

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

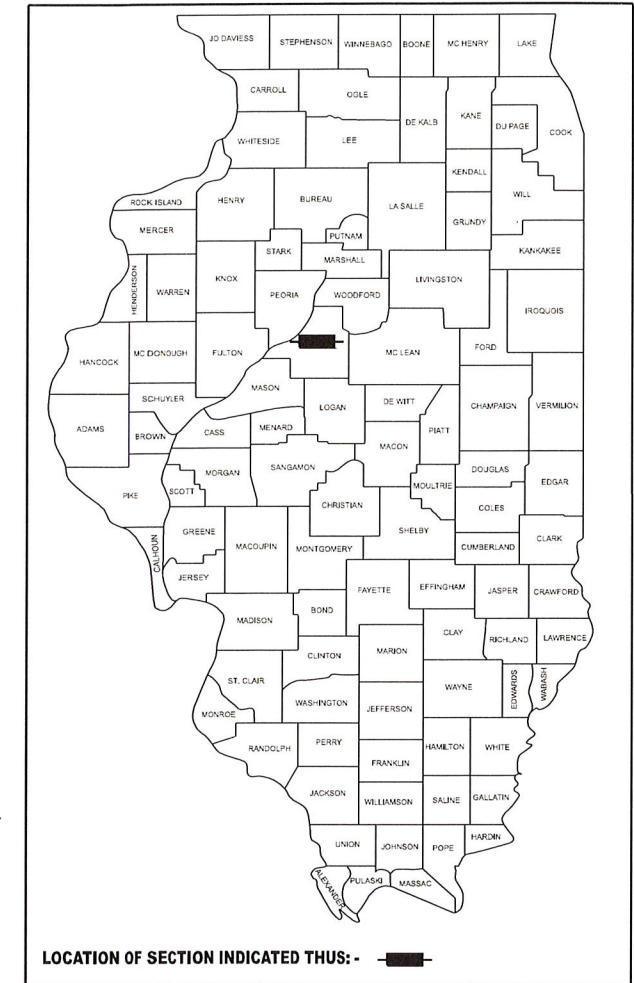
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 1 |
| | | ILLINOIS | CONTRACT NO. | |

PROPOSED BRIDGE REPLACEMENT LOCAL FUNDS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

CH 7 (TOWNLINER ROAD) OVER PRAIRIE CREEK SECTION 19-00025-00-BR TAZEWELL COUNTY



LOCATION OF SECTION INDICATED THUS: - ■ -

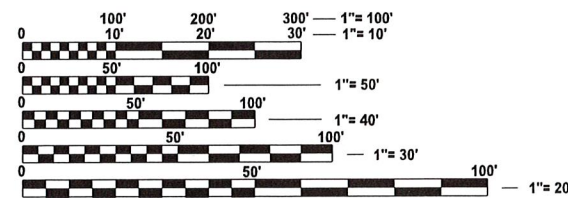
FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
 ADT = 1650 (2023)
 DESIGN SPEED = 40 MPH
 3R DESIGN POLICY



Craig Fink
 Expires: 11/30/2025 9-6-24

PROJECT UTILITIES
 CORN BELT ENERGY CORPORATION
 PHONE: (309)-662-5330
 CONTACT: ENGINEERING DEPARTMENT
 EMAIL: JULIE@CORNBELTENERGY.COM

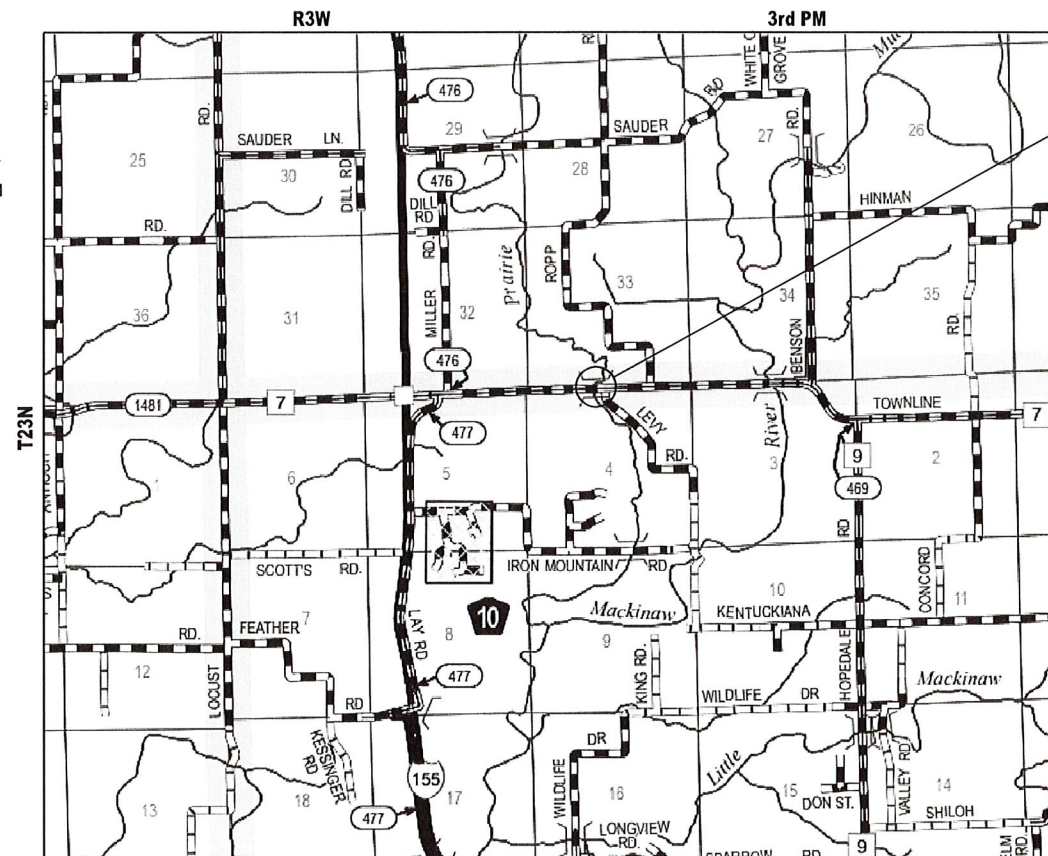
FRONTIER COMMUNICATIONS
 PHONE: (815)-895-1515
 CONTACT: KALIN HINSHAW
 EMAIL: KALIN.HINSHAW@FTR.COM



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 MANAGER: CRAIG W. FINK, P.E.
PROJECT ENGINEER: BRIAN J. JOHNSON, P.E.



PROPOSED
 BEGINS STA. 8+00.00
 ENDS STA. 13+16.00
 EXIST. SN 090-3009
 PROP. SN 090-3254

GROSS LENGTH = 490.00 FT. = 0.093 MILE
 NET LENGTH = 490.00 FT. = 0.093 MILE

APPROVED 4 Oct 2024
Howard L. ...
 COUNTY ENGINEER

INDEX OF SHEETS

| | |
|-------|---|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES, COMMITMENTS AND MIX DESIGN |
| 3 | ALIGNMENT, TIES, BENCHMARKS |
| 4-7 | SUMMARY OF QUANTITIES |
| 8-9 | SCHEDULE OF QUANTITIES |
| 10-11 | TYPICAL SECTIONS |
| 12 | PLAN & PROFILE |
| 13 | PAVEMENT MARKING PLAN |
| 14 | EROSION CONTROL PLAN |
| 15-35 | STRUCTURE PLANS |
| 36-59 | CROSS SECTIONS |

HIGHWAY STANDARDS

| | |
|-----------|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 420406 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB |
| 515001-04 | NAME PLATE FOR BRIDGES |
| 630001-13 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631032-10 | TRAFFIC BARRIER TERMINAL, TYPE 6A |
| 701901-09 | TRAFFIC CONTROL DEVICES |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| BLR 21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |
| BLR 22-7 | TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.) |

GENERAL NOTES

- ALL ELEVATIONS ARE BASED ON NAVD 88-DATUM.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- LAYOUT OF RIPRAP MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.
- GUARDRAIL REMOVAL SHALL INCLUDE DELINEATING WITH LIGHTED BARRICADES ALL LOCATIONS EXPOSED TO TRAFFIC WHERE GUARDRAIL CONSTRUCTION REMAINS INCOMPLETE INCLUDING REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY.
- GUARDRAIL REMOVAL WILL INCLUDE THE REMOVAL OF ANY CONCRETE ENCASEMENTS OF THE POSTS AND ANY ADDITIONAL RAILING LOCATED AT THE BOTTOM OF THE POSTS.
- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED, UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

GENERAL NOTES (CONT'D)

- THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
- EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
- THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
AGGREGATE SHOULDERS: 2.05 TONS/CU YD
TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE
RIPRAP: 1.50 TONS/CU YD
BITUMINOUS MATERIALS (TACK COAT): 0.025 LB/SQ FT
HOT-MIX ASPHALT: 112 LBS/SQ YD/IN
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- DUE TO TREE CLEARING RESTRICTIONS, THE TREES INDICATED TO BE REMOVED MAY ALREADY BE CUT AT VARIOUS HEIGHTS. IN THIS CASE, TREE REMOVAL INDICATED SHALL INCLUDE THE PORTION OF THE TREE CUT (ON THE GROUND) AND THE REMAINING STUMP AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.
- PAVEMENT REMOVAL TO INCLUDE THE EXISTING AGGREGATE BASE COURSE AND ANY OIL AND CHIP SURFACE TREATMENT.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING CURB, GUTTER, INLETS, DRAINS, AND PIPES AND SHALL ENSURE CONSTRUCTION, INCLUDING REMOVAL AND INSTALLATION OF GUARDRAIL POSTS, DOES NOT DAMAGE SAME. APPROVAL OF ENGINEER IS REQUIRED FOR ANY NECESSARY CHANGES TO PLAN GUARDRAIL POST LOCATIONS. CONTRACTOR SHALL REMOVE AND REPLACE OR OTHERWISE CORRECT SUCH DAMAGE TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

COMMITMENTS

- TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.

MIX DESIGN TABLE

| LOCATION: | CH 7 (TOWNLINER ROAD) | |
|---|------------------------------|------------------------|
| MIXTURE USE(S): | * POLY SURFACE COARSE (1.5") | * BINDER COARSE (4.5") |
| PG: | SBS PG 70-22 | SBS PG 64-22 |
| DESIGN AIR VOIDS: | 4.0% @ N50 | 4.0% @ N50 |
| MIXTURE COMPOSITION (GRADATION MIXTURE) | IL 9.5 | IL 19.0 |
| FRICTION AGGREGATE: | MIX "C" | N/A |
| SUBLOT SIZE | N/A | N/A |
| MIXTURE WEIGHTS | 112 LB/SY/IN | 112 LB/SY/IN |
| QUALITY MANAGEMENT | N/A | N/A |
| MTD: | NO | NO |

* PAID FOR AS HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS AND MIX DESIGN
CH 7 OVER PRAIRIE CREEK

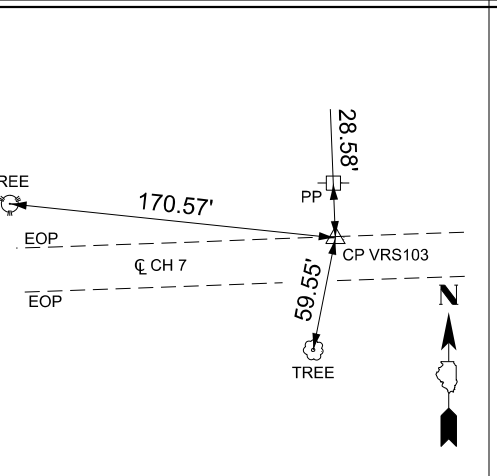
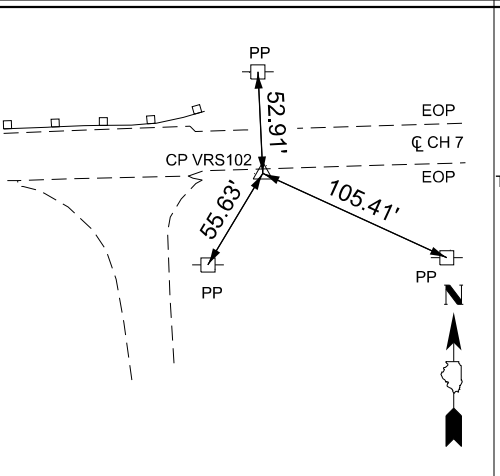
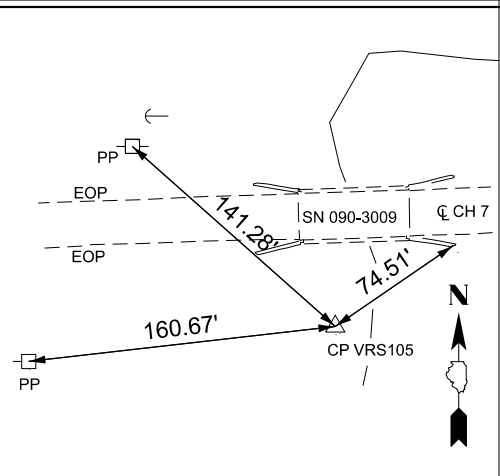
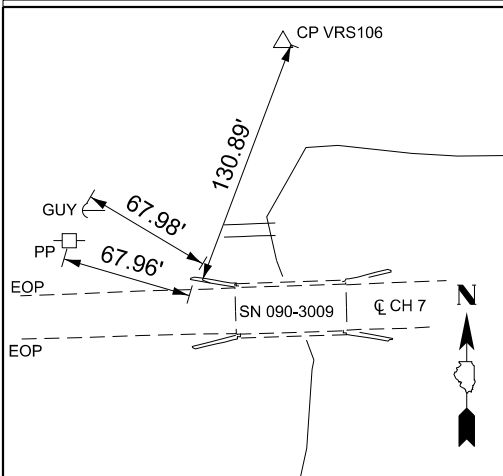
SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 2 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: GEN-1 (Sheet)
FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-shi-gennote.dgn

design firm
no. 184001036
whks
engineers + planners + land surveyors

| | | |
|--------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| | DRAWN - GSJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - CWF | REVISED - |
| PLOT DATE = 7/9/2024 | DATE - | REVISED - |



Survey Point Feature List Report

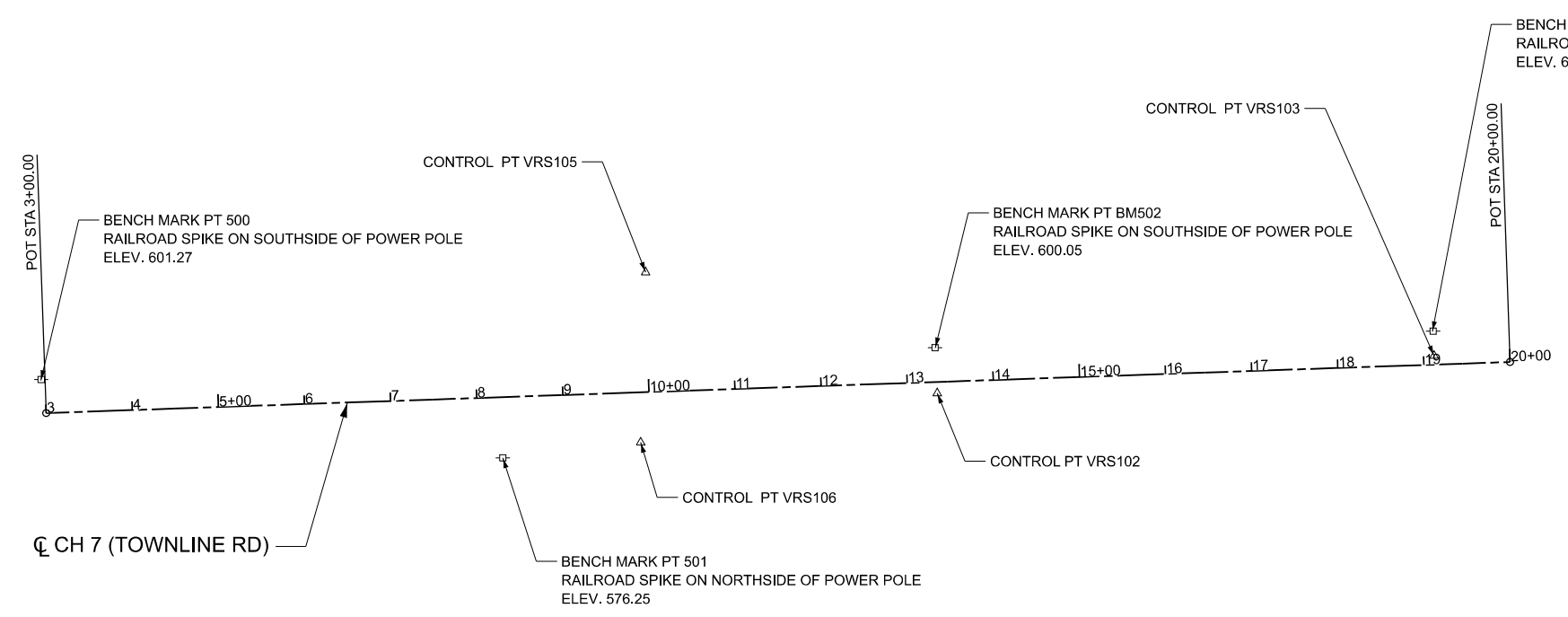
| Point Name | Description | Northing | Easting | Elevation |
|------------|-------------------------------------|-------------|-------------|-----------|
| 500 | BENCH TIE SET RR SPK S SIDE PP | 1390355.192 | 2495458.660 | 601.27 |
| 501 | BENCH TIE SET RR SPK N SIDE PP | 1390265.408 | 2495994.940 | 576.25 |
| 1000 | SURVEY WORK POINT | 1392201.070 | 2489990.760 | 646.00 |
| BASE100 | SURVEY WORK POINT CP "SET REBAR 12" | 1390253.242 | 2494775.669 | 632.73 |
| BM502 | BENCH TIE SET RR SPK S SIDE PP | 1390393.048 | 2496496.873 | 600.05 |
| BM503 | BENCH TIE SET RR SPK S SIDE PP | 1390411.820 | 2497073.843 | 602.14 |
| VRS101 | SURVEY WORK POINT CP SET MAG NAIL | 1390306.868 | 2495460.453 | 596.42 |
| VRS102 | SURVEY WORK POINT CP SET MAG NAIL | 1390340.385 | 2496499.154 | 594.27 |
| VRS103 | SURVEY WORK POINT CP SET MAG NAIL | 1390383.861 | 2497075.694 | 603.32 |
| VRS104 | SURVEY WORK POINT CP SET REBAR | 1390410.364 | 2497535.652 | 607.82 |
| VRS105 | SURVEY WORK POINT CP SET 60D SPK | 1390480.686 | 2496160.584 | 572.03 |
| VRS106 | SURVEY WORK POINT CP SET 60D SPK | 1390283.435 | 2496154.892 | 562.53 |

CONTROL PT VRS106
 SURVEY WORK POINT CP SET 60D SPK
 STA 9+88.36, 58.00' RT (CL CH 7 (TOWNLINE RD))
 N 1390283.435
 E 2496154.892

CONTROL PT VRS105
 SURVEY WORK POINT CP SET 60D SPK
 STA 10+00.93, 138.93' LT (CL CH 7 (TOWNLINE RD))
 N 1390480.686
 E 2496160.584

CONTROL PT VRS102
 SURVEY WORK POINT CP SET 60D SPK
 STA 13+34.40, 13.09' RT (CL CH 7 (TOWNLINE RD))
 N 1390340.385
 E 2496499.154

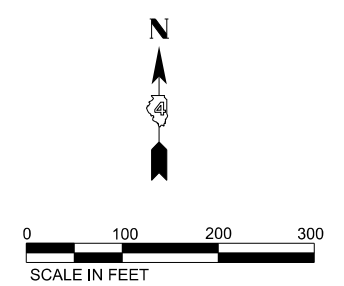
CONTROL PT VRS103
 SURVEY WORK POINT CP SET 60D SPK
 STA 19+12.11, 10.26' LT (CL CH 7 (TOWNLINE RD))
 N 1390383.861
 E 2497075.694



Horizontal Alignment Review Report

Alignment Name: CL_CH7
 Alignment Description:
 Alignment Style: Alignment/GE_Ex_Centerline

| Element: | Station | Northing | Easting |
|-----------------------|--------------------|-----------|------------|
| Linear START | (START) 3+00.00 R1 | 1390317.4 | 2495464.9 |
| HPI | (HPI) 10+00.00 | 1390341.8 | 2496164.4 |
| Tangential Direction: | | N88° | |
| Tangential Length: | | 700 | |
| Linear HPI | (HPI) 10+00.00 | 1390341.8 | 2496164.4 |
| Linear END | (END) 20+00.00 | 1390376.6 | 2497163.89 |
| Tangential Direction: | | N88° | |
| Tangential Length: | | 1000 | |



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| | | |
|--------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 7/9/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS
 CH 7 OVER PRAIRIE CREEK

SCALE: 1"=100' SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEVELL | 59 | 3 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: SOQ-1 [Sheet]
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-sh-SOQ.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|---|-------|----------------|-----------------------|
| | | | | BRIDGE |
| | | | | 0013 S.N. 090-3254 |
| 20100500 | TREE REMOVAL, ACRES | ACRE | 0.1 | 0.1 |
| 20200100 | EARTH EXCAVATION | CU YD | 285 | 285 |
| 20300100 | CHANNEL EXCAVATION | CU YD | 1028 | 1028 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 84 | 84 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 675 | 675 |
| 28100209 | STONE RIPRAP, CLASS A5 | TON | 1092 | 1092 |
| 28200200 | FILTER FABRIC | SQ YD | 813 | 813 |
| 35102400 | AGGREGATE BASE COURSE, TYPE B 12" | SQ YD | 630 | 630 |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 408 | 408 |
| 40701801 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6" | SQ YD | 582 | 582 |
| 42000070 | PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB | SQ YD | 66 | 66 |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 780 | 780 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 127 | 127 |

* SPECIAL PROVISION



| | | |
|-------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633 1/In. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/6/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 4 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: SOQ_2 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-sh-SOQ.dgn

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|----------|---|-------|----------------|-----------------------|
| | | | | BRIDGE |
| | | | | 0013 S.N. 090-3254 |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 | 1 |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 265 | 265 |
| 50300225 | CONCRETE STRUCTURES | CU YD | 60.7 | 60.7 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 123.9 | 123.9 |
| 50300260 | BRIDGE DECK GROOVING | SQ YD | 504 | 504 |
| 50300300 | PROTECTIVE COAT | SQ YD | 540 | 540 |
| 50301350 | CONCRETE SUPERSTRUCTURE (APPROACH SLAB) | CU YD | 85.2 | 85.2 |
| 50401325 | FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL45N | FOOT | 507 | 507 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 66380 | 66380 |
| 50901050 | STEEL RAILING, TYPE SM | FOOT | 264 | 264 |
| 51200957 | FURNISHING METAL SHELL PILES 12" X 0.250" | FOOT | 1072 | 1072 |
| 51202305 | DRIVING PILES | FOOT | 1072 | 1072 |
| 51203200 | TEST PILE METAL SHELLS | EACH | 2 | 2 |

* SPECIAL PROVISION



| | | |
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| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=50' SHEET 2 OF 4 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 5 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTR. CODE |
|------------|--|-------|----------------|-----------------------|
| | | | | BRIDGE |
| | | | | 0013 S.N. 090-3254 |
| 51500100 | NAME PLATES | EACH | 1 | 1 |
| 58600101 | GRANULAR BACKFILL FOR STRUCTURES | CU YD | 123 | 123 |
| 59100100 | GEOCOMPOSITE WALL DRAIN | SQ YD | 72 | 72 |
| 60146304 | PIPE UNDERDRAINS FOR STRUCTURES 4" | FOOT | 140 | 140 |
| 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 138 | 138 |
| 63100087 | TRAFFIC BARRIER TERMINAL, TYPE 6A | EACH | 4 | 4 |
| 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 4 | 4 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 518 | 518 |
| 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 1503 | 1503 |
| 78200005 | GUARDRAIL REFLECTORS, TYPE A | EACH | 8 | 8 |
| * X2501000 | SEEDING, CLASS 2 (SPECIAL) | ACRE | 0.25 | 0.25 |
| * X5080530 | BAR TERMINATORS | EACH | 338 | 338 |
| * X7011800 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 1 | 1 |

* SPECIAL PROVISION

MODEL: SOQ-3 (Sheet)
FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-sh-SOQ.dgn



| | | |
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| PLOT SCALE = 0.16666633 1/In. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/6/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 6 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| LOCATION | 20200100 | 20300100 | FOR INFORMATION ONLY | | EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-) |
|--------------------------------|---------------------|-----------------------|---|----------------------|--|
| | EARTH EXCAVATION | CHANNEL EXCAVATION | EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75) | EMBANKMENT (FILL) | |
| | CU. YD. | CU. YD. | CU. YD. | CU. YD. | |
| STA. 8+00.00 TO STA. 9+48.00 | 189 | | 142 | 29 | 113 |
| STA. 9+48.00 TO STA. 10+52.00 | | 1028 | * 386 | 0 | 386 |
| STA. 10+52.00 TO STA. 13+00.00 | 96 | | 72 | 122 | -50 |
| TOTAL | 285 | | 600 | 151 | 449 |

EARTH EXCAVATION SHRINKAGE FACTOR = 25%
 *CHANNEL EXCAVATION USED IN EMBANKMENT= 50%

20100500 TREE REMOVAL, ACRES

| CH 7 (TOWNLINE ROAD) | | | | | ACRE |
|----------------------|----------|----|----|----------|-------------|
| LT | 10+18.00 | TO | LT | 10+61.00 | 0.05 |
| RT | 10+20.00 | TO | RT | 10+55.00 | 0.05 |
| TOTAL | | | | | 0.10 |

40701801 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"

| CH 7 (TOWNLINE ROAD) | | | | | SQ YD |
|----------------------|----------|----|----|----------|------------|
| CL | 8+00.00 | TO | CL | 9+09.00 | 291 |
| CL | 10+91.00 | TO | CL | 12+00.00 | 291 |
| TOTAL | | | | | 582 |

63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

| CH 7 (TOWNLINE ROAD) | | | | | FOOT |
|----------------------|----------|----|----|----------|------------|
| LT | 11+04.00 | TO | LT | 12+41.50 | 138 |
| TOTAL | | | | | 138 |

28000250 TEMPORARY EROSION CONTROL SEEDING

| CH 7 (TOWNLINE ROAD) | | | | | POUND |
|--------------------------------|----------|----|----|----------|--------------|
| LT | 8+00.00 | TO | LT | 9+48.00 | 21 |
| RT | 8+00.00 | TO | RT | 9+48.00 | 21 |
| LT | 10+52.00 | TO | LT | 12+90.00 | 21 |
| RT | 10+52.00 | TO | RT | 12+00.00 | 21 |
| ASSUMES THREE (3) APPLICATIONS | | | | | TOTAL |
| | | | | | 84 |

42000070 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB

| CH 7 (TOWNLINE ROAD) | | | | | SQ YD |
|----------------------|----------|----|----|----------|-----------|
| CL | 9+09.00 | TO | CL | 9+19.00 | 33 |
| CL | 10+81.00 | TO | CL | 10+91.00 | 33 |
| TOTAL | | | | | 66 |

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

| CH 7 (TOWNLINE ROAD) | | | | | EACH |
|----------------------|----------|----|----|----------|----------|
| LT | 8+96.00 | TO | LT | 9+33.50 | 1 |
| RT | 8+96.00 | TO | RT | 9+33.50 | 1 |
| LT | 10+66.50 | TO | LT | 11+04.00 | 1 |
| RT | 10+66.50 | TO | RT | 11+04.00 | 1 |
| TOTAL | | | | | 4 |

28000400 PERIMETER EROSION BARRIER

| CH 7 (TOWNLINE ROAD) | | | | | FOOT |
|----------------------|----------|----|----|----------|------------|
| LT | 8+00.00 | TO | LT | 9+48.00 | 145 |
| LT | 10+52.00 | TO | LT | 12+90.00 | 235 |
| RT | 8+00.00 | TO | RT | 9+48.00 | 145 |
| RT | 10+52.00 | TO | RT | 12+00.00 | 150 |
| TOTAL | | | | | 675 |

44000100 PAVEMENT REMOVAL

| CH 7 (TOWNLINE ROAD) | | | | | SQ YD |
|----------------------|----------|----|----|----------|------------|
| CL | 8+00.00 | TO | CL | 9+46.00 | 390 |
| CL | 10+54.00 | TO | CL | 12+00.00 | 390 |
| TOTAL | | | | | 780 |

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT

| CH 7 (TOWNLINE ROAD) | | | | | EACH |
|----------------------|----------|----|----|----------|----------|
| LT | 8+46.00 | TO | LT | 8+96.00 | 1 |
| RT | 8+46.00 | TO | RT | 8+96.00 | 1 |
| LT | 12+41.50 | TO | LT | 12+91.50 | 1 |
| RT | 11+04.00 | TO | RT | 11+54.00 | 1 |
| TOTAL | | | | | 4 |

35102400 AGGREGATE BASE COURSE, TYPE B 12"

| CH 7 (TOWNLINE ROAD) | | | | | SQ YD |
|----------------------|----------|----|----|----------|------------|
| CL | 8+00.00 | TO | CL | 9+09.00 | 315 |
| CL | 10+91.00 | TO | CL | 12+00.00 | 315 |
| TOTAL | | | | | 630 |

48101200 AGGREGATE SHOULDERS, TYPE B

| CH 7 (TOWNLINE ROAD) | | | | | TON |
|----------------------|----------|----|----|----------|------------|
| LT | 8+00.00 | TO | LT | 8+35.00 | 7 |
| LT | 8+35.00 | TO | LT | 9+08.92 | 16 |
| LT | 9+08.92 | TO | LT | 9+48.00 | 4 |
| RT | 8+00.00 | TO | RT | 9+08.92 | 23 |
| RT | 9+08.92 | TO | RT | 9+48.00 | 4 |
| LT | 10+52.00 | TO | LT | 10+91.08 | 4 |
| LT | 10+91.08 | TO | LT | 12+90.00 | 42 |
| RT | 10+52.00 | TO | RT | 10+91.08 | 4 |
| RT | 10+91.08 | TO | RT | 12+00.00 | 23 |
| TOTAL | | | | | 127 |

63200310 GUARDRAIL REMOVAL

| CH 7 (TOWNLINE ROAD) | | | | | FOOT |
|----------------------|----------|----|----|----------|------------|
| LT | 8+94.00 | TO | LT | 9+74.00 | 80 |
| RT | 8+94.00 | TO | RT | 9+74.00 | 80 |
| LT | 10+26.00 | TO | LT | 13+04.00 | 278 |
| RT | 10+26.00 | TO | RT | 11+06.00 | 80 |
| TOTAL | | | | | 518 |

40600290 BITUMINOUS MATERIALS (TACK COAT)

| CH 7 (TOWNLINE ROAD) | | | | | POUND |
|----------------------|----------|----|----|----------|------------|
| CL | 8+00.00 | TO | CL | 9+09.00 | 204 |
| CL | 10+91.00 | TO | CL | 12+00.00 | 204 |
| TOTAL | | | | | 408 |

MODEL: SCH-1 (Sheet) design firm
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CAADD10_12\CAADD Data\Sheets\9681-shi-schedule.dgn
 no. 184001036



| | | |
|--------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| | DRAWN - GSJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - BJJ | REVISED - |
| PLOT DATE = 7/9/2024 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAEWELL | 59 | 8 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

78001110 PAINT PAVEMENT MARKING - LINE 4"

| CH 7 (TOWNLINER ROAD) | | | | | FOOT |
|-----------------------|---------|----|----|----------|-------|
| LT | 8+00.00 | TO | LT | 12+90.00 | 490 |
| CL | 8+00.00 | TO | CL | 12+90.00 | 613 |
| RT | 8+00.00 | TO | RT | 12+00.00 | 400 |
| TOTAL | | | | | 1,503 |

78200005 GUARDRAIL REFLECTORS, TYPE A

| CH 7 (TOWNLINER ROAD) | | | | | EACH |
|-----------------------|---------|----|----|----------|------|
| LT | 8+46.00 | TO | LT | 12+91.50 | 4 |
| RT | 8+46.00 | TO | RT | 11+54.00 | 4 |
| TOTAL | | | | | 8 |

X2501000 SEEDING, CLASS 2 (SPECIAL)

| CH 7 (TOWNLINER ROAD) | | | | | ACRE |
|-----------------------|----------|----|----|----------|--------|
| LT | 8+00.00 | TO | LT | 9+48.00 | 0.0625 |
| RT | 8+00.00 | TO | RT | 9+48.00 | 0.0625 |
| LT | 10+52.00 | TO | LT | 12+90.00 | 0.0625 |
| RT | 10+52.00 | TO | RT | 12+00.00 | 0.0625 |
| TOTAL | | | | | 0.25 |

X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

| CH 7 (TOWNLINER ROAD) | | L SUM |
|-----------------------|--|-------|
| TOTAL | | 1 |

Z0013798 CONSTRUCTION LAYOUT

| CH 7 (TOWNLINER ROAD) | | L SUM |
|-----------------------|--|-------|
| TOTAL | | 1 |

MODEL: SCH-2 (Sheet) FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-shl-schedule.dgn



| | | | | | |
|--------------|------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633 1/In. | CHECKED - | BJJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**SCHEDULE OF QUANTITIES
CH 7 OVER PRAIRIE CREEK**

