

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. RTE. 116 (IL. RTE. 130)
SECTION 125I
PROJECT ACF-0116 (059)
CULVERT REPLACEMENT
RICHLAND COUNTY
C-97-058-13

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 3,925 (2010)

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 1 |
| | | ILLINOIS | CONTRACT NO. 74616 | |

D-97-015-13

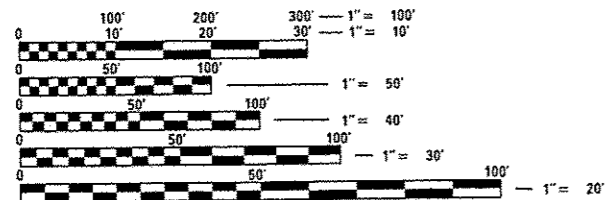


STA. 273 + 08
EXIST. S.N. 080-8626
PROP. S.N. 080-8644
12' X 6' X 64'-9 1/2"

STA. 309 + 87
EXIST. S.N. 080-8624
PROP. S.N. 080-8642
12' X 6' X 70'-8"

STA. 296 + 09
EXIST. S.N. 080-8625
PROP. S.N. 080-8643
12' X 3' X 58'-7 1/2"

STA. 329 + 20
EXIST. S.N. 080-8623
PROP. S.N. 080-2006
DBL 9' X 10' X 54'

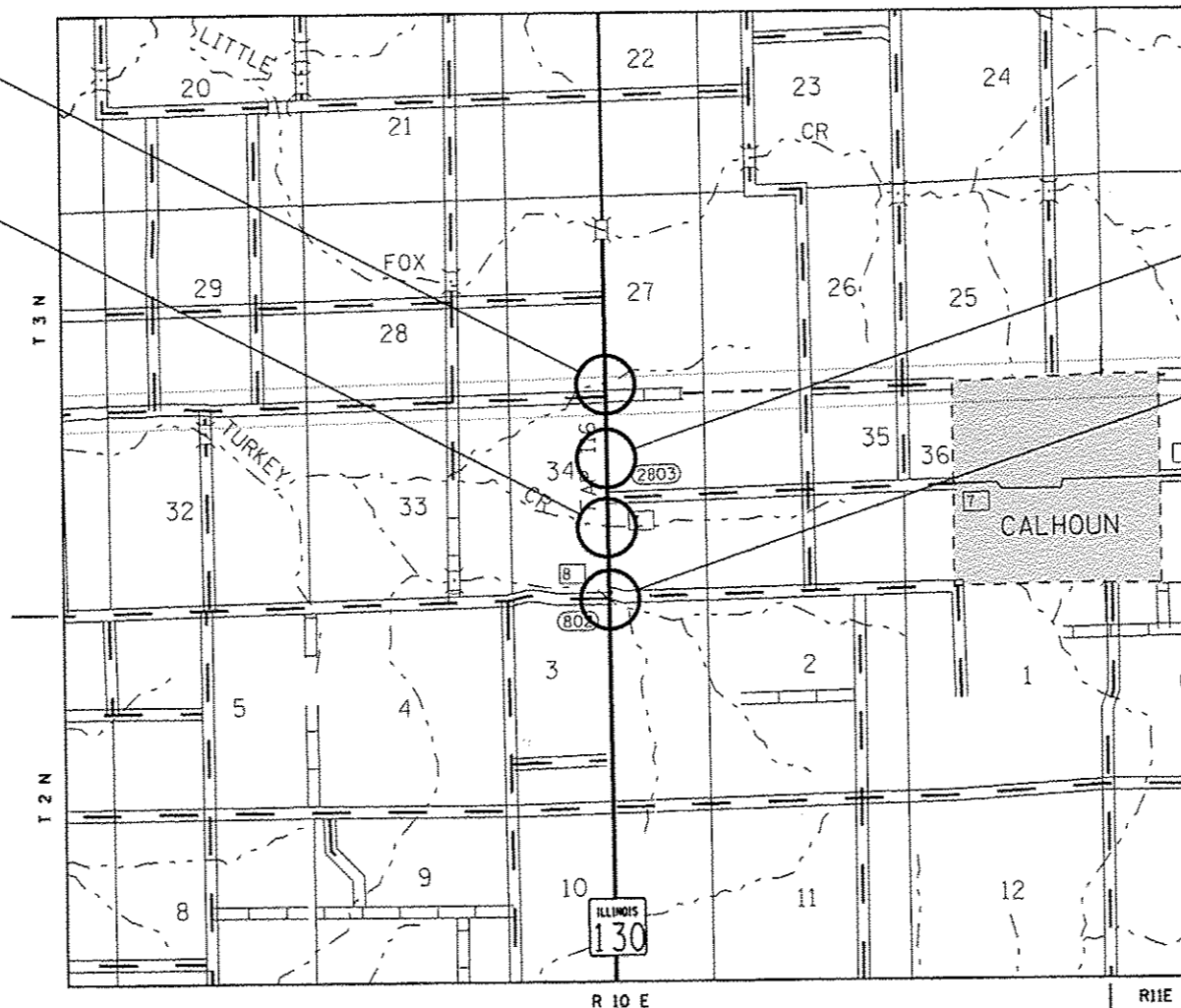


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TOM RONAN
PROJECT MANAGER: JEFF DAIVSON
PHONE: (217)-342-8314

CONTRACT NO. 74616



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 16 2014
Ryan Z. Dineen
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Mar 20 2015
John D. Baranowski, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 20 2015
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

| | |
|--------|--------------------------------|
| 1 | COVER SHEET |
| 2 | INDEX |
| 3-10 | SUMMARY OF QUANTITIES |
| 11 | TYPICAL SECTIONS |
| 12-14 | SCHEDULES |
| 15 | ALIGNMENT AND TIE SHEET |
| 16-25 | PLAN & PROFILE SHEETS |
| 26-33 | TRAFFIC CONTROL STAGING SHEETS |
| 34-36 | RIGHT-OF-WAY SHEETS |
| 37-40 | PAVEMENT MARKING DETAILS |
| 41-72 | CULVERT SHEETS |
| 73 | DISTRICT DETAILS |
| 74-198 | CROSS SECTION SHEETS |

LIST OF STANDARDS

| | |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 285001-02 | TEMPORARY EROSION CONTROL SYSTEMS |
| 406201-01 | MAILBOX TURNOUT |
| 442201-03 | CLASS C AND D PATCHES |
| 542301-03 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 542401-01 | METAL END SECTION FOR PIPE CULVERTS |
| 630001-10 | STEEL PLATE BEAM GUARDRAIL |
| 630106-01 | LONG-SPAN GUARDRAIL OVER CULVERTS |
| 630301-06 | SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS |
| 635006-03 | REFLECTOR AND TERMINAL MARKER PLACEMENT |
| 635011-02 | REFLECTOR MARKER AND MOUNTING DETAILS |
| 667101-02 | PERMANENT SURVEY MARKERS |
| 668001-01 | U.S. GEOLOGICAL SURVEY AND NATIONAL GEODETIC SURVEY BENCHMARKS RESETTING METHOD |
| 701001-02 | OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5M) AWAY |
| 701006-05 | OFF-ROAD OPERATIONS, 2L, 2W, 15'(4.5M) TO 24'(600MM) FROM PAVEMENT EDGE |
| 701011-04 | OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY |
| 701321-14 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER |
| 701326-04 | LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH |
| 701901-04 | TRAFFIC CONTROL DEVICES |
| 704001-07 | TEMPORARY CONCRETE BARRIER |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 781001-03 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |
| BLR-21-9 | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2015, AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF REMOVAL OF FOUR BOX CULVERTS, CONSTRUCTION OF A CAST-IN-PLACE DOUBLE BARREL BOX CULVERT, CONSTRUCTION OF 3 SINGLE BARREL CAST-IN-PLACE BOX CULVERTS, PAVEMENT PATCHING, EARTHWORK, GUARDRAIL, AGGREGATE SHOULDERS, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. THIS WORK SHALL BE COMPLETED UTILIZING STAGE CONSTRUCTION.

THIS PROJECT IS LOCATED AT EXISTING STRUCTURE NUMBERS 080-8626, 080-8625, 080-8624 AND 080-8623 WHICH CARRIES FAP ROUTE 116 (IL 130) OVER STREAMS AT 4, 4.5, 4.7 AND 5.1 MILES SOUTH OF US 50 IN RICHLAND COUNTY.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR ALL HOT-MIX ASPHALT LIFTS.

GENERAL NOTES (Cont'd)

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT PAY ITEMS.

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING BITUMINOUS CONCRETE SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

PERMANENT SURVEY MARKER, TYPE II SHALL BE CAST-IN-PLACE ACCORDING TO STANDARD 668001. THE PERMANENT SURVEY MARKER SHALL BE INSTALLED INSIDE THE R.O.W. AS DIRECTED BY THE ENGINEER.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (PRIME COAT), HOT-MIX ASPHALT BINDER COURSE, AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 9 TWO-WAY AMBER MARKERS.

THE TREES LISTED IN TREE SCHEDULE SHALL BE APPROVED AND HAND PLANTED AT LOCATIONS AS DIRECTED BY THE ROADSIDE MAINTENANCE TECHNICIAN, PHIL NOSBISH, (217) 342-8270. THE CONTRACTOR SHALL BE REQUIRED TO GIVE TWO WEEKS NOTICE TO SCHEDULE A TIME FOR THE LOCATIONS TO BE STAKED AND ON THE SAME DAY THE TREES SHALL BE DELIVERED TO THE JOBSITE FOR ACCEPTANCE OF THE PLANTING MATERIAL BY THE ROADSIDE MAINTENANCE TECHNICIAN.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

HMA BASE COURSE WIDENING (10 3/4")
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

HMA BASE COURSE (10 3/4")
 APPLICATION: HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-19.0
 FRICTION AGGREGATE: N/A

INCIDENTAL HOT-MIX ASPHALT SURFACING
 APPLICATION: HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N70
 PG GRADE: PG 64-22
 DESIGN AIR VOIDS: 4.0% @ NDESIGN = 70
 MIXTURE COMPOSITION: IL-9.5
 FRICTION AGGREGATE: MIXTURE C

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

| | | |
|-------------------|------|--------------|
| HOT MIX ASPHALT | 112 | LBS/SQ YD/IN |
| GRANULAR MATERIAL | 2.05 | TONS/CU YD |

| | | | | | | | | | | | |
|---------------------------------------|-------------------------|------------|-----------|---|--|----------------------------|---------|----------|--------------|-----------|--|
| FILE NAME = | USER NAME = toonejgok | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS AND GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| o:\p-work\p\idat\teeejgok\08339485\07 | 4616-htc-jmte.dgn | DRAWN - | REVISED - | | | 116 | 1251 | RICHLAND | 198 | 2 | |
| | PLOT SCALE = 1/8"=1'-0" | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | | |
| Default | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | ILLINOIS FERR. AID PROJECT | | | | | |

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | TOTAL QUANTITIES | EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 | | |
|---------------------------------------|---------------------------------------|-------|------------------|--------------------|--------------------|--------------------|--------------------|--|--|
| SUMMARY OF QUANTITIES | | | | PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 | | |
| CODE NO | ITEM | UNIT | | 0040 | 0040 | 0040 | 0040 | | |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 267 | 47 | 119 | 61 | 40 | | |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 217 | 52 | 57 | 37 | 71 | | |
| 20200100 | EARTH EXCAVATION | CU YD | 2458 | 374 | 284 | 1755 | 45 | | |
| 20300100 | CHANNEL EXCAVATION | CU YD | 302 | 54 | 57 | 47 | 144 | | |
| 20400800 | FURNISHED EXCAVATION | CU YD | 2176 | 646 | 255 | 969 | 306 | | |
| 20900110 | POROUS GRANULAR BACKFILL | CU YD | 37.8 | | | | 37.8 | | |
| * 25000200 | SEEDING, CLASS 2 | ACRE | 2.4 | 0.57 | 0.51 | 1 | 0.32 | | |
| * 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 216 | 51 | 46 | 91 | 28 | | |
| * 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 216 | 51 | 46 | 91 | 28 | | |
| * 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 216 | 51 | 46 | 91 | 28 | | |
| * 25100115 | MULCH, METHOD 2 | ACRE | 2.4 | 0.57 | 0.51 | 1 | 0.32 | | |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 240 | 57 | 51 | 100 | 32 | | |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 352 | 64 | 136 | 112 | 40 | | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 962 | 175 | 314.5 | 325 | 147.5 | | |

* SPECIALTY ITEM

| | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|------------|-----------|---|------------------------------|--|--|----------------------------------|---------|----------|--------------------|-----------|
| FILE NAME = | USER NAME = tsmalajch | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwwork\pwwork\tsmalajch\0339485\07 | 74616-ahh-soa.dgn | DRAWN - | REVISED - | | | | | 116 | 1251 | RICHLAND | 5 | 5 |
| | PLOT SCALE = 100.0000' / 1" | CHECKED - | REVISED - | | SCALE: N/A | | | SHEET 1 OF 8 SHEETS STA. TO STA. | | | CONTRACT NO. 74616 | |
| Default | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | |

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | TOTAL QUANTITIES | EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 | | |
|---------------------------------------|--|-------|------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
| SUMMARY OF QUANTITIES | | | | | PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 | | |
| CODE NO | ITEM | UNIT | | | 0040 | 0040 | 0040 | 0040 | | |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 388 | 222 | 166 | | | | | |
| 28100109 | STONE RIPRAP, CLASS A5 | SQ YD | 1098 | 117 | | 264 | 717 | | | |
| 28200200 | FILTER FABRIC | SQ YD | 1486 | 339 | 166 | 264 | 717 | | | |
| 35501327 | HOT-MIX ASPHALT BASE COURSE, 10 3/4" | SQ YD | 2119 | 545 | 539 | 605 | 430 | | | |
| 35600719 | HOT-MIX ASPHALT BASE COURSE WIDENING, 10 3/4" | SQ YD | 1676 | 466 | 488 | 506 | 216 | | | |
| 40200800 | AGGREGATE SURFACE COURSE, TYPE B | TON | 87 | 33 | 22 | 32 | | | | |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 955 | 246 | 244 | 271 | 194 | | | |
| 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING | TON | 13 | 5 | | | 8 | | | |
| 42300200 | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH | SQ YD | 21 | | 21 | | | | | |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 476 | 117 | 88 | 126 | 145 | | | |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 47 | | 47 | | | | | |
| 44201421 | CLASS C PATCHES, TYPE IV, 15 INCH | SQ YD | 476 | 117 | 88 | 126 | 145 | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 80 | 22 | 22 | 24 | 12 | | | |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 4 | 1 | 1 | 1 | 1 | | | |

13

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | TOTAL QUANTITIES | EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 | | |
|---------------------------------------|---|-------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
| SUMMARY OF QUANTITIES | | | | PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 | | |
| CODE NO | ITEM | UNIT | | 0040 | 0040 | 0040 | 0040 | | |
| 50102400 | CONCRETE REMOVAL | CU YD | 3.1 | | | 3.1 | | | |
| 50104400 | CONCRETE HEADWALL REMOVAL | EACH | 2 | | | 2 | | | |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 75 | 32.5 | 25 | 17.5 | | | |
| 50200100 | STRUCTURE EXCAVATION | CU YD | 46.1 | | | | 46.1 | | |
| 50200400 | ROCK EXCAVATION FOR STRUCTURES | CU YD | 1 | | | | 1 | | |
| 50200450 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES | CU YD | 92.4 | 43.9 | | | 48.5 | | |
| 50300225 | CONCRETE STRUCTURES | CU YD | 28.5 | | | | 28.5 | | |
| 50500505 | STUD SHEAR CONNECTORS | EACH | 116 | | | | 116 | | |
| 50800105 | REINFORCEMENT BARS | POUND | 2910 | | | 2910 | | | |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 75500 | 17490 | 13640 | 18850 | 25520 | | |
| 50800515 | BAR SPLICERS | EACH | 438 | 90 | 89 | 114 | 145 | | |
| 51500100 | NAME PLATES | EACH | 1 | | | | 1 | | |
| 54003000 | CONCRETE BOX CULVERTS | CU YD | 491 | 107 | 76.8 | 147.8 | 159.4 | | |

13

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | TOTAL QUANTITIES | EXIST. | EXIST. | EXIST. | EXIST. | | |
|---------------------------------------|--|-------|--------|---------------------|----------------------|----------------------|----------------------|----------------------|--|--|
| SUMMARY OF QUANTITIES | | | | | SN 080-8626 | SN 080-8625 | SN 080-8624 | SN 080-8623 | | |
| CODE NO | ITEM | UNIT | | | PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 | | |
| | | | | 0040 | 0040 | 0040 | 0040 | | | |
| 54213660 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | EACH | 2 | | 2 | | | | | |
| 54215559 | METAL END SECTIONS 24" | EACH | 2 | 2 | | | | | | |
| 542A0220 | PIPE CULVERTS, CLASS A, TYPE 1 15" | FOOT | 24 | | 24 | | | | | |
| 542D0229 | PIPE CULVERTS, CLASS D, TYPE 1 24" | FOOT | 32 | 32 | | | | | | |
| 59100100 | GEOCOMPOSITE WALL DRAIN | 50 YD | 32 | | | | 32 | | | |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 175 | | | | 175 | | | |
| * 63000025 | STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES | FOOT | 42 | | | | 42 | | | |
| * 63000360 | LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN | FOOT | 1012.5 | 337.5 | 337.5 | 337.5 | | | | |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 10 | 2 | 2 | 2 | 4 | | | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 1545 | | | 869 | 676 | | | |
| 66600105 | FURNISHING AND ERECTING RIGHT OF WAY MARKERS | EACH | 33 | 12 | 6 | 9 | 6 | | | |

* SPECIALTY ITEMS

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | TOTAL QUANTITIES | EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 | | |
|---------------------------------------|--|--------|--------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|
| SUMMARY OF QUANTITIES | | | | | PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 | | |
| CODE NO | ITEM | UNIT | | 0040 | 0040 | 0040 | 0040 | | | |
| 66700305 | PERMANENT SURVEY MARKERS, TYPE II | EACH | 4 | 1 | 1 | 1 | 1 | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 18 | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.25 | 0.25 | 0.25 | 0.25 | | | |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | EACH | 4 | 1 | 1 | 1 | 1 | | | |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 0.25 | 0.25 | 0.25 | 0.25 | | | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | 0.25 | 0.25 | 0.25 | 0.25 | | | |
| 70101630 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 1 | | | | 1 | | | |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 4 | 1 | 1 | 1 | 1 | | | |
| 70106700 | TEMPORARY RUMBLE STRIPS | EACH | 3 | | | | 3 | | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 8014.5 | 2038.5 | 2006 | 2068 | 1902 | | | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 2672 | 679.5 | 669 | 689.5 | 634 | | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 2442 | 739 | 570 | 811 | 322 | | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

TOTAL
QUANTITIES

| | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 |
| PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 |

| CODE NO | ITEM | UNIT | TOTAL | 0040 | 0040 | 0040 | 0040 |
|------------|---|-------|--------|--------|------|------|------|
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 1826 | 500 | 454 | 526 | 346 |
| 70600260 | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 4 | | 4 | | |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 8014.5 | 2038.5 | 2006 | 2068 | 1902 |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 45 | 13 | 13 | 12 | 7 |
| * 78200410 | GUARDRAIL MARKERS, TYPE A | EACH | 32 | 8 | 8 | 8 | 8 |
| * 78201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 16 | 4 | 4 | 4 | 4 |
| 78300100 | PAVEMENT MARKING REMOVAL | SQ FT | 2672 | 680 | 669 | 690 | 633 |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 45 | 13 | 13 | 12 | 7 |
| * A2001016 | TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED | EACH | 5 | 2 | | 2 | 1 |
| * A2001716 | TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED | EACH | 5 | 1 | | 2 | 2 |
| * A2006516 | TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED | EACH | 4 | 1 | | 1 | 2 |

* SPECIALTY ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

TOTAL
 QUANTITIES

| | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| EXIST. SN 080-8626 | EXIST. SN 080-8625 | EXIST. SN 080-8624 | EXIST. SN 080-8623 |
| PROP. SN 080-8644 | PROP. SN 080-8643 | PROP. SN 080-8642 | PROP. SN 080-2006 |

| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 0040 | 0040 | 0040 | 0040 |
|------------|--|--------|------------------|------|------|------|------|
| * A2007116 | TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED | EACH | 4 | 1 | 1 | 1 | 1 |
| * B2001167 | TREE, CERCIS CANADENSIS (EASTERN REDBUD), 8' HEIGHT, BALLED AND BURLAPPED | EACH | 6 | 1 | 1 | 2 | 2 |
| * D2002972 | EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 6' HEIGHT, BALLED AND BURLAPPED | EACH | 12 | | 12 | | |
| X0324455 | DRILLING AND SETTING SOLDIER PILES (IN SOIL) | CU FT | 816 | | | | 816 |
| X0324456 | DRILLING AND SETTING SOLDIER PILES (IN ROCK) | CU FT | 738 | | | | 738 |
| * X6310195 | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), MODIFIED | EACH | 6 | 2 | 2 | 2 | |
| * X6330725 | STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) | FOOT | 75 | | | | 75 |
| X7015005 | CHANGEABLE MESSAGE SIGN | CAL DA | 42 | 7 | 7 | 7 | 21 |
| X7040125 | PINNING TEMPORARY CONCRETE BARRIER | EACH | 252 | 48 | 108 | 48 | 48 |
| Z0005010 | HOT-MIX ASPHALT FOR PATCHING POTHoles (COLD MIX) | TON | 4 | 1 | 1 | 1 | 1 |
| Z0007118 | UNTREATED TIMBER LAGGING | SQ FT | 636 | | | | 636 |

* SPECIALTY ITEM

| | | | |
|--|------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyok | DESIGNED - | REVISED - |
| ar:\pwork\p\idoc\teasleyok\08339485\074616-shr-000.dgn | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| Default | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 7 OF 8 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------|----------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | | 9 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

TOTAL
QUANTITIES

| EXIST. SN 080-8626 PROP. SN 080-8644 | EXIST. SN 080-8625 PROP. SN 080-8643 | EXIST. SN 080-8624 PROP. SN 080-8642 | EXIST. SN 080-8623 PROP. SN 080-2006 |
|---|---|---|---|
|---|---|---|---|

| CODE NO | ITEM | UNIT | | 0040 | 0040 | 0040 | 0040 |
|------------|---------------------------------------|-------|--------|-------|-------|-------|-------|
| Z0023602 | GRANULAR CULVERT BACKFILL | CU YD | 1385.3 | 348.9 | 142.7 | 409.2 | 484.5 |
| Z0026404 | FURNISHING SOLDIER PILES (W SECTION) | FOOT | 316 | | | | 316 |
| Z0026407 | TEMPORARY SHEET PILING | SQ FT | 439 | 439 | | | |
| Z0049799 | PROTECTING OR RESETTNG SURVEY MARKERS | EACH | 4 | 1 | 1 | 1 | 1 |
| * Z0054505 | ROCK FILL - REPLACEMENT | TON | 36 | 36 | | | |
| Z0073002 | TEMPORARY SOIL RETENTION SYSTEM | SQ FT | 821.8 | | 119.2 | 305.6 | 397 |
| Z0073500 | TEMPORARY SUPPORT SYSTEM | L SUM | 1 | | | 1 | |

*

1

* SPECIALTY ITEM

| | | | |
|---|------------------------------|------------|-----------|
| FILE NAME = | USER NAME = seanlejak | DESIGNED - | REVISED - |
| c:\pr_work\p1d01\seanlejak\10339485\107 | 4616-shr-qaq.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000" / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 8 OF 8 SHEETS STA. TO STA.

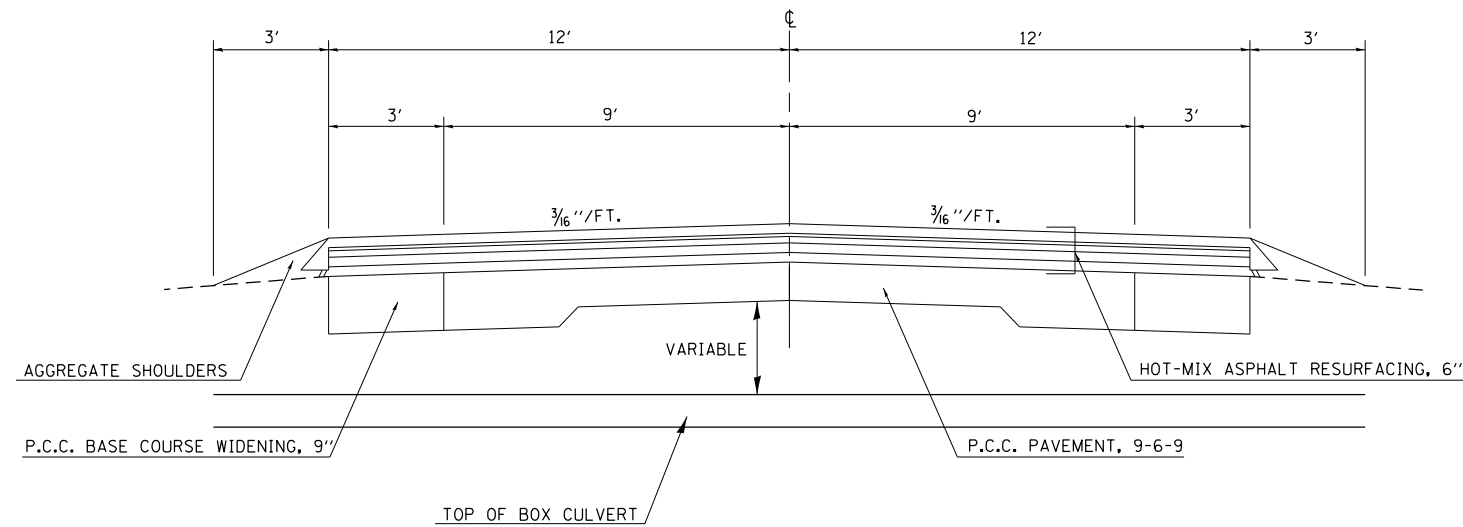
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|---------|----------|-----------------|--------------|
| 116 | 1251 | RICHLAND | | 10 |

CONTRACT NO. 74616

ILLINOIS FED. AIG PROJECT

EXISTING TYPICAL CROSS SECTION

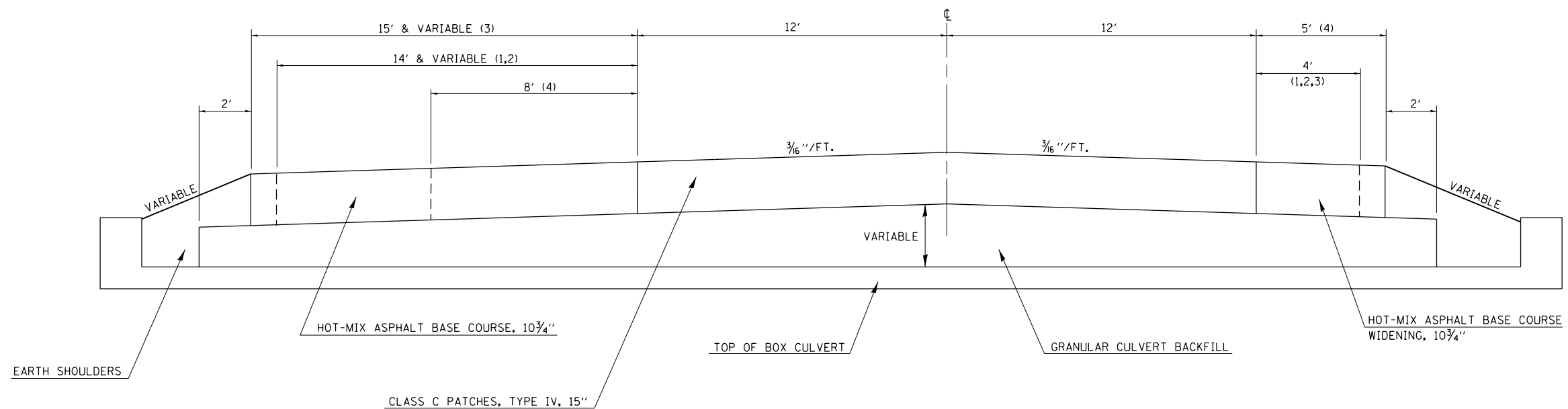
STA. 272+93.20 TO STA. 273+37.20
 STA. 295+95.00 TO STA. 296+28.20
 STA. 309+66.60 TO STA. 310+14.60
 STA. 328+92.30 TO STA. 329+47.70



NOTE: NOT TO SCALE

PROPOSED TYPICAL CROSS SECTION

STA. 272+93.20 TO STA. 273+37.20 (1)
 STA. 295+95.00 TO STA. 296+28.20 (2)
 STA. 309+66.60 TO STA. 310+14.60 (3)
 STA. 328+92.30 TO STA. 329+47.70 (4)



NOTE: NOT TO SCALE

| | | | | | | | | | | | | |
|---------------------------------------|------------------------------|------------|-----------|---|-------------------------------|---------|-------------|---------------------------|---------|----------|--------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL CROSS SECTIONS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pwork\pwork\teasleyck\d0339485\07 | 4616-sh-typical.dgn | DRAWN - | REVISED - | | | | | 116 | 1251 | RICHLAND | 198 | 11 |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - | | CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | SCALE: n/a | SHEET 1 | OF 1 SHEETS | STA. | TO STA. | | | |

PAVEMENT MARKING SCHEDULE

| STATION TO STATION | | LENGTH FOOT | TEMPORARY PAVEMENT MARKING-LINE 4" (YELLOW) FOOT | TEMPORARY PAVEMENT MARKING-LINE 4" (DOUBLE YELLOW) FOOT | TEMPORARY PAVEMENT MARKING-LINE 4" (YELLOW SKIP-DASH) FOOT | TEMPORARY PAVEMENT MARKING-LINE 4" (WHITE) FOOT | WORK ZONE PAVEMENT MARKING REMOVAL SQ FT | PAINT PAVEMENT MARKING-LINE 4" (YELLOW) FOOT | TEMPORARY PAVEMENT MARKING-LINE 4" (DOUBLE YELLOW) FOOT | PAINT PAVEMENT MARKING-LINE 4" (YELLOW SKIP-DASH) FOOT | PAINT PAVEMENT MARKING-LINE 4" (WHITE) FOOT | RAISED REFLECTIVE PAVEMENT MARKER, BI-DIRECTIONAL (AMBER) EACH | RAISED REFLECTIVE PAVEMENT REMOVAL EACH |
|------------------------|-----|----------------|--|---|--|--|---|---|---|--|--|--|---|
| SN 080-8626/8644 | | | | | | | | | | | | | |
| 268+30.20 TO 278+41.90 | CL | 1,011.7 | | | 252.9 | | 84.3 | | | 252.9 | | 13 | 13 |
| 269+25.64 TO 276+99.53 | RT. | 773.9 | | | | 773.9 | 258.0 | | | | 773.9 | | |
| 268+30.20 TO 278+41.90 | LT. | 1,011.7 | | | | 1,011.7 | 337.3 | | | | 1,011.7 | | |
| SN 080-8625/8643 | | | | | | | | | | | | | |
| 291+53.70 TO 301+53.80 | CL | 1,000.1 | | | 250.0 | | 83.4 | | | 250.0 | | 13 | 13 |
| 292+53.70 TO 300+09.49 | RT. | 755.8 | | | | 755.8 | 252.0 | | | | 755.8 | | |
| 291+53.70 TO 301+53.80 | LT. | 1,000.1 | | | | 1,000.1 | 333.4 | | | | 1,000.1 | | |
| SN 080-8624/8642 | | | | | | | | | | | | | |
| 305+71.80 TO 315+50.10 | CL | 978.3 | | | 244.6 | | 81.5 | | | 244.6 | | 12 | 12 |
| 305+66.47 TO 314+11.64 | RT. | 845.2 | | | | 845.2 | 281.8 | | | | 845.2 | | |
| 305+71.80 TO 315+50.10 | LT. | 978.3 | | | | 978.3 | 326.2 | | | | 978.3 | | |
| SN 080-8623/2006 | | | | | | | | | | | | | |
| 326+57.20 TO 328+40.71 | CL | 183.5 | 183.5 | | 45.9 | | 76.5 | 183.5 | | 45.9 | | 3 | 3 |
| 328+40.71 TO 332+26.80 | CL | 386.1 | | 772.2 | | | 257.5 | | 772.2 | | | 4 | 4 |
| 327+57.20 TO 330+88.05 | RT. | 330.9 | | | | 330.9 | 110.3 | | | | 330.9 | | |
| 326+57.20 TO 332+26.80 | LT. | 569.6 | | | | 569.6 | 189.9 | | | | 569.6 | | |
| PROJECT TOTALS | | 9,825 | 184 | 772 | 793 | 6,265 | 2,672 | 184 | 772 | 793 | 6,266 | 45 | 45 |

TREE REMOVAL 6 TO 15 UNITS DIAMETER

| LOCATION | TOTAL (UNITS) |
|-----------------------|------------------|
| SN 080-8626 | |
| 273+06.00 44.5' RT. | 7 |
| 273+08.00 65' RT. | 8 |
| 273+47.00 45' RT. | 13 |
| 273+12.00 65' LT. | 9 |
| 273+13.00 65' LT. | 10 |
| SN 080-8625 | |
| 294+31.00 37' LT. | 13 |
| 294+53.00 39' LT. | 14 |
| 295+02.00 41' LT. | 9 |
| 295+29.00 41' LT. | 9 |
| 295+37.00 40.5' LT. | 8 |
| 295+85.00 40' LT. | 8 |
| 296+04.00 50' LT. | 9 |
| 296+19.00 39' LT. | 6 |
| 296+44.00 41.5' LT. | 9 |
| 296+62.00 40' LT. | 7 |
| 296+70.00 41.5' LT. | 9 |
| 296+76.00 45.5' LT. | 8 |
| 296+87.00 44' LT. | 10 |
| SN 080-8624 | |
| 309+77.00 42' RT. | 10 |
| 309+78.00 42' RT. | 10 |
| 310+26.00 40.5' RT. | 9 |
| 310+21.00 47' RT. | 11 |
| 310+21.00 50.5' RT. | 10 |
| 310+01.00 73.5' RT. | 11 |
| SN 080-8623 | |
| 329+00.14 78.7' RT. | 9 |
| 329+02.00 85.9' RT. | 12 |
| 329+02.30 88.3' RT. | 8 |
| 329+08.00 78.6' RT. | 11 |
| PROJECT TOTAL = 267.0 | |

AGGREGATE SURFACE COURSE, TYPE B

| LOCATION | LENGTH (FOOT) | WIDTH (FOOT) | DEPTH (FOOT) | QUANTITY (TON) |
|---------------------|------------------|-----------------|-----------------|-------------------|
| 274+94.80 LT. F.E. | VARIABLE | VARIABLE | 0.5 | 32.7 |
| 297+73.20 LT. P.E. | VARIABLE | VARIABLE | 0.5 | 22.4 |
| *303+11.02 RT. F.E. | VARIABLE | VARIABLE | 0.5 | 32.2 |
| PROJECT TOTAL = | | | | 87 |

*NOTE: THIS IS A NEW ENTRANCE FOR MILTON MICHAEL AND LINDA L. MILLER ON PARCEL 7304104, SEE COMMITMENT FILE AND ENTRANCE DETAILS.

INCIDENTAL HOT-MIX ASPHALT SURFACING

| LOCATION | LENGTH (FEET) | AVG. WIDTH (FEET) | AREA (SQ YD) | AVE THICK (INCH) | QUANTITY (TON) |
|----------------------------------|------------------|-------------------------|-----------------|------------------------|-------------------|
| 080-8626/8644 | | | | | |
| 276+48.66 RT. PRA (EBENEZER LN.) | 10.0 | VARIABLE | 54.9 | 1.50 | 4.6 |
| 080-8623/2006 | | | | | |
| 328+76.73 LT. PRA (ELBOW LN.) | 10.0 | VARIABLE | 38.0 | 1.50 | 3.2 |
| 329+66.04 RT. PRA (ELBOW LN.) | 10.0 | VARIABLE | 63.4 | 1.50 | 5.3 |
| TOTAL = | | | | | 13 |

SEEDING SCHEDULE

EARTHWORK SCHEDULE

| LOCATION | EARTH EXCAVATION CU YD | EARTH EXCAVATION ADJ. FOR SHRINKAGE CU YD | EMBANKMENT CU YD | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD |
|-------------------|---------------------------|--|---------------------|---|
| FAP 116 (IL 130) | | | | |
| 080-8626/8644 | | | | |
| 268+65 TO 277+65 | 374.00 | 280.50 | 646.00 | (-) 365.50 |
| 080-8625/8643 | | | | |
| 291+85 TO 300+60 | 284.00 | 213.00 | 255.00 | (-) 42.00 |
| 080-8624/8642 | | | | |
| 305+04 TO 314+79 | 1,755.00 | 1,316.25 | 969.00 | (+) 347.25 |
| 080-8623/2006 | | | | |
| 324+29 TO 331+79 | 45.00 | 33.75 | 306.00 | (-) 272.25 |
| | 2,530.00 | 1,897.50 | 2,176.00 | (-) 332.75 |

| LOCATION | LENGTH | SEEDING, CLASS 2 (AC) | NITROGEN FERTILIZER NUTRIENT (LBS) | PHOSPORUS FERTILIZER NUTRIENT (LBS) | POTASSIUM FERTILIZER NUTRIENT (LBS) | MULCH, METHOD 2 (AC) | TEMPORARY EROSION CONTROL SEEDING (LBS) |
|------------------------|---------|--------------------------|---------------------------------------|--|--|-------------------------|---|
| | | | | | | | |
| SN 080-8626 | | | | | | | |
| 268+89.68 TO 277+64.68 | RT./LT. | 875.0 | 0.57 | 50.9 | 50.9 | 50.9 | 0.57 |
| SN 080-8625 | | | | | | | |
| 292+10.28 TO 300+60.28 | RT./LT. | 850.0 | 0.51 | 45.6 | 45.6 | 45.6 | 0.51 |
| SN 080-8624 | | | | | | | |
| 305+29.38 TO 314+79.38 | RT./LT. | 950.0 | 1.01 | 90.9 | 90.9 | 90.9 | 1.01 |
| SN 080-8623 | | | | | | | |
| 326+54.37 TO 331+79.37 | RT./LT. | 525.0 | 0.32 | 28.6 | 28.6 | 28.6 | 0.32 |
| PROJECT TOTAL = | | 2.4 | 216.0 | 216.0 | 216.0 | 2.4 | 240.0 |

HOT-MIX ASPHALT BASE COURSE WIDENING, 10 3/4'''

| LOCATION | LENGTH (FOOT) | WIDTH (FOOT) | TOTAL (SQ YDS) |
|------------------------|------------------|-----------------|-------------------|
| SN 080-8626 | | | |
| 270+07.60 TO 270+93.30 | LT. | 85.70 | 4.00 |
| 268+75.60 TO 277+49.50 | RT. | 873.90 | 4.00 |
| 275+31.30 TO 276+19.30 | LT. | 88.00 | 4.00 |
| SN 080-8625 | | | |
| 293+32.30 TO 294+01.80 | LT. | 69.50 | 4.00 |
| 292+01.14 TO 300+59.50 | RT. | 858.36 | 4.00 |
| 298+27.80 TO 299+96.90 | LT. | 169.10 | 4.00 |
| SN 080-8624 | | | |
| 306+58.80 TO 307+56.90 | LT. | 98.10 | 4.00 |
| 305+16.50 TO 314+59.40 | RT. | 942.90 | 4.00 |
| 312+16.50 TO 313+15.50 | LT. | 99.00 | 4.00 |
| SN 080-8623 | | | |
| 327+31.70 TO 331+20.50 | RT. | 388.80 | 5.00 |
| TOTAL = | | | 1675.80 |

TREE REMOVAL OVER 15 UNITS DIAMETER

| LOCATION | TOTAL (UNITS) | |
|----------------------|------------------|-----|
| SN 080-8626 | | |
| 273+20.00 45' RT. | 24 | |
| 273+25.00 58' RT. | 28 | |
| SN 080-8625 | | |
| 296+29.00 31' LT | 57 | |
| SN 080-8624 | | |
| 309+87.00 48' RT. | 21 | |
| 310+21.00 66' RT. | 16 | |
| SN 080-8623 | | |
| 329+30.50 118.8' RT. | 39 | |
| 329+32.30 70.0' RT. | 16 | |
| 329+32.30 72.0' RT. | 16 | |
| PROJECT TOTAL = | | 217 |

HOT-MIX ASPHALT BASE COURSE, 10 3/4'''

| LOCATION | LENGTH (FOOT) | WIDTH (FOOT) | TOTAL (SQ YDS) |
|------------------------|------------------|-----------------|-------------------|
| SN 080-8626 | | | |
| 270+93.90 TO 272+17.30 | LT. | 123.40 | 9.00 |
| 272+17.30 TO 274+10.10 | LT. | 192.80 | 14.00 |
| 274+10.10 TO 275+31.30 | LT. | 121.20 | 9.00 |
| SN 080-8625 | | | |
| 294+01.80 TO 295+00.30 | LT. | 98.50 | 9.00 |
| 295+00.30 TO 297+03.70 | LT. | 203.40 | 14.00 |
| 297+03.70 TO 298+27.80 | LT. | 124.10 | 9.00 |
| SN 080-8624 | | | |
| 307+56.90 TO 308+90.60 | LT. | 133.70 | 9.50 |
| 308+90.60 TO 310+87.00 | LT. | 196.40 | 15.00 |
| 310+87.00 TO 312+16.50 | LT. | 129.50 | 9.50 |
| SN 080-8623 | | | |
| 326+72.70 TO 331+56.60 | LT. | 483.90 | 8.00 |
| TOTAL = | | | 2,118.80 |

| | | | |
|---|------------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| ci:\pw_work\p1dot\teasleyck\d0339485\07 | 4616-sh1-sch.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 2 OF 3 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|-----------------|--------------|
| 116 | 125I | RICHLAND | 198 | 13 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TEMPORARY DITCH CHECKS

| LOCATION | LENGTH (FOOT) |
|-----------------|---------------|
| SN 080-8626 | |
| 270+89.70 LT. | 8.0 |
| 273+83.80 LT. | 8.0 |
| 274+88.60 LT. | 8.0 |
| 275+64.70 LT. | 8.0 |
| 271+14.70 RT. | 8.0 |
| 271+68.60 RT. | 8.0 |
| 272+25.80 RT. | 8.0 |
| 272+83.00 RT. | 8.0 |
| SN 080-8625 | |
| 293+10.30 RT. | 8.0 |
| 294+01.90 RT. | 8.0 |
| 294+94.40 RT. | 8.0 |
| 295+84.90 RT. | 8.0 |
| 296+35.30 RT. | 8.0 |
| 297+98.90 RT. | 8.0 |
| 293+10.30 LT. | 8.0 |
| 293+73.30 LT. | 8.0 |
| 294+36.30 LT. | 8.0 |
| 294+99.30 LT. | 8.0 |
| 295+62.30 LT. | 8.0 |
| 295+97.30 LT. | 8.0 |
| 296+22.80 LT. | 8.0 |
| 296+42.00 LT. | 8.0 |
| 296+86.50 LT. | 8.0 |
| 297+30.50 LT. | 8.0 |
| 297+60.30 LT. | 8.0 |
| SN 080-8624 | |
| 306+29.40 RT. | 8.0 |
| 306+95.70 RT. | 8.0 |
| 307+62.00 RT. | 8.0 |
| 308+28.40 RT. | 8.0 |
| 308+94.70 RT. | 8.0 |
| 309+58.90 RT. | 8.0 |
| 306+29.40 LT. | 8.0 |
| 307+15.30 LT. | 8.0 |
| 307+98.70 LT. | 8.0 |
| 308+87.50 LT. | 8.0 |
| 310+40.30 LT. | 8.0 |
| 312+64.40 LT. | 8.0 |
| 312+99.30 LT. | 8.0 |
| 313+29.40 LT. | 8.0 |
| SN 080-8623 | |
| 326+79.40 LT. | 8.0 |
| 327+41.40 LT. | 8.0 |
| 330+34.20 LT. | 8.0 |
| 330+76.80 LT. | 8.0 |
| 331+04.40 LT. | 8.0 |
| PROJECT TOTAL = | 352 |

PATCHING SCHEDULE

| LOCATION | CLASS C PATCHES, TYPE IV, 15" SO YD |
|------------------|-------------------------------------|
| FAP 116 (IL 130) | |
| SN 080-8626 | 116.4 |
| SN 080-8625 | 88.2 |
| SN 080-8624 | 125.9 |
| SN 080-8623 | 145.3 |
| PROJECT TOTAL = | 476 |

GRANULAR CULVERT BACKFILL

| LOCATION | TOTAL (CU YDS) |
|-----------------|----------------|
| SN 080-8644 | 348.9 |
| SN 080-8643 | 142.7 |
| SN 080-8642 | 409.2 |
| SN 080-2006 | 484.5 |
| PROJECT TOTAL = | 1385.3 |

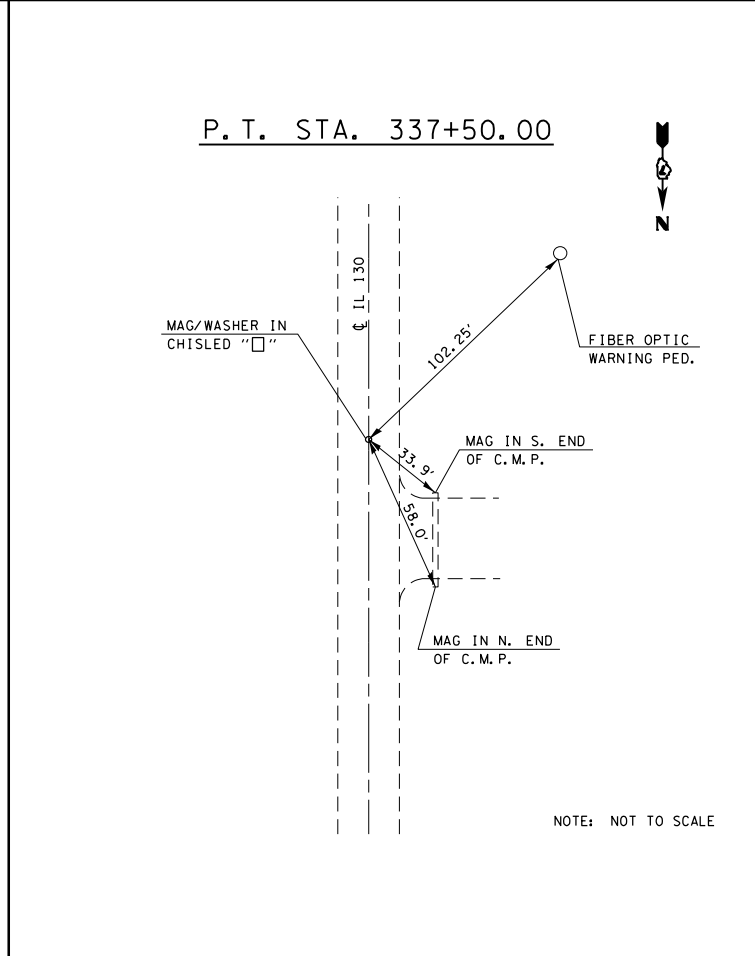
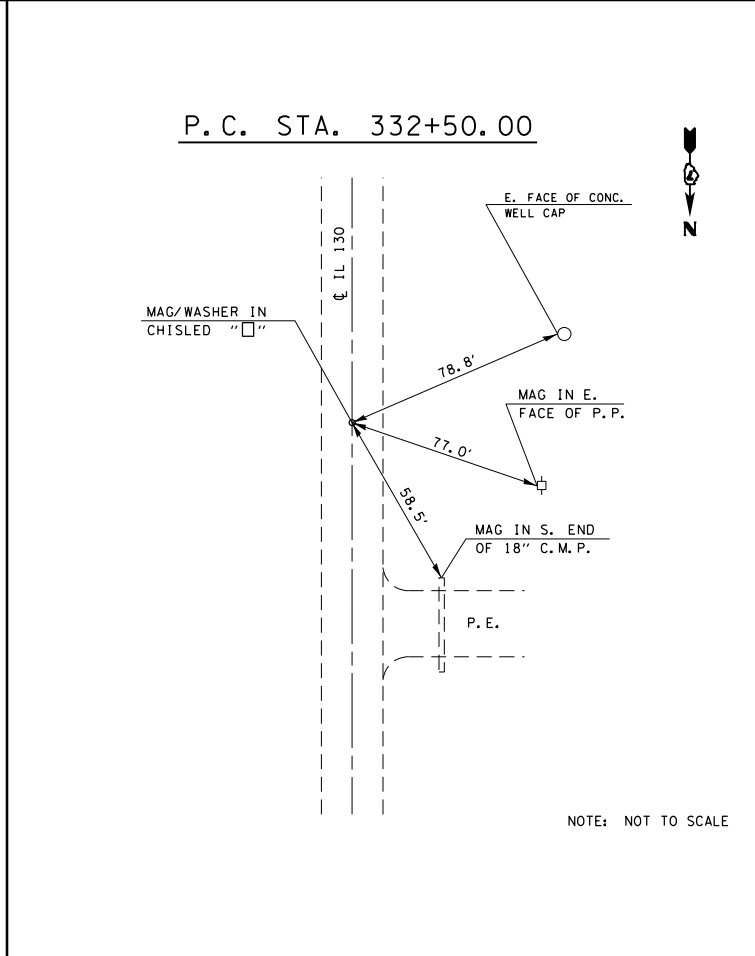
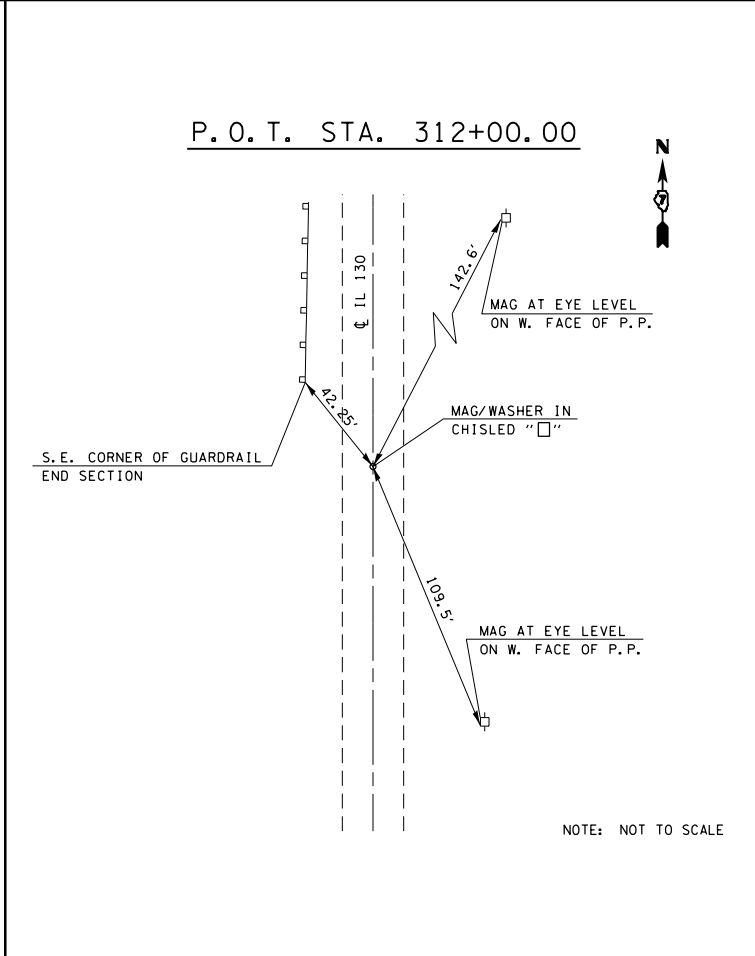
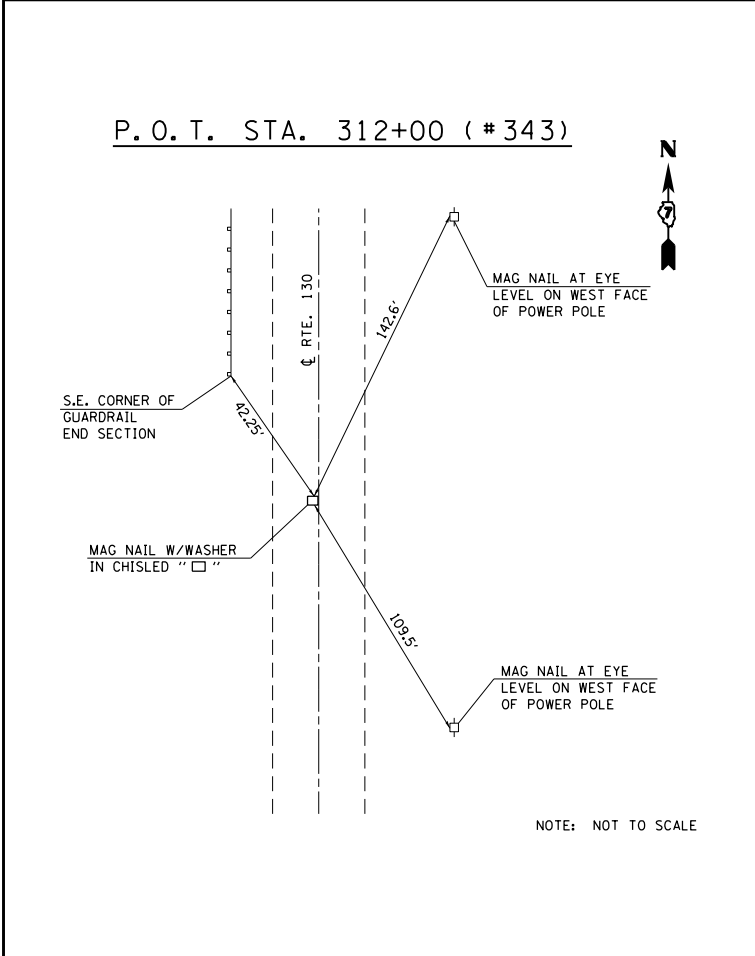
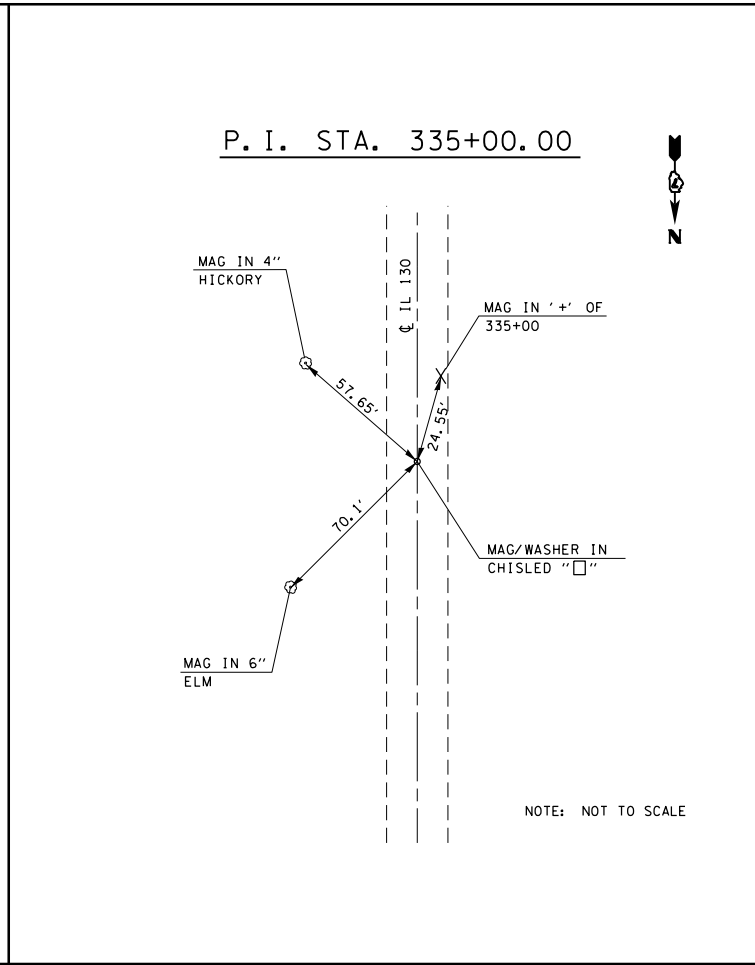
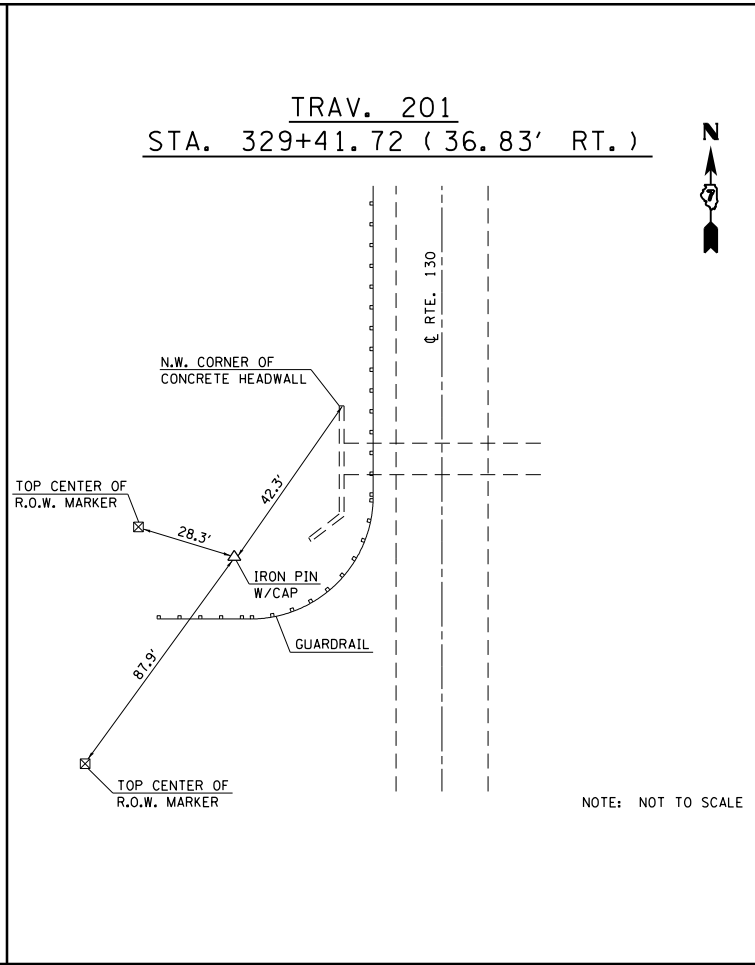
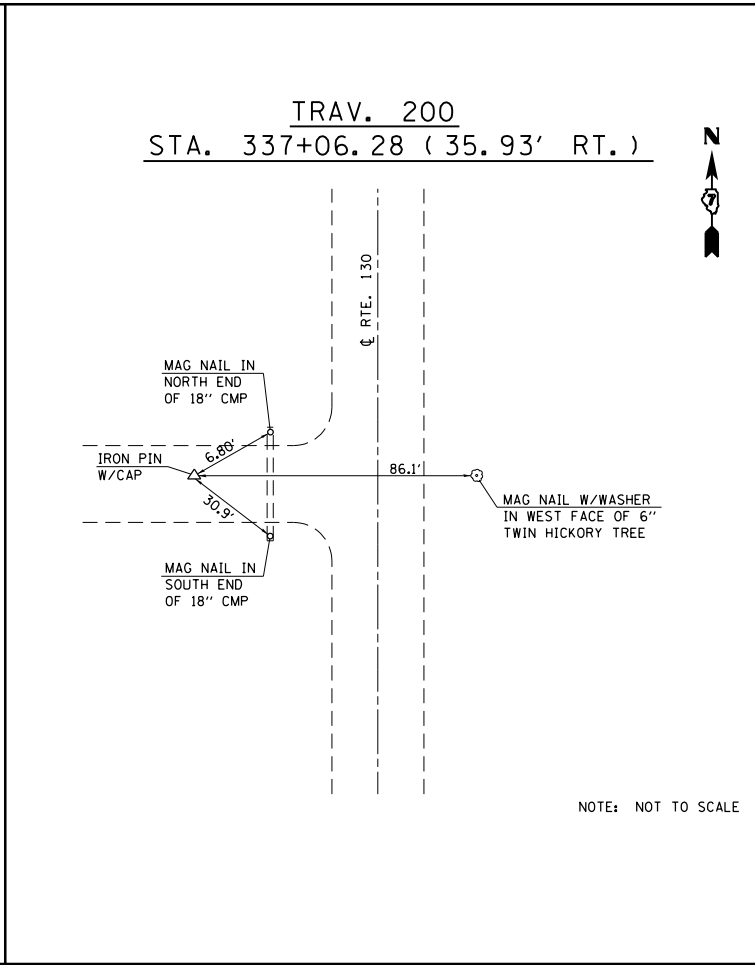
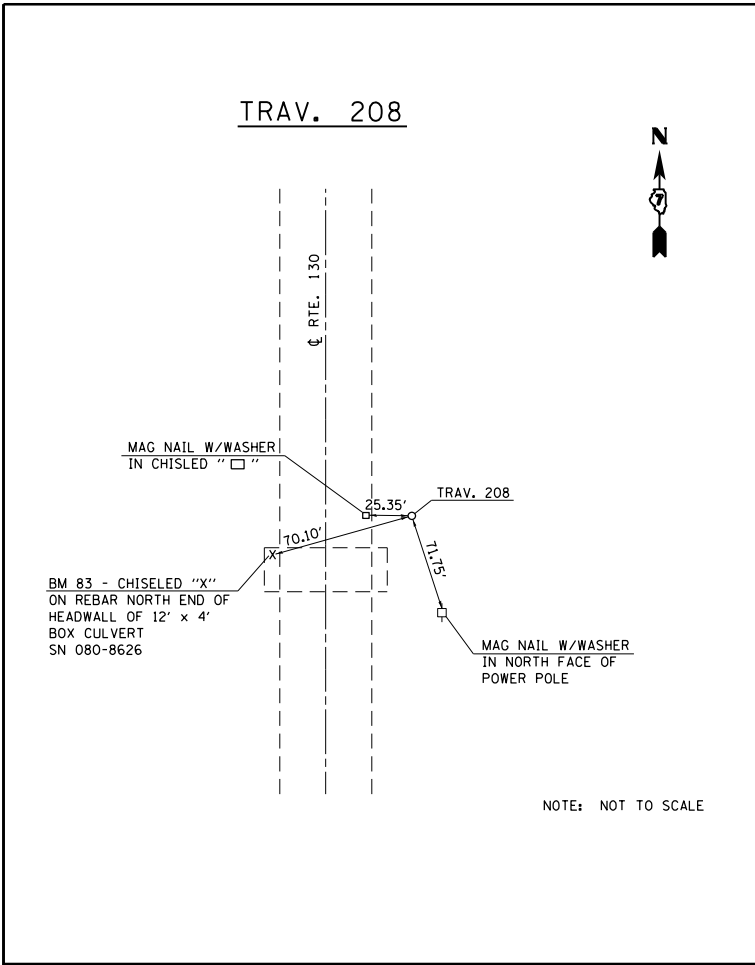
FURNISHING AND ERECTING R. O. W. MARKERS

| LOCATION | QUANTITY |
|---------------------|----------|
| 269+40.00 40.0' RT. | 1.0 |
| 270+00.00 40.0' LT. | 1.0 |
| 271+15.00 55.0' LT. | 1.0 |
| 272+50.00 55.0' LT. | 1.0 |
| 272+80.00 85.0' LT. | 1.0 |
| 272+85.00 60.0' RT. | 1.0 |
| 273+10.00 70.0' RT. | 1.0 |
| 273+20.00 85.0' LT. | 1.0 |
| 273+45.00 60.0' LT. | 1.0 |
| 273+50.00 70.0' RT. | 1.0 |
| 273+80.00 40.0' RT. | 1.0 |
| 276+24.30 50.0' LT. | 1.0 |
| 293+70.00 40.0' LT. | 1.0 |
| 295+00.00 40.0' RT. | 1.0 |
| 295+85.00 60.0' LT. | 1.0 |
| 296+00.00 65.0' RT. | 1.0 |
| 296+35.00 60.0' LT. | 1.0 |
| 299+25.00 40.0' LT. | 1.0 |
| 305+00.00 40.0' RT. | 1.0 |
| 305+00.00 40.0' LT. | 1.0 |
| 308+00.00 75.0' LT. | 1.0 |
| 308+50.00 80.0' RT. | 1.0 |
| 310+00.00 75.0' LT. | 1.0 |
| 310+50.00 80.0' RT. | 1.0 |
| 312+00.00 40.0' RT. | 1.0 |
| 312+55.00 60.0' LT. | 1.0 |
| 314+15.00 40.0' LT. | 1.0 |
| 327+00.00 40.0' RT. | 1.0 |
| 327+50.00 50.0' RT. | 1.0 |
| 328+25.00 40.0' LT. | 1.0 |
| 328+68.57 95.0' LT. | 1.0 |
| 328+75.00 50.0' RT. | 1.0 |
| 329+37.80 95.0' RT. | 1.0 |
| PROJECT TOTAL = | 33.0 |

GUARDRAIL SCHEDULE

| LOCATION (FOOT) | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (EACH) | TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL), (TANGENT) (EACH) | LONG-SPAN GUARDRAIL OVER CULVERT, 18'-9" SPAN (FOOT) | STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS) (FOOT) | STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (FOOT) | TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL), TANGENT MODIFIED (EACH) | GUARDRAIL MARKERS, TYPE A (EACH) | TERMINAL MARKERS-DIRECT APPLIED (EACH) |
|----------------------------|---|--|--|---|---|---|----------------------------------|--|
| SN 080-8626/8644 | | | | | | | | |
| 272+36.07 TO 274+04.82 RT. | | 2 | 168.75 | | | | 4 | 2 |
| 272+23.73 TO 273+92.48 LT. | | | 168.75 | | | 2 | 4 | 2 |
| SN 080-8625/8643 | | | | | | | | |
| 295+27.10 TO 296+95.85 RT. | | 2 | 168.75 | | | | 4 | 2 |
| 295+27.37 TO 296+96.12 LT. | | | 168.75 | | | 2 | 4 | 2 |
| SN 080-8624/8642 | | | | | | | | |
| 309+13.28 TO 310+82.03 RT. | | 2 | 168.75 | | | | 4 | 2 |
| 309+13.30 TO 310+82.05 LT. | | | 168.75 | | | 2 | 4 | 2 |
| SN 080-8623/2006 | | | | | | | | |
| 328+19.00 TO 329+06.50 RT. | 87.5 | 2 | | 32 | 21 | | 4 | 2 |
| 329+34.10 TO 330+21.60 LT. | 87.5 | 2 | | 43 | 21 | | 4 | 2 |
| PROJECT TOTALS = | 175.0 | 10.0 | 1,012.5 | 75.0 | 42.0 | 6.0 | 32.0 | 16.0 |

REV.



