 SF

107 + 89.70

107 + 50.00

TRANSYSTEMS

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|-----------------------------|-----------------|----------|
| USER NAME = sbpottorff | DESIGNED - | REVISD - |
| | DRAWN - | REVISD - |
| PLOT SCALE = 10.0000' / in. | CHECKED - | REVISD - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISD - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 CROSS SECTIONS**

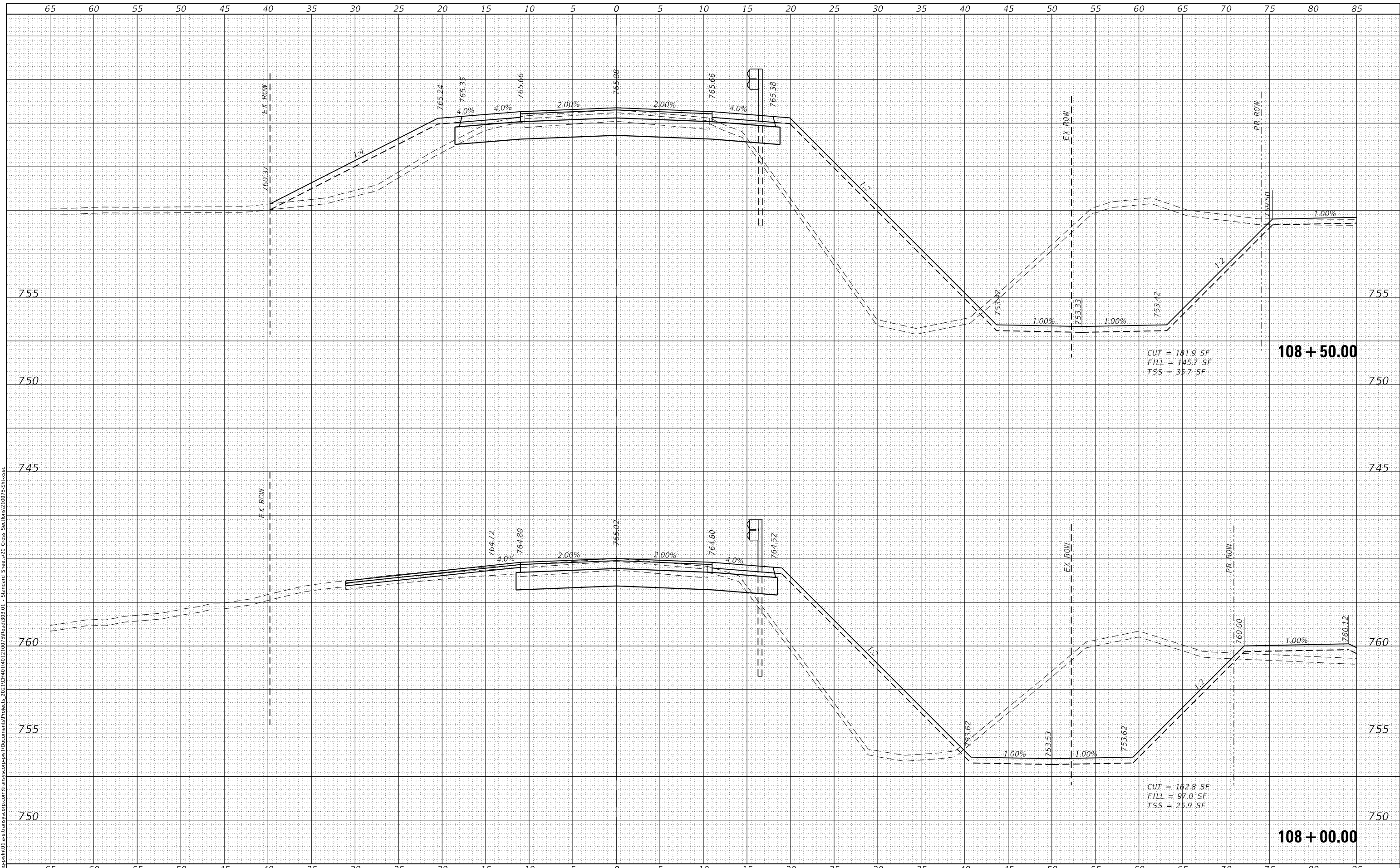
SCALE: H:5 V:2.5 SHEET 2 OF 9 SHEETS STA. 107+50.00 TO STA. 107+89.70

