

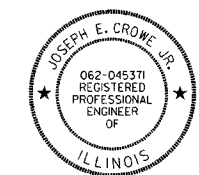
CONTRACT NO. 68430

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|--------|------------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 1 |
| FED. ROAD DIST. NO. | | IL 91 | FED. AID PROJECT | |

D-94-011-05



LOCATION OF SECTION INDICATED THUS: ———



EXPIRES: 11/30/2005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED July 30, 2006

[Signature]
DISTRICT ENGINEER

August 18, 2006
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 2006
[Signature]
DIRECTOR, DIVISION OF HIGHWAYS

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

FOR INDEX OF SHEETS, SEE SHEET NO. 2

LIST OF STANDARDS

| | |
|-----------|-----------|
| 000001-04 | 701301-02 |
| 001001 | 701306-01 |
| 280001-02 | 701311-02 |
| 542301 | |
| 666001 | 701326-02 |
| 667101 | 702001-06 |
| 701001-01 | 704001-02 |
| 701006-02 | 780001-01 |
| 701011-01 | BLR-21-6 |
| 701201-02 | |

DESIGN DESIGNATION

SECTION (108-B-1) BR
MAJOR COLLECTOR (RURAL)

ADT = 1350 (1999)

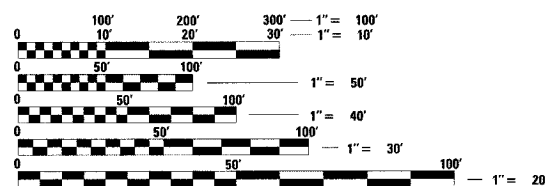
PV = 94%

SU = 4%

MU = 2%

QC/QA BITUMINOUS
SUPERPAVE PROJECT

NPDES PERMIT REQUIRED



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

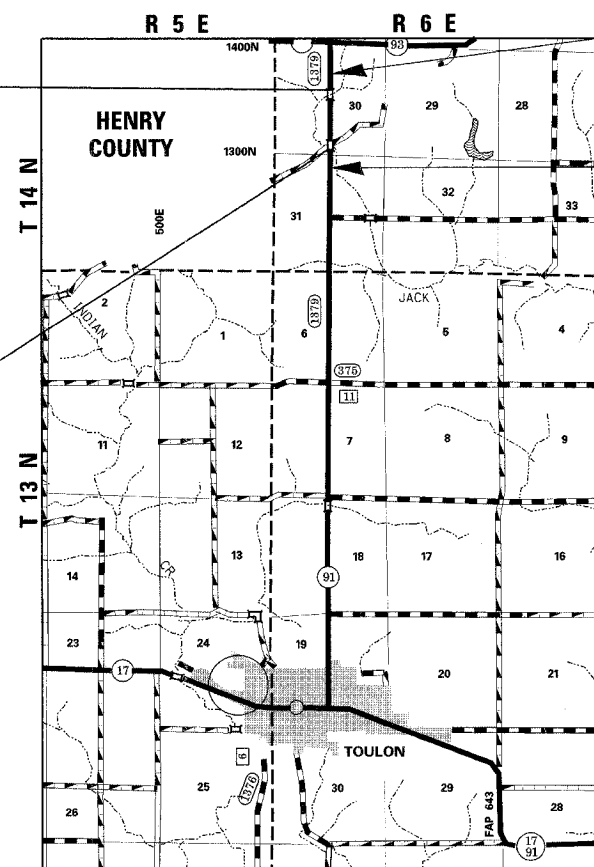
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAS ROUTE 1379 (IL 91)
SECTION (108-B-1) BR
PROJECT RS-1379(103)
BRIDGE REPLACEMENT
STARK COUNTY
C-94-011-05

REMOVE & REPLACE
THE EXISTING STRUCTURE
OVER JACK CREEK
WITH A DOUBLE 10' X 9'
PRECAST BOX CULVERT
EXIST S.N. 088-0015
PROP S.N. 088-2004
AT STA 51 + 30.00

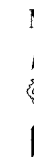
REMOVE AND REPLACE
THE EXISTING CULVERT
OVER JACK CREEK TRIBUTARY
WITH A 10' X 6'
PRECAST BOX CULVERT
AT STA 61 + 35.31



GRAPHIC SCALE

BEGIN PROJECT
SEC (108-B-1) BR
STA 46 + 00.00

END PROJECT
SEC (108-B-1) BR
STA 63 + 50.00



PROJECT ENGINEER: TOM LACY (309) 671-3453

DESIGN BY: NICHOLAS JACK (309) 671-3466

CONTRACT NO. 68430
CATALOG NO. 031898-06D

GROSS LENGTH OF PROJECT = 1,750.00 FT (0.331MILES)
NET LENGTH OF PROJECT = 1,750.00 FT (0.331MILES)

| | | | | |
|---------------------|--------------|---------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 2 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | ILLINOIS | IL 91 | | |

GENERAL NOTES

UTILITIES-LOCATIONS/INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES, AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN--ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES BY FIELD INSPECTION.

| | |
|--|---|
| ELECTRIC | TELEPHONE |
| CILCO (CENTRAL ILLINOIS LIGHT CO.) 8420 N. UNIVERSITY ST. PEORIA, IL 61614 (309) 693-4711 | VERIZON 112 W. ELM SYCAMORE, IL 60178 (815) 895-1515 |

| | |
|--|--|
| ELECTRIC | CABLE |
| ILLINOIS POWER COMPANY 370 S. MAIN DECATUR, IL 62525 (800) 892-7715 | MEDIACOM 609 S. FOURTH ST. CHILLICOTHE, IL 61523 (800) 874-2924 |

ORDERING LENGTH CONFIRMATION--DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

PROPERTY OWNER ACCESS REQUIREMENT

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

LABORATORY TESTING OF SUPERPAVE MIXES

SOME AGGREGATE COMPOSITIONS PRODUCE INCONSISTENT RESULTS WHEN BURNED IN THE IGNITION OVEN. THE ENGINEER WILL DETERMINE WHETHER THE IGNITION OVEN OR AC NUCLEAR GAUGE WILL BE REQUIRED AFTER THE AGGREGATE SOURCES HAVE BEEN IDENTIFIED.

PAVEMENT STATION NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACES OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 20 MM (3/4 INCH) WIDE, 125 MM (5 INCHES) HIGH AND 15 MM (5/8 INCH) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

- INTERVAL - 100 METERS (200 FEET)
- BOTTOM OF NUMBERS - 150 MM (6 INCHES) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING.
- LOCATION: 2, 3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER
- FORMAT - METRIC (ENGLISH) PAVEMENT STATIONS SHALL USE THIS FORMAT "XX+X00" ("XXX"), WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE BITUMINOUS SURFACE. NO INTERRUPTION FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

MIXTURE REQUIREMENTS

THE FOLLOWING BITUMINOUS MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT LOCATION FAS 1379 (IL 91).

20 YR. ESAL'S:

| MIXTURE USE | SURFACE COURSE | BIT CONC BINDER COURSE | BIT CONC BASE COURSE WID. | BITUMINOUS SHOULDER | | LEVELING BINDER |
|-------------------------------------|-------------------|------------------------|---------------------------|---------------------|--------------|-----------------|
| | | | | TOP LIFT | BOTTOM LIFT | |
| APPLICATION | | | | | | |
| AC/PG | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 |
| RAP%(MAX) | 15% | 25% | 25% | 30% | 30% | 25% |
| DESIGN AIR VOIDS | 4.2%@Ndes=50 | 4.2%@Ndes=50 | 4.2%@Ndes=50 | 3.0%@Ndes=30 | 4.0%@Ndes=30 | 4.2%@Ndes=50 |
| MIX COMPOSITION (GRADATION MIXTURE) | IL-9.5 OR IL-12.5 | IL-19.0 | IL-19.0 | IL 9.5L | IL 19.0L | IL 19.5 ONLY |
| FRICTION AGG | MIXTURE C | N/A | N/A | MIX C | N/A | N/A |

GENERAL NOTES CONTINUED

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR, EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- SIGNED PROPERTY OWNER AGREEMENT FORM
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA

PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

TREE REMOVAL-UTILITY RELOCATION

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL OR INCOMPLETE UTILITY RELOCATIONS.

TREE REMOVAL

THE DISTRICT TREE COMMITTEE SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

ENGINEERS FIELD OFFICE

ENGINEERS FIELD OFFICE REQUIREMENTS SHOULD BE AS NOTED IN STANDARD SPECIFICATIONS, HOWEVER THE FOLLOWING SENTENCE SHOULD BE ADDED TO THE END OF PARAGRAPH 670.2 (I) AND 670.04 (e): ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

PROJECT SPECIFIC NOTES

ACTUAL DEPTH OF BOX CULVERT UNDERCUT SHALL BE DETERMINED BY DISTRICT GEOTECHNICAL ENGINEER WITH A DYNAMIC CONE PENETROMETER

REMOVAL OF OIL AND CHIP SURFACES SHALL BE INCLUDED IN THE QUANTITY FOR EARTH EXCAVATION.

THE PROPOSED BOX CULVERTS ARE TO BE CONSTRUCTED ONE A TIME IN ORDER TO KEEP TR 47 OPEN TO TRAFFIC AT ALL TIMES.

THE FOLLOWING APPLICATION RATES HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

| | | |
|------------------------------------|-----|-----------|
| ROCK FILL | 2 | TONS/CY |
| BITUMINOUS CONCRETE SURFACE COURSE | 112 | LBS/SY/IN |
| LEVEL BINDER (MACHINE METHOD) | 112 | LBS/SY/IN |
| BITUMINOUS CONCRETE BINDER COURSE | 112 | LBS/SY/IN |
| NITROGEN FERTILIZER NUTRIENTS | 90 | LBS/ACRE |
| PHOSPHOROUS FERTILIZER NUTRIENTS | 90 | LBS/ACRE |
| POTASSIUM FERTILIZER NUTRIENTS | 90 | LBS/ACRE |
| TEMPORARY EROSION CONTROL SEEDING | 100 | LBS/ACRE |
| RIPRAP | 1.5 | TON/CY |

INDEX OF SHEETS

| | |
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| 2 | GENERAL NOTES, PROJECT SPECIFIC NOTES, INDEX OF SHEETS |
| 3 | COMMITMENTS, CONTACTS FOR CLOSURE, DETOUR PLAN |
| 4-5 | SUMMARY OF QUANTITIES |
| 6 | TYPICAL SECTIONS |
| 7 | SCHEDULES OF QUANTITIES |
| 8 | REFERENCE, TIES AND BENCHMARKS |
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| 11-12 | EROSION CONTROL PLAN |
| 13-14 | RIGHT OF WAY PLAN |
| 15-17 | JACK CREEK STRUCTURAL PLANS |
| 18 | BORING LOGS (JACK CREEK) |
| 19-20 | JACK CREEK TRIBUTARY STRUCTURAL PLANS |
| 21 | DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS |
| 22 | PERMANENT SURVEY MARKERS DETAIL |
| 23 | SLOPE STEPS DETAIL |
| 24 | RIPRAP DITCH FOR EROSION PROTECTION |
| 25-26 | BUTT JOINTS |
| 27 | RURAL SIDEROADS FOR "3R" PROJECTS |
| 28-29 | TYPICAL PAVEMENT MARKINGS |
| 30-43 | CROSS SECTIONS |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES,
PROJECT SPECIFIC NOTES,
INDEX OF SHEETS,**

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |
| | |

SCALE: NO SCALE
DATE: 02-19-02
DRAWN BY: UJ
CHECKED BY: M.A.R.

| | | | | |
|---------------------|--------------|---------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 3 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | ILLINOIS | IL 91 | | |

COMMITMENTS

ALL DISTURBED AREAS OF EXISTING VEGETATION AND/OR TREE REMOVAL SHALL BE REESTABLISHED IN ACCORDANCE WITH THE "DISTRICT 4 REVEGETATION PLAN FOR BRIDGE RECONSTRUCTION CONTRACTS," OR DEPARTMENTAL POLICY LEN-14 (POLICY ON REMOVAL AND REPLACEMENT OF TREES).

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

THE CONTRACTOR MUST MEET THE REQUIREMENTS UNDER THE 404 PERMITS FOR EROSION AND SEDIMENT CONTROL FOR IN STREAM WORK ISSUED BY THE U.S. ARMY CORPS OF ENGINEERS. THE PERMITS EXPIRE _____

TREES THAT ARE REMOVED WILL BE REPLACED AT A 1:1 RATIO USING A TREE WHIP MIXTURE. SEE SPECIAL PROVISIONS.

CONTACT THE TRAFFIC OPERATIONS ENGINEER AT (309) 671-4466 FOR PERMANENT ROADWAY PAVEMENT MARKING AFTER CONSTRUCTION.

CONTACTS FOR CLOSURE

THE FOLLOWING ORGANIZATIONS SHALL BE NOTIFIED SEVEN (7) CALENDAR DAYS PRIOR TO THE CLOSING OF IL ROUTE 91.

| | | |
|--|--|--|
| MR. DICK CLIFFORD FIRE CHIEF 114 N. FRANKLIN TOULON, IL 61483 PHONE (309) 286-4541 | MR. AL GLOYD AMBULANCE SERVICE P.O. BOX 190 TOULON, IL 61483 PHONE (309) 286-6262 | MR. DON TURNBULL SCHOOL BUS SERVICE 402 S. FRANKLIN TOULON, IL 61483 PHONE (309) 286-2451 |
| MR. JIM DYSIN STARK COUNTY CHIEF DEPUTY 130 W. JEFFERSON TOULON, IL 61483 PHONE (309) 286-2541 | MR. DAVE MURRAY ELMIRA TOWNSHIP R.R. #1, BOX 132 BRADFORD, IL 61421 PHONE (309) 594-2267 | MR. JERRY FITZPATRICK STARK COUNTY ENGINEER P.O. BOX 655 TOULON, IL 61483 PHONE (309) 286-5031 |

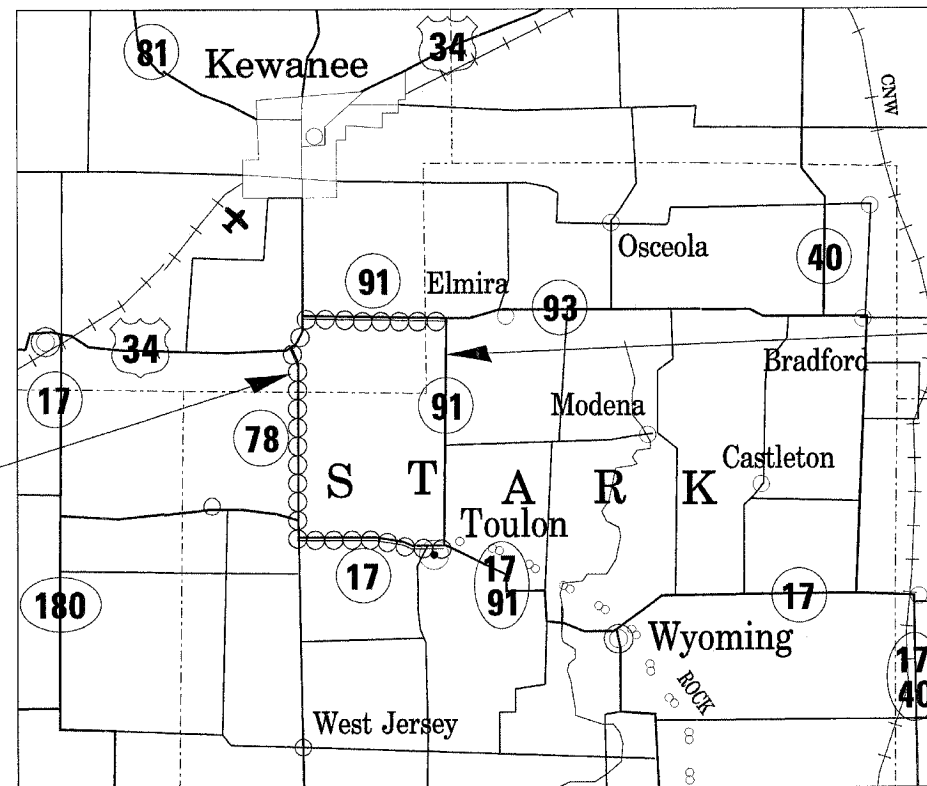
STATUS OF UTILITIES TO BE ADJUSTED

| OFFSET | LOCATION | TYPE OF UTILITY | TYPE OF CONFLICT | DISPOSITION |
|---|----------------|------------------------|------------------|-------------|
| VERIZON 112 W ELM SYCAMORE, IL 60178, PH (815) 895-1515 | | | | |
| RT 45' TO RT 45' | 47+35 TO 51+75 | BURIED TELEPHONE CABLE | CUT | RELOCATE |
| RT 50' TO RT 50' | 49+00 TO 51+90 | BURIED FIBER OPTIC | CUT | RELOCATE |
| RT 41' TO RT 41' | 52+35 TO 58+30 | BURIED TELEPHONE CABLE | CUT | RELOCATE |
| RT 43' TO RT 43' | 52+30 TO 58+35 | BURIED FIBER OPTIC | CUT | RELOCATE |
| RT 41' TO RT 41' | 60+00 TO 61+75 | BURIED TELEPHONE CABLE | CUT | RELOCATE |
| RT 43' TO RT 43' | 60+00 TO 61+75 | BURIED FIBER OPTIC | CUT | RELOCATE |
| ILLINOIS POWER 370 S MAIN STREET DECATUR, IL 62525, PH (800) 892-7715 | | | | |
| RT 40' | 49+20 | POWER POLE | DITCH | RELOCATE |
| RT 40' | 50+50 | POWER POLE | DITCH | RELOCATE |
| RT 41' | 52+00 | POWER POLE | DITCH | RELOCATE |
| RT 40' | 60+50 | POWER POLE | DITCH | RELOCATE |
| RT 40' | 63+00 | POWER POLE | DITCH | RELOCATE |

DETOUR PLAN

THE WORK INCLUDED IN SECTION (108-B-1) BR CONSISTS OF REMOVING AND REPLACING THE EXISTING STRUCTURE WITH A DOUBLE 10' X 9' PRECAST BOX CULVERT AND REPLACING AN EXISTING BOX CULVERT WITH A 10' X 6' PRECAST BOX CULVERT. THESE REPLACEMENTS WILL REQUIRE FAS 1379 (IL 91) TO BE DETOURED. THE REPLACEMENTS ARE TO BE CONSTRUCTED ONE AT A TIME IN ORDER TO KEEP TR47 OPEN TO TRAFFIC AT ALL TIMES.

THE DETOUR WILL CONSIST OF:
 IL 91 - 4.0 MILES
 US 34 - 1.0 MILE
 IL 78 - 5.2 MILES
 IL 17 - 4.0 MILES
 TOTAL - 14.2 MILES (ADVERSE TRAVEL DISTANCE 8 MILES)



PROJECT LOCATION
 STA 46+00 TO STA 63+50

DETOUR ROUTE

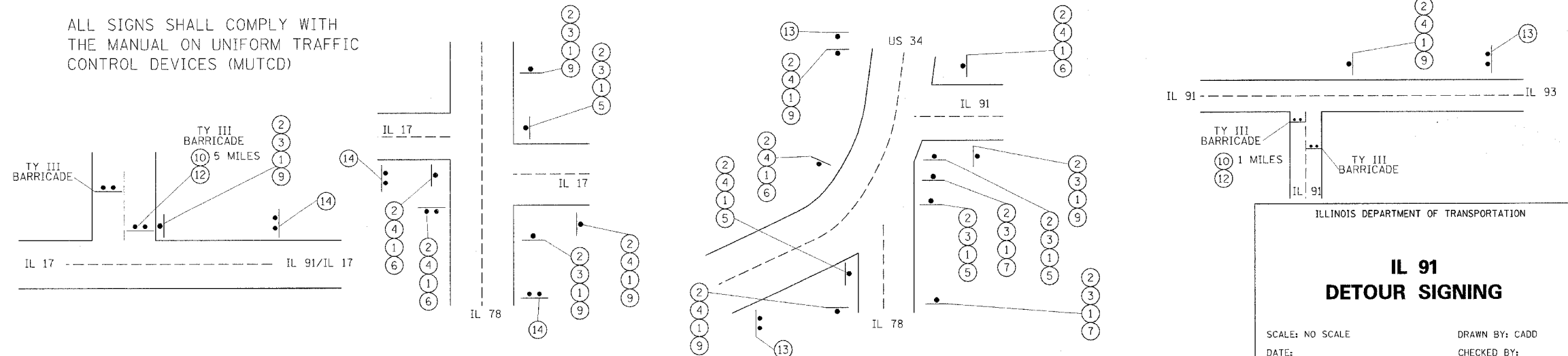


**COMMITMENTS,
 CONTACTS FOR CLOSURE,
 DETOUR PLAN**

DETOUR SIGNING FOR IL 91 WORK

- 1 ILLINOIS 91 30"x36" 26 signs supplied by IDOT
- 2 **DETOUR** 30"x15" 26 signs M4-8
- 3 NORTH 30"x15" 14 signs M3-1
- 4 SOUTH 30"x15" 12 signs M3-3
- 5 → 30"x18" 4 signs M6-1
- 6 ← 30"x18" 4 signs M6-1
- 7 ↗ 30"x18" 2 signs M5-1
- 8 ↘ 30"x18" 0 signs M5-1
- 9 ↑ 30"x18" 16 signs M6-3
- 10 ROAD CLOSED 60"x36" 2 signs MILES AHEAD LOCAL TRAFFIC ONLY One sign will read 1 mile and the other 5 miles
- 11 **DETOUR** 48"x18" 1 sign M4-10
- 12 **DETOUR** 48"x18" 1 sign M4-10
- 13 ILLINOIS 91 CLOSED 60"x36" 3 signs 1 MILE SOUTH OF IL 93 NO THRU TRAFFIC supplied by IDOT
- 14 ILLINOIS 91 CLOSED 60"x36" 3 signs 5 MILE NORTH OF IL 17 NO THRU TRAFFIC supplied by IDOT

ALL SIGNS SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)



**IL 91
 DETOUR SIGNING**

SCALE: NO SCALE
 DATE: _____ DRAWN BY: CADD
 CHECKED BY: _____

| | | | | |
|---------------------|--------------|---------------|--------------|-----------|
| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 4 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL 91 | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

80% FED
20% STATE

80% FED
20% STATE

| CODE NO. | ITEM | UNIT | 80% FED 20% STATE | | | CODE NO. | ITEM | UNIT | 80% FED 20% STATE | | |
|----------|--|-------|------------------------------------|-------|-------|----------|--|-------|------------------------------------|------|-------|
| | | | PROPOSED SN 088-2004 X028-2A | 1000 | TOTAL | | | | PROPOSED SN 088-2004 X028-2A | 1000 | TOTAL |
| 20100210 | TREE REMOVAL, (OVER 15 UNITS DIAMETER) | UNIT | 0 | 35 | 35 | 28200200 | FILTER FABRIC | SQ YD | 0 | 697 | 697 |
| 20100500 | TREE REMOVAL, ACRES | ACRE | 0.0 | 0.1 | 0.1 | 31101200 | SUB-BASE GRANULAR MATERIAL, TYPE B 4" | SQ YD | 0 | 807 | 807 |
| 20200100 | EARTH EXCAVATION | CU YD | 0 | 2808 | 2808 | 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 0 | 2.2 | 2.2 |
| 20200500 | EARTH EXCAVATION WIDENING | CU YD | 0 | 296 | 296 | 40600300 | AGGREGATE (PRIME COAT) | TON | 0 | 11 | 11 |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 204 | 98 | 302 | 40600980 | BITUMINOUS SURFACE REMOVAL - BUTT JOINT | SQ YD | 0 | 174 | 174 |
| 20400800 | FURNISHED EXCAVATION | CU YD | 0 | 1706 | 1706 | 40600990 | TEMPORARY RAMP | SQ YD | 0 | 40 | 40 |
| 20800150 | TRENCH BACKFILL | CU YD | 0 | 22 | 22 | 44000007 | BITUMINOUS SURFACE REMOVAL 2" | SQ YD | 0 | 3380 | 3380 |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 377 | 211 | 588 | 44000100 | PAVEMENT REMOVAL | SQ YD | 0 | 996 | 996 |
| 21101615 | TOPSOIL FURNISH & PLACE, 4" | SQ YD | 0 | 12177 | 12177 | 48101500 | AGGREGATE SHOULDERS, TYPE B 6" | SQ YD | 0 | 1167 | 1167 |
| 25000300 | SEEDING, CLASS 3 | ACRE | 0.0 | 2.4 | 2.4 | 50100300 | REMOVAL OF EXISTING STRUCTURES NO. 1 | EACH | 1 | 0 | 1 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 0 | 216 | 216 | 50100400 | REMOVAL OF EXISTING STRUCTURES NO. 2 | EACH | 0 | 1 | 1 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 0 | 216 | 216 | 50105200 | REMOVE EXISTING CULVERTS | EACH | 0 | 1 | 1 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 0 | 216 | 216 | 51500100 | NAME PLATES | EACH | 1 | 0 | 1 |
| 25100115 | MULCH, METHOD 2 | ACRE | 0 | 2.4 | 2.4 | 54001001 | BOX CULVERT END SECTION, CULVERT NO. 1 | EACH | 2 | 0 | 2 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 0.0 | 1967 | 1967 | 54001002 | BOX CULVERT END SECTION, CULVERT NO. 2 | EACH | 0 | 2 | 2 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 0 | 720 | 720 | 54011006 | PRECAST CONCRETE BOX CULVERT 10' x 6' | FOOT | 0 | 84 | 84 |
| 28000300 | TEMPORARY DITCH CHECKS | EACH | 0 | 15 | 15 | 54011009 | PRECAST CONCRETE BOX CULVERT 10' X 9' | FOOT | 192 | 0 | 192 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 0 | 1228 | 1228 | 54213663 | PRECAST REINFORCED CONCRETE FLARED END SECTION 18" | EACH | 0 | 2 | 2 |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 0 | 1 | 1 | 542A0223 | PIPE CULVERTS, CLASS A, TYPE 1 18" | FOOT | 0 | 74 | 74 |
| 28100207 | STONE RIPRAP, CLASS A4 | TON | 0 | 318 | 318 | 542D0217 | PIPE CULVERTS, CLASS D, TYPE 1 12" | FOOT | 0 | 175 | 175 |
| 28100209 | STONE RIPRAP, CLASS A5 | TON | 0 | 202 | 202 | 63200310 | GUARDRAIL REMOVAL | FOOT | 0 | 1967 | 1967 |

| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|---------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 5 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | | IL 91 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

80% FED.
20% STATE

| CODE NO. | ITEM | UNIT | PROPOSED SN 088-2004 X028-2A | 1000 | TOTAL |
|------------|--|--------|------------------------------------|------|-------|
| 66600105 | FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS | EACH | 0 | 21 | 21 |
| 66700205 | PERMANENT SURVEY MARKERS TYPE I | EACH | 0 | 3 | 3 |
| 66700605 | PERMANENT SURVEY TIES | EACH | 0 | 4 | 4 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 0 | 6 | 6 |
| 67100100 | MOBILIZATION | L SUM | 0 | 1 | 1 |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 0 | 1 | 1 |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 0 | 1 | 1 |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 0 | 1 | 1 |
| 70101830 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 0 | 1 | 1 |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 0 | 175 | 175 |
| 70300200 | TEMPORARY PAVEMENT MARKING | FOOT | 0 | 3938 | 3938 |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 0 | 58 | 58 |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 0 | 3938 | 3938 |
| X0320678 | TREE WHIP MIXTURE | EACH | 0 | 2 | 2 |
| X3560140 | BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 10 INCH | SQ YD | 0 | 1400 | 1400 |
| X4066414 | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 | TON | 0 | 603 | 603 |
| X4066614 | BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50 | TON | 0 | 475 | 475 |
| X4066765 | LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50 | TON | 0 | 129 | 129 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 0 | 1 | 1 |
| Z0023600 | FILLING EXISTING CULVERTS | EACH | 0 | 1 | 1 |
| Z0054500 | ROCK FILL | TON | 409 | 204 | 613 |

*SPECIALTY ITEMS

| REVISIONS | |
|-----------|------|
| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NO SCALE
DATE: 06-02-03

DRAWN BY: BAD
CHECKED BY: JLG

| | | | | |
|---------------------|--------------|---------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 6 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | ILLINOIS | IL 91 | | |

JACK CREEK SEC (108-B-1) BR

STRUCTURAL DESIGN DATA

STRUCTURAL DESIGN TRAFFIC: YEAR 2012

PV= 1519 SU= 23 MU= 23

ROAD/STREET CLASSIFICATION: CLASS III

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P= 0.5 S= 0.5 M= 0.5

TRAFFIC FACTOR: ACTUAL TF= 0.12

MINIMUM TF= _____ AC TYPE= 10

SUBGRADE SUPPORT RATING:

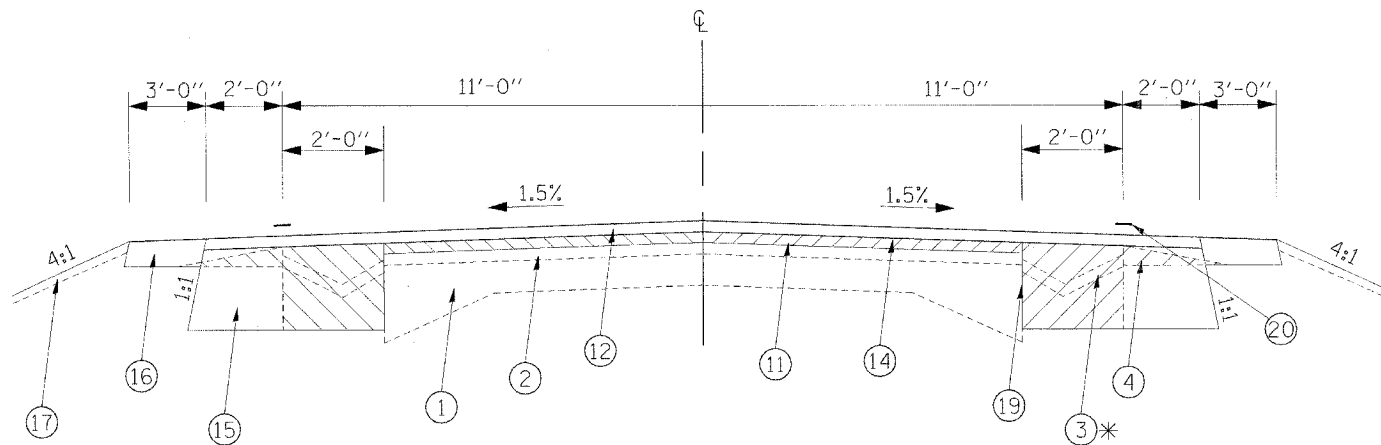
SSR= POOR (STA _____ TO _____)

SSR= _____ (STA _____ TO _____)

USE: BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 2"

BITUMINOUS CONCRETE BINDER COURSE, (TONAGE) SUPERPAVE, IL-19.0, N50, 8 1/2"

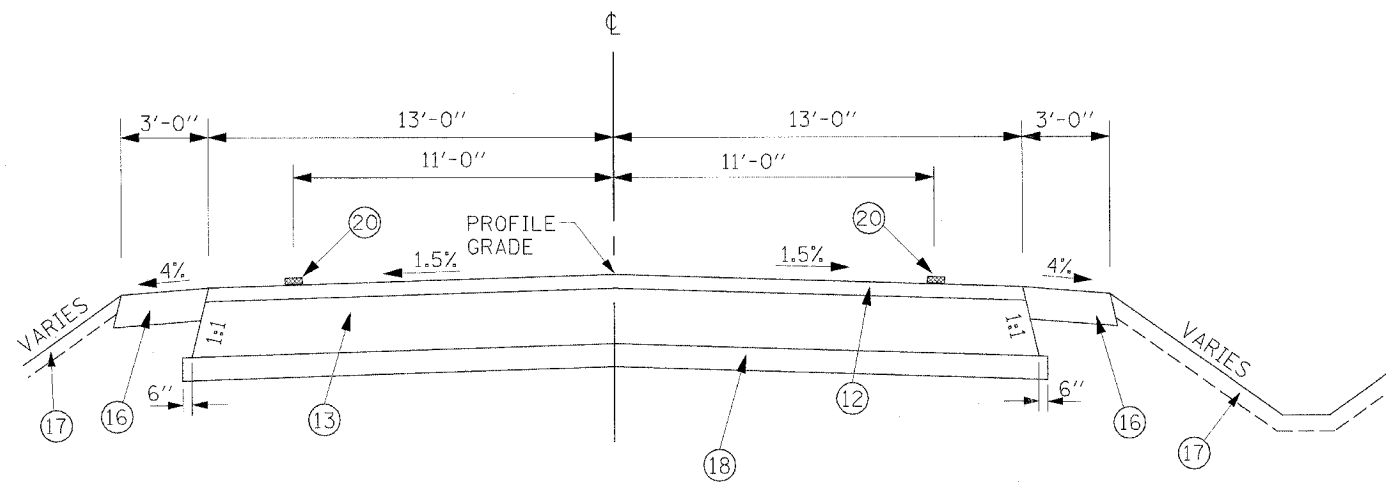
SUB-BASE GRANULAR MATERIAL, TYPE B, 4"



