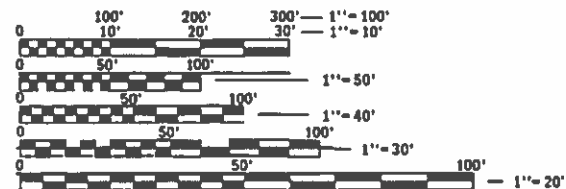


INDEX OF SHEETS

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DESIGN DESIGNATIONS

INTERSTATE (RURAL)
 CURRENT ADT: 30,500 (2018)
 DESIGN SPEED: 70 MPH
 POSTED SPEED: 70 MPH
 MU = 39%, SU = 7%



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

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

PROJECT ENGINEER **MATHEW DOBIE, P.E.**
 PROJECT MANAGER **MAHMOUD ETEMADI, P.E.**

CONTRACT NO. 64M77

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

CRESTON ROAD OVER FAI ROUTE 39 & U.S. ROUTE 51
 SECTION (141-1HB-2)BRR
 BRIDGE REPAIR
 OGLE COUNTY

C-92-029-18

TOWNSHIP 40 NORTH
 RANGE 1 EAST OF 4TH P.M.
 SECTION 20 & 29

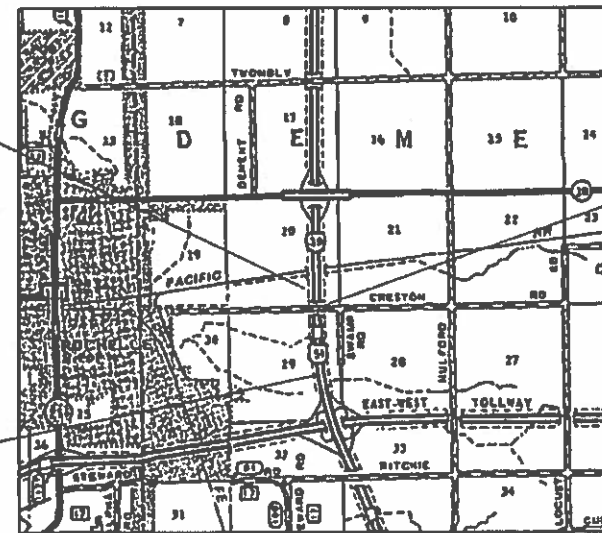
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 1 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

D-92-022-18



PROJECT ENDS
 STA. 1477 + 16

PROJECT BEGINS
 STA. 1449 + 85



MAP NOT TO SCALE

LOCATION MAP

GROSS LENGTH = 2,731 FT. = 0.517 MILE
 NET LENGTH = 2,731 FT. = 0.517 MILE



EXISTING STRUCTURE
 S.N. 071-0061 A TWO SPAN
 (1 @ 104'-4" AND 1 @ 105'-10")
 PRECAST, PRESTRESSED
 P.C.C. DECK BEAM BRIDGE



DATE: 6-20-18
 EXPIRES 11/30/19

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED June 25, 2018
K. Mansel REGIONAL ENGINEER

Aug 17, 18
Paul P. Ch... ENGINEER OF DESIGN AND ENVIRONMENT

Aug 17, 18
Paul P. Ch... DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

| | |
|-----------|--|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 542506-03 | INLET BOX TYPE 24 (600) B |
| 542546-01 | FLUSH INLET BOX FOR MEDIAN |
| 601001-05 | PIPE UNDERDRAINS |
| 601101-02 | CONCRETE HEADWALL FOR PIPE UNDERDRAINS |
| 602402 | PRECAST MANHOLE TYPE A, 5' DIAMETER |
| 602601-05 | PRECAST REINFORCED CONCRETE FLAT SLAB TOP |
| 602701-02 | MANHOLE STEPS |
| 643001-02 | SAND MODULE IMPACT ATTENUATORS |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE |
| 701101-05 | OFF-RD OPERATIONS, MULTILANE, 15' T 24" FROM PAVEMENT EDGE |
| 701311-03 | LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY |
| 701316-12 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH |
| 701321-17 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER |
| 701400-09 | APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY |
| 701401-11 | LANE CLOSURE, FREEWAY / EXPRESSWAY |
| 701406-11 | LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY |
| 701416-11 | LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH Crossover AND BARRIER |
| 701426-09 | LANE CLOSURE, MULTILANE, INERMITTENT, OR MOVING OPER., FOR SPEEDS ≥ 45 MPH |
| 701428-01 | TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY / EXPRESSWAY |
| 701901-07 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 720011-01 | METAL POSTS FOR SIGNS, MARKERS & DELINEATORS |
| 728001-01 | TELESCOPING STEEL SIGN SUPPORT |
| 729001-01 | APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 781001-04 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |
| 825001-03 | LIGHTING CONTROLLER POLE MOUNTED, 240V |
| BE-800 | TEMPORARY LIGHT POLE DETAILS |

GENERAL NOTES

THE REMOVAL OF BITUMINOUS SURFACING LESS THAN 6 INCH THICKNESS NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE OR A THICKNESS OF 6 INCHES OR MORE ON A FLEXIBLE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR TOPSOIL FURNISH AND PLACE, 4" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

IT IS ESTIMATED THAT 549 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 25% HAS BEEN USED.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1A. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.

ALL "AGGREGATE SUBGRADE IMPROVEMENT"(SECTION 303), SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.

THIS STRUCTURE WILL RETAIN THE SAME NUMBER 071-0061.

GENERAL NOTES (CONT.)

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
4. CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1 MILE OR AS DIRECTED BY THE ENGINEER. BRIDGE OR CULVERT PROJECTS SHALL HAVE ONE SURVEY MARKER PLACED NEAR THE STRUCTURE. ESTIMATED: 1 EACH.

PERMANENT SURVEY MARKERS, TYPE II PLACED IN URBAN AREAS SHOULD BE PLACED IN SIDEWALK AREAS. THE MARKER SHALL BE PLACED AS SHOWN ON DISTRICT STANDARD 66.2. THE SIDEWALK SHALL BE PLACED AROUND THE MARKER AND FLUSH WITH THE TOP.

PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2, OR ANOTHER OPTION WOULD BE TO INSTALL AVAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT), WITH INSTALLATION INSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS. IF POURED IN PLACE, THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.

THE PERMANENT SURVEY MARKERS, IF POSSIBLE, SHALL BE INSTALLED AT THE BEGINNING OF THE JOB AND PROTECTED THROUGHOUT.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE HORIZONTAL COORDINATES MUST BE DERIVED BY GPS AND THE ELEVATION DERIVED USING AN ELECTRONIC LEVEL. THE META DATA, SUCH AS THE GEOID USED, (NGS ADJUSTMENT IE: 97 HARN, 03, 07), AND THE BASE POINT(S) NAME OR NUMBER SHALL BE SUBMITTED ALONG WITH A COMPLETE COLLECTION LOG. IF COLLECTED USING RTK METHOD, IT WILL REQUIRE EITHER 3 COLLECTIONS (AVERAGED) FROM 2 DIFFERENT BASES, OR A MINIMUM OF 3 COLLECTIONS (AVERAGED), AT LEAST 2 HOURS APART, FROM THE SAME BASE. IF USING A CORS TYPE NETWORK, THE COLLECTION PROCEDURE SHALL INCLUDE LOCALIZING WITH CHECK SHOTS ON AT LEAST 2 DIFFERENT HARN MONUMENTS BOTH BEFORE AND AFTER COLLECTION. THE LEVEL CIRCUIT SHALL BE RUN FROM FURNISHED MARK TO FURNISHED MARK AND THEN ADJUSTED. THE ERROR OF CLOSURE SHALL BE SUBMITTED WITH THE ELECTRONIC LEVEL NOTES IN A RECOGNIZED FORMAT APPROVED BY THE ENGINEER AND/OR THE CHIEF OF SURVEYS. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE DISTRICT CHIEF OF SURVEYS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

COMCAST
688 INDUSTRIAL DRIVE
ELMHURST, IL 60126
CONTACT: MARTHA GIERAS
PH: 224-229-5862
EMAIL: MARTHA_GIERAS@COMCAST.COM

CENTURY LINK
11111 DORSETT ROAD
ST. LOUIS, MO 63043
CONTACT: KIRK THOELKE
PH: 309-477-0363
EMAIL: KIRK.THUOLKE@CENTURYLINK.COM

FRONTIER COMMUNICATIONS
112 ELM STREET
SYCAMORE, IL 60178
CONTACT: KALIN HINSHAW
PH: 815-895-1515
EMAIL: KALIN.HINSHAW@FTR.COM

NICOR GAS
PH: 630-388-2362

ROCHELLE MUNICIPAL UTILITIES
700 W. 2ND AVENUE
ROCHELLE, IL 61068
CONTACT: JASON BIRD OR TOBY LINDELAND
PH: 815-994-6091 (JASON)
EMAIL: JBIRD@RMU.NET & TLINDELAND@RMU.NET

GENERAL NOTES (CONT.)

IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICALE DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.

CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

THE FOLLOWING MIXTURE REQUITEMENTS ARE APPLICABLE FOR THIS PROJECT:

| MIXTURE DESIGN | WIDENING | | SHOULDERS | |
|---|--------------|--------------|------------------------|-----------------|
| | SURFACE | BINDER | TOP LIFT | ALL LOWER LIFTS |
| PG: | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS | 4.0 @ N70 | 4.0 @ N70 | 4.0 @ N70 | 3.0 @ N70 |
| MIXTURE COMPOSITION (GRADATION MIXTUTE) | IL 9.5 | IL 19.0 | IL 9.5 OR IL 9.5 FG | IL 19.0 |
| FRICTION AGGREGATE | D | N/A | D | N/A |
| 20 YEAR ESAL | N/A | N/A | N/A | N/A |
| MIX UNIT WEIGHT | 112LBS/SY/IN | 112LBS/SY/IN | 112LBS/SY/IN | 112LBS/SY/IN |

PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2. OPTION 2 WOULD BE TO INSTALL A VAULTED STYLE MONUMENT AS DESCRIBED BY NGS AS A 3D MONUMENT (TOP SECURITY SLEEVE ROD MONUMENT). WITH INSTALLATION INSTRUCTIONS PROVIDED BY THE DISTRICT CHIEF OF SURVEYS. IF POURED IN PLACE THE BOTTOM OF THE MARKER SHALL BE 5'-0" BELOW THE GROUND SURFACE.

NOTE: TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WHERE A HAZARD EXISTS WITHIN 37 INCHES. BETWEEN 12 INCHES AND 37 INCHES, RISK ASSESSMENT SHALL BE PERFORMED ACCORDING TO SAFETY ENGINEERING POLICY MEMORANDUM 4-15, DATED 3-1-15. THE DESIGNER SHOULD ADD THE LOCATIONS THAT MUST BE PINNED. THERE COULD BE MULTIPLE LOCATIONS ON A PROJECT. THE DESIRABLE MINIMUM OFFSET FROM THE TRAVEL LANE TO THE TEMPORARY CONCRETE BARRIER IS 2 FEET.

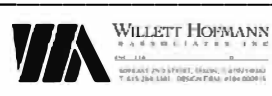
THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:

LT 1452+50 TO 1452+65.5
LT 1471+86.5 TO 1471+99

THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

CRESTON ROAD: ALL CORE HOLES FROM THE TYPE III BARRICADES SHALL BE FILLED IMMEDIATELY UPON THE START OF THE PROJECT. ANY AND ALL WATER SHALL BE REMOVED FROM THE CORE HOLES PRIOR TO FILLING. ALL CORE HOLES SHALL BE FILLED WITH A RAPID HARDENING MORTAR OR CONCRETE WHICH SHALL BE MIXED IN A SEPARATE CONTAINER PRIOR TO PLACEMENT IN THE HOLE. ANY DEPRESSIONS IN THE SURFACE OF THE FILLED CORE HOLES GREATER THAN 1/4 in. (6mm) AT THE TIME OF FINAL INSPECTION WILL REQUIRE REMOVAL OF THE FILL MATERIAL TO THE DEPTH OF THE PAVEMENT SURFACE.

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| | | |
|----------------------------|----------------|-----------|
| USER NAME = lukan | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 10.0000' / 1" | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/22/2018 | DATE - 6/20/18 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS AND GENERAL NOTES

SCALE _____ SHEET 1 OF 1 SHEETS STA. _____ TO STA. _____

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 2 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013 100% STATE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|----------|--|-------|----------------|
| 20400800 | FURNISHED EXCAVATION | CU YD | 1,496 |
| 21101600 | TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH | SQ YD | 12,537 |
| 25000210 | SEEDING, CLASS 2A | ACRE | 2.75 |
| 25000750 | MOWING | ACRE | 2.75 |
| 25100125 | MULCH, METHOD 3 | ACRE | 2.75 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 518 |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 276 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 769 |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 5 |
| 30300112 | AGGREGATE SUBGRADE IMPROVEMENT 12" | SQ YD | 7,431 |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 7,632 |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 763 |
| 40603085 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | TON | 981 |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | TON | 380 |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|----------|--|-------|----------------|
| 42000501 | PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) | SQ YD | 4,494 |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 2,165 |
| 48203021 | HOT-MIX ASPHALT SHOULDERS, 6" | SQ YD | 1,055 |
| 50102400 | CONCRETE REMOVAL | CU YD | 69.8 |
| 50157300 | PROTECTIVE SHIELD | SQ YD | 140 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 69.8 |
| 50300300 | PROTECTIVE COAT | SQ YD | 159 |
| 50401105 | FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN. | FOOT | 214 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 11,550 |
| 50800530 | MECHANICAL SPLICERS | EACH | 532 |
| 52000050 | PREFORMED JOINT SEAL 4" | FOOT | 30 |
| 542A0229 | PIPE CULVERTS, CLASS A, TYPE 1 24" | FOOT | 16 |
| 5421A018 | PIPE CULVERTS, CLASS A, TYPE 1 18" (TEMPORARY) | FOOT | 104 |
| 54244405 | FLUSH INLET BOX FOR MEDIAN, STANDARD 542546 | EACH | 1 |

* SPECIALITY ITEM

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| | | |
|-----------------------------|----------------|-----------------|
| USER NAME = lukan | DESIGNED - LGN | REVISED - _____ |
| | DRAWN - TBS | REVISED - _____ |
| PLOT SCALE = 20.0000' / in. | CHECKED - GFS | REVISED - _____ |
| PLOT DATE = 6/22/2018 | DATE - 6/20/18 | REVISED - _____ |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE _____ SHEET 1 OF 3 SHEETS STA. _____ TO STA. _____

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 3 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013 100% STATE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|----------|---|--------|----------------|
| 54248510 | CONCRETE COLLAR | CU YD | 0.6 |
| 550A0410 | STORM SEWERS, CLASS A, TYPE 2 24" | FOOT | 145 |
| 60107600 | PIPE UNDERDRAINS 4" | FOOT | 74 |
| 60221000 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID | EACH | 1 |
| 63800920 | MODULAR GLARE SCREEN SYSTEM, TEMPORARY | FOOT | 1,950 |
| 64301090 | ATTENUATOR BASE | SQ YD | 18 |
| 66700305 | PERMANENT SURVEY MARKERS, TYPE II | EACH | 1 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 4 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70100100 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701316 | EACH | 1 |
| 70100207 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 | EACH | 2 |
| 70100410 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701416 | EACH | 1 |
| 70100701 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701406 | EACH | 2 |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE | CAL DA | 10 |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|------------|---|--------|----------------|
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 |
| 70200100 | NIGHTTIME WORK ZONE LIGHTING | L SUM | 1 |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 21,390 |
| * 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 6,631 |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 1,950 |
| * 78008310 | POLYUREA PAVEMENT MARKING TYPE II - LINE 4" | FOOT | 16,918 |
| * 78008330 | POLYUREA PAVEMENT MARKING TYPE II - LINE 6" | FOOT | 2,115 |
| X0301993 | REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN | EACH | 3 |
| X0322288 | MEDIAN CLOSURE | EACH | 1 |
| X0322392 | BEVELED PIPE AND GUARD | EACH | 1 |
| X0325345 | REALIGN EXISTING ATTENUATORS | SQ YD | 54 |
| X0327596 | PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR | L SUM | 1 |
| * X0327640 | REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT | CAL MO | 3 |
| * X0327641 | REAL-TIME TRAFFIC CONTROL SENSOR UNIT | CAL MO | 6 |
| X0327980 | PAVEMENT MARKING REMOVAL - WATER BLASTING | SQ FT | 14,762 |

* SPECIALITY ITEM

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| | | |
|-----------------------------|----------------|-----------------|
| USER NAME = lukan | DESIGNED - LGN | REVISED - _____ |
| | DRAWN - TBS | REVISED - _____ |
| PLOT SCALE = 20.0000' / in. | CHECKED - GFS | REVISED - _____ |
| PLOT DATE = 6/22/2018 | DATE - 6/20/18 | REVISED - _____ |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE _____ SHEET 2 OF 3 SHEETS STA. _____ TO STA. _____

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 4 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

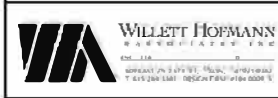
SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013 100% STATE

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY |
|----------|---|--------|----------------|
| X0484300 | MEDIAN INLET BOX REMOVAL | EACH | 1 |
| X0325748 | ACRYLIC COATING | SQ FT | 147.5 |
| X2020410 | EARTH EXCAVATION (SPECIAL) | CU YD | 545 |
| X0325749 | FIBER WRAP | SQ FT | 147.5 |
| X4400110 | TEMPORARY PAVEMENT REMOVAL | SQ YD | 1,121 |
| X6013700 | PIPE UNDERDRAIN REMOVAL (SPECIAL) | FOOT | 12 |
| X6015000 | REMOVE CONCRETE HEADWALLS FOR PIPE DRAINS | EACH | 2 |
| X6023840 | REMOVE AND RELOCATE INLETS | EACH | 1 |
| X6024875 | TEMPORARY INLET | EACH | 1 |
| X6431110 | REMOVE ATTENUATOR BASE | EACH | 1 |
| X7015005 | CHANGEABLE MESSAGE SIGN | CAL DA | 208 |
| X8410102 | TEMPORARY LIGHTING SYSTEM | L SUM | 1 |
| Z0003615 | REMOVAL OF EXISTING CONCRETE I-BEAM | EACH | 2 |
| Z0007122 | REMOVING AND RE-ERECTING EXISTING RAILING | FOOT | 217.5 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 |
| Z0065740 | SLOTTED DRAIN 12" WITH VARIABLE SLOT | FOOT | 291 |

* SPECIALITY ITEM

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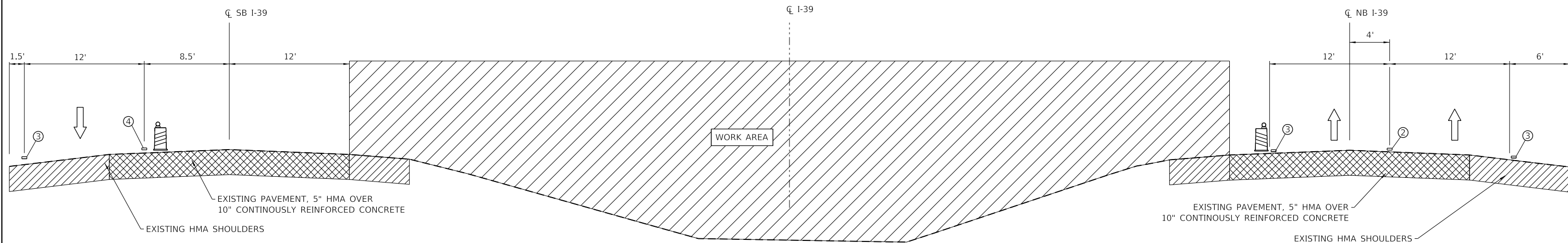
| | | |
|-----------------------------|----------------|-----------------|
| USER NAME = lukan | DESIGNED - LGN | REVISED - _____ |
| | DRAWN - TBS | REVISED - _____ |
| PLOT SCALE = 20.0000' / in. | CHECKED - GFS | REVISED - _____ |
| PLOT DATE = 6/22/2018 | DATE - 6/20/18 | REVISED - _____ |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

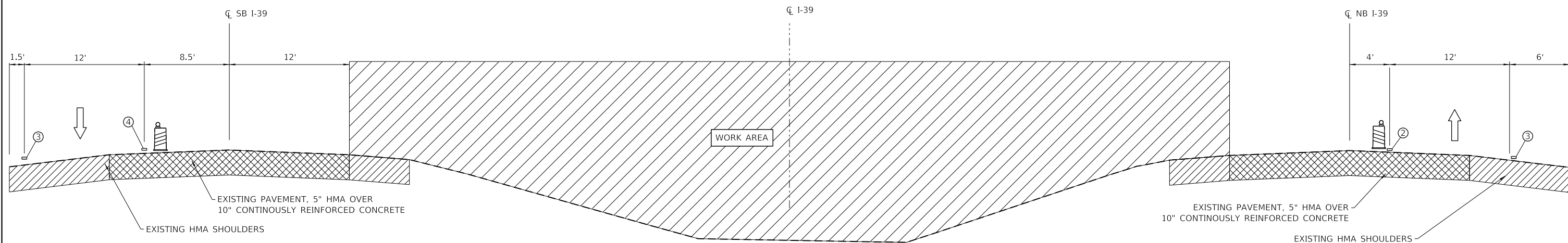
SUMMARY OF QUANTITIES

SCALE _____ SHEET 3 OF 3 SHEETS STA. _____ TO STA. _____

| | | | | |
|---------------------------|----------------|--------|--------------|--------------------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 5 |
| | | | | CONTRACT NO. 64M77 |
| ILLINOIS FED. AID PROJECT | | | | |



PRE-STAGE TYPICAL SECTION - NON-WORKING HOURS
 STA. 1444+85 TO STA. 1479+15



PROPOSED TYPICAL SECTION - WORKING HOURS
 STA. 1444+85 TO STA. 1479+15

- ① TOPSOIL FURNISH & PLACE, 4" AND SEEDING, CLASS 2A (SPECIAL)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

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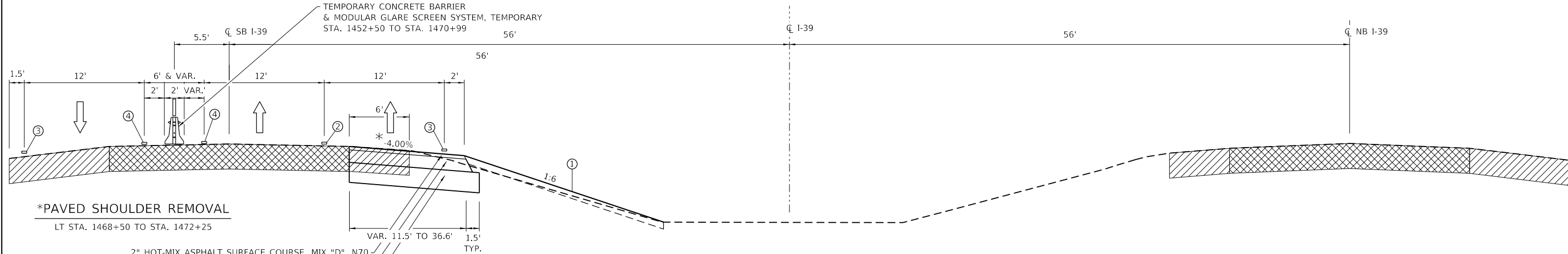
| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 120.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

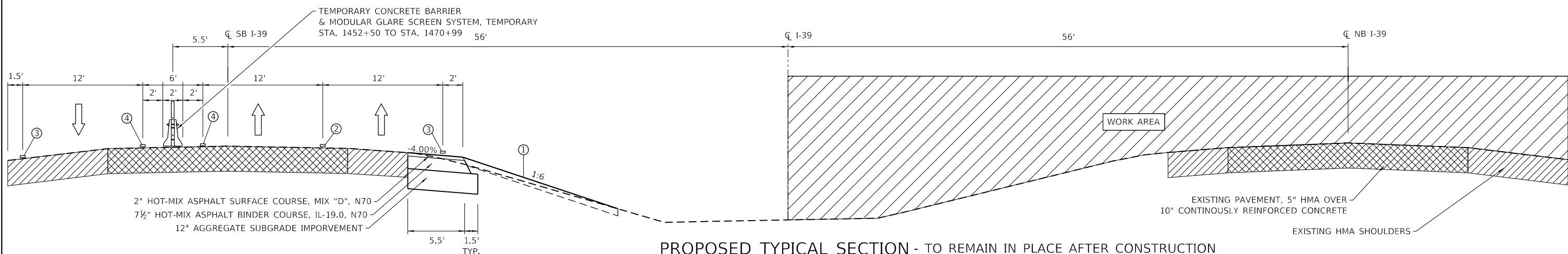
TYPICAL SECTIONS

SCALE SHEET 1 OF 3 SHEETS STA. TO STA.

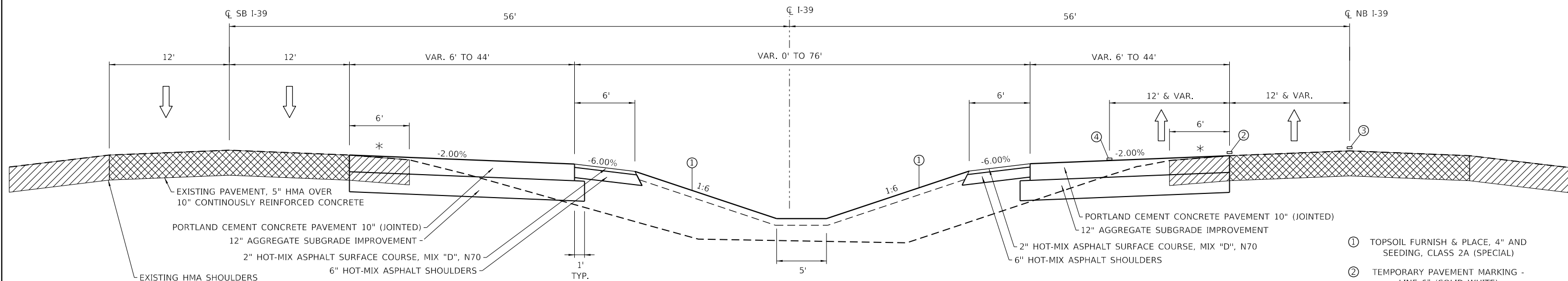
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 6 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



PROPOSED TYPICAL SECTION - TO BE REMOVED AFTER CONSTRUCTION
 STA. 1468+50 TO STA. 1471+82



PROPOSED TYPICAL SECTION - TO REMAIN IN PLACE AFTER CONSTRUCTION
 STA. 1460+81 TO STA. 1468+50



PROPOSED TYPICAL SECTION - TO REMAIN IN PLACE AFTER CONSTRUCTION
 STA. 1449+85 TO STA. 1460+81

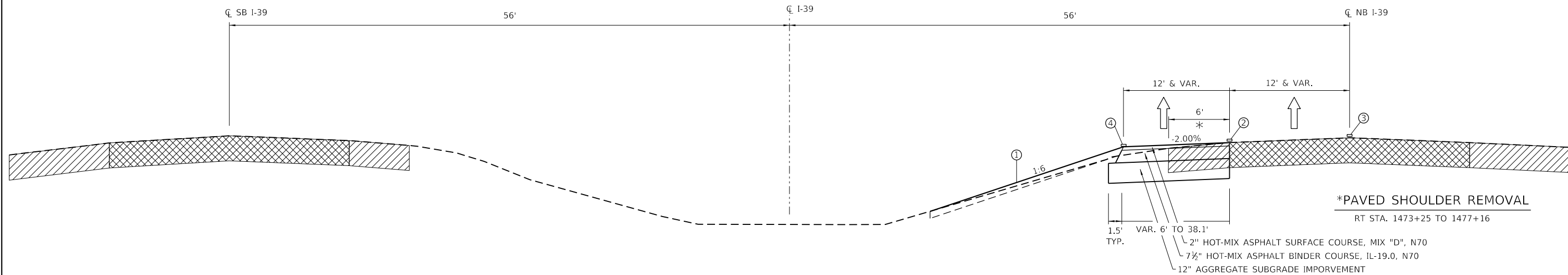
- ① TOPSOIL FURNISH & PLACE, 4" AND SEEDING, CLASS 2A (SPECIAL)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

***PAVED SHOULDER REMOVAL**
 RT STA. 1449+85 TO STA. 1460+00
 LT STA. 1449+85 TO STA. 1460+81
 LT & RT STA. 1454+50 TO STA. 1455+15

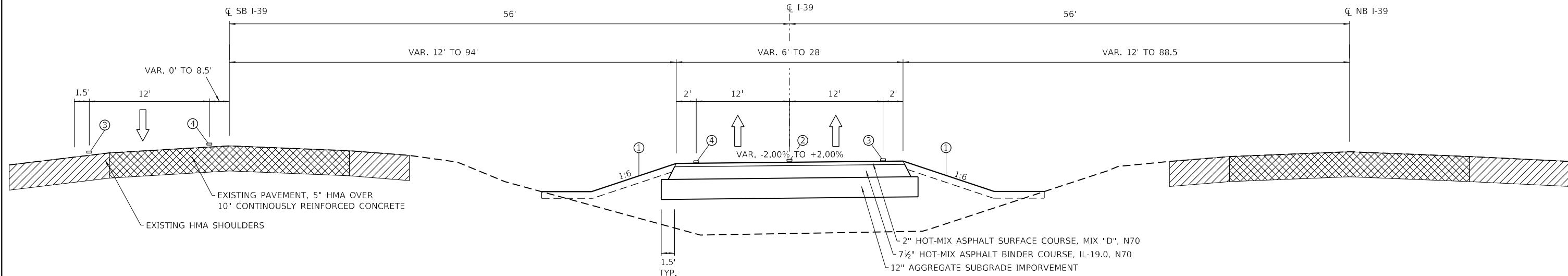
HMA SURFACE AND BINDER RATE OF APPLICATION: 112 LBS/ SQ YD/ IN

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| | | | | | | | | | | | | |
|--|-----------------------------|----------------|-----------------|---|-------------------------|--|--|---------------------------|--------------------------|---------------|-------------------|---------------|
| | USER NAME = lukan | DESIGNED - LGN | REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL SECTIONS | | | F.A.I. RTE. = 39 | SECTION = (141-1HB-2)BRR | COUNTY = OGLE | TOTAL SHEETS = 70 | SHEET NO. = 7 |
| | PLOT SCALE = 10.0000" / in. | CHECKED - GFS | REVISED - _____ | | | | | CONTRACT NO. 64M77 | | | | |
| | PLOT DATE = 6/21/2018 | DATE = 6/20/18 | REVISED - _____ | | | | | ILLINOIS FED. AID PROJECT | | | | |



PROPOSED TYPICAL SECTION - TO BE REMOVED AFTER CONSTRUCTION
 STA. 1474+77 TO STA. 1477+16



PROPOSED TYPICAL SECTION - TO BE REMOVED AFTER CONSTRUCTION
 STA. 1471+82 TO STA. 1474+77

- ① TOPSOIL FURNISH & PLACE, 4" AND SEEDING, CLASS 2A (SPECIAL)
- ② TEMPORARY PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ③ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- ④ TEMPORARY PAVEMENT MARKING - LINE 4" (SOLID YELLOW)

HMA SURFACE AND BINDER RATE OF APPLICATION: 112 LBS/ SQ YD/ IN

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| | | |
|-----------------------------|-------------------|-------------------|
| USER NAME = luku | DESIGNED - LGN | REVISED - _____ |
| DRAWN - TBS | REVISIION - _____ | |
| PLOT SCALE = 10.0000' / in. | CHECKED - GFS | REVISIION - _____ |
| PLOT DATE = 6/21/2018 | DATE - 6/20/18 | REVISIION - _____ |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | |
|--------------------------|---------------------|
| TYPICAL SECTIONS | |
| SCALE _____ | SHEET 3 OF 3 SHEETS |
| STA. _____ TO STA. _____ | |

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-IHB-2)BRR | OGLE | 70 | 8 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

| A | B | C | D | E | F | |
|----------|--------------------|--|--|---|------------|--|
| LOCATION | EXCAVATION (CY) | PAVED SHOULDER REMOVAL 44004250 (CY) | (A-B) EARTH EXCAVATION (SPECIAL) X2020410* (CY) | (0.75 X C) EXCAVATION ADJUSTED FOR SHRINKAGE 25% | EMBANKMENT | (E-D) FURNISHED EXCAVATION 20400800 (CY) |
| I-39 | 2,710 | 2,165 | 545 | 409 | 1,905 | 1,496 |

21101600 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH

| STATION | SQ YD | REMARKS |
|---------------------------|---------------|---------|
| LT & RT 1449+85 - 1454+35 | 2,420 | |
| LT & RT 1455+75 - 1460+24 | 2,251 | |
| LT 1460+24 - LT 1470+00 | 3,521 | |
| LT & RT 1470+00 - 1475+00 | 3,806 | |
| RT 1475+00 - 1476+50 | 539 | |
| PROJECT TOTAL | 12,537 | |

25000210 SEEDING, CLASS 2 A

| STATION | ACRE | REMARKS |
|---------------------------|-------------|---------|
| LT & RT 1449+85 - 1454+35 | 0.50 | |
| LT & RT 1455+75 - 1460+24 | 0.47 | |
| LT 1460+24 - LT 1470+00 | 0.73 | |
| LT & RT 1470+00 - 1475+00 | 0.79 | |
| RT 1475+00 - 1476+50 | 0.11 | |
| PROJECT TOTAL | 2.75 | |

25000750 MOWING

| STATION | ACRE | REMARKS |
|---------------------------|-------------|---------|
| LT & RT 1449+85 - 1454+35 | 0.50 | |
| LT & RT 1455+75 - 1460+24 | 0.47 | |
| LT 1460+24 - LT 1470+00 | 0.73 | |
| LT & RT 1470+00 - 1475+00 | 0.79 | |
| RT 1475+00 - 1476+50 | 0.11 | |
| PROJECT TOTAL | 2.75 | |

25100125 MULCH, METHOD 3

| STATION | ACRE | REMARKS |
|---------------------------|-------------|---------|
| LT & RT 1449+85 - 1454+35 | 0.50 | |
| LT & RT 1455+75 - 1460+24 | 0.47 | |
| LT 1460+24 - LT 1470+00 | 0.73 | |
| LT & RT 1470+00 - 1475+00 | 0.79 | |
| RT 1475+00 - 1476+50 | 0.11 | |
| PROJECT TOTAL | 2.75 | |

28000250 TEMPORARY EROSION CONTROL SEEDING

| STATION | POUND | REMARKS |
|---------------------------|------------|---------------------------------|
| | | 2 APPLICATIONS @ 100 LBS / ACRE |
| LT & RT 1449+85 - 1454+35 | 100 | |
| LT & RT 1455+75 - 1460+24 | 93 | |
| LT 1460+24 - LT 1470+00 | 145 | |
| LT & RT 1470+00 - 1475+00 | 157 | |
| RT 1475+00 - 1476+50 | 22 | |
| PROJECT TOTAL | 518 | |

28000305 TEMPORARY DITCH CHECKS

| STATION | FOOT | REMARKS |
|----------------------|------------|---------|
| 1450+00 | 12 | |
| 1450+50 | 12 | |
| 1451+00 | 12 | |
| 1451+50 | 12 | |
| 1452+00 | 12 | |
| 1457+00 | 12 | |
| 1457+50 | 12 | |
| 1458+00 | 12 | |
| 1458+50 | 12 | |
| 1459+50 | 12 | |
| 1460+00 | 12 | |
| 1460+50 | 12 | |
| 1469+50 | 12 | |
| 1470+00 | 12 | |
| 1470+50 | 12 | |
| 1471+00 | 12 | |
| RT 1472+00 | 12 | |
| RT 1472+50 | 12 | |
| LT 1473+00 | 12 | |
| LT 1473+50 | 12 | |
| LT 1474+00 | 12 | |
| LT 1474+50 | 12 | |
| RT 1475+00 | 12 | |
| PROJECT TOTAL | 276 | |

28000400 PERIMETER EROSION BARRIER

| STATION | FOOT | REMARKS |
|----------------------|------------|---------|
| 1460+81 - 1468+50 | 769 | |
| PROJECT TOTAL | 769 | |

28000500 INLET AND PIPE PROTECTION

| STATION | EACH | REMARKS |
|----------------------|----------|---------|
| 1452+50 | 1 | |
| 1453+98 | 1 | |
| 1458+99 | 1 | |
| 1472+50 | 1 | |
| 1474+00 | 1 | |
| PROJECT TOTAL | 5 | |

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

| STATION | SQ YD | REMARKS |
|---------------------------|--------------|---------|
| LT & RT 1449+85 - 1450+81 | 4,784 | |
| LT 1460+81 - 1468+50 | 598 | |
| LT & RT 1468+50 - 1477+16 | 2,049 | |
| PROJECT TOTAL | 7,431 | |

