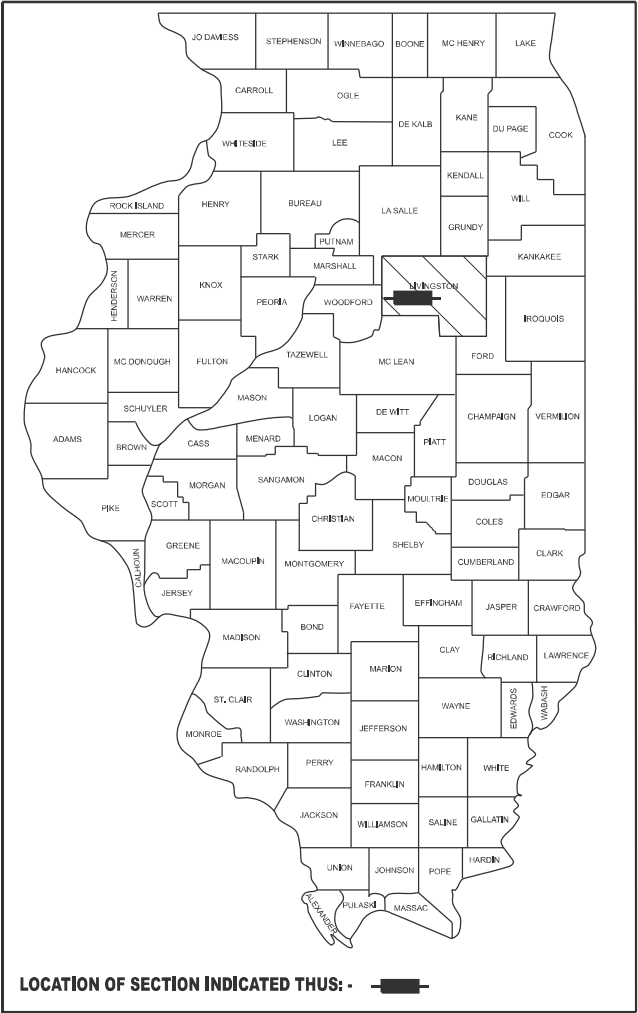


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| F.A.P.<br>RTE. | SECTION   | COUNTY     | TOTAL<br>SHEETS    | SHEET<br>NO. |
|----------------|-----------|------------|--------------------|--------------|
| 673            | (112BR)BR | LIVINGSTON | 65                 | 1            |
|                |           | ILLINOIS   | CONTRACT NO. 66L79 |              |

P-93-006-21  
D-93-037-24



FUNCTIONAL CLASSIFICATION  
MINOR ARTERIAL  
2023 ADT = 3050  
P.V. = 89.2% S.U. = 4.6% M.U. = 6.2%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 21, 2024

*Trisha Thompson* REGIONAL ENGINEER

October 4, 2024 *See E.A. Elk* ENGINEER OF DESIGN AND ENVIRONMENT

October 4, 2024 *Gemma J. Gu* DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

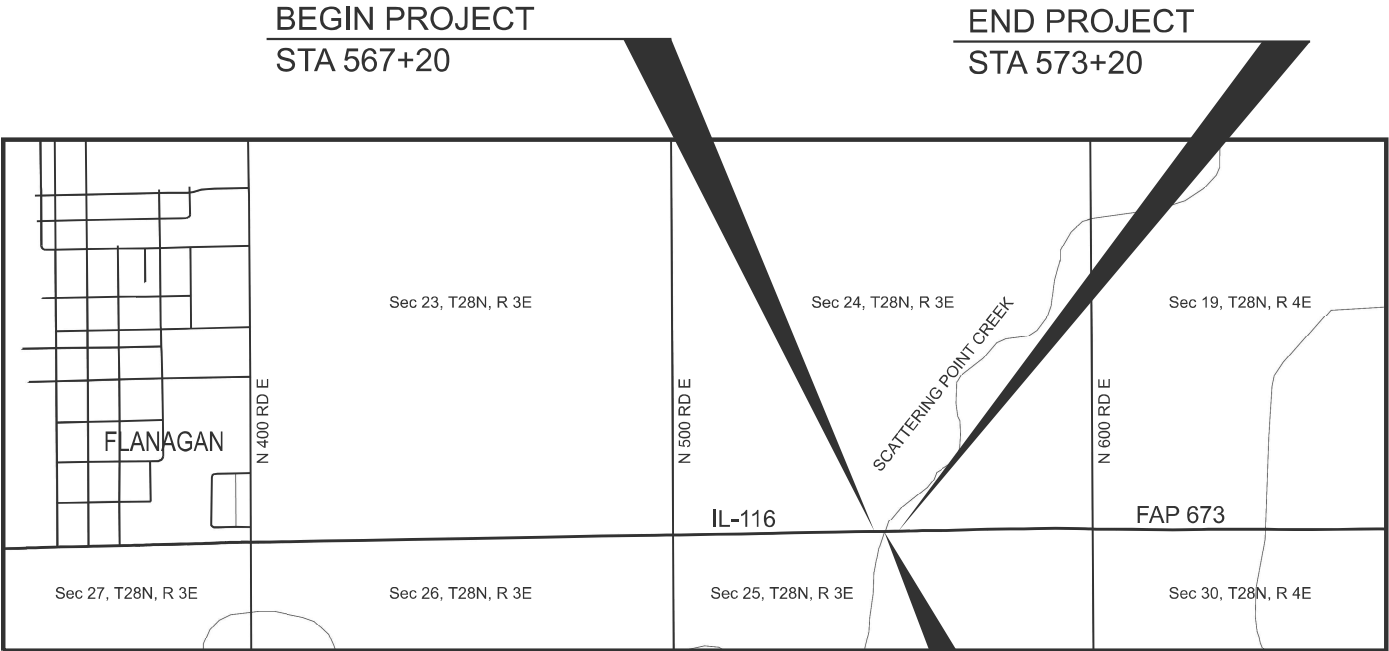
INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, HWY STANDARDS & HMA MIX TABLE
- 3 - 9 SUMMARY OF QUANTITIES
- 10 - 11 TYPICAL SECTIONS
- 12 - 15 SCHEDULES
- 16 - 18 TIES AND BENCHMARKS
- 19 PLAN AND PROFILE
- 20 PRE-STAGE SHOULDERS
- 21 - 22 TRAFFIC CONTROL & PROTECTION
- 23 - 51 STRUCTURE PLANS
- 52 - 56 EXISTING STRUCTURE PLANS
- 57 GUARDRAIL DETAIL
- 58 - 61 DETAILS
- 62 - 65 CROSS SECTIONS

PROPOSED  
HIGHWAY PLANS

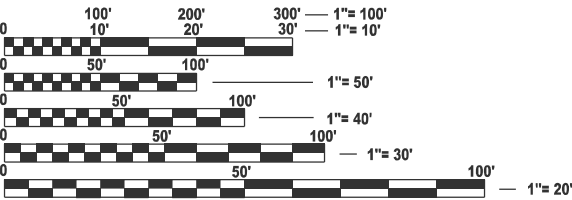
FAP ROUTE 673 ( IL 116 )  
SECTION (112BR)BR  
PROJECT BFP-7NW6(945)  
BRIDGE REPLACEMENT  
LIVINGSTON COUNTY

C-93-073-24



BRIDGE REPLACEMENT  
STA 569+68  
EXIST 053-0062  
PROP 053-0194

GROSS LENGTH = 600.00 FT. = 0.113 MILE  
NET LENGTH = 600.00 FT. = 0.113 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 EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: JOE KANNEL, P.E.  
UNIT CHIEF: STEPHENIE CARMIN  
TOWNSHIP(S): NEBRASKA  
CONTRACT NO. 66L79

GENERAL NOTES

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.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES ( 100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

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              |
| BINDER (HAND METHOD)         | 0.0005 | TONS / SQ YD              |

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

AMEREN ELECTRIC

FRONTIER COMMUNICATIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                               |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT                                           |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS                                          |
| 420406    | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB                          |
| 515001-04 | NAME PLATE FOR BRIDGES                                                     |
| 542401-04 | METAL FLARED END SECTION FOR PIPE CULVERTS                                 |
| 601101-02 | CONCRETE HEADWALL FOR PIPE UNDERDRAINS                                     |
| 630001-13 | STEEL PLATE BEAM GUARDRAIL                                                 |
| 630201-07 | PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL                        |
| 631061-01 | TRAFFIC BARRIER TERMINAL, TYPE 13                                          |
| 642006-01 | SHOULDER RUMBLE STRIPS, 8 INCH                                             |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' AWAY                             |
| 701006-05 | OFF-ROAD OPERATIONS 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE                  |
| 701011-04 | OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY                                |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH                        |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                |
| 701306-04 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY                         |
| 701321-18 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER                           |
| 701326-04 | LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH               |
| 701901-09 | TRAFFIC CONTROL DEVICES                                                    |
| 704001-08 | TEMPORARY CONCRETE BARRIER                                                 |
| 725001-01 | OBJECT AND TERMINAL MARKERS                                                |
| 781001-04 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS                    |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                      |

COMMITMENTS

EXISTING WEIGHT LIMIT SIGNS TO BE RETURNED TO IDOT

HMA MIXTURE REQUIREMENT TABLE

| LOCATIONS:                               | ENTIRE PROJECT | ENTIRE PROJECT | ENTIRE PROJECT                          | ENTIRE PROJECT               | ENTIRE PROJECT                     | ENTIRE PROJECT                  |
|------------------------------------------|----------------|----------------|-----------------------------------------|------------------------------|------------------------------------|---------------------------------|
| MIXTURE USE(S):                          | HMA SURFACE    | HMA BINDER     | HMA SHOULDER BOTTOM LIFTS (4" AND 2.5") | HMA SHOULDER TOP LIFT (1.5") | HMA STABILIZATION BOTTOM LIFT (4") | HMA STABILIZATION TOP LIFT (2") |
| BINDER GRADE (PG):                       | PG 64-22       | PG 64-22       | 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                   | 4.0% @ N50                         | 4.0% @ N50                      |
| MIXTURE COMPOSITION: (MIXTURE GRADATION) | IL 9.5         | IL 19.0        | IL 19.0                                 | IL 9.5                       | IL 19.0                            | IL 9.5                          |
| FRICTION AGGREGATE:                      | MIXTURE D      |                |                                         |                              |                                    |                                 |
| MIXTURE WEIGHT:                          | 112.0 LB/SY/IN | 112.0 LB/SY/IN | 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                         | QCQA                               | QCQA                            |
| SUBLOT SIZE:                             | N/A            | N/A            | N/A                                     | N/A                          | N/A                                | N/A                             |
| DENSITY TEST METHOD:                     | CORES/NUCLEAR  | CORES/NUCLEAR  | CORES/NUCLEAR                           | CORES/NUCLEAR                | SATISFACTION OF ENGINEER           | SATISFACTION OF ENGINEER        |
| MATERIAL TRANSFER DEVICE (REQUIRED):     | NO             | NO             | NO                                      | NO                           | NO                                 | NO                              |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION:

INSPECTORS:

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\dottzagar\k1008618\66L79-CO/EE.dgn

|  |                          |            |           |                                                   |                                                     |       |    |                    |           |            |                             |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------------------------------------|-------|----|--------------------|-----------|------------|-----------------------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | HIGHWAY STANDARDS, GENERAL NOTES<br>AND COMMITMENTS |       |    | F.A.P<br>RTE.      | SECTION   | COUNTY     | TOTAL<br>SHEETS             | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |                                                     |       |    | 673                | (112BR)BR | LIVINGSTON | 65                          | 2            |
|  |                          | CHECKED -  | REVISED - |                                                   |                                                     |       |    | CONTRACT NO. 66L79 |           |            |                             |              |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                                              | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS   FED. AID PROJECT |              |



MODEL: Default  
FILE NAME: c:\pw\work\pwid\zagar\kdt1008618\86L79-SOO.dgn

| CODE NO. | ITEM                              | UNIT  | TOTAL QUANTITY | CONSTR. CODE         |
|----------|-----------------------------------|-------|----------------|----------------------|
|          |                                   |       |                | 80% FED<br>20% STATE |
|          |                                   |       |                | BRIDGE               |
|          |                                   |       |                | 0010                 |
|          |                                   |       |                | S.N. 053-0194        |
|          |                                   |       |                |                      |
| 20200100 | EARTH EXCAVATION                  | CU YD | 260            | 260                  |
|          |                                   |       |                |                      |
| 20300100 | CHANNEL EXCAVATION                | CU YD | 543            | 543                  |
|          |                                   |       |                |                      |
| 20400800 | FURNISHED EXCAVATION              | CU YD | 60             | 60                   |
|          |                                   |       |                |                      |
| 21400100 | GRADING AND SHAPING DITCHES       | FOOT  | 786            | 786                  |
|          |                                   |       |                |                      |
| 25000210 | SEEDING, CLASS 2A                 | ACRE  | 0.5            | 0.5                  |
|          |                                   |       |                |                      |
| 25000400 | NITROGEN FERTILIZER NUTRIENT      | POUND | 33             | 33                   |
|          |                                   |       |                |                      |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT    | POUND | 33             | 33                   |
|          |                                   |       |                |                      |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT     | POUND | 33             | 33                   |
|          |                                   |       |                |                      |
| 25100630 | EROSION CONTROL BLANKET           | SQ YD | 1724           | 1724                 |
|          |                                   |       |                |                      |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 73             | 73                   |
|          |                                   |       |                |                      |
| 28000305 | TEMPORARY DITCH CHECKS            | FOOT  | 144            | 144                  |
|          |                                   |       |                |                      |
| 28000400 | PERIMETER EROSION BARRIER         | FOOT  | 985            | 985                  |
|          |                                   |       |                |                      |
| 28000500 | INLET AND PIPE PROTECTION         | EACH  | 2              | 2                    |
|          |                                   |       |                |                      |
| 28001100 | TEMPORARY EROSION CONTROL BLANKET | SQ YD | 3448           | 3448                 |
|          |                                   |       |                |                      |

\*SPECIALITY ITEM

|  |                          |            |           |                                                   |                       |       |    |        |                    |           |                           |                 |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------|--------------------|-----------|---------------------------|-----------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    |        | F.A.P.<br>RTE.     | SECTION   | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |                       |       |    |        | 673                | (112BR)ES | LIVINGSTON                | 65              | 3            |
|  |                          | CHECKED -  | REVISED - |                                                   |                       |       |    |        | CONTRACT NO. 66L79 |           |                           |                 |              |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS | STA.               | TO STA.   | ILLINOIS FED. AID PROJECT |                 |              |

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\zagar\k1008618\66L79-SOO.dgn

| CODE NO. | ITEM                                                 | UNIT  | TOTAL QUANTITY | CONSTR. CODE          |
|----------|------------------------------------------------------|-------|----------------|-----------------------|
|          |                                                      |       |                | 80% FED<br>20% STATE  |
|          |                                                      |       |                | BRIDGE                |
|          |                                                      |       |                | 0010<br>S.N. 053-0194 |
|          |                                                      |       |                |                       |
| 28100107 | STONE RIPRAP, CLASS A4                               | SQ YD | 917            | 917                   |
|          |                                                      |       |                |                       |
| 28200200 | FILTER FABRIC                                        | SQ YD | 917            | 917                   |
|          |                                                      |       |                |                       |
| 31101810 | SUBBASE GRANULAR MATERIAL, TYPE B 12"                | SQ YD | 132            | 132                   |
|          |                                                      |       |                |                       |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT)                     | POUND | 752            | 752                   |
|          |                                                      |       |                |                       |
| 40600370 | LONGITUDINAL JOINT SEALANT                           | FOOT  | 452            | 452                   |
|          |                                                      |       |                |                       |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS           | TON   | 1              | 1                     |
|          |                                                      |       |                |                       |
| 40600900 | HOT-MIX ASPHALT BINDER COURSE (HAND METHOD), N50     | TON   | 1              | 1                     |
|          |                                                      |       |                |                       |
| 40600990 | TEMPORARY RAMP                                       | SQ YD | 137            | 137                   |
|          |                                                      |       |                |                       |
| 40603080 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50          | TON   | 200            | 200                   |
|          |                                                      |       |                |                       |
| 40604060 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 | TON   | 103            | 103                   |
|          |                                                      |       |                |                       |
| 42000070 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB    | SQ YD | 132            | 132                   |
|          |                                                      |       |                |                       |
| 44000100 | PAVEMENT REMOVAL                                     | SQ YD | 88             | 88                    |
|          |                                                      |       |                |                       |
| 44000157 | HOT-MIX ASPHALT SURFACE REMOVAL, 2"                  | SQ YD | 75             | 75                    |
|          |                                                      |       |                |                       |
| 44000164 | HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"              | SQ YD | 739            | 739                   |
|          |                                                      |       |                |                       |

\*SPECIALITY ITEM

|  |                          |            |           |                                                   |                       |       |    |                    |           |            |                 |                  |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------------------|-----------|------------|-----------------|------------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO.     |
|  |                          | DRAWN -    | REVISED - |                                                   |                       |       |    | 673                | (112BR)ES | LIVINGSTON | 65              | 4                |
|  |                          | CHECKED -  | REVISED - |                                                   |                       |       |    | CONTRACT NO. 66L79 |           |            |                 |                  |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS        | FED. AID PROJECT |

MODEL: Default  
FILE NAME: c:\pw\_workspace\jzagar\j1008618\86L79-SOO.dgn

| CODE NO. | ITEM                                    | UNIT  | TOTAL QUANTITY | CONSTR. CODE         |
|----------|-----------------------------------------|-------|----------------|----------------------|
|          |                                         |       |                | 80% FED<br>20% STATE |
|          |                                         |       |                | BRIDGE               |
|          |                                         |       |                | 0010                 |
|          |                                         |       |                | S.N. 053-0194        |
|          |                                         |       |                |                      |
| 44000166 | HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4" | SQ YD | 376            | 376                  |
|          |                                         |       |                |                      |
| 44004000 | PAVED DITCH REMOVAL                     | FOOT  | 159            | 159                  |
|          |                                         |       |                |                      |
| 44004250 | PAVED SHOULDER REMOVAL                  | SQ YD | 670            | 670                  |
|          |                                         |       |                |                      |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B        | TON   | 11             | 11                   |
|          |                                         |       |                |                      |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8"           | SQ YD | 651            | 651                  |
|          |                                         |       |                |                      |
| 50100100 | REMOVAL OF EXISTING STRUCTURES          | EACH  | 1              | 1                    |
|          |                                         |       |                |                      |
| 50105220 | PIPE CULVERT REMOVAL                    | FOOT  | 68             | 68                   |
|          |                                         |       |                |                      |
| 50200100 | STRUCTURE EXCAVATION                    | CU YD | 112            | 112                  |
|          |                                         |       |                |                      |
| 50200300 | COFFERDAM EXCAVATION                    | CU YD | 132            | 132                  |
|          |                                         |       |                |                      |
| 50201101 | COFFERDAM (TYPE 1) (LOCATION - 1)       | EACH  | 1              | 1                    |
|          |                                         |       |                |                      |
| 50201102 | COFFERDAM (TYPE 1) (LOCATION - 2)       | EACH  | 1              | 1                    |
|          |                                         |       |                |                      |
| 50300225 | CONCRETE STRUCTURES                     | CU YD | 147.4          | 147.4                |
|          |                                         |       |                |                      |
| 50300255 | CONCRETE SUPERSTRUCTURE                 | CU YD | 169.2          | 169.2                |
|          |                                         |       |                |                      |
| 50300260 | BRIDGE DECK GROOVING                    | SQ YD | 554            | 554                  |
|          |                                         |       |                |                      |

\*SPECIALITY ITEM

|  |                          |            |           |                                                   |                       |       |    |                    |           |            |                           |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------------------|-----------|------------|---------------------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS           | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |                       |       |    | 673                | (112BR)ES | LIVINGSTON | 65                        | 5            |
|  |                          | CHECKED -  | REVISED - |                                                   |                       |       |    | CONTRACT NO. 66L79 |           |            |                           |              |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS FED. AID PROJECT |              |

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\zagar\k1008618\66L79-SOO.dgn

| CODE NO. | ITEM                                      | UNIT  | TOTAL QUANTITY | CONSTR. CODE          |
|----------|-------------------------------------------|-------|----------------|-----------------------|
|          |                                           |       |                | 80% FED<br>20% STATE  |
|          |                                           |       |                | BRIDGE                |
|          |                                           |       |                | 0010<br>S.N. 053-0194 |
|          |                                           |       |                |                       |
| 50300300 | PROTECTIVE COAT                           | SQ YD | 595            | 595                   |
|          |                                           |       |                |                       |
| 50301350 | CONCRETE SUPERSTRUCTURE (APPROACH SLAB)   | CU YD | 105 .4         | 105 .4                |
|          |                                           |       |                |                       |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED          | POUND | 113880         | 113830                |
|          |                                           |       |                |                       |
| 50800515 | BAR SPLICERS                              | EACH  | 723            | 723                   |
|          |                                           |       |                |                       |
| 50900211 | STEEL RAILING, TYPE IL-OH                 | FOOT  | 225            | 225                   |
|          |                                           |       |                |                       |
| 51200959 | FURNISHING METAL SHELL PILES 14" X 0.312" | FOOT  | 670            | 670                   |
|          |                                           |       |                |                       |
| 51202305 | DRIVING PILES                             | FOOT  | 670            | 670                   |
|          |                                           |       |                |                       |
| 51203200 | TEST PILE METAL SHELLS                    | EACH  | 4              | 4                     |
|          |                                           |       |                |                       |
| 51204650 | PILE SHOES                                | EACH  | 24             | 24                    |
|          |                                           |       |                |                       |
| 51500100 | NAME PLATES                               | EACH  | 1              | 1                     |
|          |                                           |       |                |                       |
| 52200010 | TEMPORARY SHEET PILING                    | SQ FT | 509            | 509                   |
|          |                                           |       |                |                       |
| 542D0223 | PIPE CULVERTS, CLASS D, TYPE 1 18"        | FOOT  | 108            | 108                   |
|          |                                           |       |                |                       |
| 54213453 | END SECTIONS 18"                          | EACH  | 4              | 4                     |
|          |                                           |       |                |                       |
| 58600101 | GRANULAR BACKFILL FOR STRUCTURES          | CU YD | 55             | 55                    |
|          |                                           |       |                |                       |

\*SPECIALITY ITEM

|  |                          |            |           |                                                   |                       |       |    |                    |           |            |                           |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------------------|-----------|------------|---------------------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS           | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |                       |       |    | 673                | (112BR)ES | LIVINGSTON | 65                        | 6            |
|  |                          | CHECKED -  | REVISED - |                                                   |                       |       |    | CONTRACT NO. 66L79 |           |            |                           |              |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS FED. AID PROJECT |              |

MODEL: Default  
FILE NAME: c:\pw\_work\pwidott\zagarj\k\d1008618\66179-SOQ.dgn

|             |                                                              |        |                   | CONSTR. CODE         |
|-------------|--------------------------------------------------------------|--------|-------------------|----------------------|
|             |                                                              |        |                   | 80% FED<br>20% STATE |
| CODE<br>NO. | ITEM                                                         | UNIT   | TOTAL<br>QUANTITY | BRIDGE               |
|             |                                                              |        |                   | 0010                 |
|             |                                                              |        |                   | S.N. 053-0194        |
|             |                                                              |        |                   |                      |
| 59100100    | GEOCOMPOSITE WALL DRAIN                                      | SQ YD  | 37                | 37                   |
|             |                                                              |        |                   |                      |
| 60100060    | CONCRETE HEADWALLS FOR PIPE DRAINS                           | EACH   | 4                 | 4                    |
|             |                                                              |        |                   |                      |
| 60146304    | PIPE UNDERDRAINS FOR STRUCTURES 4"                           | FOOT   | 123               | 123                  |
|             |                                                              |        |                   |                      |
| 63000001    | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS             | FOOT   | 213               | 213                  |
|             |                                                              |        |                   |                      |
| 63100117    | TRAFFIC BARRIER TERMINAL, TYPE 13                            | EACH   | 3                 | 3                    |
|             |                                                              |        |                   |                      |
| 63100167    | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT           | EACH   | 3                 | 3                    |
|             |                                                              |        |                   |                      |
| 63200310    | GUARDRAIL REMOVAL                                            | FOOT   | 430               | 430                  |
|             |                                                              |        |                   |                      |
| 64200108    | SHOULDER RUMBLE STRIPS, 8 INCH                               | FOOT   | 904               | 904                  |
|             |                                                              |        |                   |                      |
| 64300260    | IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH   | 1                 | 1                    |
|             |                                                              |        |                   |                      |
| 66700205    | PERMANENT SURVEY MARKERS, TYPE I                             | EACH   | 1                 | 1                    |
|             |                                                              |        |                   |                      |
| 67000400    | ENGINEER'S FIELD OFFICE, TYPE A                              | CAL MO | 6                 | 6                    |
| 67100100    | MOBILIZATION                                                 | L SUM  | 1                 | 1                    |
| 70100405    | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321              | EACH   | 1                 | 1                    |
|             |                                                              |        |                   |                      |
| 70100450    | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201              | L SUM  | 1                 | 1                    |
|             |                                                              |        |                   |                      |
| 70100460    | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306              | L SUM  | 1                 | 1                    |
|             |                                                              |        |                   |                      |

\*SPECIALITY ITEM

|  |                            |              |             |                                                   |                       |       |    |        |                    |           |          |                 |              |
|--|----------------------------|--------------|-------------|---------------------------------------------------|-----------------------|-------|----|--------|--------------------|-----------|----------|-----------------|--------------|
|  | USER NAME   = Joseph.Zagar | DESIGNED   - | REVISED   - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    |        | F.A.P.<br>RTE.     | SECTION   | COUNTY   | TOTAL<br>SHEETS | SHEET<br>NO. |
|  |                            | DRAWN    -   | REVISED   - |                                                   |                       |       |    |        | 673                | (112BR)ES | LMNGSTON | 65              | 7            |
|  |                            | CHECKED   -  | REVISED   - |                                                   |                       |       |    |        | CONTRACT NO. 66L79 |           |          |                 |              |
|  | PLOT DATE   = 8/13/2024    | DATE       - | REVISED   - |                                                   | SCALE:                | SHEET | OF | SHEETS | STA.               | TO STA.   |          |                 |              |

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\zagar\k1008618\66L79-SOO.dgn

| CODE NO.   | ITEM                                                                   | UNIT  | TOTAL QUANTITY | CONSTR. CODE          |
|------------|------------------------------------------------------------------------|-------|----------------|-----------------------|
|            |                                                                        |       |                | 80% FED<br>20% STATE  |
|            |                                                                        |       |                | BRIDGE                |
|            |                                                                        |       |                | 0010<br>S.N. 053-0194 |
|            |                                                                        |       |                |                       |
| 70100500   | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326                        | L SUM | 1              | 1                     |
|            |                                                                        |       |                |                       |
| 70106500   | TEMPORARY BRIDGE TRAFFIC SIGNALS                                       | EACH  | 1              | 1                     |
|            |                                                                        |       |                |                       |
| 70106700   | TEMPORARY RUMBLE STRIPS                                                | EACH  | 12             | 12                    |
|            |                                                                        |       |                |                       |
| 70300100   | SHORT TERM PAVEMENT MARKING                                            | FOOT  | 120            | 120                   |
|            |                                                                        |       |                |                       |
| 70300150   | SHORT TERM PAVEMENT MARKING REMOVAL                                    | SQ FT | 40             | 40                    |
|            |                                                                        |       |                |                       |
| 70400100   | TEMPORARY CONCRETE BARRIER                                             | FOOT  | 487.5          | 487.5                 |
|            |                                                                        |       |                |                       |
| 70400125   | PINNING TEMPORARY CONCRETE BARRIER                                     | EACH  | 57             | 57                    |
|            |                                                                        |       |                |                       |
| 70400200   | RELOCATE TEMPORARY CONCRETE BARRIER                                    | FOOT  | 438            | 438                   |
|            |                                                                        |       |                |                       |
| 70600251   | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH  | 2              | 2                     |
|            |                                                                        |       |                |                       |
| 70600352   | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3   | EACH  | 2              | 2                     |
|            |                                                                        |       |                |                       |
| * 72400310 | REMCVE SIGN PANEL - TYPE 1                                             | SQ FT | 12             | 12                    |
|            |                                                                        |       |                |                       |
| * 72501000 | TERMNAL MARKER - DIRECT APPLIED                                        | EACH  | 3              | 3                     |
|            |                                                                        |       |                |                       |
| * 78009004 | MODIFIED URETHANE PAVEMENT MARKING - LINE 4"                           | FOOT  | 2400           | 2400                  |
|            |                                                                        |       |                |                       |
| * 78009006 | MODIFIED URETHANE PAVEMENT MARKING - LINE 6"                           | FOOT  | 300            | 300                   |
|            |                                                                        |       |                |                       |

\*SPECIALITY ITEM

|  |                          |            |           |                                                   |                       |       |    |        |                    |           |                          |                 |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------|--------------------|-----------|--------------------------|-----------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    |        | F.A.P.<br>RTE.     | SECTION   | COUNTY                   | TOTAL<br>SHEETS | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |                       |       |    |        | 673                | (112BR)ES | LIVINGSTON               | 65              | 8            |
|  |                          | CHECKED -  | REVISED - |                                                   |                       |       |    |        | CONTRACT NO. 66L79 |           |                          |                 |              |
|  | PLOT DATE = 8/13/2024    | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS | STA.               | TO STA.   | ILLINOIS FED.AID PROJECT |                 |              |



MODEL: Default  
FILE NAME: c:\pw\_work\pw60\carmin\ad1032499\66L79-SQO.dgn

|            |                                                                 |       |                | CONSTR. CODE         |
|------------|-----------------------------------------------------------------|-------|----------------|----------------------|
|            |                                                                 |       |                | 80% FED<br>20% STATE |
| CODE NO.   | ITEM                                                            | UNIT  | TOTAL QUANTITY | BRIDGE               |
|            |                                                                 |       |                | 0010                 |
|            |                                                                 |       |                | S.N. 053-0194        |
|            |                                                                 |       |                |                      |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER                               | EACH  | 6              | 6                    |
|            |                                                                 |       |                |                      |
| * 78200005 | GUARDRAIL REFLECTORS, TYPE A                                    | EACH  | 9              | 9                    |
|            |                                                                 |       |                |                      |
| 78300200   | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL                       | EACH  | 6              | 6                    |
|            |                                                                 |       |                |                      |
|            |                                                                 |       |                |                      |
|            |                                                                 |       |                |                      |
| X4020700   | AGGREGATE SURFACE COURSE, TYPE B 8"                             | SQ YD | 353            | 353                  |
|            |                                                                 |       |                |                      |
| X6350204   | LINEAR DELINEATOR PANELS, 4 INCH                                | EACH  | 6              | 6                    |
|            |                                                                 |       |                |                      |
| X6350206   | LINEAR DELINEATOR PANELS, 6 INCH                                | EACH  | 4              | 4                    |
|            |                                                                 |       |                |                      |
| Z0005216   | HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL | SQ YD | 56             | 56                   |
| Z0013798   | CONSTRUCTION LAYOUT                                             | L SUM | 1              | 1                    |
| Z0030850   | TEMPORARY INFORMATION SIGNING                                   | SQ FT | 42             | 42                   |
|            |                                                                 |       |                |                      |
| Z0062456   | TEMPORARY PAVEMENT                                              | SQ YD | 264            | 264                  |

\*SPECIALITY ITEM

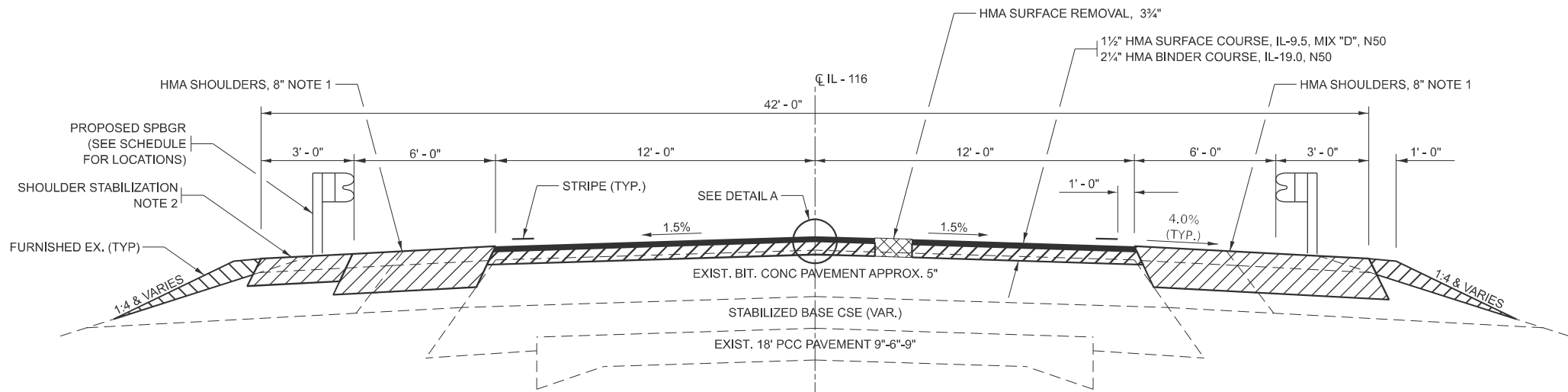
|  |                              |            |           |                                                   |                       |       |    |                    |           |            |                           |              |
|--|------------------------------|------------|-----------|---------------------------------------------------|-----------------------|-------|----|--------------------|-----------|------------|---------------------------|--------------|
|  | USER NAME = stephenie.carmin | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS           | SHEET<br>NO. |
|  |                              | DRAWN -    | REVISED - |                                                   |                       |       |    | 673                | (112BR)ES | LIVINGSTON | 65                        | 9            |
|  |                              | CHECKED -  | REVISED - |                                                   |                       |       |    | CONTRACT NO. 66L79 |           |            |                           |              |
|  | PLOT DATE = 8/21/2024        | DATE -     | REVISED - |                                                   | SCALE:                | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS FED. AID PROJECT |              |



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

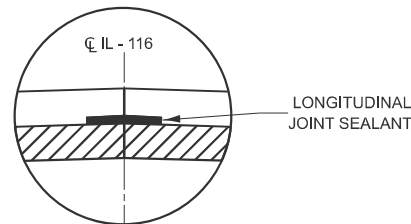
|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

MODEL: Default  
FILE NAME: c:\pw\_work\pwidott\zagarjk\d1008618\66L79-TYPICAL\_SECTIONS.dgn

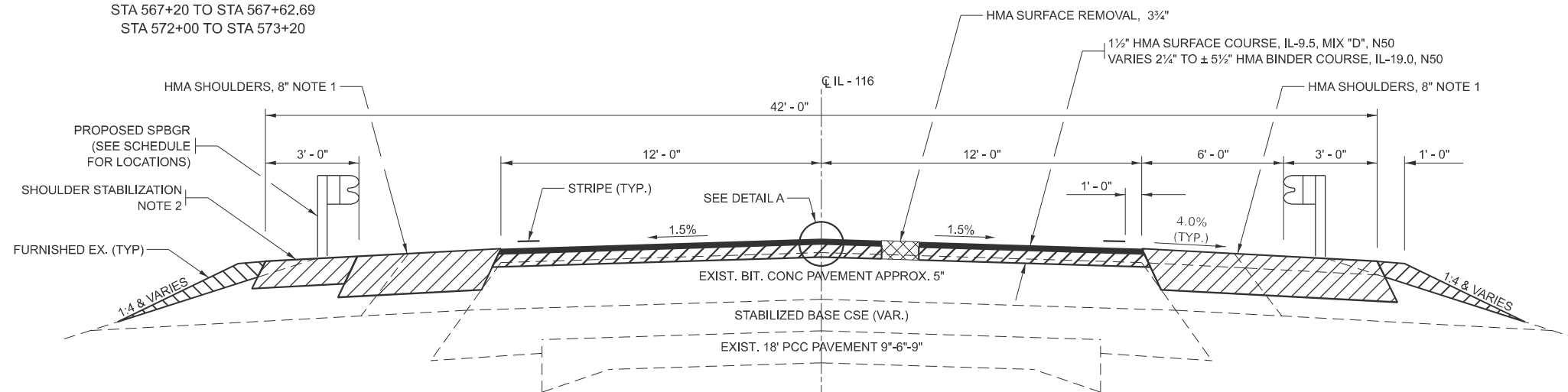


### PROPOSED TYPICAL 1

STA 567+20 TO STA 567+62.69  
STA 572+00 TO STA 573+20

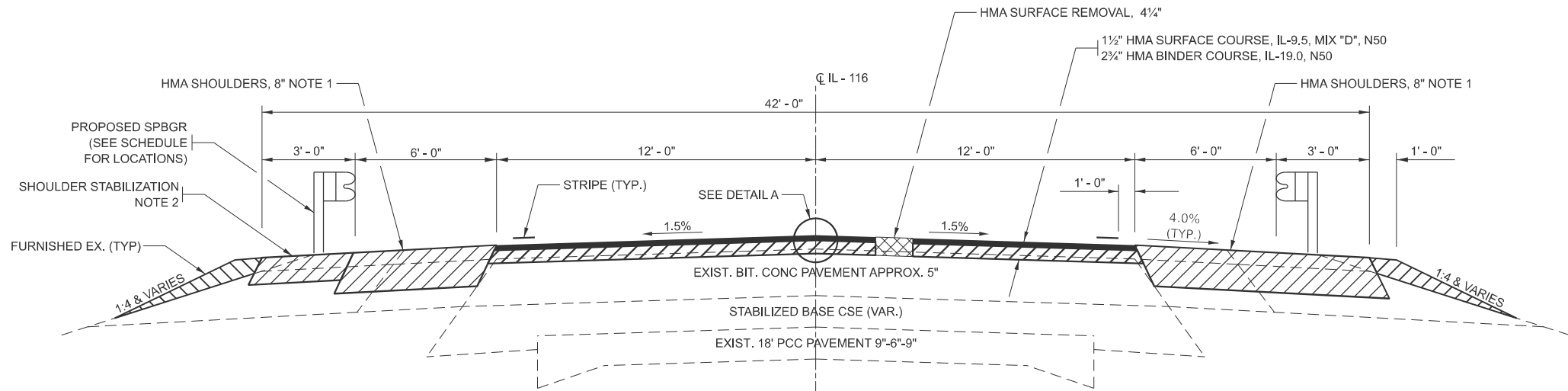


DETAIL A



### PROPOSED TYPICAL 2

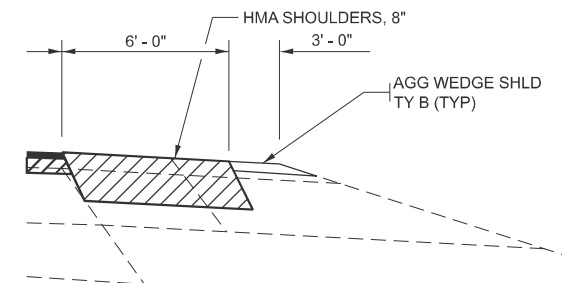
STA 567+62.69 TO STA 568+93.63



### PROPOSED TYPICAL 3

STA 570+42.38 TO STA 572+00

- NOTES
- 1) HMA SHOULDER 8"  
1 1/2" TOP LIFT - IL 9.5, N50  
2 1/2" MIDDLE LIFT - IL 19.0, N50  
4" BOTTOM LIFT - IL 19.0, N50
  - 2) SHOULDER STABILIZATION  
2" TOP LIFT - IL 9.5, N50  
4" BOTTOM LIFT - IL 19.0, N50
  - 3) SEE DETAIL B FOR LOCATIONS WHERE  
GUARDRAIL IS NOT PRESENT



DETAIL B

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED ROADWAY  
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 11        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

|                              |            |           |
|------------------------------|------------|-----------|
| USER NAME = stephenie.carmin | DESIGNED - | REVISED - |
|                              | DRAWN -    | REVISED - |
|                              | CHECKED -  | REVISED - |
| PLOT DATE = 8/21/2024        | DATE -     | REVISED - |

MAINLINE SCHEDULE

| LOCATION  |    |           |                      | LENGTH | MAINLINE WIDTH | AREA  | BIT MATLS TACK CT | LONG JOINT SEALANT | MIX CR JTS & FLANGEWYS | HMA BC HM N50 | TEMPORARY RAMP | HMA BC IL-19.0 N50 | HMA SC IL-9.5 D N50 | HMA SURF REM 3 3/4 | HMA SURF REM 4 1/4 | PAVED SHOULDER REM | AGG WEDGE SHLD TYPE B | HMA SHOULDERS 8 |
|-----------|----|-----------|----------------------|--------|----------------|-------|-------------------|--------------------|------------------------|---------------|----------------|--------------------|---------------------|--------------------|--------------------|--------------------|-----------------------|-----------------|
| STA       | TO | STA       | DESCRIPTION          | FOOT   | FOOT           | SQ YD | POUND             | FOOT               | TON                    | TON           | SQ YD          | TON                | TON                 | SQ YD              | SQ YD              | SQ YD              | TON                   | SQ YD           |
| 567+20    | TO | 567+62.69 |                      | 43     | 24             | 115   | 77                | 43                 | 0.03                   | 0.1           | 33             | 15                 | 10                  | 115                |                    | 39                 | 1                     | 65              |
| 567+62.69 | TO | 568+77    |                      | 114    | 24             | 304   | 205               | 114                | 0.09                   | 0.2           |                | 82                 | 26                  | 304                |                    | 127                | 3                     | 194             |
| 568+77    | TO | 568+93.63 |                      | 17     | 24             |       |                   | 17                 |                        |               | 33             |                    |                     |                    |                    |                    |                       |                 |
| 568+93.63 | TO | 570+42.38 | SN 038-0194 OMISSION | 149    |                |       |                   |                    |                        |               |                |                    |                     |                    |                    |                    |                       |                 |
| 570+42.38 | TO | 570+59    |                      | 17     | 24             |       |                   | 17                 |                        |               | 38             |                    |                     |                    |                    |                    |                       |                 |
| 570+59    | TO | 572+00    |                      | 141    | 24             | 376   | 254               | 141                | 0.11                   | 0.2           |                | 58                 | 32                  |                    | 376                | 157                | 1                     | 232             |
| 572+00    | TO | 573+20    |                      | 120    | 24             | 320   | 216               | 120                | 0.10                   | 0.2           | 33             | 45                 | 27                  | 320                |                    | 133                | 6                     | 160             |
| TOTAL     |    |           |                      |        |                |       | 752               | 452                | 0.33                   | 0.7           | 137            | 200                | 95                  | 739                | 376                | 456                | 11                    | 651             |

PRE-STAGE SCHEDULE

| LOCATION |    |        | LENGTH | WIDTH | HMA SC IL-9.5 D N50 | HMA SURF REM 2 | PAVED SHLD REMOVAL | TEMP SHOULDERS |
|----------|----|--------|--------|-------|---------------------|----------------|--------------------|----------------|
| STA      | TO | STA    | FOOT   | FOOT  | TON                 | SQ YD          | SQ YD              | SQ YD          |
| 567+60   | TO | 569+42 | 182    | 6     |                     |                | 81                 | 121            |
| 569+15   | TO | 569+38 | 23     | 12    | 3                   | 31             |                    |                |
| 569+96   | TO | 570+29 | 33     | 12    | 5                   | 44             |                    |                |
| 570+07   | TO | 572+20 | 213    | 6     |                     |                | 96                 | 143            |
| TOTAL    |    |        |        |       | 8                   | 75             | 177                | 264            |

TRAFFIC CONTROL & PROTECTION SCHEDULE

| LOCATION | TRAF CONT-PROT 701321 | TEMP BR TRAF SIGNALS | TEMP CONC BARRIER | REL TEMP CONCRETE BARRIER | PIN TEMP CONCRETE BARRIER | IMP ATTEN TEMP NRN TL3 | IMP ATTEN REL NRN TL3 | TEMP RUMBLE STRIPS |
|----------|-----------------------|----------------------|-------------------|---------------------------|---------------------------|------------------------|-----------------------|--------------------|
| STAGE    | EACH                  | EACH                 | FOOT              | FOOT                      | EACH                      | EACH                   | EACH                  | EACH               |
| STAGE 1  | 0.5                   | 0.5                  | 487.5             |                           | 57                        | 2                      |                       | 6                  |
| STAGE 2  | 0.5                   | 0.5                  |                   | 437.5                     |                           |                        | 2                     | 6                  |
| TOTAL    | 1                     | 1                    | 487.5             | 437.5                     | 57                        | 2                      | 2                     | 12                 |

CONNECTOR PAVEMENT

| LOCATION  |    | LENGTH    | WIDTH | SUB GRAN MAT B 12 | PVT CON HMA BR APP SL | PAVEMENT REM | PAVED SHLD REM |
|-----------|----|-----------|-------|-------------------|-----------------------|--------------|----------------|
| STA       | TO | STA       | FOOT  | FOOT              | SQ YD                 | SQ YD        | SQ YD          |
| 568+77    | TO | 568+93.63 | 17    | 24                | 66                    | 66           | 44             |
| 570+42.38 | TO | 570+59    | 17    | 24                | 66                    | 66           | 44             |
| TOTAL     |    |           |       |                   | 132                   | 132          | 88             |

PAVEMENT MARKING SCHEDULE

| LOCATION    |    |        |     | SHOULDER RUMBLE STRIP 8 IN | SHORT TERM PMK  |                | MOD URETH PM |            | RAISED REFLECTIVE PAVEMENT MARKERS |         |
|-------------|----|--------|-----|----------------------------|-----------------|----------------|--------------|------------|------------------------------------|---------|
|             |    |        |     |                            | INSTALL (2 APP) | REMOVE (2 APP) | 4" (2 APP)   | 6" (2 APP) | INSTALL                            | REMOVAL |
| STA         | TO | STA    | FT  | FOOT                       | FT              | SQ FT          | FT           | FT         | EACH                               | EACH    |
| 567+20      | TO | 573+20 | 600 | 904                        | 120             | 40             | 2400         | 300        | 6                                  | 6       |
| GRAND TOTAL |    |        |     | 904                        | 120             | 40             | 2400         | 300        | 6                                  | 6       |

MODEL: Default  
FILE NAME: c:\pwworkspace\jzagar\k41008618\66L79-SCHEDULES.dgn

| GUARDRAIL SCHEDULE          |    |        |    |    |      |                        |                               |                          |                                |                |                                |                          |                           |                              |                              |                      |
|-----------------------------|----|--------|----|----|------|------------------------|-------------------------------|--------------------------|--------------------------------|----------------|--------------------------------|--------------------------|---------------------------|------------------------------|------------------------------|----------------------|
| LOCATION                    |    |        |    |    | QUAD | * LENGTH<br>OF<br>NEED | SPBGR<br>TY A<br>6FT<br>POSTS | TRAFFIC BARRIER TERMINAL |                                | GRDRAIL<br>REM | IMP<br>ATTEN<br>FRD NAR<br>TL3 | TERMINAL<br>MARKER<br>DA | GRDRAIL<br>REFL<br>TYPE A | LINEAR<br>DELIN<br>PANELS 4" | LINEAR<br>DELIN<br>PANELS 6" | HMA<br>STAB<br>6" AT |
|                             |    |        |    |    |      |                        |                               | TYPE 13                  | TYPE 1<br>TANGENT<br>(SPECIAL) |                |                                |                          |                           | WHITE                        | WHITE                        | SPBGR                |
|                             |    |        |    |    |      |                        |                               |                          |                                |                |                                |                          |                           |                              |                              |                      |
| STATION TO STATION          |    |        |    |    |      | FT                     | FOOT                          | EACH                     | EACH                           | FOOT           | EACH                           | EACH                     | EACH                      | EACH                         | EACH                         | SQ YD                |
| PROPOSED GUARDRAIL STATIONS |    |        |    |    |      |                        |                               |                          |                                |                |                                |                          |                           |                              |                              |                      |
| 567+43                      | TO | 569+05 | RT | SW | 148  | 75                     | 1                             | 1                        | 100                            |                | 1                              | 2                        | 2                         |                              |                              |                      |
| 568+93                      | TO | 569+48 | LT | NW |      |                        |                               |                          | 55                             | 1              |                                |                          |                           |                              |                              |                      |
| 569+11                      | TO | 570+25 | RT | BR |      |                        |                               |                          |                                |                |                                | 1                        |                           | 2                            |                              |                      |
| 569+26                      | TO | 570+10 | LT | BR |      |                        |                               |                          |                                |                |                                | 2                        |                           | 2                            |                              |                      |
| 570+16                      | TO | 571+66 | RT | SE | 135  | 62.5                   | 1                             | 1                        | 100                            |                | 1                              | 2                        | 2                         |                              |                              |                      |
| 570+31                      | TO | 571+93 | LT | NE | 148  | 75                     | 1                             | 1                        | 175                            |                | 1                              | 2                        | 2                         |                              |                              | 56                   |
| TOTAL                       |    |        |    |    |      |                        | 212.5                         | 3                        | 3                              | 430            | 1                              | 3                        | 9                         | 6                            | 4                            | 56                   |