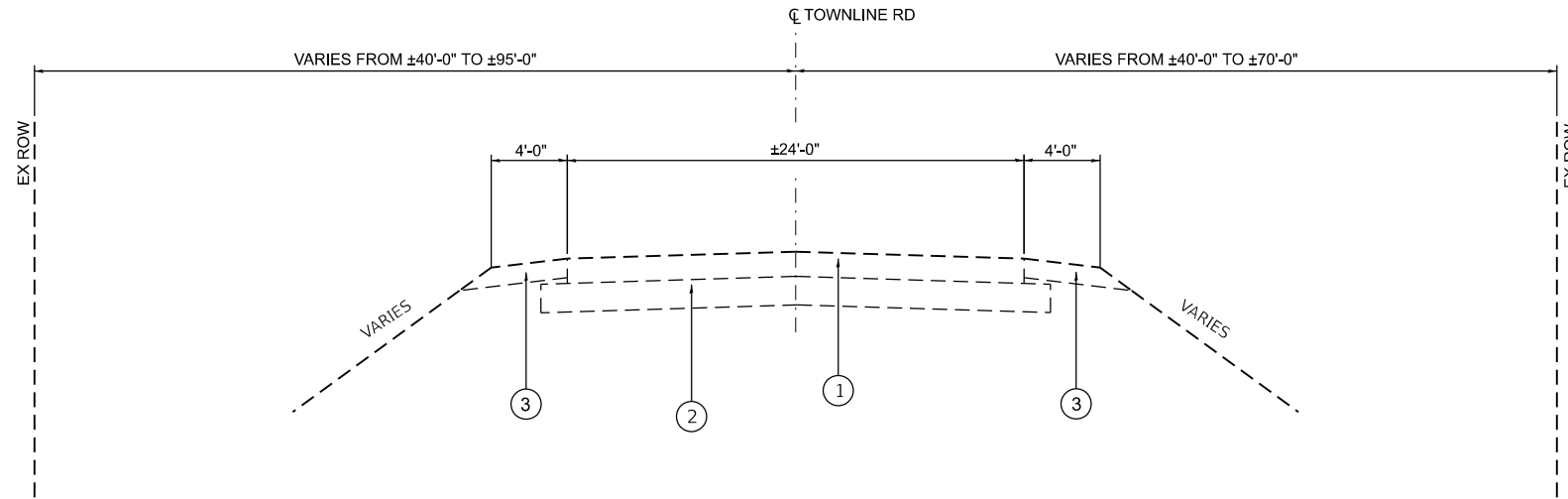
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAEWELL | 59 | 9 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND

- ① EX 7.75" HOT-MIX ASPHALT PAVEMENT
- ② EX 9" AGGREGATE BASE
- ③ EX AGGREGATE SHOULDER
- ④ PR HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH)
- ⑤ PR AGGREGATE BASE COURSE, TYPE B 12"
- ⑥ PR AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ PR CONNECTOR PAVEMENT (HMA)
- ⑧ PR PAINT PAVEMENT MARKING - LINE 4"
- ⑨ PR STEEL PLATE BEAM GUARDRAIL, TYPE A

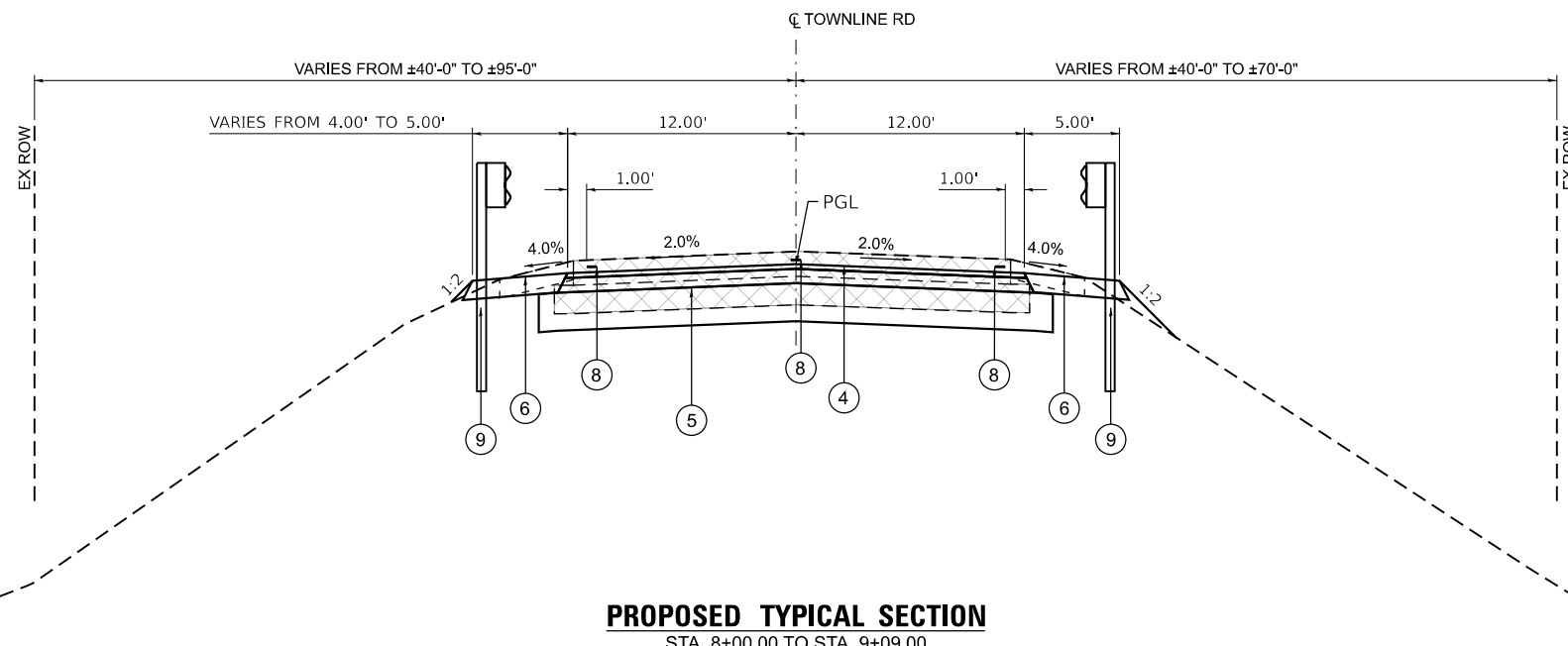
 TO BE REMOVED



EXISTING TYPICAL SECTION

STA. 8+00.00 TO STA. 9+19.00
 STA. 10+81.00 TO STA. 12+00.00
 (LOOKING EAST)

**BRIDGE OMISSION STA.
 9 + 19.00 TO 10 + 81.00**



PROPOSED TYPICAL SECTION

STA. 8+00.00 TO STA. 9+09.00
 STA. 10+91.00 TO STA. 12+00.00
 (LOOKING EAST)

MODEL: Typical1 (Sheet)
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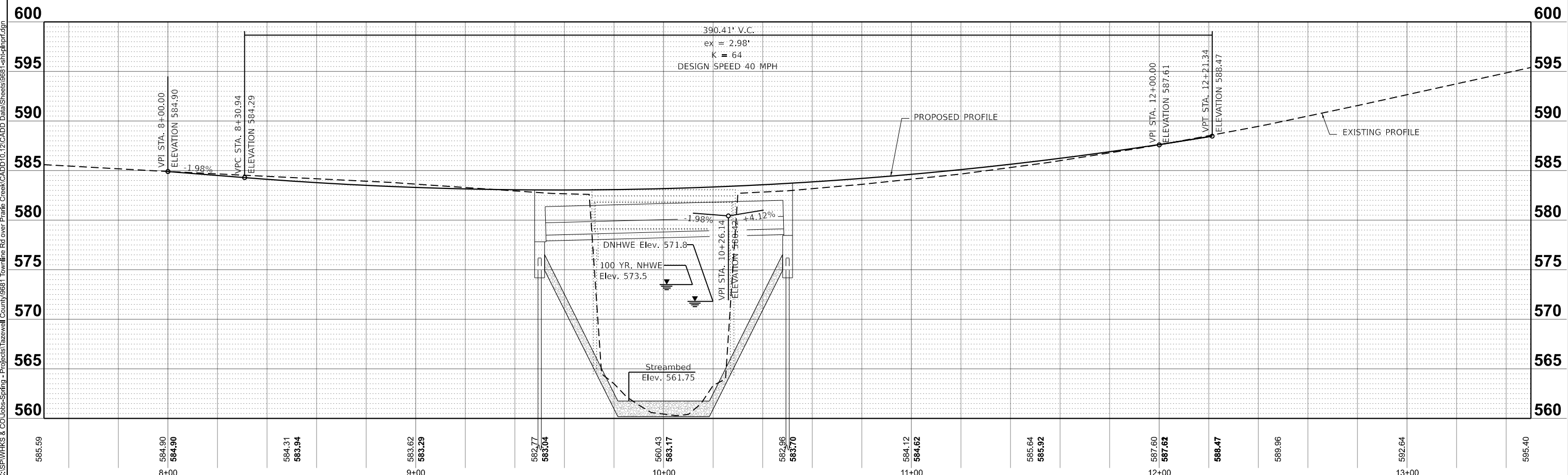
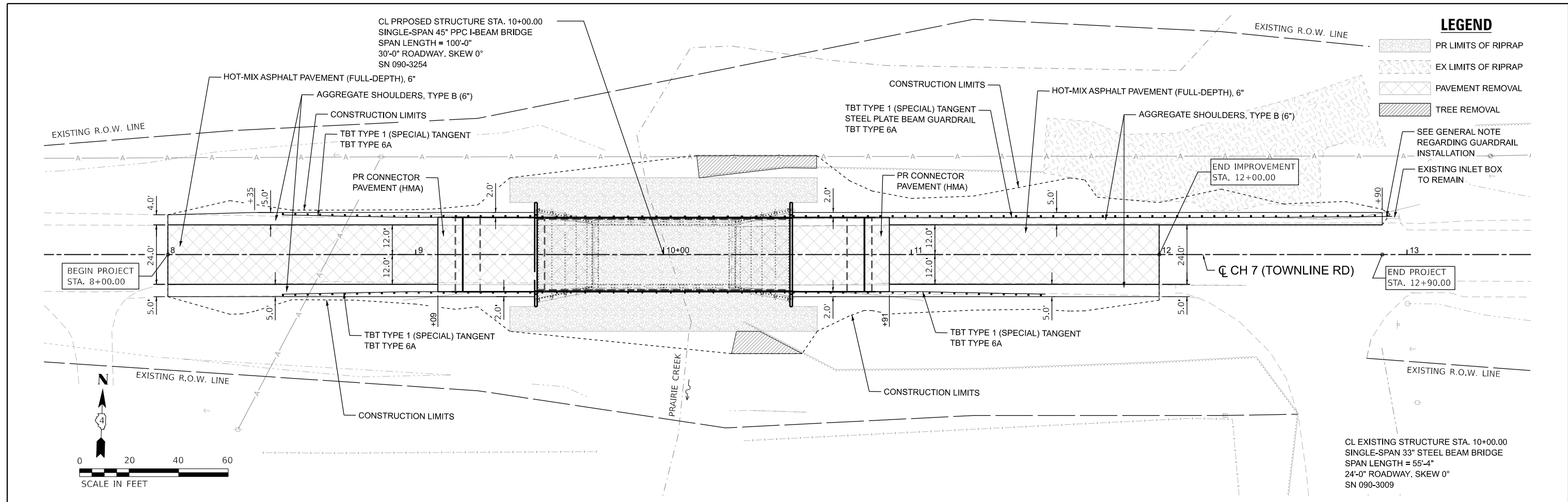
| | | |
|--------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| DRAWN - GSJ | REVISED - | |
| PLOT SCALE = 0.16666633' / in. | CHECKED - CWF | REVISED - |
| PLOT DATE = 7/9/2024 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 10 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



| | | | | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 585.59 | 584.90 | 584.31 | 583.62 | 583.29 | 582.77 | 583.04 | 580.43 | 583.17 | 582.96 | 583.70 | 584.12 | 584.62 | 585.64 | 585.92 | 587.60 | 587.62 | 588.47 | 589.96 | 592.64 | 595.40 |
| | 8+00 | | | 9+00 | | | 10+00 | | | | 11+00 | | | | 12+00 | | | | 13+00 | |

design firm
no. 184001036
whks
engineers + planners + land surveyors

| | | |
|--------------------------------|----------------|-----------|
| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| DRAWN - GSJ | REVISED - | |
| CHECKED - CWF | REVISED - | |
| DATE - | REVISED - | |
| PLOT SCALE = 0.16666633' / in. | | |
| PLOT DATE = 9/6/2024 | | |

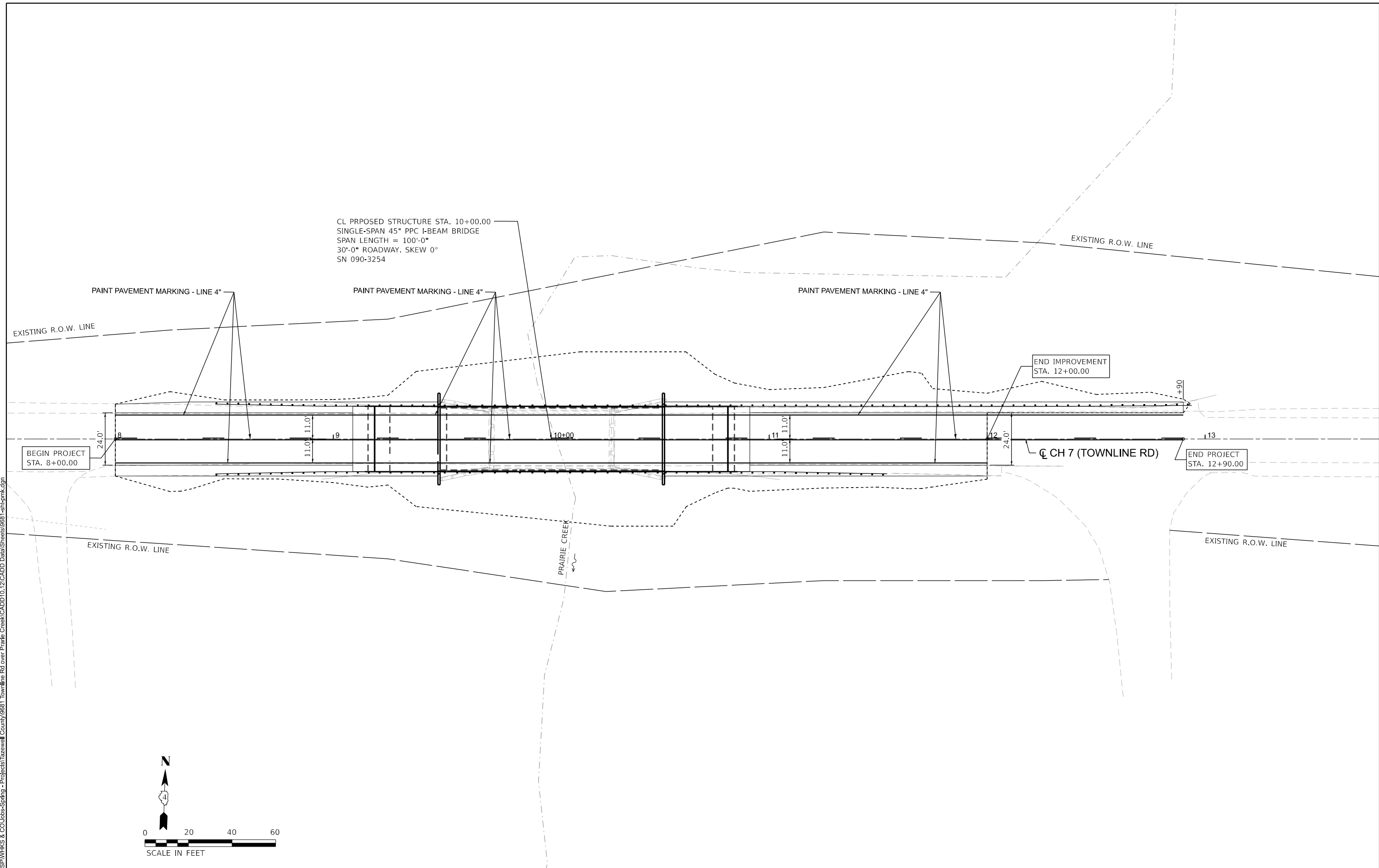
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE
CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 7+50.00 TO STA. 13+50.00

| | | | | |
|---------------------------|------------------------|-----------------|-----------------|--------------|
| F.A.S. RTE. 1481 | SECTION 19-00025-00-BR | COUNTY TAZEWELL | TOTAL SHEETS 59 | SHEET NO. 12 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: P:\MK (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD Data\Sheets\9681-sh1-rmk.dgn



CL PROPOSED STRUCTURE STA. 10+00.00
 SINGLE-SPAN 45" PPC I-BEAM BRIDGE
 SPAN LENGTH = 100'-0"
 30'-0" ROADWAY, SKEW 0°
 SN 090-3254

PAINT PAVEMENT MARKING - LINE 4"

PAINT PAVEMENT MARKING - LINE 4"

PAINT PAVEMENT MARKING - LINE 4"

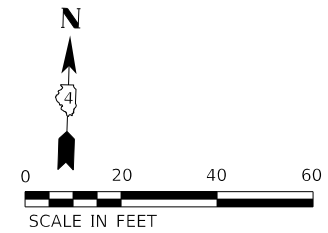
END IMPROVEMENT
 STA. 12+00.00

BEGIN PROJECT
 STA. 8+00.00

END PROJECT
 STA. 12+90.00

CH 7 (TOWNLINE RD)

PRAIRIE CREEK



| | | |
|--------------------------------|----------------|-----------|
| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 7/10/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |



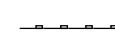
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

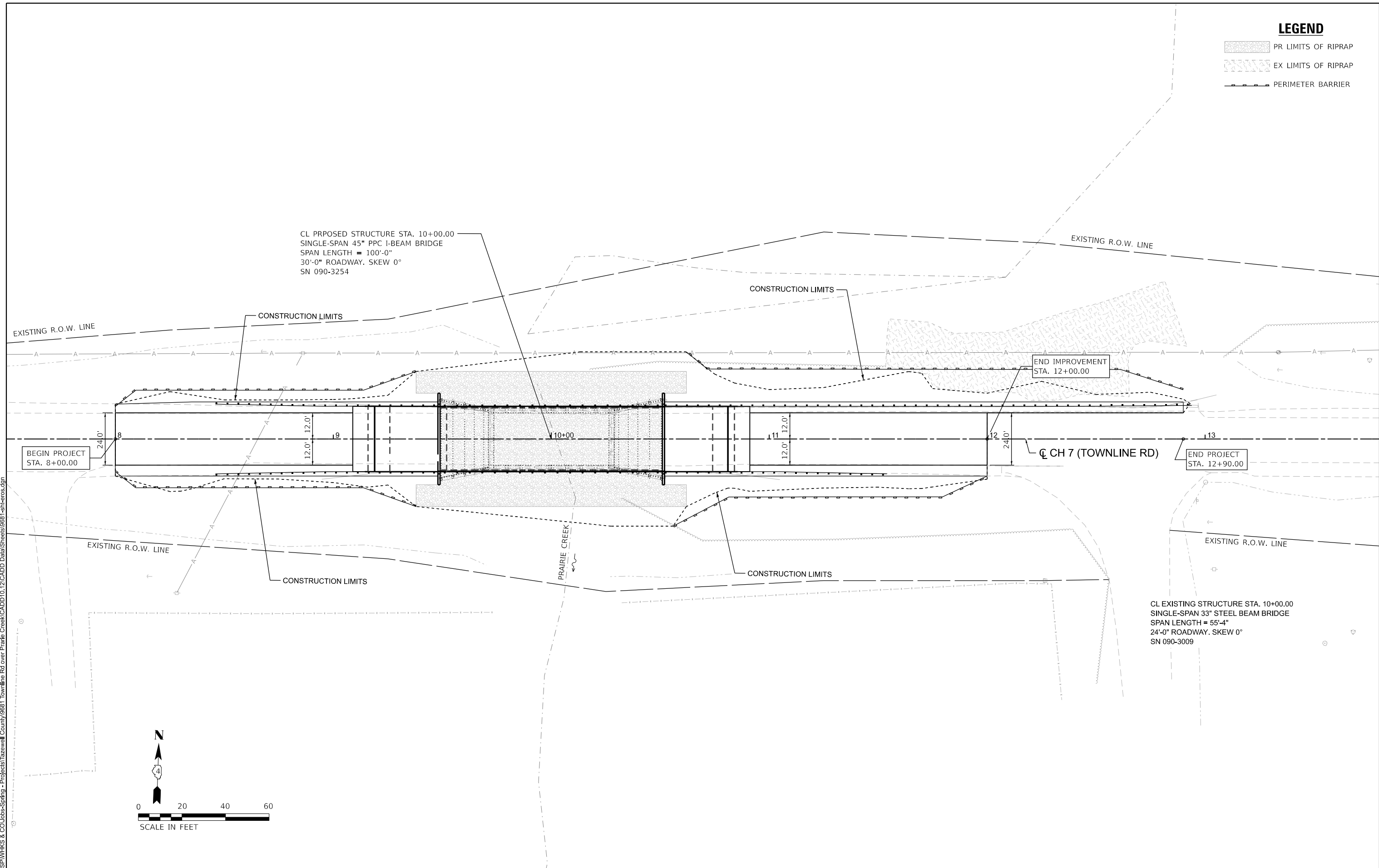
PAVEMENT MARKING PLAN
 CH 7 OVER PRAIRIE CREEK

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 13 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND

-  PR LIMITS OF RIPRAP
-  EX LIMITS OF RIPRAP
-  PERIMETER BARRIER



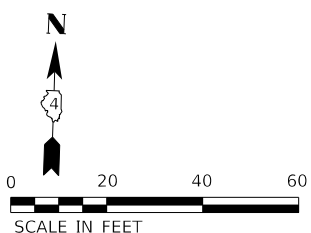
CL PROPOSED STRUCTURE STA. 10+00.00
 SINGLE-SPAN 45" PPC I-BEAM BRIDGE
 SPAN LENGTH = 100'-0"
 30'-0" ROADWAY. SKEW 0°
 SN 090-3254

END IMPROVEMENT
 STA. 12+00.00

BEGIN PROJECT
 STA. 8+00.00

END PROJECT
 STA. 12+90.00

CL EXISTING STRUCTURE STA. 10+00.00
 SINGLE-SPAN 33" STEEL BEAM BRIDGE
 SPAN LENGTH = 55'-4"
 24'-0" ROADWAY. SKEW 0°
 SN 090-3009



MODEL: EROS (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9681-esh-eros.dgn

design firm
 no. 184001036

 engineers + planners + land surveyors

| | | |
|-------------------------------|----------------|-----------|
| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633 1/In. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 7/10/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 CH 7 OVER PRAIRIE CREEK**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 14 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Benchmark: See Roadway Plans.

Existing Structure: SN 090-3009 was built in 1959. The structure is a single span bridge consisting of a 7" reinforced concrete deck on 5 - 33WF130 steel beams. The superstructure is supported by closed abutments consisting of a concrete cap and timber lagging founded on concrete piles. The back-to-back of abutment length is 57'-10" with an out-to-out deck width of 28'-4". The structure is to be removed and replaced utilizing a roadway closure.

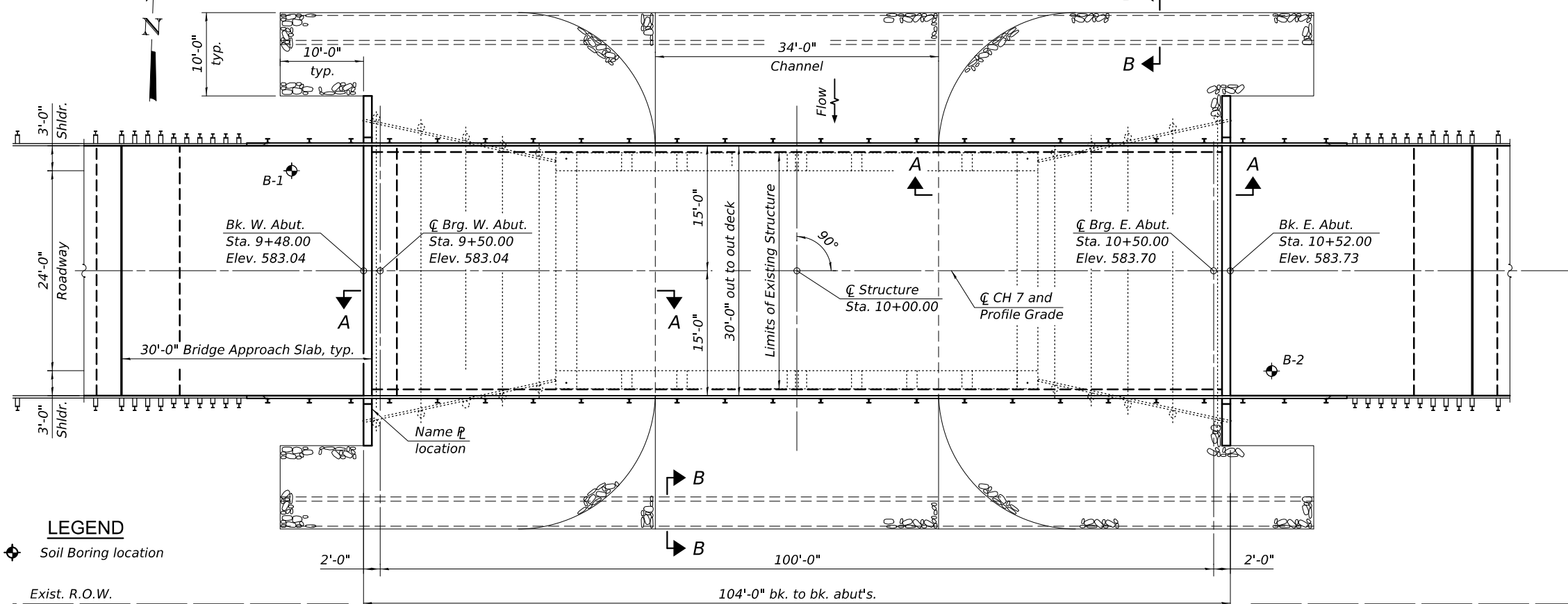
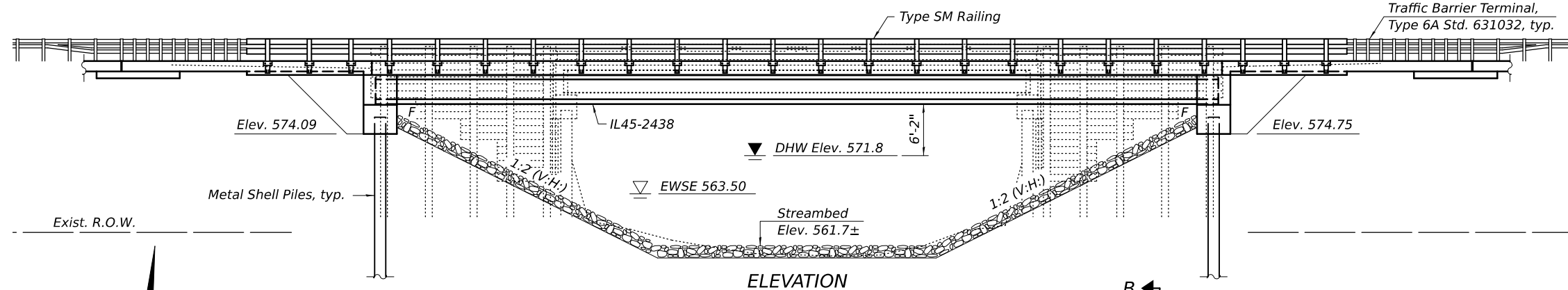
Salvage: None

Notes:

1. See roadway plans for additional utility information, Grading Plan, and Quantities not shown.
2. See sheet 2 of 21 for Proposed Profile Grade, General Notes, Total Bill of Material and Section Thru Abutment.
3. See sheet 2 of 21 for Section A-A and Section B-B.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Top of Slab Elevation Location Plan
4. Top of Slab Elevations
5. West Approach Slab Elevations
6. East Approach Slab Elevations
7. Superstructure
8. Superstructure Details
9. Diaphragm Details
- 10.-11. Bridge Approach Slab Details
12. Steel Railing, Type SM
13. Framing Plan
14. Framing Details
15. IL45-2438 Beam
16. IL45-2438 Beam Details
17. West Abutment
18. East Abutment
19. Metal Shell Pile Details
- 20.-21. Borings



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 (New Construction)

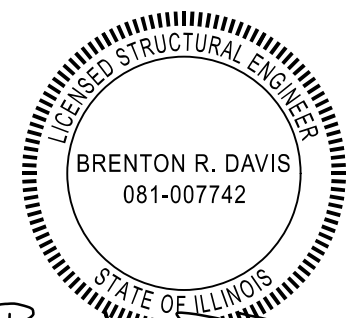
$f_c = 5,000$ psi (Superstructure Concrete)
 $f_c = 3,500$ psi (Substructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS (New Construction)

$f_c = 8,500$ psi
 $f_{ci} = 6,500$ psi
 $f_{pu} = 270,000$ psi (0.6" low lax strands)
 $f_{pbt} = 202,300$ psi (0.6" low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.085g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.145g
 Soil Site Class = C



Brenton R. Davis
 Expires: 11/30/2024

GENERAL PLAN AND ELEVATION
CH 7 OVER PRAIRIE CREEK
FAS 1481 SECTION 19-00025-00-BR
TAZEWELL COUNTY
STA. 10+00.00
STRUCTURE NO. 090-3254

WATERWAY INFORMATION

| Drainage Area = 21.92 sq. mi. | | Existing Low Grade Elev.: 582.60 at Sta. 9+72.50 | | Proposed Low Grade Elev.: 583.03 at Sta. 9+57.70 | | | | | |
|-------------------------------|-----------|--|-------------------------|--|-------------|------------|-------|---------------|-------|
| Flood | Freq. Yr. | Q C.F.S. | Opening Ft ² | | Nat. H.W.E. | Head - Ft. | | Headwater El. | |
| | | | Exist. | Prop. | | Exist. | Prop. | | |
| Design | 10 | 2630 | 359 | 487 | 570.8 | 1.0 | 0.7 | 571.8 | 571.5 |
| | 15 | 3015 | 391 | 531 | 571.4 | 1.2 | 0.7 | 572.6 | 572.1 |
| | 20 | 3285 | 413 | 561 | 571.8 | 1.4 | 0.7 | 573.2 | 572.5 |
| Base | 30 | 3670 | 440 | 599 | 572.3 | 1.6 | 0.7 | 573.9 | 573.0 |
| | 50 | 4120 | 467 | 638 | 572.8 | 2.0 | 0.8 | 574.8 | 573.6 |
| Check | 100 | 4770 | 505 | 693 | 573.5 | 2.7 | 0.8 | 576.2 | 574.3 |
| | 200 | 5465 | 532 | 733 | 574.0 | 3.6 | 1.0 | 577.6 | 575.0 |
| Max. Calc. | 500 | 6390 | 570 | 791 | 574.7 | 4.6 | 1.2 | 579.3 | 575.9 |

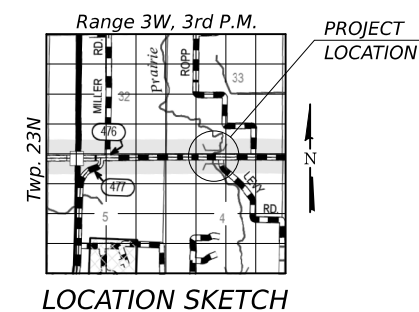
10-Year Velocity through Existing: 5.6 ft/s
 10 Year Velocity through Proposed: 4.9 ft/s

DESIGN SCOUR ELEVATION TABLE

| Event / Limit | Design Scour Elevations (ft.) | | Item |
|---------------|-------------------------------|----------|------|
| | W. Abut. | E. Abut. | |
| State | - | - | 113 |
| Q100 | - | - | |
| Q200 | - | - | |
| Design | 574.14 | 574.80 | |
| Check | 574.14 | 574.80 | 8 |

PRAIRIE CREEK
 BUILT 20 BY
 TAZEWELL COUNTY
 SEC. 19-00025-00-BR
 F.A.S. RT. 1481 (CH7) STA. 10+00.00
 STR. NO. 090-3254 LOADING HL-93

NAME PLATE
 See Std. 515001



| | | |
|-----------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
| PLOT DATE = 325201 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 090-3254
 SHEET 1 OF 21 SHEETS

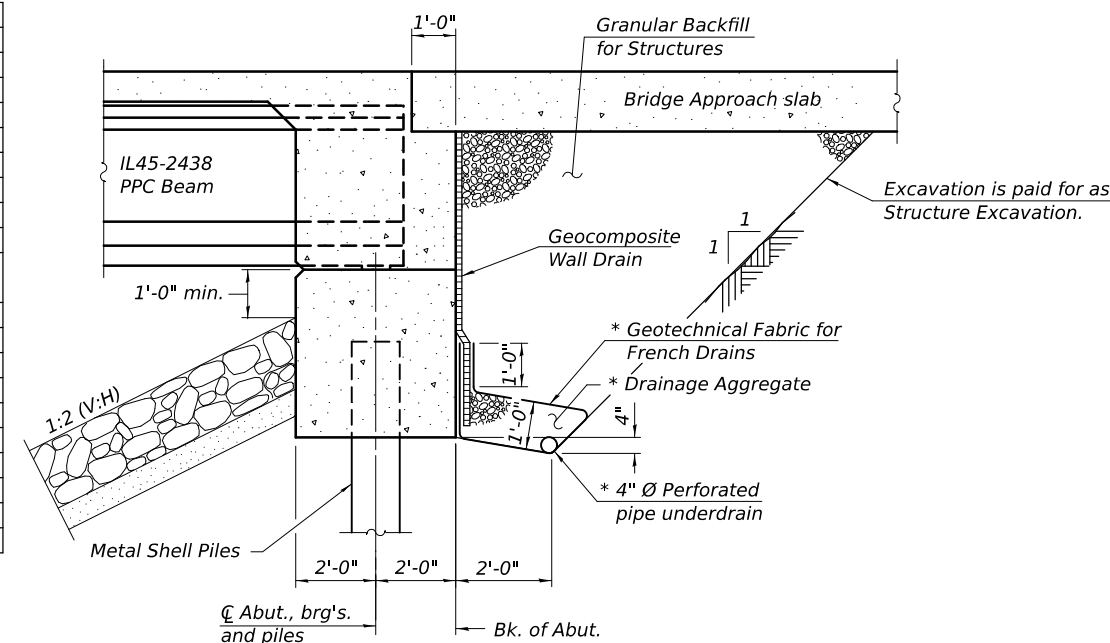
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 15 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
4. Concrete for the bridge superstructure deck and bridge approach slab shall be according to Concrete Class BS in Article 1020.04 of the Standard Specifications except the 28-day mix design compressive strength shall be 5,000 psi minimum.
5. The railing fabricator shall consider the bridge profile grade and deck geometry when preparing shop drawings. Railing shop drawings shall be submitted to the Engineer for review and approval prior to beginning fabrication.