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|-----------|----------------|----------|--------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 78 |
| | | | CONTRACT NO. 87722 | |
| | | ILLINOIS | FED. AID PROJECT | |

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| FINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| NO. | TEMPLATE | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| NO. | TEMPLATE | |
| | AREAS CHECKED | |

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| USER NAME = sbpottorff | DESIGNED - | REVISD - |
| | DRAWN - | REVISD - |
| PLOT SCALE = 10.0000' / in. | CHECKED - | REVISD - |
| PLOT DATE = 4/4/2024 | DATE - 4/4/2024 | REVISD - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
CROSS SECTIONS**

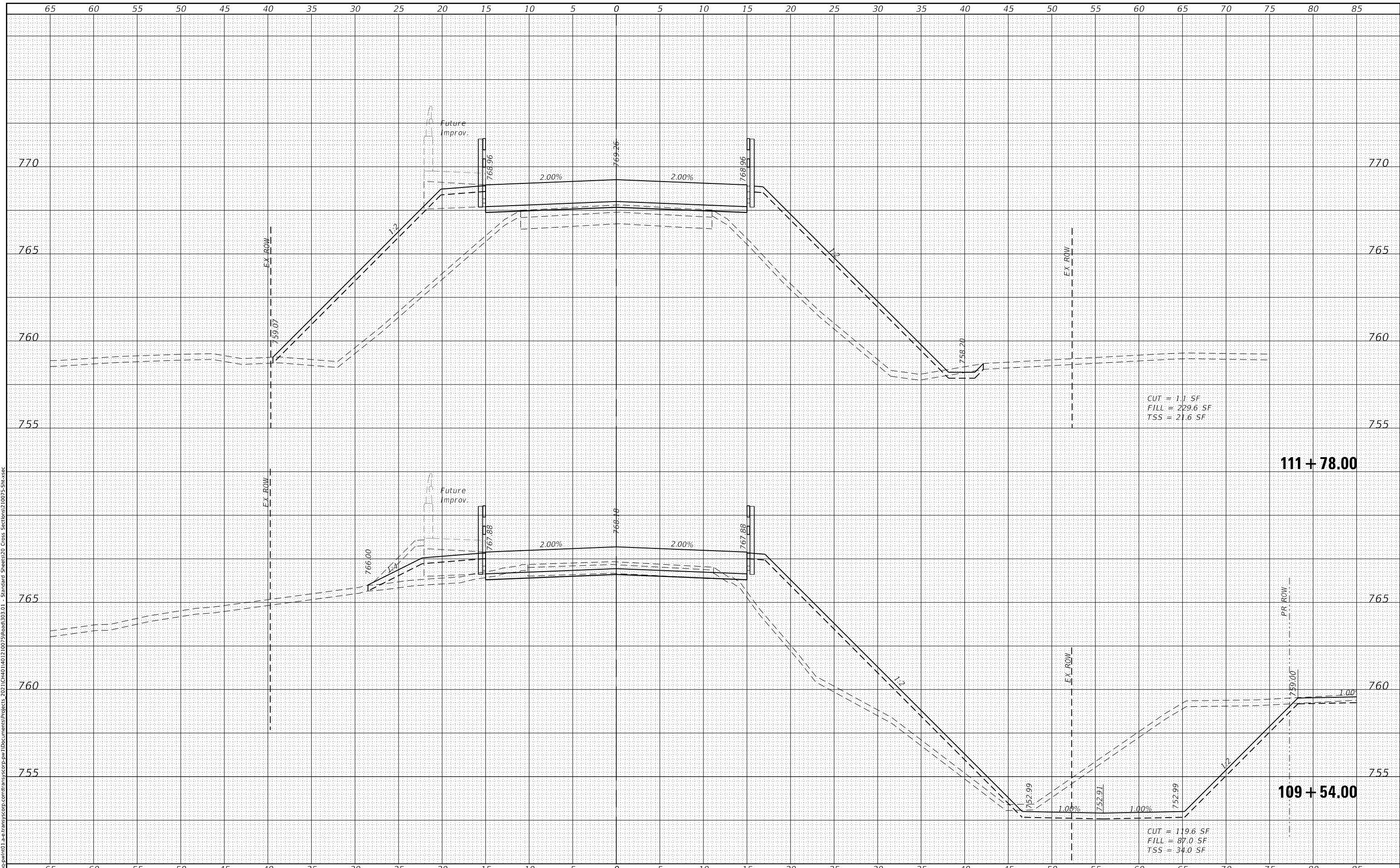
SCALE: H:5 V:2.5 SHEET 3 OF 9 SHEETS STA. 108+00.00 TO STA. 108+50.00