\* THE LENGTH OF NEED IS MEASURED FROM END OF IL-OH RAILING.

| GRADING & SHAPING    |    |    |        |    |                              |                |
|----------------------|----|----|--------|----|------------------------------|----------------|
| STATION              |    |    |        |    | GRADE<br>&<br>SHAPE<br>DITCH | FLOW DIRECTION |
|                      |    |    |        |    | FOOT                         |                |
| 567+20               | LT | TO | 567+31 | LT | 11                           |                |
| FIELD ENTRANCE       |    |    |        |    |                              |                |
| 567+97               | LT | TO | 568+00 | LT | 3                            | EAST           |
| 568+00               | LT | TO | 568+29 | LT | 29                           | EAST           |
| FIELD ENTRANCE       |    |    |        |    |                              |                |
| 568+98               | LT | TO | 569+17 | LT | 19                           | EAST           |
| BRIDGE               |    |    |        |    |                              |                |
| 570+63               | LT | TO | 573+20 | LT | 257                          | WEST           |
| SUB TOTAL LEFT SIDE  |    |    |        |    | 319                          |                |
| 567+20               | RT | TO | 568+78 | RT | 158                          | EAST           |
| BRIDGE               |    |    |        |    |                              |                |
| 570+11               | RT | TO | 573+20 | RT | 309                          | WEST           |
| SUB TOTAL RIGHT SIDE |    |    |        |    | 467                          |                |
| TOTAL                |    |    |        |    | 786                          |                |

| SIGN SCHEDULE |    |              |                            |
|---------------|----|--------------|----------------------------|
| LOCATION      |    | NOTES        | REMOVE SIGN<br>PANEL TYP 1 |
| STA           |    |              | SQ YD                      |
| 568+40        | RT | WEIGHT LIMIT | 6                          |
| 571+70        | LT | WEIGHT LIMIT | 6                          |
| TOTAL         |    |              | 12                         |

| TEMPORARY EROSION CONTROL SCHEDULE |  |              |  |                        |  |                           |  |                           |  |  |  |
|------------------------------------|--|--------------|--|------------------------|--|---------------------------|--|---------------------------|--|--|--|
| LOCATION                           |  |              |  | TEMPORARY DITCH CHECKS |  | INLET AND PIPE PROTECTION |  | PERIMETER EROSION BARRIER |  |  |  |
| STA                                |  |              |  | FOOT                   |  | EACH                      |  | FOOT                      |  |  |  |
| 567+20                             |  | LT TO 567+47 |  | LT                     |  |                           |  | 27                        |  |  |  |
| 567+20                             |  | RT TO 569+15 |  | RT                     |  |                           |  | 195                       |  |  |  |
| 567+30                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 567+41                             |  | LT           |  |                        |  | 1                         |  |                           |  |  |  |
| 567+80                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 567+82                             |  | LT TO 568+45 |  | LT                     |  |                           |  | 63                        |  |  |  |
| 568+00                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 568+10                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 568+25                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 568+35                             |  | LT           |  |                        |  | 1                         |  |                           |  |  |  |
| 568+50                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 568+75                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 568+95                             |  | LT TO 569+61 |  | LT                     |  |                           |  | 66                        |  |  |  |
| 569+00                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 569+15                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 569+20                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 569+40                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 569+60                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| BRIDGE                             |  |              |  |                        |  |                           |  |                           |  |  |  |
| 569+80                             |  | RT TO 573+20 |  | RT                     |  |                           |  | 340                       |  |  |  |
| 569+80                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 569+95                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+10                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+26                             |  | LT TO 573+20 |  | LT                     |  |                           |  | 294                       |  |  |  |
| 570+26                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+44                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+62                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+30                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 570+80                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 571+30                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 571+80                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| 572+30                             |  | RT           |  |                        |  | 6                         |  |                           |  |  |  |
| 572+80                             |  | LT           |  |                        |  | 6                         |  |                           |  |  |  |
| TOTAL                              |  |              |  | 144                    |  | 2                         |  | 985                       |  |  |  |

| EARTHWORK SCHEDULE |    |           |                                                |                  |                                         |            |                                             |                      |
|--------------------|----|-----------|------------------------------------------------|------------------|-----------------------------------------|------------|---------------------------------------------|----------------------|
| LOCATION           |    |           | NOTES                                          | EARTH EXCAVATION | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) | FURNISHED EXCAVATION |
| STA                | TO | STA       |                                                | CU. YD.          | CU. YD.                                 | CU. YD.    | CU. YD.                                     | CU. YD.              |
| 567+20             | TO | 568+93.63 | PRE-STAGE CONSTRUCTION OF TEMPORARY SHOULDERS. | 9.0              | 6.8                                     |            | 6.8                                         | -6.8                 |
| 567+20             | TO | 568+93.63 | HMA SHOULDER 8"                                | 18.5             | 13.9                                    | 30.6       | -16.7                                       | 16.7                 |
| 567+20             | TO | 568+93.63 | FIELD ENTRANCE AT STA 567+62.69                | 63.1             | 47.3                                    | 49.6       | -2.3                                        | 2.3                  |
| 567+20             | TO | 568+93.63 | FIELD ENTRANCE AT STA 568+67                   | 50.1             | 37.6                                    | 136.1      | -98.5                                       | 98.5                 |
| 567+20             | TO | 568+93.63 | GRADING AND SHAPING                            | 35.7             | 26.8                                    |            | 26.8                                        | -26.8                |
| 567+21             | TO | 568+94.63 | CONNECTOR PAVEMENT                             | 2.9              | 2.2                                     |            | 2.2                                         | -2.2                 |
| 568+41             | TO | 573+19.00 | CONNECTOR PAVEMENT                             | 2.9              | 2.2                                     |            | 2.2                                         | -2.2                 |
| 568+42             | TO | 573+20.00 | PRE-STAGE CONSTRUCTION OF TEMPORARY SHOULDERS. | 10.6             | 8.0                                     |            | 8.0                                         | -8.0                 |
| 568+42             | TO | 573+20.00 | HMA SHOULDER 8"                                | 22.7             | 17.0                                    | 36.5       | -19.5                                       | 19.5                 |
| 568+42             | TO | 573+20.00 | HMA STABILIZATION                              | 9.3              | 7.0                                     |            | 7.0                                         | -7.0                 |
| 568+42             | TO | 573+20.00 | GRADING AND SHAPING                            | 34.9             | 26.2                                    |            | 26.2                                        | -26.2                |
| TOTAL              |    |           |                                                | 260              | 195                                     | 253        | -58                                         | 58                   |

NOTE: SHRINKAGE FACTOR 25%

| FIELD ENTRANCE SCHEDULE |                   |                      |
|-------------------------|-------------------|----------------------|
| LOCATION                | NOTES             | AGG SURF CSE TY B 8" |
| STA                     |                   | SQ YD                |
| 567+62.69               | LT FIELD ENTRANCE | 124                  |
| 568+67                  | LT FIELD ENTRANCE | 229                  |
| TOTAL                   |                   | 353                  |

| DRAINAGE SCHEDULE |    |       |                                                                                       |                    |                    |               |                     |                      |                 |                        |                       |
|-------------------|----|-------|---------------------------------------------------------------------------------------|--------------------|--------------------|---------------|---------------------|----------------------|-----------------|------------------------|-----------------------|
| LOCATION          |    |       | DESCRIPTION OF WORK                                                                   | CHANNEL EXCAVATION | STONE RIPRAP CL A4 | FILTER FABRIC | PAVED DITCH REMOVAL | PIPE CULVERT REMOVAL | END SECTIONS 18 | PIPE CULVERT CL D 1 18 | CONC HDWL FOR P DRAIN |
| STA               | OS | RT/LT |                                                                                       | CU YD              | SQ YD              | SQ YD         | FOOT                | FOOT                 | EACH            | EACH                   | EACH                  |
| 568+97            | 43 | RT    | REMOVE PAVED DITCH AND REPLACE WITH RR4                                               |                    | 31                 | 31            | 35                  |                      |                 |                        |                       |
| 569+30            | 50 | LT    | REMOVE PAVED DITCH AND REPLACE WITH RR4                                               |                    | 54                 | 54            | 61                  |                      |                 |                        |                       |
| 569+95            | 46 | RT    | REMOVE PAVED DITCH AND REPLACE WITH RR4                                               |                    | 25                 | 25            | 28                  |                      |                 |                        |                       |
| 570+45            | 57 | LT    | REMOVE PAVED DITCH AND REPLACE WITH RR4                                               |                    | 31                 | 31            | 35                  |                      |                 |                        |                       |
| 569+22            | 30 | RT    | INSTALL CONCRETE HEADWALL FOR PIPE DRAIN                                              |                    |                    |               |                     |                      |                 |                        | 1                     |
| 569+33            | 30 | LT    | INSTALL CONCRETE HEADWALL FOR PIPE DRAIN                                              |                    |                    |               |                     |                      |                 |                        | 1                     |
| 570+02            | 30 | RT    | INSTALL CONCRETE HEADWALL FOR PIPE DRAIN                                              |                    |                    |               |                     |                      |                 |                        | 1                     |
| 570+12            | 30 | LT    | INSTALL CONCRETE HEADWALL FOR PIPE DRAIN                                              |                    |                    |               |                     |                      |                 |                        | 1                     |
| 567+62.69         | 44 | LT    | REMOVE EXISTING CMP CULVERT AND END SECTIONS                                          |                    |                    |               |                     | 36                   |                 |                        |                       |
| 567+62.69         | 44 | LT    | INSTALLING CMP CULVERT AND END SECTIONS. (E) U.S. 652.87 ELEV., (W) D.S. 652.43 ELEV. |                    |                    |               |                     |                      | 2               | 44                     |                       |
| 568+67            | 47 | LT    | INSTALLING CMP CULVERT AND END SECTIONS. (E) U.S. 651.51 ELEV., (W) D.S. 650.91 ELEV  |                    |                    |               |                     |                      | 2               | 64                     |                       |
| 568+74            | 47 | LT    | REMOVE EXISTING CMP CULVERT AND END SECTIONS                                          |                    |                    |               |                     | 32                   |                 |                        |                       |
| 569+68            | 43 | RT/LT | CHANNEL EXCAVATION AS SHOW IN STRUCTURE PLANS                                         | 543                |                    |               |                     |                      |                 |                        |                       |
| TOTAL             |    |       |                                                                                       | 543                | 141                | 141           | 159                 | 68                   | 4               | 108                    | 4                     |

MODEL: Default  
FILE NAME: c:\pwworking\jzagar\k1008618\66L79-SCHEDULES.dgn

|  |                          |  |            |           |                                                   |           |       |    |                    |           |            |                          |           |
|--|--------------------------|--|------------|-----------|---------------------------------------------------|-----------|-------|----|--------------------|-----------|------------|--------------------------|-----------|
|  | USER NAME = Joseph.Zagar |  | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | SCHEDULES |       |    | F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS             | SHEET NO. |
|  |                          |  | DRAWN -    | REVISED - |                                                   |           |       |    | 673                | (112BR)ES | LIVINGSTON | 65                       | 14        |
|  |                          |  | CHECKED -  | REVISED - |                                                   |           |       |    | CONTRACT NO. 66L79 |           |            |                          |           |
|  | PLOT DATE = 8/26/2024    |  | DATE -     | REVISED - |                                                   | SCALE:    | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS FED.AID PROJECT |           |



SEEDING SCHEDULE

| LOCATION |    |           |    | NOTES                 | LENGTH | WIDTH | AREA  | SEEDING<br>CL 2A | NITRO<br>FERT<br>NUTR | PHOSP<br>FERT<br>NUTR | POT<br>FERT<br>NUTR | EROSION<br>CONTROL<br>BLANKET | TEMP. ERO.<br>CNTRL. SEED<br>(2 APPL) | TEMP. ERO.<br>CNTRL. BLANKET<br>(2 APPL) |
|----------|----|-----------|----|-----------------------|--------|-------|-------|------------------|-----------------------|-----------------------|---------------------|-------------------------------|---------------------------------------|------------------------------------------|
| STA      | TO | STA       |    |                       | FOOT   | FOOT  | SQ YD | ACRE             | LB                    | LB                    | LB                  | SQ YD                         | POUND                                 | SQ YD                                    |
| 567+20   | LT | TO 567+31 | LT | DITCH GRADING         | 11     | 6     | 7     | 0.002            | 0.18                  | 0.18                  | 0.18                | 7                             | 0.40                                  | 14                                       |
| 567+97   | LT | TO 568+00 | LT | DITCH GRADING         | 3      | 6     | 2     | 0.001            | 0.09                  | 0.09                  | 0.09                | 2                             | 0.20                                  | 4                                        |
| 568+00   | LT | TO 568+29 | LT | DITCH GRADING         | 29     | 6     | 19    | 0.004            | 0.36                  | 0.36                  | 0.36                | 19                            | 0.80                                  | 38                                       |
| 570+59   | LT | TO 573+20 | LT | DITCH GRADING         | 261    | 6     | 174   | 0.036            | 3.24                  | 3.24                  | 3.24                | 174                           | 7.20                                  | 348                                      |
| 567+20   | RT | TO 568+78 | RT | DITCH GRADING         | 158    | 10    | 176   | 0.037            | 3.33                  | 3.33                  | 3.33                | 176                           | 7.40                                  | 352                                      |
| 570+45   | RT | TO 573+20 | RT | DITCH GRADING         | 275    | 10    | 306   | 0.064            | 5.76                  | 5.76                  | 5.76                | 306                           | 12.80                                 | 612                                      |
| 568+63   |    |           | LT | FIELD ENTRANCE SLOPES |        |       | 182   | 0.038            | 3.42                  | 3.42                  | 3.42                | 182                           | 7.60                                  | 364                                      |
| 568+67   |    |           | LT | FIELD ENTRANCE SLOPES |        |       | 213   | 0.045            | 4.05                  | 4.05                  | 4.05                | 213                           | 9.00                                  | 426                                      |
| 567+20   | LT | TO 567+31 | LT | FORESLOPE             | 11     | 5     | 6     | 0.002            | 0.18                  | 0.18                  | 0.18                | 6                             | 0.40                                  | 12                                       |
| 567+97   | LT | TO 568+29 | LT | FORESLOPE             | 32     | 6     | 21    | 0.005            | 0.45                  | 0.45                  | 0.45                | 21                            | 1.00                                  | 42                                       |
| 570+59   | LT | TO 573+20 | LT | FORESLOPE             | 261    | 7     | 203   | 0.042            | 3.78                  | 3.78                  | 3.78                | 203                           | 8.40                                  | 406                                      |
| 568+93   | LT | TO 569+21 | LT | FORESLOPE             |        |       | 64    | 0.014            | 1.26                  | 1.26                  | 1.26                | 64                            | 2.80                                  | 128                                      |
| 570+30   | LT | TO 570+59 | LT | FORESLOPE             |        |       | 104   | 0.022            | 1.98                  | 1.98                  | 1.98                | 104                           | 4.40                                  | 208                                      |
| 568+78   | RT | TO 569+06 | RT | FORESLOPE             |        |       | 68    | 0.015            | 1.35                  | 1.35                  | 1.35                | 68                            | 3.00                                  | 136                                      |
| 570+14   | RT | TO 570+45 | RT | FORESLOPE             |        |       | 83    | 0.018            | 1.62                  | 1.62                  | 1.62                | 83                            | 3.60                                  | 166                                      |
| 567+20   | RT | TO 568+78 | RT | FORESLOPE             | 158    | 2     | 35    | 0.008            | 0.72                  | 0.72                  | 0.72                | 35                            | 1.60                                  | 70                                       |
| 570+45   | RT | TO 573+20 | RT | FORESLOPE             | 275    | 2     | 61    | 0.013            | 1.17                  | 1.17                  | 1.17                | 61                            | 2.60                                  | 122                                      |
| TOTAL    |    |           |    |                       |        |       |       | 0.37             | 32.94                 | 32.94                 | 32.94               | 1724                          | 73                                    | 3448                                     |

PERMANENT SURVEY MARKER SCHEDULE

| MONUMENT<br>NUMBER | DESCRIPTION                                | APPROXIMATE LOCATION   | EXISTING<br>MONUMENT<br>TYPE | PROPOSED<br>MONUMENT<br>TYPE | MONUMENT<br>RECORD TO BE<br>RECORDED | RESPONSIBILITY |
|--------------------|--------------------------------------------|------------------------|------------------------------|------------------------------|--------------------------------------|----------------|
| 116489             | N QTR CORNER SECTION 25, T27N, R3E, 3RD PM | 2.2' LT. STA 568+61.03 | MAG SPIKE                    | TYPE 1                       | YES                                  | 1              |
|                    |                                            |                        |                              |                              |                                      |                |

UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, R.E. WILL DIRECT PLATS AND PLANS TO TO GPS ANY MONUMENT SUBJECT TO DESTRUCTION FROM THE BRIDGE REPLACEMENT WORK FOR THE PURPOSE OF RESETTING IT AFTER JOB COMPLETION.

R.E. WILL DIRECT PLATS AND PLANS TO SEARCH FOR ADDITIONAL MONUMENTS IF THE CONSTRUCTION LIMITS ARE EXPANDED DURING CONSTRUCTION.

UPON PAVING COMPLETION, R.E. WILL DIRECT PLATS AND PLANS PERSONNEL TO STAKE THE LOCATION FOR TYPE 1 MONUMENT CORING.

PLATS AND PLANS WILL PREPARE AND RECORD THE REQUIRED MONUMENT RECORD.

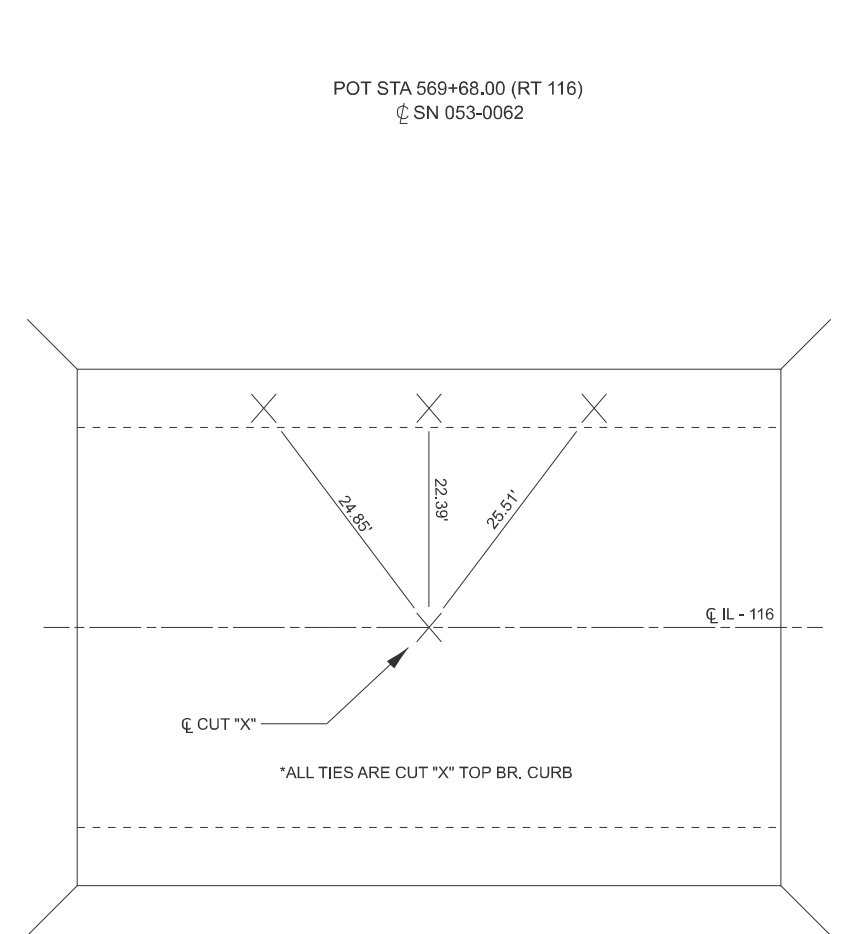
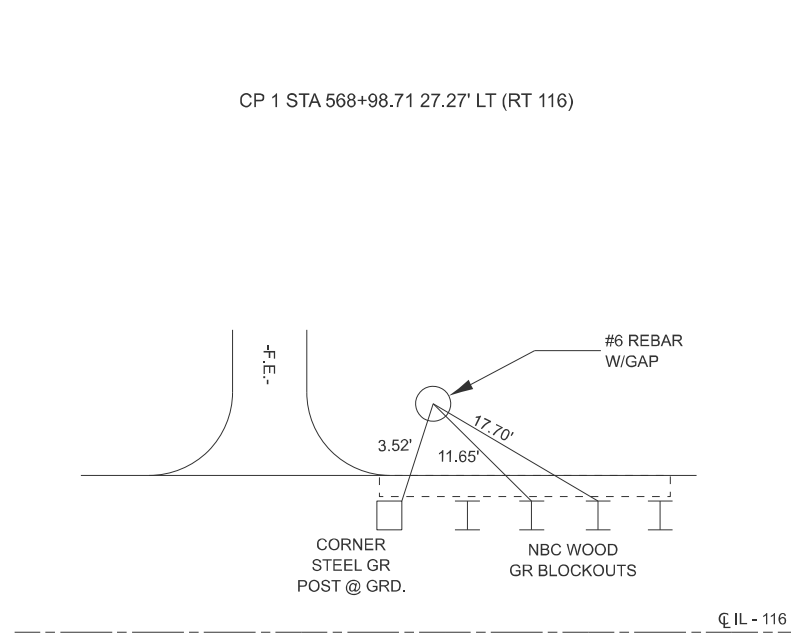
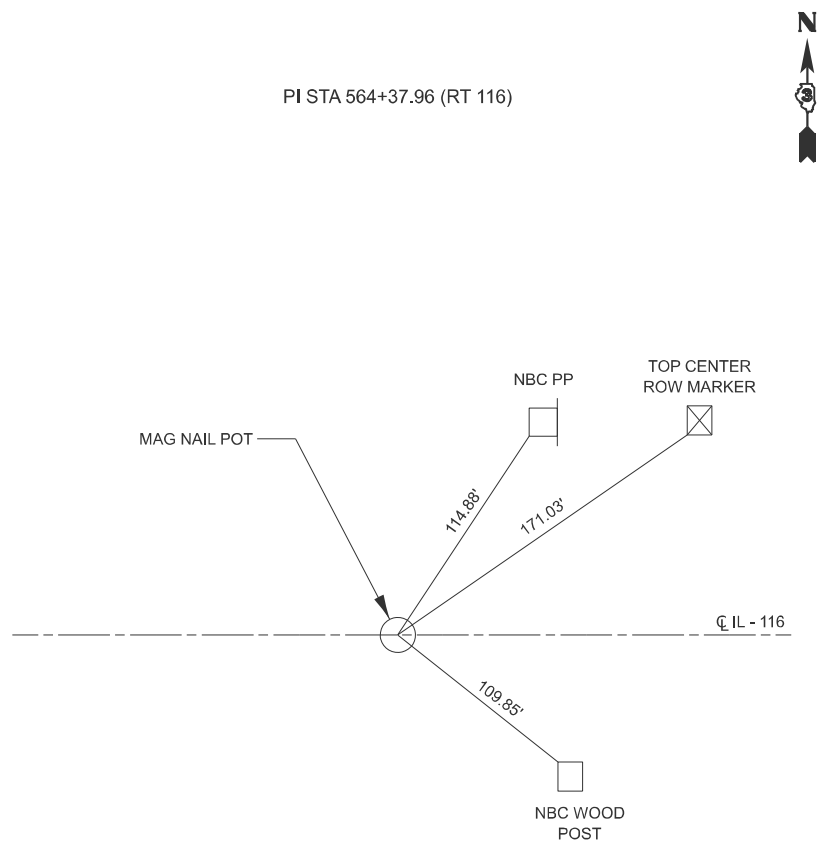
NOTE: FOR BIDDING PURPOSES, NO CONTRACTED LAND SURVEYING SERVICES WILL BE REQUIRED FOR SETTING THE LISTED PERMANENT SURVEY MARKERS.

RESPONSIBILITY:

1) RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1)

2) PLATS AND PLANS TO RE-ESTABLISH MONUMENT

MODEL: Default  
FILE NAME: c:\pwworking\jzagar\kcd1008618\66L79-SCHEDULES.dgn



|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
|                          | DRAWN -    | REVISED - |
|                          | CHECKED -  | REVISED - |
| PLOT DATE = 6/14/2024    | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

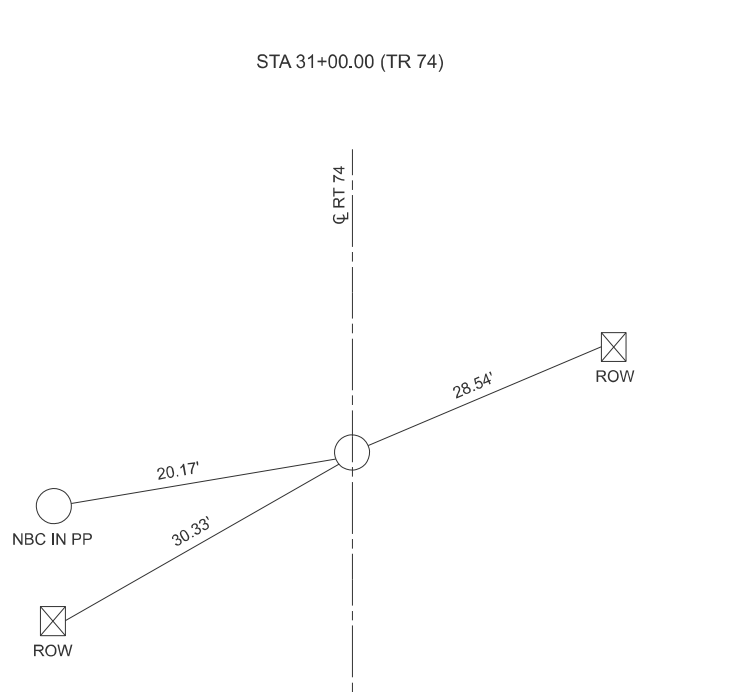
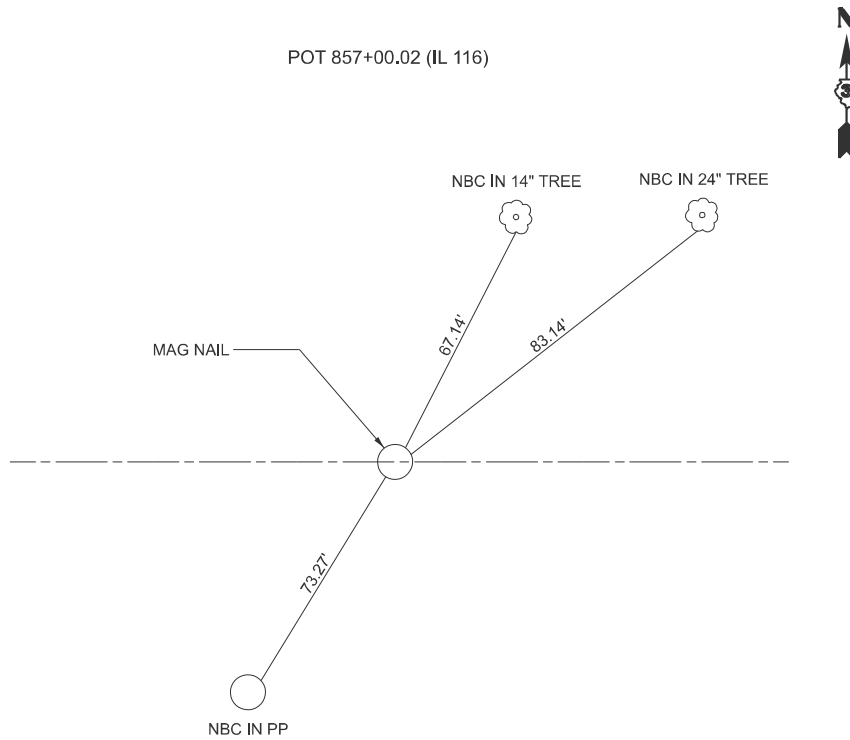
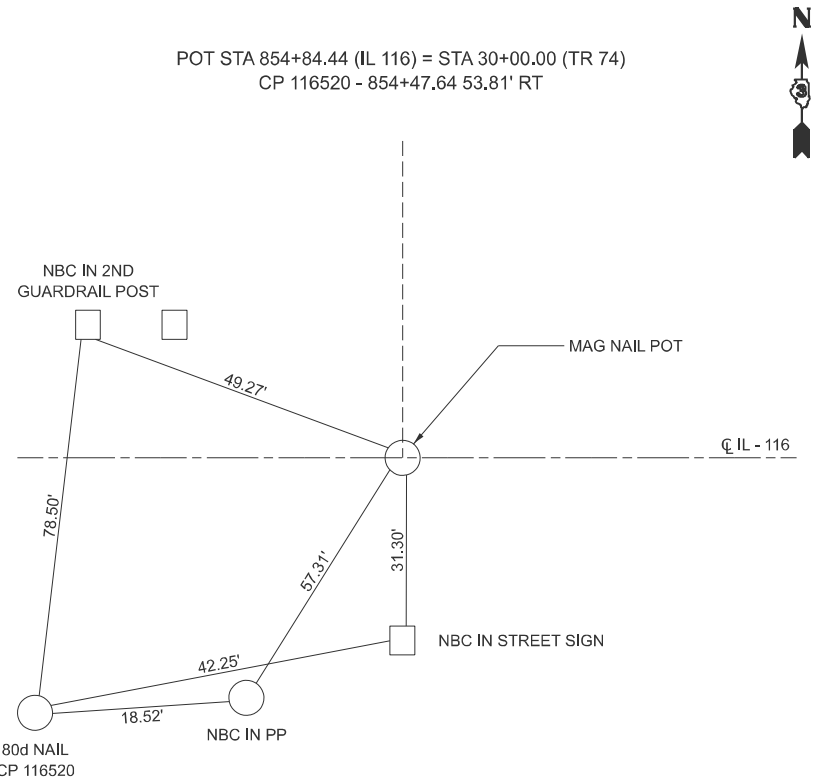
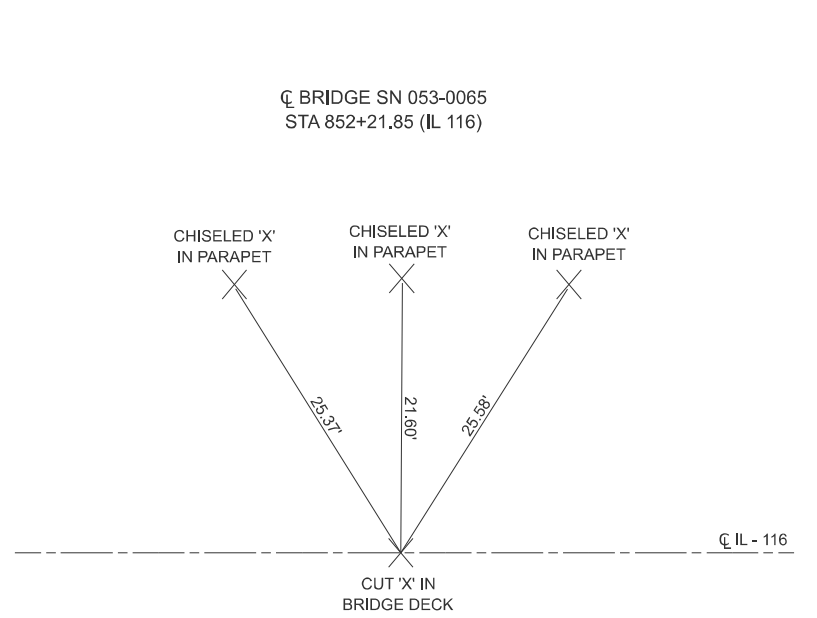
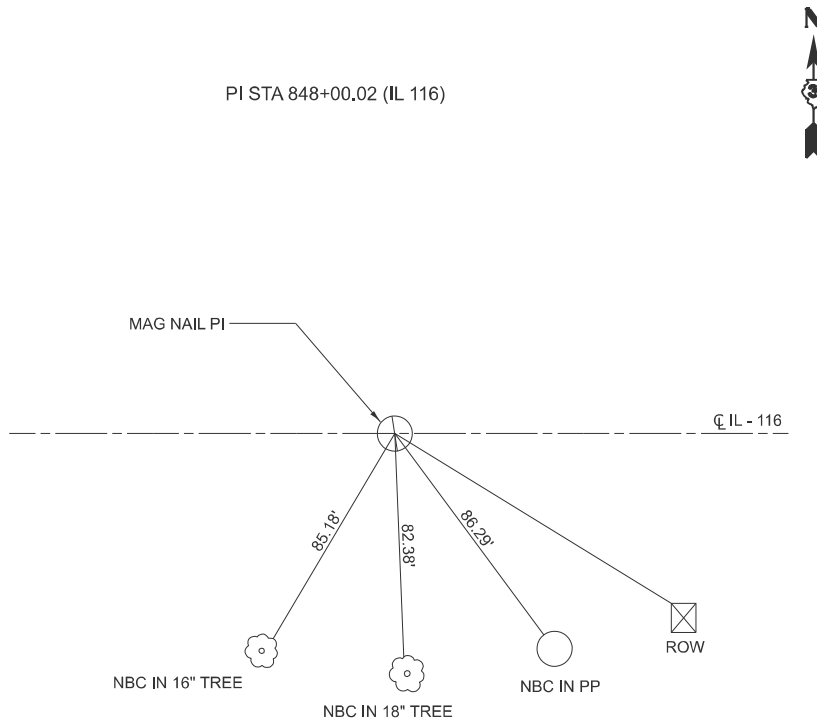
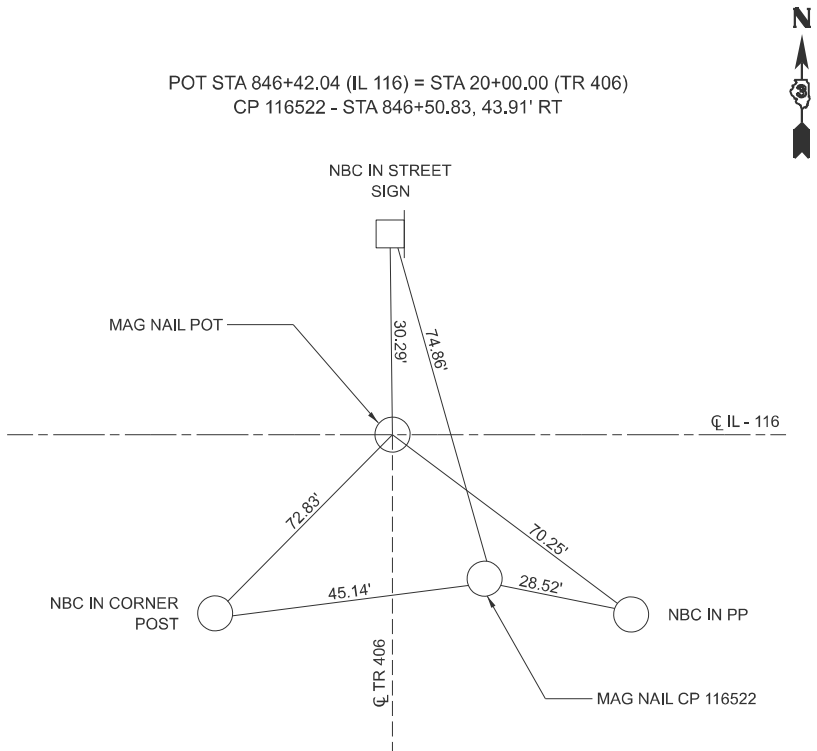
## TIE POINTS

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

|               |           |                    |                  |              |
|---------------|-----------|--------------------|------------------|--------------|
| F.A.P<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 673           | (112BR)ES | LIVINGSTON         | 65               | 16           |
|               |           | CONTRACT NO. 66L79 |                  |              |
|               |           | ILLINOIS           | FED. AID PROJECT |              |



MODEL: Default  
FILE NAME: c:\pwworking\jzagar\k1008618\0366\79-TIE POINTS.dgn



|           |                |          |   |         |   |
|-----------|----------------|----------|---|---------|---|
| USER NAME | = Joseph.Zagar | DESIGNED | - | REVISED | - |
|           |                | DRAWN    | - | REVISED | - |
|           |                | CHECKED  | - | REVISED | - |
| PLOT DATE | = 6/14/2024    | DATE     | - | REVISED | - |

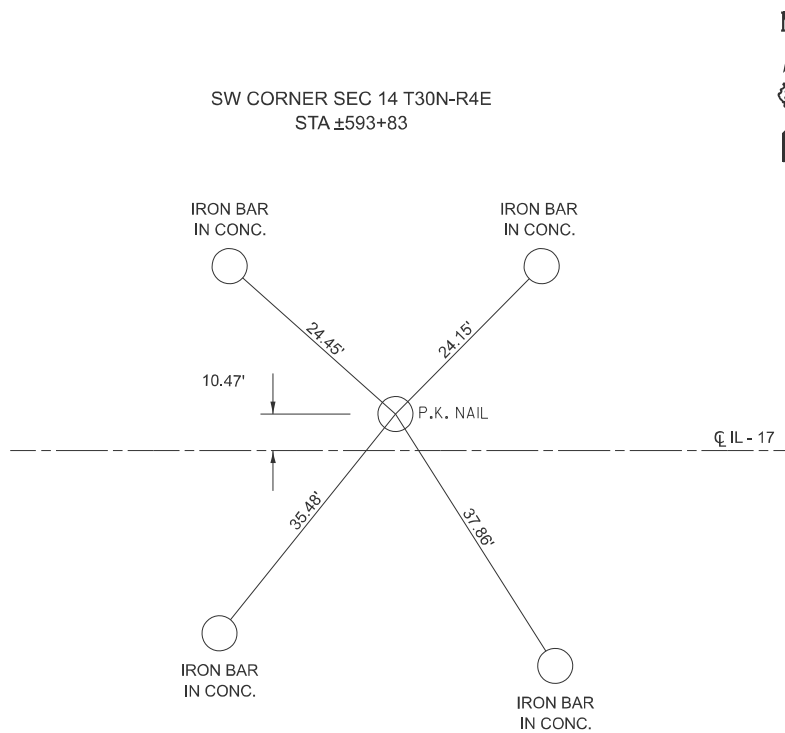
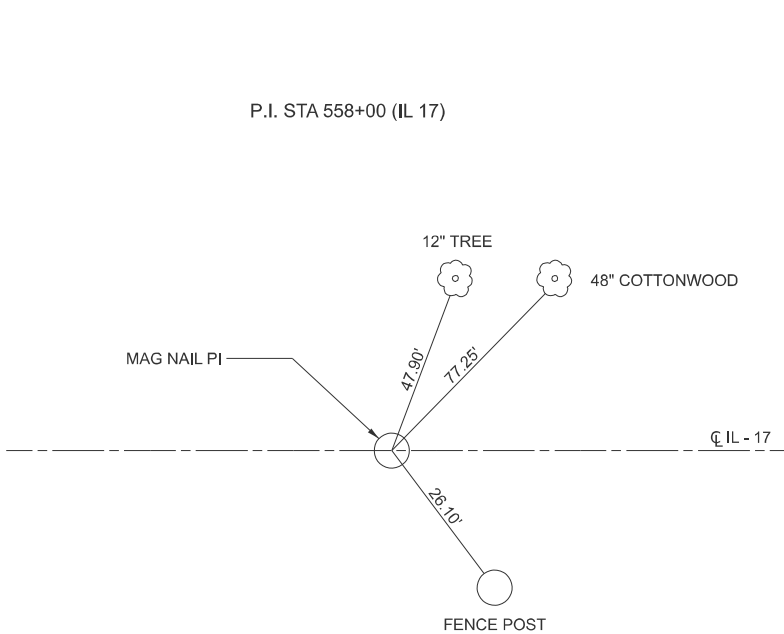
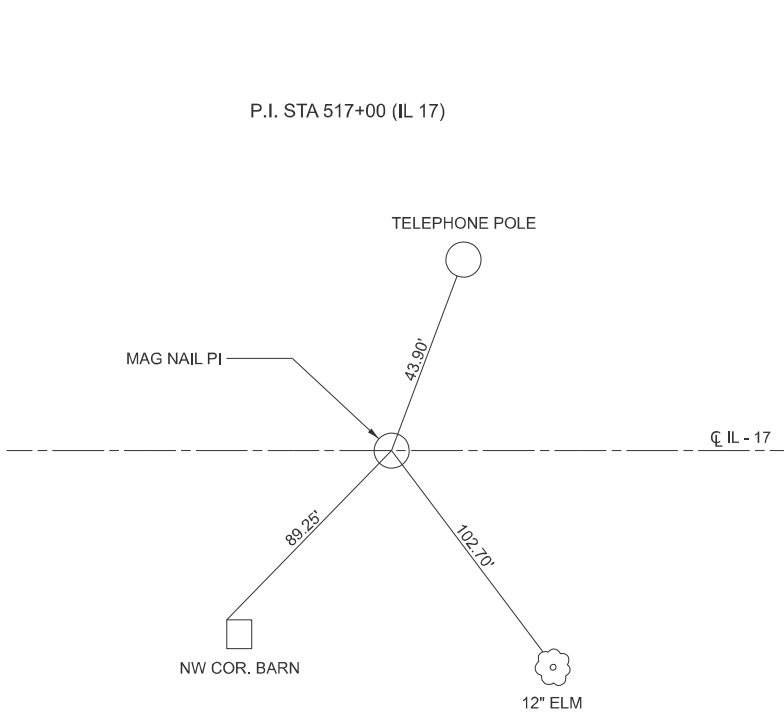
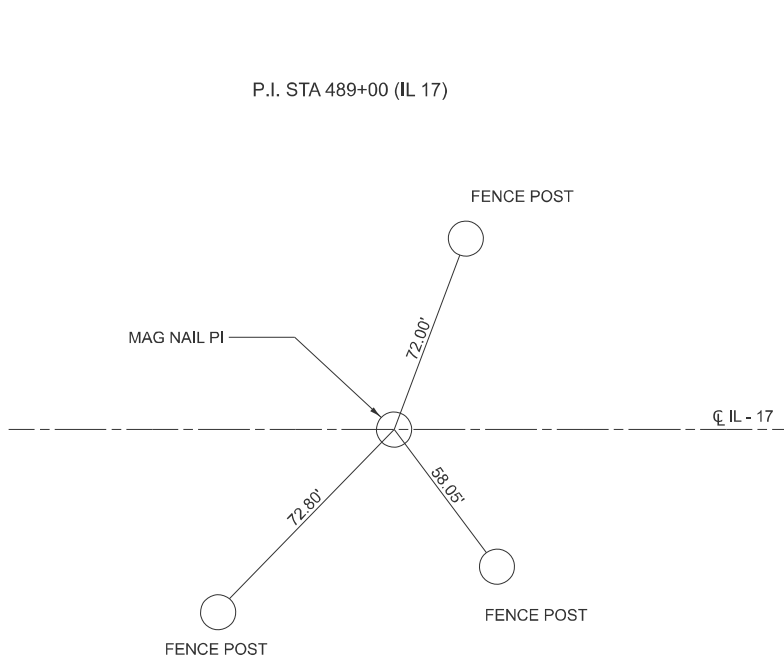
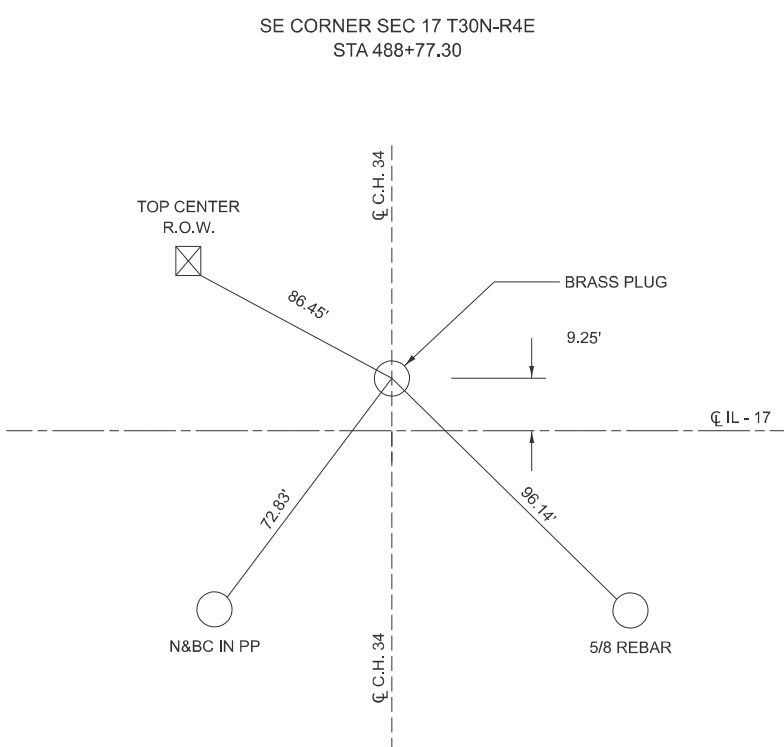
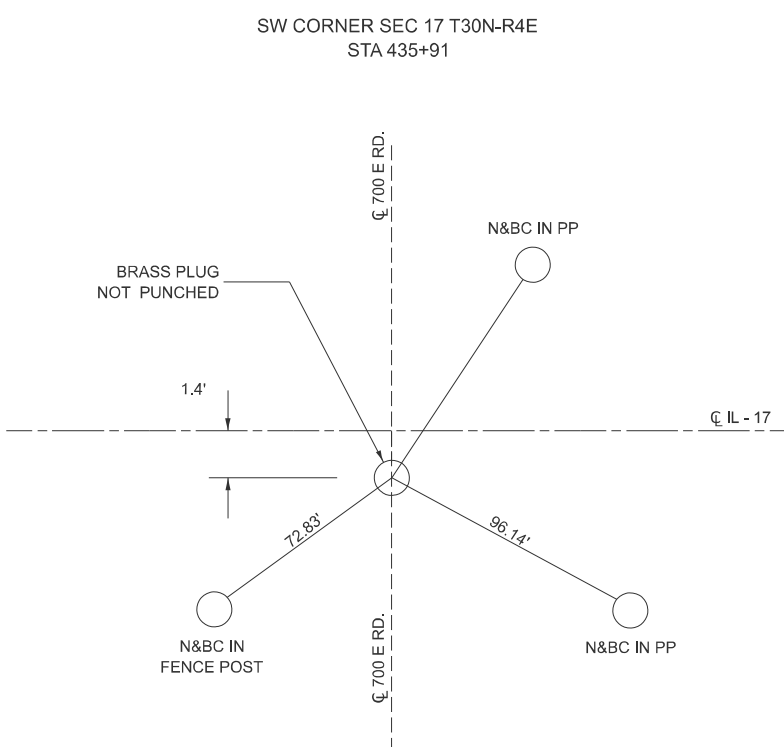
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TIE POINTS

SCALE: SHEET OF SHEETS STA. TO STA.

|            |           |                    |                  |           |
|------------|-----------|--------------------|------------------|-----------|
| F.A.P RTE. | SECTION   | COUNTY             | TOTAL SHEETS     | SHEET NO. |
| 673        | (112BR)ES | LIVINGSTON         | 65               | 17        |
|            |           | CONTRACT NO. 66L79 |                  |           |
|            |           | ILLINOIS           | FED. AID PROJECT |           |

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\zagar\k1008618\0366\79-TIE POINTS.dgn



|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
|                          | DRAWN -    | REVISED - |
|                          | CHECKED -  | REVISED - |
| PLOT DATE = 6/14/2024    | DATE -     | REVISED - |

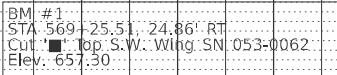
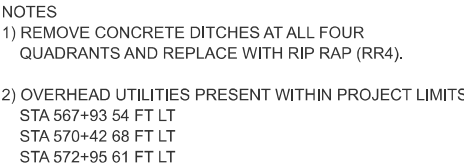
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TIE POINTS

SCALE: SHEET OF SHEETS STA. TO STA.

|               |           |                    |                  |              |
|---------------|-----------|--------------------|------------------|--------------|
| F.A.P<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 673           | (112BR)ES | LIVINGSTON         | 65               | 18           |
|               |           | CONTRACT NO. 66L79 |                  |              |
|               |           | ILLINOIS           | FED. AID PROJECT |              |

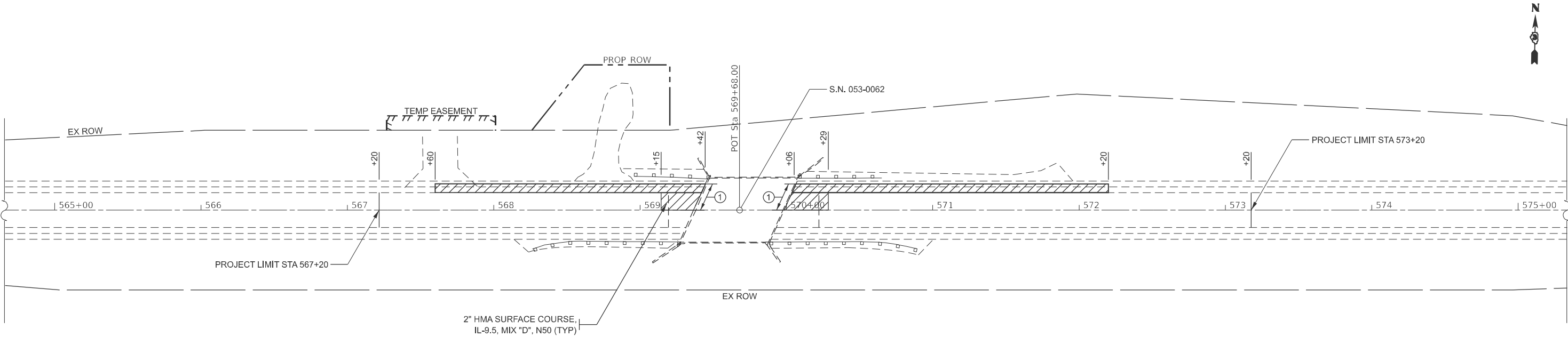
|                |                             |  |    |      |
|----------------|-----------------------------|--|----|------|
| <b>PROFILE</b> |                             |  | BY | DATE |
|                | SURVEYED                    |  |    |      |
|                | PLOTTED                     |  |    |      |
| NOTE BOOK      | GRADES CHECKED              |  |    |      |
|                | B.M. NOTED                  |  |    |      |
| NO. _____      | STRUCTURE NOTATIONS CHECKED |  |    |      |



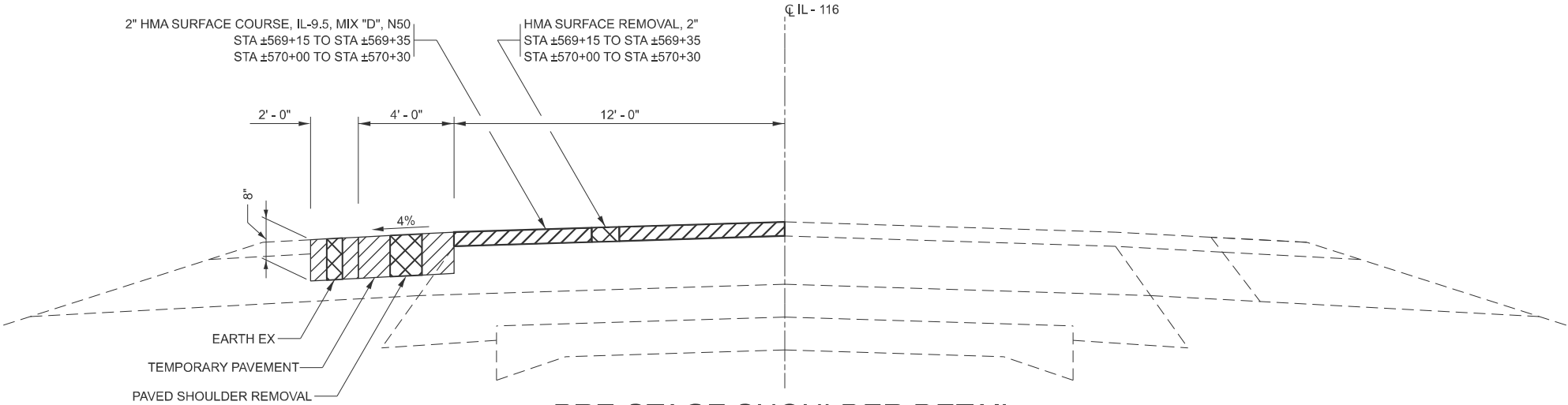
|                                                                                                 |  |           |  |      |                           |           |            |              |           |
|-------------------------------------------------------------------------------------------------|--|-----------|--|------|---------------------------|-----------|------------|--------------|-----------|
| <div style="text-align: center;"> <b>IL 116</b><br/> <b>PRELIMINARY PLAN AND PROFILE</b> </div> |  |           |  |      | F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|                                                                                                 |  |           |  |      | 673                       | (112BR)ES | LIVINGSTON | 65           | 19        |
| SCALE:                                                                                          |  |           |  |      | CONTRACT NO. 66L79        |           |            |              |           |
| SHEET                                                                                           |  | OF SHEETS |  | STA. | TO STA.                   |           |            |              |           |
|                                                                                                 |  |           |  |      | ILLINOIS FED. AID PROJECT |           |            |              |           |

NOTES:

- ① MATCH TO RAISED BRIDGE JOINT ACROSS THE LANE AND SHOULDER.