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|---|------------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| ei:\pw\work\p\dot\teasleyck\d0339485\07 | 4616-sh1-ties.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

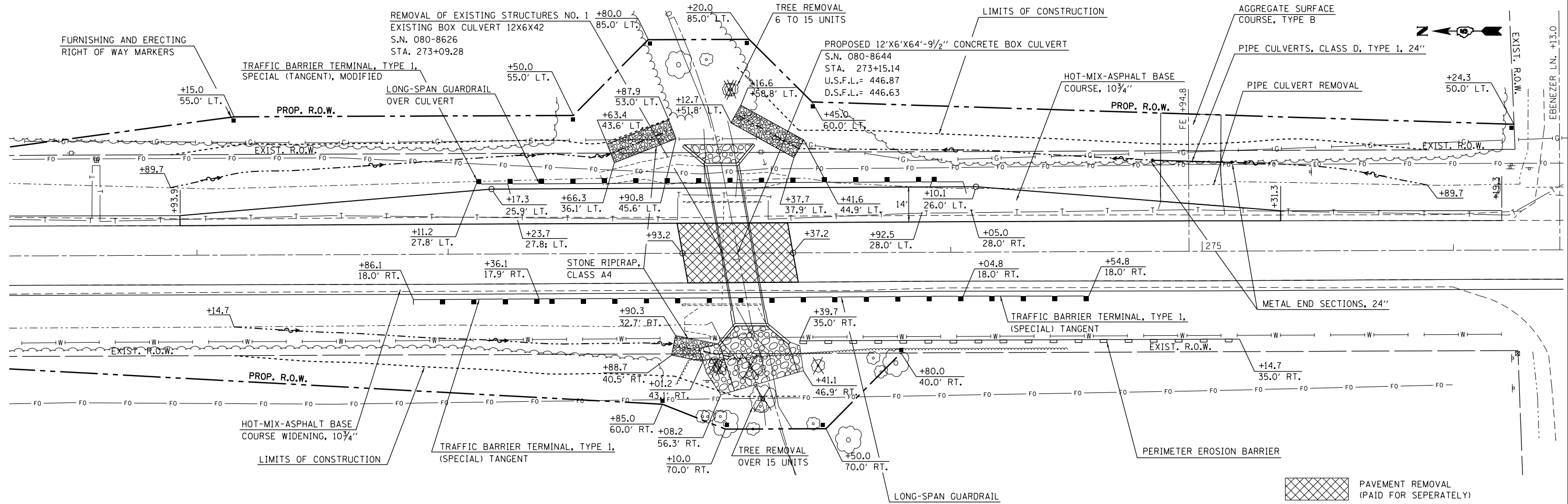
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TIE POINTS

| | | | |
|------------|---------------------|------|---------|
| SCALE: N/A | SHEET 1 OF 1 SHEETS | STA. | TO STA. |
|------------|---------------------|------|---------|

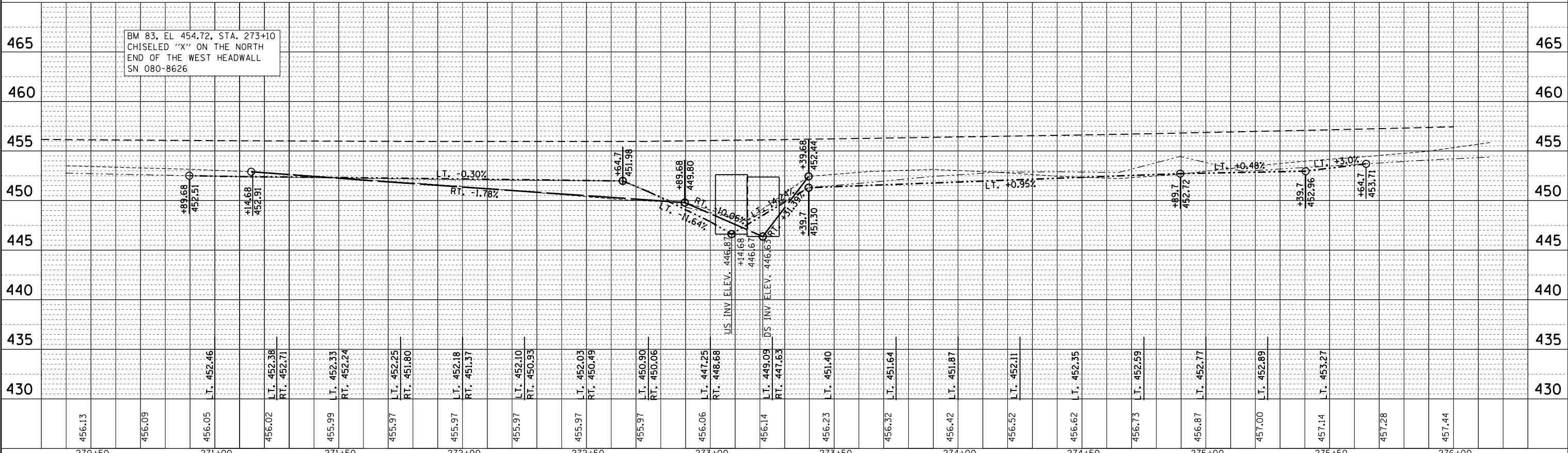
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 15 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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|------|-----------|
| DATE | |
| BY | |
| PLAN | SURVEYED |
| | PLOTTED |
| | ALIGNED |
| | CHECKED |
| | DESIGNED |
| | NO. _____ |
| | FILE NAME |



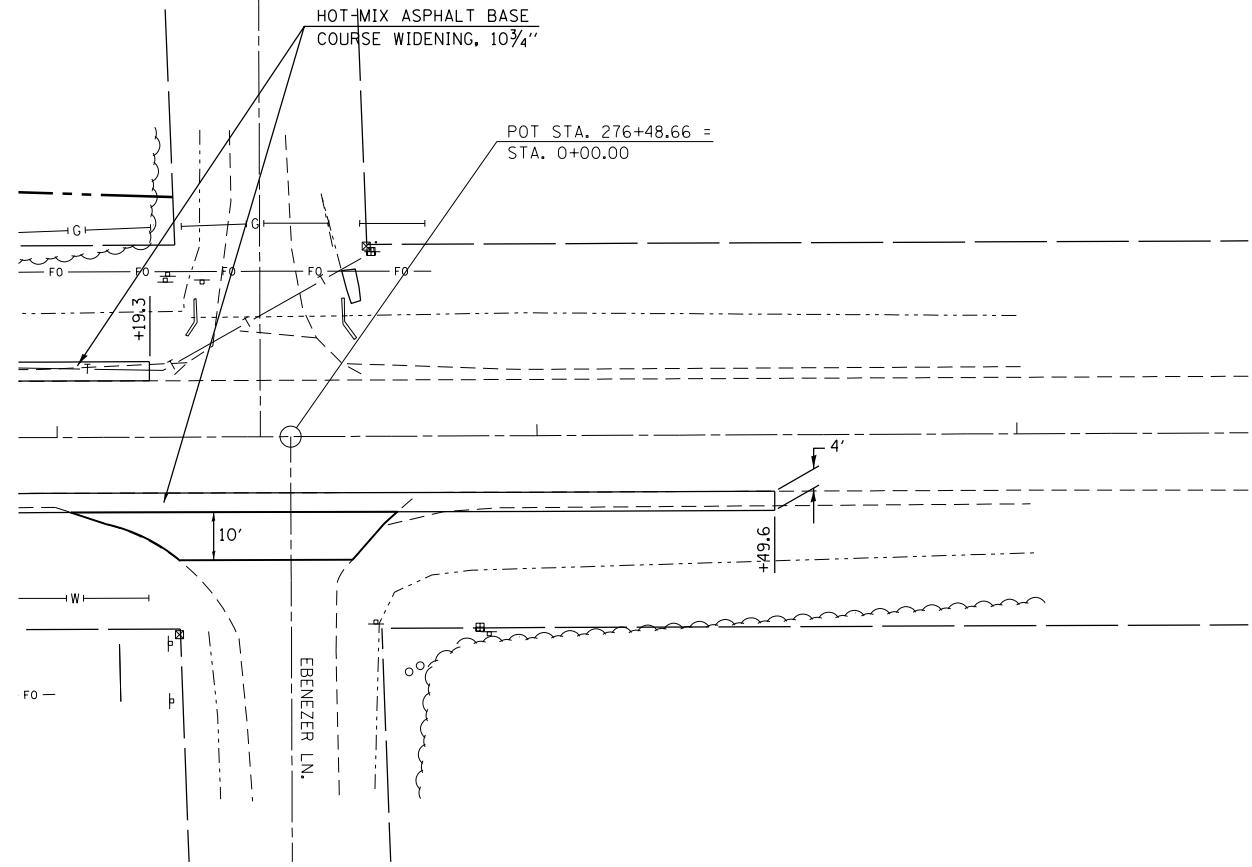
*NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING

| | |
|---------|-----------------------------|
| DATE | |
| BY | |
| PROFILE | SURVEYED |
| | PLOTTED |
| | GRADES CHECKED |
| | STRUCTURE NOTATIONS CHECKED |
| | NO. _____ |



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|---|-----------------------------|------------|-----------|---|---|---------------------------|---------|----------|--------------|-----------|
| FILE NAME = | USER NAME = teasleyk | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN - PROFILE S.N. 080-8644 | F.A.P. RT. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwork\pwork\teasleyk\d0339485\0774516-sh1-planprof.dgn | PLOT SCALE = 40.0000' / in. | DRAWN - | REVISED - | | | 116 | 1251 | RICHLAND | 198 | 17 |
| Default | PLOT DATE = 12/16/2014 | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | |
| | DATE - | REVISOR - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |

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| PLAN | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | NOTE BOOK | | |
| | NO. | | |
| | CHECKED | | |
| | FILE NAME | | |



•NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING

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|---------|--------------------|----|------|
| PROFILE | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | GRADES CHECKED | | |
| | NO. | | |
| | STRUCTURE | | |
| | NOT AT THIS OFFICE | | |

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| [Empty grid area for profile plotting] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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|---|-----------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
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| Default | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

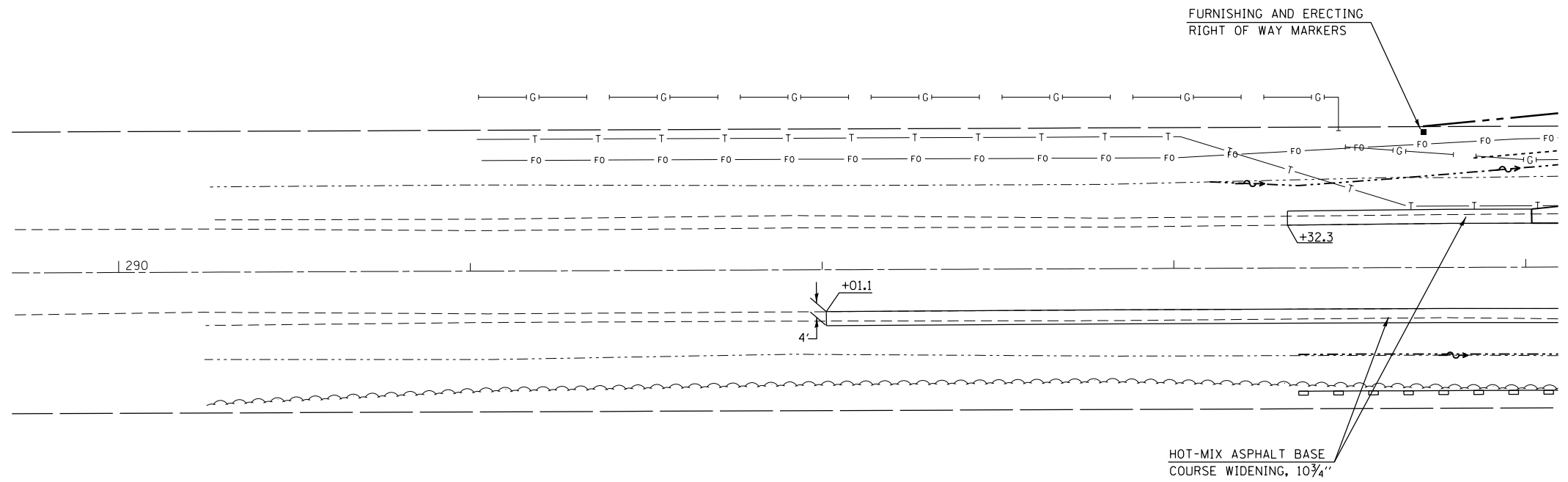
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|-----------------------|---------|--------------|--------------|
| PLAN - PROFILE | | | |
| S.N. 080-8644 | | | |
| SCALE: 20 | SHEET 3 | OF 10 SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------|----------|--------------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 18 |
| | | | | CONTRACT NO. 74616 |
| ILLINOIS FED. AID PROJECT | | | | |

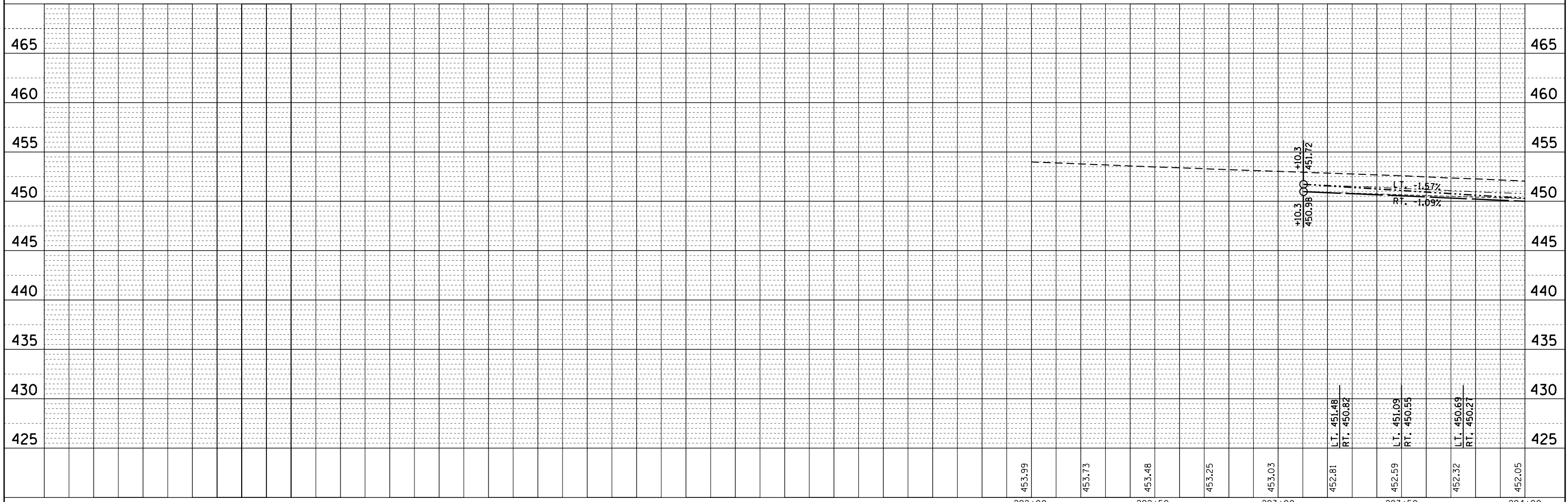


| | | |
|---------------|-------------------|------|
| PLAN | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED | BY |
| | ALIGNMENT CHECKED | |
| | FIELD FILE NAME | |

| | | |
|---------------|-----------------------------|------|
| PROFILE | SURVEYED | DATE |
| NOTE BOOK NO. | GRADES CHECKED | BY |
| | STRUCTURE NOTATIONS CHECKED | |



•NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING



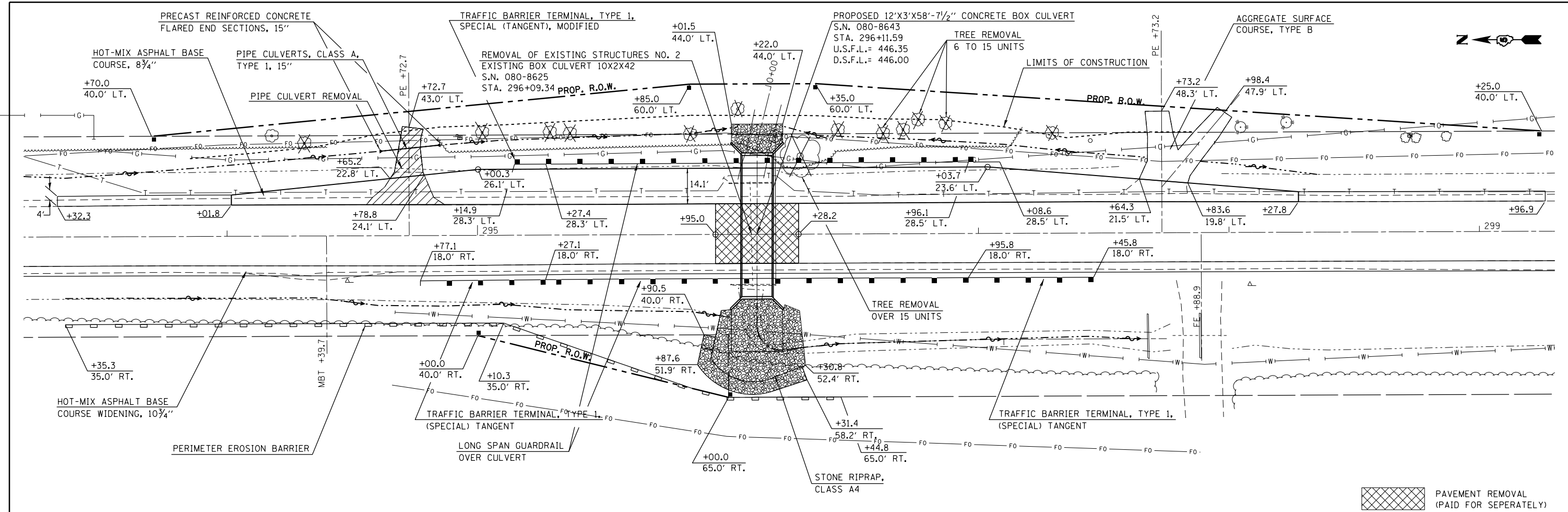
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| Default | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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|-----------------------|-----------------------------------|
| PLAN - PROFILE | |
| S.N. 080-8643 | |
| SCALE: 20 | SHEET 4 OF 10 SHEETS STA. TO STA. |

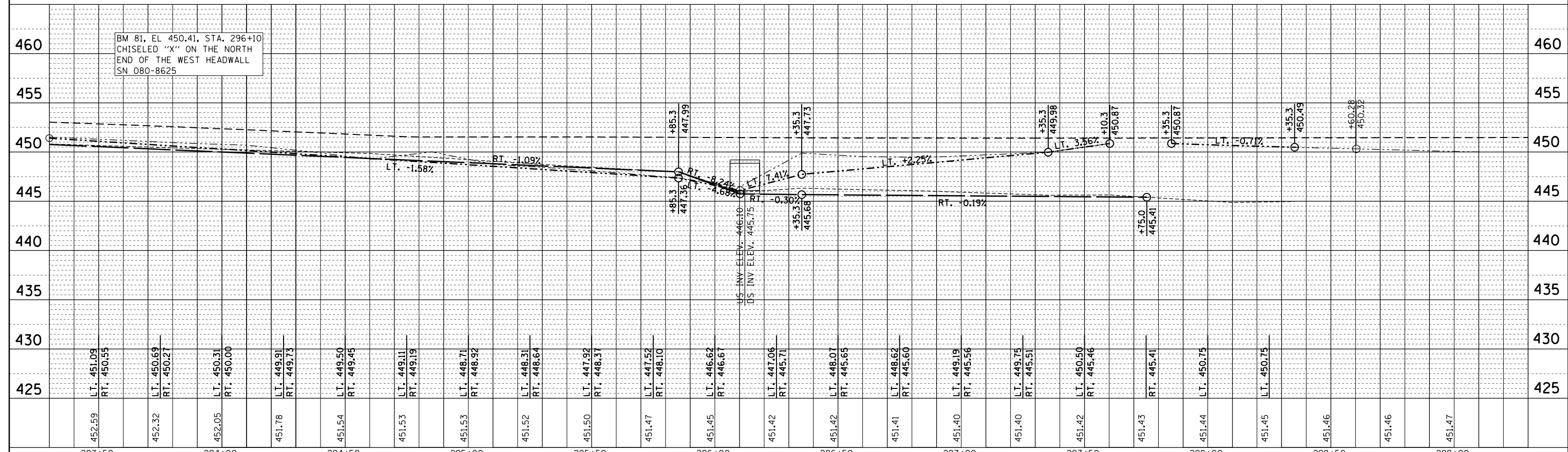
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|--------------------|---------|----------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 19 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

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| PLAN | SURVEYED | DATE |
| | PLOTTED | BY |
| | ALIGNED | |
| | CHECKED | |
| | FILE NAME | |
| | NO. | |

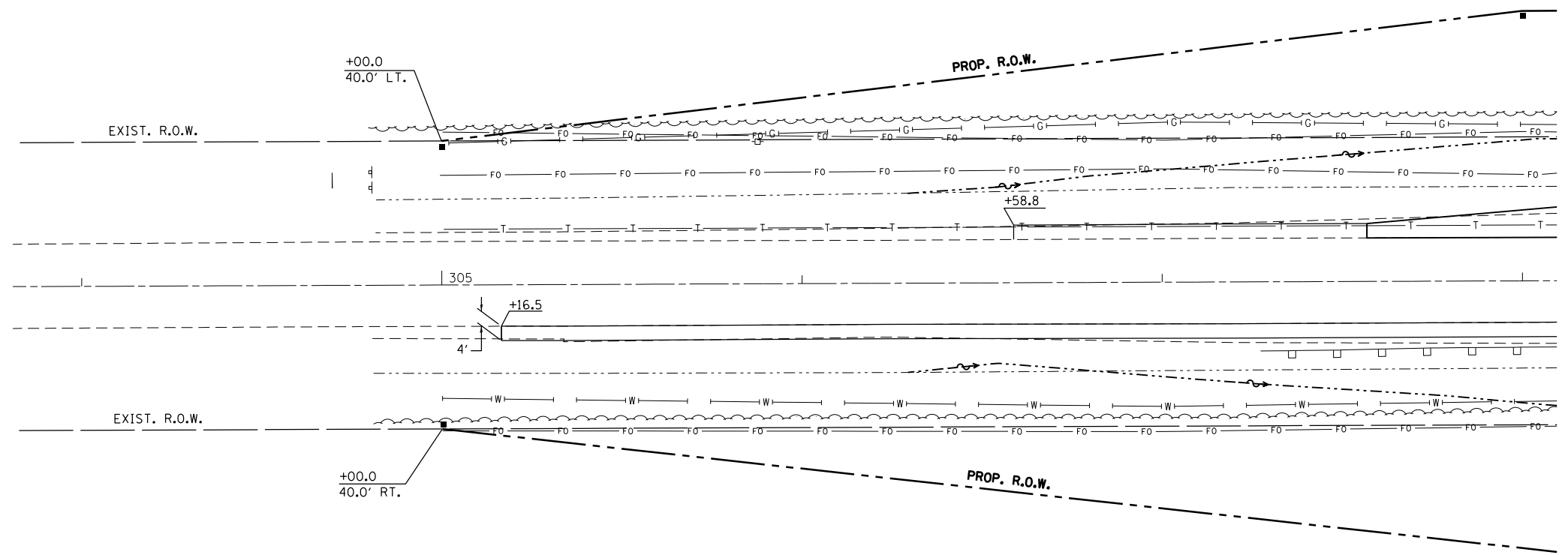


NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING

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| PROFILE | SURVEYED | DATE |
| | PLOTTED | BY |
| | GRADES CHECKED | |
| | STRUCTURE NOTATIONS CHECKED | |
| | NO. | |



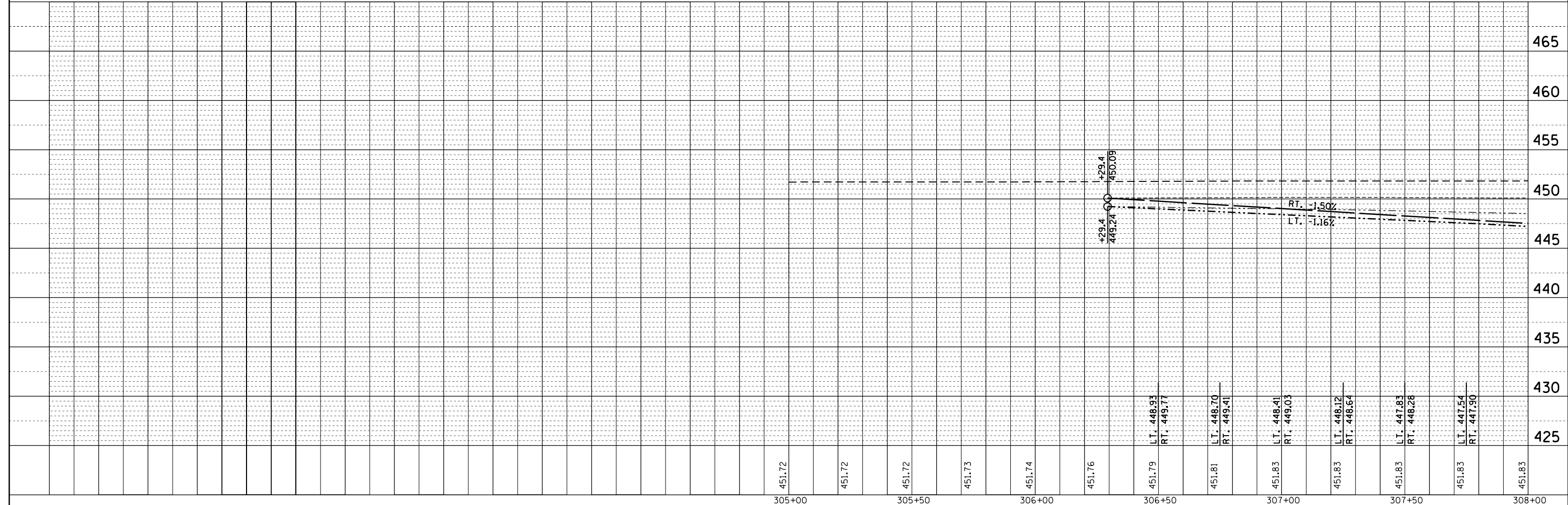
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| c:\pwwork\pwwork\teasleyk\d0339485\0774616-sht-planprof.dgn | PLOT SCALE = 40.0000' / in. | DRAWN - | REVISED - | | | 116 | 1251 | RICHLAND | 198 | 20 |
| Default | PLOT DATE = 12/16/2014 | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | |
| | | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |



*NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING

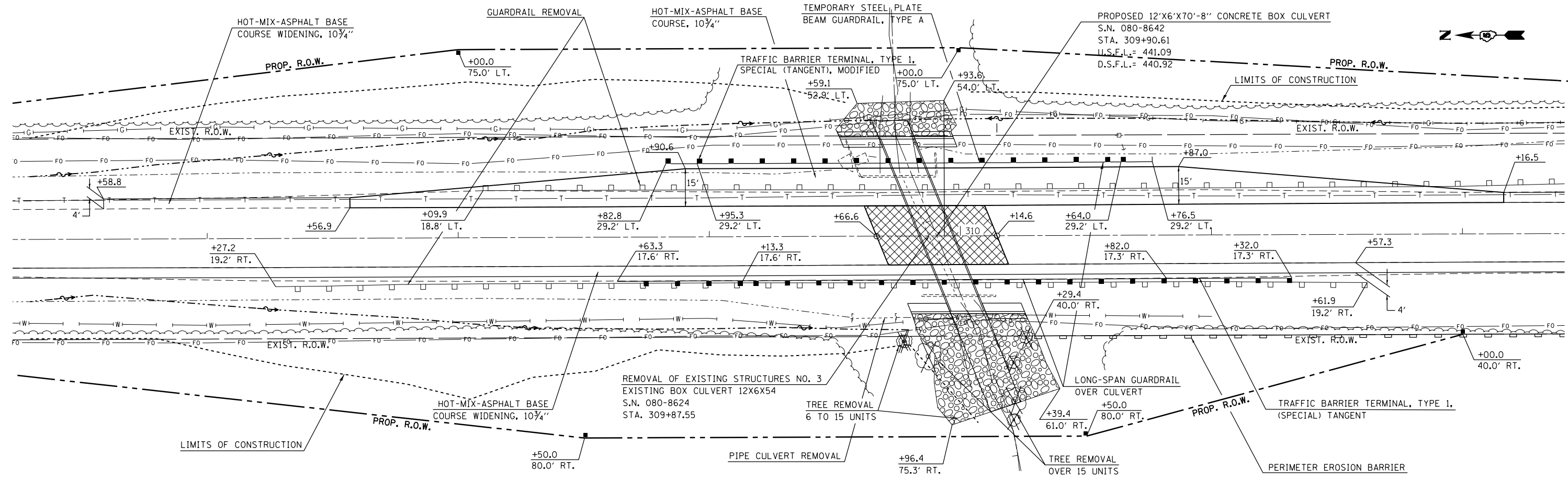
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| PLAN | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED | |
| | ALIGNMENT CHECKED | |
| | GRADE FILE NAME | |

| | | |
|---------------|-----------------------------|------|
| PROFILE | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED | |
| | GRADES CHECKED | |
| | STRUCTURE NOTATIONS CHECKED | |



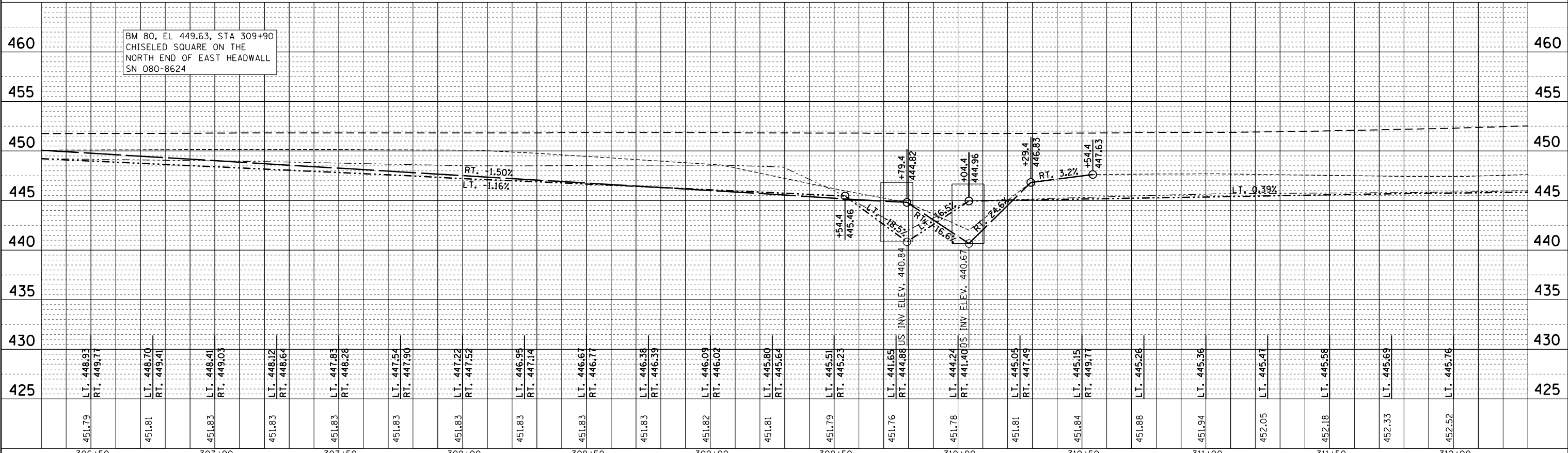
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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN - PROFILE S.N. 080-8642 | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| c:\pwork\pwork\teasleyck\d0339485\0774616-sht-planprof.dgn | | DRAWN - | REVISED - | | SCALE: 20 | SHEET 7 | OF 10 SHEETS | STA. | TO STA. | 116 | 1251 | 198 | 22 |
| Default | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - | | CONTRACT NO. 74616 | | | | | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | | | |

PLAN SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. CHECKED BY
 ALIGNMENT CHECKED BY
 STRUCTURE CHECKED BY
 ROAD FILE NAME



•NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING

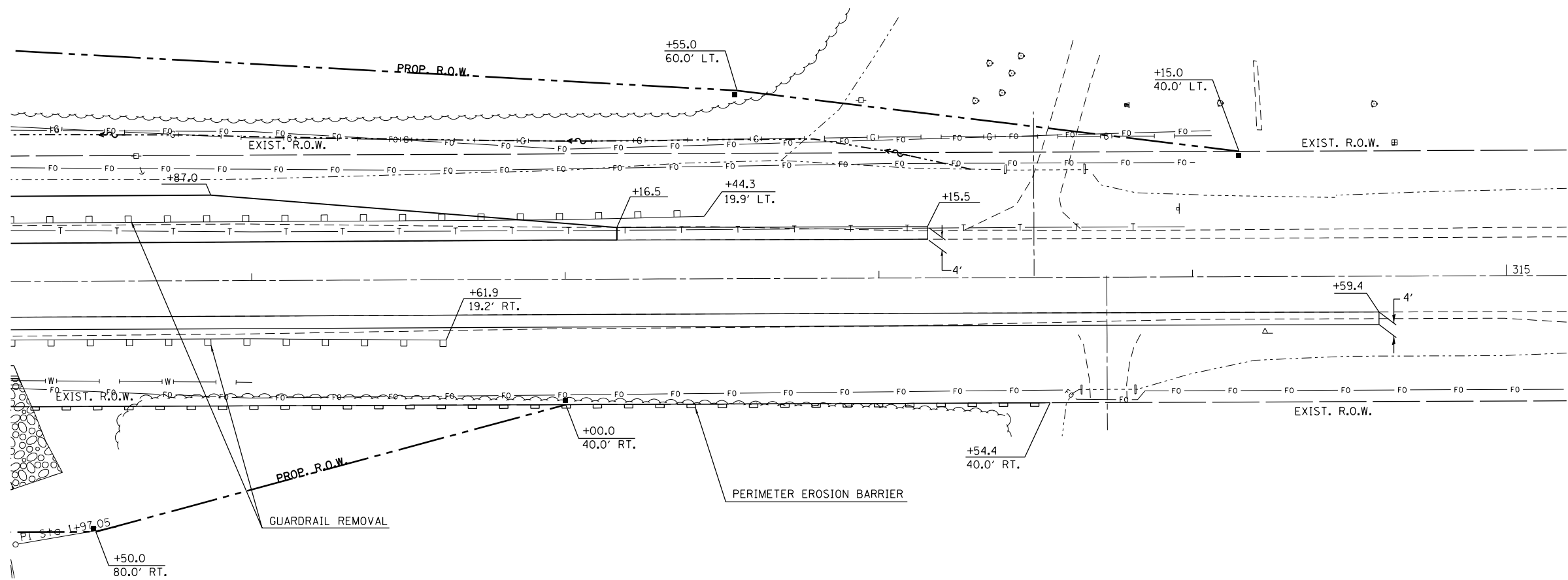
PROFILE SURVEYED BY DATE
 PLOTTED BY
 NOTE BOOK NO. CHECKED BY
 GRADES CHECKED BY
 STRUCTURE CHECKED BY
 NOTATIONS CHK'D



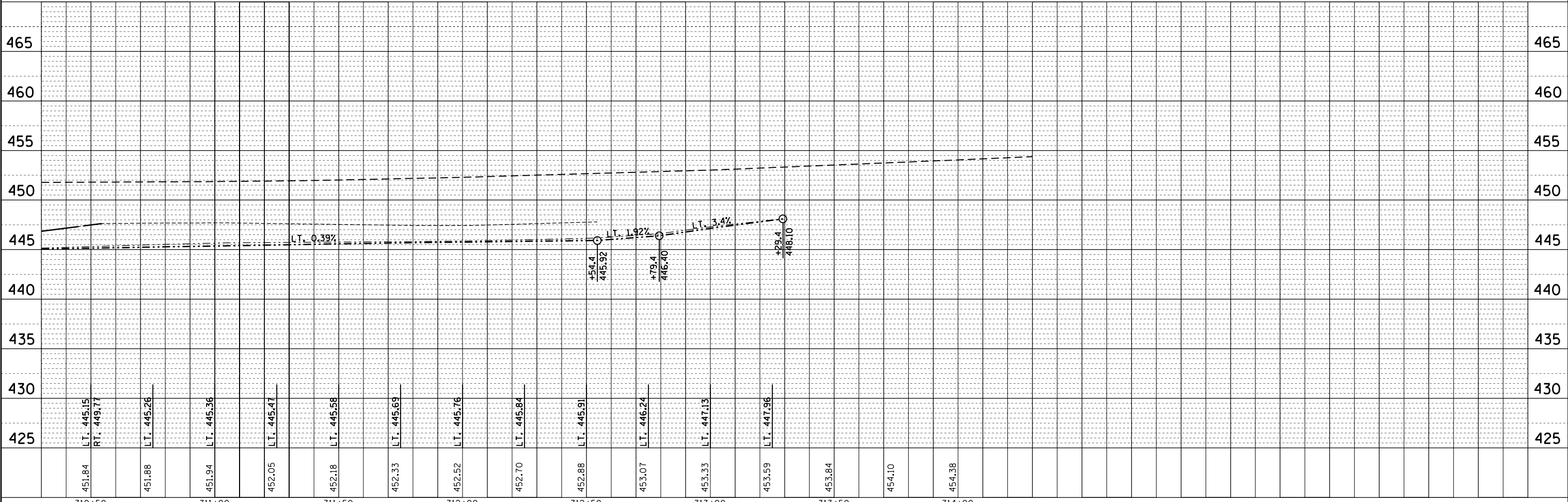
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|--|-----------------------------|------------|-----------|---|--|---------------------------------|--|---------------------------|---------|--------------|--------------|-----------|--------------------|--|--|
| c:\pwwork\pwwid\teasleyk\d0339485\0774616-sht-planprof.dgn | | DRAWN - | REVISED - | | | | | 116 | 1251 | RICHLAND | 198 | 23 | | | |
| Default | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - | | | | | SCALE: 20 | SHEET 8 | OF 10 SHEETS | STA. | TO STA. | CONTRACT NO. 74616 | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | | | | |

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| PLAN | SURVEYED | DATE |
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| | STRUCTURE NOTATIONS CHECKED | |
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| PROFILE | SURVEYED | DATE |
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| | GRADES CHECKED | |
| | STRUCTURE NOTATIONS CHECKED | |
| | NOTE BOOK NO. | |
| | FILE NAME | |



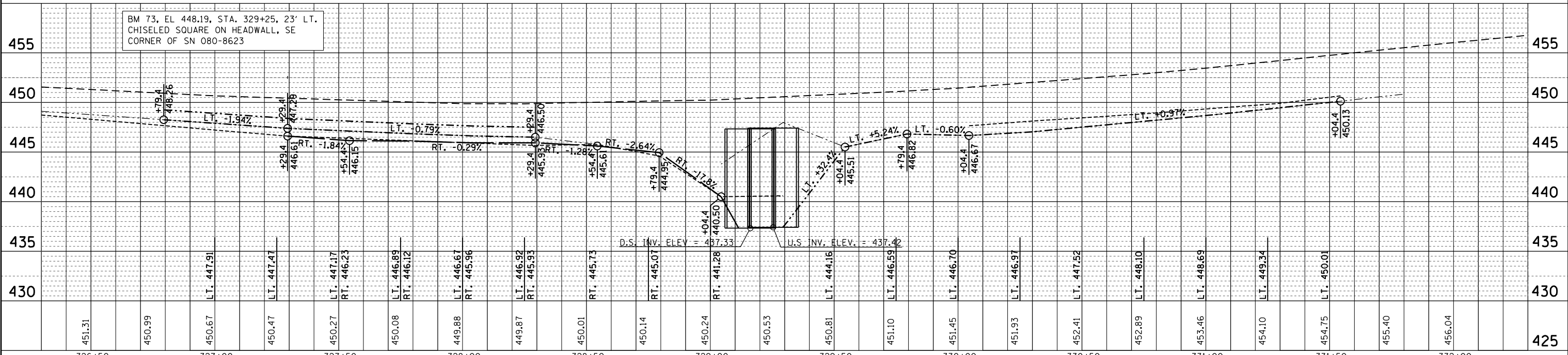
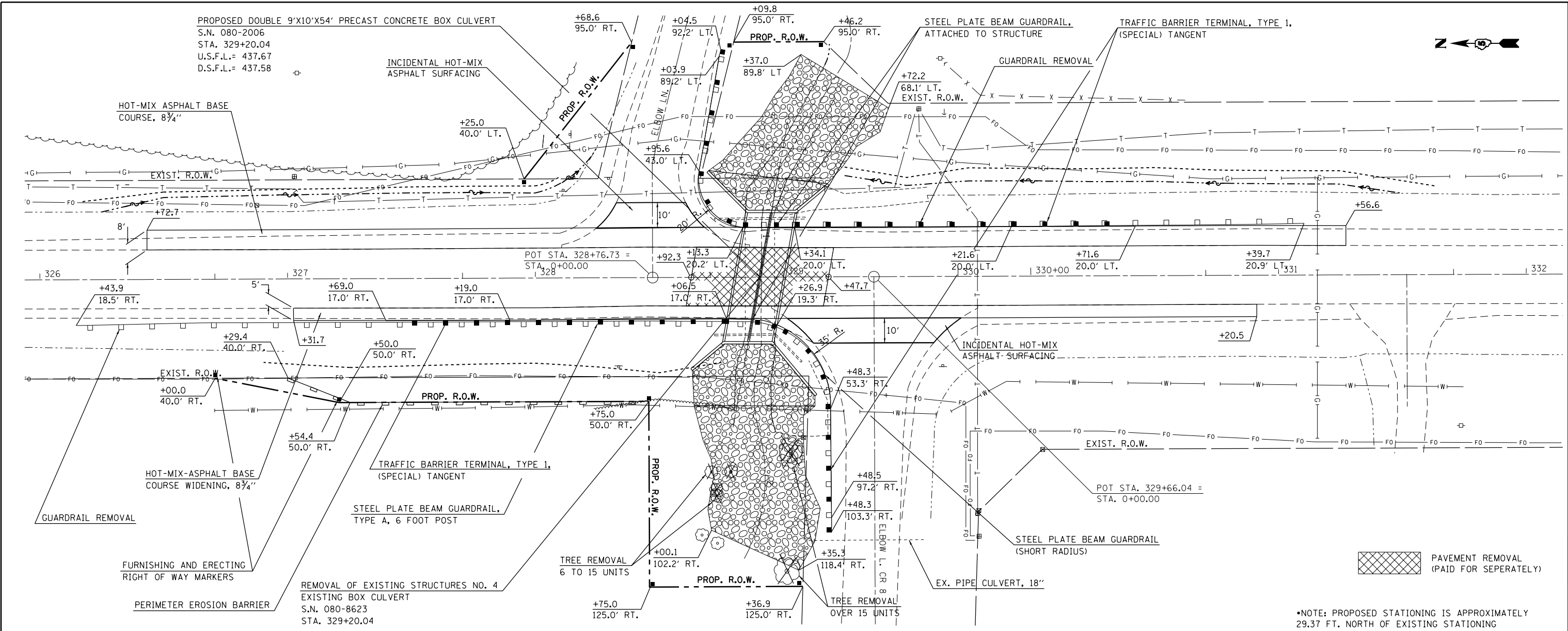
*NOTE: PROPOSED STATIONING IS APPROXIMATELY 29.37 FT. NORTH OF EXISTING STATIONING



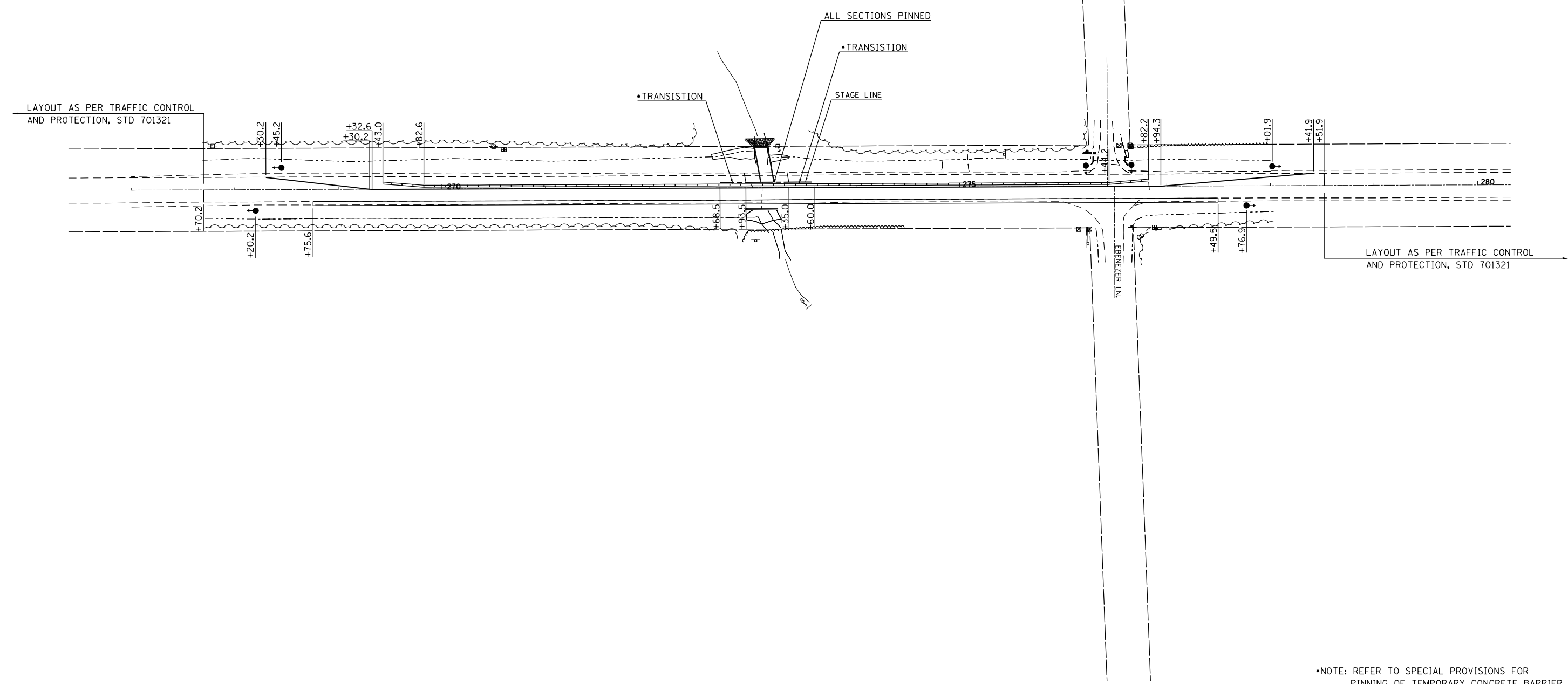
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| c:\pwork\pwork\teasleyck\d0339485\0774616-sht-planprof.dgn | DRAWN - | REVISED - | 116 | | | 1251 | RICHLAND | 198 | 24 | |
| Default | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |
| | | | | SCALE: 20 | SHEET 9 | OF 10 | SHEETS | STA. | TO STA. | |

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| SURVEYED | |
| PLANNED | |
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| FILE NAME | |

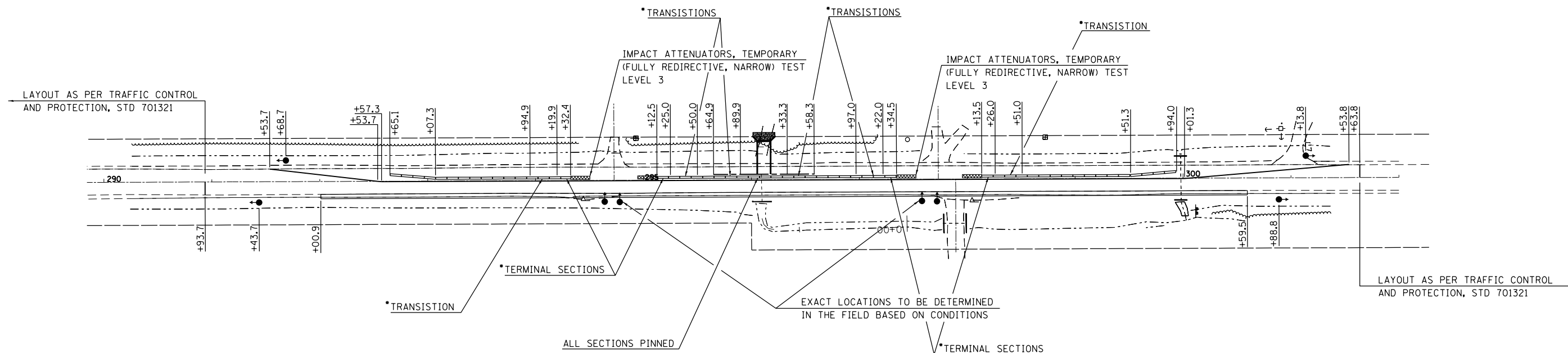
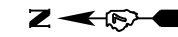


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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN - PROFILE S.N. 080-2006 | F.A.P. RT. = | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default | c:\pwork\pwork\teasleyck\d0339485\0774516-sht-planprof.dgn | DRAWN - | REVISED - | | | 116 | 1251 | RICHLAND | 198 | 25 |
| | PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | |



•NOTE: REFER TO SPECIAL PROVISIONS FOR PINNING OF TEMPORARY CONCRETE BARRIER

| | | | | | | | | | | | | | | |
|---|---|-----------------------|------------------------|---|---|---------|-------------|----------------|----------------|--------|-----------------|--------------|-----|----|
| FILE NAME = c:\pw\work\p\dot\teasleyck\d0339485\07 | USER NAME = teasleyck 4616-sh1-staging.dgn | DESIGNED - DRAWN - | REVISED - REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STAGE 1 PROPOSED S.N. 080-8644 | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - | | SCALE: 50 | SHEET 1 | OF 4 SHEETS | STA. 267+00 | TO STA. 280+00 | 116 | 125I | RICHLAND | 198 | 26 |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | CONTRACT NO. 74616 | | | | | | | | | |
| ILLINOIS FED. AID PROJECT | | | | | | | | | | | | | | |



*NOTE: REFER TO SPECIAL PROVISIONS FOR PINNING OF TEMPORARY CONCRETE BARRIER

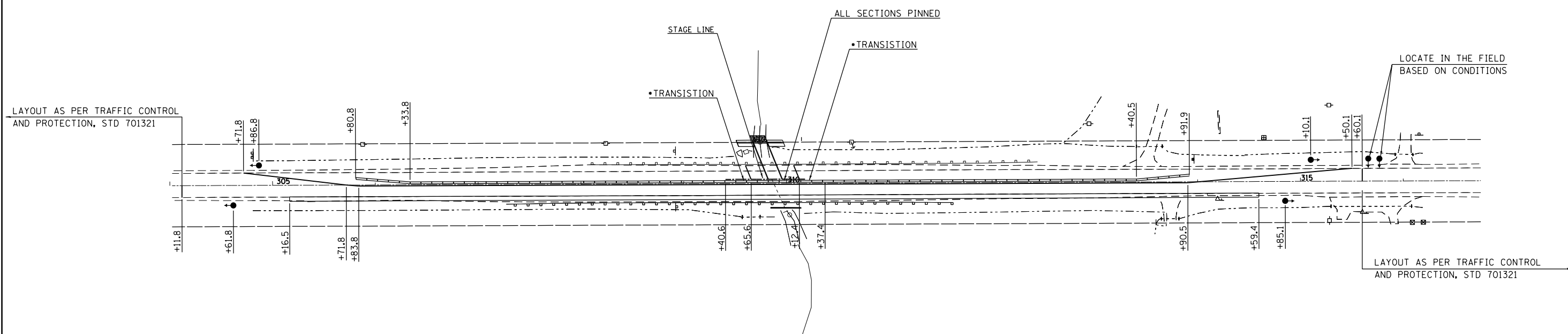
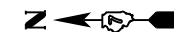
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| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1
PROPOSED S.N. 080-8643**

SCALE: 50 SHEET 2 OF 4 SHEETS STA. 290+00 TO STA. 302+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|--------------------|
| 116 | 125I | RICHLAND | 198 | 27 |
| | | | | CONTRACT NO. 74616 |
| ILLINOIS FED. AID PROJECT | | | | |



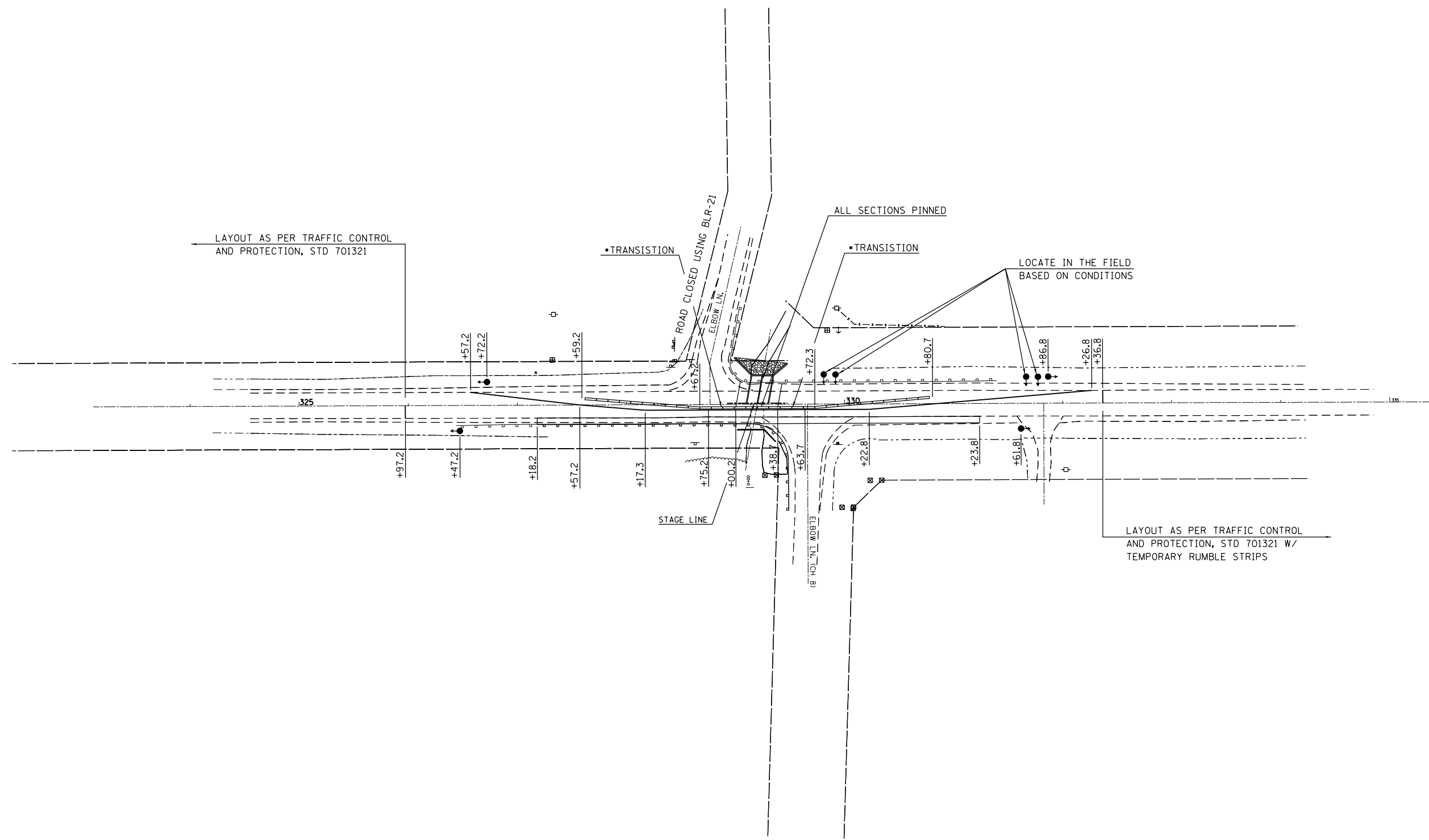
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| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1
PROPOSED S.N. 080-8642**