TOTAL BILL OF MATERIAL

| Item | Unit | Super | Sub | Total |
|---|---------|--------|--------|--------|
| Stone Riprap, Class A5 | Ton | | 1,092 | 1,092 |
| Filter Fabric | Sq. Yd. | | 813 | 813 |
| Removal of Existing Structures | Each | 1 | | 1 |
| Structure Excavation | Cu. Yd. | | 265 | 265 |
| Concrete Structures | Cu. Yd. | | 60.7 | 60.7 |
| Concrete Superstructure | Cu. Yd. | 123.9 | | 123.9 |
| Bridge Deck Grooving | Sq. Yd. | 504 | | 504 |
| Protective Coat | Sq. Yd. | 540 | | 540 |
| Concrete Superstructure (Approach Slab) | Cu. Yd. | 85.2 | | 85.2 |
| Furnishing and Erecting Precast Prestressed Concrete Beams, IL45N | Foot | 507 | | 507 |
| Reinforcement Bars, Epoxy Coated | Pound | 55,700 | 10,680 | 66,380 |
| Steel Railing, Type SM | Foot | 264 | | 264 |
| Furnishing Metal Shell Piles 12" X 0.250" | Foot | | 1,072 | 1,072 |
| Driving Piles | Foot | | 1,072 | 1,072 |
| Test Pile Metal Shells | Each | | 2 | 2 |
| Name Plates | Each | | 1 | 1 |
| Granular Backfill for Structures | Cu. Yd. | | 123 | 123 |
| Geocomposite Wall Drain | Sq. Yd. | | 72 | 72 |
| Pipe Underdrains for Structures 4" | Foot | | 140 | 140 |
| Bar Terminators | Each | 62 | 276 | 338 |

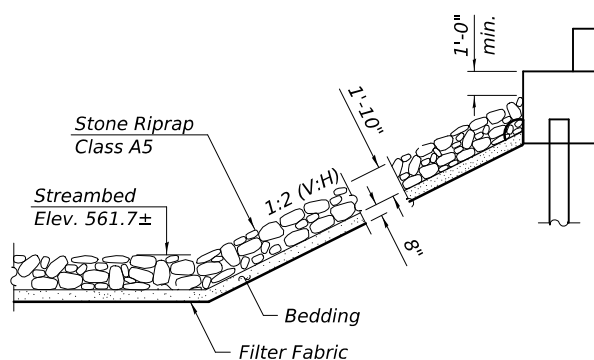


SECTION THRU INTEGRAL ABUTMENT

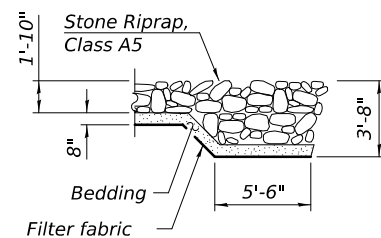
* Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:

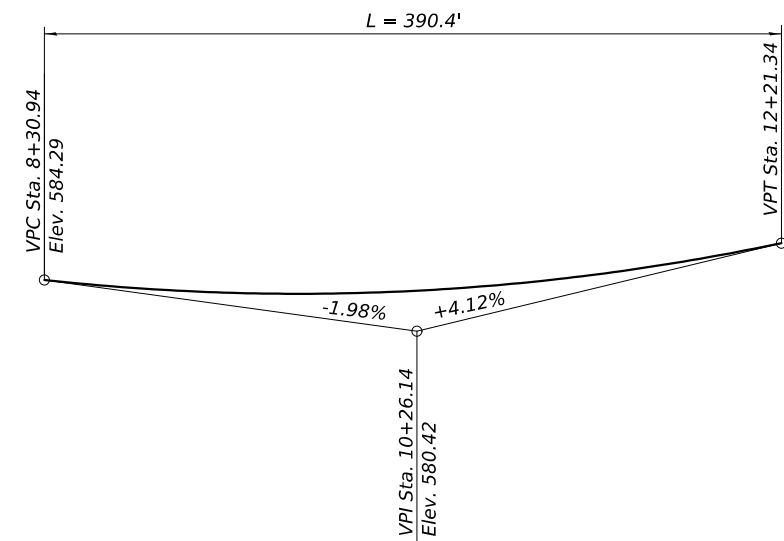
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A



SECTION B-B



PROPOSED PROFILE
(Along C CH 7)

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Townline Rd over Parle Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 184001036

engineers + planners + land surveyors

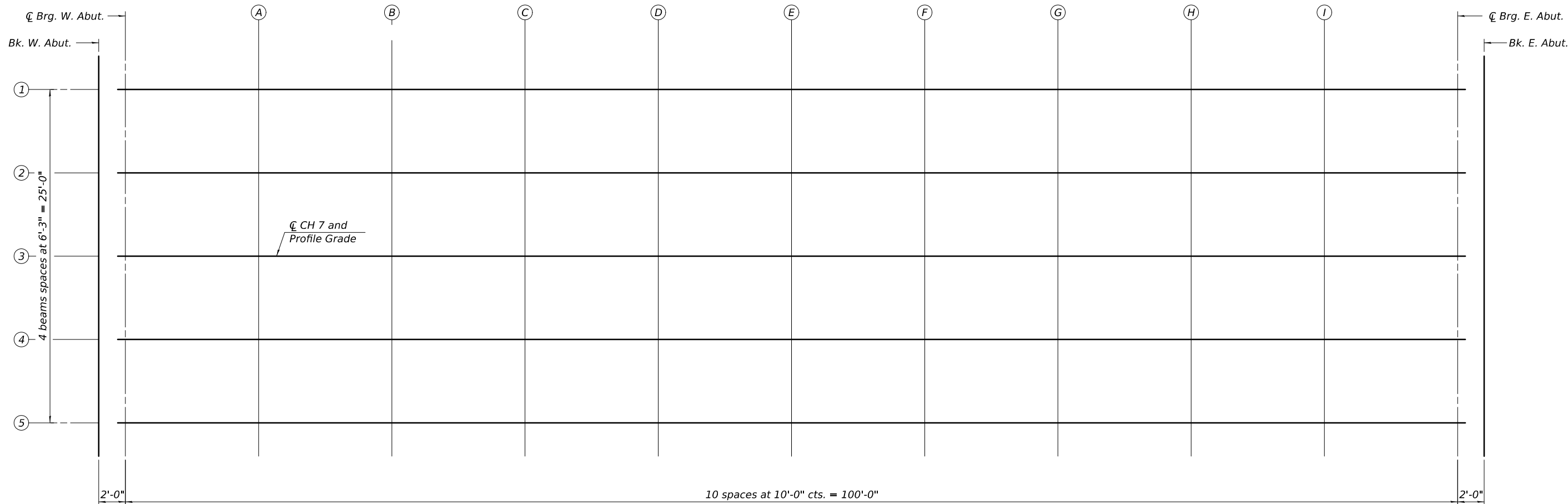
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|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:45 PM | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 090-3254

SHEET 2 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 16 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PLAN

FILE NAME: C:\SP\WHKS & CO\Jobs\Spring - Projects\Tazewell County\6881 Towline Rd over Parle Creek\CADD\1012\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 184001036



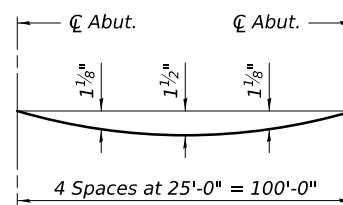
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| USER NAME = jmont | DESIGNED - JLM | REVISED |
| | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:46 PM | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION LOCATION PLAN
STRUCTURE NO. 090-3254**

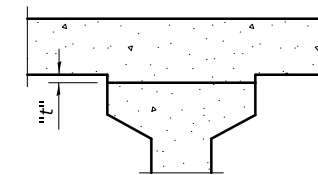
SHEET 3 OF 21 SHEETS

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|----------|------------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 17 |
| CONTRACT NO. | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



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

FILLET HEIGHTS

BEAM 1

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. W. Abut. | 9+48.00 | -12.5 | 582.79 | 582.79 |
| C Brg. W. Abut. | 9+50.00 | -12.5 | 582.79 | 582.79 |
| A | 9+60.00 | -12.5 | 582.78 | 582.83 |
| B | 9+70.00 | -12.5 | 582.80 | 582.88 |
| C | 9+80.00 | -12.5 | 582.82 | 582.93 |
| D | 9+90.00 | -12.5 | 582.87 | 582.99 |
| E | 10+00.00 | -12.5 | 582.92 | 583.06 |
| F | 10+10.00 | -12.5 | 583.00 | 583.12 |
| G | 10+20.00 | -12.5 | 583.09 | 583.20 |
| H | 10+30.00 | -12.5 | 583.19 | 583.27 |
| I | 10+40.00 | -12.5 | 583.31 | 583.36 |
| C Brg. E. Abut. | 10+50.00 | -12.5 | 583.45 | 583.45 |
| Bk. E. Abut. | 10+52.00 | -12.5 | 583.48 | 583.48 |

BEAM 2

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. W. Abut. | 9+48.00 | -6.25 | 582.92 | 582.92 |
| C Brg. W. Abut. | 9+50.00 | -6.25 | 582.91 | 582.91 |
| A | 9+60.00 | -6.25 | 582.91 | 582.95 |
| B | 9+70.00 | -6.25 | 582.92 | 583.00 |
| C | 9+80.00 | -6.25 | 582.95 | 583.06 |
| D | 9+90.00 | -6.25 | 582.99 | 583.12 |
| E | 10+00.00 | -6.25 | 583.05 | 583.18 |
| F | 10+10.00 | -6.25 | 583.12 | 583.25 |
| G | 10+20.00 | -6.25 | 583.21 | 583.32 |
| H | 10+30.00 | -6.25 | 583.32 | 583.40 |
| I | 10+40.00 | -6.25 | 583.44 | 583.48 |
| C Brg. E. Abut. | 10+50.00 | -6.25 | 583.58 | 583.58 |
| Bk. E. Abut. | 10+52.00 | -6.25 | 583.60 | 583.60 |

C CH7, PROFILE GRADE, BEAM 3

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. W. Abut. | 9+48.00 | 0 | 583.04 | 583.04 |
| C Brg. W. Abut. | 9+50.00 | 0 | 583.04 | 583.04 |
| A | 9+60.00 | 0 | 583.03 | 583.08 |
| B | 9+70.00 | 0 | 583.05 | 583.13 |
| C | 9+80.00 | 0 | 583.07 | 583.18 |
| D | 9+90.00 | 0 | 583.12 | 583.24 |
| E | 10+00.00 | 0 | 583.17 | 583.31 |
| F | 10+10.00 | 0 | 583.25 | 583.37 |
| G | 10+20.00 | 0 | 583.34 | 583.45 |
| H | 10+30.00 | 0 | 583.44 | 583.52 |
| I | 10+40.00 | 0 | 583.56 | 583.61 |
| C Brg. E. Abut. | 10+50.00 | 0 | 583.70 | 583.70 |
| Bk. E. Abut. | 10+52.00 | 0 | 583.73 | 583.73 |

BEAM 4

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. W. Abut. | 9+48.00 | 6.25 | 582.92 | 582.92 |
| C Brg. W. Abut. | 9+50.00 | 6.25 | 582.91 | 582.91 |
| A | 9+60.00 | 6.25 | 582.91 | 582.95 |
| B | 9+70.00 | 6.25 | 582.92 | 583.00 |
| C | 9+80.00 | 6.25 | 582.95 | 583.06 |
| D | 9+90.00 | 6.25 | 582.99 | 583.12 |
| E | 10+00.00 | 6.25 | 583.05 | 583.18 |
| F | 10+10.00 | 6.25 | 583.12 | 583.25 |
| G | 10+20.00 | 6.25 | 583.21 | 583.32 |
| H | 10+30.00 | 6.25 | 583.32 | 583.40 |
| I | 10+40.00 | 6.25 | 583.44 | 583.48 |
| C Brg. E. Abut. | 10+50.00 | 6.25 | 583.58 | 583.58 |
| Bk. E. Abut. | 10+52.00 | 6.25 | 583.60 | 583.60 |

BEAM 5

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|-----------------|----------|--------|------------------------------|--|
| Bk. W. Abut. | 9+48.00 | 12.5 | 582.79 | 582.79 |
| C Brg. W. Abut. | 9+50.00 | 12.5 | 582.79 | 582.79 |
| A | 9+60.00 | 12.5 | 582.78 | 582.83 |
| B | 9+70.00 | 12.5 | 582.80 | 582.88 |
| C | 9+80.00 | 12.5 | 582.82 | 582.93 |
| D | 9+90.00 | 12.5 | 582.87 | 582.99 |
| E | 10+00.00 | 12.5 | 582.92 | 583.06 |
| F | 10+10.00 | 12.5 | 583.00 | 583.12 |
| G | 10+20.00 | 12.5 | 583.09 | 583.20 |
| H | 10+30.00 | 12.5 | 583.19 | 583.27 |
| I | 10+40.00 | 12.5 | 583.31 | 583.36 |
| C Brg. E. Abut. | 10+50.00 | 12.5 | 583.45 | 583.45 |
| Bk. E. Abut. | 10+52.00 | 12.5 | 583.48 | 583.48 |

FILE NAME: C:\SP\WHKS & CO\Jobs\Spring - Projects\Tazewell County\681 Townline Rd over Parle Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 184001036

engineers + planners + land surveyors

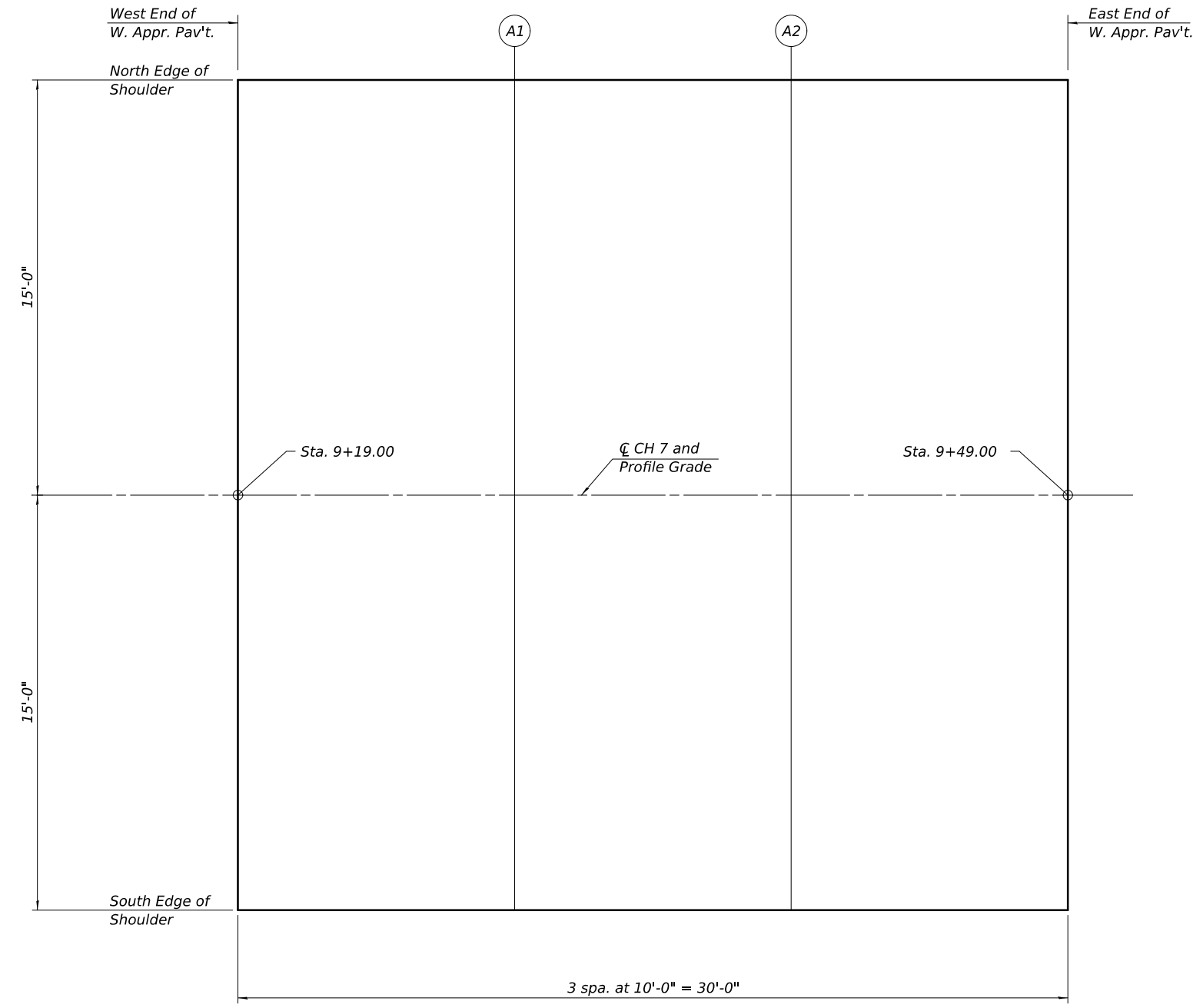
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| USER NAME = jmont | DESIGNED - JLM | REVISED |
| | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:46 PM | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 090-3254**

SHEET 4 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 18 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PLAN

NORTH EDGE OF SHOULDER

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|---------|--------|------------------------------|
| West End of West Appr. Pav't. | 9+19.00 | -15 | 582.85 |
| A1 | 9+29.00 | -15 | 582.80 |
| A2 | 9+39.00 | -15 | 582.76 |
| East End of West Appr. Pav't. | 9+49.00 | -15 | 582.74 |

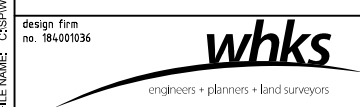
CH 7 AND PROFILE GRADE

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|---------|--------|------------------------------|
| West End of West Appr. Pav't. | 9+19.00 | 0 | 583.15 |
| A1 | 9+29.00 | 0 | 583.10 |
| A2 | 9+39.00 | 0 | 583.06 |
| East End of West Appr. Pav't. | 9+49.00 | 0 | 583.04 |

SOUTH EDGE OF SHOULDER

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|---------|--------|------------------------------|
| West End of West Appr. Pav't. | 9+19.00 | 15 | 582.85 |
| A1 | 9+29.00 | 15 | 582.80 |
| A2 | 9+39.00 | 15 | 582.76 |
| East End of West Appr. Pav't. | 9+49.00 | 15 | 582.74 |

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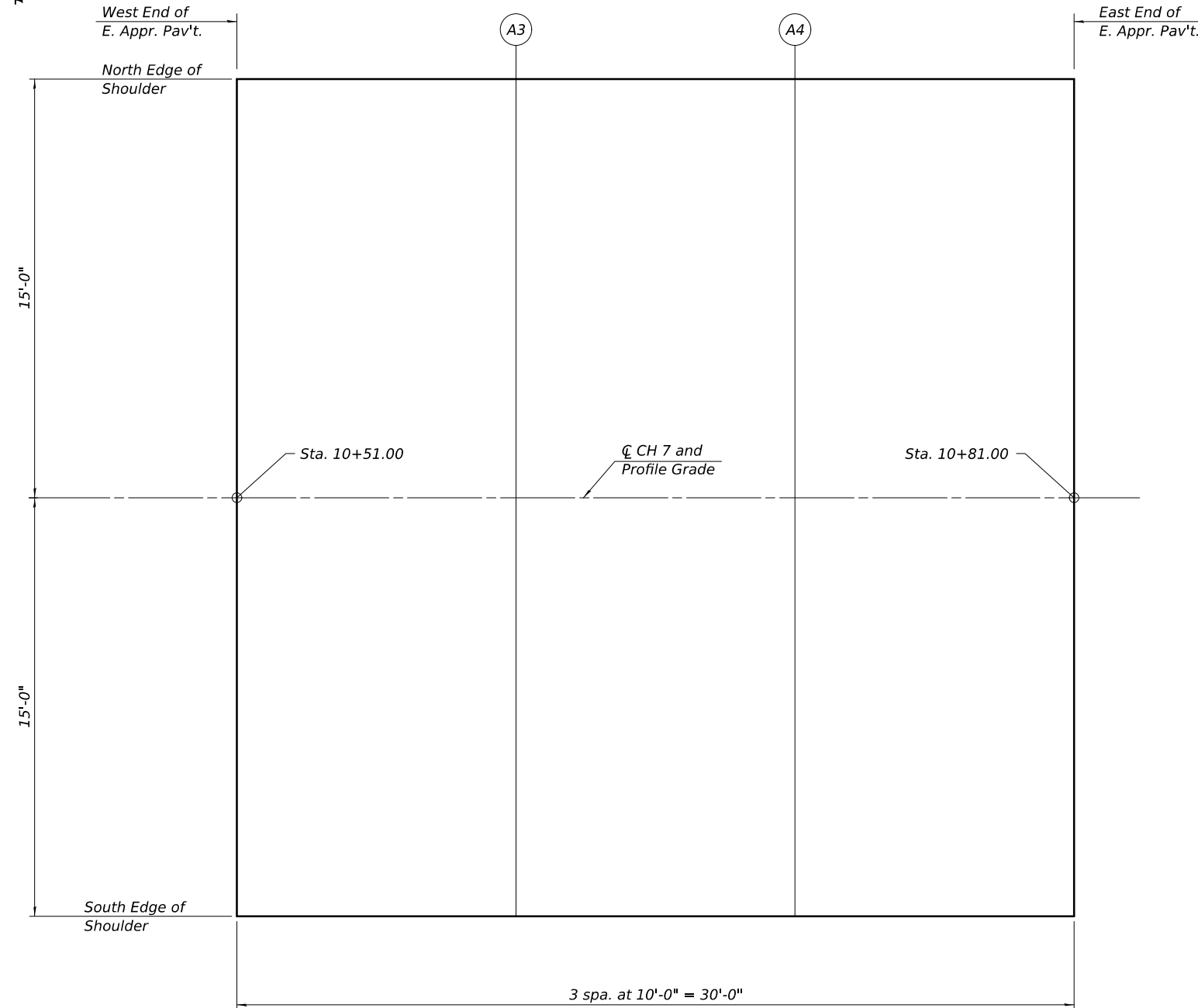
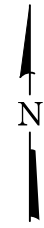
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| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
| PLOT DATE = 3:25:46 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 090-3254**

SHEET 5 OF 21 SHEETS

| | | | | |
|--------------|----------------|----------|------------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 19 |
| CONTRACT NO. | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



PLAN

NORTH EDGE OF SHOULDER

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|----------|--------|------------------------------|
| West End of East Appr. Pav't. | 10+51.00 | -15 | 583.41 |
| A3 | 10+61.00 | -15 | 583.57 |
| A4 | 10+71.00 | -15 | 583.74 |
| East End of East Appr. Pav't. | 10+81.00 | -15 | 583.92 |

CH 7 AND PROFILE GRADE

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|----------|--------|------------------------------|
| West End of East Appr. Pav't. | 10+51.00 | 0 | 583.71 |
| A3 | 10+61.00 | 0 | 583.87 |
| A4 | 10+71.00 | 0 | 584.04 |
| East End of East Appr. Pav't. | 10+81.00 | 0 | 584.22 |

SOUTH EDGE OF SHOULDER

| Location | Station | Offset | Theoretical Grade Elevations |
|-------------------------------|----------|--------|------------------------------|
| West End of East Appr. Pav't. | 10+51.00 | 15 | 583.41 |
| A3 | 10+61.00 | 15 | 583.57 |
| A4 | 10+71.00 | 15 | 583.74 |
| East End of East Appr. Pav't. | 10+81.00 | 15 | 583.92 |

FILE NAME: C:\SP\WHKS & CO\Jobs\Spring - Projects\Tazewell County\6881 Towline Rd over Parle Creek\CADD\12\CADD Data\Edge\SN_090-3009.dgn

design firm
no. 184001036



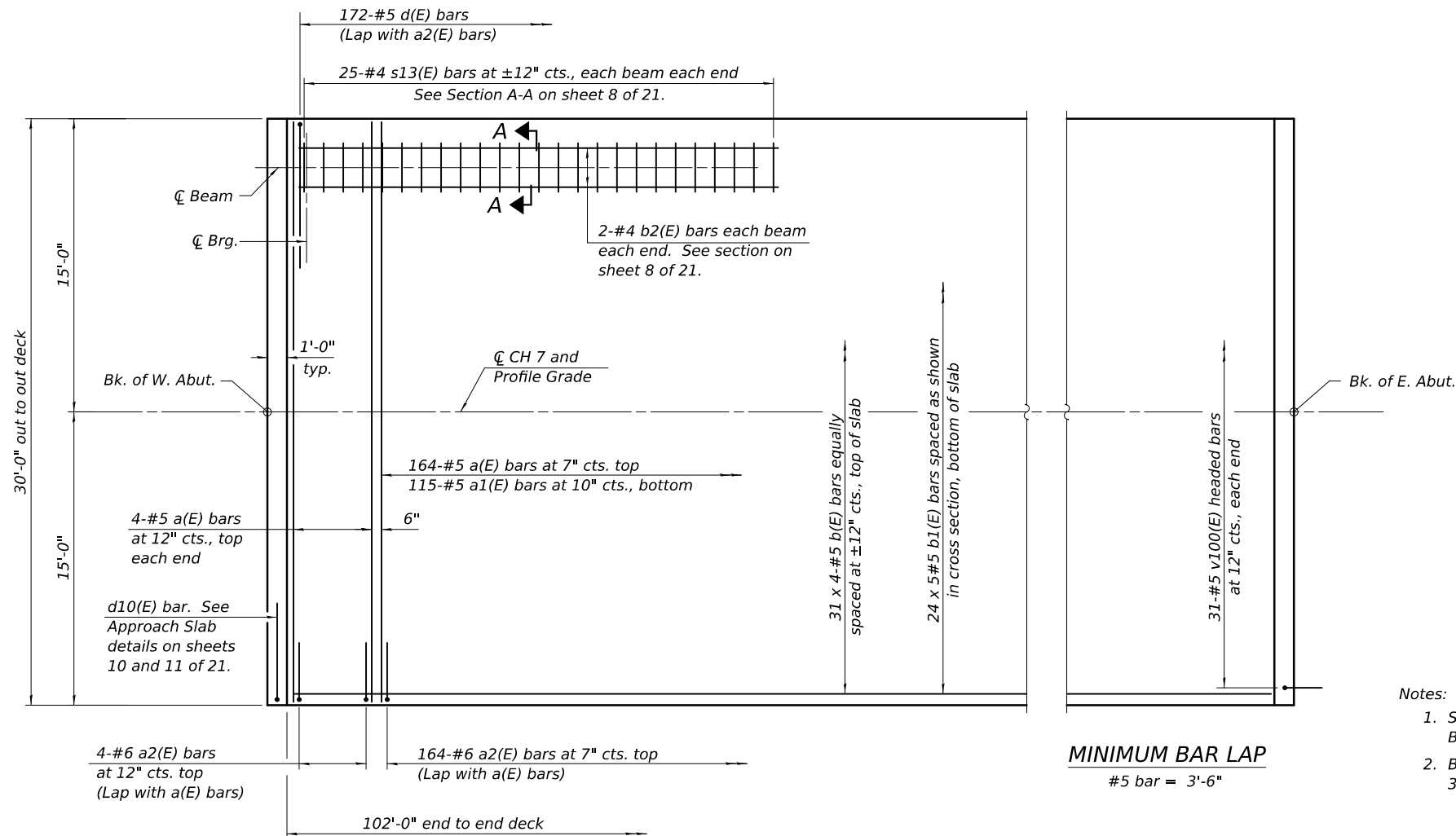
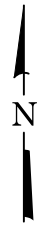
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| PLOT DATE = 3:25:47 PM | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 090-3254**

SHEET 6 OF 21 SHEETS

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|----------|------------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 20 |
| CONTRACT NO. | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

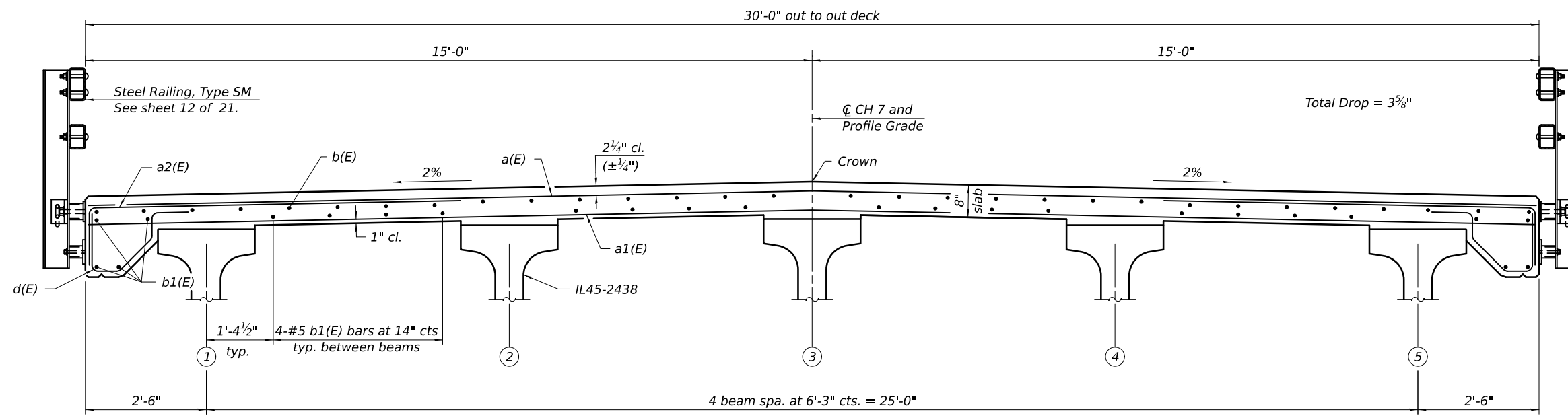


PLAN

Notes:

1. See sheet 8 of 21 for Section A-A, superstructure details, and Bill of Material.
2. Bars indicated thus 20 x 3-#5 etc. indicates 20 line of bars with 3 lengths per line.

MINIMUM BAR LAP
#5 bar = 3'-6"



CROSS SECTION
(Looking East)

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Towline Rd over Parale Creek\CADD\Drawings\SN_090-3009.dgn

design firm
no. 184001036



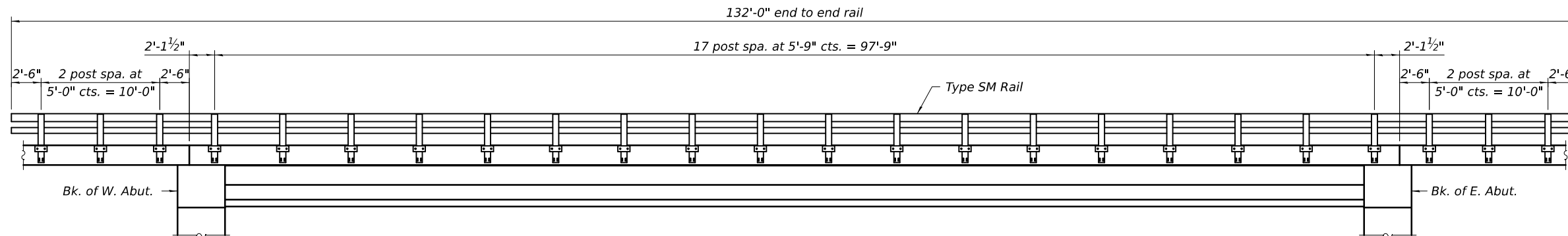
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| PLOT DATE = 3:25:47 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

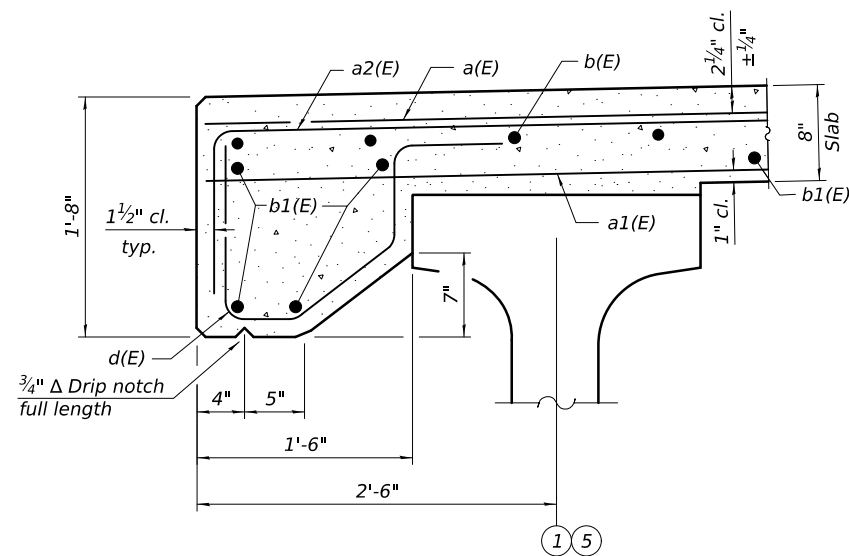
SUPERSTRUCTURE
STRUCTURE NO. 090-3254

SHEET 7 OF 21 SHEETS

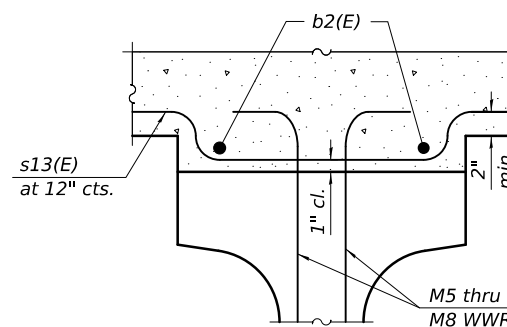
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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 21 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



RAIL POST SPACING
(South railing shown, North railing similar.)