JACK CREEK PROP TYPICAL SECTION

STA 46+00.00 TO STA 50+80.00
STA 51+80.00 TO STA 61+05.00
STA 61+65.00 TO STA 63+50.00

* BURRIED GUTTER
COST OF REMOVAL
INCLUDED WITH PAVEMENT REMOVAL
STA. 46+00 TO STA. 46+50
STA. 61+08 TO STA. 63+50



JACK CREEK PROP TYPICAL SECTION

STA 50+80.00 TO STA 51+80.00
STA 61+05.00 TO STA 61+65.00

LEGEND

- ① EXISTING 9-6-9 CONCRETE PAVEMENT
- ② EXISTING BITUMINOUS OVERLAY
- ③ EXISTING BITUMINOUS WIDENING OR BURRIED GUTTER TO BE REMOVED
- ④ EXISTING AGGREGATE SHOULDERS OR GUTTER TYPE A (MODIFIED) TO BE REMOVED
- ⑪ PROPOSED BITUMINOUS SURFACE REMOVAL 2"
- ⑫ PROPOSED BITUMINOUS CONC. SURFACE COURSE SUPERPAVE MIX "C", N 50 (2")
- ⑬ PROPOSED BITUMINOUS CONC. BINDER COURSE SUPERPAVE IL 19.0, N 50 (8 1/2")
- ⑭ PROPOSED LEVELING BINDER (M.M) SUPERPAVE N50 (3/4")
- ⑮ PROPOSED BITUMINOUS BASE COURSE WIDENING SUPERPAVE 10"
- ⑯ PROPOSED AGGREGATE SHOULDERS TYPE B 6"
- ⑰ PROPOSED TOPSOIL FURNISH & REPLACE, 4"
- ⑱ PROPOSED SUB-BASE GRANULAR MATERIAL TYPE B 4"
- ⑲ PROPOSED FULL DEPTH SAW CUT & PAVENMENT REMOVAL
- ⑳ PROPSED PAVEMENT MARKING LINE 4"

NOTE: SEE CROSS SECTIONS FOR DITCH ELEVATIONS.

| REVISIONS | |
|-----------|------|
| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NO SCALE

DATE: 06-2004

| LOCATION | EARTH EXCAVATION (CU YD) | FOR INFORMATION ONLY | | | | FURNISHED EXCAVATION (CU YD) | TOPSOIL FURNISH AND PLACE, 4" (SQ YD) |
|----------------|--------------------------|---|--------------------|---|------|------------------------------|---------------------------------------|
| | | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD) | EMBANKMENT (CU YD) | EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-) (CU YD) | | | |
| 46+00 TO 50+80 | 823 | 662 | 801 | -139 | 139 | 4096 | |
| 50+80 TO 51+80 | 335 | 251 | 640 | -389 | 389 | 682 | |
| 51+80 TO 61+05 | 1586 | 1275 | 1733 | -458 | 458 | 6099 | |
| 61+05 TO 61+65 | 15 | 11 | 466 | -455 | 455 | 565 | |
| 61+65 TO 63+50 | 49 | 54 | 319 | -265 | 265 | 735 | |
| TOTAL | 2808 | 2253 | 3959 | -1706 | 1706 | 12177 | |

| LOCATION | POINT TYPE | PERM SURV MKRR TYPE I (EACH) | PERM SURV TIE (EACH) |
|------------------|----------------|------------------------------|----------------------|
| 44+38.38 | P.O.T. | 1 | |
| 66+76.34 | P.O.T. | 1 | |
| SW CORNER SE 1/4 | SECTION CORNER | 1 | 4 |
| TOTAL | | 3 | 4 |

| STA LOCATION | SEEDING, CLASS 3 (ACRES) | NITROGEN FERTILIZER NUTRIENT (LBS) | PHOSPHORUS FERTILIZER NUTRIENT (LBS) | POTASSIUM FERTILIZER NUTRIENT (LBS) | MULCH METHOD 2 (ACRE) |
|----------------------|--------------------------|------------------------------------|--------------------------------------|-------------------------------------|-----------------------|
| 46+00.00 TO 63+50.00 | 2.4 | 216 | 216 | 216 | 2.4 |
| TOTAL | 2.4 | 216 | 216 | 216 | 2.4 |

| LOCATION | EROSION CONTROL BLANKET (SQ YD) | TEMP EROSION CONTROL SEEDING (LB) | TEMPORARY DITCH CHECK (EACH) | PERIMETER EROSION BARRIER (FT) | INLET AND PIPE PROTECTION (EACH) |
|-------------------------|---------------------------------|-----------------------------------|------------------------------|--------------------------------|----------------------------------|
| LT 46+00.00 TO 63+50.00 | 697 | 360 | 5 | 968 | |
| RT 46+00.00 TO 63+50.00 | 1270 | 360 | 10 | 260 | |
| RT 8+68.12 TR 47 | | | | | 1 |
| TOTAL | 1967 | 720 | 15 | 1228 | 1 |

| LOCATION | SQ YD |
|------------------|-------|
| LT SIDE | |
| 46+00 TO 51+15 | 114.4 |
| 51+45.5 TO 63+50 | 267.7 |
| RT SIDE | |
| 46+00 TO 51+15 | 114.4 |
| 51+45.5 TO 52+15 | 15.4 |
| 53+36 TO 63+50 | 225.3 |
| 50+80 TO 51+15 | 70.0 |
| 51+45.5 TO 51+80 | 69.0 |
| 61+05 TO 61+65 | 120.0 |
| TOTAL | 996 |

| LOCATION | CU YD |
|------------------|-------|
| LT SIDE | |
| 46+00 TO 46+30 | 1.4 |
| 46+30 TO 51+15 | 44.2 |
| 51+45.5 TO 63+20 | 106.9 |
| 63+20.0 TO 63+50 | 1.4 |
| RT SIDE | |
| 46+00 TO 46+30 | 1.4 |
| 46+30.0 TO 51+15 | 44.2 |
| 51+45.5 TO 52+12 | 6.1 |
| 53+36.0 TO 63+20 | 89.6 |
| 63+20.0 TO 63+50 | 1.4 |
| TOTAL | 296 |

| LOCATION | TREE REMOVAL, (OVER 15 UNITS DIAMETER) (UNIT) | TREE REMOVAL, ACRES (ACRE) | TREE WHIP MIXTURE (EACH) |
|------------------|---|----------------------------|--------------------------|
| 50+00 TO 53+00 | | 0.1 | |
| 51+00.00 41' LT | 15 | | |
| 51+00.00 80' LT | | | 1 |
| 51+39.00 46' LT | 20 | | |
| 51+39.00 100' LT | | | 1 |
| TOTAL | 35 | 0.1 | 2 |

| LOCATION | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD) | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD) | STONE RIPRAP, CLASS A4 (TON) | STONE RIPRAP, CLASS A5 (TON) | FILTER FABRIC FOR USE WITH RIPRAP (SQ YD) | ROCK FILL (TON) |
|------------------------|---|--|------------------------------|------------------------------|---|-----------------|
| RT STRUCTURE 088-2004 | 204 | 377 | 153 | | 230 | 409 |
| LT STRUCTURE 088-2004 | | | | 202 | 220 | |
| LT CULVERT AT 61+35.31 | 102 | 211 | 102 | | 153 | 204 |
| RT CULVERT AT 61+35.31 | | | 63 | | 94 | |
| TOTAL | 306 | 588 | 318 | 202 | 697 | 613 |

| LOCATION | REMOVAL OF EXISTING STRUCTURES NO. 1 (EACH) | REMOVAL OF EXISTING STRUCTURES NO. 2 (EACH) | REMOVE EXISTING CULVERTS (EACH) |
|----------------------|---|---|---------------------------------|
| 46+30.00 TO 50+80.00 | | | 1 |
| 50+80.00 TO 51+80.00 | 1 | | |
| 61+05.00 TO 61+65.00 | | 1 | |
| TOTAL | 1 | 1 | 1 |

| LOCATION | BIT MAT PRIME COAT (TON) | AGGREGATE PRIME COAT (TON) | BIT CONC SURF CSE 2" (TON) | BIT CONC BINDER CSE 10 1/2" (TON) | LEVELING BINDER (MM) SUPERPAVE N50 3/4" (TON) | SUB-BASE GRAN MAT. TYPE B 4" (SQ YD) | BIT BASE CSE WIDENING 10" (SQ YD) | AGG SHOULDERS, TYPE B 6" (SQ YD) |
|----------------|--------------------------|----------------------------|----------------------------|-----------------------------------|---|--------------------------------------|-----------------------------------|----------------------------------|
| 46+00 TO 46+30 | 0.035 | 0.2 | 9.0 | | | | 20.0 | 20.0 |
| 46+30 TO 50+80 | .0520 | 2.6 | 145.6 | | 37.8 | | 400.0 | 300.0 |
| 50+80 TO 51+05 | 0.029 | 0.1 | 8.1 | 42.5 | | 72.2 | | 16.7 |
| 51+05 TO 51+46 | 0.047 | 0.2 | 13.1 | 69.6 | | 117.0 | | 27.0 |
| 51+46 TO 51+80 | 0.040 | 0.2 | 11.2 | 57.8 | | 99.7 | | 23.0 |
| 51+80 TO 52+12 | 0.037 | 0.2 | 10.4 | | 2.7 | | 28.4 | 21.3 |
| 52+12 TO 53+36 | 0.143 | 0.7 | 40.1 | | 10.4 | | 110.2 | 82.7 |
| 53+36 TO 61+05 | 0.889 | 4.4 | 248.8 | | 64.6 | | 683.6 | 512.7 |
| 61+05 TO 61+65 | 0.069 | 0.3 | 19.4 | 101.9 | | 173.3 | | 40.0 |
| 61+65 TO 63+20 | 0.179 | 0.9 | 50.2 | | 13.0 | | 137.8 | 103.3 |
| 63+20 TO 63+50 | 0.035 | 0.2 | 9.0 | | | | 20.0 | 20.0 |
| TR 47 | 0.138 | 1.4 | 38.6 | 202.9 | | | | |
| TOTALS | 2.2 | 11 | 603 | 475 | 129 | 807 | 1400 | 1167 |

| LOCATION | REMOVAL LENGTH, FT |
|-------------------------|--------------------|
| RT 46+56.00 TO 51+06.00 | 451' |
| LT 46+77.00 TO 51+27.00 | 450' |
| RT 51+40.00 TO 52+41.00 | 101' |
| LT 51+60.00 TO 52+73.00 | 114' |
| LT 58+39.00 TO 62+89.00 | 451' |
| RT 58+81.00 TO 62+81.00 | 400' |
| TOTAL | 1967 |

| LOCATION | EACH |
|----------------|------|
| 46+00 TO 46+30 | 1 |
| TOTAL | 1 |

| LOCATION | CLASS A TYPE 1, 18" (FT) | CLASS D TYPE 1, 12" (FT) | PRCFES 18" (EACH) | TRENCH BACKFILL (CU YD) |
|---------------|--------------------------|--------------------------|-------------------|-------------------------|
| 61+35.31 | | 175 | | |
| 8+68.12 TR 47 | 74 | | 2 | 22 |
| TOTAL | 74 | 175 | 2 | 22 |

| LOCATION | SHORT-TERM PAVEMENT MARKING (FOOT) | TEMPORARY PAVEMENT MARKING (FOOT) | WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT) | PAIN PAVEMENT MARKING LINE 2 - 4" WHITE (FT) | 4" YELLOW (FT) |
|----------------------|------------------------------------|-----------------------------------|--|--|----------------|
| 46+00.00 TO 63+50.00 | 175 | 3938 | 58 | 3500 | 438 |
| TOTAL | 175 | 3938 | 58 | 3938 | |

| STA LOCATION | ENGINEER'S FIELD OFFICE TYPE A (CAL MO) | MOBILIZATION (L SUM) | CONSTRUCTION LAYOUT (EACH) |
|----------------------|---|----------------------|----------------------------|
| 46+00.00 TO 63+50.00 | 6 | 1 | 1 |
| TOTAL | 6 | 1 | 1 |

| STATION | OFFSET | EACH |
|----------|---------|------|
| 46+00.00 | 40' LT | 1 |
| 46+00.00 | 55' LT | 1 |
| 49+00.00 | 55' LT | 1 |
| 51+00.00 | 100' LT | 1 |
| 53+04.76 | 100' LT | 1 |
| 53+04.57 | 50' LT | 1 |
| 59+00.00 | 50' LT | 1 |
| 60+00.00 | 60' LT | 1 |
| 61+25.00 | 90' LT | 1 |
| 63+00.00 | 40' LT | 1 |
| 46+50.00 | 40' RT | 1 |
| 50+50.00 | 80' RT | 1 |
| 52+53.88 | 80' RT | 1 |
| 53+04.04 | 50' RT | 1 |
| 55+00.00 | 50' RT | 1 |
| 55+50.00 | 60' RT | 1 |
| 57+50.00 | 60' RT | 1 |
| 58+00.00 | 50' RT | 1 |
| 60+00.00 | 50' RT | 1 |
| 61+50.00 | 90' RT | 1 |
| 62+50.00 | 40' RT | 1 |
| TOTAL | | 21 |

| LOCATION | BIT SURF REM 2" | BIT SURF REM BUTT-JOINT | TEMPORARY RAMP |
|----------------|-----------------|-------------------------|----------------|
| 46+00 TO 46+30 | | 87 | 20 |
| 46+30 TO 50+80 | 900 | | |
| 51+80 TO 61+05 | 2050 | | |
| 61+05 TO 61+65 | 120 | | |
| 61+65 TO 63+20 | 310 | | |
| 63+20 TO 63+50 | | 87 | 20 |
| TOTAL | 3380 | 174 | 40 |

| STA LOCATION | NAME PLATES (EACH) | BOX CULVERT END SECTION CUL NO 1 (EACH) | BOX CULVERT END SECTION CUL NO 2 (EACH) | PRECAST CONCRETE BOX CULVERT 10'X6' (FOOT) | PRECAST CONCRETE BOX CULVERT 10'X9' (FOOT) |
|------------------------|--------------------|---|---|--|--|
| 51+30.00 SN 088-2004 | 1 | | 2 | 84 | |
| 61+36.31 JACK TRIB CUL | | 2 | | | 192 |
| TOTAL | 1 | 2 | 2 | 84 | 192 |

| STA LOCATION | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 |
|----------------------|---|---|---|---|
| 46+00.00 TO 63+50.00 | 1 | 1 | 1 | 1 |
| TOTAL | 1 | 1 | 1 | 1 |

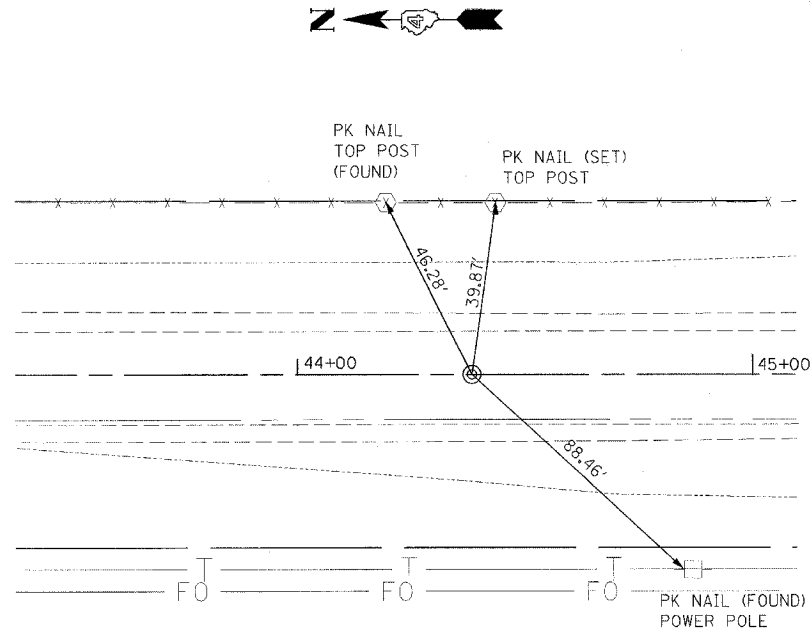
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

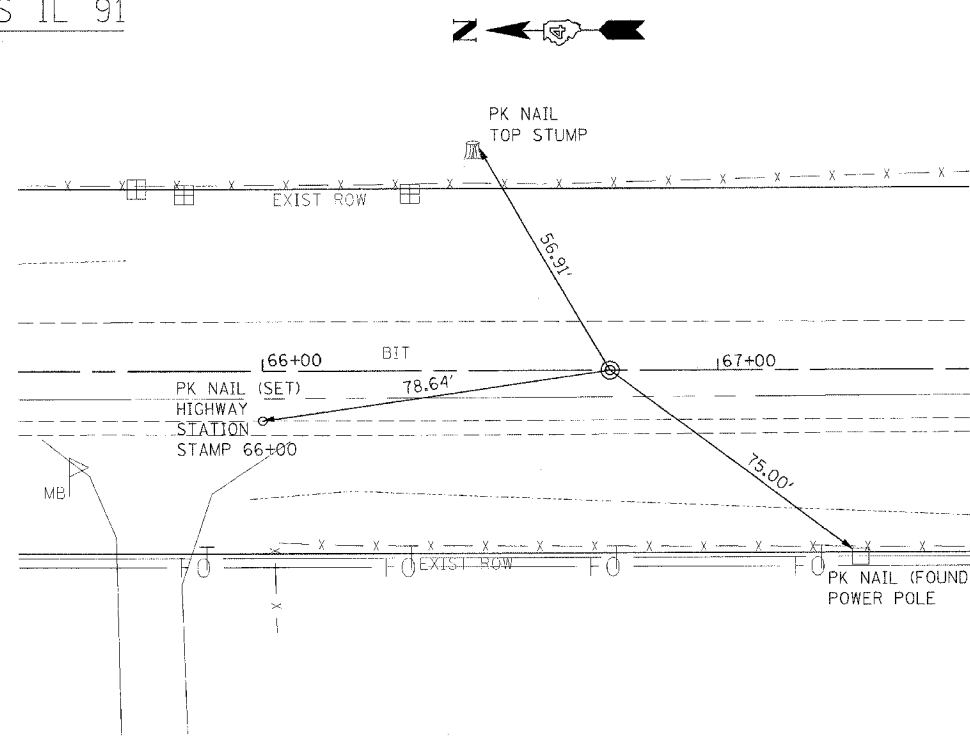
SCALE: NO SCALE
DATE: 06-02-03
DRAWN BY: BAD
CHECKED BY: JLG

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|---------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 8 |
| STA. 46+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL 91 | |

TIE POINTS IL 91

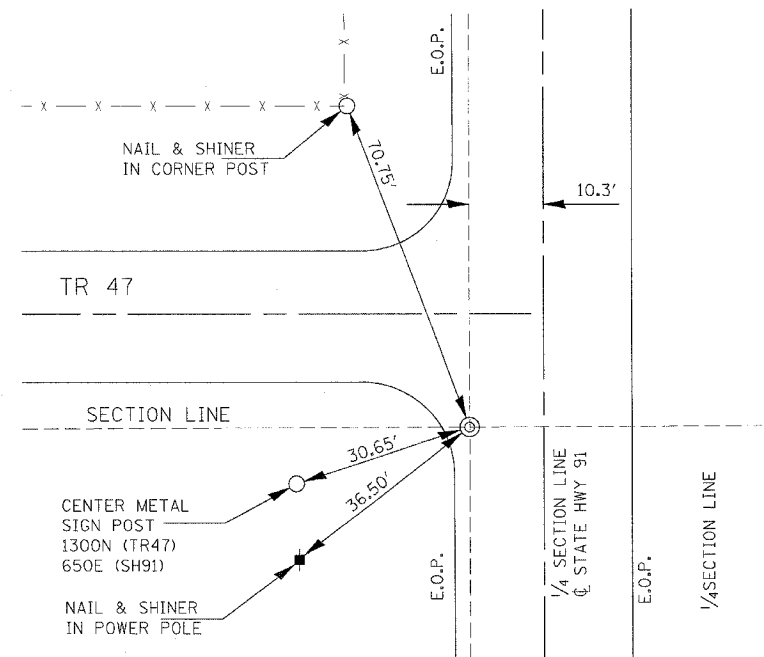


POT STA 44+38.38
PK NAIL FOUND
⊥ ROAD POINT #3



POT STA 66+76.34
RE-SET PK NAIL
⊥ HIGHWAY
POINT #1

STA 46+00 TO STA 63+50



SOUTHWEST CORNER, SOUTHEAST 1/4
PK NAIL & SHINER (SET)

BENCHMARKS IL 91

BM #1 STA 51+25± 25'± LT
CHISELED SQUARE IN NW WINGWALL
OF SN 088-0015 EL 732.81

BM #2 STA 58+03 39' RT
RR SPIKE IN POWER POLE
EL 736.70

| REVISIONS | |
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| NAME | DATE |
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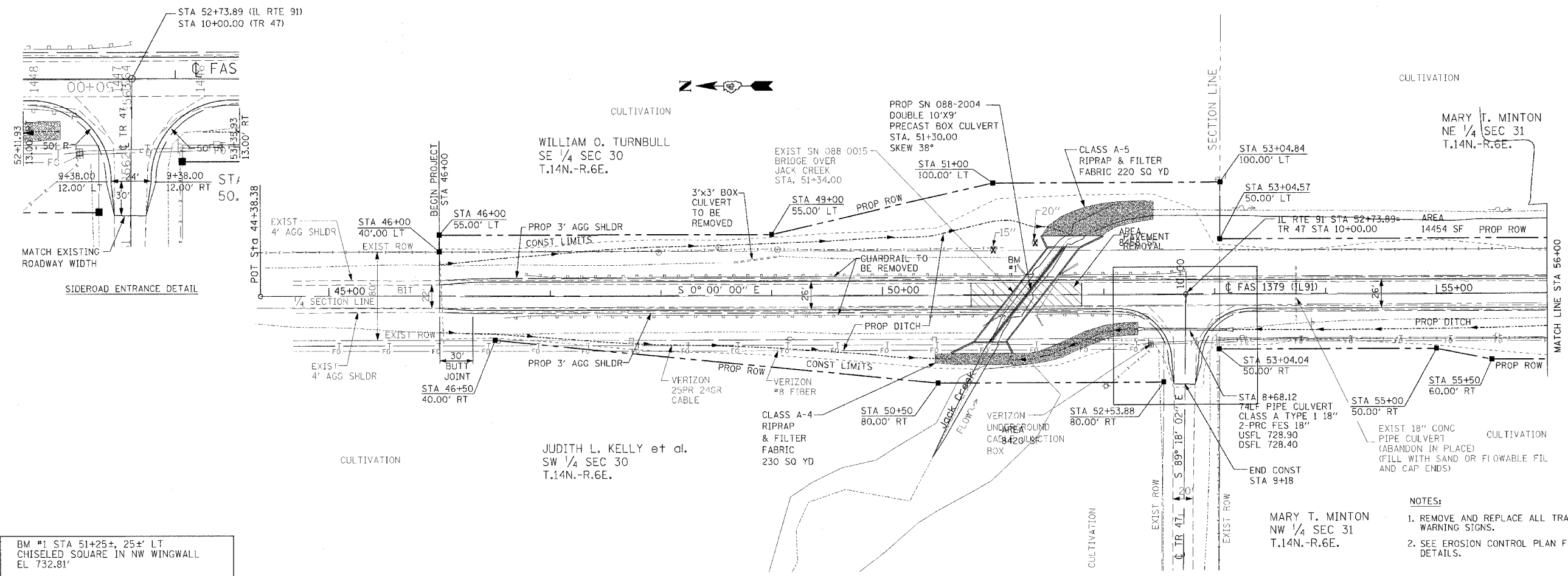
ILLINOIS DEPARTMENT OF TRANSPORTATION

REFERENCE, TIES
AND BENCHMARKS

SCALE: NO SCALE
DATE: 06-02-03

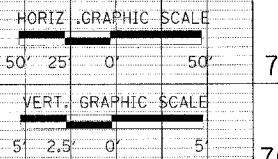
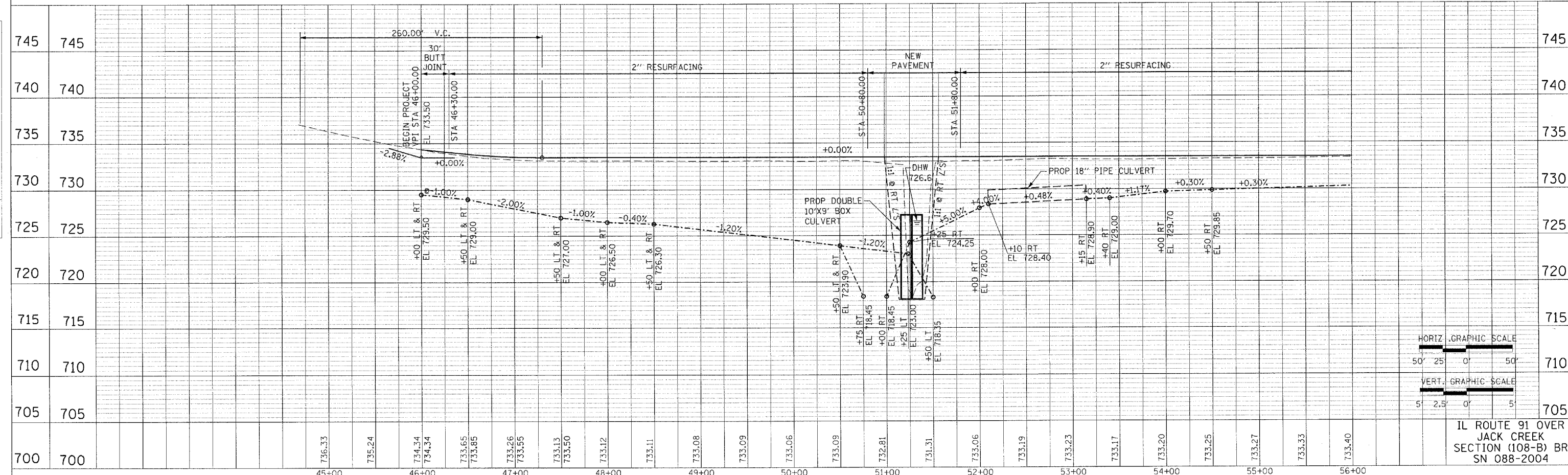
DRAWN BY: BAD
CHECKED BY: JLG

| CONTRACT NO. 68430 | | | | |
|--------------------------------|--------------|--------|--------------|-----------|
| F.A.S. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 9 |
| STA. 46+00.00 TO STA. 56+00.00 | | | | |
| FED. ROAD DIST. NO. ILLINOIS | | | IL 91 | |



BM #1 STA 51+25+, 25' LT
CHISELED SQUARE IN NW WINGWALL
EL 732.81'

- NOTES:**
1. REMOVE AND REPLACE ALL TRAFFIC WARNING SIGNS.
 2. SEE EROSION CONTROL PLAN FOR ADDITIONAL DETAILS.



IL ROUTE 91 OVER JACK CREEK
SECTION (108-B) BR
SN 088-2004

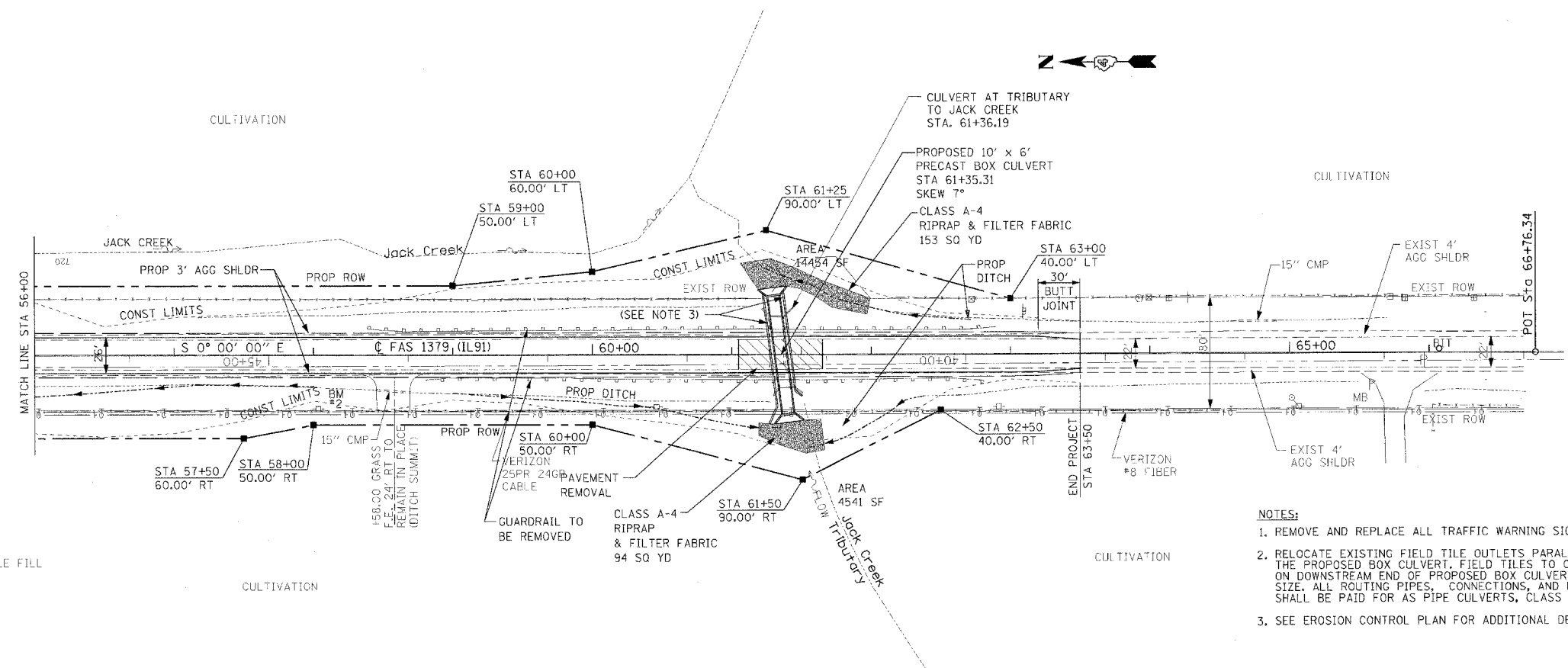
| PLAN | DATE |
|----------|------|
| SURVEYED | |
| ALIGNED | |
| CHECKED | |
| BY | |
| NO. | |

| PROFILE | DATE |
|----------------|------|
| SURVEYED | |
| GRADES CHECKED | |
| BY | |
| NO. | |

| CONTRACT NO. 68430 | | | | |
|---------------------|--------------|------------------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-D) BR | STARK | 43 | 10 |
| STA. 56+00.00 | | TO STA. 63+50.00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL RTE 91 | |

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|------|----|------|----|
| DATE | BY | DATE | BY |
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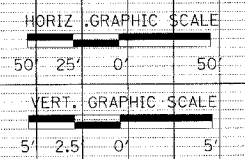
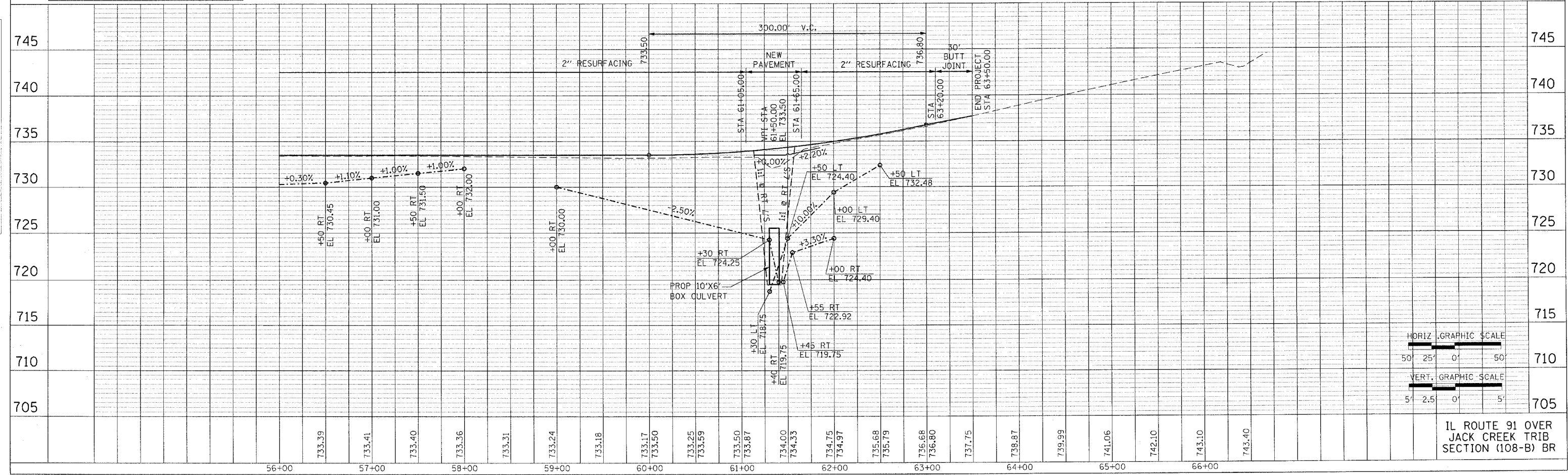
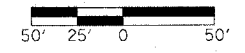
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|------|----|------|----|
| DATE | BY | DATE | BY |
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EXIST 18" CONC PIPE CULVERT (ABANDON IN PLACE) (FILL WITH SAND OR FLOWABLE FILL AND CAP ENDS)

- NOTES:**
1. REMOVE AND REPLACE ALL TRAFFIC WARNING SIGNS.
 2. RELOCATE EXISTING FIELD TILE OUTLETS PARALLEL TO THE OUTSIDE FACE OF THE PROPOSED BOX CULVERT. FIELD TILES TO OUTLET THROUGH WINGWALLS ON DOWNSTREAM END OF PROPOSED BOX CULVERT. MATCH EXISTING TILES SIZE. ALL ROUTING PIPES, CONNECTIONS, AND EXCAVATION FOR RELOCATING SHALL BE PAID FOR AS PIPE CULVERTS, CLASS D, TYPE I 12" (175 LF ALLOWED)
 3. SEE EROSION CONTROL PLAN FOR ADDITIONAL DETAILS.