1 1/2" HMA SURFACE COURSE, IL-9.5, MIX "D", N50  
2 1/4" HMA BINDER COURSE, IL-19.0, N50



PRE-STAGE SHOULDER DETAIL

STA 567+20 TO STA 569+42 LT  
STA 570+07 TO STA 573+20 LT

NOT TO SCALE

MODEL: Default  
FILE NAME: c:\p\work\p\work\carminsa\1032499\68179-TRAFFIC CONTROL & PROTECTION.dgn

|           |                    |          |   |         |   |
|-----------|--------------------|----------|---|---------|---|
| USER NAME | = stephenie.carmin | DESIGNED | - | REVISED | - |
|           |                    | DRAWN    | - | REVISED | - |
|           |                    | CHECKED  | - | REVISED | - |
| PLOT DATE | = 8/21/2024        | DATE     | - | REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRE-STAGE SHOULDER DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P.<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|-----------|------------|-----------------|--------------|
| 673                       | (112BR)BR | LIVINGSTON | 65              | 20           |
| CONTRACT NO. 66L79        |           |            |                 |              |
| ILLINOIS FED. AID PROJECT |           |            |                 |              |

- THIS DOCUMENT IS TO BE SUPPLEMENTAL TO AND, NOT A REPLACEMENT OF STANDARD 701321.



**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

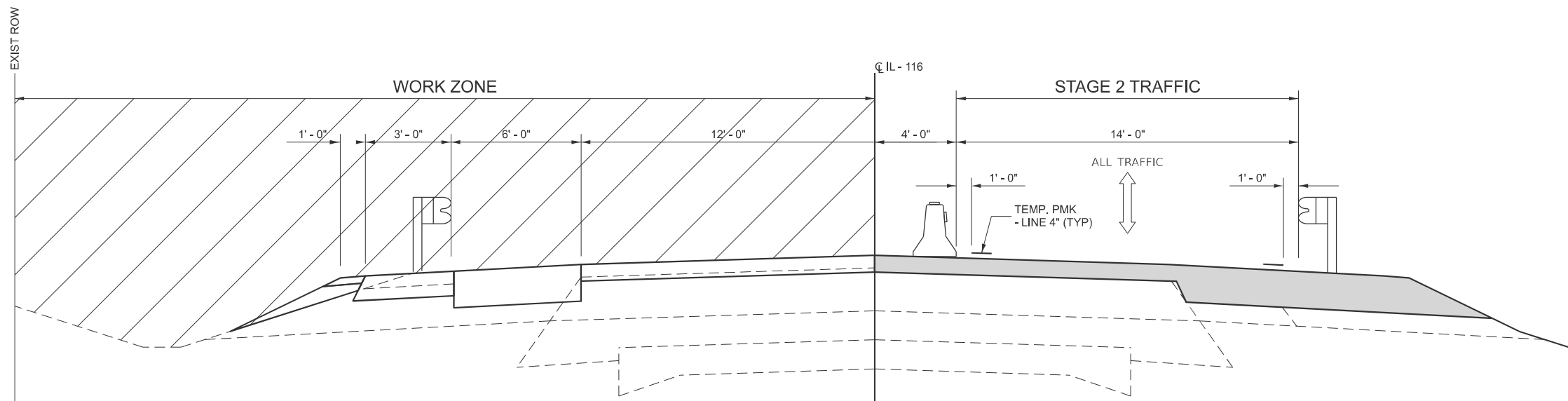
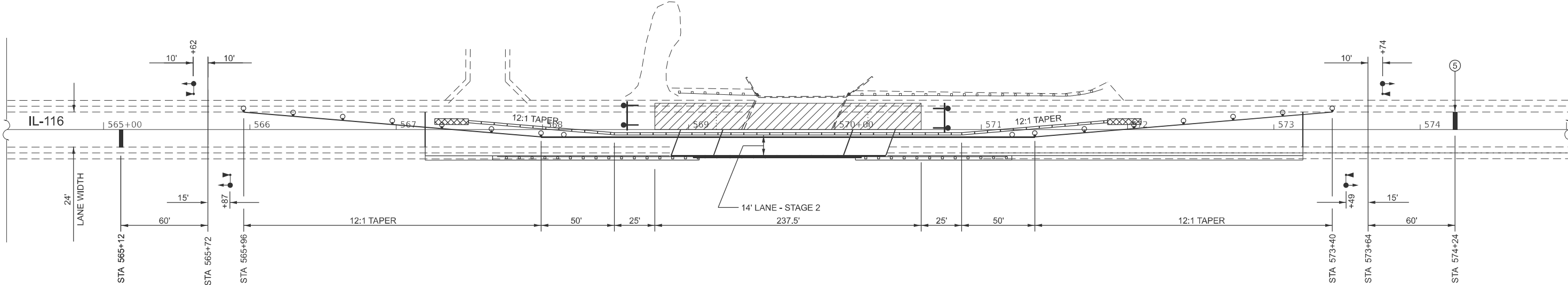
|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

|                                                                                       |                                                               |                                                                                       |                                                                       |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|  | TRAFFIC CONTROL DRUM                                          |  | TEMPORARY CONCRETE BARRIER                                            |
|  | TRAFFIC CONTROL DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT |  | TEMPORARY IMPACT ATTENUATOR<br>(NON-REDIRECTIVE, NARROW) TEST LEVEL 3 |
|  | TYPE III BARRICADES WITH FLASHING LIGHTS.                     |  | WORKZONE                                                              |
|  | TRAFFIC SIGNAL                                                |  | WORK COMPLETED IN PREVIOUS STAGE                                      |
|  | MICROWAVE SENSOR                                              |                                                                                       |                                                                       |

|               |           |                    |                 |              |
|---------------|-----------|--------------------|-----------------|--------------|
| F.A.P<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673           | (112BR)BR | LIVINGSTON         | 65              | 21           |
|               |           | CONTRACT NO. 66L79 |                 |              |
|               | ILLINOIS  | FED. AID PROJECT   |                 |              |

MODEL: Default  
FILE NAME: c:\pw\_work\pidatl\zagarj\td1008618\66L79-TRAFFIC\_CONTROL\_&\_PROTECTION.dgn

NOTES:  
• THIS DOCUMENT IS TO BE SUPPLEMENTAL TO AND, NOT A REPLACEMENT OF STANDARD 701321.



STAGE 2

STA 567+20 TO STA 573+20

NOT TO SCALE

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ⚡ TYPE III BARRICADES WITH FLASHING LIGHTS.
- ◀● TRAFFIC SIGNAL
- ▼ MICROWAVE SENSOR
- TEMPORARY CONCRETE BARRIER
- ▨ TEMPORARY IMPACT ATTENUATOR (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- ▨ WORKZONE
- WORK COMPLETED IN PREVIOUS STAGE

MODEL: Default  
FILE NAME: c:\p\work\pwt\tdt\zagark\1008618\66L79-TRAFFIC\_CONTROL\_&\_PROTECTION.dgn

|  |                          |            |           |
|--|--------------------------|------------|-----------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
|  |                          | DRAWN -    | REVISED - |
|  |                          | CHECKED -  | REVISED - |
|  | PLOT DATE = 8/12/2024    | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

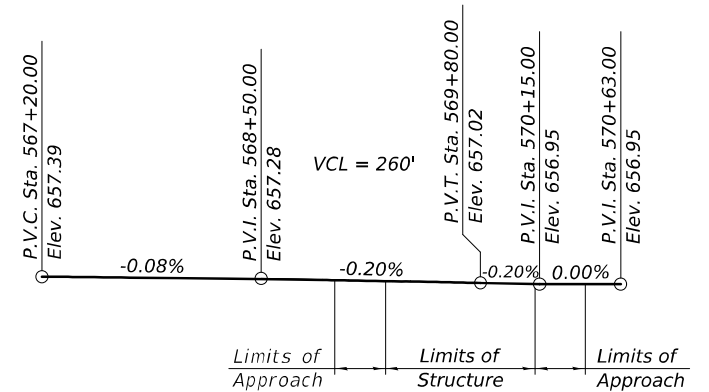
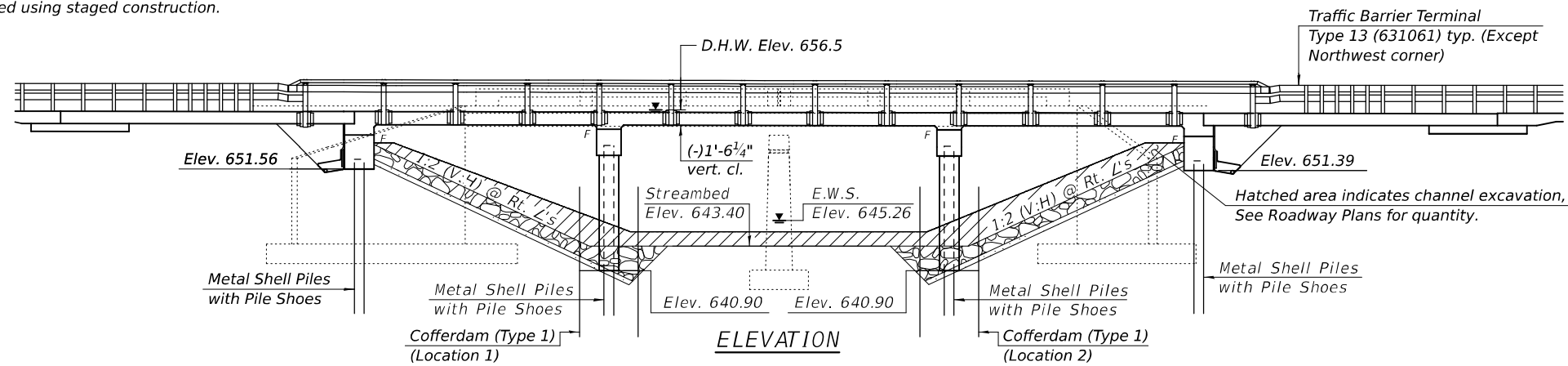
STAGE 2 TRAFFIC CONTROL & PROTECTION

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)BR | LIVINGSTON | 65           | 22        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |



*No Salvage.*



PROFILE GRADE - IL. RTE. 116  
(Along C of Roadway)

***DESIGN SPECIFICATIONS***  
2020 AASHTO LRFD Bridge Design  
Specifications, 9th Edition

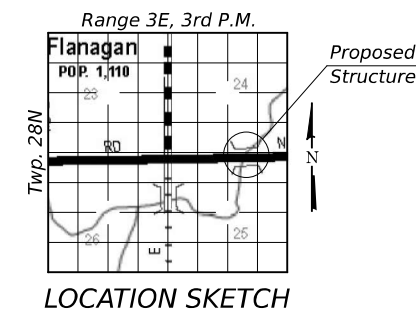
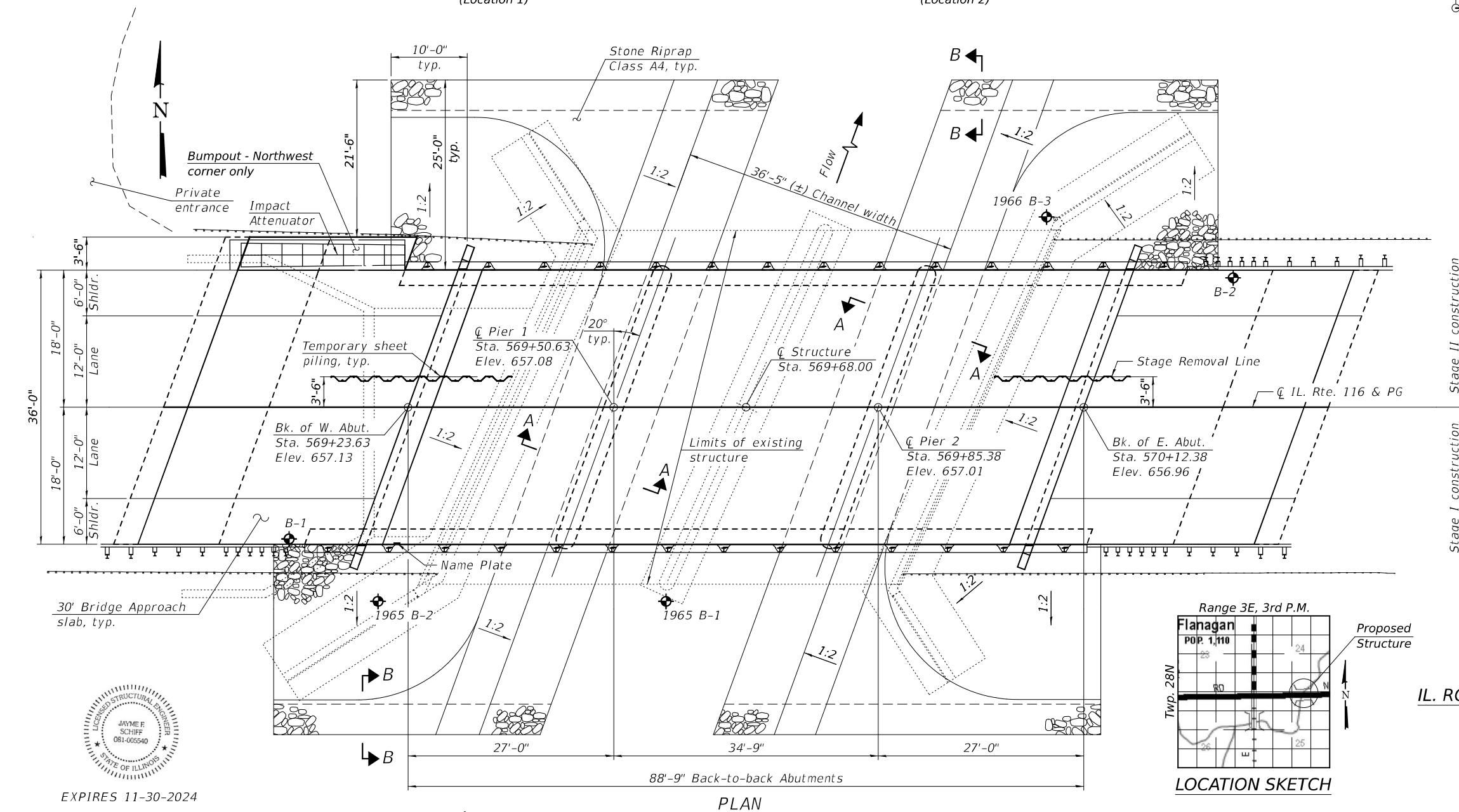
LOADING HL-93  
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES  
FIELD UNITS

$f'_c = 3,500 \text{ psi}$   
 $f'_c = 4,000 \text{ psi}$  (Superstructure)  
 $f_y = 60,000 \text{ psi}$  (Reinforcement)

## SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.078g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.133g  
Soil Site Class = C



GENERAL PLAN & ELEVATION  
IL. ROUTE 116 OVER OVER SCATTERING POINT CREEK  
F.A.P. ROUTE 673 - SECTION (112BR)ES  
LIVINGSTON COUNTY  
STATION 569+68.00  
STRUCTURE NO. 053-0194

MODEL: 0530194+66L79+001  
FILE NAME: pwr:\jldot-pwr\beniley.com:PWIDOT\Documents\DOT O ces\Bureau of Bridges and Structures\OBM Projects\0530194\CADDData\Bridge\0530194+66L79-Design.dgn

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |
|----------|
| EXAMINED |
| PASSED   |

Mark Shaffer  
ENGINEER OF BRIDGE DESIGN

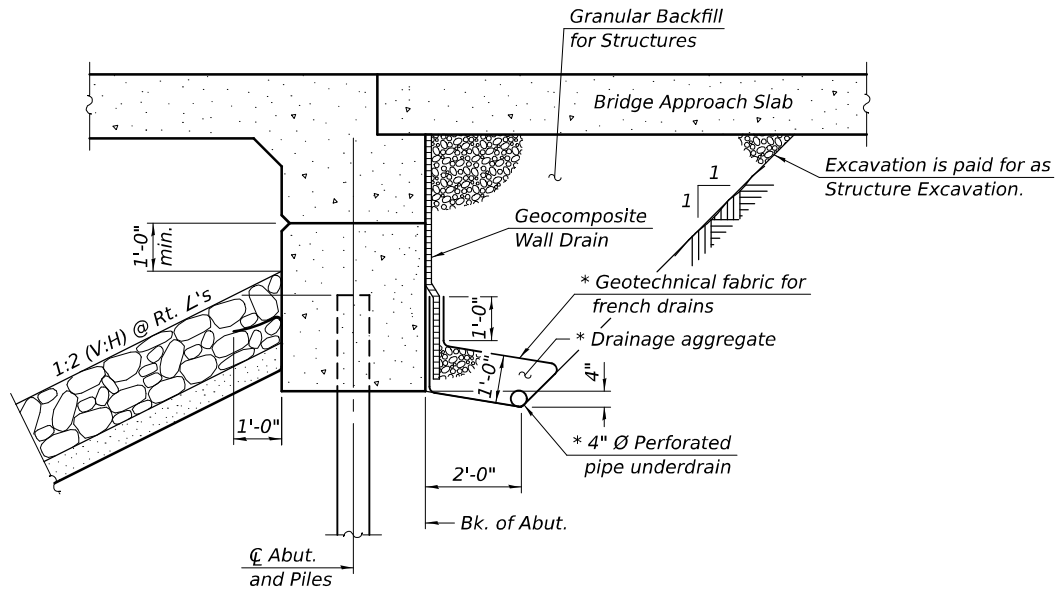
Jayne F. Schiff  
ENGINEER OF BRIDGES AND STRUCTURES

|         |   |           |
|---------|---|-----------|
| DATE    | - | 10/4/2024 |
| REVISED | - |           |
| REVISED | - |           |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET 1 OF 29 SHEETS

|                |           |                    |                 |              |
|----------------|-----------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673            | (112BR)ES | LIVINGSTON         | 65              | 23           |
|                |           | CONTRACT NO. 66L79 |                 |              |
| ILLINOIS       |           | FED. AID PROJECT   |                 |              |



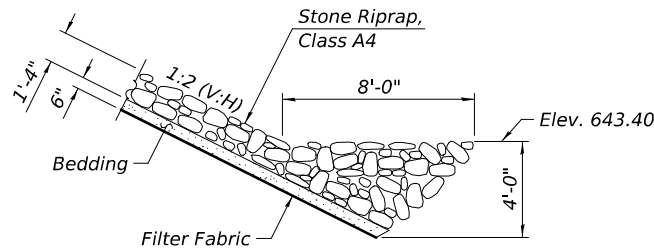
SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. at Rt. L's)

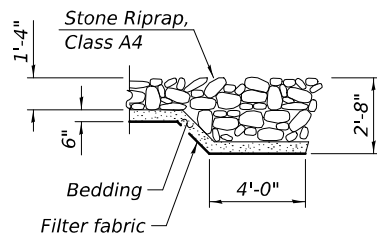
\* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A



SECTION B-B

DESIGN SCOUR ELEVATION TABLE

| Event / Limit State | Design Scour Elevations (ft.) |        |        |          | Item 113 |
|---------------------|-------------------------------|--------|--------|----------|----------|
|                     | W. Abut.                      | Pier 1 | Pier 2 | E. Abut. |          |
| Q100                | 651.56                        | 638.40 | 638.40 | 651.39   | 8        |
| Q200                | 651.56                        | 638.30 | 638.30 | 651.39   |          |
| Design              | 651.56                        | 638.40 | 638.40 | 651.39   |          |
| Check               | 651.56                        | 638.30 | 638.30 | 651.39   |          |

WATERWAY INFORMATION

| Drainage Area = 20.5 |           | Existing Overtopping Elev. 656.88 @ 570+20<br>Proposed Overtopping Elev. 656.92 @ 574+70 |             |       |             |            |       |               |       |
|----------------------|-----------|------------------------------------------------------------------------------------------|-------------|-------|-------------|------------|-------|---------------|-------|
| Flood                | Freq. Yr. | Q C.F.S.                                                                                 | Opening Ft² |       | Nat. H.W.E. | Head - Ft. |       | Headwater El. |       |
|                      |           |                                                                                          | Exist.      | Prop. |             | Exist.     | Prop. | Exist.        | Prop. |
| Ten-Year             | 10        | 2,460                                                                                    | 554         | 649   | 655.2       | 0.8        | 0.6   | 656.0         | 655.8 |
| Overtop Existing     | 28        | 3,440                                                                                    | 554         | -     | 656.1       | 1.8        | -     | 657.9         | -     |
| Overtop Proposed     | 36        | 3,690                                                                                    | -           | 649   | 656.3       | -          | 1.2   | -             | 657.5 |
| Design               | 50        | 3,970                                                                                    | 554         | 649   | 656.5       | 1.9        | 1.4   | 658.3         | 657.9 |
| Base                 | 100       | 4,650                                                                                    | 554         | 649   | 656.9       | 1.9        | 1.5   | 658.9         | 658.4 |
| Scour Check          | 200       | 5,360                                                                                    | 554         | 649   | 657.4       | 2.0        | 1.2   | 659.4         | 658.6 |
| Max. Calc.           | 500       | 6,300                                                                                    | 554         | 649   | 658.0       | 1.2        | 0.9   | 659.2         | 658.9 |

10 year velocity through existing bridge = 4.7 ft/s  
10 year velocity through proposed bridge = 3.8 ft/s

STA. 569+68.00  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 673 SEC. (112BR)ES  
LOADING HL-93  
STR. NO. 053-0194

NAME PLATE

See Std. 515001

INDEX OF SHEETS

- General Plan & Elevation
- General Data
- Stage Construction Details
- Temporary Sheet Piling
- Temporary Concrete Barrier
- Top of Slab Elevations
- Top of Approach Slab Elevations
- Superstructure
- Superstructure Details
- Bridge Approach Slab Details
- Steel Railing, Type IL-OH
- West Abutment
- East Abutment
- Abutment Details
- Piers
- Pier Details
- Metal Shell Pile Details
- Bar Splicer Details
- Soil Boring Logs

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.  
The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.  
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.  
The existing bearings contain lead plates. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.  
The Contractor is advised that the existing concrete superstructure is a continuous structure and removal must be done in a proper sequence, possibly with falsework support. The sequence of removal and the use of any required falsework is the responsibility of the Contractor.

TOTAL BILL OF MATERIAL

| ITEM                                      | UNIT    | SUPER  | SUB   | TOTAL  |
|-------------------------------------------|---------|--------|-------|--------|
| Stone Riprap, Class A4                    | Sq. Yd. |        | 776   | 776    |
| Filter Fabric                             | Sq. Yd. |        | 776   | 776    |
| Removal of Existing Structures            | Each    | 1      |       | 1      |
| Structure Excavation                      | Cu. Yd. |        | 112   | 112    |
| Cofferdam Excavation                      | Cu. Yd. |        | 132   | 132    |
| Cofferdam (Type 1) (Location - 1)         | Each    |        | 1     | 1      |
| Cofferdam (Type 1) (Location - 2)         | Each    |        | 1     | 1      |
| Concrete Structures                       | Cu. Yd. |        | 147.4 | 147.4  |
| Concrete Superstructure                   | Cu. Yd. | 169.2  |       | 169.2  |
| Bridge Deck Grooving                      | Sq. Yd. | 554    |       | 554    |
| Protective Coat                           | Sq. Yd. | 595    |       | 595    |
| Concrete Superstructure (Approach Slab)   | Cu. Yd. |        | 105.4 | 105.4  |
| Reinforcement Bars, Epoxy Coated          | Pound   | 101360 | 12520 | 113880 |
| Bar Splicers                              | Each    | 561    | 162   | 723    |
| Steel Railing, Type IL-OH                 | Foot    | 225    |       | 225    |
| Furnishing Metal Shell Piles 14" x 0.312" | Foot    |        | 670   | 670    |
| Driving Piles                             | Foot    |        | 670   | 670    |
| Test Pile Metal Shells                    | Each    |        | 4     | 4      |
| Pile Shoes                                | Each    |        | 24    | 24     |
| Name Plates                               | Each    | 1      |       | 1      |
| Temporary Sheet Piling                    | Sq. Ft. |        | 509   | 509    |
| Granular Backfill for Structures          | Cu. Yd. |        | 55    | 55     |
| Geocomposite Wall Drain                   | Sq. Yd. |        | 37    | 37     |
| Pipe Underdrains for Structures 4"        | Foot    |        | 123   | 123    |

MODEL: 0530194+66L79-002  
FILE NAME: pw://lido-pw.bentley.com:FWIDOT/Documents/IDOT\_O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

|                              |          |
|------------------------------|----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED |
| CHECKED - TIFFANY L. ADAMS   | PASSED   |
| DRAWN - DENNIS A. POP        |          |
| CHECKED - R.P.N. / T.L.A.    |          |

|                                    |                  |
|------------------------------------|------------------|
| ENGINEER OF BRIDGE DESIGN          | DATE - 10/4/2024 |
| ENGINEER OF BRIDGES AND STRUCTURES | REVISED -        |
|                                    | REVISED -        |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
STRUCTURE NO. 053-0194

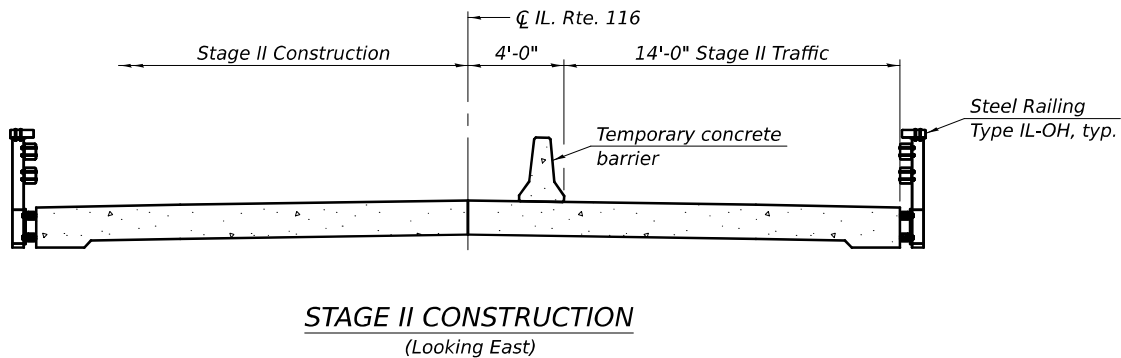
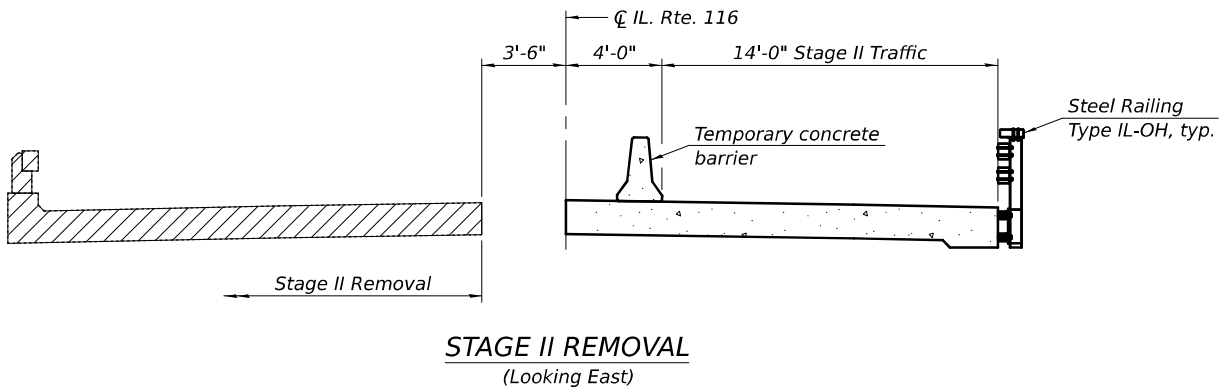
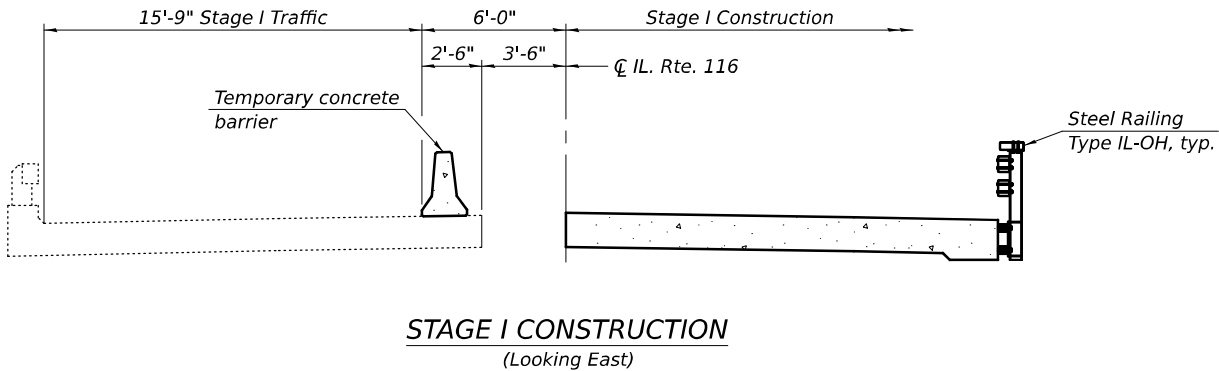
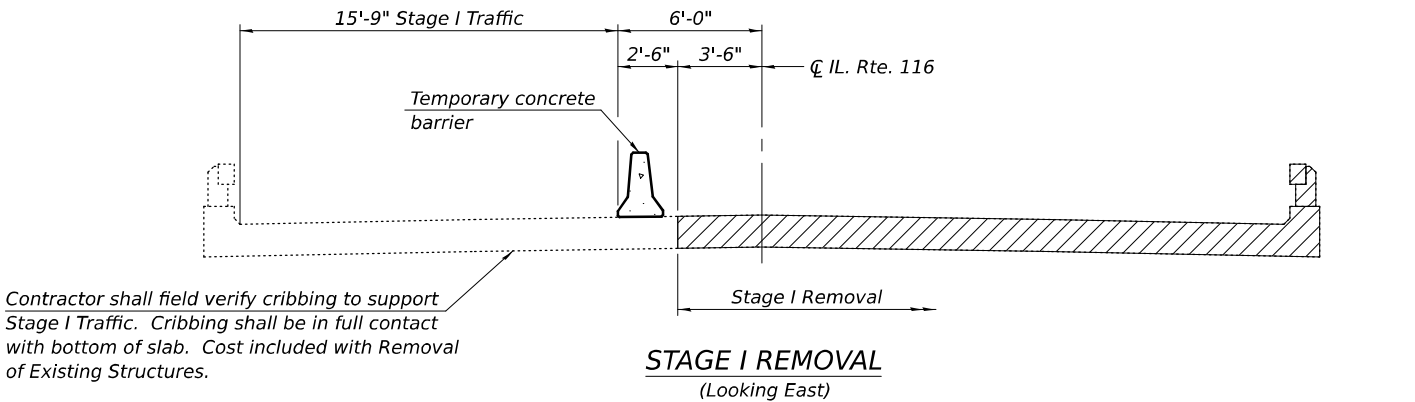
SHEET 2 OF 29 SHEETS

| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS     | SHEET NO. |
|--------------------|-----------|------------|------------------|-----------|
| 673                | (112BR)ES | LIVINGSTON | 65               | 24        |
| CONTRACT NO. 66L79 |           |            |                  |           |
|                    |           | ILLINOIS   | FED. AID PROJECT |           |

10/7/2024 10:52:37 AM



MODEL: 0530194-66L79-003  
FILE NAME: pw://jldel-pw.bentley.com:FWIDOT/Documents/IDOT\_O\_ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn



Notes:  
Hatched area indicates Removal of Existing Structures.  
For quantity of Temporary Concrete Barriers, see Roadway Plans. See sheet 5 of 29 for details.

|          |   |                   |
|----------|---|-------------------|
| DESIGNED | - | RYAN P. NEGANGARD |
| CHECKED  | - | TIFFANY L. ADAMS  |
| DRAWN    | - | DENNIS A. POP     |
| CHECKED  | - | R.P.N. / T.L.A.   |

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| EXAMINED |  |
| PASSED   |  |

|         |   |           |
|---------|---|-----------|
| DATE    | - | 10/4/2024 |
| REVISED | - |           |
| REVISED | - |           |

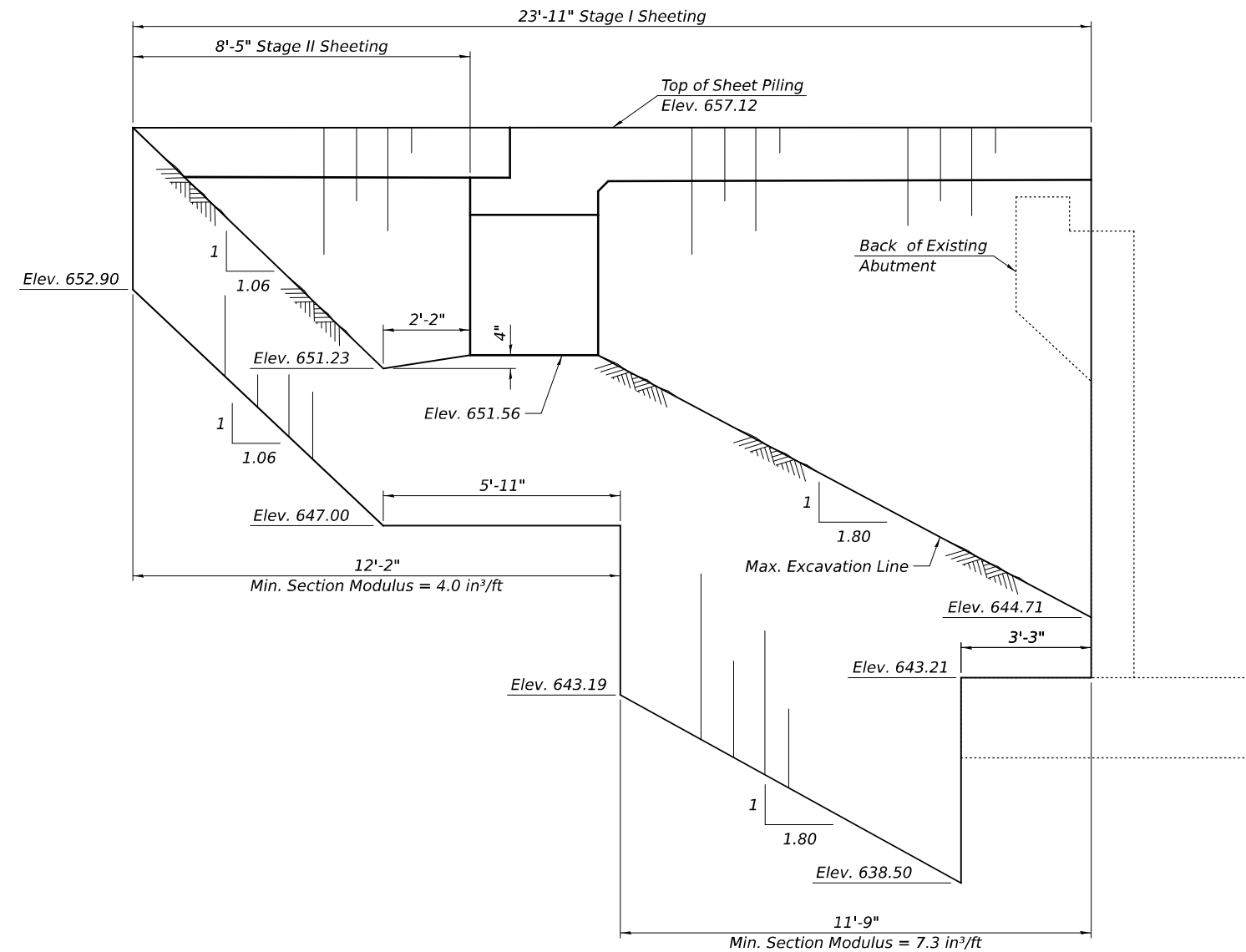
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 053-0194

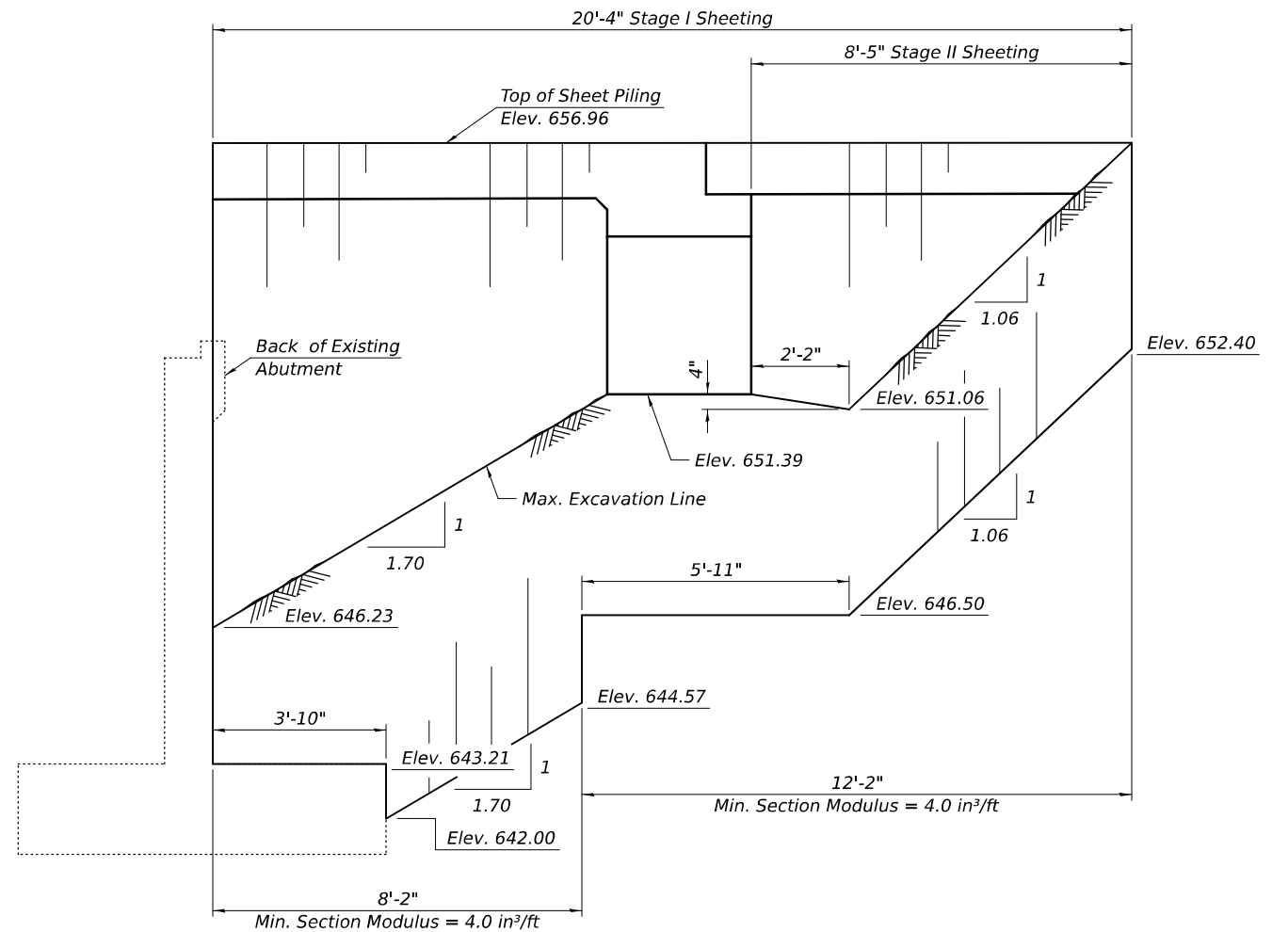
SHEET 3 OF 29 SHEETS

| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS     | SHEET NO. |
|--------------------|-----------|------------|------------------|-----------|
| 673                | (112BR)ES | LIVINGSTON | 65               | 25        |
| CONTRACT NO. 66L79 |           |            |                  |           |
|                    |           | ILLINOIS   | FED. AID PROJECT |           |

MODEL: 0530194-66L79-004  
FILE NAME: pw:///lido-gw-bentley.com:PWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/IDOT O ces/0530194-66L79-Design.dgn



**TEMPORARY SHEET PILING**  
(West Abutment - Looking North)



**TEMPORARY SHEET PILING**  
(East Abutment - Looking North)

Notes:  
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.  
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

|          |   |                   |
|----------|---|-------------------|
| DESIGNED | - | RYAN P. NEGANGARD |
| CHECKED  | - | TIFFANY L. ADAMS  |
| DRAWN    | - | DENNIS A. POP     |
| CHECKED  | - | R.P.N. / T.L.A.   |

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| EXAMINED |  |
| PASSED   |  |

|         |   |           |
|---------|---|-----------|
| DATE    | - | 10/4/2024 |
| REVISED | - |           |
| REVISED | - |           |