SECTION THRU DECK OVERHANG



SECTION A-A

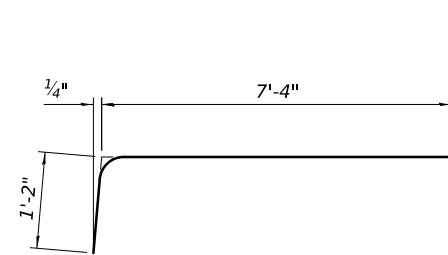
Notes:

1. Bar Terminators, paid for separately. See Total Bill of Materials.
2. All edges shall have 3/4" chamfer.
3. See sheet 12 of 21 for steel railing, Type SM details.

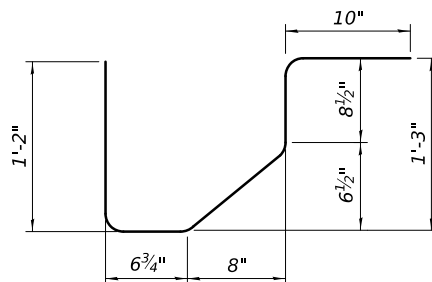
**SUPERSTRUCTURE
BILL OF MATERIAL**

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|----------|--------|
| a(E) | 172 | #5 | 29'-8" | — |
| a1(E) | 115 | #5 | 29'-8" | — |
| a2(E) | 344 | #6 | 8'-6" | — |
| b(E) | 124 | #5 | 28'-3" | — |
| b1(E) | 120 | #5 | 23'-3" | — |
| b2(E) | 20 | #4 | 24'-0" | — |
| d(E) | 344 | #5 | 4'-2" | — |
| m10(E) | 12 | #6 | 29'-8" | — |
| m11(E) | 32 | #6 | 4'-11" | — |
| m12(E) | 16 | #6 | 1'-8" | — |
| m13(E) | 8 | #6 | 2'-9" | — |
| m14(E) | 4 | #6 | 0'-7" | — |
| m15(E) | 20 | #5 | 4'-0" | — |
| s10(E) | 40 | #5 | 10'-3" | — |
| s11(E) | 40 | #5 | 12'-6" | — |
| s12(E) | 40 | #5 | 8'-9" | — |
| s13(E) | 250 | #4 | 3'-10" | — |
| v100(E) | 62 | #5 | 3'-1" | — |
| Reinforcement Bars, Epoxy Coated | | | Pounds | 24,740 |
| Concrete Superstructure | | | Cu. Yds. | 123.9 |
| Bar Terminators | | | Each | 62 |

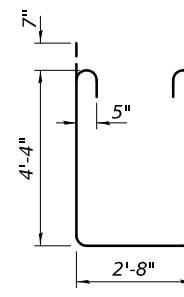
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



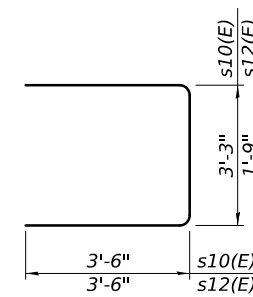
BAR a2(E)



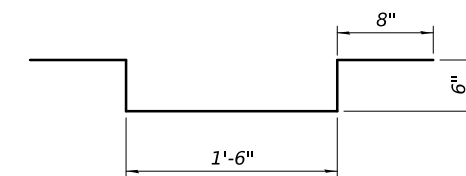
BAR d(E)



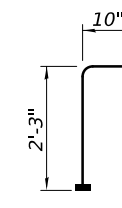
BAR s11(E)



BARS s10(E) & s12(E)



BAR s13(E)



BAR v100(E)
(Headed, 62-#5 Bar terminators)

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\6881 Towline Rd over Parke Creek\CADD\01\2\CADD Data\Bldgs\SN_090-3009.dgn



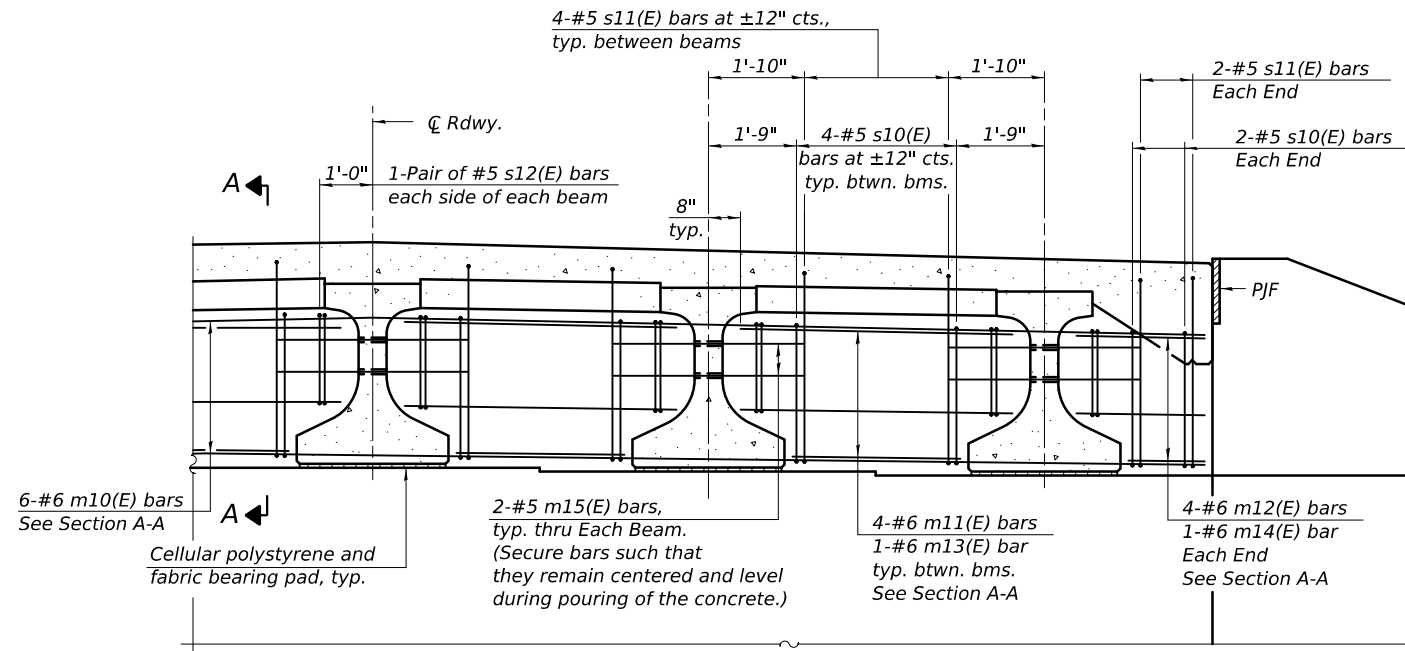
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| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
| PLOT DATE = 3:25:47 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

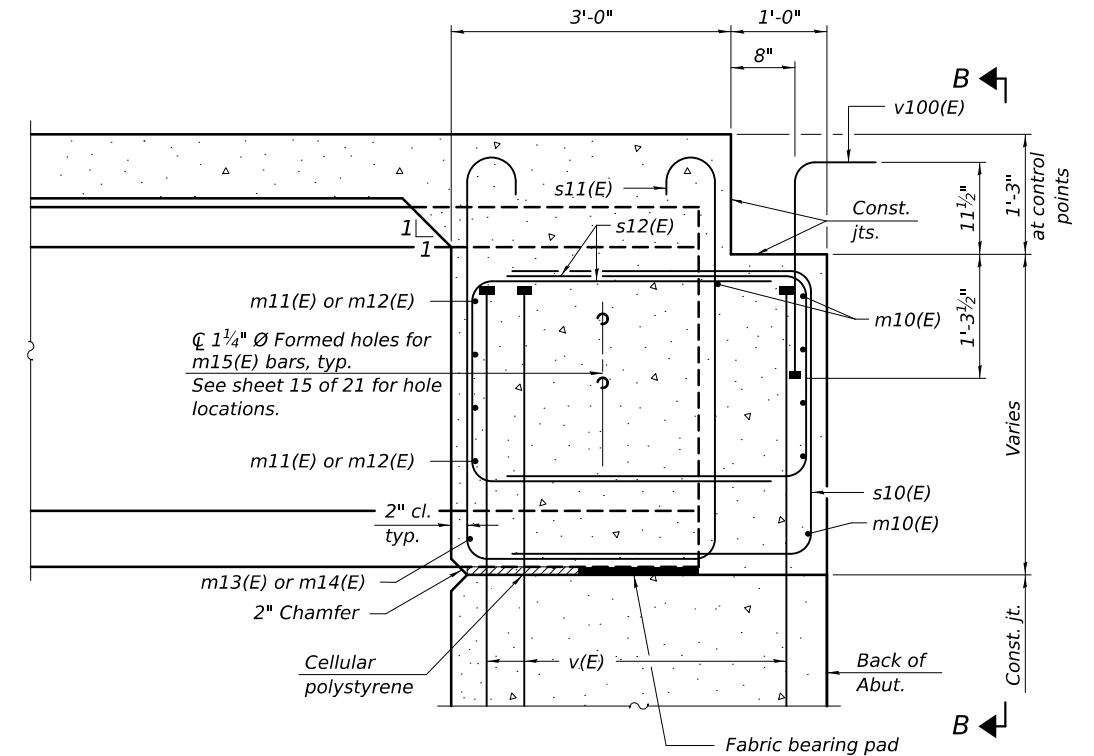
**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 090-3254**

SHEET 8 OF 21 SHEETS

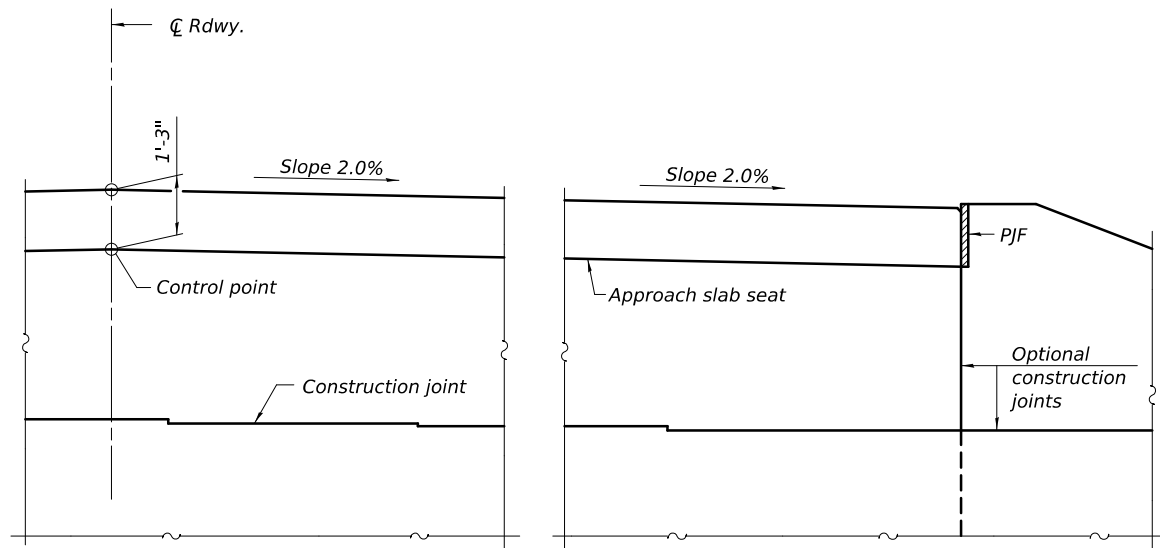
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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 22 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



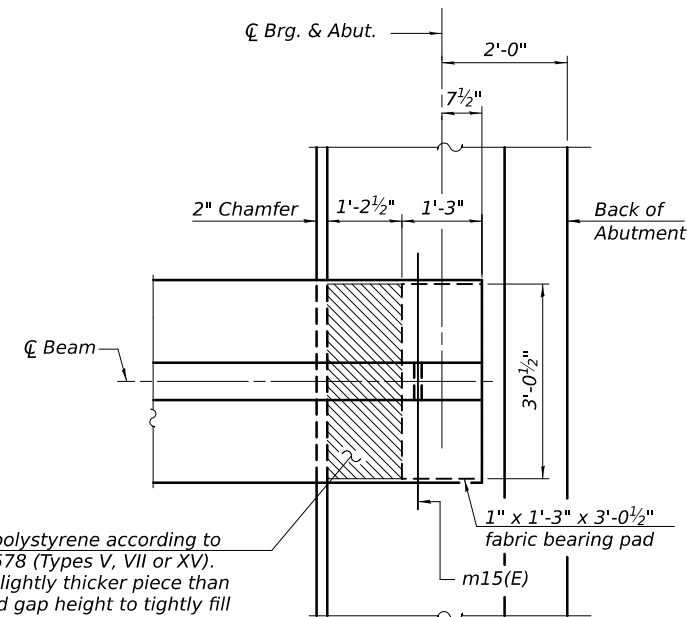
DIAPHRAGM AT ABUTMENT



SECTION A-A



VIEW B-B



PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
See sheet 8 of 21 for superstructure details and Bill of Material.
See sheet 10 of 21 for P.J.F. details.
The approach slab seat shall have a constant slope determined from the control points shown.
Cost of cellular polystyrene is included with Concrete Superstructure.

FILE NAME: C:\SP\HWKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Towline Rd over Parle Creek\CADD\1012\CADD Data\Bldgs\SN_090-3009.dgn



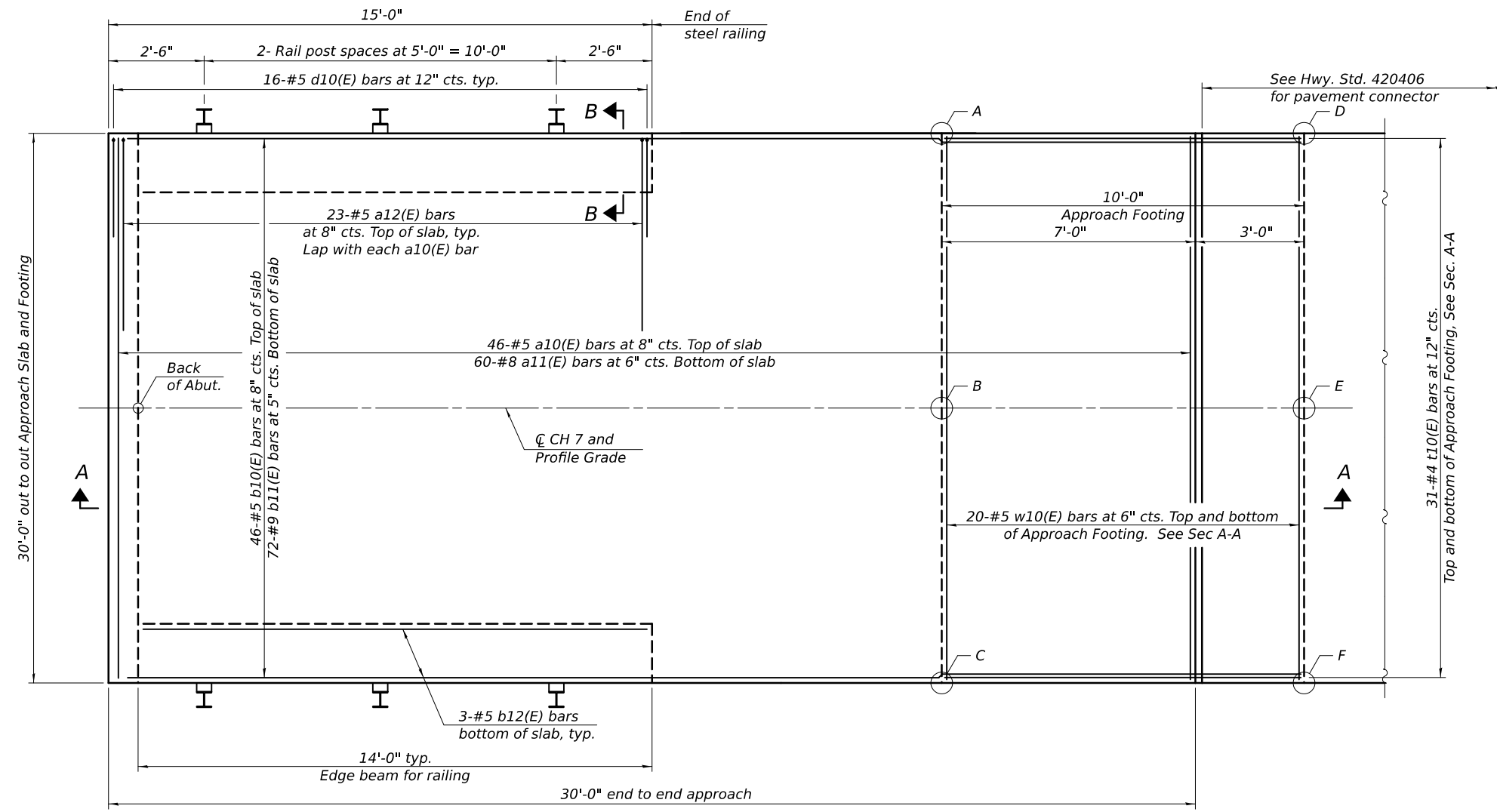
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|------------------------------|------------------------|-------------------------|---------|
| design firm no. 184001036 | USER NAME = jmont | DESIGNED - GEM | REVISED |
| | | CHECKED - BRD | REVISED |
| | PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| | PLOT DATE = 3:25:48 PM | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 090-3254

SHEET 9 OF 21 SHEETS

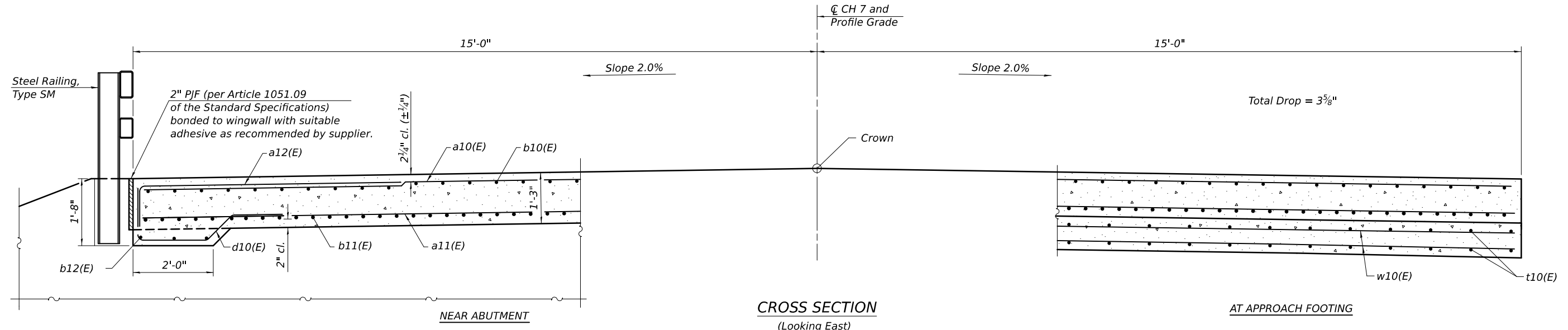
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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 23 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

| Point/ Location | West Approach | | Each Approach | | |
|--------------------|---------------|--------|--------------------|--------|--------|
| | Top | Bottom | Point/ Location | Top | Bottom |
| A - | 581.56 | 580.73 | A - | 582.54 | 581.71 |
| B - | 581.86 | 581.03 | B - | 582.84 | 582.01 |
| C - | 581.56 | 580.73 | C - | 582.54 | 581.71 |
| D - | 581.62 | 580.79 | D - | 582.73 | 581.90 |
| E - | 581.92 | 581.09 | E - | 583.03 | 582.20 |
| F - | 581.62 | 580.79 | F - | 582.73 | 581.90 |

PLAN
(East approach slab shown; West approach slab similar by 180° rotation)



CROSS SECTION
(Looking East)

BAIA-CIP-R34-0

2-1-2023

(Sheet 1 of 2)

design firm
no. 184001036



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - GEM | REVISED |
| CHECKED - BRD | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:48 PM | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

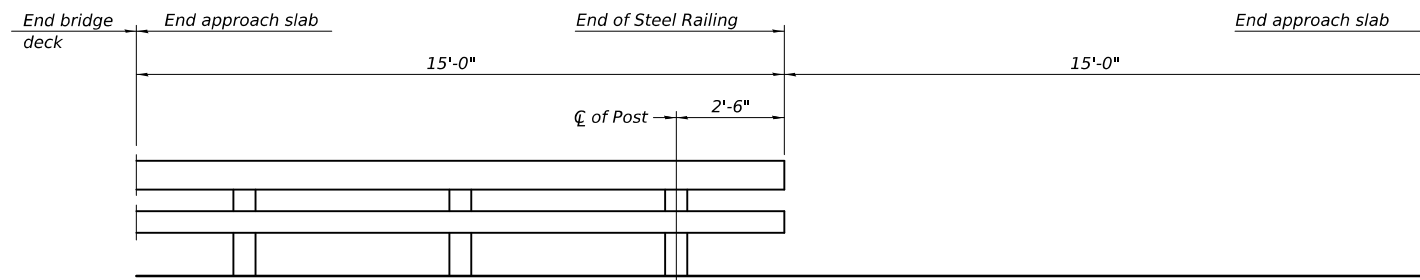
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 090-3254**

SHEET 10 OF 21 SHEETS

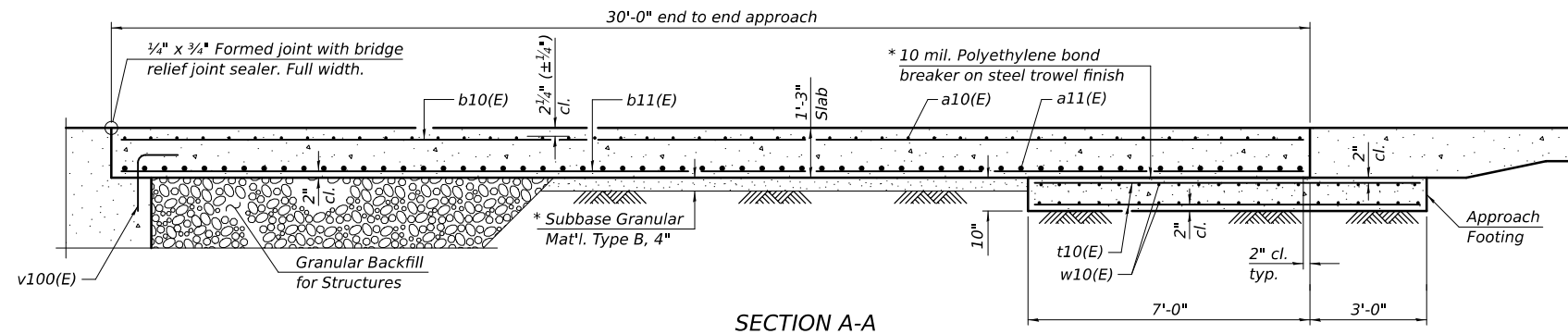
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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 24 |
| CONTRACT NO. | | | | |

ILLINOIS FED. AID PROJECT

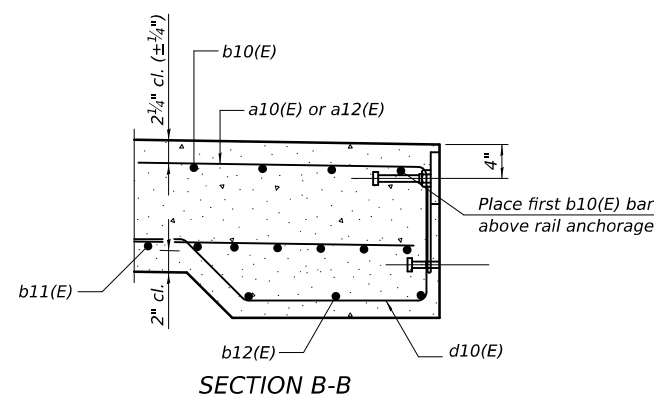
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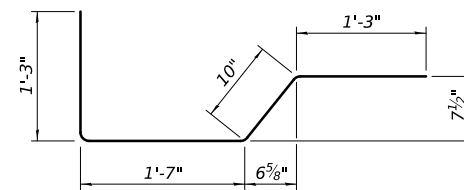
INSIDE ELEVATION OF RAILING



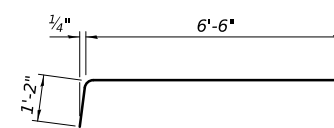
SECTION A-A



SECTION B-B



BAR d10(E)



BAR a12(E)

Notes:

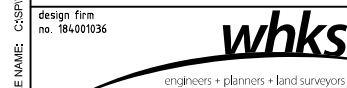
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
3. Approach footing concrete shall be paid for as Concrete Structures.
4. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
5. Cost of excavation for approach footing included with Concrete Structures.
6. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.
7. For railing details, see sheet 12 of 21.

**TWO APPROACHES
BILL OF MATERIAL**

| Bar | No. | Size | Length | Shape |
|---|-----|------|---------|--------|
| a10(E) | 92 | #5 | 29'-8" | — |
| a11(E) | 120 | #8 | 29'-8" | — |
| a12(E) | 92 | #5 | 7'-8" | — |
| b10(E) | 92 | #5 | 29'-8" | — |
| b11(E) | 144 | #9 | 29'-8" | — |
| b12(E) | 12 | #5 | 13'-8" | — |
| d10(E) | 64 | #5 | 4'-11" | ┘ |
| t10(E) | 124 | #4 | 9'-8" | — |
| w10(E) | 80 | #5 | 29'-8" | — |
| Concrete Superstructure (Approach Slab) | | | Cu. Yd. | 85.2 |
| Concrete Structures | | | Cu. Yd. | 18.5 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 34,240 |

BAIA-CIP-R34-0

5-15-2023



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| CHECKED - BRD | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

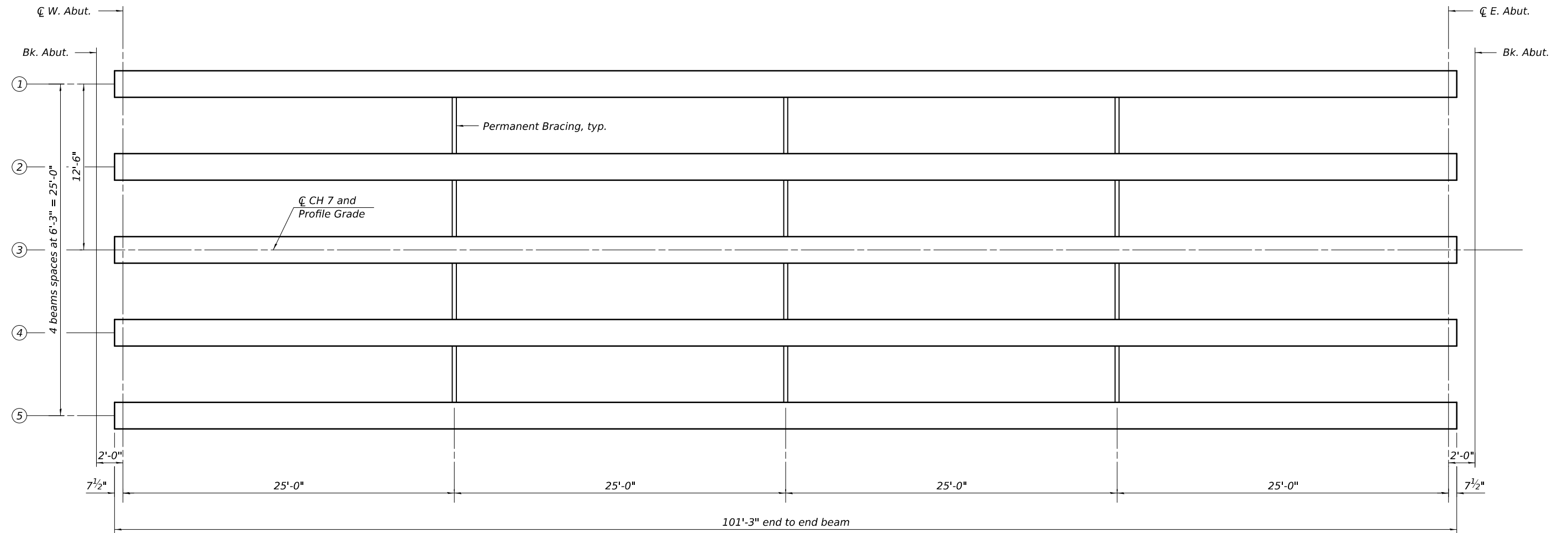
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 090-3254**

(Sheet 2 of 2)

SHEET 11 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 25 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Towline Rd over Prairie Creek\CADD\012\CADD Data\Bldgs\SN_090-3009.dgn



FRAMING PLAN

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Towline Rd over Parke Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 184001036



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
STRUCTURE NO. 090-3254**

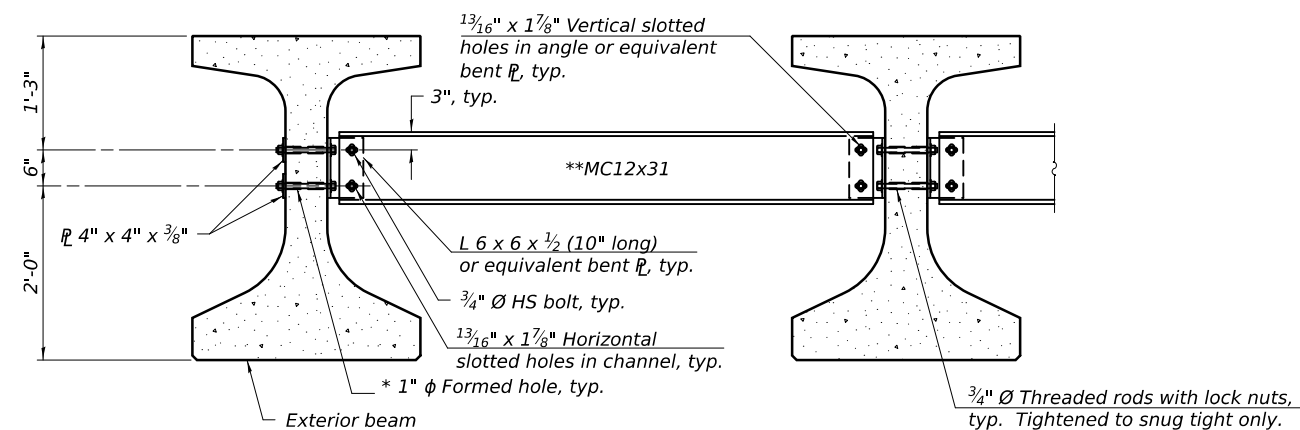
SHEET 13 OF 21 SHEETS

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|----------|------------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 27 |
| CONTRACT NO. | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

- I : Non-composite moment of inertia of beam section (in^4).
- I' : Composite moment of inertia of beam section (in^4).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in^3).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in^3).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in^3).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $LLDF$: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
- M_{L+IM} : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- OCF : Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
- R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
- R_{DC2} : Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
- R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
- R_L : Un-factored live load reaction (kip).
- R_{IM} : Un-factored dynamic load allowance (impact) (kip).
- $R_{Total(Strength I)(Impact)}$: Total factored reaction including dynamic load allowance (impact) (kip).
- $R_{Total(Strength I)(No Impact)}$: Total factored reaction not including dynamic load allowance (impact) (kip).

| INTERIOR BEAM REACTION TABLE | | | |
|------------------------------------|-----|----------|----------|
| Abutments | | | |
| | | Interior | Exterior |
| LLDF | (k) | 0.689 | 0.600 |
| OCF | (k) | - | - |
| R_{DC1} | (k) | 75.6 | 81.5 |
| R_{DC2} | (k) | 1.8 | 1.8 |
| R_{DW} | (k) | 15.0 | 15.0 |
| $R_L + IM$ | (k) | 81.9 | 71.3 |
| $R_{Total(Strength I)(Impact)}$ | (k) | 262.6 | 251.4 |
| $R_{Total(Strength I)(No Impact)}$ | (k) | 236.5 | 228.8 |

| BEAM MOMENT TABLE | | | |
|-------------------|------------|----------|----------|
| 0.5 Sp. 1 | | | |
| | | Interior | Exterior |
| I | (in^4) | 182623 | 182623 |
| I' | (in^4) | 469590 | 450950 |
| S_b | (in^3) | 10045 | 10045 |
| S_b' | (in^3) | 15755 | 15522 |
| S_t | (in^3) | 6809 | 6809 |
| S_t' | (in^3) | 30906 | 28278 |
| $DC1$ | (k') | 1.51 | 1.63 |
| M_{DC1} | (k') | 1894 | 2037 |
| $DC2$ | (k') | 0.04 | 0.04 |
| M_{DC2} | (k') | 45 | 45 |
| DW | (k') | 0.30 | 0.30 |
| M_{DW} | (k') | 375 | 375 |
| LLDF | (k') | 0.55 | 0.60 |
| $M_L + IM$ | (k') | 1556 | 1695 |



PERMANENT BRACING DETAILS

Notes:

1. All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
2. Two hardened washers are required for each set of oversized holes.
3. All holes shall be $1\frac{5}{16}$ " \varnothing unless otherwise noted.
4. $\frac{5}{16}$ " \varnothing x 3" x 3" plate washers are required over all slotted holes.
5. All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55.
6. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
7. Permanent bracing shall not be paid for separately, but shall be included in the cost of furnishing and erecting precast prestressed concrete beams.