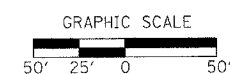
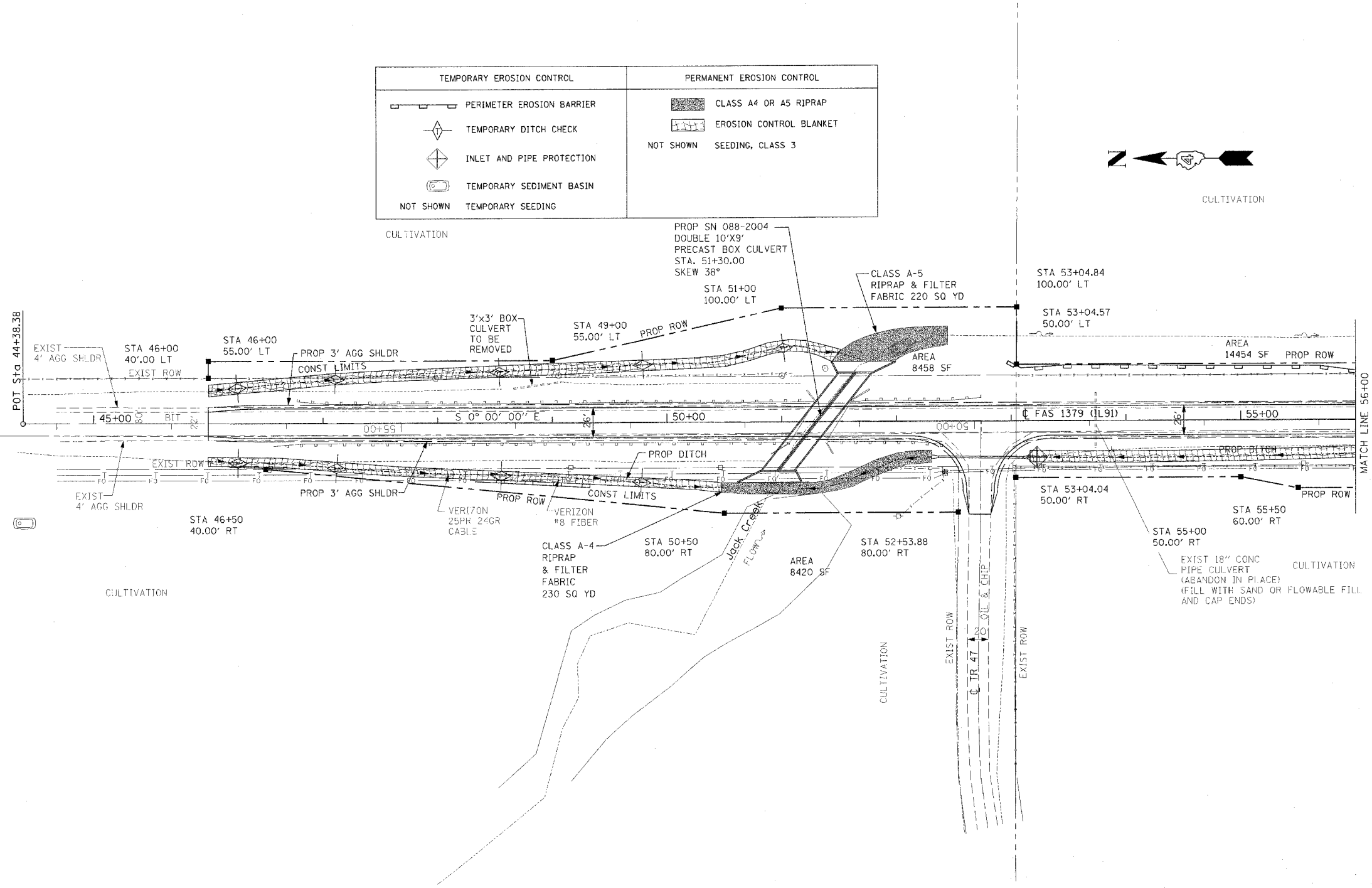
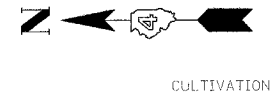
BM #2 STA 58+03.00, 39.00' RT. RR SPIKE IN POWER POLE EL 736.70



IL ROUTE 91 OVER JACK CREEK TRIB SECTION (108-B) BR

| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|---------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 11 |
| STA. 46+00 | | TO STA. 57+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL 91 | |

| TEMPORARY EROSION CONTROL | | PERMANENT EROSION CONTROL | |
|---------------------------|---------------------------|---------------------------|-------------------------|
| | PERIMETER EROSION BARRIER | | CLASS A4 OR A5 RIPRAP |
| | TEMPORARY DITCH CHECK | | EROSION CONTROL BLANKET |
| | INLET AND PIPE PROTECTION | NOT SHOWN | SEEDING, CLASS 3 |
| | TEMPORARY SEDIMENT BASIN | | |
| NOT SHOWN | TEMPORARY SEEDING | | |



| REVISIONS | |
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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

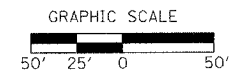
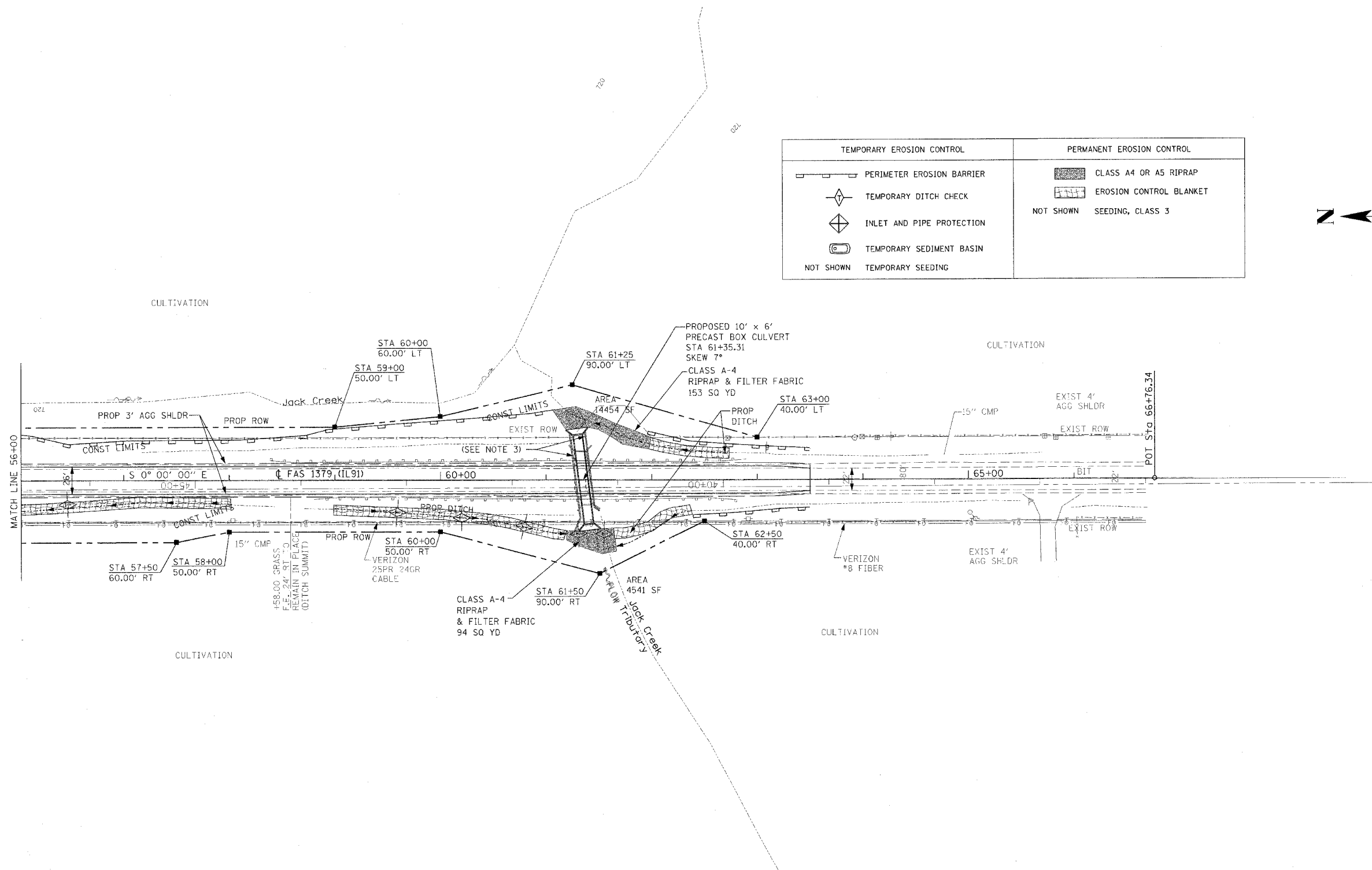
JACK CREEK EROSION CONTROL PLAN

SCALE: 1"=50'
DATE: 06-02-03

DRAWN BY: BAD
CHECKED BY: JLG

| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|---------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 12 |
| STA. 57+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL 91 | |

| TEMPORARY EROSION CONTROL | | PERMANENT EROSION CONTROL | |
|---------------------------|---------------------------|---------------------------|-------------------------|
| | PERIMETER EROSION BARRIER | | CLASS A4 OR A5 RIPRAP |
| | TEMPORARY DITCH CHECK | | EROSION CONTROL BLANKET |
| | INLET AND PIPE PROTECTION | NOT SHOWN | SEEDING, CLASS 3 |
| | TEMPORARY SEDIMENT BASIN | | |
| NOT SHOWN | TEMPORARY SEEDING | | |



| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |

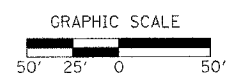
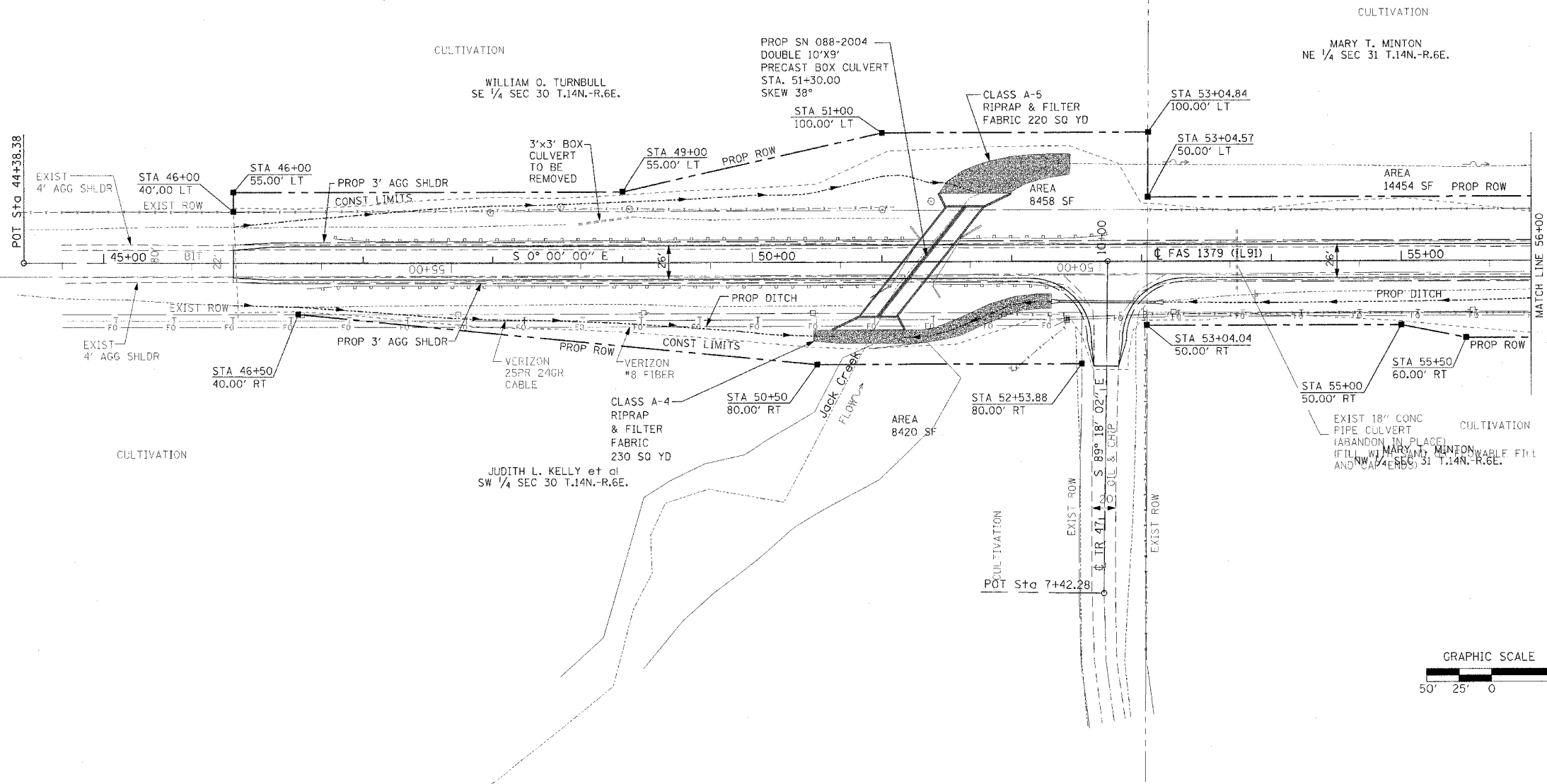
ILLINOIS DEPARTMENT OF TRANSPORTATION

JACK CREEK TRIBUTARY EROSION CONTROL PLAN

SCALE: 1"=50'
DATE: 10-15-02

DRAWN BY: B.A.D.
CHECKED BY: M.A.R.

| | | | | |
|---------------------|--------------|---------------|--------------|-----------|
| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 13 |
| STA. 46+00 | | TO STA. 57+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | IL 91 | |



| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |

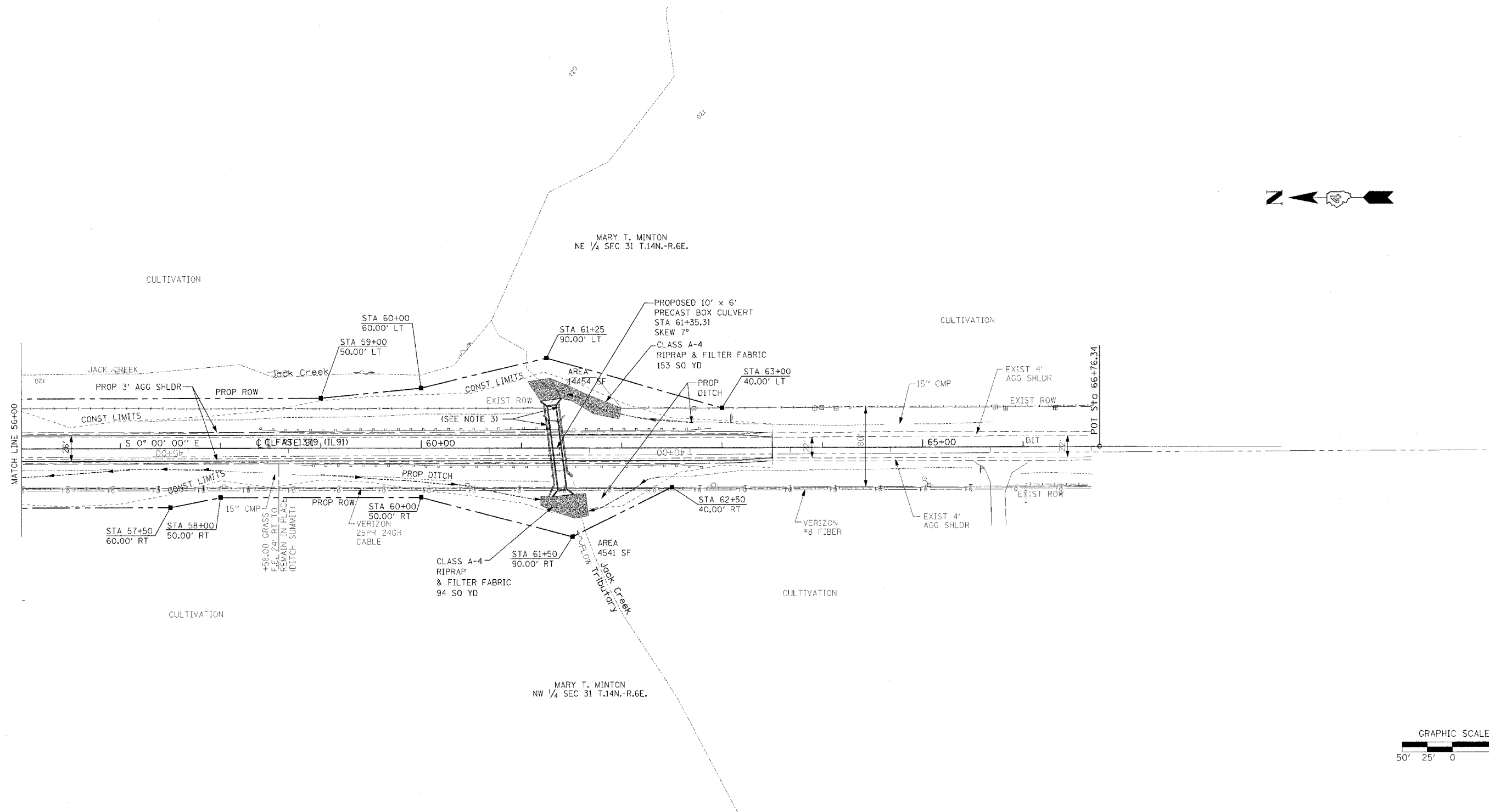
ILLINOIS DEPARTMENT OF TRANSPORTATION

JACK CREEK ROW PLAN

SCALE: 1"=50'
DATE: 06-02-03

DRAWN BY: BAD
CHECKED BY: JLG

| FAS | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|--------------|---------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 14 |
| STA. 57+00 | | TO STA. 63+50 | | |
| FED. ROAD DIST. NO. ILLINOIS | | IL 91 | | |



ILLINOIS DEPARTMENT OF TRANSPORTATION

JACK CREEK TRIBUTARY ROW PLAN

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

SCALE: 1"=50'
DATE: 06-02-03

DRAWN BY: BAD
CHECKED BY: JLG

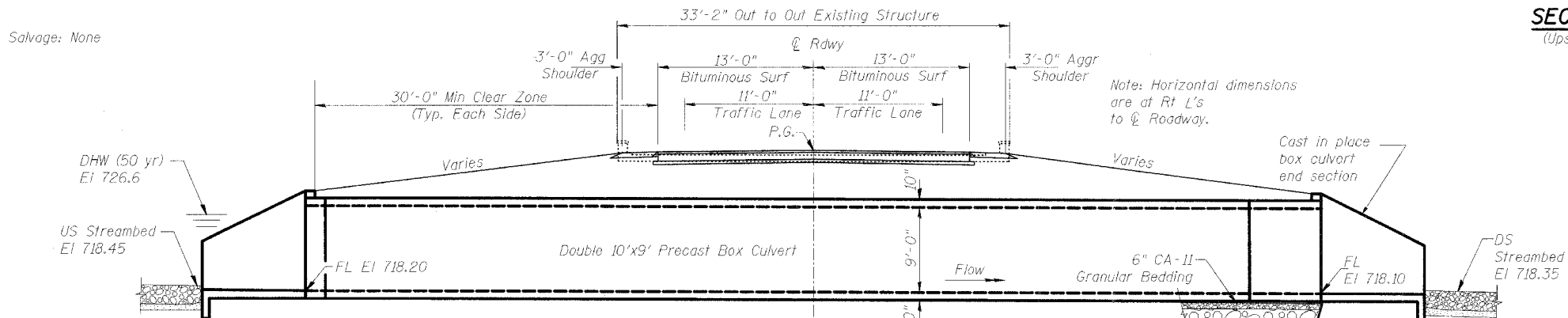
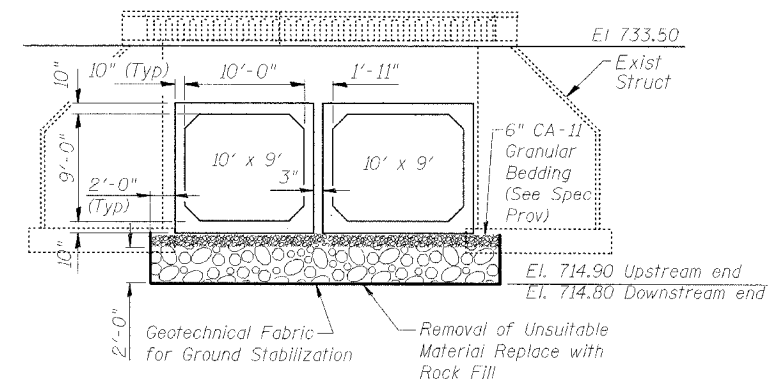
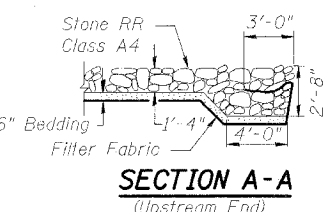
Bench Mark: Sta 60+24± 25'± Rt, Chiseled square in NW wingwall, El 732.81

Existing Structure: S.N. 088-0015, concrete slab 30'-5" Bk to Bk closed abutments on spread footings. Width of bridge 33'-2" Out-to-Out. Built as Section 108-B (1933). The contractor shall remove the existing structure.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|---------------|-------------|--------------------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1)BR | STARK | 43 | 15 |
| STA. 51+30.00 | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |

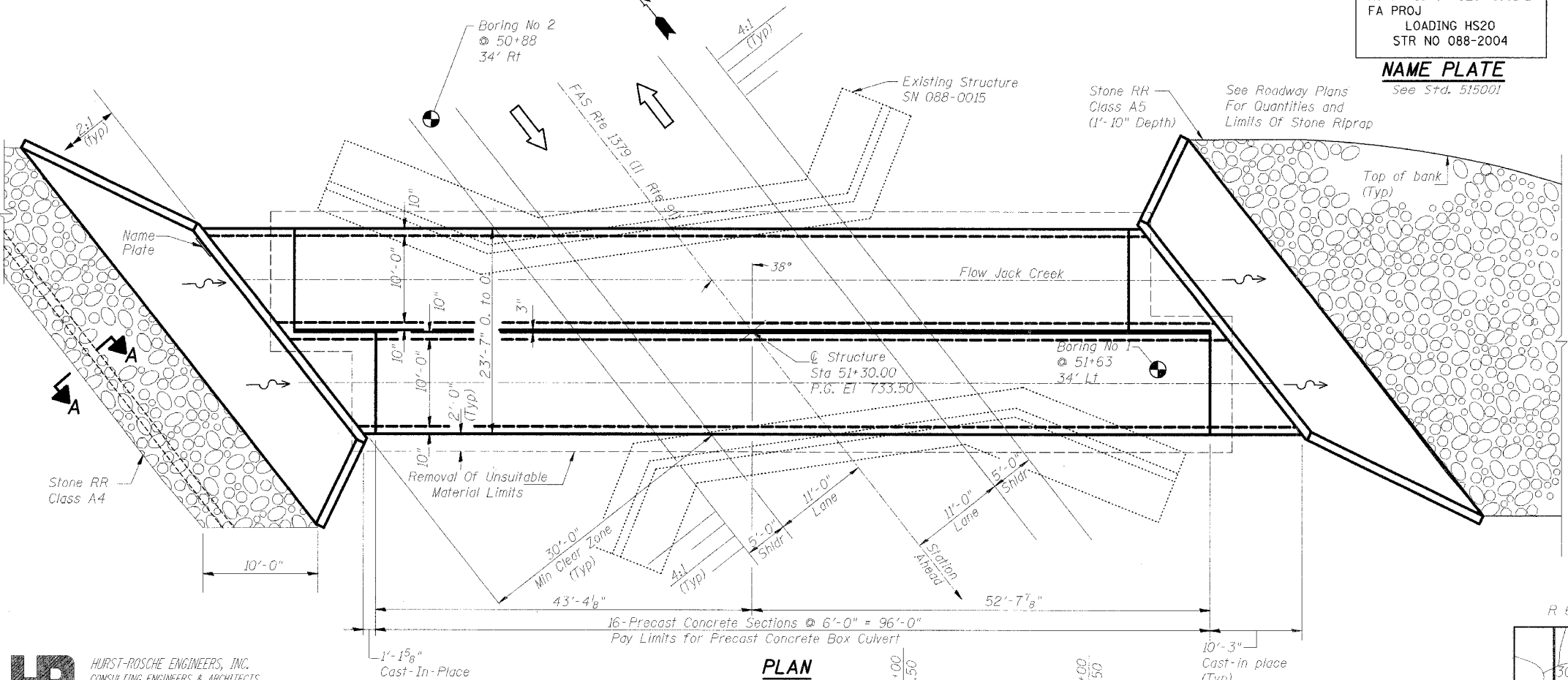
Salvage: None



Note: Precast culvert sections at the ends of each barrel are to have exposed reinforcing bars to be tied into cast in place portion.

STA 51+30.00
BUILT 20... BY
STATE OF ILLINOIS
FAS RT 1379 SEC (108B)BR
FA PROJ
LOADING HS20
STR NO 088-2004
NAME PLATE
See Std. 515001

- GENERAL NOTES**
1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
 2. All exposed edges shall have 3/4" chamfer.
 3. For back filling and embankment see Standard Specifications Art 502
 4. This box culvert has a fill height of 5.5 feet. The precast concrete box culvert shall conform to the requirements of AASHTO M 259.
 5. Precast end sections are not allowed.
 6. Remove existing structure including wings, abutments, and footings. Cut off piles at bottom of unsuitable material excavation.
 7. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

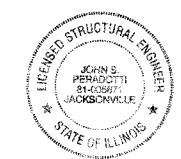


TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|-------|-------|
| Removal and Disposal of Unsuitable Material | Cu Yd | 204 |
| Geotechnical Fabric for Ground Stabilization | Sq Yd | 377 |
| Removal of Existing Structures | Each | 1 |
| Name Plates | Each | 1 |
| Box Culvert End Section, Culvert No 1 | Each | 2 |
| Precast Concrete Box Culvert 10' x 9' | Foot | 192 |
| * Rock Fill | Ton | 409 |

* See Special Provisions

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (ITD)
ENGINEER OF BRIDGES AND STRUCTURES



John S. Peradotti 4-25-06
John S. Peradotti
Licensed Structural Engineer
in Illinois No. 081-005671
License Expires 11/30/06

HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

| | |
|----------|-----|
| DESIGNED | BWP |
| CHECKED | JSP |
| DRAWN | BAD |
| CHECKED | JSP |

WATERWAY INFORMATION

| Drainage Area = 4.4 Sq mi | | Low Grade El 733.0 | | Sta 51+50 | |
|---------------------------|---------|--------------------|---------------|---------------|--------------|
| Flood | Freq Yr | Q cfs | Opening sq ft | Head - ft | Headwater El |
| | | | Exist Prop | Exist Prop | Exist Prop |
| Design | 50 | 1250 | 166 160 | 726.6 0.8 0.4 | 727.4 727.0 |
| Base | 100 | 1460 | 174 166 | 726.9 1.0 1.0 | 727.9 727.9 |
| Overtopping | | | | | |
| Max Calc | 500 | 1950 | 190 178 | 727.5 1.2 2.8 | 728.7 730.3 |

PROFILE GRADE

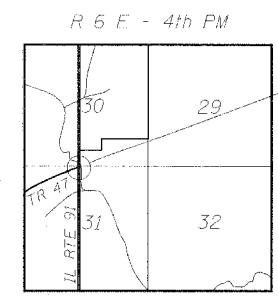
DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
Ty = 60,000 psi (Reinf)

DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999 & 2000 Interims
LOADING HS 20-44
Allow 50 lb/sf for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.0