SCALE: 50 SHEET 3 OF 4 SHEETS STA. 304+00 TO STA. 317+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|---------------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 28 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |



*NOTE: REFER TO SPECIAL PROVISIONS FOR PINNING OF TEMPORARY CONCRETE BARRIER

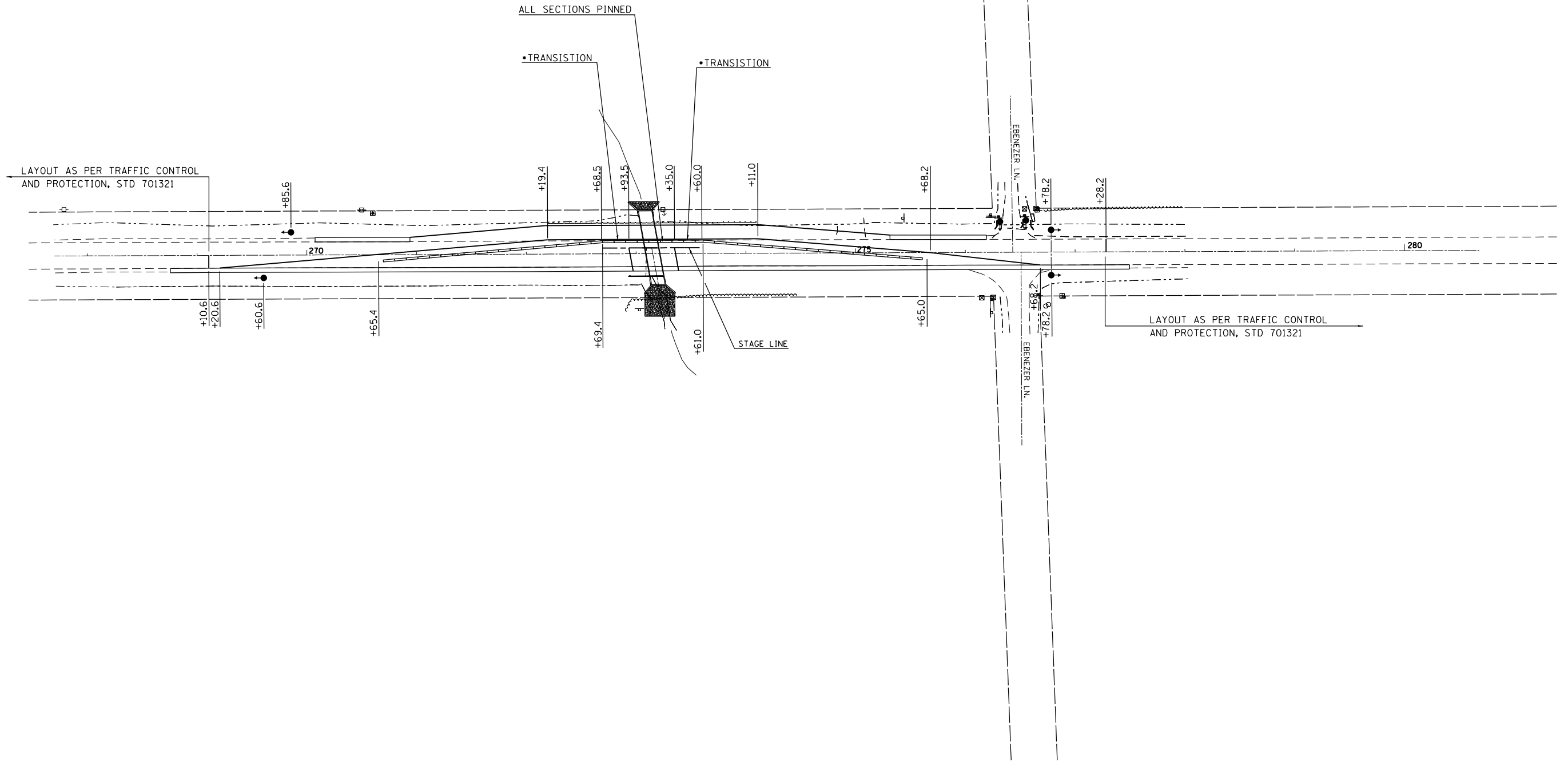
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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| ct:\pw\work\p\idot\teasleyck\d0339485\07 | 4616-shit-staging.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1
PROPOSED S.N. 080-2006**

SCALE: 50 SHEET 4 OF 4 SHEETS STA. 324+00 TO STA. 335+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 29 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



•NOTE: REFER TO SPECIAL PROVISIONS FOR
PINNING OF TEMPORARY CONCRETE BARRIER

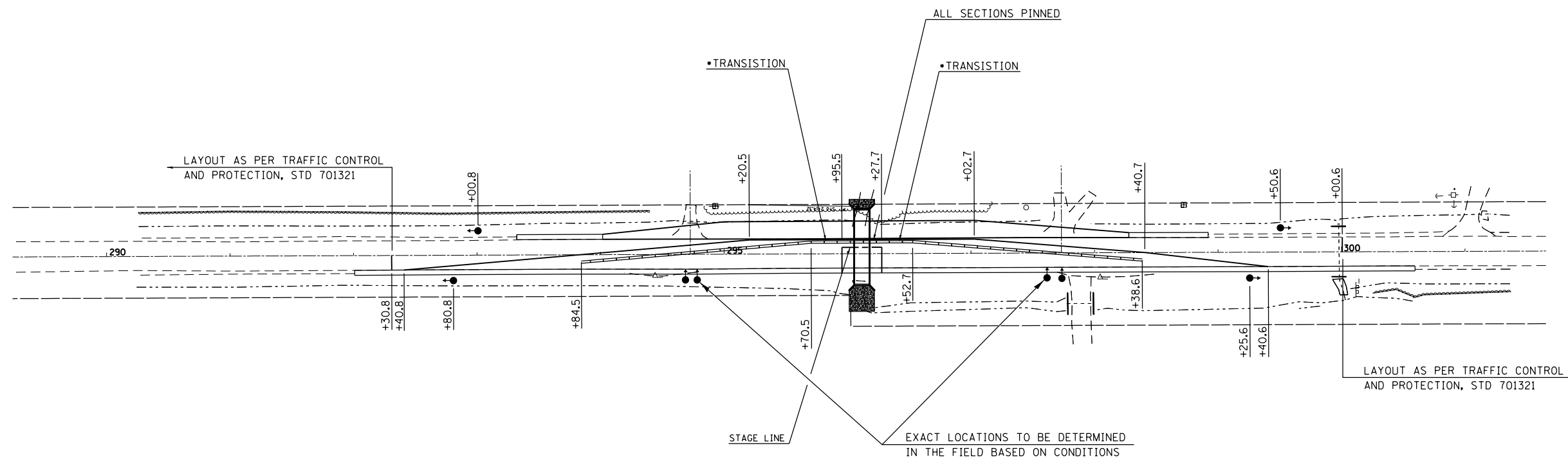
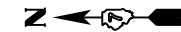
| | | | |
|--|--|-----------------------|------------------------|
| FILE NAME = c:\pwork\work\pwork\teasleyck\d0339485\07 | USER NAME = teasleyck 74616-sh1-staging.dgn | DESIGNED - DRAWN - | REVISED - REVISED - |
| Default | PLOT SCALE = 100.0000' / in. PLOT DATE = 12/16/2014 | CHECKED - DATE - | REVISED - REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2
PROPOSED S.N. 080-8644**

SCALE: 50 SHEET 1 OF 4 SHEETS STA. 268+00 TO STA. 280+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 30 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



•NOTE: REFER TO SPECIAL PROVISIONS FOR
PINNING OF TEMPORARY CONCRETE BARRIER

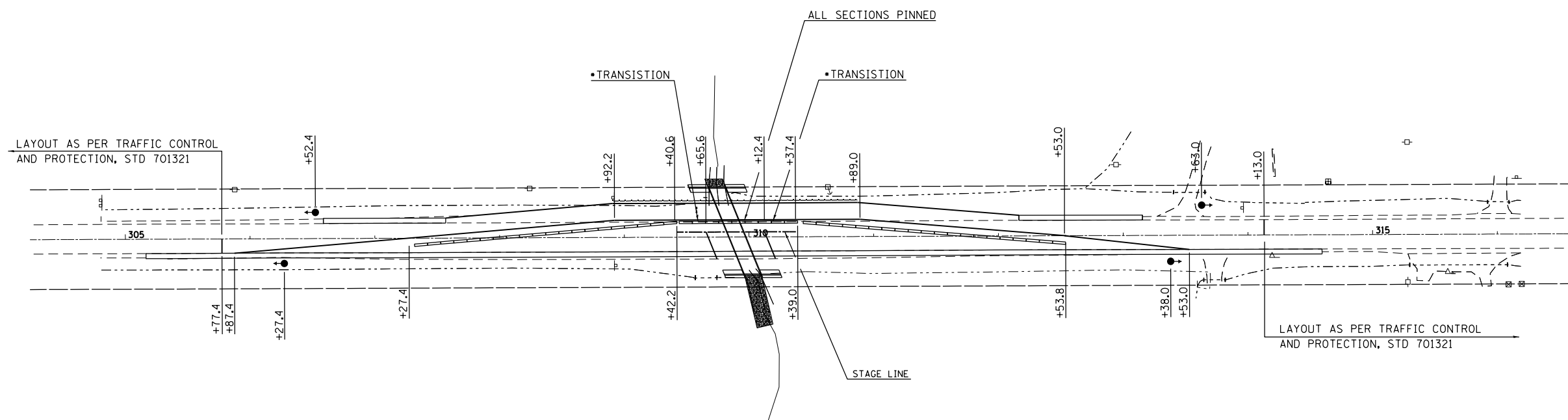
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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| c:\pwork\pwork\teasleyck\d0339485\07 | 4616-shit-staging.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2
PROPOSED S.N. 080-8643**

SCALE: 50 SHEET 2 OF 4 SHEETS STA. 290+00 TO STA. 302+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 31 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



•NOTE: REFER TO SPECIAL PROVISIONS FOR
PINNING OF TEMPORARY CONCRETE BARRIER

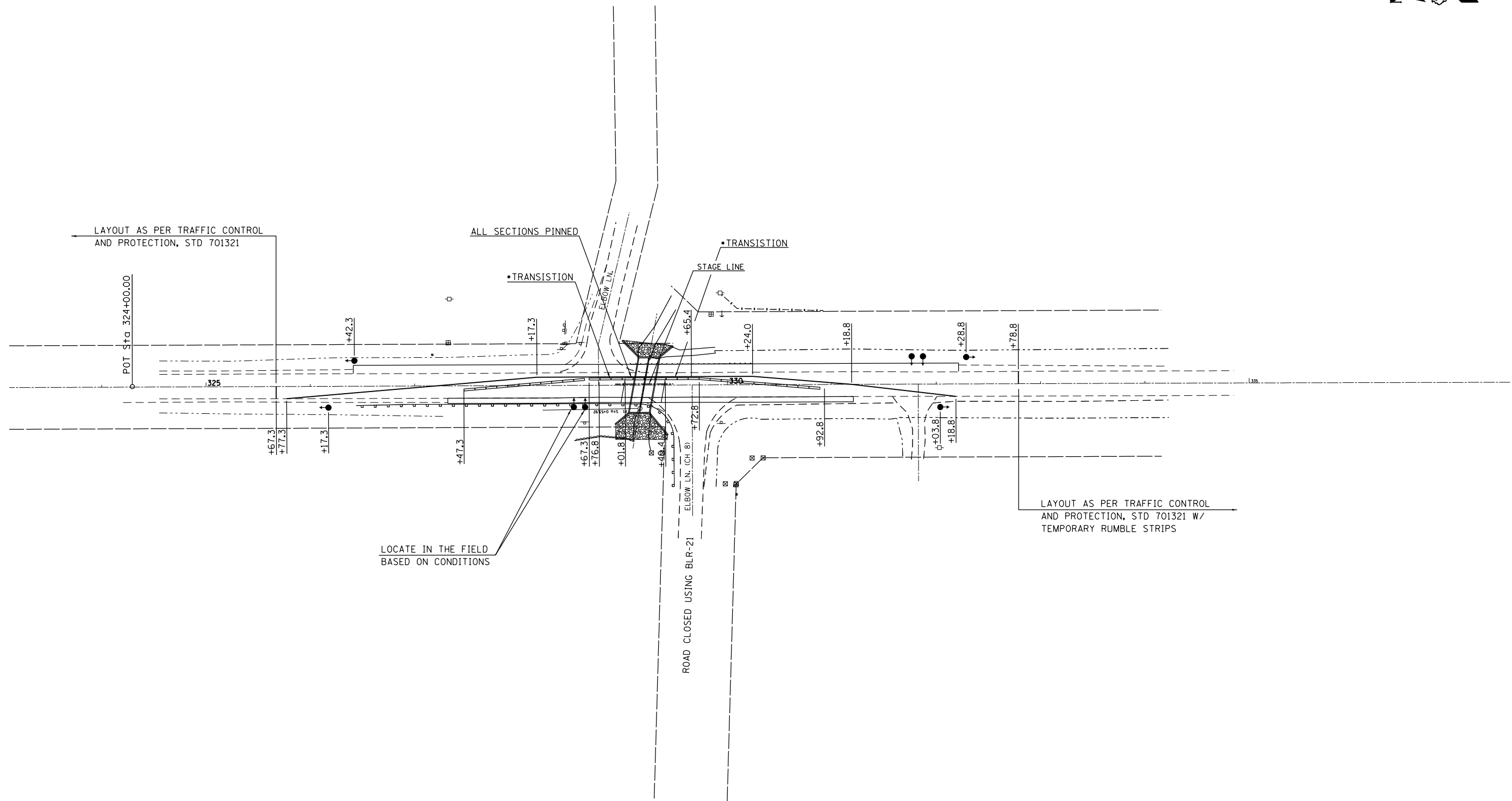
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| | 4616-shit-staging.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| Default | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2
PROPOSED S.N. 080-8642**

SCALE: 50 SHEET 3 OF 4 SHEETS STA. 305+00 TO STA. 317+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|---------------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 32 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |



•NOTE: REFER TO SPECIAL PROVISIONS FOR PINNING OF TEMPORARY CONCRETE BARRIER

| | | | |
|---|------------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| c:\pw\work\p\idot\teasleyck\d0339485\07 | 4616-shit-staging.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

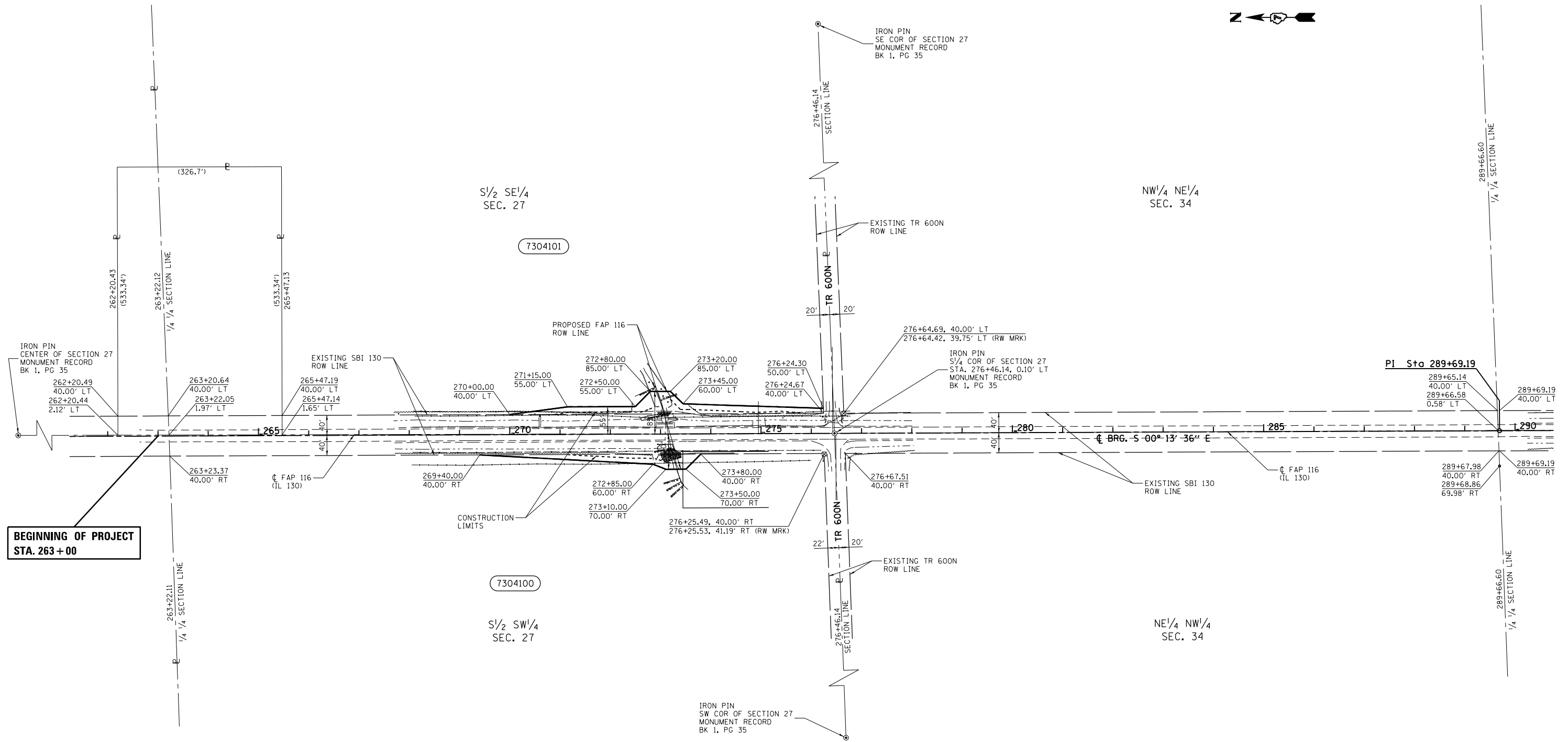
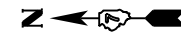
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2
PROPOSED S.N. 080-2006**

SCALE: 50 SHEET 4 OF 4 SHEETS STA. 324+00 TO STA. 335+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 33 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

T.3N.-R.10E., 3rd P.M., OLNEY TWP.



**BEGINNING OF PROJECT
STA. 263+00**

NOTE:
BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(107)
TEMPORARY EASEMENTS REQUIRED TO IMPROVE DRAINAGE AND AS A WORK AREA.

- ▲ - STONE
- - IRON PIN
- ⊙ - IRON PIN
- ⊗ - MAG NAIL
- ⊠ - ROW MARKER
- - FENCE POST
- (R) RECORDED DISTANCE
- TEMPORARY EASEMENT

| PARCEL | OWNER | AREA TAKEN | | EASEMENT | AREA REM | INST | RECORDED | | | | EXCESS | | |
|---------|---------------------------------------|------------|-----------|----------|------------|------|---------------|------|------|------|--------|------|--|
| | | ADD | EXIST | | | | MICRO FILM NO | DATE | BOOK | PAGE | AREA | SOLD | |
| 7304100 | NANCY L. WILLIAMS & SANDRA K. GAMMAGE | 0.132 AC. | 1.247 AC. | | 77.229 AC. | | | | | | | | |
| 7304101 | WALTER LEE & NANCY KOERTGE | 0.243 AC. | 0.991 AC. | | 76.118 AC. | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

FILE NAME = D774616-sht-rowplan.dgn

USER NAME = teasleyck
PLOT SCALE = 200.0000' / in.
PLOT DATE = 12/16/2014

DESIGNED - JMD
DRAWN - JMD
CHECKED - JMD
DATE - 09/11/13

REVISED -
REVISED -
REVISED -
REVISED -

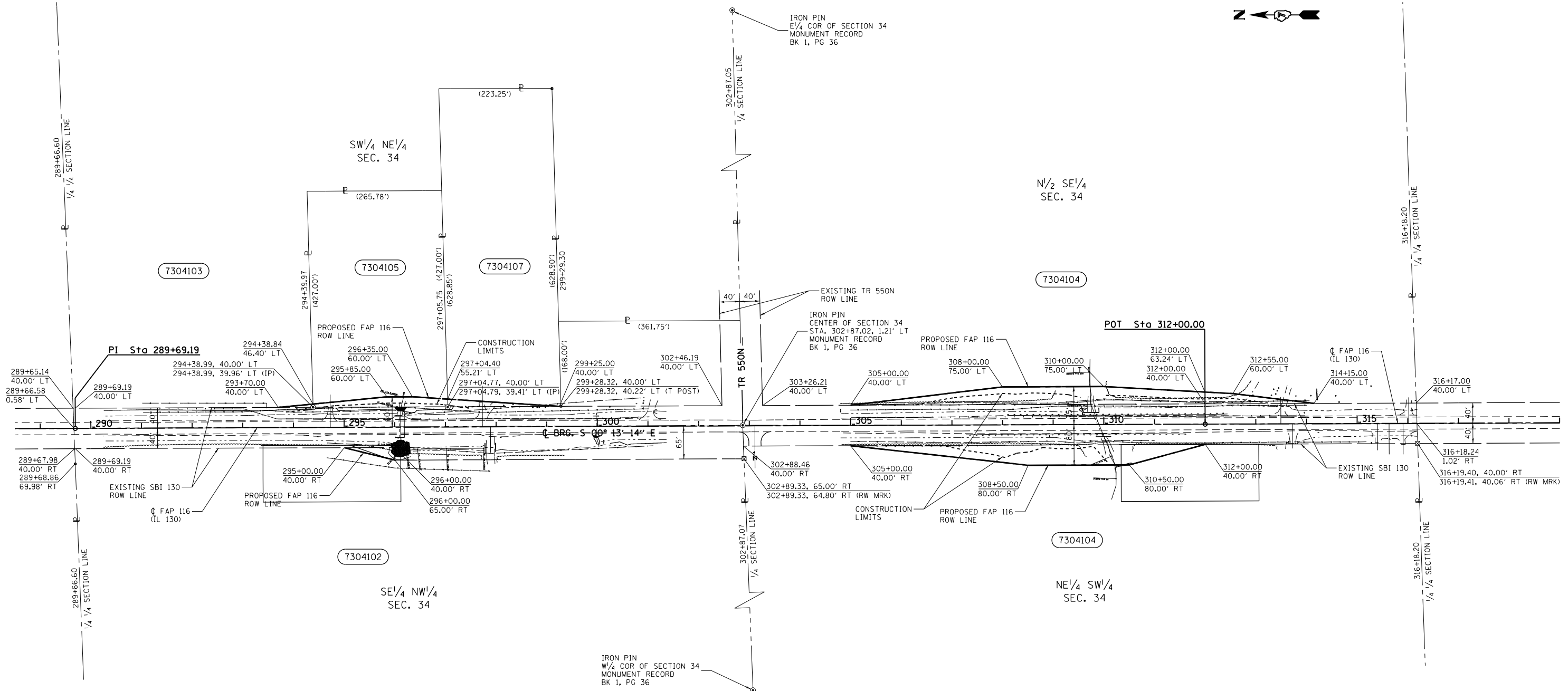
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT OF WAY PLANS

PROJECT: SHEET NO. 1 OF 3 SHEETS
JOB NO. R-97-004-13
STA. 263+00.00 TO STA. 290+00.00

F.A.P. RTE. 116
SECTION 1251
COUNTY RICHLAND
TOTAL SHEETS 198
SHEET NO. 34
CONTRACT NO. 74616
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

T.3N.-R.10E., 3rd P.M., MADISON TWP.



NOTE:

- ▲ - STONE
- ⊙ - IRON PIN
- ⊗ - MAG NAIL
- ⊠ - ROW MARKER
- - FENCE POST
- (R) RECORDED DISTANCE
- TEMPORARY EASEMENT

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(07)

TEMPORARY EASEMENTS REQUIRED TO IMPROVE DRAINAGE AND AS A WORK AREA.

| PARCEL | OWNER | AREA TAKEN | | EASEMENT | AREA REM | INST | RECORDED | | | | EXCESS | | |
|---------|----------------------------------|------------|-----------|----------|-------------|------|---------------|------|------|------|--------|------|--|
| | | ADD | EXIST | | | | MICRO FILM NO | DATE | BOOK | PAGE | AREA | SOLD | |
| 7304102 | DARREL SNIVELY & GAYLE SNIVELY | 0.029 AC. | 1.635 AC. | | 38.351 AC. | | | | | | | | |
| 7304103 | BERNARD E. EAGLETON, TRUSTEE | 0.005 AC. | 0.000 AC. | | 19.373 AC. | | | | | | | | |
| 7304104 | MILTON MICHAEL & LINDA L. MILLER | 0.893 AC. | 2.444 AC. | | 116.856 AC. | | | | | | | | |
| 7304105 | SHAWN D. & RAE ELLEN ROSE | 0.095 AC. | 0.000 AC. | | 2.509 AC. | | | | | | | | |
| 7304107 | CLIFFORD P. HUNT | 0.038 AC. | 0.000 AC. | | 3.186 AC. | | | | | | | | |

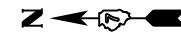
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| FILE NAME = D774616-sht-rowplan.dgn | USER NAME = teasleyck | DESIGNED - JMD | REVISED - |
| | | DRAWN - JMD | REVISED - |
| | | CHECKED - JMD | REVISED - |
| | | DATE - 09/12/13 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| RIGHT OF WAY PLANS | |
|-------------------------|----------------------------------|
| PROJECT | JOB NO. R-97-004-13 |
| SCALE: 1" = 100' | STA. 290+00.00 TO STA. 317+00.00 |
| SHEET NO. 2 OF 3 SHEETS | |

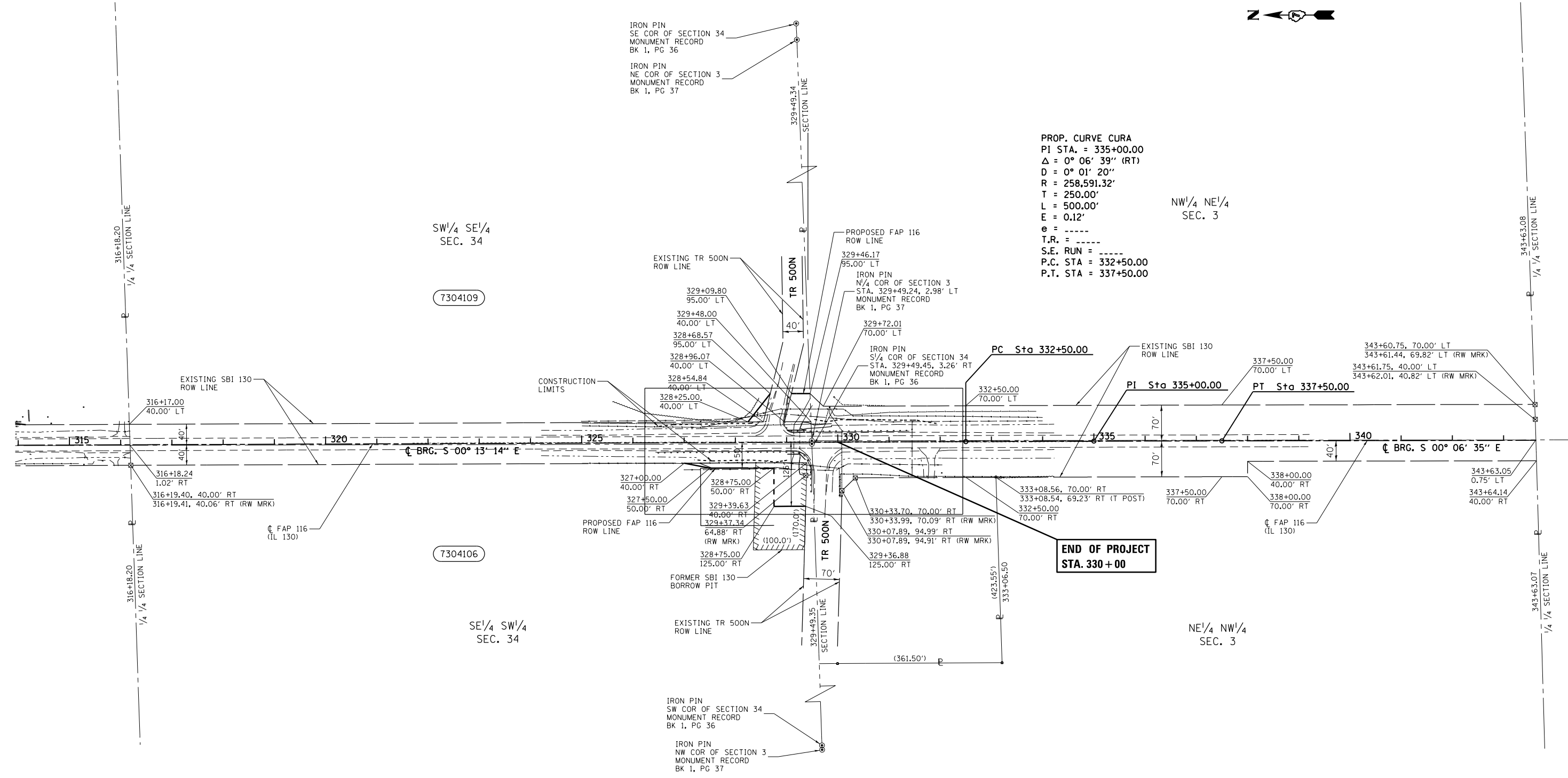
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|---|--------------|-----------------|--------------------|--------------|
| F.A.P. RTE. 116 | SECTION 1251 | COUNTY RICHLAND | TOTAL SHEETS 198 | SHEET NO. 35 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74616 | |

T.2&3N.-R.10E., 3rd P.M., MADISON TWP.



PROP. CURVE CURA
 PI STA. = 335+00.00
 $\Delta = 0^\circ 06' 39''$ (RT)
 $D = 0^\circ 01' 20''$
 $R = 258,591.32'$
 $T = 250.00'$
 $L = 500.00'$
 $E = 0.12'$
 $e = \text{-----}$
 $T.R. = \text{-----}$
 $S.E. RUN = \text{-----}$
 P.C. STA = 332+50.00
 P.T. STA = 337+50.00

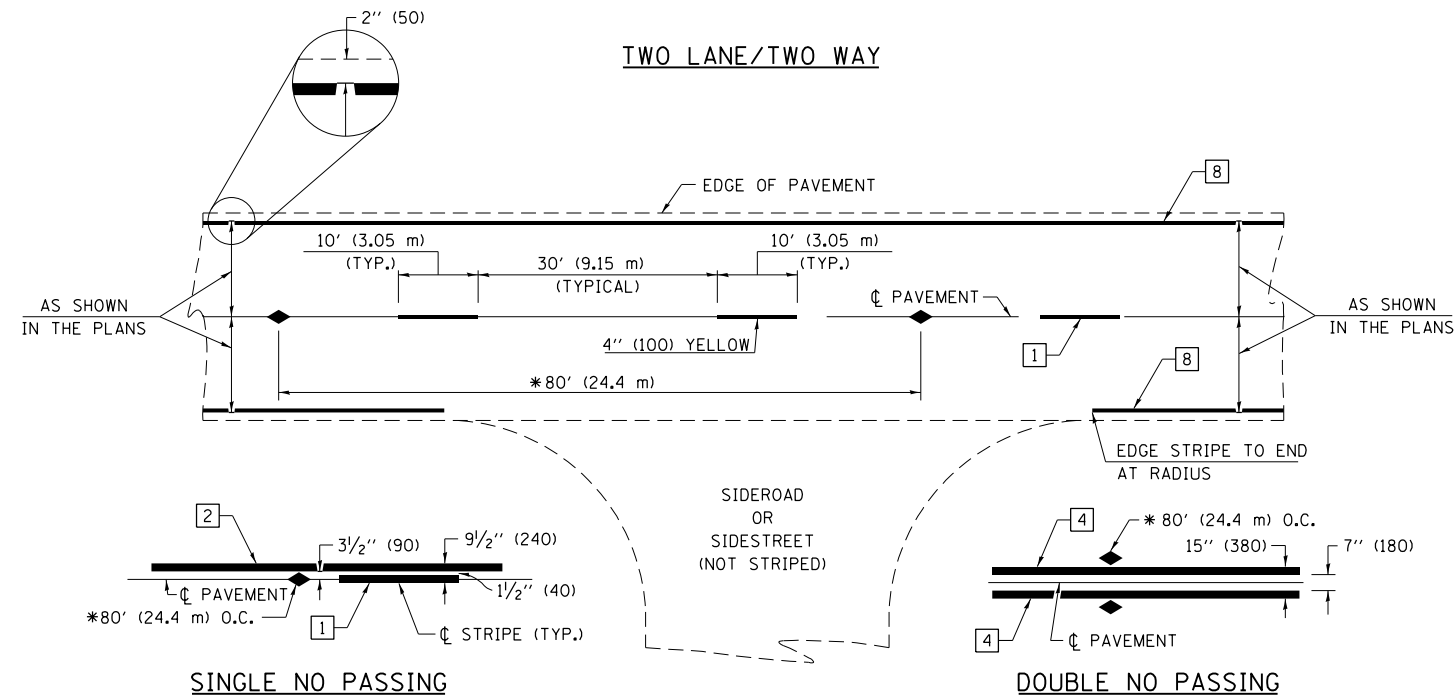
NW $\frac{1}{4}$ NE $\frac{1}{4}$
 SEC. 3



NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(107)
 TEMPORARY EASEMENTS REQUIRED TO IMPROVE DRAINAGE AND AS A WORK AREA.

- ▲ - STONE
- - IRON PIN
- ⊙ - MAG NAIL
- ⊠ - ROW MARKER
- - FENCE POST
- (R) RECORDED DISTANCE
- TEMPORARY EASEMENT

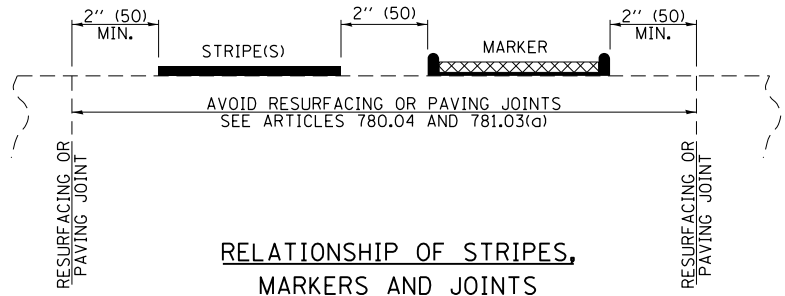
| PARCEL | OWNER | AREA TAKEN | | EASEMENT | AREA REM | INST | RECORDED | | | | EXCESS | | |
|---------|--|------------|-----------|----------|------------|------|---------------|------|------|------|--------|------|--|
| | | ADD | EXIST | | | | MICRO FILM NO | DATE | BOOK | PAGE | AREA | SOLD | |
| 7304106 | CARREL B. MAYFIELD & JEANNE MAYFIELD, TRUSTEES | 0.158 AC. | 1.183 AC. | | 39.080 AC. | | | | | | | | |
| 7304109 | GLENN H. & VERNA SHAFER | 0.074 AC. | 1.340 AC. | | 38.872 AC. | | | | | | | | |
| | | | | | | | | | | | | | |



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

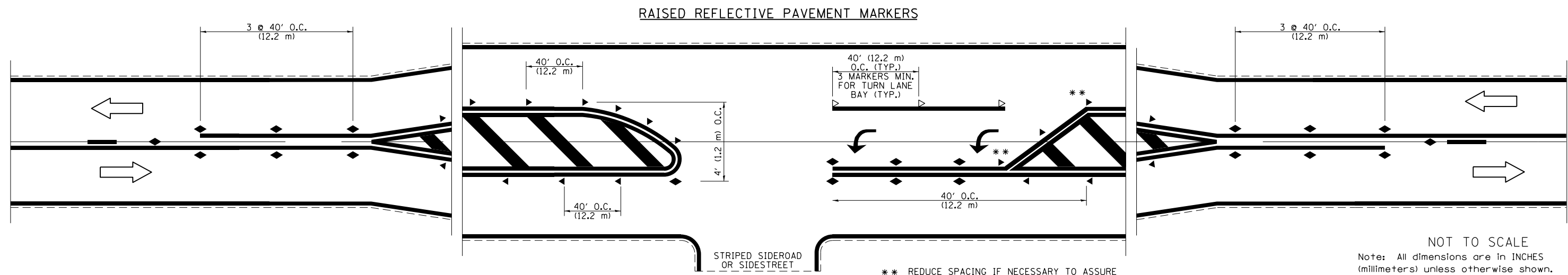
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

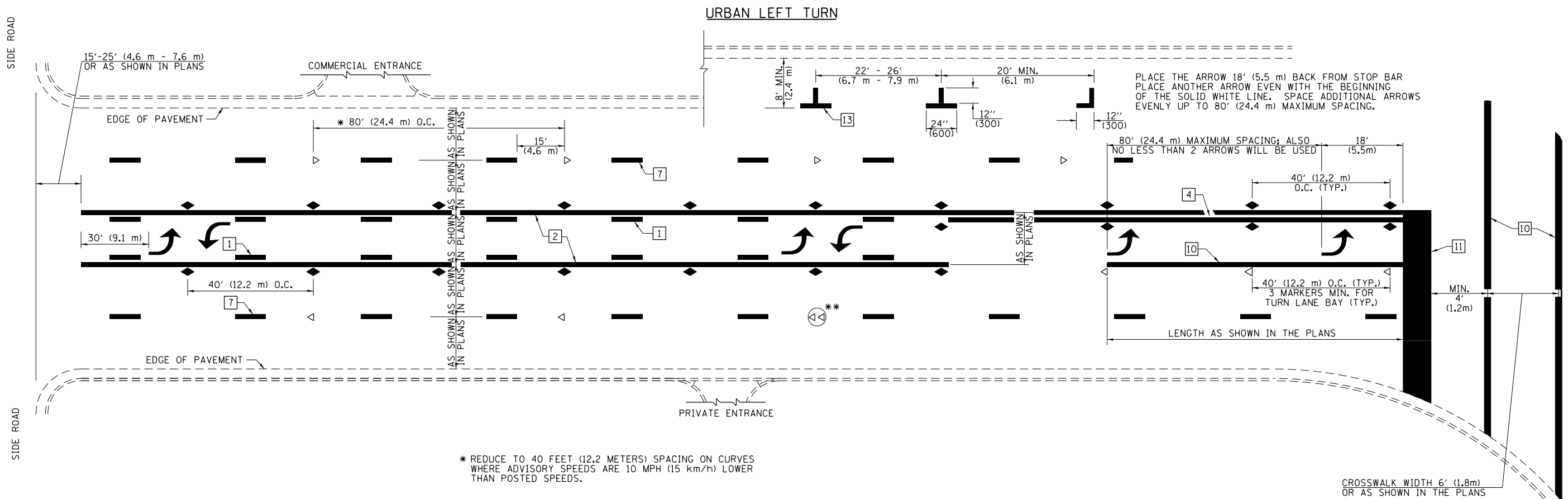
| | | | |
|---------------------------------------|------------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - |
| ei:\pwork\pwork\teasleyck\d0339485\07 | 4616-shit-details.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

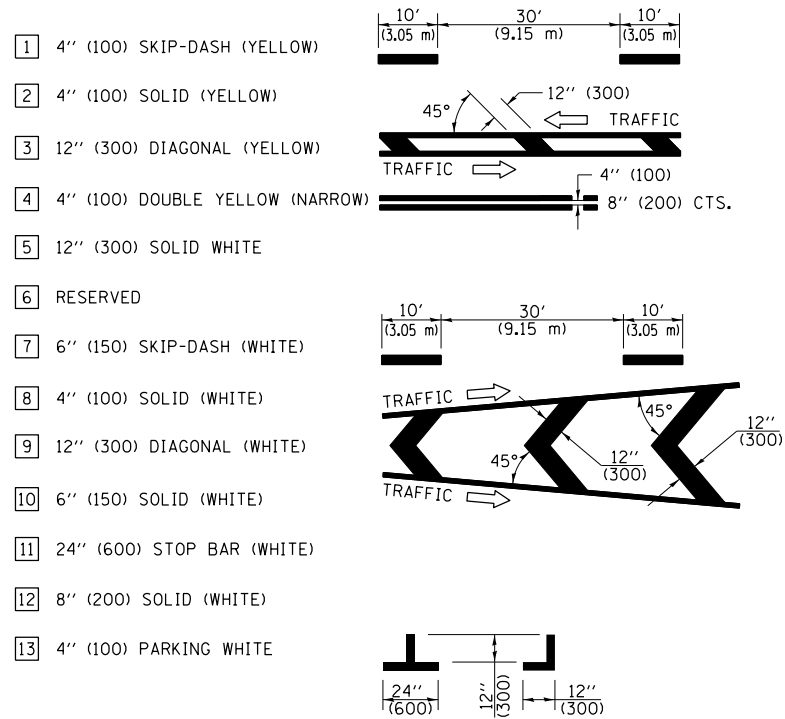
SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

| DISTRICT 7 DETAIL NO. 78000001 | | | | |
|--------------------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 37 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



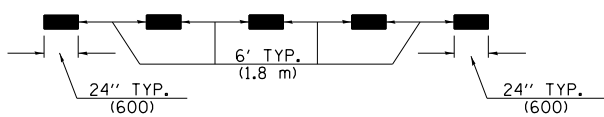
- * REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.
- ** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

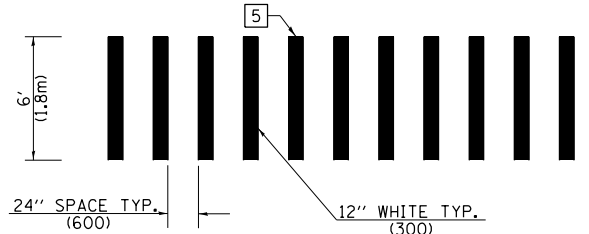


GENERAL NOTES

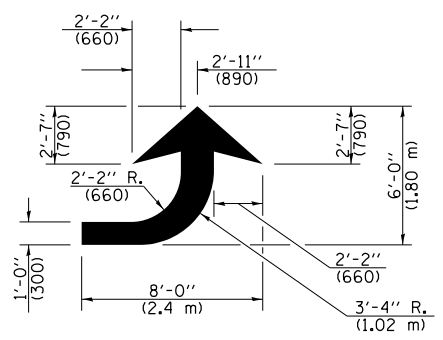
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

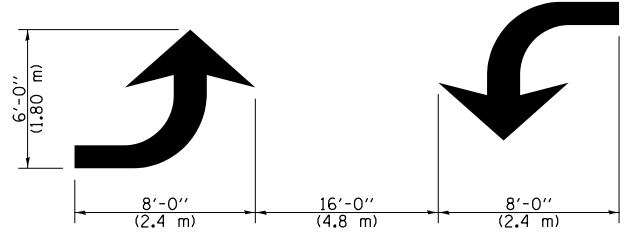


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



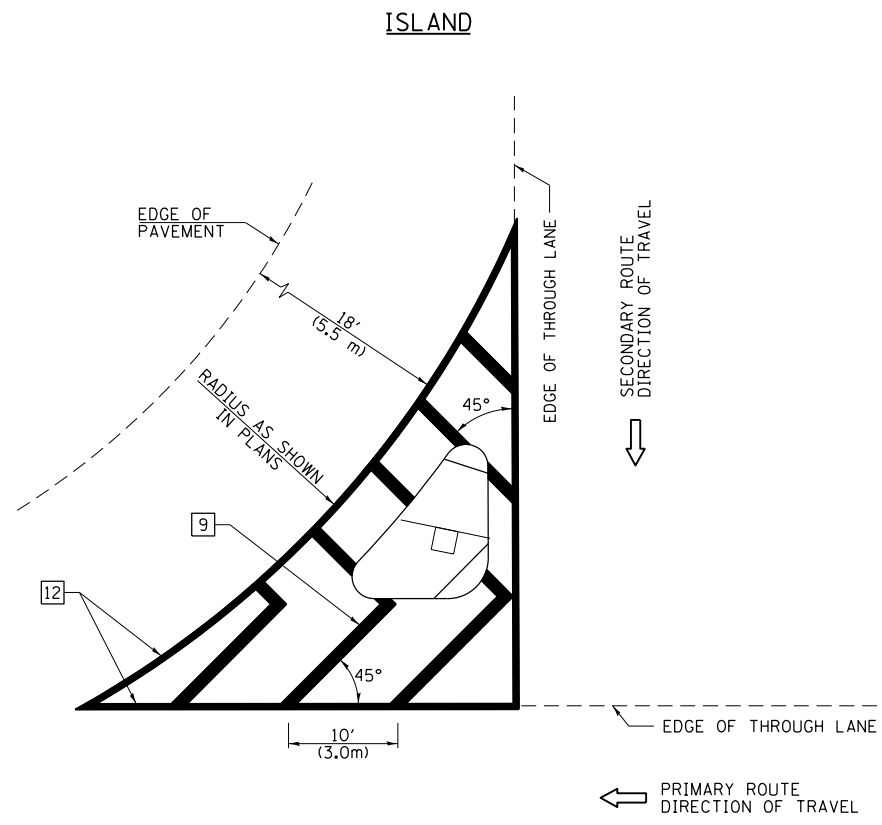
TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

| | | | | | | | | | | | |
|---|-----------------------------|------------|-----------|---|---|--|---------------------------|---------|----------|--------------|-----------|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS) | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ei:\pw\work\p\dot\teasleyck\d0339485\07 | 4616-shit-details.dgn | DRAWN - | REVISED - | | | | 116 | 1251 | RICHLAND | 198 | 38 |
| | PLOT SCALE = 100.0000' / 1" | CHECKED - | REVISED - | | | | CONTRACT NO. 74616 | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | |



GENERAL NOTES

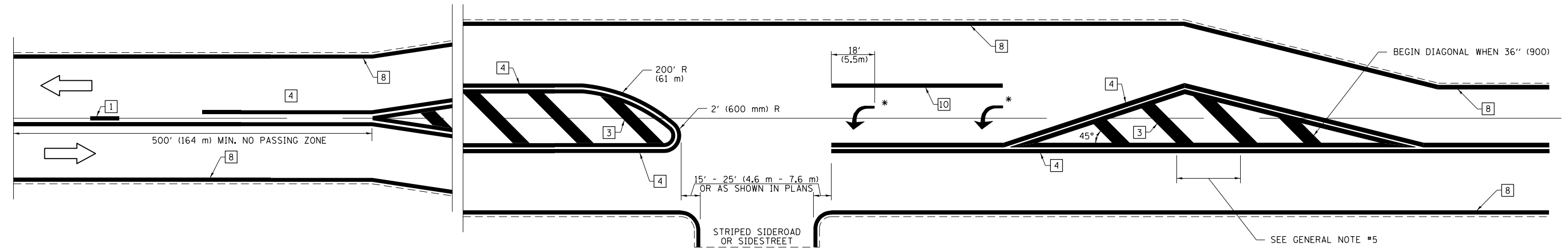
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

| | |
|------------------------|-------------|
| < 30 MPH (< 50 km/h) | 15' (4.5 m) |
| 30-45 MPH (50-75 km/h) | 20' (6.0 m) |
| > 45 MPH (> 75 km/h) | 30' (9.0 m) |

PAVEMENT MARKING LEGEND

| | |
|-------------------------------------|--|
| [1] 4" (100) SKIP-DASH (YELLOW) | |
| [2] 4" (100) SOLID (YELLOW) | |
| [3] 12" (300) DIAGONAL (YELLOW) | |
| [4] 4" (100) DOUBLE YELLOW (NARROW) | |
| [5] 12" (300) SOLID WHITE | |
| [6] RESERVED | |
| [7] 6" (150) SKIP-DASH (WHITE) | |
| [8] 4" (100) SOLID (WHITE) | |
| [9] 12" (300) DIAGONAL (WHITE) | |
| [10] 6" (150) SOLID (WHITE) | |
| [11] 24" (600) STOP BAR (WHITE) | |
| [12] 8" (200) SOLID (WHITE) | |
| [13] 4" (100) PARKING WHITE | |

RURAL LEFT TURN STRIPING



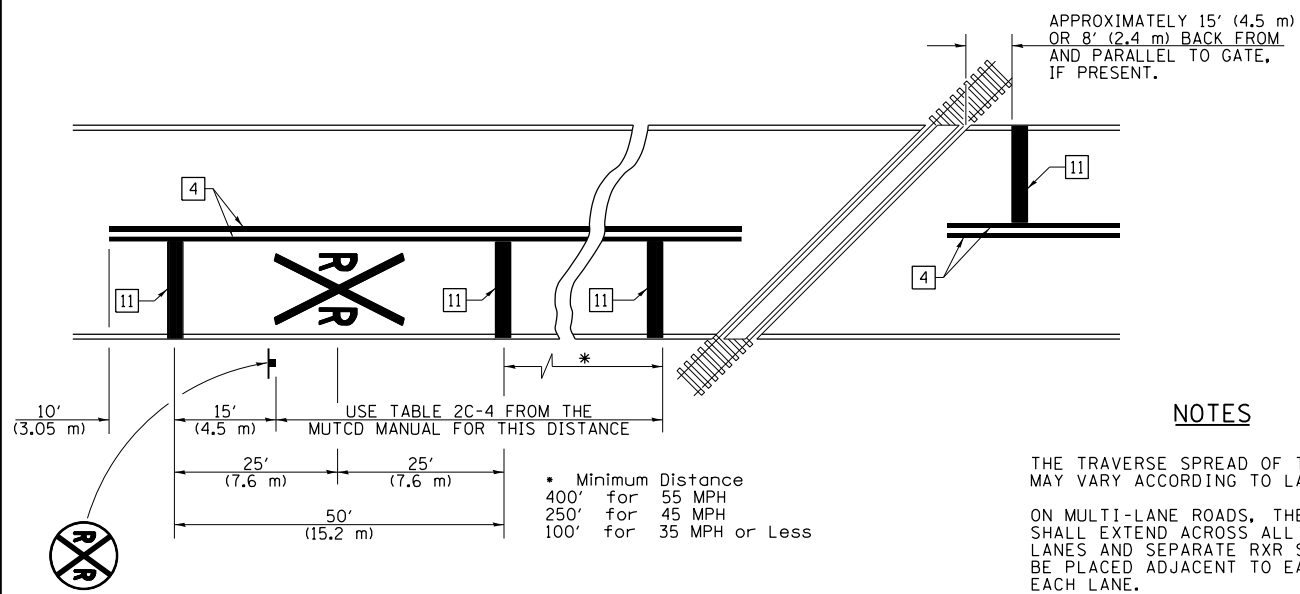
* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

| | | | | | | | | | | | |
|--|-------------------------------|------------|-----------|---|---|---------------------------|---------|----------|--------------|-----------|--|
| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS) | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| ci:\pw\work\p\idot\teasleyck\d0339485\07 | 4616-shr-details.dgn | DRAWN - | REVISED - | | | 116 | 1251 | RICHLAND | 198 | 39 | |
| | PLOT SCALE = 100.0000' / 1" = | CHECKED - | REVISED - | | | CONTRACT NO. 74616 | | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

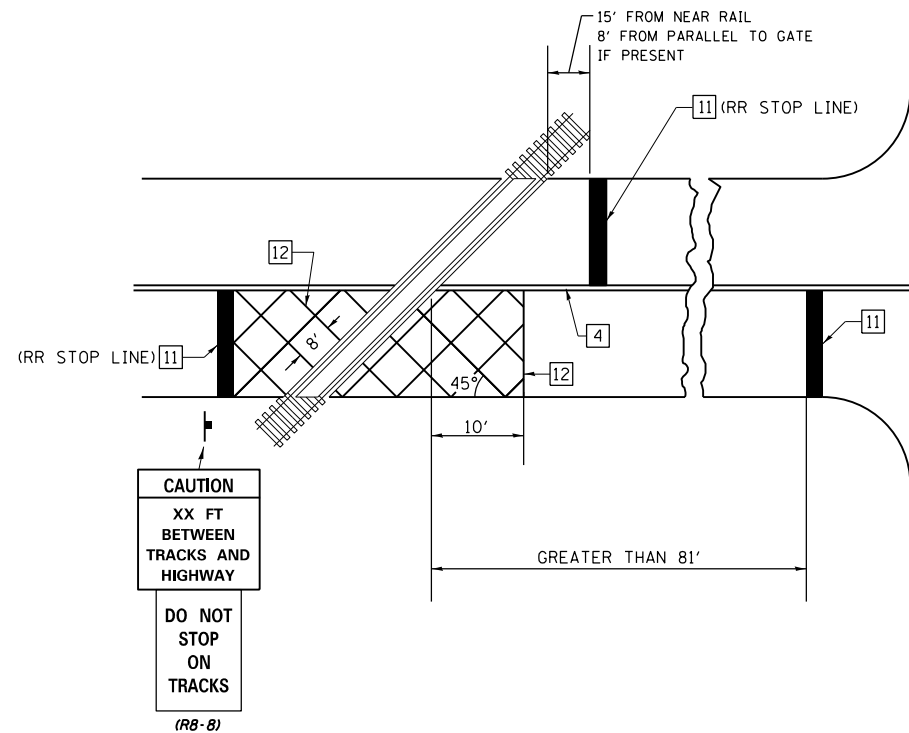
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE R X R SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

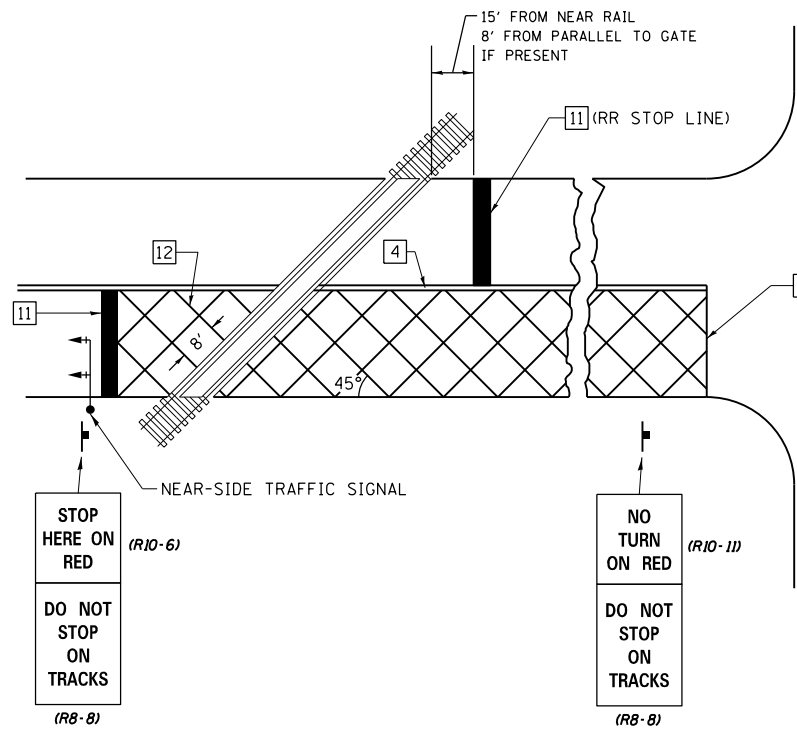
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

| | | | |
|--|-------------------------------|------------|-----------|
| FILE NAME = | USER NAME = teasleyk | DESIGNED - | REVISED - |
| ci:\pw\work\p\midot\teasleyk\d0339485\07 | 4616-sh1-details.dgn | DRAWN - | REVISED - |
| | PLOT SCALE = 100.0000' / 1in. | CHECKED - | REVISED - |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 40 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Bench Mark: BM B3 chiseled "X" on a rebar on the North end of the West headwall of S.N. 080-8626, Elevation 454.72

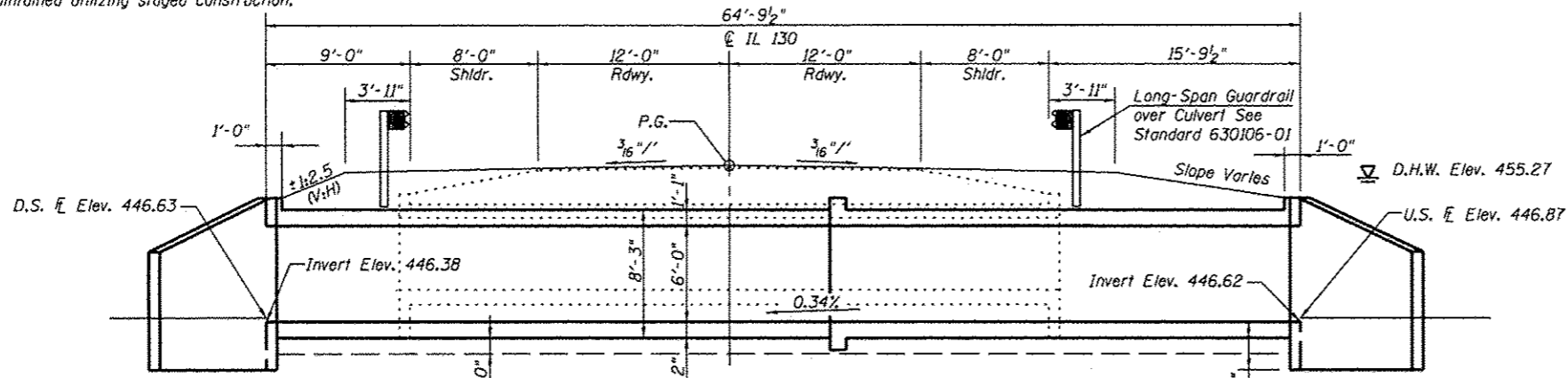
Existing Structure: S.N. 080-8626 was built as a single cell 12'-0" x 4'-6" R.C. Box Culvert with a culvert length of 41'-8".

Traffic to be maintained utilizing staged construction.

No Salvage

GENERAL NOTES

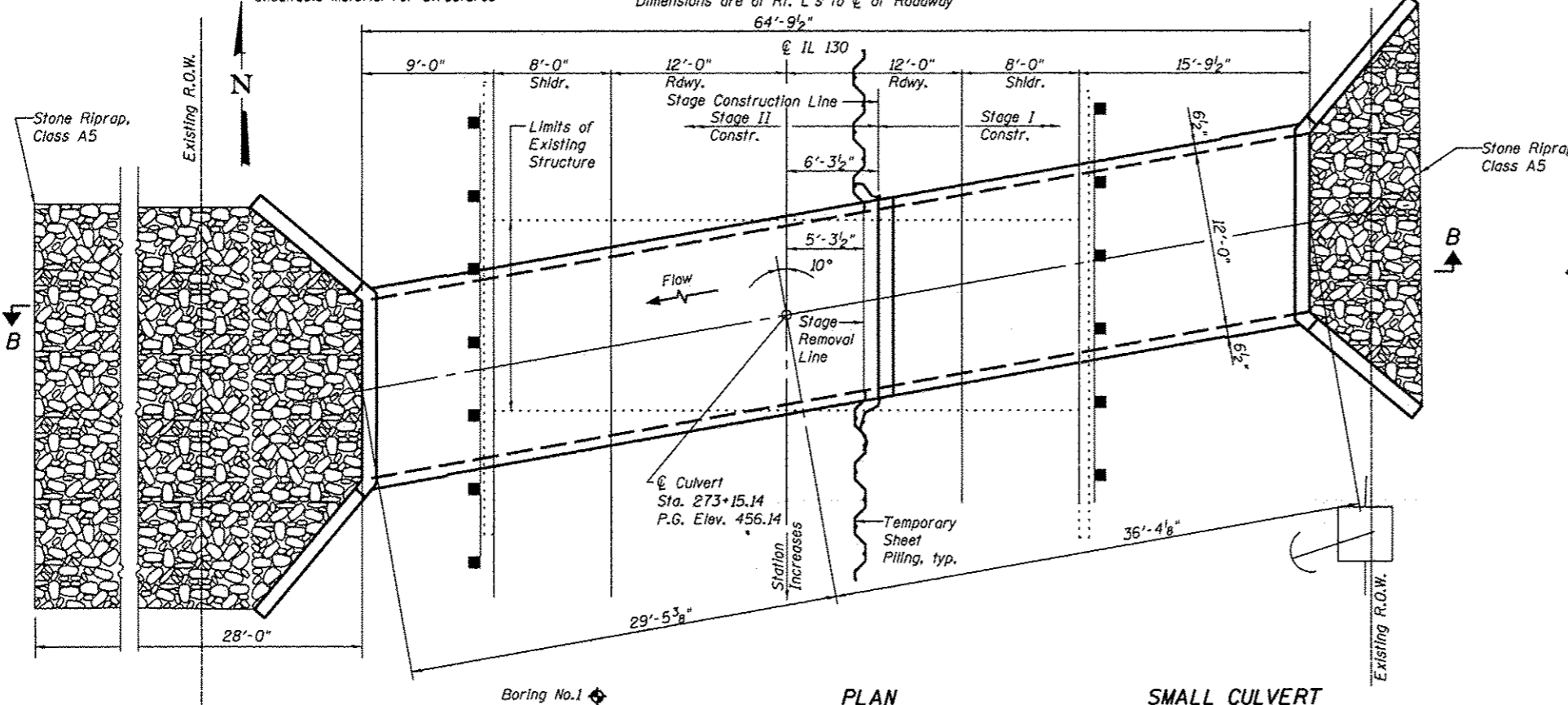
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Reinforcement bars designated (E) shall be epoxy coated.