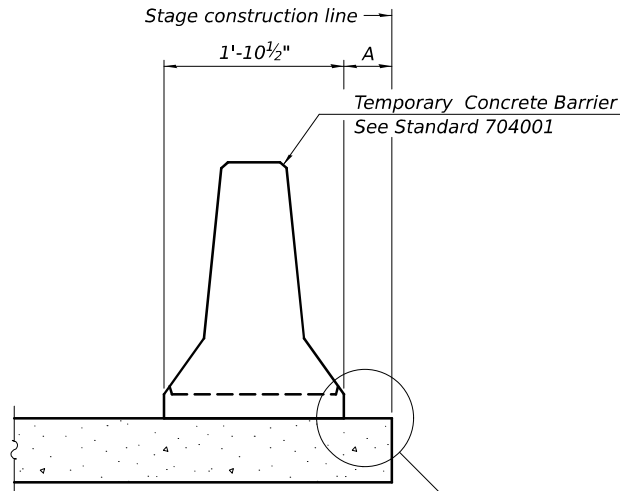
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHEET PILING  
STRUCTURE NO. 053-0194

SHEET 4 OF 29 SHEETS

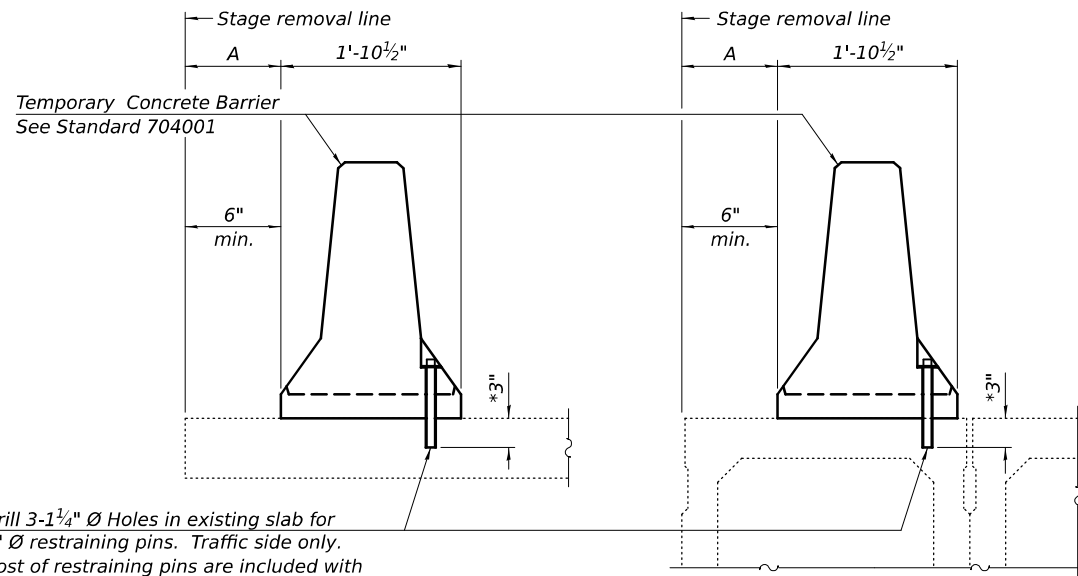
| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 26        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

MODEL: 0530194-66L79-005  
FILE NAME: p:\w\l\lido-pw-bentley.com\FWIDOT\Documents\OBM Projects\0530194\CADData\Bridge\0530194-66L79-Design.dgn



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

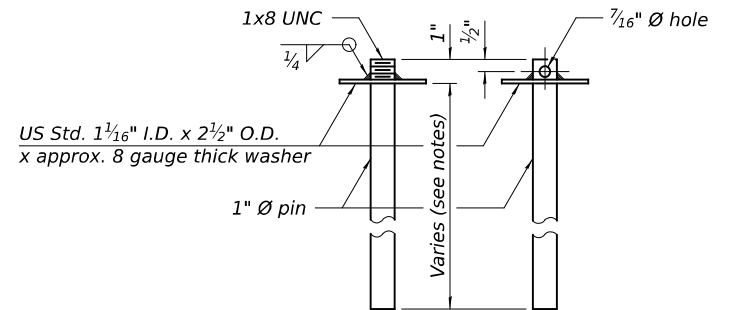


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

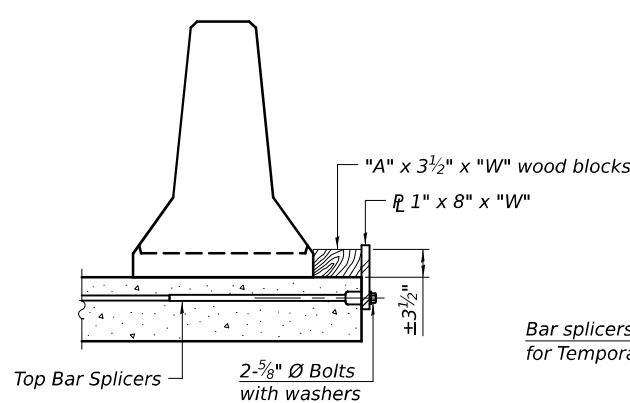
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

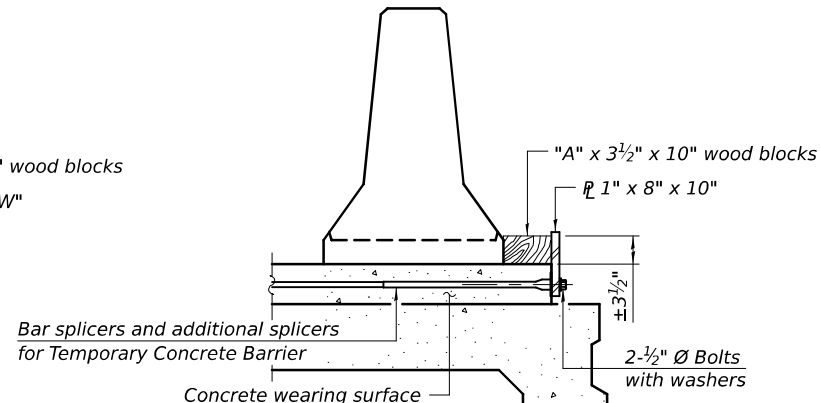


RESTRAINING PIN

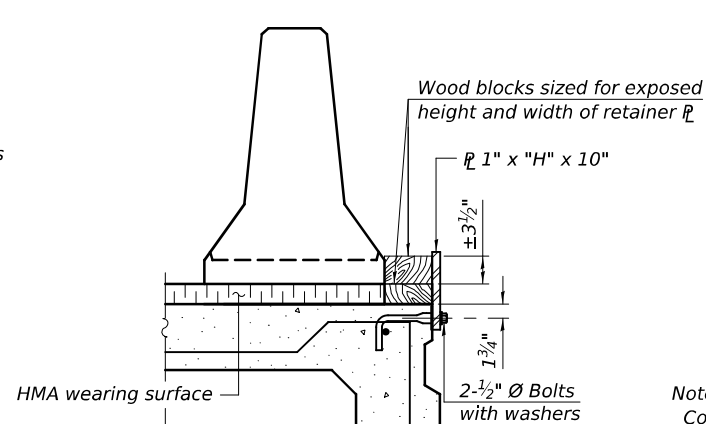
SECTIONS THRU SLAB OR DECK BEAM



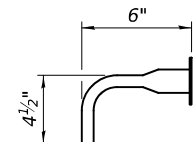
DETAIL I



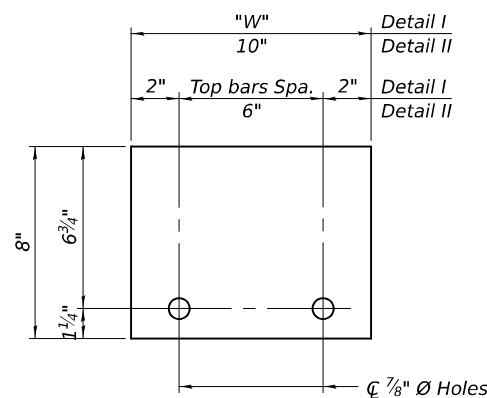
DETAIL II



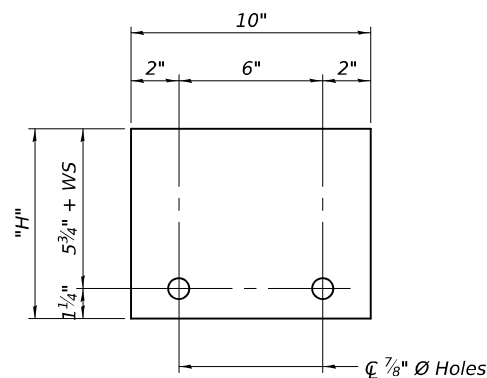
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"  
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"  
(Detail III)

Notes:  
Cost of retainer assembly is included with Temporary Concrete Barrier.  
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.  
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

|                      |     |
|----------------------|-----|
| NCHRP 350 Test Level | 3   |
| Railing Weight (plf) | 440 |

R-27

5-15-2023

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |                                    |           |           |
|----------|------------------------------------|-----------|-----------|
| EXAMINED |                                    | DATE -    | 10/4/2024 |
| PASSED   |                                    | REVISED - |           |
|          | ENGINEER OF BRIDGES AND STRUCTURES | REVISED - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 053-0194

SHEET 5 OF 29 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 27        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

10/7/2024 10:52:40 AM



**Note:**  
The Dead Load Deflections are negligible. The Dead Load Deflection Diagram is not shown.

|                              |                                    |                                                                                      |                  |                                                   |                                                  |                           |                                                                                      |                      |              |            |
|------------------------------|------------------------------------|--------------------------------------------------------------------------------------|------------------|---------------------------------------------------|--------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------|----------------------|--------------|------------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED                           |  | DATE - 10/4/2024 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | TOP OF SLAB ELEVATIONS<br>STRUCTURE NO. 053-0194 | F.A.P. RTE.               | SECTION                                                                              | COUNTY               | TOTAL SHEETS | SHEET NO.  |
| CHECKED - TIFFANY L. ADAMS   |                                    |                                                                                      |                  |                                                   |                                                  | PASSED                    |  | 673                  | (112BR)ES    | LIVINGSTON |
| DRAWN - DENNIS A. POP        | CONTRACT NO. 66L79                 |                                                                                      |                  |                                                   |                                                  |                           |                                                                                      |                      |              |            |
| CHECKED - R.P.N. / T.L.A.    | ENGINEER OF BRIDGES AND STRUCTURES | REVISED -                                                                            | REVISED -        |                                                   |                                                  |                           |                                                                                      | SHEET 6 OF 29 SHEETS |              |            |
|                              |                                    |                                                                                      |                  |                                                   |                                                  | ILLINOIS FED. AID PROJECT |                                                                                      |                      |              |            |

MODEL: 0530194+66L79-007  
FILE NAME: pw:///lido-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

NORTH EDGE OF SHOULDER

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| Bk. West Abutment | 569+30.18 | -18.00 | 656.81                             |
| ⌒ West Abutment   | 569+31.77 | -18.00 | 656.81                             |
| C                 | 569+41.77 | -18.00 | 656.79                             |
| D                 | 569+51.77 | -18.00 | 656.77                             |
| ⌒ Pier 1          | 569+57.18 | -18.00 | 656.76                             |
| E                 | 569+67.18 | -18.00 | 656.75                             |
| F                 | 569+77.18 | -18.00 | 656.73                             |
| ⌒ Pier 2          | 569+91.93 | -18.00 | 656.70                             |
| G                 | 570+01.93 | -18.00 | 656.68                             |
| H                 | 570+11.93 | -18.00 | 656.66                             |
| ⌒ East Abutment   | 570+17.33 | -18.00 | 656.65                             |
| Bk. East Abutment | 570+18.93 | -18.00 | 656.64                             |

NORTH EDGE OF ROADWAY

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| Bk. West Abutment | 569+27.99 | -12.00 | 656.94                             |
| ⌒ West Abutment   | 569+29.59 | -12.00 | 656.94                             |
| C                 | 569+39.59 | -12.00 | 656.92                             |
| D                 | 569+49.59 | -12.00 | 656.90                             |
| ⌒ Pier 1          | 569+54.99 | -12.00 | 656.89                             |
| E                 | 569+64.99 | -12.00 | 656.87                             |
| F                 | 569+74.99 | -12.00 | 656.85                             |
| ⌒ Pier 2          | 569+89.74 | -12.00 | 656.82                             |
| G                 | 569+99.74 | -12.00 | 656.80                             |
| H                 | 570+09.74 | -12.00 | 656.78                             |
| ⌒ East Abutment   | 570+15.15 | -12.00 | 656.77                             |
| Bk. East Abutment | 570+16.74 | -12.00 | 656.77                             |

⌒ ROADWAY, PG & STAGE CONSTRUCTION JOINT

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| Bk. West Abutment | 569+23.63 | 0.00   | 657.13                             |
| ⌒ West Abutment   | 569+25.22 | 0.00   | 657.12                             |
| C                 | 569+35.22 | 0.00   | 657.11                             |
| D                 | 569+45.22 | 0.00   | 657.09                             |
| ⌒ Pier 1          | 569+50.63 | 0.00   | 657.08                             |
| E                 | 569+60.63 | 0.00   | 657.06                             |
| F                 | 569+70.63 | 0.00   | 657.04                             |
| ⌒ Pier 2          | 569+85.38 | 0.00   | 657.01                             |
| G                 | 569+95.38 | 0.00   | 656.99                             |
| H                 | 570+05.38 | 0.00   | 656.97                             |
| ⌒ East Abutment   | 570+10.78 | 0.00   | 656.96                             |
| Bk. East Abutment | 570+12.38 | 0.00   | 656.96                             |

SOUTH EDGE OF ROADWAY

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| Bk. West Abutment | 569+19.26 | 12.00  | 656.95                             |
| ⌒ West Abutment   | 569+20.85 | 12.00  | 656.95                             |
| C                 | 569+30.85 | 12.00  | 656.93                             |
| D                 | 569+40.85 | 12.00  | 656.91                             |
| ⌒ Pier 1          | 569+46.26 | 12.00  | 656.90                             |
| E                 | 569+56.26 | 12.00  | 656.89                             |
| F                 | 569+66.26 | 12.00  | 656.87                             |
| ⌒ Pier 2          | 569+81.01 | 12.00  | 656.84                             |
| G                 | 569+91.01 | 12.00  | 656.82                             |
| H                 | 570+01.01 | 12.00  | 656.80                             |
| ⌒ East Abutment   | 570+06.41 | 12.00  | 656.79                             |
| Bk. East Abutment | 570+08.01 | 12.00  | 656.78                             |

SOUTH EDGE OF SHOULDER

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| Bk. West Abutment | 569+17.07 | 18.00  | 656.84                             |
| ⌒ West Abutment   | 569+18.67 | 18.00  | 656.83                             |
| C                 | 569+28.67 | 18.00  | 656.82                             |
| D                 | 569+38.67 | 18.00  | 656.80                             |
| ⌒ Pier 1          | 569+44.07 | 18.00  | 656.79                             |
| E                 | 569+54.07 | 18.00  | 656.77                             |
| F                 | 569+64.07 | 18.00  | 656.75                             |
| ⌒ Pier 2          | 569+78.82 | 18.00  | 656.72                             |
| G                 | 569+88.82 | 18.00  | 656.70                             |
| H                 | 569+98.82 | 18.00  | 656.68                             |
| ⌒ East Abutment   | 570+04.23 | 18.00  | 656.67                             |
| Bk. East Abutment | 570+05.82 | 18.00  | 656.67                             |

|                              |          |
|------------------------------|----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED |
| CHECKED - TIFFANY L. ADAMS   | PASSED   |
| DRAWN - DENNIS A. POP        |          |
| CHECKED - R.P.N. / T.L.A.    |          |

|                                                                                                                           |                  |
|---------------------------------------------------------------------------------------------------------------------------|------------------|
| <br>ENGINEER OF BRIDGE DESIGN          | DATE - 10/4/2024 |
| <br>ENGINEER OF BRIDGES AND STRUCTURES |                  |

|          |
|----------|
| REVISD - |
| REVISD - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 053-0194

SHEET 7 OF 29 SHEETS

|                |           |                    |                  |              |
|----------------|-----------|--------------------|------------------|--------------|
| F.A.P.<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 673            | (112BR)ES | LIVINGSTON         | 65               | 29           |
|                |           | CONTRACT NO. 66L79 |                  |              |
|                |           | ILLINOIS           | FED. AID PROJECT |              |

MODEL: 0530194-66L79-008  
FILE NAME: pw:///lido-gw-bentley.com:PWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

NORTH EDGE OF SHOULDER

| Location                 | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|--------------------------|-----------|--------|------------------------------------|
| W. End of W. Aprpr. Slab | 569+01.24 | -18.00 | 656.86                             |
| A                        | 569+11.24 | -18.00 | 656.85                             |
| B                        | 569+21.24 | -18.00 | 656.83                             |
| E. End of W. Aprpr. Slab | 569+31.24 | -18.00 | 656.81                             |

NORTH EDGE OF ROADWAY

| Location                 | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|--------------------------|-----------|--------|------------------------------------|
| W. End of W. Aprpr. Slab | 568+99.06 | -12.00 | 656.99                             |
| A                        | 569+09.06 | -12.00 | 656.97                             |
| B                        | 569+19.06 | -12.00 | 656.95                             |
| E. End of W. Aprpr. Slab | 569+29.06 | -12.00 | 656.94                             |

CL ROADWAY, PG & STAGE CONSTRUCTION JOINT

| Location                 | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|--------------------------|-----------|--------|------------------------------------|
| W. End of W. Aprpr. Slab | 568+94.69 | 0.00   | 657.17                             |
| A                        | 569+04.69 | 0.00   | 657.16                             |
| B                        | 569+14.69 | 0.00   | 657.14                             |
| E. End of W. Aprpr. Slab | 569+24.69 | 0.00   | 657.12                             |

SOUTH EDGE OF ROADWAY

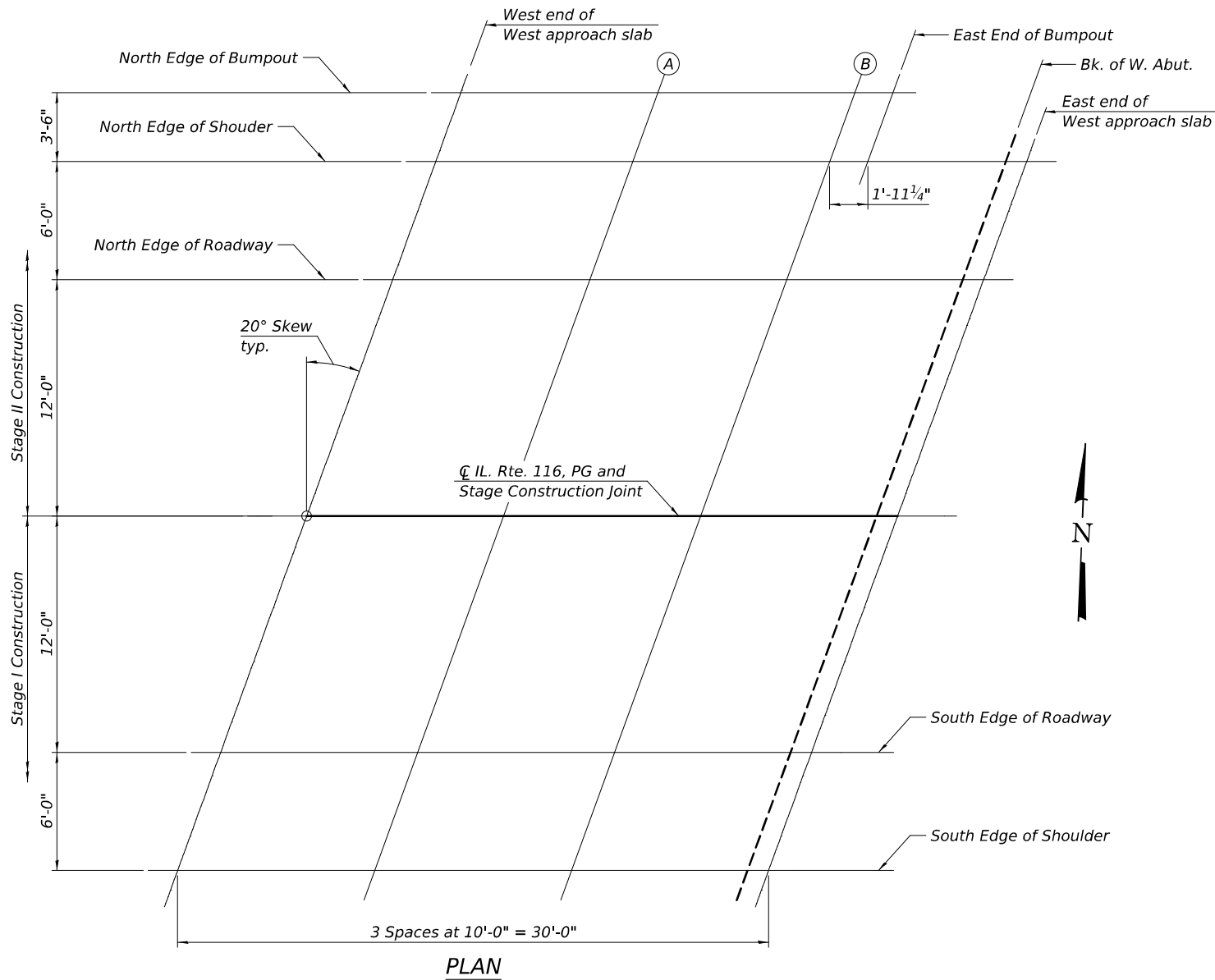
| Location                 | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|--------------------------|-----------|--------|------------------------------------|
| W. End of W. Aprpr. Slab | 568+90.32 | 12.00  | 657.00                             |
| A                        | 569+00.32 | 12.00  | 656.99                             |
| B                        | 569+10.32 | 12.00  | 656.97                             |
| E. End of W. Aprpr. Slab | 569+20.32 | 12.00  | 656.95                             |

SOUTH EDGE OF SHOULDER

| Location                 | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|--------------------------|-----------|--------|------------------------------------|
| W. End of W. Aprpr. Slab | 568+88.14 | 18.00  | 656.88                             |
| A                        | 568+98.14 | 18.00  | 656.87                             |
| B                        | 569+08.14 | 18.00  | 656.85                             |
| E. End of W. Aprpr. Slab | 569+18.14 | 18.00  | 656.84                             |

NORTH EDGE OF BUMPOUT

| Location          | Station   | Offset | Theoretical<br>Grade<br>Elevations |
|-------------------|-----------|--------|------------------------------------|
| W. End of Bumpout | 569+02.51 | -21.50 | 656.79                             |
| A                 | 569+12.51 | -21.50 | 656.77                             |
| B                 | 569+22.51 | -21.50 | 656.76                             |
| E. End of Bumpout | 569+24.45 | -21.50 | 656.75                             |



|                              |          |
|------------------------------|----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED |
| CHECKED - TIFFANY L. ADAMS   | PASSED   |
| DRAWN - DENNIS A. POP        |          |
| CHECKED - R.P.N. / T.L.A.    |          |

|                                    |
|------------------------------------|
| ENGINEER OF BRIDGE DESIGN          |
| ENGINEER OF BRIDGES AND STRUCTURES |

|                  |
|------------------|
| DATE - 10/4/2024 |
| REVISED -        |
| REVISED -        |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 053-0194

SHEET 8 OF 29 SHEETS

|                           |           |            |                 |              |
|---------------------------|-----------|------------|-----------------|--------------|
| F.A.P.<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673                       | (112BR)ES | LIVINGSTON | 65              | 30           |
| CONTRACT NO. 66L79        |           |            |                 |              |
| ILLINOIS FED. AID PROJECT |           |            |                 |              |



| <i>Location</i>                | <i>Station</i>   | <i>Offset</i> | <i>Theoretical<br/>Grade<br/>Elevations</i> |
|--------------------------------|------------------|---------------|---------------------------------------------|
| <i>W. End of E. Aprr. Slab</i> | <i>570+17.86</i> | <i>-18.00</i> | <i>656.65</i>                               |
| <i>I</i>                       | <i>570+27.86</i> | <i>-18.00</i> | <i>656.65</i>                               |
| <i>J</i>                       | <i>570+37.86</i> | <i>-18.00</i> | <i>656.65</i>                               |
| <i>E. End of E. Aprr. Slab</i> | <i>570+47.86</i> | <i>-18.00</i> | <i>656.65</i>                               |

| <i>Location</i>                | <i>Station</i>   | <i>Offset</i> | <i>Theoretical<br/>Grade<br/>Elevations</i> |
|--------------------------------|------------------|---------------|---------------------------------------------|
| <i>W. End of E. Appr. Slab</i> | <i>570+15.68</i> | <i>-12.00</i> | <i>656.77</i>                               |
| <i>I</i>                       | <i>570+25.68</i> | <i>-12.00</i> | <i>656.77</i>                               |
| <i>J</i>                       | <i>570+35.68</i> | <i>-12.00</i> | <i>656.77</i>                               |
| <i>E. End of E. Appr. Slab</i> | <i>570+45.68</i> | <i>-12.00</i> | <i>656.77</i>                               |

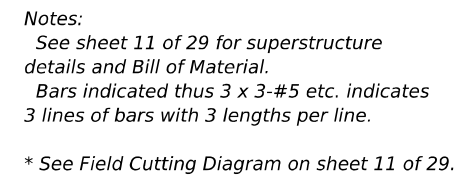
| <i>Location</i>                | <i>Station</i>   | <i>Offset</i> | <i>Theoretical<br/>Grade<br/>Elevations</i> |
|--------------------------------|------------------|---------------|---------------------------------------------|
| <i>W. End of E. Appr. Slab</i> | <i>570+11.31</i> | <i>0.00</i>   | <i>656.96</i>                               |
| <i>I</i>                       | <i>570+21.31</i> | <i>0.00</i>   | <i>656.95</i>                               |
| <i>J</i>                       | <i>570+31.31</i> | <i>0.00</i>   | <i>656.95</i>                               |
| <i>E. End of E. Appr. Slab</i> | <i>570+41.31</i> | <i>0.00</i>   | <i>656.95</i>                               |

| <i>Location</i>                | <i>Station</i>   | <i>Offset</i> | <i>Theoretical<br/>Grade<br/>Elevations</i> |
|--------------------------------|------------------|---------------|---------------------------------------------|
| <i>W. End of E. Appr. Slab</i> | <i>570+06.94</i> | <i>12.00</i>  | <i>656.79</i>                               |
| <i>I</i>                       | <i>570+16.94</i> | <i>12.00</i>  | <i>656.77</i>                               |
| <i>J</i>                       | <i>570+26.94</i> | <i>12.00</i>  | <i>656.77</i>                               |
| <i>E. End of E. Appr. Slab</i> | <i>570+36.94</i> | <i>12.00</i>  | <i>656.77</i>                               |

| <i>Location</i>                | <i>Station</i>   | <i>Offset</i> | <i>Theoretical<br/>Grade<br/>Elevations</i> |
|--------------------------------|------------------|---------------|---------------------------------------------|
| <i>W. End of E. Appr. Slab</i> | <i>570+04.76</i> | <i>18.00</i>  | <i>656.67</i>                               |
| <i>I</i>                       | <i>570+14.76</i> | <i>18.00</i>  | <i>656.65</i>                               |
| <i>J</i>                       | <i>570+24.76</i> | <i>18.00</i>  | <i>656.65</i>                               |
| <i>E. End of E. Appr. Slab</i> | <i>570+34.76</i> | <i>18.00</i>  | <i>656.65</i>                               |



|                              |                                                                                                                                                                                                                                                                   |                  |                                                   |                                                                |                      |           |            |              |           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------|----------------------------------------------------------------|----------------------|-----------|------------|--------------|-----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED <br>ENGINEER OF BRIDGE DESIGN<br>PASSED <br>ENGINEER OF BRIDGES AND STRUCTURES | DATE - 10/4/2024 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | TOP OF EAST APPROACH SLAB ELEVATIONS<br>STRUCTURE NO. 053-0194 | F.A.P. RTE.          | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
| CHECKED - TIFFANY L. ADAMS   |                                                                                                                                                                                                                                                                   | REVISED -        |                                                   |                                                                | 673                  | (112BR)ES | LIVINGSTON | 65           | 31        |
| DRAWN - DENNIS A. POP        |                                                                                                                                                                                                                                                                   | REVISED -        |                                                   |                                                                | CONTRACT NO. 66L79   |           |            |              |           |
| CHECKED - R.P.N. / T.L.A.    |                                                                                                                                                                                                                                                                   | REVISED -        |                                                   |                                                                | SHEET 9 OF 29 SHEETS |           |            |              |           |
| 10/7/2024 10:52:44 AM        |                                                                                                                                                                                                                                                                   |                  | ILLINOIS FED. AID PROJECT                         |                                                                |                      |           |            |              |           |



MINIMUM BAR LAP  
#5 b7(E) bar = 3'-0"

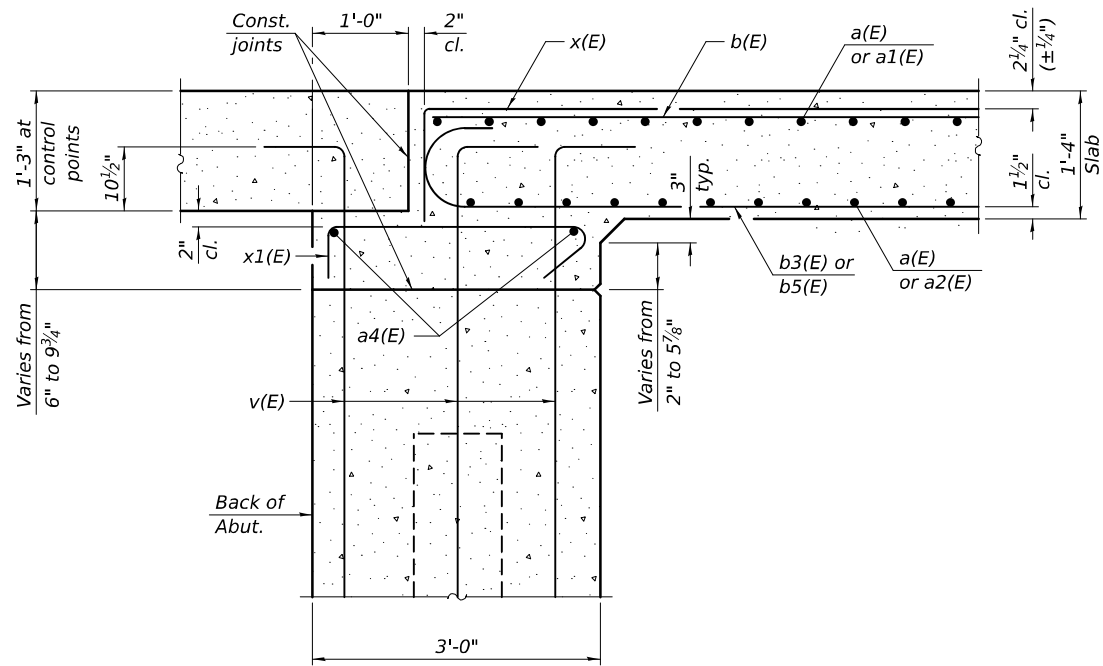


|  |                                                                                                 |
|--|-------------------------------------------------------------------------------------------------|
|  | <p align="center"><b>SUPERSTRUCTURE</b></p> <p align="center"><b>STRUCTURE NO. 053-0194</b></p> |
|  | <p align="center">SHEET 10 OF 29 SHEETS</p>                                                     |

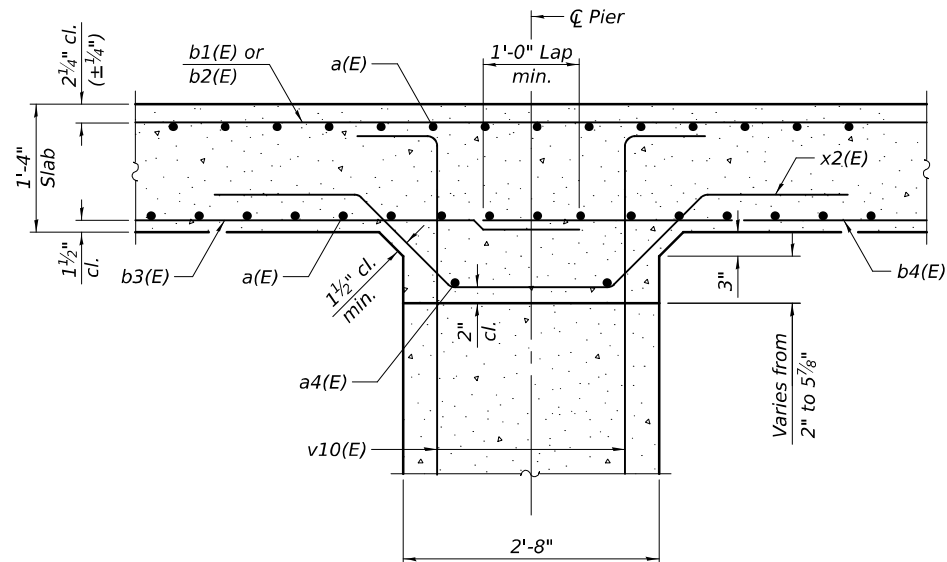
|                |           |                    |                 |              |
|----------------|-----------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673            | (112BR)ES | LIVINGSTON         | 65              | 32           |
|                |           | CONTRACT NO. 66L79 |                 |              |
| ILLINOIS       |           | FED. AID PROJECT   |                 |              |



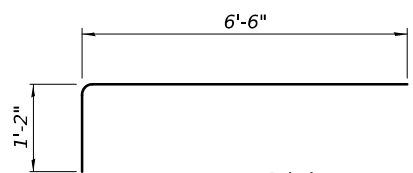
MODEL: 0530194-66L79-011  
FILE NAME: pw:///lido-gwbentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn  
10/7/2024 10:52:45 AM



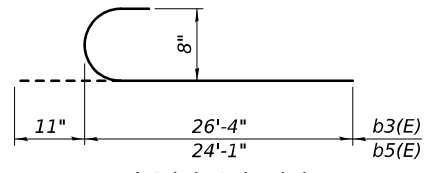
SECTION A-A



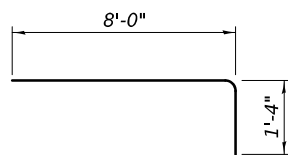
SECTION B-B



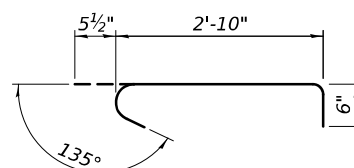
BAR a3(E)



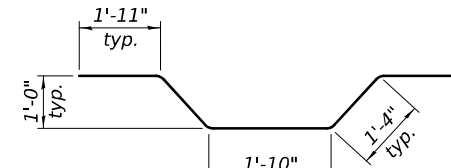
BAR b3(E) & b5(E)



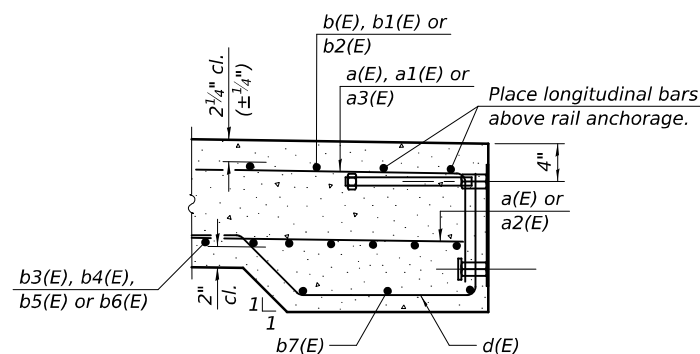
BAR x(E)



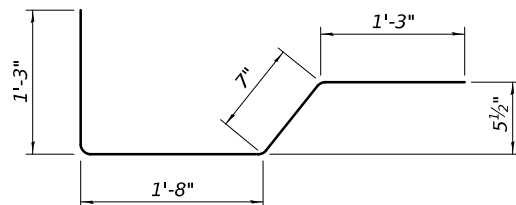
BAR x1(E)



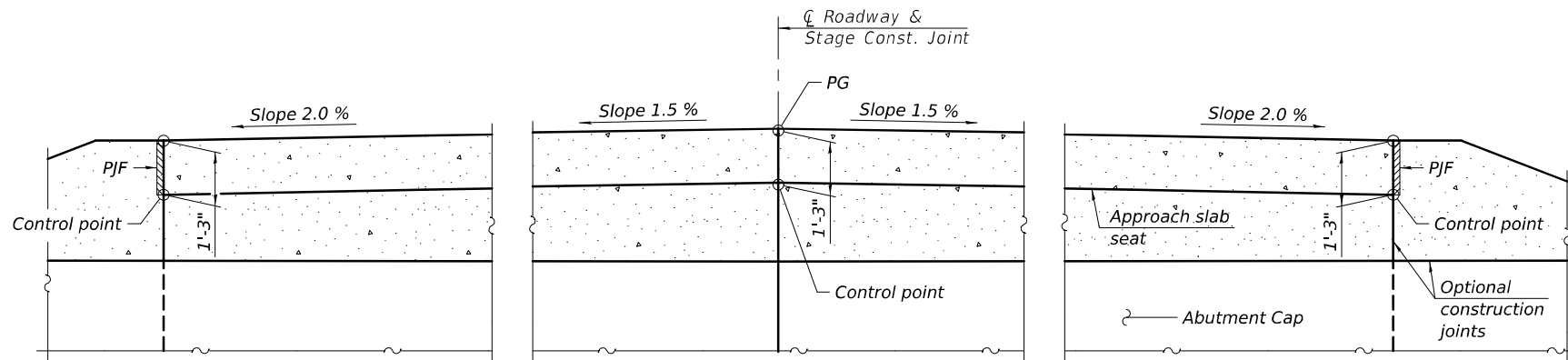
BAR x2(E)



SECTION C-C

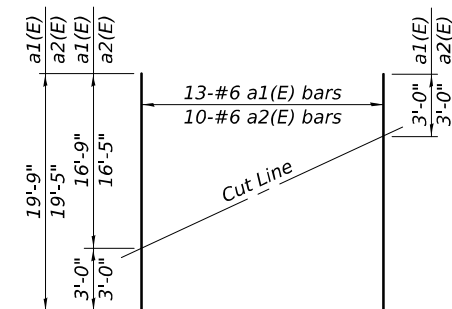


BAR d(E)



APPROACH SLAB SEAT

Notes:  
See sheet 14 of 29 for P/JF details.  
The approach slab seat shall have a constant slope determined from the control points shown.



FIELD CUTTING DIAGRAM

Order a1(E) and a2(E) bars full length.  
Cut as shown and use remainder of bars in opposite end of deck.

SUPERSTRUCTURE  
BILL OF MATERIAL

| Bar                              | No. | Size | Length  | Shape  |
|----------------------------------|-----|------|---------|--------|
| a(E)                             | 684 | #6   | 17'-8"  | —      |
| a1(E)                            | 26  | #6   | 19'-9"  | —      |
| a2(E)                            | 20  | #6   | 19'-5"  | —      |
| a3(E)                            | 406 | #5   | 7'-8"   | └┐     |
| a4(E)                            | 16  | #5   | 18'-10" | —      |
| b(E)                             | 88  | #5   | 7'-10"  | —      |
| b1(E)                            | 88  | #8   | 41'-5"  | —      |
| b2(E)                            | 84  | #8   | 21'-7"  | —      |
| b3(E)                            | 80  | #8   | 27'-3"  | └┐     |
| b4(E)                            | 40  | #8   | 35'-9"  | —      |
| b5(E)                            | 76  | #8   | 25'-0"  | └┐     |
| b6(E)                            | 38  | #8   | 29'-11" | —      |
| b7(E)                            | 18  | #5   | 30'-10" | —      |
| d(E)                             | 172 | #5   | 4'-9"   | └┐     |
| x(E)                             | 88  | #5   | 9'-4"   | └┐     |
| x1(E)                            | 76  | #5   | 3'-10"  | └┐     |
| x2(E)                            | 76  | #5   | 8'-4"   | └┐     |
| Reinforcement Bars, Epoxy Coated |     |      | Pound   | 59,360 |
| Concrete Superstructure          |     |      | Cu. Yd. | 169.2  |

DESIGNED - RYAN P. NEGANGARD  
CHECKED - TIFFANY L. ADAMS  
DRAWN - DENNIS A. POP  
CHECKED - R.P.N. / T.L.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/4/2024  
REVISED -  
REVISED -

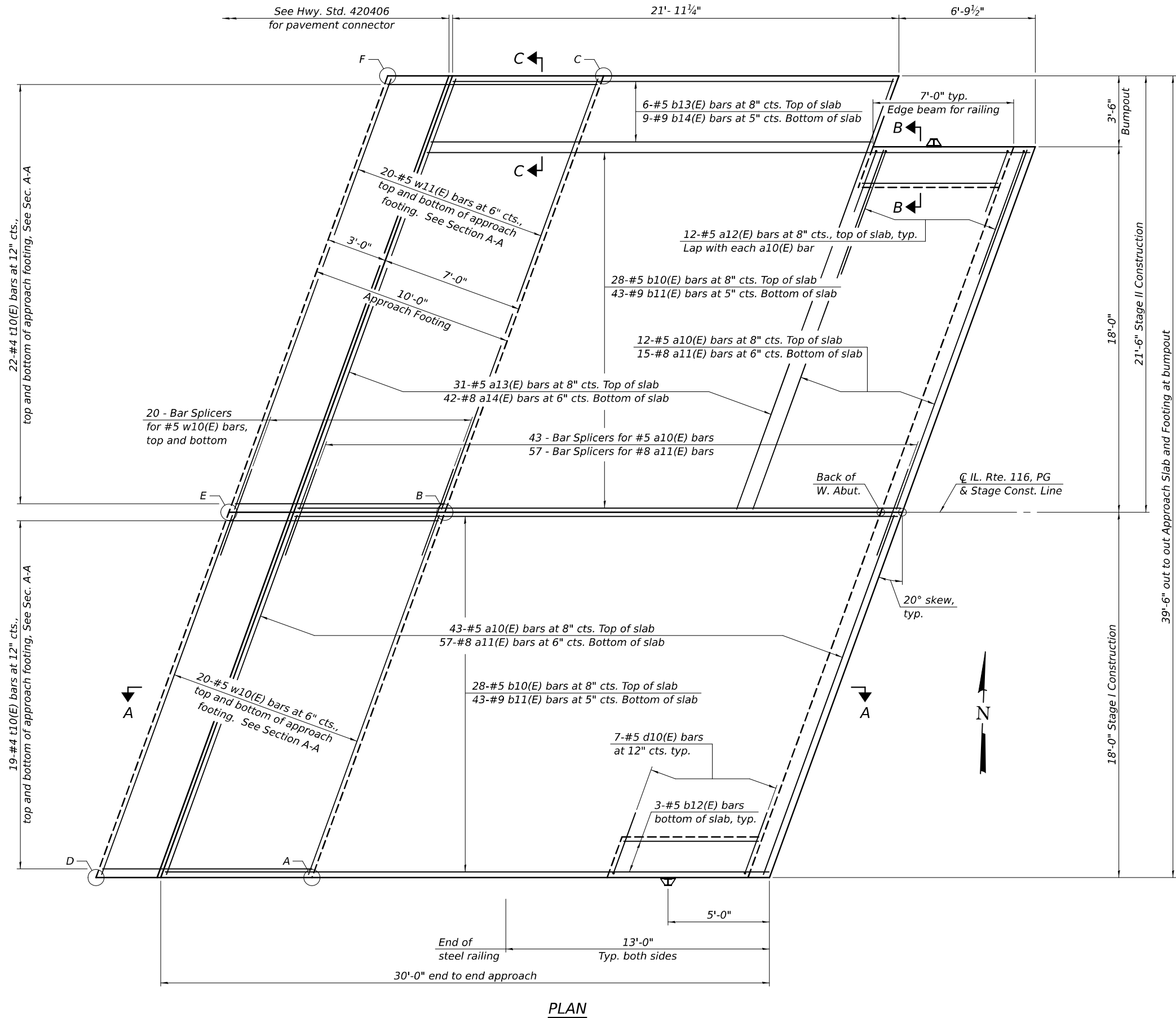
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 053-0194

SHEET 11 OF 29 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
673 (112BR)ES LIVINGSTON 65 33  
CONTRACT NO. 66L79  
ILLINOIS FED. AID PROJECT

MODEL: 0530194-66L79-012  
FILE NAME: pw://lido-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn



TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING

| West Approach      |        |        |
|--------------------|--------|--------|
| Point/<br>Location | Top    | Bottom |
| A - SE             | 655.62 | 654.79 |
| B - E CL           | 655.91 | 655.08 |
| C - NE             | 655.53 | 654.70 |
| D - SW             | 655.64 | 654.81 |
| E - W CL           | 655.93 | 655.10 |
| F - NW             | 655.55 | 654.72 |

DESIGNED - RYAN P. NEGANGARD  
CHECKED - TIFFANY L. ADAMS  
DRAWN - DENNIS A. POP  
CHECKED - R.P.N. / T.L.A.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/4/2024  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

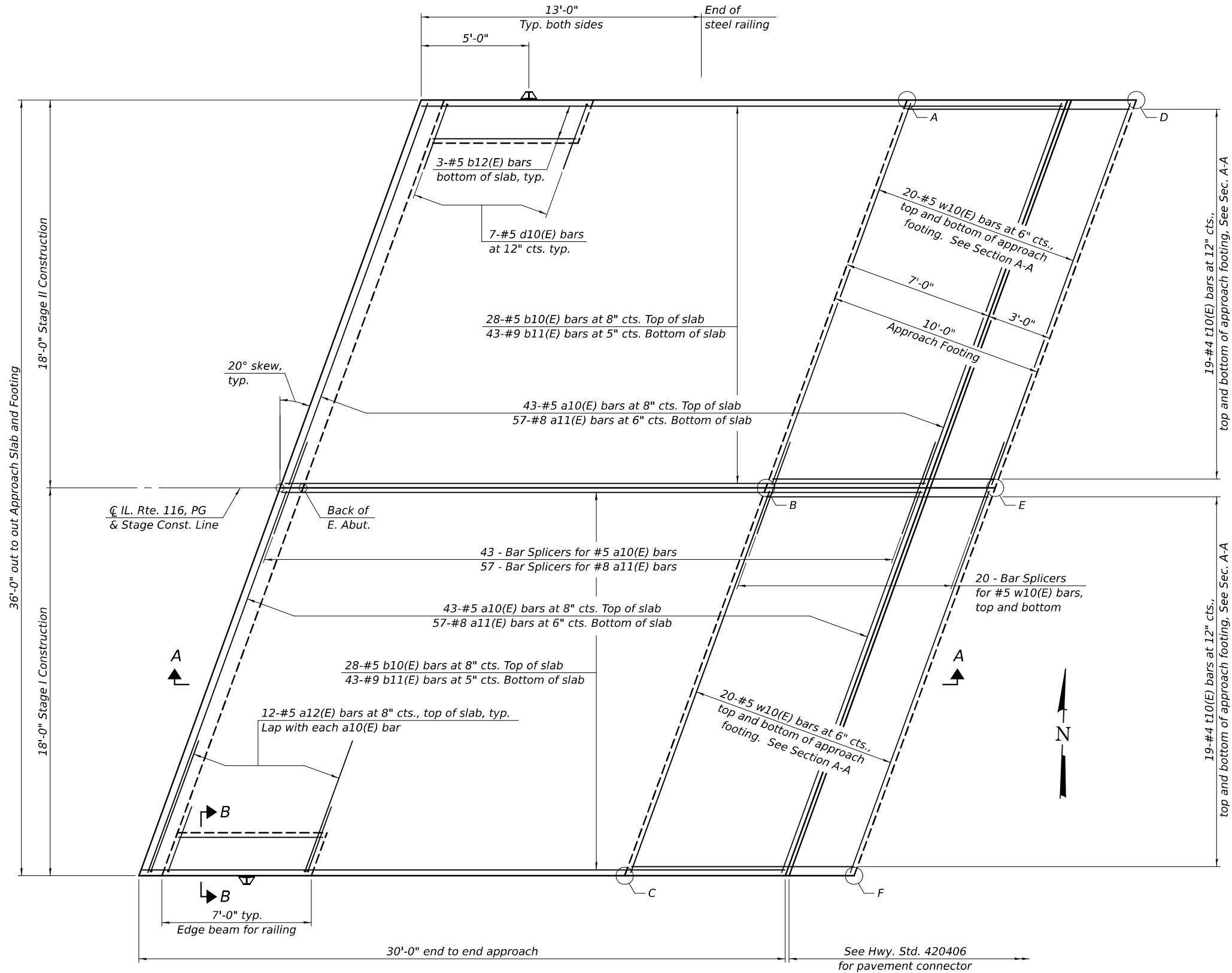
WEST BRIDGE APPROACH SLAB  
STRUCTURE NO. 053-0194