LOCATION SKETCH

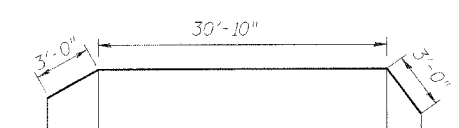
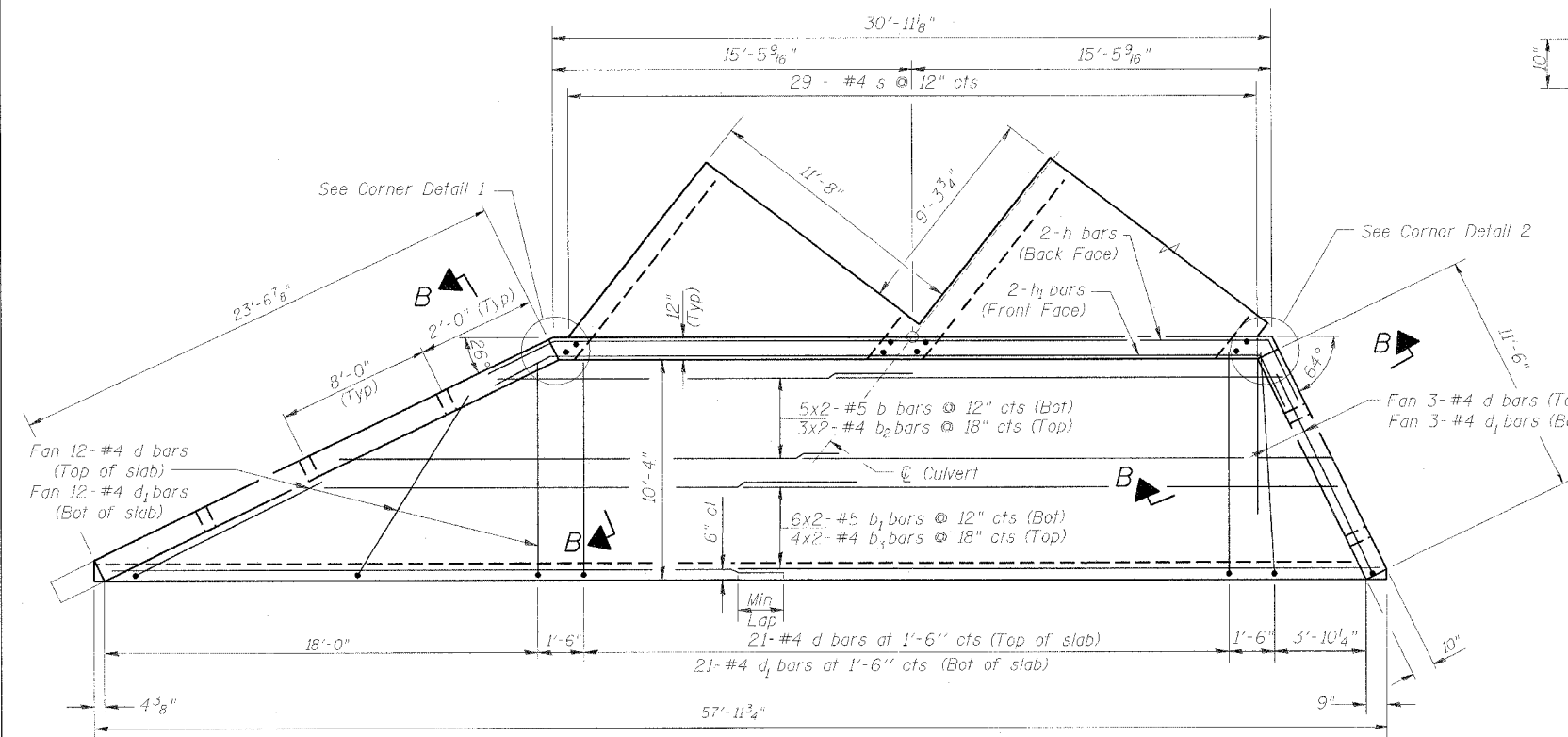
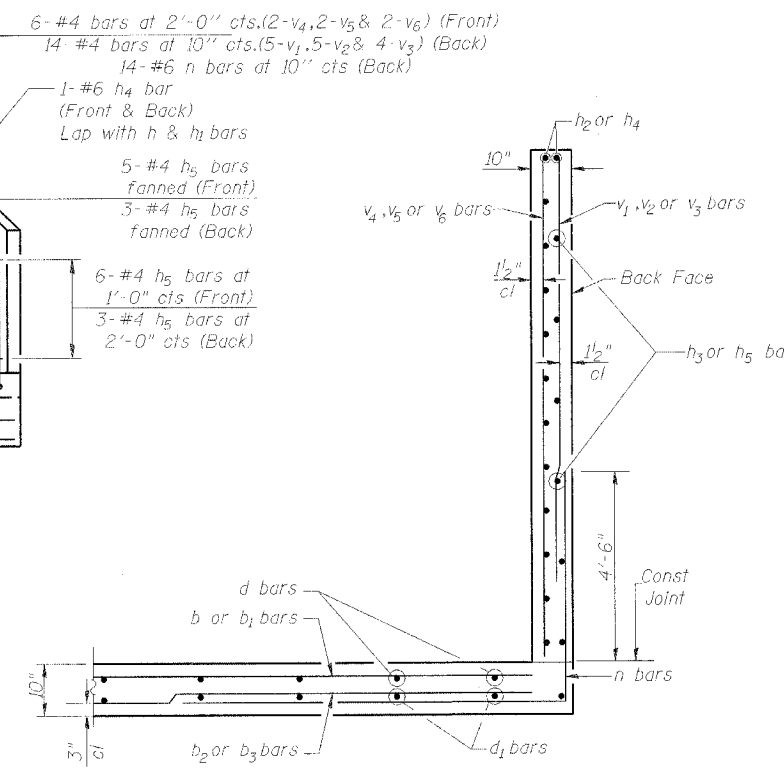
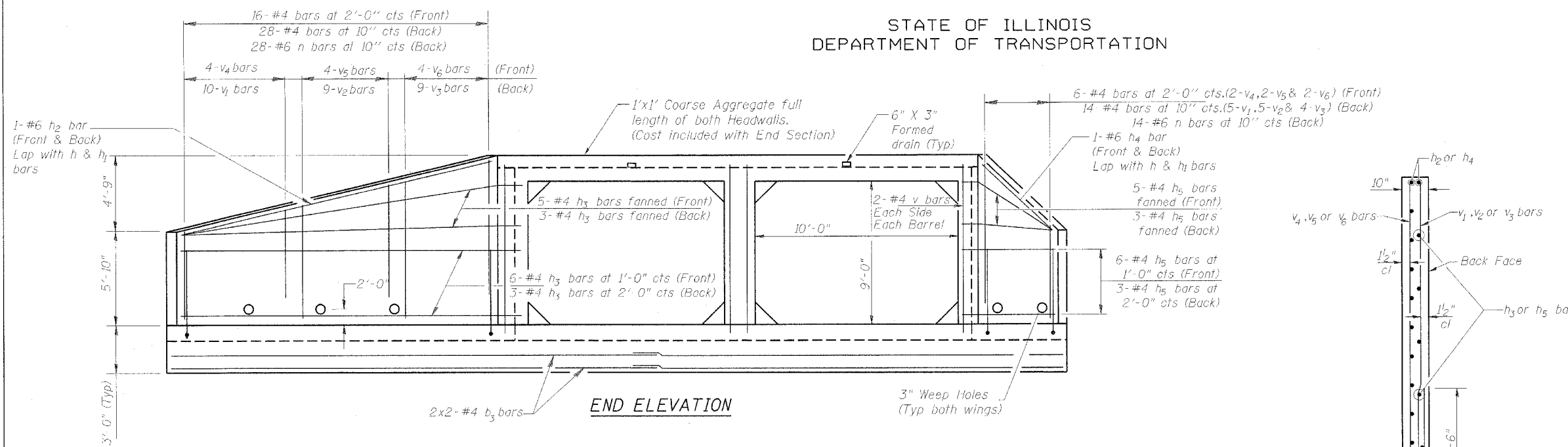
GENERAL PLAN & ELEVATION
FAS 1379 (IL RTE 91) OVER
JACK CREEK
SECTION (108B)BR
STARK COUNTY STA 51+30.00
SN 088-2004

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

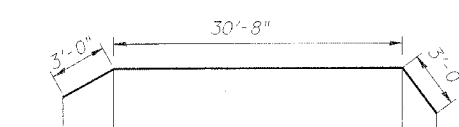
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|------------|--------------|-----------|-----------------|-------------|
| FAP RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
| 1379 | (108-B-1) BR | STARK | 43 | 16 |
| STA | 51+30.00 | TO STA | | |
| | ILLINOIS | IL RTE 91 | | |

**** BILL OF MATERIAL**

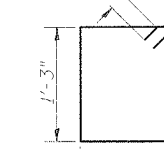
| Bar | No. | Size | Length | Shape |
|--------------------------------|-----|-------|---------|-------|
| a ₁ | 32 | #7 | 12'-10" | U |
| a ₂ | 112 | #7 | 14'-0" | U |
| a ₃ | 4 | #4 | 11'-2" | U |
| a ₄ | 8 | #4 | 14'-2" | U |
| b | 20 | #5 | 22'-7" | U |
| b ₁ | 24 | #5 | 29'-8" | U |
| b ₂ | 12 | #4 | 22'-5" | U |
| b ₃ | 24 | #4 | 29'-6" | U |
| d | 60 | #4 | 13'-5" | U |
| d ₁ | 60 | #4 | 10'-10" | U |
| h | 4 | #6 | 36'-10" | U |
| h ₁ | 4 | #6 | 36'-8" | U |
| h ₂ | 4 | #6 | 23'-9" | U |
| h ₃ | 34 | #4 | 23'-8" | U |
| h ₄ | 4 | #6 | 12'-3" | U |
| h ₅ | 34 | #4 | 12'-10" | U |
| h ₆ | 24 | #6 | 12'-6" | U |
| h ₇ | 36 | #6 | 10'-6" | U |
| h ₈ | 36 | #6 | 11'-9" | U |
| h ₉ | 36 | #6 | 2'-6" | U |
| n(E) | 84 | #6 | 13'-3" | L |
| s | 58 | #4 | 4'-7" | □ |
| v | 24 | #4 | 10'-10" | U |
| v ₁ | 30 | #4 | 4'-6" | U |
| v ₂ | 28 | #4 | 6'-2" | U |
| v ₃ | 26 | #4 | 7'-9" | U |
| v ₄ | 12 | #4 | 5'-6" | U |
| v ₅ | 12 | #4 | 7'-2" | U |
| v ₆ | 12 | #4 | 8'-9" | U |
| v ₇ (E) | 72 | #4 | 2'-3" | U |
| v ₈ | 72 | #4 | 9'-0" | U |
| Concrete | | Cu Yd | 93.1 | |
| Reinforcing Bars | | Pound | 11,560 | |
| Reinforcing Bars, Epoxy Coated | | Pound | 1,780 | |



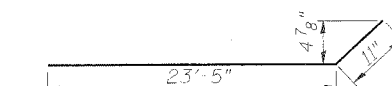
BAR h



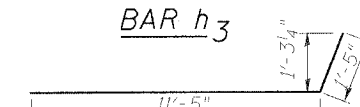
BAR h₁



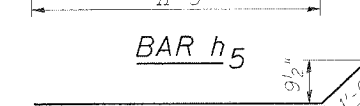
BAR s



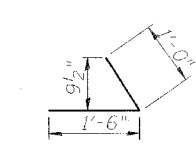
BAR h₃



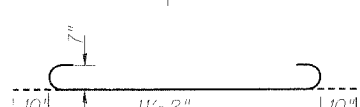
BAR h₅



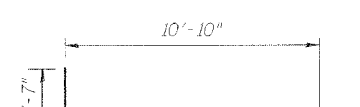
BAR h₈



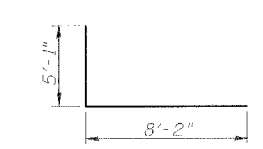
BAR h₉



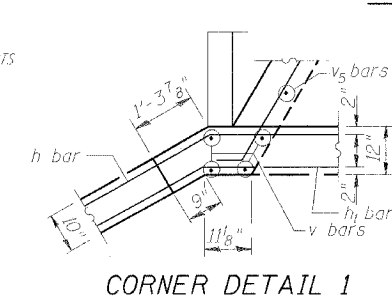
BAR a₁



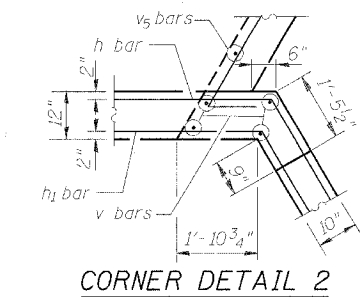
BAR d



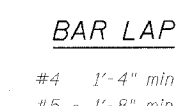
BAR n



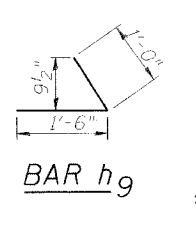
CORNER DETAIL 1



CORNER DETAIL 2



BAR LAP



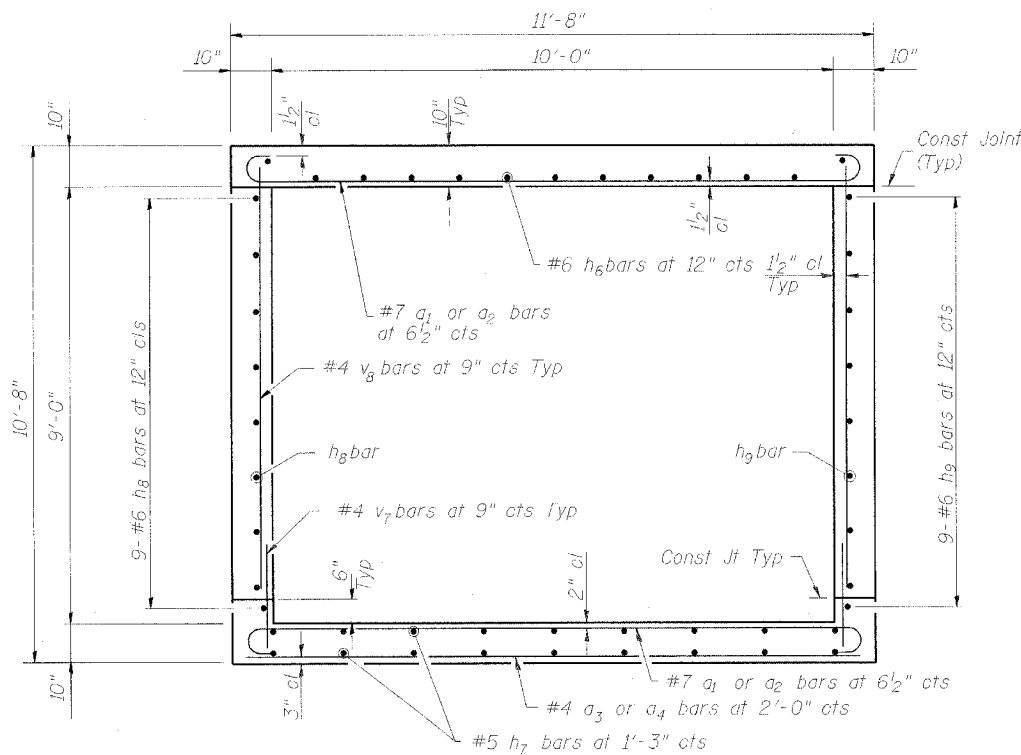
END SECTION DETAILS
FAS 1379 (IL RTE 91) OVER
JACK CREEK
SECTION (108B)BR
STARK COUNTY STA 51+30.00
SN 088-2004

HR HURST ROSCHE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

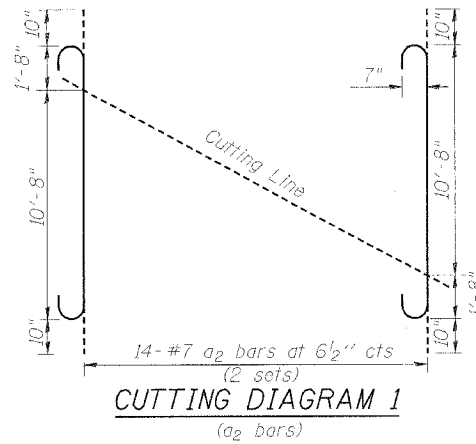
| | |
|----------|-----|
| DESIGNED | BWP |
| CHECKED | JSP |
| DRAWN | BWP |
| CHECKED | JSP |

| | | | | |
|--------------|-----------------|----------|--------------|----------|
| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
| 1379 | (108-B-1) BR | STARK | 43 | 17 |
| STA 51+30.00 | TO STA 51+30.00 | ILLINOIS | IL RTE 91 | |

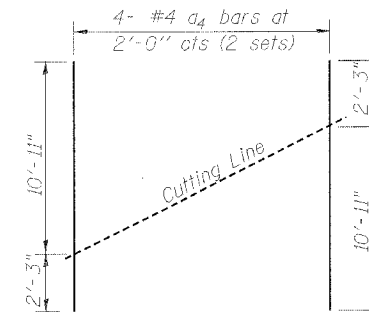
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



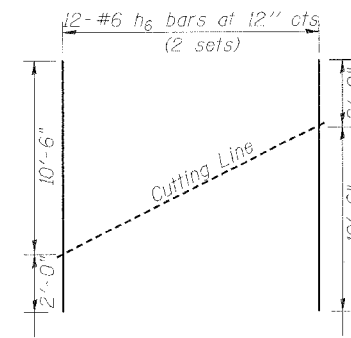
SECTION A-A/B-B



CUTTING DIAGRAM 1
(a2 bars)

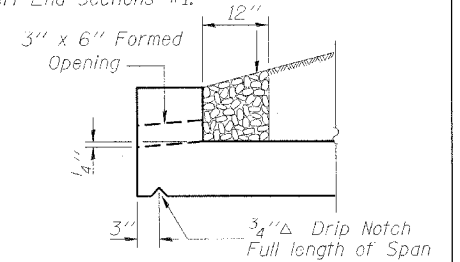


CUTTING DIAGRAM 2
(a4 bars)

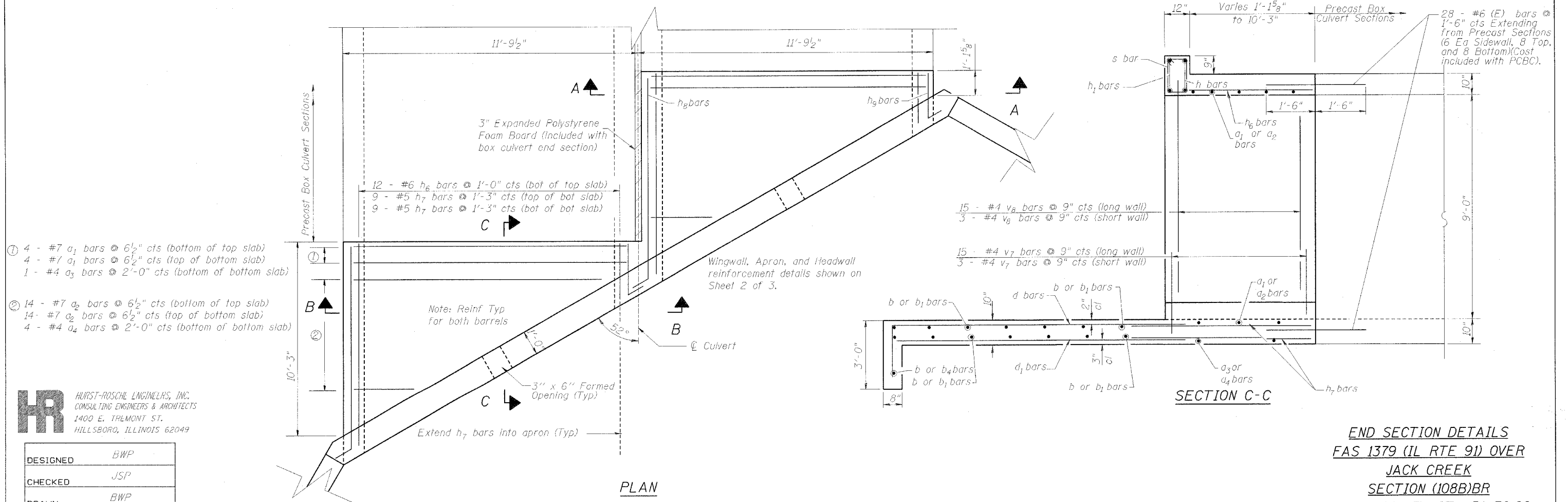


CUTTING DIAGRAM 3
(h6 bars)

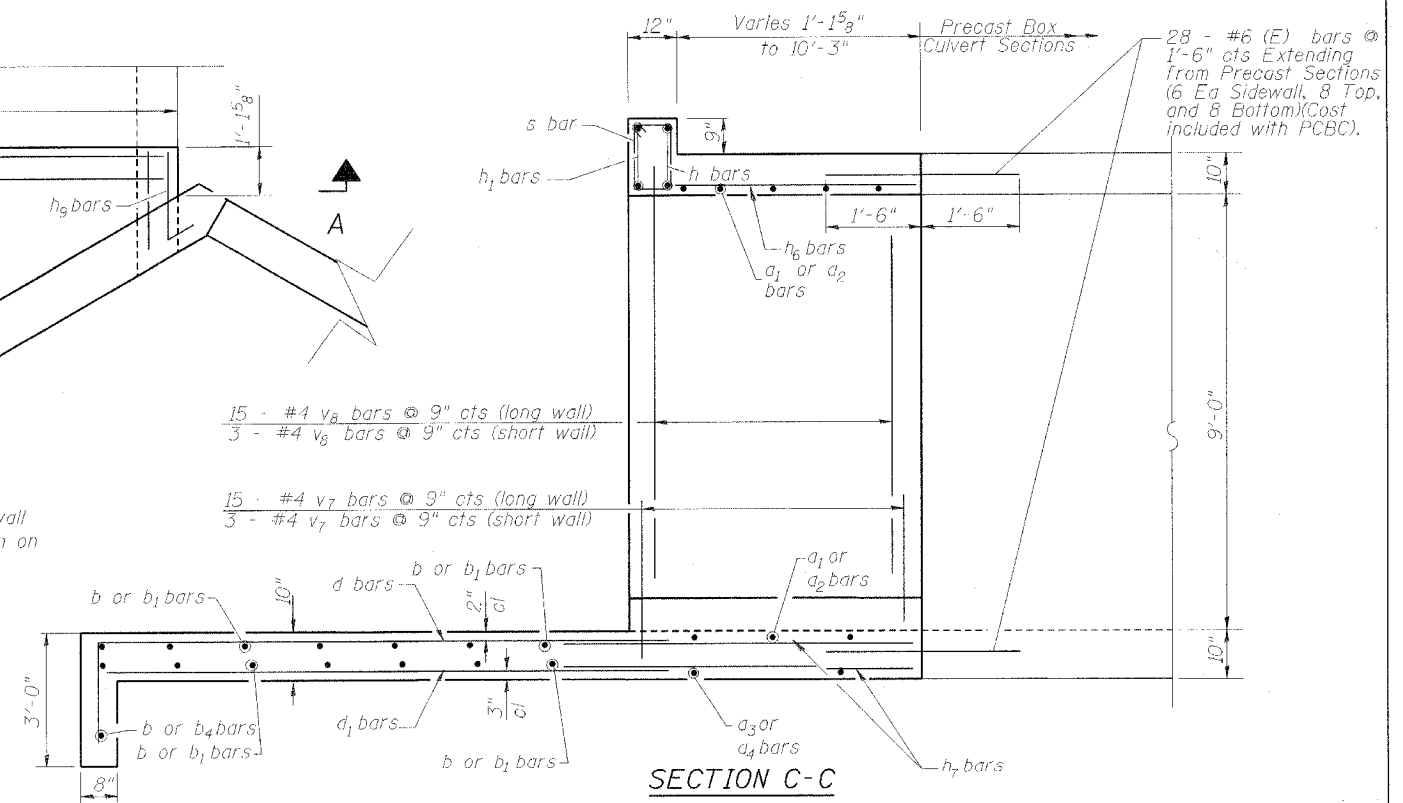
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Box Culvert End Sections #1.



DRAIN DETAIL



PLAN



SECTION C-C

END SECTION DETAILS
FAS 1379 (IL RTE 91) OVER
JACK CREEK
SECTION (108B)BR
STARK COUNTY STA 51+30.00
SN 088-2004

HR HURST-ROSCH ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

| | |
|----------|-----|
| DESIGNED | BWP |
| CHECKED | JSP |
| DRAWN | BWP |
| CHECKED | JSP |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 4
OF 4

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
|--------------|--------------|--------|--------------|----------|
| 1379 | (108-B-1) BR | STARK | 43 | 18 |
| STA 51+30.00 | | TO STA | | |
| ILLINOIS | | | IL RTE 91 | |



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 2

Date 9/20/01

ROUTE FAS 1379 (IL 91) DESCRIPTION IL 91 over Jack Creek Proposed double 10'x9' Box Culv. LOGGED BY DPS
SECTION (108 B) BR LOCATION SW1/4,SW1/4,SE1/4ELMIRATWSP, SEC. 30, TWP. 14 N, RNG. 6E, 4th PM
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. | STATION | BORING NO. | STATION | OFFSET | GROUND SURFACE ELEV. | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) | |
|---------------------------------|----------|------------|---------|------------|----------------------|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|--|
| 088-0015 | 51+27.09 | 1 | 51+63 | 34.00ft Lt | 724.97 | | | | | 718.61 | | | 719.0 | 719.5 | 719.7 | | | | | | | | | 718.61 | | | 719.0 | 719.5 | 719.7 | | | | | |
| 0.0'-2.0' No Sample Taken | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown SILTY LOAM 722.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown SILTY CLAY 720.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown SANDY CLAY LOAM 715.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray CLAY LOAM TILL 712.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray CLAY LOAM TILL (continued) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray MEDIUM SAND 692.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray SILTY LOAM 692.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray FINE SAND 685.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 2 of 2

Date 9/20/01

ROUTE FAS 1379 (IL 91) DESCRIPTION IL 91 over Jack Creek Proposed double 10'x9' Box Culv. LOGGED BY DPS
SECTION (108 B) BR LOCATION SW1/4,SW1/4,SE1/4ELMIRATWSP, SEC. 30, TWP. 14 N, RNG. 6E, 4th PM
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. | STATION | BORING NO. | STATION | OFFSET | GROUND SURFACE ELEV. | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) | |
|-----------------------------------|----------|------------|---------|------------|----------------------|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|--|
| 088-0015 | 51+27.09 | 1 | 51+63 | 34.00ft Lt | 724.97 | | | | | 718.61 | | | 719.0 | 719.5 | 719.7 | | | | | | | | | 718.61 | | | 719.0 | 719.5 | 719.7 | | | | | |
| Gray FINE SAND (continued) 688.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| End of Boring | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways

SOIL BORING LOG

Page 1 of 1

Date 9/10/01

ROUTE FAS 1379 (IL 91) DESCRIPTION IL 91 over Jack Creek Proposed double 10'x9' Box Culv. LOGGED BY DPS
SECTION (108 B) BR LOCATION SE1/4,SE1/4,SW1/4ELMIRATWSP, SEC. 30, TWP. 14 N, RNG. 6E, 4th PM
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE AUTO

| STRUCT. NO. | STATION | BORING NO. | STATION | OFFSET | GROUND SURFACE ELEV. | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After 24 Hrs. | (ft) | (ft) | (tsf) | (%) |
|----------------------------------|----------|------------|---------|------------|----------------------|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|---------------|------|------|-------|-----|
| 088-0015 | 51+27.09 | 2 | 50+88 | 14.00ft Rt | 732.78 | | | | | 718.61 | | | 705.8 | None | 719.1 | | | | | | | | | 718.61 | | | 705.8 | None | 719.1 | | | | |
| 0.0'-2.0' No Sample Taken | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown SILTY CLAY w/Gravel 730.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dark Gray SILTY CLAY 725.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dark Gray SILTY CLAY LOAM 720.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BrownGray SANDY CLAY LOAM 715.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray CLAY LOAM TILL 713.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gray CLAY LOAM TILL (continued) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

| | |
|----------|-----|
| DESIGNED | JLG |
| CHECKED | JSP |
| DRAWN | BAD |
| CHECKED | JSP |

BORING LOGS
FAS 1379 (IL RTE 91) OVER
JACK CREEK
SECTION (108B)BR
STARK COUNTY STA 51+30.00
SN 088-2004

Bench Mark: Sta 58+03, 39' Rt, RR spike in PP, EI 726.70

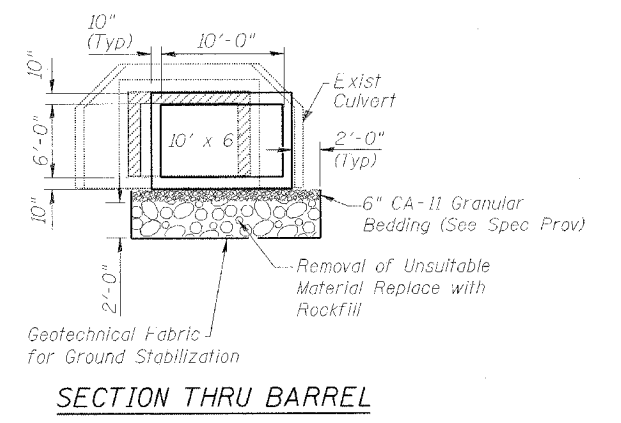
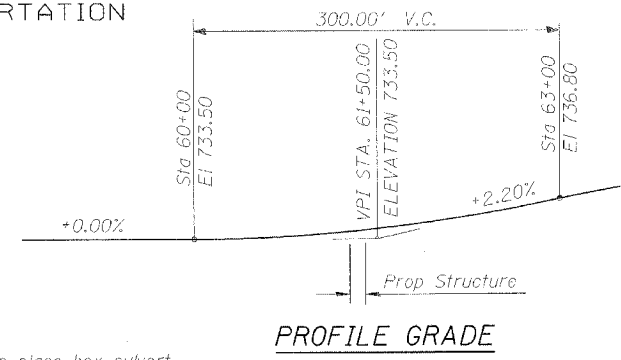
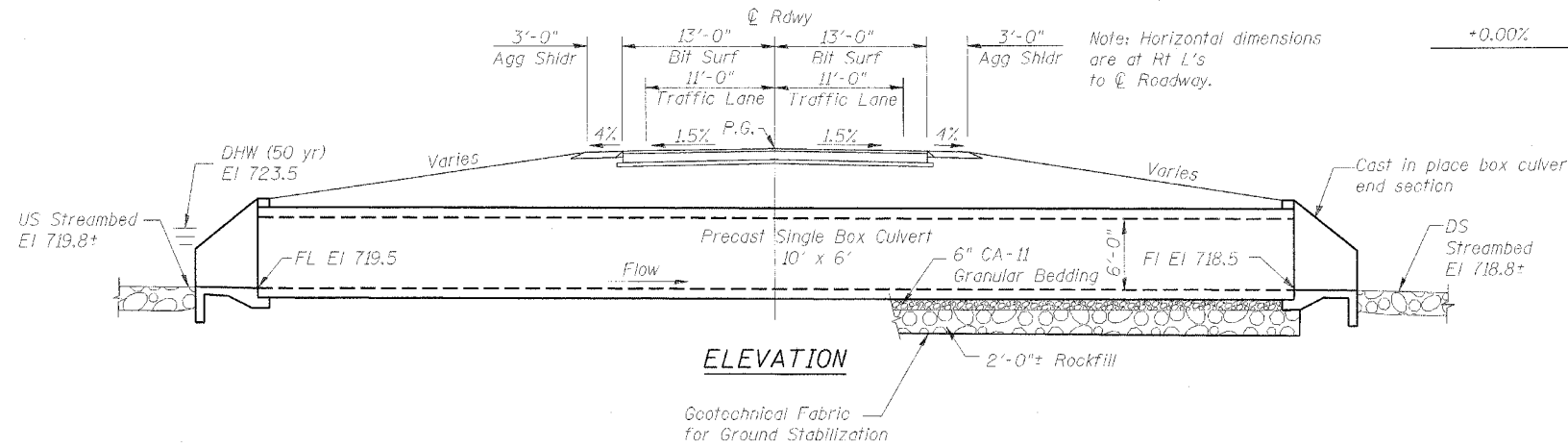
Existing Structure: A 10' x 7' reinforce concrete box culvert with an internal concrete frame which reduces the capacity to that of a 8' x 6' culvert. Two field drainage tiles enter the culvert. One at the entrance and the other near the middle of the culvert along the floor. The contractor shall remove the existing structure as required and replace it with a single 10'x9' precast concrete box culvert.

Salvage: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|---------------|----------------|-----------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108 - B-1) BR | STARK | 43 | 19 |
| STA. 61+35.31 | | | | |
| ILLINOIS | | IL RTE 91 | | |

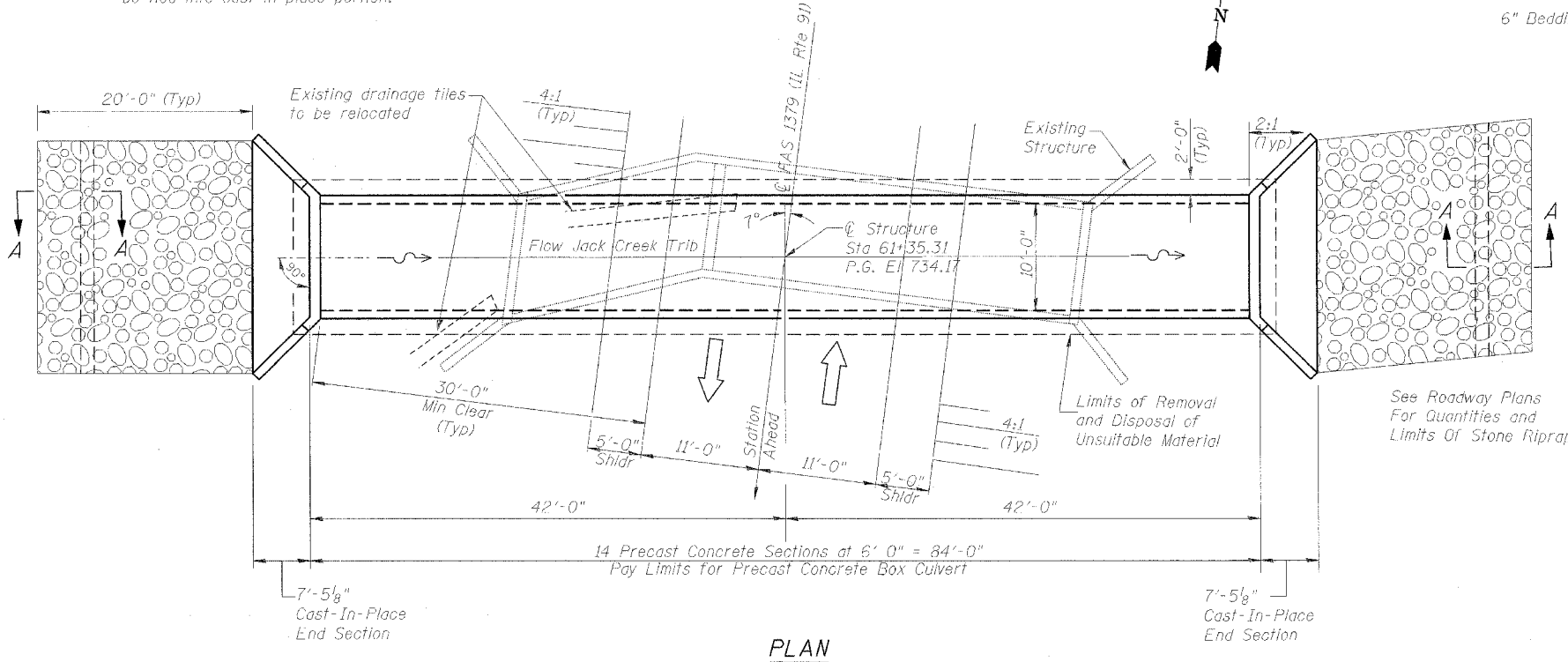
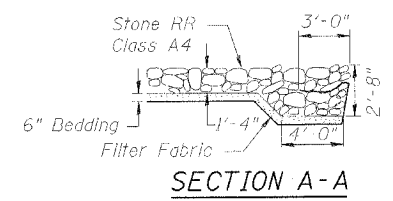
SHEET 1
OF 2



GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53 Grade 60.
2. All exposed edges shall have 3/4" chamfer.
3. For back filling and embankment see Standard Specifications, Art. 502
4. This box culvert has a fill height of 8.5 feet. The precast concrete box culvert shall conform to the requirements of AASHTO M 259.
5. Precast end sections are not allowed.
6. Remove existing structure including wings, abutments, and footings.
7. 15"x15" voids cast in wingwalls for field tile outlet. Voids to be grouted once field tile is installed.