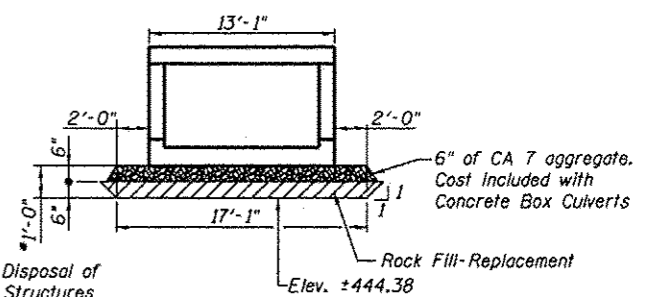
LONGITUDINAL SECTION
Dimensions are at Rt. L's to C of Roadway

TOTAL BILL OF MATERIAL

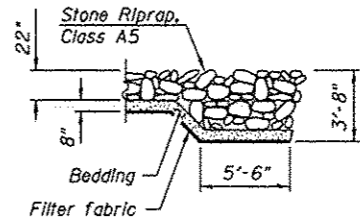
| ITEM | UNIT | TOTAL |
|--|---------|--------|
| Stone Riprap, Class A5 | Sq. Yd. | 96 |
| Filter Fabric | Sq. Yd. | 96 |
| Removal of Existing Structures | Each | 1 |
| Reinforcement Bars, Epoxy Coated | Pounds | 17,490 |
| Bar Splacers | Each | 90 |
| Concrete Box Culverts | Cu. Yd. | 107.0 |
| Temporary Sheet Piling | Sq. Ft. | 439 |
| Removal and Disposal of Unsuitable Material for Structures | Cu. Yd. | 43.9 |
| Rock Fill-Replacement | Ton | 36 |



PLAN



FILL DETAILS
(Dimensions at Rt. L's to C of Structure)



SECTION B-B

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HS 20-44 & TANDEM
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

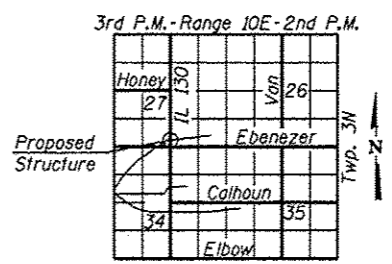
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SMALL CULVERT WATERWAY INFORMATION

Drainage Area = 0.49 Square Miles
Existing Low Grade Elevation: 456.01 @ Sta. 273+83
Proposed Low Grade Elevation: 456.01 @ Sta. 273+83

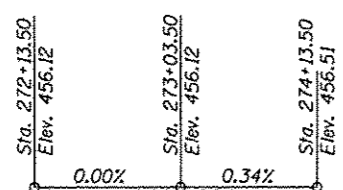
| Flood Year | Frequency | Discharge C.F.S. | Headwater Elev. (ft.) Exis. | Headwater Elev. (ft.) Prop. |
|------------|-----------|------------------|-----------------------------|-----------------------------|
| 10-Year | 10 | 386 | 454.05 | 452.69 |
| Design | 50 | 656 | 456.31 | 455.27 |
| Base | 100 | 782 | 456.44 | 456.18 |
| Max. Calc. | 500 | | | |

10-Year Velocity through Existing Culvert = 12.4 fps
10-Year Velocity through Proposed Culvert = 9.1 fps



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 130 OVER
TRIB. TO TURKEY CREEK
F.A.P. ROUTE 116 - SEC. 1251
RICHLAND COUNTY
STATION 273+15.14
S.N. 080-8644



PROFILE GRADE

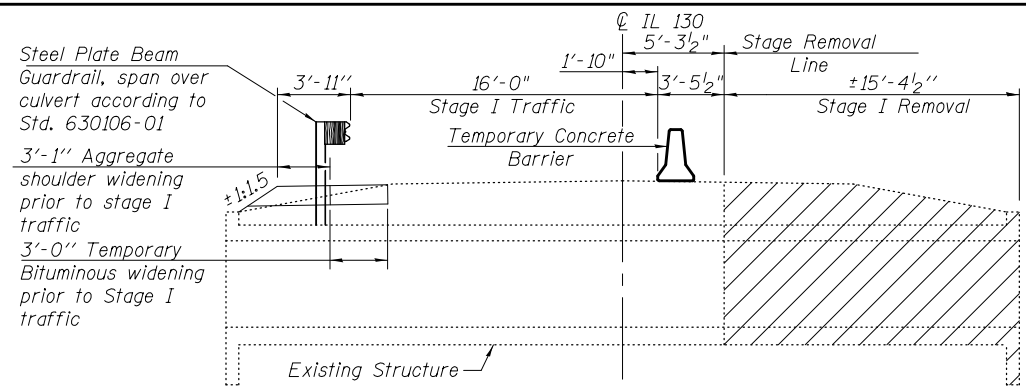
STATE OF ILLINOIS
WILLIAM J. VEGRYN
4983 HANOVER PARK
LICENSED STRUCTURAL ENGINEER
12-10-14
Expires 11-30-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

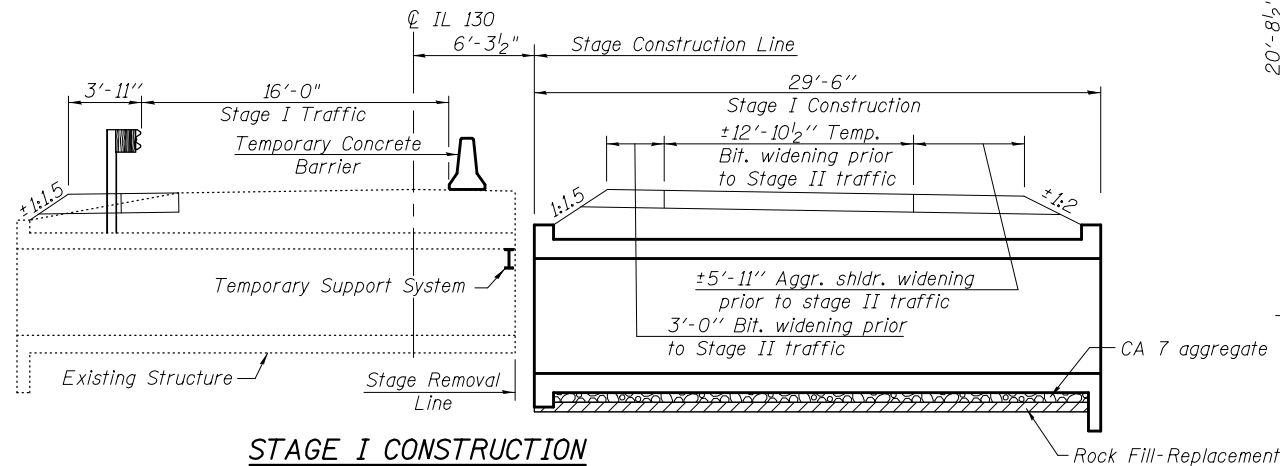
SHEET NO. 1 OF 6 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 41 |

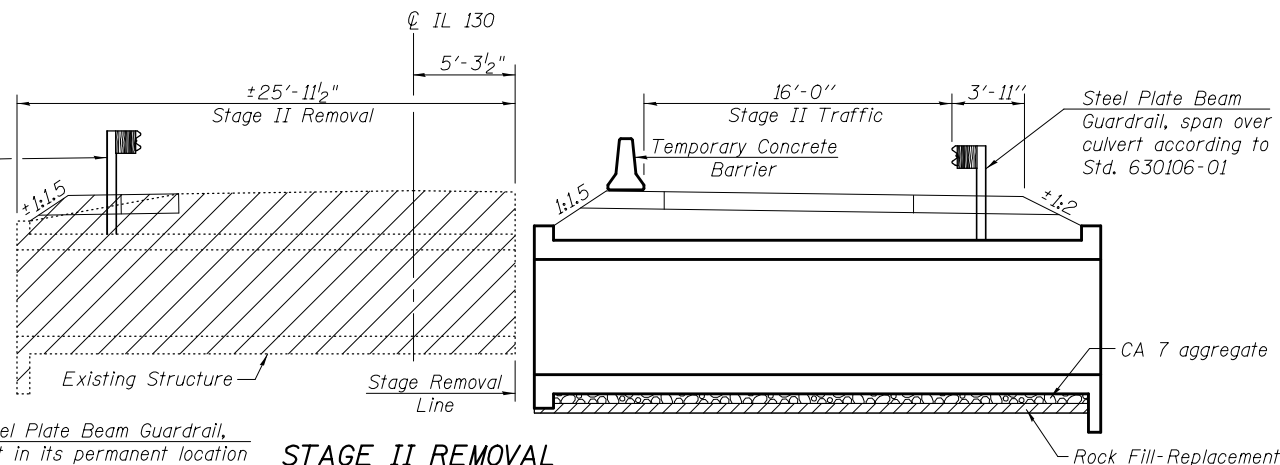
CONTRACT NO. 74616
ILLINOIS FED. AID PROJECT



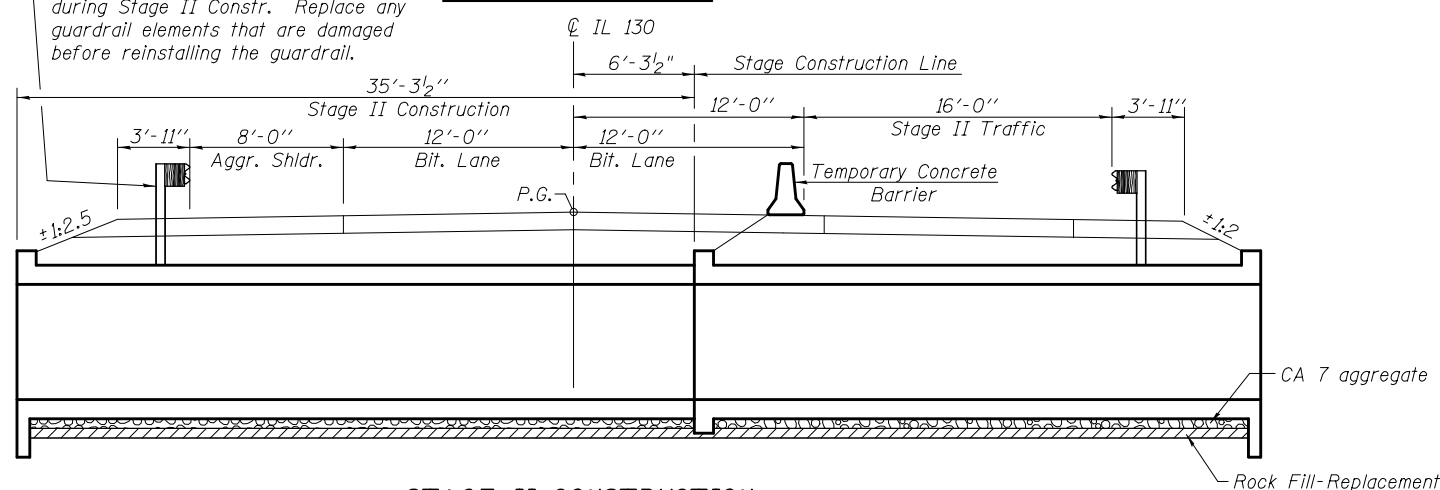
STAGE I REMOVAL



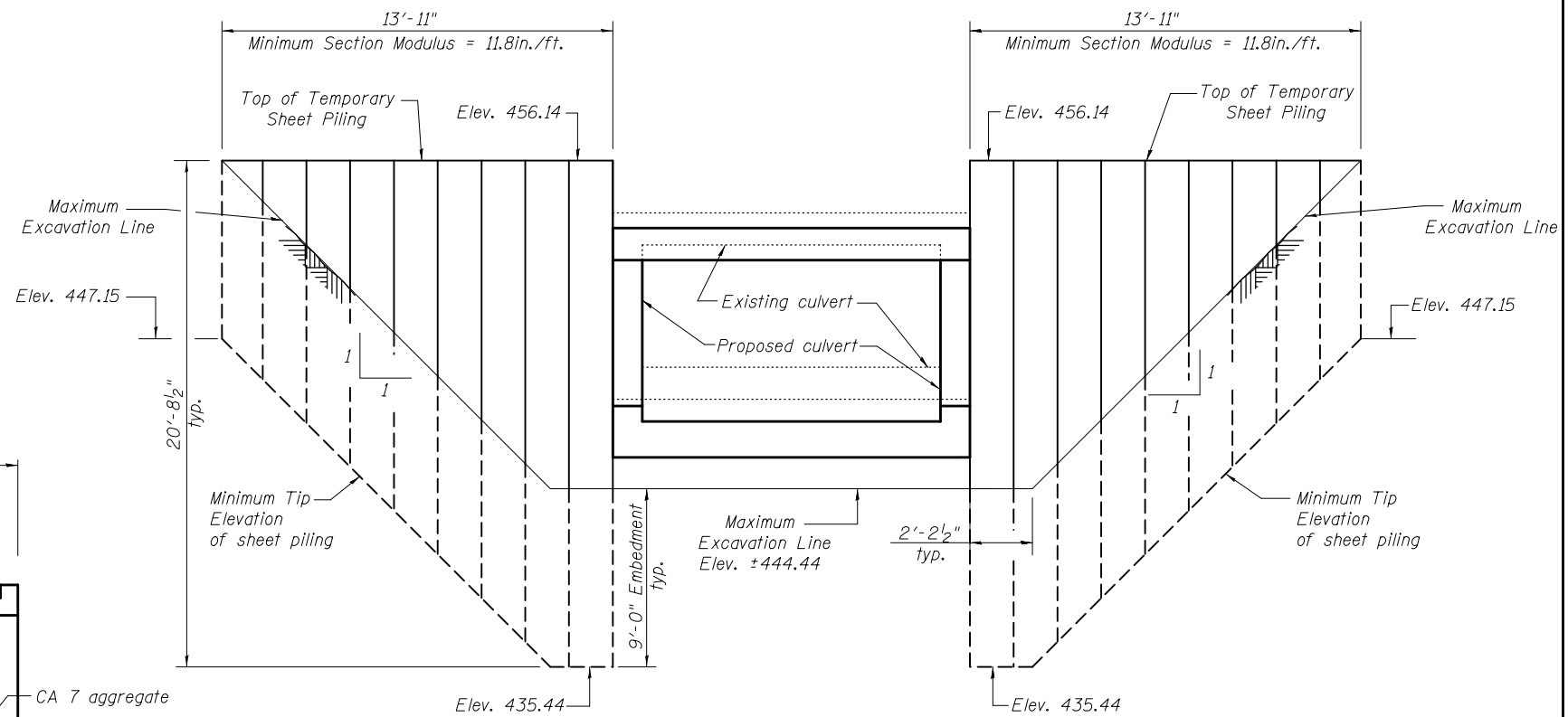
STAGE I CONSTRUCTION



STAGE II REMOVAL



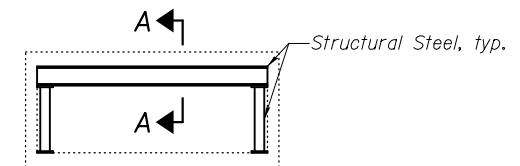
STAGE II CONSTRUCTION



TEMPORARY SHEET PILING

(Looking along Stage Construction Line)

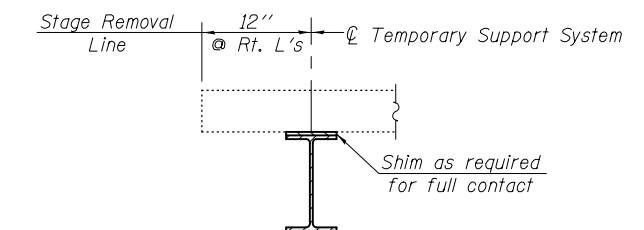
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



TEMPORARY SUPPORT SYSTEM

Notes:

1. Place Temporary Support prior to Stage I Removal
2. Place Temporary Support along skew
3. Temporary Support System shall not be painted



SECTION A-A

Notes:

1. Hatched area indicates Removal of Existing Structures
2. All staging cross sections are looking north.
3. All dimensions are perpendicular to \odot Roadway unless noted otherwise.
4. For details of Temporary Concrete Barrier, see sheet 5 of 6.
5. For quantity of Temporary Concrete Barrier, see Roadway Plans.
6. Contractor shall brace the Rock Fill-Replacement if required during excavation for Stage II Construction. Cost included with Rock Fill-Replacement.



| | | |
|--------------|----------------|---------|
| USER NAME = | DESIGNED - WJV | REVISOR |
| PLOT SCALE = | CHECKED - CCF | REVISOR |
| PLOT DATE = | DRAWN - CCF | REVISOR |
| | CHECKED - WJV | REVISOR |

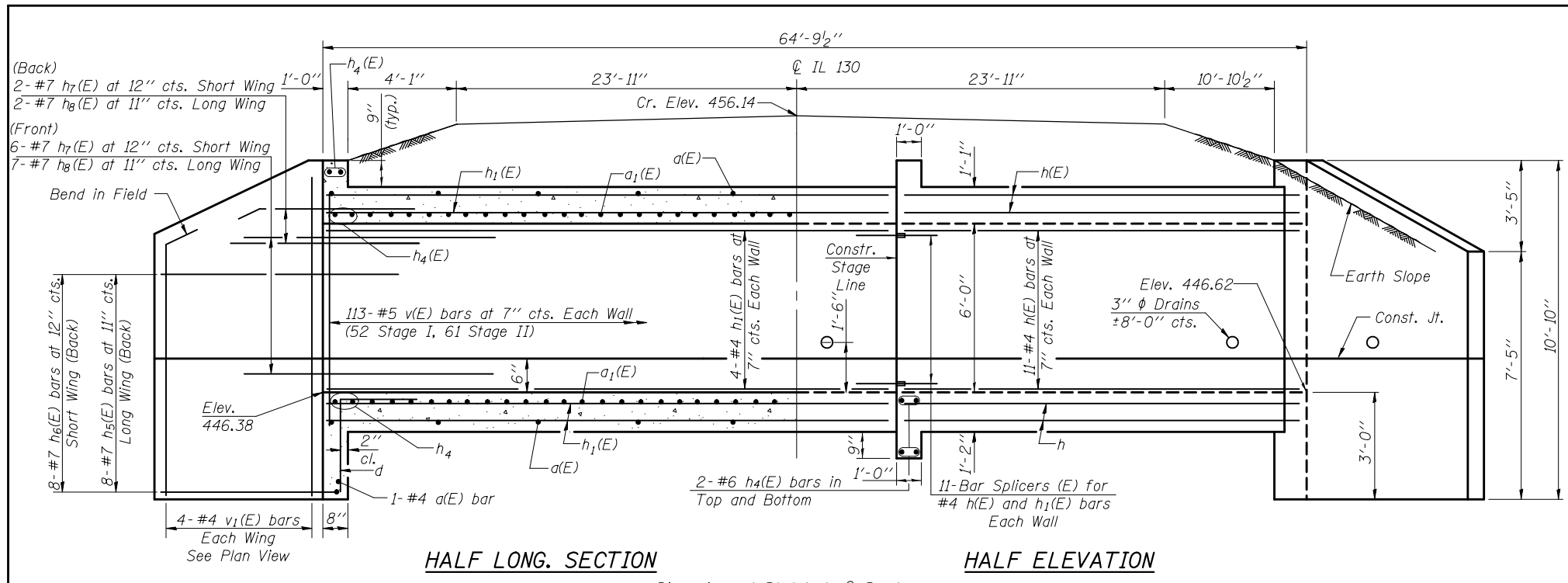
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 080-8644

SHEET NO. 2 OF 6 SHEETS

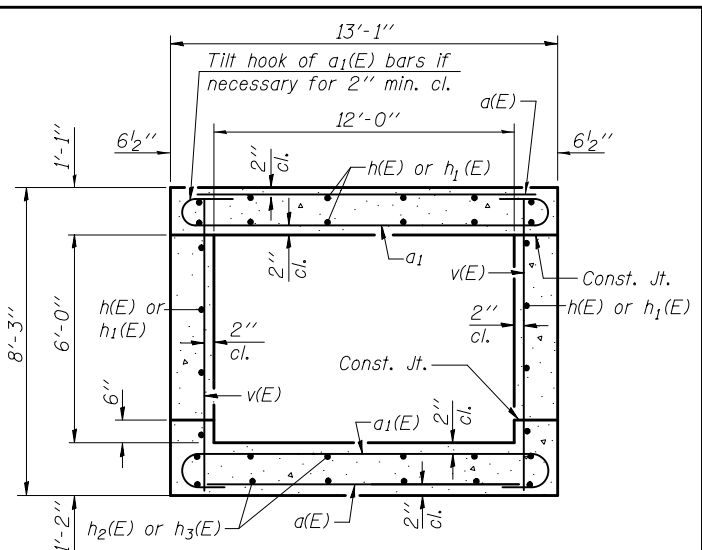
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 42 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

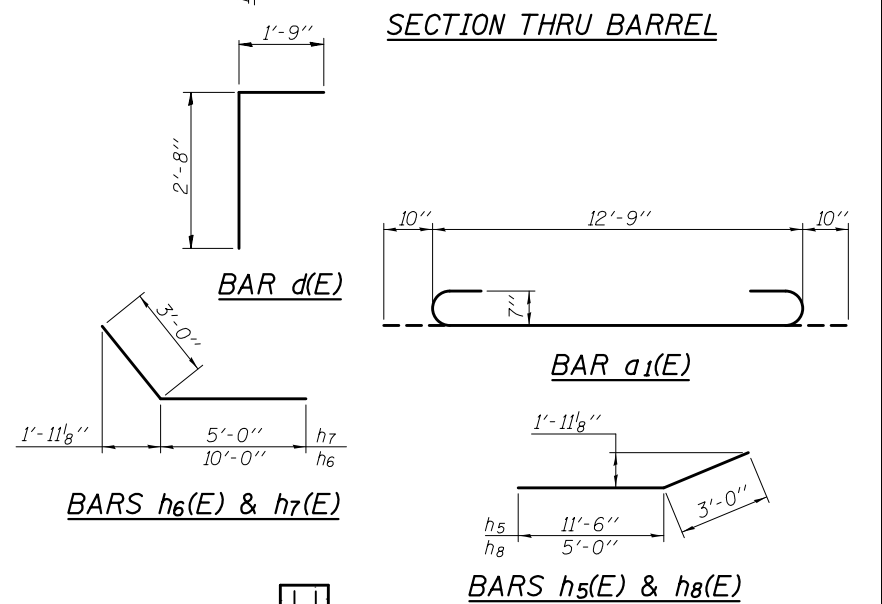


HALF LONG. SECTION

HALF ELEVATION

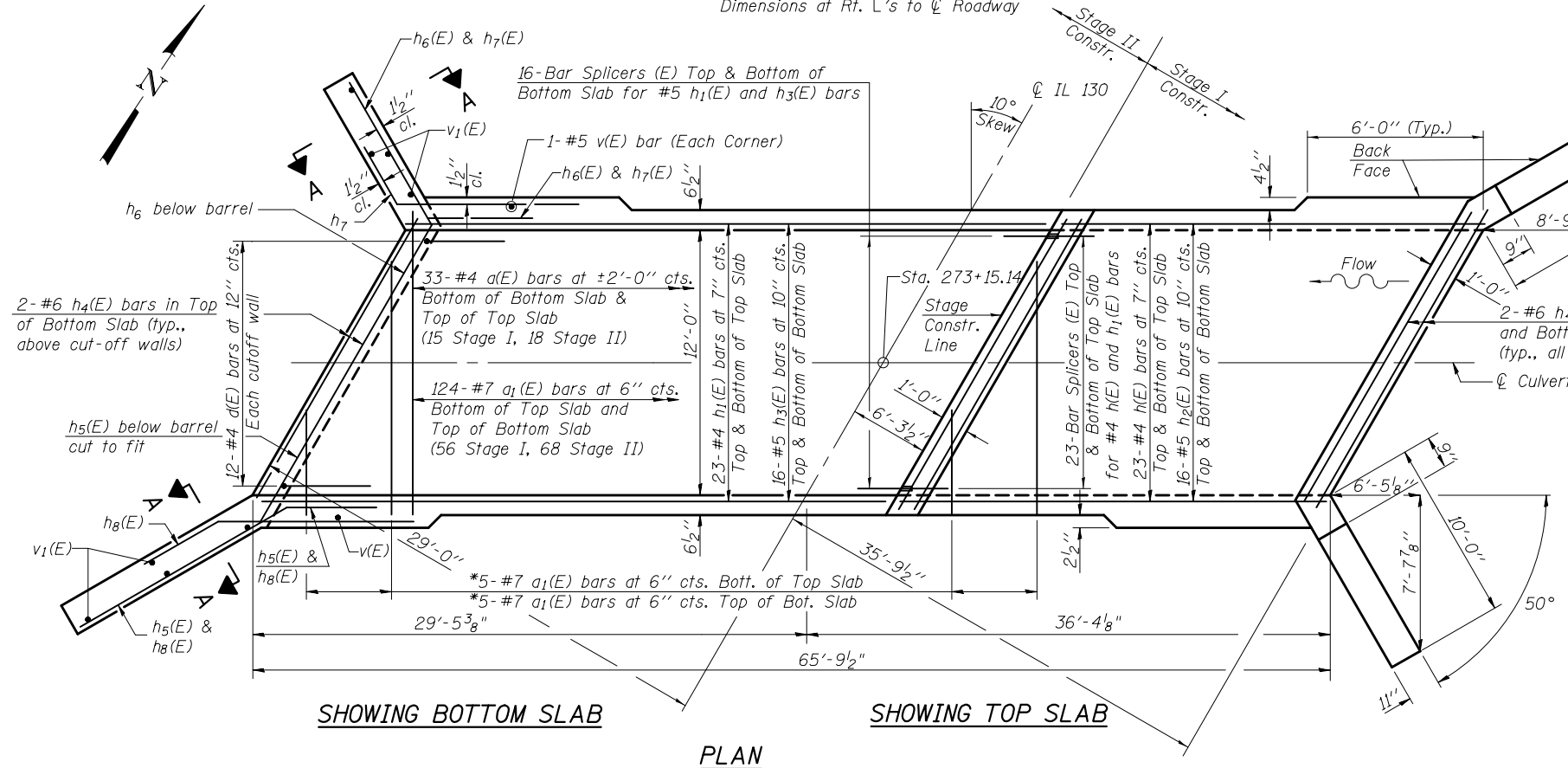


SECTION THRU BARREL



BARS h6(E) & h7(E)

BARS h5(E) & h8(E)



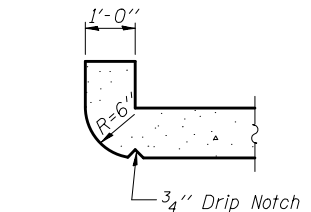
SHOWING BOTTOM SLAB

SHOWING TOP SLAB

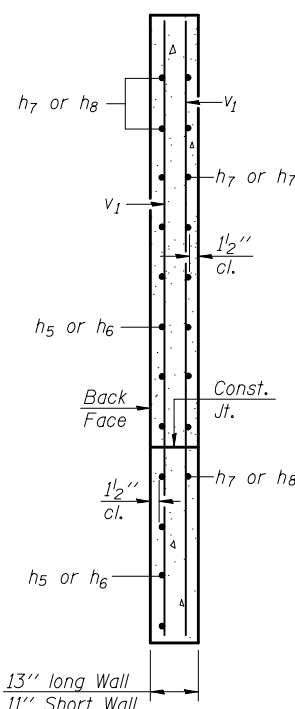
PLAN

*a1(E) bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bars to be used in opposite end of culvert and stage line.

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.



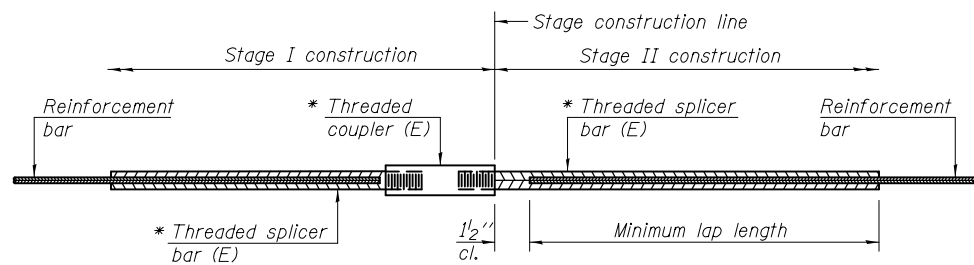
SECTION THRU HEADWALL
(Up Stream End Only)



SECTION A-A

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|---------|-------|
| a(E) | 66 | #4 | 12'-9" | — |
| a1(E) | 268 | #7 | 14'-5" | ⌋ |
| d(E) | 24 | #4 | 4'-5" | └ |
| h(E) | 68 | #4 | 29'-8" | — |
| h1(E) | 68 | #4 | 35'-6" | — |
| h2(E) | 32 | #5 | 29'-8" | — |
| h3(E) | 32 | #5 | 35'-6" | — |
| h4(E) | 20 | #6 | 12'-10" | — |
| h5(E) | 16 | #7 | 14'-6" | └ |
| h6(E) | 16 | #7 | 13'-0" | └ |
| h7(E) | 16 | #7 | 8'-0" | └ |
| h8(E) | 18 | #7 | 8'-0" | └ |
| v(E) | 226 | #5 | 7'-11" | — |
| v1(E) | 16 | #4 | 10'-6" | — |
| Concrete Box Culverts | | Cu. Yd. | 107.0 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 17,490 | |
| Bar Splicers | | Each | 100 | |



STANDARD BAR SPLICER ASSEMBLY

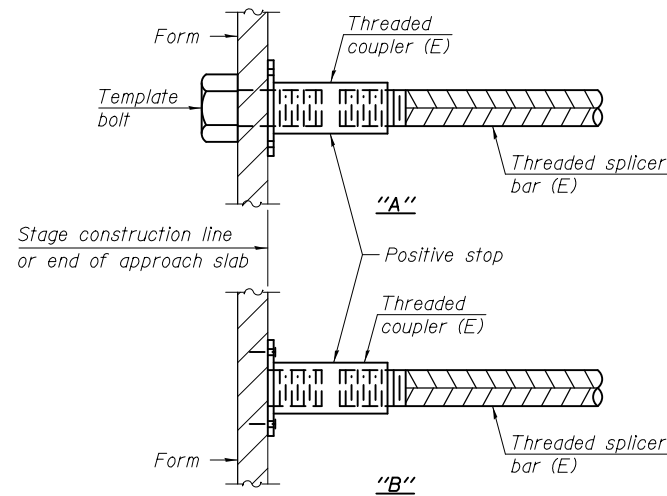
| Minimum Lap Lengths | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-7" | 2'-11" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 3'-3" | 3'-8" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-10" | 4'-5" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 5'-2" | 5'-10" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 6'-9" | 7'-8" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 8'-7" | 9'-8" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

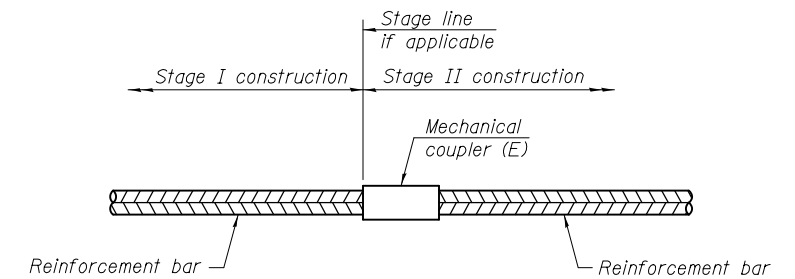
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|-------------|----------|-------------------------|------------------------------|
| Top Slab | #4 | 46 | 3 |
| Bottom Slab | #5 | 32 | 3 |
| Walls | #4 | 12 | 3 |
| | | | |



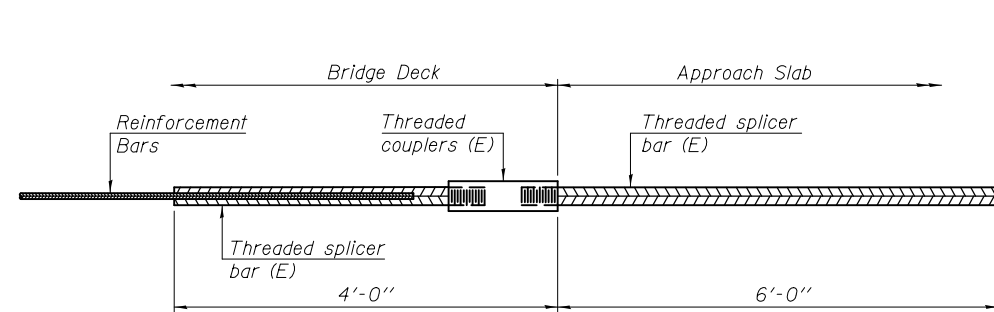
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



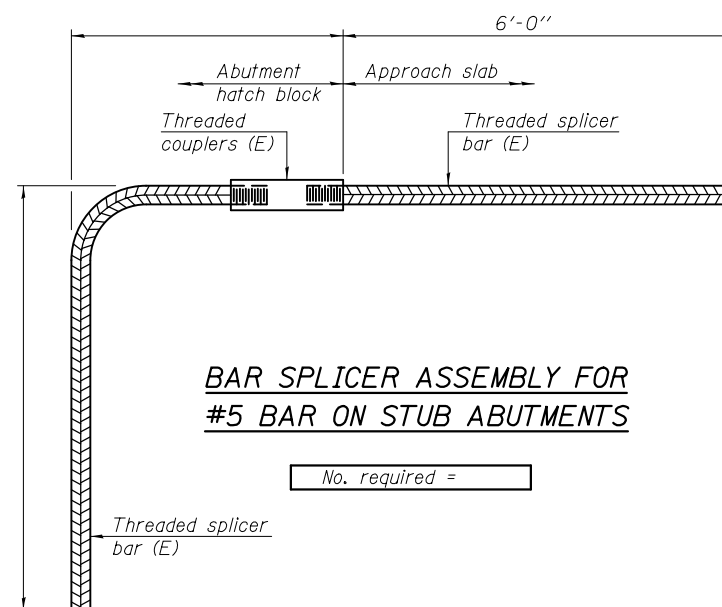
STANDARD MECHANICAL SPLICER

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



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

1-27-12



USER NAME =
 PLOT SCALE =
 PLOT DATE =

DESIGNED - WJV
 CHECKED - CCF
 DRAWN - CCF
 CHECKED - WJV

REVISED
 REVISED
 REVISED
 REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

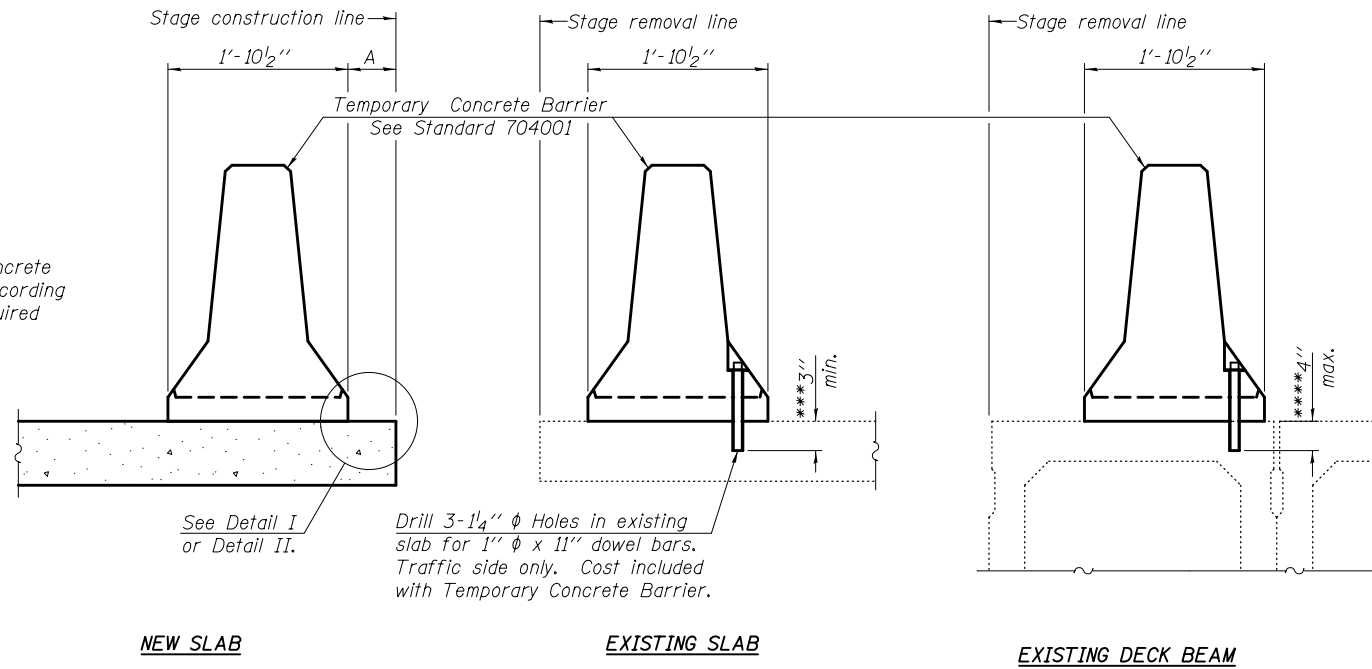
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 080-8644

SHEET NO. 4 OF 6 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 44 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

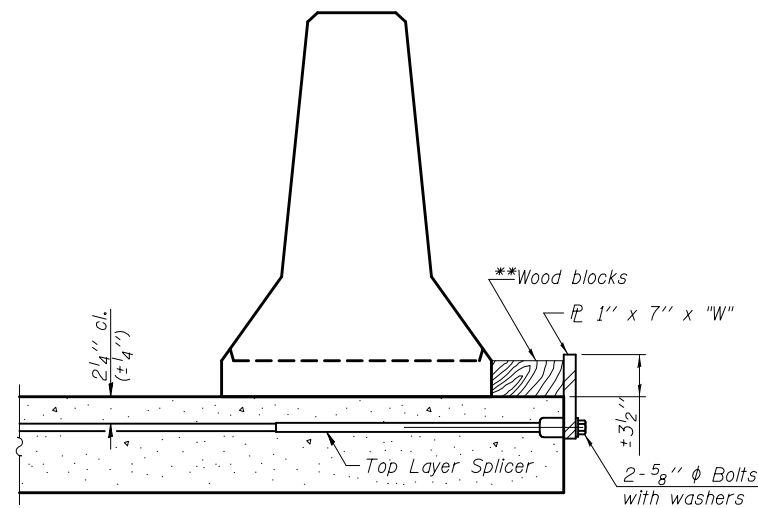
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

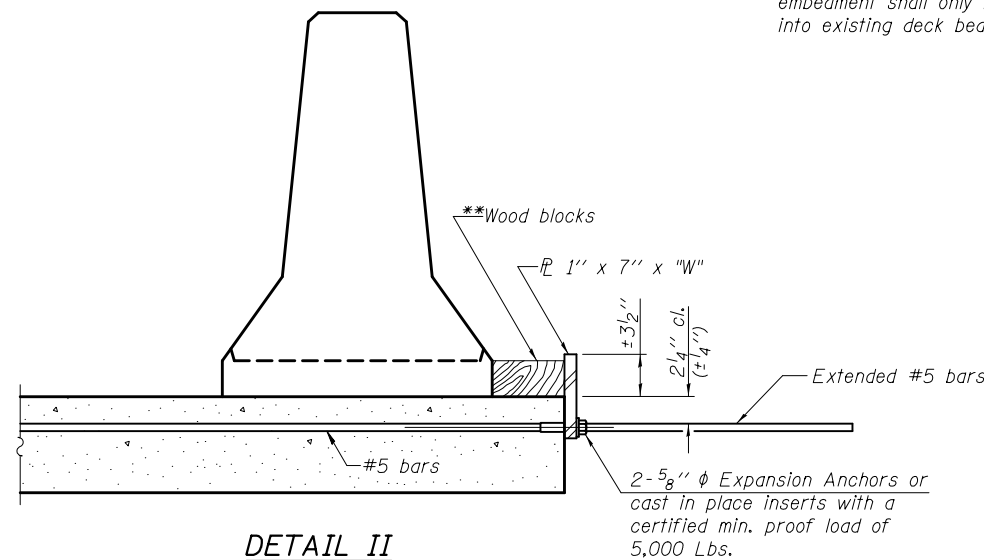
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

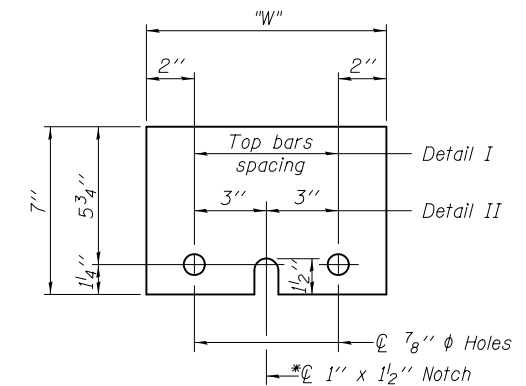
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10



| | | |
|--------------|----------------|---------|
| USER NAME = | DESIGNED - WJV | REVISED |
| | CHECKED - CCF | REVISED |
| PLOT SCALE = | DRAWN - CCF | REVISED |
| PLOT DATE = | CHECKED - WJV | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE NO. 080-8644

SHEET NO. 5 OF 6 SHEETS

| | | | | |
|-------------|---------|----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 45 |
| | | | CONTRACT NO. 74616 | |

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 8/16/11

ROUTE FAP 116 (IL 130) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer

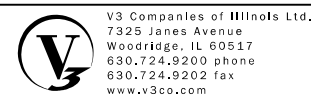
SECTION (124,125,126)RS-3 LOCATION N 1/2, SEC. 34, TWP. 3 N, RNG. 10 E, 3 PM

COUNTY Richland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

| STRUCT. NO. | 080-8626 | D | B | U | M | Surface Water Elev. | 447.49 | ft | D | B | U | M |
|---|-----------|------|-----|-------|-----|--|--------|----|------|-----|-------|-----|
| Station | 273+08 | E | L | C | O | Stream Bed Elev. | 446.15 | ft | E | L | C | O |
| BORING NO. | 1 (South) | P | O | S | I | Groundwater Elev.: | | | P | O | S | I |
| Station | 273+34 | T | W | Qu | S | First Encounter | Dry | ft | H | S | Qu | T |
| Offset | 13.0ft Rt | H | S | | | Upon Completion | Dry | ft | (ft) | /6" | (tsf) | (%) |
| Ground Surface Elev. | 455.86 | (ft) | /6" | (tsf) | (%) | After 24 Hrs. | Dry | ft | (ft) | /6" | (tsf) | (%) |
| 8" aggregate shoulder. | 455.16 | | | | | Stiff, damp, gray, CLAY. | | | 3 | 1.5 | 24 | |
| Medium, damp, brown, SANDY LOAM. | | | | | | (continued) | | | 5 | B | | |
| | | 2 | | | | Extent of exploration. | | | | | | |
| | | 4 | 0.9 | 19 | | | | | | | | |
| | | 8 | B | | | Benchmark: BM 83 Chiseled X on a rebar on NW headwall of existing structure, Sta 273+10, 20' West = 454.72' elevation. | | | | | | |
| | | -5 | 2 | | | | | | -25 | | | |
| | | 2 | 0.7 | 21 | | | | | | | | |
| | | 3 | S | | | | | | | | | |
| 448.86 | | | | | | | | | | | | |
| Stiff, damp, dark gray, CLAY w/ Sand. | | 1 | | | | | | | | | | |
| | | 1 | 1.2 | 16 | | | | | | | | |
| | | 1 | B | | | | | | | | | |
| 446.36 | | | | | | | | | | | | |
| Soft, damp, gray, SANDY LOAM. | | 1 | | | | | | | | | | |
| | | 0 | 0.3 | 19 | | | | | | | | |
| | | 1 | B | | | | | | | | | |
| | | 2 | | | | | | | | | | |
| 442.86 | | 3 | 2.5 | 10 | | | | | | | | |
| Very stiff, damp, gray, CLAY LOAM. | | 5 | S | | | | | | | | | |
| 441.36 | | | | | | | | | | | | |
| Very stiff, damp, gray, CLAY LOAM TILL. | | 8 | | | | | | | | | | |
| | | 7 | 3.8 | 12 | | | | | | | | |
| | | 6 | B | | | | | | | | | |
| | | 3 | | | | | | | | | | |
| | | 6 | 4.1 | 14 | | | | | | | | |
| | | 8 | B | | | | | | | | | |
| 436.36 | | | | | | | | | | | | |
| Stiff, damp, gray, CLAY. | | 2 | | | | | | | | | | |
| | | -20 | | | | | | | | | | |

File Name S:\NEW\GEO\TECH\DATA\PROJECTS\RICHLAND CO\080\080-8626.GPJ Data Template D:\TEMP\11\08022 Latitude W 88 deg 05.085 min Longitude N 38 deg 39.499 min Datum

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



| | | |
|--------------|----------------|---------|
| USER NAME = | DESIGNED - WJV | REVISED |
| | CHECKED - CCF | REVISED |
| PLOT SCALE = | DRAWN - CCF | REVISED |
| PLOT DATE = | CHECKED - WJV | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING
STRUCTURE NO. 080-8644**

SHEET NO. 6 OF 6 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|--------------------|
| 116 | 1251 | RICHLAND | 198 | 46 |
| | | | | CONTRACT NO. 74616 |

ILLINOIS FED. AID PROJECT

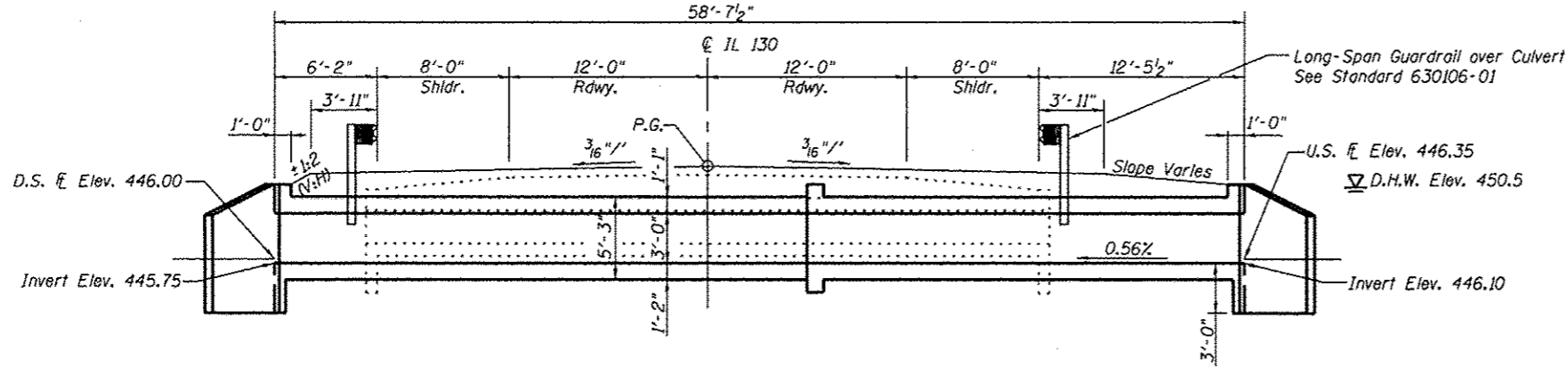
Bench Mark: BM 81 chiseled "X" on a rebar on the North end of the West headwall of S.N. 080-8625, Elevation 450.41

Existing Structure: S.N. 080-8625 was built as a single cell 10'-0" x 2'-0" R.C. Box Culvert with a culvert length of 41'-4".
Traffic to be maintained utilizing staged construction.

No Salvage

GENERAL NOTES

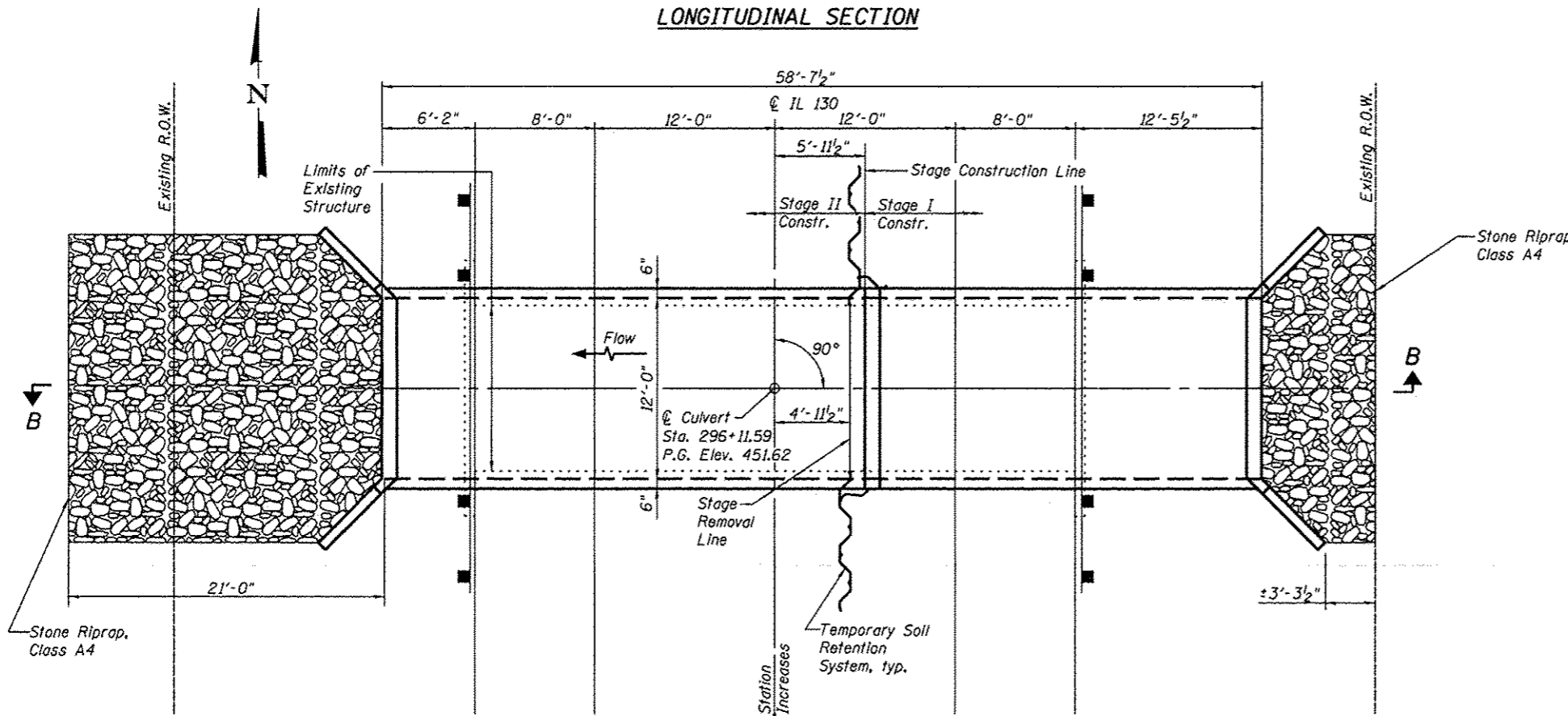
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Reinforcement bars designated (E) shall be epoxy coated.



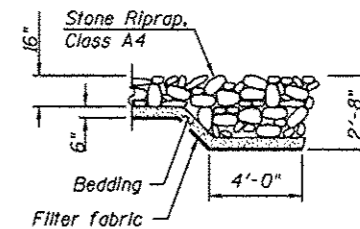
LONGITUDINAL SECTION

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|----------------------------------|---------|--------|
| Stone Riprap, Class A4 | Sq. Yd. | 61 |
| Filter Fabric | Sq. Yd. | 61 |
| Removal of Existing Structures | Each | 1 |
| Reinforcement Bars, Epoxy Coated | Pounds | 13,640 |
| Bar Splicers | Each | 89 |
| Concrete Box Culverts | Cu. Yd. | 76.8 |
| Temporary Soil Retention System | Sq. Ft. | 119.2 |



PLAN



SECTION B-B

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

LOADING HS 20-44 & TANDEM

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

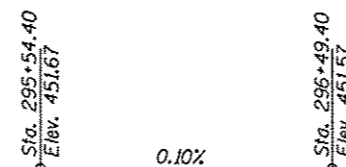
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

WATERWAY INFORMATION

| Drainage Area = 0.31 mi. ² | | Existing Low Grade Elev. = 451.44 @ Sta. 296+09 | | Head - Ft. | | Headwater El. | | | |
|---------------------------------------|----------|---|-------|---------------|-------|---------------|-------|-------|-------|
| Flood Yr. | Q C.F.S. | Opening Sq. Ft. Exist. | Prop. | H.W.E. Exist. | Prop. | Exist. | Prop. | | |
| Design | 50 | 255 | 17 | 36 | 450.5 | 1.2 | 0 | 451.7 | 450.5 |
| Overtopping Exist. | 10 | 174 | 17 | | 450.0 | 1.5 | | 451.5 | |
| Overtopping Prop. | | | | | | | | | |
| Max. Calc. | 100 | 300 | 17 | 36 | 450.7 | 1.0 | 0.3 | 451.8 | 451.0 |

10-Year Velocity through Existing Culvert = 10.2 ft/s
10-Year Velocity through Proposed Culvert = 4.83 ft/s

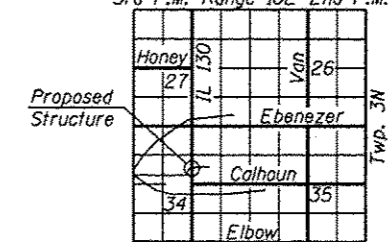


PROFILE GRADE



William J. Vegrzyn
12-10-14
Expires 11-30-16

3rd P.M. - Range 10E - 2nd P.M.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

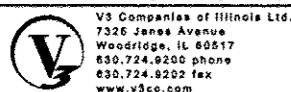
ILLINOIS ROUTE 130 OVER TRIB. TO TURKEY CREEK

F.A.P. ROUTE 116 - SEC. 1251

RICHLAND COUNTY

STATION 296+11.59

S.N. 080-8643

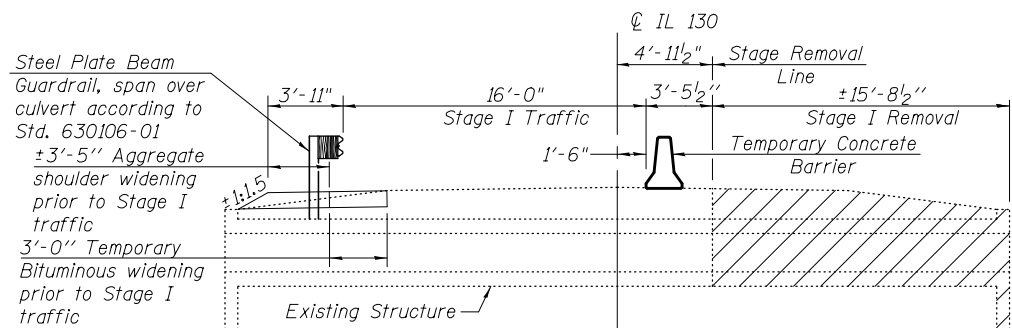


| USER NAME | DESIGNED | REVISIONS |
|-----------|----------|-----------|
| WJV | WJV | |
| CCF | CCF | |
| CCF | CCF | |
| WJV | WJV | |

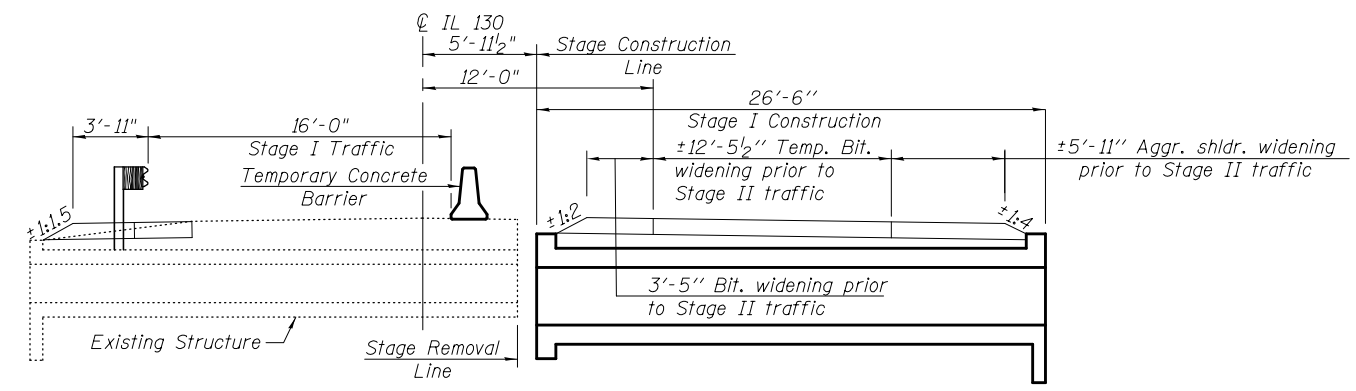
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 5 SHEETS

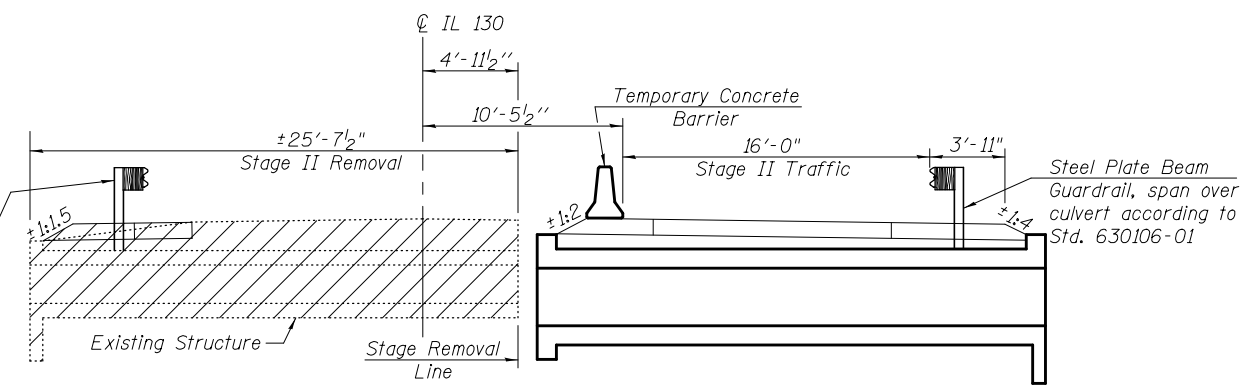
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 47 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



STAGE I REMOVAL

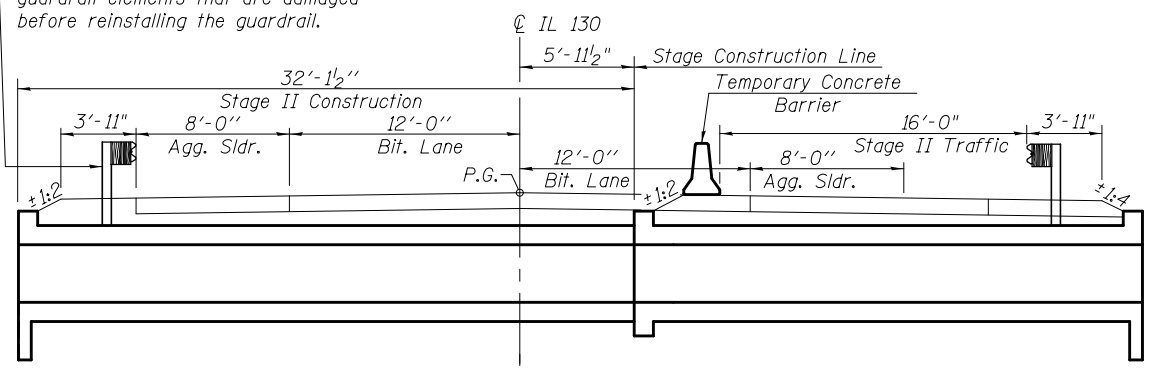


STAGE I CONSTRUCTION



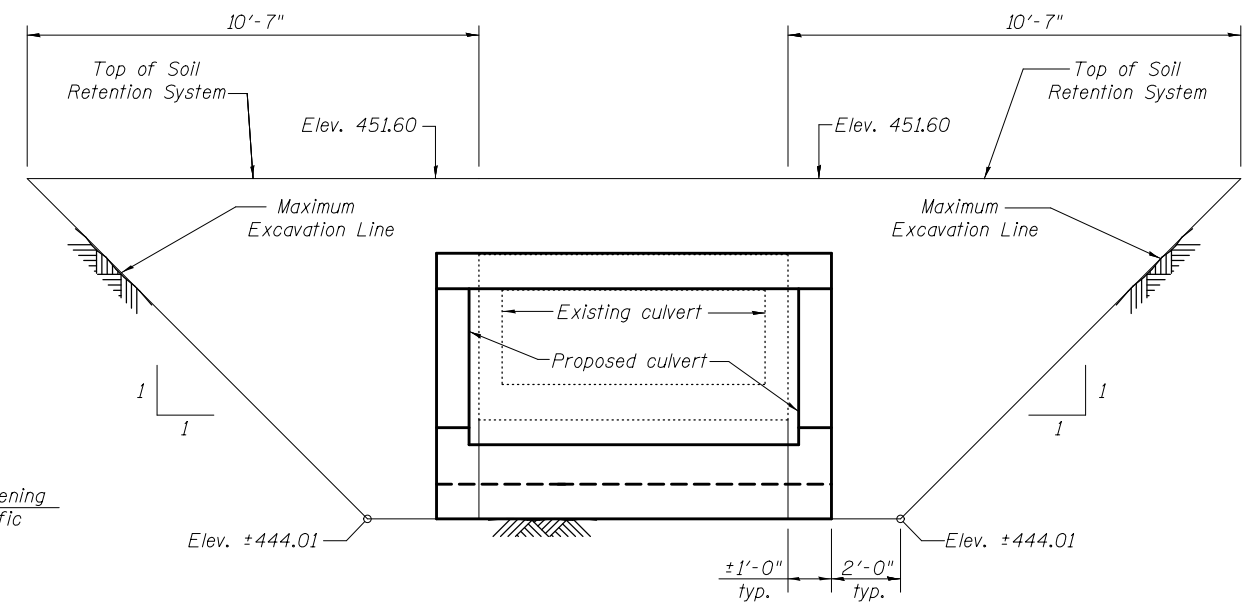
STAGE II REMOVAL

Remove Steel Plate Beam Guardrail, and place it in its permanent location during Stage II Constr. Replace any guardrail elements that are damaged before reinstalling the guardrail.