40600275 BITUMINOUS MATERIALS (PRIME COAT)

| STATION | POUND | REMARKS |
|-------------------------|--------------|-------------------------|
| | | 0.25 LB/SF 1 APP ON AGG |
| LT 1460+81 - 1468+50 | 1,057 | |
| LT 1468+50 - RT 1477+16 | 4,201 | |
| RT 1449+85 - 1454+35 | 562 | |
| LT 1449+87 - 1454+35 | 585 | |
| LT 1455+75 - 1460+81 | 657 | |
| RT 1455+75 - 1460+24 | 570 | |
| PROJECT TOTAL | 7,632 | |

40600290 BITUMINOUS MATERIALS (TACK COAT)

| STATION | POUND | REMARKS |
|-------------------------|------------|--------------------------|
| | | 0.025 LB/SF 1 APP ON BIT |
| RT 1449+85 - 1454+35 | 56 | |
| LT 1449+87 - 1454+35 | 58 | |
| LT 1455+75 - 1460+81 | 66 | |
| RT 1455+75 - 1460+24 | 57 | |
| LT 1460+81 - 1468+50 | 106 | |
| LT 1468+50 - RT 1477+16 | 420 | |
| PROJECT TOTAL | 763 | |

40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

| STATION | TON | REMARKS |
|-------------------------|------------|----------------|
| LT 1460+81 - 1468+50 | 197 | 7 1/2" 2 LIFTS |
| LT 1468+50 - RT 1477+16 | 784 | 7 1/2" 2 LIFTS |
| PROJECT TOTAL | 981 | |

40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

| STATION | TON | REMARKS |
|-------------------------|------------|---------|
| RT 1449+85 - 1454+35 | 28 | 2" |
| LT 1449+87 - 1454+35 | 29 | 2" |
| LT 1455+75 - 1460+81 | 33 | 2" |
| RT 1455+75 - 1460+24 | 28 | 2" |
| LT 1460+81 - 1468+50 | 53 | 2" |
| LT 1468+50 - RT 1477+16 | 209 | 2" |
| PROJECT TOTAL | 380 | |

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO *3\1378017_ScheduleOfQuantities.dgn

SCHEDULE OF QUANTITIES

| STATION | SQ YD | REMARKS |
|---------------------------|--------------|---------|
| LT & RT 1449+85 - 1450+81 | 4,494 | |
| PROJECT TOTAL | 4,494 | |

| STATION | SQ YD | REMARKS |
|---------------------------|--------------|-------------------|
| RT 1449+85 - 1460+00 | 677 | EX. CROSSOVER 15" |
| LT 1449+85 - 1460+81 | 731 | |
| LT & RT 1454+50 - 1455+15 | 246 | |
| LT 1468+50 - 1472+25 | 250 | |
| RT 1473+25 - 1477+16 | 261 | |
| PROJECT TOTAL | 2,165 | |

| STATION | SQ YD | REMARKS |
|----------------------|--------------|-------------------------------|
| RT 1449+85 - 1454+35 | 250 | HOT-MIX ASPHALT SHOULDERS, 6" |
| LT 1449+87 - 1454+35 | 260 | |
| LT 1455+75 - 1460+81 | 292 | |
| RT 1455+75 - 1460+24 | 253 | |
| PROJECT TOTAL | 1,055 | |

| STATION | FOOT | REMARKS |
|--------------------------------|------------|--|
| 7' RT 1471+51 - 29' LT 1472+50 | 104 | PIPE CULVERTS, CLASS A, TYPE 1 18" (TEMPORARY) |
| PROJECT TOTAL | 104 | |

| STATION | EACH | REMARKS |
|----------------------|----------|---|
| 1452+50 | 1 | FLUSH INLET BOX FOR MEDIAN, STANDARD 542546 |
| PROJECT TOTAL | 1 | |

| STATION | FOOT | REMARKS |
|----------------------|------------|-----------------|
| 27.4' LT 1458+98 | 0.6 | CONCRETE COLLAR |
| PROJECT TOTAL | 0.6 | |

| STATION | FOOT | REMARKS |
|----------------------|-----------|------------------------------------|
| 1458+98 | 16 | PIPE CULVERTS, CLASS A, TYPE 1 24" |
| PROJECT TOTAL | 16 | |

| STATION | FOOT | REMARKS |
|----------------------|------------|-----------------------------------|
| 1452+50 - 1453+95 | 145 | STORM SEWERS, CLASS A, TYPE 2 24" |
| PROJECT TOTAL | 145 | |

| STATION | FOOT | REMARKS |
|----------------------|-----------|---------------------|
| LT 1454+00 | 23 | PIPE UNDERDRAINS 4" |
| RT 1454+00 | 20 | |
| RT 1458+95 | 6 | |
| LT 1469+98 | 13 | |
| RT 1474+99 | 12 | |
| PROJECT TOTAL | 74 | |

| STATION | EACH | REMARKS |
|----------------------|----------|---|
| 1454+00 | 1 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID |
| PROJECT TOTAL | 1 | |

| STATION | FOOT | REMARKS |
|----------------------|--------------|--|
| LT 1452+50 - 1458+52 | 600 | MODULAR GLARE SCREEN SYSTEM, TEMPORARY |
| LT 1458+52 - 1468+96 | 1,050 | |
| LT 1468+96 - 1471+99 | 300 | |
| PROJECT TOTAL | 1,950 | |

| STATION | SQ YD | REMARKS |
|-------------------------------|-----------|-----------------|
| 5' LT 1463+68 - 4' LT 1464+01 | 18 | ATTENUATOR BASE |
| PROJECT TOTAL | 18 | |

| STATION | FOOT | REMARKS |
|-------------------------|---------------|--------------------------------------|
| RT 1441+05 - LT 1477+16 | 3,623 | TEMPORARY PAVEMENT MARKING - LINE 4" |
| RT 1441+05 - LT 1477+16 | 3,621 | |
| RT 1448+45 - RT 1478+55 | 3,009 | |
| RT 1448+45 - RT 1478+55 | 3,009 | |
| LT 1449+87 - LT 1482+00 | 3,314 | |
| LT 1449+87 - LT 1497+00 | 4,814 | |
| PROJECT TOTAL | 21,390 | |

| STATION | FOOT | REMARKS |
|-------------------------|--------------|--------------------------------------|
| RT 1441+05 - LT 1477+16 | 3,622 | TEMPORARY PAVEMENT MARKING - LINE 6" |
| RT 1448+45 - RT 1478+55 | 3,009 | |
| PROJECT TOTAL | 6,631 | |

| STATION | FOOT | REMARKS |
|----------------------|--------------|----------------------------|
| LT 1452+50 - 1458+52 | 600 | TEMPORARY CONCRETE BARRIER |
| LT 1458+52 - 1468+96 | 1,050 | |
| LT 1468+96 - 1471+99 | 300 | |
| PROJECT TOTAL | 1,950 | |

| STATION | FOOT | REMARKS |
|----------------------|---------------|---|
| RT 1441+00 - 1478+55 | 3,745 | POLYUREA PAVEMENT MARKING TYPE II - LINE 4" |
| RT 1441+00 - 1478+55 | 3,745 | |
| LT 1449+87 - 1497+00 | 4,714 | |
| LT 1449+87 - 1497+00 | 4,714 | |
| PROJECT TOTAL | 16,918 | |

| STATION | FOOT | REMARKS |
|----------------------|--------------|---|
| RT 1441+00 - 1478+55 | 936 | POLYUREA PAVEMENT MARKING TYPE II - LINE 6" |
| LT 1449+87 - 1497+00 | 1,179 | |
| PROJECT TOTAL | 2,115 | |

| STATION | FOOT | REMARKS |
|----------------------|------------|--------------------------------------|
| 1454+02 - 1456+93 | 291 | SLOTTED DRAIN 12" WITH VARIABLE SLOT |
| PROJECT TOTAL | 291 | |

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_ScheduleOfQuantities.dgn

SCHEDULE OF QUANTITIES

| X0301993 REMOVE AND REINSTALL CONCRETE HEADWALL FOR PIPE DRAIN | | |
|--|----------|---------|
| STATION | EACH | REMARKS |
| RT 1458+95 | 1 | |
| LT 1469+98 | 1 | |
| LT 1474+99 | 1 | |
| PROJECT TOTAL | 3 | |

| X0484300 MEDIAN INLET BOX REMOVAL | | |
|-----------------------------------|----------|---------|
| STATION | EACH | REMARKS |
| 1454+00 | 1 | |
| PROJECT TOTAL | 1 | |

| X7015005* CHANGEABLE MESSAGE SIGN | | |
|-----------------------------------|------------|----------------------------|
| STATION | CAL DAY | REMARKS |
| NB LANES | 14 | BEFORE CONSTRUCTION STARTS |
| SB LANES | 14 | BEFORE CONSTRUCTION STARTS |
| NB LANES | 90 | RTTC SENSOR |
| SB LANES | 90 | RTTC SENSOR |
| PROJECT TOTAL | 208 | |

| X0322392 BEVELED PIPE GUARD | | |
|-----------------------------|----------|----------|
| STATION | EACH | REMARKS |
| 1456+93 | 1 | 12" DIA. |
| PROJECT TOTAL | 1 | |

| X4400110 TEMPORARY PAVEMENT REMOVAL | | |
|-------------------------------------|--------------|---------|
| STATION | SQ YD | REMARKS |
| LT 1469+00 - RT 1476+39 | 1,121 | |
| PROJECT TOTAL | 1,121 | |

| X0325345 REALIGN EXISTING ATTENUATORS | | |
|---------------------------------------|-----------|---------------------|
| STATION | SQ YD | REMARKS |
| 5' LT 1463+68 - 1' RT 1464+01 | 27 | TEMPORARY ALIGNMENT |
| 7' RT 1463+70 - 1' RT 1464+01 | 27 | EXISTING ALIGNMENT |
| PROJECT TOTAL | 54 | |

| X6013700 PIPE UNDERDRAIN REMOVAL (SPECIAL) | | |
|--|-----------|---------|
| STATION | FOOT | REMARKS |
| RT 1475+00 | 12 | |
| PROJECT TOTAL | 12 | |

| X0327640* REAL-TIME TRAFFIC CONTROL BASE UNIT | | |
|---|----------|---------|
| STATION | CAL MO | REMARKS |
| ENTIRE PROJECT | 3 | |
| PROJECT TOTAL | 3 | |

| X6015000 REMOVE CONCRETE HEADWALLS FOR PIPE DRAIN | | |
|---|----------|---------|
| STATION | EACH | REMARKS |
| LT 1454+00 | 1 | |
| RT 1454+00 | 1 | |
| PROJECT TOTAL | 2 | |

| X0327641* REAL-TIME TRAFFIC CONTROL SENSOR UNIT | | |
|---|----------|---------|
| STATION | CAL MO | REMARKS |
| NB LANES | 3 | |
| SB LANES | 3 | |
| PROJECT TOTAL | 6 | |

| X6023840 REMOVE AND RELOCATE INLETS | | |
|-------------------------------------|----------|---------------------|
| STATION | EACH | REMARKS |
| LT 1458+98 | 1 | 11.4' LT TO 1.2' RT |
| PROJECT TOTAL | 1 | |

| X0327980* PAVEMENT MARKING REMOVAL - WATER BLASTING | | |
|---|---------------|---------------------------|
| STATION | SQ FT | REMARKS |
| RT 1441+00 - 1455+00 | 458 | EX PAVEMENT MARKING REM |
| RT 1441+00 - 1455+00 | 458 | EX PAVEMENT MARKING REM |
| LT 1455+00 - 1497+00 | 1,386 | EX PAVEMENT MARKING REM |
| LT 1455+00 - 1497+00 | 1,386 | EX PAVEMENT MARKING REM |
| RT 1441+00 - 1455+00 | 174 | EX PAVEMENT MARKING REM |
| LT 1455+00 - 1497+00 | 525 | EX PAVEMENT MARKING REM |
| RT 1441+05 - LT 1477+16 | 1,196 | TEMP PAVEMENT MARKING REM |
| RT 1441+05 - LT 1477+16 | 1,195 | TEMP PAVEMENT MARKING REM |
| RT 1448+45 - RT 1478+55 | 993 | TEMP PAVEMENT MARKING REM |
| RT 1448+45 - RT 1478+55 | 993 | TEMP PAVEMENT MARKING REM |
| LT 1449+87 - LT 1428+00 | 1,094 | TEMP PAVEMENT MARKING REM |
| LT 1449+87 - LT 1497+00 | 1,598 | TEMP PAVEMENT MARKING REM |
| RT 1441+05 - LT 1477+16 | 1,811 | TEMP PAVEMENT MARKING REM |
| RT 1448+45 - RT 1478+55 | 1,505 | TEMP PAVEMENT MARKING REM |
| PROJECT TOTAL | 14,762 | |

| X6024875 TEMPORARY INLET | | |
|--------------------------|----------|---------|
| STATION | EACH | REMARKS |
| 29' LT 1472+50 | 1 | |
| PROJECT TOTAL | 1 | |

| X6431110 REMOVE ATTENUATOR BASE | | |
|---------------------------------|----------|-----------------------|
| STATION | EACH | REMARKS |
| 5' LT 1463+68 - 4' RT 1464+01 | 1 | REMOVE TEMPORARY BASE |
| PROJECT TOTAL | 1 | |

FILE = S:\PROJECTS\2017\1378017_PTB_181-181-8\DESIGN\TRANS\WO #3\1378017_ScheduleOfQuantities.dgn



| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
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| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

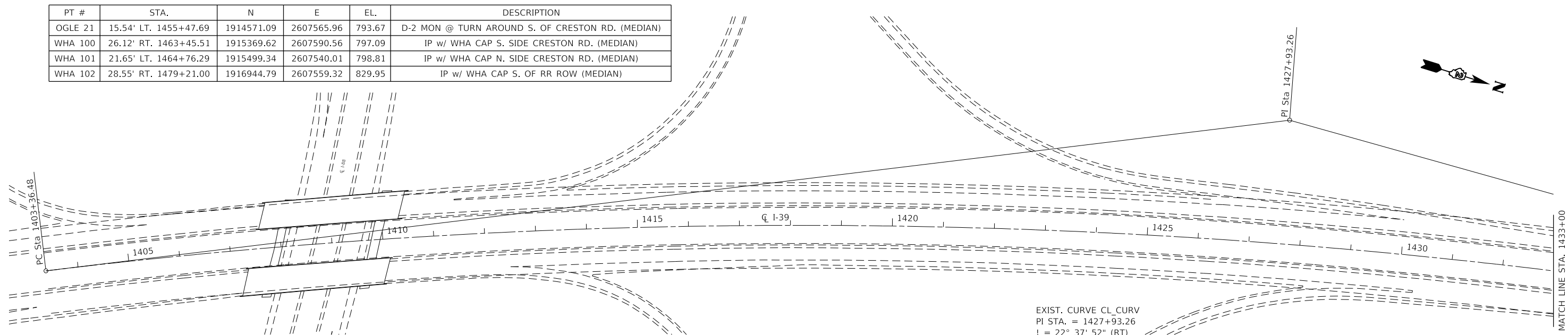
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| SCHEDULE OF QUANTITIES | | | |
|------------------------|---------------------|------|---------|
| SCALE | SHEET 3 OF 3 SHEETS | STA. | TO STA. |
| | | | |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 11 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

HORIZONTAL CONTROL

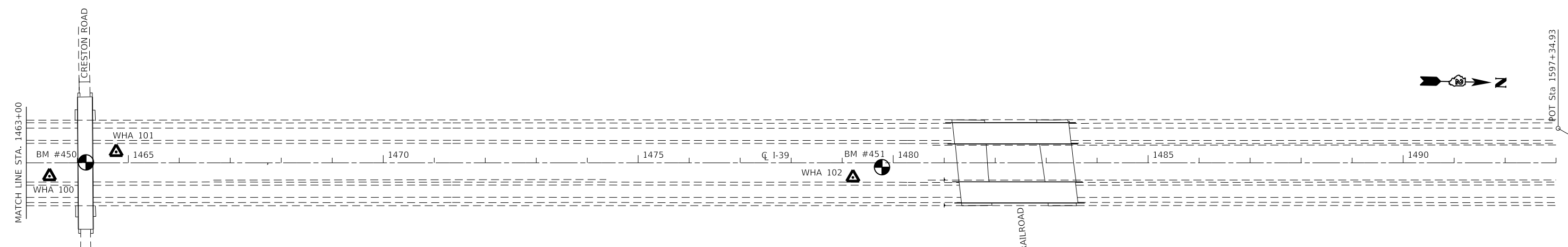
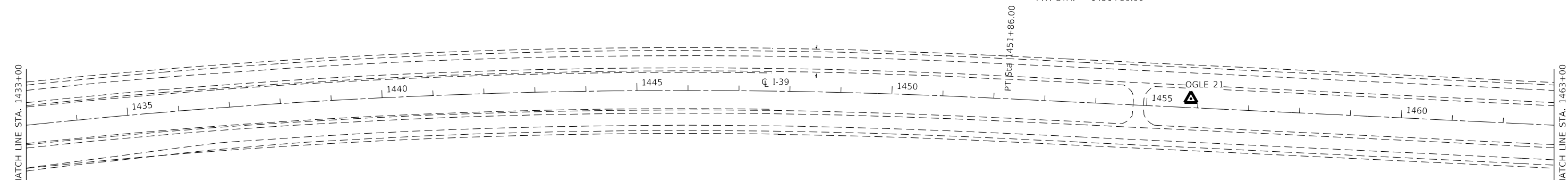
| PT # | STA. | N | E | EL. | DESCRIPTION |
|---------|-----------------------|------------|------------|--------|--|
| OGLE 21 | 15.54' LT. 1455+47.69 | 1914571.09 | 2607565.96 | 793.67 | D-2 MON @ TURN AROUND S. OF CRESTON RD. (MEDIAN) |
| WHA 100 | 26.12' RT. 1463+45.51 | 1915369.62 | 2607590.56 | 797.09 | IP w/ WHA CAP S. SIDE CRESTON RD. (MEDIAN) |
| WHA 101 | 21.65' LT. 1464+76.29 | 1915499.34 | 2607540.01 | 798.81 | IP w/ WHA CAP N. SIDE CRESTON RD. (MEDIAN) |
| WHA 102 | 28.55' RT. 1479+21.00 | 1916944.79 | 2607559.32 | 829.95 | IP w/ WHA CAP S. OF RR ROW (MEDIAN) |



BENCHMARKS

| BM # | STA. | DESCRIPTION | ELEV. |
|------|----------------------|---|--------|
| 450 | 1.02' LT. 1464+16.99 | "□" ON C PIER @ CRESTON RD. | 801.67 |
| 451 | 8.45' RT. 1479+78.05 | S/W BOLT ON N. BOUND SIGN BASE C MEDIAN | 832.91 |

EXIST. CURVE CL_CURV
 PI STA. = 1427+93.26
 I = 22° 37' 52" (RT)
 D = 0° 28' 00"
 R = 12,277.70'
 T = 2,456.79'
 L = 4,849.52'
 E = 243.39'
 e = _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 1403+36.48
 P.T. STA. = 1451+86.00



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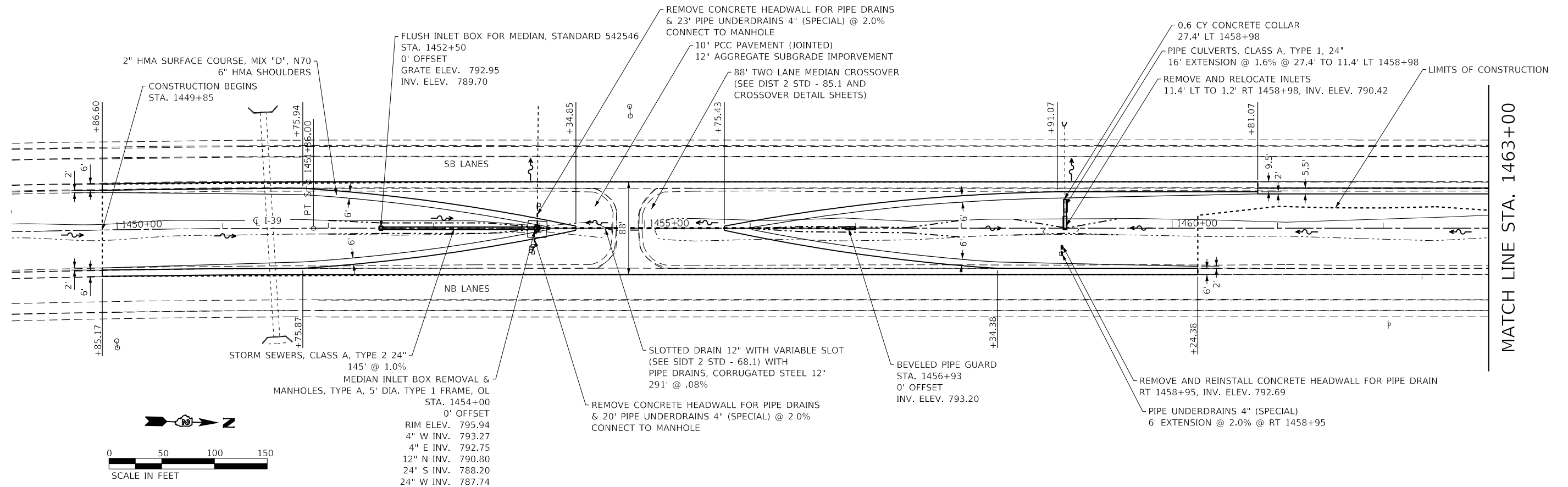


| | | |
|-------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| CHECKED - GFS | REVISED - | |
| DATE - 6/20/18 | REVISED - | |

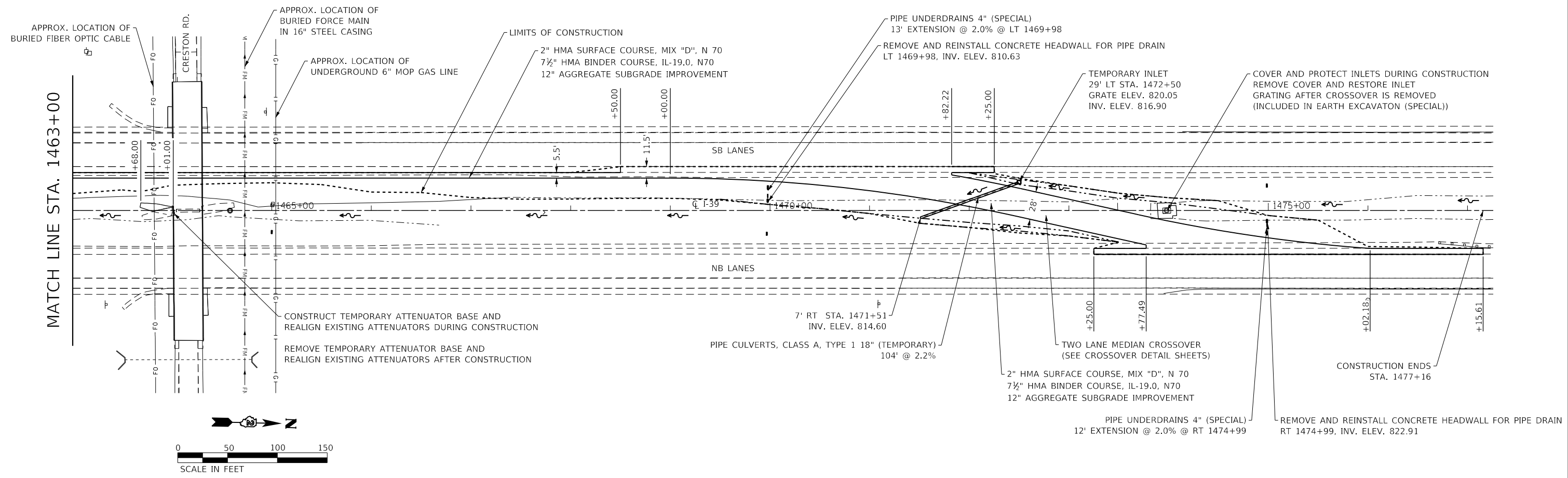
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, CONTROL & BENCHMARKS
 SCALE 1" = 200' SHEET 1 OF 1 SHEETS STA. 1403+36.48 TO STA. 1597+34.93

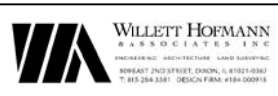
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 12 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCH LINE STA. 1463+00



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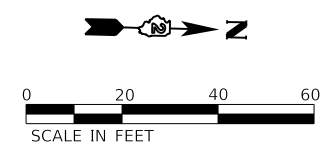
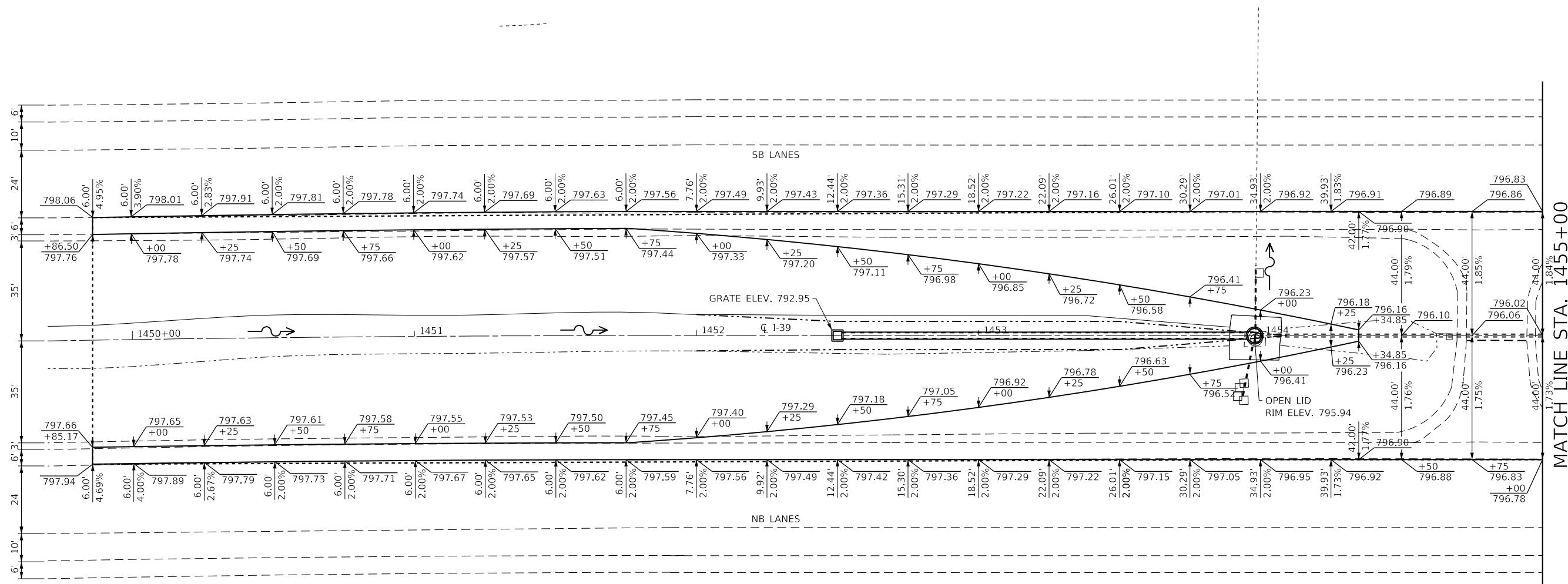
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|-------------------|----------------|-----------|
| USER NAME = lukan | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| CHECKED - GFS | REVISED - | |
| DATE - 6/20/18 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | | |
|-----------------|--|---------------------|--|--------------|-----------------|
| SCALE 1" = 100' | | SHEET 1 OF 1 SHEETS | | STA. 1449+00 | TO STA. 1477+16 |
| | | PLAN SHEET | | | |

| | | | | |
|---------------------------|------------------------|-------------|-----------------|--------------|
| F.A.I. RTE. 39 | SECTION (141-IHB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 13 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_Crossover-DetailSheets.dgn



| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| PLOT SCALE = 480.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

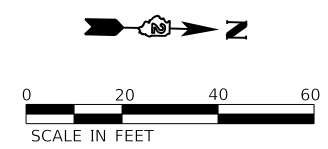
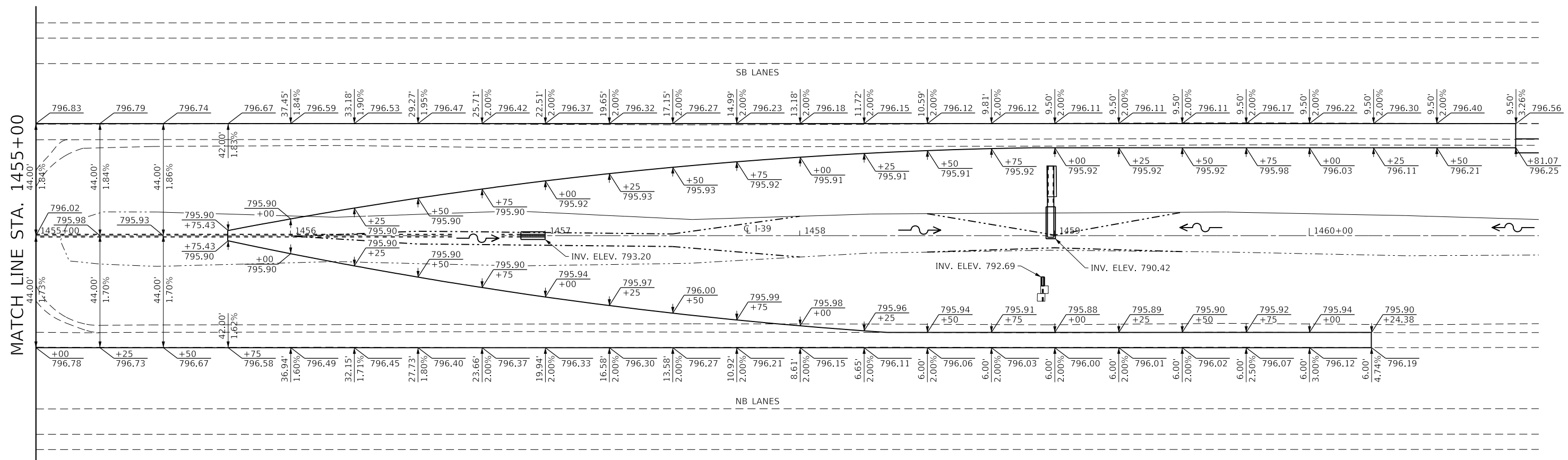
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSSOVER DETAILS

SCALE 1" = 40" SHEET 1 OF 4 SHEETS STA. 1449+70 TO STA. 1455+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 14 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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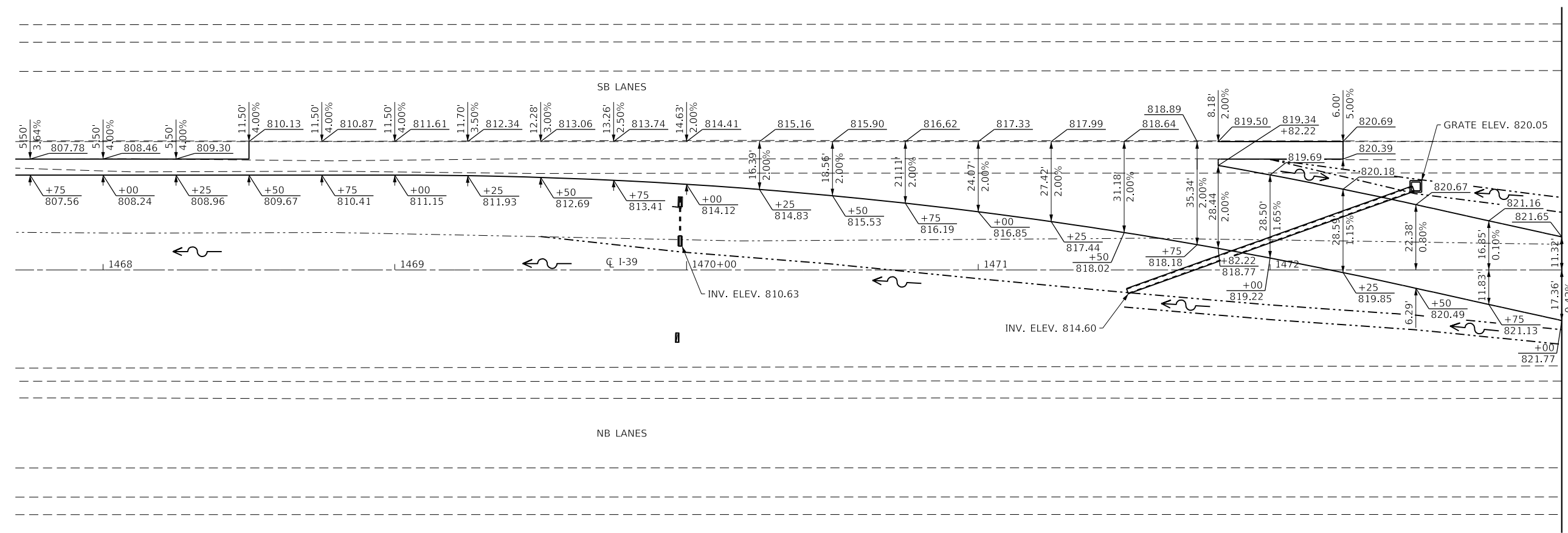
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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| PLOT SCALE = 480.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

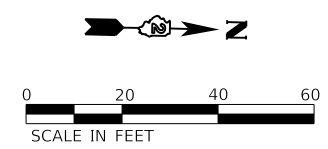
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|--------------------------|---------|-------------|------------------------------|
| CROSSOVER DETAILS | | | |
| SCALE 1" = 40' | SHEET 2 | OF 4 SHEETS | STA. 1455+00 TO STA. 1460+90 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 15 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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MATCH LINE STA. 1473+00