Note: Precast culvert sections at the ends of each barrel are to have exposed reinforcing bars to be tied into cast in place portion.



TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--|-------|-------|
| Removal and Disposal of Unsuitable Material | Cu Yd | 98 |
| Geotechnical Fabric for Ground Stabilization | Sq Yd | 211 |
| Removal of Existing Structures | Each | 1 |
| Box Culvert End Sections, Culvert No. 2 | Each | 2 |
| Precast Concrete Box Culvert 10' x 6' | Foot | 84 |
| Rockfill | Ton | 204 |

* See Special Provisions

HR HURST-ROSCHE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

WATERWAY INFORMATION

Drainage Area = 0.6 Sq mi Low Grade EI 733.0 @ Sta 61+20

| Flood | Freq Yr | Q of s | | Opening sq ft | | Not HWE | | Head - ft | | Headwater EI | |
|----------|---------|--------|------|---------------|-------|---------|------|-----------|-------|--------------|------|
| | | Exist | Prop | Exist | Prop | Exist | Prop | Exist | Prop | Exist | Prop |
| Design | 50 | 320 | 32 | 40 | 723.5 | 1.8 | 1.0 | 725.3 | 724.5 | | |
| Base | 100 | 370 | 34 | 43 | 723.8 | 2.2 | 1.3 | 726.0 | 725.1 | | |
| Max Calc | 500 | 500 | 38 | 47 | 724.2 | 4.1 | 2.1 | 728.3 | 726.3 | | |

DESIGN STRESSES

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

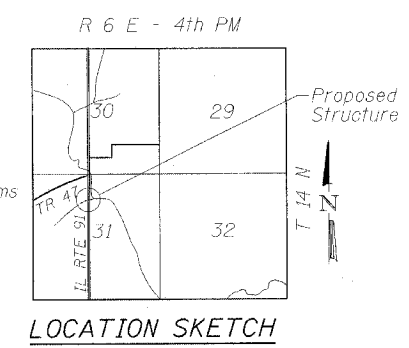
DESIGN SPECIFICATIONS

1996 AASHTO with 1997, 1998, 1999, and 2000 Interims
LOADING HS 20-44

Allow 50 lb/sf for Future Wearing Surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.0

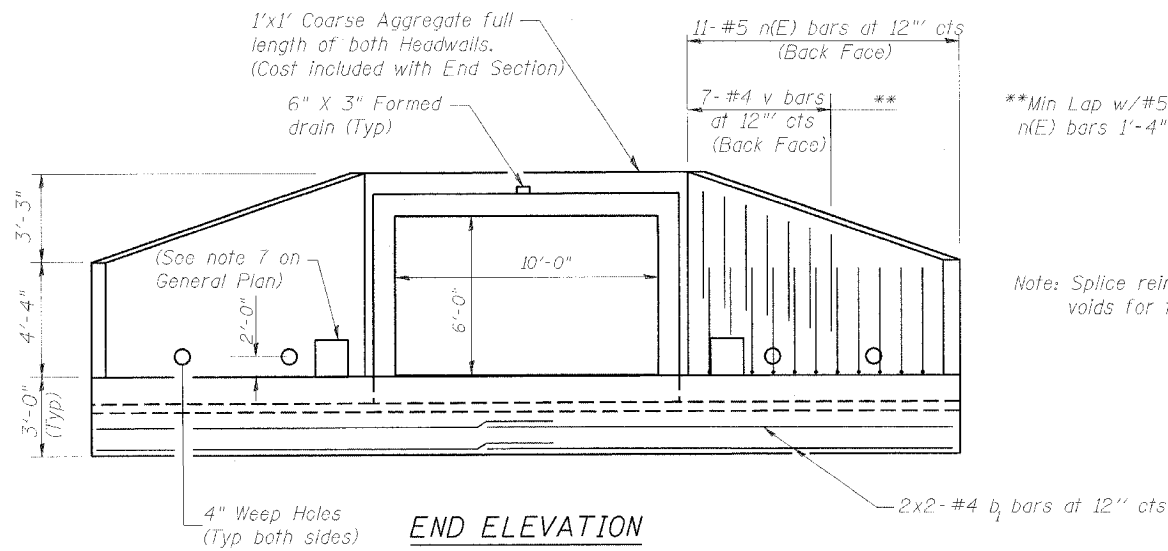


GENERAL PLAN & ELEVATION
FAS 1379 (IL RTE 91) OVER
JACK CREEK TRIBUTARY
SECTION (108)BR
STARK COUNTY STA 61+35.31

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 2
OF 2

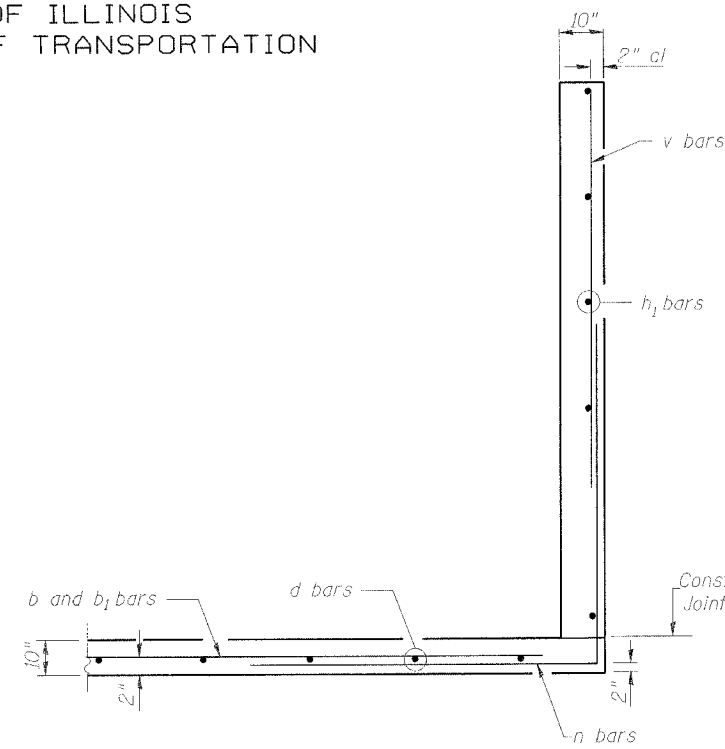
| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
|--------------|--------------|----------|--------------|----------|
| 1379 | (108-B-1) BR | STARK | 43 | 20 |
| STA 61+35.31 | | ILLINOIS | IL RTE 91 | |



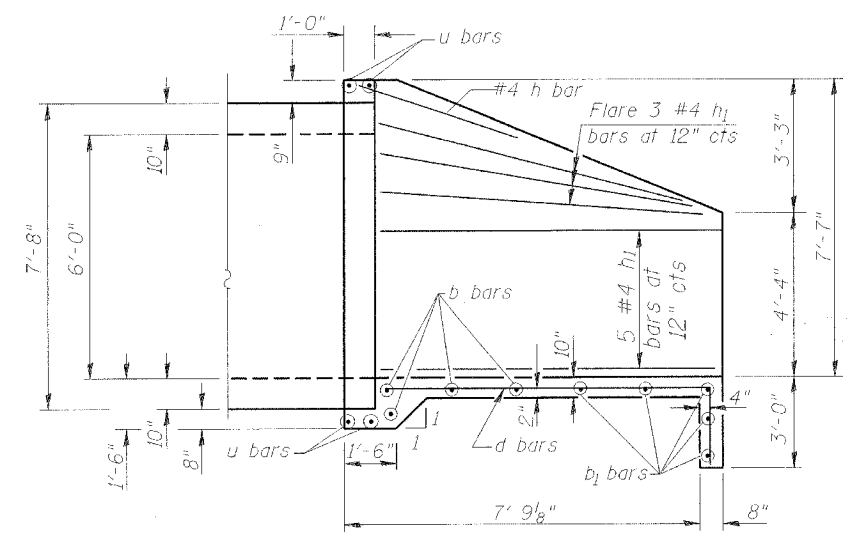
**Min Lap w/#5 n(E) bars 1'-4"

Note: Splice reinforcement to miss voids for field tile outlets.

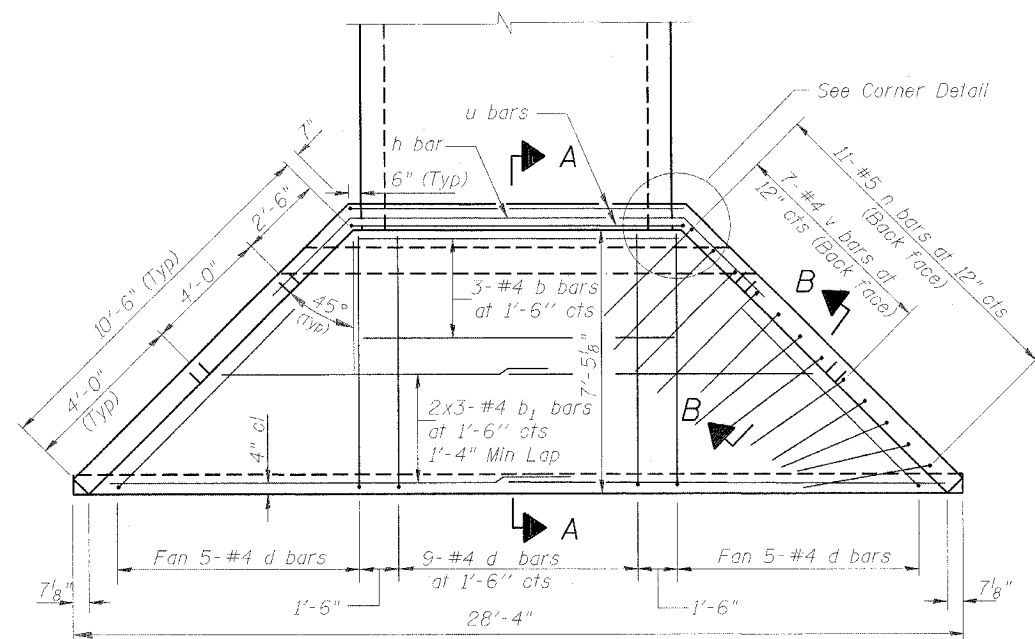
Note: Wingwall reinforcement typical for both walls.



SECTION B-B

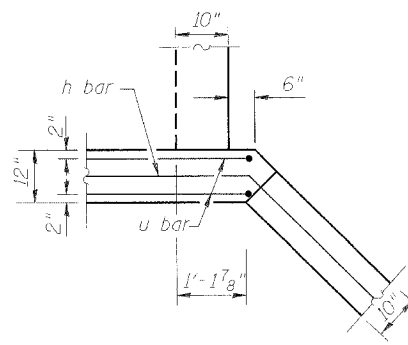


SECTION A-A



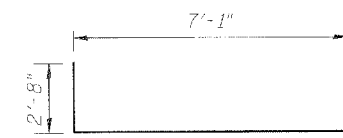
PLAN

Note: Bars indicated thus 2 x 3-#4 etc. indicates 2 lines of bars with 3 lengths per line.

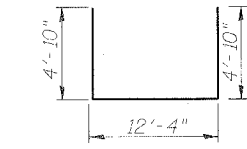


CORNER DETAIL
(Typical both corners)

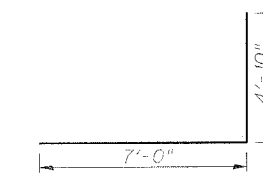
BAR LAP
#4 - 1'-4" min



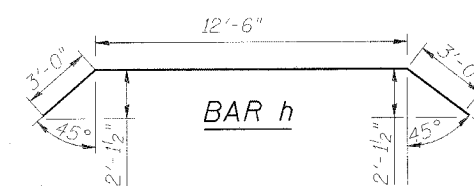
BAR d



BAR u



BAR n



BAR h

* BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|--------------------------------|-----|------|---------|-------|
| b | 6 | #4 | 12'-4" | — |
| b ₁ | 12 | #4 | 14'-9" | — |
| d | 38 | #4 | 9'-9" | ┌ |
| h | 2 | #4 | 18'-6" | ┌ |
| h ₁ | 32 | #4 | 10'-5" | — |
| n(E) | 44 | #5 | 11'-10" | ┌ |
| u | 8 | #4 | 22'-0" | ┌ |
| v | 28 | #4 | 4'-10" | — |
| Concrete | | | Cu Yd | 26.0 |
| Reinforcing Bars | | | Lb | 871 |
| Reinforcing Bars, Epoxy Coated | | | Lb | 543 |

* Bill of Material is for two (2) end sections.
For information only.

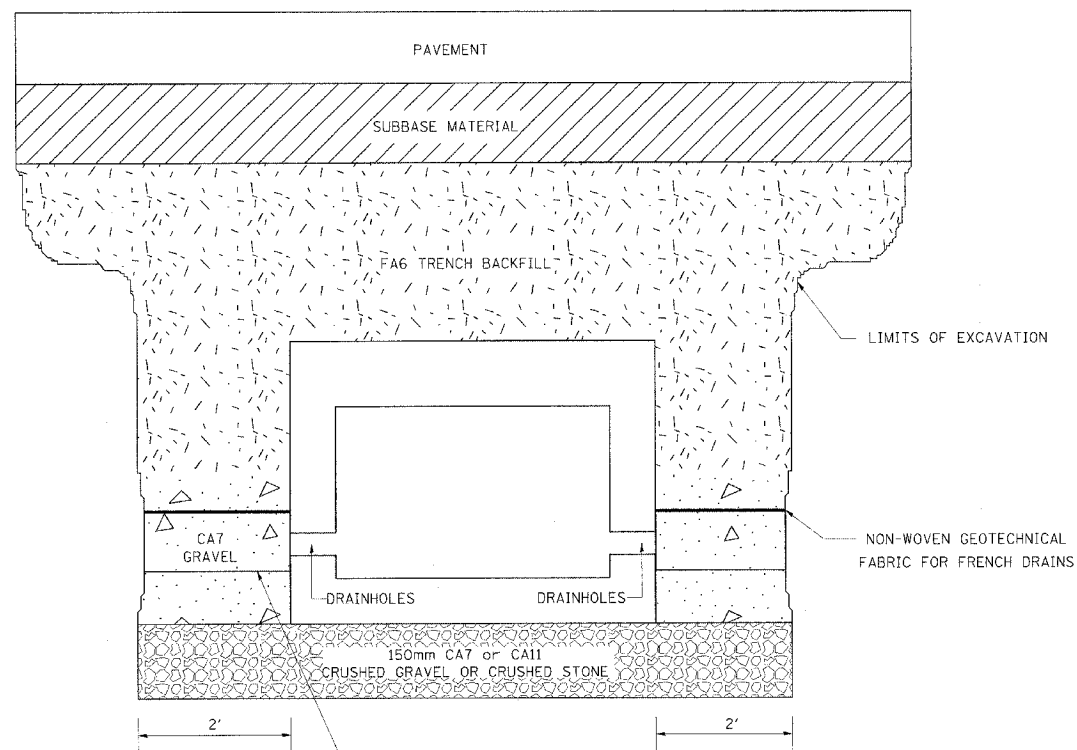
END SECTION DETAILS
FAS 1379 (IL RTE 91) OVER
JACK CREEK TRIBUTARY
SECTION (108B)BR
STARK COUNTY STA 61+35.31

HR HURST-ROSCHKE ENGINEERS, INC.
CONSULTING ENGINEERS & ARCHITECTS
1400 E. TREMONT ST.
HILLSBORO, ILLINOIS 62049

| | |
|----------|-----|
| DESIGNED | MLD |
| CHECKED | JSP |
| DRAWN | MLD |
| CHECKED | JSP |

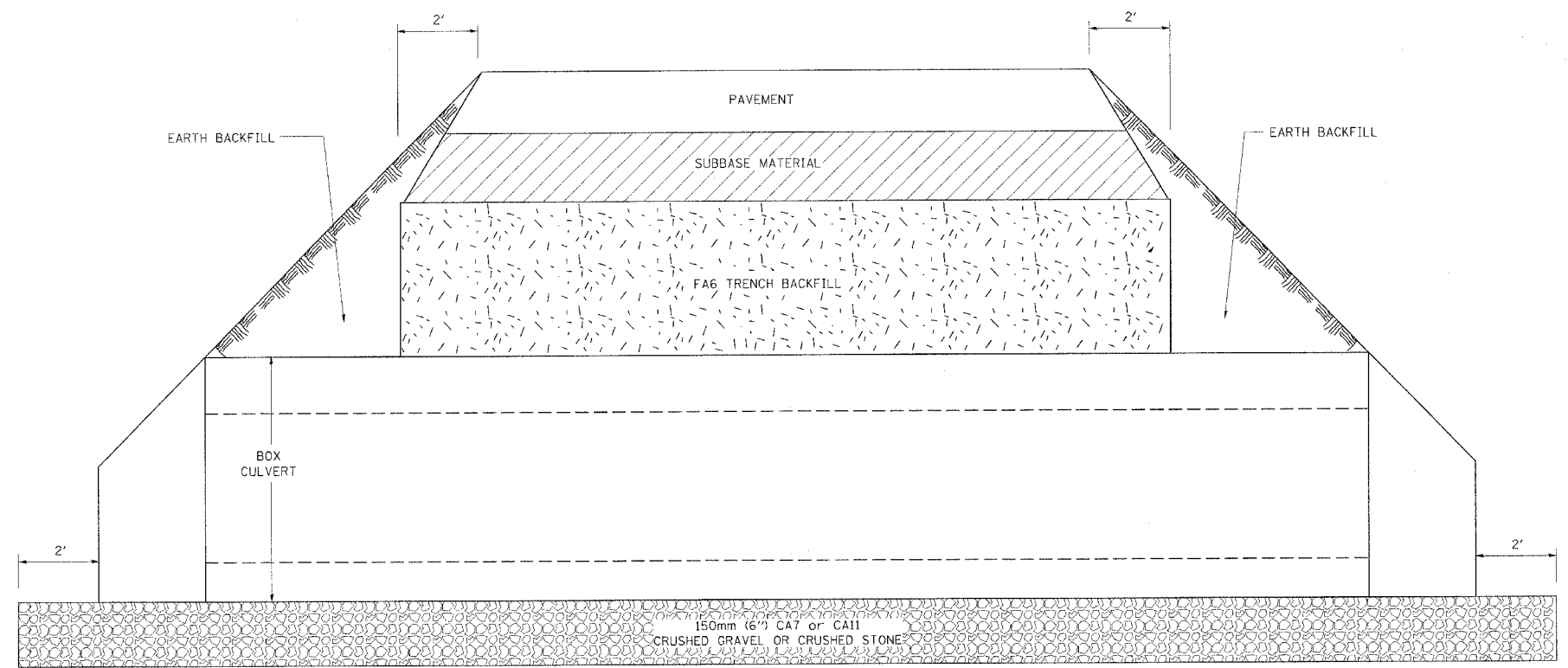
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 21 |
| STA. | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |

ROADWAY PROFILE VIEW



2' x 2' x 2' DEPOSIT OF CA 5, 7, OR 11 IN FABRIC ENVELOPE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS (TYPICAL)

ROADWAY CROSS SECTION VIEW



NOTES:

- EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
- TRENCH BACKFILL SHALL BE COMPACTED BY EITHER METHOD 2 OR METHOD 3 SPECIFIED IN ARTICLE 550.07, OR IN ACCORDANCE WITH METHOD 1 SPECIFIED IN ARTICLE 550.07, EXCEPT THAT THE COMPACTED LIFTS SHALL NOT EXCEED 200mm(8") IN THICKNESS. TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD LAB DENSITY.
- THE NON-WOVEN GEOTECHNICAL FABRIC FOR FRENCH DRAINS SHALL CONFORM TO ARTICLE 1080.05 OF THE STANDARD SPECIFICATIONS.
- ALL COSTS ASSOCIATED WITH EXCAVATION AND BACKFILL PER THIS DETAIL SHALL BE INCLUDED IN THE UNIT PRICE PER METER (FOOT) FOR BOX CULVERT, OF THE TYPE AND SIZE SPECIFIED.

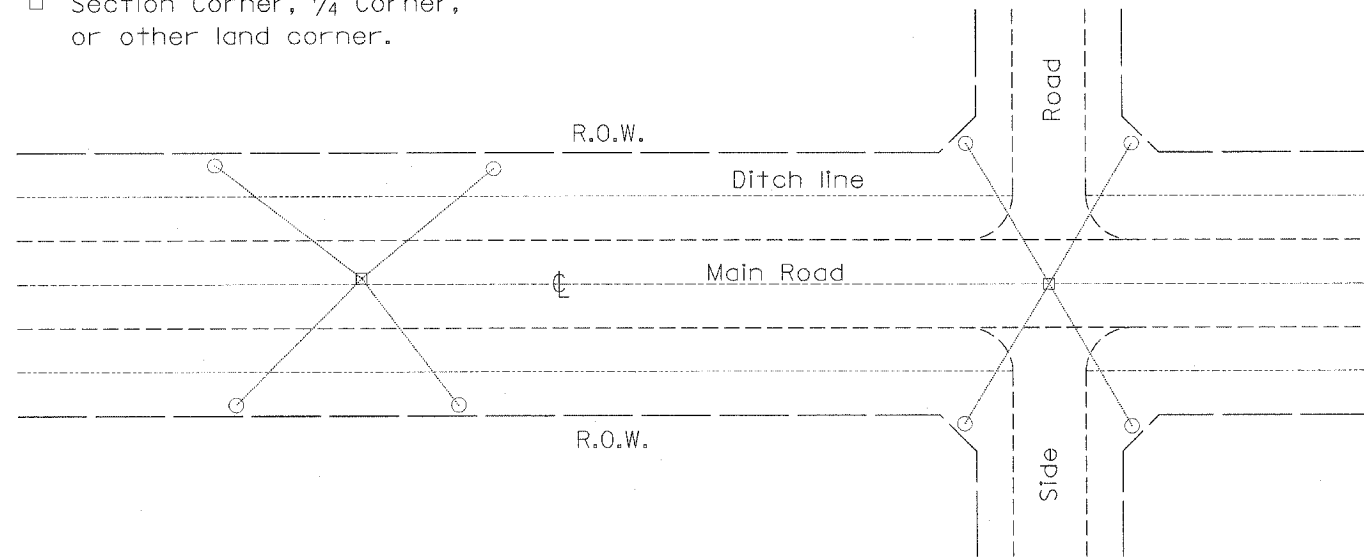
| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
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| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS
 NOT TO SCALE

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|----------|------------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 22 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

PERMANENT SURVEY TIES

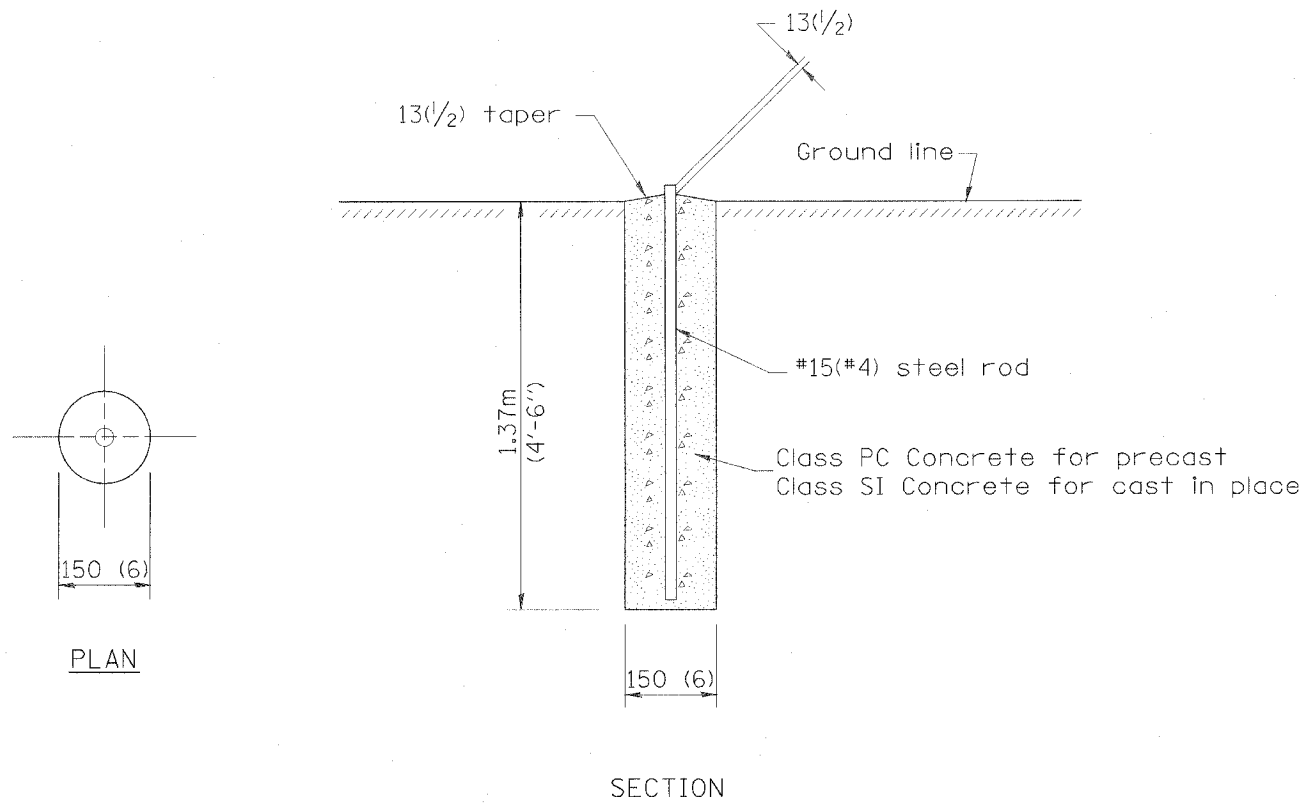
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



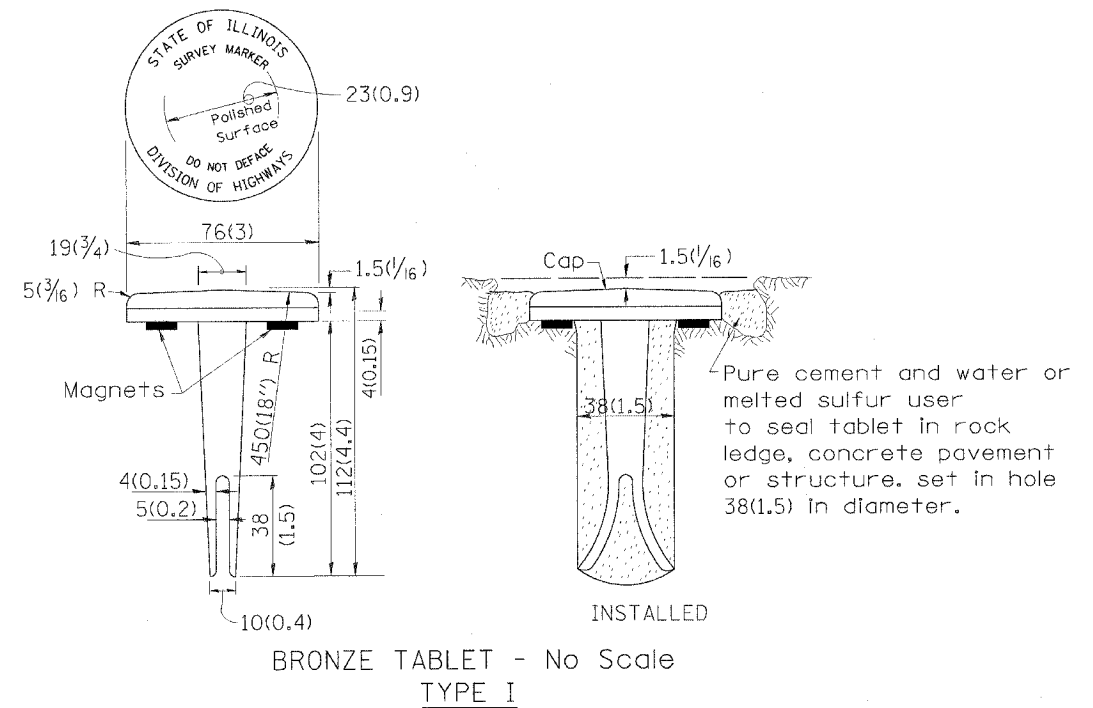
TYPICAL APPLICATION

GENERAL NOTES

- The marker shall be cast in place of Class SI Concrete.
- Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
- The tie distances to the section corner shall be measured and recorded by the surveyor setting the Permanent Survey Marker. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.



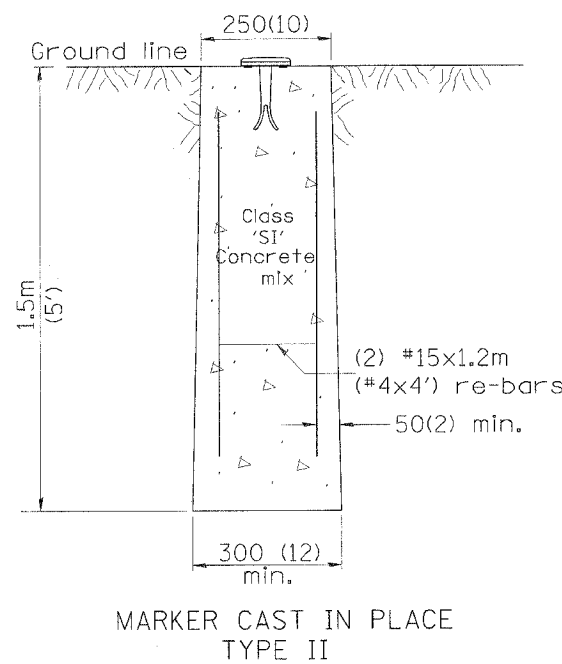
PERMANENT SURVEY MARKERS



GENERAL NOTES

- All type II markers shall be cast in place, and precast markers will not be allowed.
- Two permanent magnets, each having a diameter of 19 (3/4) and a thickness of 6 (1/4), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
- The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.I.'s (if possible), P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 300m(1000').
- The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
- The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

All dimensions are in millimeters (inches) unless otherwise noted.