* Fabricator shall locate to miss strands within permissible tolerances.

** Alternate MC12x35 channels are permitted to facilitate material acquisition.

FILE NAME: C:\SP\WHKS & CO\Jobs\Spring - Projects\Tazewell County\681 Towline Rd over Prairie Creek\CADD\1012\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 184001036

engineers + planners + land surveyors

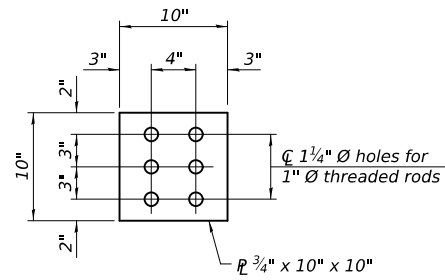
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| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:50 PM | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
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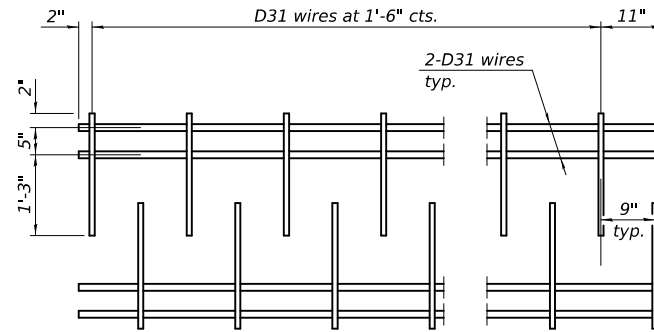
FRAMING DETAILS
STRUCTURE NO. 090-3254

SHEET 14 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 28 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PLAN - TOP PLATE

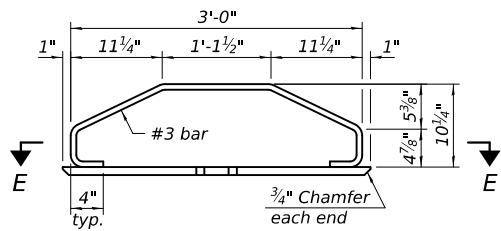


M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").

NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. Bend the extended strands inward on the fascia beams to maintain 1 1/2" clearance inside the pier diaphragm. The top and bottom plates shall be AASHTO M270 Grade 50. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.



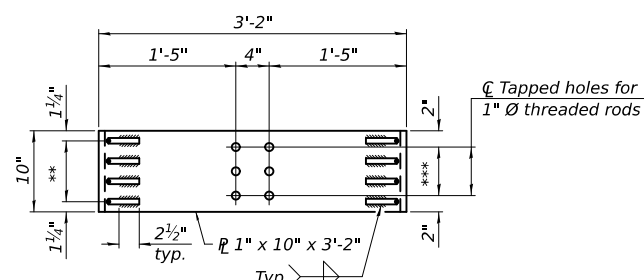
ELEVATION - BOTTOM PLATE ASSEMBLY

TABLE OF DIMENSIONS

(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

SPAN

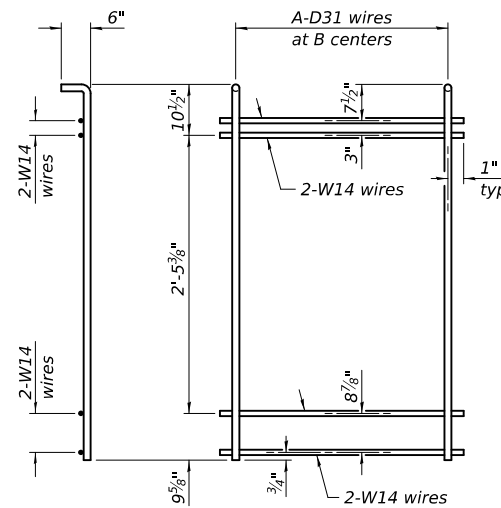
| WWR | A | B |
|-----|----|-------|
| M2 | 9 | 3" |
| M3 | 9 | 6" |
| M4 | 29 | 1'-6" |
| M5 | 12 | 3" |
| M6 | 21 | 6" |
| M7 | 19 | 1'-0" |
| M8 | 9 | 2'-0" |



SECTION E-E

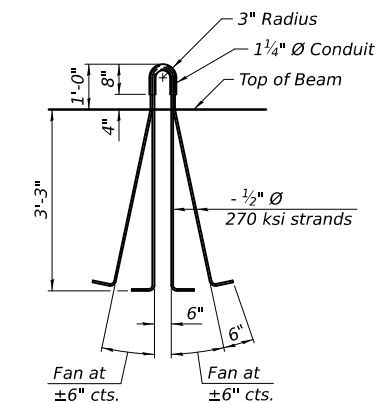
** 3 Spaces at 2 1/2" = 7 1/2"

*** 2 Spaces at 3" = 6"

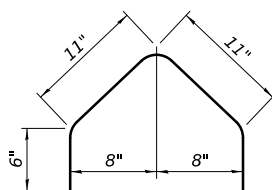


M5 THRU M8 WWR DETAIL

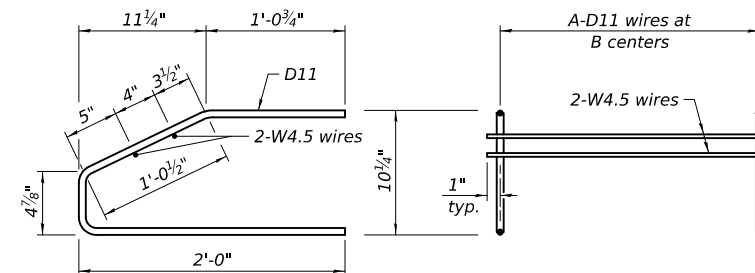
(See Table of Dimensions)



LIFTING LOOP DETAIL



BAR G1(E)



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

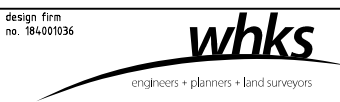
BILL OF MATERIAL

| Item | Unit | Total |
|---|------|-------|
| Furnishing and Erecting Precast Prestressed Concrete Beams, IL45N | Ft. | 507 |

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6861 Towline Rd over Parke Creek\CADD\0112\CADD Data\Bldgs\SN_090-3009.dgn

IL45-2438D

5-15-2023



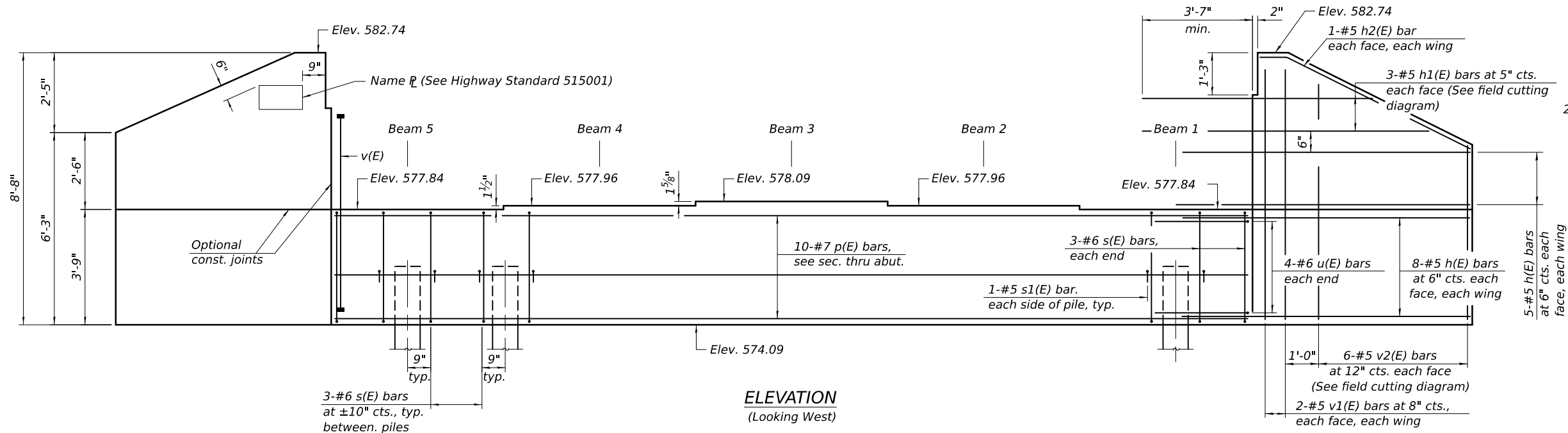
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| | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

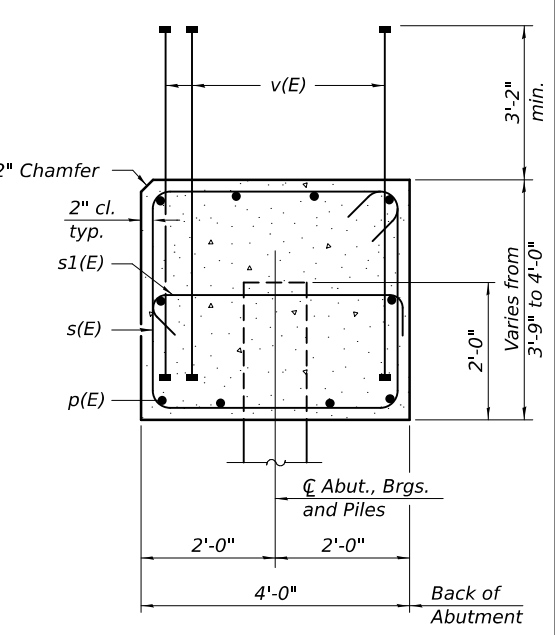
IL45-2438 BEAM DETAILS
STRUCTURE NO. 090-3254

SHEET 16 OF 21 SHEETS

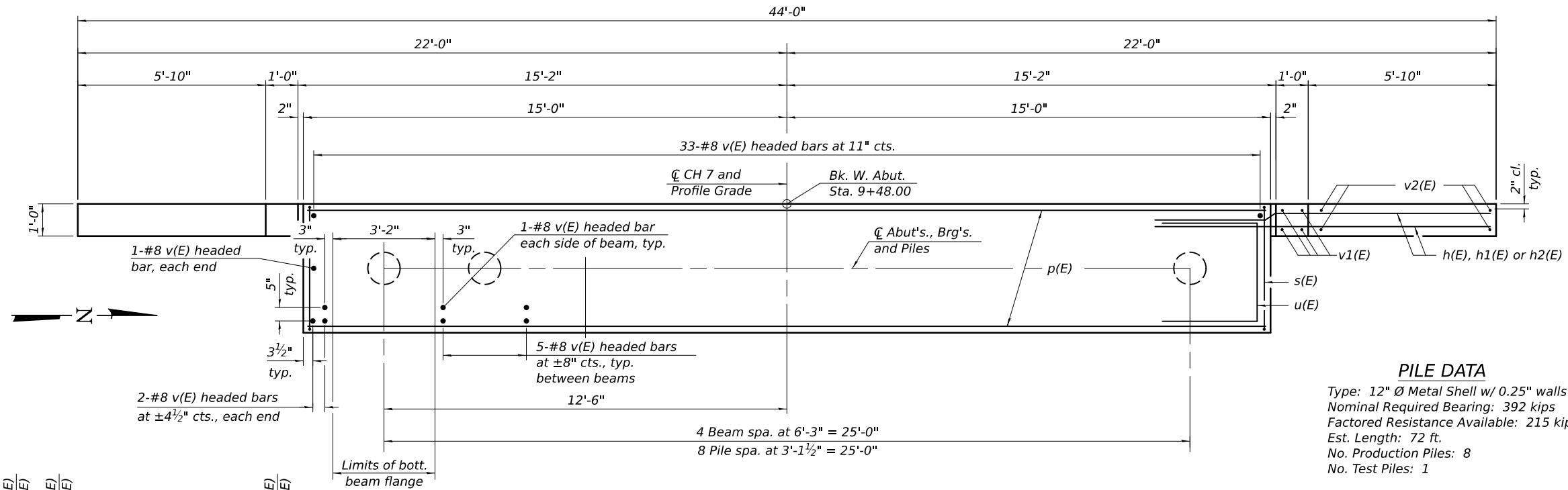
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 30 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



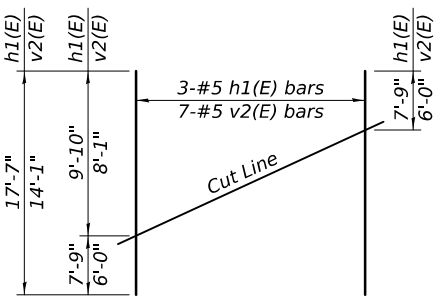
ELEVATION
(Looking West)



SEC. THRU ABUT.

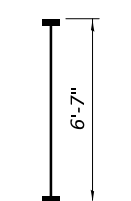


PLAN

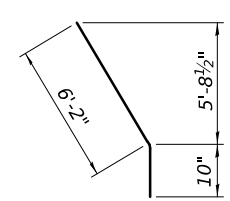


FIELD CUTTING DIAGRAM

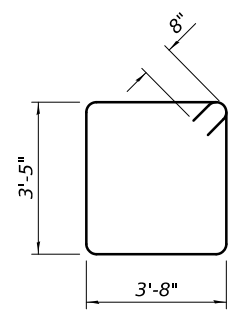
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



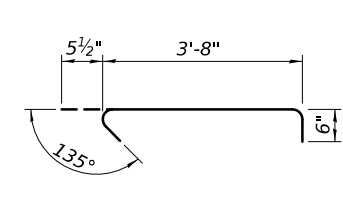
BAR v(E)
(Headed, 138 - #8 Bar Terminators)



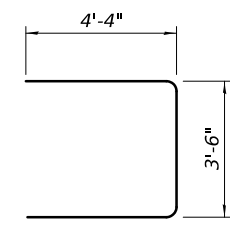
BAR h2(E)



BAR s(E)



BAR s1(E)



BAR u(E)

PILE DATA
Type: 12" Ø Metal Shell w/ 0.25" walls
Nominal Required Bearing: 392 kips
Factored Resistance Available: 215 kips
Est. Length: 72 ft.
No. Production Piles: 8
No. Test Piles: 1

| BILL OF MATERIAL | | | | |
|---|-----|------|---------|-------|
| Bar | No. | Size | Length | Shape |
| h(E) | 52 | #5 | 10'-5" | — |
| h1(E) | 6 | #5 | 17'-7" | — |
| h2(E) | 4 | #5 | 7'-0" | — |
| p(E) | 10 | #7 | 29'-8" | — |
| s(E) | 30 | #6 | 15'-6" | U |
| s1(E) | 18 | #5 | 4'-8" | U |
| u(E) | 8 | #6 | 12'-2" | U |
| v(E) | 69 | #8 | 6'-7" | — |
| v1(E) | 8 | #5 | 8'-4" | — |
| v2(E) | 12 | #5 | 14'-1" | — |
| Structure Excavation | | | Cu. Yd. | 137 |
| Concrete Structures | | | Cu. Yd. | 21.1 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 3,700 |
| Furnishing Metal Shell Piles, 12" x 0.25" | | | Foot | 576 |
| Driving Piles | | | Foot | 576 |
| Test Pile, Metal Shells | | | Each | 1 |
| Bar Terminators | | | Each | 138 |

- Notes:
1. Pour steps monolithically with cap.
 2. Bar Terminators, paid for separately.
 3. For details of piles see sheet 19 of 21.

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell\County\6881 Towline Rd over Parle Creek\CADD\12\CADD Data\Bldgs\SN_090-3254.dgn



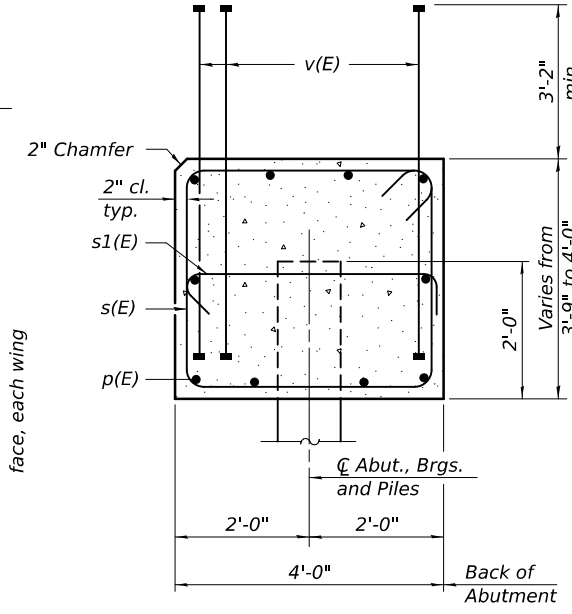
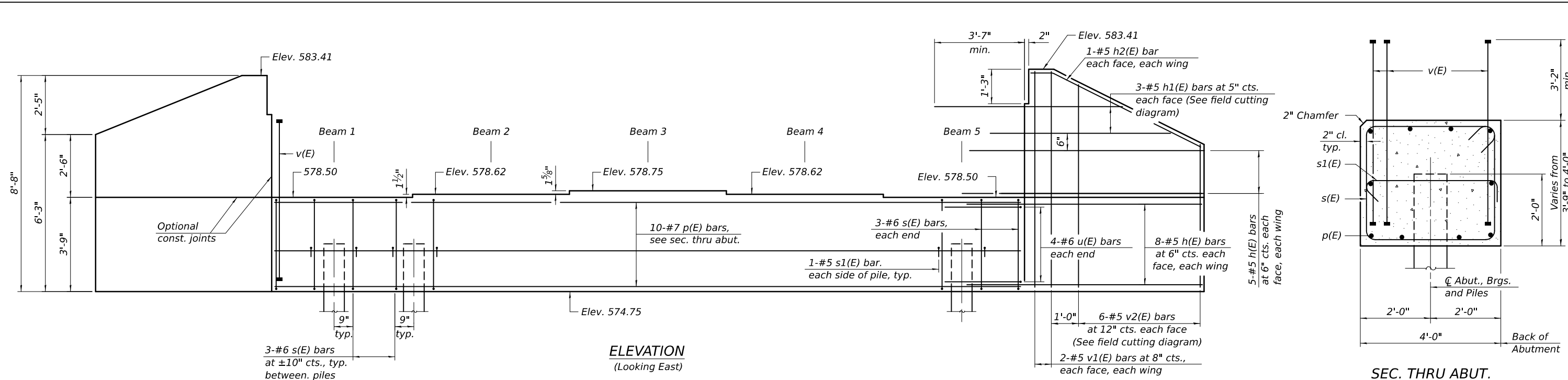
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|-----------------------------|------------------------|-------------------------|---------|
| design firm no. 18401036 | USER NAME = jmont | DESIGNED - GEM | REVISED |
| | | CHECKED - BRD | REVISED |
| | PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| | PLOT DATE = 3:25:51 PM | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 090-3254

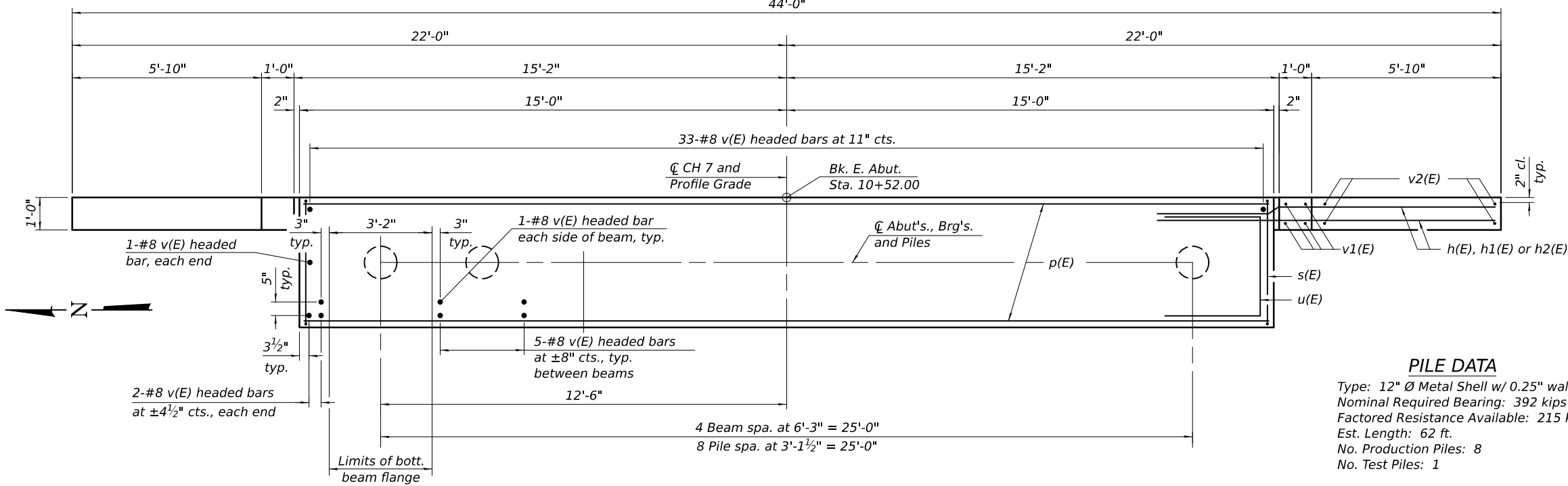
SHEET 17 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 31 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

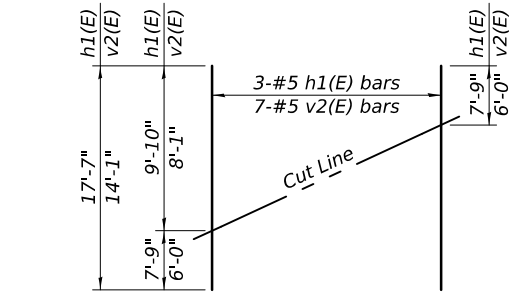


ELEVATION
(Looking East)

SEC. THRU ABUT.

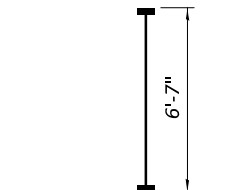


PLAN



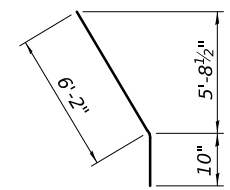
FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.

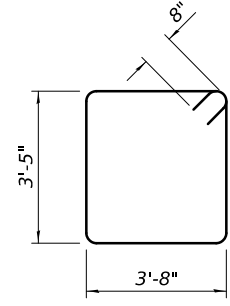


BAR v(E)

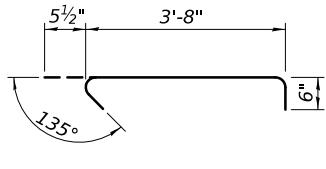
(Headed, 138 - #8 Bar Terminators)



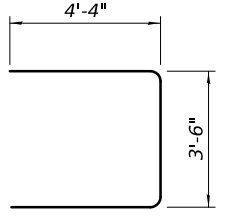
BAR h2(E)



BAR s(E)



BAR s1(E)



BAR u(E)

PILE DATA
Type: 12" Ø Metal Shell w/ 0.25" walls
Nominal Required Bearing: 392 kips
Factored Resistance Available: 215 kips
Est. Length: 62 ft.
No. Production Piles: 8
No. Test Piles: 1

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|-----|---------|--------|-------|
| h(E) | 52 | #5 | 10'-5" | — |
| h1(E) | 6 | #5 | 17'-7" | — |
| h2(E) | 4 | #5 | 7'-0" | — |
| p(E) | 10 | #7 | 29'-8" | — |
| s(E) | 30 | #6 | 15'-6" | □ |
| s1(E) | 18 | #5 | 4'-8" | ┌ |
| u(E) | 8 | #6 | 12'-2" | └ |
| v(E) | 69 | #8 | 6'-7" | — |
| v1(E) | 8 | #5 | 8'-4" | — |
| v2(E) | 12 | #5 | 14'-1" | — |
| Structure Excavation | | Cu. Yd. | 128 | |
| Concrete Structures | | Cu. Yd. | 21.1 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 3,700 | |
| Furnishing Metal Shell Piles, 12" x 0.25" | | Foot | 496 | |
| Driving Piles | | Foot | 496 | |
| Test Pile, Metal Shells | | Each | 1 | |
| Bar Terminators | | Each | 138 | |

- Notes:
1. Pour steps monolithically with cap.
 2. Bar Terminators, paid for separately.
 3. For details of piles see sheet 19 of 21.

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\6881 Towline Rd over Parle Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn



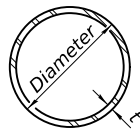
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|-----------------------------|------------------------|-------------------------|---------|
| design firm no. 18401036 | USER NAME = jmont | DESIGNED - GEM | REVISED |
| | | CHECKED - BRD | REVISED |
| | PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| | PLOT DATE = 3:25:52 PM | CHECKED - JLM, GEM, BRD | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT
STRUCTURE NO. 090-3254**

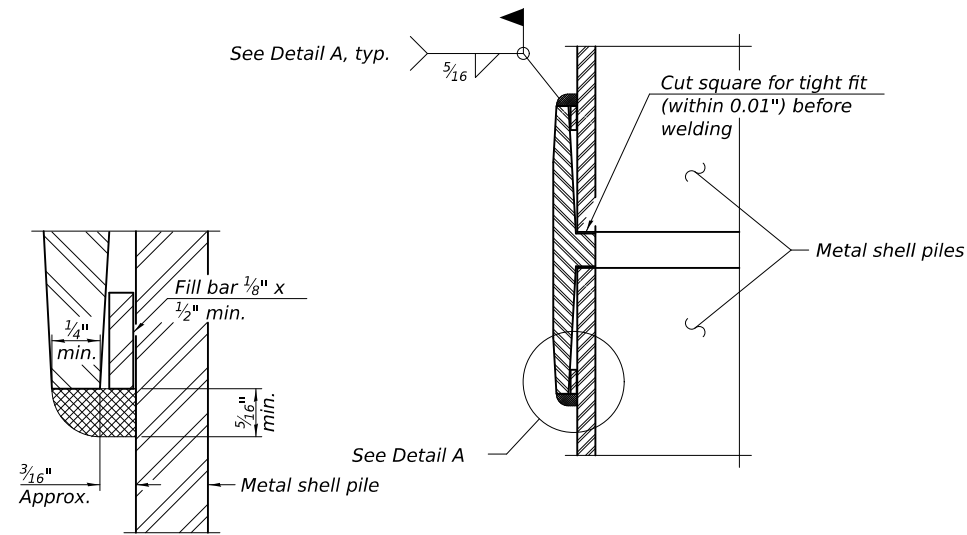
SHEET 18 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 32 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

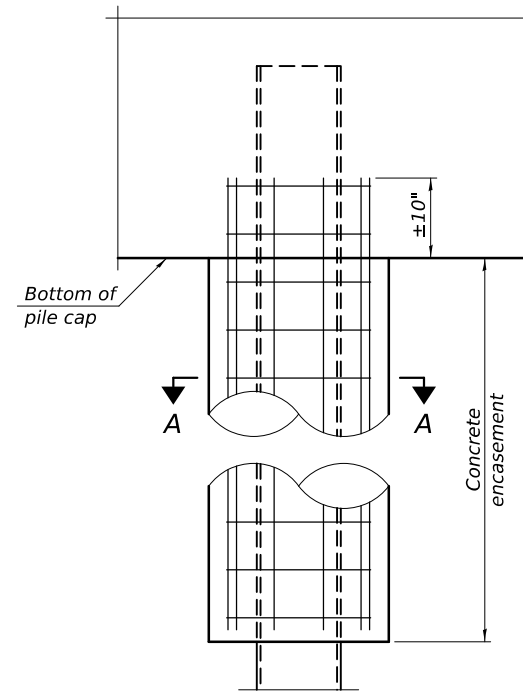


METAL SHELL PILE TABLE

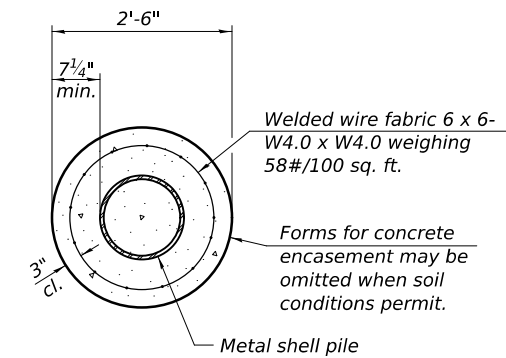
| Designation and outside diameter | Wall thickness t | Weight per foot (Lbs./ft.) | Inside volume (yd. ³ /ft.) |
|----------------------------------|------------------|----------------------------|---------------------------------------|
| PP12 | 0.250" | 31.40 | 0.0267 |
| PP14 | 0.250" | 36.75 | 0.0368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



DETAIL A

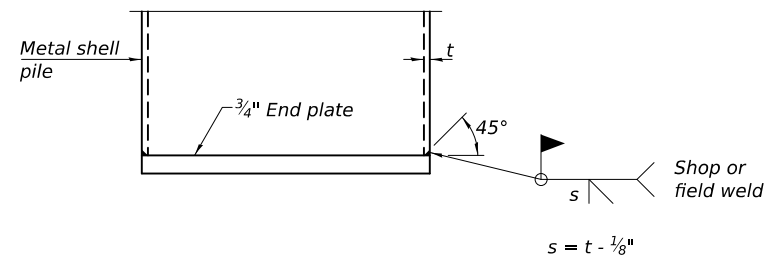


ELEVATION



SECTION A-A

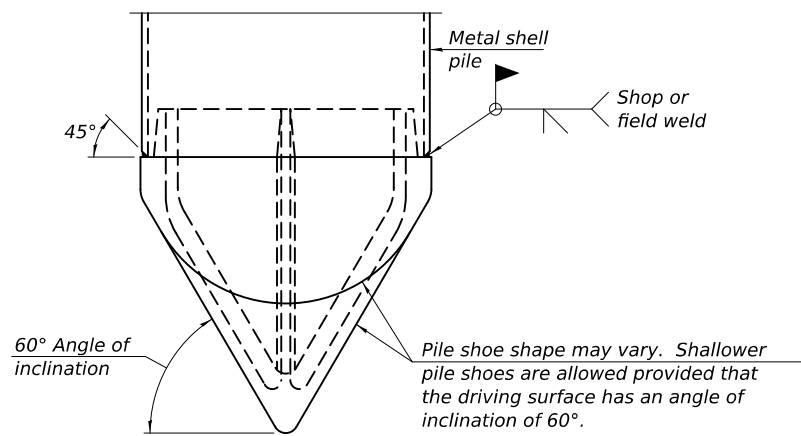
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

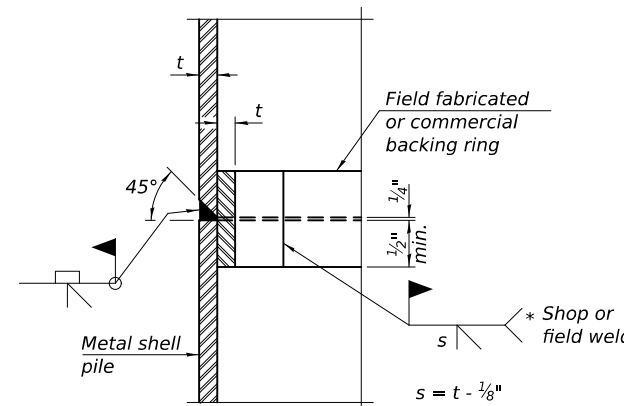
WELDED COMMERCIAL SPLICE

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.