SHEET 12 OF 29 SHEETS

|                           |           |            |                 |              |
|---------------------------|-----------|------------|-----------------|--------------|
| F.A.P.<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673                       | (112BR)ES | LIVINGSTON | 65              | 34           |
| CONTRACT NO. 66L79        |           |            |                 |              |
| ILLINOIS FED. AID PROJECT |           |            |                 |              |

10/7/2024 10:52:46 AM

MODEL: 0530194-66L79-013  
FILE NAME: pw:///lido-gwbentley.com:FW/IDOT/Documents/IDOT\_O ces/Bureau of Bridges and Structures/IDOT Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn



PLAN

TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING

| East Approach      |        |        |
|--------------------|--------|--------|
| Point/<br>Location | Top    | Bottom |
| A - NW             | 655.40 | 654.57 |
| B - W C            | 655.70 | 654.87 |
| C - SW             | 655.40 | 654.57 |
| D - NE             | 655.40 | 654.57 |
| E - E C            | 655.70 | 654.87 |
| F - SE             | 655.40 | 654.57 |

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |                                                                   |
|----------|-------------------------------------------------------------------|
| EXAMINED | <i>Mark Shuffler</i><br>ENGINEER OF BRIDGE DESIGN                 |
| PASSED   | <i>Jayne F. [Signature]</i><br>ENGINEER OF BRIDGES AND STRUCTURES |

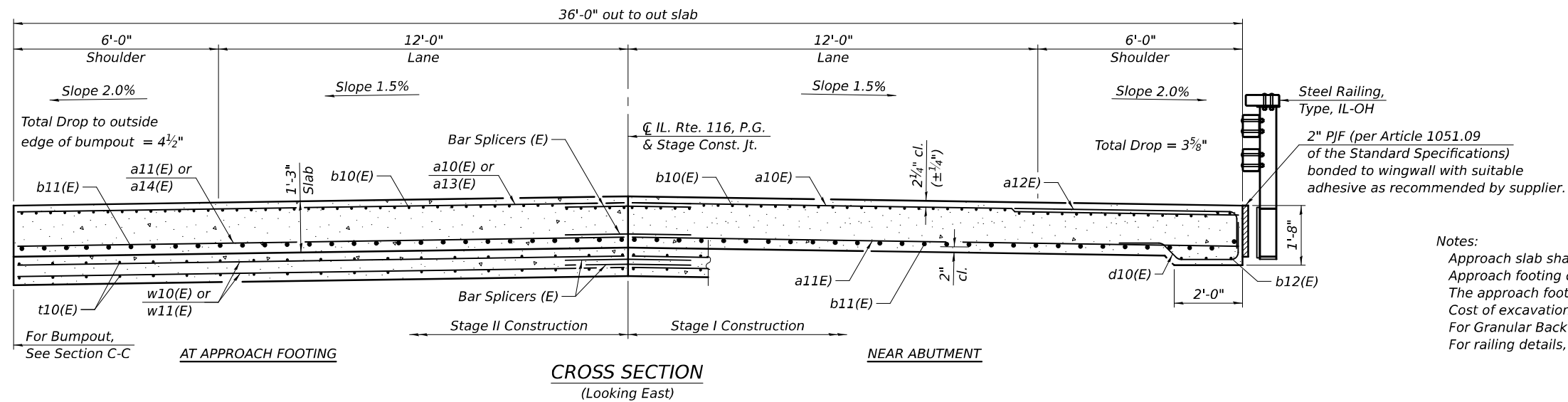
|           |           |
|-----------|-----------|
| DATE -    | 10/4/2024 |
| REVISED - |           |
| REVISED - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

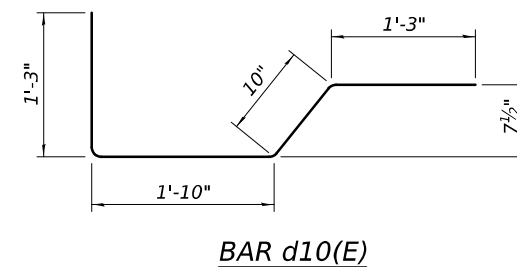
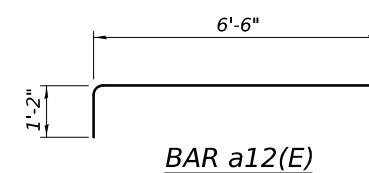
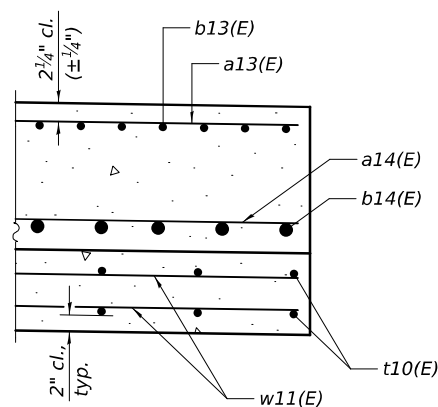
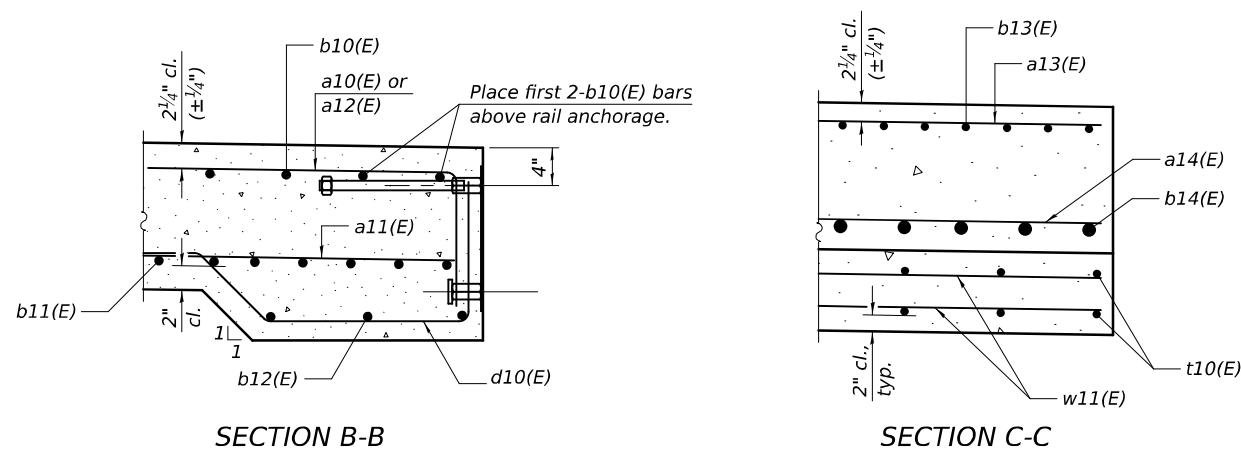
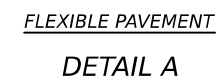
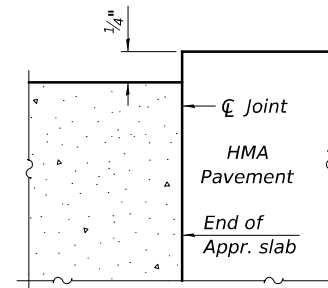
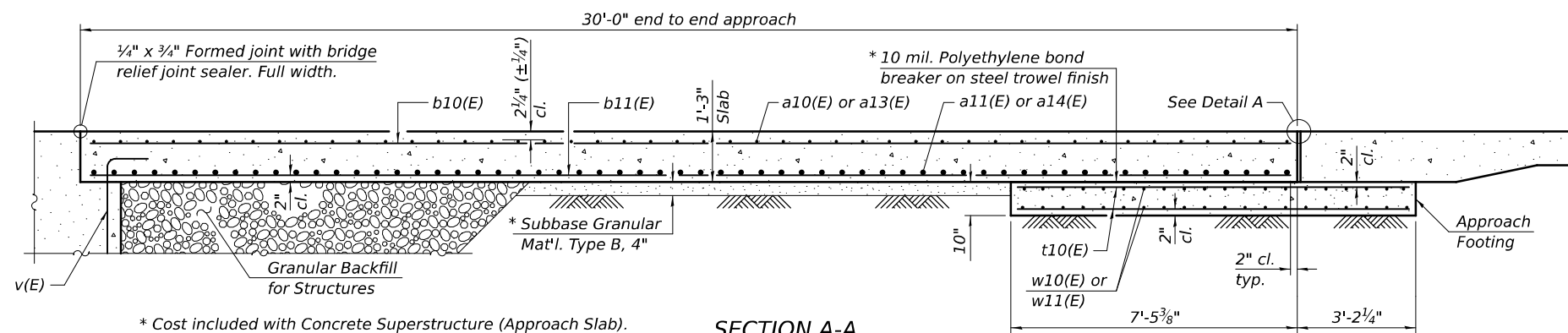
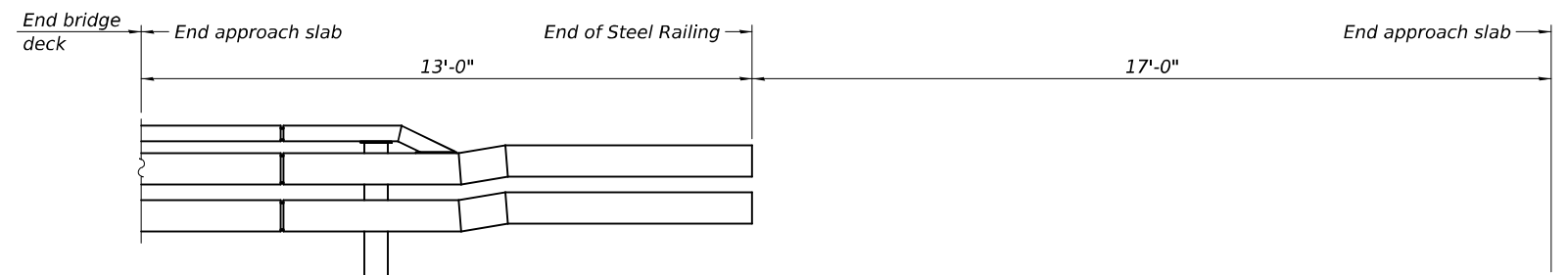
EAST BRIDGE APPROACH SLAB  
STRUCTURE NO. 053-0194

SHEET 13 OF 29 SHEETS

| F.A.P.<br>RTE.     | SECTION   | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------|-----------|------------------|-----------------|--------------|
| 673                | (112BR)ES | LIVINGSTON       | 65              | 35           |
| CONTRACT NO. 66L79 |           |                  |                 |              |
| ILLINOIS           |           | FED. AID PROJECT |                 |              |



Notes:  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 29.  
 For railing details, see sheets 15 thru 18 of 29.



TWO APPROACHES  
BILL OF MATERIAL

| Bar                                        | No. | Size | Length  | Shape  |
|--------------------------------------------|-----|------|---------|--------|
| a10(E)                                     | 141 | #5   | 18'-10" | =====  |
| a11(E)                                     | 186 | #8   | 18'-10" | =====  |
| a12(E)                                     | 48  | #5   | 7'-8"   | =====  |
| a13(E)                                     | 31  | #5   | 22'-7"  | =====  |
| a14(E)                                     | 42  | #8   | 22'-7"  | =====  |
|                                            |     |      |         |        |
| b10(E)                                     | 112 | #5   | 29'-8"  | =====  |
| b11(E)                                     | 172 | #9   | 29'-8"  | =====  |
| b12(E)                                     | 12  | #5   | 6'-8"   | =====  |
| b13(E)                                     | 6   | #5   | 21'-7"  | =====  |
| b14(E)                                     | 9   | #9   | 21'-7"  | =====  |
|                                            |     |      |         |        |
| d10(E)                                     | 28  | #5   | 5'-2"   | =====  |
|                                            |     |      |         |        |
| t10(E)                                     | 158 | #4   | 10'-4"  | =====  |
|                                            |     |      |         |        |
| w10(E)                                     | 120 | #5   | 18'-10" | =====  |
| w11(E)                                     | 40  | #5   | 22'-7"  | =====  |
| Concrete Superstructure<br>(Approach Slab) |     |      | Cu. Yd. | 105.4  |
| Concrete Structures                        |     |      | Cu. Yd. | 24.8   |
| Reinforcement Bars,<br>Epoxy Coated        |     |      | Pound   | 42,000 |

|          |   |                   |
|----------|---|-------------------|
| DESIGNED | - | RYAN P. NEGANGARD |
| CHECKED  | - | TIFFANY L. ADAMS  |
| DRAWN    | - | DENNIS A. POP     |
| CHECKED  | - | R.P.N. / T.L.A.   |

|          |
|----------|
| EXAMINED |
| PASSED   |

Marsh Sheffer  
ENGINEER OF BRIDGE DESIGN

Jayne F. Sheffer  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/4/2024

|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

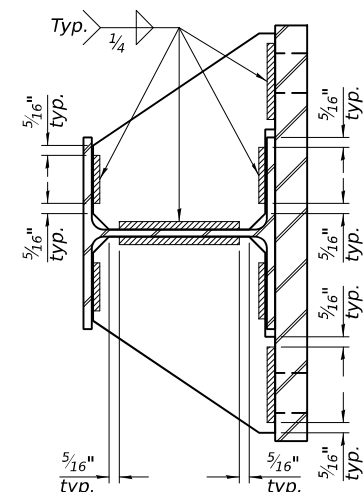
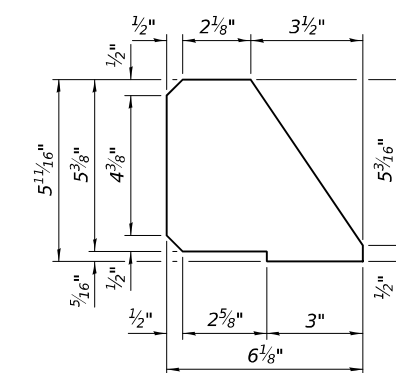
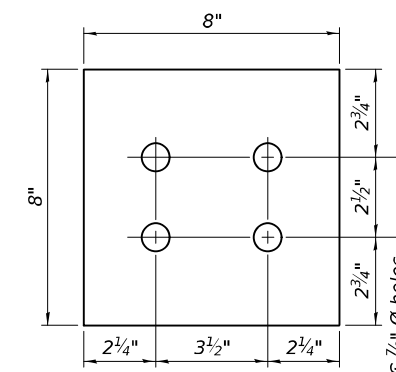
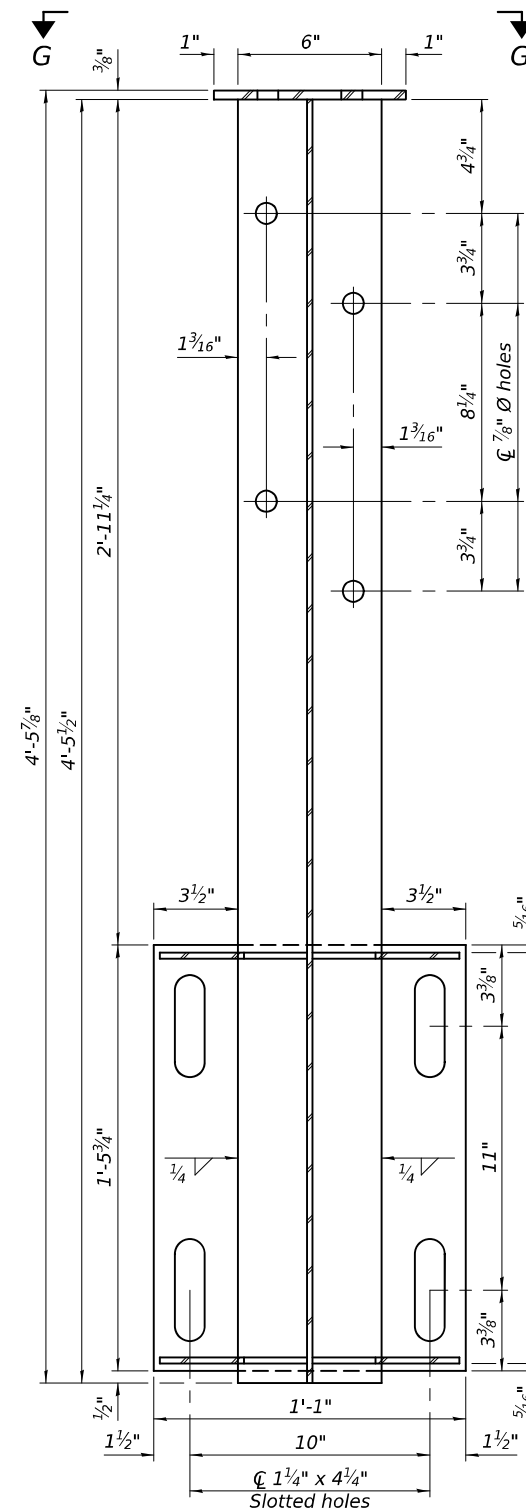
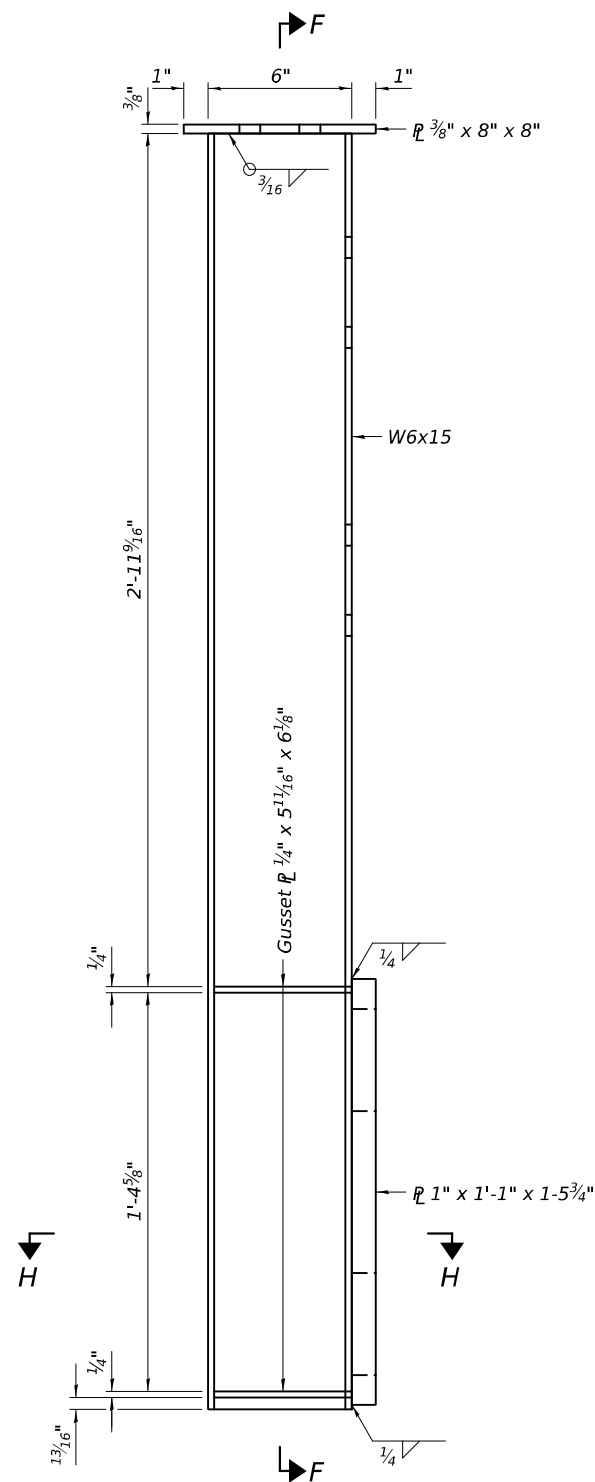
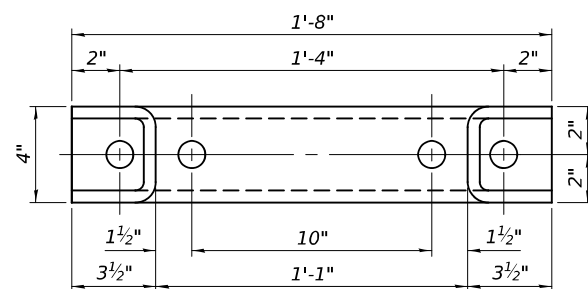
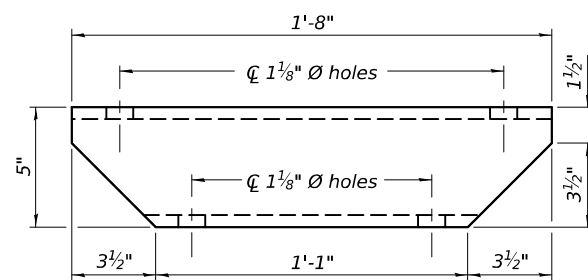
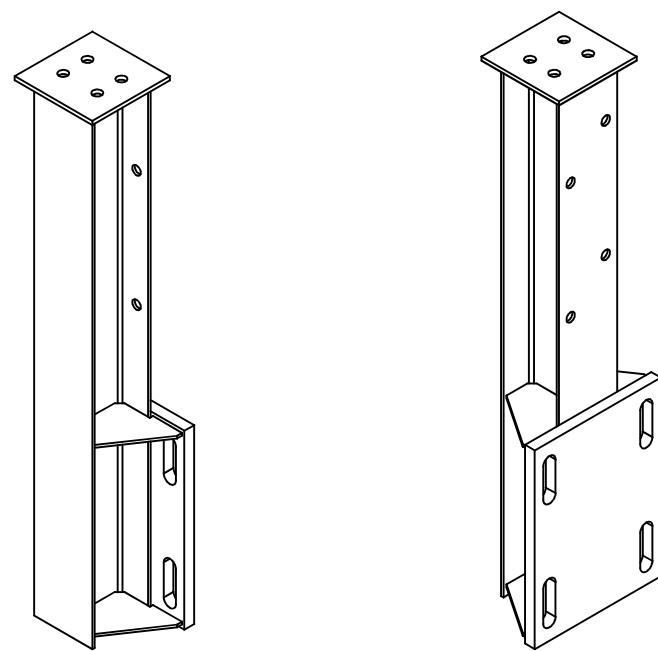
**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 053-0194**

SHEET 14 OF 29 SHEETS

|                |           |                    |                 |              |
|----------------|-----------|--------------------|-----------------|--------------|
| F.A.P.<br>RTE. | SECTION   | COUNTY             | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673            | (112BR)ES | LIVINGSTON         | 65              | 36           |
|                |           | CONTRACT NO. 66L79 |                 |              |
| ILLINOIS       |           | FED. AID PROJECT   |                 |              |

MODEL : 0530194-66L79-014  
FILE NAME : pw:\jld0-pw.bentley.com\Projects\0530194\CADDData\Bridge\0530194-66L79-Design.dgn

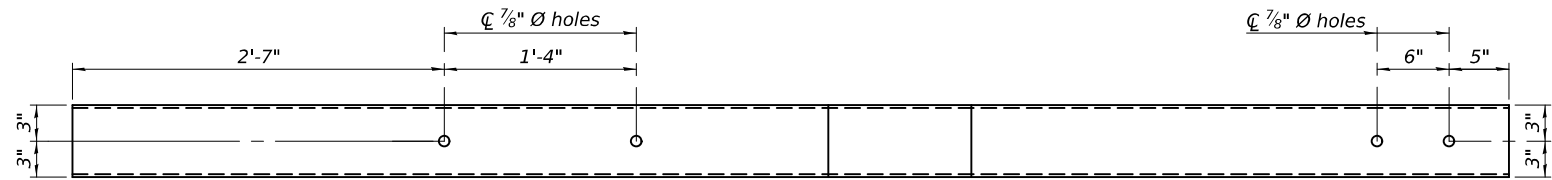




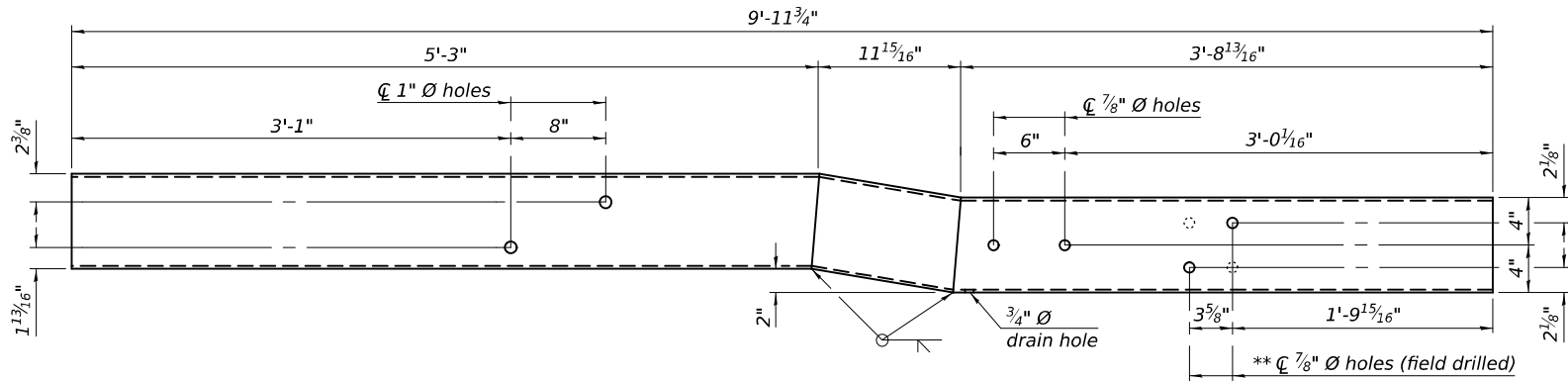
(Sheet 2 of 4)

|                              |          |                                                                                     |                  |                                                   |                                                     |                |                                                                                     |                  |                 |              |
|------------------------------|----------|-------------------------------------------------------------------------------------|------------------|---------------------------------------------------|-----------------------------------------------------|----------------|-------------------------------------------------------------------------------------|------------------|-----------------|--------------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED |  | DATE - 10/4/2024 | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | STEEL RAILING, TYPE IL-OH<br>STRUCTURE NO. 053-0194 | F.A.P.<br>RTE. | SECTION                                                                             | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
| CHECKED - TIFFANY L. ADAMS   |          |                                                                                     |                  |                                                   |                                                     | PASSED         |  | 673              | (112BR)ES       | LIVINGSTON   |
| DRAWN - DENNIS A. POP        | REVISÉ - | CONTRACT NO. 66L73                                                                  |                  |                                                   |                                                     |                |                                                                                     |                  |                 |              |
| CHECKED - R.P.N. / T.L.A.    | REVISÉ - | SHEET 16 OF 29 SHEETS                                                               |                  |                                                   |                                                     |                |                                                                                     |                  |                 |              |
|                              |          |                                                                                     |                  |                                                   |                                                     | ILLINOIS       |                                                                                     | FED. AID PROJECT |                 |              |

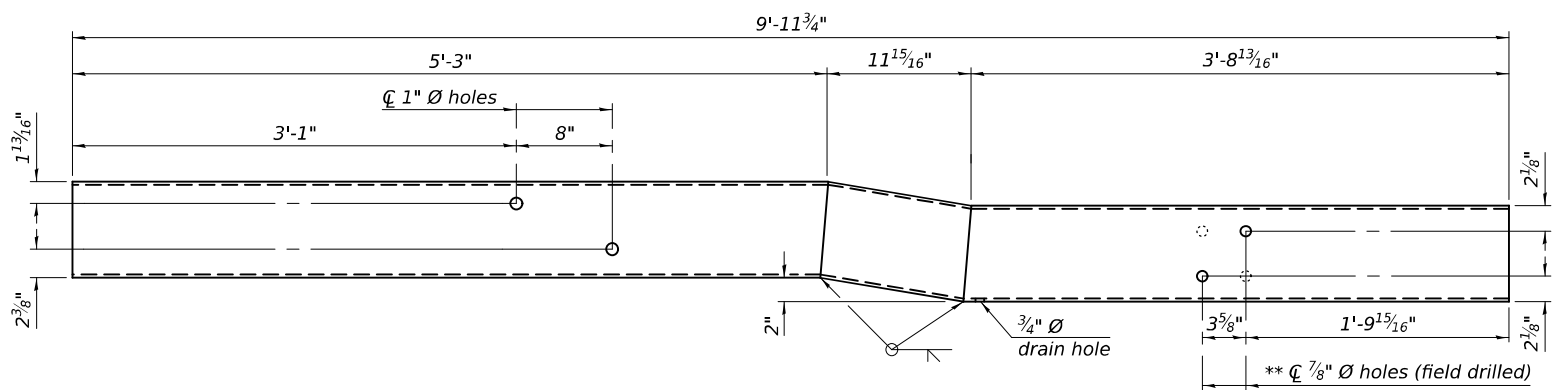




PLAN OF MIDDLE AND BOTTOM RAIL TRANSITION

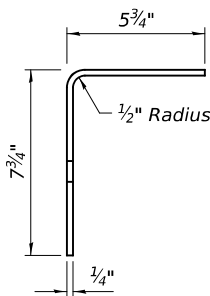


INSIDE ELEVATION OF LEFT MIDDLE RAIL TRANSITION

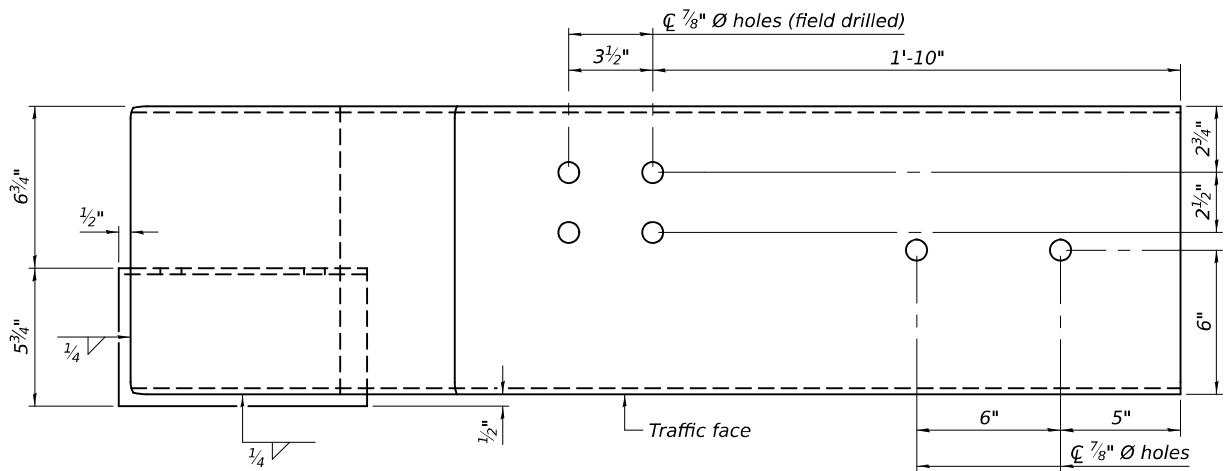


INSIDE ELEVATION OF LEFT BOTTOM RAIL TRANSITION

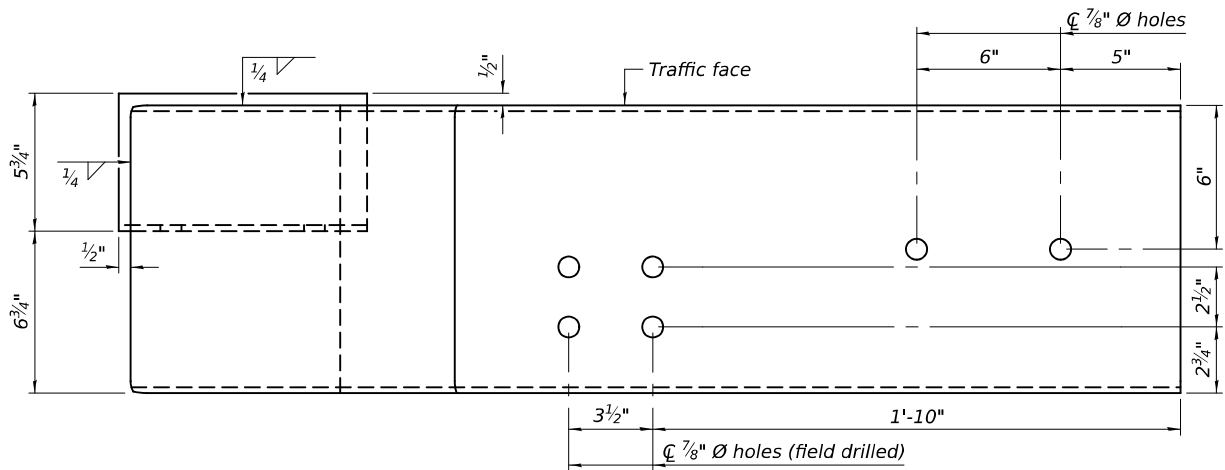
\*\* Hole orientation is flipped as shown with the dashed holes for the right side piece.



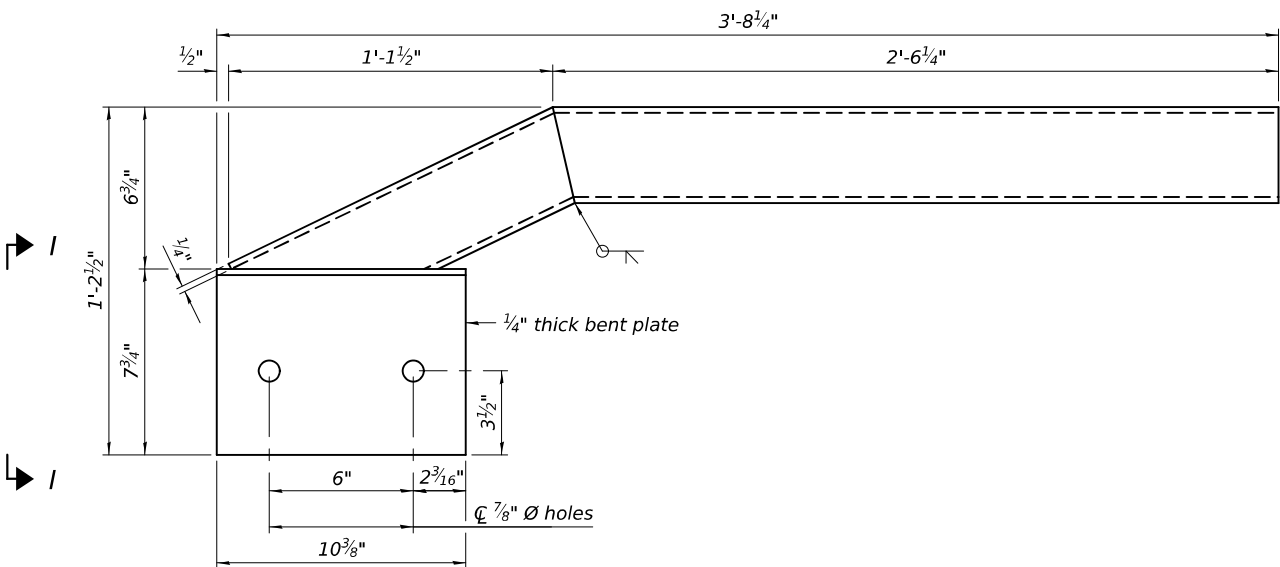
VIEW I-I



PLAN OF LEFT TOP RAIL TERMINATION ASSEMBLY



PLAN OF RIGHT TOP RAIL TERMINATION ASSEMBLY



INSIDE ELEVATION OF LEFT TOP RAIL TERMINATION ASSEMBLY

(Right Similar)

R-40BD

5-15-2023

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

EXAMINED

PASSED

*Mark Shuffler*  
ENGINEER OF BRIDGE DESIGN  
*Jayne F. Shuffler*  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - 10/4/2024

REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE IL-OH  
STRUCTURE NO. 053-0194

SHEET 17 OF 29 SHEETS

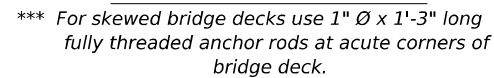
| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|------------|--------------|-----------|
| 673                | (112BR)ES | LIVINGSTON | 65           | 39        |
| CONTRACT NO. 66L79 |           |            |              |           |

ILLINOIS FED. AID PROJECT

MODEL: 0530194+66L79-017  
FILE NAME: p:\w\l\lido-pw\kentley.com\FWIDOT\Documents\IDOT O ces\Bureau of Bridges and Structures\OBM Projects\0530194\CADDData\Bridge\0530194-66L79-Design.dgn

10/7/2024 10:52:50 AM

(Sheet 3 of 4)

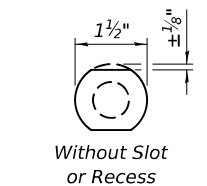


All plates shall be AASHTO M270 grade 50.  
All HSS tubing shall be ASTM A500 grade C.  
All heavy hex nuts including heavy hex coupling nuts shall be according to ASTM A563 grade DH.  
All fully threaded anchor rods shall be ASTM F1554 grade 105.  
All round head bolts shall be ASTM A449.  
All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.

Rail splice inserts may be built out of 2 -  $\frac{3}{8}$ " bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched. A sufficient number shims of various thicknesses, built to the dimensions shown in the shim plate detail, shall be provided to adjust posts for plumbness and horizontal alignment. Cost included with Steel Railing, Type IL-OH.

The spacer tubes shall be fastened to the bridge deck and bridge approach slab snug tight and given an additional  $\frac{1}{2}$  turn. The 1" diameter high strength bolts used to connect the spacer tubes to the post assemblies shall be tightened according to Article 505.04(f)(2) of the Standard Specifications.

All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.



VIEW K-K

| Item                      | Unit | Quantity |
|---------------------------|------|----------|
| Steel Railing, Type IL-OH | Foot | 225      |

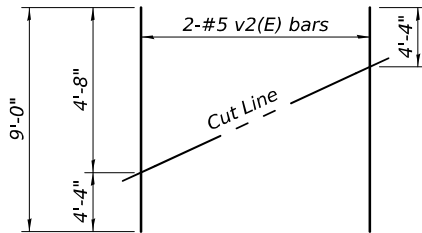
10/7/2024 10:52:51 AM





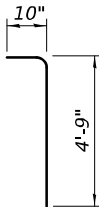


MODEL: 0530194-66L79-021  
FILE NAME: pw:///lido-gw-bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

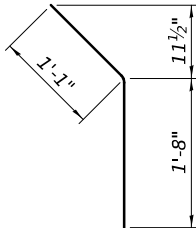


**FIELD CUTTING DIAGRAM**

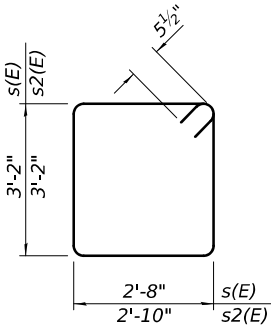
Order v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



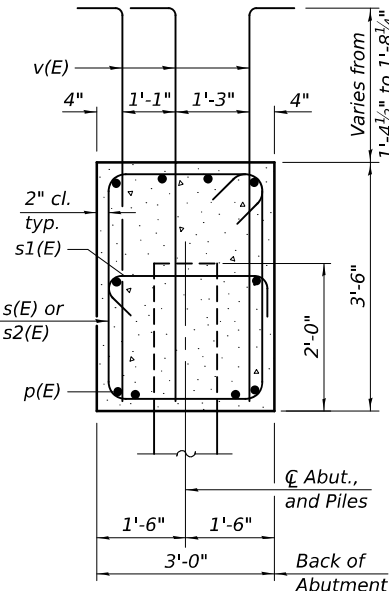
**BAR v(E)**



**BAR h2(E)**

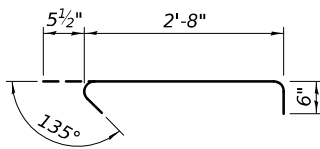


**BAR s(E) & s2(E)**

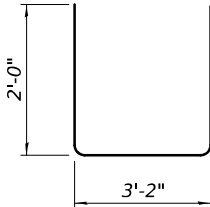


**SEC. THRU ABUT.**

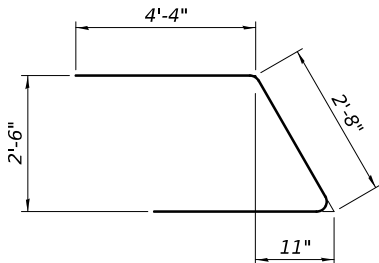
Dimensions at right angles to abutment.



**BAR s1(E)**



**BAR s3(E)**



**BAR u(E)**

**WEST ABUTMENT  
BILL OF MATERIAL**

| Bar                                       | No. | Size | Length  | Shape |
|-------------------------------------------|-----|------|---------|-------|
| h(E)                                      | 16  | #5   | 6'-6"   | —     |
| h1(E)                                     | 8   | #5   | 2'-7"   | —     |
| h2(E)                                     | 4   | #5   | 2'-9"   | —     |
| p(E)                                      | 20  | #7   | 18'-10" | —     |
| s(E)                                      | 32  | #5   | 12'-7"  | □     |
| s1(E)                                     | 12  | #5   | 3'-8"   | ◁     |
| s2(E)                                     | 4   | #5   | 12'-11" | □     |
| s3(E)                                     | 4   | #5   | 7'-2"   | □     |
| u(E)                                      | 8   | #6   | 11'-4"  | ▤     |
| v(E)                                      | 120 | #5   | 5'-7"   | —     |
| v1(E)                                     | 8   | #5   | 4'-11"  | —     |
| v2(E)                                     | 4   | #5   | 9'-0"   | —     |
| Structure Excavation                      |     |      | Cu. Yd. | 56    |
| Concrete Structures                       |     |      | Cu. Yd. | 16.0  |
| Reinforcement Bars, Epoxy Coated          |     |      | Pound   | 2,370 |
| Furnishing Metal Shell Piles 14" x 0.312" |     |      | Foot    | 130   |
| Driving Piles                             |     |      | Foot    | 130   |
| Test Pile Metal Shells                    |     |      | Each    | 1     |
| Pile Shoes                                |     |      | Each    | 6     |

**EAST ABUTMENT  
BILL OF MATERIAL**

| Bar                                       | No. | Size | Length  | Shape |
|-------------------------------------------|-----|------|---------|-------|
| h(E)                                      | 16  | #5   | 6'-6"   | —     |
| h1(E)                                     | 8   | #5   | 2'-7"   | —     |
| h2(E)                                     | 4   | #5   | 2'-9"   | —     |
| p(E)                                      | 20  | #7   | 18'-10" | —     |
| s(E)                                      | 32  | #5   | 12'-7"  | □     |
| s1(E)                                     | 12  | #5   | 3'-8"   | ◁     |
| s2(E)                                     | 4   | #5   | 12'-11" | □     |
| s3(E)                                     | 4   | #5   | 7'-2"   | □     |
| u(E)                                      | 8   | #6   | 11'-4"  | ▤     |
| v(E)                                      | 120 | #5   | 5'-7"   | —     |
| v1(E)                                     | 8   | #5   | 4'-11"  | —     |
| v2(E)                                     | 4   | #5   | 9'-0"   | —     |
| Structure Excavation                      |     |      | Cu. Yd. | 56    |
| Concrete Structures                       |     |      | Cu. Yd. | 16.0  |
| Reinforcement Bars, Epoxy Coated          |     |      | Pound   | 2,370 |
| Furnishing Metal Shell Piles 14" x 0.312" |     |      | Foot    | 175   |
| Driving Piles                             |     |      | Foot    | 175   |
| Test Pile Metal Shells                    |     |      | Each    | 1     |
| Pile Shoes                                |     |      | Each    | 6     |

For details of piles see sheet 24 of 29.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS  
STRUCTURE NO. 053-0194

SHEET 21 OF 29 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 43        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

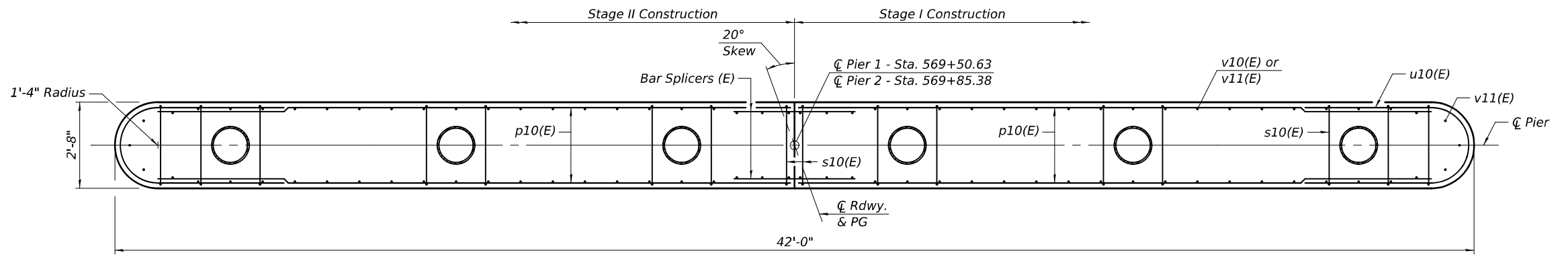
|                              |          |
|------------------------------|----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED |
| CHECKED - TIFFANY L. ADAMS   | PASSED   |
| DRAWN - DENNIS A. POP        |          |
| CHECKED - R.P.N. / T.L.A.    |          |

|           |           |
|-----------|-----------|
| 10/4/2024 | 10/7/2024 |
| 10/7/2024 | 10/7/2024 |

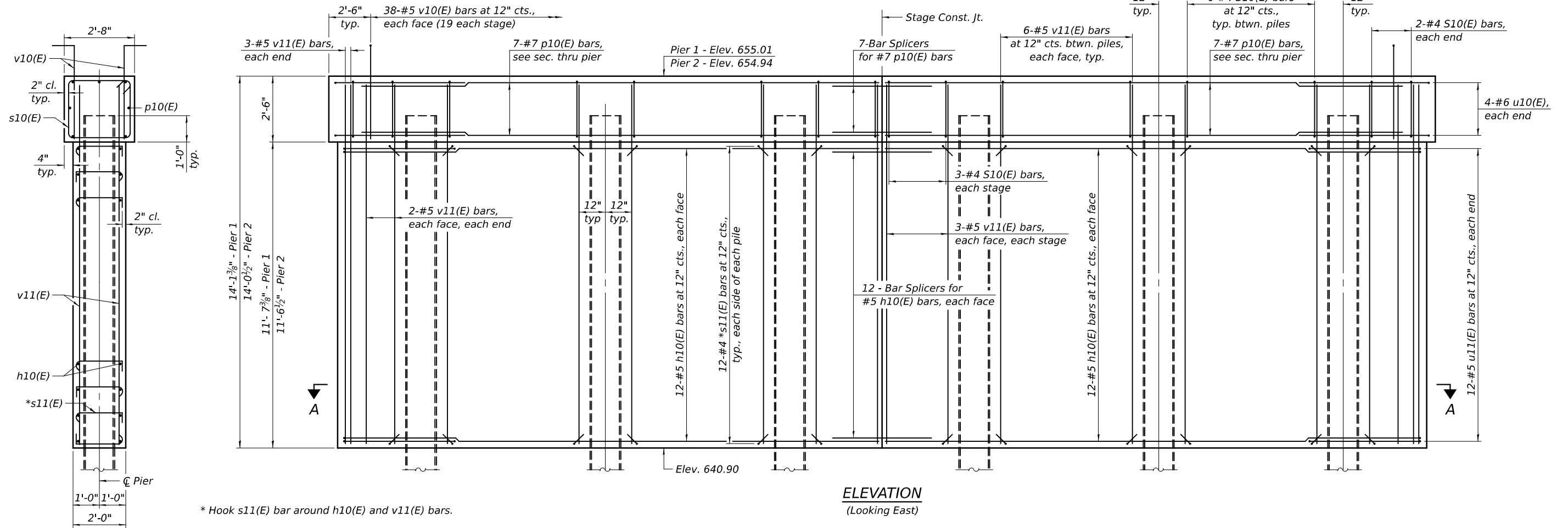
|           |           |
|-----------|-----------|
| 10/4/2024 | 10/7/2024 |
| 10/7/2024 | 10/7/2024 |

10/7/2024 10:52:53 AM

MODEL: 0530194-66L79-022  
FILE NAME: pw://lido-gw-bentley.com/FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn



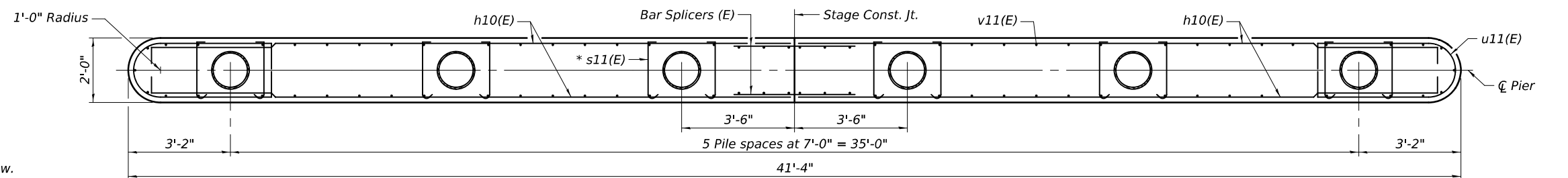
PLAN



ELEVATION  
(Looking East)

\* Hook s11(E) bar around h10(E) and v11(E) bars.