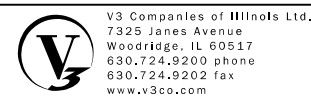
STAGE II CONSTRUCTION

- Notes:
1. Hatched area indicates Removal of Existing Structures
 2. All staging cross sections are looking north.
 3. For details of Temporary Concrete Barrier, see sheet 5 of 5.
 4. For quantity of Temporary Concrete Barrier, see Roadway Plans.



TEMPORARY SOIL RETENTION SYSTEM
(Looking along Stage Construction Line)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



| | | | |
|---|--------------|--------------|---------|
| V3 Companies of Illinois Ltd. 7325 James Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com | USER NAME = | DESIGNED WJV | REVISED |
| | PLOT SCALE = | CHECKED CCF | REVISED |
| | PLOT DATE = | DRAWN CCF | REVISED |
| | | CHECKED WJV | REVISED |

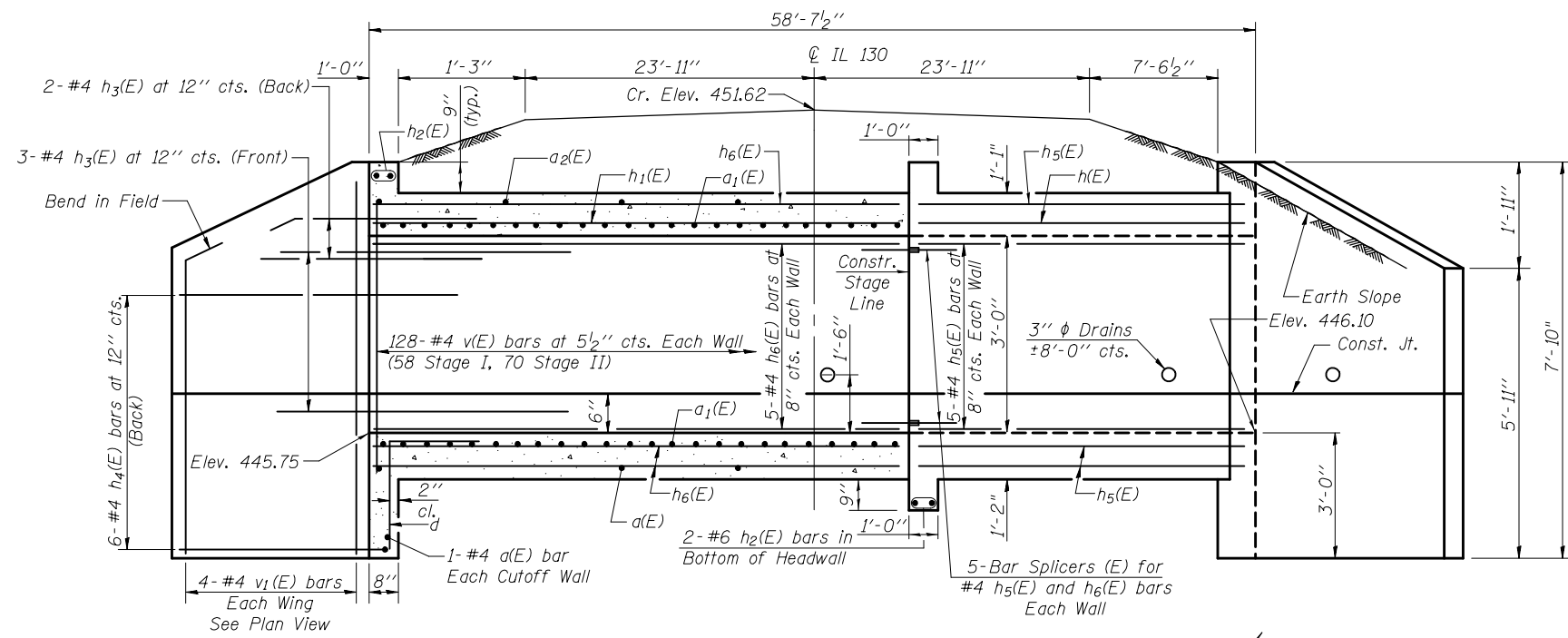
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 080-8643**

SHEET NO. 2 OF 5 SHEETS

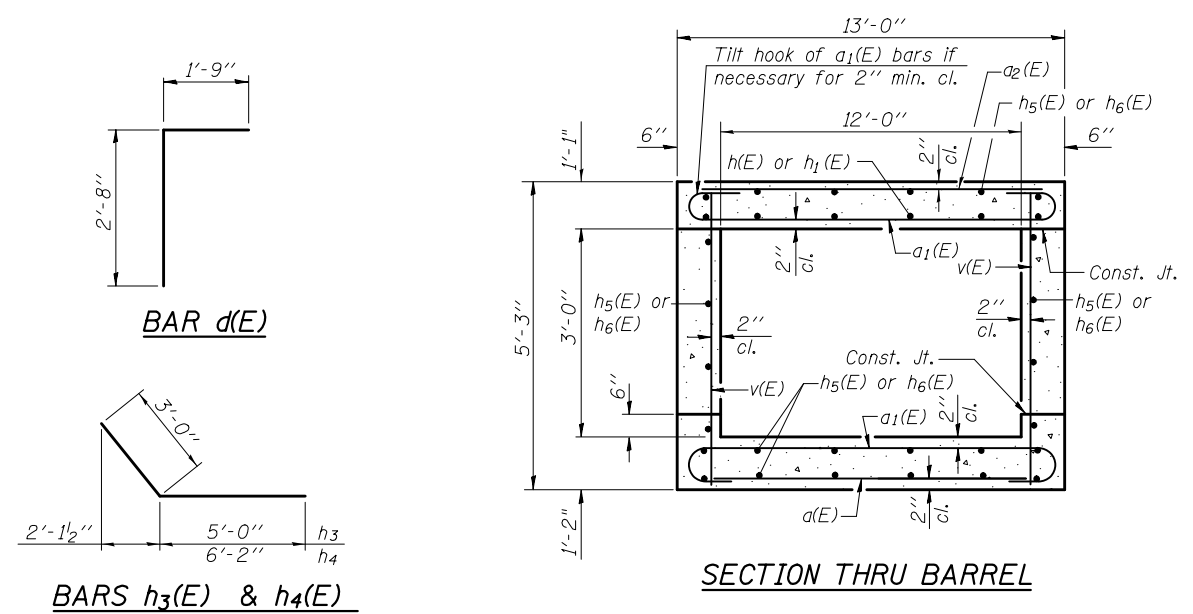
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 48 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

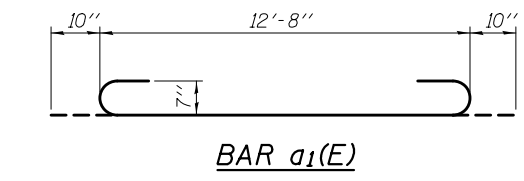


HALF LONG. SECTION

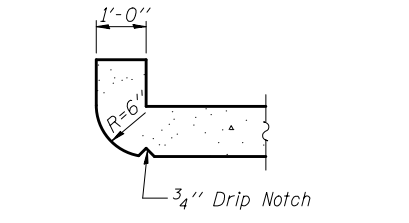
HALF ELEVATION



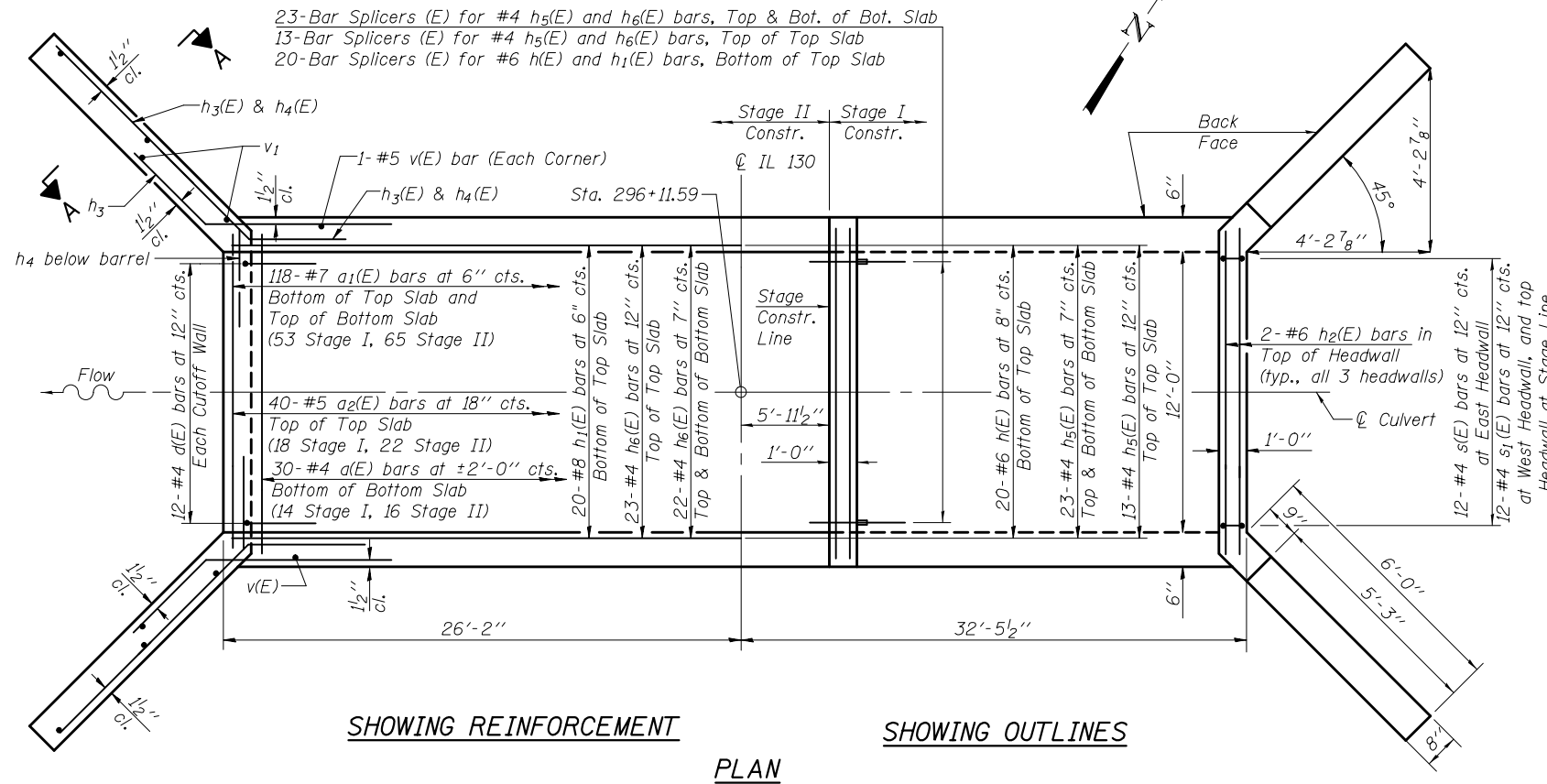
BARS h3(E) & h4(E)



BAR a1(E)

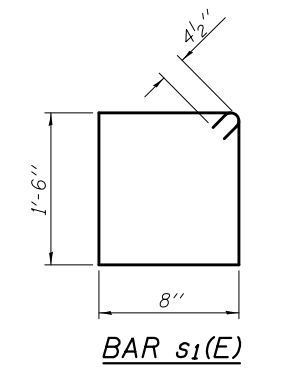


SECTION THRU HEADWALL
(Up Stream End Only)

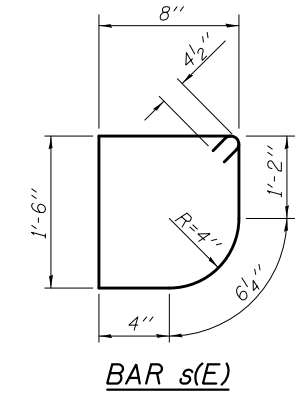


SHOWING REINFORCEMENT

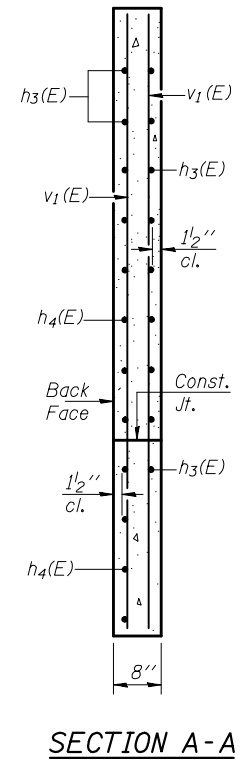
SHOWING OUTLINES



BAR s1(E)



BAR s(E)

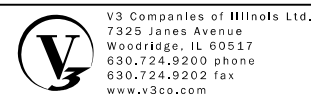


SECTION A-A

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|---------|-------|
| a(E) | 32 | #4 | 12'-8" | — |
| a1(E) | 236 | #7 | 14'-4" | U |
| a2(E) | 40 | #5 | 12'-8" | — |
| d(E) | 24 | #4 | 4'-5" | L |
| h(E) | 20 | #6 | 26'-2" | — |
| h1(E) | 20 | #6 | 31'-10" | — |
| h2(E) | 8 | #6 | 11'-9" | — |
| h3(E) | 20 | #4 | 8'-0" | — |
| h4(E) | 24 | #4 | 9'-2" | — |
| h5(E) | 69 | #4 | 26'-2" | — |
| h6(E) | 69 | #4 | 31'-10" | — |
| s(E) | 12 | #4 | 5'-1" | □ |
| s1(E) | 24 | #4 | 4'-11" | □ |
| v(E) | 256 | #4 | 4'-11" | — |
| v1(E) | 16 | #4 | 7'-6" | — |
| Concrete Box Culverts | | Cu. Yd. | 76.8 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 13,640 | |
| Bar Splicers | | Each | 89 | |

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.



| | | |
|--------------|--------------|---------|
| USER NAME = | DESIGNED WJV | REVISED |
| PLOT SCALE = | CHECKED CCF | REVISED |
| PLOT DATE = | DRAWN CCF | REVISED |
| | CHECKED WJV | REVISED |

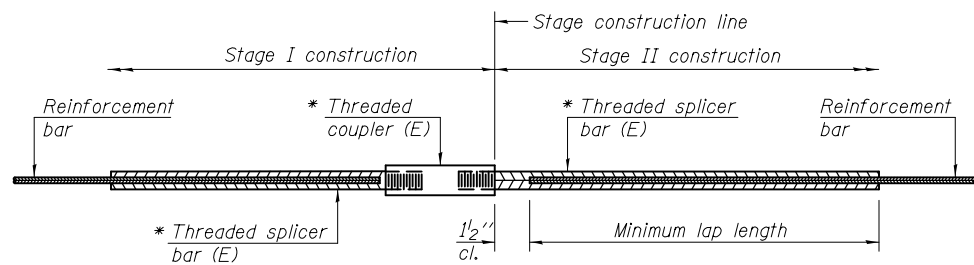
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 080-8643

SHEET NO. 3 OF 5 SHEETS

| | | | | |
|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 49 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

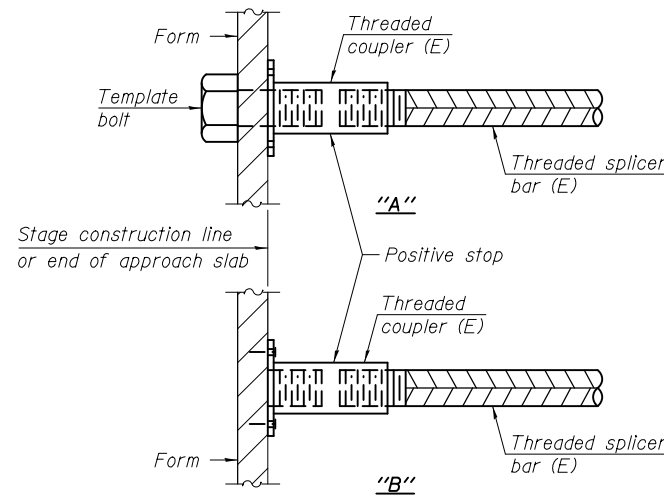
| Minimum Lap Lengths | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-7" | 2'-11" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 3'-3" | 3'-8" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-10" | 4'-5" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 5'-2" | 5'-10" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 6'-9" | 7'-8" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 8'-7" | 9'-8" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar lap, Class C

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

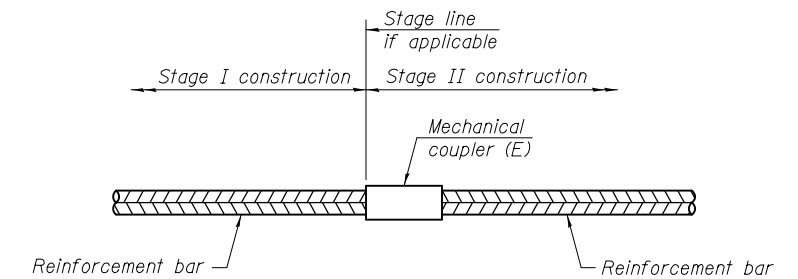
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|-------------|----------|-------------------------|------------------------------|
| Top Slab | #6 | 20 | 3 |
| Top Slab | #4 | 13 | 3 |
| Bottom Slab | #4 | 46 | 3 |
| Walls | #5 | 10 | 3 |



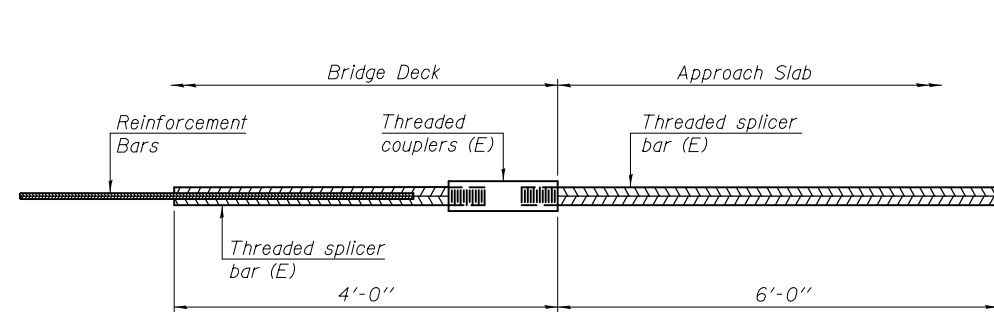
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



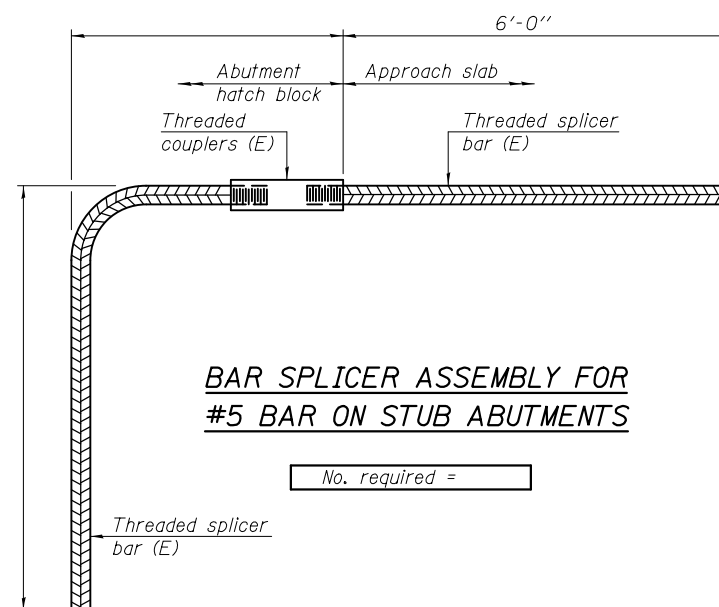
STANDARD MECHANICAL SPLICER

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



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

1-27-12



| | | |
|--------------|--------------|---------|
| USER NAME = | DESIGNED WJV | REVISED |
| PLOT SCALE = | CHECKED CCF | REVISED |
| PLOT DATE = | DRAWN CCF | REVISED |
| | CHECKED WJV | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

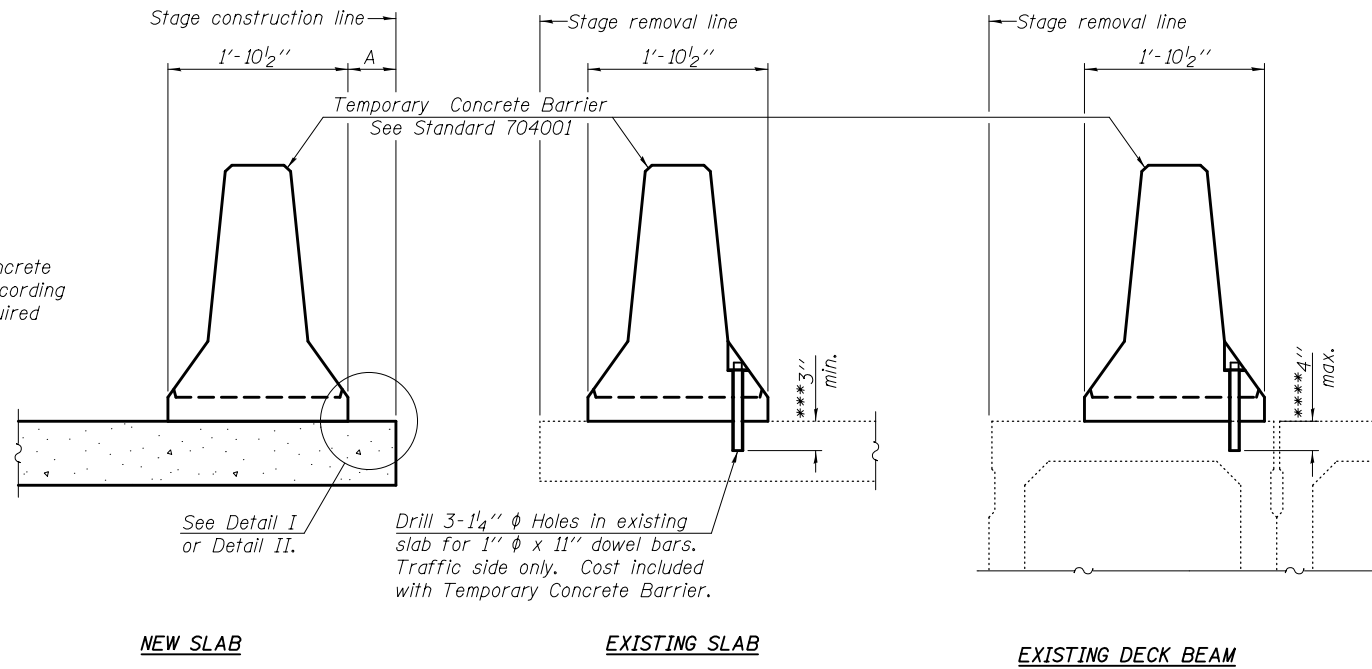
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 080-8643

SHEET NO. 4 OF 5 SHEETS

| | | | | |
|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 50 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

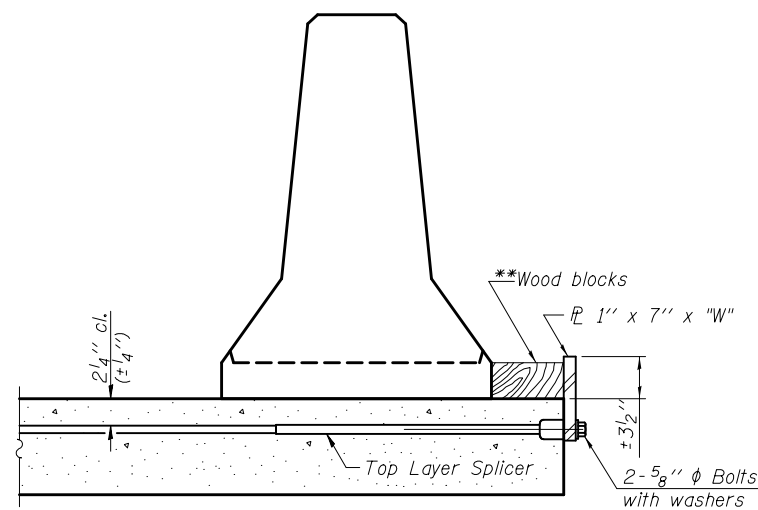
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

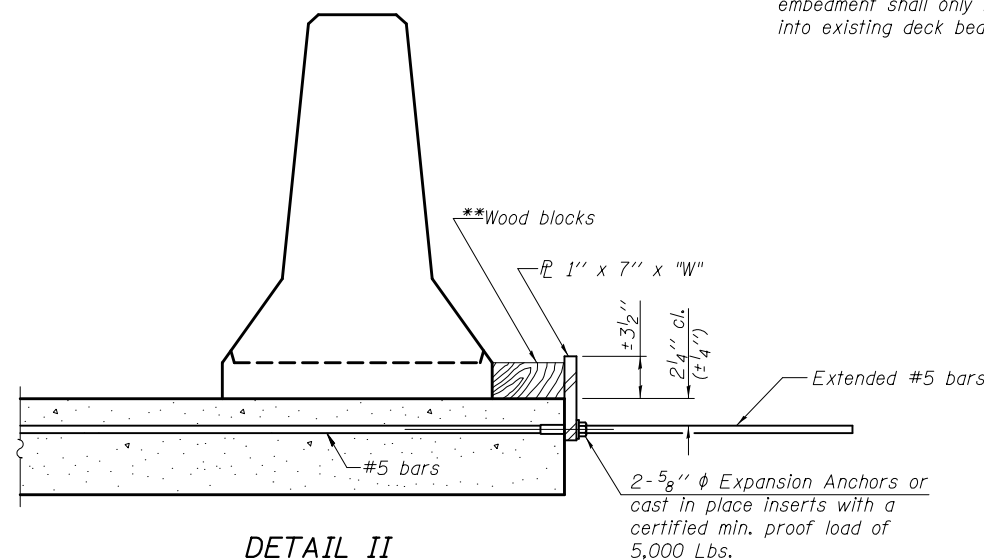
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

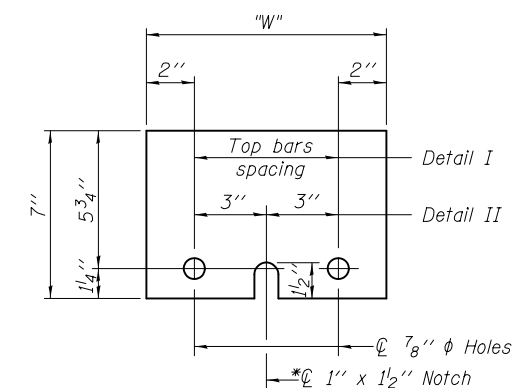
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10



| | | |
|--------------|--------------|---------|
| USER NAME = | DESIGNED WJV | REVISED |
| CHECKED CCF | CHECKED CCF | REVISED |
| PLOT SCALE = | DRAWN CCF | REVISED |
| PLOT DATE = | CHECKED WJV | REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STRUCTURE NO. 080-8643

SHEET NO. 5 OF 5 SHEETS

| | | | | |
|--------------------|---------|----------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 1251 | RICHLAND | 198 | 51 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

Bench Mark: BM 80 chiseled square on the North end of the East headwall of Str. 080-8624, Elevation 449.63

Existing Structure: S.N. 080-8624 was built as a single cell 11'-0" x 5'-0" R.C. Box Culvert with a culvert length of 53'-0".

Traffic to be maintained utilizing staged construction.

No Salvage

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

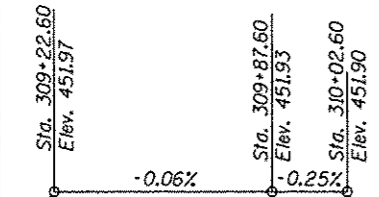
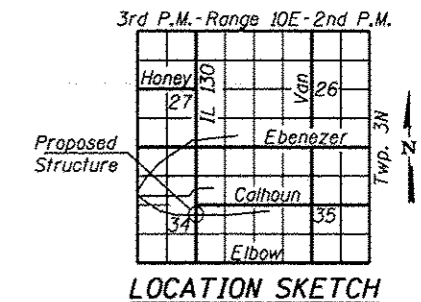
| ITEM | UNIT | TOTAL |
|----------------------------------|---------|--------|
| Stone Riprap, Class A5 | Sq. Yd. | 72 |
| Filter Fabric | Sq. Yd. | 72 |
| Removal of Existing Structures | Each | 1 |
| Reinforcement Bars, Epoxy Coated | Pounds | 18,850 |
| Reinforcement Bars | Pounds | 2,910 |
| Bar Splicers | Each | 114 |
| Concrete Box Culverts | Cu. Yd. | 147.8 |
| Temporary Soil Retention System | Sq. Ft. | 305.6 |
| Temporary Support System | L. Sum | 1 |

SMALL CULVERT WATERWAY INFORMATION

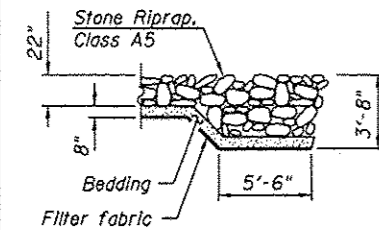
Drainage Area = 1.15 Square Miles
Existing Low Grade Elevation: 451.80 @ Sta. 309+87
Proposed Low Grade Elevation: 451.80 @ Sta. 309+87

| Flood Year | Frequency Year | Discharge C.F.S. | Headwater Elev. (ft.) Exist. | Headwater Elev. (ft.) Prop. |
|------------|----------------|------------------|------------------------------|-----------------------------|
| 10-Year | 10 | 619 | 451.66 | 448.17 |
| Design | 50 | 1040 | 452.29 | 451.98 |
| Base | 100 | 1230 | 452.41 | 452.17 |
| Max. Calc. | 500 | | | |

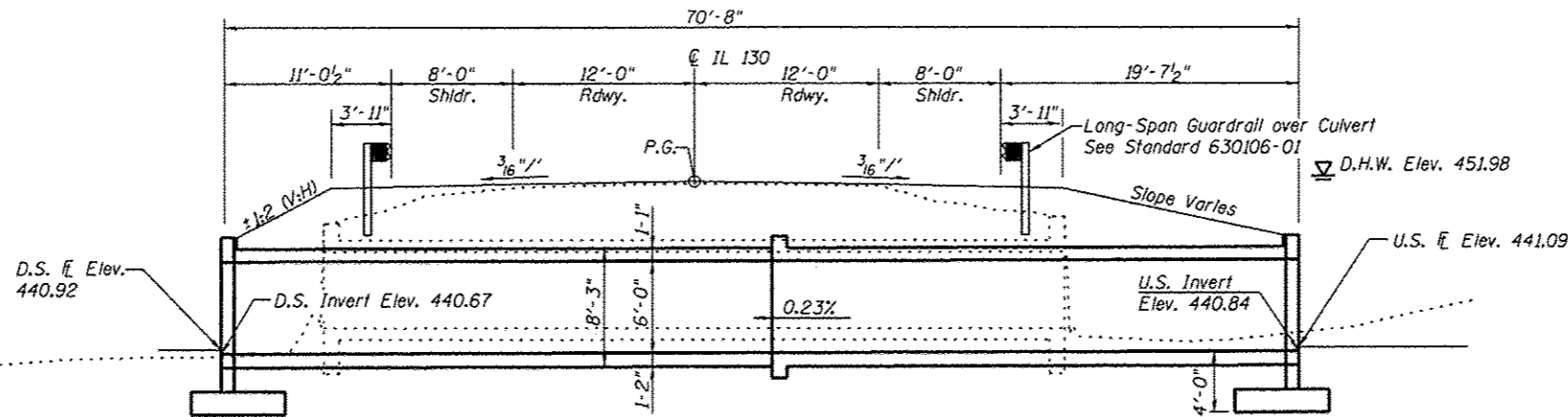
10-Year Velocity through Existing Culvert = 14.1 fps
10-Year Velocity through Proposed Culvert = 11.9 fps



PROFILE GRADE

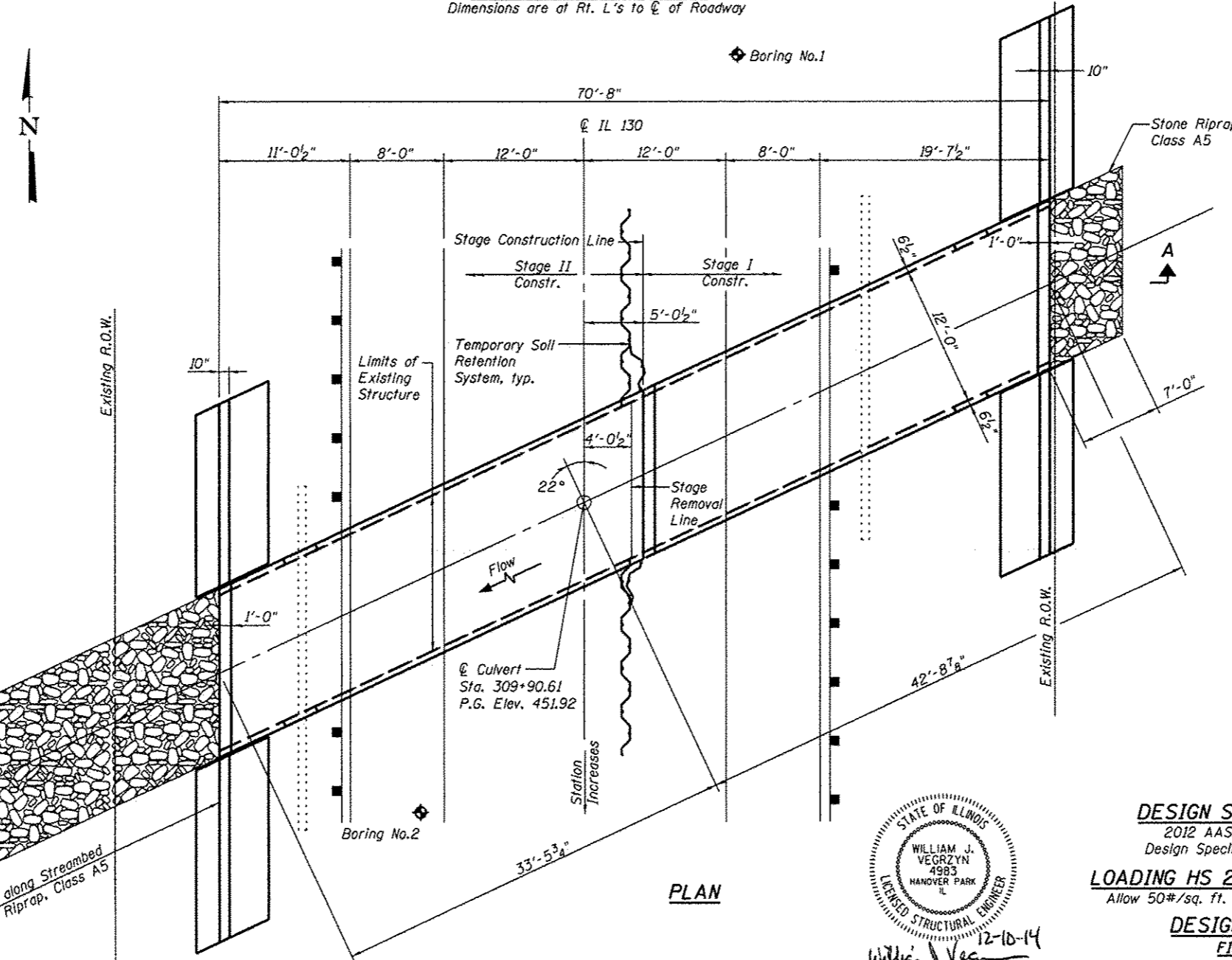


SECTION A-A

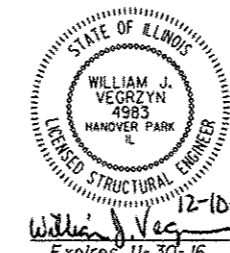


LONGITUDINAL SECTION

Dimensions are at Rt. L's to C of Roadway



PLAN

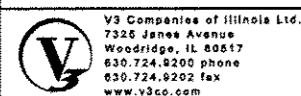


DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition
LOADING HS 20-44 & TANDEM
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 130 OVER
TRIB. TO TURKEY CREEK
F.A.P. ROUTE 116 - SEC. 1251
RICHLAND COUNTY
STATION 309+90.61
S.N. 080-8642



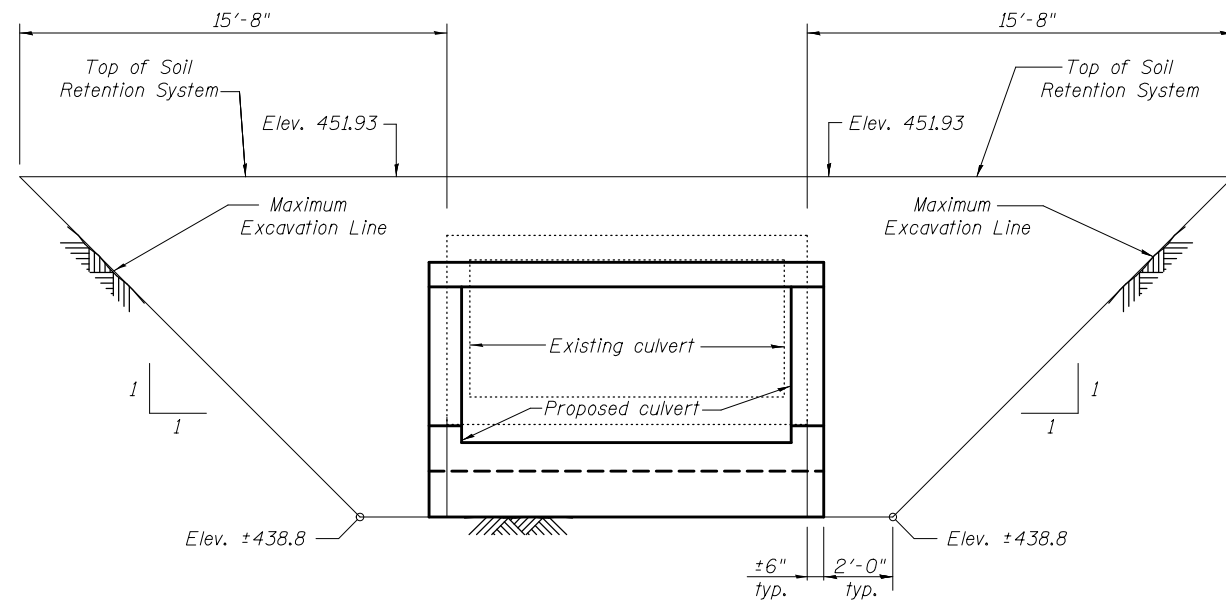
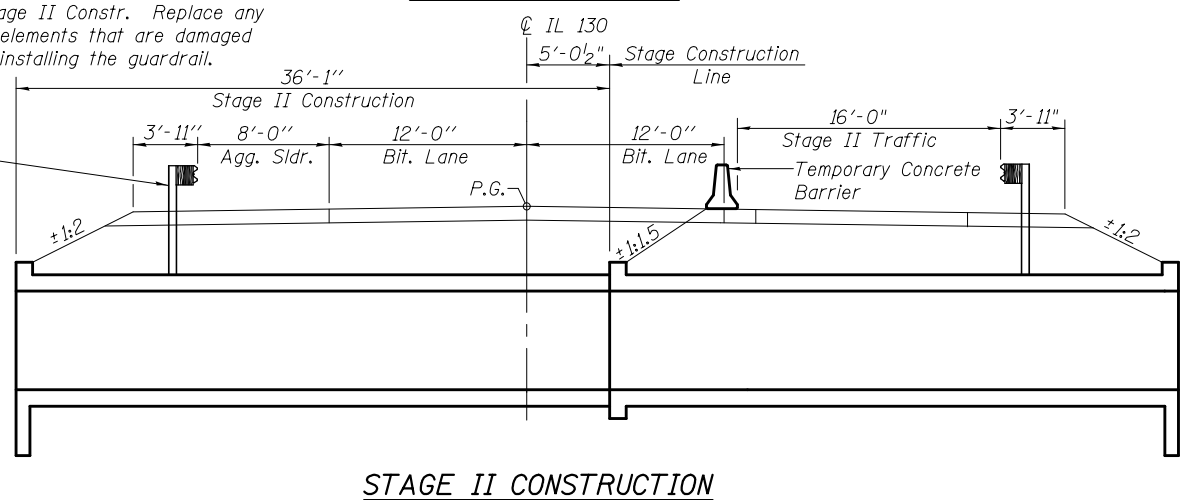
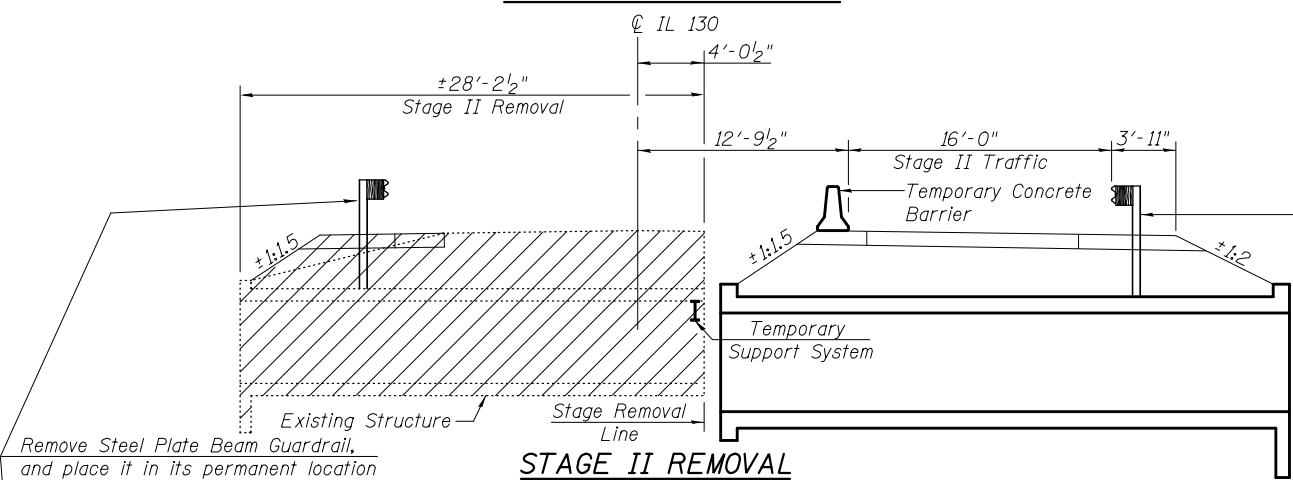
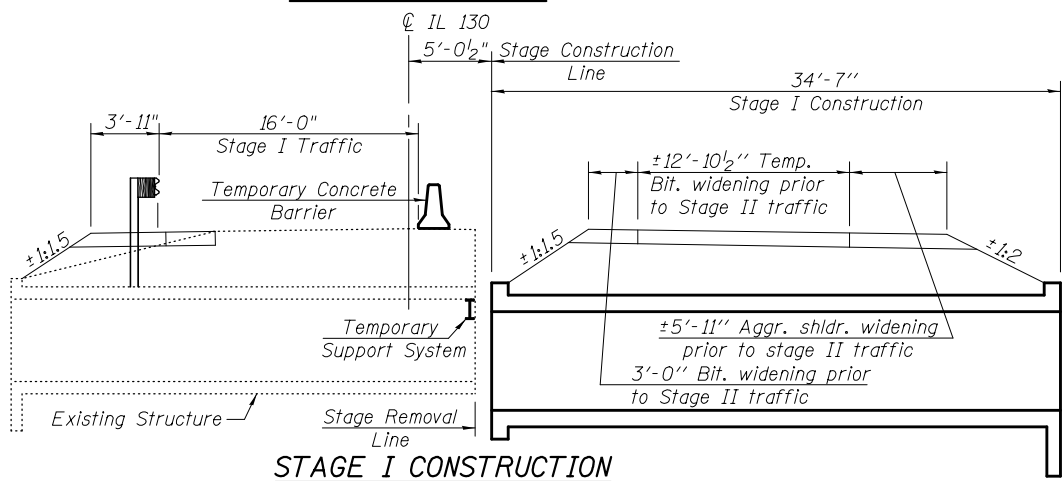
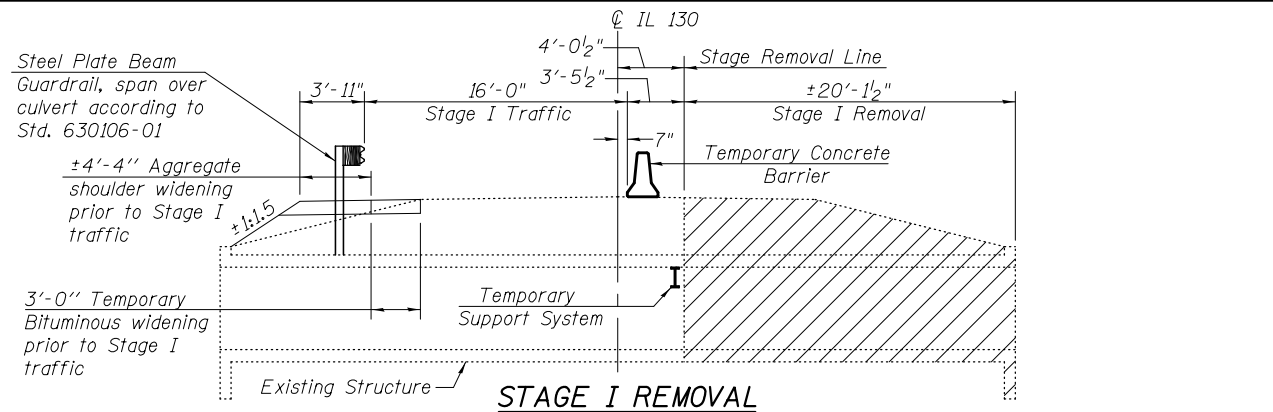
| USER NAME * | DESIGNED | REVISIONS |
|-------------|----------|-----------|
| WJV | WJV | |
| CCF | CCF | |
| CCF | CCF | |
| WJV | WJV | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

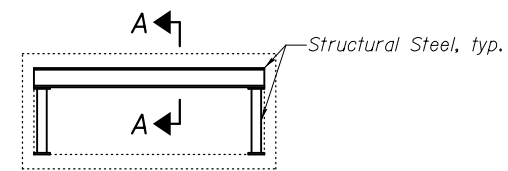
SHEET NO. 1 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 52 |

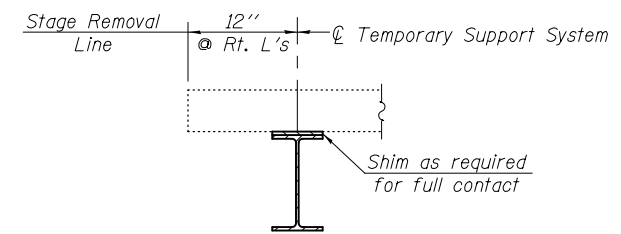
CONTRACT NO. 74616
[ILLINOIS] FED. AID PROJECT



A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



- Notes:
1. Place Temporary Support prior to Stage I Removal
 2. Place Temporary Support along skew
 3. Temporary Support System shall not be painted



- Notes:
1. Hatched area indicates Removal of Existing Structures.
 2. All staging cross sections are looking north.
 3. All dimensions are perpendicular to \varnothing Roadway unless noted otherwise.
 4. For details of Temporary Concrete Barrier, see sheet 6 of 7.
 5. For quantity of Temporary Concrete Barrier, see Roadway Plans.



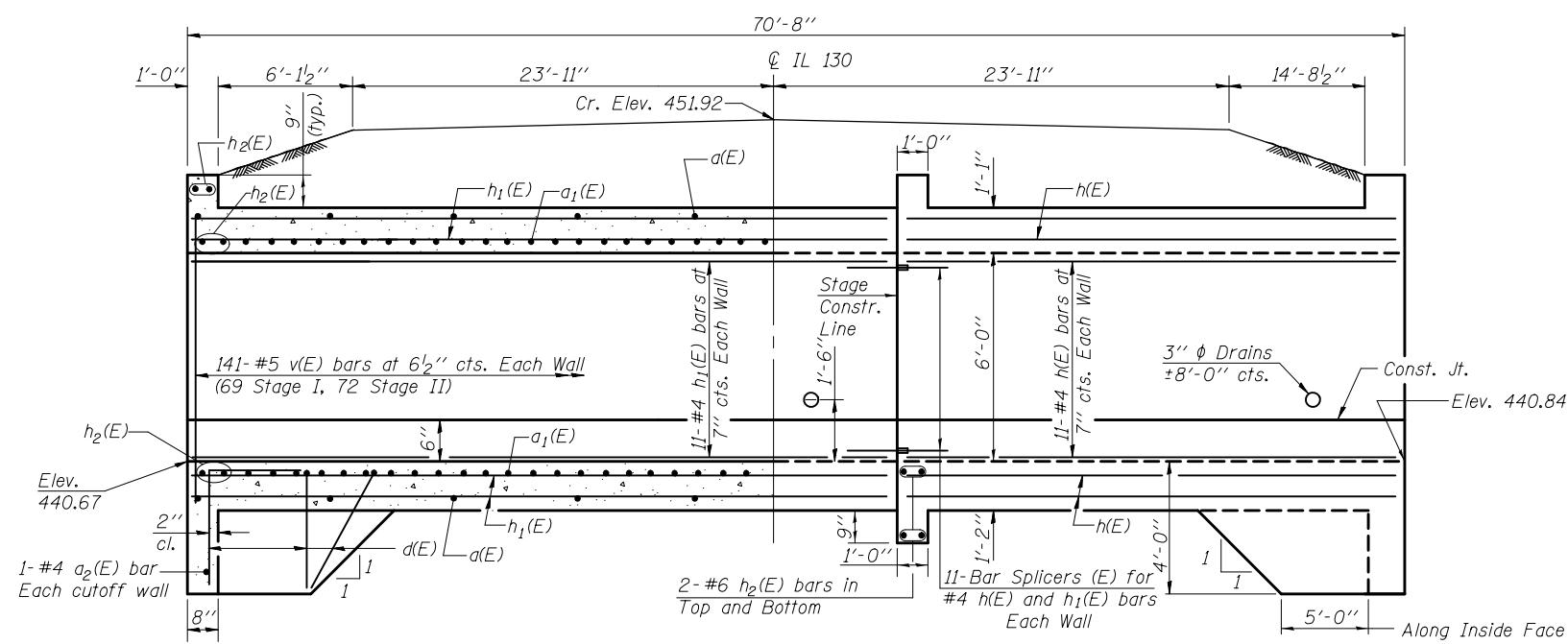
| | | |
|--------------|--------------|-----------|
| USER NAME = | DESIGNED WJV | REVISIONS |
| PLOT SCALE = | CHECKED CCF | REVISIONS |
| PLOT DATE = | DRAWN CCF | REVISIONS |
| | CHECKED WJV | REVISIONS |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 080-8642**
SHEET NO. 2 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 53 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

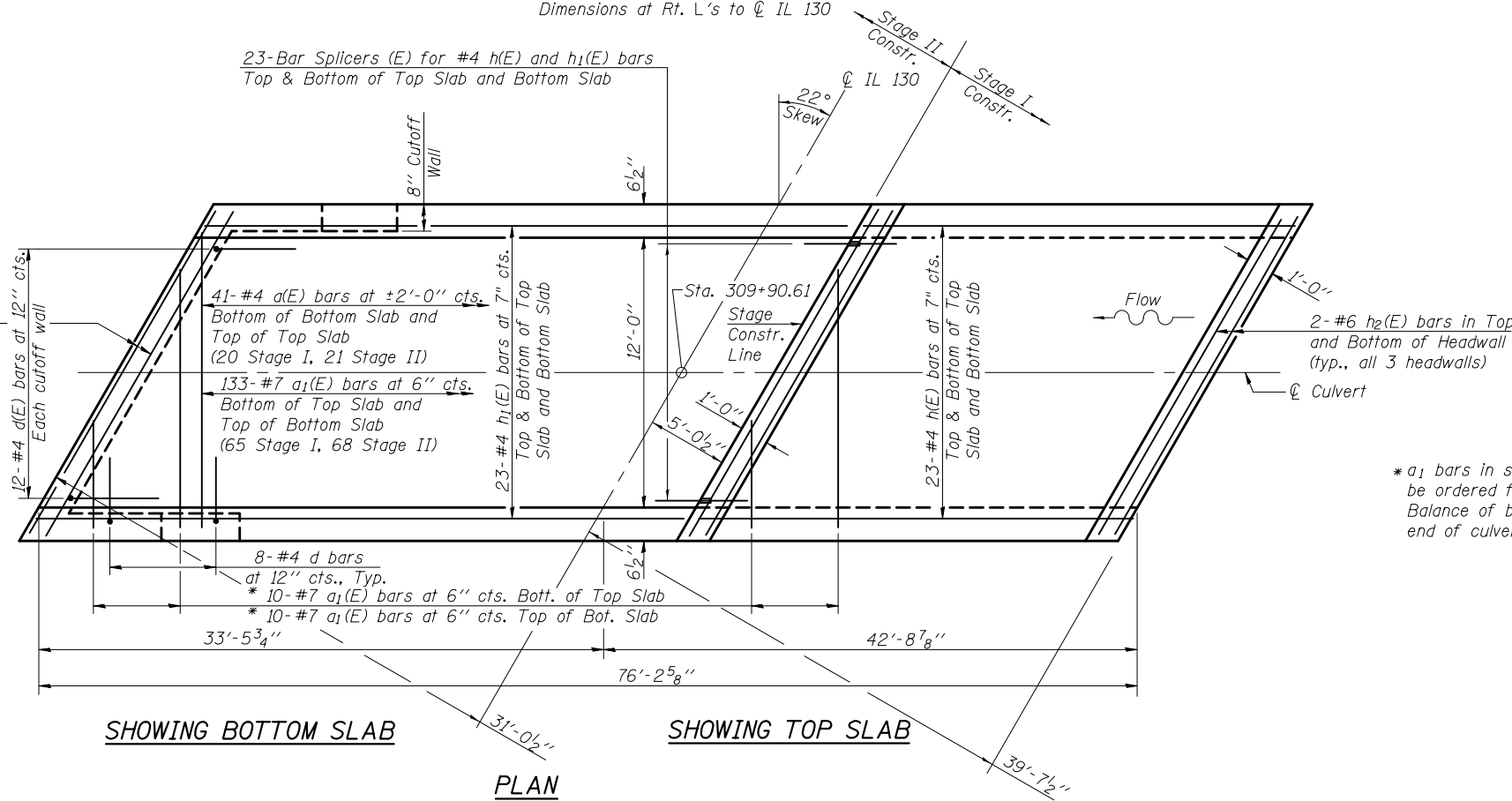
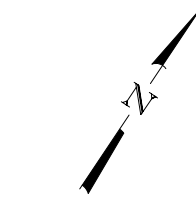


HALF LONG. SECTION

HALF ELEVATION

Dimensions at Rt. L's to CL IL 130

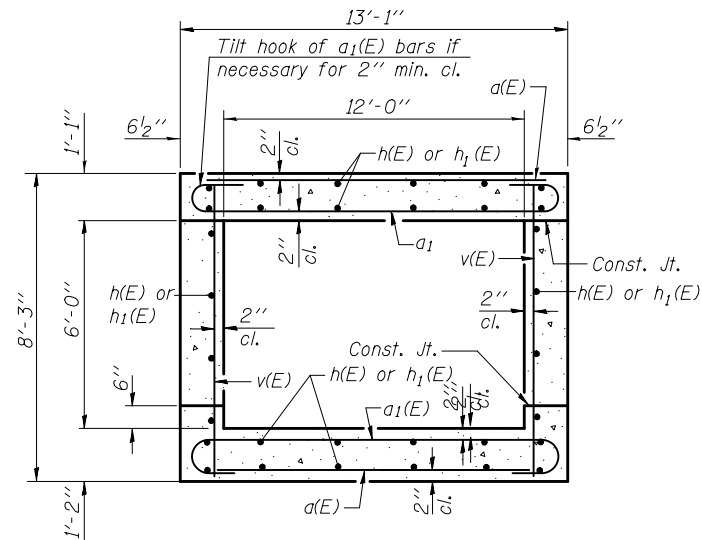
23-Bar Splicers (E) for #4 h(E) and h1(E) bars
Top & Bottom of Top Slab and Bottom Slab



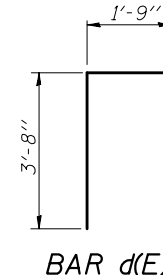
SHOWING BOTTOM SLAB

SHOWING TOP SLAB

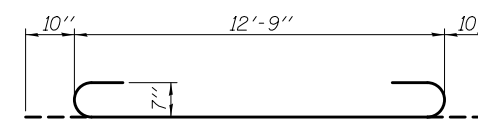
PLAN



SECTION THRU BARREL

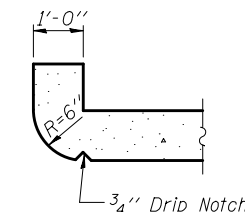


BAR d(E)



BAR a1(E)

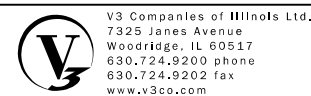
* a1 bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bars to be used in opposite end of culvert and stage line.