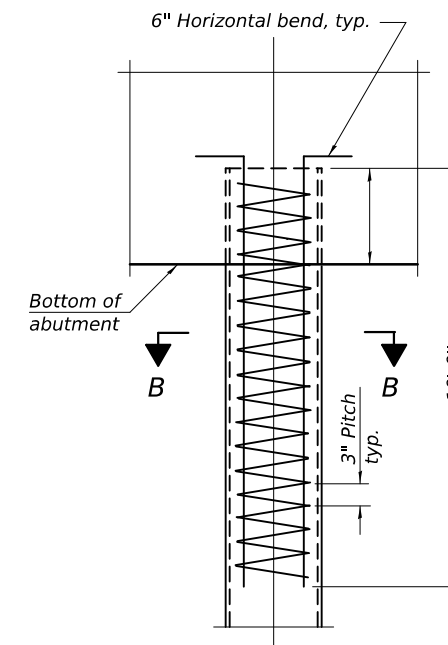
PILE SHOE ATTACHMENT

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

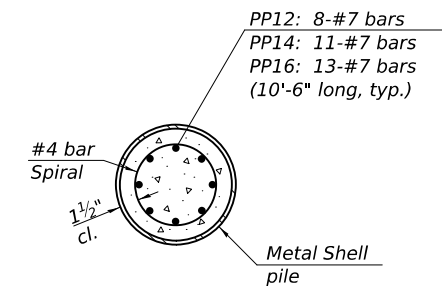


COMPLETE PENETRATION WELD SPLICE

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



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 2-1-2023

FILE NAME: C:\SP\WHKS & CO\Jobs-Sparking - Projects\Tazewell County\6881 Townline Rd over Parke Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
| PLOT DATE = 3:25:52 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS STRUCTURE NO. 090-3254

SHEET 19 OF 21 SHEETS

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 33 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Project: Proposed Bridge Replacement
Townline Road (CH7) over Prairie Creek
Section 19-00025-00-BR
Tazewell County, Illinois

Boring: B-1
Page: 1 of 2
Date of Boring: February 17 / October 18, 2023
Drilled By: Dusty Crump
Checked By: Curtis W. Eichen, EI
MET Project No: B23195

| DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) | Soil Description | DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) |
|--|------------|----------|--------|--|-------------|------------|----------|--------|
| West Abutment Ground Water Elevation: when drilling: 553.89 ft. at completion: 563.89 ft. | | | | | | | | |
| Ground Surface Elevation: 583.89 ft. | | | | | | | | |
| | | | | 6" Asphalt | | | | |
| | | | | 18" Sand and Gravel Base | | | | |
| | 8 | | | Gray clayey SILT (ML) | | 2 | 1.5B | 24 |
| | 8 | 4.5P | 12 | | | 4 | | |
| | 7 | | | | | 5 | | |
| | 3 | 2.0P | 24 | | 2 | 1.7B | 25 | |
| 5 | 2 | | | Gray silty CLAY (CL) with sand | 30 | 6 | | |
| | 3 | | | | | | | |
| | 3 | 1.8P | 18 | | | | | |
| | 2 | 4.5P | 15 | | 35 | 2 | 0.6B | 25 |
| 10 | 2 | | | Brown silty CLAY (CL) | | 4 | | |
| | 4 | 2.5B | 18 | | | | | |
| | 5 | | | | | | | |
| | 2 | 0.5P | 17 | | 40 | 2 | 3.0B | 22 |
| 15 | 3 | | | Gray silty CLAY (CL) with sand and small gravel - Till | | 5 | | |
| | 7 | 2.6B | 14 | | | | | |
| | 8 | | | | | | | |
| | 2 | 2.5B | 14 | | 45 | 3 | 1.0B | 20 |
| 20 | 5 | | | Gray silty CLAY (CL) with sand and small gravel - Till | | 6 | | |
| | 2 | 3.0B | 12 | | | | | |
| | 5 | | | | | | | |
| | 2 | 2.4B | 13 | | 50 | 2 | 1.8B | 19 |
| 25 | 5 | | | | | 5 | | |

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test

B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Project: Proposed Bridge Replacement
Townline Road (CH7) over Prairie Creek
Section 19-00025-00-BR
Tazewell County, Illinois

Boring: B-1
Page: 2 of 2
Date of Boring: February 17 / October 18, 2023
Drilled By: Dusty Crump
Checked By: Curtis W. Eichen, EI
MET Project No: B23195

| DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) | Soil Description | DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) |
|-------------|------------|----------|--------|--|-------------|------------|----------|--------|
| | | | | Gray clayey SILT (ML) | | | | |
| | 2 | 1.0B | 24 | Gray sandy CLAY (CL) | | 10 | 3.5P | 14 |
| | 3 | | | | | 11 | | |
| | 3 | | | | | 11 | | |
| | 2 | 1.8P | 16 | | | 7 | 7.5B | 11 |
| 60 | 6 | | | Gray silty CLAY (CL) with sand and small gravel - Till | | 11 | | |
| | 9 | | | | | 27 | | |
| | | | | | | | | |
| | 4 | 1.0P | 25 | | | | | |
| 65 | 4 | | | End of Boring @ 85 ft. | | | | |
| | 3 | | | | | | | |
| | | | | | | | | |
| | 4 | 1.5P | 26 | | | | | |
| 70 | 4 | | | Gray clayey SILT (ML) | | | | |
| | 4 | | | | | | | |
| | 4 | | | | | | | |
| | 4 | 1.5P | 20 | | | | | |
| 75 | 7 | | | | | | | |

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test

B-Bulge
S-Shear
P-Penetrometer

FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\681 Townline Rd over Prairie Creek\CADD\12\CADD Data\Bldgs\SN_090-3009.dgn



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| CHECKED - BRD | CHECKED - BRD | REVISED |
| PLOT DATE = 9/9/2024 | DRAWN - DLH | REVISED |
| PLOT DATE = 3:25:53 PM | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|-----------------------------------|----------------|
| BORINGS STRUCTURE NO. 090-3254 | |
| F.A.S. RTE. | SECTION |
| 1481 | 19-00025-00-BR |
| SHEET 20 OF 21 SHEETS | |

| | | |
|---------------------------|--------------|-----------|
| COUNTY | TOTAL SHEETS | SHEET NO. |
| TAZEWELL | 59 | 34 |
| CONTRACT NO. | | |
| ILLINOIS FED. AID PROJECT | | |

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Project: Proposed Bridge Replacement
Townline Road (CH7) over Prairie Creek
Section 19-00025-00-BR
Tazewell County, Illinois

Boring: B-2
Page: 1 of 2
Date of Boring: February 17, 2023
Drilled By: Dusty Crump
Checked By: Curtis W. Eichen, EI
MET Project No: B23195

| DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) | DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) |
|--|------------|----------|--------|-------------|------------|----------|--------|
| East Abutment Ground Water Elevation: when drilling: 554.39 ft. at completion: 564.39 ft. | | | | | | | |
| Ground Surface Elevation: 584.39 ft. | | | | | | | |
| 6" Asphalt | | | | | | | |
| 18" Sand and Gravel Base | | | | | | | |
| | 9 | | | | 2 | | |
| | 7 | | | | 1 | 2.3P | 26 |
| | 3 | 4.5P | 14 | | 2 | | |
| Gray clayey SILT (ML) | | | | | | | |
| | 2 | | | | 1 | | |
| | 2 | 1.3P | 21 | | 3 | 1.0P | 30 |
| | 3 | | | | 2 | | |
| Brown silty CLAY (CL) with sand | | | | | | | |
| | 7 | | | | | | |
| | 5 | 4.0P | 13 | | | | |
| | 5 | | | | | | |
| Brownish gray silty CLAY (CL) with sand | | | | | | | |
| | 3 | | | | 1 | | |
| | 7 | 3.4B | 11 | | 4 | 2.7B | 20 |
| | 9 | | | | 6 | | |
| Brown silty CLAY (CL) with sand | | | | | | | |
| | 2 | | | | | | |
| | 3 | 3.5P | 14 | | | | |
| | 4 | | | | | | |
| Dark brown and brown silty CLAY (CL) | | | | | | | |
| | 1 | | | | 1 | | |
| | 3 | 3.0P | 15 | | 2 | 3.7B | 17 |
| | 2 | | | | 4 | | |
| Brown fine to coarse SAND (SP) | | | | | | | |
| | 2 | | | | | | |
| | 1 | - | 13 | | | | |
| | 3 | | | | | | |
| Brown fine to coarse SAND and GRAVEL (SP - GP) | | | | | | | |
| | 3 | | | | 4 | | |
| | 5 | - | 7 | | 7 | 4.9S | 11 |
| | 2 | | | | 9 | | |
| Gray silty CLAY (CL) with sand and small gravel - Till | | | | | | | |
| | 3 | 2.2B | 12 | | | | |
| | 6 | | | | | | |
| | 6 | | | | | | |
| | 2 | | | | 3 | | |
| | 3 | 2.2B | 12 | | 7 | 4.7S | 10 |
| | 6 | | | | 8 | | |

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Project: Proposed Bridge Replacement
Townline Road (CH7) over Prairie Creek
Section 19-00025-00-BR
Tazewell County, Illinois

Boring: B-2
Page: 2 of 2
Date of Boring: February 17, 2023
Drilled By: Dusty Crump
Checked By: Curtis W. Eichen, EI
MET Project No: B23195

| DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) | DEPTH (ft.) | BLOWS (6") | Qu (tsf) | MC (%) |
|--|------------|----------|--------|-------------|------------|----------|--------|
| Gray silty CLAY (CL) with sand and small gravel - Till | | | | | | | |
| | 4 | | | | | | |
| | 6 | 4.7S | 10 | | | | |
| | 9 | | | | | | |
| End of Boring @ 60 ft. | | | | | | | |
| | 4 | | | | | | |
| | 7 | 4.5P | 11 | | | | |
| | 7 | | | | | | |

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC - Moisture Content - Percent of dry weight
Qu - Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test
B-Bulge
S-Shear
P-Penetrometer

FILE NAME: C:\SP\WHKS & CO\Jobs\Spring - Projects\Tazewell County\6881 Townline Rd over Prairie Creek\CADD\1012\CADD Data\Bldgs\SN_090-3009.dgn

design firm
no. 18401036



| | | |
|------------------------|-------------------------|---------|
| USER NAME = jmont | DESIGNED - JLM | REVISED |
| PLOT DATE = 9/9/2024 | CHECKED - BRD | REVISED |
| PLOT DATE = 3:25:55 PM | DRAWN - DLH | REVISED |
| | CHECKED - JLM, GEM, BRD | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 090-3254

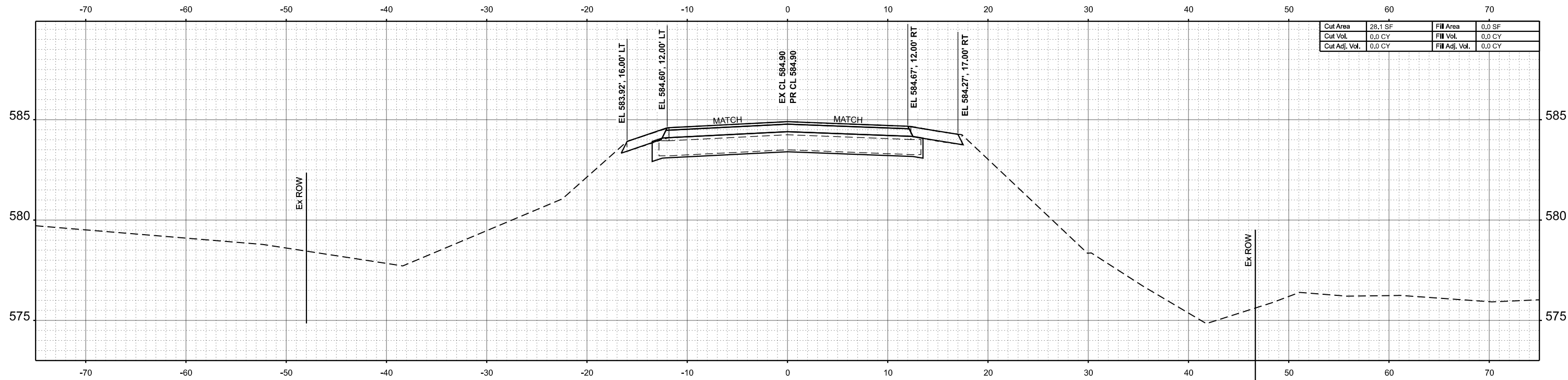
SHEET 21 OF 21 SHEETS

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 35 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| | |
|---------------|--|
| DATE | |
| BY | |
| NO. | |
| FINISH SURVEY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| AREAS CHECKED | |

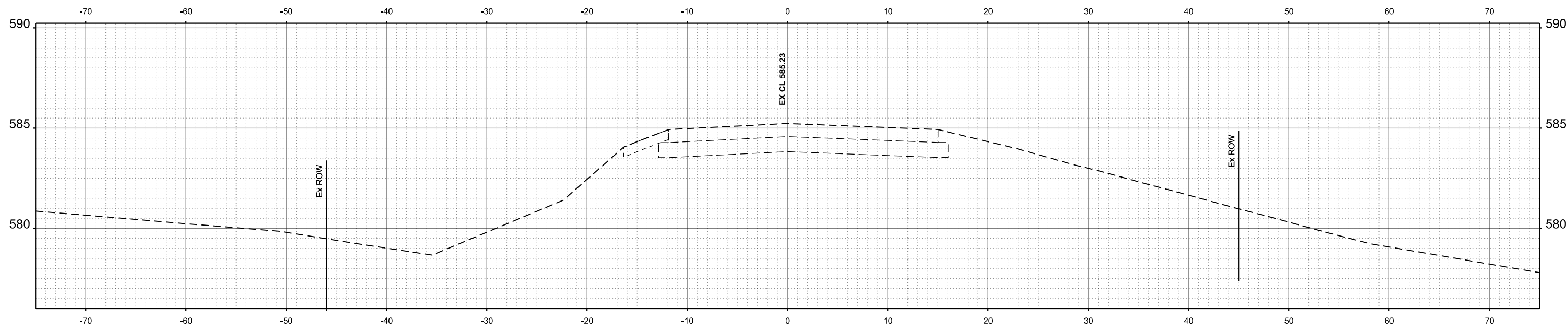
| | |
|-----------------|--|
| DATE | |
| BY | |
| NO. | |
| ORIGINAL SURVEY | |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS | |
| AREAS CHECKED | |

MODEL: CL_CHT_7+75.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9681-sh-75sht.dgn



| | | | |
|---------------|---------|----------------|--------|
| Cut Area | 28.1 SF | Fill Area | 0.0 SF |
| Cut Vol. | 0.0 CY | Fill Vol. | 0.0 CY |
| Cut Adj. Vol. | 0.0 CY | Fill Adj. Vol. | 0.0 CY |

STA 8+00.00



STA 7+75.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | gjameson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/10/2024 | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

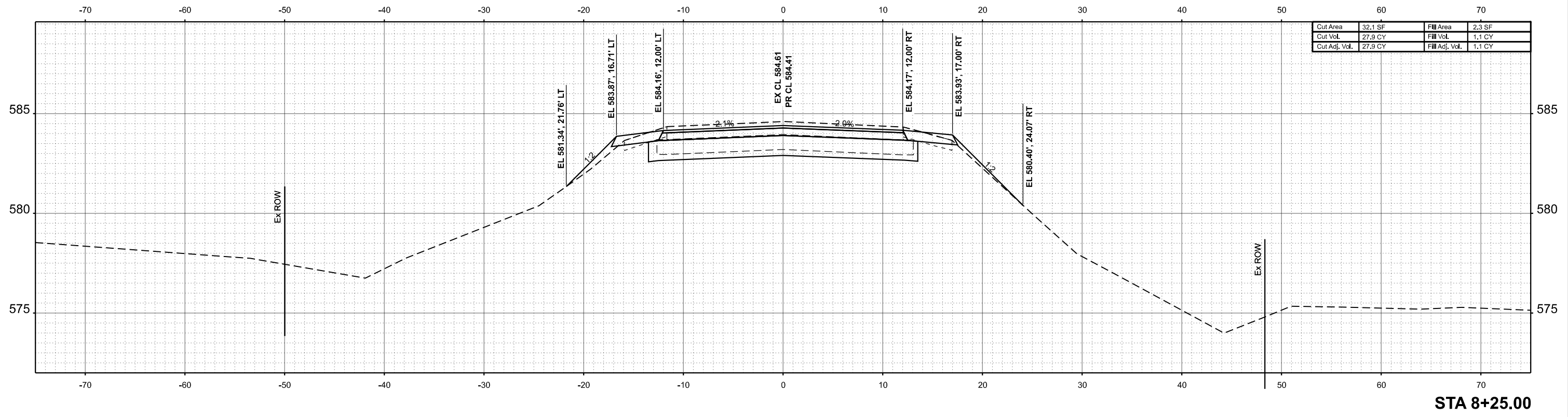
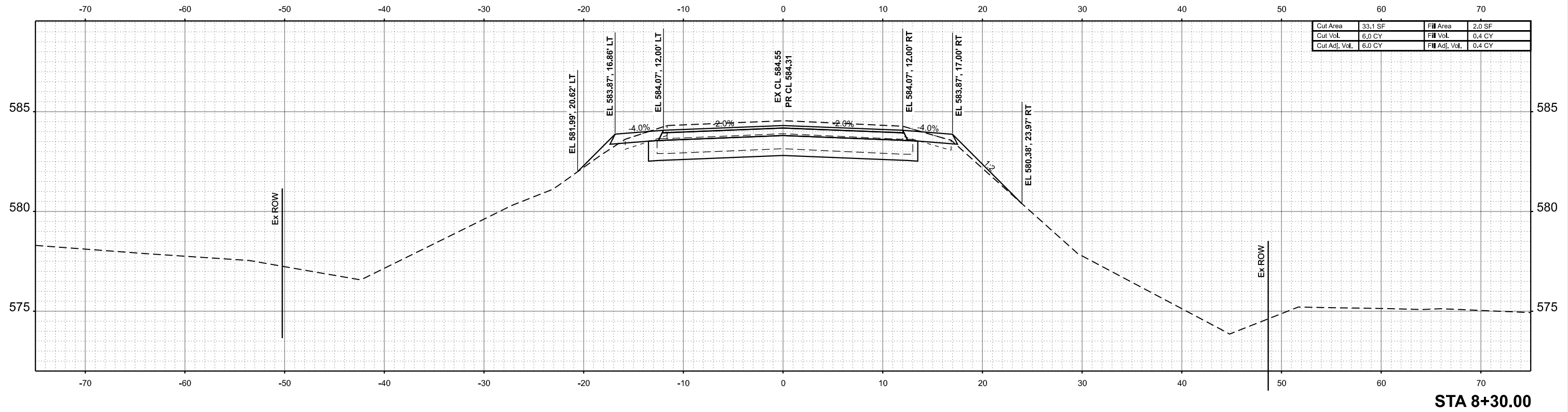
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|-------------------------|---------|--------------|------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 1 | OF 24 SHEETS | STA. 7+75.00 TO STA. 8+00.00 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 36 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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

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

MODEL: CL_CHTZ_8+25.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\8681 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\8681-sht-ssht.dgn



USER NAME = bjohnson
 DESIGNED - BJJ
 DRAWN - GSJ
 PLOT SCALE = 0.16666633' / in.
 CHECKED - CWF
 PLOT DATE = 9/6/2024
 DATE -

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

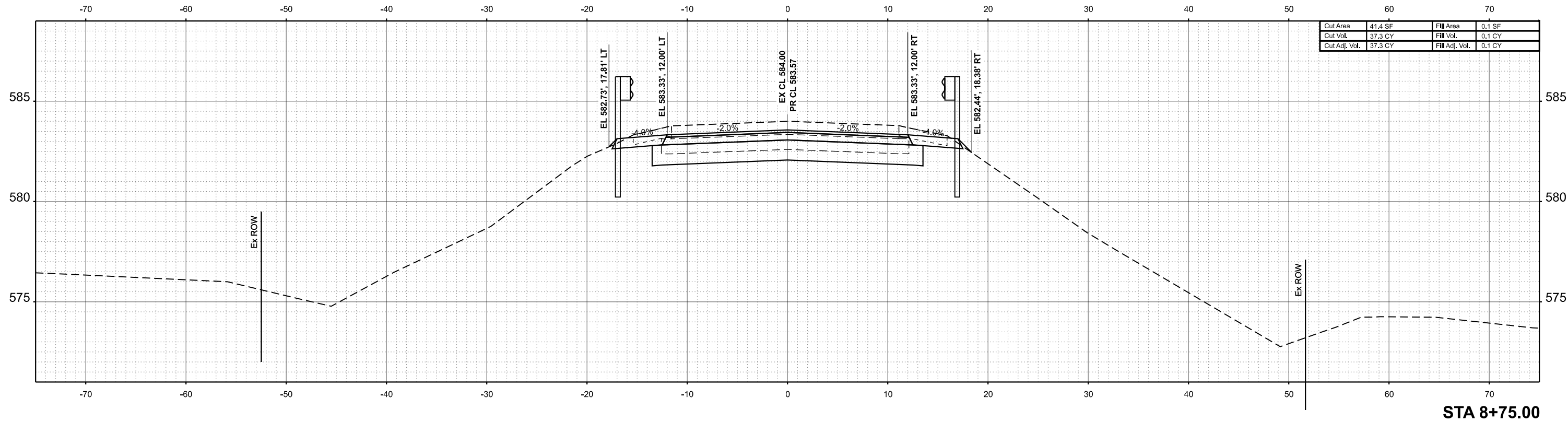
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 7 OVER PRAIRIE CREEK

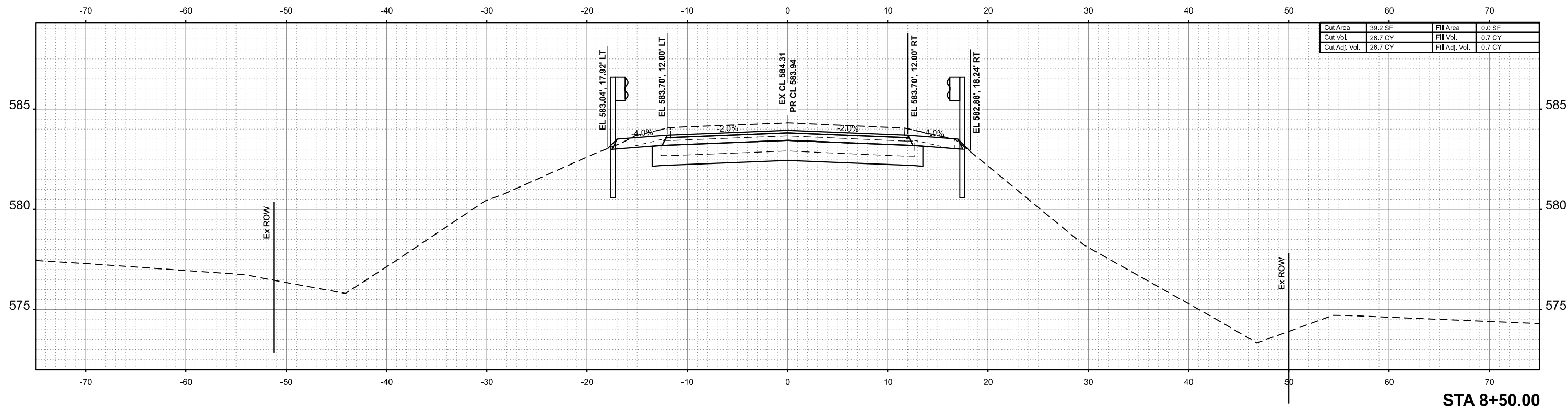
SCALE: 1"=5' SHEET 2 OF 24 SHEETS STA. 8+25.00 TO STA. 8+30.00

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 37 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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



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



MODEL: CL_CHT_8+50.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\8681 Townline Rd over Prairie Creek\CADD\10_12\CADD Data\Sheets\8681-sht-ssht.dgn



| | | | | | |
|------------|---------------------|----------|-------|---------|---|
| USER NAME | = bjohnson | DESIGNED | - BJJ | REVISED | - |
| PLOT SCALE | = 0.16666633' / in. | DRAWN | - GSJ | REVISED | - |
| PLOT DATE | = 9/6/2024 | CHECKED | - CWF | REVISED | - |
| | | DATE | - | REVISED | - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

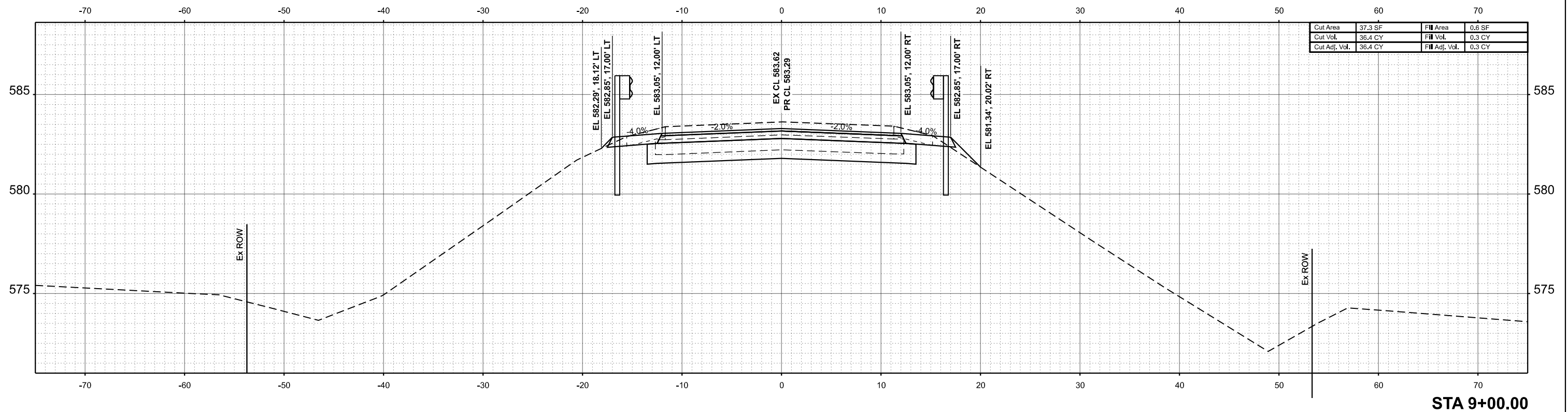
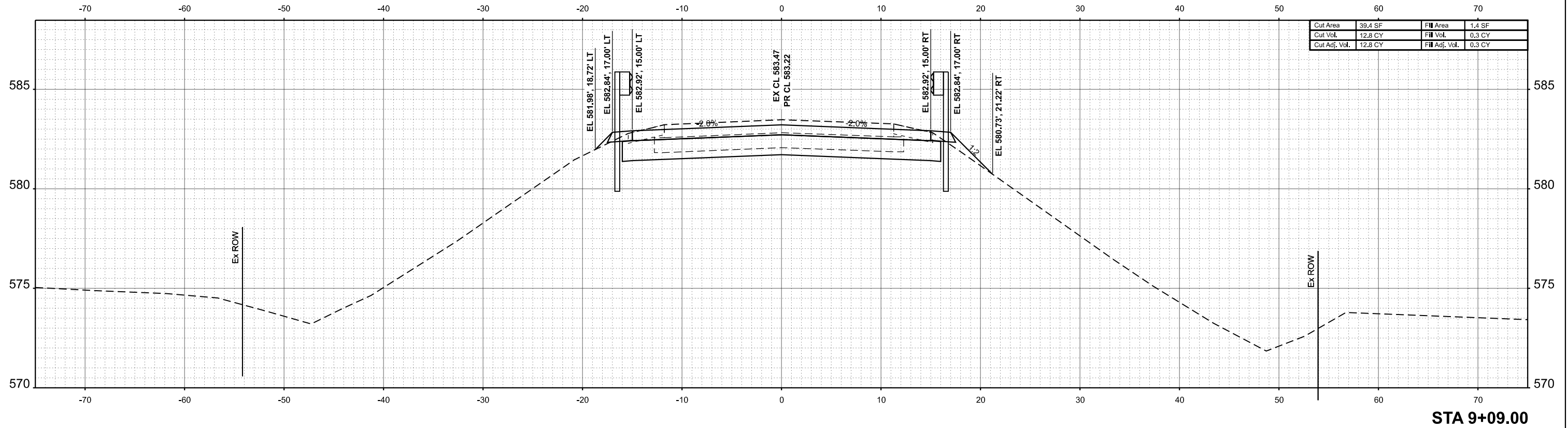
| | | | |
|--|---------|--------------|------------------------------|
| CROSS SECTIONS CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 3 | OF 24 SHEETS | STA. 8+50.00 TO STA. 8+75.00 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 38 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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

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

MODEL: CL_CHT_9+00.00 (Sheet)
 FILE NAME: C:\SP\WKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD\10_12\CADD Data\Sheets\9681-9st-ssht.dgn



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

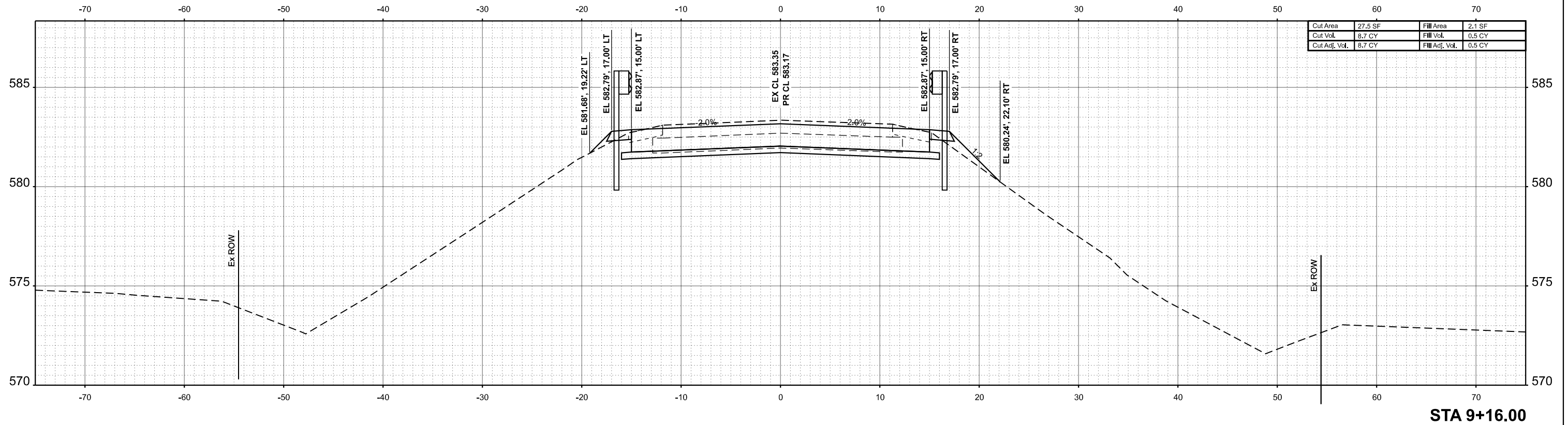
| | | | |
|-------------------------|---------|--------------|------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 4 | OF 24 SHEETS | STA. 9+00.00 TO STA. 9+09.00 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 39 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7_9+16.06 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9661 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9661-sh1-xssht.dgn



| | | | |
|---------------|---------|----------------|--------|
| Cut Area | 27.5 SF | Fill Area | 2.1 SF |
| Cut Vol. | 8.7 CY | Fill Vol. | 0.5 CY |
| Cut Adj. Vol. | 8.7 CY | Fill Adj. Vol. | 0.5 CY |



| | | |
|-------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633 1/in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/6/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

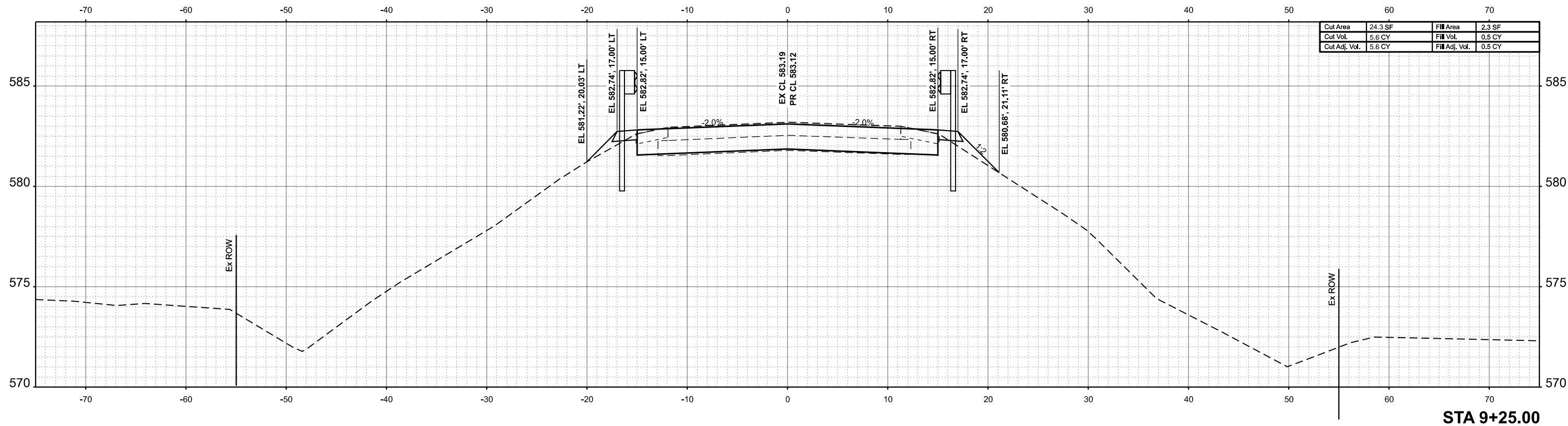
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 7 OVER PRAIRIE CREEK

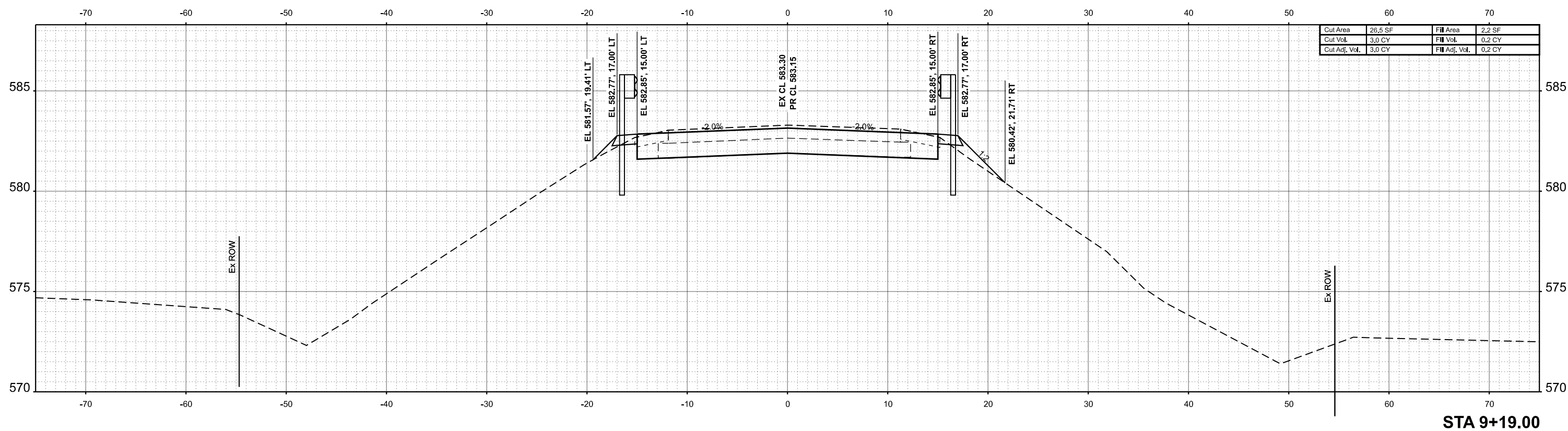
SCALE: 1"=5' SHEET 5 OF 24 SHEETS STA. 9+16.00 TO STA. 9+16.00