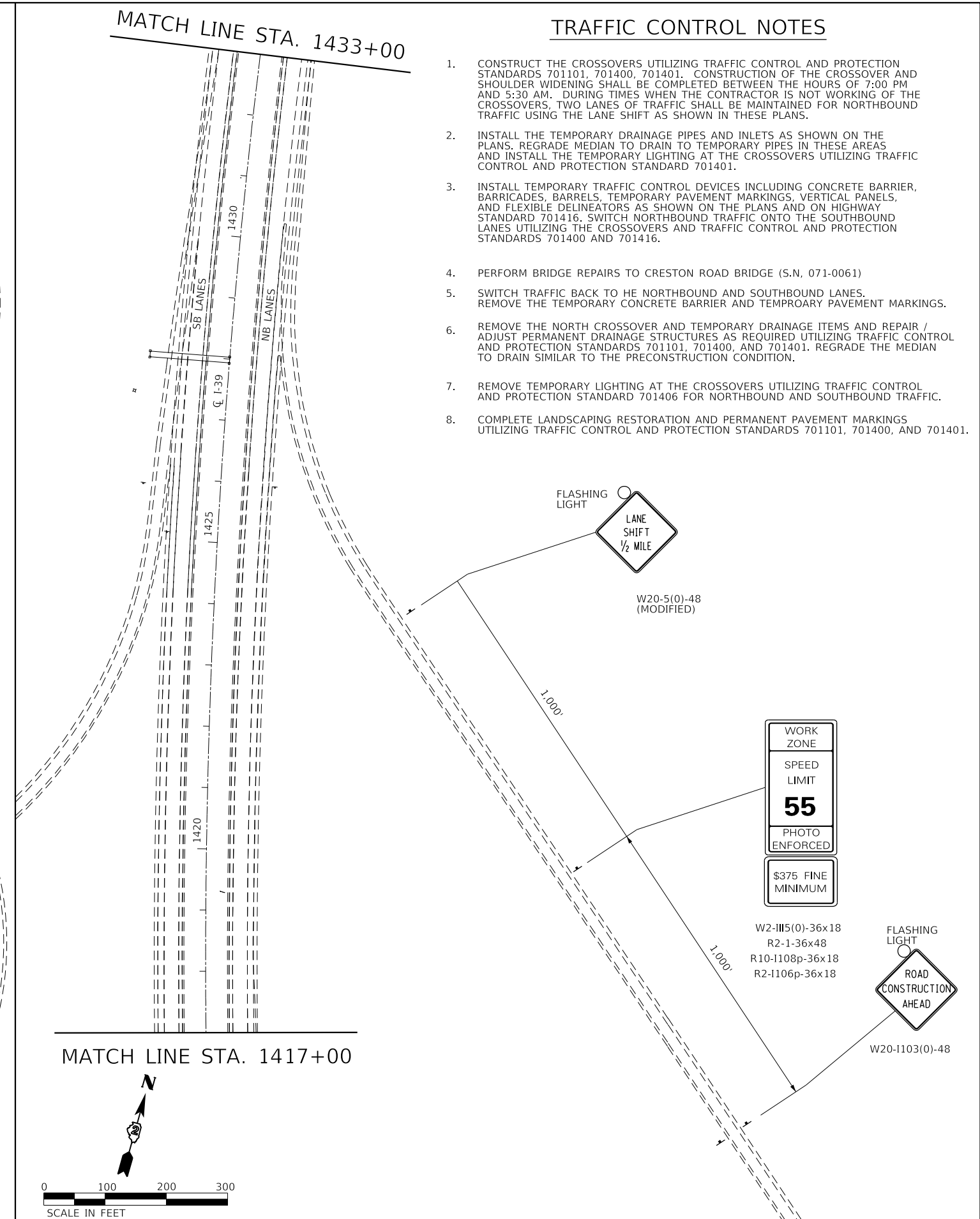
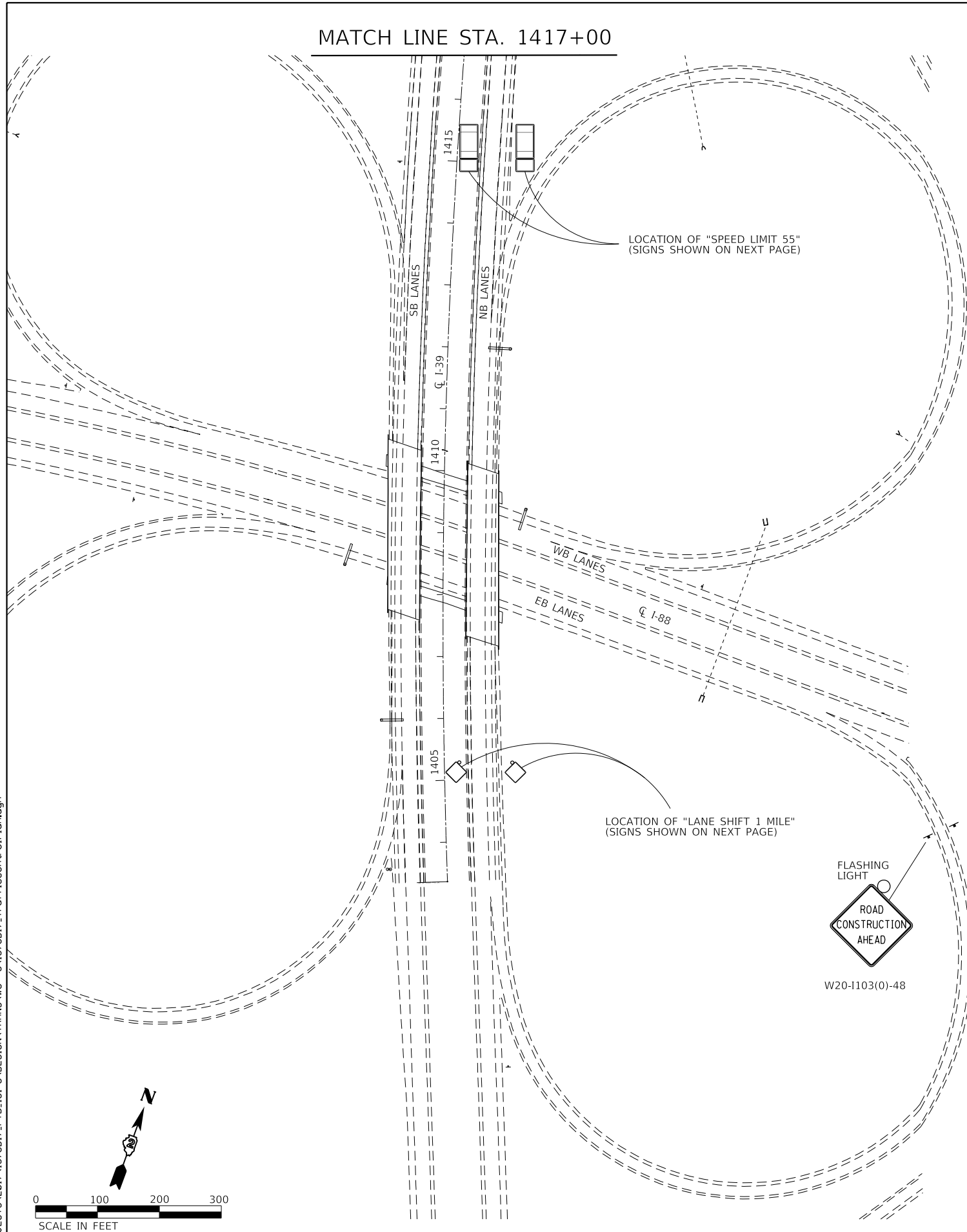
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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| PLOT SCALE = 480.0000' / Ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSSOVER DETAILS

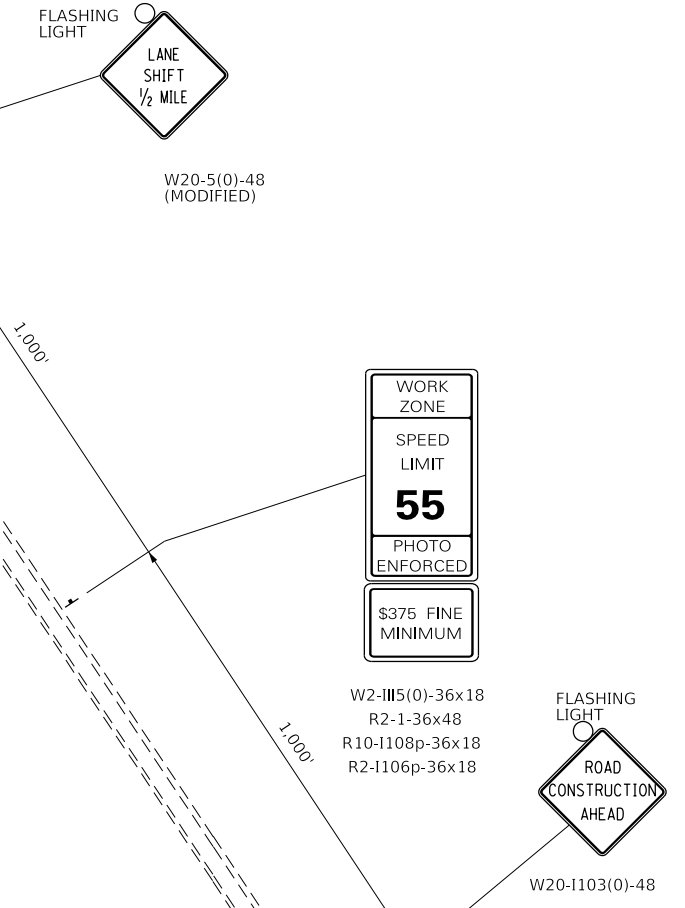
SCALE 1" = 40' SHEET 3 OF 4 SHEETS STA. 1467+70 TO STA. 1473+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 16 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

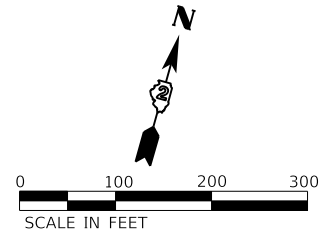
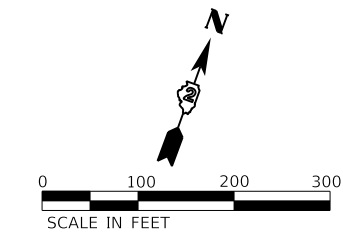


TRAFFIC CONTROL NOTES

1. CONSTRUCT THE CROSSOVERS UTILIZING TRAFFIC CONTROL AND PROTECTION STANDARDS 701101, 701400, 701401. CONSTRUCTION OF THE CROSSOVER AND SHOULDER WIDENING SHALL BE COMPLETED BETWEEN THE HOURS OF 7:00 PM AND 5:30 AM. DURING TIMES WHEN THE CONTRACTOR IS NOT WORKING OF THE CROSSOVERS, TWO LANES OF TRAFFIC SHALL BE MAINTAINED FOR NORTHBOUND TRAFFIC USING THE LANE SHIFT AS SHOWN IN THESE PLANS.
2. INSTALL THE TEMPORARY DRAINAGE PIPES AND INLETS AS SHOWN ON THE PLANS. REGRADE MEDIAN TO DRAIN TO TEMPORARY PIPES IN THESE AREAS AND INSTALL THE TEMPORARY LIGHTING AT THE CROSSOVERS UTILIZING TRAFFIC CONTROL AND PROTECTION STANDARD 701401.
3. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING CONCRETE BARRIER, BARRICADES, BARRELS, TEMPORARY PAVEMENT MARKINGS, VERTICAL PANELS, AND FLEXIBLE DELINEATORS AS SHOWN ON THE PLANS AND ON HIGHWAY STANDARD 701416. SWITCH NORTHBOUND TRAFFIC ONTO THE SOUTHBOUND LANES UTILIZING THE CROSSOVERS AND TRAFFIC CONTROL AND PROTECTION STANDARDS 701400 AND 701416.
4. PERFORM BRIDGE REPAIRS TO CRESTON ROAD BRIDGE (S.N. 071-0061)
5. SWITCH TRAFFIC BACK TO THE NORTHBOUND AND SOUTHBOUND LANES. REMOVE THE TEMPORARY CONCRETE BARRIER AND TEMPORARY PAVEMENT MARKINGS.
6. REMOVE THE NORTH CROSSOVER AND TEMPORARY DRAINAGE ITEMS AND REPAIR / ADJUST PERMANENT DRAINAGE STRUCTURES AS REQUIRED UTILIZING TRAFFIC CONTROL AND PROTECTION STANDARDS 701101, 701400, AND 701401. REGRADE THE MEDIAN TO DRAIN SIMILAR TO THE PRECONSTRUCTION CONDITION.
7. REMOVE TEMPORARY LIGHTING AT THE CROSSOVERS UTILIZING TRAFFIC CONTROL AND PROTECTION STANDARD 701406 FOR NORTHBOUND AND SOUTHBOUND TRAFFIC.
8. COMPLETE LANDSCAPING RESTORATION AND PERMANENT PAVEMENT MARKINGS UTILIZING TRAFFIC CONTROL AND PROTECTION STANDARDS 701101, 701400, AND 701401.



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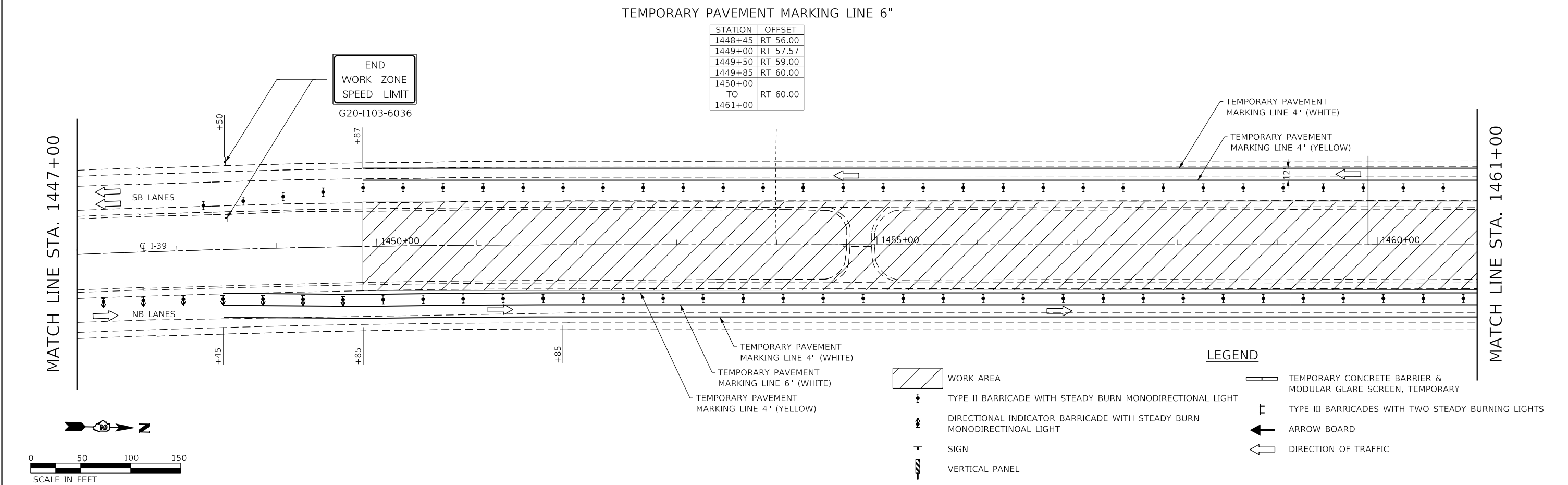
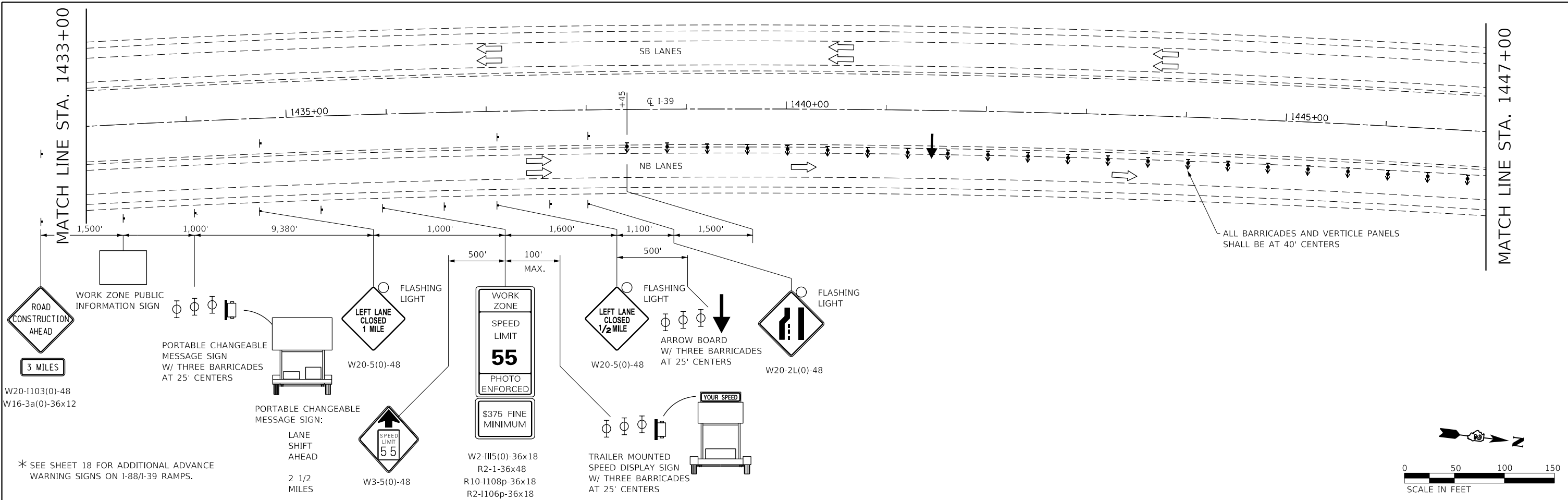
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| DRAWN - TBS | REVISIONS - | |
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| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
ADVANCE WARNING SIGNS**

SCALE 1" = 200' SHEET 1 OF 9 SHEETS STA. 1403+36.48 TO STA. 1433+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 18 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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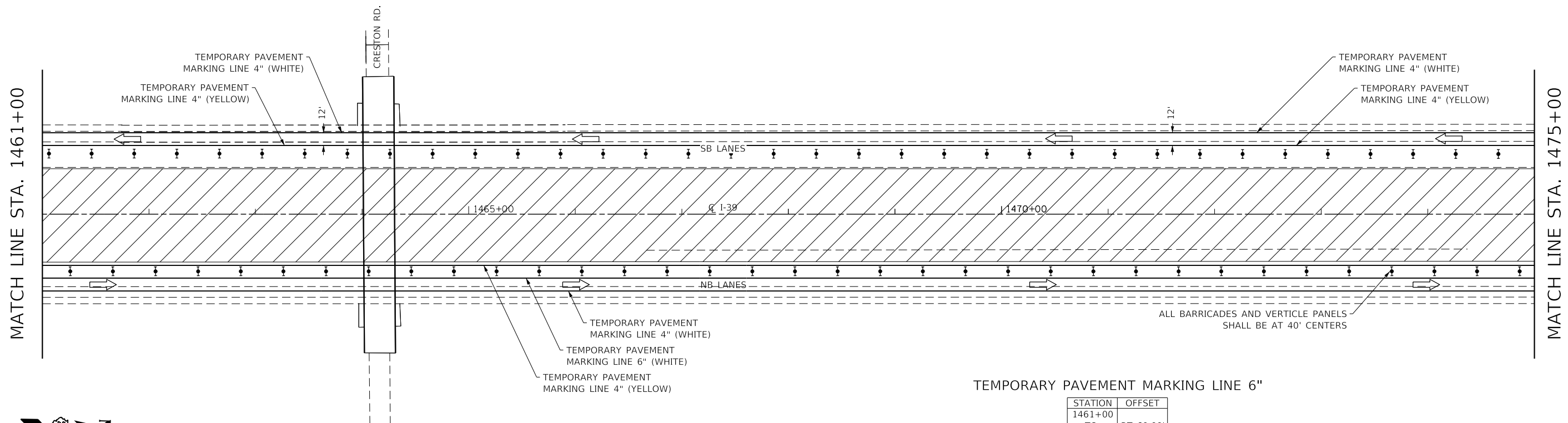
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| PLOT DATE = 6/20/2018 | CHECKED - GFS | REVISED - |
| | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
CROSSOVER CONSTRUCTION - WORKING HOURS**

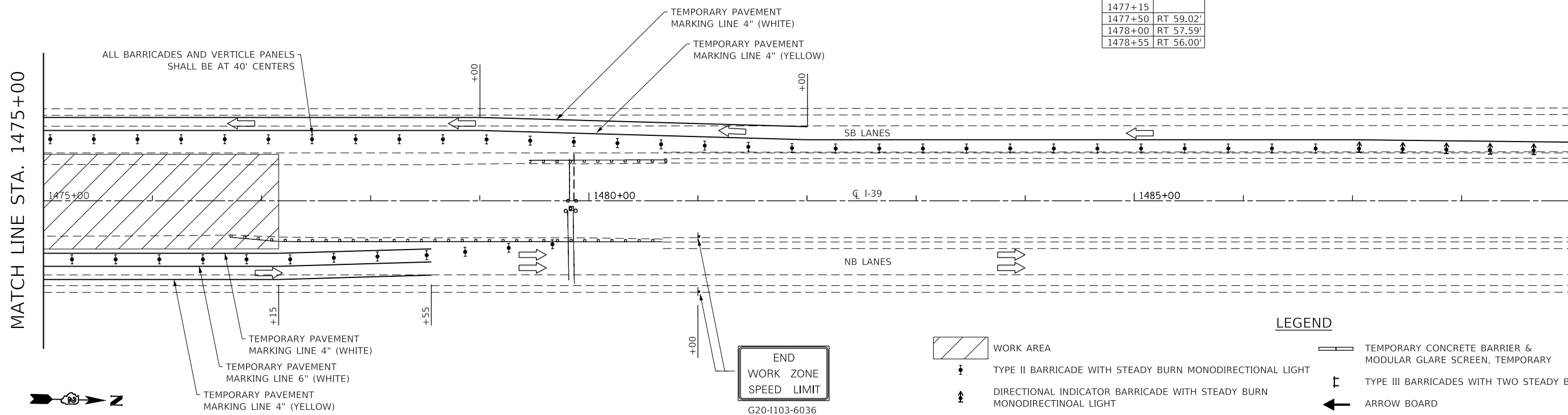
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|---------------------------|------------------------|-------------|--------------------|--------------|
| F.A.I. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 19 |
| | | | CONTRACT NO. 64M77 | |
| ILLINOIS FED. AID PROJECT | | | | |

SCALE 1" = 100' SHEET 2 OF 9 SHEETS STA. 1433+00 TO STA. 1461+00



| STATION | OFFSET |
|---------|-----------|
| 1461+00 | RT 60.00' |
| TO | |
| 1475+00 | |

TEMPORARY PAVEMENT MARKING LINE 6"



| STATION | OFFSET |
|---------|-----------|
| 1475+00 | RT 60.00' |
| TO | |
| 1477+15 | RT 59.02' |
| 1478+00 | RT 57.59' |
| 1478+55 | RT 56.00' |

TEMPORARY PAVEMENT MARKING LINE 6"

LEGEND

- WORK AREA
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIOAL LIGHT
- SIGN
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER & MODULAR GLARE SCREEN, TEMPORARY
- TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS
- ARROW BOARD
- DIRECTION OF TRAFFIC

END WORK ZONE
SPEED LIMIT
G20-1103-6036

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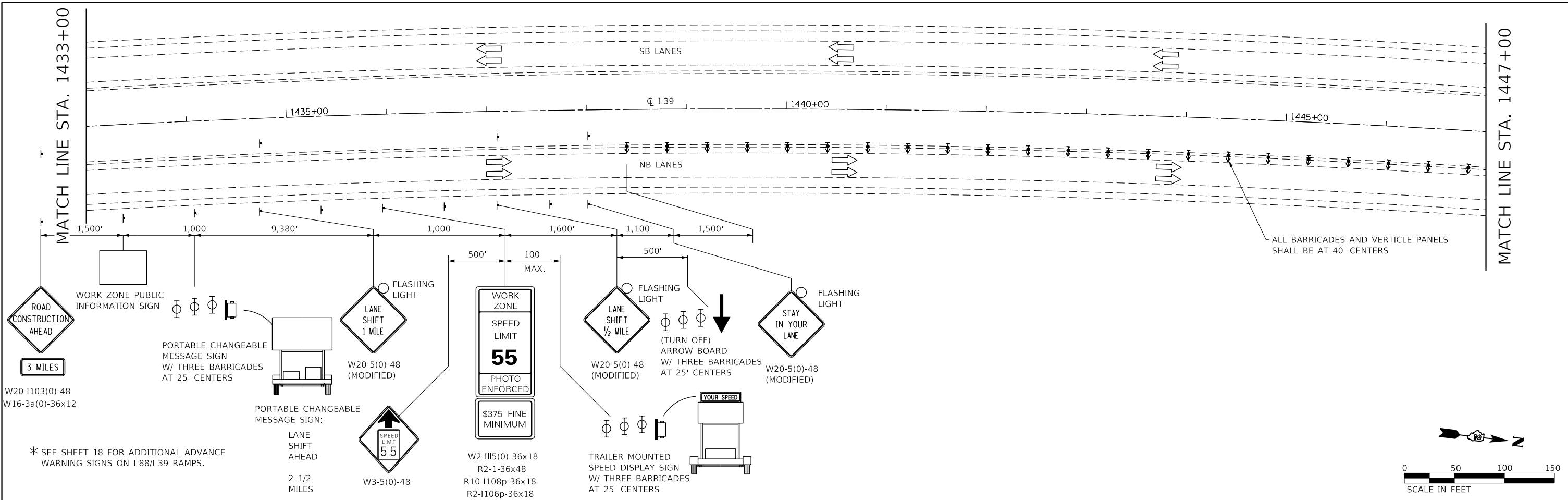


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| | DRAWN - TBS | REVISED - |
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| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

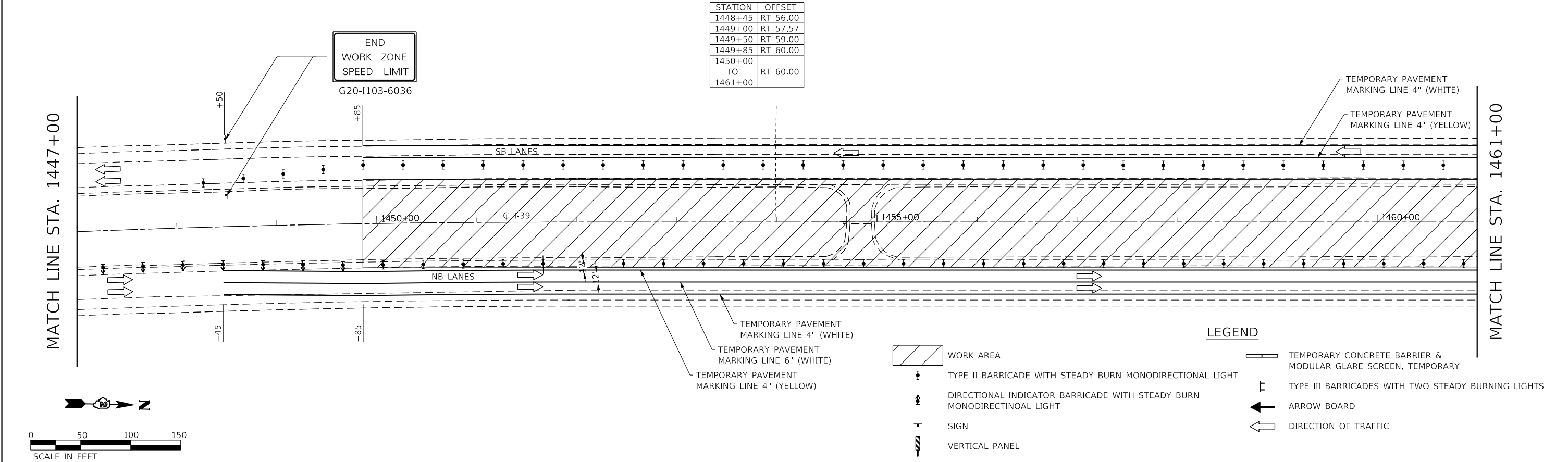
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
CROSSOVER CONSTRUCTION - WORKING HOURS
SCALE 1" = 100' SHEET 3 OF 9 SHEETS STA. 1461+00 TO STA. 1489+00

| | | | | |
|---------------------------|------------------------|-------------|-----------------|--------------------|
| F.A.I. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 20 |
| | | | | CONTRACT NO. 64M77 |
| ILLINOIS FED. AID PROJECT | | | | |



TEMPORARY PAVEMENT MARKING LINE 6"



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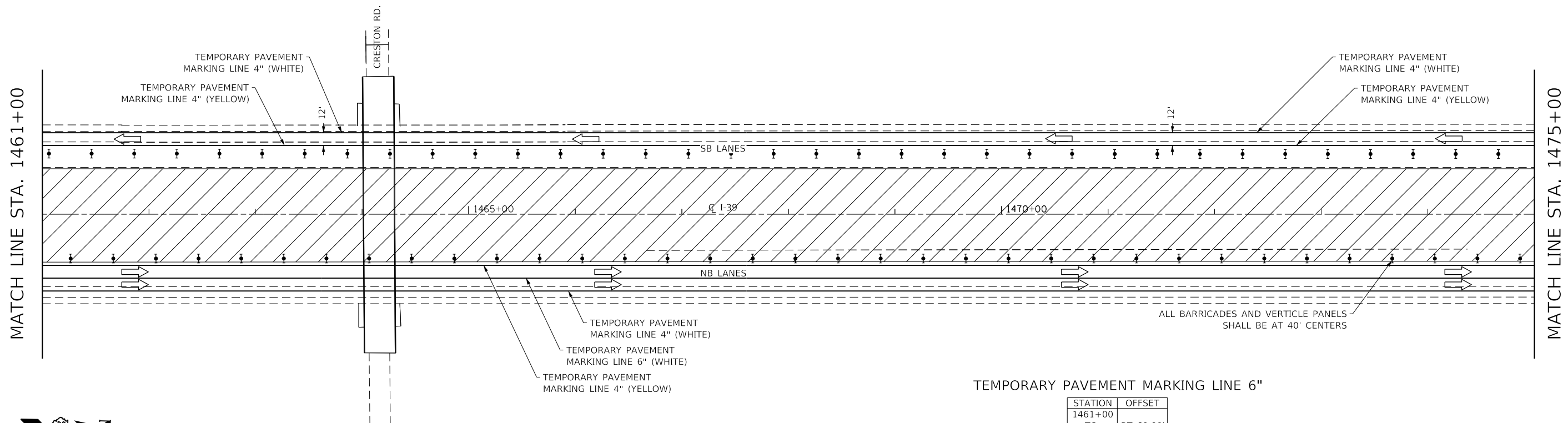
WILLET HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 89 EAST 2ND STREET, DEKALB, IL 62521-0367
 TEL: 219-284-3351 DESIGN PERM: 0184-000018

| | | |
|--|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - | |
| PLOT SCALE = 1200.0000 "/> <td>CHECKED - GFS</td> <td>REVISED -</td> | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
CROSSOVER CONSTRUCTION - NON-WORKING HOURS

| | | | | |
|--|------------------------|-------------|--|--------------|
| F.A.I. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 21 |
| SCALE 1" = 100' | | | SHEET 4 OF 9 SHEETS STA. 1433+00 TO STA. 1461+00 | |
| ILLINOIS FED. AID PROJECT CONTRACT NO. 64M77 | | | | |

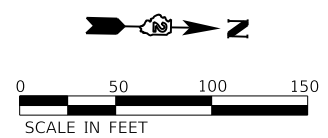
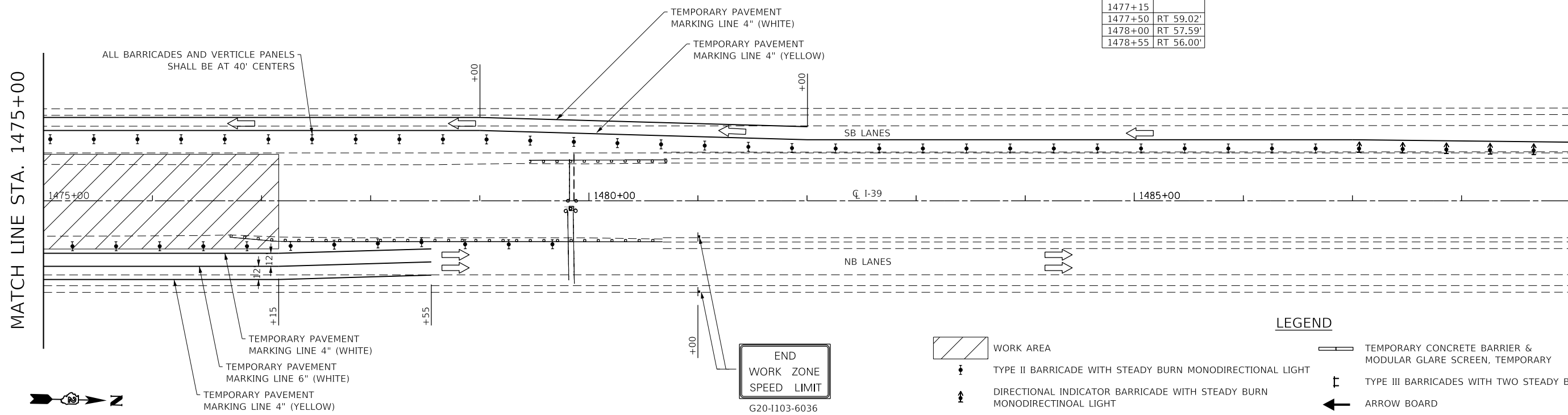


TEMPORARY PAVEMENT MARKING LINE 6"

| STATION | OFFSET |
|---------|-----------|
| 1461+00 | RT 60.00' |
| TO | |
| 1475+00 | |

TEMPORARY PAVEMENT MARKING LINE 6"

| STATION | OFFSET |
|---------|-----------|
| 1475+00 | RT 60.00' |
| TO | |
| 1477+15 | |
| 1477+50 | RT 59.02' |
| 1478+00 | RT 57.59' |
| 1478+55 | RT 56.00' |



LEGEND

- WORK AREA
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTINOAL LIGHT
- SIGN
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER & MODULAR GLARE SCREEN, TEMPORARY
- TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS
- ARROW BOARD
- DIRECTION OF TRAFFIC

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| | | |
|-------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 1200.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

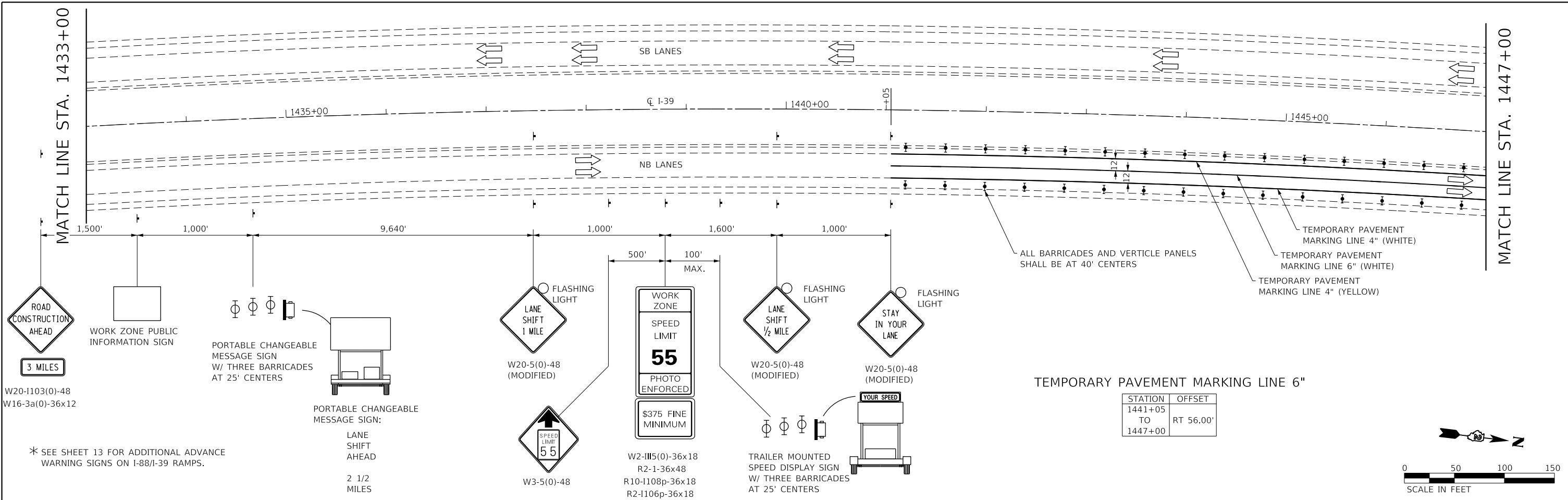
TRAFFIC CONTROL PLAN
CROSSOVER CONSTRUCTION - NON-WORKING HOURS

SCALE 1" = 100' SHEET 5 OF 9 SHEETS STA. 1461+00 TO STA. 1489+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 22 |
| CONTRACT NO. 64M77 | | | | |

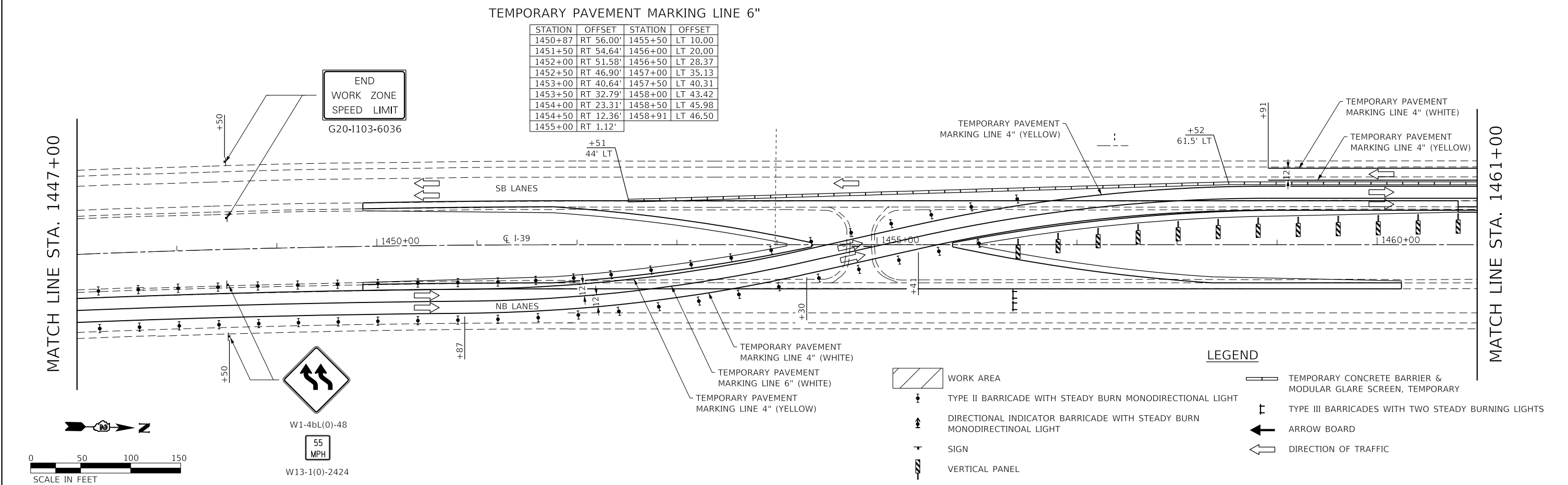
ILLINOIS FED. AID PROJECT

MATCH LINE STA. 1489+00
(REFER TO SHEET NO. 25)