ILLINOIS DEPARTMENT OF TRANSPORTATION

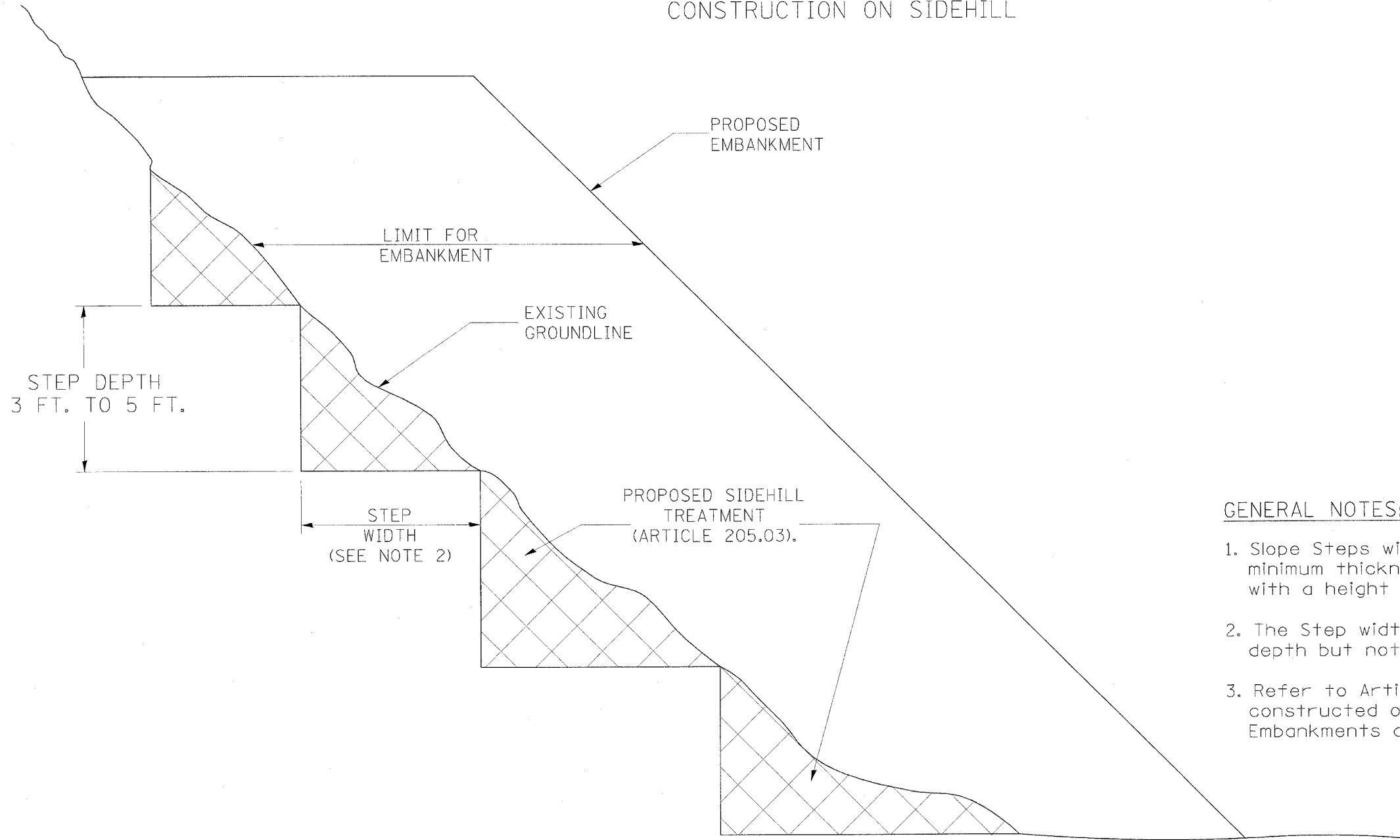
PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I - TY.II

DETAIL

| | | | | |
|--------------------|--------------|--------------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 42 | 23 |
| STA. | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 300(12) minimum thickness "silver fills" and on a fills with a height of 3.0m(10').
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

All dimensions are in millimeters (inches) unless otherwise noted.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

| DATE | REVISIONS | BY |
|--------|--|------|
| 1-1-97 | RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE BOX, REVISED GENERAL NOTES. | T.P. |
| | | |
| | | |
| | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

SLOPE STEPS DETAIL

CADD STD. NO. 205001-04
SCALE: NOT DRAWN TO SCALE
DATE **DATE**

DRAWN BY CADD
CHECKED BY

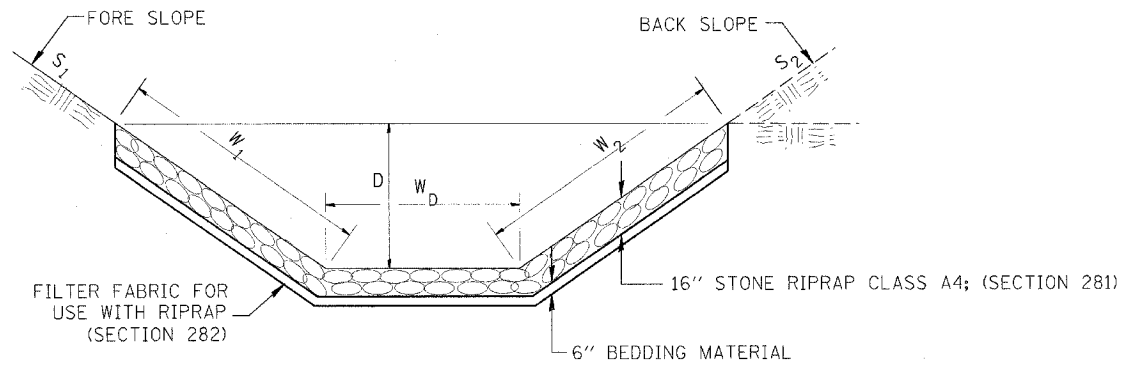
205001-D4

DESIGNER NOTE:

DATE

| | | | | |
|--------------------|--------------|--------------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 42 | 24 |
| STA. | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |

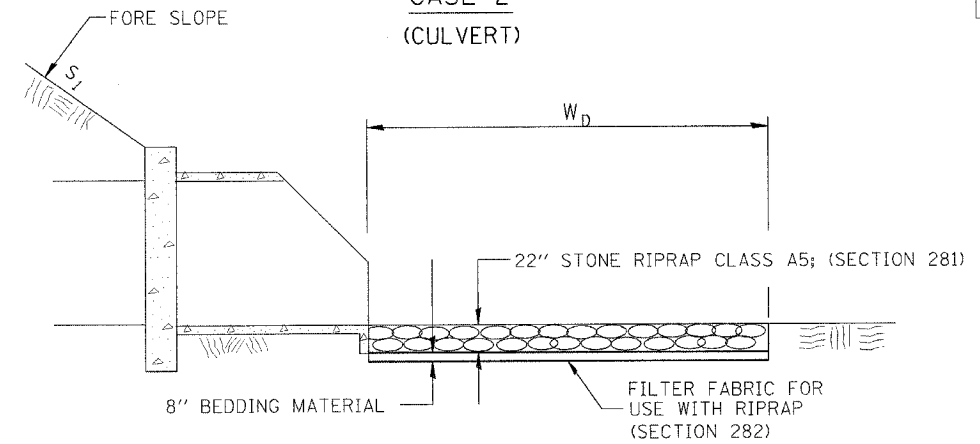
**CASE 1
(DITCH)**



| STONE RIPRAP CLASS A4 | | | | |
|-----------------------|-----------|--------|--------|--------|
| LOCATION | WIDTH (1) | LENGTH | RIPRAP | FABRIC |
| STA TO STA | lin ft | lin ft | tons | sq yds |
| RT 51+12 TO 52+31 | 11.6 | 121 | 104 | 156 |
| LT 61+28 TO 62+00 | 13.8 | 67 | 69 | 103 |
| TOTAL | | | 173 | 259 |

(1) WIDTH = $W_1 + W_2 + W_D$

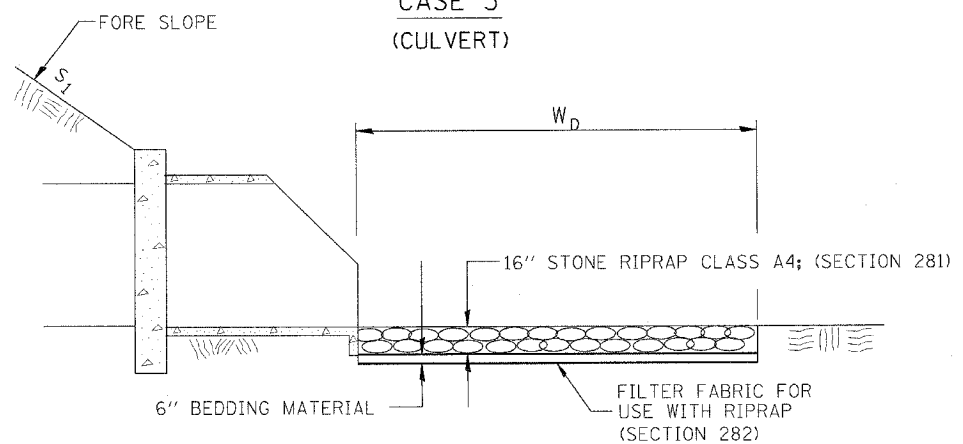
**CASE 2
(CULVERT)**



| STONE RIPRAP CLASS A5 | | | | |
|-----------------------|-----------|--------|--------|--------|
| LOCATION | WIDTH (1) | LENGTH | RIPRAP | FABRIC |
| STA TO STA | lin ft | lin ft | tons | sq yds |
| LT 51+44 TO 52+45 | 25 | 79 | 202 | 220 |
| TOTAL | | | 202 | 220 |

(1) WIDTH = W_D

**CASE 3
(CULVERT)**



| STONE RIPRAP CLASS A4 | | | | |
|-----------------------|-----------|--------|--------|--------|
| LOCATION | WIDTH (1) | LENGTH | RIPRAP | FABRIC |
| STA TO STA | lin ft | lin ft | tons | sq yds |
| RT 50+47 TO 51+18 | 10 | 67 | 49 | 74 |
| RT 61+16 TO 61+65 | 18.4 | 46 | 63 | 94 |
| LT 61+06 TO 61+40 | 21.5 | 21 | 33 | 50 |
| TOTAL | | | 119 | 180 |

(1) WIDTH = W_D

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAIL SHEET

RIPRAP DITCH FOR EROSION PROTECTION

CADD DETAIL 281001-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY CADD
CHECKED BY

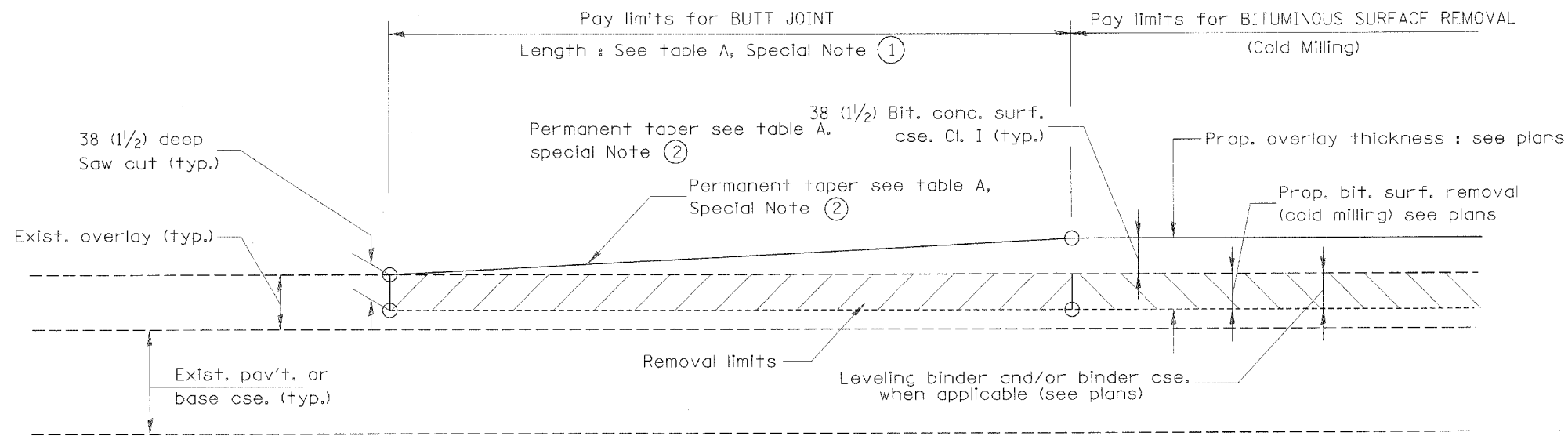
| DATE | REVISIONS | BY |
|---------|------------------------------------|------|
| 1-1-97 | RENUM. A-12.02, NEW REVISION BOX | T.P. |
| 12-1-97 | CORRECT FILTER FABRIC LEADER ARROW | J.A. |
| | | |
| | | |
| | | |
| | | |

DATE **DATE**

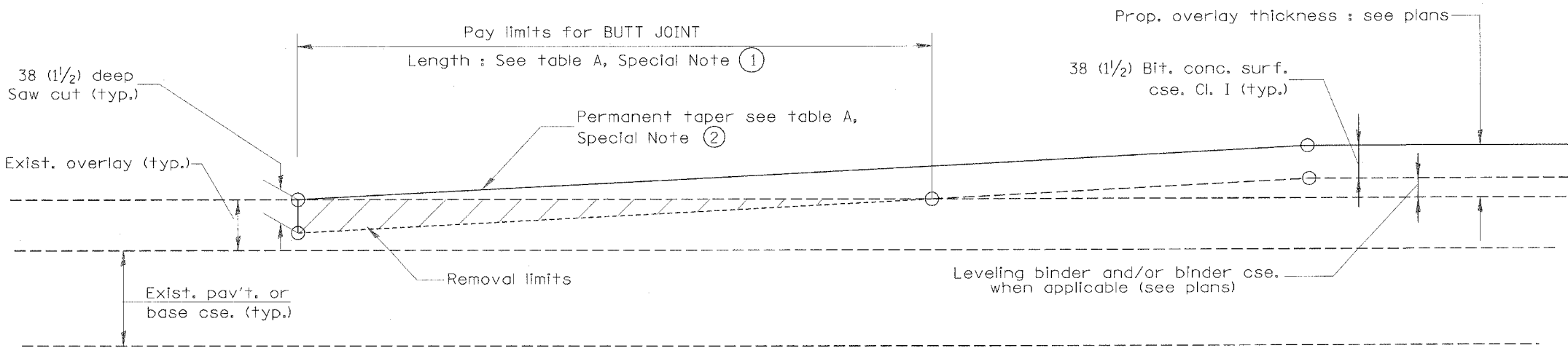
Designer NOTES:
1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
2. (*) Designer to specify pay item including material, quality, and gradation.
3. (**) Designer to specify thickness of bedding material.
4. Include District Special Provision if needed.

\$\$\$DATE\$\$\$

| | | | | |
|-------------|--------------|--------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 25 |
| STA. | TO STA. | | | |
| | ILLINOIS | | IL RTE 91 | |



CASE 1 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)



CASE 2 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)

TABLE A
(LENGTHS AND TAPER RATES)

| SPECIAL NOTE NUMBER | ELEMENT | MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS | ALL OTHERS |
|---------------------|---------------------------|---|------------|
| ① | LENGTH OF BUTT JOINT | 18.0 m(60') | 9.0 m(30') |
| ② | PERMANENT TAPER RATE | 1:480 | 1:240 |
| ③ | TEMPORARY RAMP TAPER RATE | 1:80 | 1:40 |
| ④ | TEMPORARY RAMP LENGTH | 3.0 m(10') | 1.5 m(5') |

GENERAL NOTES

1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.

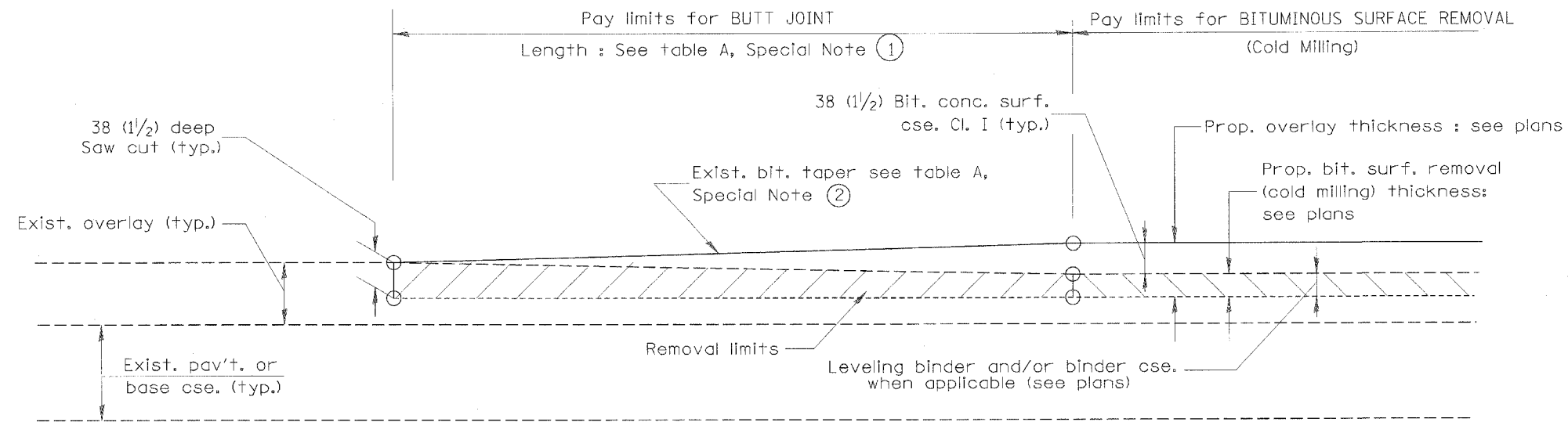
All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

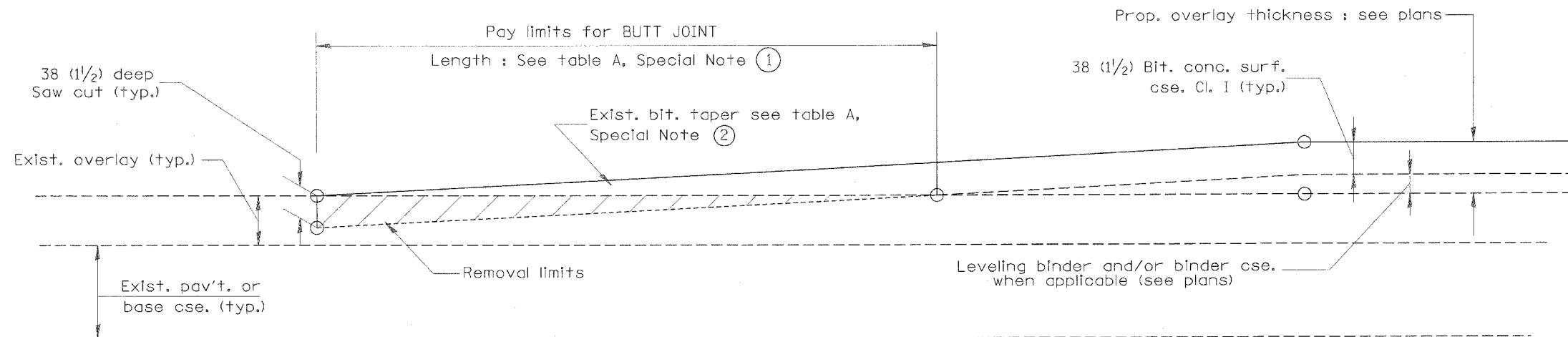
| DATE | REVISIONS | BY |
|--------|----------------------------------|------|
| 1-1-97 | RENUM. C-23.01, NEW REVISION BOX | T.P. |
| 4-1-97 | CORRECTION TO DEPTH | J.A. |
| | | |
| | | |
| | | |

BUTT JOINTS
CADD STD NO. 406101-D4 SHEET 1 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY

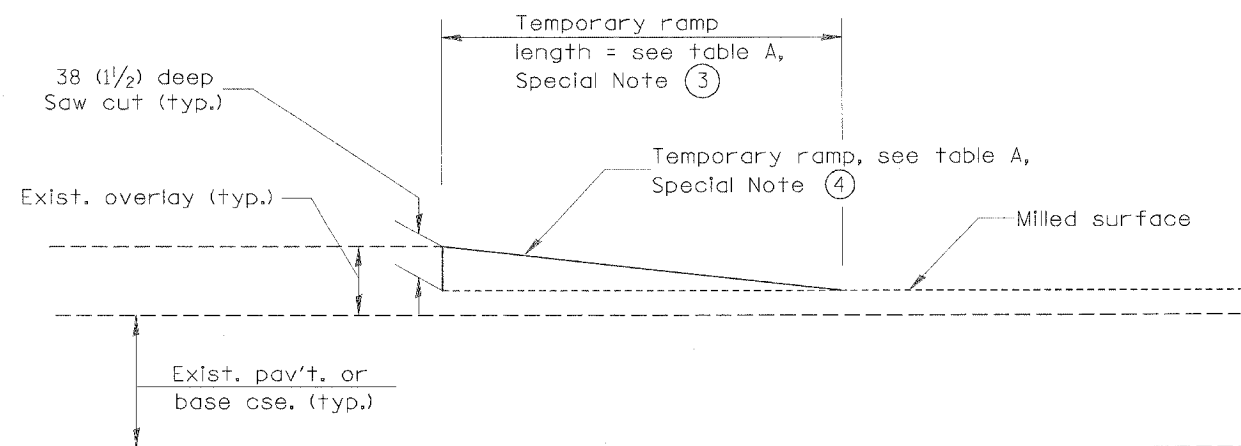
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 26 |
| STA. | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |



**CASE 3 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER**



DETAIL TEMPORARY RAMP

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

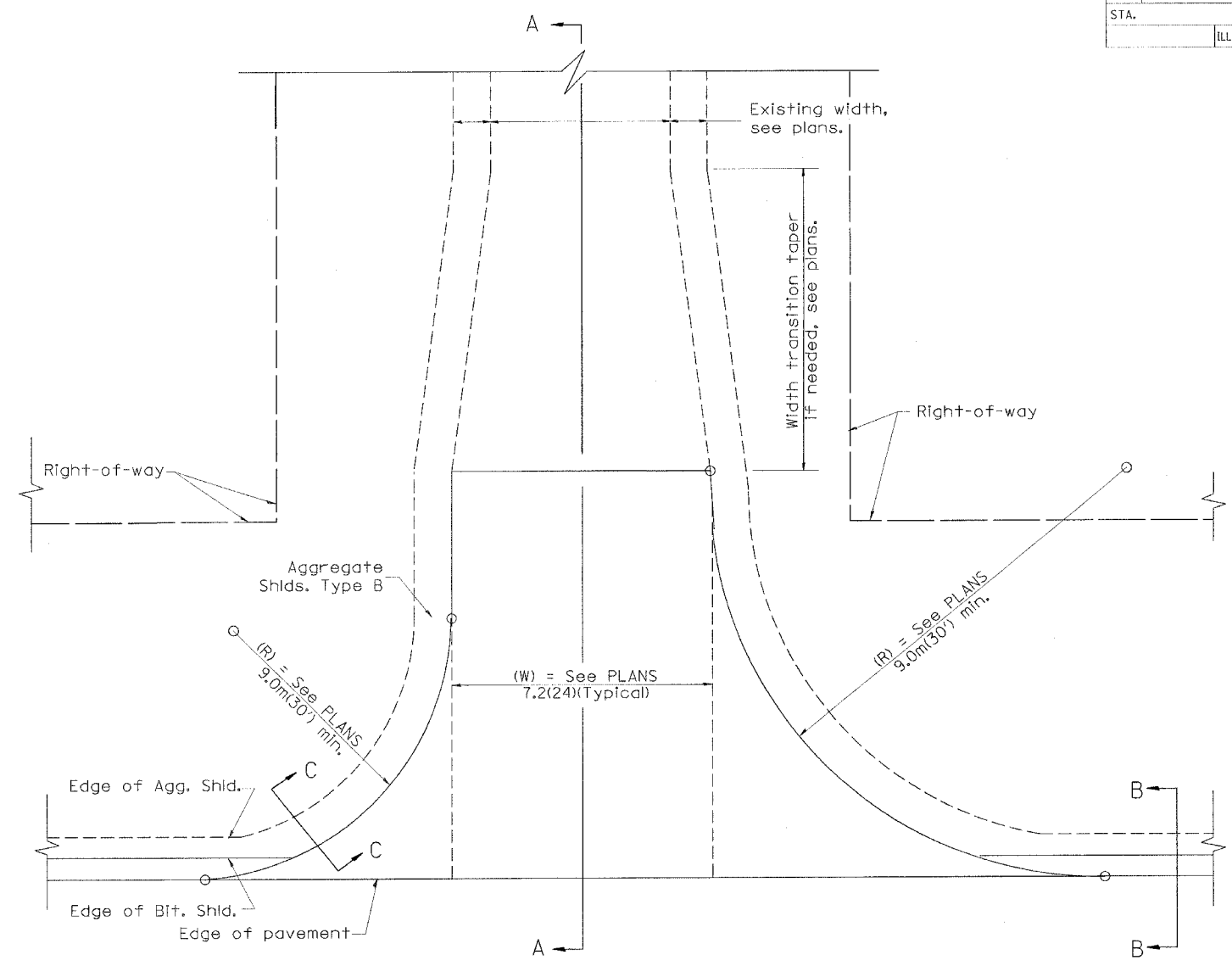
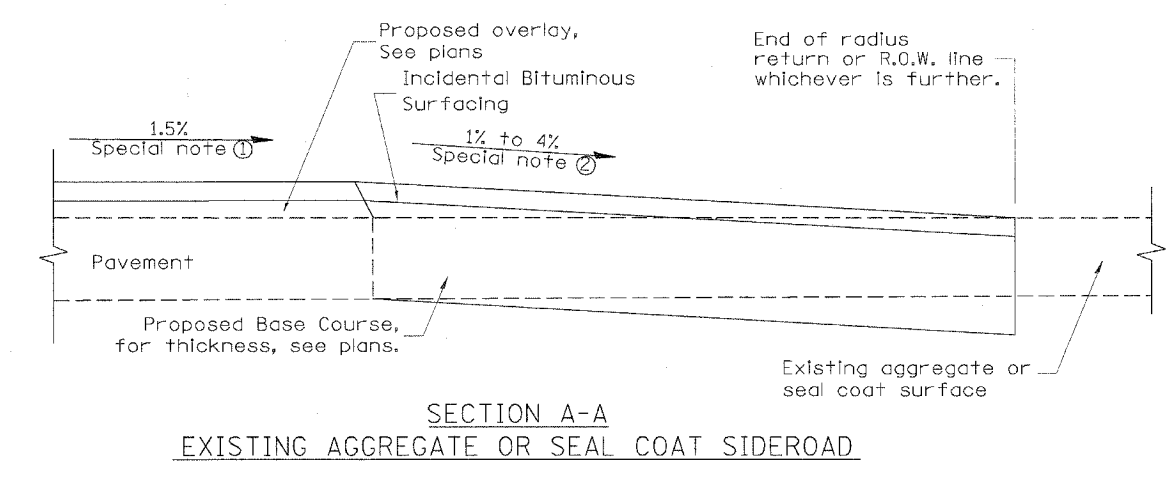
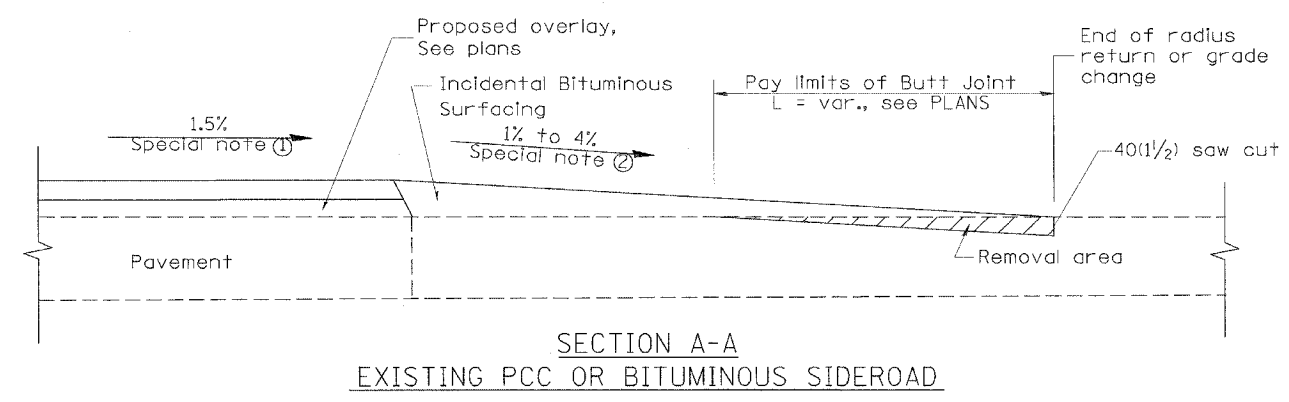
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CADD STD NO. 406101-D4 SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY

406101-D4 (2)

\$\$\$DATE\$\$\$

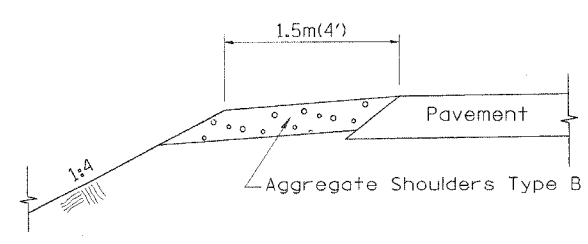
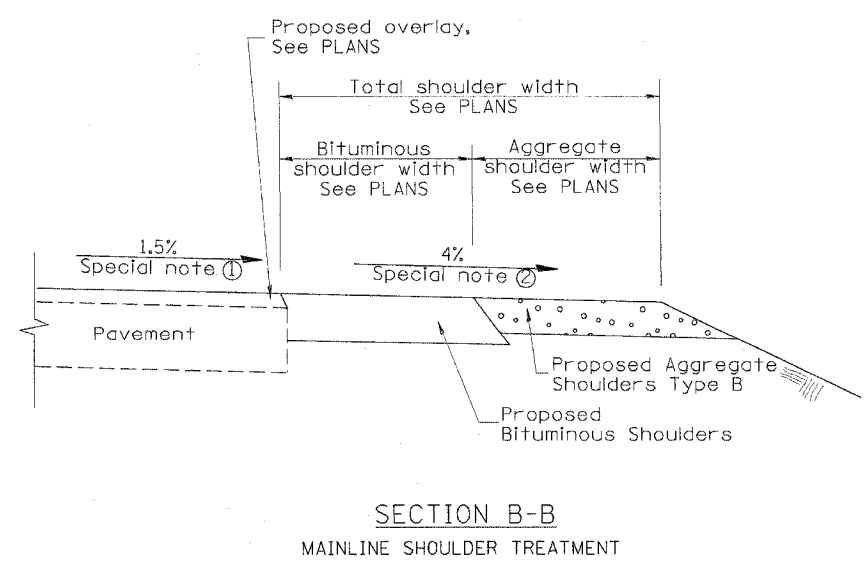
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|--------------------|--------------|--------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 27 |
| STA. | TO STA. | | | |
| | ILLINOIS | | IL RTE 91 | |



PLAN

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on super-elevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 15.0m(50') to 30.0m(100'), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline super-elevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.