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 40 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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



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



MODEL: CL_CHTZ_9+19.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9661 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9661-sh19.ssh.dgn



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|------------|--------------------|----------|-------|---------|---|
| USER NAME | = gjameson | DESIGNED | - BJJ | REVISED | - |
| PLOT SCALE | = 0.16666633 1/in. | DRAWN | - GSJ | REVISED | - |
| PLOT DATE | = 9/6/2024 | CHECKED | - CWF | REVISED | - |
| | | DATE | - | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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|-------------------------|---------|--------------|------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 6 | OF 24 SHEETS | STA. 9+19.00 TO STA. 9+25.00 |

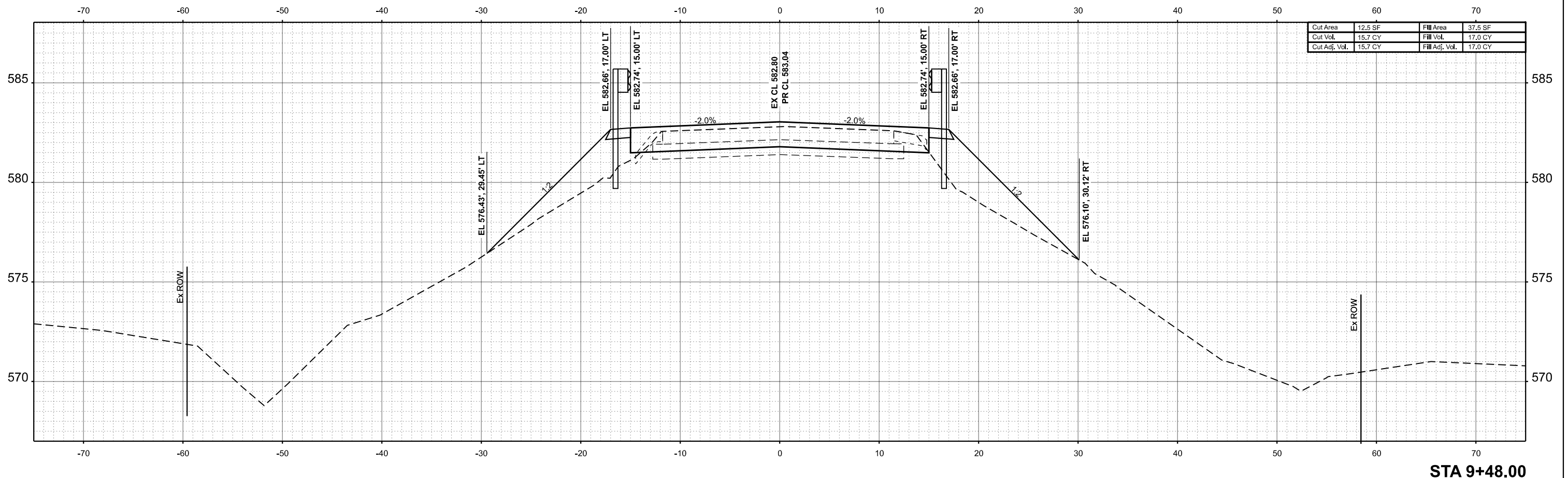
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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 41 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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MODEL: CL_CHT_9+48.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9681 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9681-sh1-xssht.dgn

**EARTHWORK BRIDGE OMISSION
 STA. 9+48.00 TO STA 10+52.00**



STA 9+48.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

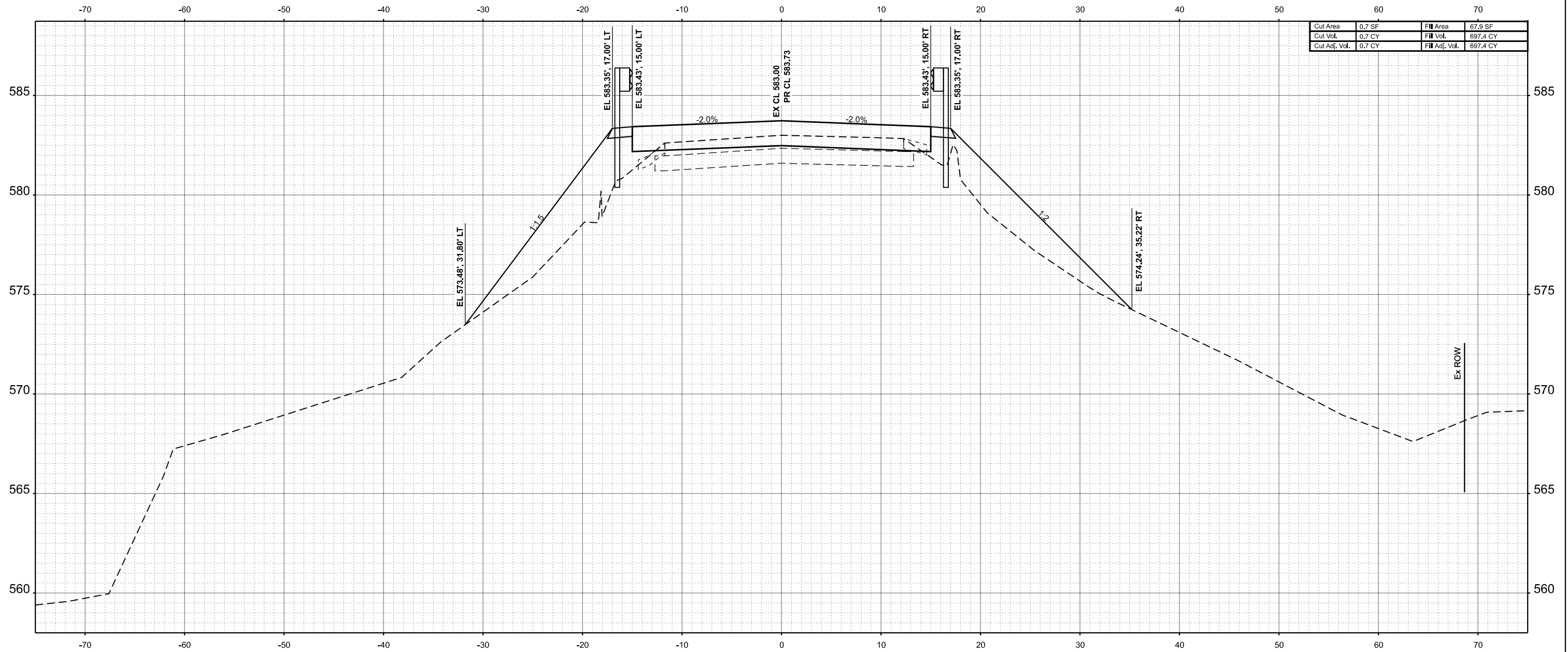
| | | | |
|--|---------|--------------|------------------------------|
| CROSS SECTIONS CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 7 | OF 24 SHEETS | STA. 9+48.00 TO STA. 9+48.00 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 42 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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MODEL: CL_CHT7_10+52.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheet9861-sh1-ssht.dgn



| | | | |
|---------------|--------|----------------|----------|
| Cut Area | 0.7 SF | Fill Area | 67.9 SF |
| Cut Vol. | 0.7 CY | Fill Vol. | 697.4 CY |
| Cut Adj. Vol. | 0.7 CY | Fill Adj. Vol. | 697.4 CY |

STA 10+52.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

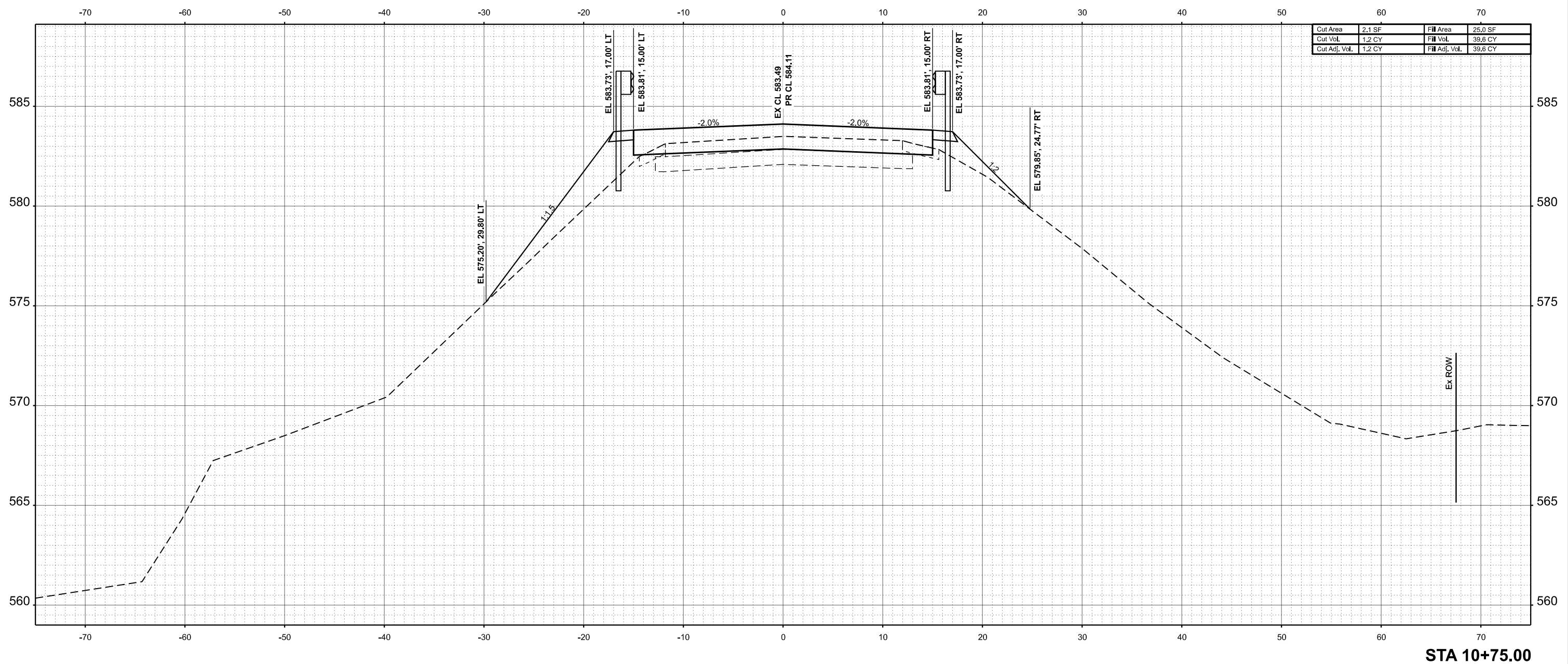
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|-------------------------|---------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 8 | OF 24 SHEETS | STA. 10+52.00 TO STA. 10+52.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 43 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7_10+75.00 [Sheet]
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh1-ssht.dgn



| | | | |
|---------------|--------|----------------|---------|
| Cut Area | 2.1 SF | Fill Area | 25.0 SF |
| Cut Vol. | 1.2 CY | Fill Vol. | 39.6 CY |
| Cut Adj. Vol. | 1.2 CY | Fill Adj. Vol. | 39.6 CY |

STA 10+75.00



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

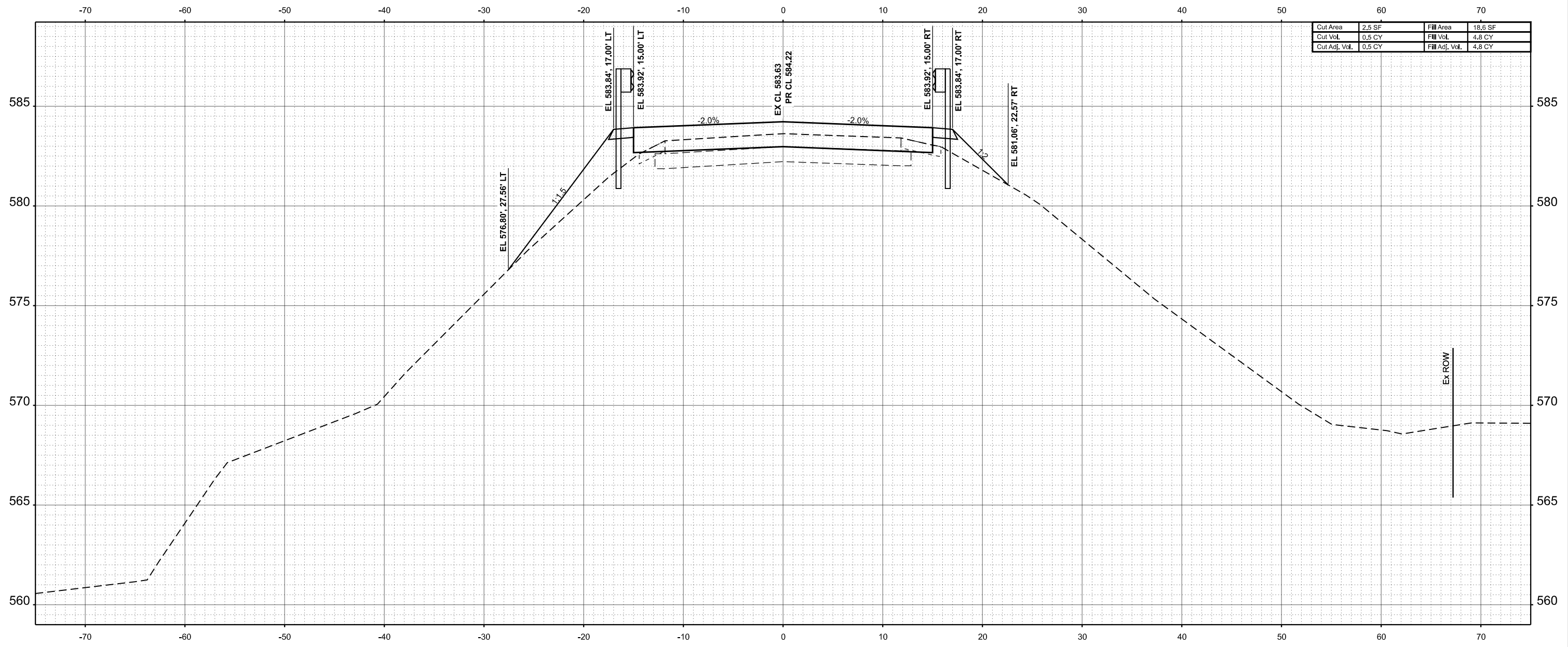
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|-------------------------|---------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 9 | OF 24 SHEETS | STA. 10+75.00 TO STA. 10+75.00 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 44 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7_10+81.00 [Sheet]
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10_12\CADD Data\Sheets\9861-sh1-ssht.dgn



STA 10+81.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

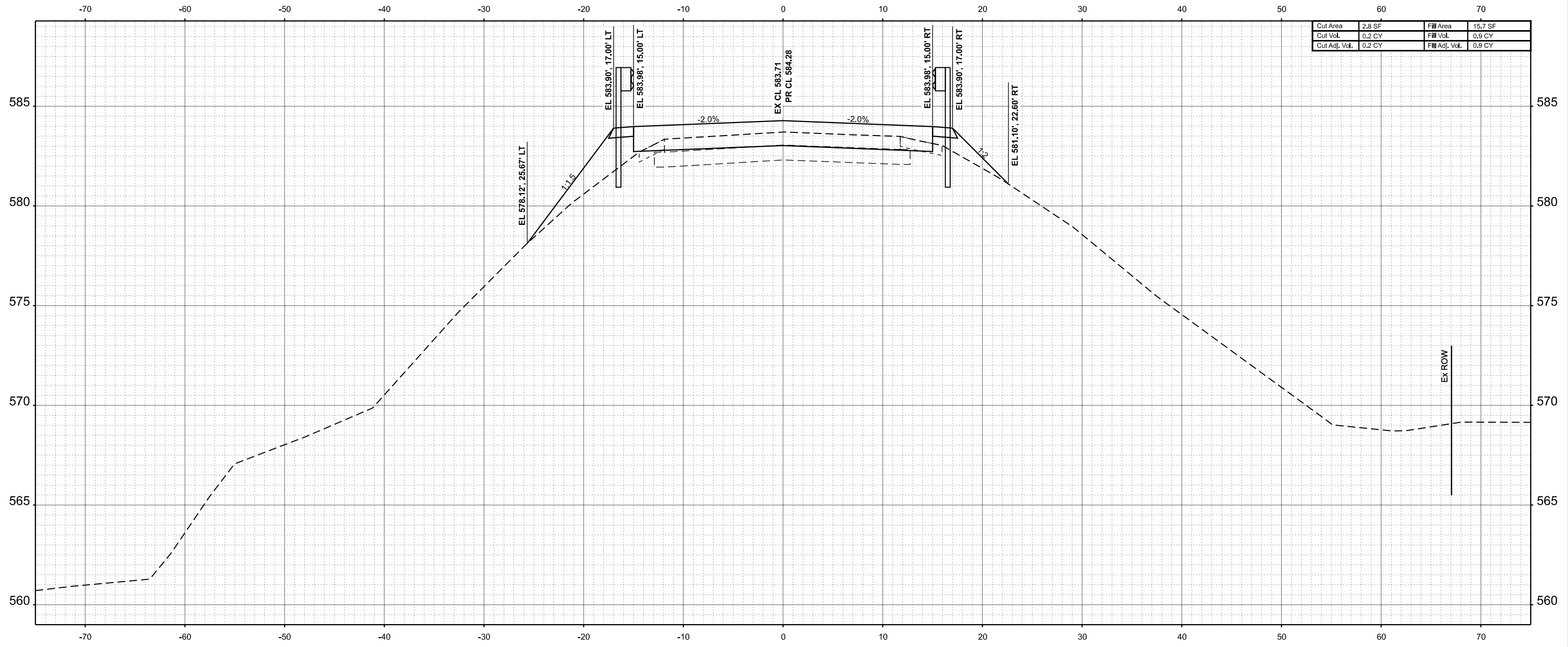
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|-------------------------|----------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 10 | OF 24 SHEETS | STA. 10+81.00 TO STA. 10+81.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 45 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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|------------------|---|----|------|
| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7-10+84.04 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheet9861-sh-hsht.dgn



| | | | |
|---------------|--------|----------------|---------|
| Cut Area | 2.8 SF | Fill Area | 15.7 SF |
| Cut Vol. | 0.2 CY | Fill Vol. | 0.9 CY |
| Cut Adj. Vol. | 0.2 CY | Fill Adj. Vol. | 0.9 CY |

STA 10+84.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

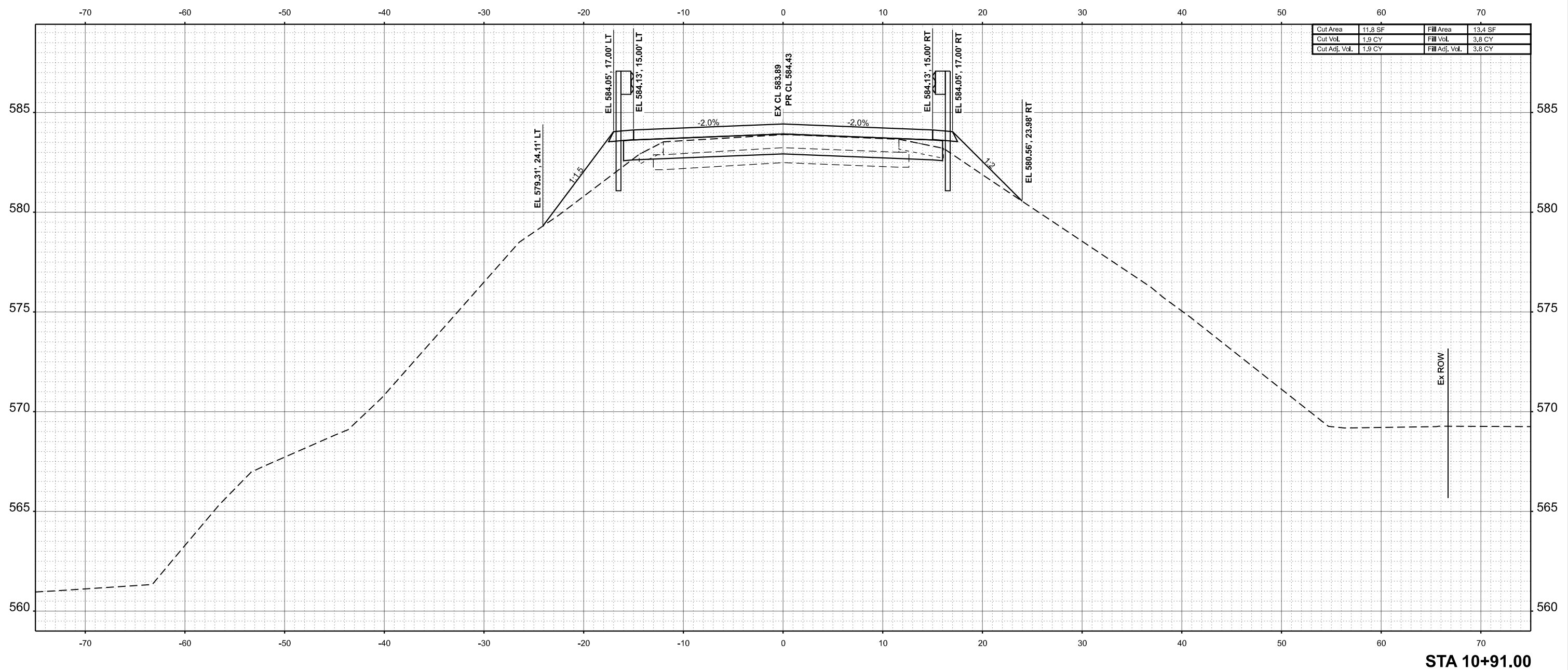
| | | | |
|-------------------------|----------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 12 | OF 24 SHEETS | STA. 10+84.04 TO STA. 10+84.04 |

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 46 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7-10+91.00 [Sheet]
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STA 10+91.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

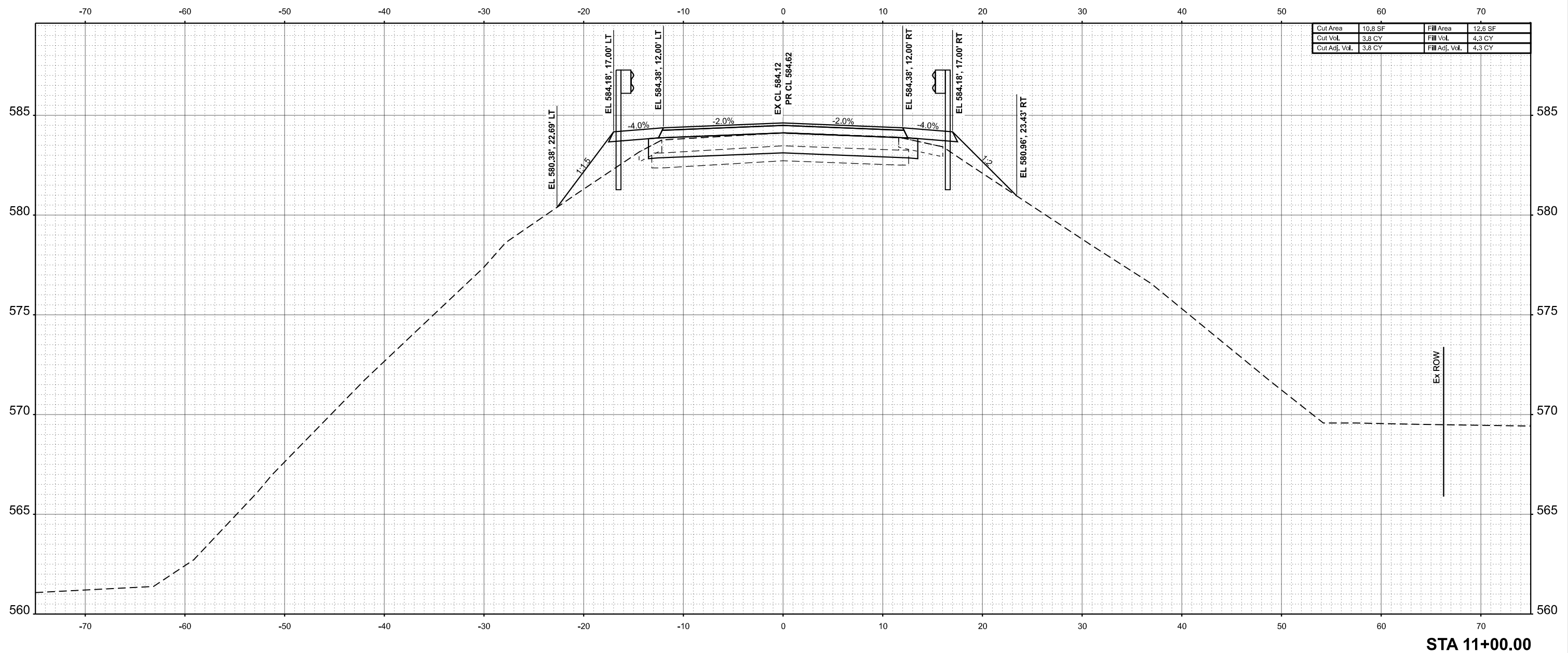
CROSS SECTIONS
CH 7 OVER PRAIRIE CREEK
SCALE: 1"=5'
SHEET 13 OF 24 SHEETS
STA. 10+91.08 TO STA. 10+91.08

| | | | | |
|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 47 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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MODEL: CL_CHTZ_11+00.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh14-ssht.dgn



STA 11+00.00



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 7 OVER PRAIRIE CREEK

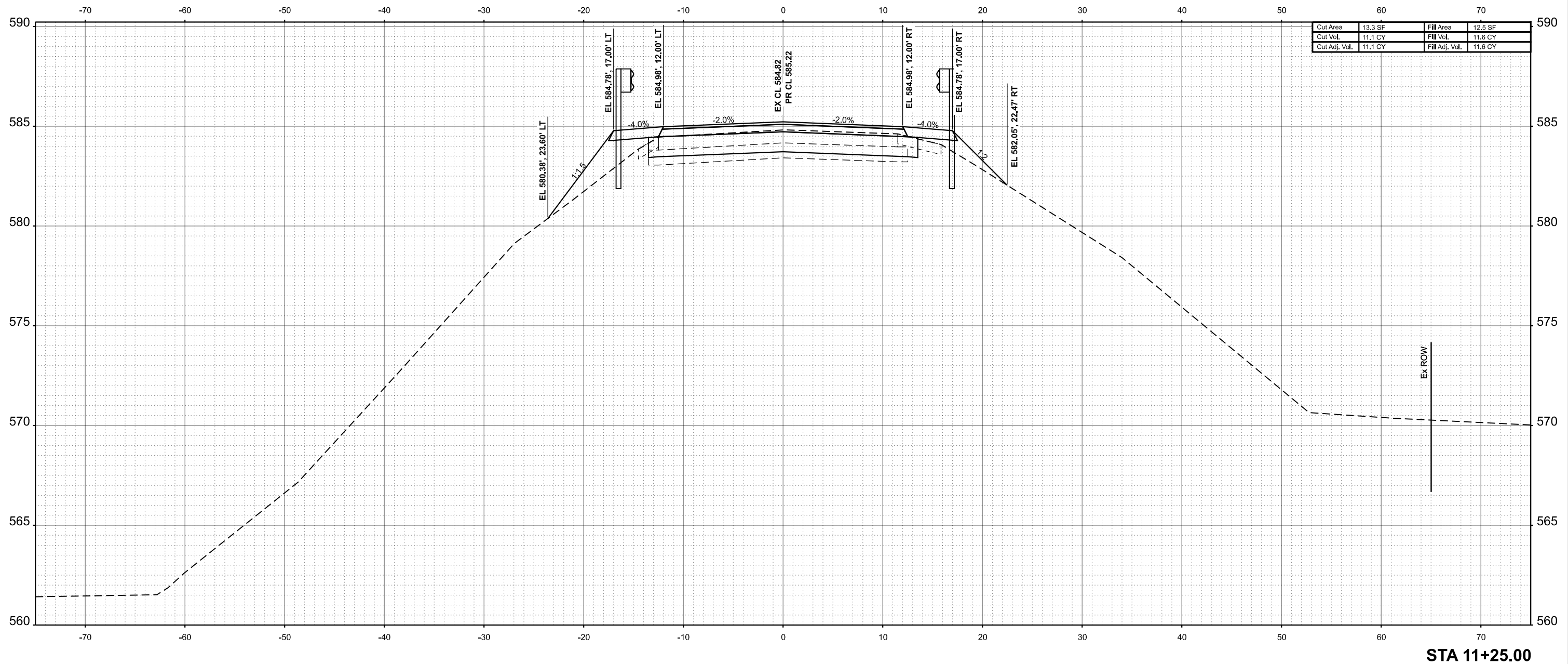
SCALE: 1"=5' SHEET 14 OF 24 SHEETS STA. 11+00.00 TO STA. 11+00.00

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 48 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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MODEL: C:\CH7_11+25.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh1-xssht.dgn



| | | | |
|---------------|---------|----------------|---------|
| Cut Area | 13.3 SF | Fill Area | 12.5 SF |
| Cut Vol. | 11.1 CY | Fill Vol. | 11.6 CY |
| Cut Adj. Vol. | 11.1 CY | Fill Adj. Vol. | 11.6 CY |

STA 11+25.00



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CH 7 OVER PRAIRIE CREEK

SCALE: 1"=5' SHEET 15 OF 24 SHEETS STA. 11+25.00 TO STA. 11+25.00

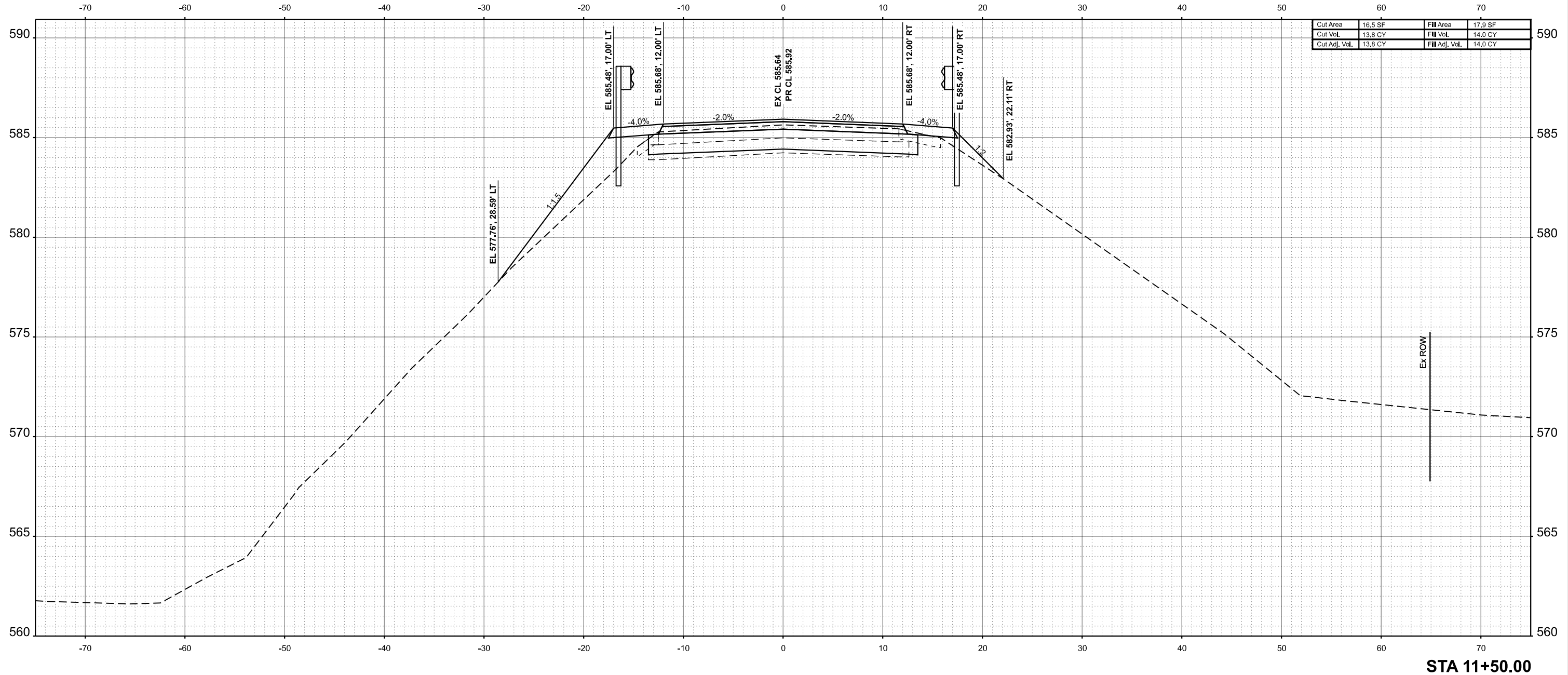
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|--------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 49 |
| CONTRACT NO. | | | | |