SECTION THRU PIER



SECTION A-A

Notes:  
See sheet 23 of 29 for additonal pier details  
and Bill of Material.  
See sheet 24 of 29 for details of piles.  
Alternate s11(E) bar 135° end every other row.

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |                                                                   |
|----------|-------------------------------------------------------------------|
| EXAMINED | <i>Mark Shuff</i><br>ENGINEER OF BRIDGE DESIGN                    |
| PASSED   | <i>Jayne F. [Signature]</i><br>ENGINEER OF BRIDGES AND STRUCTURES |

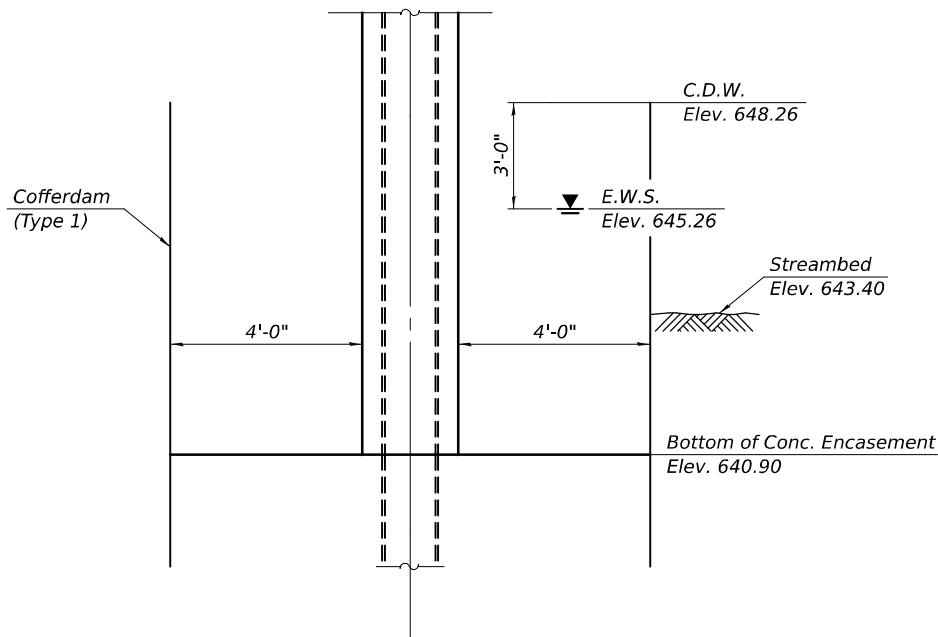
|           |           |
|-----------|-----------|
| DATE -    | 10/4/2024 |
| REVISED - |           |
| REVISED - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

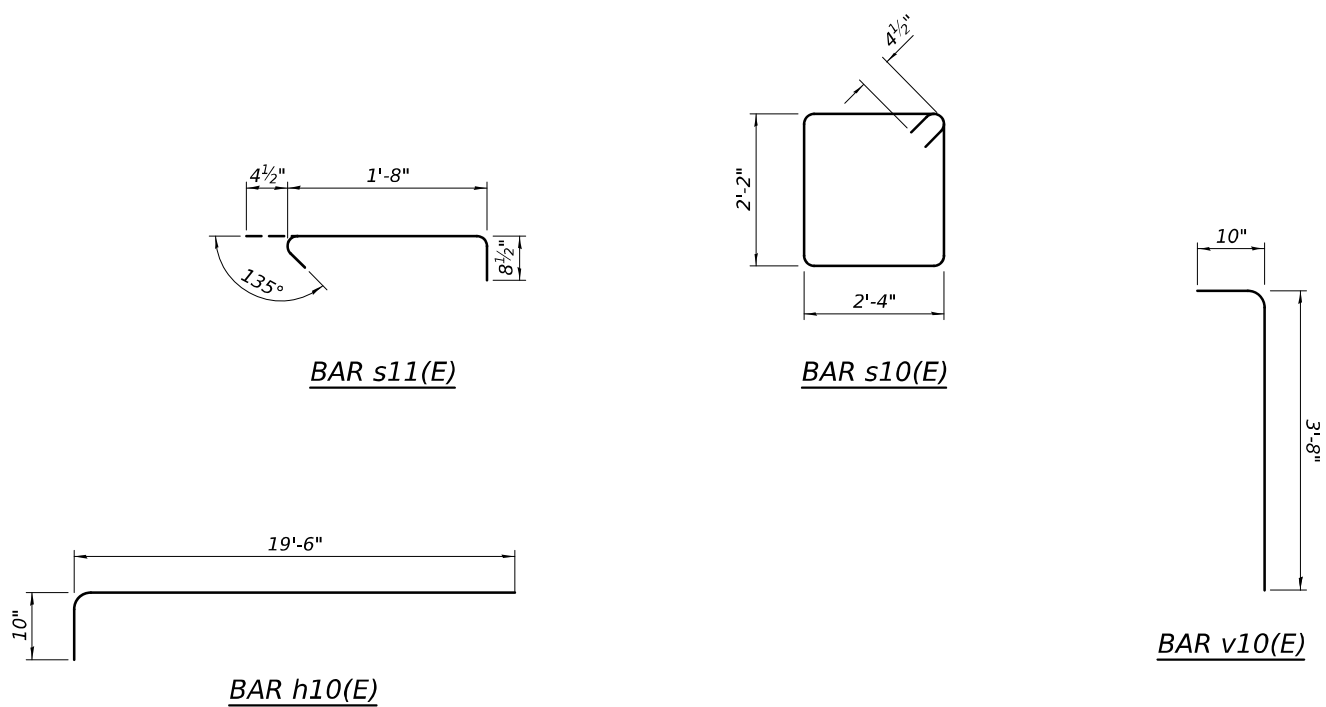
PIERS  
STRUCTURE NO. 053-0194

SHEET 22 OF 29 SHEETS

| F.A.P.<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|-----------|------------|-----------------|--------------|
| 673                       | (112BR)ES | LIVINGSTON | 65              | 44           |
| CONTRACT NO. 66L79        |           |            |                 |              |
| ILLINOIS FED. AID PROJECT |           |            |                 |              |



COFFERDAM DETAIL



PIER 1  
BILL OF MATERIAL

| Bar                                          | No. | Size | Length  | Shape |
|----------------------------------------------|-----|------|---------|-------|
| h10(E)                                       | 48  | #5   | 20'-4"  |       |
| p10(E)                                       | 14  | #7   | 19'-6"  |       |
| s10(E)                                       | 34  | #4   | 9'-9"   |       |
| s11(E)                                       | 144 | #4   | 2'-9"   |       |
| u10(E)                                       | 8   | #6   | 12'-3"  |       |
| u11(E)                                       | 24  | #5   | 10'-8"  |       |
| v10(E)                                       | 76  | #5   | 4'-6"   |       |
| v11(E)                                       | 74  | #5   | 13'-9"  |       |
| Cofferdam Excavation                         |     |      | Cu. Yd. | 67.0  |
| Cofferdam (Type 1)<br>(Location - 1)         |     |      | Each    | 1     |
| Concrete Structures                          |     |      | Cu. Yd. | 45.4  |
| Reinforcement Bars,<br>Epoxy Coated          |     |      | Pound   | 3,890 |
| Furnishing Metal Shell Piles<br>14" x 0.312" |     |      | Foot    | 165   |
| Driving Piles                                |     |      | Foot    | 165   |
| Test Pile Metal Shells                       |     |      | Each    | 1     |
| Pile Shoes                                   |     |      | Each    | 6     |

PIER 2  
BILL OF MATERIAL

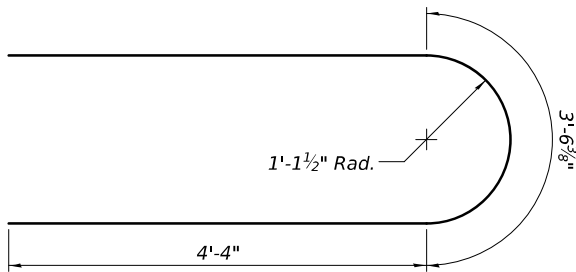
| Bar                                          | No. | Size | Length  | Shape |
|----------------------------------------------|-----|------|---------|-------|
| h10(E)                                       | 48  | #5   | 20'-4"  |       |
| p10(E)                                       | 14  | #7   | 19'-6"  |       |
| s10(E)                                       | 34  | #4   | 9'-9"   |       |
| s11(E)                                       | 144 | #4   | 2'-9"   |       |
| u10(E)                                       | 8   | #6   | 12'-3"  |       |
| u11(E)                                       | 24  | #5   | 10'-8"  |       |
| v10(E)                                       | 76  | #5   | 4'-6"   |       |
| v11(E)                                       | 74  | #5   | 13'-9"  |       |
| Cofferdam Excavation                         |     |      | Cu. Yd. | 65.0  |
| Cofferdam (Type 1)<br>(Location - 2)         |     |      | Each    | 1     |
| Concrete Structures                          |     |      | Cu. Yd. | 45.2  |
| Reinforcement Bars,<br>Epoxy Coated          |     |      | Pound   | 3,890 |
| Furnishing Metal Shell Piles<br>14" x 0.312" |     |      | Foot    | 200   |
| Driving Piles                                |     |      | Foot    | 200   |
| Test Pile Metal Shells                       |     |      | Each    | 1     |
| Pile Shoes                                   |     |      | Each    | 6     |

PIER 1 - PILE DATA

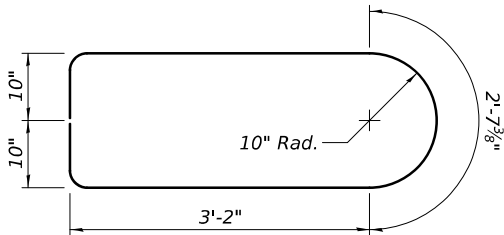
Type: Metal Shell 14" x 0.312" with Pile Shoes  
Nominal Required Bearing: 342 kips  
Factored Resistance Available: 188 kips  
Est. Length: 33'  
No. Production Piles: 5  
No. Test Piles: 1

PIER 2 - PILE DATA

Type: Metal Shell 14" x 0.312" with Pile Shoes  
Nominal Required Bearing: 342 kips  
Factored Resistance Available: 188 kips  
Est. Length: 40'  
No. Production Piles: 5  
No. Test Piles: 1



BAR u10(E)



BAR u11(E)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER DETAILS  
STRUCTURE NO. 053-0194

SHEET 23 OF 29 SHEETS

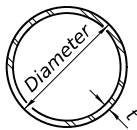
| F.A.P.<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|-----------|------------|-----------------|--------------|
| 673                       | (112BR)ES | LIVINGSTON | 65              | 45           |
| CONTRACT NO. 66L79        |           |            |                 |              |
| ILLINOIS FED. AID PROJECT |           |            |                 |              |

MODEL: 0530194-66L79-023  
FILE NAME: pw:///lido-pw-bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

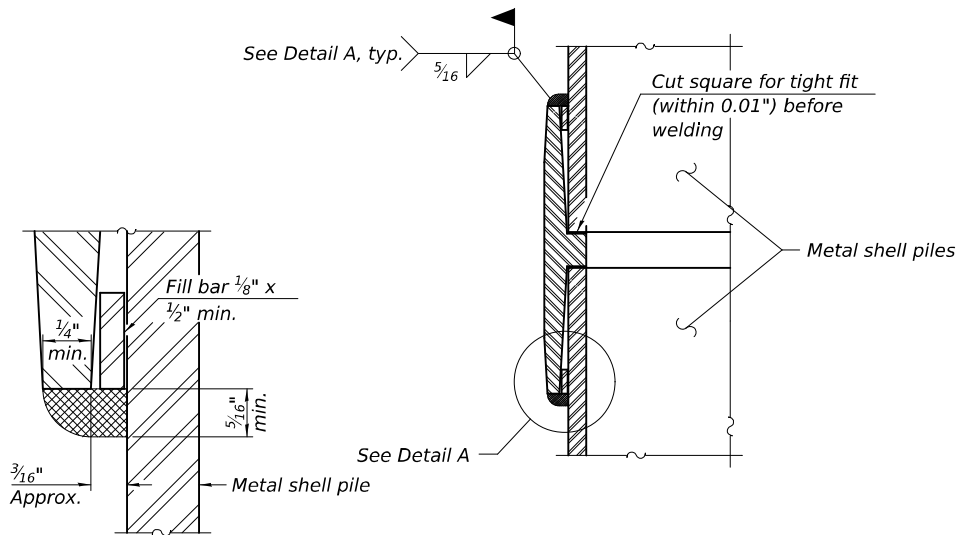
|          |                                    |           |           |
|----------|------------------------------------|-----------|-----------|
| EXAMINED |                                    | DATE -    | 10/4/2024 |
| PASSED   |                                    | REVISED - |           |
|          | ENGINEER OF BRIDGES AND STRUCTURES | REVISED - |           |

10/7/2024 10:52:55 AM

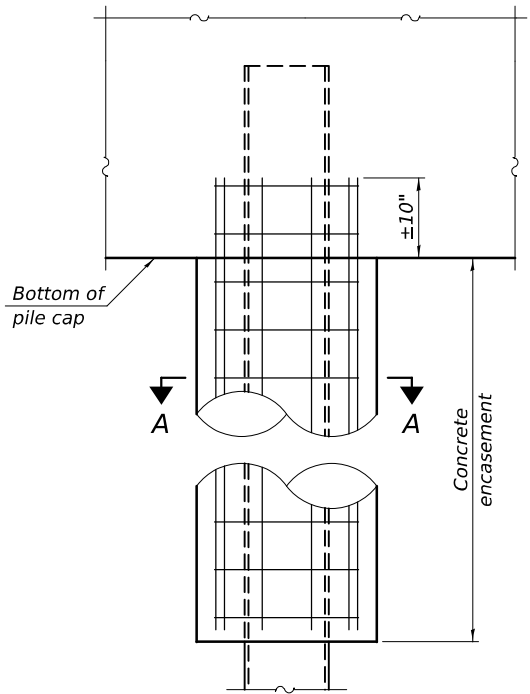


METAL SHELL PILE TABLE

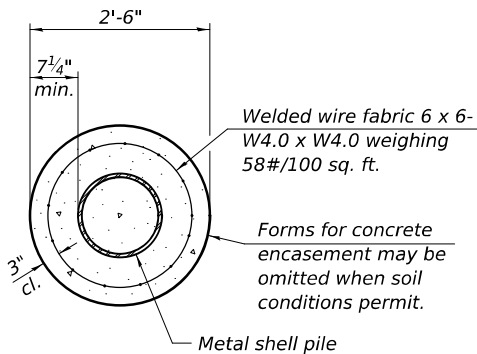
| Designation and outside diameter | Wall thickness t | Weight per foot (Lbs./ft.) | Inside volume (yd. <sup>3</sup> /ft.) |
|----------------------------------|------------------|----------------------------|---------------------------------------|
| PP12                             | 0.250"           | 31.40                      | 0.0267                                |
| PP14                             | 0.250"           | 36.75                      | 0.0368                                |
| PP14                             | 0.312"           | 45.65                      | 0.0361                                |
| PP16                             | 0.312"           | 52.32                      | 0.0478                                |
| PP16                             | 0.375"           | 62.64                      | 0.0470                                |



DETAIL A

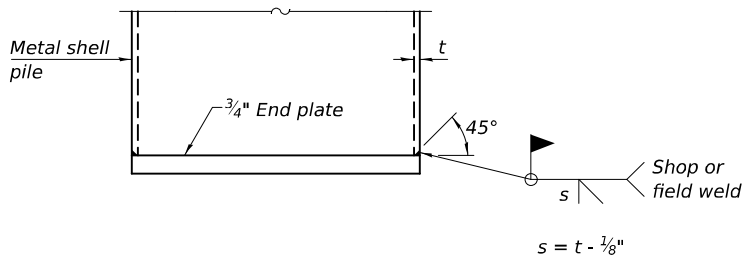


ELEVATION

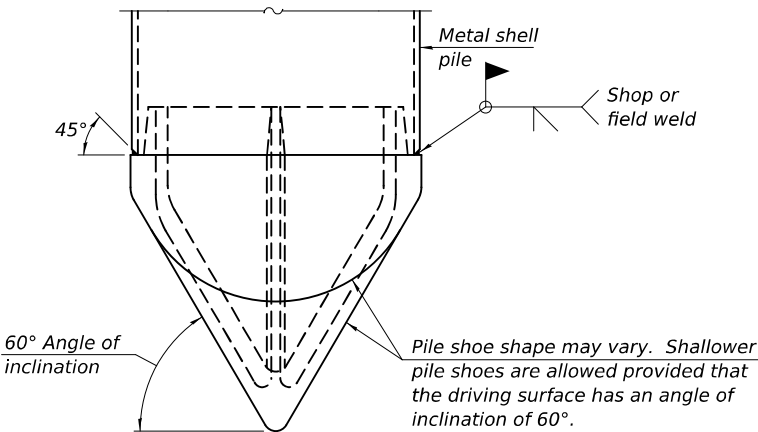


SECTION A-A

INDIVIDUAL PILE  
CONCRETE ENCASEMENT  
(When specified)



END PLATE ATTACHMENT

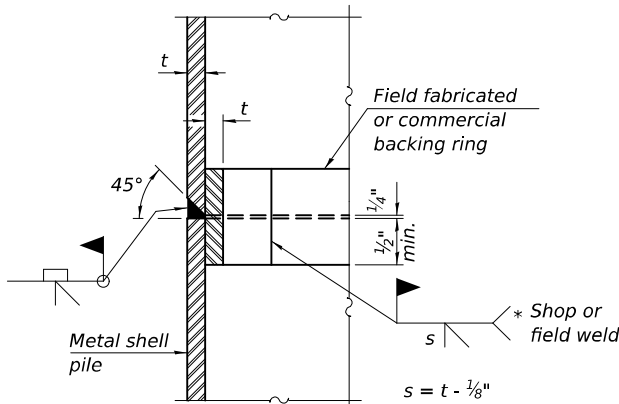


PILE SHOE ATTACHMENT

(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).

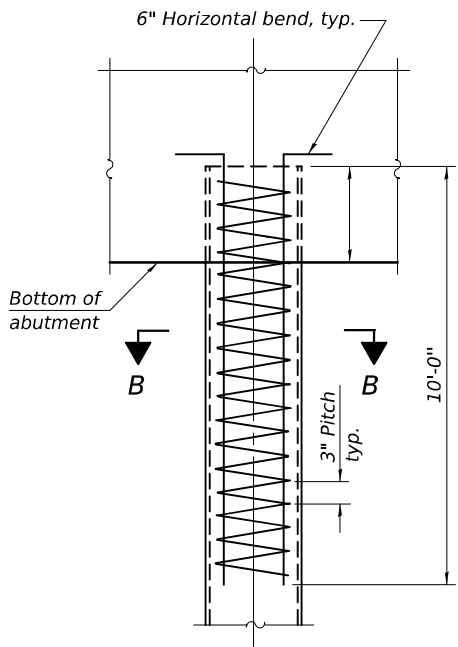
WELDED COMMERCIAL SPLICE

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.

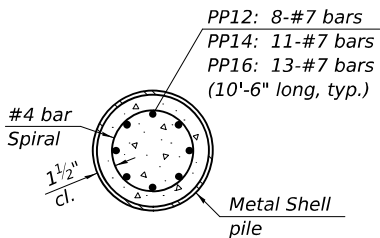


COMPLETE PENETRATION WELD SPLICE

\* 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.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS  
(Omit when concrete encasement is specified)

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

F-MS

5-15-2023

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |                                    |           |           |
|----------|------------------------------------|-----------|-----------|
| EXAMINED |                                    | DATE -    | 10/4/2024 |
| PASSED   |                                    | REVISED - |           |
|          | ENGINEER OF BRIDGES AND STRUCTURES | REVISED - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS  
STRUCTURE NO. 053-0194

SHEET 24 OF 29 SHEETS

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 46        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

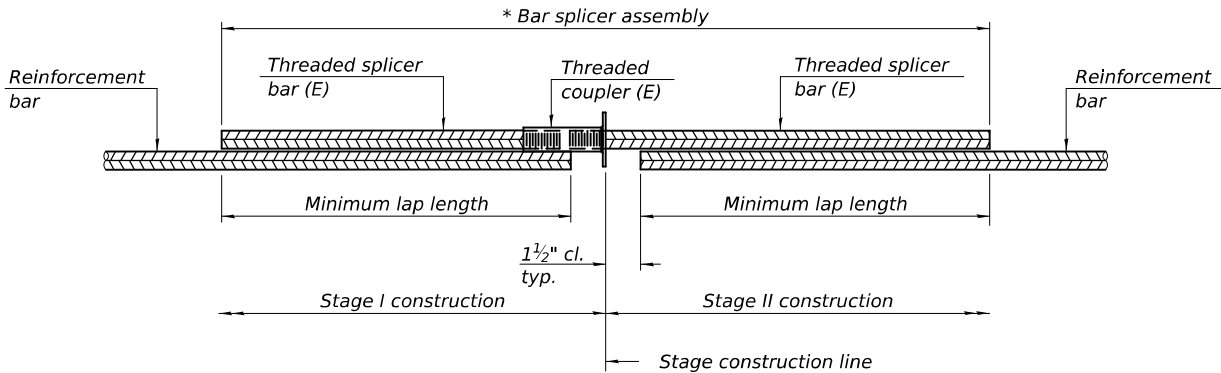
MODEL: 0530194-66L79-024

FILE NAME: pw://lido-gw-bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn

10/7/2024 10:52:55 AM



MODEL: 0530194+66L79-025  
FILE NAME: pw:///lido-pw-bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADData/Bridge/0530194-66L79-Design.dgn



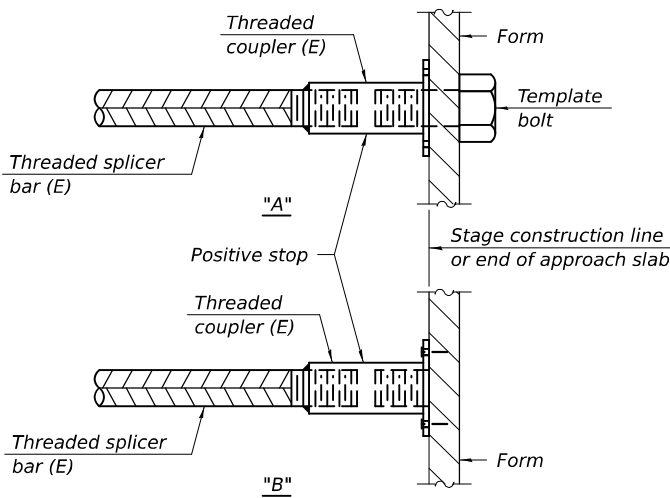
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location              | Bar size | No. assemblies required | Minimum lap length |
|-----------------------|----------|-------------------------|--------------------|
| Slab Top              | #6       | 199                     | 5'-0"              |
| Slab Bottom           | #6       | 154                     | 3'-7"              |
| Over Abutment & Piers | #5       | 8                       | 3'-0"              |
| Approach Slab Top     | #5       | 86                      | 3'-4"              |
| Approach Slab Bottom  | #8       | 114                     | 4'-9"              |
| Approach Slab Footing | #5       | 80                      | 3'-2"              |
| Abutment Caps         | #7       | 20                      | 5'-0"              |
| Pier Caps             | #7       | 14                      | 5'-0"              |
| Pier Walls            | #5       | 48                      | 3'-7"              |

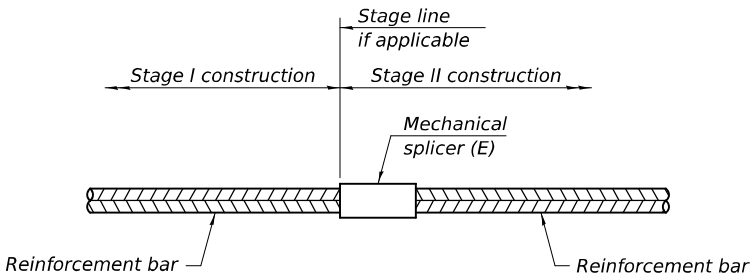


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
|          |          |                         |
|          |          |                         |
|          |          |                         |
|          |          |                         |

Notes:  
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
All reinforcement shall be lapped and tied to the splicer bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

5-15-2023

|            |                   |
|------------|-------------------|
| DESIGNED - | RYAN P. NEGANGARD |
| CHECKED -  | TIFFANY L. ADAMS  |
| DRAWN -    | DENNIS A. POP     |
| CHECKED -  | R.P.N. / T.L.A.   |

|          |                                                                                                                           |
|----------|---------------------------------------------------------------------------------------------------------------------------|
| EXAMINED | <br>ENGINEER OF BRIDGE DESIGN          |
| PASSED   | <br>ENGINEER OF BRIDGES AND STRUCTURES |

|           |           |
|-----------|-----------|
| DATE -    | 10/4/2024 |
| REVISED - |           |
| REVISED - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 053-0194

SHEET 25 OF 29 SHEETS

| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS     | SHEET NO. |
|--------------------|-----------|------------|------------------|-----------|
| 673                | (112BR)ES | LIVINGSTON | 65               | 47        |
| CONTRACT NO. 66L79 |           |            |                  |           |
|                    |           | ILLINOIS   | FED. AID PROJECT |           |

MODEL: 0530194-66L79-026  
FILE NAME: pw://ildot-pw/bentley.com:FWIDOT/Documents/IDOT O ces/Bureau of Bridges and Structures/OBM Projects/0530194/CADDData/Bridge/0530194-66L79-Design.dgn



Illinois Department of Transportation

Division of Highways

Illinois Department of Transportation

ROUTE

FAP 673 (IL 116)

DESCRIPTION

IL 116 over Scattering Point Creek, 0.5 mi W of N 600 E Rd

SECTION

(112BR)ES

LOCATION

NE 1/4, SEC. 25, TWP. 28, RNG. 3E, 3rd PM, Latitude 40.87163, Longitude -88.82465

COUNTY

Livingston

DRILLING METHOD

Hollow Stem Auger

HAMMER TYPE

CME Automatic

STRUCT. NO.

053-0062 (Exlst.)

Station

569+68

BORING NO.

1 (SW Quad)

Station

569+08

Offset

17.3 ft RL

Ground Surface Elev.

656.55

ft

(ft)

(/6")

(tsf)

(%)

Surface Water Elev.

ft

Stream Bed Elev.

ft

Groundwater Elev.:

ft

First Encounter

639.1

ft

Upon Completion

640.6

ft

After

Hrs.

ft

(ft)

(/6")

(tsf)

(%)

Augered Shoulder Stone and Black Silty Clay Loam Fill

654.05

3

3

1.5

26

5

2

2

1.3

36

2

2

1.5

29

646.55-10

WH

1

20

644.05

8

8

10

15

15

5

7

8

3.5

14

3

4

5

2.5

14

636.55-20

Stiff to Very Stiff Gray Silty Loam Till with Sand Layers and Silt Pockets

634.55

4

3

5

2.0

18

7

13

20

3.0

18

9

11

13

2.5

22

629.05

7

11

13

4.2

14

8

14

19

4.4

14

35

9

13

18

4.2

14

620.05

End of Boring

40

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

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 7/19/22

LOGGED BY Larry Myers



Illinois Department of Transportation

Division of Highways

Illinois Department of Transportation

ROUTE

FAP 673 (IL 116)

DESCRIPTION

IL 116 over Scattering Point Creek, 0.5 mi W of N 600 E Rd

SECTION

(112BR)ES

LOCATION

SE 1/4, SEC. 24, TWP. 28, RNG. 3E, 3rd PM, Latitude 40.87173, Longitude -88.8242

COUNTY

Livingston

DRILLING METHOD

Hollow Stem Auger

HAMMER TYPE

CME Automatic

STRUCT. NO.

053-0062 (Exlst.)

Station

569+68

BORING NO.

2 (NE Quad)

Station

570+32

Offset

17.0 ft LT

Ground Surface Elev.

656.57

ft

(ft)

(/6")

(tsf)

(%)

Surface Water Elev.

ft

Stream Bed Elev.

ft

Groundwater Elev.:

ft

First Encounter

644.1

ft

Upon Completion

644.1

ft

After

Hrs.

ft

(ft)

(/6")

(tsf)

(%)

Augered Shoulder Stone, Black Silty Clay Loam Fill

654.07

2

2

1.5

30

5

2

2

1.8

28

3

3

1.5

24

10

3

2

1.5

28

645.07

1

1

4

21

15

4

8

10

3.7

19

1

4

5

2.2

21

20

Very Stiff Gray Silty Clay Loam Till with Sandy Silt Layers (continued)

634.57

4

5

6

2.6

14

10

13

18

2.5

21

6

8

10

2.0

16

629.07

3

8

12

4.2

14

8

12

14

4.6

13

35

9

12

19

4.4

16

620.07

End of Boring

40

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

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 7/19/22

LOGGED BY Larry Myers

|          |   |                   |
|----------|---|-------------------|
| DESIGNED | - | RYAN P. NEGANGARD |
| CHECKED  | - | TIFFANY L. ADAMS  |
| DRAWN    | - | DENNIS A. POP     |
| CHECKED  | - | R.P.N. / T.L.A.   |

|          |                                                                                     |       |   |           |
|----------|-------------------------------------------------------------------------------------|-------|---|-----------|
| EXAMINED |  | DATE  | - | 10/4/2024 |
| PASSED   |  | REVIS | - |           |
|          | ENGINEER OF BRIDGES AND STRUCTURES                                                  | REVIS | - |           |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 053-0194

SHEET 26 OF 29 SHEETS

|                    |           |            |                  |           |
|--------------------|-----------|------------|------------------|-----------|
| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS     | SHEET NO. |
| 673                | (112BR)ES | LIVINGSTON | 65               | 48        |
| CONTRACT NO. 66L79 |           |            |                  |           |
|                    |           | ILLINOIS   | FED. AID PROJECT |           |

10/7/2024 10:52:57 AM



[illegible]

| <br><b>Illinois Department<br/>of Transportation</b><br><small>Division of Highways<br/>IDOT</small>                                                                                                                                                                                                    |                                   | <h1 style="margin: 0;">SOIL BORING LOG</h1> |                             | Page <u>  2  </u> of <u>  2  </u> |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|-----------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| ROUTE <u>          SBI 16          </u> DESCRIPTION <u>          SBI 116 over Scattering Point Creek          </u> LOGGED BY <u>C. I. Bassing</u>                                                                                                                                                       |                                   |                                             |                             | Date <u>  5/28/65  </u>           |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| SECTION <u>          112 BR          </u> LOCATION <u>          NE 1/4, SEC. 25, TWP. 28, RNG. 3E, 3rd PM,          </u>                                                                                                                                                                                |                                   |                                             |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| COUNTY <u>          Livingston          </u> DRILLING METHOD <u>                                </u> HAMMER TYPE <u>                                </u>                                                                                                                                                |                                   |                                             |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| STRUCT. NO. <u>          053-0062          </u><br>Station <u>          569+68          </u><br><br>BORING NO. <u>          1          </u><br>Station <u>          569+57.5          </u><br>Offset <u>          25.5 ft RL          </u><br>Ground Surface Elev. <u>          650.90          </u> ft | D<br>E<br>P<br>T<br>H<br><br>(ft) | B<br>L<br>O<br>W<br>S<br><br>(/6")          | U<br>C<br>S<br><br>Qu (tsf) | M<br>O<br>I<br>S<br>T<br><br>(%)  | Surface Water Elev. <u>          646.59          </u> ft<br>Stream Bed Elev. <u>                                </u> ft<br><br>Groundwater Elev.:<br>First Encounter <u>                                </u> ft<br>Upon Completion <u>          636.2          </u> ft ∇<br>After <u>            </u> Hrs. <u>          616.9          </u> ft ∇ |  |  |  |  |
| Hard Olive Brown & Gray CLAY & CLAY LOAM (Till) (continued)                                                                                                                                                                                                                                             | 53                                | S                                           |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | 51                                | 6.4<br>B                                    |                             | 12                                |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | -45                               | 4.6<br>B                                    |                             | 13                                |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | 52                                | 5.8<br>B                                    |                             | 12                                |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | -50                               | 5.8<br>B                                    |                             | 13                                |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| End of Boring                                                                                                                                                                                                                                                                                           | 600.40<br>47                      | B                                           |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | -55                               |                                             |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                         | -60                               |                                             |                             |                                   |                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |

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

BBS, form 137 (Rev. 8-99)

|                              |                                                                                                |                  |                                                                                                            |                                                                                                     |  |  |  |  |                                                                                                                         |           |            |              |           |
|------------------------------|------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--|--|--|--|-------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------|-----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED  | DATE - 10/4/2024 | <div style="text-align: center;"> <b>STATE OF ILLINOIS</b><br/> <b>DEPARTMENT OF TRANSPORTATION</b> </div> | <div style="text-align: center;"> <b>SOIL BORING LOGS</b><br/> <b>STRUCTURE NO. 053-0194</b> </div> |  |  |  |  | F.A.P. RTE.                                                                                                             | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
| CHECKED - TIFFANY L. ADAMS   | ENGINEER OF BRIDGE DESIGN                                                                      |                  |                                                                                                            |                                                                                                     |  |  |  |  | 673                                                                                                                     | (112BR)ES | LIVINGSTON | 65           | 49        |
| DRAWN - DENNIS A. POP        | PASSED    | REVISED -        |                                                                                                            | <div style="text-align: center;"> SHEET 27 OF 29 SHEETS </div>                                      |  |  |  |  | CONTRACT NO. 66L79                                                                                                      |           |            |              |           |
| CHECKED - R.P.N. / T.L.A.    | ENGINEER OF BRIDGES AND STRUCTURES                                                             | REVISED -        |                                                                                                            |                                                                                                     |  |  |  |  | <div style="display: flex; justify-content: space-between;"> <span>ILLINOIS</span> <span>FED. AID PROJECT</span> </div> |           |            |              |           |

**Illinois Department  
of Transportation**  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 2

Date 6/3/65

ROUTE SBI 16 DESCRIPTION SBI 116 over Scattering Point Creek LOGGED BY C. I. Bassing

SECTION 112 BR LOCATION NE 1/4, SEC. 25, TWP. 28, RNG. 3E, 3rd PM.

COUNTY Livingston DRILLING METHOD \_\_\_\_\_ HAMMER TYPE \_\_\_\_\_

STRUCT. NO. 053-0062  
Station 569+68

BORING NO. 2  
Station 569+20  
Offset 27.0 ft Rt.  
Ground Surface Elev. 651.14 ft

| D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S | M<br>O<br>I<br>S<br>T |
|-----------------------|-----------------------|-------------|-----------------------|
| (ft)                  | (/6")                 | (tsf)       | (%)                   |

| Surface Water Elev. | Stream Bed Elev. |
|---------------------|------------------|
| <u>646.59</u> ft    | _____ ft         |

| Groundwater Elev.:                   |
|--------------------------------------|
| First Encounter _____ ft             |
| Upon Completion <u>Wash bored</u> ft |
| After _____ Hrs. _____ ft            |

| D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S | M<br>O<br>I<br>S<br>T |
|-----------------------|-----------------------|-------------|-----------------------|
| (ft)                  | (/6")                 | (tsf)       | (%)                   |

|                                                  |     |       |    |                                                                            |        |       |       |
|--------------------------------------------------|-----|-------|----|----------------------------------------------------------------------------|--------|-------|-------|
| Stiff to Medium Brownish Black & Gray SILTY CLAY |     |       |    | Very Stiff Gray CLAY LOAM (Till) (continued)                               | 17     | B     |       |
|                                                  |     |       |    | 630.14                                                                     |        |       |       |
|                                                  |     |       |    | Hard Brownish Gray SILTY CLAY (Till)                                       |        |       |       |
|                                                  |     | 1.0 E | 28 |                                                                            |        | 6.4 S | 13    |
|                                                  | 6   |       |    |                                                                            |        | 25    |       |
|                                                  |     |       |    |                                                                            |        |       |       |
|                                                  | -5  | 0.8 B | 24 |                                                                            | -25    | 4.8 S | 15    |
|                                                  |     |       |    |                                                                            |        |       |       |
| 645.14                                           | 2   |       |    |                                                                            | 31     |       |       |
|                                                  |     |       |    | Very Stiff Gray SILTY CLAY                                                 |        |       |       |
|                                                  |     |       |    | .Very Stiff Brownish Gray SILTY LOAM                                       |        |       |       |
|                                                  |     | 2.9 S | 17 |                                                                            |        | 2.1 S | 15    |
|                                                  | 15  |       |    |                                                                            |        | 74    |       |
| 642.64                                           |     |       |    |                                                                            |        |       |       |
| Hard Gray CLAY & CLAY Loam (Till)                |     |       |    |                                                                            |        |       |       |
|                                                  | -10 | 4.6 B | 15 |                                                                            | -30    | 2.6 S | 22    |
|                                                  |     |       |    |                                                                            |        | 38    |       |
|                                                  |     |       |    |                                                                            |        |       |       |
|                                                  |     | 3.9 B | 16 |                                                                            |        | 54    | 4.1 S |
|                                                  | 19  |       |    |                                                                            |        |       | 15    |
| 637.64                                           |     |       |    |                                                                            |        |       |       |
| Stiff Gray CLAY LOAM (Till)                      |     |       |    | Very Dense Brownish Gray & Gray Angular to Sub Angular Fine to COARSE SAND | 617.64 |       |       |
|                                                  | -15 | 1.4 B | 16 |                                                                            | -35    |       |       |
|                                                  |     |       |    |                                                                            |        | 128   |       |
| 635.14                                           | 9   |       |    |                                                                            |        |       |       |
| Medium Gray Angular Coarse SAND                  |     |       |    |                                                                            |        |       |       |
| 634.14                                           |     |       |    |                                                                            |        |       |       |
| Hard Gray CLAY LOAM (Till)                       |     | 7.2 S | 13 |                                                                            |        | 93    |       |
|                                                  | 25  |       |    |                                                                            |        |       |       |
| 632.64                                           |     |       |    |                                                                            | 612.64 |       |       |
| Very Stiff Gray CLAY LOAM (Till)                 |     |       |    | Hard Olive Brown & Gray CLAY & CLAY LOAM (Till)                            |        |       |       |
|                                                  | -20 | 2.9   | 12 |                                                                            | -40    | 5.8   | 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, form 137 (Rev. 8-99)

[illegible]

|                              |                                                                                                |                  |                                                                                                            |                                                                                                     |  |  |  |  |                                                             |           |            |              |           |
|------------------------------|------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--|--|--|--|-------------------------------------------------------------|-----------|------------|--------------|-----------|
| DESIGNED - RYAN P. NEGANGARD | EXAMINED  | DATE - 10/4/2024 | <div style="text-align: center;"> <b>STATE OF ILLINOIS</b><br/> <b>DEPARTMENT OF TRANSPORTATION</b> </div> | <div style="text-align: center;"> <b>SOIL BORING LOGS</b><br/> <b>STRUCTURE NO. 053-0194</b> </div> |  |  |  |  | F.A.P. RTE.                                                 | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
| CHECKED - TIFFANY L. ADAMS   | ENGINEER OF BRIDGE DESIGN                                                                      |                  |                                                                                                            |                                                                                                     |  |  |  |  | 673                                                         | (112BR)ES | LIVINGSTON | 65           | 50        |
| DRAWN - DENNIS A. POP        | PASSED    | REVISED -        |                                                                                                            | <div style="text-align: center;"> SHEET 28 OF 29 SHEETS </div>                                      |  |  |  |  | <div style="text-align: center;"> CONTRACT NO. 66L79 </div> |           |            |              |           |
| CHECKED - R.P.N. / T.L.A.    | ENGINEER OF BRIDGES AND STRUCTURES                                                             | REVISED -        |                                                                                                            |                                                                                                     |  |  |  |  |                                                             |           |            |              |           |
|                              |                                                                                                |                  |                                                                                                            | <div style="text-align: center;"> ILLINOIS FED. AID PROJECT </div>                                  |  |  |  |  |                                                             |           |            |              |           |

**Illinois Department  
of Transportation**  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 1 of 2

Date 6/7/65

ROUTE SBI 16 DESCRIPTION SBI 116 over Scattering Point Creek LOGGED BY C. I. Bassing

SECTION 112 BR LOCATION NE 1/4, SEC. 25, TWP. 28, RNG. 3E, 3rd PM.

COUNTY Livingston DRILLING METHOD \_\_\_\_\_ HAMMER TYPE \_\_\_\_\_

STRUCT. NO. 053-0062  
Station 569+68

BORING NO. 3  
Station 570+07.5  
Offset 25.0 ft Lt.  
Ground Surface Elev. 654.49 ft

| D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S | M<br>O<br>I<br>S<br>T |
|-----------------------|-----------------------|-------------|-----------------------|
|                       | Qu                    | (tsf)       | (%)                   |

Surface Water Elev. 646.59 ft  
Stream Bed Elev. \_\_\_\_\_ ft  
  
Groundwater Elev.:  
First Encounter \_\_\_\_\_ ft  
Upon Completion Wash bored ft  
After \_\_\_\_\_ Hrs. \_\_\_\_\_ ft

| D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S | M<br>O<br>I<br>S<br>T |
|-----------------------|-----------------------|-------------|-----------------------|
|                       | Qu                    | (tsf)       | (%)                   |

|                                                            |     |     |    |                                             |     |     |    |
|------------------------------------------------------------|-----|-----|----|---------------------------------------------|-----|-----|----|
| Very Stiff Brownish Black & Gray CLAY & SILTY CLAY         |     |     |    | Surface Gray CLAY LOAM (Till) (continued)   | 17  | S   |    |
|                                                            |     |     |    |                                             |     |     |    |
|                                                            |     | 2.0 | 19 |                                             |     |     |    |
|                                                            | 6   | E   |    |                                             |     | 1.5 | 12 |
|                                                            |     |     |    | 630.99                                      |     |     |    |
|                                                            |     |     |    | Hard Brownish GRAY SILTY CLAY (Till)        |     |     |    |
|                                                            | -5  | 2.5 | 24 |                                             | -25 | 6.1 | 12 |
|                                                            | 11  | S   |    |                                             |     |     |    |
| 648.49                                                     |     |     |    | 628.49                                      |     |     |    |
| Soft Yellowish Brown SILTY CLAY                            |     | 0.3 | 23 | Medium Brownish Gray SILTY LOAM             |     |     |    |
| 647.49                                                     |     | B   |    |                                             |     |     |    |
| Very Stiff Yellowish Brown & Gray CLAY & SILTY CLAY (Till) | 7   | 2.3 | 22 |                                             |     | 0.8 | 20 |
|                                                            |     | B   |    | 625.99                                      |     |     |    |
|                                                            |     |     |    | Very Stiff Brownish Gray SILTY LOAM         |     |     |    |
|                                                            | -10 | 2.5 | 18 |                                             | -30 | 3.7 | 21 |
|                                                            | 12  | S   |    |                                             |     |     |    |
| 643.49                                                     |     |     |    | 623.49                                      |     |     |    |
| Hard Gray CLAY (Till)                                      |     | 5.0 | 20 | Hard to Very Stiff Brownish Gray SILTY CLAY |     |     |    |
| 641.99                                                     |     | 2.5 | 20 |                                             |     | 5.6 | 18 |
| Very Stiff Gray CLAY & CLAY LOAM (Till)                    | 21  | S   |    |                                             |     |     |    |
|                                                            |     |     |    |                                             | 30  | S   |    |
|                                                            | -15 | 2.1 | 12 |                                             | -35 | 3.7 | 20 |
|                                                            | 12  | B   |    |                                             |     |     |    |
| 638.49                                                     |     |     |    | 618.49                                      |     |     |    |
| Medium Gray CLAY & CLAY LOAM (Till)                        |     |     |    | Very Stiff Brownish Gray SILTY LOAM         |     |     |    |
|                                                            |     | 0.8 | 16 |                                             |     | 2.1 | 23 |
|                                                            | 10  | B   |    |                                             |     |     |    |
| 635.99                                                     |     |     |    | 615.99                                      |     |     |    |
| Stiff Gray CLAY LOAM (Till)                                |     |     |    | Medium Gray Angular Fine to COARSE SAND     |     |     |    |
|                                                            | -20 | 1.9 | 20 |                                             | -40 |     |    |

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

BBS, form 137 (Rev. 8-99)

**Illinois Department  
of Transportation**  
Division of Highways  
IDOT

# SOIL BORING LOG

Page 2 of 2

Date 6/7/65

ROUTE SBI 16 DESCRIPTION SBI 116 over Scattering Point Creek LOGGED BY C. I. Bassing

SECTION 112 BR LOCATION NE 1/4, SEC. 25, TWP. 28, RNG. 3E, 3rd PM.