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|------|---------|--------|
| a(E) | 82 | #4 | 12'-9" | — |
| a1(E) | 306 | #7 | 14'-5" | U |
| a2(E) | 2 | #4 | 13'-9" | — |
| d(E) | 56 | #4 | 5'-5" | L |
| h(E) | 114 | #4 | 37'-0" | — |
| h1(E) | 114 | #4 | 38'-7" | — |
| h2(E) | 20 | #6 | 13'-9" | — |
| v(E) | 282 | #5 | 7'-11" | — |
| Concrete Box Culverts | | | Cu. Yd. | 106.8 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 18,440 |
| Bar Splicers | | | Each | 114 |

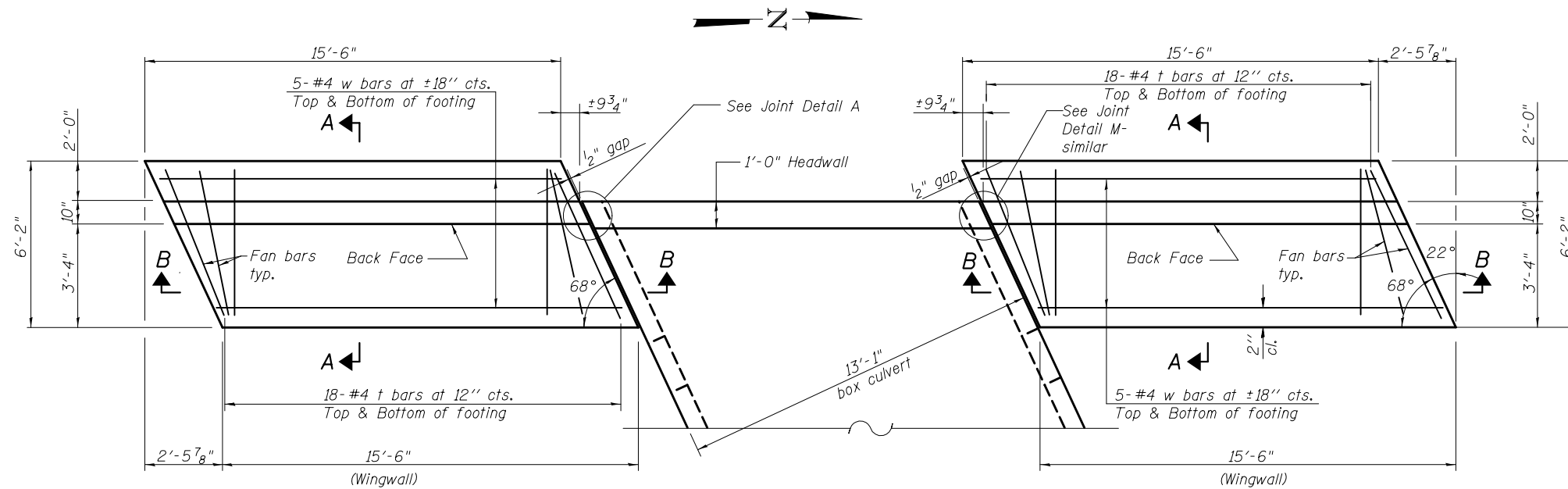


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| USER NAME = | DESIGNED WJV | REVISED |
| PLOT SCALE = | CHECKED CCF | REVISED |
| PLOT DATE = | DRAWN CCF | REVISED |
| | CHECKED WJV | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

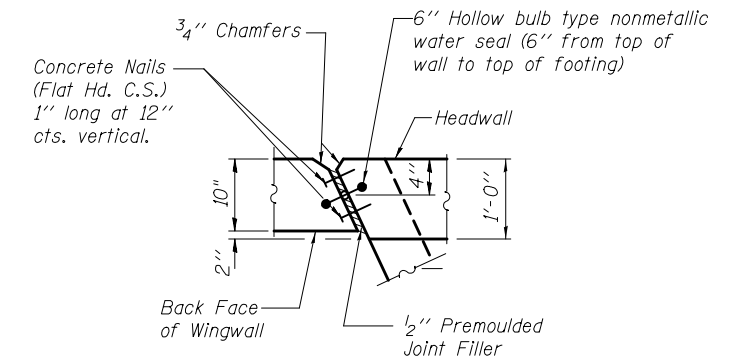
CULVERT DETAILS
STRUCTURE NO. 080-8642
SHEET NO. 3 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|--------------------|
| 116 | 1251 | RICHLAND | 198 | 54 |
| | | | | CONTRACT NO. 74616 |
| ILLINOIS FED. AID PROJECT | | | | |

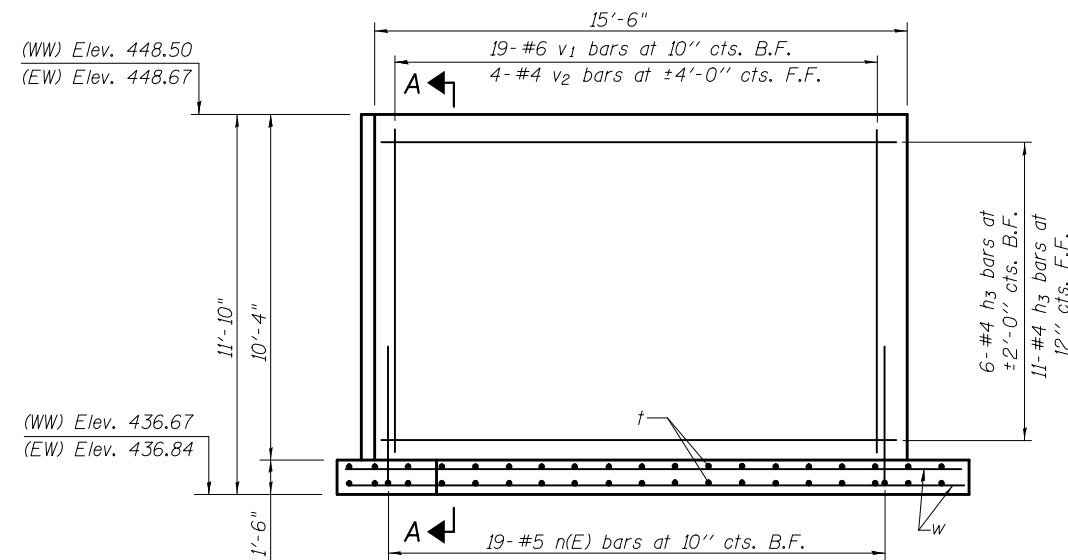


**WINGWALL PLAN
(SHOWING WEST SIDE)**

(Wingwall Plan East Side similar-rotate 180°)

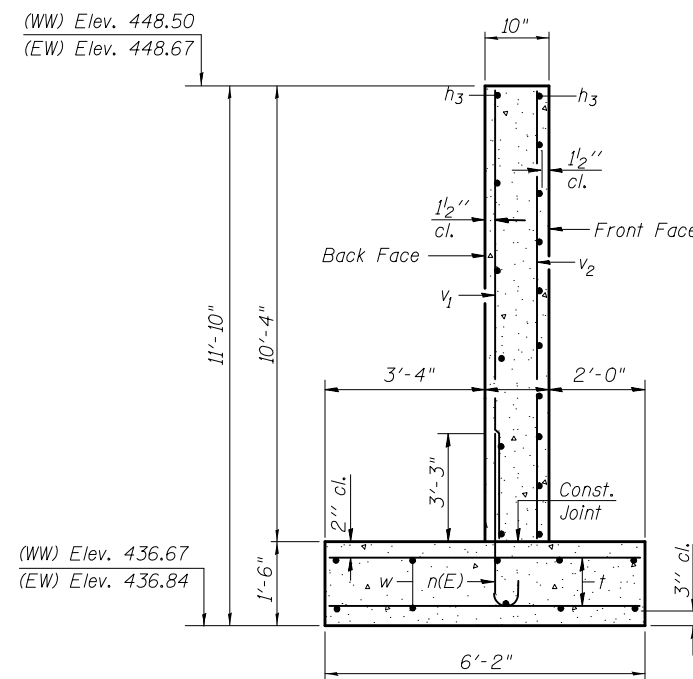


JOINT DETAIL A



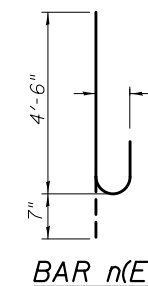
SECTION B-B

(box culvert not shown for clarity)



SECTION A-A

Max. Soil Pressure under footing = 1930 psf



BAR n(E)

**BILL OF MATERIAL
(For 4 Wingwalls)**

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|--------|-------|
| h ₃ | 68 | #4 | 15'-2" | — |
| n(E) | 76 | #5 | 5'-1" | U |
| t | 144 | #4 | 5'-10" | — |
| v ₁ | 76 | #6 | 10'-0" | — |
| v ₂ | 16 | #4 | 10'-0" | — |
| w | 40 | #4 | 15'-2" | — |
| Concrete Box Culverts | | Cu. Yd. | | 41.0 |
| Reinforcement Bars, Epoxy Coated | | Pound | | 410 |
| Reinforcement Bars | | Pound | | 2,910 |

Notes:
(EW)=East Wingwalls, (WW)=West Wingwalls, B.F.=Back Face,
F.F.=Front Face



| | | |
|--------------|--------------|---------|
| USER NAME = | DESIGNED WJV | REVISOR |
| PLOT SCALE = | CHECKED CCF | REVISOR |
| PLOT DATE = | DRAWN CCF | REVISOR |
| | CHECKED WJV | REVISOR |

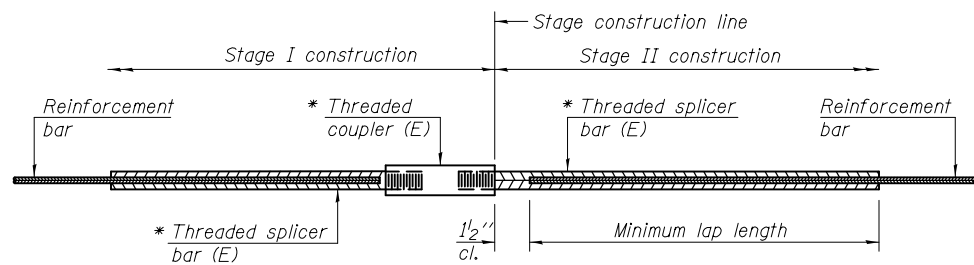
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS
STRUCTURE NO. 080-8642**

SHEET NO. 4 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 55 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

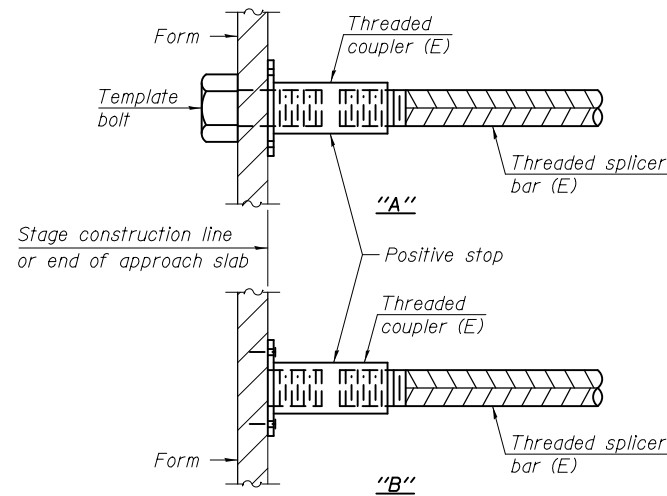
| Minimum Lap Lengths | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-7" | 2'-11" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 3'-3" | 3'-8" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-10" | 4'-5" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 5'-2" | 5'-10" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 6'-9" | 7'-8" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 8'-7" | 9'-8" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

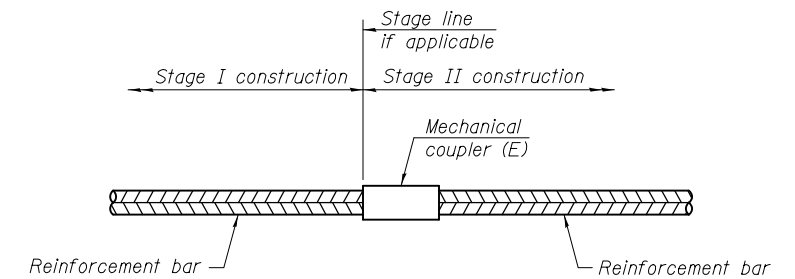
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|-------------|----------|-------------------------|------------------------------|
| Top Slab | #4 | 46 | 3 |
| Bottom Slab | #4 | 46 | 3 |
| Walls | #4 | 22 | 3 |
| | | | |



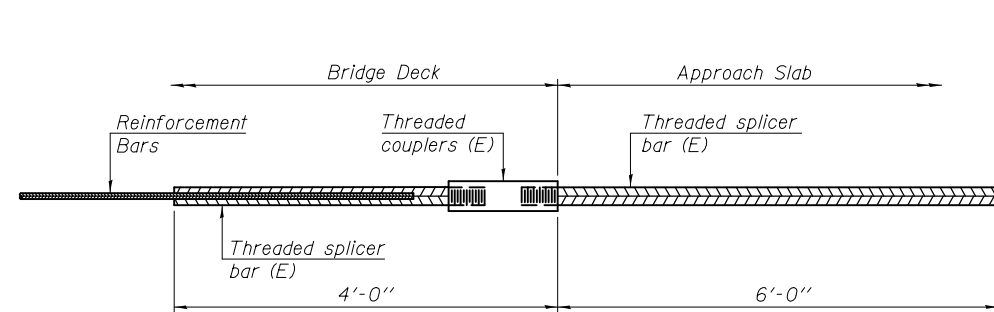
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



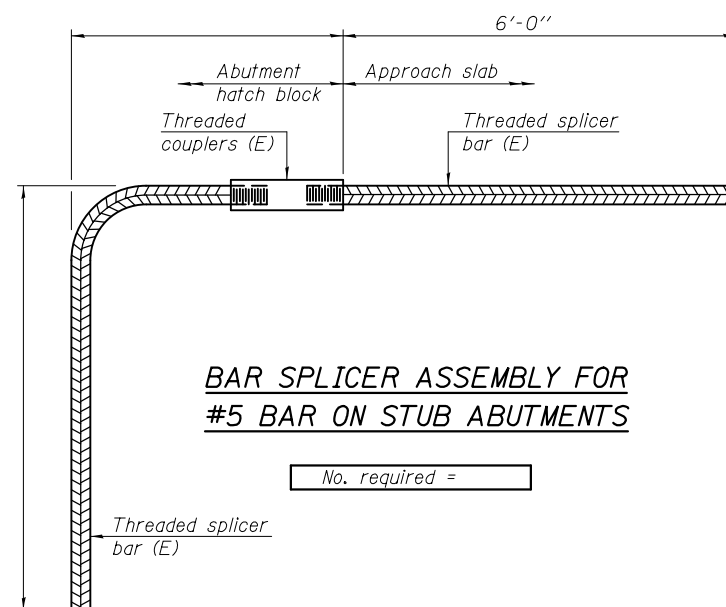
STANDARD MECHANICAL SPLICER

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



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

1-27-12



| | | |
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| USER NAME = | DESIGNED WJV | REVISED |
| PLOT SCALE = | CHECKED CCF | REVISED |
| PLOT DATE = | DRAWN CCF | REVISED |
| | CHECKED WJV | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

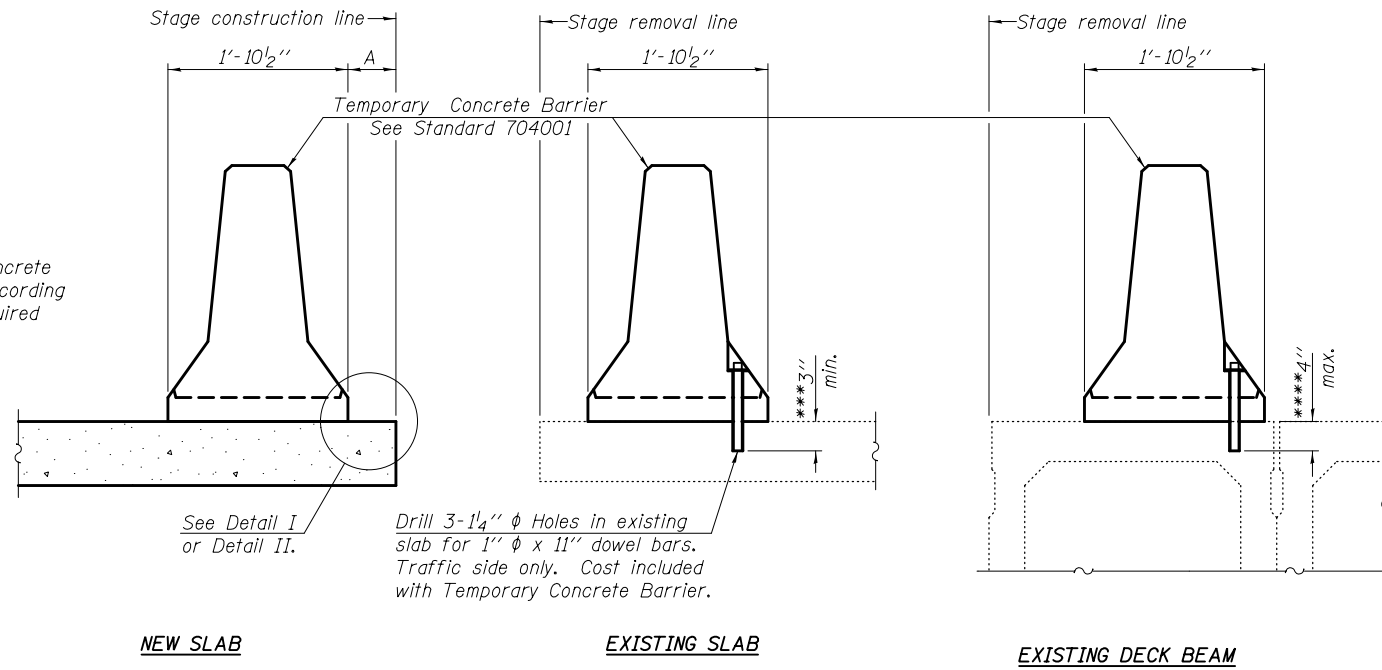
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 080-8642

SHEET NO. 5 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 56 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

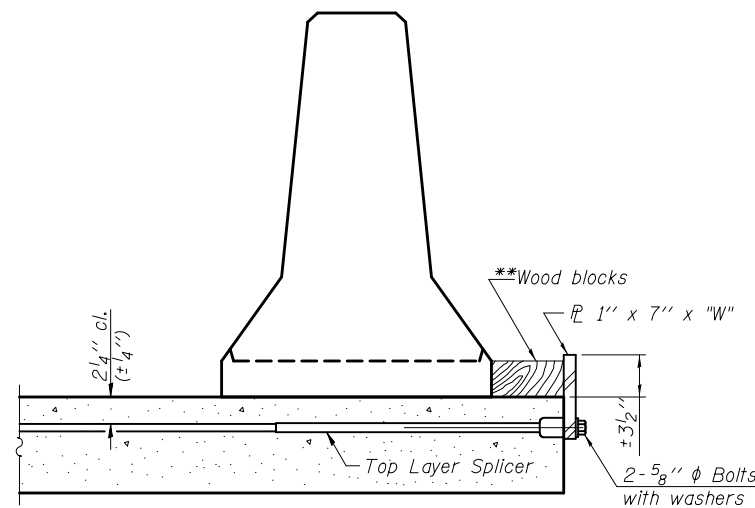
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

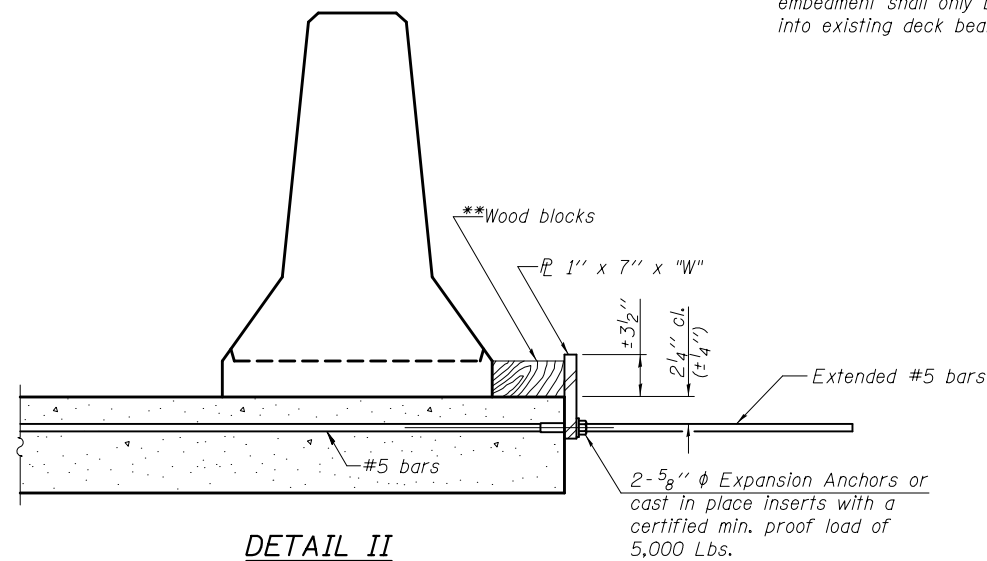
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

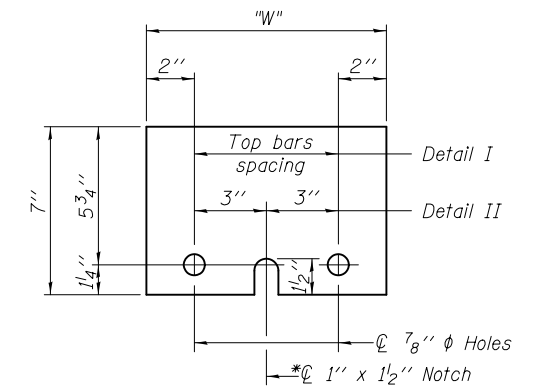
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

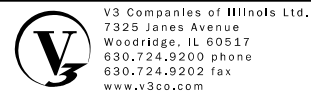
* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10



| | | |
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| USER NAME = | DESIGNED WJV | REVISED |
| CHECKED CCF | REVISOR | REVISOR |
| PLOT SCALE = | DRAWN CCF | REVISOR |
| PLOT DATE = | CHECKED WJV | REVISOR |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 080-8642**

SHEET NO. 6 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 57 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1
Date 8/15/11

ROUTE FAP 116 (IL 130) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer
SECTION (124,125,126)RS-3 LOCATION S 1/2, SEC. 34, TWP. 3 N, RNG. 10 E, 3 PM
COUNTY Richland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

| STRUCT. NO. | BORING NO. | Station | Ground Surface Elev. | DEPTH (ft) | SOIL TYPE | U.C.S. (tsf) | M.O.S.T. (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. |
|---|------------|---------|----------------------|------------|-----------|--------------|--------------|---------------------|------------------|-------------------|-----------------|-----------------|---------------|
| 080-8624 | 1 (North) | 309+87 | 451.54 | | | | | 442.39 | 441.84 | | Dry | Dry | 437.5 |
| 11" aggregate shoulder. | | | | | | | | | | | | | |
| Brown, SANDY LOAM. | | | | | | | | | | | | | |
| Rock stuck in sampler shoe, no recovery. | | | | | | | | | | | | | |
| Rock stuck in sampler shoe, no recovery. | | | | | | | | | | | | | |
| Medium, damp, gray marbled reddish brown, CLAY. | | | | | | | | | | | | | |
| Very stiff. | | | | | | | | | | | | | |
| Very dense, moist, gray, CLAY LOAM SHALE. | | | | | | | | | | | | | |
| Samples pokerchipped and powdered, unable to test for Qu. | | | | | | | | | | | | | |
| Very dense, moist, gray, SANDY CLAY SHALE. | | | | | | | | | | | | | |
| Extent of exploration. | | | | | | | | | | | | | |

File Name: S:\NEW\GEO\TECH\CHICAGO\DATA\PROJ\ECTS\BCH\ANS_CD_0801080-8624_SOIL_2011.GPJ Data Template: DTE\MPLT.GDT Date Printed: 11/09/02
Latitude: N 38 deg 05.079 min Longitude: N 38 deg 38.937 min Datum: Job Number:

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

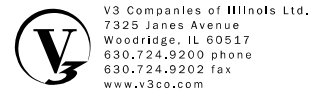
Page 1 of 1
Date 8/15/11

ROUTE FAP 116 (IL 130) DESCRIPTION Un-named Stream LOGGED BY E. Sandschafer
SECTION (124,125,126)RS-3 LOCATION S 1/2, SEC. 34, TWP. 3 N, RNG. 10 E, 3 PM
COUNTY Richland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

| STRUCT. NO. | BORING NO. | Station | Ground Surface Elev. | DEPTH (ft) | SOIL TYPE | U.C.S. (tsf) | M.O.S.T. (%) | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. |
|--|------------|---------|----------------------|------------|-----------|--------------|--------------|---------------------|------------------|-------------------|-----------------|-----------------|---------------|
| 080-8624 | 2 (South) | 309+87 | 451.45 | | | | | 442.39 | 441.84 | | Dry | Dry | 440.5 |
| 10" aggregate shoulder. | | | | | | | | | | | | | |
| Rock stuck in sampler shoe, no recovery. | | | | | | | | | | | | | |
| Medium, damp, brown marbled gray, SILTY LOAM. | | | | | | | | | | | | | |
| Medium, damp, gray, SANDY LOAM. | | | | | | | | | | | | | |
| Very stiff, damp, reddish brown/gray, SILTY CLAY. | | | | | | | | | | | | | |
| Very dense, very moist, gray & reddish brown layered, CLAY LOAM SHALE. | | | | | | | | | | | | | |
| Sample pokerchipped and powdered, unable to test for Qu. | | | | | | | | | | | | | |
| Very dense, moist, gray, SANDY CLAY SHALE. | | | | | | | | | | | | | |
| Sample pokerchipped and powdered, unable to test for Qu. | | | | | | | | | | | | | |
| Extent of exploration. | | | | | | | | | | | | | |

File Name: S:\NEW\GEO\TECH\CHICAGO\DATA\PROJ\ECTS\BCH\ANS_CD_0801080-8624_SOIL_2011.GPJ Data Template: DTE\MPLT.GDT Date Printed: 11/09/02
Latitude: N 38 deg 05.080 min Longitude: N 38 deg 38.937 min Datum: Job Number:

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| USER NAME = | DESIGNED WJV | REVISED |
| PLOT SCALE = | CHECKED CCF | REVISED |
| PLOT DATE = | DRAWN CCF | REVISED |
| | CHECKED WJV | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 080-8642
SHEET NO. 7 OF 7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 58 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

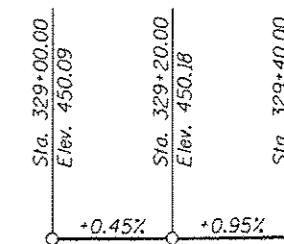
Benchmarks: Chiseled square on headwall southeast corner of S.N. 080-8623, Sta. 329+25, 23.5' Lt., Elev. 448.19

Existing Structure: S.N. 080-8623 built in 1928 as S.B.I. 130 Section 125 at Sta. 329+20 as a 12' x 8' single cell cast-in-place R.C. culvert. Existing culvert to be removed and replaced. Traffic maintained utilizing stage construction.

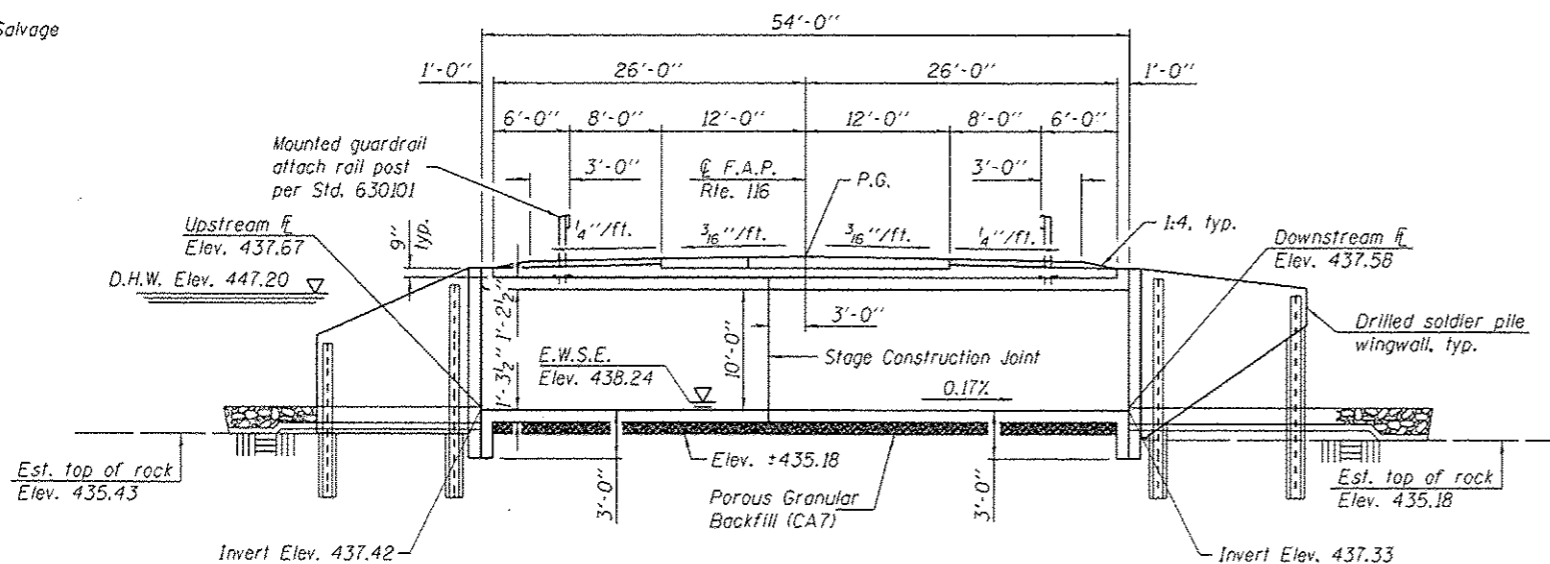
No Salvage

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction & Temporary Soil Retention System Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5-7 Culvert Details
- 8-12 Wingwall Details
- 13 Bar Splicer Assembly & Mechanical Splicer Details
- 14 Soil Boring Logs



PROFILE GRADE
(Along C.Rdwy.)



LONGITUDINAL SECTION
(Looking South)
(Horiz. Dim. @ Rt. L's to Rdwy.)

STATION 329+20.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 116 SEC. 1251
LOADING HL-93
STRUCTURE NO. 080-2006

NAME PLATE
See Std. 515001

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

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS
2012 AASHTO LRFD Bridge
Design Specifications, 6th Edition

DESIGN SCOUR ELEVATION TABLE

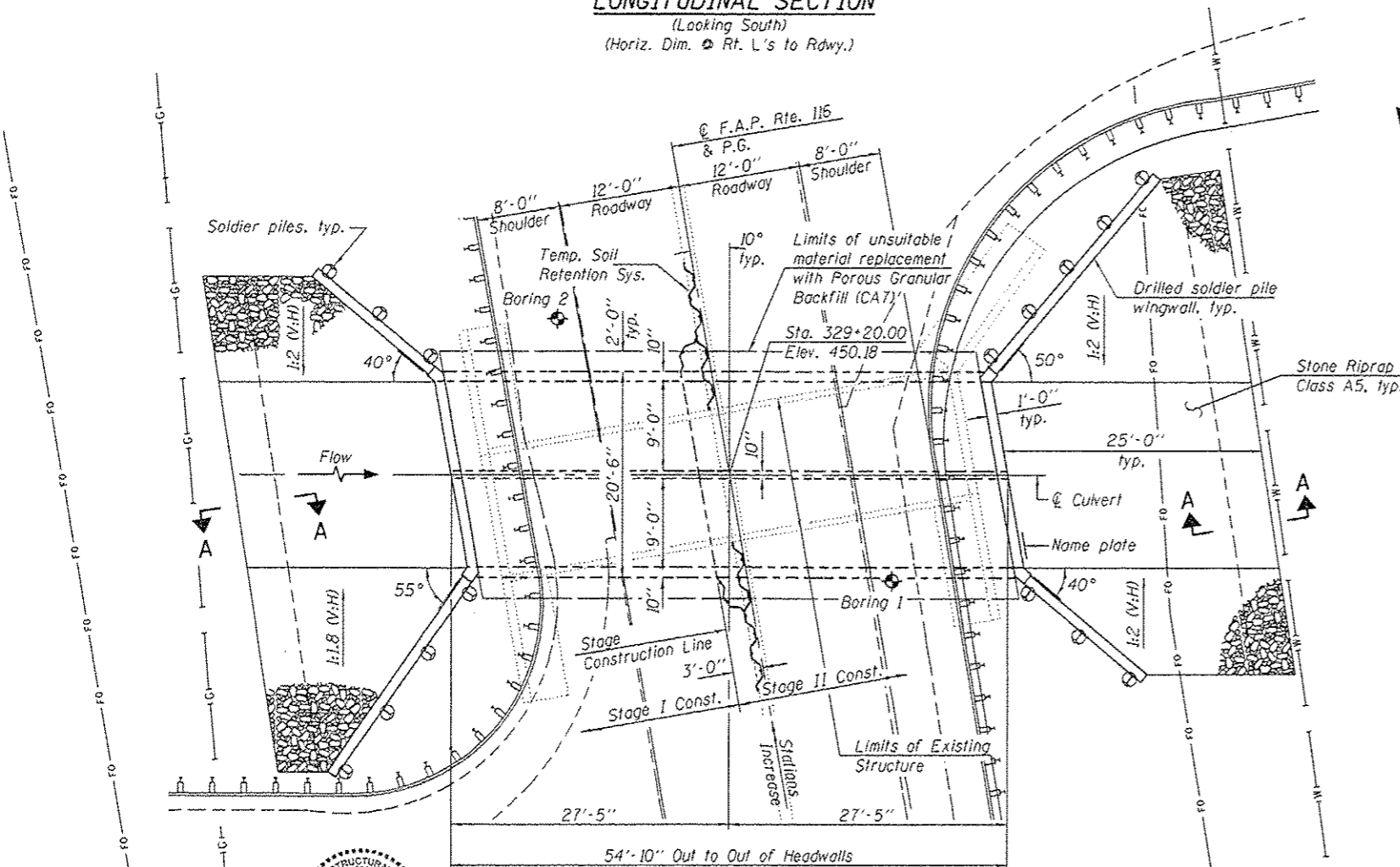
| Design Scour Elevation (ft.) | U.S. Invert | D.S. Invert |
|------------------------------|-------------|-------------|
| | 434.42 | 434.33 |

WATERWAY INFORMATION

Drainage Area = 2.46 sq. mi. Low Grade Elev. 449.84 @ Sta. 328+50

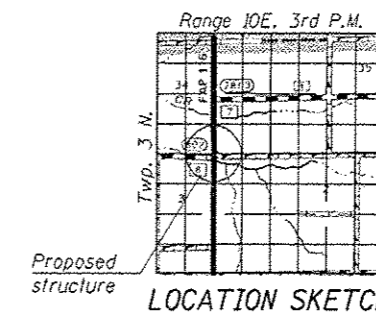
| Flood | Freq. Yr. | Opening Sq. Ft. | | Head - Ft. | | Headwater E.I. | | | |
|--------------------|-----------|-----------------|-------|---------------|--------------|----------------|-------|-------|-------|
| | | Exist. | Prop. | H.W.E. Exist. | H.W.E. Prop. | Exist. | Prop. | | |
| Design | 10 | 1130 | 96 | 160 | 446.3 | 3.7 | 0.6 | 450.0 | 446.8 |
| Base | 50 | 1880 | 96 | 176 | 447.2 | 3.9 | 1.8 | 451.1 | 449.0 |
| Overtopping Exist. | 100 | 2230 | 96 | 180 | 447.6 | 3.8 | 2.6 | 451.4 | 450.2 |
| Overtopping Prop. | 10 | 1130 | 96 | | 446.3 | 3.7 | | 450.0 | |
| Max. Calc. | 90 | 2170 | | 180 | 447.5 | | 2.5 | 447.5 | 450.0 |
| | 500 | 3110 | 96 | 180 | 448.3 | 3.7 | 2.8 | 451.9 | 451.1 |

10 Year velocity through existing bridge = 11.8 ft/s
10 Year velocity through proposed bridge = 7.1 ft/s



PLAN

Note: The existing fiber optic cable near the S.W. wingwall to be relocated by others prior to drilling and setting the soldier piles.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 130 OVER
TURKEY CREEK
F.A.P. ROUTE 116
SEC. 1251
RICHLAND COUNTY
STA. 329+20.00
STRUCTURE NO. 080-2006

DESIGNED - P. Garklys
CHECKED - Kelly Vandy
DRAWN - h.t. Quong
CHECKED - P. Garklys / ADY

EXAMINED - [Signature]
PASSED - [Signature]
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - 3/24/2015
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 14 SHEETS

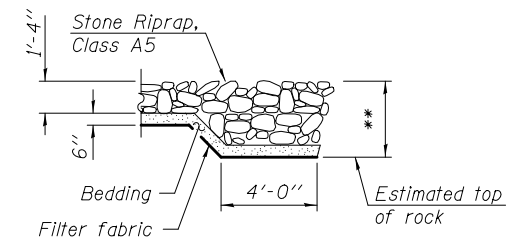
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 59 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Precast alternate is not allowed.
 The limits and quantities of removal of unsuitable material and replacement with porous granular backfill shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
 Steel plate beam guardrail attached to structures should be according to Highway Standard 630101, Case IV except that the 1 1/2" φ holes in the top shall be formed (instead of cored) for the threaded rods.
 The cutoff walls will extend into existing rock. The Contractor shall trench into the rock 6" below bottom of the proposed cutoff wall and backfill to bottom of proposed cutoff walls with porous granular backfill. Cost is included with Rock Excavation for Structures.



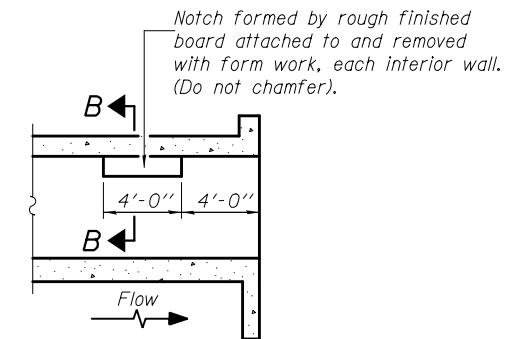
SECTION A-A

**As required based on rock elevation (2'-8" max.)

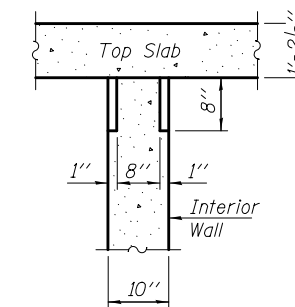
TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|---------|-------|
| Removal and Disposal of Unsuitable Material for Structures | Cu. Yd. | 48.5 |
| Stone Riprap, Class A5 | Sq. Yd. | 231 |
| Filter Fabric | Sq. Yd. | 231 |
| Removal of Existing Structures | Each | 1 |
| *Structure Excavation | Cu. Yd. | 46.1 |
| Rock Excavation for Structures | Cu. Yd. | 1 |
| Concrete Structures | Cu. Yd. | 28.5 |
| Reinforcement Bars, Epoxy Coated | Pound | 25520 |
| Bar Splicers | Each | 145 |
| Temporary Soil Retention System | Sq. Ft. | 397 |
| Name Plates | Each | 1 |
| Stud Shear Connectors | Each | 116 |
| Concrete Box Culverts | Cu. Yd. | 159.4 |
| Geocomposite Wall Drain | Sq. Yd. | 32 |
| Porous Granular Backfill | Cu. Yd. | 37.8 |
| Drilling and Setting Soldier Piles (In Rock) | Cu. Ft. | 738 |
| Drilling and Setting Soldier Piles (In Soil) | Cu. Ft. | 816 |
| Furnishing Soldier Piles (W Section) | Foot | 316 |
| Steel Plate Beam Guardrail, Attached to Structures | Foot | 42 |
| Untreated Timber Lagging | Sq. Ft. | 636 |

*This pay item is for 2' in front of the CIP facing of the walls, not for the culvert. Excavation for culvert is included with Concrete Box Culverts.



LONGITUDINAL SECTION



SECTION B-B

**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**

| | | |
|-------------------------|---|-----------------------|
| DESIGNED - Paul Gurkiys | EXAMINED - <i>Joanne F. [Signature]</i> ENGINEER OF BRIDGE DESIGN | DATE - MARCH 24, 2015 |
| CHECKED - Ally D. Yancy | PASSED - <i>Carl [Signature]</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED |
| DRAWN - h.t. duong | | REVISED |
| CHECKED - PG/ADY | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

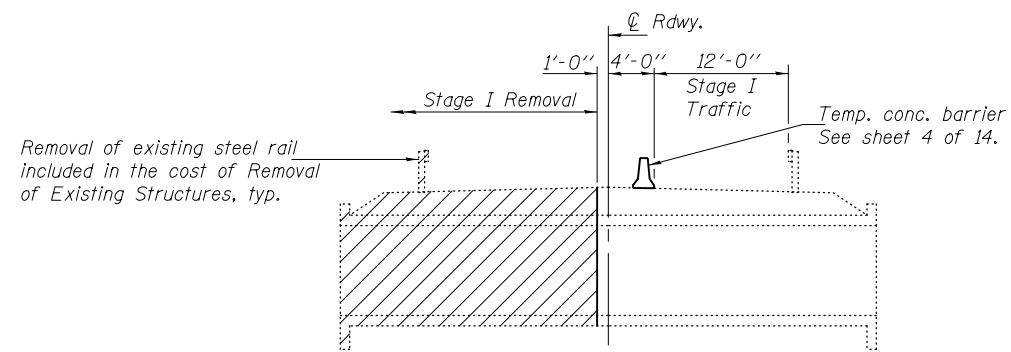
**GENERAL DATA
STRUCTURE NO. 080-2006**

SHEET NO. 2 OF 14 SHEETS

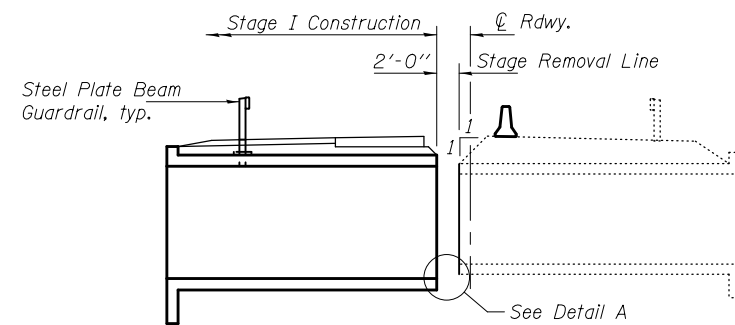
| | | | | |
|--------------------|---------|----------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 60 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

*Assumed 1'-0" removal of unsuitable material at base of excavation.

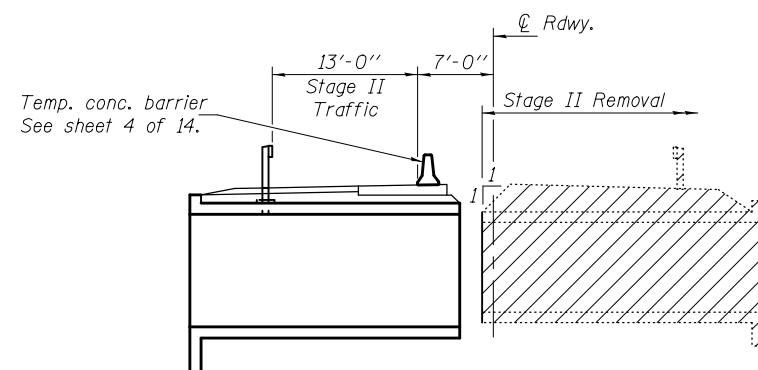
**To be verified in the field by the Contractor.



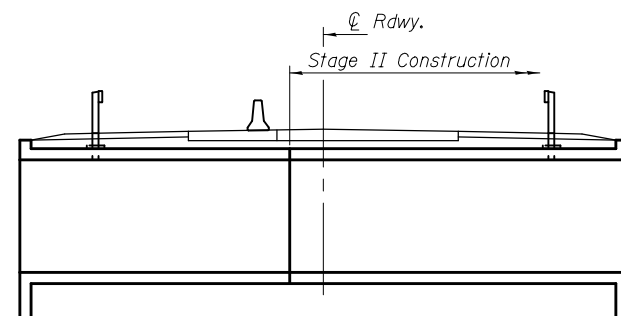
STAGE I REMOVAL



STAGE I CONSTRUCTION

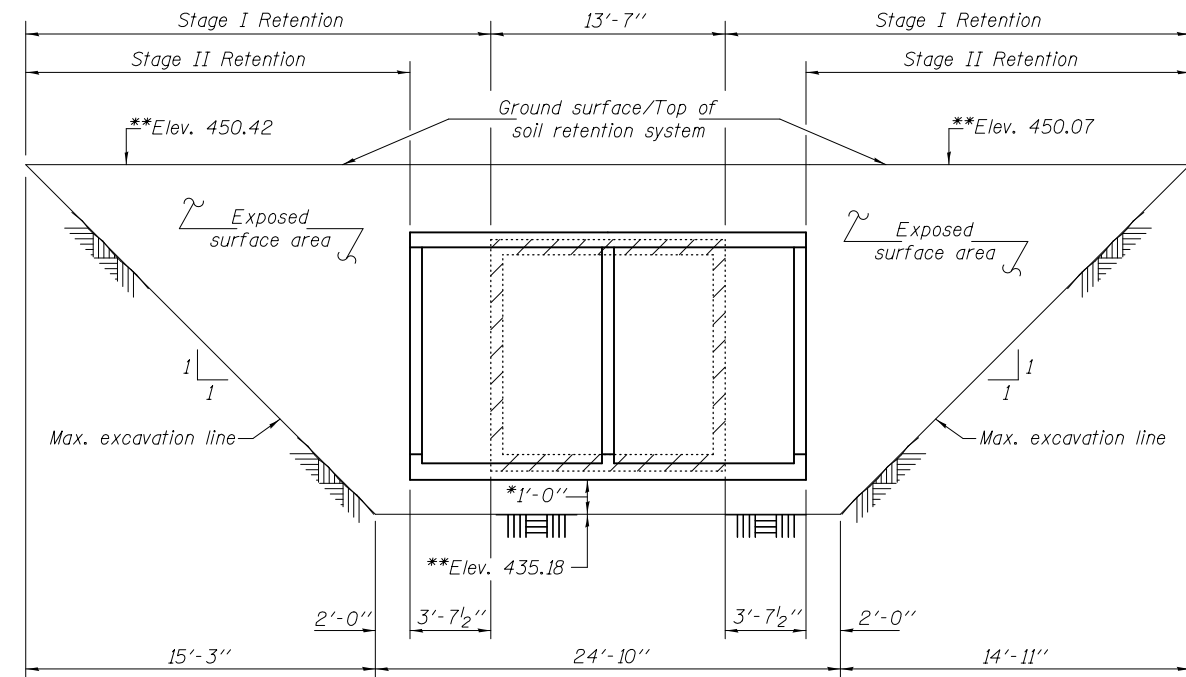


STAGE II REMOVAL



STAGE II CONSTRUCTION

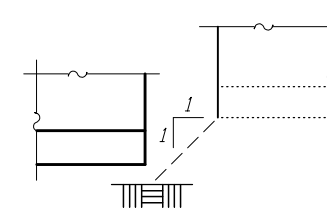
Notes: All sections are looking south.
Hatched area indicates removal of existing structures.
For quantity of temporary concrete barrier, see Roadway Plans.



TEMPORARY SOIL RETENTION SYSTEM

Looking west
(Perpendicular to C.Rdwy. & PGL)

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



DETAIL A

| | | |
|-------------------------|---|-----------------------|
| DESIGNED - Paul Gurkiys | EXAMINED - <i>Joanne F. [Signature]</i> | DATE - MARCH 24, 2015 |
| CHECKED - Ally D. Yancy | PASSED - <i>Carl [Signature]</i> | REVISOR |
| DRAWN - h.t. duong | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISOR |
| CHECKED - PG/ADY | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

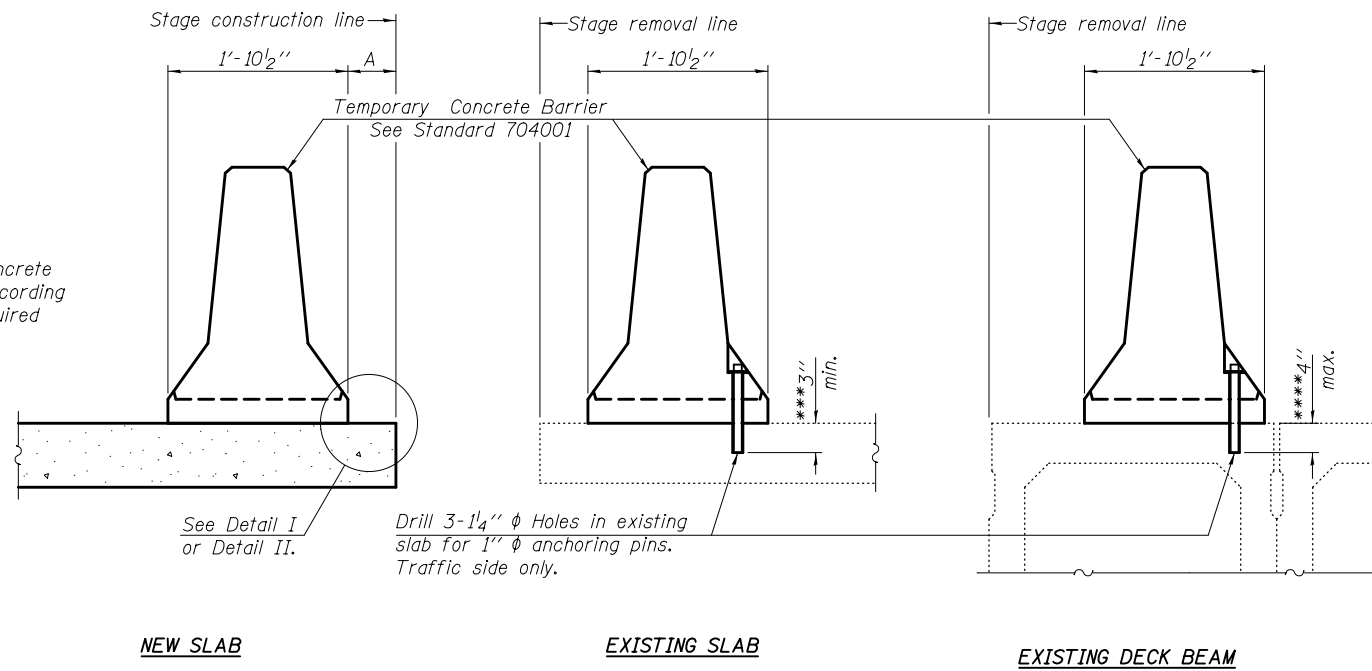
STAGE CONSTRUCTION & TEMP. SOIL RETENTION SYSTEM DETAILS
STRUCTURE NO. 080-2006

SHEET NO. 3 OF 14 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 61 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

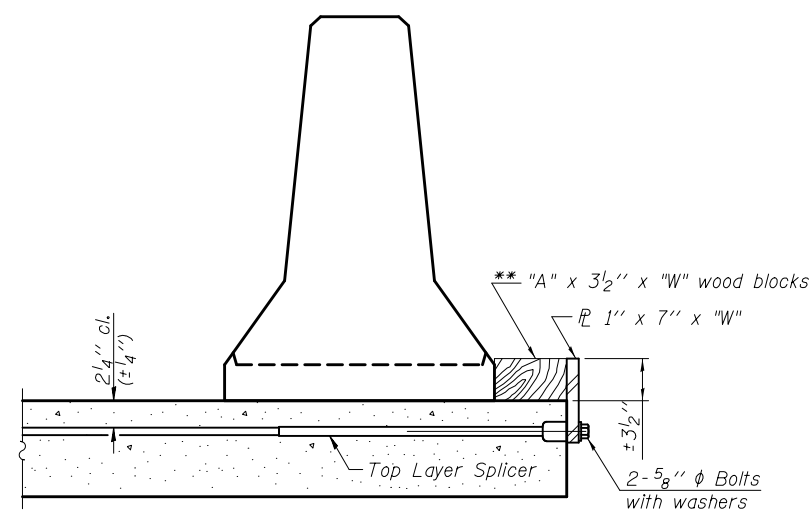
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

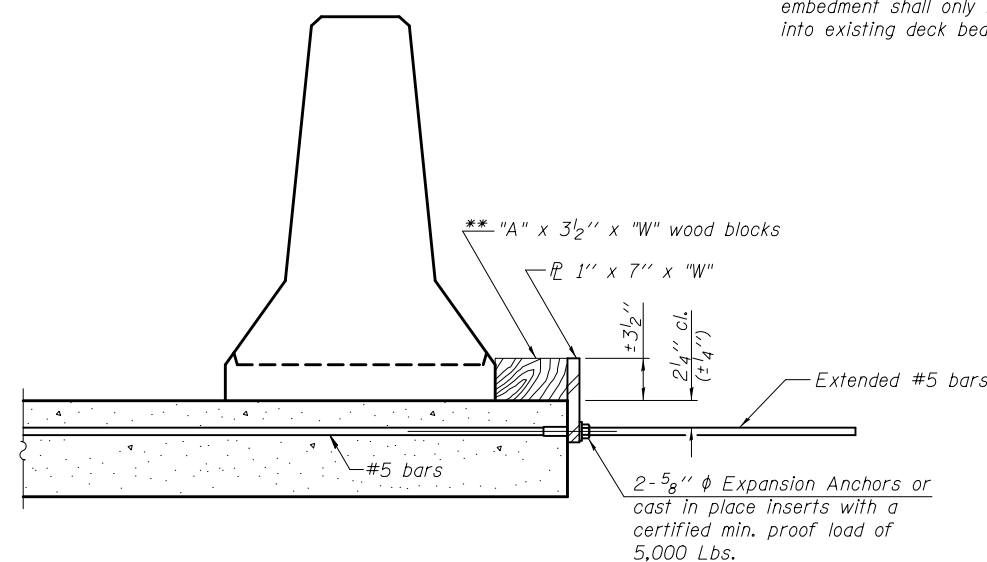
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

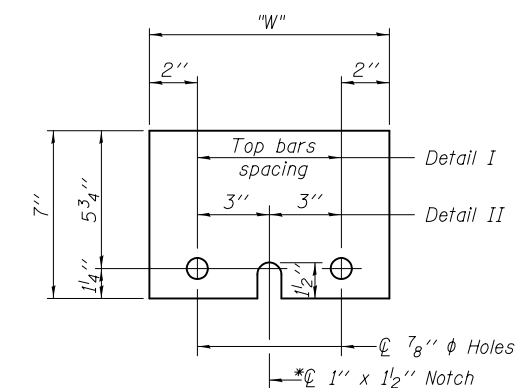
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27

1-12-15

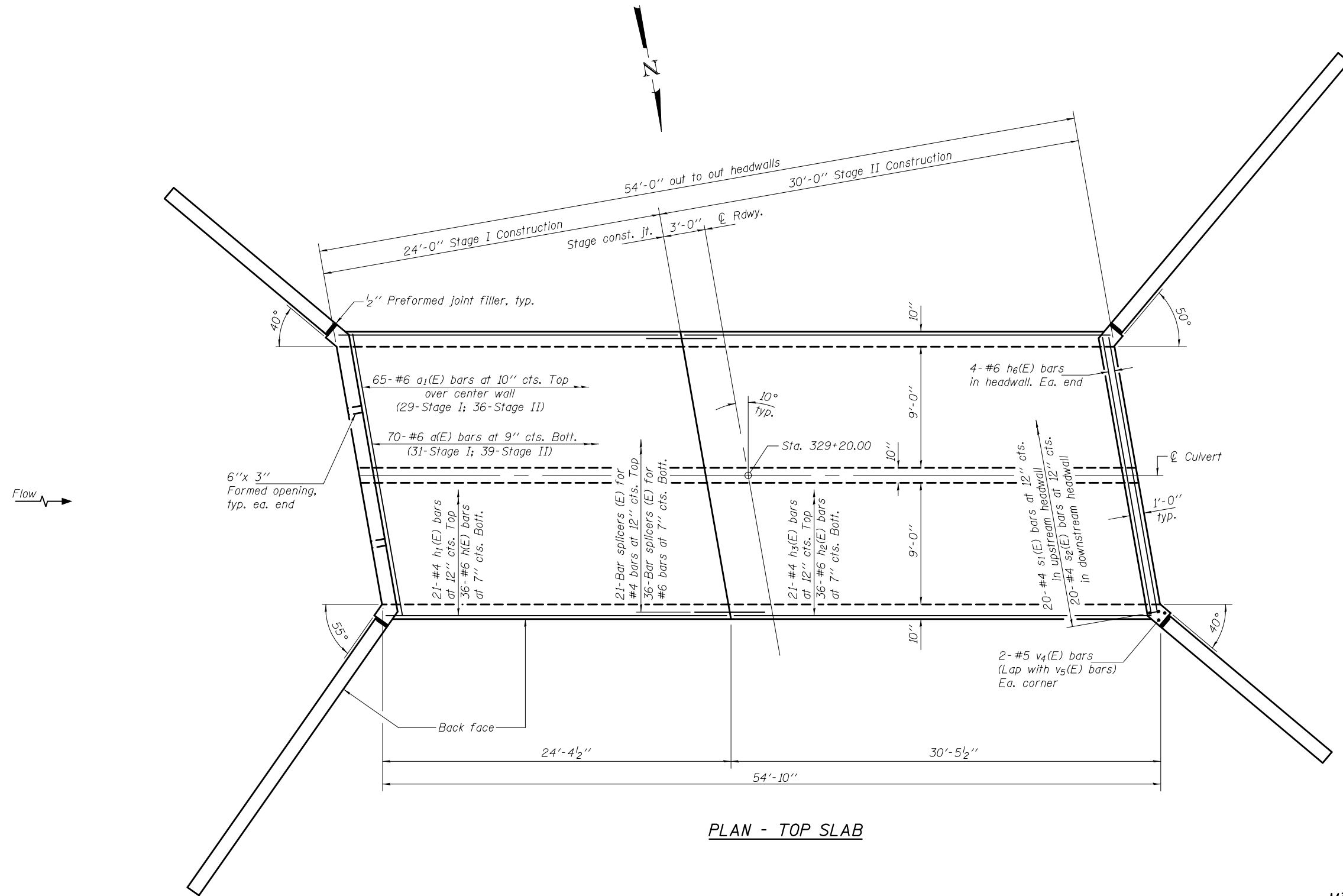
| | | |
|-------------------------|---|-----------------------|
| DESIGNED - Paul Gurkiys | EXAMINED - <i>Joanne F. [Signature]</i> | DATE - MARCH 24, 2015 |
| CHECKED - Ally D. Yancy | PASSED - <i>Carl [Signature]</i> | REVISED |
| DRAWN - h.t. duong | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED |
| CHECKED - PG/ADY | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 080-2006**

SHEET NO. 4 OF 14 SHEETS

| F.A.P. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 62 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

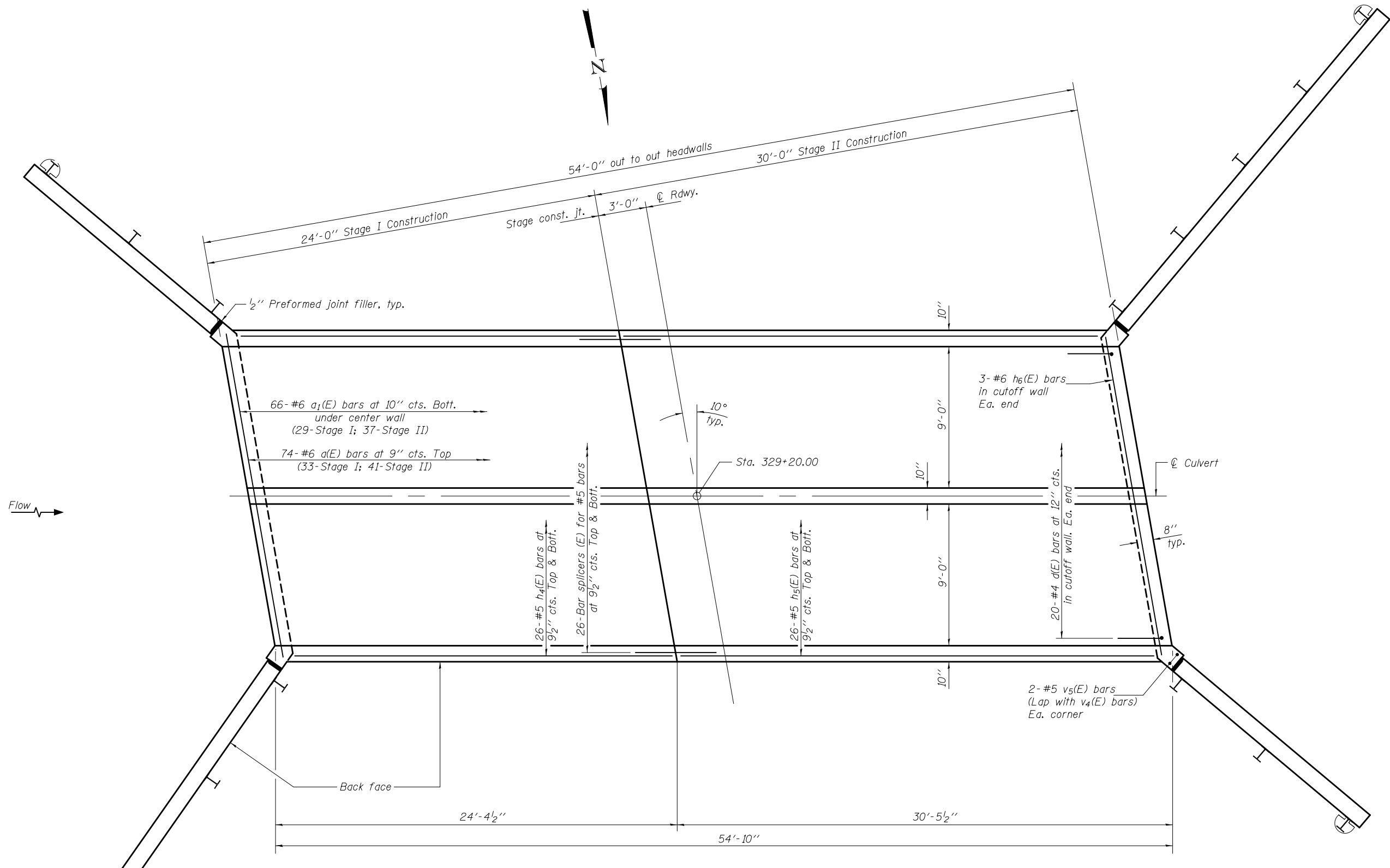


PLAN - TOP SLAB

MIN. BAR LAP
#5 bar = 2'-7"