SECTION C-C
SIDEROAD SHOULDER TREATMENT

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

| DATE | REVISIONS | BY |
|--------|-----------------------------------|------|
| 1-1-97 | RENUM. C-105.02, NEW REVISION BOX | T.P. |
| 7-1-97 | REVISE DESIGNER NOTES | J.A. |
| | | |
| | | |
| | | |
| | | |

RURAL SIDEROADS FOR
"3R" PROJECTS

CADD STD NO. 406401-D4

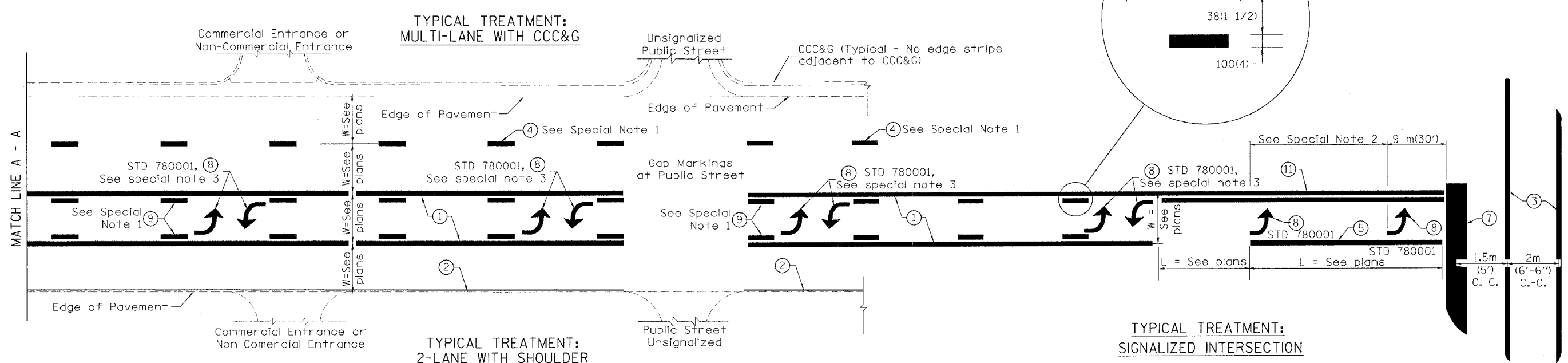
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE **DATE** CHECKED BY: T. PICKERING

DATE

DCN-ONLY

406401-D4

| | | | | |
|--------------------|--------------|--------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 28 |
| STA. | TO STA. | | | |
| | ILLINOIS | | | IL RTE 91 |



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 100(4) Solid (Yellow)
- ② 100(4) Solid (White)
- ③ 2-150(6) Crosswalk @ 2m (6'-6")min C.-C. (White)
2-200(8) Crosswalk @ 2m (6'-6")min C.-C. (White) (When traffic signals are present.)
- ④ 150(6) Skip-Dash (White) (See Special Note 1)
- ⑤ 200(8) Solid (White)
- ⑥ 300(12) Diagonal (White) (Item 6 is shown on Std. 780001)
- ⑦ 600(24) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 100(4) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 300(12) Diagonal (Yellow) (See Table A) 280(11) C.-C. See Table A
- ⑪ 100(4) Double Solid (Yellow)

SPECIAL NOTES

- Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
- The following shall apply to arrows located in one-way left turn lanes:
 - A minimum of two (2) arrows is required.
 - The maximum spacing between arrows is 24 m (80').
 - Arrows shall be evenly spaced if three (3) or more are required.
- The following shall apply to arrow pairs located in two-way left turn lanes:
 - A minimum of two (2) arrow pairs is required.
 - The maximum spacing between arrow pairs is 61 m (200').
 - Arrow pairs shall be evenly spaced if three (3) or more are required.
 - The spacing between BI Directional Left Turn Arrows is 10 m (33').

GENERAL NOTES

- Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
- See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

All dimensions are in millimeters (inches) unless otherwise noted.

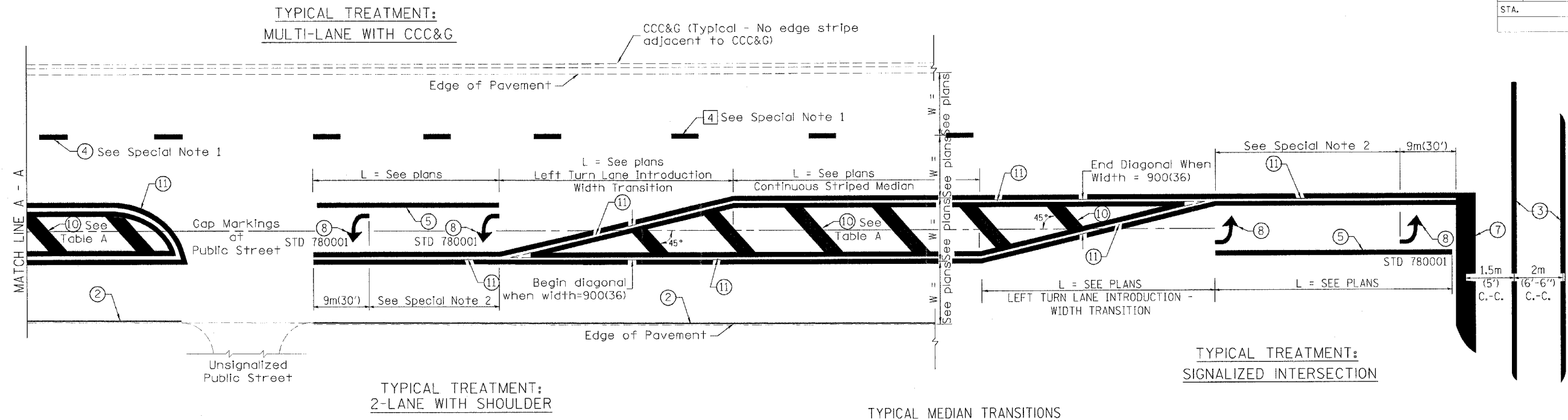
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| ILLINOIS DEPARTMENT OF TRANSPORTATION | | |
| DISTRICT CADD STANDARD | | |
| TYPICAL PAVEMENT MARKINGS | | |
| CADD STANDARD 780001-D4 | | SHEET 1 OF 2 |
| SCALE: NOT DRAWN TO SCALE | | DRAWN BY CADD |
| | | CHECKED BY |

| DATE | REVISIONS | BY |
|--------|----------------------------------|------|
| 1-1-97 | RENUM. F-8.03, NEW REVISION BOX | T.P. |
| 2-7-97 | ADD BI DIRECTIONAL DIMENSION | J.A. |
| 10-97 | CORRECT BI DIRECTIONAL DIMENSION | J.A. |
| 8-02 | ADD CROSSWALK DMNS. WITH T.S. | M.A. |

\$\$\$DATE\$\$\$

DGN-ONLY

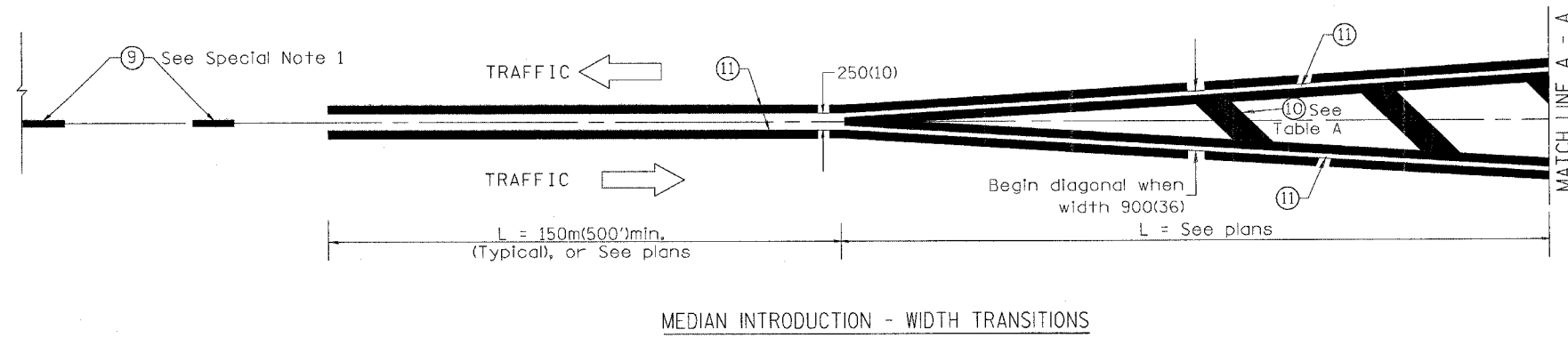
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| CONTRACT NO. 68430 | | | | |
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 29 |
| STA. | | TO STA. | | |
| | | ILLINOIS IL RTE 91 | | |



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

| SPEED LIMIT RANGE | INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions) | |
|----------------------------|---|----------|
| | CONTINUOUS | |
| Less Than 50 km/h (30 mph) | 15m (50') | 5m (15') |
| 50 - 70 km/h (30 - 45 mph) | 23m (75') | 6m (20') |
| Over 70 km/h (45 mph) | 46m (150') | 9m (30') |



All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD
TYPICAL PAVEMENT MARKINGS
CADD STANDARD 780001-D4 SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD CHECKED BY

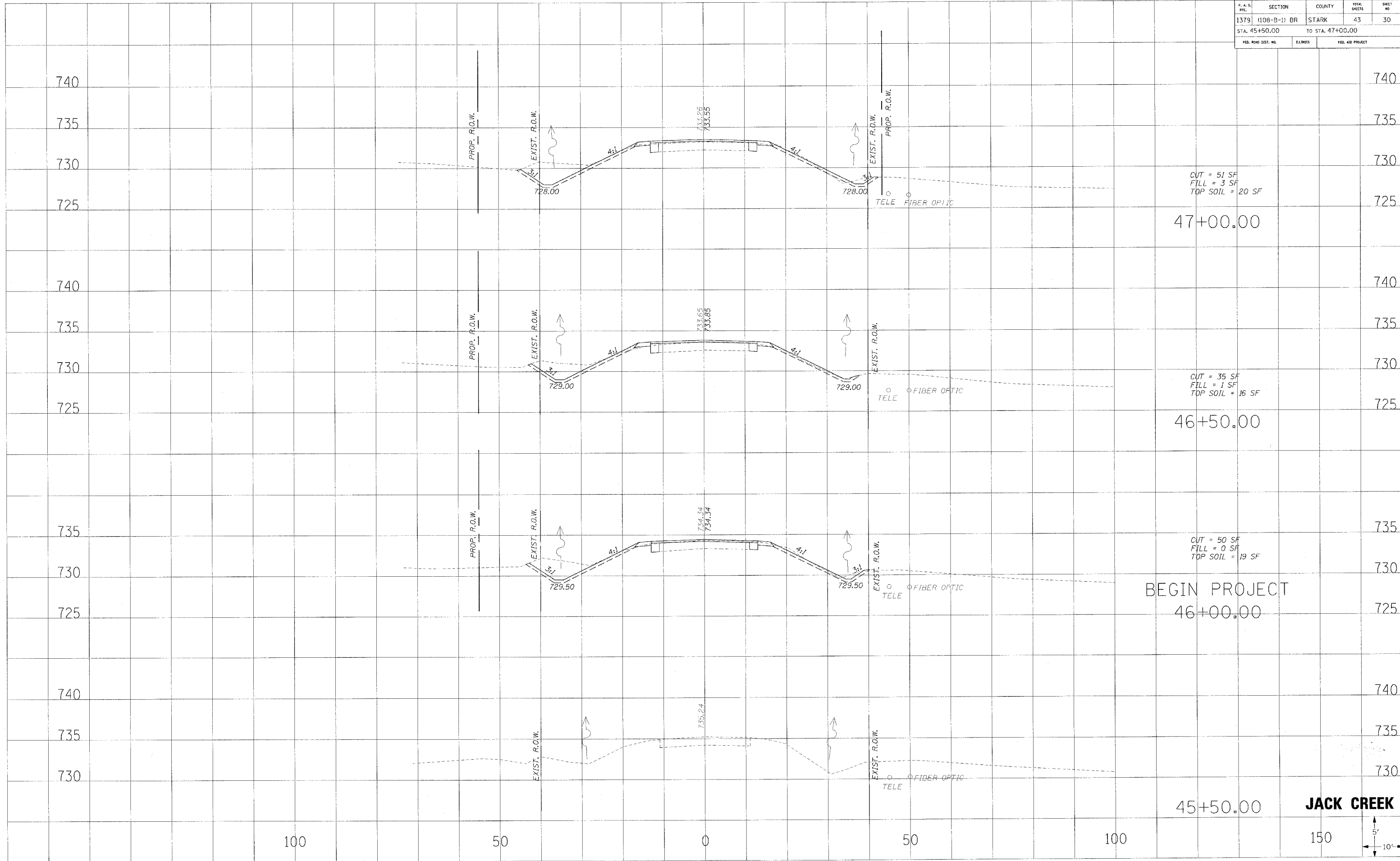
DATE

•DGN-ONLY•

| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 30 |
| STA. 45+50.00 | | TO STA. 47+00.00 | | |
| FED. ROAD DIST. NO. | ELLIPSIS | FED. AID PROJECT | | |

| BY | DATE |
|-------------|------|
| FINN SURVEY | |
| NOTE BOOK | |
| NO. | |

| BY | DATE |
|-----------------|------|
| ORIGINAL SURVEY | |
| NOTE BOOK | |
| NO. | |



CUT = 51 SF
 FILL = 3 SF
 TOP SOIL = 20 SF

CUT = 35 SF
 FILL = 1 SF
 TOP SOIL = 16 SF

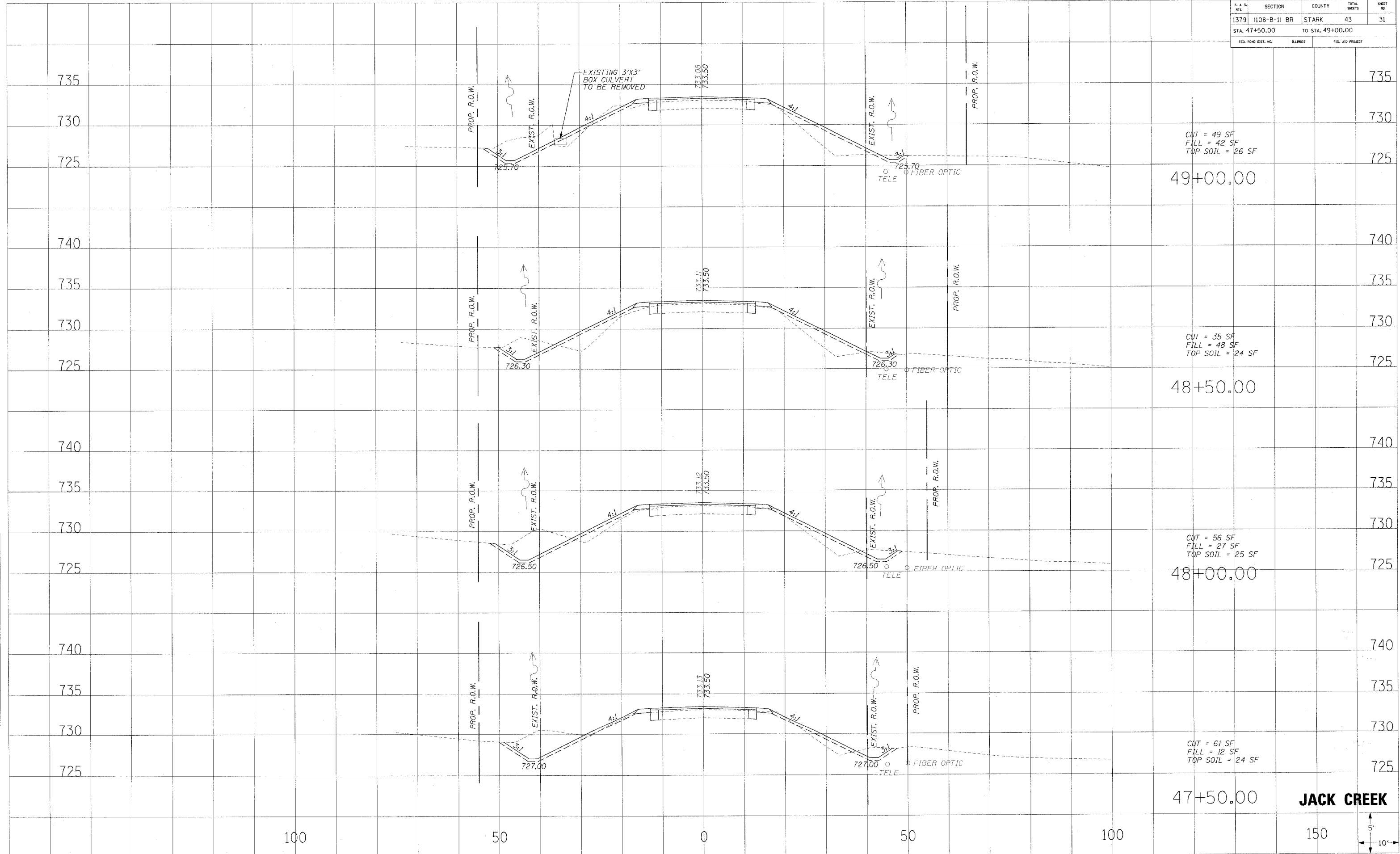
CUT = 50 SF
 FILL = 0 SF
 TOP SOIL = 19 SF

BEGIN PROJECT
 46+00.00

JACK CREEK



| | | | | |
|---------------------|--------------|------------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 31 |
| STA. 47+50.00 | | TO STA. 49+00.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |



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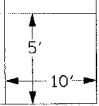
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0

50

100

150



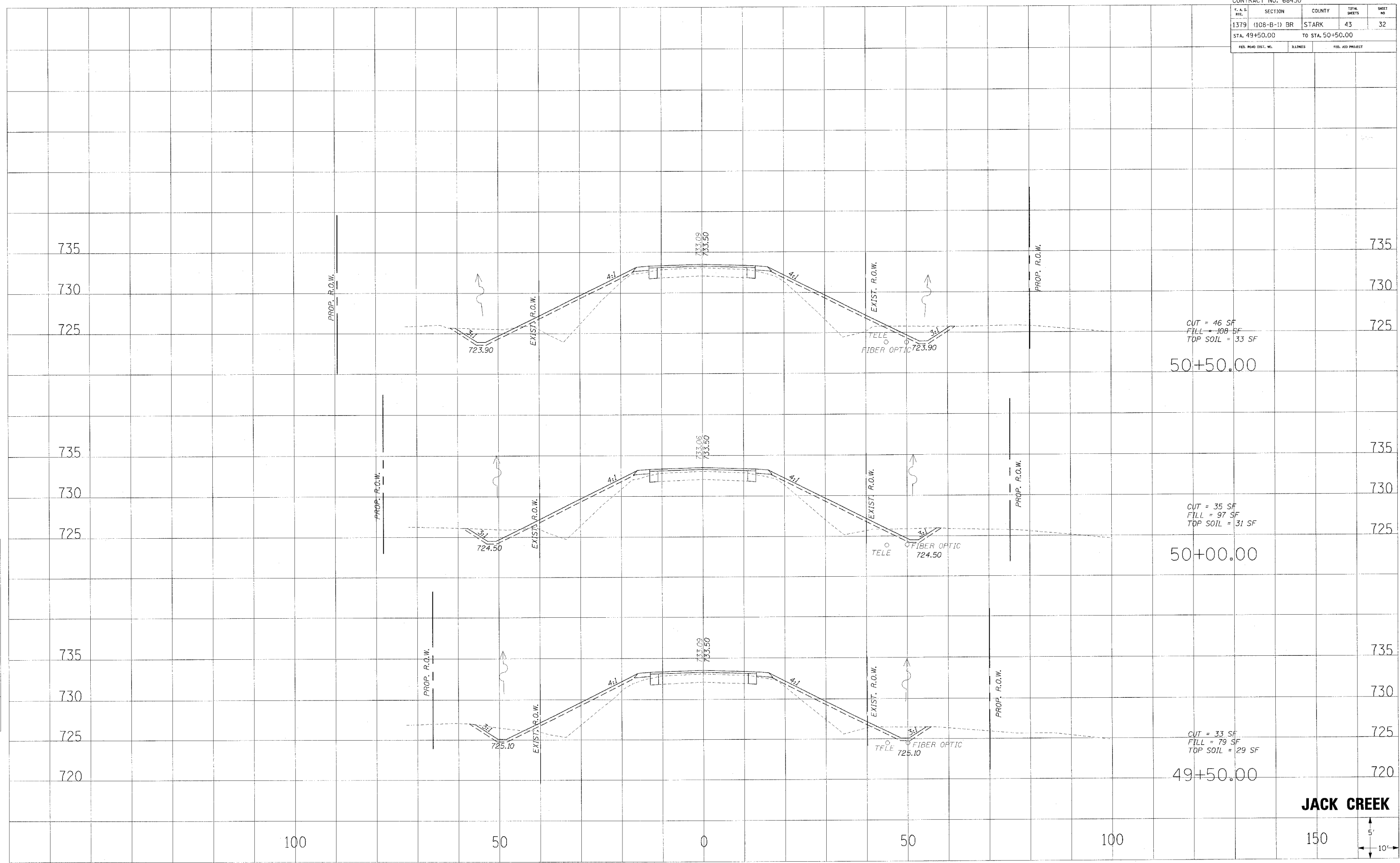
| F. A. S. REF. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|------------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 32 |
| STA. 49+50.00 | | TO STA. 50+50.00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

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ORIGINAL SURVEYED
SURVEY PLOTTED
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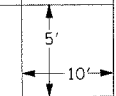


CUT = 46 SF
FILL = 108 SF
TOP SOIL = 33 SF
50+50.00

CUT = 35 SF
FILL = 97 SF
TOP SOIL = 31 SF
50+00.00

CUT = 33 SF
FILL = 79 SF
TOP SOIL = 29 SF
49+50.00

JACK CREEK



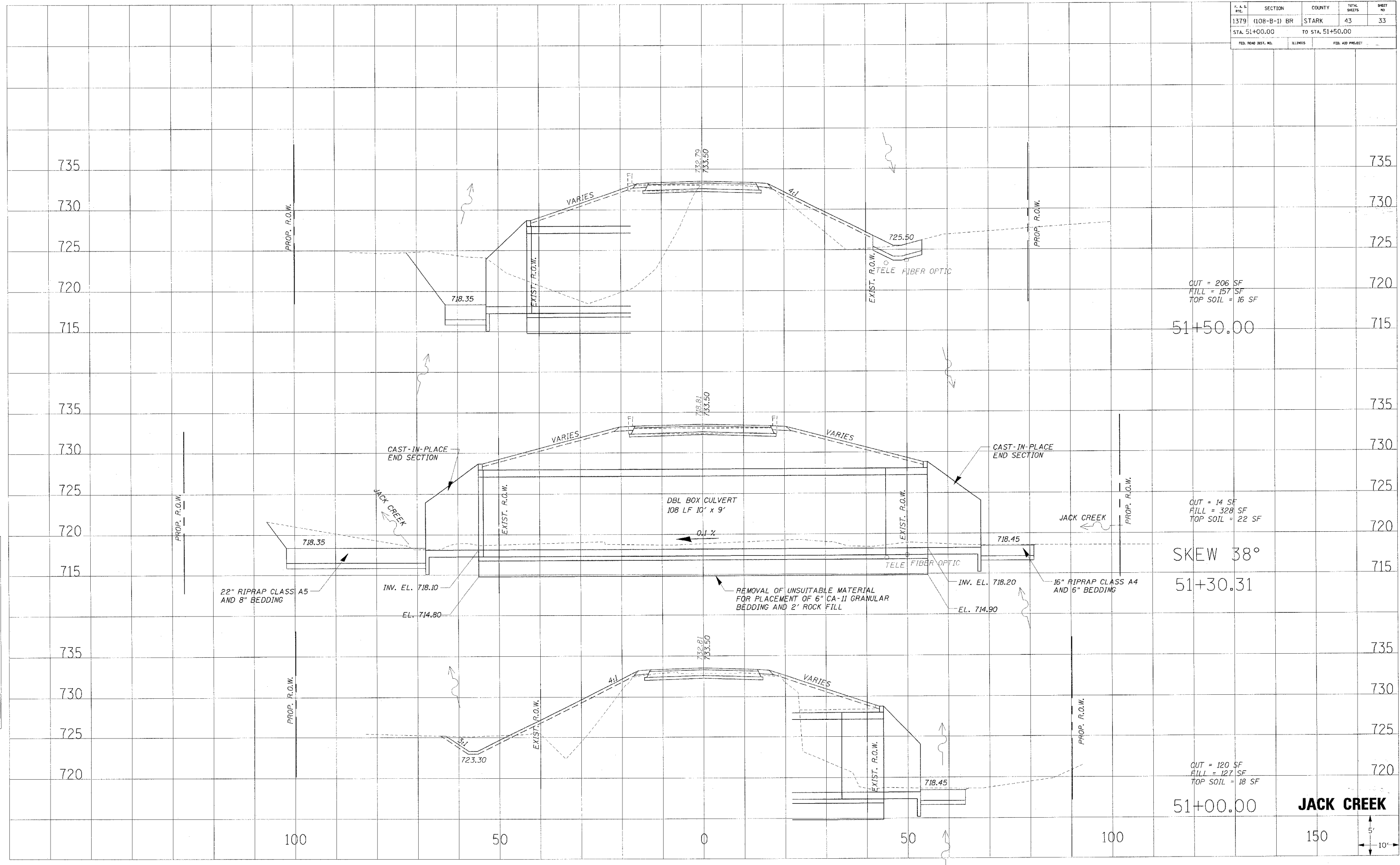
| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 33 |
| STA. 51+00.00 | | TO STA. 51+50.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

FINAL SURVEY

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

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| SURVEYED | |
| PLOTTED | |
| NOTE BOOK NO. | |
| AREAS CHECKED | |
| AREAS CORRECTED | |



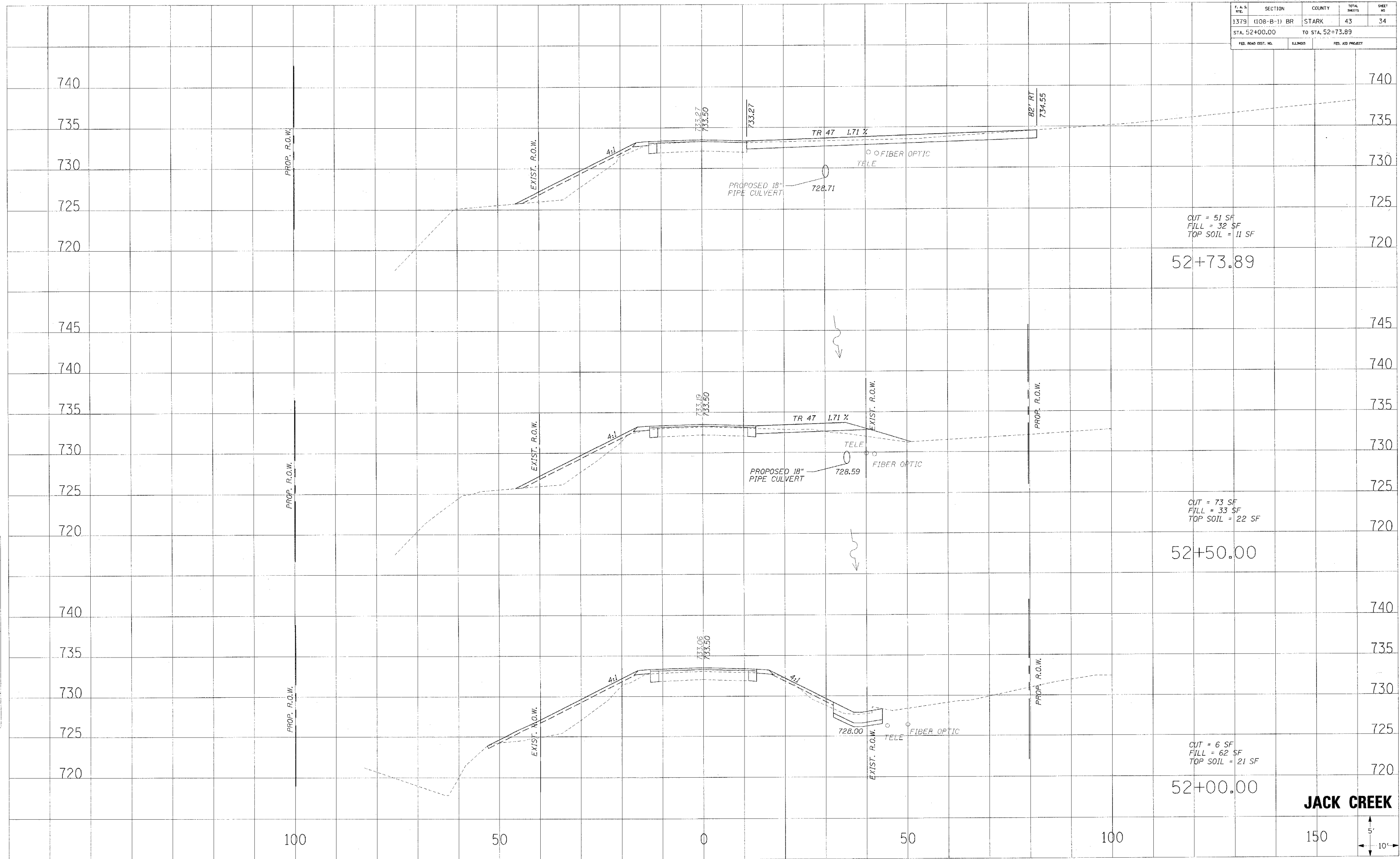
JACK CREEK



| F.A.S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 34 |
| STA. 52+00.00 | | TO STA. 52+73.89 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

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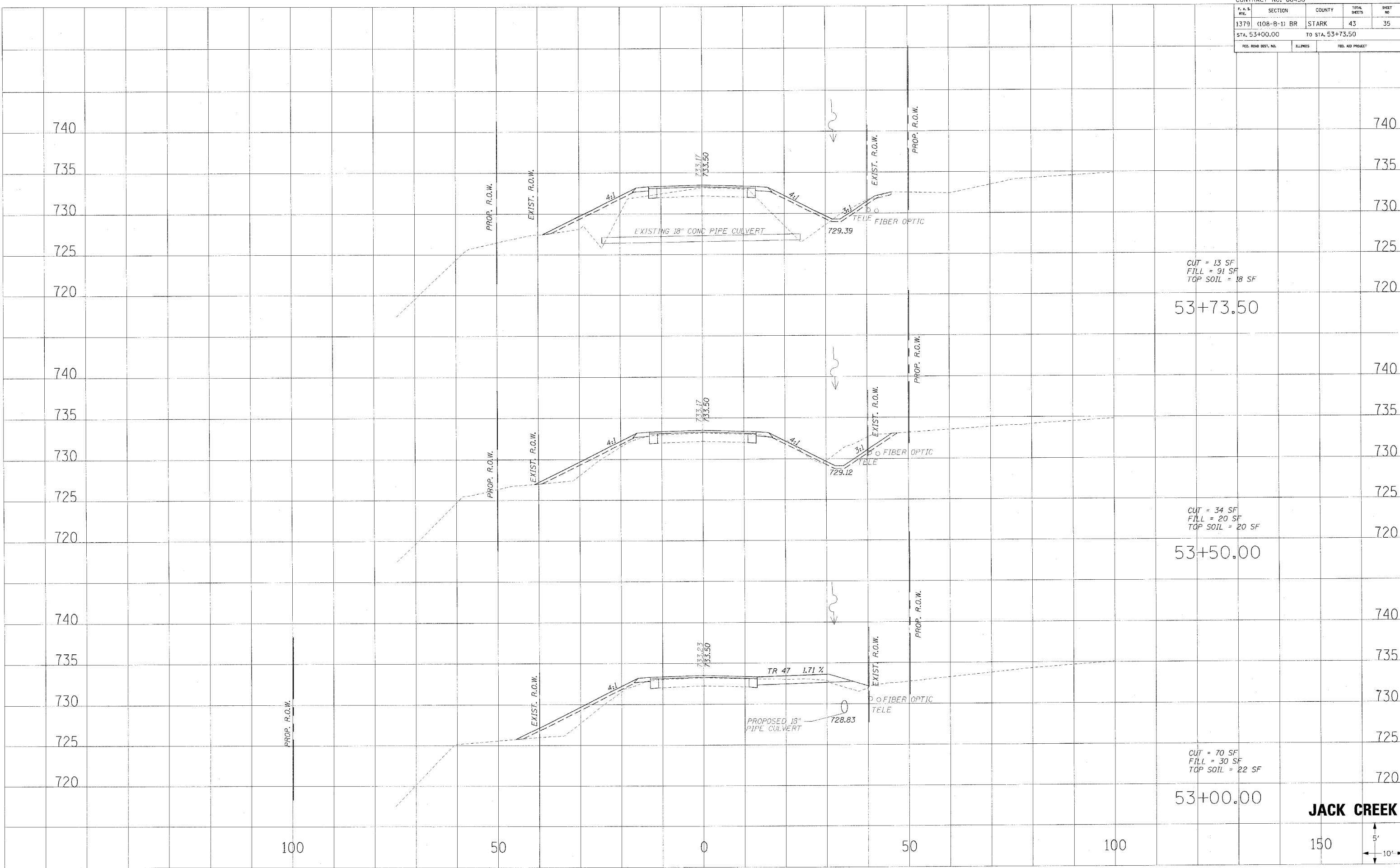
JACK CREEK



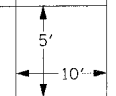
| CONTRACT NO. 68430 | | | | |
|---------------------|--------------|------------------|--------------|-----------|
| F. A. S. MILE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 35 |
| STA. 53+00.00 | | TO STA. 53+73.50 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