COUNTY Livingston DRILLING METHOD  HAMMER TYPE

STRUCT. NO. 053-0062  
Station 569+68

BORING NO. 3  
Station 570+07.5  
Offset 25.0 ft LL  
Ground Surface Elev. 654.49 ft

| D<br>E<br>P<br>T<br>H | B<br>L<br>O<br>W<br>S | U<br>C<br>S | M<br>O<br>I<br>S<br>T |
|-----------------------|-----------------------|-------------|-----------------------|
|                       |                       | Qu          |                       |

Surface Water Elev. 646.59 ft  
Stream Bed Elev.  ft

Groundwater Elev.:  
First Encounter  ft  
Upon Completion Wash bored ft  
After  Hrs.  ft

Medium Gray Angular Fine to  
COARSE SAND (continued) 613.49

Very Dense Angular to Sub  
Angular Fine to Coarse SAND

14

195

-45  
88

608.49  
Hard Yellowish Brown & Gray  
CLAY LOAM (Till)

85  
4.1  
S

-50  
603.99  
46  
5.8  
B

End of Boring

-55

-60

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

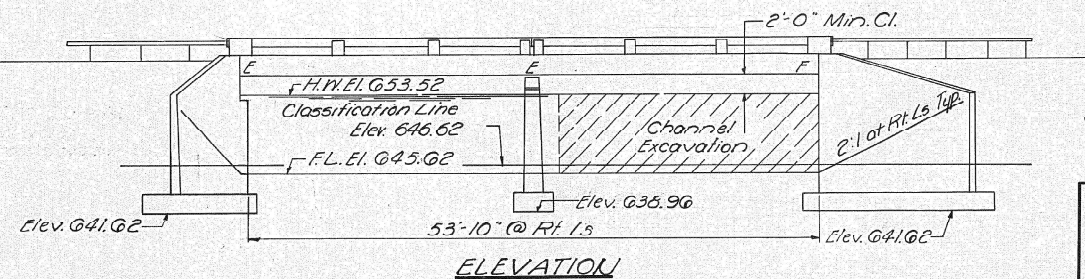
BBS, form 137 (Rev. 8-99)



B.M. #71 on top S.W. wingwall of Bridge.  
17' Rt. Sta. 569 + 17 El. 656.19.  
Existing Structure 150' R.C.D. Girder on RC Abuts. 20.3' Rdwy.  
Contractor shall remove portions that  
interfere with new construction, except W. Abut. shall remain  
in place, as specified, to support approach pavement.

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

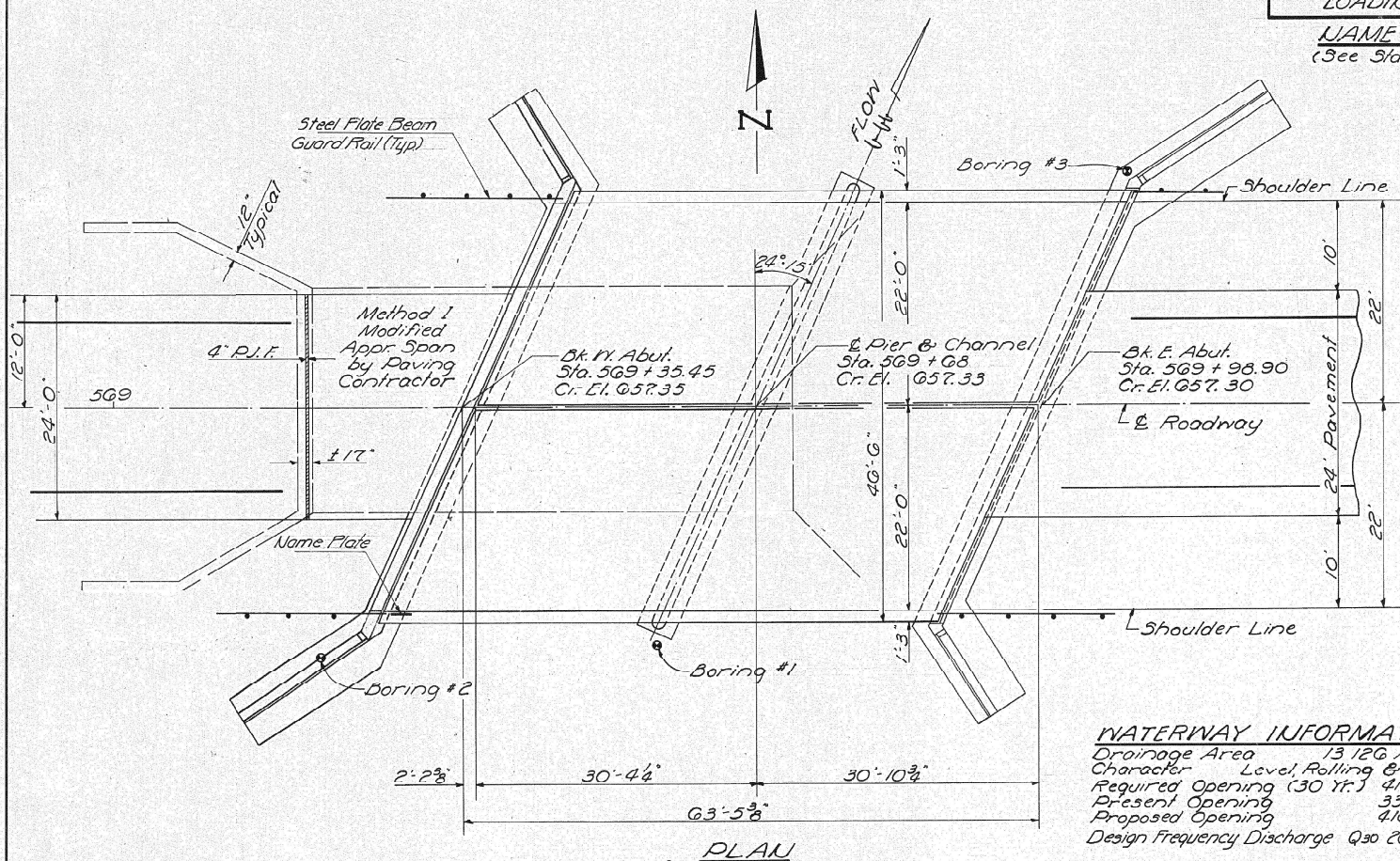
| ROUTE NO.                                        | SECTION | COUNTY     | TOTAL SHEETS | SHEET NO. | SHEET NO. 1 |
|--------------------------------------------------|---------|------------|--------------|-----------|-------------|
| 147                                              | 112 BR  | LIVINGSTON | 139          | 42        | G SHEETS    |
| FED. ROAD DIST. NO. Y ILLINOIS FED. AID PROJECT: |         |            |              |           |             |



PROPOSED TYPICAL X-SEC.  
OF CHANNEL RELOCATION

STATION 569 + 68  
BUILT 196 BY  
STATE OF ILLINOIS  
S.B.I. RT. 116 - SEC. 112 - BR  
F.A. PROJ. F-395 (14)  
LOADING H320

NAME PLATE  
(See Std. 2113-1)



**WATERWAY INFORMATION**  
Drainage Area 13.126 Acres  
Character Level, Rolling & Cultivated  
Required Opening (30 yr.) 410 Sq. Ft.  
Present Opening 332 Sq. Ft.  
Proposed Opening 410 Sq. Ft.  
Design Frequency Discharge Q30 2050 c.f.s.

**GENERAL NOTES**  
Calculated Weight of Structural Steel = 7340 Lbs  
All reinforcement bars shall be lapped 34 diameters unless  
otherwise shown.  
The cost of pavement removal shall be incidental to Class A  
Excavation for Structures.  
Handrail concrete shall be used in the rail and rail posts. Rail shall be  
poured in separate operation from interior rail posts.  
The Contractor shall make allowance for the deflection of forms, shrinkage  
and settlement of falsework, in addition to allowance for dead load deflection.  
Except as otherwise provided, all Structural Steel shall receive  
one shop coat of red lead paint and two field coats of aluminum  
paint.  
The following surfaces of the bridge shall be waterproofed:  
the backs of the abuts. above the lower construction joint and the  
backs of the wings above the top of the footings.

**TOTAL BILL OF MATERIAL**

| Item                              | Unit     | Super.   | Sub.   | Total    |
|-----------------------------------|----------|----------|--------|----------|
| Channel Excavation                | Cu. Yds. |          |        | 5924     |
| Removal of Existing Structures    | Each     |          |        | 1        |
| Class A Excavation for Structures | Cu. Yds. |          |        | 425      |
| Class B Excavation for Structures | Cu. Yds. |          |        | 580      |
| Structural Steel                  | Lump Sum | Lump Sum |        | Lump Sum |
| Handrail Concrete                 | Cu. Yds. | 3.7      |        | 3.7      |
| Class A Concrete                  | Cu. Yds. |          | 67.4   | 67.4     |
| Class X Concrete                  | Cu. Yds. | 155.0    | 192.1  | 347.1    |
| Reinforcement Bars                | Lbs.     | 41,080   | 21,730 | 62,810   |
| Name Plates                       | Each     | 1        |        | 1        |
| Protective Coat                   | Sq. Yds. |          | 350    | 350      |
| Preformed Joint Sealer            | Lin. Ft. | 52       |        | 52       |

**GENERAL PLAN & ELEVATION**  
S.B.I. RT. 116 (F.A. 147)  
OVER SCATTERING PT. CREEK  
SEC. 112 - BR  
LIVINGSTON COUNTY  
STA. 569 + 68

**DESIGN STRESSES**

$f_c = 1400$  p.s.i. (Super.)  
 $f_s = 20,000$  p.s.i. (Reinf. & Strud.)  
 $V_c = 75$  p.s.i. (Figs.)  
 $f_c = 1000$  p.s.i. (Sub.)  $n = 10$   
LOADING H320-44

PROFILE S.B.I. 116 (F.A. 147)

|          |                |          |            |
|----------|----------------|----------|------------|
| DESIGNED | Harish Vermani | EXAMINED | May 6 1966 |
| CHECKED  | AP Henderson   | PASSED   |            |
| DRAWN    | H.V. Jacobs    | APPROVED |            |
| CHECKED  | APH            |          |            |

Rev. 7/15/69 S.Y.K. Rev. 1/2/70 Rao. G.K.

**FOR INFORMATION ONLY**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**EXISTING STRUCTURE PLANS**

|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
|                          | DRAWN -    | REVISED - |
|                          | CHECKED -  | REVISED - |
| PLOT DATE = 8/8/2024     | DATE -     | REVISED - |

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE.               | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)BR | LIVINGSTON | 65           | 52        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

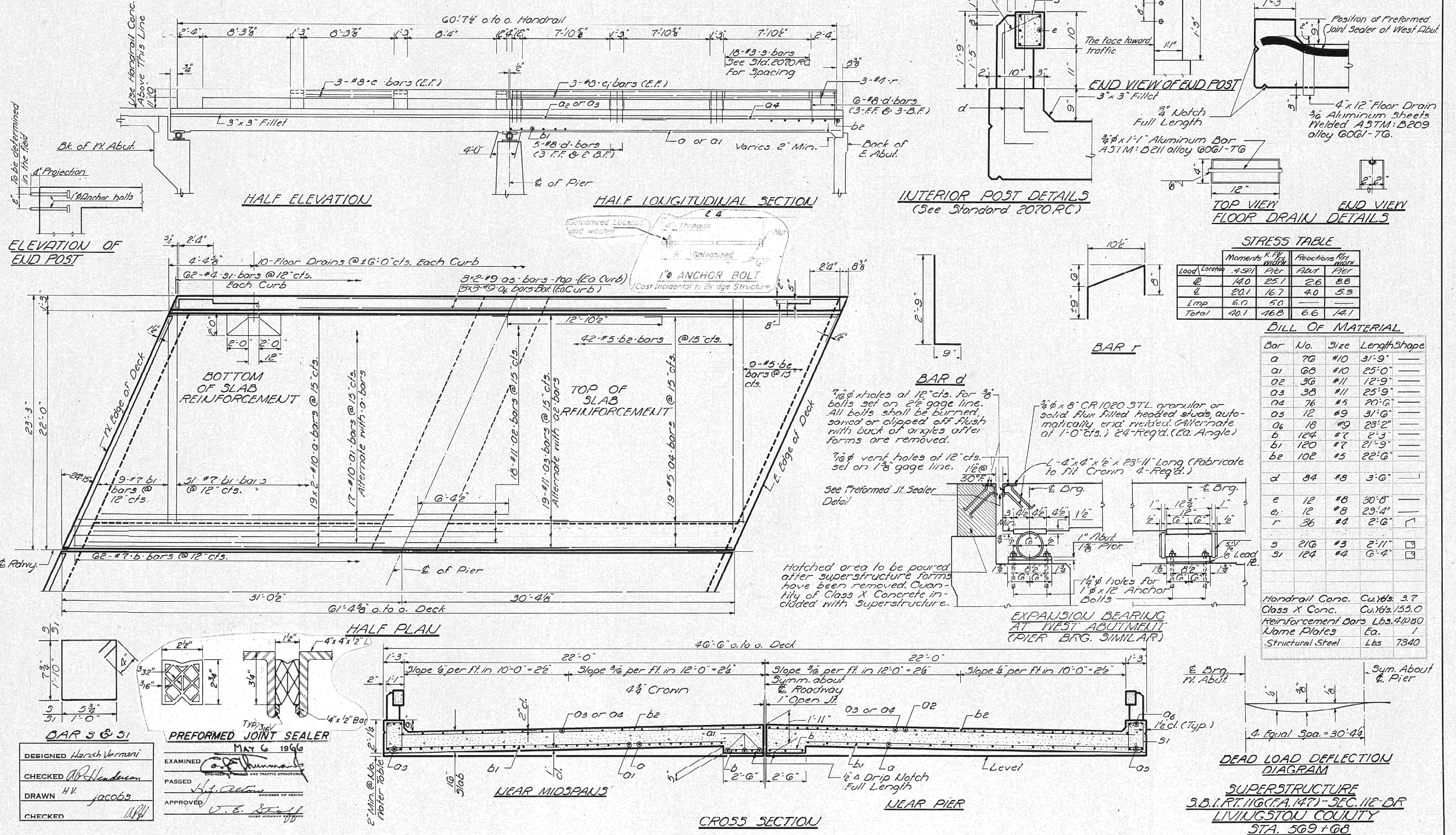


Note: Order b<sub>1</sub> & b<sub>2</sub> bars full length, cut to fit skew and use remainder of bars in opposite end.  
Bars indicated thus 20x3-#5 etc., indicates 20 lines of bars with 3 lengths per line.  
Min. bar laps = 2d dia.

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

Note: For Handrail Details see Standard 2070 R.C.

| SHEET NO. | SECTION | COUNTY     | TOTAL SHEETS | SHEET NO. | SHEET NO. |
|-----------|---------|------------|--------------|-----------|-----------|
| 147       | 112 BR  | LIVINGSTON | 139          | 43        | G SHEETS  |



FOR INFORMATION ONLY

|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
| DRAWN -                  | REVISOR -  |           |
| CHECKED -                | REVISOR -  |           |
| PLOT DATE = 8/8/2024     | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

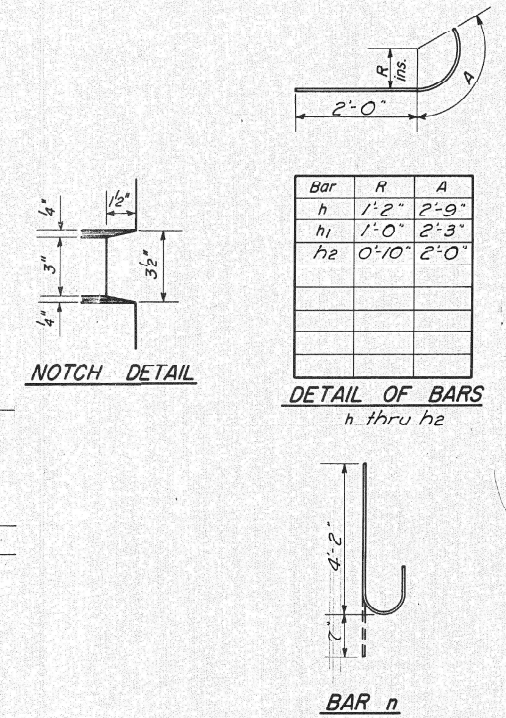
| F.A.P. RTE.        | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------|------------|--------------|-----------|
| 673                | (112BR)BR | LIVINGSTON | 65           | 53        |
| CONTRACT NO. 66L79 |           |            |              |           |

ILLINOIS FED. AID PROJECT



| ROUTE NO.             | SECTION | COUNTY     | TOTAL SHEETS      | SHEET NO. |
|-----------------------|---------|------------|-------------------|-----------|
| S. R. L.<br>F. R. 147 | 112BR   | LIVINGSTON | 139               | 44        |
| FED. ROAD DIST. NO. 7 |         | ILLINOIS   | FED. AID PROJECT. |           |

SHEET NO. 3  
6 SHEETS

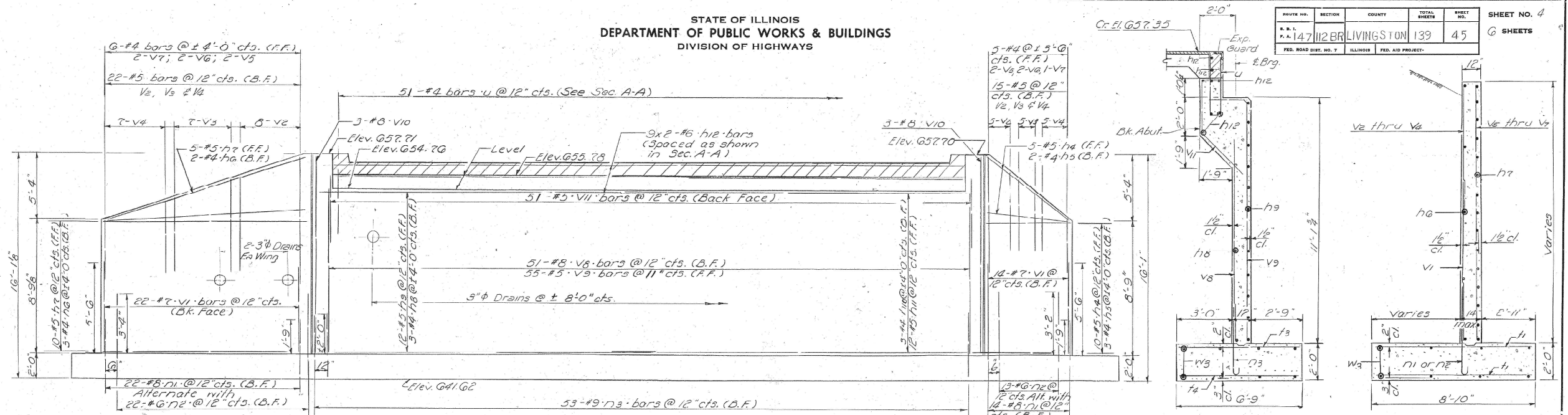
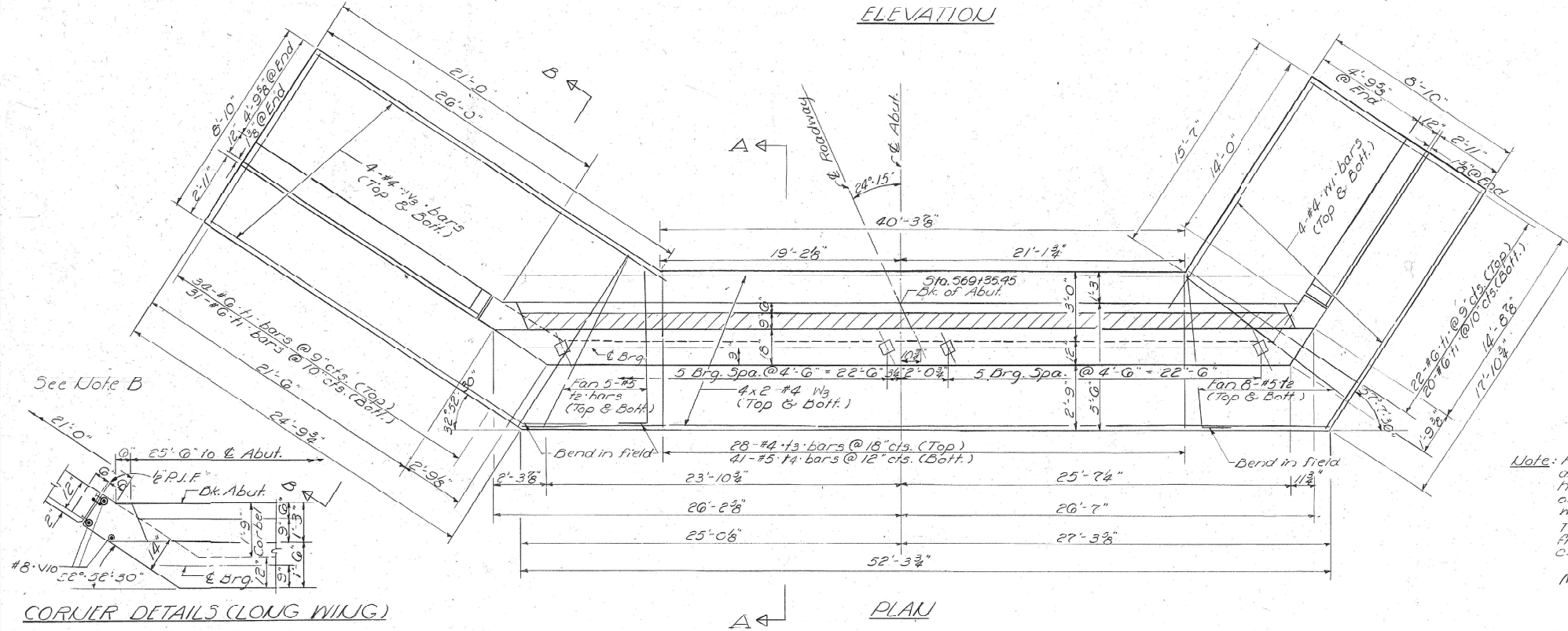


| <u>BILL OF MATERIAL</u> |     |      |          |       |
|-------------------------|-----|------|----------|-------|
| Bar                     | No. | Size | Length   | Shape |
| b                       | 16  | #1   | 1'-9"    | ┐     |
| b1                      | 20  | #4   | 4'-3"    | ┐     |
| b2                      | 20  | #4   | 4'-0"    | ┐     |
| b3                      | 56  | #4   | 25'-9"   | —     |
|                         |     |      |          |       |
| n                       | 108 | #5   | 4'-9"    | C     |
|                         |     |      |          |       |
| t                       | 35  | #5   | 5'-9"    | —     |
|                         |     |      |          |       |
| v                       | 108 | #5   | 13'-6"   | —     |
|                         |     |      |          |       |
|                         |     |      |          |       |
| w                       | 10  | #5   | 27'-6"   | —     |
|                         |     |      |          |       |
| Class A Concrete        |     |      | Cu. Yds. | 87.1  |
| Reinforcement Bars      |     |      | Lbs.     | 3500  |
|                         |     |      |          |       |

PIER  
S.B.I. RT. 116 (FA. 142) - SEC. 112 - BR  
LIVINGSTON COUNTY  
STA. 569+68

**FOR INFORMATION ONLY**

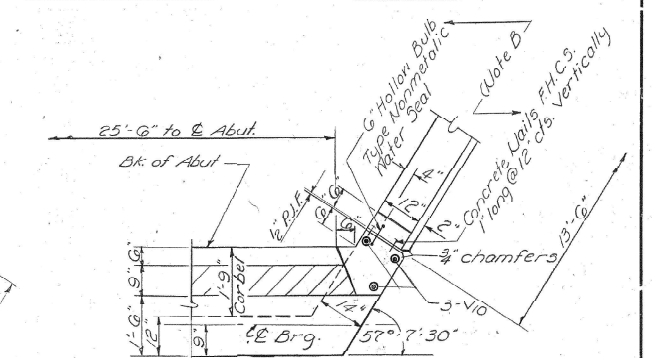


ELEVATION

PLAN

SECTION A-A

SECTION B-B



CORNER DETAILS  
(SHORT WALL)

Note: Hatched Area to be poured after Superstructure forms have been removed. Quantity of Class X Concrete included with Superstructure.  
The cost of all premolded joint filler shall be incidental to Class "X" Concrete.

Max. Footing Pressure - 1.65 T.s.f.

CORNER DETAILS (LONG WING)

|          |                        |          |                        |
|----------|------------------------|----------|------------------------|
| DESIGNED | <i>David Jacobs</i>    | EXAMINED | <i>Carl Himmelfarb</i> |
| CHECKED  | <i>A. H. Henderson</i> | PASSED   | <i>H. J. Rogers</i>    |
| DRAWN    | <i>David Jacobs</i>    | APPROVED | <i>J. E. R. S. L.</i>  |
| CHECKED  | <i>A. H. Henderson</i> |          |                        |

WEST ABUTMENT  
S.B.1. RT116 (F.A.147) SEC. 112 - Dr.  
LIVINGSTON COUNTY  
STA. 569 + 68

Work this Sheet with Sheet 5

## FOR INFORMATION ONLY

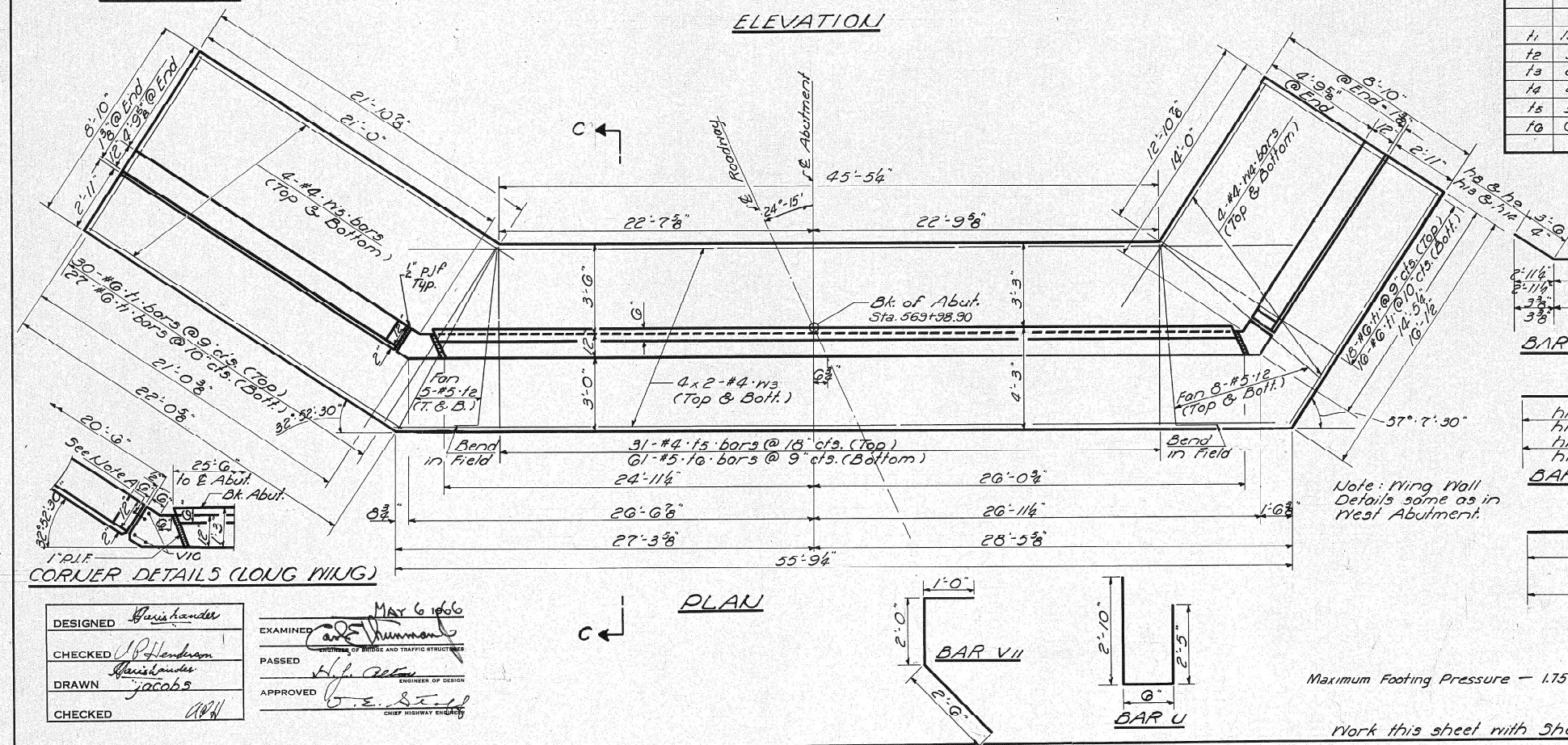
|                          |            |           |                                                   |                          |       |    |        |               |           |            |                 |              |
|--------------------------|------------|-----------|---------------------------------------------------|--------------------------|-------|----|--------|---------------|-----------|------------|-----------------|--------------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | EXISTING STRUCTURE PLANS |       |    |        | F.A.P<br>RTE. | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|                          | DRAWN -    | REVISED - |                                                   |                          |       |    |        | 673           | (112BR)BR | LIVINGSTON | 65              | 55           |
|                          | CHECKED -  | REVISED - |                                                   | CONTRACT NO. 66L79       |       |    |        |               |           |            |                 |              |
| PLOT DATE = 8/8/2024     | DATE -     | REVISED - |                                                   | SCALE:                   | SHEET | OF | SHEETS | STA.          | TO STA.   |            |                 |              |





| Bar                   | No. | Size | Length | Shape |
|-----------------------|-----|------|--------|-------|
| <i>h<sub>1</sub></i>  | 30  | #5   | 13'3"  | —     |
| <i>h<sub>2</sub></i>  | 10  | #4   | 13'3"  | —     |
| <i>h<sub>3</sub></i>  | 10  | #4   | 20'3"  | —     |
| <i>h<sub>4</sub></i>  | 30  | #5   | 20'3"  | —     |
| <i>h<sub>5</sub></i>  | 3   | #4   | 28'0"  | —     |
| <i>h<sub>6</sub></i>  | 12  | #5   | 28'0"  | —     |
| <i>h<sub>10</sub></i> | 3   | #4   | 28'0"  | /     |
| <i>h<sub>11</sub></i> | 12  | #5   | 27'0"  | —     |
| <i>h<sub>12</sub></i> | 18  | #10  | 25'0"  | —     |
| <i>h<sub>13</sub></i> | 13  | #5   | 27'3"  | —     |
| <i>h<sub>14</sub></i> | 4   | #4   | 27'3"  | —     |
| <i>h<sub>15</sub></i> | 13  | #5   | 28'3"  | —     |
| <i>h<sub>16</sub></i> | 4   | #4   | 27'9"  | —     |
|                       |     |      |        |       |
|                       |     |      |        |       |
|                       |     |      |        |       |
|                       |     |      |        |       |
|                       |     |      |        |       |
|                       |     |      |        |       |
|                       |     |      |        |       |
| <i>n<sub>1</sub></i>  | 155 | #8   | 4'-7"  | U     |
| <i>n<sub>2</sub></i>  | 70  | #6   | 5'-9"  | U     |
| <i>n<sub>3</sub></i>  | 53  | #9   | 5'-0"  | U     |
|                       |     |      |        |       |
| <i>t<sub>1</sub></i>  | 198 | #6   | 8'-6"  | —     |
| <i>t<sub>2</sub></i>  | 52  | #5   | 8'-6"  | —     |
| <i>t<sub>3</sub></i>  | 28  | #4   | 6'-6"  | —     |
| <i>t<sub>4</sub></i>  | 41  | #5   | 6'-6"  | —     |
| <i>t<sub>5</sub></i>  | 31  | #4   | 7'-3"  | —     |
| <i>t<sub>6</sub></i>  | 61  | #5   | 7'-3"  | —     |

| <i>Bor</i>           | <i>No.</i> | <i>Size</i> | <i>Length</i> | <i>Shape</i> |
|----------------------|------------|-------------|---------------|--------------|
| <i>U</i>             | <i>51</i>  | <i>#4</i>   | <i>5'-9"</i>  |              |
| <i>V1</i>            | <i>72</i>  | <i>#7</i>   | <i>5'-6"</i>  |              |
| <i>V2</i>            | <i>20</i>  | <i>#5</i>   | <i>9'-9"</i>  |              |
| <i>V3</i>            | <i>24</i>  | <i>#5</i>   | <i>8'-0"</i>  |              |
| <i>V4</i>            | <i>24</i>  | <i>#5</i>   | <i>6'-3"</i>  |              |
| <i>V5</i>            | <i>8</i>   | <i>#4</i>   | <i>13'-9"</i> |              |
| <i>V6</i>            | <i>8</i>   | <i>#4</i>   | <i>12'-0"</i> |              |
| <i>V7</i>            | <i>G</i>   | <i>#4</i>   | <i>10'-3"</i> |              |
| <i>V8</i>            | <i>51</i>  | <i>#8</i>   | <i>9'-0"</i>  |              |
| <i>V9</i>            | <i>55</i>  | <i>#5</i>   | <i>10'-9"</i> |              |
| <i>V10</i>           | <i>12</i>  | <i>#8</i>   | <i>13'-9"</i> |              |
| <i>V11</i>           | <i>51</i>  | <i>#5</i>   | <i>5'-6"</i>  |              |
| <i>V12</i>           | <i>52</i>  | <i>#4</i>   | <i>12'-6"</i> |              |
| <i>V13</i>           | <i>40</i>  | <i>#8</i>   | <i>11'-6"</i> |              |
| <i>V14</i>           | <i>39</i>  | <i>#8</i>   | <i>4'-6"</i>  |              |
| <i>n1</i>            | <i>8</i>   | <i>#4</i>   | <i>12'-6"</i> |              |
| <i>n3</i>            | <i>40</i>  | <i>#4</i>   | <i>28'-6"</i> |              |
| <i>n4</i>            | <i>8</i>   | <i>#4</i>   | <i>15'-9"</i> |              |
| <i>n5</i>            | <i>8</i>   | <i>#4</i>   | <i>21'-6"</i> |              |
| <i>Class X Conc.</i> |            |             | <i>Cu.Yd.</i> | <i>192.1</i> |
| <i>Reinf. Bors</i>   |            |             | <i>Lbs.</i>   | <i>17930</i> |



Maximum Footing Pressure — 1.75 Tsf.

Work this sheet with Sheet 4.

EAST ABUTMENT  
S.B.1 RT 116 (FA 147) SFC. 112-BR  
LIVINGSTON COUNTY  
STA. 569 + 68

# FOR INFORMATION ONLY





- (A)

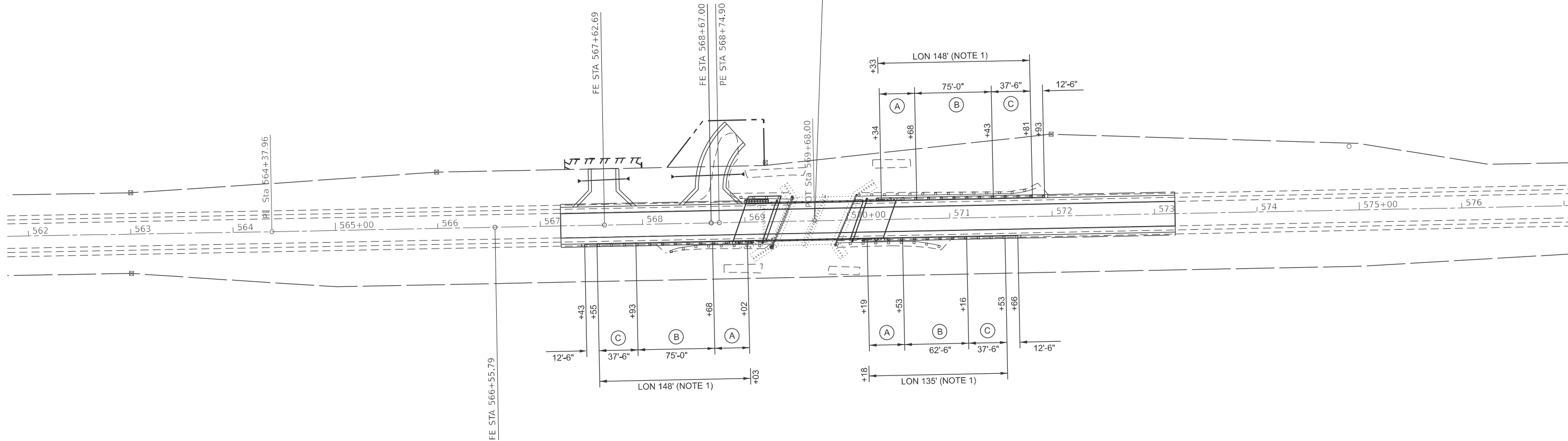
TBT TY 13: MEASURED FROM FIRST POST OF GUARD RAIL.
- (B)

SPBGR TY A 6 FT
- (C)

TBT TY 1 (SP) TANG

NOTES  
1 - THE LENGTH OF NEED IS MEASURED FROM END OF IL-OH RAILING.

STA 569+68.00 CENTERLINE FAP 673  
EXISTING STRUCTURE SN 053-0062  
PROPOSED STRUCTURE SN 053-0194



MODEL: Default  
FILE NAME: c:\p\work\p\work\zagar\k1008618\66L79-GUARDRAIL\_DETAIL.dgn

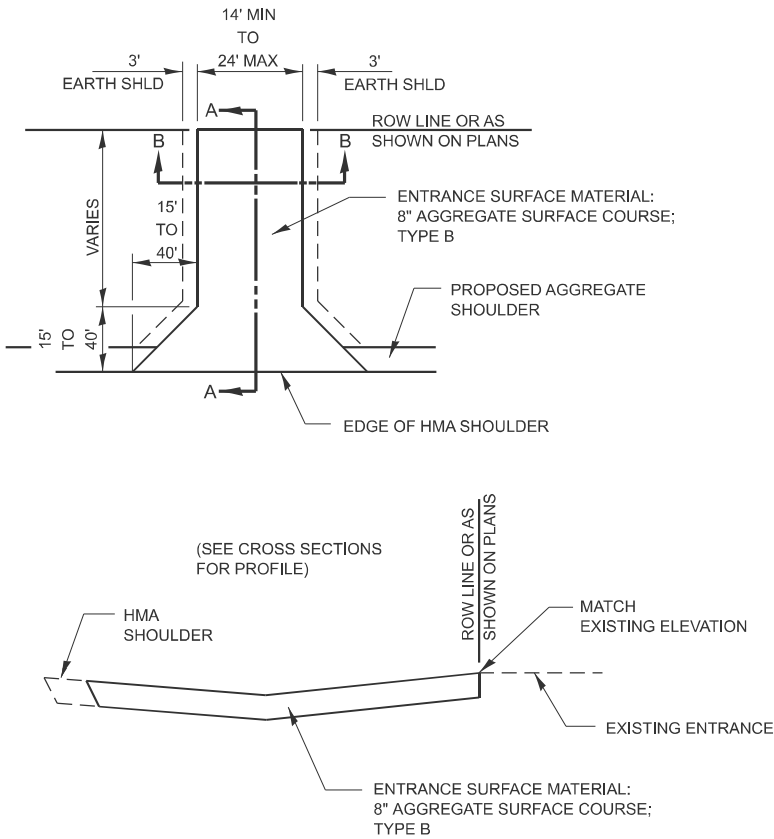
|                          |            |           |
|--------------------------|------------|-----------|
| USER NAME = Joseph.Zagar | DESIGNED - | REVISED - |
|                          | DRAWN -    | REVISED - |
|                          | CHECKED -  | REVISED - |
| PLOT DATE = 7/24/2024    | DATE -     | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

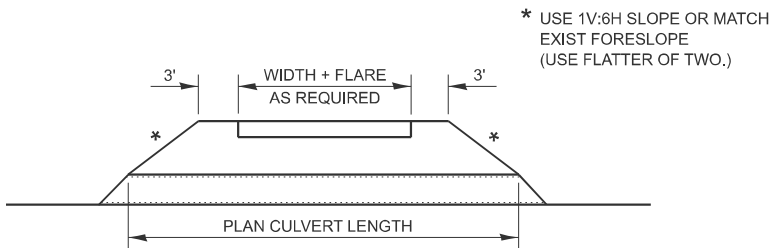
GUARDRAIL DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P RTE.                | SECTION   | COUNTY     | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|------------|--------------|-----------|
| 673                       | (112BR)ES | LIVINGSTON | 65           | 57        |
| CONTRACT NO. 66L79        |           |            |              |           |
| ILLINOIS FED. AID PROJECT |           |            |              |           |

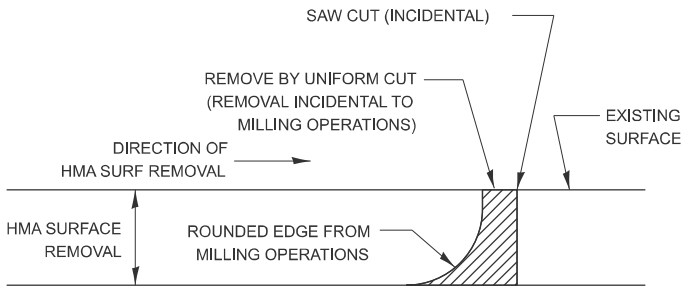


**SECTION A-A**



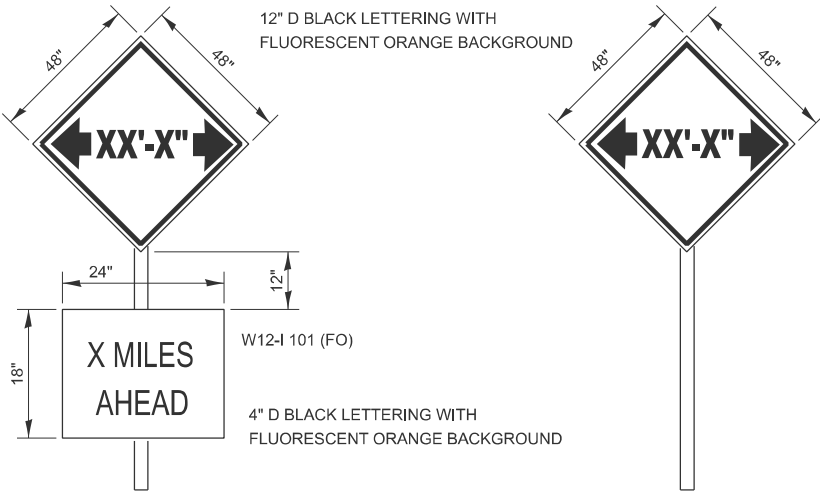
**SECTION B-B**

**FIELD ENTRANCE DETAIL**



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 BUTT JOINT SAW CUTS**

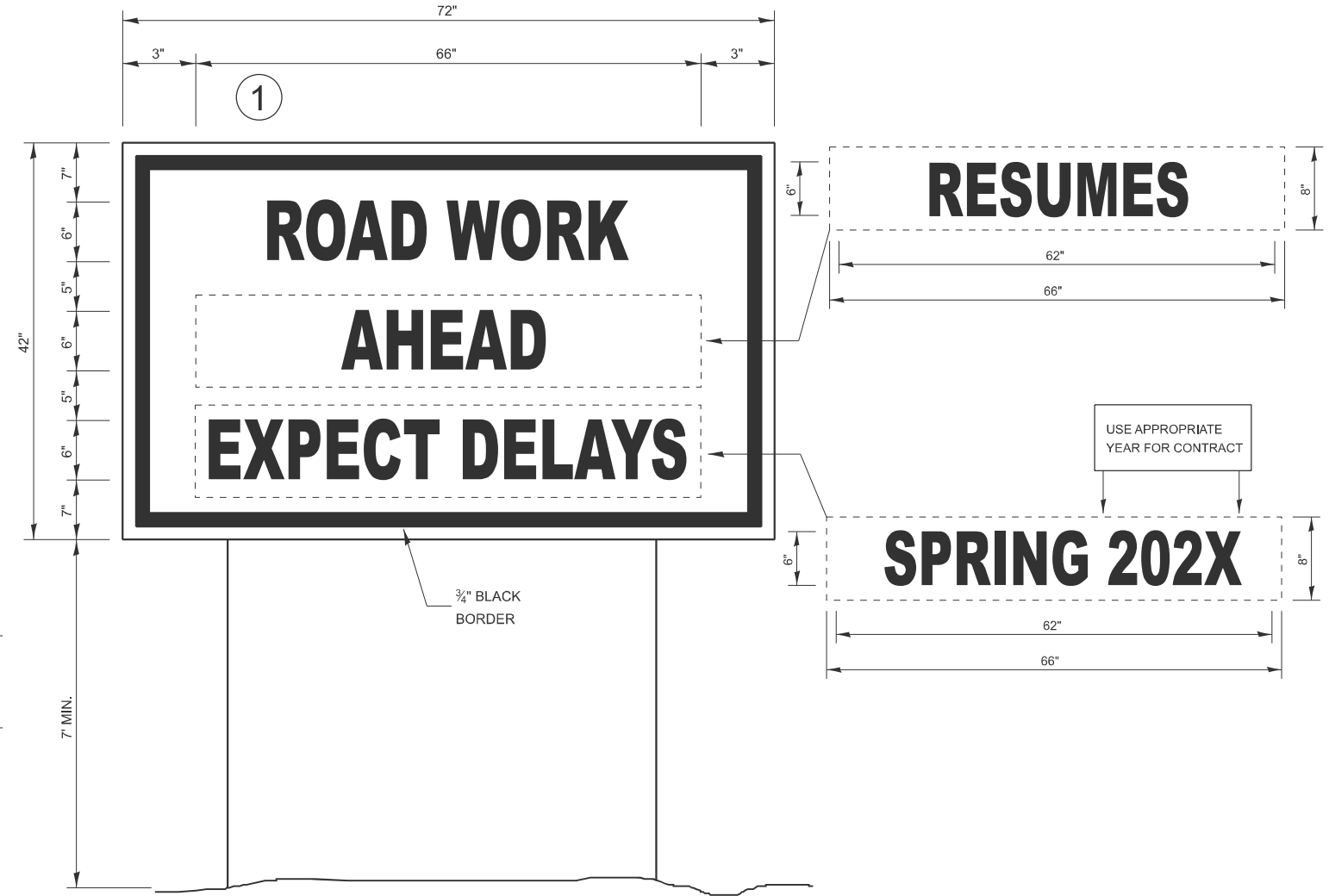
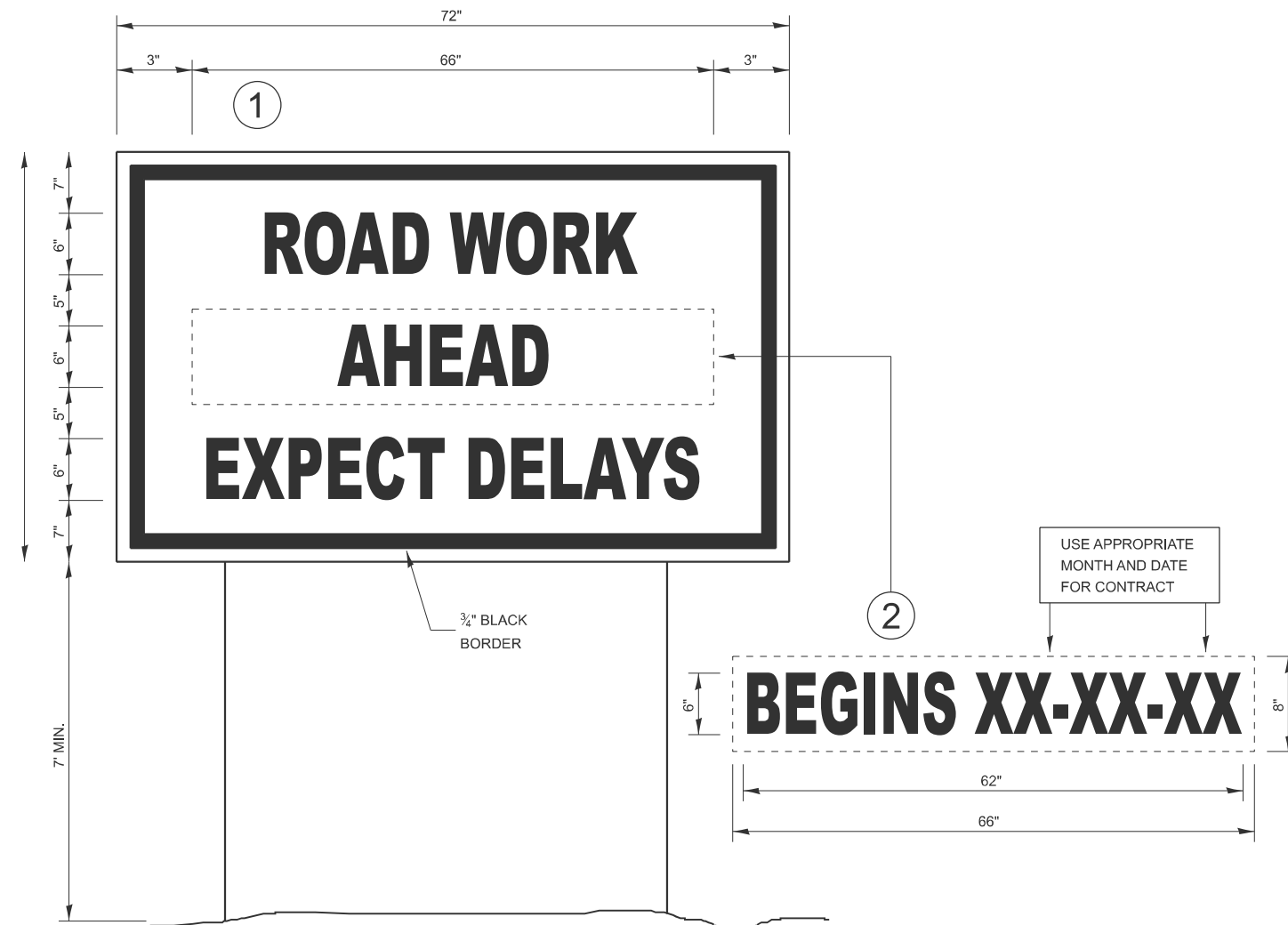


TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.  
COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

**WIDTH RESTRICTION SIGNING DETAILS**

MODEL: Default  
FILE NAME: c:\p\work\p\work\zagar\k1008618\66879-DETAIL.S.dgn

|  |                          |            |           |                                                   |         |       |           |                    |           |          |                  |           |
|--|--------------------------|------------|-----------|---------------------------------------------------|---------|-------|-----------|--------------------|-----------|----------|------------------|-----------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DETAILS |       |           | F.A.P. RTE.        | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |         |       |           | 673                | (112BR)ES | LMNGSTON | 65               | 58        |
|  |                          | CHECKED -  | REVISED - |                                                   |         |       |           | CONTRACT NO. 66L79 |           |          |                  |           |
|  | PLOT DATE = 8/16/2024    | DATE -     | REVISED - |                                                   | SCALE:  | SHEET | OF SHEETS | STA.               | TO STA.   | ILLINOIS | FED. AID PROJECT |           |



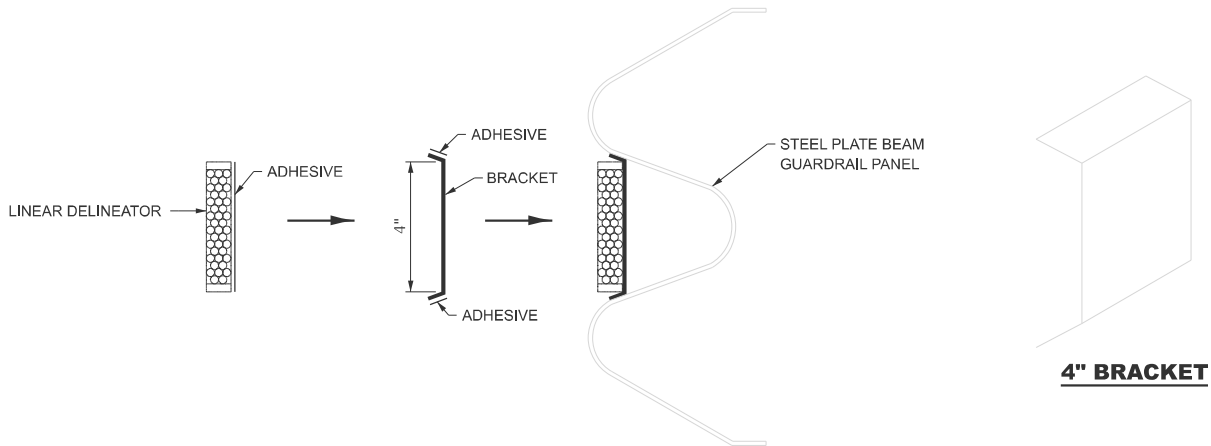
## **TEMPORARY INFORMATION SIGNING**

## WINTER SHUT DOWN SIGNING

NOTES:

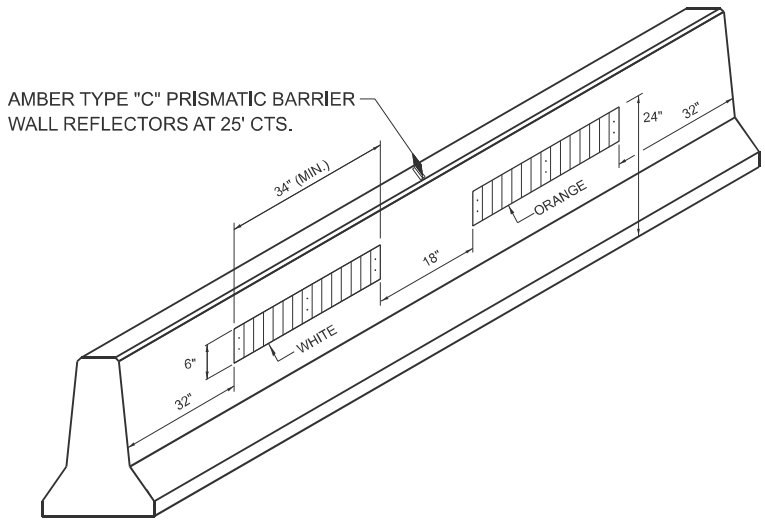
1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN①WITH INSTALLED PANEL②A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL②ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL②WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

|            |                          |            |           |                                                   |                    |       |    |        |                |           |            |                 |              |
|------------|--------------------------|------------|-----------|---------------------------------------------------|--------------------|-------|----|--------|----------------|-----------|------------|-----------------|--------------|
| FILE NAME: | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DETAILS            |       |    |        | F.A.P.<br>RTE. | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|            |                          | DRAWN -    | REVISED - |                                                   |                    |       |    |        | 673            | (112BR)ES | LIVINGSTON | 65              | 59           |
|            |                          | CHECKED -  | REVISED - |                                                   | CONTRACT NO. 66L79 |       |    |        |                |           |            |                 |              |
|            | PLOT DATE = 8/16/2024    | DATE -     | REVISED - |                                                   | SCALE:             | SHEET | OF | SHEETS | STA.           | TO STA.   |            |                 |              |
|            |                          |            |           |                                                   |                    |       |    |        |                |           |            |                 |              |

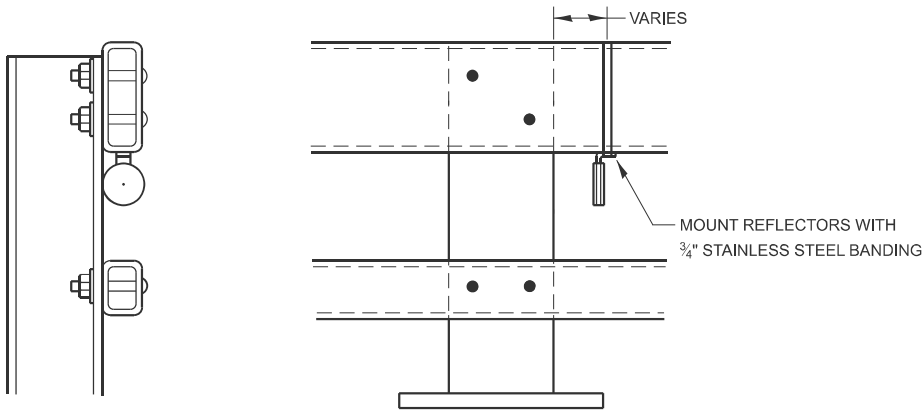


### LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

LINEATOR DELINEATOR SHALL BE APLLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS



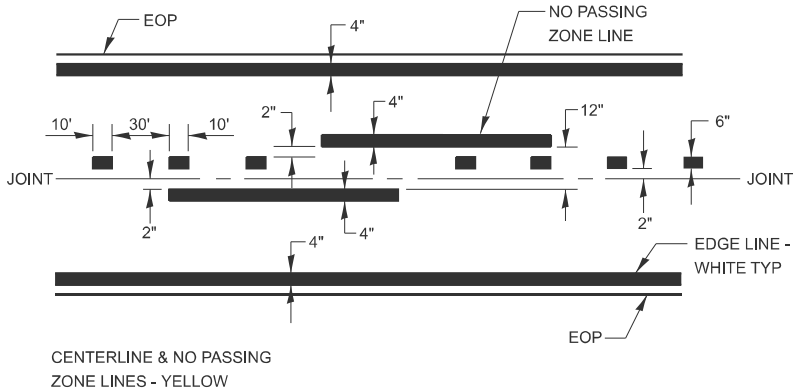
### LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER



#### NOTES

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

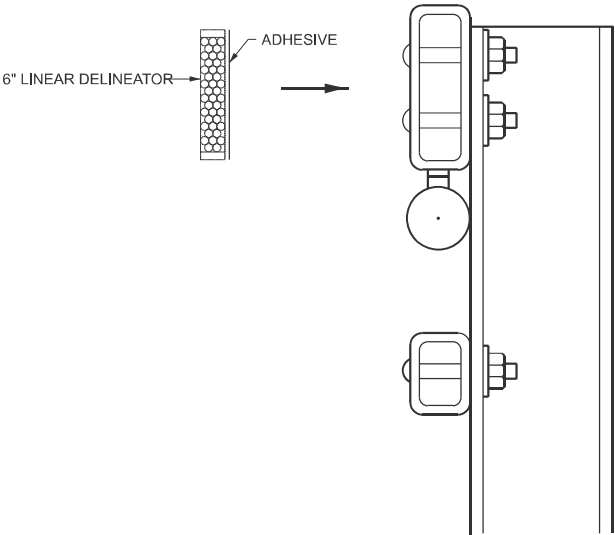
### REFLECTOR MOUNTING DETAIL FOR STEEL RAIL



### PAVEMENT MARKING

MODEL: Default  
FILE NAME: c:\p\work\p\work\zagar\k1008618\66879-DETAIL S.dgn

|  |                          |            |           |                                                   |         |       |    |                    |           |            |                             |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|---------|-------|----|--------------------|-----------|------------|-----------------------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DETAILS |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS             | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |         |       |    | 673                | (112BR)ES | LIVINGSTON | 65                          | 60           |
|  |                          | CHECKED -  | REVISED - |                                                   |         |       |    | CONTRACT NO. 66L79 |           |            |                             |              |
|  | PLOT DATE = 8/16/2024    | DATE -     | REVISED - |                                                   | SCALE:  | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS   FED. AID PROJECT |              |



**4" LINEAR DELINEATOR APPLICATION TO STEEL RAIL**  
LINEATOR DELINEATOR SHALL BE APLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS

MODEL: Default  
FILE NAME: c:\p\p\_work\p\wdot\zagar\k1008618\6679-DETAIL.S.dgn

|  |                          |            |           |                                                   |         |       |    |                    |           |            |                           |              |
|--|--------------------------|------------|-----------|---------------------------------------------------|---------|-------|----|--------------------|-----------|------------|---------------------------|--------------|
|  | USER NAME = Joseph.Zagar | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | DETAILS |       |    | F.A.P.<br>RTE.     | SECTION   | COUNTY     | TOTAL<br>SHEETS           | SHEET<br>NO. |
|  |                          | DRAWN -    | REVISED - |                                                   |         |       |    | 673                | (112BR)ES | LIVINGSTON | 65                        | 61           |
|  |                          | CHECKED -  | REVISED - |                                                   |         |       |    | CONTRACT NO. 66L79 |           |            |                           |              |
|  | PLOT DATE = 8/16/2024    | DATE -     | REVISED - |                                                   | SCALE:  | SHEET | OF | SHEETS             | STA.      | TO STA.    | ILLINOIS FED. AID PROJECT |              |

|                 |     |                                                      |    |      |
|-----------------|-----|------------------------------------------------------|----|------|
| FINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>NOTE BOOK<br>AREAS<br>CHECKED | BY | DATE |
|                 |     |                                                      |    |      |
|                 |     |                                                      |    |      |
|                 |     |                                                      |    |      |

|                    |     |                                                      |    |      |
|--------------------|-----|------------------------------------------------------|----|------|
| ORIGINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>NOTE BOOK<br>AREAS<br>CHECKED | BY | DATE |
|                    |     |                                                      |    |      |
|                    |     |                                                      |    |      |
|                    |     |                                                      |    |      |

MODEL: Default  
FILE NAME: c:\pwwork\jwd\del\zagar\k110086\8166L79-XSECTIONS.dgn

|           |                |
|-----------|----------------|
| USER NAME | = Joseph.Zagar |
| PLOT DATE | = 6/24/2024    |

|          |   |
|----------|---|
| DESIGNED | - |
| DRAWN    | - |
| CHECKED  | - |
| DATE     | - |

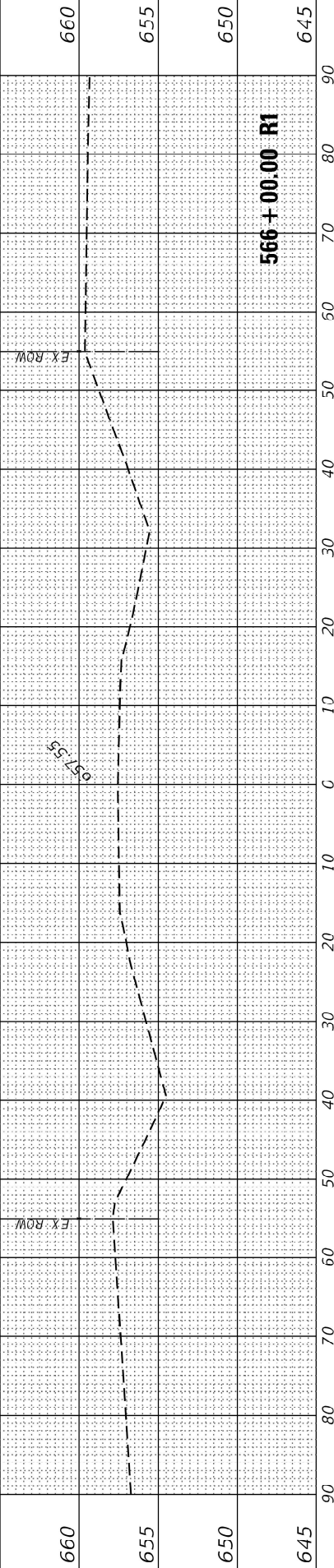
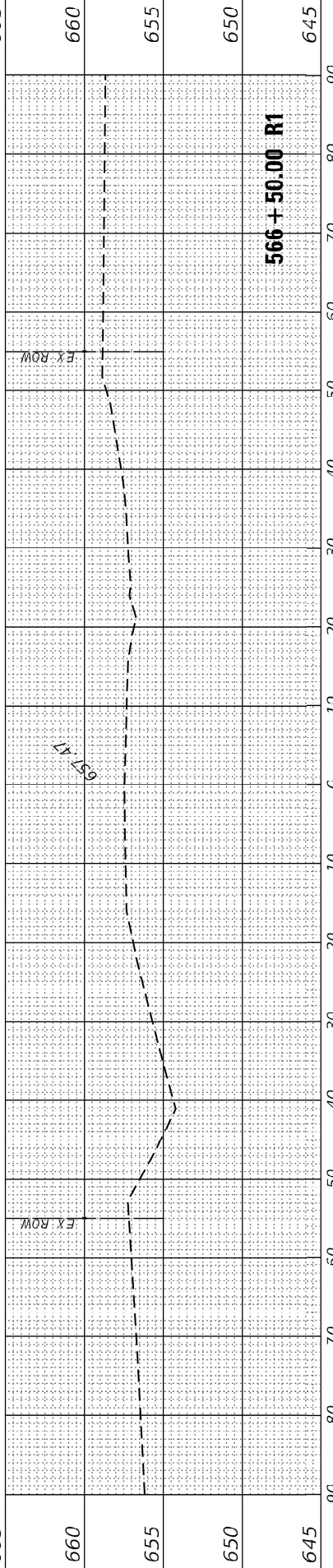
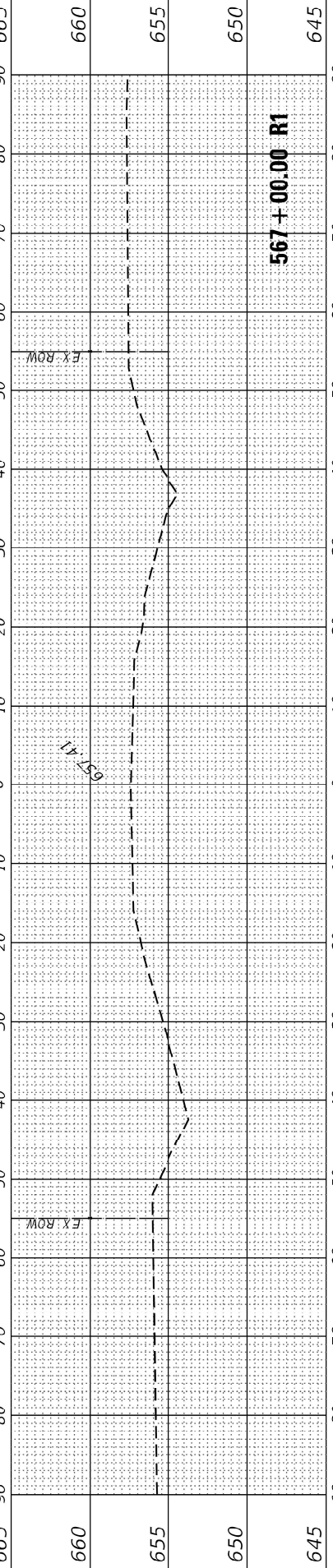
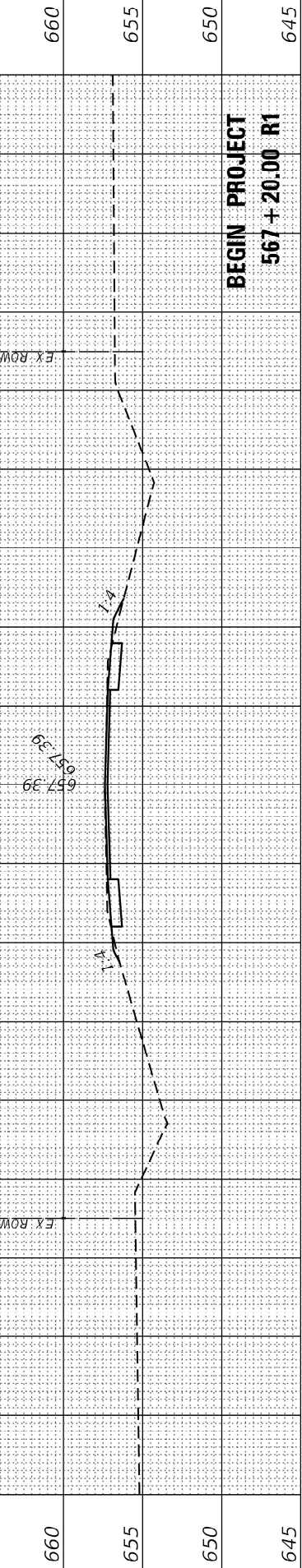
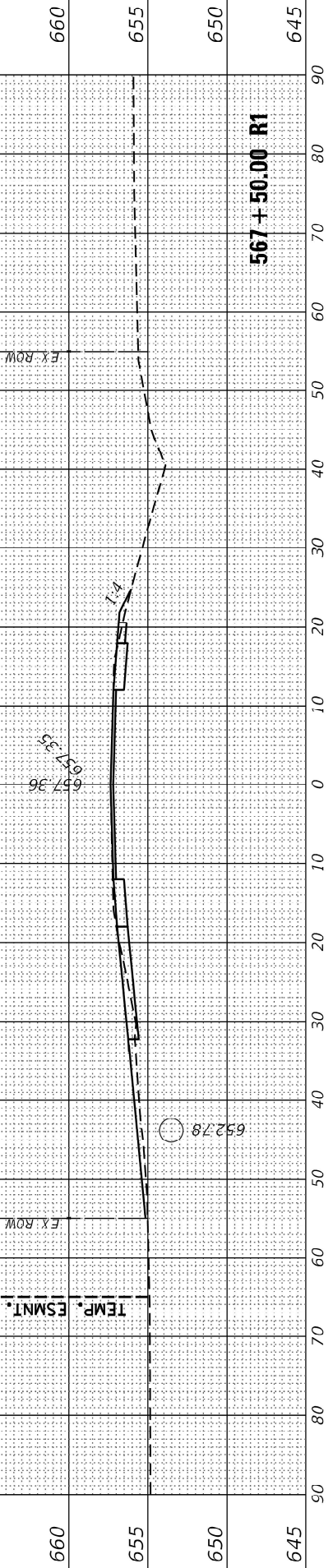
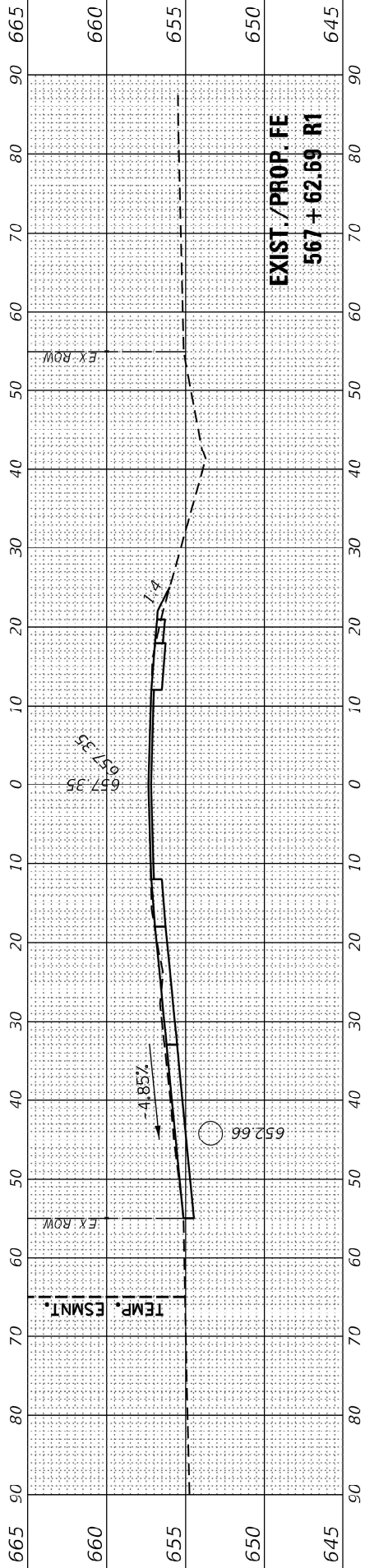
|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

CROSS SECTIONS

|                    |           |                  |                 |              |
|--------------------|-----------|------------------|-----------------|--------------|
| F&P<br>RTE.        | SECTION   | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673                | (112BR)ES | LVINGSTON        | 65              | 62           |
| CONTRACT NO. 66L79 |           |                  |                 |              |
| ILLINOIS           |           | FED. AID PROJECT |                 |              |





| FINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|-----------------|-----|-----------------------------------------------------|----|------|
|                 |     |                                                     |    |      |

| ORIGINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|--------------------|-----|-----------------------------------------------------|----|------|
|                    |     |                                                     |    |      |

MODEL: Default  
FILE NAME: c:\pwwork\jwdell\zagar\k11008618\66L79-XSECTIONS.dgn

|           |                |
|-----------|----------------|
| USER NAME | = Joseph.Zagar |
| PLOT DATE | = 6/24/2024    |

|          |   |
|----------|---|
| DESIGNED | - |
| DRAWN    | - |
| CHECKED  | - |
| DATE     | - |

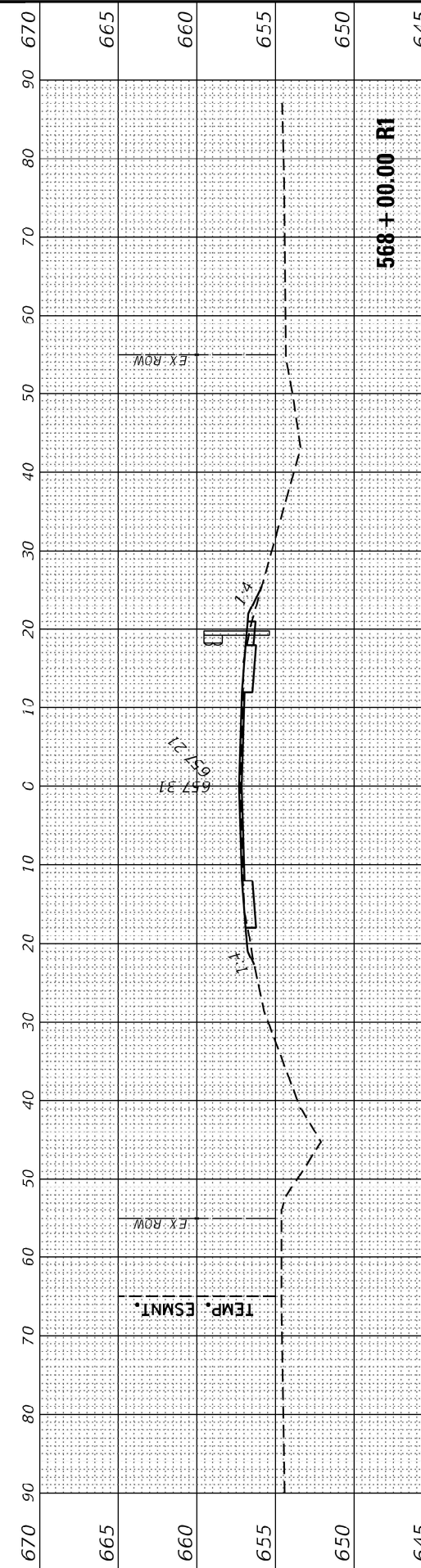
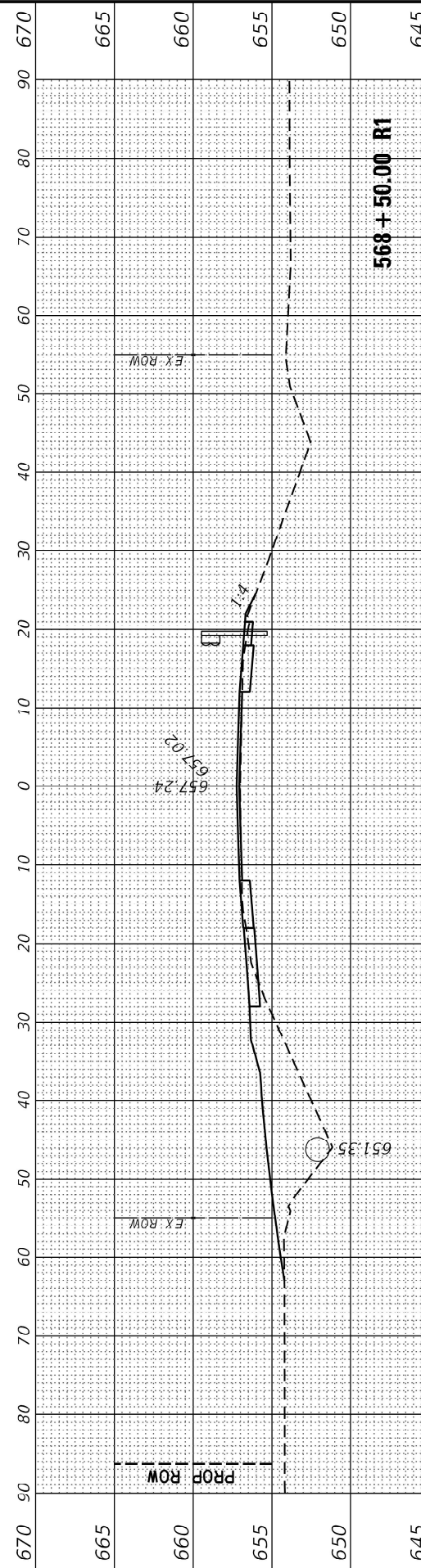
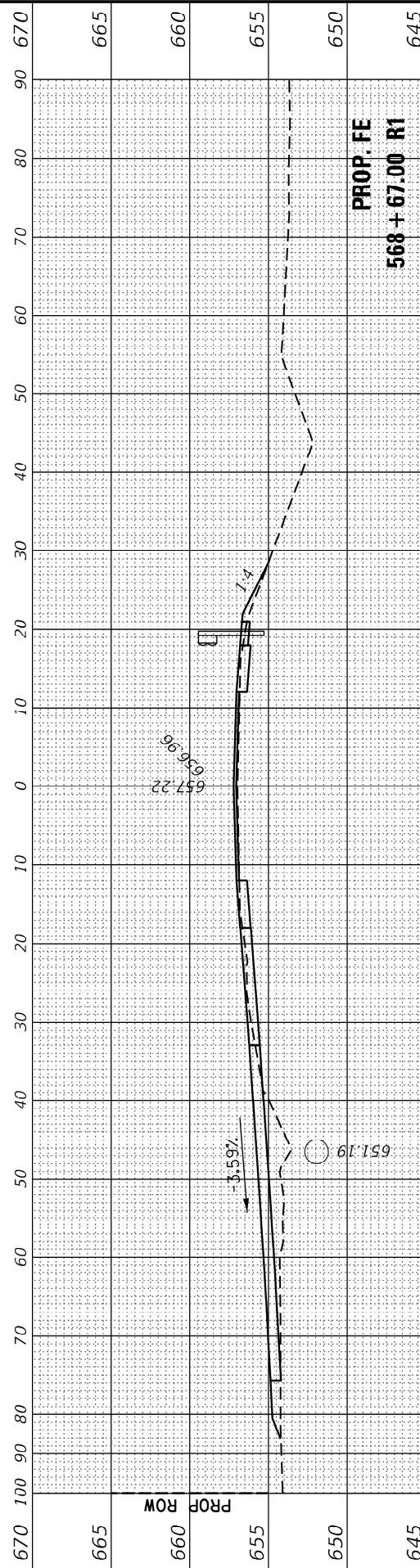
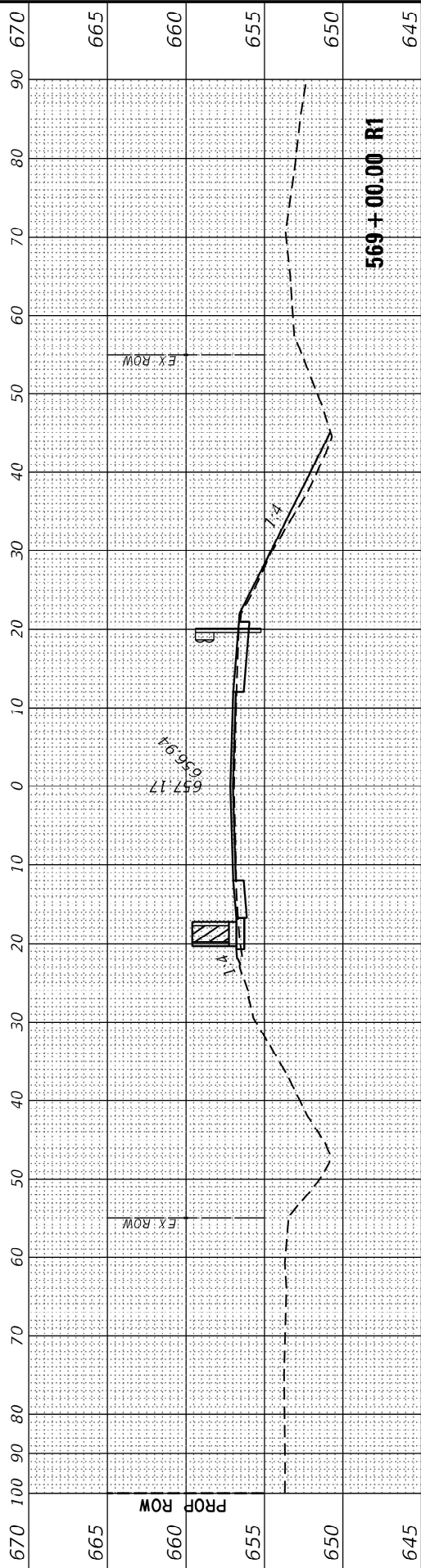
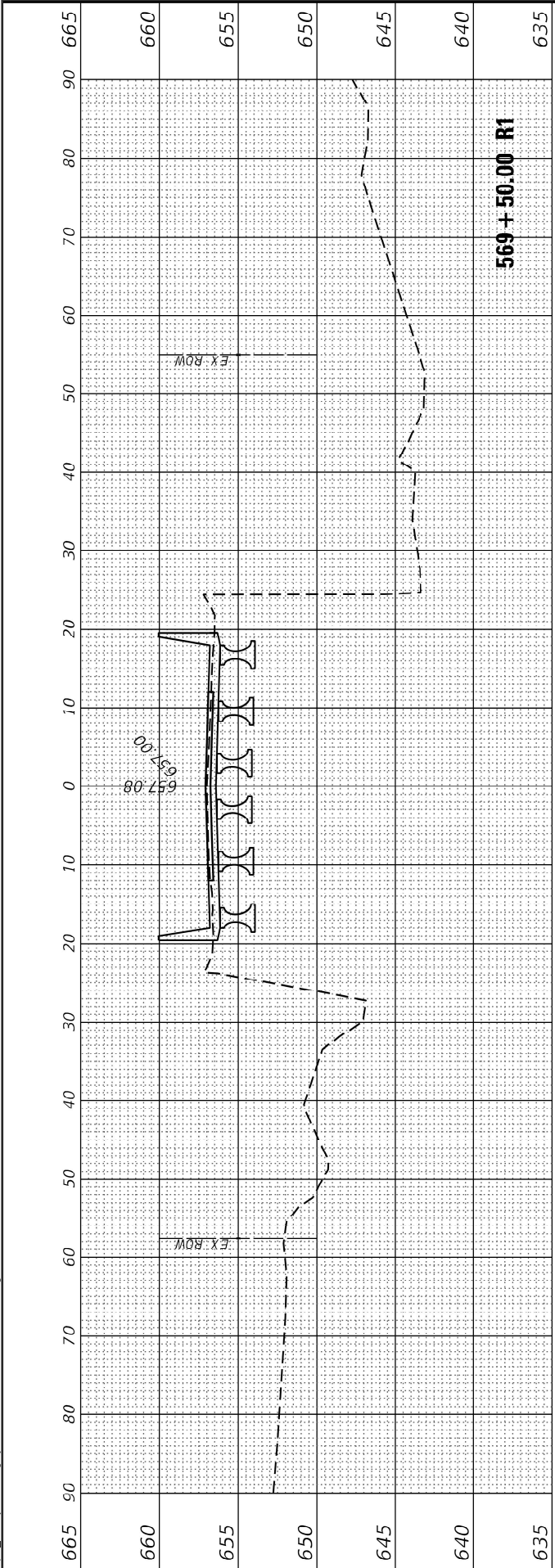
|         |   |
|---------|---|
| REVISED | - |
| REVISED | - |
| REVISED | - |
| REVISED | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

CROSS SECTIONS

| F.A.P<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------|-----------|------------|-----------------|--------------|
| 673                      | (112BR)ES | LIVINGSTON | 65              | 63           |
| CONTRACT NO. 66L79       |           |            |                 |              |
| ILLINOIS FED.AID PROJECT |           |            |                 |              |





| FINAL<br>SURVEY<br>NO. | SURVEYED<br>NOTE BOOK | PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|------------------------|-----------------------|-----------------------------------------|----|------|
|                        |                       |                                         |    |      |

| ORIGINAL<br>SURVEY<br>NO. | SURVEYED<br>NOTE BOOK | PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|---------------------------|-----------------------|-----------------------------------------|----|------|
|                           |                       |                                         |    |      |

MODEL: Default  
FILE NAME: c:\pwwork\pwwork\zagar\k110086\8168\79-X\SECTIONS.dgn

|           |                |
|-----------|----------------|
| USER NAME | = Joseph.Zagar |
| DESIGNED  | -              |
| DRAWN     | -              |
| CHECKED   | -              |
| DATE      | -              |
| PLOT DATE | = 6/24/2024    |

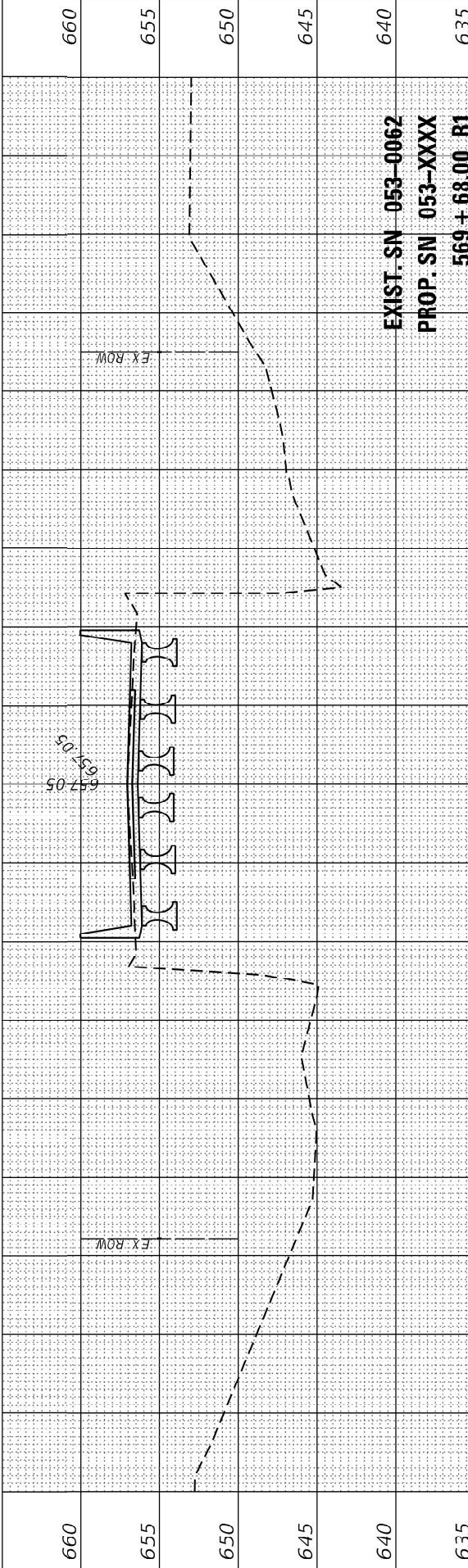
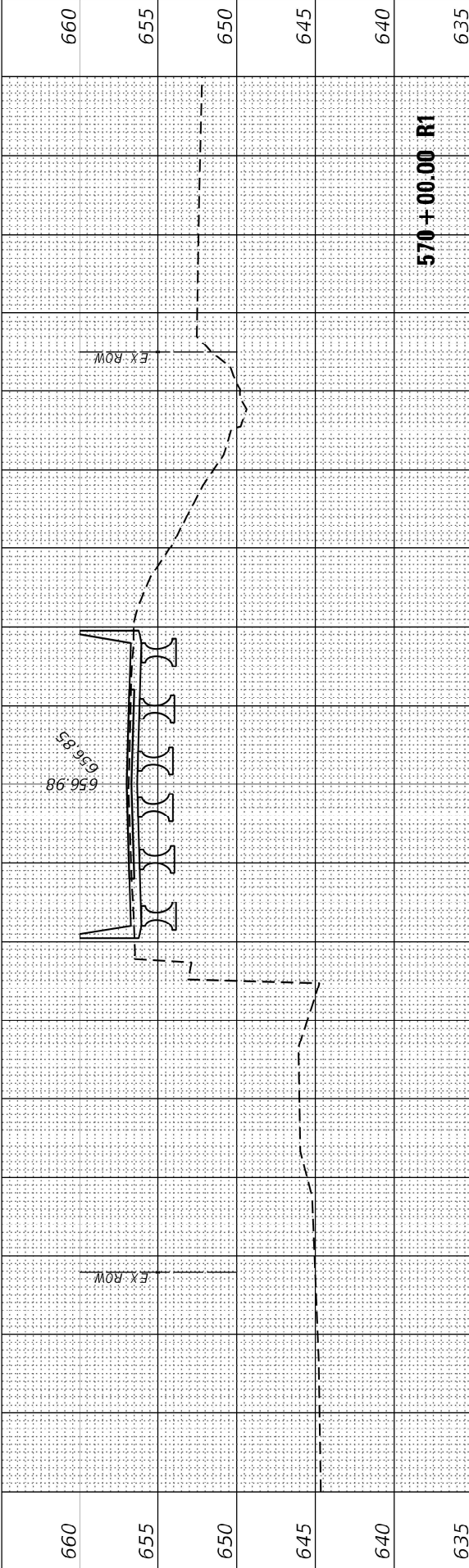
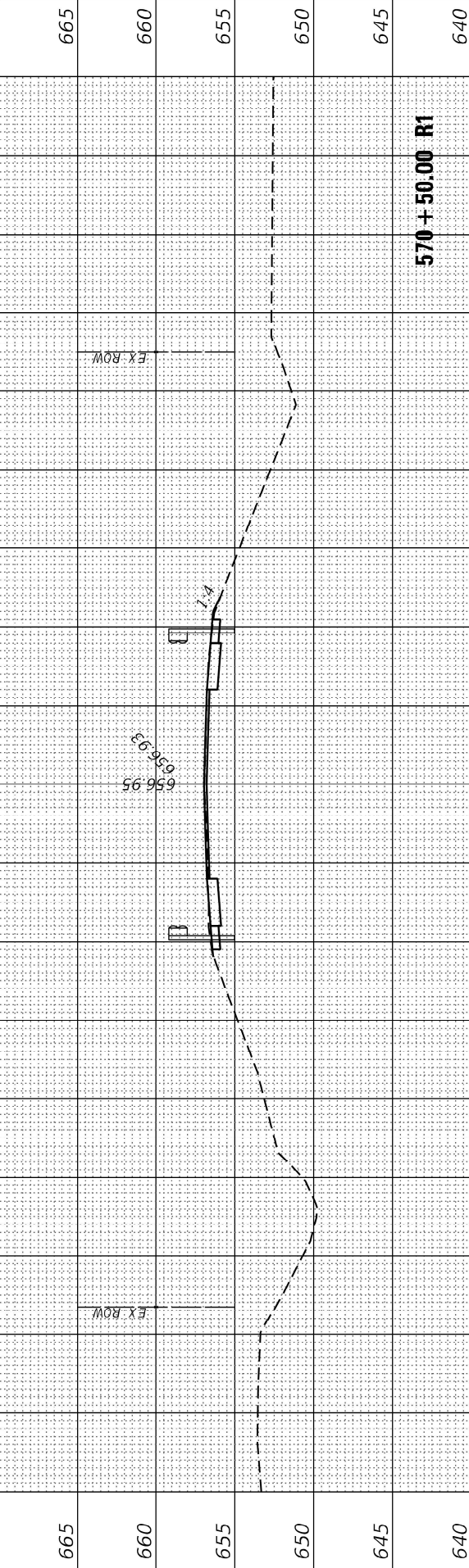
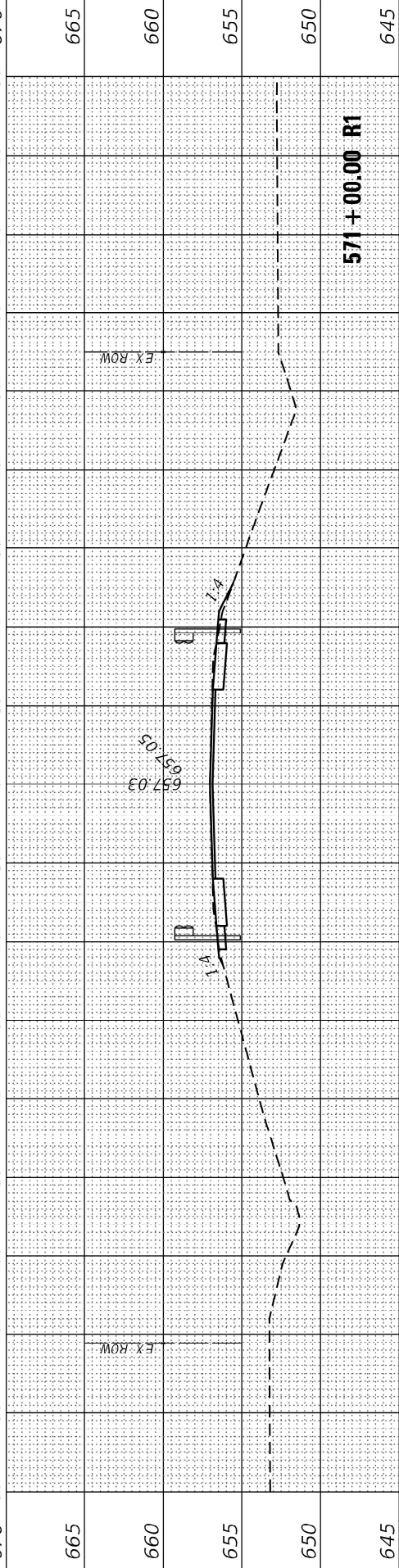
|        |   |
|--------|---|
| REVISD | - |
| REVISD | - |
| REVISD | - |
| REVISD | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

|                           |           |          |                 |              |
|---------------------------|-----------|----------|-----------------|--------------|
| F.A.P<br>RTE.             | SECTION   | COUNTY   | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673                       | (112BR)ES | LMNGSTON | 65              | 64           |
| CONTRACT NO. 66L79        |           |          |                 |              |
| ILLINOIS FED. AID PROJECT |           |          |                 |              |



EXIST. SN -053-0062  
PROP. SN 053-XXXX  
569 + 68.00 R1

|                 |     |                                                     |    |      |
|-----------------|-----|-----------------------------------------------------|----|------|
| FINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|                 |     |                                                     |    |      |
|                 |     |                                                     |    |      |
|                 |     |                                                     |    |      |

|                    |     |                                                     |    |      |
|--------------------|-----|-----------------------------------------------------|----|------|
| ORIGINAL<br>SURVEY | NO. | SURVEYED<br>PLOTTED<br>TEMPLATE<br>AREAS<br>CHECKED | BY | DATE |
|                    |     |                                                     |    |      |
|                    |     |                                                     |    |      |
|                    |     |                                                     |    |      |

MODEL: Default  
FILE NAME: c:\pwwork\jwd\del\zagar\k11008618\66L79-X\SECTIONS.dgn

|           |                |
|-----------|----------------|
| USER NAME | = Joseph.Zagar |
| DESIGNED  | -              |
| DRAWN     | -              |
| CHECKED   | -              |
| DATE      | -              |

|        |   |
|--------|---|
| REVISD | - |
| REVISD | - |
| REVISD | - |
| REVISD | - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|        |       |    |        |      |         |
|--------|-------|----|--------|------|---------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO STA. |
|--------|-------|----|--------|------|---------|

CROSS SECTIONS

|                          |           |            |                 |              |
|--------------------------|-----------|------------|-----------------|--------------|
| F.A.P<br>RTE.            | SECTION   | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
| 673                      | (112BR)ES | LIVINGSTON | 65              | 65           |
| CONTRACT NO. 66L79       |           |            |                 |              |
| ILLINOIS FED.AID PROJECT |           |            |                 |              |