Notes:
See sheet 7 of 14 for bar details & Bill of Material.
See sheet 13 of 14 for bar splicer details.
See sheets 8 thru 12 of 14 for wingwall details.

| | | | | | | | | | | |
|--|----------|-----------------------|---|---|--------------------------|---------|----------|--------------|-----------|--|
| DESIGNED - Paul Gurkiys | EXAMINED | DATE - MARCH 24, 2015 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CULVERT DETAILS STRUCTURE NO. 080-2006 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| CHECKED - Ally D. Yancy | PASSED | REVIS | | | 116 | 125I | RICHLAND | 198 | 63 | |
| DRAWN - h.t. duong | | REVIS | | | CONTRACT NO. 74616 | | | | | |
| CHECKED - PG/ADY | | | | | SHEET NO. 5 OF 14 SHEETS | | | | | |
| ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES | | | ILLINOIS FED. AID PROJECT | | | | | | | |



PLAN - BOTTOM SLAB

MIN. BAR LAP
#5 bar = 2'-7"

Notes:
See sheet 7 of 14 for bar details & Bill of Material.
See sheet 13 of 14 for bar splicer details.
See sheets 8 thru 12 of 14 for wingwall details.

| | | |
|-------------------------|--|-----------------------|
| DESIGNED - Paul Gurkiys | EXAMINED | DATE - MARCH 24, 2015 |
| CHECKED - Ally D. Yancy | <i>Joanne F. [Signature]</i> ENGINEER OF BRIDGE DESIGN | |
| DRAWN - h.t. duong | PASSED | REVISED |
| CHECKED - PG/ADY | <i>Carl [Signature]</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

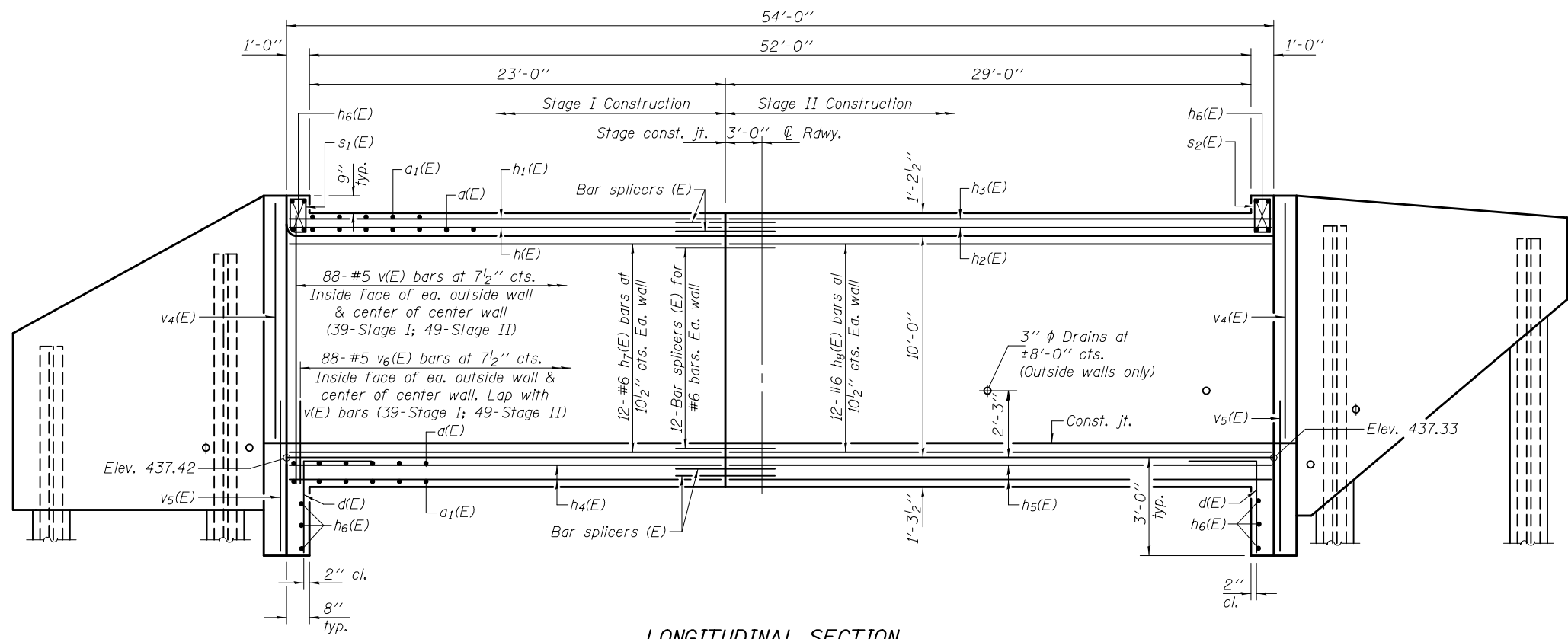
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 080-2006

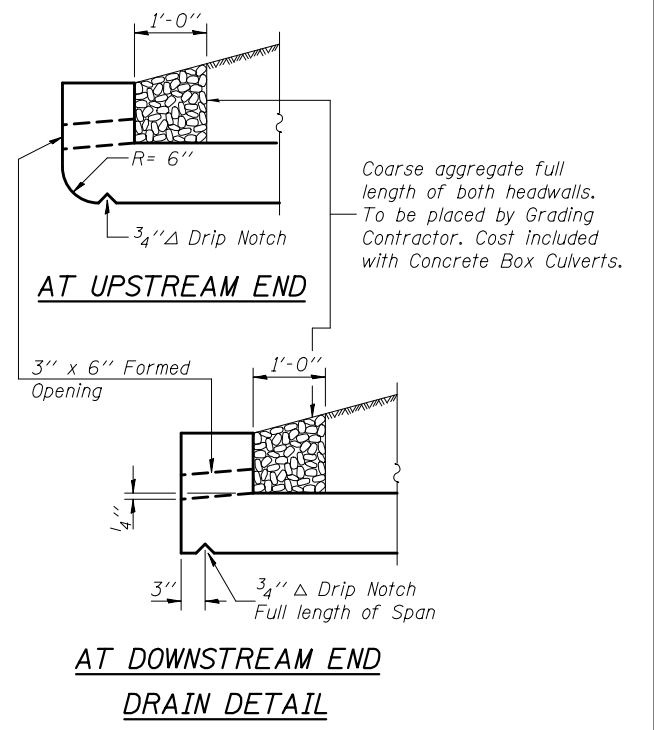
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|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 64 |
| CONTRACT NO. 74616 | | | | |

SHEET NO. 6 OF 14 SHEETS

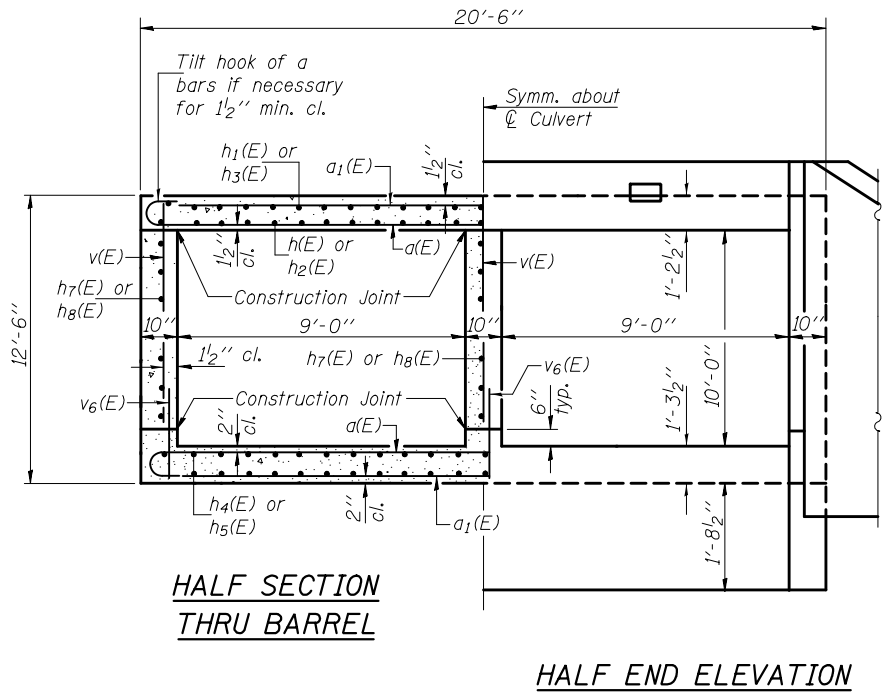
ILLINOIS FED. AID PROJECT



LONGITUDINAL SECTION
(Looking South)

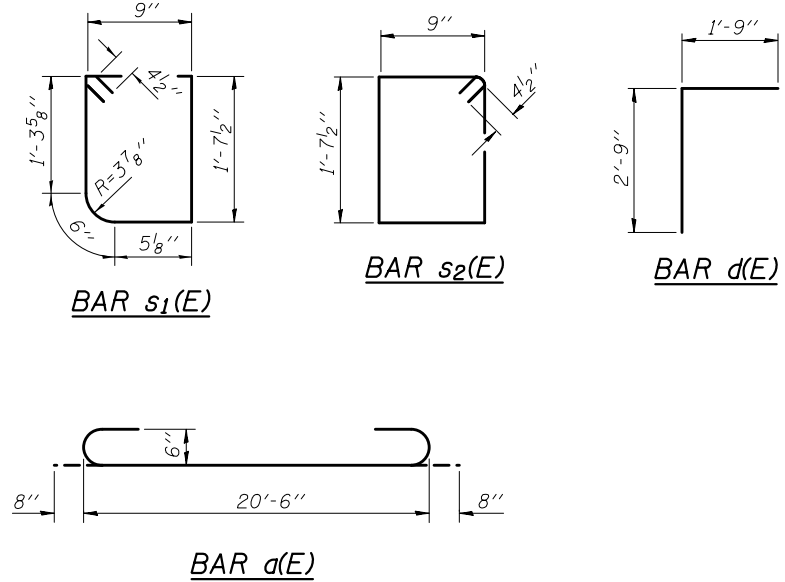


AT UPSTREAM END
AT DOWNSTREAM END
DRAIN DETAIL



HALF SECTION THRU BARREL

HALF END ELEVATION



MIN. BAR LAP
#5 bar = 2'-7"

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|---------|-------|
| a(E) | 144 | #6 | 21'-10" | U |
| a1(E) | 131 | #6 | 20'-6" | — |
| d(E) | 40 | #4 | 4'-6" | L |
| h(E) | 36 | #6 | 24'-1" | — |
| h1(E) | 21 | #4 | 24'-1" | — |
| h2(E) | 36 | #6 | 30'-2" | — |
| h3(E) | 21 | #4 | 30'-2" | — |
| h4(E) | 52 | #5 | 24'-1" | — |
| h5(E) | 52 | #5 | 30'-2" | — |
| h6(E) | 14 | #6 | 20'-6" | — |
| h7(E) | 36 | #6 | 24'-1" | — |
| h8(E) | 36 | #6 | 30'-2" | — |
| s1(E) | 20 | #4 | 5'-5" | □ |
| s2(E) | 20 | #4 | 5'-6" | □ |
| v(E) | 264 | #5 | 10'-5" | — |
| v4(E) | 8 | #5 | 11'-2" | — |
| v5(E) | 8 | #5 | 6'-2" | — |
| v6(E) | 264 | #5 | 4'-5" | — |
| Concrete Box Culverts | | Cu. Yd. | 159.4 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 23250 | |

DESIGNED - Paul Gurkiys
 CHECKED - Ally D. Yancy
 DRAWN - h.t. duong
 CHECKED - PG/ADY

EXAMINED - *Joanne F. Joffe*
 ENGINEER OF BRIDGE DESIGN

PASSED - *Carl Pinger*
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015

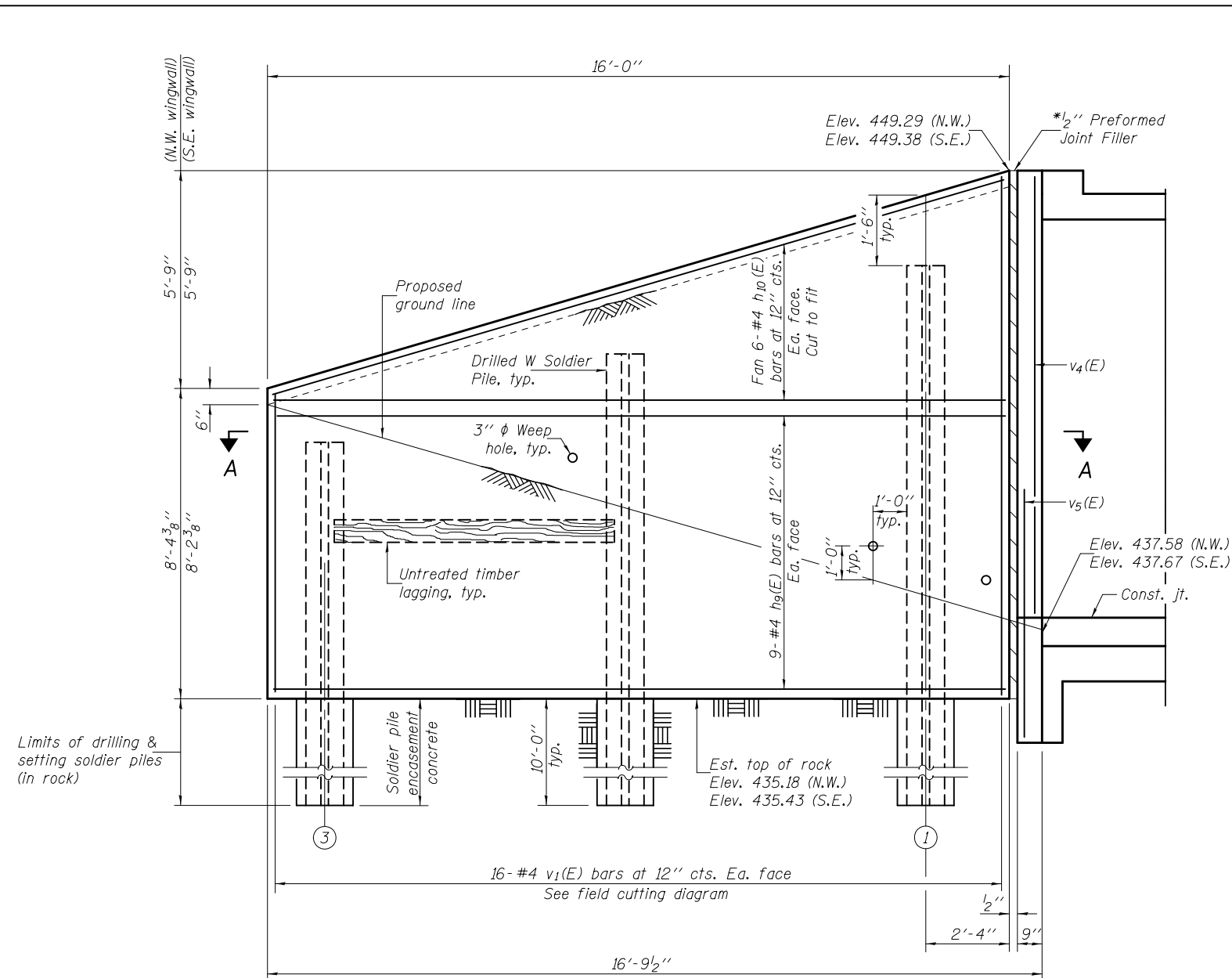
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

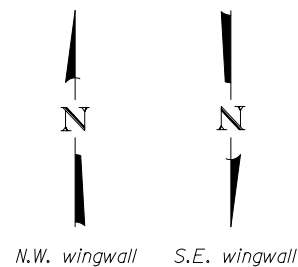
CULVERT DETAILS
STRUCTURE NO. 080-2006

SHEET NO. 7 OF 14 SHEETS

| | | | | |
|---------------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 65 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

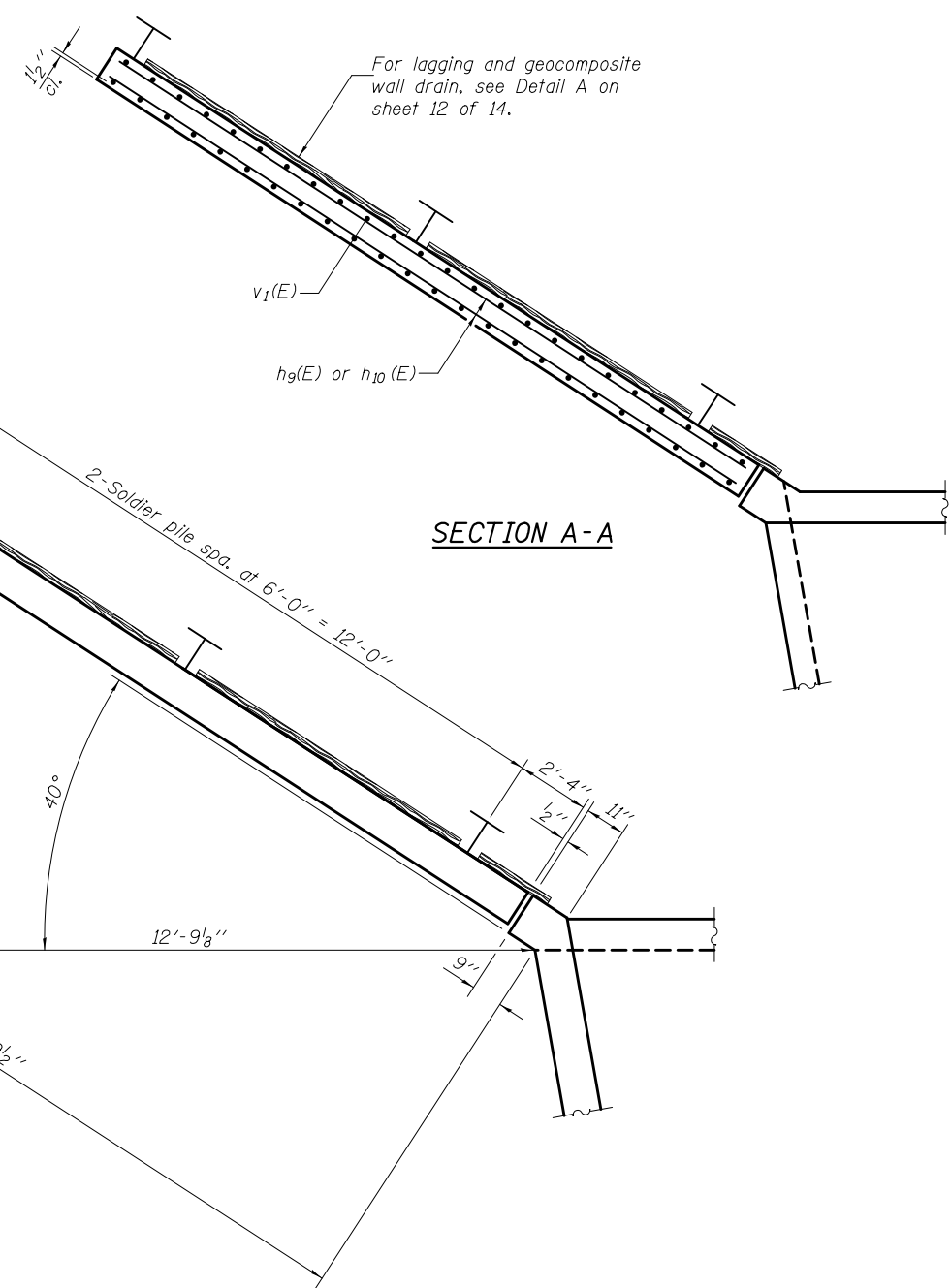


ELEVATION - NORTH WEST & SOUTH EAST WINGWALLS



**TWO WINGWALLS
BILL OF MATERIAL**

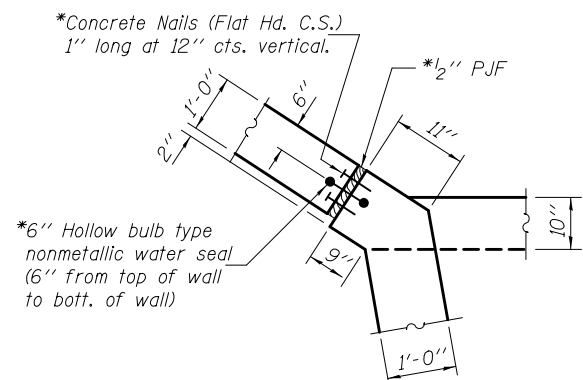
| Bar | No. | Size | Length | Shape |
|--|-----|---------|--------|-------|
| hg(E) | 36 | #4 | 15'-9" | — |
| h10(E) | 24 | #4 | 16'-8" | — |
| v1(E) | 32 | #4 | 21'-6" | — |
| Geocomposite Wall Drain | | Sq. Yd. | 12 | |
| Untreated Timber Lagging | | Sq. Ft. | 258 | |
| Stud Shear Connectors | | Each | 56 | |
| Furnishing Soldier Piles (W Section) | | Foot | 117 | |
| Concrete Structures | | Cu. Yd. | 13.2 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 1110 | |
| Drilling & Setting Soldier Piles (In Rock) | | Cu. Ft. | 295 | |
| Drilling & Setting Soldier Piles (In Soil) | | Cu. Ft. | 281 | |
| Structure Excavation | | Cu. Yd. | 33.8 | |



PLAN

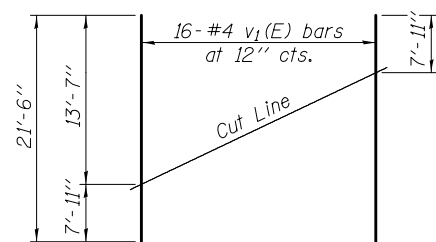
**CONSTRUCTION SEQUENCE FOR
SOLDIER PILE WINGWALLS**

1. Drill and set soldier piles.
2. Install timber lagging.
3. Place and compact backfill behind wall.
4. Install geocomposite wall drain.
5. Pour concrete facing.



CORNER DETAIL

*Cost included with Concrete Box Culverts.



FIELD CUTTING DIAGRAM

Order v1(E) bars full length. Cut as shown & use remainder of bars in opposite face.

DESIGNED - Paul Gurkiys
CHECKED - Ally D. Yancy
DRAWN - h.t. duong
CHECKED - PG/ADY

EXAMINED
PASSED
ENGINEER OF BRIDGE DESIGN
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015
REVISED
REVISED

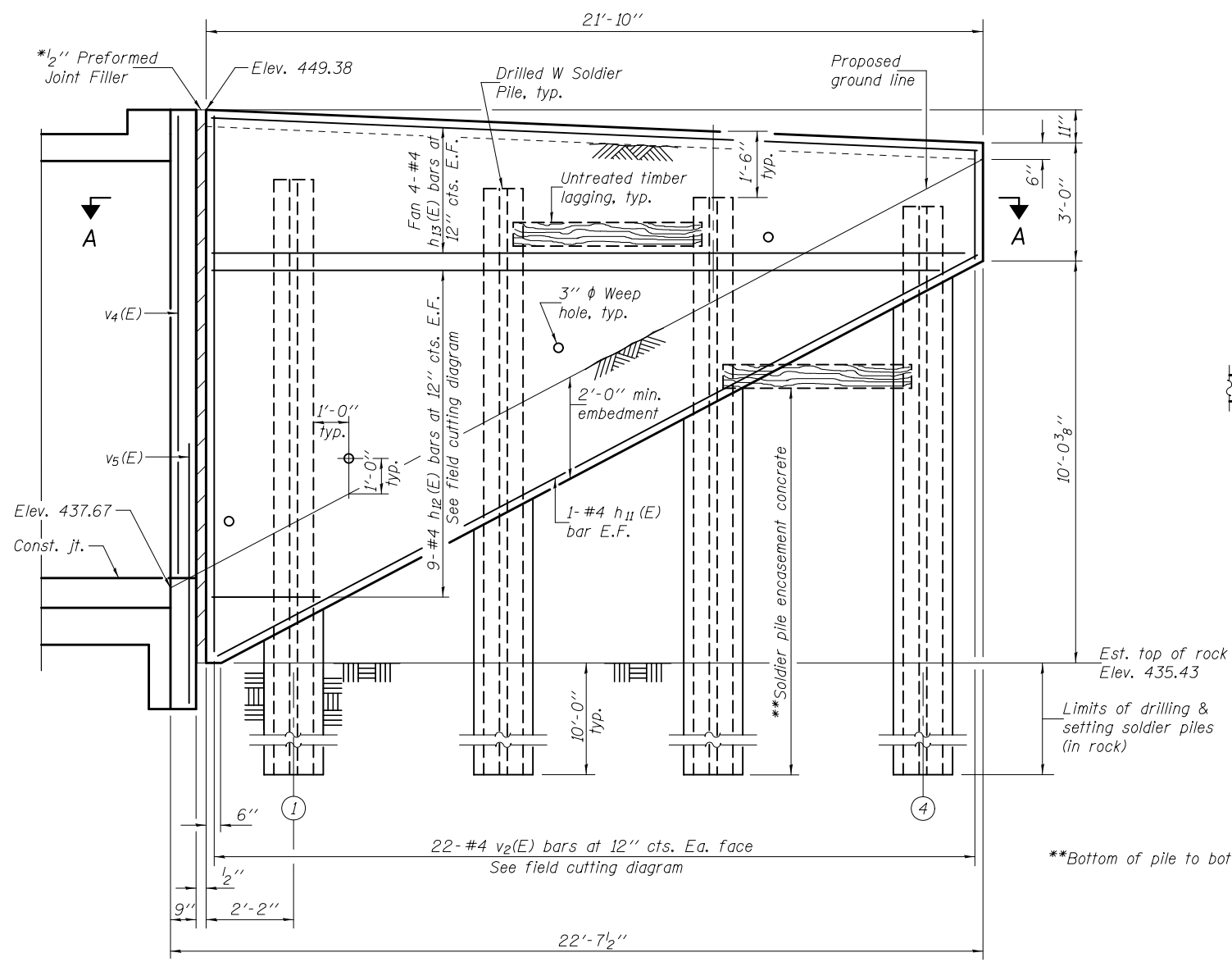
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS
STRUCTURE NO. 080-2006**

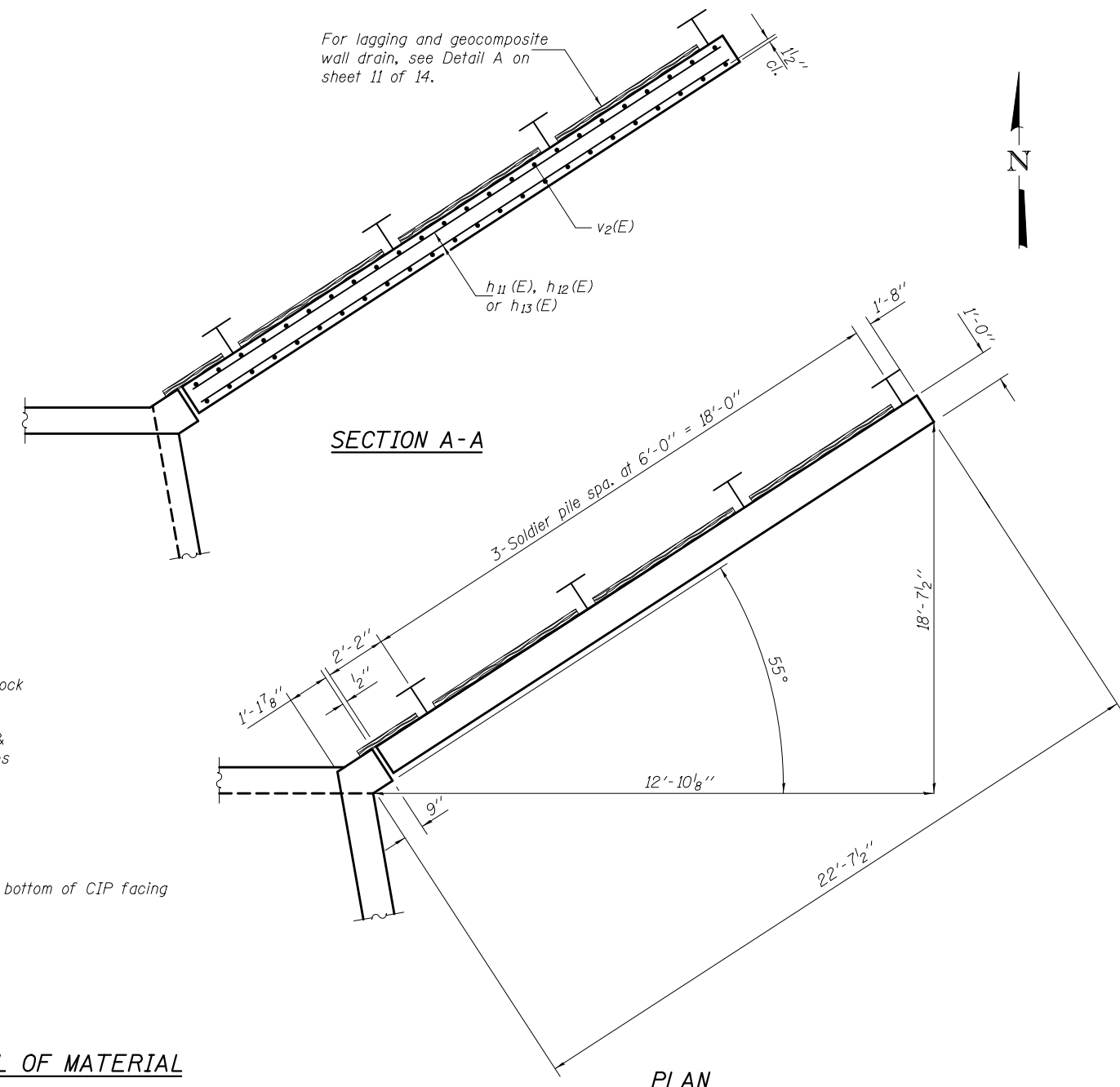
SHEET NO. 8 OF 14 SHEETS

| | | | | |
|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 66 |
| CONTRACT NO. 74616 | | | | |

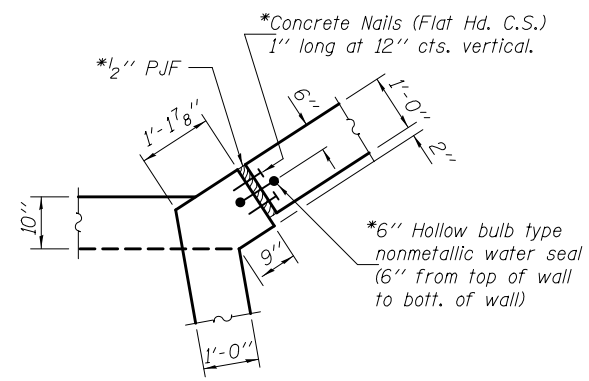
ILLINOIS FED. AID PROJECT



ELEVATION - NORTH EAST WINGWALL

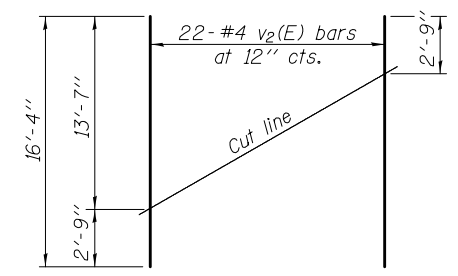


PLAN



CORNER DETAIL

*Cost included with Concrete Box Culverts.



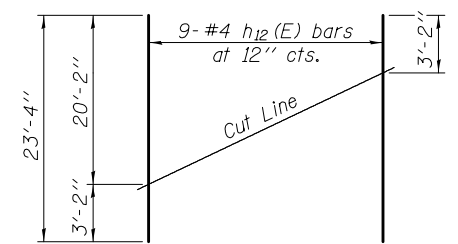
FIELD CUTTING DIAGRAM

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

**Bottom of pile to bottom of CIP facing

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|--|-----|---------|--------|-------|
| h ₁₁ (E) | 2 | #4 | 23'-6" | — |
| h ₁₂ (E) | 9 | #4 | 23'-4" | — |
| h ₁₃ (E) | 8 | #4 | 21'-7" | — |
| v ₂ (E) | 22 | #4 | 16'-4" | — |
| Geocomposite Wall Drain | | Sq. Yd. | 9 | |
| Untreated Timber Lagging | | Sq. Ft. | 172 | |
| Stud Shear Connectors | | Each | 26 | |
| Furnishing Soldier Piles (W Section) | | Foot | 88 | |
| Concrete Structures | | Cu. Yd. | 6.9 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 530 | |
| Drilling & Setting Soldier Piles (In Soil) | | Cu. Ft. | 235 | |
| Drilling & Setting Soldier Piles (In Rock) | | Cu. Ft. | 197 | |
| Structure Excavation | | Cu. Yd. | 5.4 | |



FIELD CUTTING DIAGRAM

Order h12(E) bars full length. Cut as shown & use remainder of bars in opposite face.

| | | |
|-------------------------|---|-----------------------|
| DESIGNED - Paul Gurkiys | EXAMINED - <i>Joanne F. Jolly</i> | DATE - MARCH 24, 2015 |
| CHECKED - Ally D. Yancy | PASSED - <i>Carl P. King</i> | REVISOR |
| DRAWN - h.t. duong | ACTING ENGINEER OF BRIDGES AND STRUCTURES | REVISOR |
| CHECKED - PG/ADY | | |

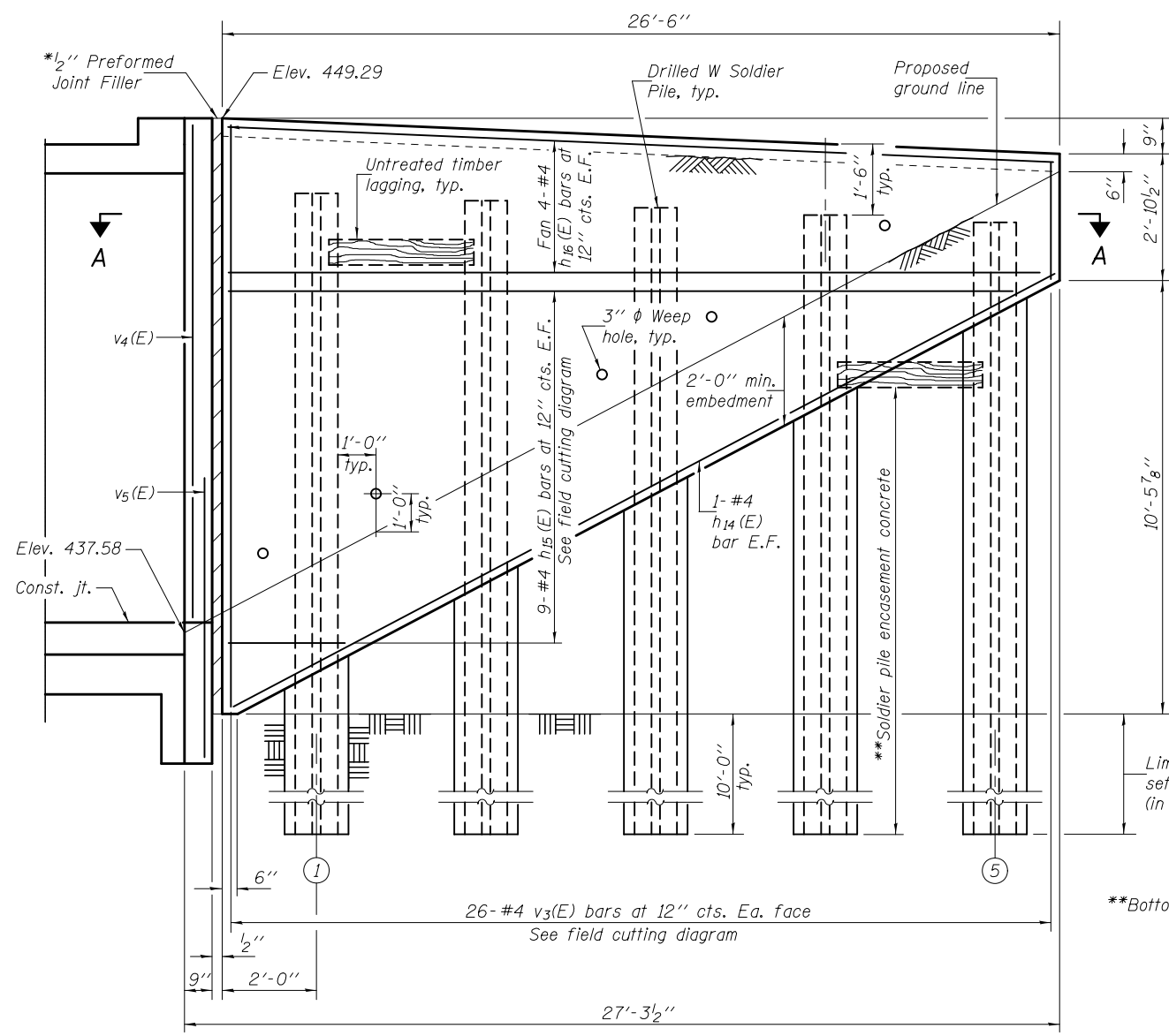
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS
STRUCTURE NO. 080-2006**

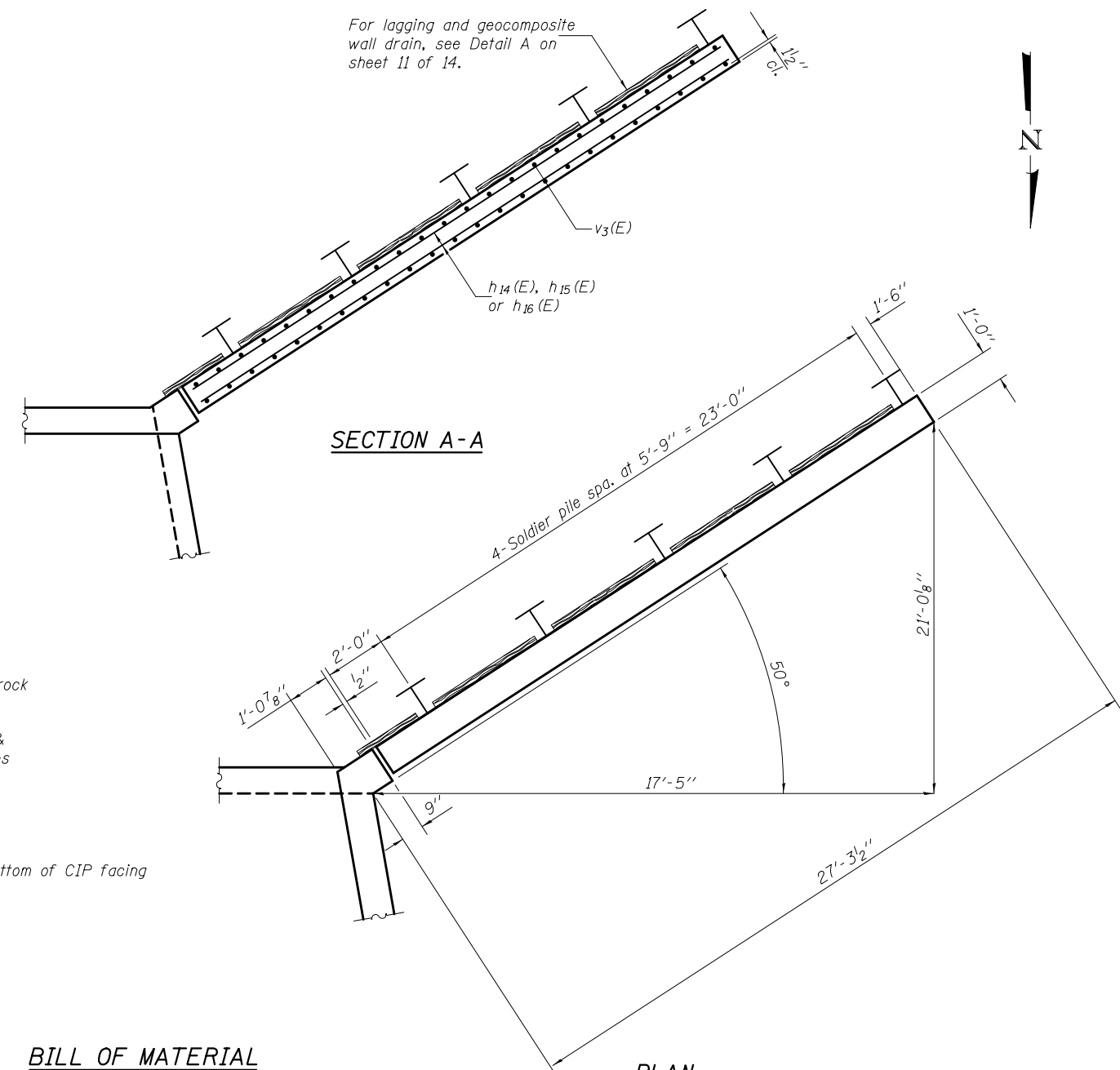
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|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 67 |
| CONTRACT NO. 74616 | | | | |

SHEET NO. 9 OF 14 SHEETS

ILLINOIS FED. AID PROJECT



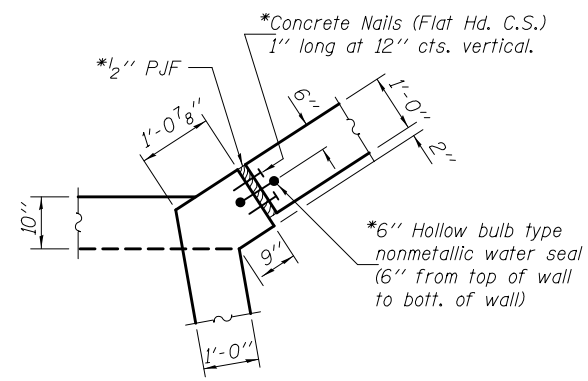
ELEVATION - SOUTH WEST WINGWALL



For lagging and geocomposite wall drain, see Detail A on sheet 11 of 14.

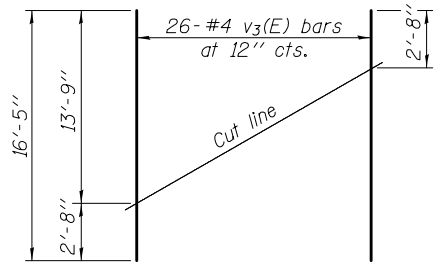
SECTION A-A

PLAN



CORNER DETAIL

*Cost included with Concrete Box Culverts.

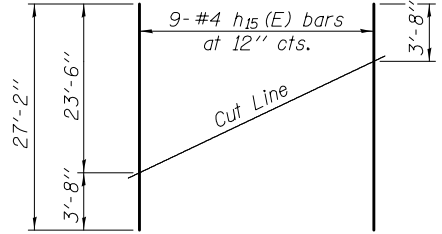


FIELD CUTTING DIAGRAM

Order v3(E) bars full length. Cut as shown & use remainder of bars in opposite face.

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|--|-----|---------|---------|-------|
| h ₁₄ (E) | 2 | #4 | 27'-11" | — |
| h ₁₅ (E) | 9 | #4 | 27'-2" | — |
| h ₁₆ (E) | 8 | #4 | 26'-3" | — |
| v ₃ (E) | 26 | #4 | 16'-5" | — |
| Geocomposite Wall Drain | | Sq. Yd. | 11 | |
| Untreated Timber Lagging | | Sq. Ft. | 206 | |
| Stud Shear Connectors | | Each | 34 | |
| Furnishing Soldier Piles (W Section) | | Foot | 111 | |
| Concrete Structures | | Cu. Yd. | 8.4 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 630 | |
| Drilling & Setting Soldier Piles (In Soil) | | Cu. Ft. | 300 | |
| Drilling & Setting Soldier Piles (In Rock) | | Cu. Ft. | 246 | |
| Structure Excavation | | Cu. Yd. | 6.9 | |



FIELD CUTTING DIAGRAM

Order h₁₅(E) bars full length. Cut as shown & use remainder of bars in opposite face.

DESIGNED - Paul Gurkiys
 CHECKED - Ally D. Yancy
 DRAWN - h.t. duong
 CHECKED - PG/ADY

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015
 REVISED

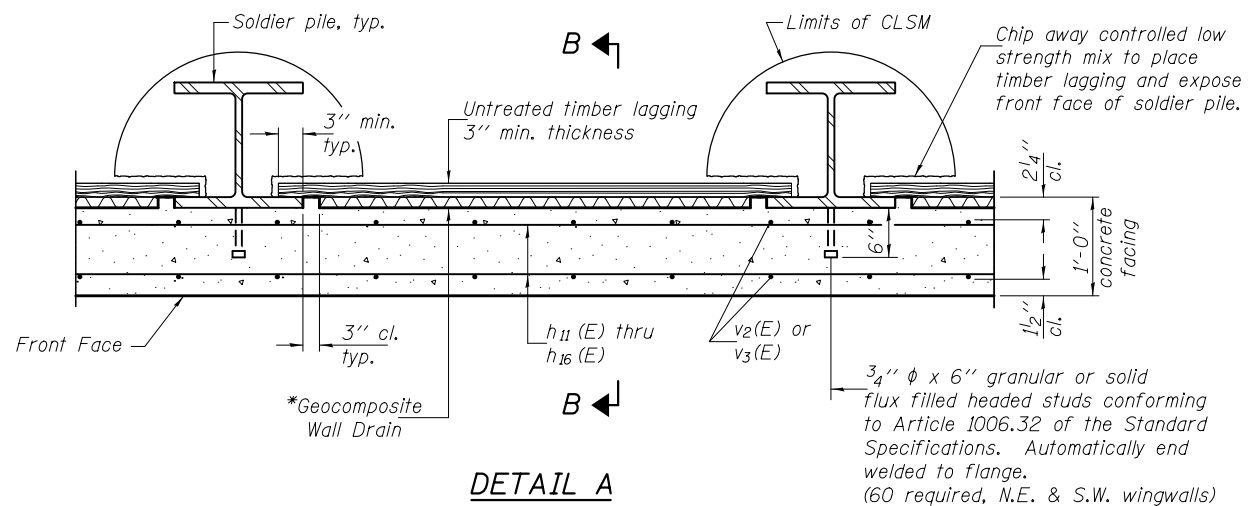
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS
 STRUCTURE NO. 080-2006**

SHEET NO. 10 OF 14 SHEETS

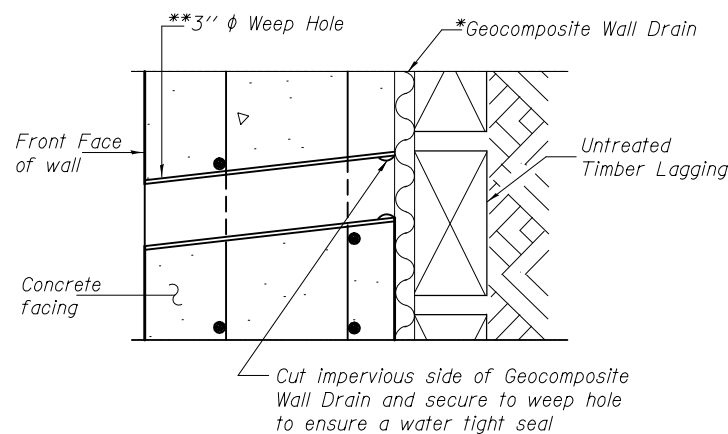
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 68 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



*Geocomposite Wall Drain shall not have a thickness greater than 3/4\".

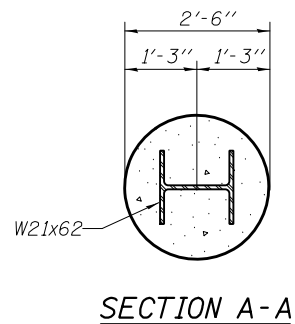
3/4" ϕ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specifications. Automatically end welded to flange. (60 required, N.E. & S.W. wingwalls)



WEEP HOLE DRAIN DETAIL

**Cost for the weep hole drain and the connection to the geocomposite wall drain are included with Concrete Structures.

Note: The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



SECTION A-A

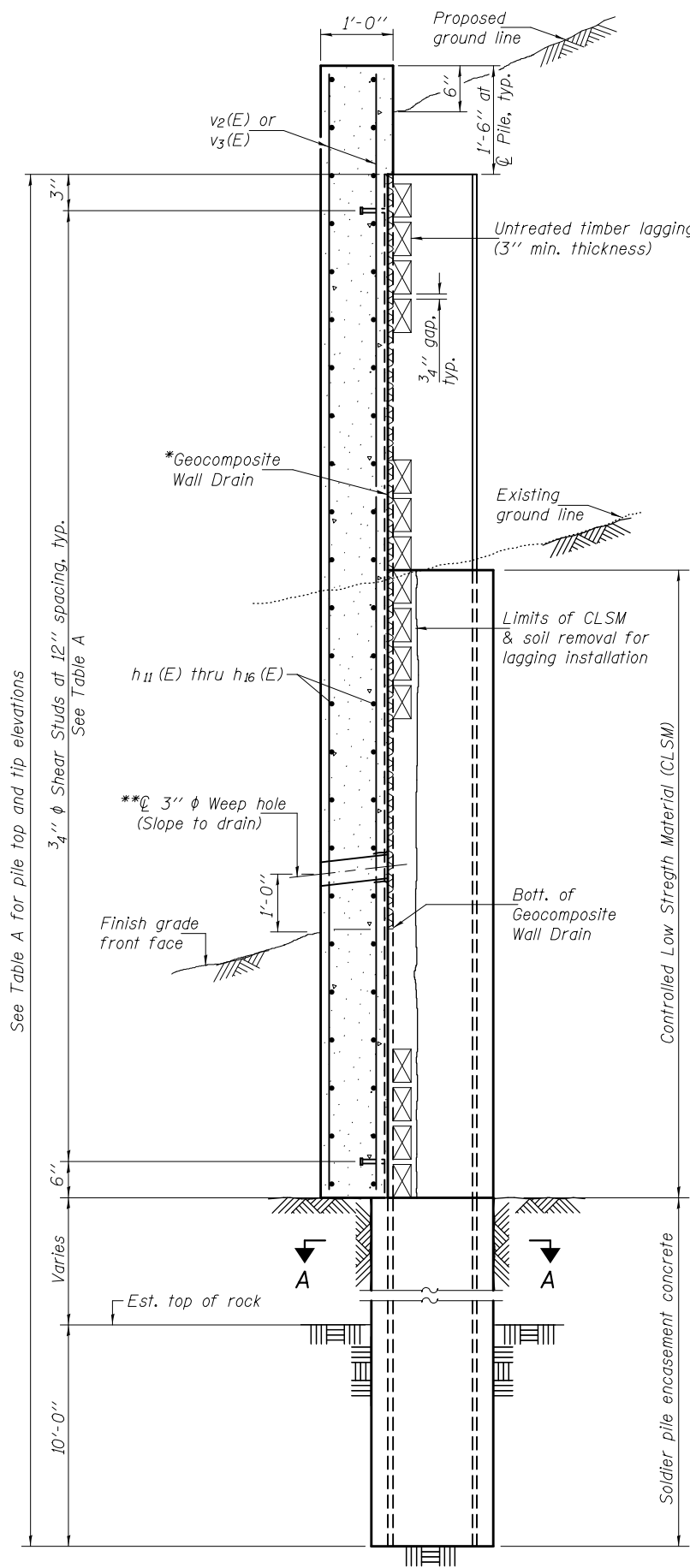
NORTH EAST WINGWALL

| Pile No. | Pile Size | Top Elev. | Tip Elev. | Length (ft.) | No. Studs/Pile |
|----------|-----------|-----------|-----------|--------------|----------------|
| 1 | W21x62 | 447.79 | 425.43 | 22'-4 3/8" | 11 |
| 2 | W21x62 | 447.54 | 425.43 | 22'-1 3/8" | 8 |
| 3 | W21x62 | 447.29 | 425.43 | 21'-10 3/8" | 5 |
| 4 | W21x62 | 447.03 | 425.43 | 21'-7 1/4" | 2 |

SOUTH WEST WINGWALL

| Pile No. | Pile Size | Top Elev. | Tip Elev. | Length (ft.) | No. Studs/Pile |
|----------|-----------|-----------|-----------|--------------|----------------|
| 1 | W21x62 | 447.73 | 425.18 | 22'-6 5/8" | 12 |
| 2 | W21x62 | 447.57 | 425.18 | 22'-4 3/4" | 9 |
| 3 | W21x62 | 447.41 | 425.18 | 22'-2 3/4" | 7 |
| 4 | W21x62 | 447.25 | 425.18 | 22'-0 7/8" | 4 |
| 5 | W21x62 | 447.08 | 425.18 | 21'-10 7/8" | 2 |

TABLE A



SECTION B-B

DESIGNED - Paul Gurkiys
 CHECKED - Ally D. Yancy
 DRAWN - h.t. duong
 CHECKED - PG/ADY

EXAMINED
 PASSED
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015
 REVISED
 REVISED

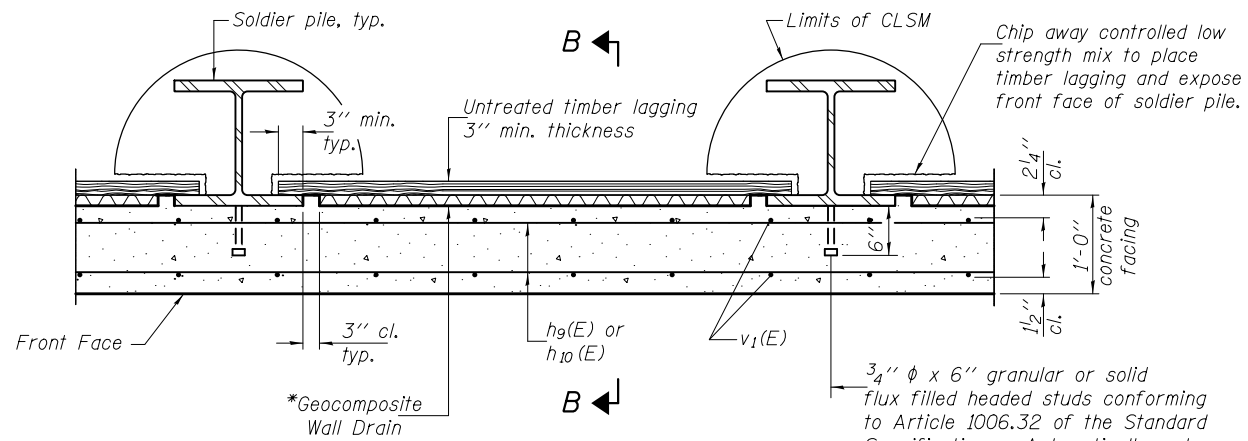
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
 STRUCTURE NO. 080-2006

SHEET NO. 11 OF 14 SHEETS

| | | | | |
|--------------------|---------|----------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 69 |
| CONTRACT NO. 74616 | | | | |

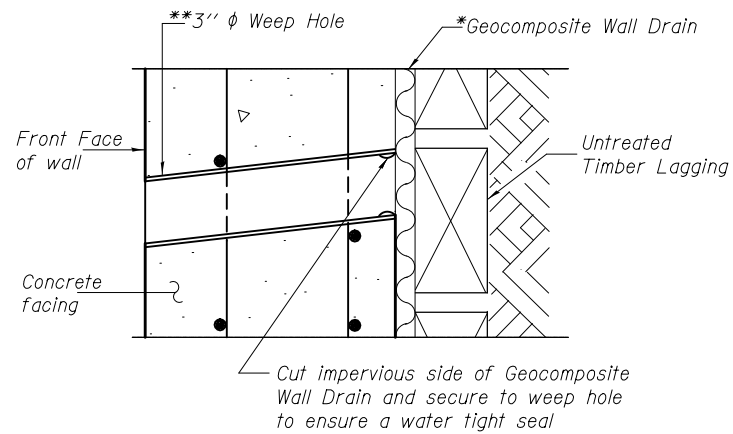
ILLINOIS FED. AID PROJECT



DETAIL A

*Geocomposite Wall Drain shall not have a thickness greater than 3/4".

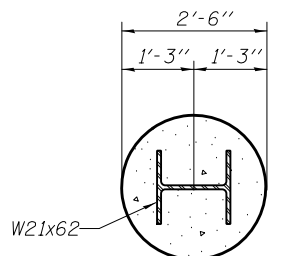
3/4" φ x 6" granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specifications. Automatically end welded to flange. (56 required, N.W. & S.E. wingwalls)



WEEP HOLE DRAIN DETAIL

**Cost for the weep hole drain and the connection to the geocomposite wall drain are included with Concrete Structures.

Note: The Contractor is responsible for the design and performance of the lagging using no less than a 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.