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|--------------------|------------------------|---------------|---------------------------|--------------|
| CONTRACT NO. 6090 | SECTION 14-00009-00-BR | COUNTY DEKALB | TOTAL SHEETS 85 | SHEET NO. 79 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |

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| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |
| FINAL SURVEY | |
| NOTE BOOK | |
| NO. | |

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| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |
| ORIGINAL SURVEY | |
| NOTE BOOK | |
| NO. | |

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TRANSYSTEMS

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|-----------------------------|-----------------|----------|
| USER NAME = bmsetzke | DESIGNED - | REVISD - |
| | DRAWN - | REVISD - |
| PLOT SCALE = 10.0000' / in. | CHECKED - | REVISD - |
| PLOT DATE = 4/30/2024 | DATE - 5/1/2024 | REVISD - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 CROSS SECTIONS**

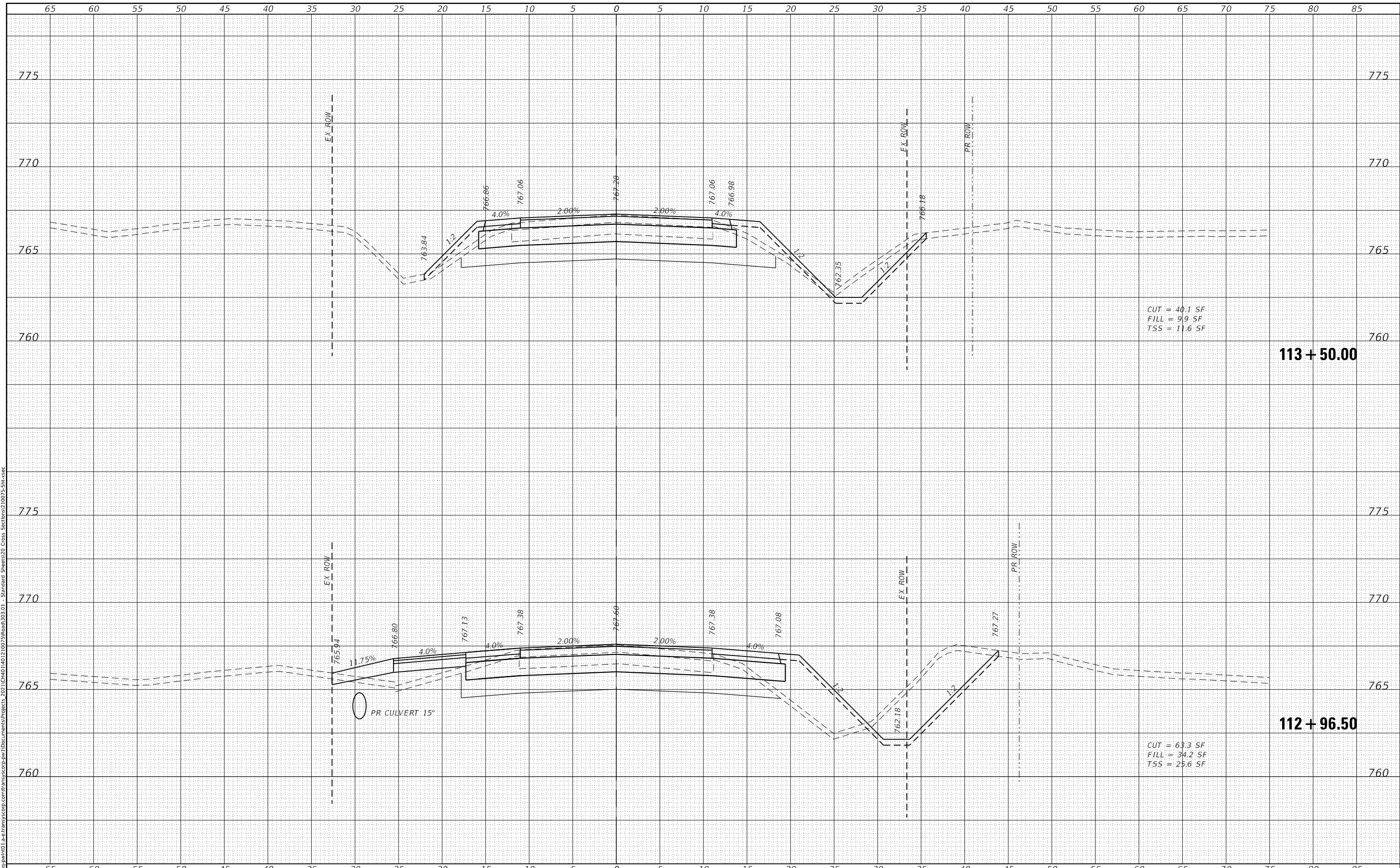
SCALE: H:5 V:2.5 SHEET 5 OF 9 SHEETS STA. 109+54.00 TO STA. 111+78.00