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JACK CREEK



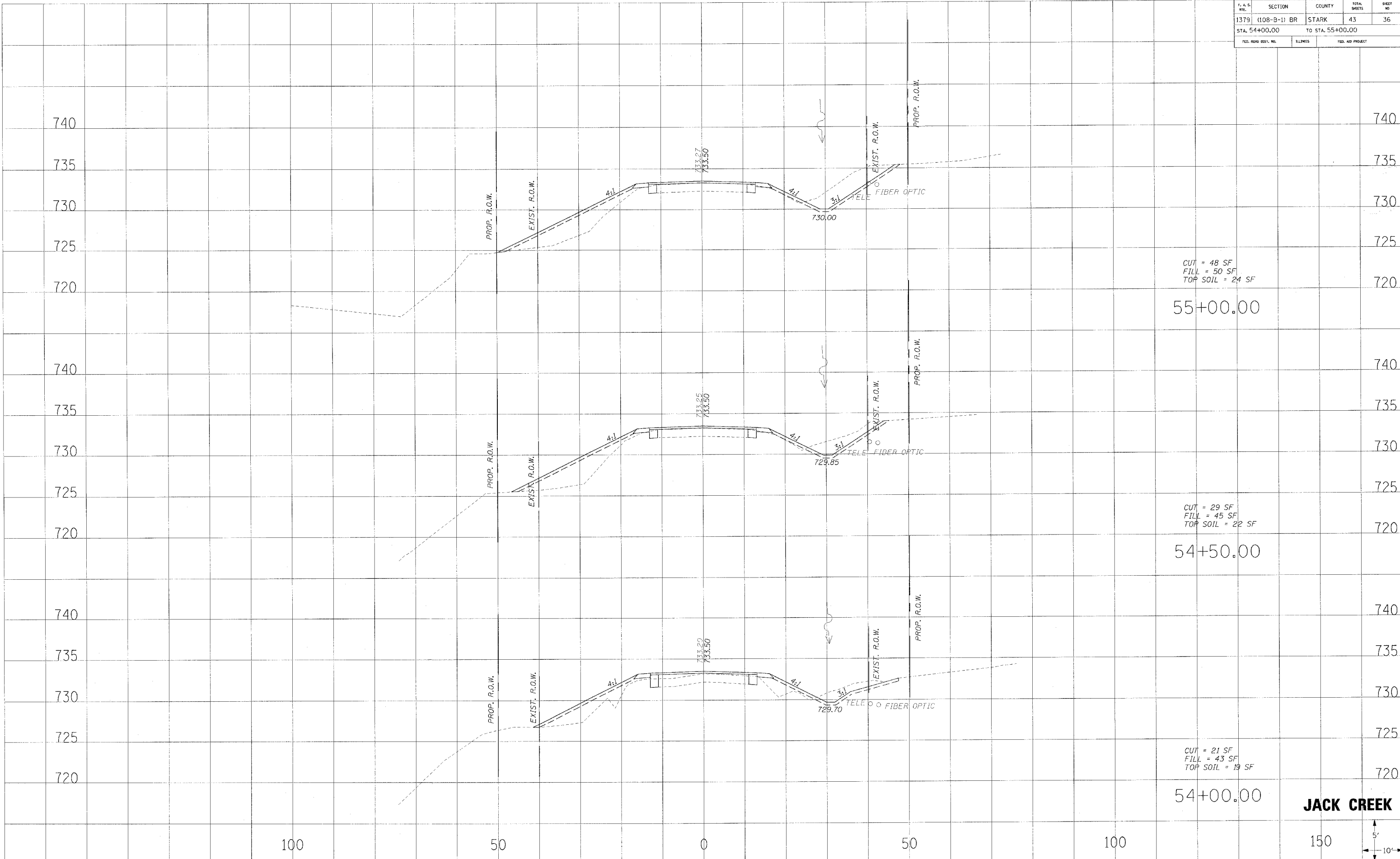
| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 36 |
| STA. 54+00.00 | | TO STA. 55+00.00 | | |
| FED. ROAD DIST. NO. | BLENDS | FED. AID PROJECT | | |

| BY | DATE |
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 NOTE BOOK
 AREAS CHECKED

| BY | DATE |
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ORIGINAL SURVEY
 PLOTTED
 NOTE BOOK
 AREAS CHECKED



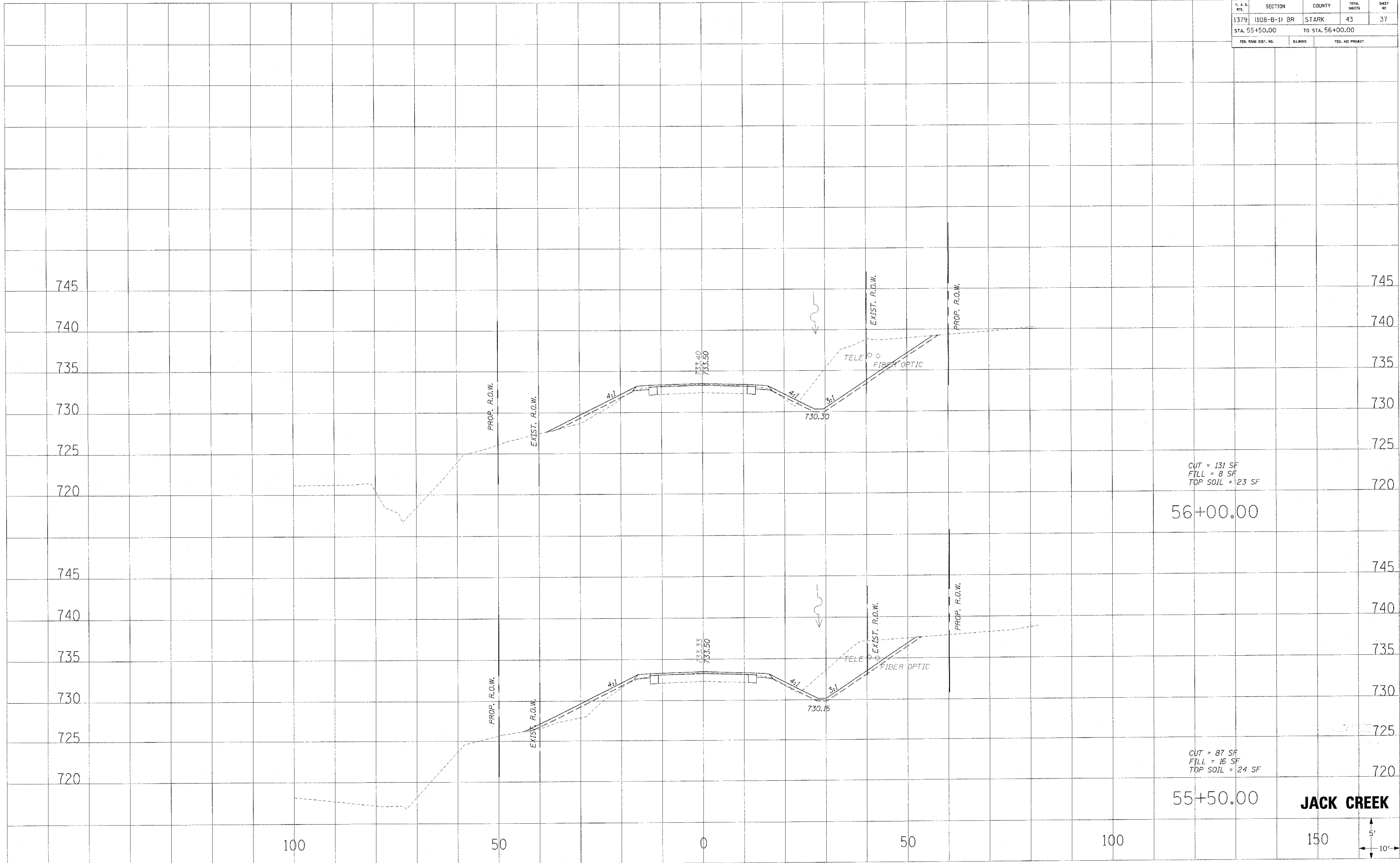
| F. A. S. RTL. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 37 |
| STA. 55+50.00 | | TO STA. 56+00.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

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ORIGINAL SURVEY PLOTTED
NOTE BOOK TEMPLATE AREAS CHECKED



CUT = 131 SF
FILL = 8 SF
TOP SOIL = 23 SF

56+00.00

CUT = 87 SF
FILL = 16 SF
TOP SOIL = 24 SF

55+50.00

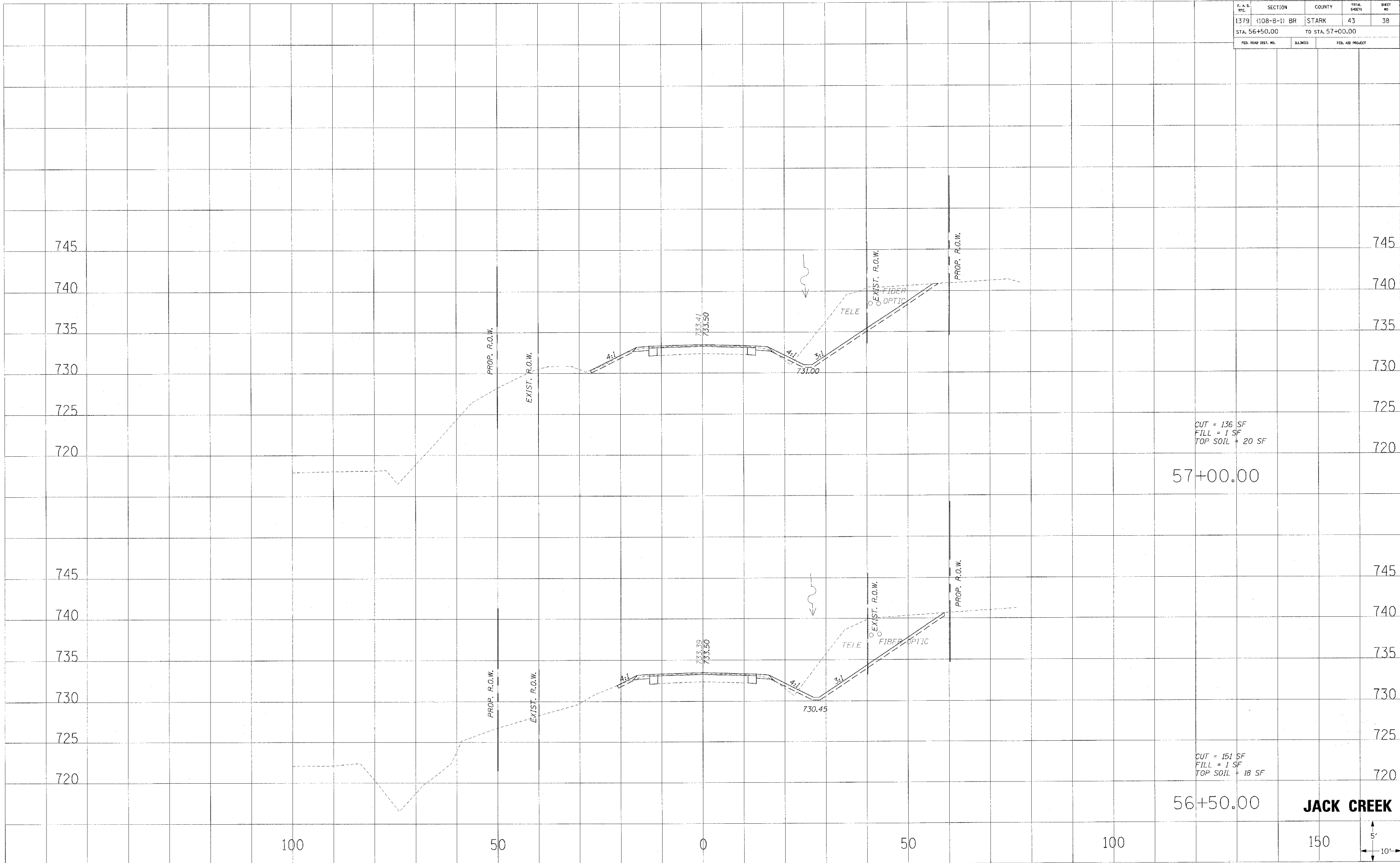
JACK CREEK



| F.A.R. P.L. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 38 |
| STA. 56+50.00 | | TO STA. 57+00.00 | | |
| FED. ROAD DIST. NO. | ALIGNMENT | FED. AID PROJECT | | |

BY _____ DATE _____
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 PLOTTED _____
 NOTE BOOK _____
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BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
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 AREAS CHECKED _____



| F. A. S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 39 |
| STA. 57+50.00 | | TO STA. 59+00.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

FINAL SURVEY

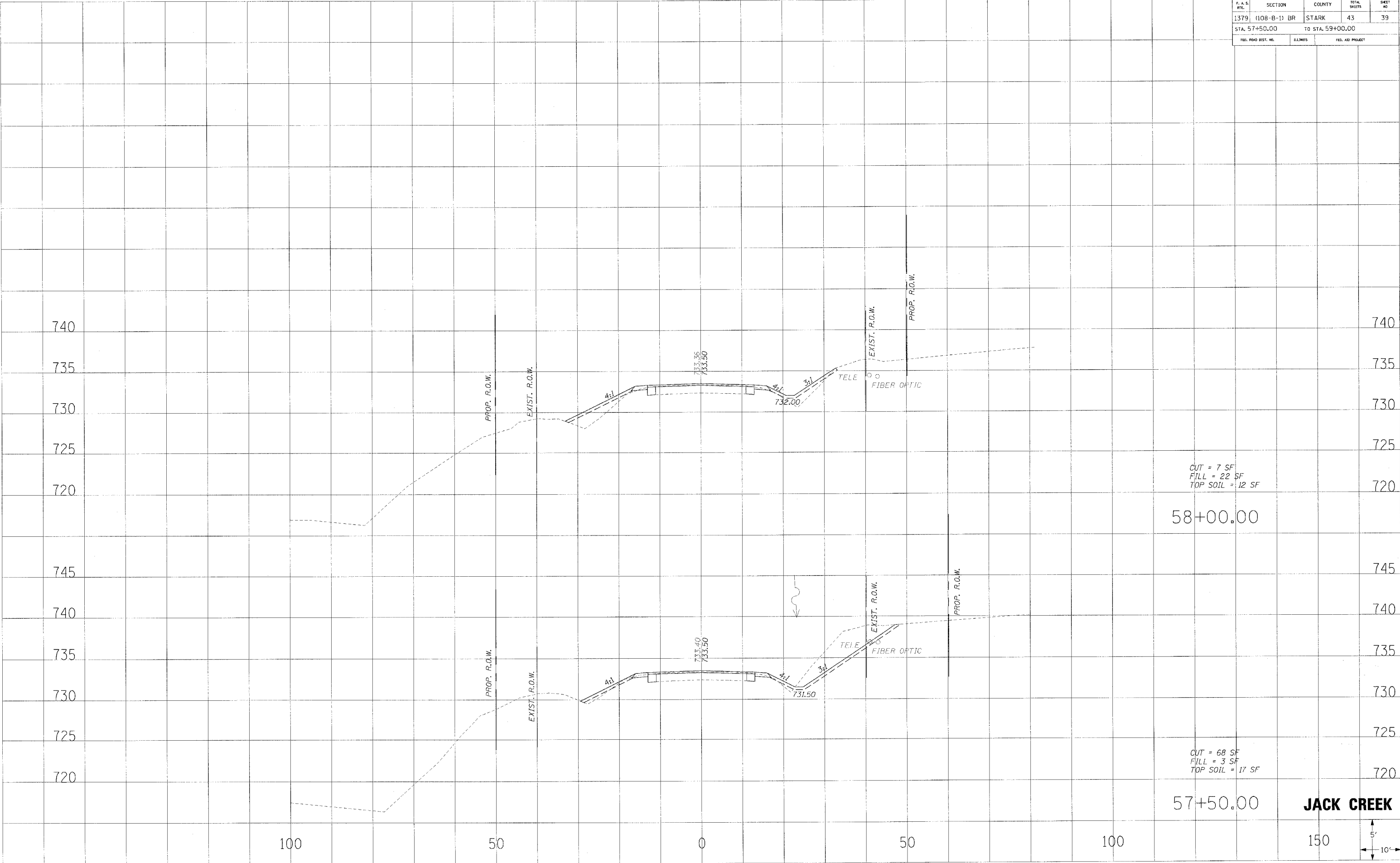
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| BY | DATE |
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SURVEYED
 PLOTTED
 NOTE BOOK
 NO.

ORIGINAL SURVEY

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| BY | DATE |
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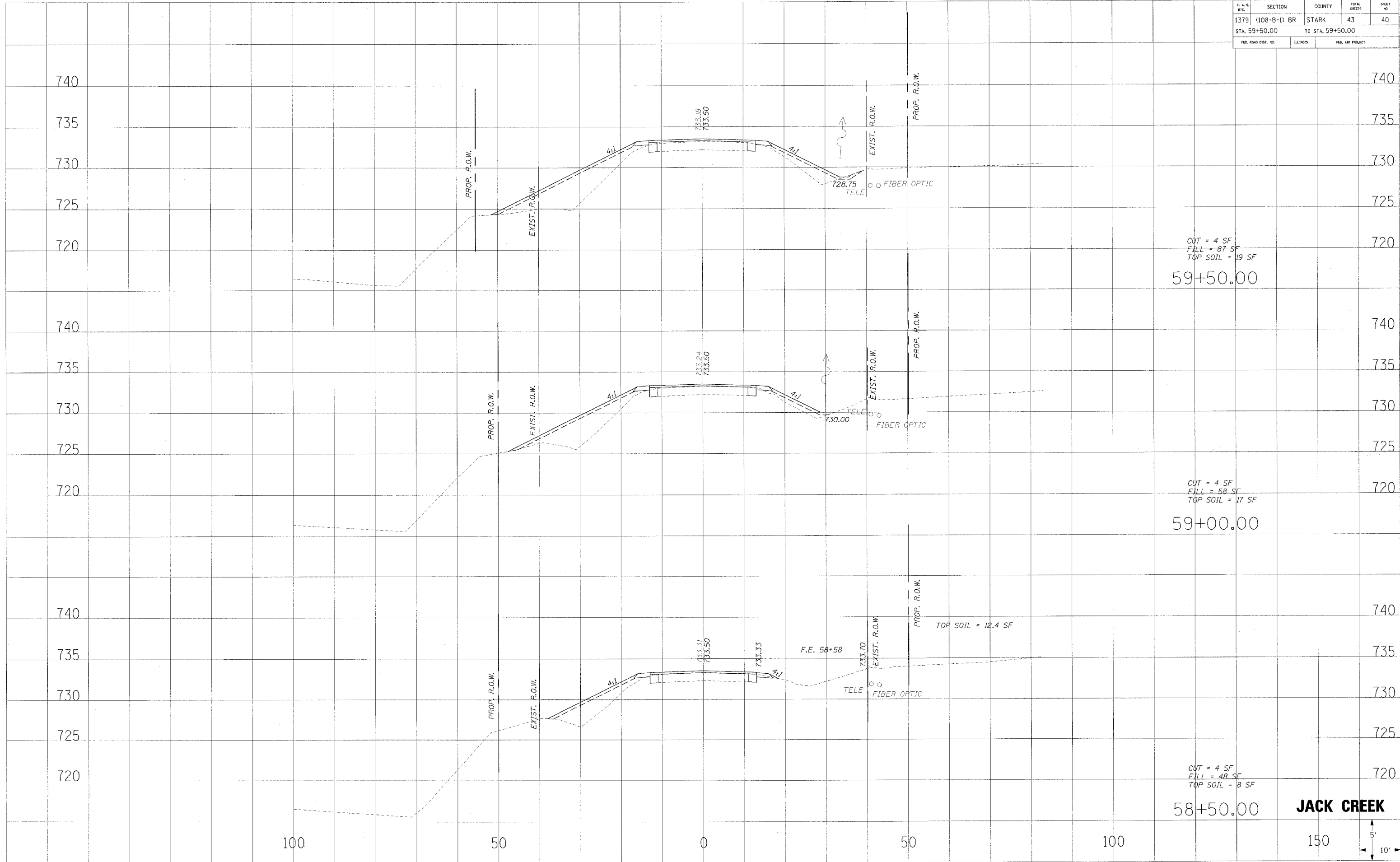
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| CONTRACT NO. 68430 | | | | |
| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 40 |
| STA. 59+50.00 | | TO STA. 59+50.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

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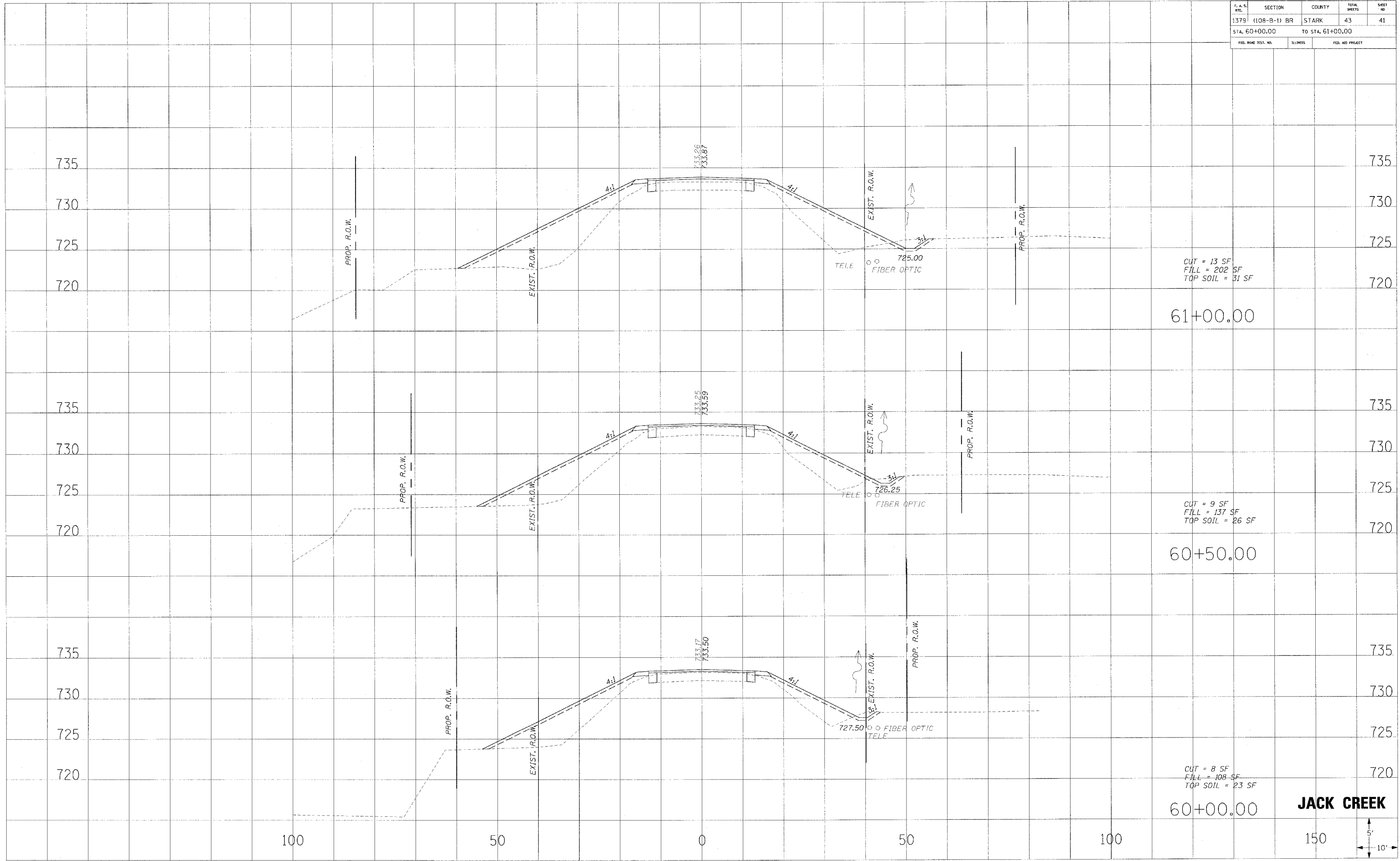
JACK CREEK



| F.A.S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 41 |
| STA. 60+00.00 | | TO STA. 61+00.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

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

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



CUT = 13 SF
 FILL = 202 SF
 TOP SOIL = 51 SF

61+00.00

CUT = 9 SF
 FILL = 137 SF
 TOP SOIL = 26 SF

60+50.00

CUT = 8 SF
 FILL = 108 SF
 TOP SOIL = 23 SF

60+00.00

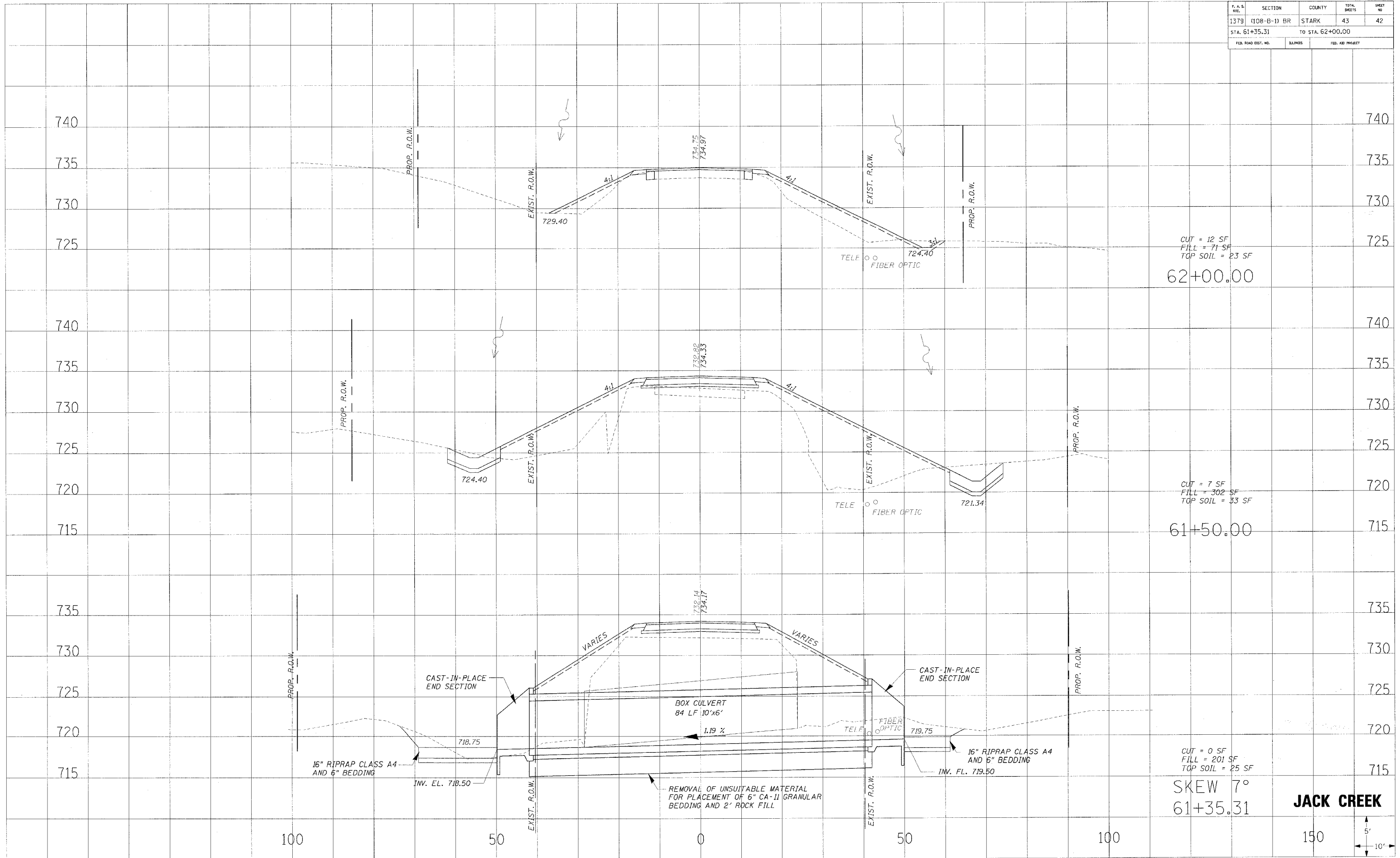
JACK CREEK



| | | | | |
|---------------------|--------------|------------------|--------------|-----------|
| CONTRACT NO. 68430 | | | | |
| F.A.S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1379 | (108-B-1) BR | STARK | 43 | 42 |
| STA. 61+35.31 | | TO STA. 62+00.00 | | |
| FED. ROAD DIST. NO. | DISTRICT | FED. AID PROJECT | | |

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CUT = 12 SF
 FILL = 71 SF
 TOP SOIL = 23 SF
 62+00.00

CUT = 7 SF
 FILL = 302 SF
 TOP SOIL = 33 SF
 61+50.00

CUT = 0 SF
 FILL = 201 SF
 TOP SOIL = 25 SF
 SKEW 7°
 61+35.31

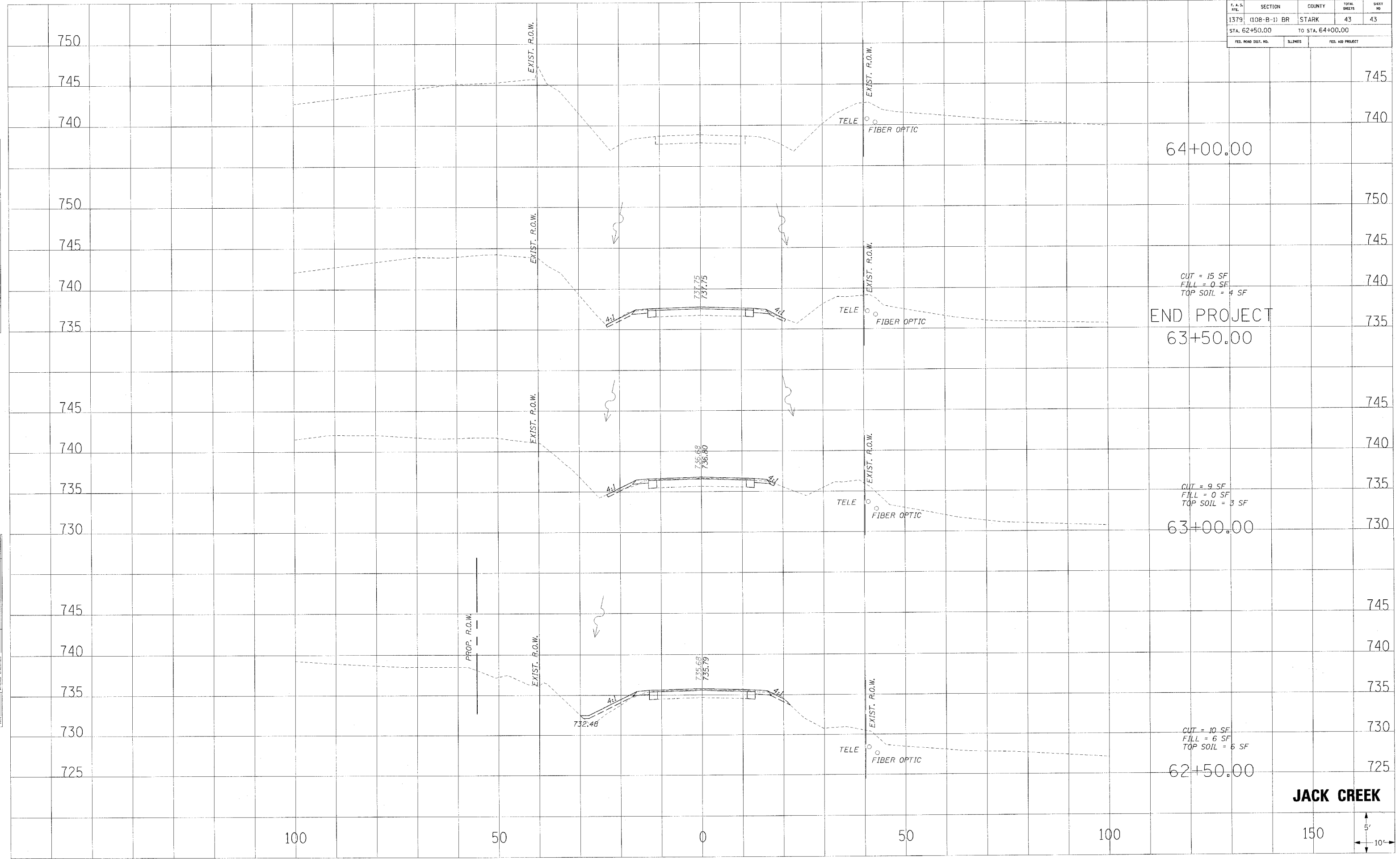
JACK CREEK



| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|--------------|------------------|--------------|-----------|
| 1379 | (108-B-1) BR | STARK | 43 | 43 |
| STA. 62+50.00 | | TO STA. 64+00.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

FINAL SURVEY
 SURVEYED BY
 PLOTTED BY
 CHECKED BY
 DATE

ORIGINAL SURVEY
 SURVEYED BY
 PLOTTED BY
 CHECKED BY
 DATE



JACK CREEK