TEMPORARY PAVEMENT MARKING LINE 6"

| STATION | OFFSET | STATION | OFFSET |
|---------|-----------|---------|----------|
| 1450+87 | RT 56.00' | 1455+50 | LT 10.00 |
| 1451+50 | RT 54.64' | 1456+00 | LT 20.00 |
| 1452+00 | RT 51.58' | 1456+50 | LT 28.37 |
| 1452+50 | RT 46.90' | 1457+00 | LT 35.13 |
| 1453+00 | RT 40.64' | 1457+50 | LT 40.31 |
| 1453+50 | RT 32.79' | 1458+00 | LT 43.42 |
| 1454+00 | RT 23.31' | 1458+50 | LT 45.98 |
| 1454+50 | RT 12.36' | 1458+91 | LT 46.50 |
| 1455+00 | RT 1.12' | | |



| | | |
|--|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISOR - | |
| PLOT SCALE = 1200.0000 "/> <td>CHECKED - GFS</td> <td>REVISOR -</td> | CHECKED - GFS | REVISOR - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISOR - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
BRIDGE REPAIRS

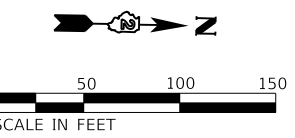
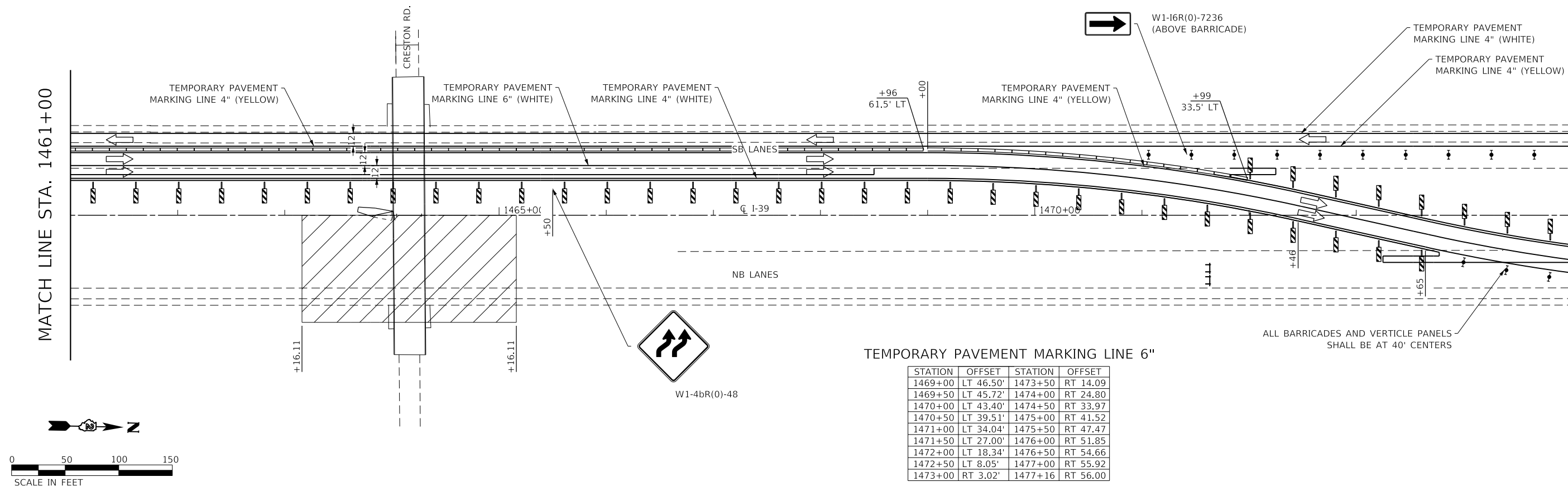
SCALE 1" = 100' SHEET 6 OF 9 SHEETS STA. 1433+00 TO STA. 1461+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 23 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_TrafficControlPlan.dgn

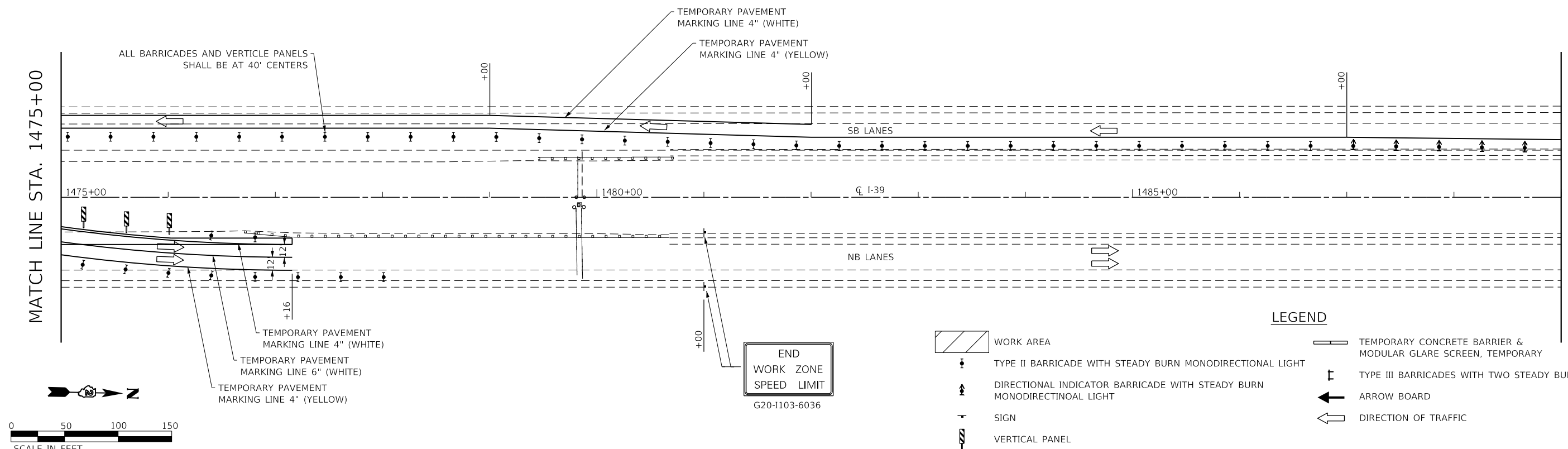
MATCH LINE STA. 1461+00

MATCH LINE STA. 1475+00



MATCH LINE STA. 1475+00

MATCH LINE STA. 1489+00



LEGEND

| | | | |
|--|--|--|--|
| | WORK AREA | | TEMPORARY CONCRETE BARRIER & MODULAR GLARE SCREEN, TEMPORARY |
| | TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS |
| | DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTINOAL LIGHT | | ARROW BOARD |
| | SIGN | | DIRECTION OF TRAFFIC |
| | VERTICAL PANEL | | |



FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_TrafficControlPlan.dgn



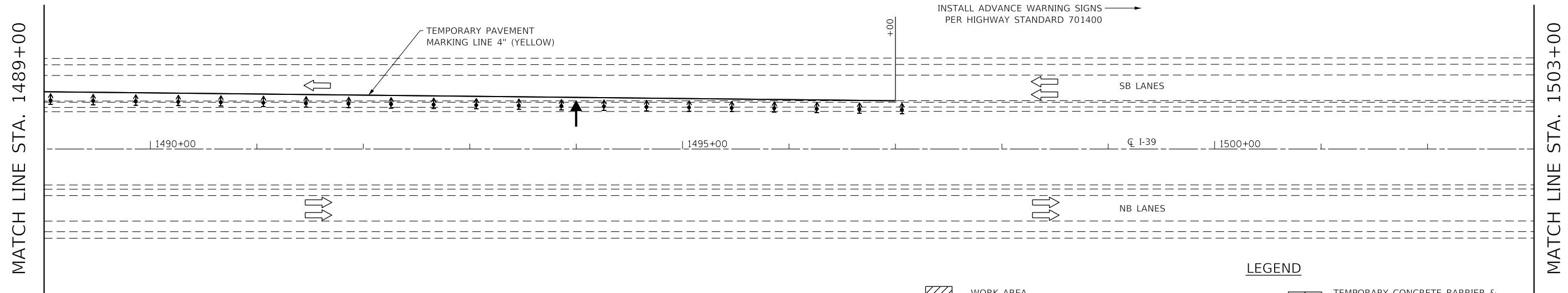
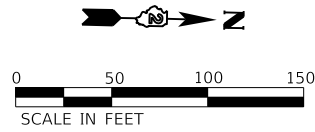
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| | DRAWN - TBS | REVISED - |
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| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
BRIDGE REPAIRS**

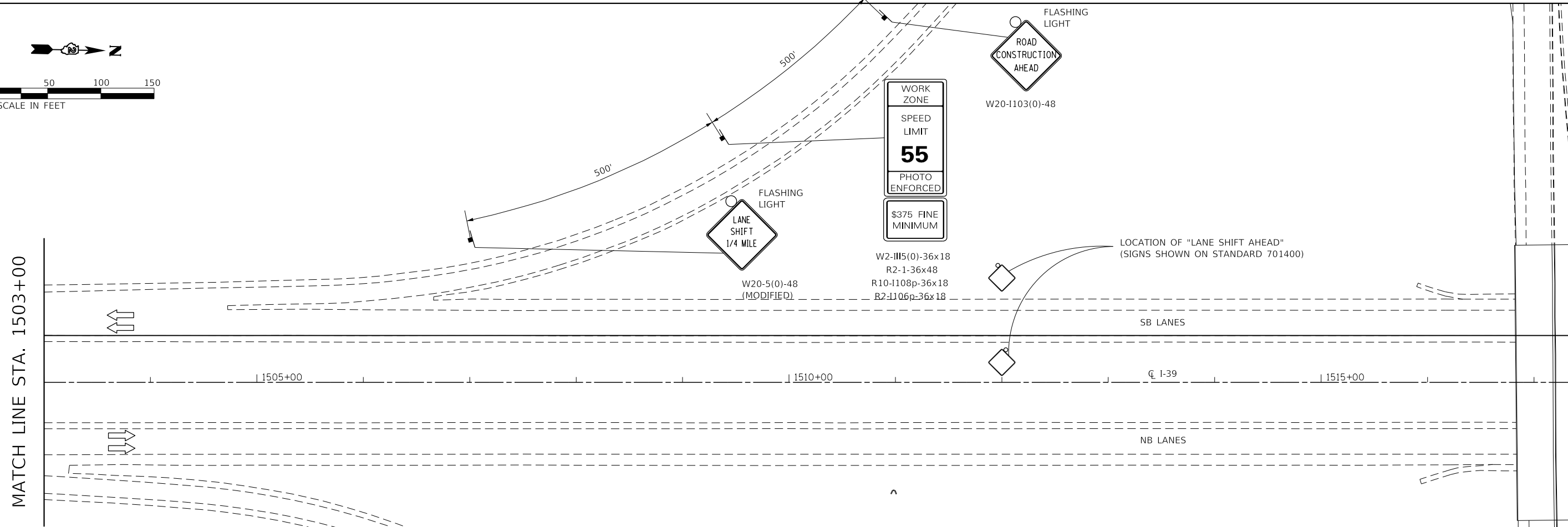
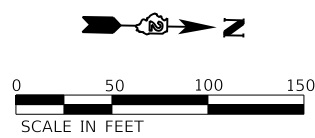
SCALE 1" = 100' SHEET 7 OF 9 SHEETS STA. 1461+00 TO STA. 1489+00

| | | | | |
|--------------------|------------------------|-------------|-----------------|---------------------------|
| F.A.I. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 24 |
| CONTRACT NO. 64M77 | | | | ILLINOIS FED. AID PROJECT |



LEGEND

- WORK AREA
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTIONAL INDICATOR BARRICADE WITH STEADY BURN MONODIRECTINOAL LIGHT
- SIGN
- VERTICAL PANEL
- TEMPORARY CONCRETE BARRIER & MODULAR GLARE SCREEN, TEMPORARY
- TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS
- ARROW BOARD
- DIRECTION OF TRAFFIC



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| | | |
|-------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISIED - | |
| CHECKED - GFS | REVISIED - | |
| DATE - 6/20/18 | REVISIED - | |

| | |
|----------------|------------|
| DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISIED - |
| CHECKED - GFS | REVISIED - |
| DATE - 6/20/18 | REVISIED - |

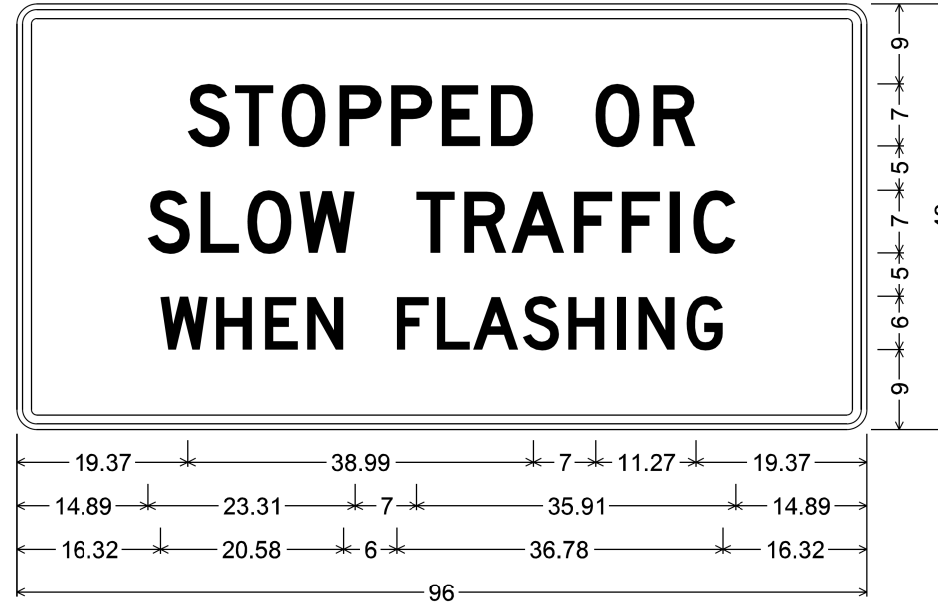
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN
ADVANCE WARNING SIGNS**

SCALE 1" = 100' SHEET 8 OF 9 SHEETS STA. 1489+00 TO STA. 1504+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 25 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

**STOPPED OR
SLOW TRAFFIC
WHEN FLASHING**



Stopped Or Slow Traffic When Flashing;
 2.25" Radius, 1.00" Border, 0.63" Indent, Black on Orange;
 [STOPPED OR] D 2K; [SLOW TRAFFIC] D 2K;
 [WHEN FLASHING] D 2K;
 Table of letter and object lefts.

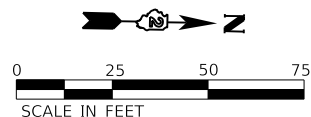
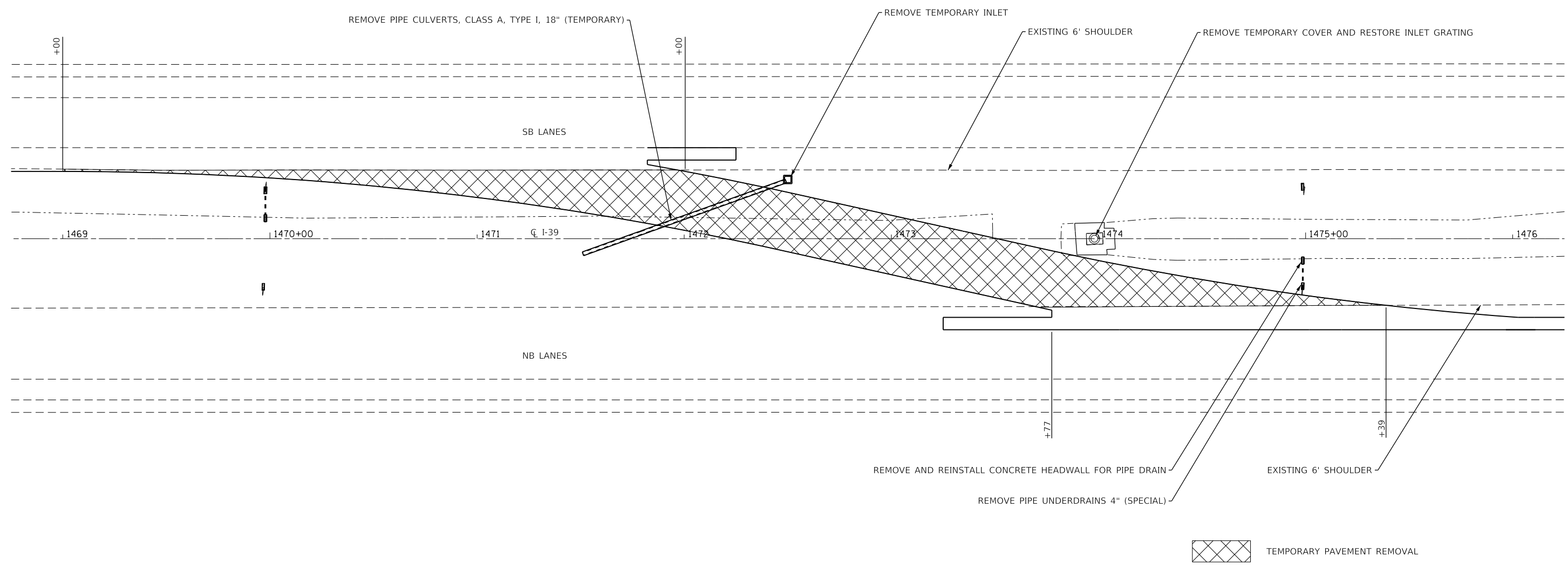
| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| S | T | O | P | P | E | D | O | R | | | | |
| 19.37 | 24.69 | 29.94 | 36.45 | 42.26 | 48.07 | 53.60 | 65.36 | 71.87 | | | | |
| S | L | O | W | T | R | A | F | F | I | C | | |
| 14.89 | 20.84 | 26.09 | 31.97 | 45.20 | 50.59 | 55.91 | 62.91 | 68.30 | 73.69 | 76.35 | | |
| W | H | E | N | | | | | | | | | |
| 16.32 | 22.56 | 28.08 | 32.82 | | | | | | | | | |
| F | L | A | S | H | I | N | G | | | | | |
| 42.90 | 47.52 | 51.60 | 57.18 | 62.28 | 67.80 | 70.20 | 75.60 | | | | | |

The cost to provide, erect, maintain and remove this sign is included with REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT.

REAL-TIME TRAFFIC CONTROL SYSTEM - SIGN LEGEND

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_TrafficControlPlan.dgn

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_Crossover-Remove_Detail.dgn



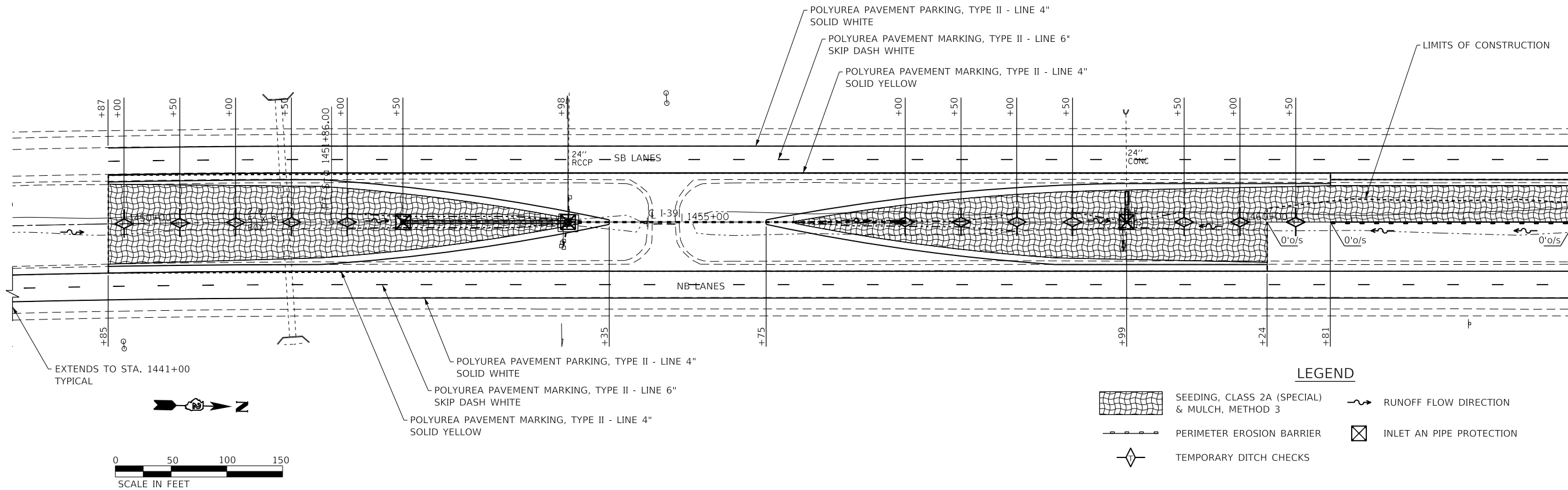
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| DRAWN - TBS | REVISED - | |
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| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

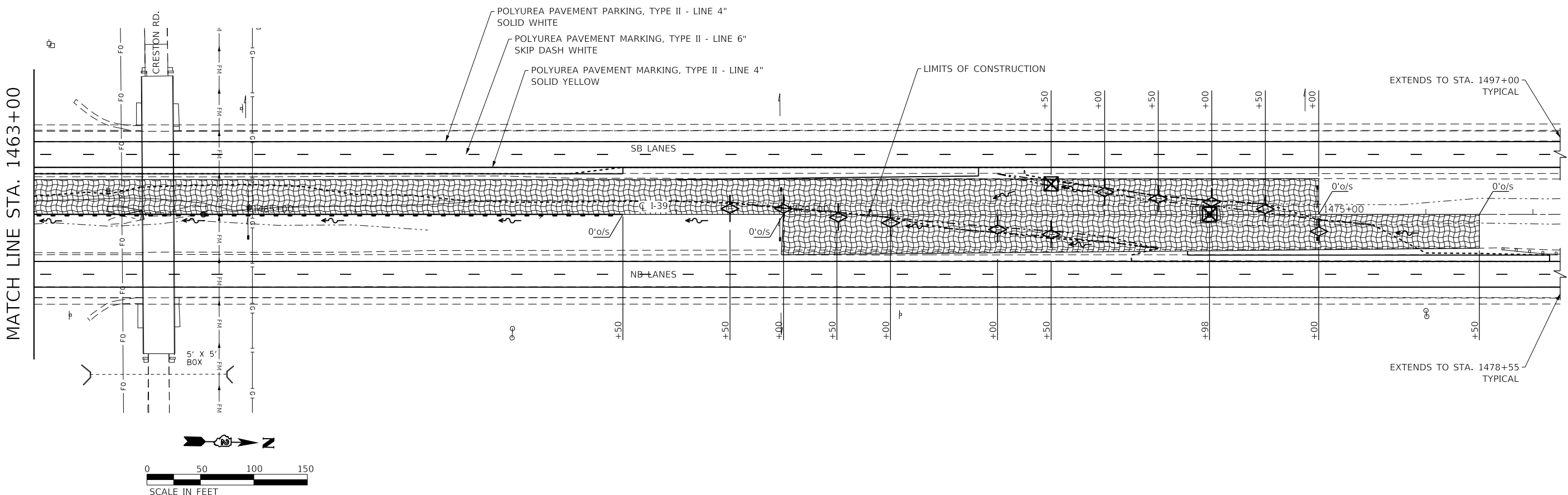
CROSSOVER REMOVAL DETAIL

SCALE 1" = 50' SHEET 1 OF 1 SHEETS STA. 1468+75 TO STA. 1476+25

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 27 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCH LINE STA. 1463+00



EXTENDS TO STA. 1497+00 TYPICAL

EXTENDS TO STA. 1478+55 TYPICAL

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| | | |
|--|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| PLOT SCALE = 1200.0000 "/> <td>DRAWN - TBS</td> <td>REVISED -</td> | DRAWN - TBS | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - GFS | REVISED - |
| | DATE - 6/20/18 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| EROSION CONTROL & PAVEMENT MARKING PLAN | | | |
|---|---------|-------------|------------------------------|
| SCALE 1" = 100' | SHEET 1 | OF 1 SHEETS | STA. 1449+00 TO STA. 1477+25 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 28 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |


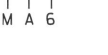


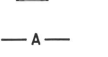




GENERAL NOTES

1. THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS AND REFERENCE DRAWINGS WHICH WOULD EFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING.
2. NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENTS NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM JOB SITE AT THE CONTRACTOR'S EXPENSE.
3. THE ELECTRICAL MATERIALS MUST BE NEW AND OF THE TYPE AND KINDS APPROVED BY THE FOLLOWING ORGANIZATIONS.
 -NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)
 -INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)
 -ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)
 -AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS. (AASHTO)
 -U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T.)
 -UNDERWRITERS LABORATORIES. (UL)
 -AMERICAN STANDARD INSTITUTE. (ASI)
 -INSULATED POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)
4. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, EVEN THOUGH EVERY DETAIL OF REQUIREMENTS IS NOT SPECIFIED OR SHOWN.
5. CONTRACTOR IS RESPONSIBLE TO CONTACT LOCAL UTILITY COMPANY AND COORDINATE HIS WORK TO ESTABLISH POWER SERVICE.
 -CONTACT NAME: MS. BARBARA BELL
 -EMAIL: BBELL@RMJ.NET
 -PHONE: 815 516 2086
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATION OF ALL LIGHT POLES AND THE LIGHTING CONTROLLERS FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER.

SHEET SPECIFIC NOTES FOR EL-006

1. CONTRACTOR SHALL INSTALL WEATHER HEAD BELOW AERIAL LINE.
2. BRANCH CIRCUIT FOR LIGHTING SHALL BE INSTALLED AERIALY ONLY.
3. TOTAL NUMBER OF BRANCH CIRCUIT BREAKES, ITEM NO. 5, SHALL BE 7 (5 CIRCUITS, + 2 SPARES).

SYMBOL LEGEND:

-  LIGHTING CONTROLLER DESIGNATION
-  CIRCUIT IDENTIFICATION
-  POLE NUMBER ON GIVEN CIRCUIT
-  IDOT POLE DESIGNATION
-  GROUND MOUNTED WOOD POLE 60 FT, CLASS 4 WITH 15 FT MAST ARM, 50' M.H. LED LUMINAIRE, 400WATTS HPS EQUIVALENT, HORIZONTAL MOUNT, TILT IS 0 DEGREES UNLESS OTHERWISE NOTED ON THE PLANS. SEE TEMPORARY LIGHTING NOTE 8
-  TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED.
-  AERIAL CABLE 4-1/C NO. 4 WITH MESSENGER WIRE
-  EOP
-  TEMPORARY WOOD POLE, 60FT., CLASS 4.

SUMMARY OF QUANTITIES

| DESCRIPTION | UNIT | QUANTITY |
|---------------------------|-------|----------|
| TEMPORARY LIGHTING SYSTEM | L SUM | 1 |

SHEET INDEX

| DRAWING NO. | DESCRIPTION | SHEET NO. |
|-------------|---|-----------|
| 1 | INDEX OF DRAWINGS, KEY PLAN, SOQ, LEGEND, ABBREVIATIONS AND NOTES | EL-000 |
| 2 | TEMPORARY LIGHTING STA. 1433+00 TO STA. 1447+00 | EL-001 |
| 3 | TEMPORARY LIGHTING STA. 1447+00 TO STA. 1461+00 | EL-002 |
| 4 | TEMPORARY LIGHTING STA. 1461+00 TO STA. 1475+00 | EL-003 |
| 5 | TEMPORARY LIGHTING STA. 1475+00 TO STA. 1489+00 | EL-004 |
| 6 | IDOT STANDARD BE-800 | EL-005 |
| 7 | IDOT STANDARD 825001-03 | EL-006 |

TEMPORARY LIGHTING NOTES:

1. REFER TO TRAFFIC CONTROL AND PROTECTION STAGE I AND II PLANS. AS ALL WORK FOR WIDENING OF ROADWAY FROM STA. 824+00 TO STA. 873+00 SHALL BE DONE IN STAGE I. THEREFORE TEMPORARY LIGHTING IS REQUIRED AT OUTSIDE SHOULDER TO MAINTAIN TRAFFIC DURING CONSTRUCTION.
2. TEMPORARY LIGHT POLE SETBACK SHALL BE 30 FT FROM THE EOP.
3. TEMPORARY IDOT LIGHTING CONTROLLERS SHALL BE MAINTAINED DURING BRIDGE CONSTRUCTION.
4. TEMPORARY LIGHT POLES SHALL BE AS PER IDOT STANDARDS. LED LUMINAIRE, 400W HPS EQUIVALENT, 240V LUMINAIRE, WITH 15 FT MAST ARM. THE HEIGHT OF AERIAL CABLE SHALL BE 30'-0" MIN ABOVE PAVEMENT OR AS DIRECTED BY THE ENGINEER.
5. SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH THE FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE. TEMPORARY LIGHTING SHALL BE OPERATED FROM TEMPORARY LIGHTING CONTROLLER CIRCUITS.
6. ALL SALVAGED MATERIALS SUCH AS TEMPORARY WOOD POLE, MAST ARM, LUMINAIRE SHALL BE DELIVERED TO IDOT YARD, AS DIRECTED BY ENGINEER.
7. TEMPORARY LIGHTING UNITS SHALL BE OPERATIONAL FOR MAINTENANCE OF TRAFFIC.
8. THIS CONTRACT INCLUDES PROPOSED ROADWAY LED LUMINAIRES. CONTRACTOR SHALL UTILIZE ONLY THE MANUFACTURES LISTED BELOW OR APPROVED EQUAL

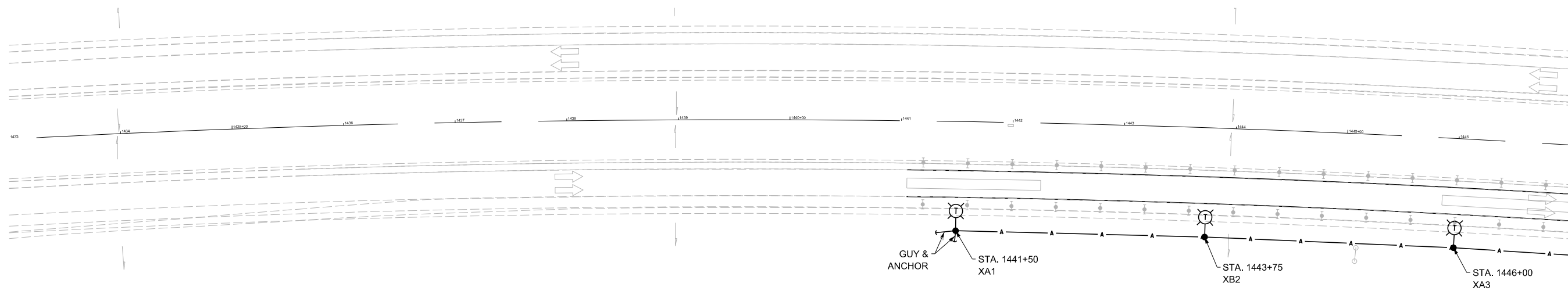
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IF THE CONTRACTOR ELECTS TO FURNISH COOPER LIGHTING LUMINAIRES, ALL LUMINAIRES LABELED TYPE III DISTRIBUTION,
 FILE NAME: NVN-AF-04-LED-U-T3R-1200.ies

IF THE CONTRACTOR ELECTS TO FURNISH PHILIPS LUMINAIRES, ALL LUMINAIRES LABELED TYPE R2M DISTRIBUTION,
 FILE NAME: RFL-215W96LED4K-G2-R2M S.ies



Hamja S. Master EXPIRES 11/30/2019
 EL-000





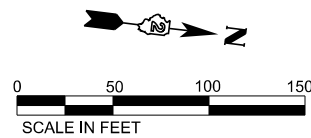
MATCH LINE STA. 1447+00

NOTES

1. CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNIT 30 FT., AWAY FROM EOP.
2. REFER TO SHEET EL-000 FOR GENERAL NOTES AND , TEMPORARY LIGHTING NOTES.

LEGEND

-  GROUND MOUNTED WOOD POLE 60 FT, CLASS 4 WITH 15 FT MAST ARM, 50' M.H. LED LUMINAIRE, 400WATTS HPS EQUIVALENT, HORIZONTAL MOUNT, TILT IS 0 DEGREES UNLESS OTHERWISE NOTED ON THE PLANS.
-  AERIAL CABLE 4-1/C NO. 2 WITH MESSENGER WIRE



DELTA ENGINEERING GROUP, LLC
 111 W JACKSON BLVD, SUITE 910
 CHICAGO, IL 60604
 T 312.377.7700, F 312.427.6145

| | | |
|-----------------------|------------------|-----------|
| USER NAME = #USER* | DESIGNED - AM | REVISED - |
| DRAWN - KA | CHECKED - HM | REVISED - |
| PLOT SCALE = #SCALE* | DATE - 3/23/2018 | REVISED - |
| PLOT DATE = 6/20/2018 | | |

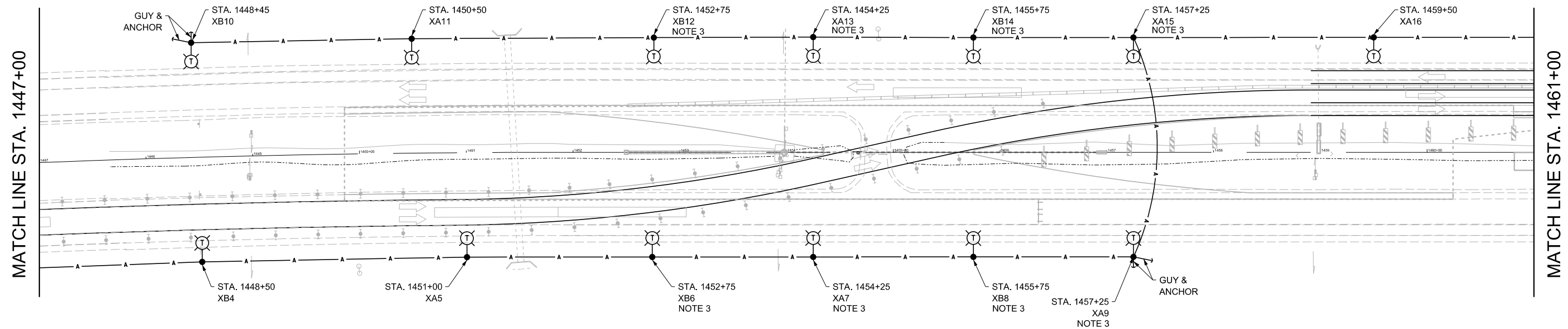
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-39
 STA 1441+00 TO STA 1447+00**

SCALE: 1" = 50' SHEET 2 OF 7 SHEETS STA. 1433+00 TO STA. 1447+00

| | | | | |
|--------------------|----------------|--------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 30 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |



EL-001

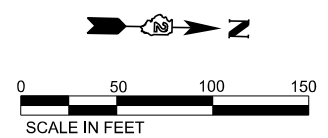


NOTE

1. CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNIT 30 FT., AWAY FROM EOP.
2. REFER TO SHEET EL-000 FOR GENERAL NOTES AND , TEMPORARY LIGHTING NOTES ON SHEET EL-000.
3. CONTRACTOR SHALL INSTALL THIS LUMINAIRE WITH 15° TILT.