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 81 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |

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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

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CUT = 40.1 SF
 FILL = 9.9 SF
 TSS = 11.6 SF

CUT = 63.3 SF
 FILL = 34.2 SF
 TSS = 25.6 SF

113 + 50.00

112 + 96.50



| | | |
|-----------------------------|-----------------|----------|
| USER NAME = bmsetzke | DESIGNED - | REVISD - |
| | DRAWN - | REVISD - |
| PLOT SCALE = 10.0000' / in. | CHECKED - | REVISD - |
| PLOT DATE = 4/30/2024 | DATE - 5/1/2024 | REVISD - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 CROSS SECTIONS**

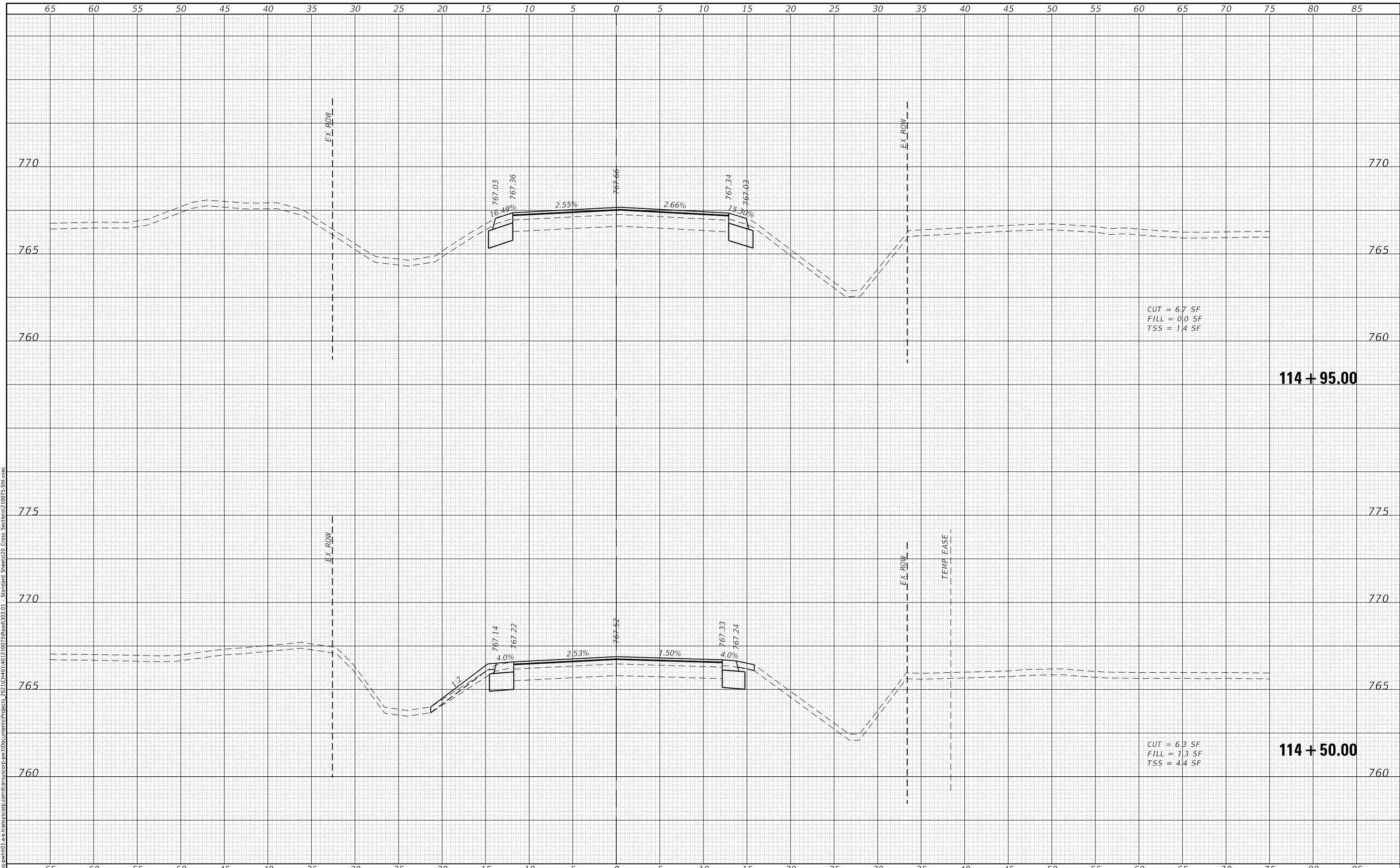
SCALE: H:5 V:2.5 SHEET 7 OF 9 SHEETS STA. 112+96.50 TO STA. 113+50.00

| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 6090 | 14-00009-00-BR | DEKALB | 85 | 83 |
| CONTRACT NO. 87722 | | | ILLINOIS FED. AID PROJECT | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED |
| BY | DATE |
| NO. | NO. |

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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED |
| BY | DATE |
| NO. | NO. |

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 FILE NAME: D:\working\p1011a-e-transyscorp.com\transyscorp\Documents\Projects\2021\CH01\4012\0075\Road\305.01 - Standard Sheets\20 Cross Sections\2.0075-Site-east



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|-----------------------------|-----------------|----------|
| USER NAME = sbpottorff | DESIGNED - | REVISD - |
| PLOT SCALE = 10.0000' / in. | DRAWN - | REVISD - |
| PLOT DATE = 4/4/2024 | CHECKED - | REVISD - |
| | DATE - 4/4/2024 | REVISD - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEARL STREET OVER SOUTH BRANCH KISHWAUKEE RIVER
 CROSS SECTIONS**

| | | | | |
|-----------|----------------|--------|---------------------------|-----------|
| MUN. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 6090 | 14-00009-00-BR | DEKALB | 85 | 85 |
| | | | CONTRACT NO. 87722 | |
| | | | ILLINOIS FED. AID PROJECT | |

SCALE: H:5 V:2.5 SHEET 9 OF 9 SHEETS STA. 114+50.00 TO STA. 114+95.00