ILLINOIS FED. AID PROJECT

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| FINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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MODEL: CL_CHTZ_11+50.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh1-ssht.dgn



STA 11+50.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

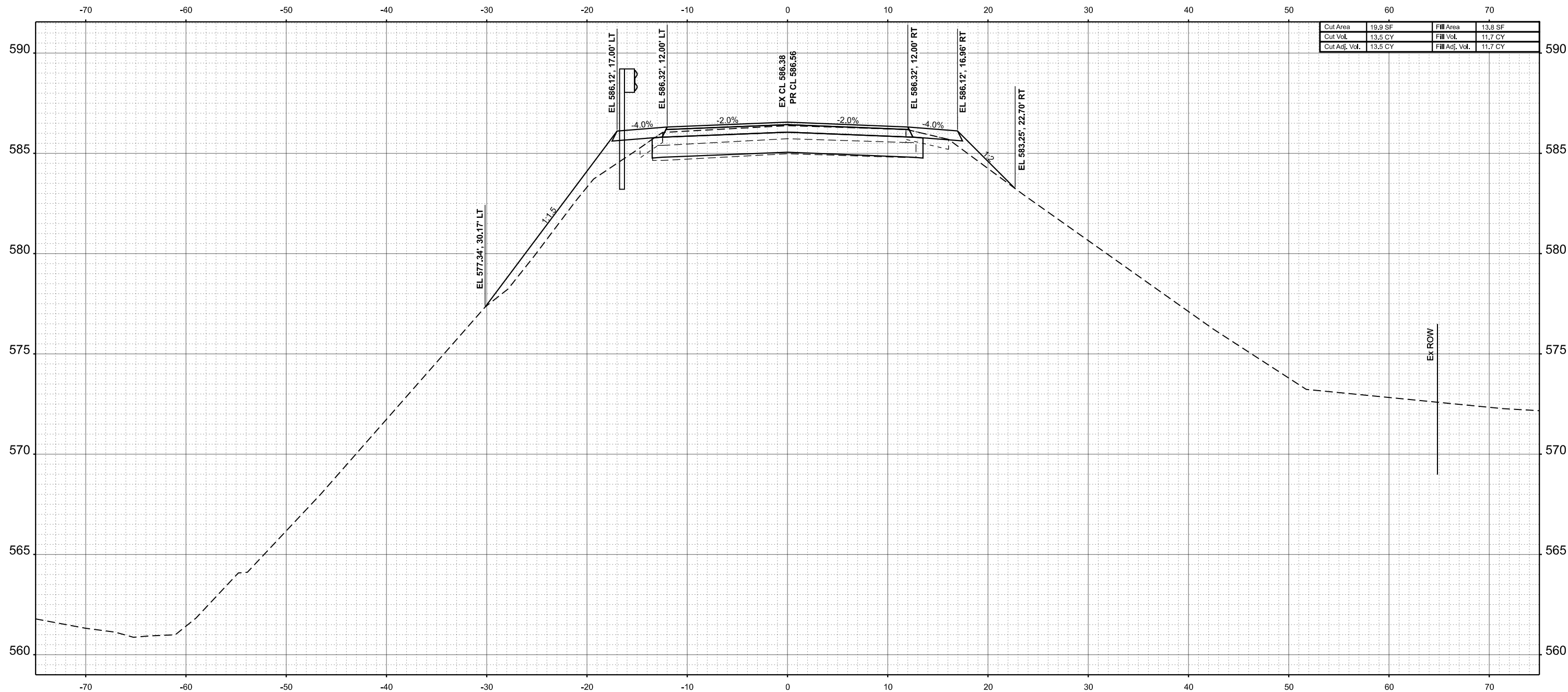
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|-------------------------|----------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 16 | OF 24 SHEETS | STA. 11+50.00 TO STA. 11+50.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 50 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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STA 11+70.00



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
CH 7 OVER PRAIRIE CREEK

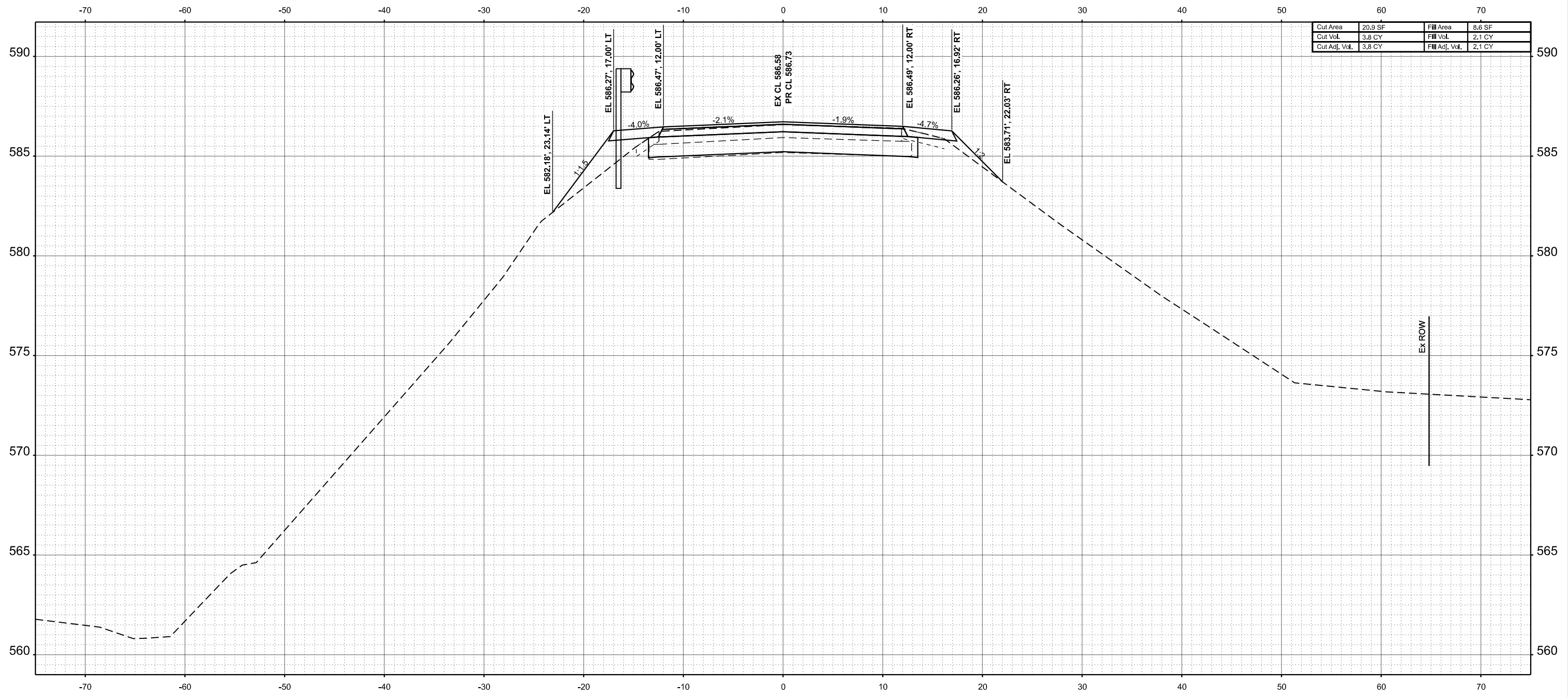
SCALE: 1"=5' SHEET 17 OF 24 SHEETS STA. 11+70.00 TO STA. 11+70.00

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 51 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7_11+75.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh1-xssht.dgn



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|---------------|---------|----------------|--------|
| Cut Area | 20.9 SF | Fill Area | 8.6 SF |
| Cut Vol. | 3.8 CY | Fill Vol. | 2.1 CY |
| Cut Adj. Vol. | 3.8 CY | Fill Adj. Vol. | 2.1 CY |

STA 11+75.00



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|------------|---------------------|
| USER NAME | = bjohnson |
| PLOT SCALE | = 0.16666633' / in. |
| PLOT DATE | = 9/6/2024 |

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|----------|-------|---------|---|
| DESIGNED | - BJJ | REVISED | - |
| DRAWN | - GSJ | REVISED | - |
| CHECKED | - CWF | REVISED | - |
| DATE | - | REVISED | - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

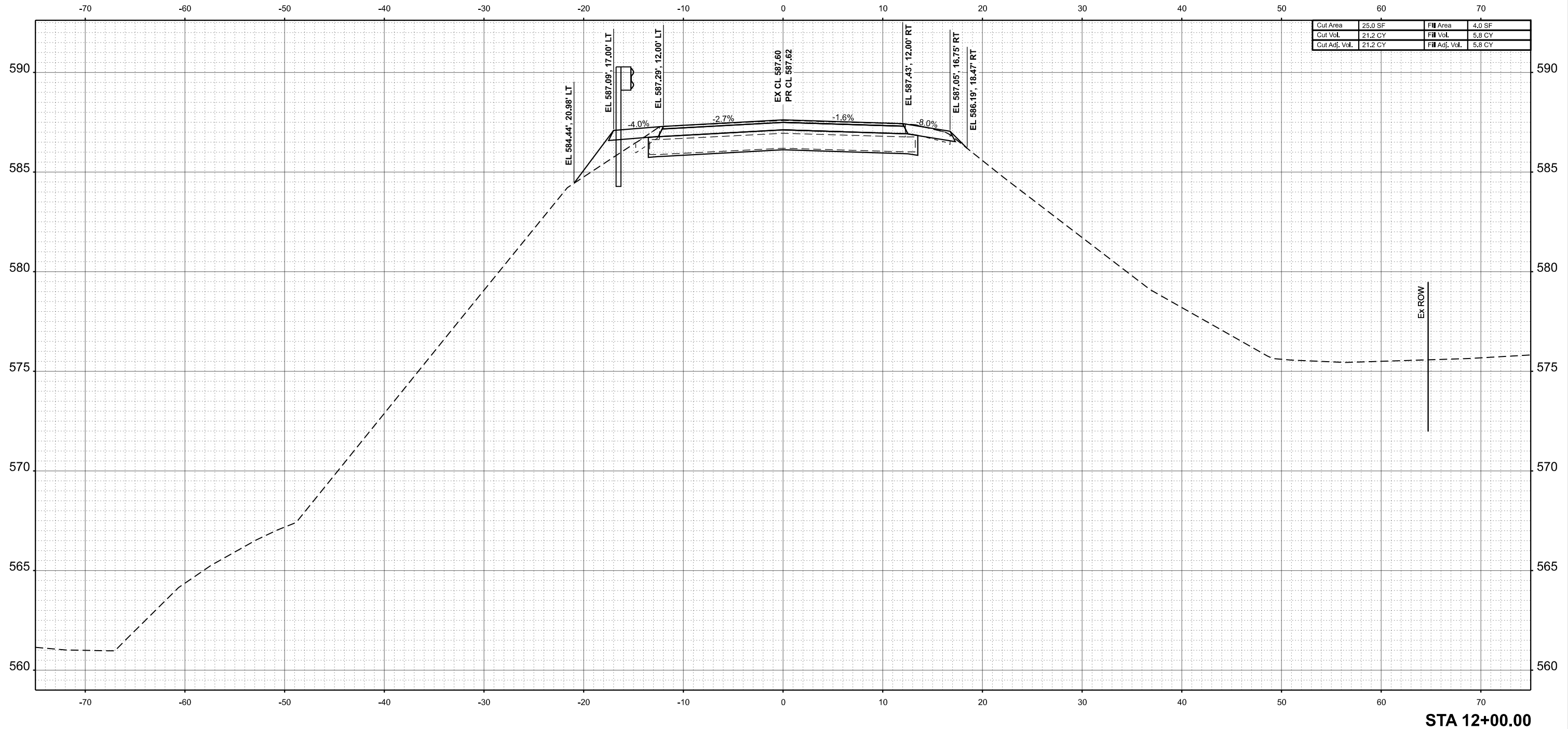
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| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 18 | OF 24 SHEETS | STA. 11+75.00 TO STA. 11+75.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 52 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheet9861-ssht.dgn



STA 12+00.00



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|--------------|--------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| PLOT SCALE = | 0.166666633' / in. | DRAWN - | GSJ | REVISED - | |
| PLOT DATE = | 9/6/2024 | CHECKED - | CWF | REVISED - | |
| | | DATE - | | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

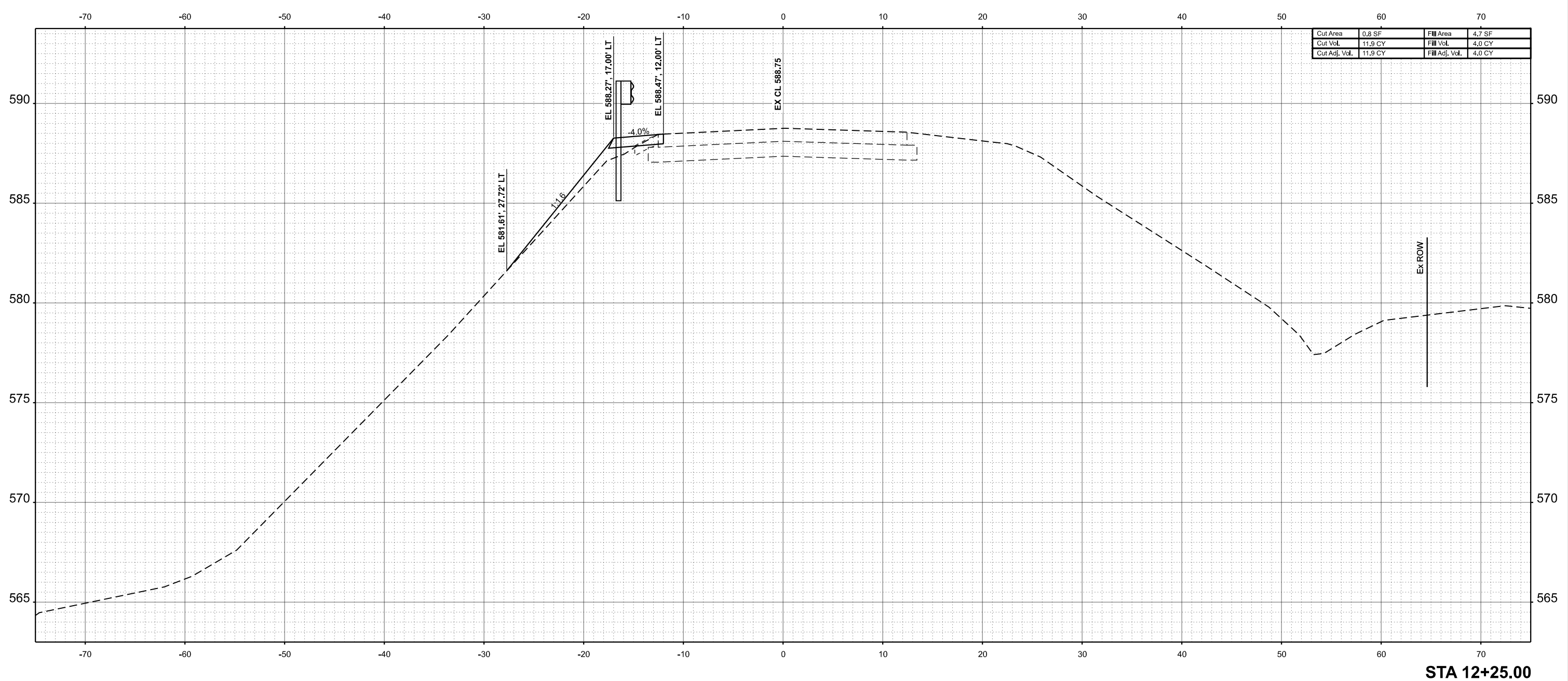
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| CROSS SECTIONS CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 19 OF 24 SHEETS | STA. 12+00.00 | TO STA. 12+00.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 53 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7_12+25.00 [Sheet]
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STA 12+25.00



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| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/10/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

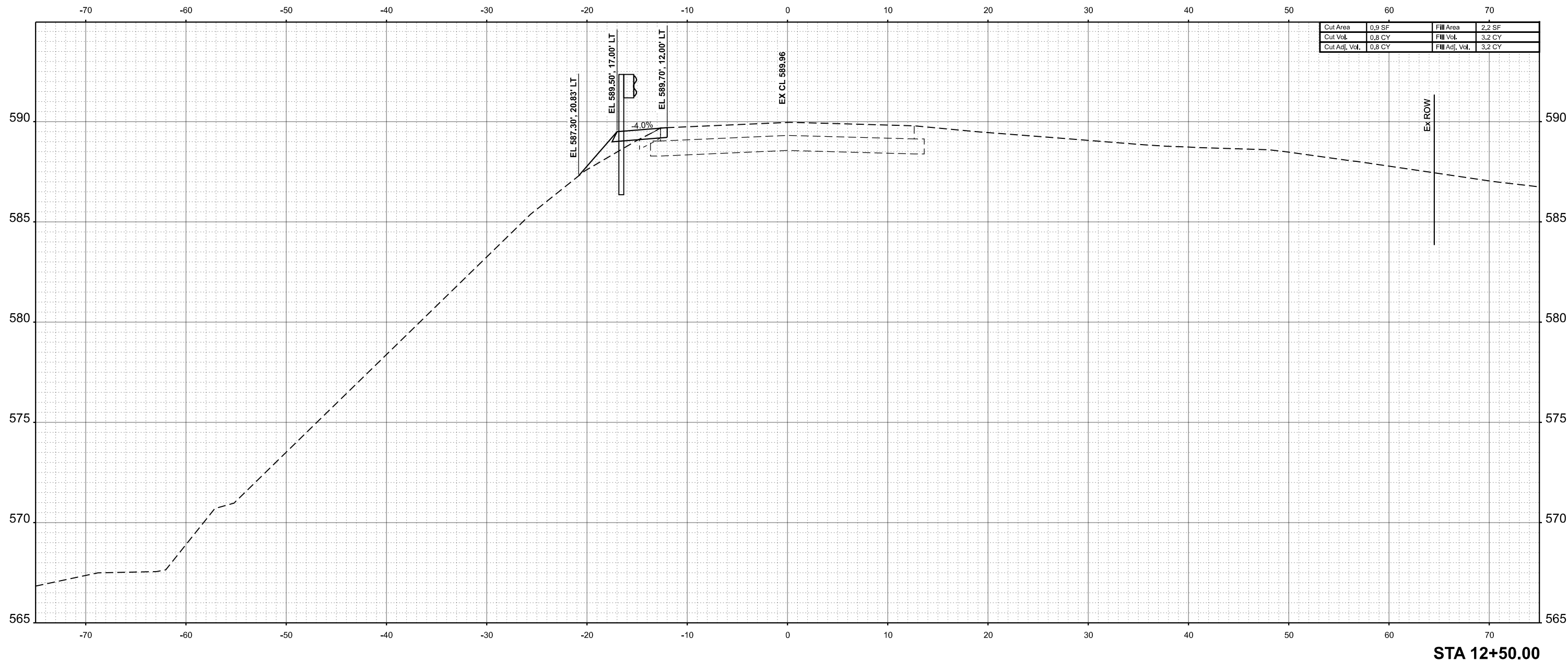
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| CROSS SECTIONS CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 20 | OF 24 SHEETS | STA. 12+25.00 TO STA. 12+25.00 |

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|---------------------------|------------------------|-----------------|-----------------|--------------|
| F.A.S. RTE. 1481 | SECTION 19-00025-00-BR | COUNTY TAZEWELL | TOTAL SHEETS 59 | SHEET NO. 54 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7-12+50.00 (Sheet)
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh-xssht.dgn



STA 12+50.00



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|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

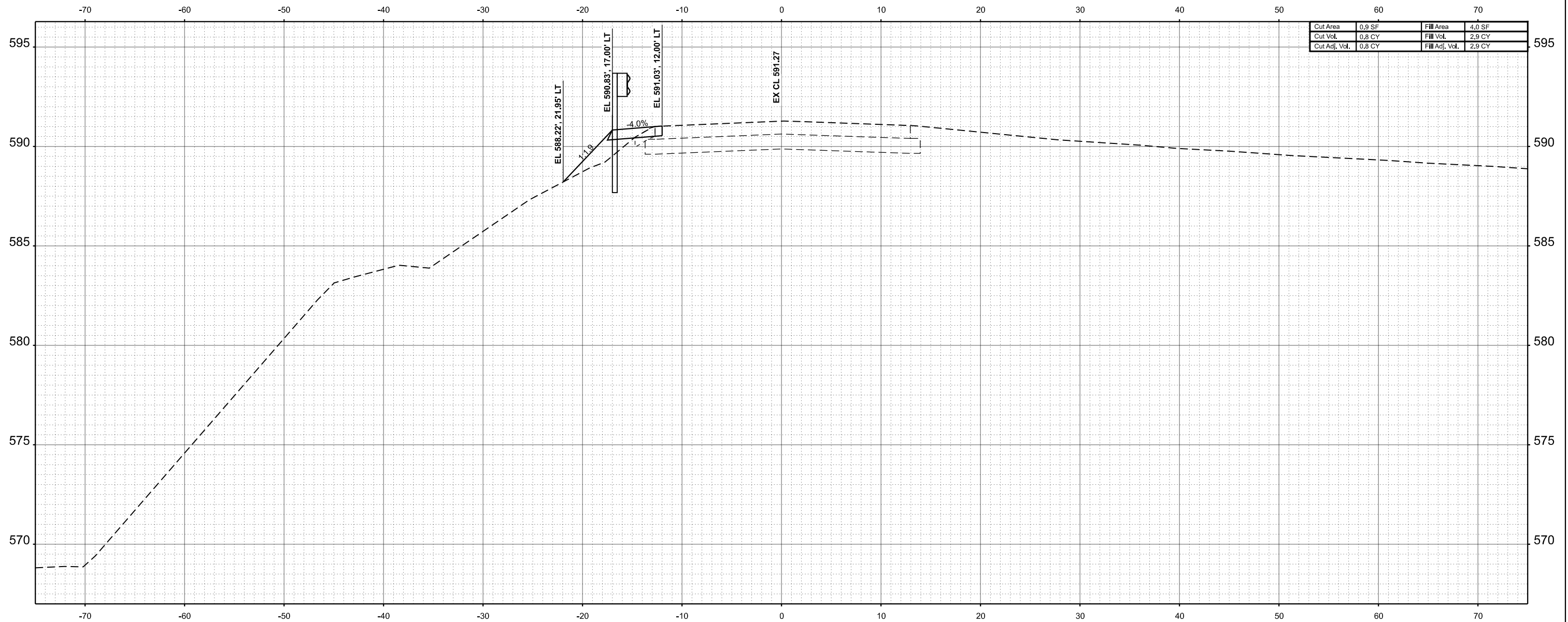
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| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 21 | OF 24 SHEETS | STA. 12+50.00 TO STA. 12+50.00 |

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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAEWELL | 59 | 55 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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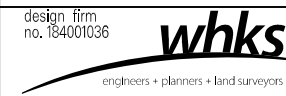
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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MODEL: C:\CH7-12+75.00 [Sheet]
 FILE NAME: C:\SP\WHKS & CO\Jobs-Spring - Projects\Tazewell County\9861 Townline Rd over Prairie Creek\CADD\10.12\CADD Data\Sheets\9861-sh1-xssht.dgn



| | | | |
|---------------|--------|----------------|--------|
| Cut Area | 0.9 SF | Fill Area | 4.0 SF |
| Cut Vol. | 0.8 CY | Fill Vol. | 2.9 CY |
| Cut Adj. Vol. | 0.8 CY | Fill Adj. Vol. | 2.9 CY |

STA 12+75.00



| | | |
|--------------------------------|----------------|-----------|
| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/10/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

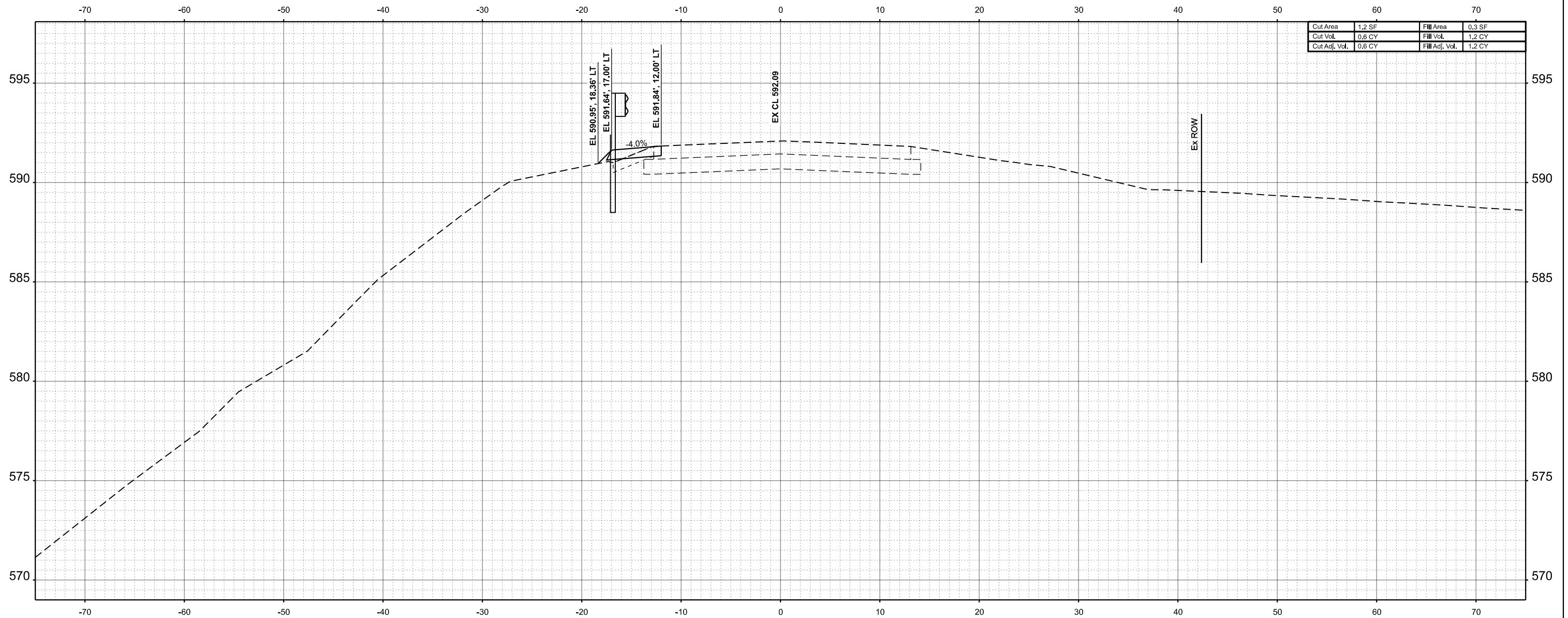
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| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 22 | OF 24 SHEETS | STA. 12+75.00 TO STA. 12+75.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 56 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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|---------------|--------|----------------|--------|
| Cut Area | 1.2 SF | Fill Area | 0.3 SF |
| Cut Vol. | 0.6 CY | Fill Vol. | 1.2 CY |
| Cut Adj. Vol. | 0.6 CY | Fill Adj. Vol. | 1.2 CY |

STA 12+90.00



| | | | | | |
|--------------|-------------------|------------|-----|-----------|--|
| USER NAME = | bjohnson | DESIGNED - | BJJ | REVISED - | |
| | | DRAWN - | GSJ | REVISED - | |
| PLOT SCALE = | 0.16666633' / in. | CHECKED - | CWF | REVISED - | |
| PLOT DATE = | 9/6/2024 | DATE - | | REVISED - | |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 7 OVER PRAIRIE CREEK

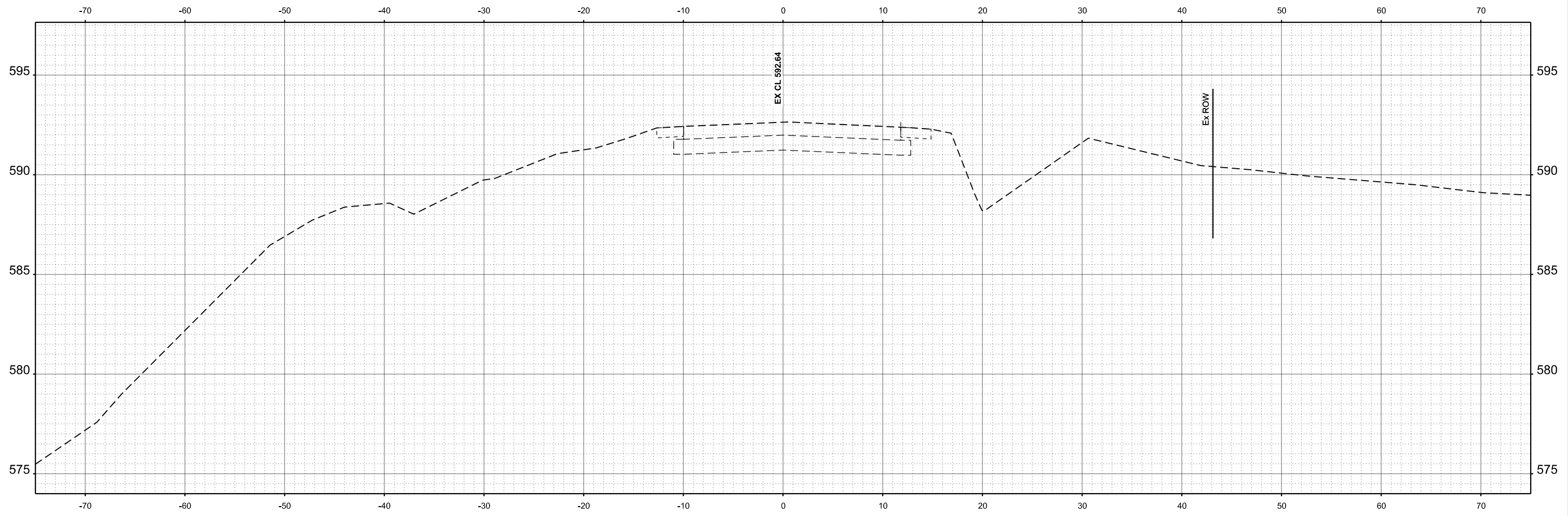
SCALE: 1"=5' SHEET 23 OF 24 SHEETS STA. 12+90.00 TO STA. 12+90.00

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 57 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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STA 13+00.00



| | | |
|--------------------------------|----------------|-----------|
| USER NAME = gjameson | DESIGNED - BJJ | REVISED - |
| | DRAWN - GSJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | CHECKED - CWF | REVISED - |
| PLOT DATE = 9/10/2024 | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

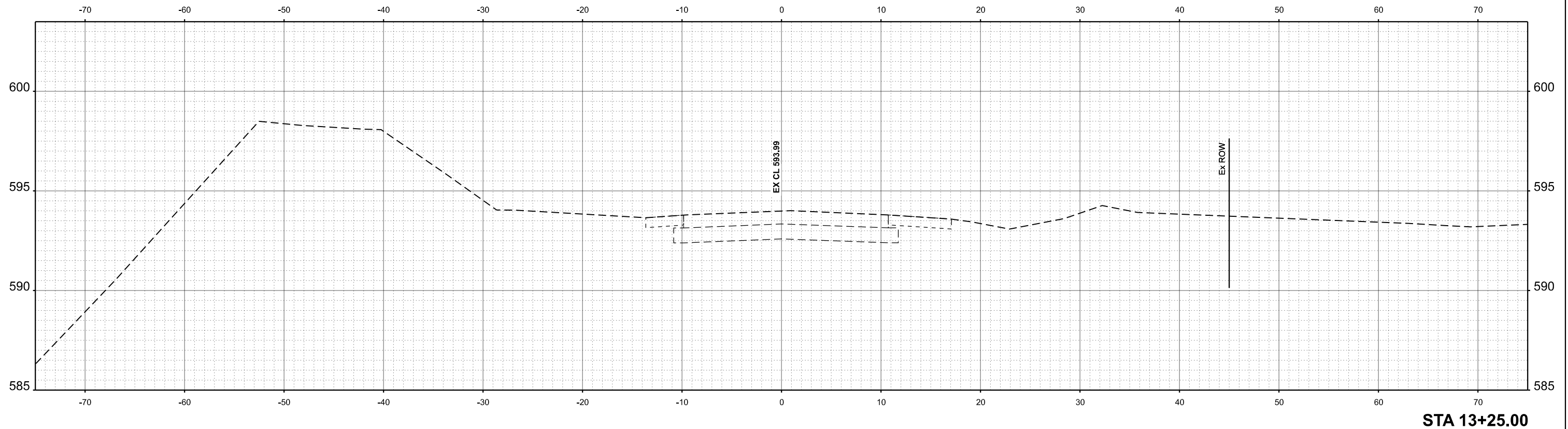
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|-------------------------|----------|--------------|--------------------------------|
| CROSS SECTIONS | | | |
| CH 7 OVER PRAIRIE CREEK | | | |
| SCALE: 1"=5' | SHEET 24 | OF 24 SHEETS | STA. 13+00.00 TO STA. 13+00.00 |

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|---------------------------|----------------|----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 58 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED AREAS | BY | DATE |
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STA 13+25.00



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|--------------------------------|----------------|-----------|
| USER NAME = bjohnson | DESIGNED - BJJ | REVISED - |
| PLOT SCALE = 0.16666633' / in. | DRAWN - GSJ | REVISED - |
| PLOT DATE = 9/6/2024 | CHECKED - CWF | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CH 7 OVER PRAIRIE CREEK

SCALE: 1"=5' SHEET 25 OF 24 SHEETS STA. 13+25.00 TO STA. 13+25.00

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|----------|--------------|-----------|
| 1481 | 19-00025-00-BR | TAZEWELL | 59 | 59 |
| CONTRACT NO. | | | | |
| ILLINOIS FED. AID PROJECT | | | | |