LEGEND

- 
 GROUND MOUNTED WOOD POLE 60 FT, CLASS 4 WITH 15 FT MAST ARM, 50' M.H. LED LUMINAIRE, 400WATTS HPS EQUIVALENT, HORIZONTAL MOUNT, TILT IS 0 DEGREES UNLESS OTHERWISE NOTED ON THE PLANS.
- 
 AERIAL CABLE 4-1/C NO. 2 WITH MESSENGER WIRE



DELTA ENGINEERING GROUP, LLC
 111 W JACKSON BLVD, SUITE 910
 CHICAGO, IL 60604
 T 312.377.7700, F 312.427.6145

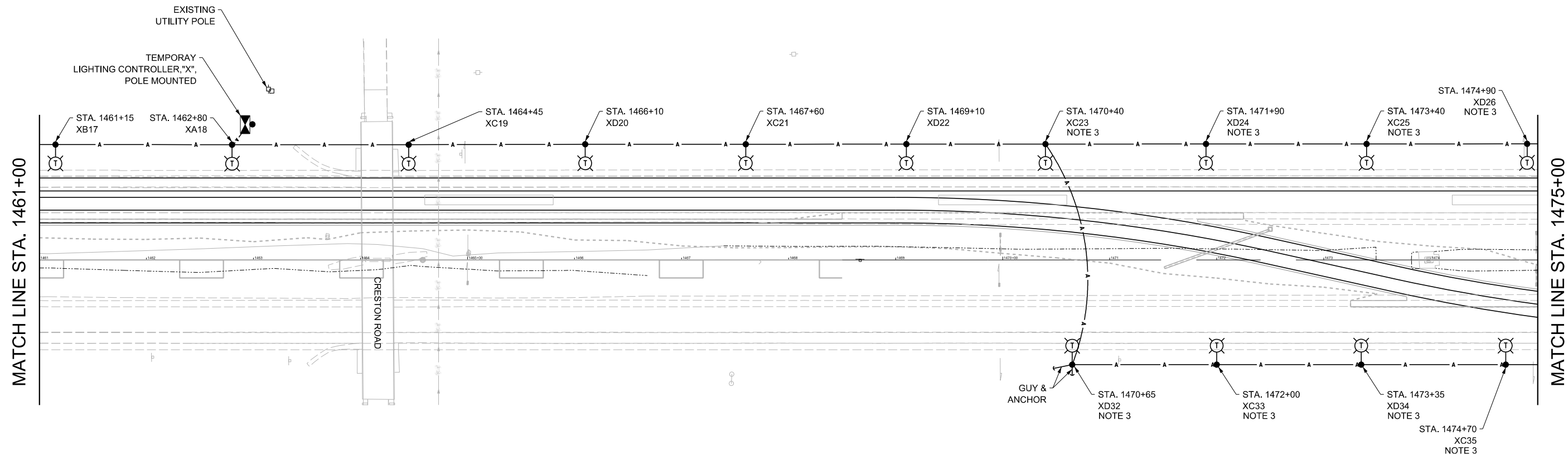
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| DRAWN - KA | CHECKED - HM | REVISED - |
| PLOT SCALE = #SCALE# | DATE - 3/23/2018 | REVISED - |
| PLOT DATE = 6/20/2018 | | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

I-39
STA 1447+00 TO STA 1461+00
 SCALE: 1" = 50' SHEET 3 OF 7 SHEETS STA. 1447+00 TO STA. 1461+00

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.I R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 31 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |





EL-002

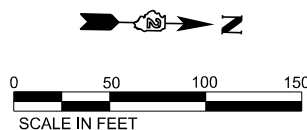


NOTE

1. CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNIT 30 FT., AWAY FROM EOP.
2. REFER TO SHEET EL-000 FOR GENERAL NOTES AND , TEMPORARY LIGHTING NOTES.
3. CONTRACTOR SHALL INSTALL THIS LUMINAIRE WITH 15° TILT.

LEGEND

- 
 GROUND MOUNTED WOOD POLE 60 FT, CLASS 4 WITH 15 FT MAST ARM, 50' M.H. LED LUMINAIRE, HORIZONTAL MOUNT, 400 WATTS, TILT IS 0 DEGREES UNLESS OTHERWISE NOTED ON PLAN VIEW.
- 
 AERIAL CABLE 4-1/C NO. 2 WITH MESSENGER WIRE
- 
 TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED.
- 
 TEMPORARY WOOD POLE, 60FT., CLASS 4.



DELTA ENGINEERING GROUP, LLC
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 CHICAGO, IL 60604
 T 312.377.7700, F 312.427.6145

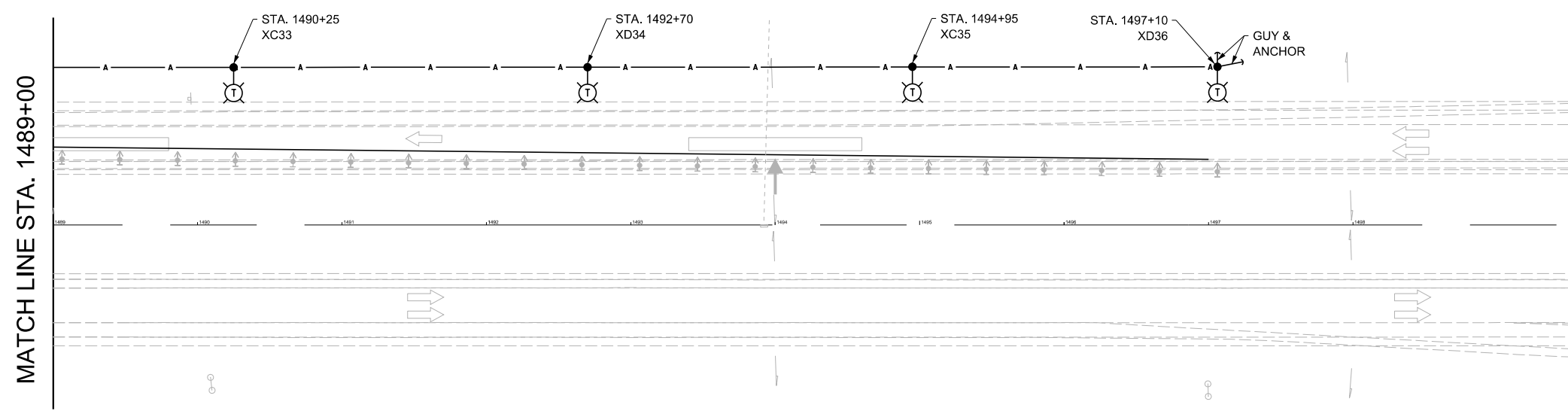
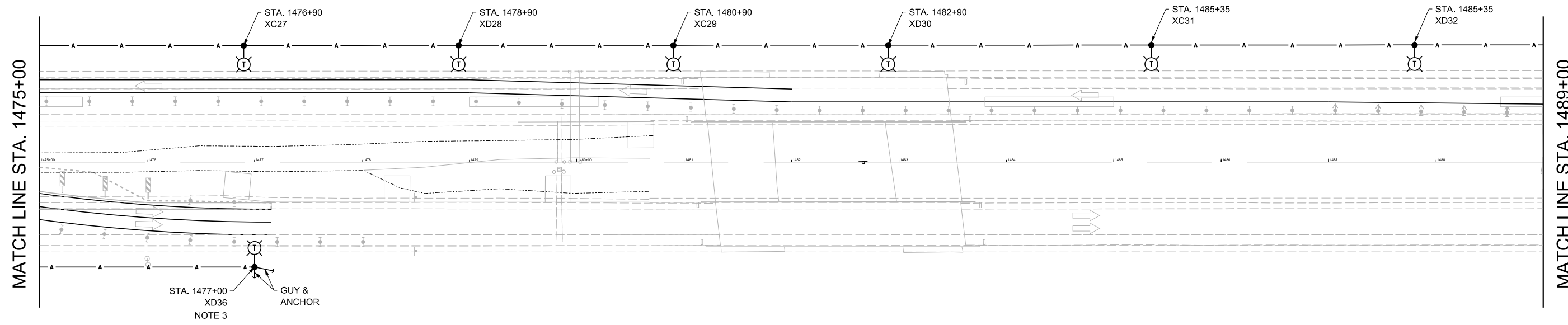
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|-----------------------|------------------|-----------|
| USER NAME = #USER* | DESIGNED - AM | REVISED - |
| DRAWN - KA | CHECKED - HM | REVISED - |
| PLOT SCALE = #SCALE* | DATE - 3/23/2018 | REVISED - |
| PLOT DATE = 6/20/2018 | | |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

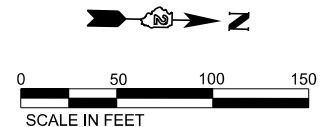
I-39
STA 1461+00 TO STA 1475+00
 SCALE: 1" = 50' SHEET 4 OF 7 SHEETS STA. 1461+00 TO STA. 1475+00

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.I RFE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 32 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

EL-003



- NOTE**
1. CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNIT 30 FT., AWAY FROM EOP.
 2. REFER TO SHEET EL-000 FOR GENERAL NOTES AND , TEMPORARY LIGHTING NOTES.
 3. CONTRACTOR SHALL INSTALL THIS LUMINAIRE WITH 15° TILT.
- LEGEND**
- T GROUND MOUNTED WOOD POLE 60 FT, CLASS 4 WITH 15 FT MAST ARM, 50' M.H. LED LUMINAIRE, HORIZONTAL MOUNT, 400 WATTS, TILT IS 0 DEGREES UNLESS OTHERWISE NOTED ON PLAN VIEW.
 - A — AERIAL CABLE 4-1/C NO. 2 WITH MESSENGER WIRE



DELTA ENGINEERING GROUP, LLC
 111 W JACKSON BLVD, SUITE 910
 CHICAGO, IL 60604
 T 312.377.7700, F 312.427.6145

| | | |
|-----------------------|------------------|-----------|
| USER NAME = #USER# | DESIGNED - AM | REVISED - |
| DRAWN - KA | REVISOR - | |
| PLOT SCALE = #SCALE# | CHECKED - HM | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 3/23/2018 | REVISED - |

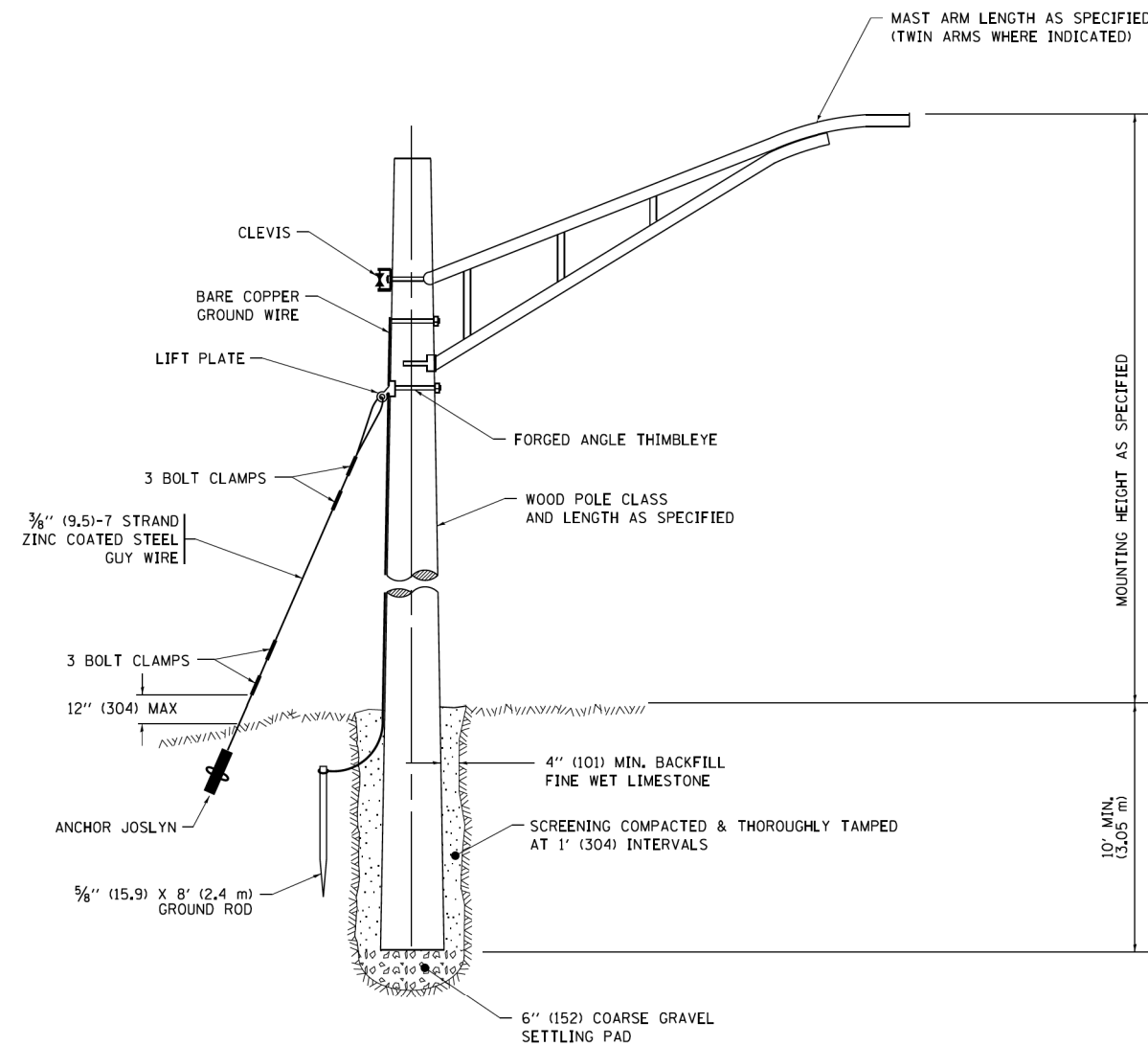
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**I-39
 STA 1475 + 00 TO STA 1498 + 00**

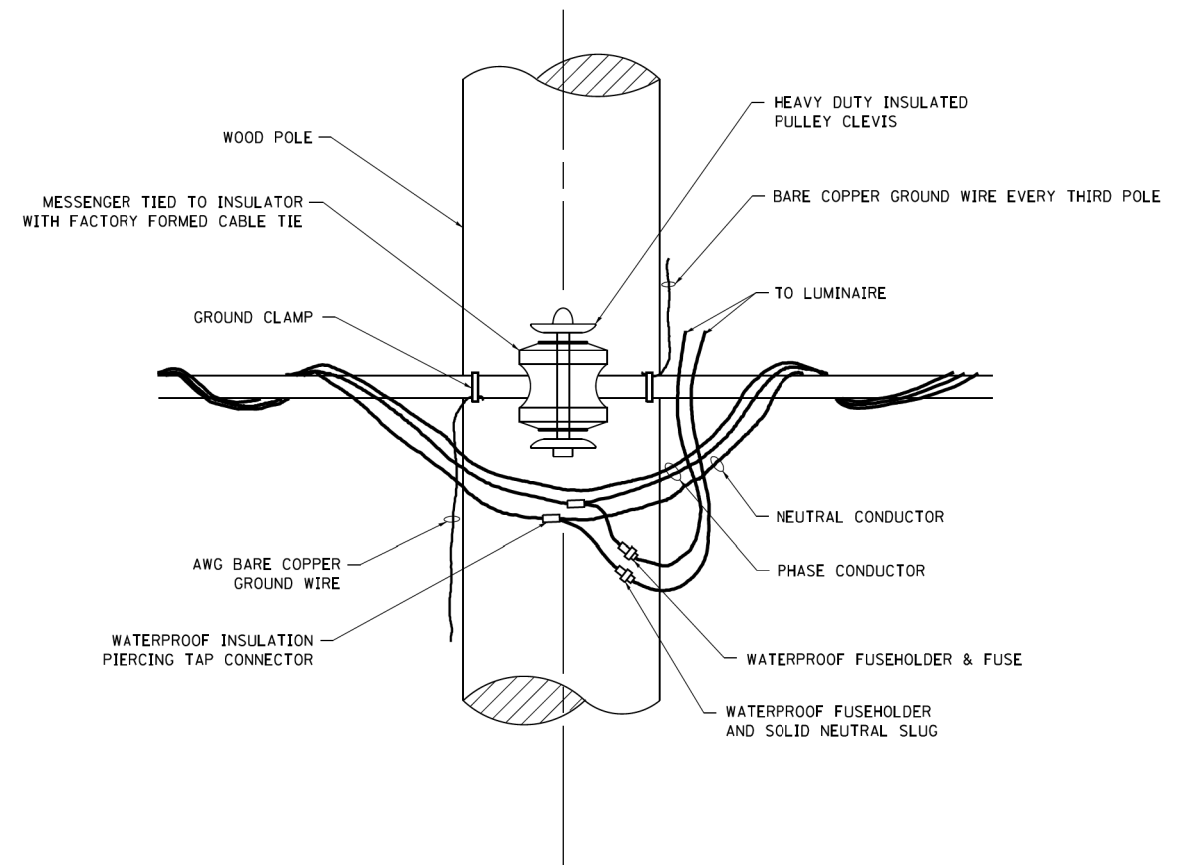
SCALE: 1" = 50' SHEET 5 OF 7 SHEETS STA. 1475+00 TO STA. 1498+00

| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 33 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

EL-004



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

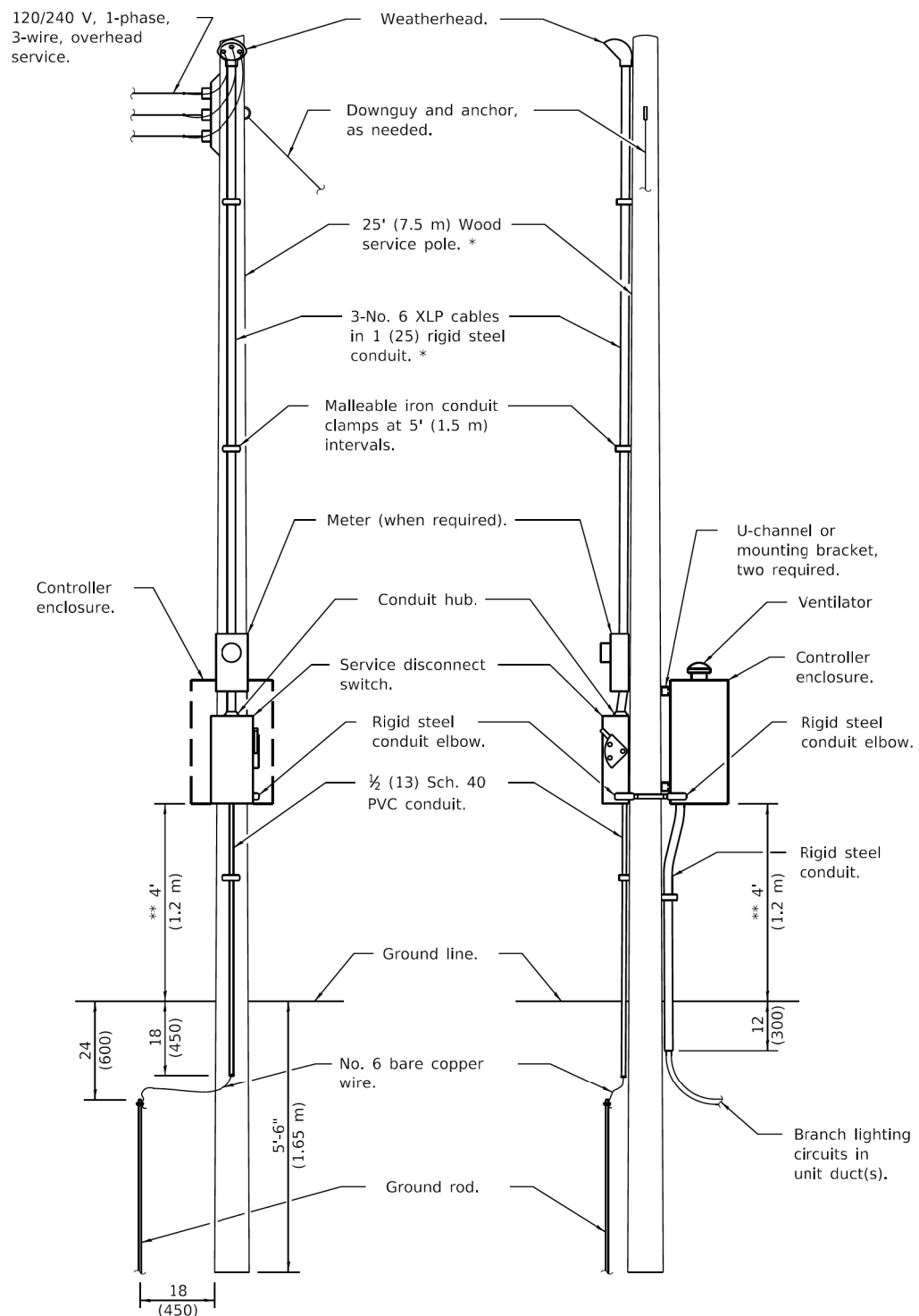
NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

FOR INFORMATION ONLY

| | | | | | | | | | | | | | |
|--|----------------------------|-------------------------|--------------------|---|-------------------------------------|--|--|-----------|---------|----------|------------------|-----------|--------|
| FILE NAME = | USER NAME = footemj | DESIGNED - | REVISED - 08-08-03 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TEMPORARY LIGHT POLE DETAILS | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| pw\dl084EBIDINTEGullinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\Drawings\CADData\CADsheets\be800.dgn | DRAWN - | REVISED - R.T. 07-26-16 | SCALE: NONE | | | | | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | BE-800 |
| Defaults | PLOT SCALE = 50,000' / in. | CHECKED - | REVISED - | | | | | | | ILLINOIS | FED. AID PROJECT | | |
| | PLOT DATE = 9/1/2016 | DATE - | REVISED - | | | | | | | | | | |

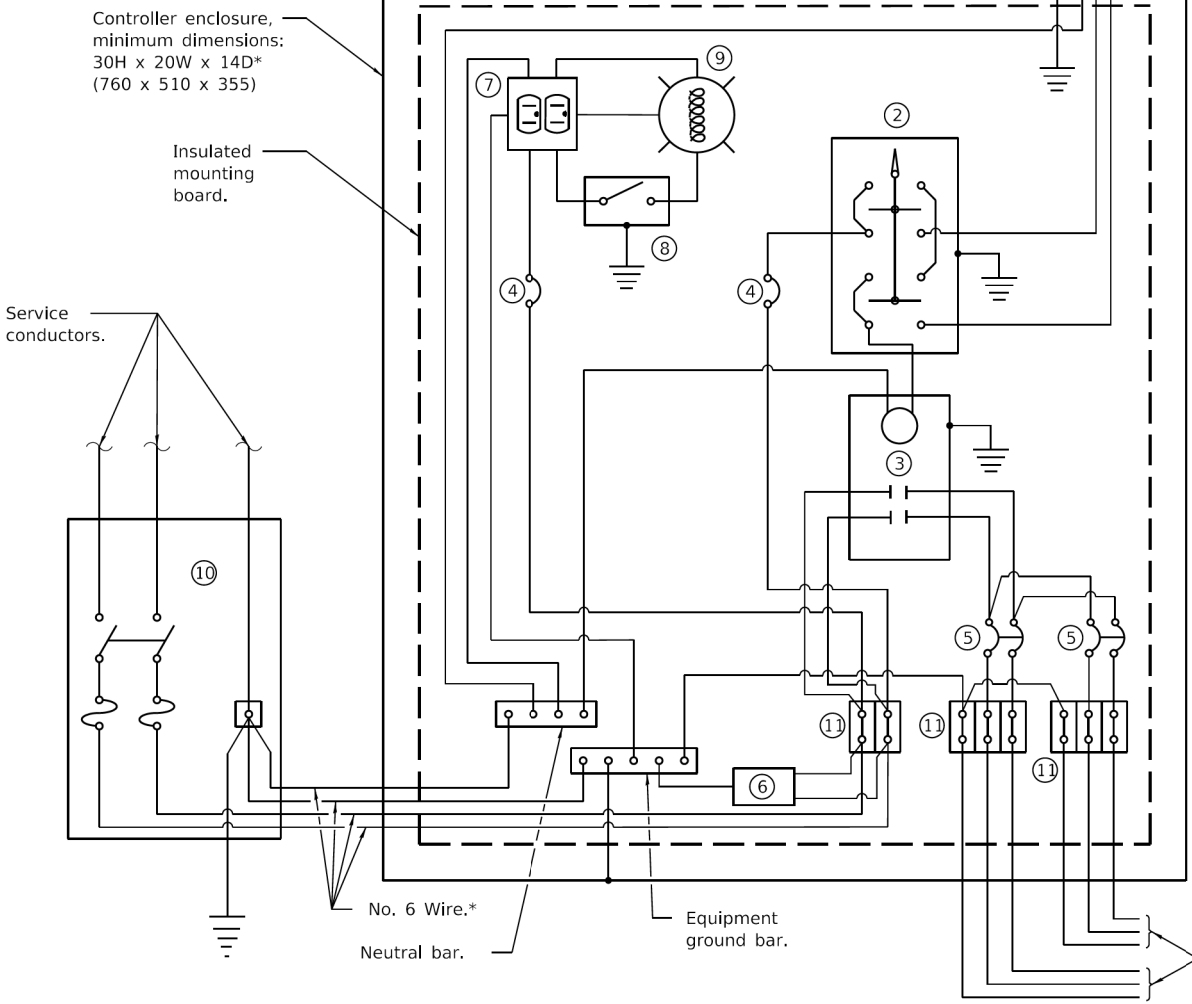
| | | | | | | | | | | | | | | | |
|---|----------------------|-----------------------|------------------|---|-------------------------------------|--|--|-------------|---------|--------|--------------|------------------|---------|----|----------------|
| DELTA ENGINEERING GROUP, LLC 111 W JACKSON BLVD, SUITE 910 CHICAGO, IL 60604 T 312.377.7700, F 312.427.6145 | USER NAME = *USER* | DESIGNED - AM | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TEMPORARY LIGHT POLE DETAILS | | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
| | PLOT SCALE = *SCALE* | CHECKED - HM | REVISED - | | | | | SCALE: NONE | SHEET 6 | OF 7 | SHEETS | STA. | TO STA. | 39 | (141-1HB-2)BRR |
| | Defaults | PLOT DATE = 6/20/2018 | DATE - 3/23/2018 | | REVISED - | | | | | | ILLINOIS | FED. AID PROJECT | | | |
| | | | | | | | | | | | | | | | |



FRONT **SIDE**

ELECTRIC SERVICE INSTALLATION

* Size larger as needed.
** Or as directed by Utility Company.



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 60 amp*, fused at 60 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ Terminal block sized for conductors as shown on plans.

* Size larger as needed.

FOR INFORMATION ONLY

**LIGHTING CONTROLLER
POLE MOUNTED, 240V**

(Sheet 2 of 2)

STANDARD 825001-03

| | |
|---|---------------|
| Illinois Department of Transportation | |
| PASSED <u>April 1, 2016</u> | ISSUED 1-1-10 |
| ENGINEER OF PRELIMINARY ENGINEERING <i>[Signature]</i> | |
| APPROVED <u>April 1, 2016</u> | |
| ENGINEER OF DESIGN AND ENVIRONMENT <i>[Signature]</i> | |

| | | |
|-----------------------|------------------|-----------|
| USER NAME = *USER* | DESIGNED - AM | REVISED - |
| PLOT SCALE = *SCALE* | DRAWN - KA | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - HM | REVISED - |
| | DATE - 3/23/2018 | REVISED - |

| | |
|---|----------------------------------|
| LIGHTING CONTROLLER POLE MOUNTED, 240V | |
| SCALE: NONE | SHEET 7 OF 7 SHEETS STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 35 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Joint plates and attached bars shall be shop painted with the Inorganic zinc rich primer. No field paint required.

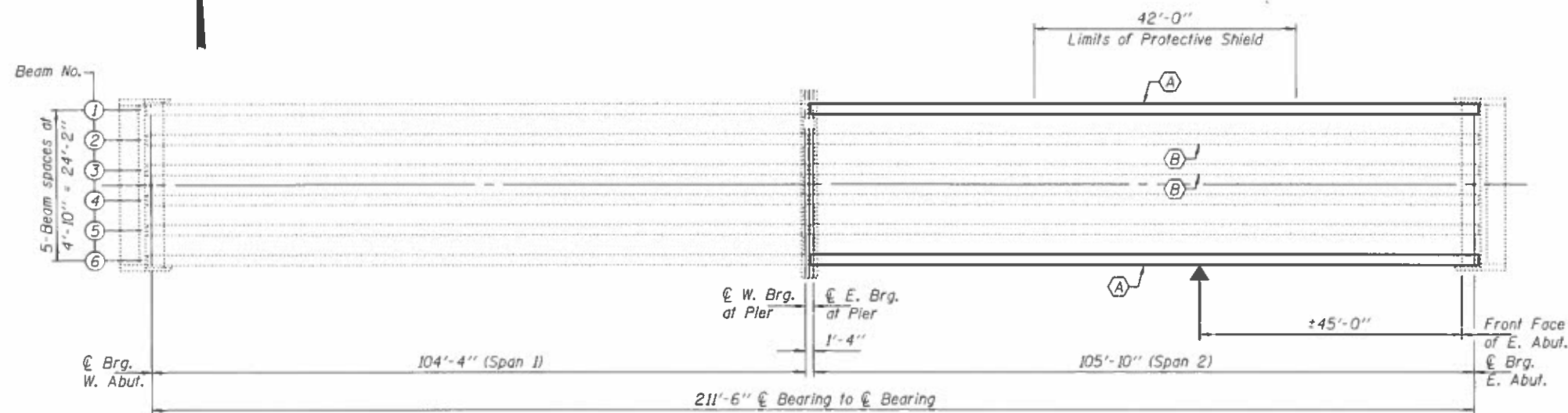
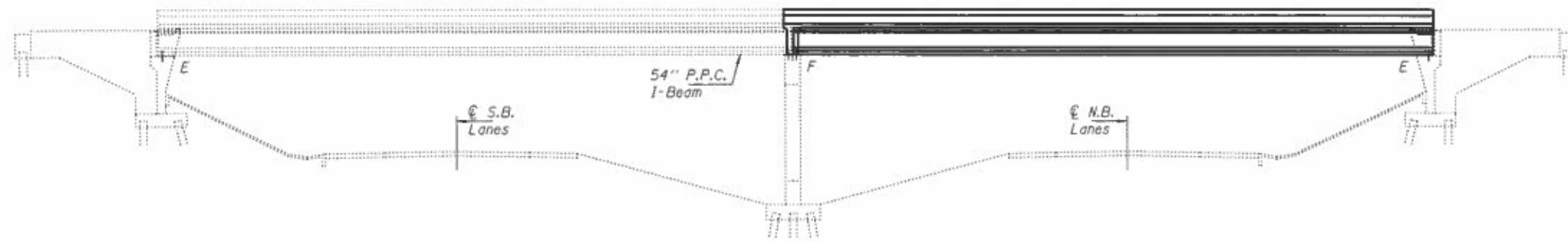
Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams.

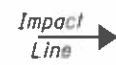
The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50° F.

The existing aluminum railing shall be removed, stored, and reinstalled in the areas of construction.



- FRAMING PLAN**
- (A) - Remove & Replace P.P.C. I-Beam
 - (B) - Repair Existing P.P.C. I-Beam



PROPOSED PRESTRESS UNITS

$f'_c = 6,000 \text{ psi}$
 $f'_{cl} = 5,000 \text{ psi}$
 $f'_s = 270,000 \text{ psi } (\frac{1}{2}'' \phi \text{ Lowlax strands})$
 $f'_{sl} = 201,960 \text{ psi } (\frac{1}{2}'' \phi \text{ Lowlax strands})$

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500 \text{ psi (Existing)}$
 $f'_c = 4,000 \text{ psi (New)}$
 $f_y = 60,000 \text{ psi (Reinf.)}$

EXISTING PRESTRESS UNITS

$f'_c = 6,000 \text{ psi}$
 $f'_{cl} = 5,000 \text{ psi}$
 $f'_s = 270,000 \text{ psi } (\frac{1}{2}'' \phi \text{ Stress relieved strands})$
 $f'_{sl} = 189,000 \text{ psi } (\frac{1}{2}'' \phi \text{ Stress relieved strands})$

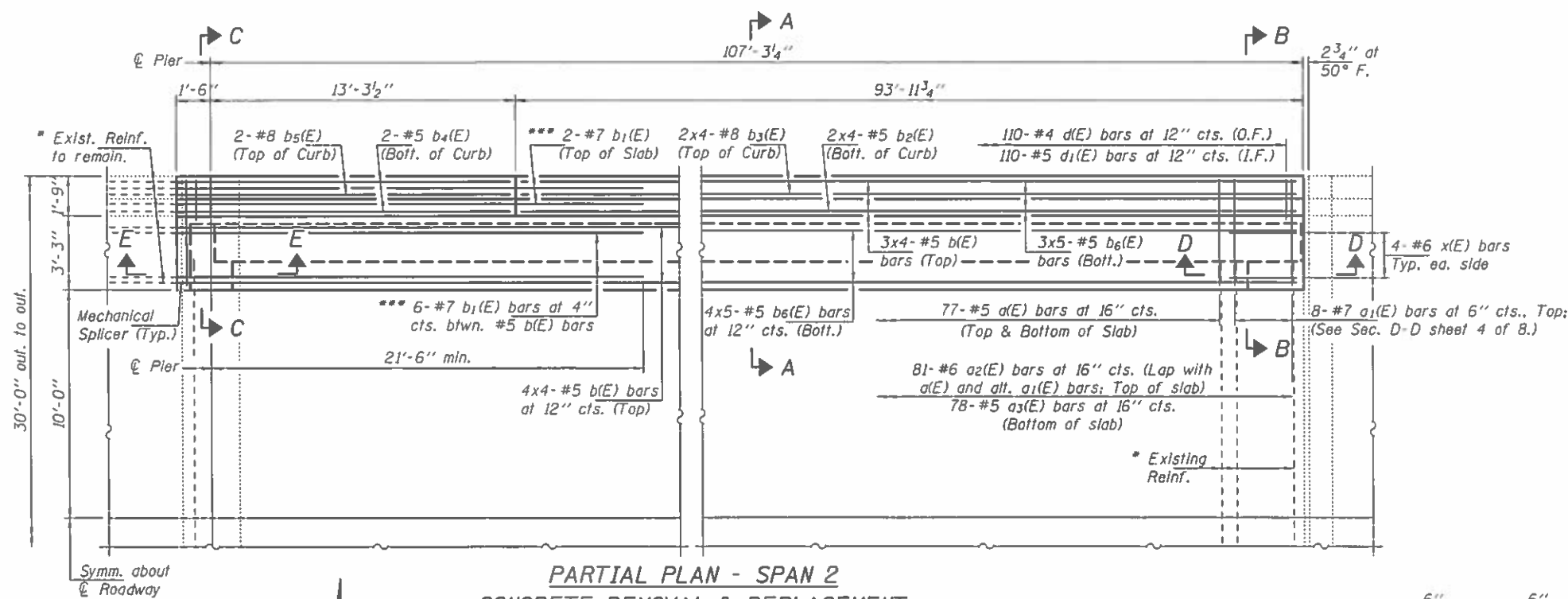
TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|---------|----------|
| Concrete Removal | Cu. Yd. | 69.8 |
| Concrete Superstructure | Cu. Yd. | 69.8 |
| Removal of Existing Concrete I-Beam | Each | 2 |
| Furnishing & Erecting Precast Prestressed Concrete I-Beams, 54" | Foot | 214 |
| Reinforcement Bars, Epoxy Coated | Pound | 11,550 |
| Mechanical Splicer | Each | 532 |
| Protective Shield | Sq. Yd. | 140 |
| Protective Coat | Sq. Yd. | 159.0 |
| Removing & Re-erecting Existing Railing | Foot | 217.5 |
| Preformed Joint Seal (4") | Foot | 30.0 |
| Precast Prestressed Concrete I-Beam Repair | L.S. | 1 |
| Fiber Wrap | Sq. Ft. | 147.5 |
| Acrylic Coating | Sq. Yd. | 16.4 |

* On new concrete only.

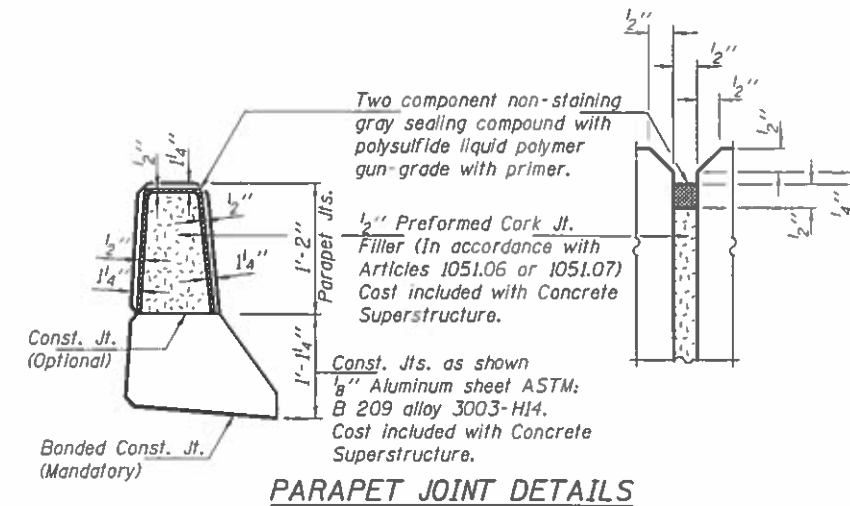
Expires: November 30, 2018

| | | | | | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------|---|---|--|--|--|--------------------|------------------------|-------------|-----------------|--------------|
| DESIGNED - <i>[Signature]</i> | EXAMINED - <i>[Signature]</i> | DATE - FEBRUARY 8, 2018 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | GENERAL PLAN & ELEVATION CRESTON ROAD OVER F.A.I. ROUTE 39 & U.S. ROUTE 51 SN 071-0061 | | | | F.A.I. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 36 |
| CHECKED - <i>[Signature]</i> | PASSED - <i>[Signature]</i> | REVISED | | SHEET NO. 1 OF 8 SHEETS | | | | CONTRACT NO. 64M77 | | | | |
| DRAWN - Kyle M. Steffen | | REVISED | | [ILLINOIS] FED. AID PROJECT | | | | | | | | |
| CHECKED - <i>[Signature]</i> | | | | | | | | | | | | |

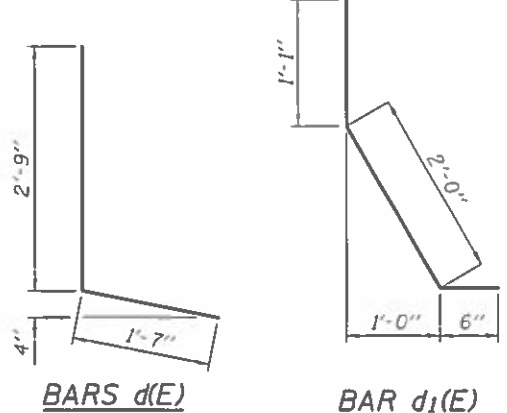
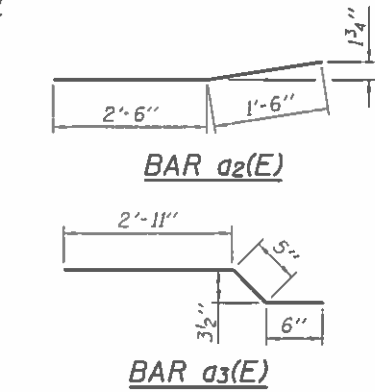
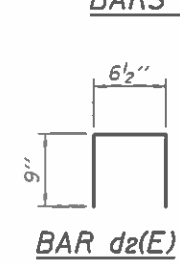
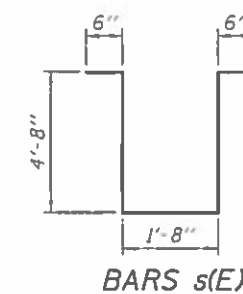


**PARTIAL PLAN - SPAN 2
CONCRETE REMOVAL & REPLACEMENT**

- * Cut existing reinforcement in slab 6" from face of concrete removal line. Use Mechanical Splicers.
- ** Existing reinforcement in parapet to be cleaned, straightened and incorporated into new construction.
- *** Mechanically spliced to existing #7 bars.