SECTION A-A

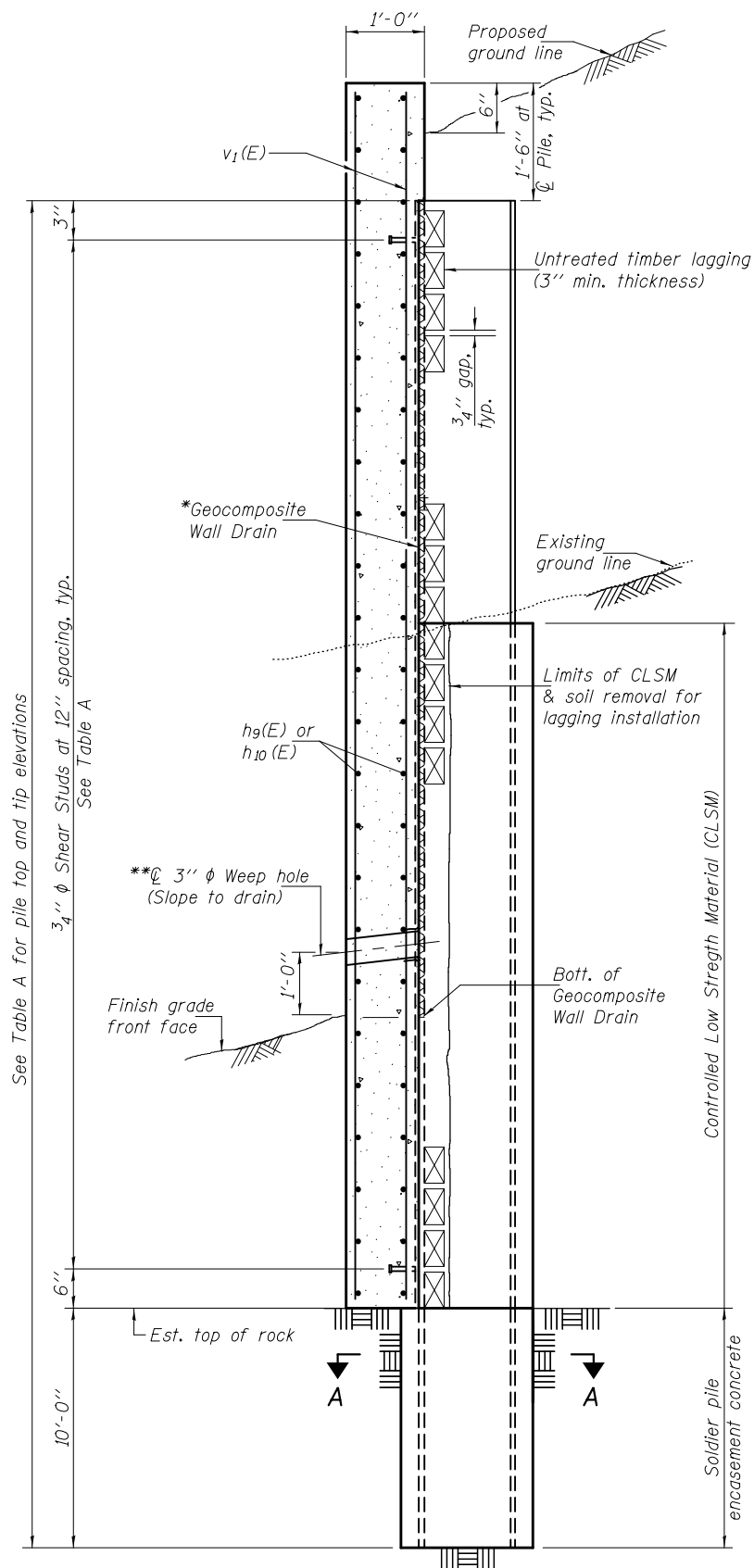
NORTH WEST WINGWALL

| Pile No. | Pile Size | Top Elev. | Tip Elev. | Length (ft.) | No. Studs/Pile |
|----------|-----------|-----------|-----------|--------------|----------------|
| 1 | W21x62 | 446.95 | 425.18 | 21'-9 1/4" | 12 |
| 2 | W21x62 | 444.80 | 425.18 | 19'-7 1/2" | 9 |
| 3 | W21x62 | 442.64 | 425.18 | 17'-5 1/2" | 7 |

SOUTH EAST WINGWALL

| Pile No. | Pile Size | Top Elev. | Tip Elev. | Length (ft.) | No. Studs/Pile |
|----------|-----------|-----------|-----------|--------------|----------------|
| 1 | W21x62 | 447.04 | 425.43 | 21'-7 3/8" | 12 |
| 2 | W21x62 | 444.90 | 425.43 | 19'-5 3/4" | 9 |
| 3 | W21x62 | 442.72 | 425.43 | 17'-3 1/2" | 7 |

TABLE A



SECTION B-B

DESIGNED - Paul Gurkiys
 CHECKED - Ally D. Yancy
 DRAWN - h.t. duong
 CHECKED - PG/ADY

EXAMINED
 PASSED
Joanne F. [Signature]
 ENGINEER OF BRIDGE DESIGN
Carl [Signature]
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015
 REVISED
 REVISED

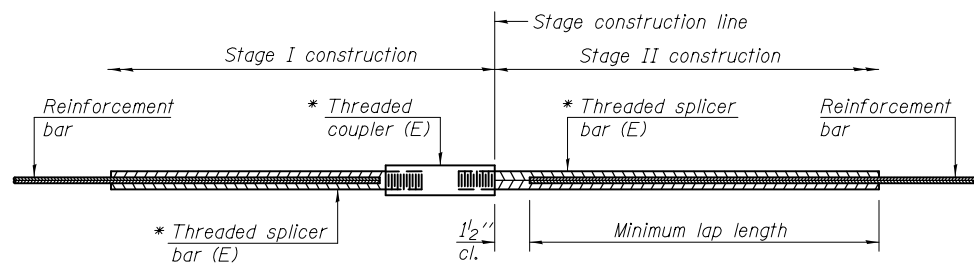
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
 STRUCTURE NO. 080-2006

SHEET NO. 12 OF 14 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 70 |
| CONTRACT NO. 74616 | | | | |

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

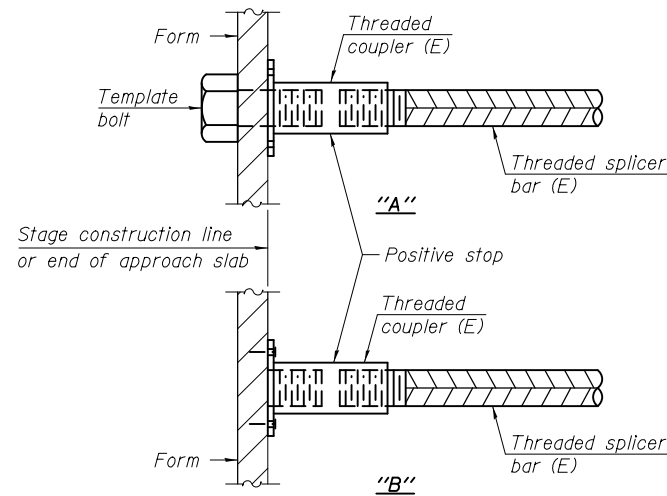
| Minimum Lap Lengths | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 | Table 6 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-7" | 2'-11" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 3'-3" | 3'-8" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-10" | 4'-5" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 5'-2" | 5'-10" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 6'-9" | 7'-8" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 8'-7" | 9'-8" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

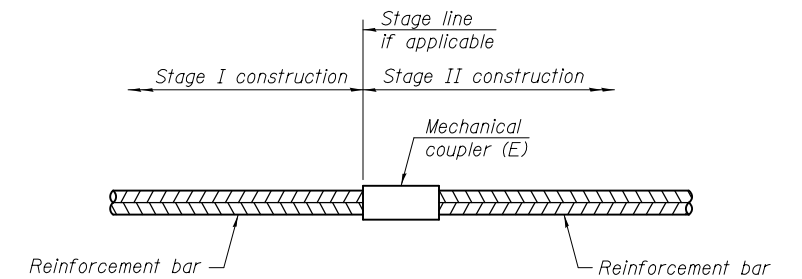
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|-------------|----------|-------------------------|------------------------------|
| Top slab | #4 | 21 | 3 |
| Top slab | #6 | 36 | 3 |
| Bottom slab | #5 | 52 | 3 |
| Walls | #6 | 36 | 3 |



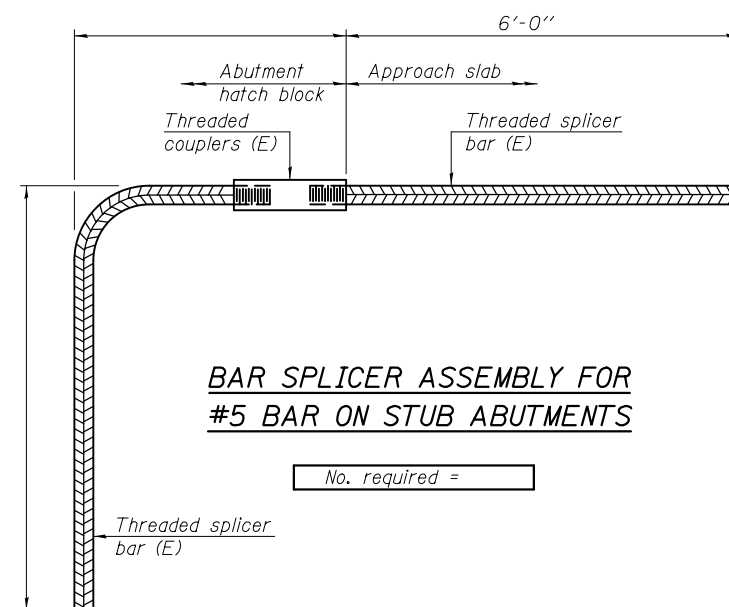
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

8-31-12

DESIGNED - Paul Gurkiys
 CHECKED - Ally D. Yancy
 DRAWN - h.t. duong
 CHECKED - PG/ADY

EXAMINED
 PASSED
Joanne F. [Signature]
 ENGINEER OF BRIDGE DESIGN
Carl [Signature]
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - MARCH 24, 2015
 REVISED
 REVISED

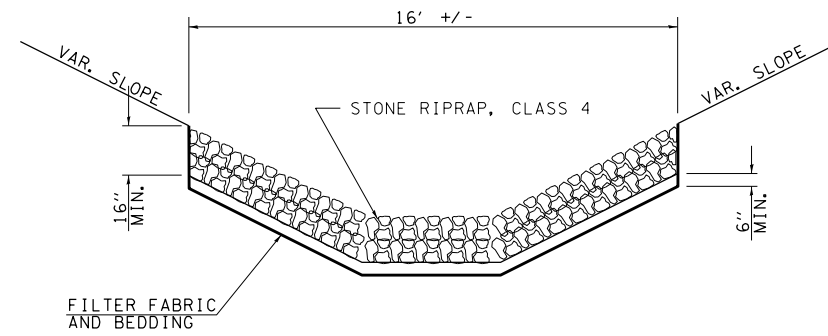
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 080-2006

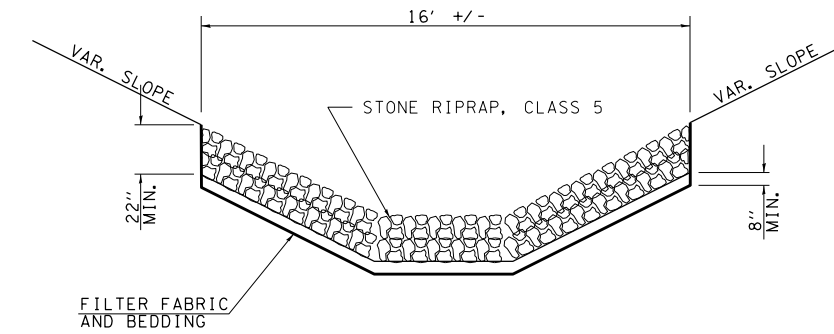
SHEET NO. 13 OF 14 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|--------------|-----------|
| 116 | 125I | RICHLAND | 198 | 71 |
| CONTRACT NO. 74616 | | | | |

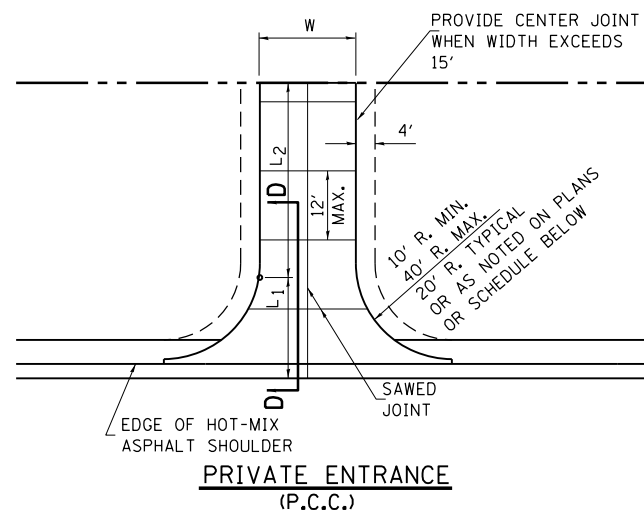
ILLINOIS FED. AID PROJECT



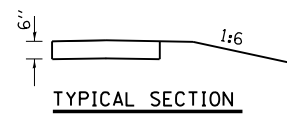
DETAIL OF RIPRAP, CLASS 4



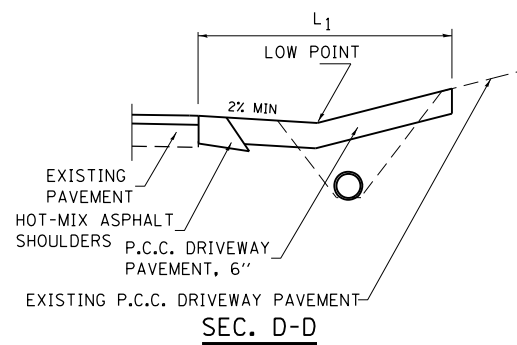
DETAIL OF RIPRAP, CLASS 5



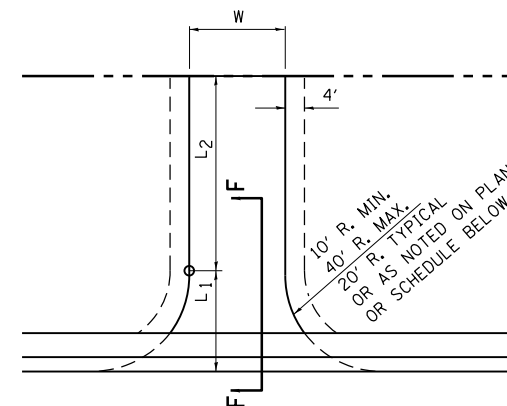
PRIVATE ENTRANCE (P.C.C.)



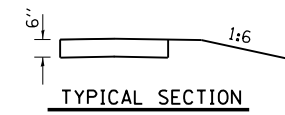
TYPICAL SECTION



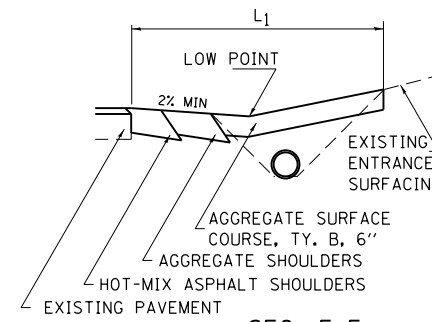
SEC. D-D



PRIVATE ENTRANCE & FIELD ENTRANCE (AGGREGATE)



TYPICAL SECTION



SEC. F-F

NOTES

L₁ = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.
 L₂ = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE
 MATERIAL USED TO CONSTRUCT L₂ LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH
 PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
 CE=COMMERCIAL ENTRANCE

| | | | |
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

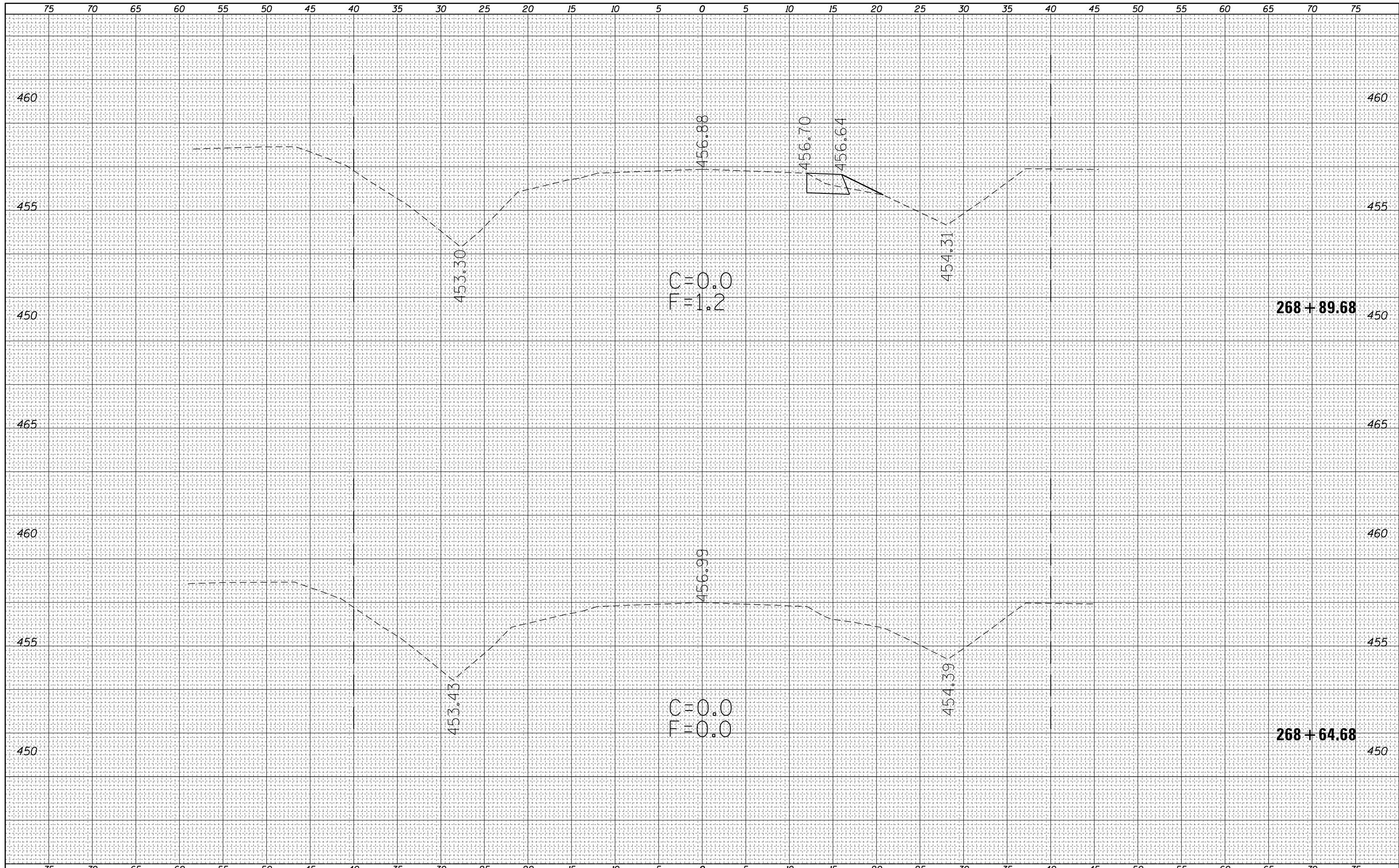
RIPRAP DETAILS

SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 73 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| TEMPLATE | |
| AREAS | |
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| FINAL SURVEY | |
| NOTE BOOK | |
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| SURVEYED | |
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| CHECKED | |
| ORIGINAL SURVEY | |
| NOTE BOOK | |
| NO. | |



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USER NAME = teasleyck
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 CHECKED -
 DATE -

DESIGNED -
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 DATE -

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

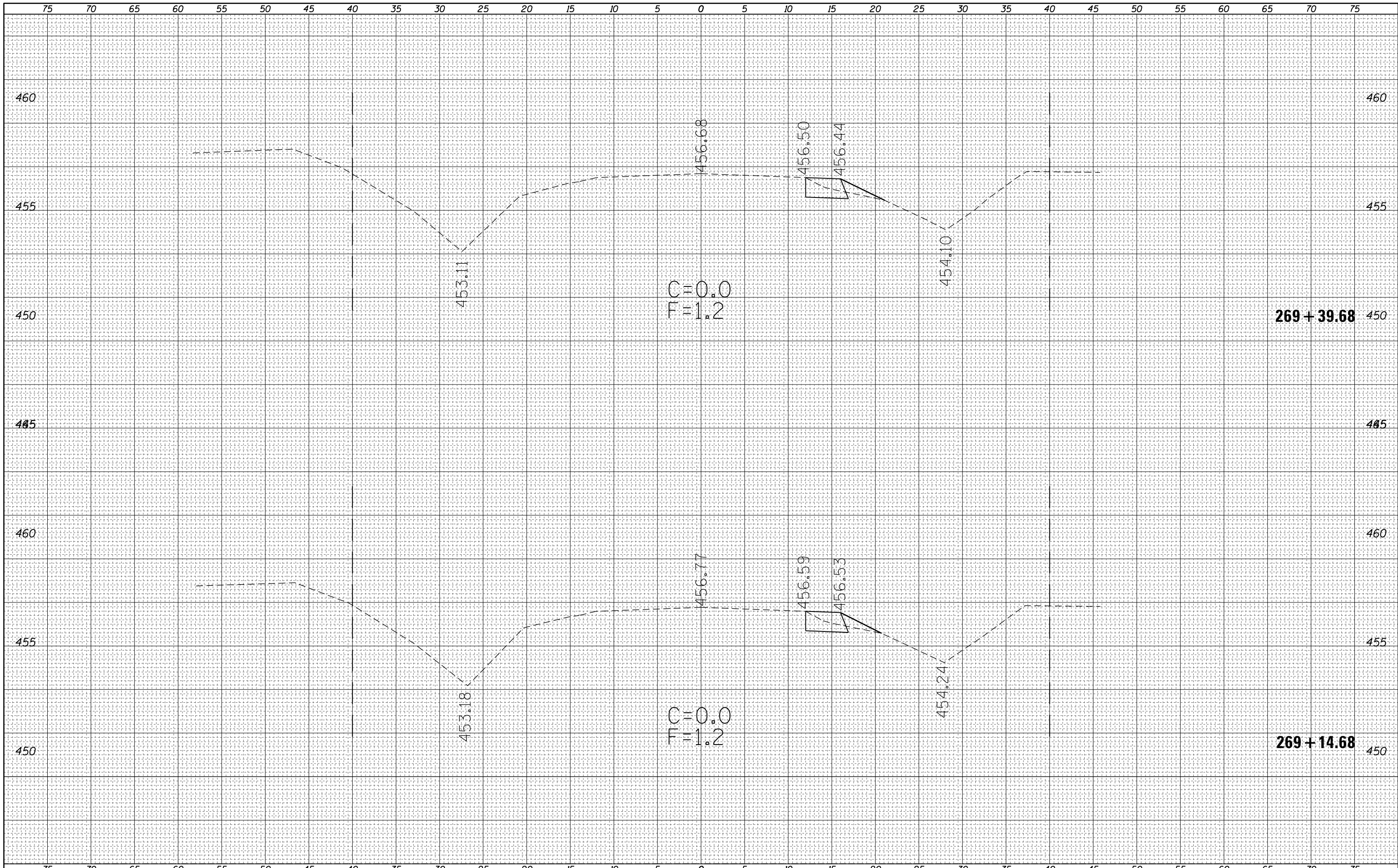
CROSS SECTIONS
 S.N. 080-8644 ROADWAY AND DITCH

SCALE: 5 SHEET 1 OF 19 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|---------------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 74 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

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| DATE | |
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DESIGNED -
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REVISED -
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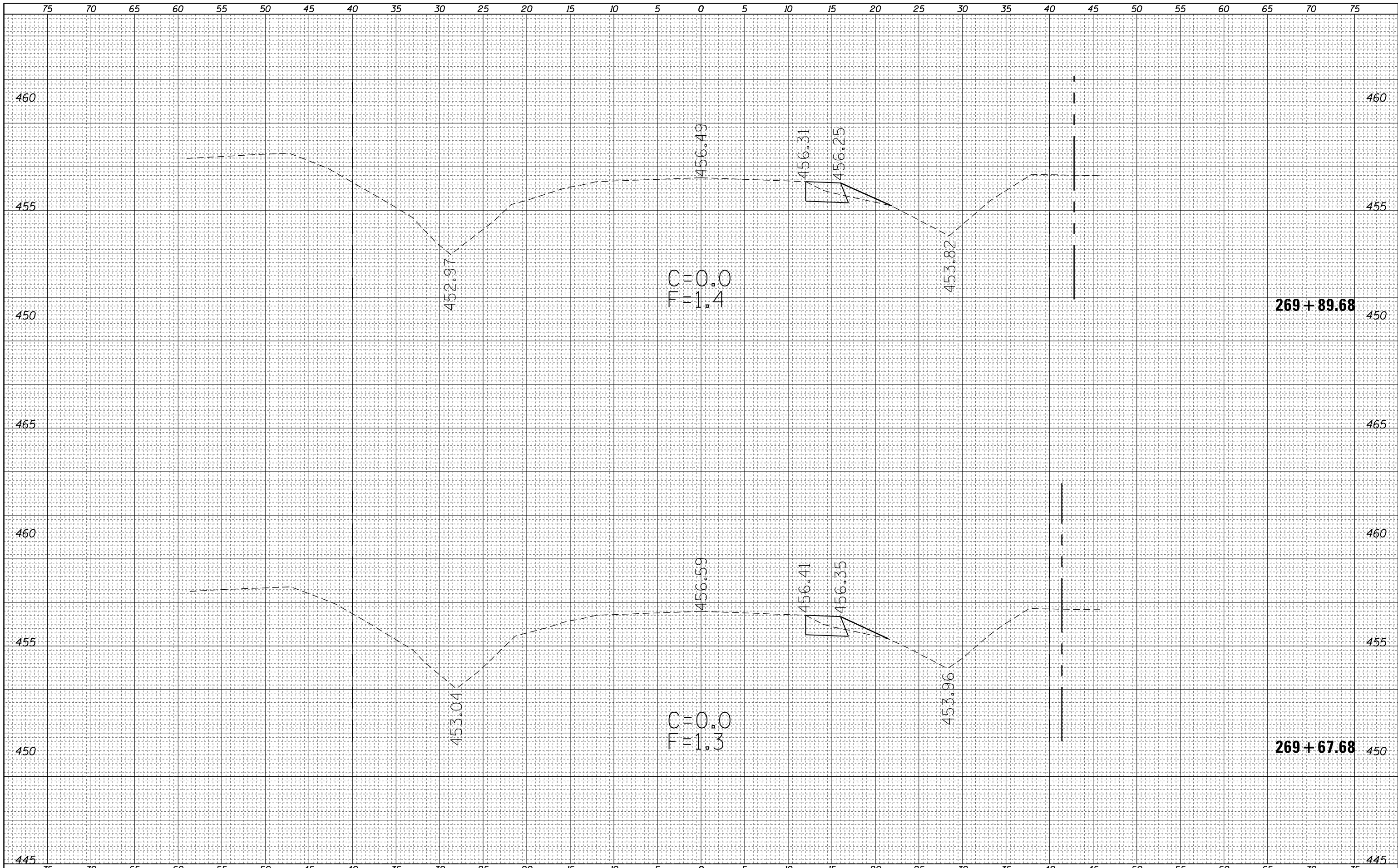
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
S.N. 080-8644 ROADWAY AND DITCH
 SCALE: 5 SHEET 2 OF 19 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|---------------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 75 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

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| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |

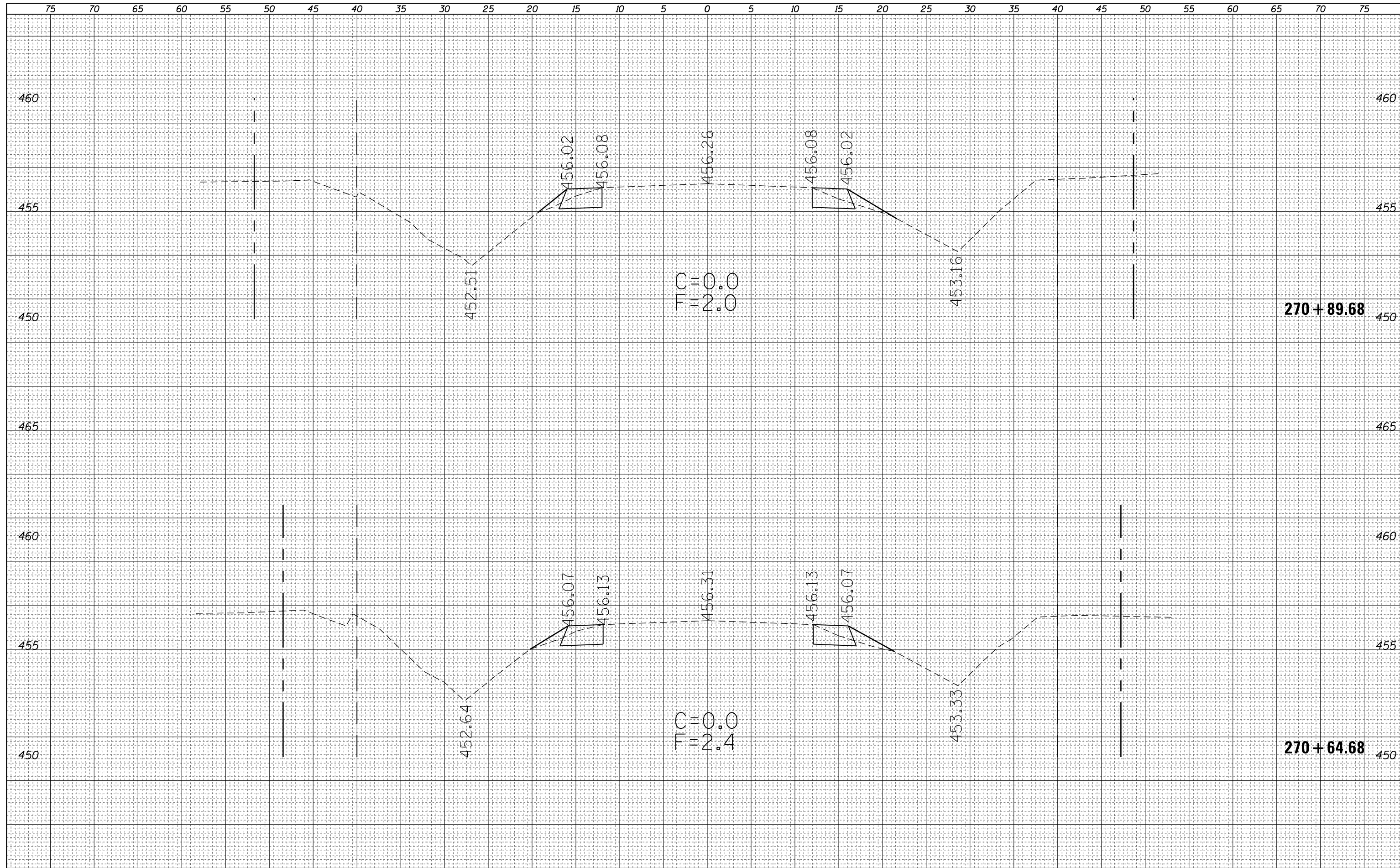
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| AREAS CHECKED | |
| NO. | |



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| PLOT DATE = 12/16/2014 | DATE - | REVISED - | SCALE: 5 | | SHEET 3 | OF 19 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | | |

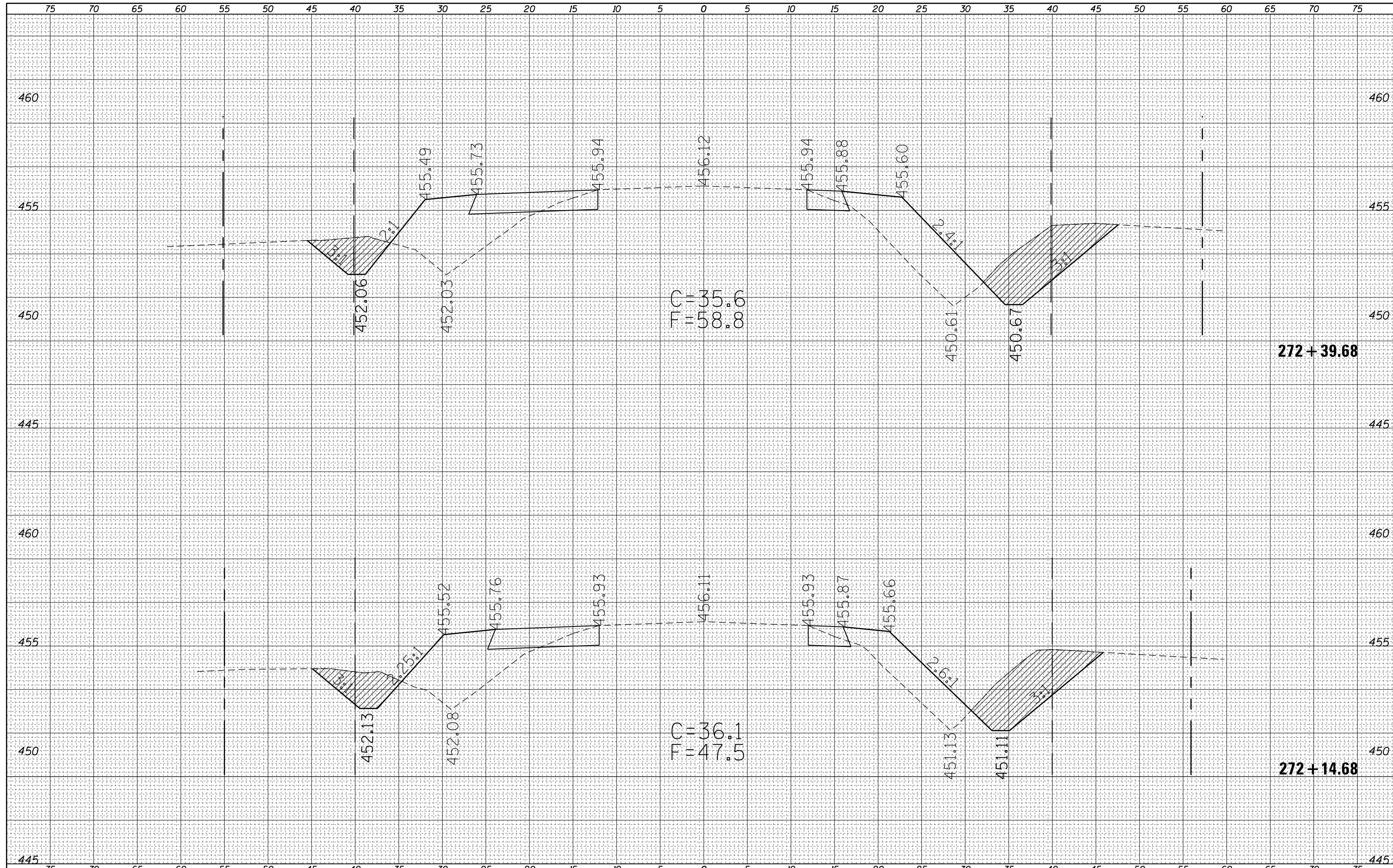
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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | |
| AREAS CHECKED | TEMPLATE | |
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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
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| |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



FILE NAME =
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USER NAME = teasleyck
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 12/16/2014

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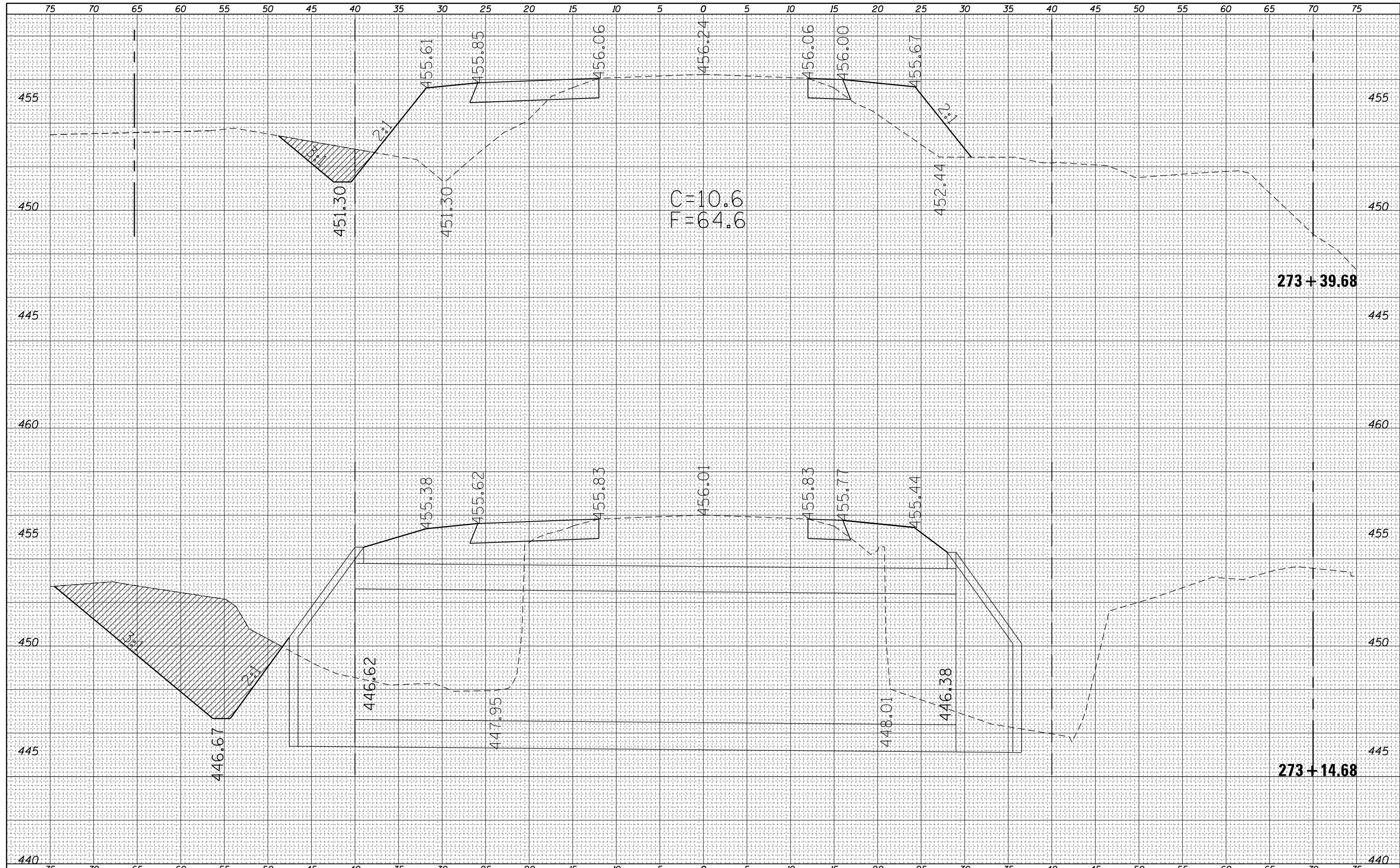
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
S.N. 080-8644 ROADWAY AND DITCH
 SCALE: 5 SHEET 8 OF 19 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 81 |
| | | | CONTRACT NO. 74616 | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED | DATE |
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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | |
| AREAS CHECKED | TEMPLATE | |
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USER NAME = teasleyck
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 12/16/2014

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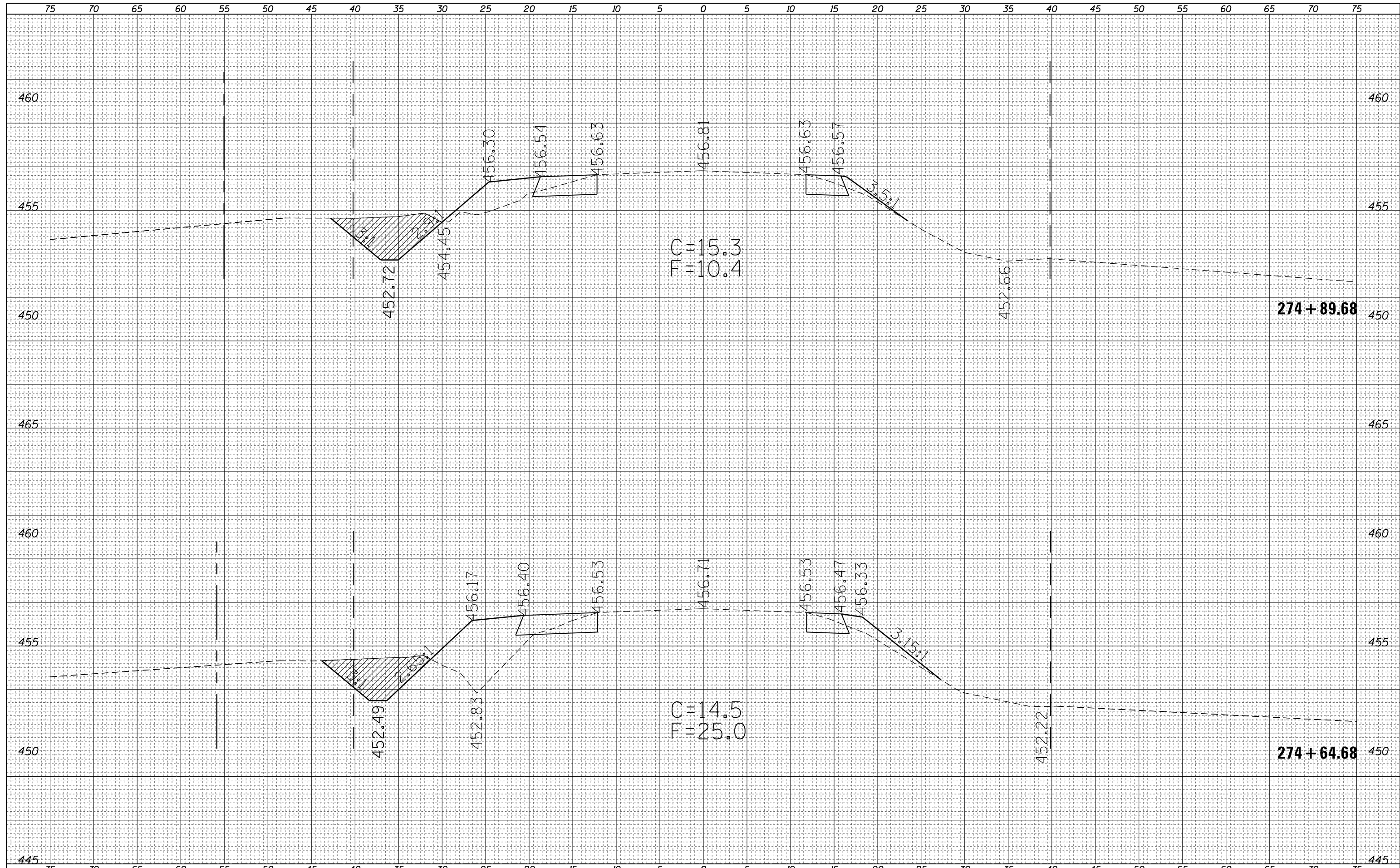
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 S.N. 080-8644 ROADWAY AND DITCH
 SCALE: 5 SHEET 10 OF 19 SHEETS STA. TO STA.

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|---------------------------|---------|----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 116 | 125I | RICHLAND | 198 | 83 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 74616 | |

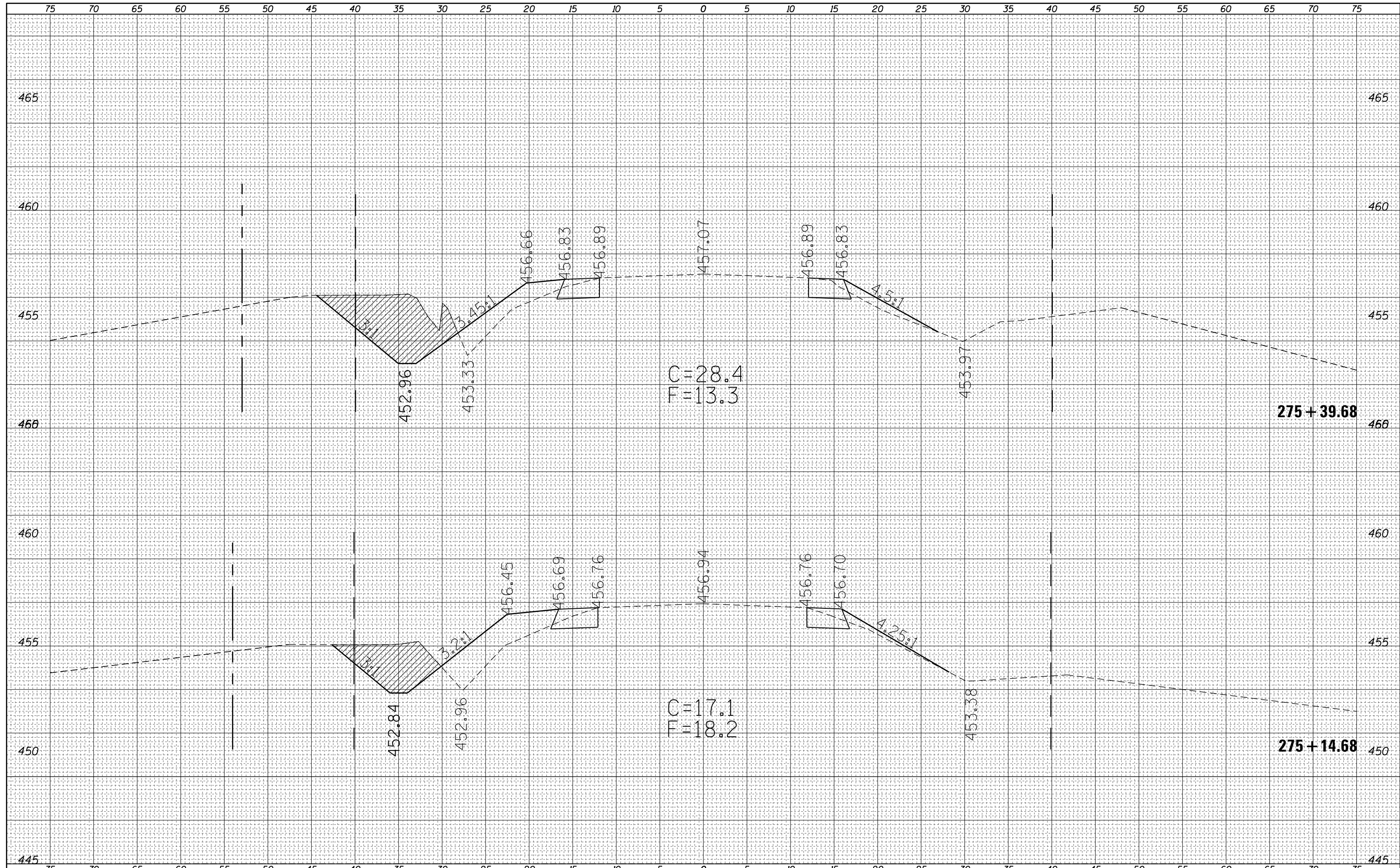
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| ORIGINAL SURVEY NO. | SURVEYED BY | DATE |
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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS S.N. 080-8644 ROADWAY AND DITCH | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pw\work\p\dot\teasleyck\d0339485\0774616-sh-t-xsc-8644B.dgn | DRAWN - | REVISED - | 116 | | | | | 125I | RICHLAND | 198 | 87 | |
| Default | PLOT SCALE = 10.0000' / in. | CHECKED - | REVISED - | | CONTRACT NO. 74616 | | | | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | SCALE: 5 | SHEET 14 | OF 19 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |

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| NOTE BOOK | |
| NO. | |

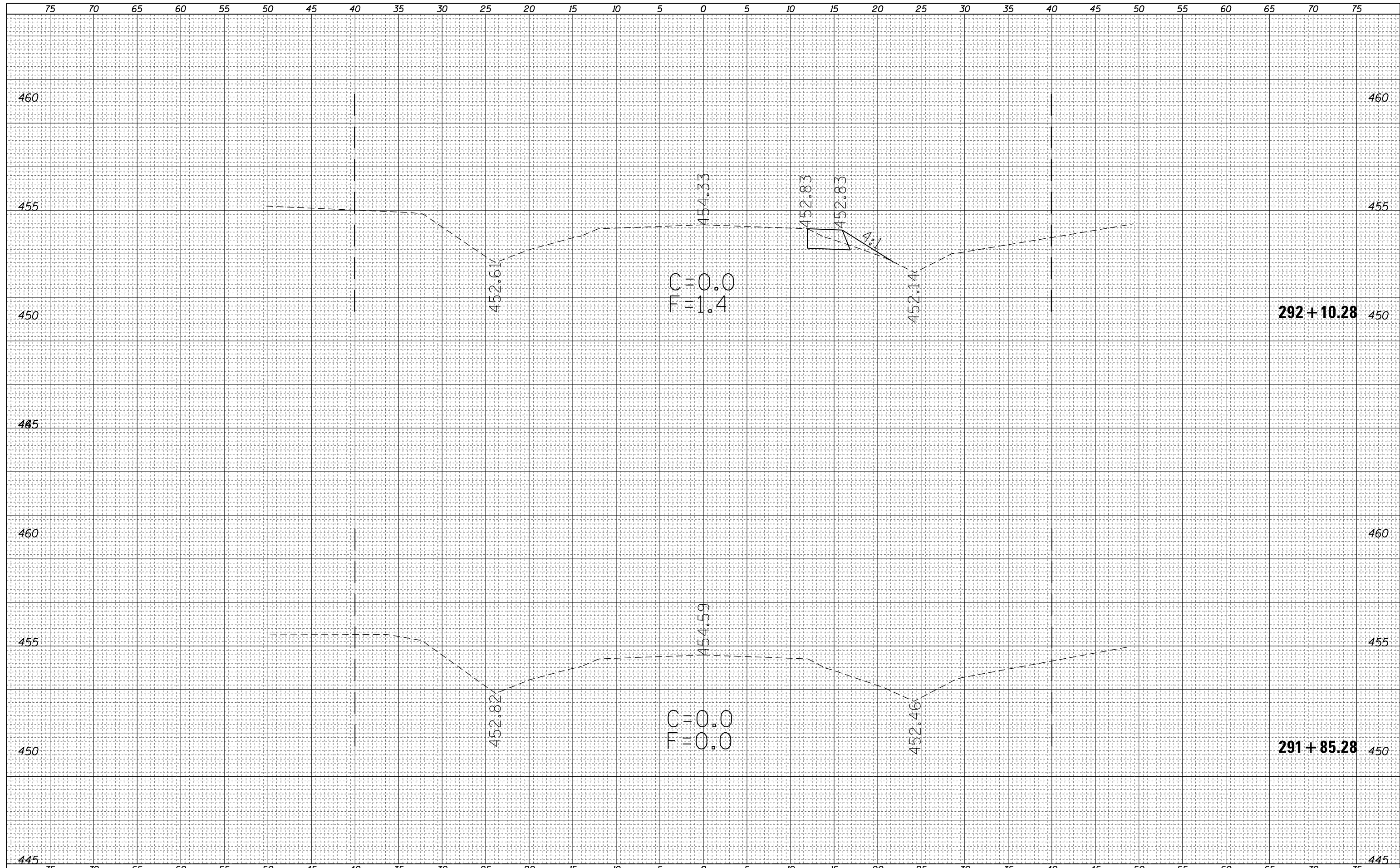
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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | <p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">CROSS SECTIONS S.N. 080-8644 ROADWAY AND DITCH</p> <p>SCALE: 5 SHEET 17 OF 19 SHEETS STA. TO STA.</p> | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pw_work\pwidot\teasleyck\d0339485\0774616-sh | t-xsc-8644B.dgn | DRAWN - | REVISED - | | 116 | 125I | RICHLAND | 198 | 90 |
| Default | PLOT SCALE = 10.0000' / in. | CHECKED - | REVISED - | | CONTRACT NO. 74616 | | | | |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | |

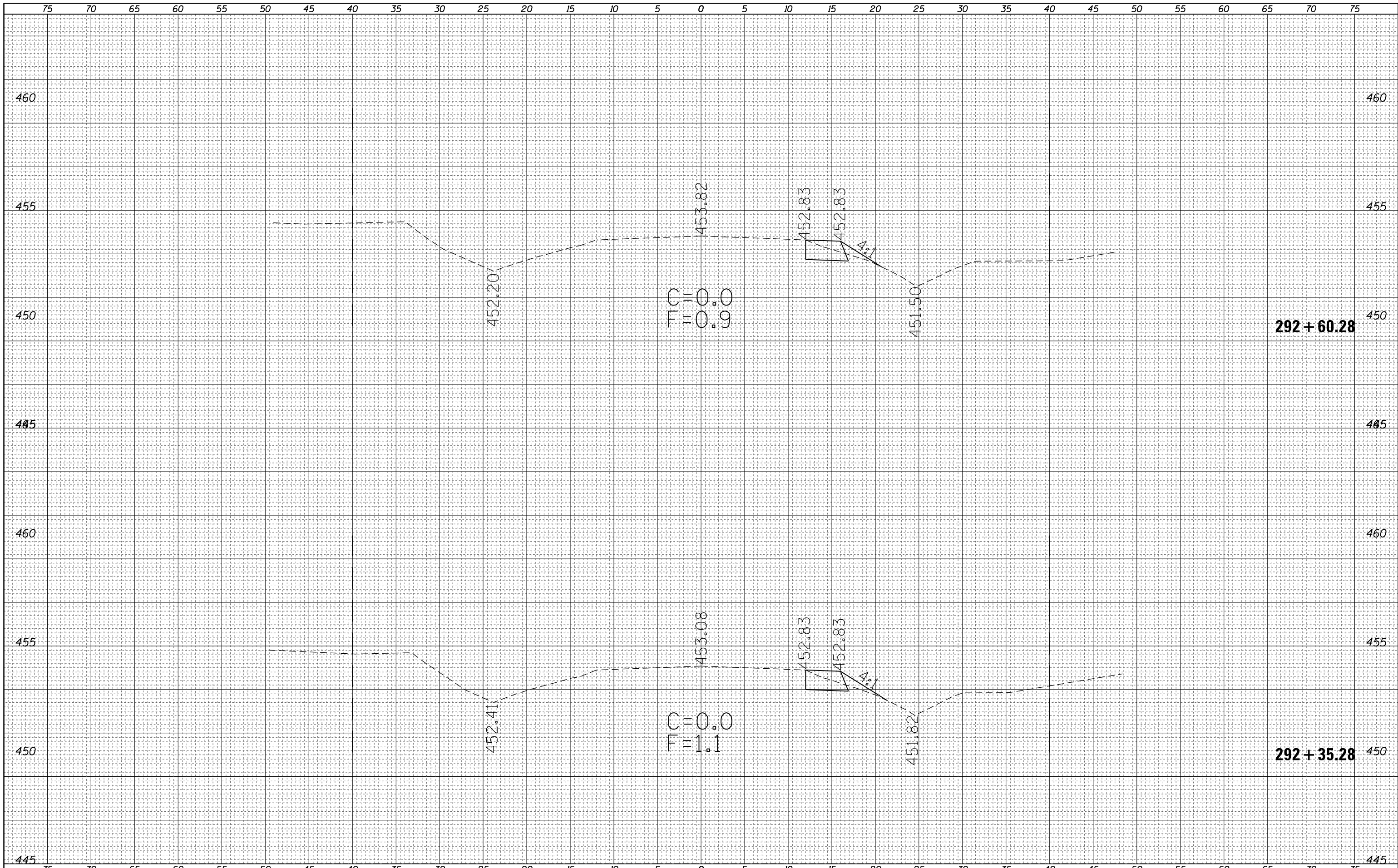
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| DATE | |
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| FINAL SURVEY NO. | |
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| AREAS CHECKED | |

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



FILE NAME =
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USER NAME = teasleyck
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 DATE -

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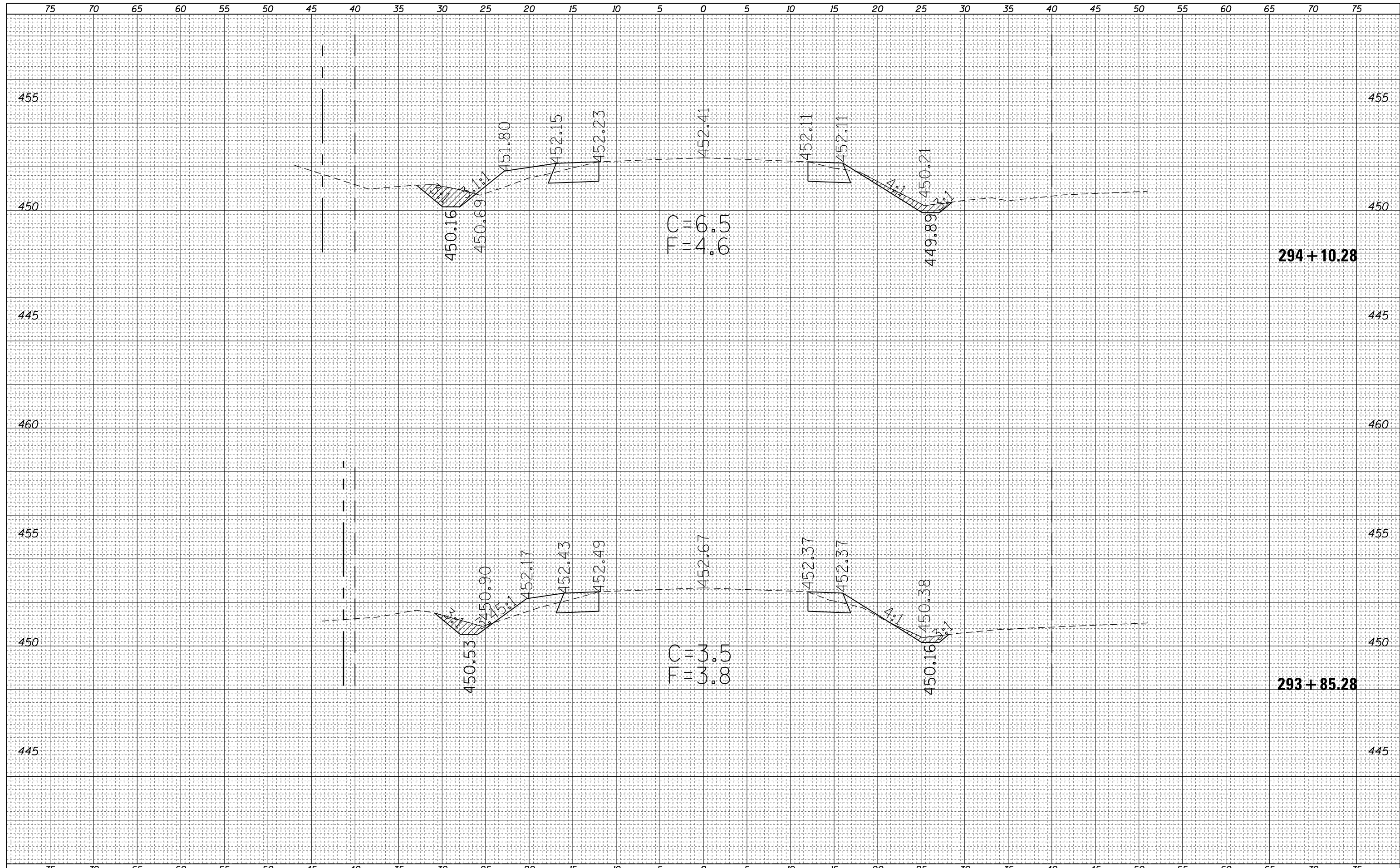
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
S.N. 080-8643 ROADWAY AND DITCH
 SCALE: 5 SHEET 2 OF 21 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|----------|---------------------------|-----------|
| 116 | 125I | RICHLAND | 198 | 94 |
| CONTRACT NO. 74616 | | | ILLINOIS FED. AID PROJECT | |

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

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



FILE NAME =
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USER NAME = teasleyck
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 12/16/2014

DESIGNED -
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 DATE -

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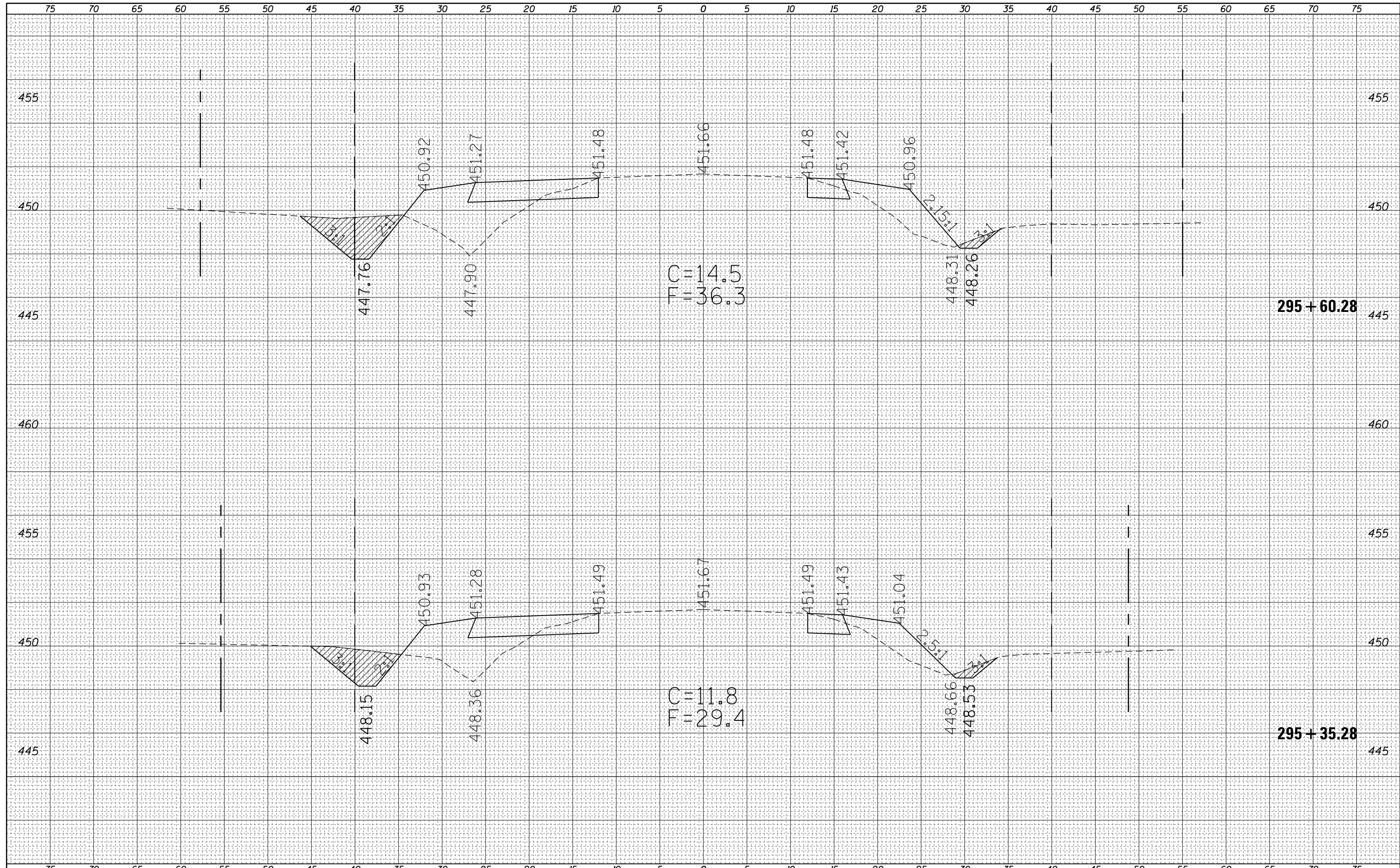
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
S.N. 080-8643 ROADWAY AND DITCH
 SCALE: 5 SHEET 5 OF 21 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|----------|--------------|-----------|
| 116 | 1251 | RICHLAND | 198 | 97 |
| CONTRACT NO. 74616 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED | DATE |
| NOTE BOOK | PLOTTED | |
| AREAS CHECKED | TEMPLATE | |
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| ORIGINAL SURVEY NO. | SURVEYED | DATE |
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C = 14.5
F = 36.3

C = 11.8
F = 29.4

295 + 60.28

295 + 35.28

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| FILE NAME = | USER NAME = teasleyck | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS S.N. 080-8643 ROADWAY AND DITCH | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default | Plot Scale = 10.0000' / in. | CHECKED - | REVISED - | | | | | 116 | 1251 | RICHLAND | 198 | 100 |
| | PLOT DATE = 12/16/2014 | DATE - | REVISED - | | SCALE: 5 | | | SHEET 8 OF 21 SHEETS STA. TO STA. | | | CONTRACT NO. 74616 | |
| | | | | | ILLINOIS FED. AID PROJECT | | | | | | | |