PARAPET JOINT DETAILS

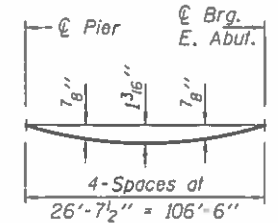


BILL OF MATERIAL

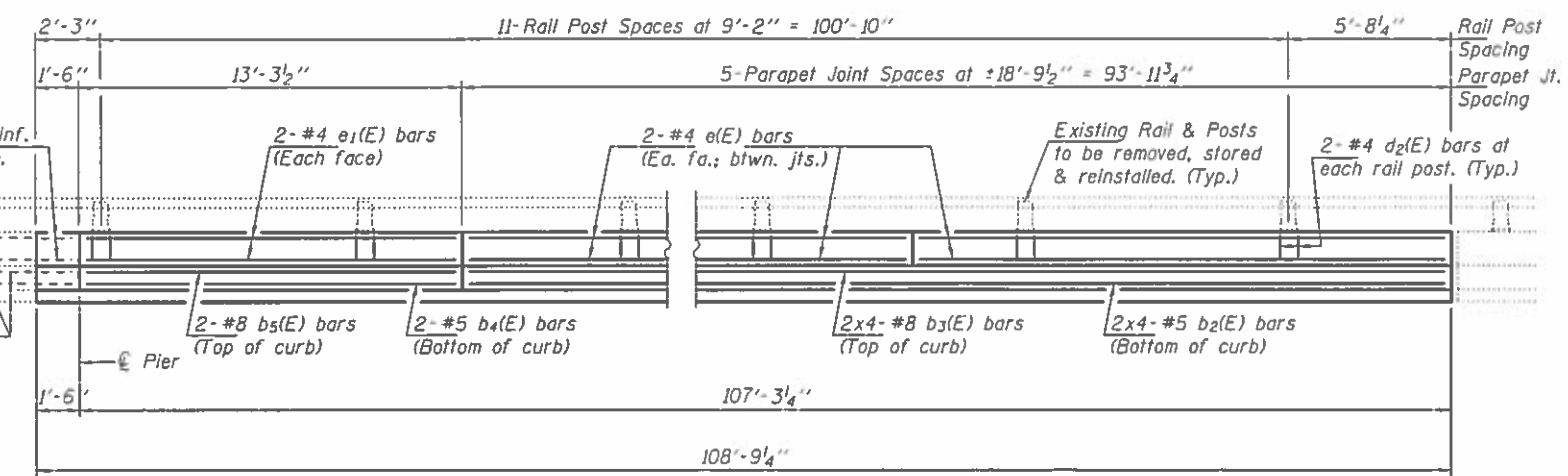
| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|---------|-------|
| d(E) | 308 | #5 | 4'-8" | — |
| a1(E) | 16 | #5 | 4'-9" | — |
| a2(E) | 162 | #6 | 4'-0" | — |
| a3(E) | 156 | #5 | 3'-10" | — |
| b(E) | 56 | #5 | 29'-8" | — |
| b1(E) | 12 | #7 | 22'-10" | — |
| b2(E) | 16 | #5 | 25'-10" | — |
| b3(E) | 16 | #8 | 27'-9" | — |
| b4(E) | 4 | #5 | 13'-0" | — |
| b5(E) | 4 | #8 | 13'-0" | — |
| b6(E) | 70 | #5 | 24'-5" | — |
| d1(E) | 220 | #4 | 4'-4" | L |
| d2(E) | 48 | #4 | 2'-1" | □ |
| e(E) | 40 | #4 | 18'-6" | — |
| e1(E) | 8 | #4 | 13'-0" | — |
| s(E) | 2 | #4 | 12'-0" | ┌┐ |
| x(E) | 8 | #6 | 8'-2" | — |
| Concrete Removal | | Cu. Yd. | 69.8 | |
| Concrete Superstructure | | Cu. Yd. | 69.8 | |
| Mechanical Splicers | | Each | 532 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 11,550 | |

MIN. LAP LENGTHS

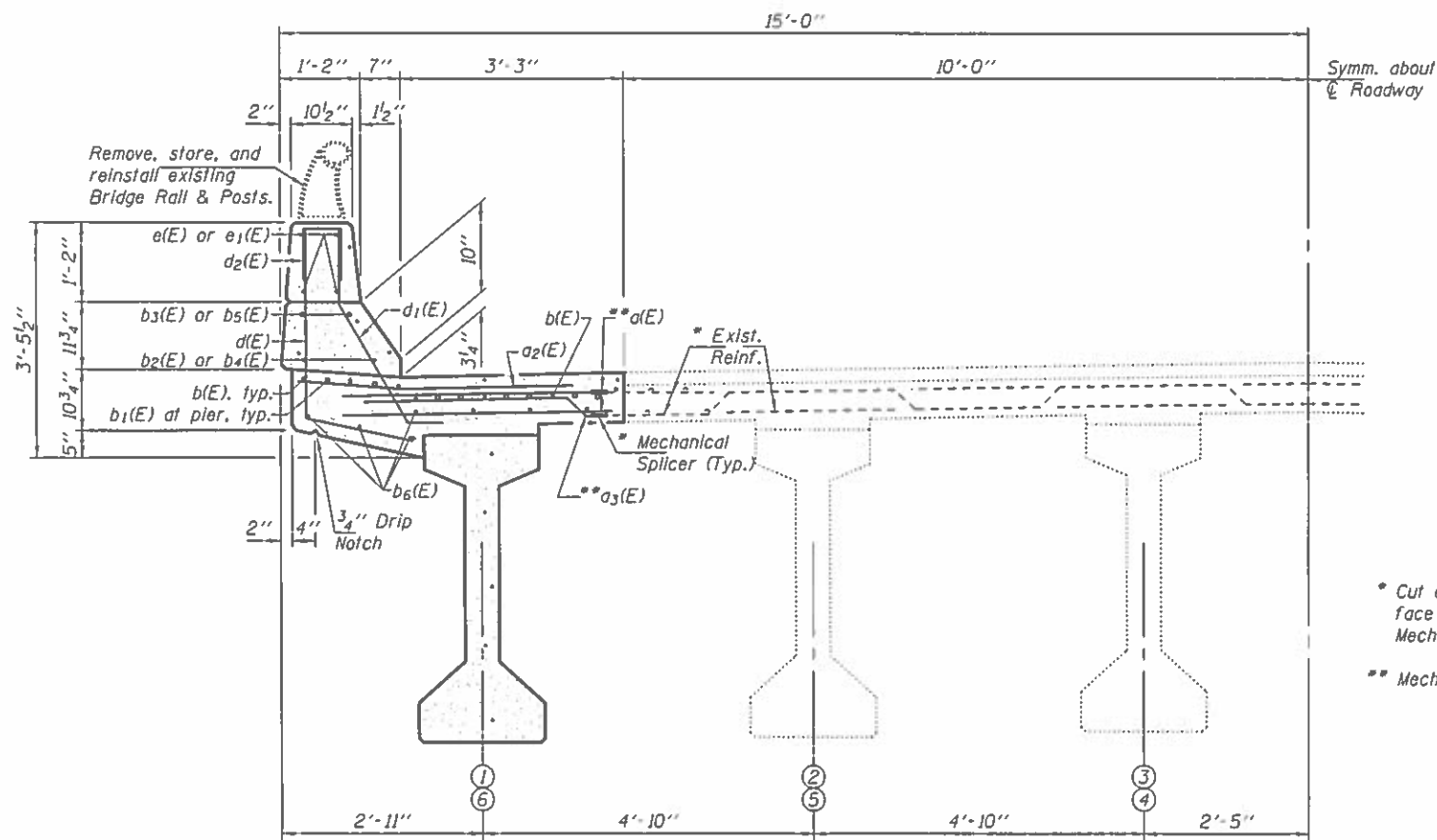
- #5 Bars = 2'-11" (Parapet)
- #5 Bars = 3'-4" (Deck)
- #8 Bars = 5'-6" (Parapet)



**DEAD LOAD DEFLECTION DIAGRAM
(For Fillet Adjustment)**

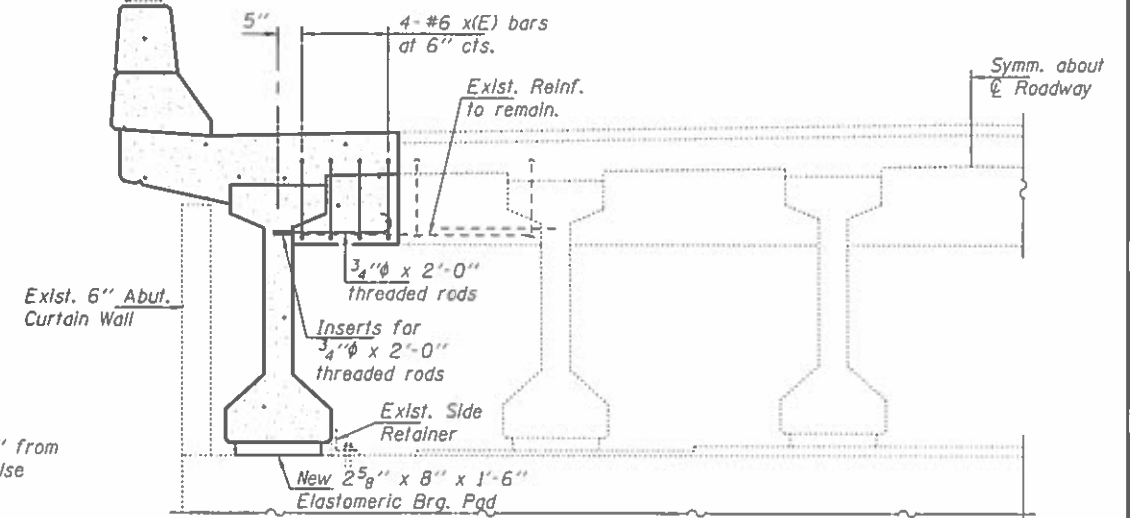


**PARTIAL INSIDE ELEVATION
PARAPET REMOVAL & REPLACEMENT**
North Parapet shown, South Parapet similar.



SECTION A-A

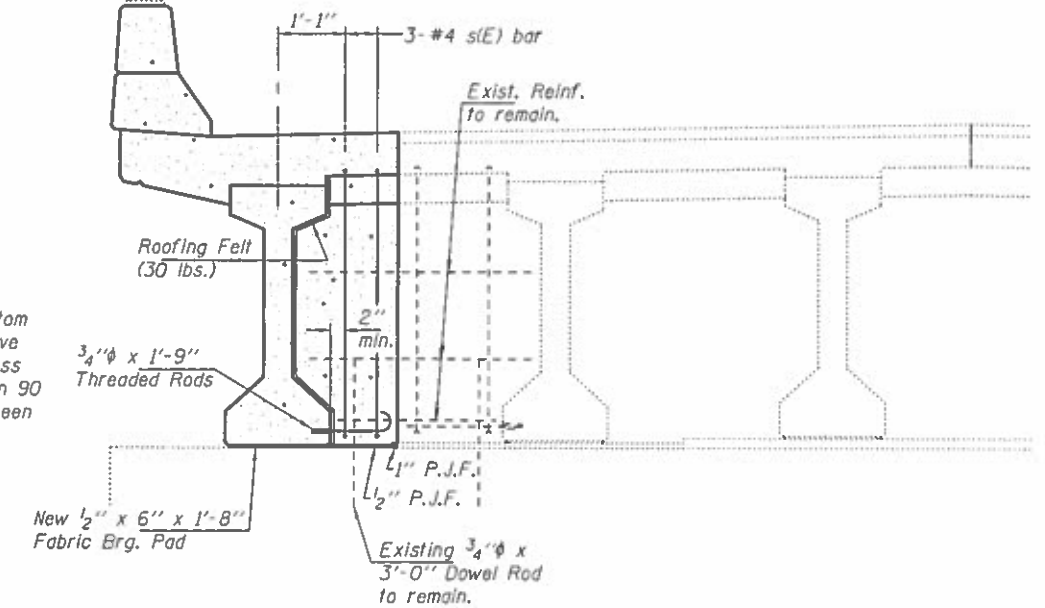
Remove, store, and reinstall existing Bridge Rail & Posts.



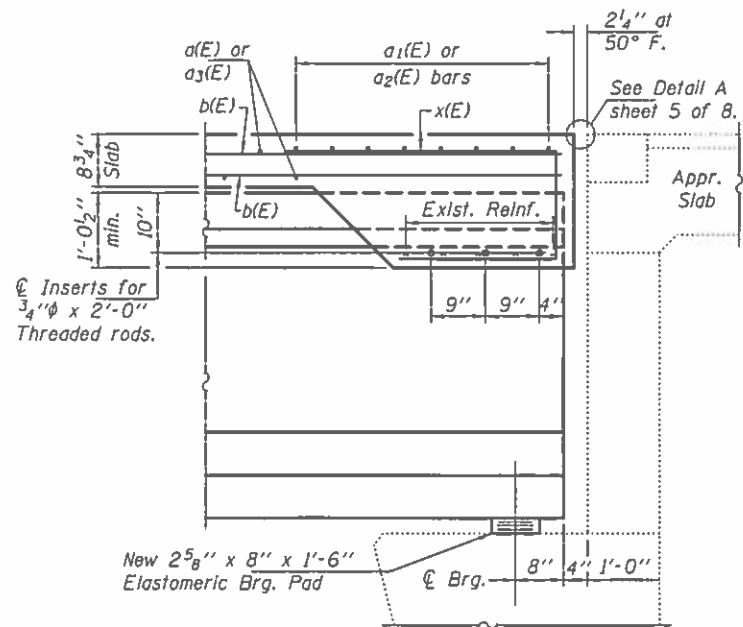
SECTION B-B

- * Cut existing reinforcement 6" from face of Concrete Removal. Use Mechanical Splicers.
- ** Mechanically Splice to existing #5 bars.

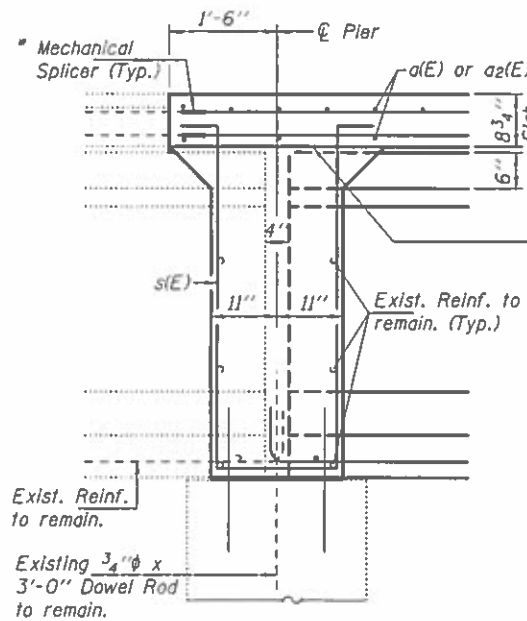
Remove, store, and reinstall existing Bridge Rail & Posts.



SECTION C-C



SECTION D-D



SECTION E-E

Pour diaphragm flush with bottom of slab. Concrete in slab above this line shall be placed not less than 45 minutes nor more than 90 minutes after diaphragm has been poured. (Typ.)

DESIGNED - JSB
CHECKED - SMR
DRAWN - Kyle M. Steffen
CHECKED - JSB SMR

EXAMINED
PASSED

INTEGRITY A. A. G. T.
ENGINEER OF STRUCTURAL SERVICES

ENGINEER OF BRIDGES AND STRUCTURES

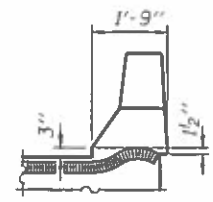
DATE - FEBRUARY 8, 2018
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

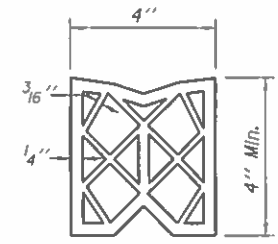
REPAIR DETAILS
SN 071-0061

SHEET NO. 4 OF 8 SHEETS

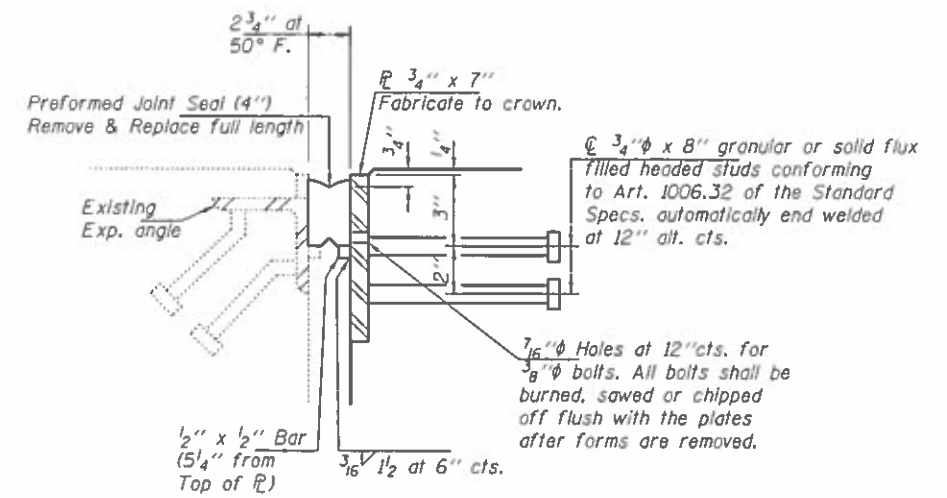
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 39 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



END OF SEAL TREATMENT

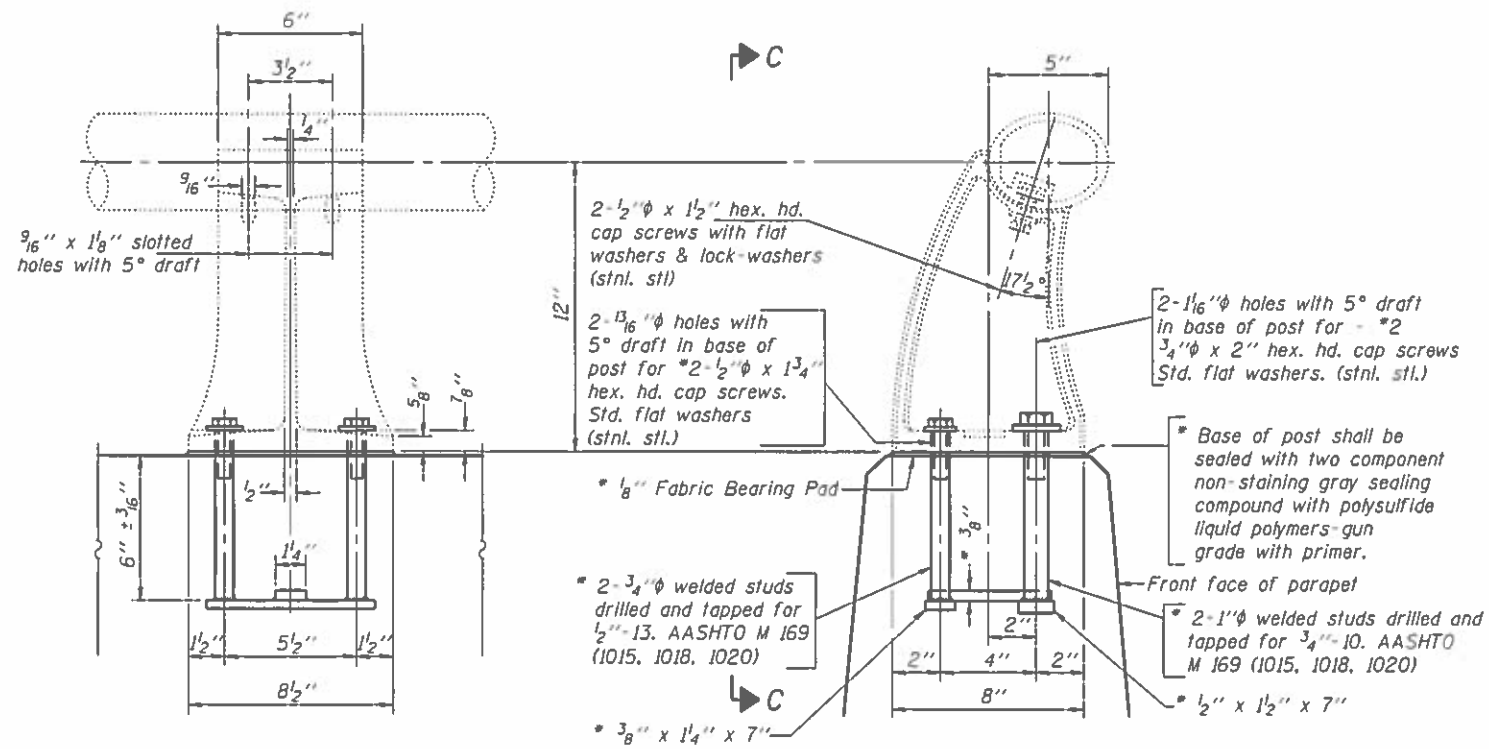


PREFORMED JOINT SEALER (4'')



DETAIL A

Cost of Steel R's & Studs included with Concrete Superstructure.



RAIL POST ANCHORAGE DEVICE DETAILS

(24-Required)

* New Rail Post anchorage devices will be required at each location where posts are connected to new construction. Cost shall be included with Concrete Superstructure.

| |
|-------------------------|
| DESIGNED - JSB |
| CHECKED - SMR |
| DRAWN - Kyle M. Steffen |
| CHECKED - JSB SMR |

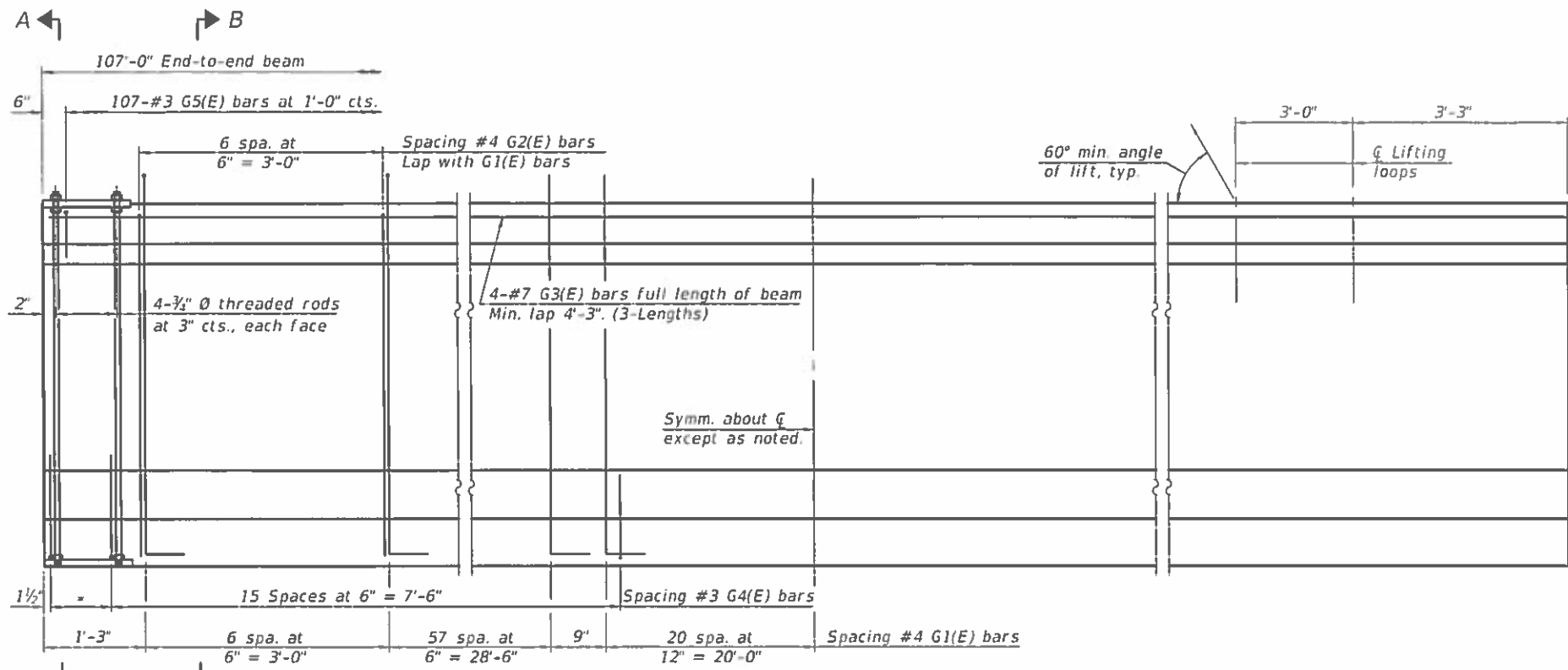
| | |
|----------|---|
| EXAMINED | <i>Timothy A. Anhalt</i> ENGINEER OF STRUCTURAL SERVICES |
| PASSED | <i>Carl Perry</i> ENGINEER OF BRIDGES AND STRUCTURES |

| |
|-------------------------|
| DATE - FEBRUARY 8, 2018 |
| REVISED |
| REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

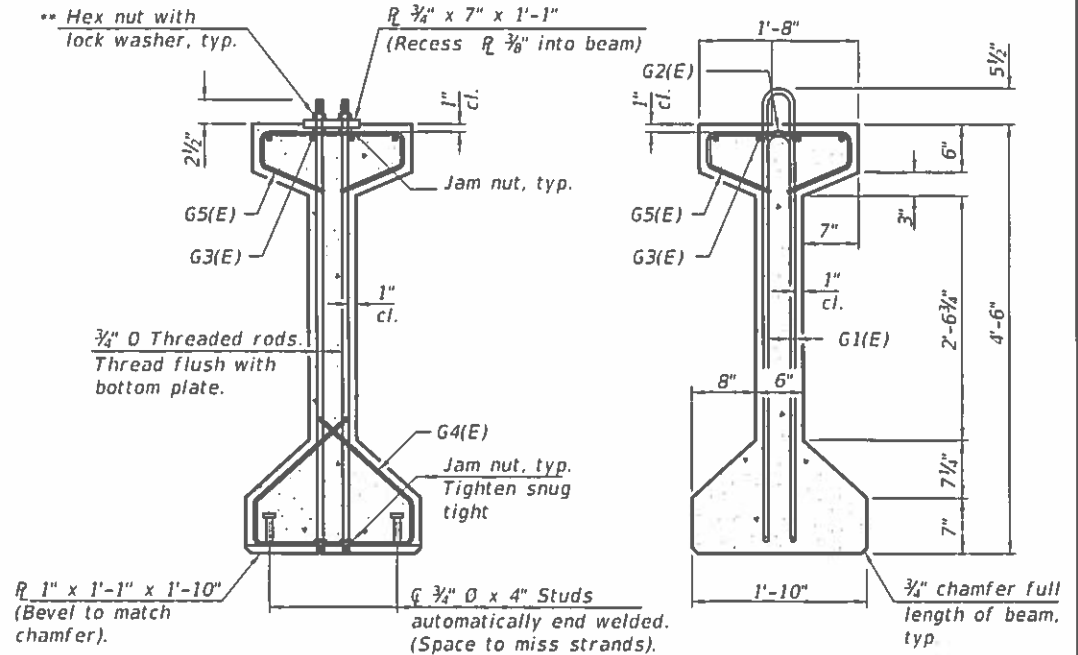
| | |
|-------------------------|--|
| REPAIR DETAILS | |
| SN 071-0061 | |
| SHEET NO. 5 OF 8 SHEETS | |

| | | | | |
|---------------------------|---------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BR | OGLE | 70 | 40 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

*3 spaces at 3" = 9"



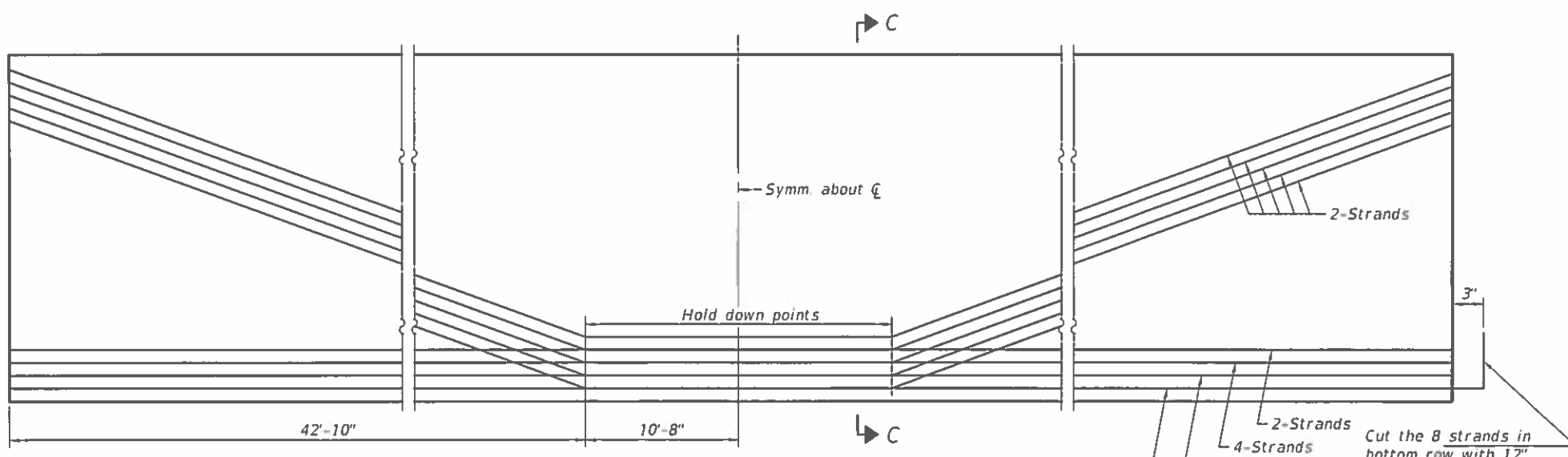
SECTION A-A
** Only tighten sufficiently to compress lock washers

SECTION B-B

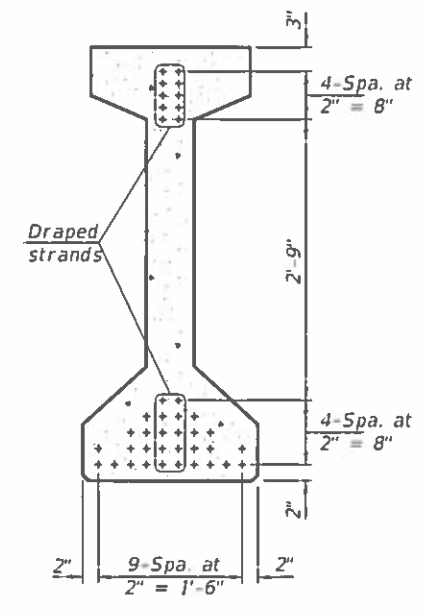
BAR LIST
ONE BEAM ONLY
(For information only)

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| G1(E) | 169 | #4 | 10'-7" | ∩L |
| G2(E) | 14 | #4 | 8'-8" | ∩ |
| G3(E) | 12 | #7 | 38'-6" | — |
| G4(E) | 38 | #3 | 4'-11" | ∩ |
| G5(E) | 107 | #3 | 3'-5" | ∩ |

Notes:
See sheet 7 of 8 for additional details and Bill of Material.



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(30-1/2" Ø 270 ksi strands)

PI-4-54 2-17-2017

| | | |
|-------------------------|---------------------------------------|-------------------------|
| DESIGNED - JSB | EXAMINED - <i>Timothy A. Anagnost</i> | DATE - FEBRUARY 8, 2018 |
| CHECKED - SMR | ENGINEER OF STRUCTURAL SERVICES | |
| DRAWN - Kyle M. Steffen | PASSED - <i>Carl Pappas</i> | REVISED |
| CHECKED - JSB SMR | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" PPC I-BEAM DETAILS
SN 071-0061

SHEET NO. 6 OF 8 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-----------------|--------|---------------------------|-----------|
| 39 | (141)-1HB-2IBRR | OGLE | 70 | 41 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |

NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

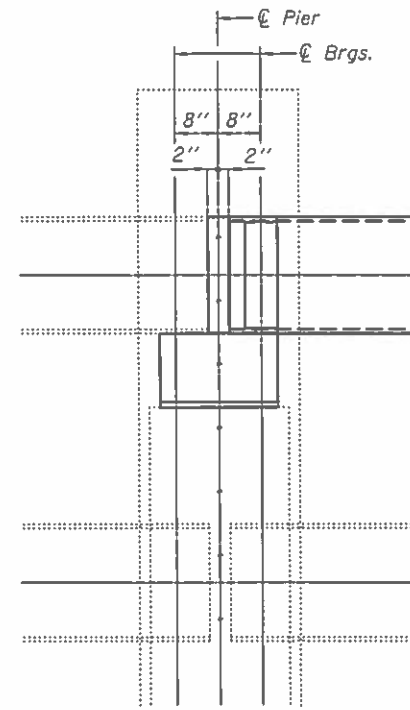
The beams shall have a final concrete compressive strength, f'c, of 6,000 psi and a release concrete compressive strength, f'ci, of 5,000 psi.

A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50.

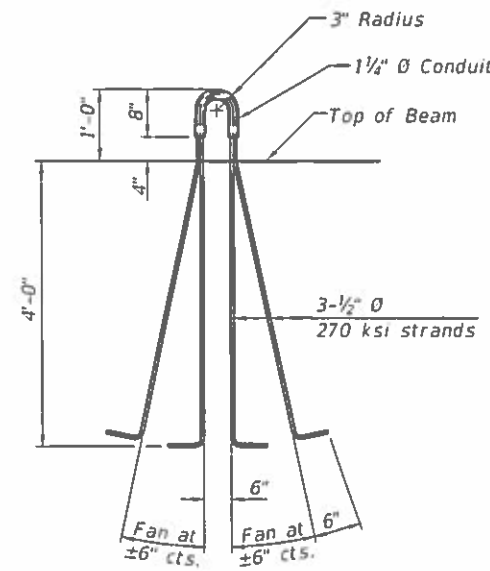
The top and bottom plates shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55.

The G6(E) bar assembly shall develop, in tension, at least 125 percent of the yield strength of a grade 60 reinforcement bar times the nominal cross-sectional area of a #8 bar. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar.

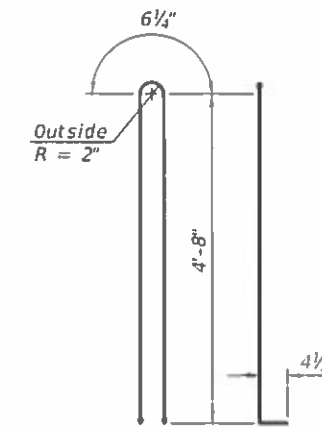
Beams shall not be released from the fabricator until they have attained 45 days of age or older.



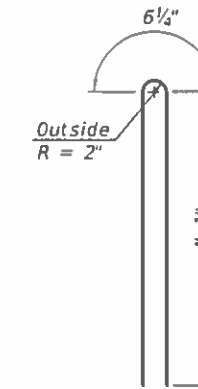
PLAN OF BEAM AT PIER



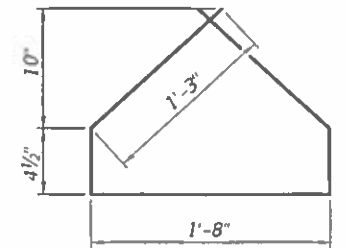
LIFTING LOOP DETAIL



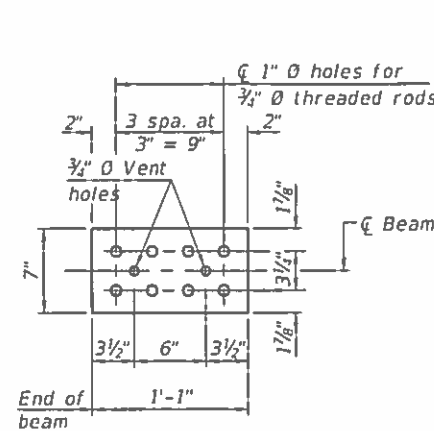
BAR G1(E)



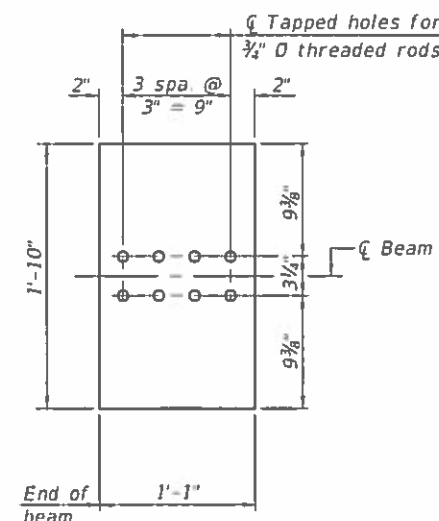
BAR G2(E)



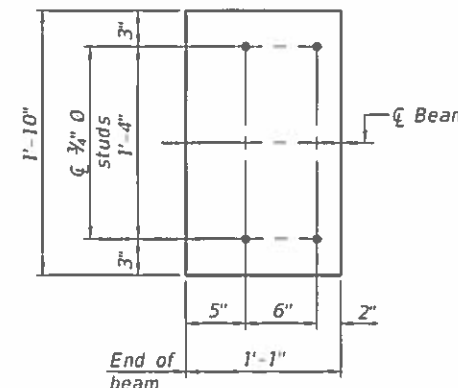
BAR G4(E)



TOP PLATE

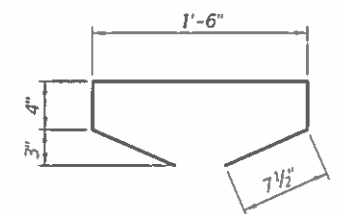


**BOTTOM PLATE
(Showing threaded rods)**



**BOTTOM PLATE
(Showing studs)**

See bearing details for pintle hole locations when required.



BAR G5(E)

BILL OF MATERIAL

| Item | Unit | Total |
|---|------|-------|
| Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54" | Ft. | 214 |

PI-4-54D 2-17-2017

| | |
|-------------------------|------------------------------------|
| DESIGNED - JSB | EXAMINED - <i>Limy A. Angh</i> |
| CHECKED - SMR | ENGINEER OF STRUCTURAL SERVICES |
| DRAWN - Kyle M. Steffen | PASSED - <i>Carl Ross</i> |
| CHECKED - JSB SMR | ENGINEER OF BRIDGES AND STRUCTURES |

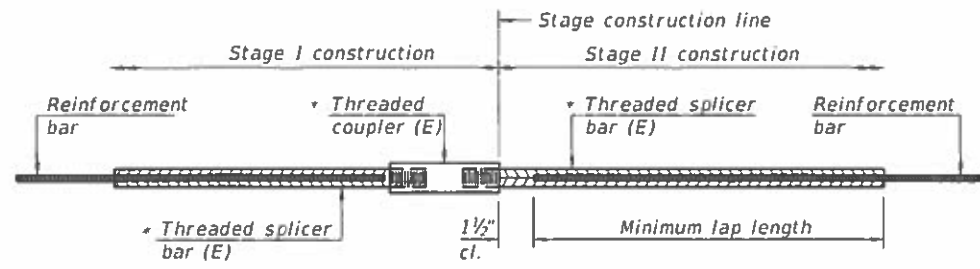
| |
|-------------------------|
| DATE - FEBRUARY 8, 2018 |
| REVISED |
| REVISED |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**54" PPC I-BEAM DETAILS
SN 071-0061**

SHEET NO. 7 OF 8 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-IHB-2)BRR | OGLE | 70 | 42 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

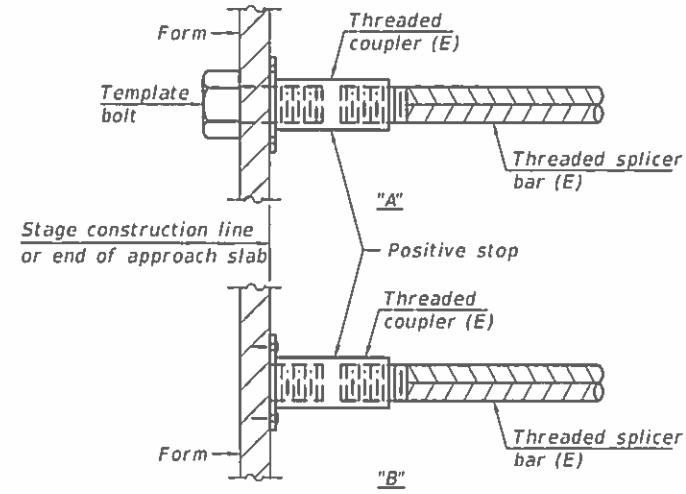


STANDARD BAR SPLICER ASSEMBLY

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

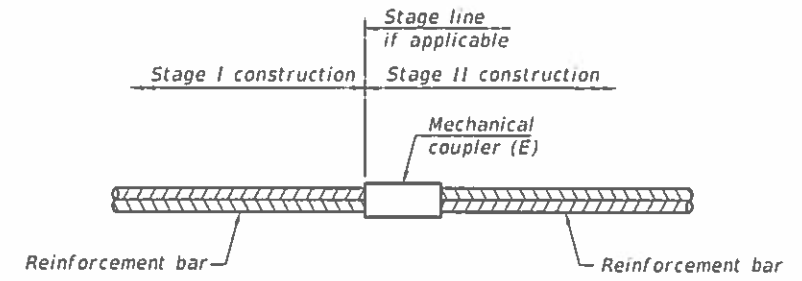
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Minimum lap length |
|----------|----------|-------------------------|--------------------|
| | | | |
| | | | |
| | | | |
| | | | |



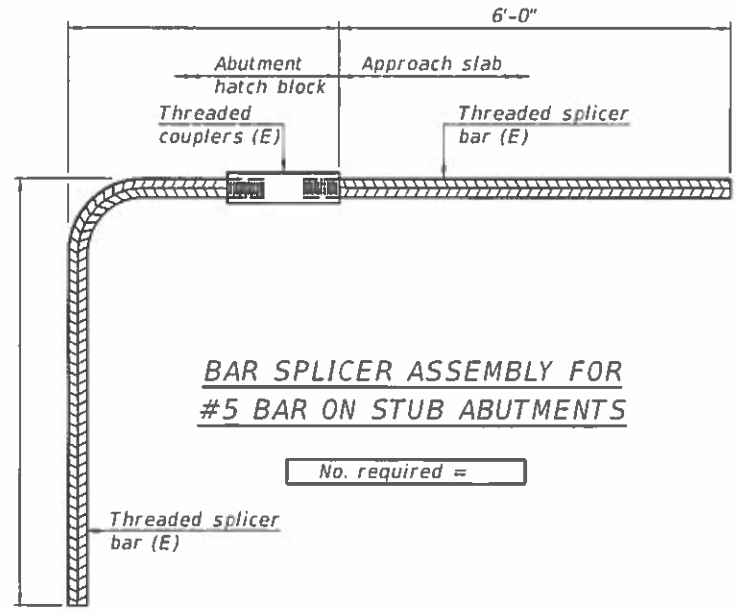
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| Deck | #5 | 508 |
| Deck | #7 | 16 |
| Parapet | #5 | 4 |
| Parapet | #8 | 4 |



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

2-17-2017

| | | |
|-------------------------|-------------------------------------|-------------------------|
| DESIGNED - JSB | EXAMINED - <i>Timothy A. Anhalt</i> | DATE - FEBRUARY 8, 2018 |
| CHECKED - SMR | ENGINEER OF STRUCTURAL SERVICES | |
| DRAWN - Kyle M. Steffen | PASSED - <i>Carl Perry</i> | REVISED |
| CHECKED - JSB SMR | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

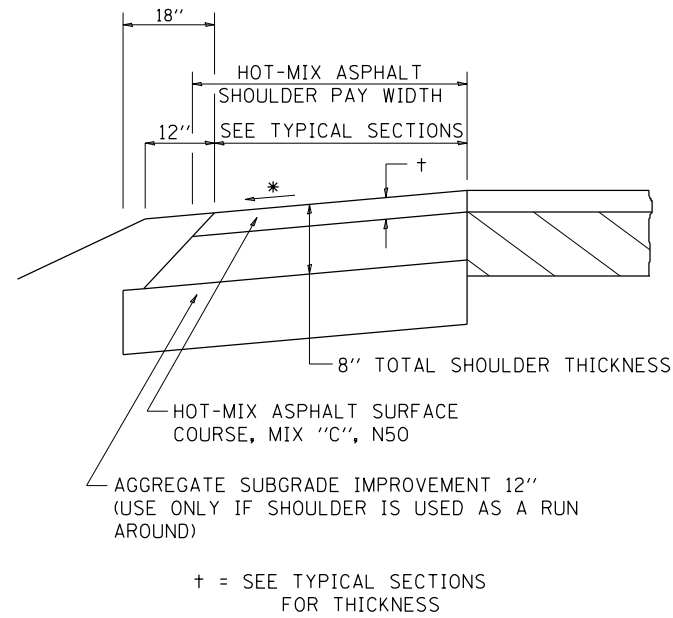
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
 SN 071-0061

SHEET NO. 8 OF 8 SHEETS

| | | | | |
|--------------------|------------------------|-------------|---------------------------|--------------|
| F.A.T. RTE. 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 43 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 1-05-16
REVISED - 3-13-13

HOT-MIX ASPHALT SHOULDER 22.4

TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING)

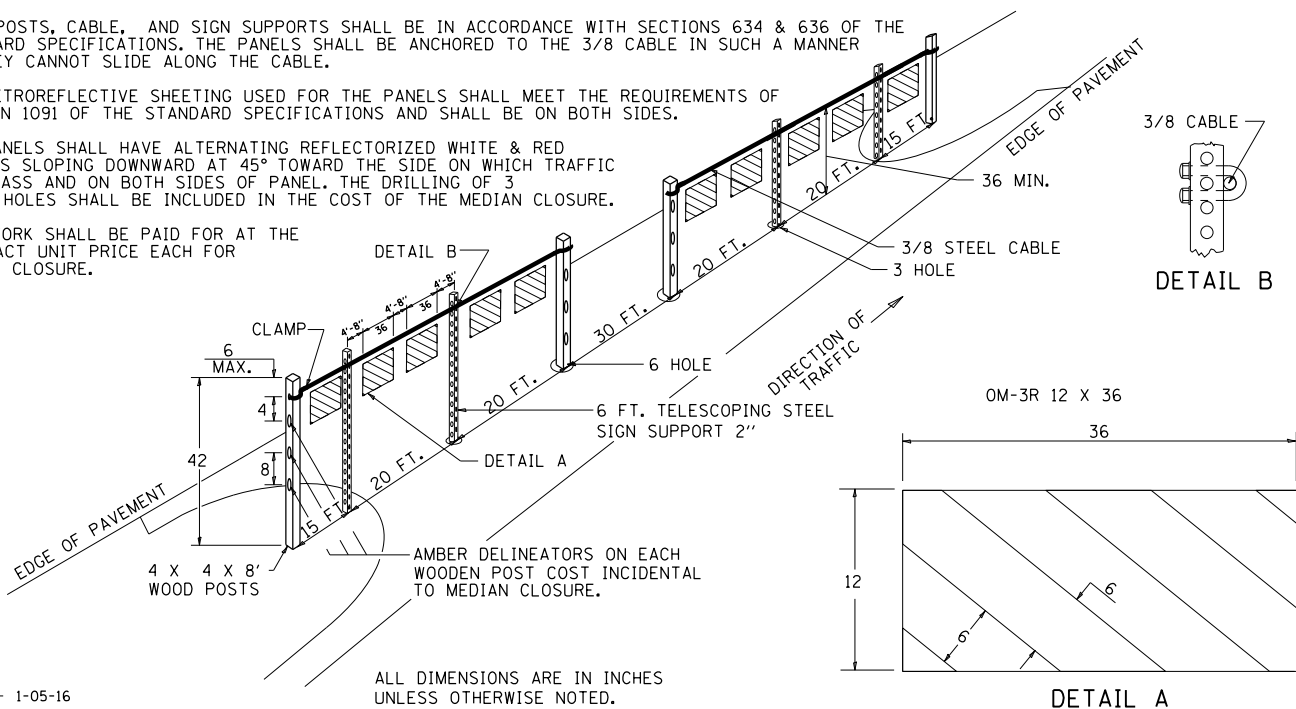
GENERAL NOTES

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTIONS 634 & 636 OF THE STANDARD SPECIFICATIONS. THE PANELS SHALL BE ANCHORED TO THE 3/8 CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE RETROREFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3 AND 6 HOLES SHALL BE INCLUDED IN THE COST OF THE MEDIAN CLOSURE.

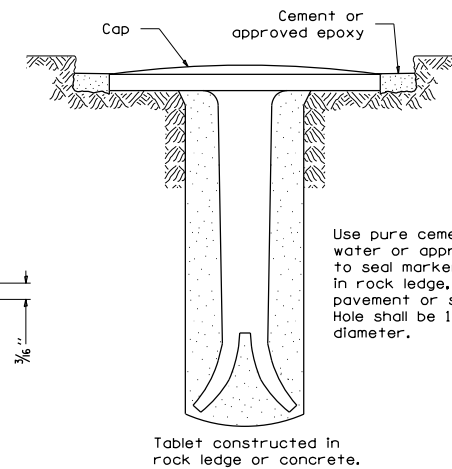
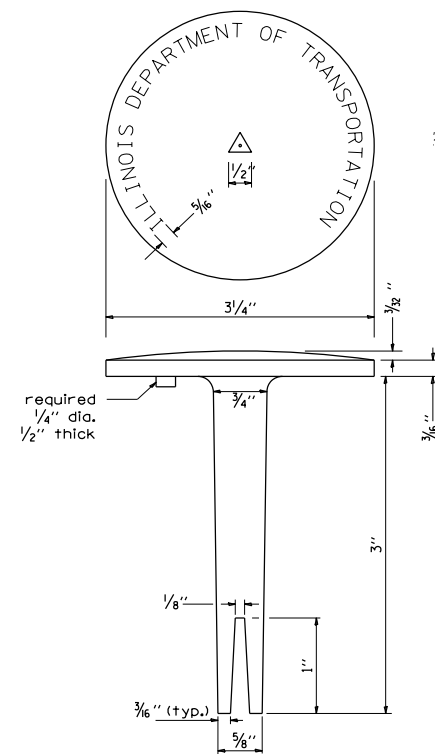
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.



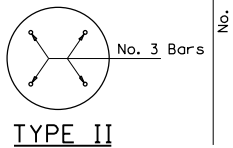
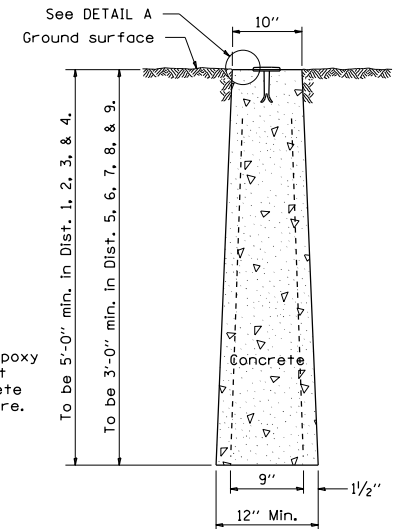
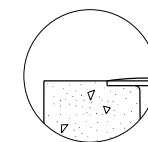
REVISED - 1-05-16
REVISED - 1-17-12

TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING) 87.4

PERMANENT SURVEY MARKERS, TYPE II



TYPE II



CAST-IN-PLACE MARKER

Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 1/2" diameter.

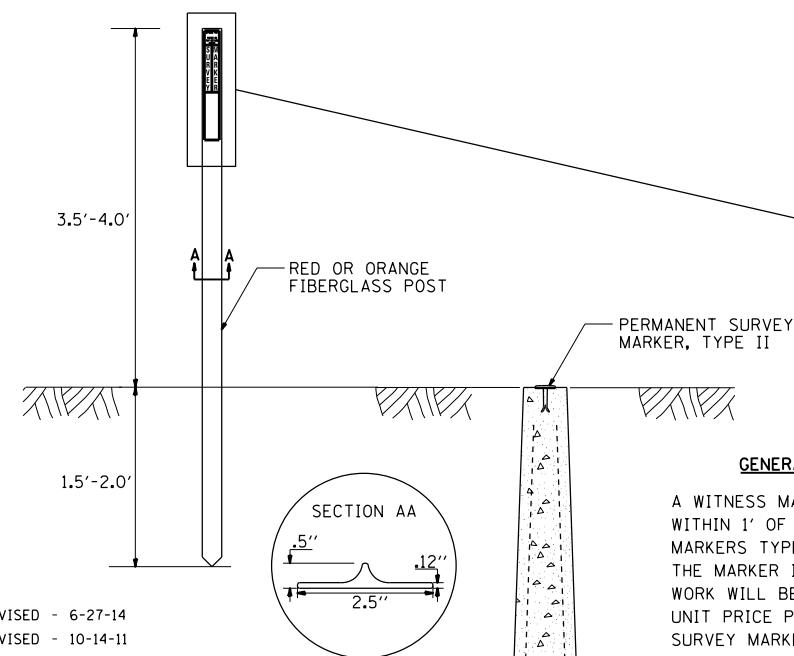
No. 3 bars to be 30" for 36" min. & 3'-6" for 4'-0" min.

BRASS OR ALUMINUM TABLET

DETAIL A

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

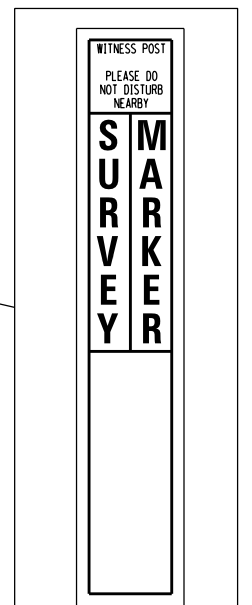
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



REVISED - 6-27-14
REVISED - 10-14-11

GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.



PERMANENT SURVEY MARKERS, TYPE II 66.2

FILE = S:\PROJECTS\2017\1378017_PTB-181-8\DESIGN\TRANS\WO #3\1378017-District_Details.dgn



WILLETT HOFMANN ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
180 EAST 2ND STREET, DIXON, IL 61011-0367
715-234-3351 DESIGN PERM 1184-00018

USER NAME = TYLER
DESIGNED -
DRAWN -
PLOT SCALE = 24.0000' / ft.
CHECKED -
PLOT DATE = 6/20/2018
DATE -

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

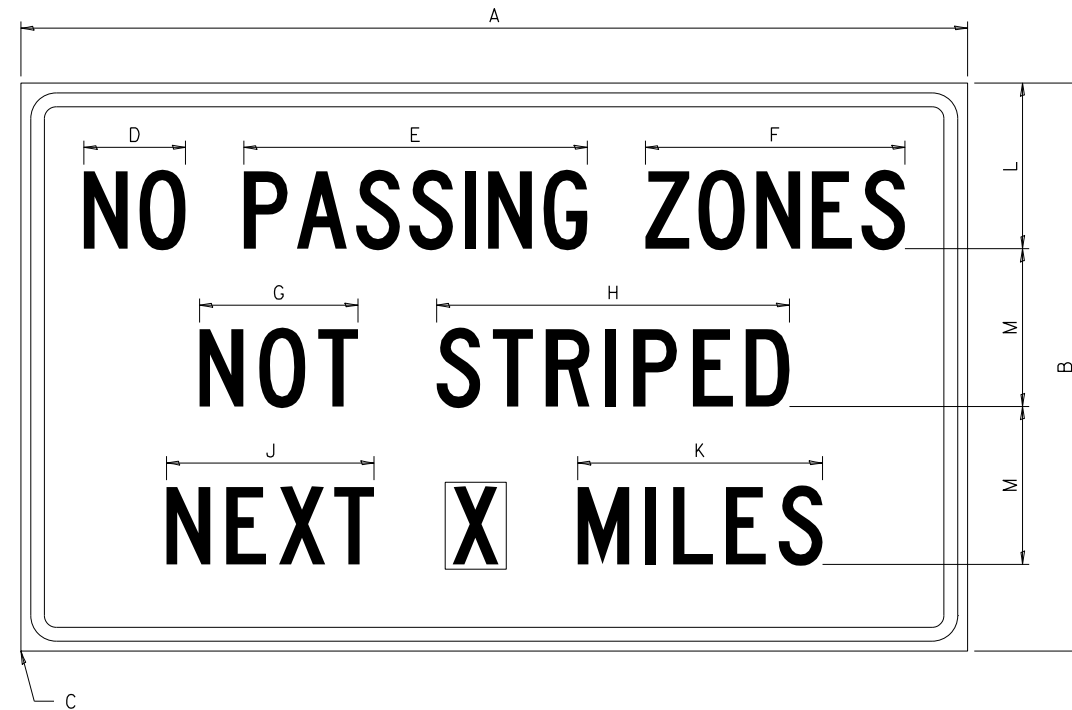
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 1 OF 13 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 44 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



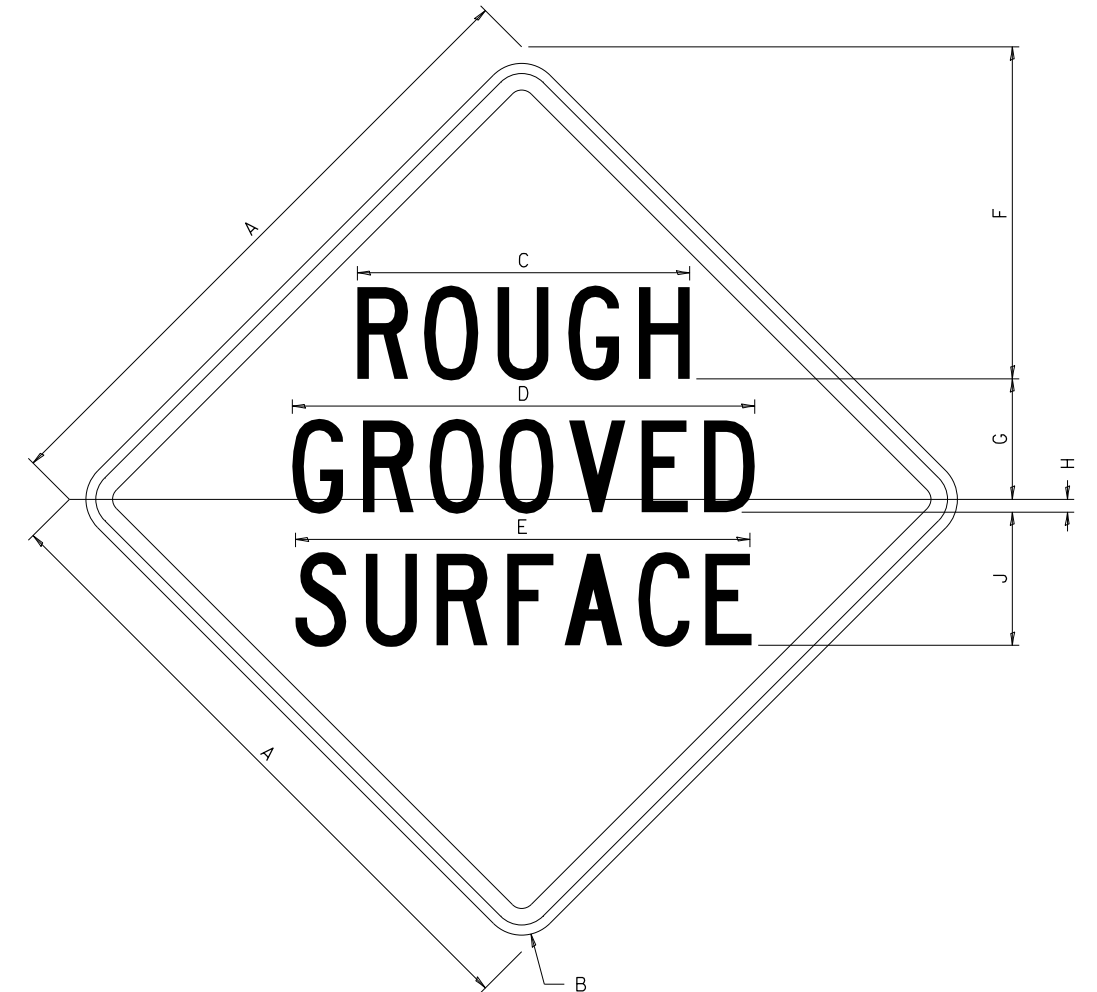
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

| SIGN SIZE | DIMENSIONS | | | | | | | | | | | |
|-----------|------------|-------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| | A | B | C | D | E | F | G | H | J | K | L | M |
| 60 x 36 | 60.00 | 36.00 | 2.25 | 6.4 | 21.80 | 16.40 | 10.00 | 22.40 | 13.20 | 15.50 | 10.50 | 10.00 |

| SIGN SIZE | SERIES BY LINE | | | MARGIN | BORDER |
|-----------|----------------|----|----|--------|--------|
| | 1 | 2 | 3 | | |
| 60 x 36 | 5C | 5C | 5C | 0.625 | 0.875 |

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

| SIGN SIZE | DIMENSIONS | | | | | | | | |
|-----------|------------|------|-------|-------|-------|-------|------|------|-------|
| | A | B | C | D | E | F | G | H | J |
| 48 x 48 | 48.00 | 3.00 | 25.00 | 34.80 | 34.20 | 24.94 | 9.00 | 1.00 | 10.00 |

| SIGN SIZE | SERIES BY LINE | | | MARGIN | BORDER |
|-----------|----------------|----|----|--------|--------|
| | 1 | 2 | 3 | | |
| 48 x 48 | 7C | 7C | 7C | 1.250 | 0.750 |

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REGION 2 / DISTRICT 2 STANDARD

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 46 |
| CONTRACT NO. 64M77 | | | | |

SCALE SHEET 3 OF 13 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

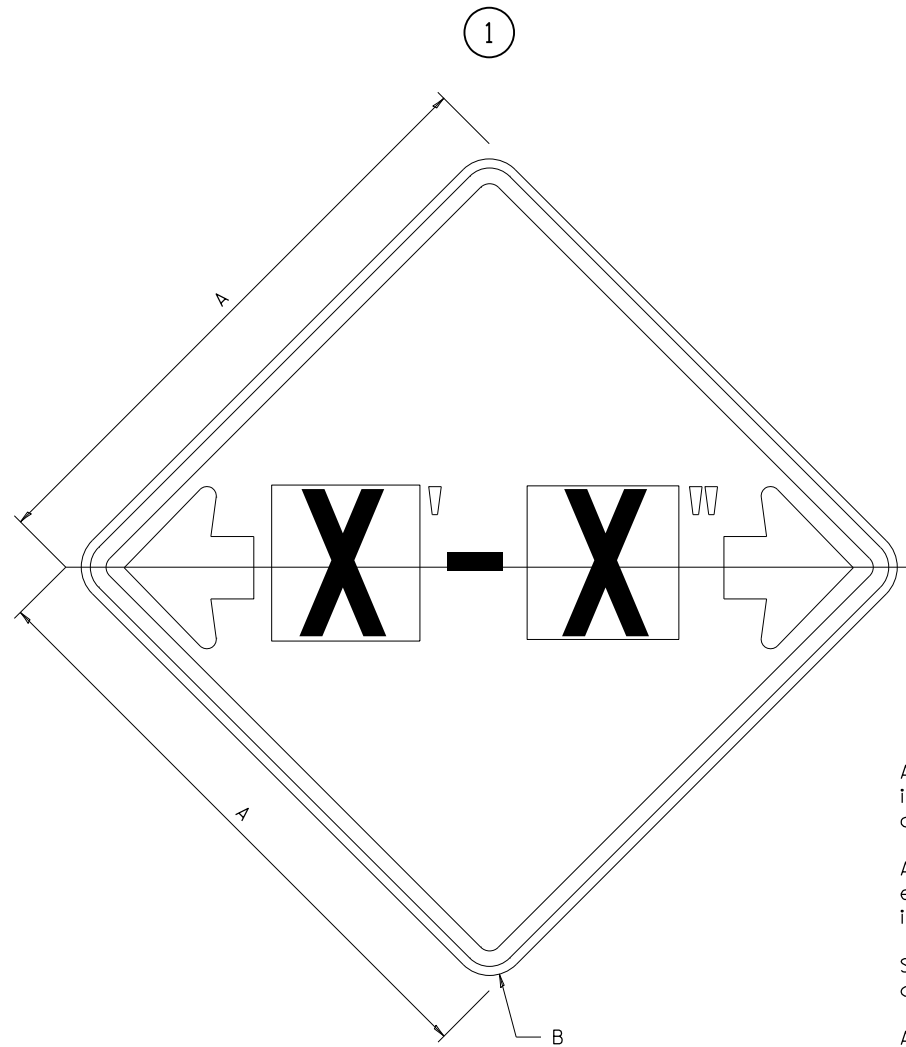
FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_District_Details.dgn



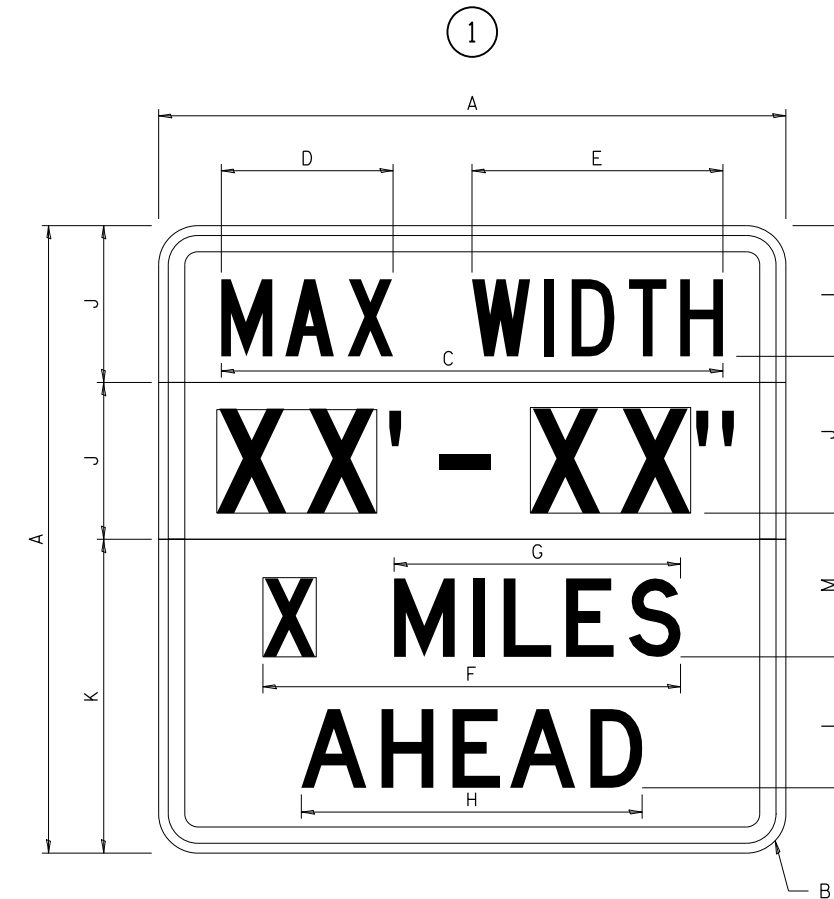
| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 3-02-16 |
| | DRAWN - | REVISED - |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

| SIGN SIZE | DIMENSIONS | |
|-----------|------------|------|
| | A | B |
| 48 x 48 | 48.00 | 3.00 |

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

| SIGN SIZE | SERIES BY LINE | MARGIN | BORDER |
|-----------|----------------|--------|--------|
| | 1 | | |
| 48 x 48 | 12C | 0.750 | 1.250 |

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

| SIGN SIZE | DIMENSIONS | | | | | | | | | | | |
|-----------|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | A | B | C | D | E | F | G | H | J | K | L | M |
| 48 x 48 | 48.00 | 3.00 | 38.40 | 13.20 | 19.20 | 32.00 | 22.00 | 26.20 | 12.00 | 24.00 | 10.00 | 11.00 |

| SIGN SIZE | SERIES BY LINE | | | | MARGIN | BORDER |
|-----------|----------------|----|----|----|--------|--------|
| | 1 | 2 | 3 | 4 | | |
| 48 x 48 | 6C | 8D | 6D | 6D | 0.750 | 1.250 |

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\W0 #3\1378017-District_Details.dgn



| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 3-02-16 |
| | DRAWN - | REVISED - |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

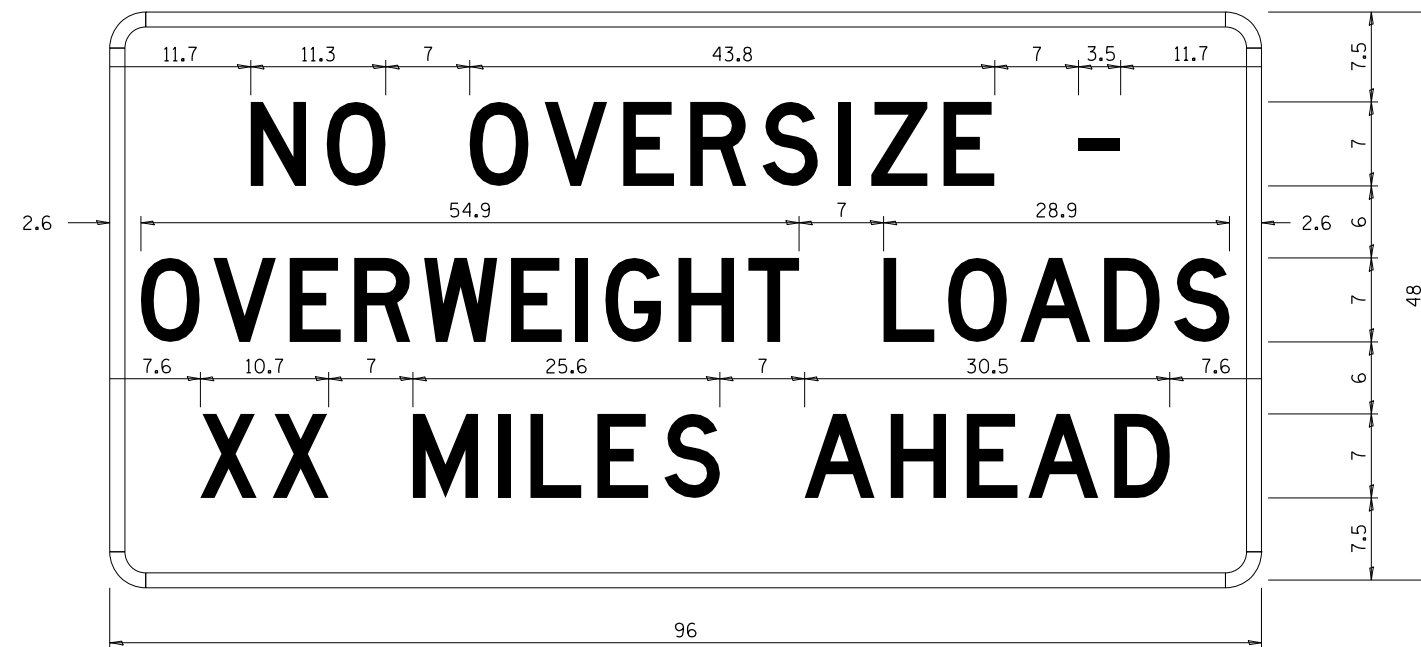
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 4 OF 13 SHEETS STA. TO STA.

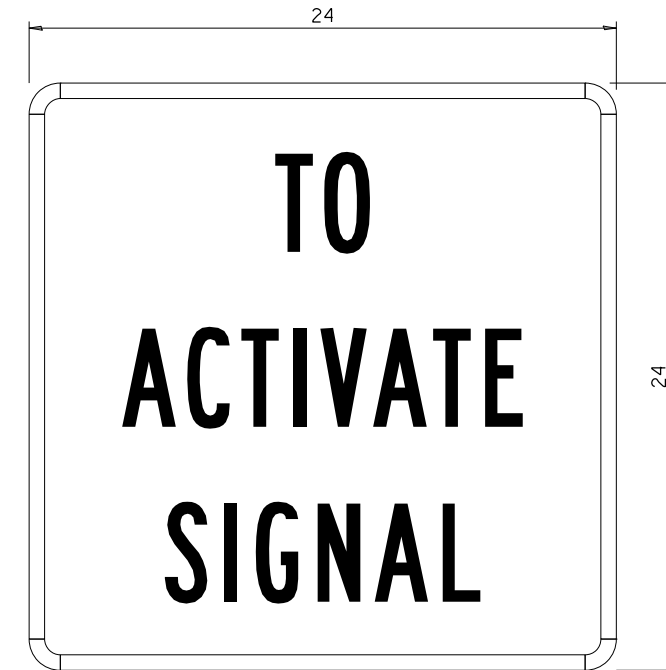
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 47 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



STOP LINE SIGN FOR TEMPORARY SIGNALS



| | | | |
|-------|------------------------------|--------------|---------------------------------|
| COLOR | LEGEND AND BORDER BACKGROUND | BLACK ORANGE | NON-REFLECTORIZED REFLECTORIZED |
|-------|------------------------------|--------------|---------------------------------|

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|
| N | O | O | V | E | R | S | I | Z | E | - |
| 11.7 | 18.1 | 30.0 | 36.2 | 42.8 | 48.4 | 54.4 | 60.7 | 63.5 | 69.5 | 80.8 |

| | | | | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| O | V | E | R | W | E | I | G | H | T | L | O | A | D | S |
| 2.6 | 8.6 | 15.0 | 20.4 | 26.2 | 33.4 | 38.8 | 41.3 | 47.4 | 53.2 | 64.5 | 69.9 | 75.9 | 82.9 | 88.7 |

| | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|------|
| X | X | M | I | L | E | S | A | H | E | A | D |
| 7.6 | 13.6 | 25.3 | 32.3 | 35.1 | 40.6 | 46.2 | 57.9 | 65.1 | 71.4 | 76.6 | 83.7 |

Sign not to scale

| | | | |
|-------|------------------------------|-------------|---------------------------------|
| COLOR | LEGEND AND BORDER BACKGROUND | BLACK WHITE | NON-REFLECTORIZED REFLECTORIZED |
|-------|------------------------------|-------------|---------------------------------|

| SIGN SIZE | SERIES BY LINE | | |
|-----------|----------------|----|----|
| | 1 | 2 | 3 |
| 24 x 24 | 4C | 4C | 4C |

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_District_Details.dgn



| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 3-02-16 |
| | DRAWN - | REVISED - |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

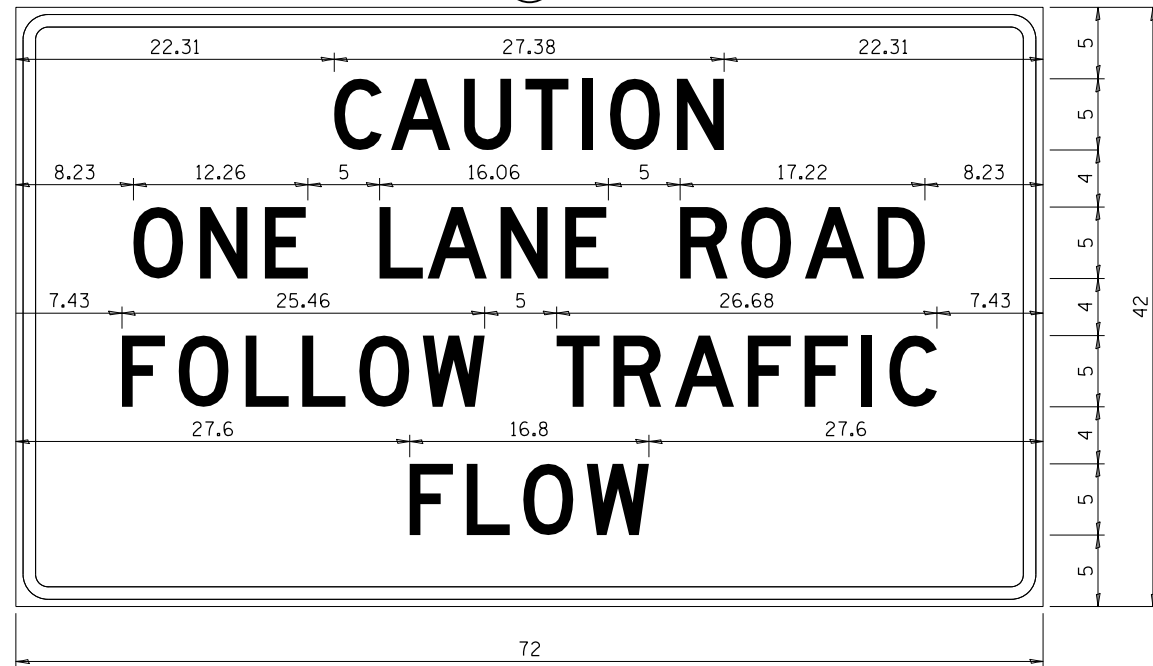
SCALE SHEET 5 OF 13 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 48 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

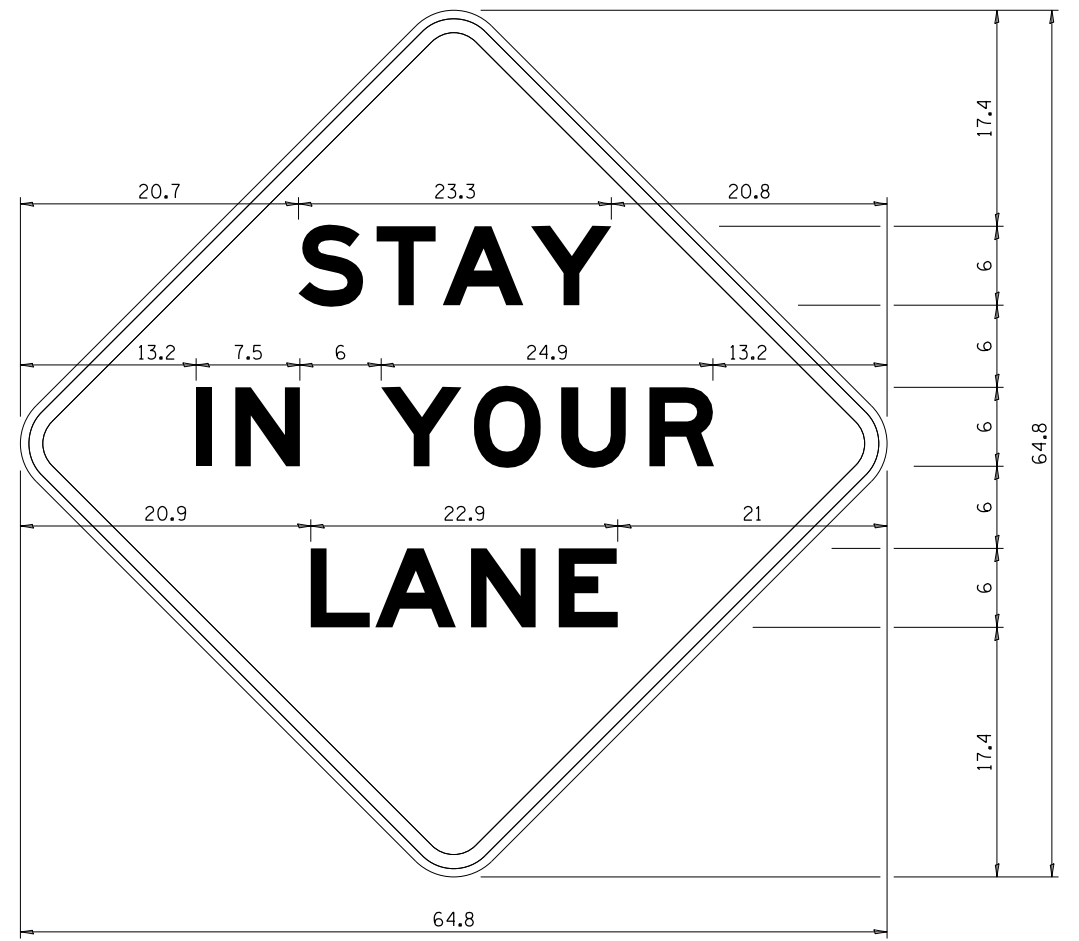
② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

| | | | | | | | | | | | | | | | | | | | | | |
|-------|---|------|------|---|------|------|---|------|------|---|------|-------|---|------|------|---|------|------|---|------|-------|
| 22.31 | C | 3.36 | 0.62 | A | 4.18 | 0.94 | U | 3.36 | 0.94 | T | 3.04 | 0.94 | I | 0.78 | 1.17 | O | 3.52 | 1.17 | N | 3.36 | 22.31 |
| 8.23 | O | 3.51 | 1.17 | N | 3.36 | 1.18 | E | 3.04 | | | | | | | | | | | | | |
| 5.00 | L | 3.05 | 0.31 | A | 4.18 | 0.94 | N | 3.36 | 1.17 | E | 3.05 | | | | | | | | | | |
| 5.00 | R | 3.36 | 0.93 | O | 3.52 | 0.94 | A | 4.18 | 0.93 | D | 3.36 | 8.23 | | | | | | | | | |
| 7.43 | F | 3.04 | 0.94 | O | 3.52 | 1.17 | L | 3.04 | 0.94 | L | 3.05 | 0.94 | O | 3.51 | 0.94 | W | 4.37 | | | | |
| 5.00 | T | 3.05 | 0.94 | R | 3.36 | 0.94 | A | 4.18 | 0.93 | F | 3.05 | 0.94 | F | 3.04 | 0.94 | I | 0.78 | 1.18 | C | 3.35 | 7.43 |
| 27.60 | F | 3.05 | 0.94 | L | 3.04 | 0.94 | O | 3.52 | 0.93 | W | 4.38 | 27.60 | | | | | | | | | |

Sign not to scale

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

| | | | | | |
|------|------|------|------|------|------|
| S | T | A | Y | | |
| 20.7 | 26.8 | 31.6 | 38.0 | | |
| I | N | Y | O | U | R |
| 13.2 | 15.9 | 26.7 | 33.9 | 40.5 | 46.8 |
| L | A | N | E | | |
| 20.9 | 25.8 | 33.1 | 39.4 | | |

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.
All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.
Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.
All dimensions are in inches unless otherwise noted.

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017-District_Details.dgn



| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 3-02-16 |
| | DRAWN - | REVISED - |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

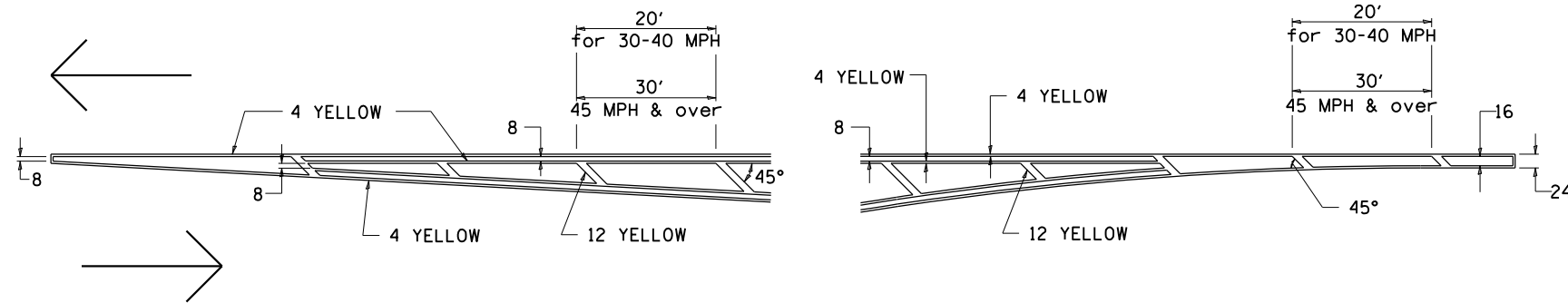
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 6 OF 13 SHEETS STA. TO STA.

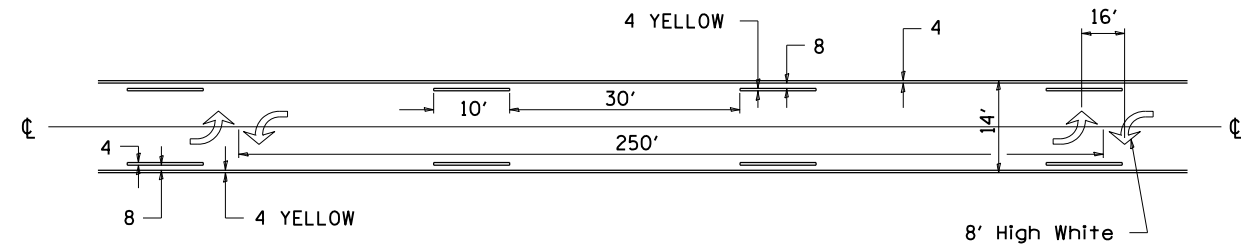
| | | | | |
|---------------------------|----------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 49 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

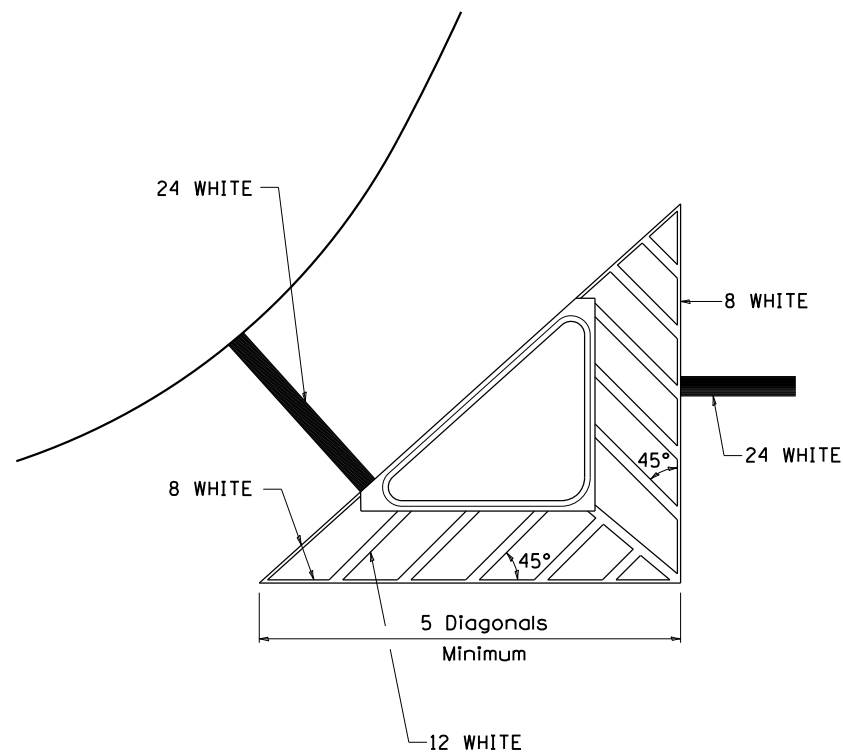


MEDIAN PAVEMENT MARKING



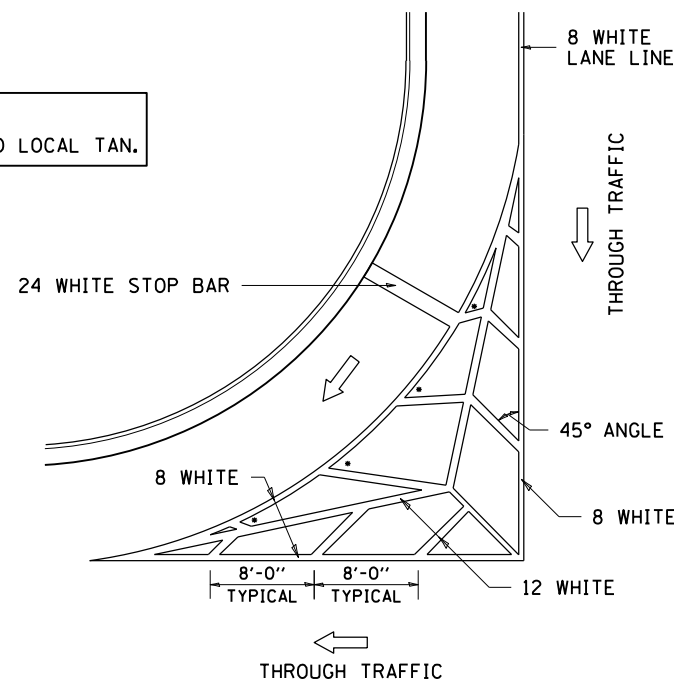
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



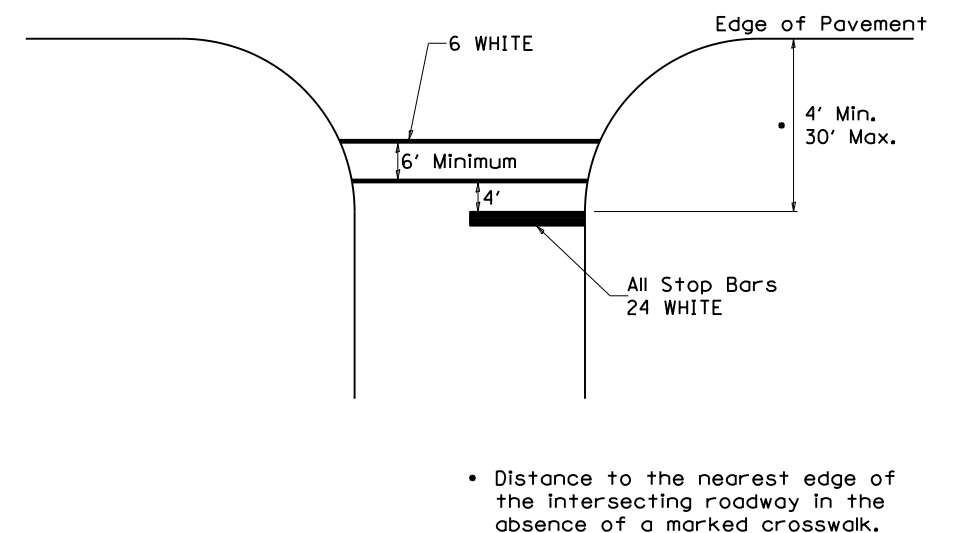
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_District_Details.dgn



| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 6-27-14 |
| | DRAWN - | REVISED - 3-05-12 |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

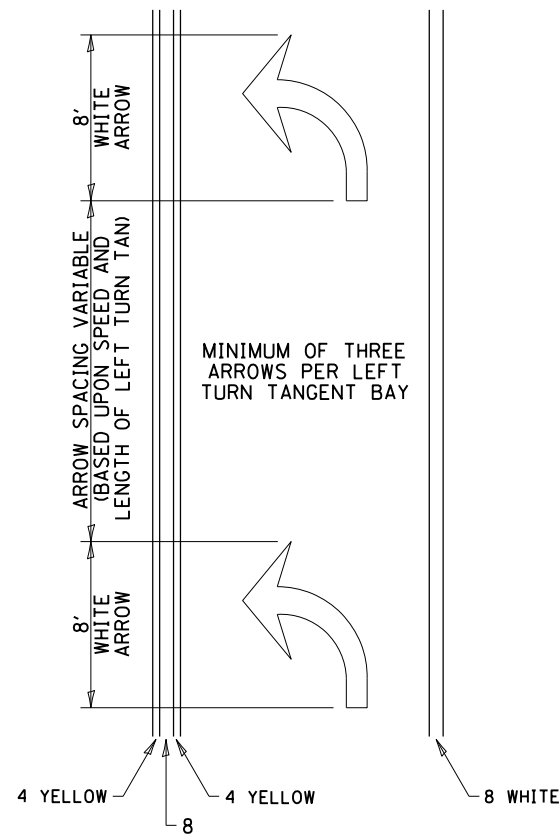
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 8 OF 13 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 50 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TYPICAL PAVEMENT MARKINGS

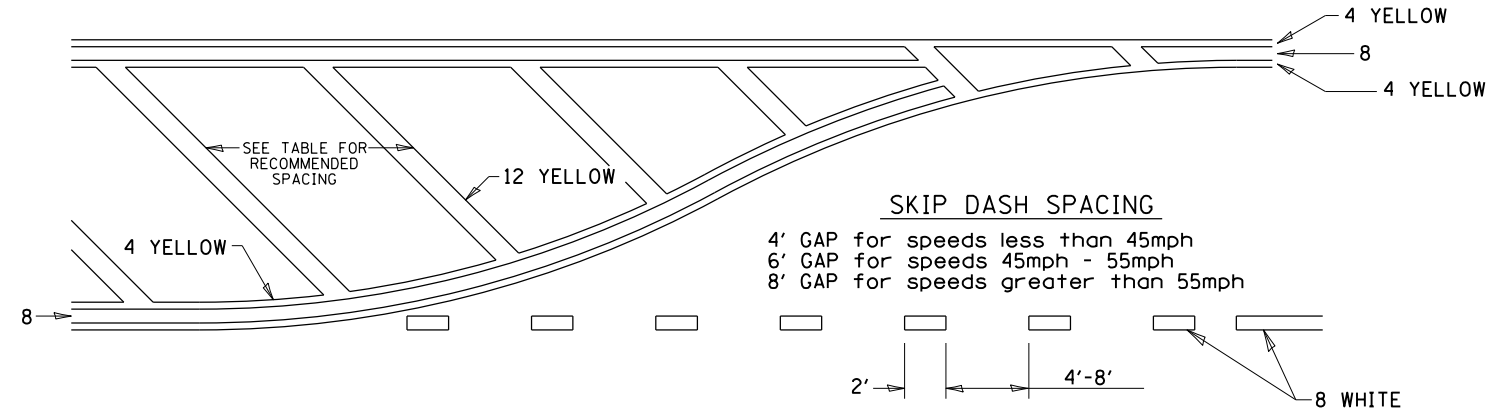
ARROW LAYOUT



- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◇ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

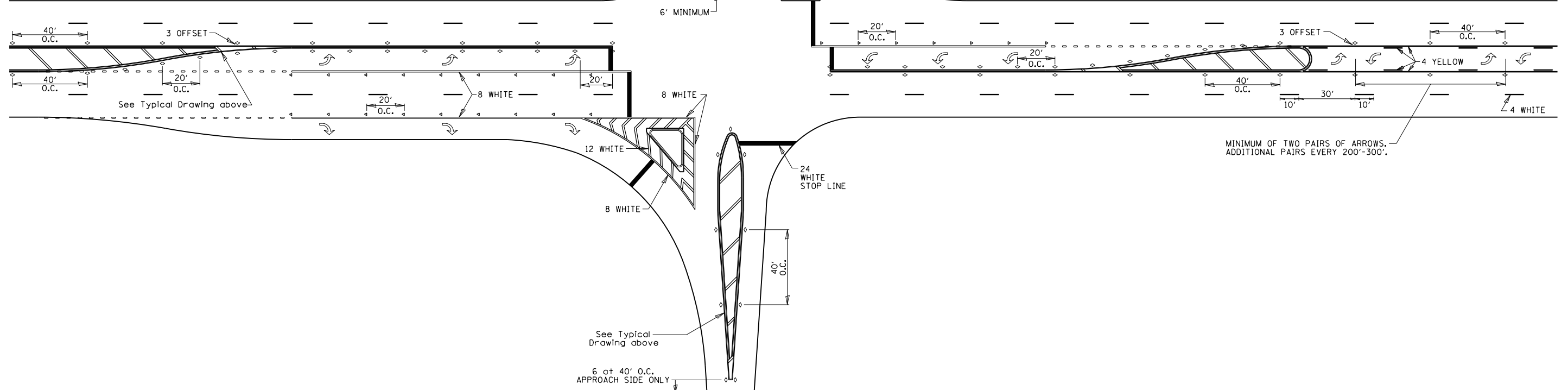
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

| Speed Limit Range | Continuous Median Area | Intersection Channelization | Objects (Islands) |
|-------------------|------------------------|-----------------------------|-------------------|
| less than 30MPH | 50' | 15' | 10' |
| 30-40MPH | 75' | 20' | 15' |
| 45MPH & over | 75' | 30' | 20' |

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



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| | | |
|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 6-27-14 |
| | DRAWN - | REVISED - 3-05-12 |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

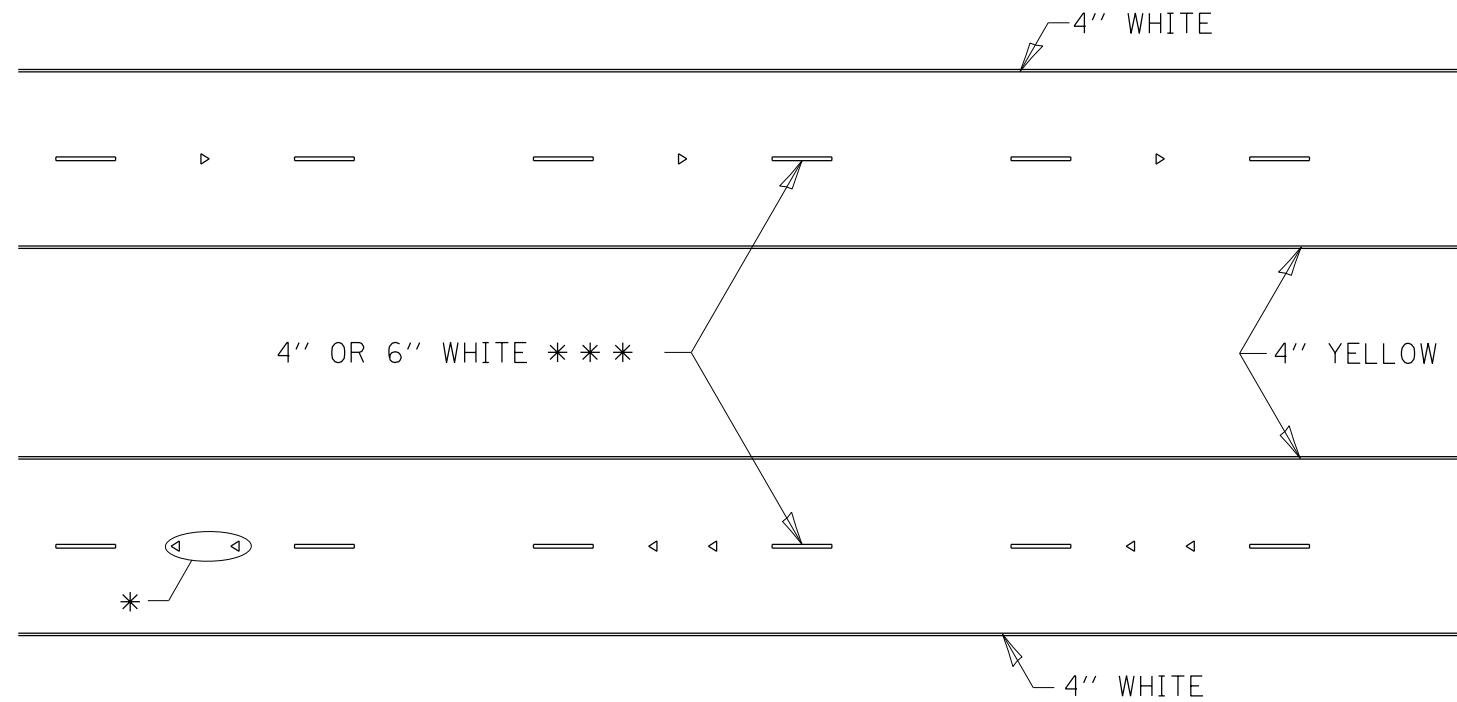
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 9 OF 13 SHEETS STA. TO STA.

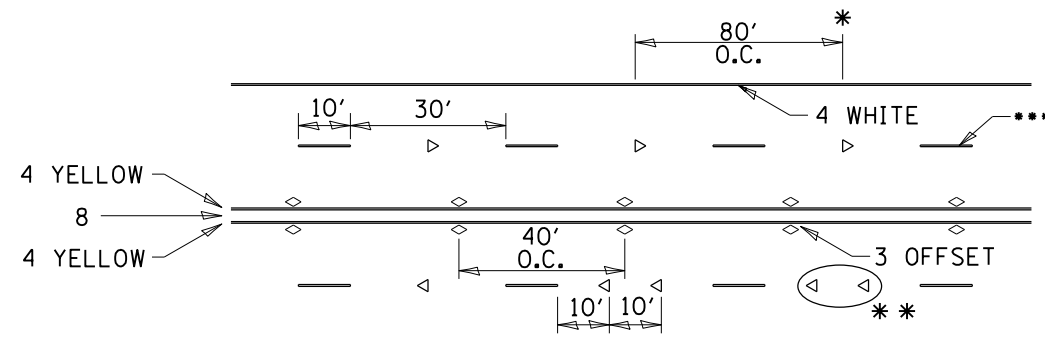
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 51 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

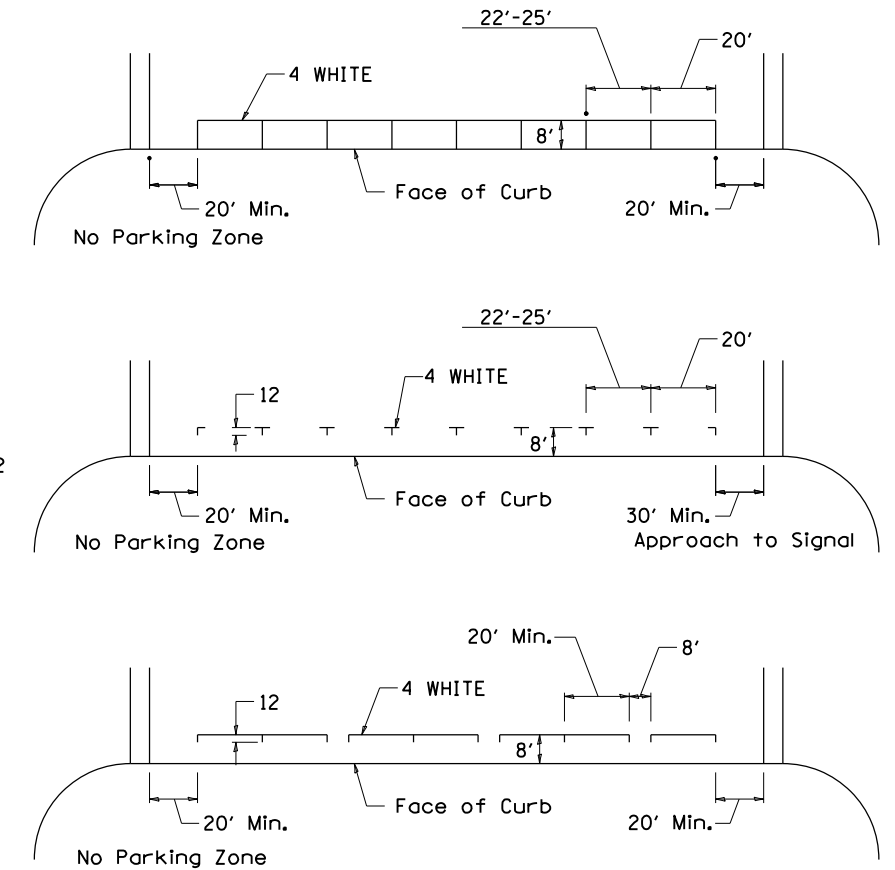
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

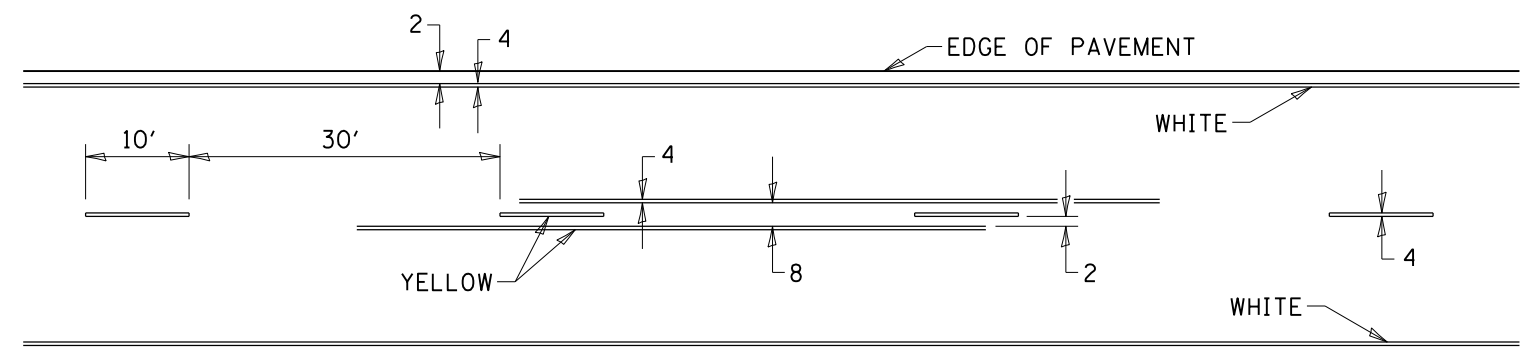
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

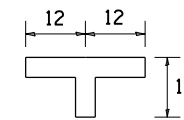
TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS



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| | | |
|-----------------------------|------------|--------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 6-27-14 |
| | DRAWN - | REVISED - 8-27-13 |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - 11-28-12 |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

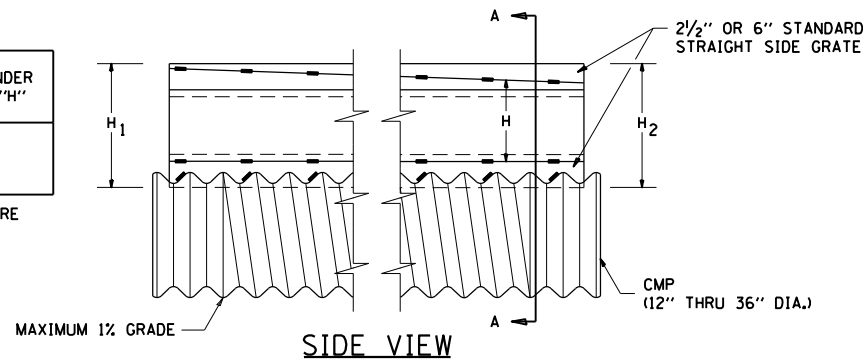
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 10 OF 13 SHEETS STA. TO STA.

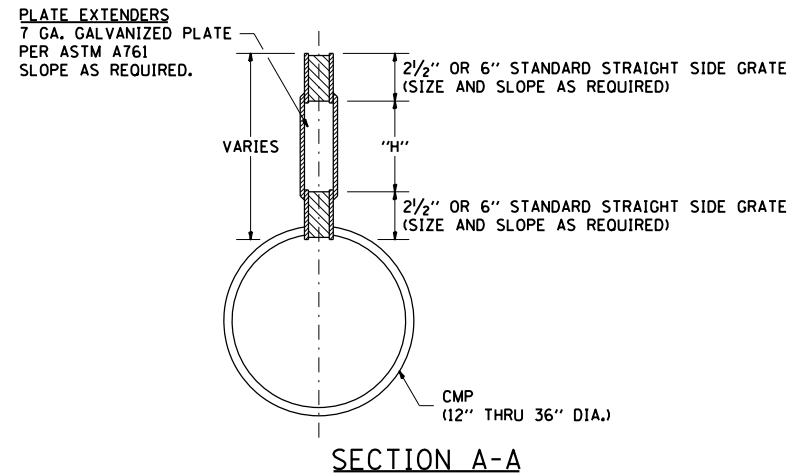
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|---------------------------|----------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 39 | (141-1HB-2)BRR | OGLE | 70 | 52 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SLOTTED DRAIN PIPE

| LOADING CONDITION | MAX. EXTENDER HEIGHT - "H" |
|--|----------------------------|
| H20/H25 • 750 PSI CONCRETE • 125 PSI TIRE PRESSURE | 19" |



DETAIL WITH VARIABLE HEIGHT GRATE



SECTION A-A

GENERAL

Class SI Concrete shall be used throughout. This specification covers Slotted Drain used for the removal of water as shown on the plans. The Slotted Drain shall be Corrugated Pipe Culvert with Integral Slotted Drains. Before placing the concrete adjacent to the pipe, the slot shall be covered by either thin, flat metal sheeting or by a board notched to fit over the grate bars. This covering must fit closely in the slot to prevent entry of concrete into the pipe. Paving over the slotted drain will then be one continuous operation over the protected drain. The protection for the drain slot shall then be removed. The pipe shall drain into the side of the inlet. The opening where the slot is removed shall be covered to prevent concrete from entering the pipe. The Corrugated Steel Pipe used in the Slotted Drain shall meet the requirements of AASHTO M36/ASTM A760. The CMP shall be ALUMINIZED STEEL Type 2. The diameter shall be as shown on the plans. Steel grating shall meet the galvanizing requirements of AASHTO M111. This work will be paid for at the contract unit price per foot for SLOTTED DRAIN of the pipe diameter specified WITH VARIABLE SLOT, or SLOTTED DRAIN, of the pipe diameter specified, WITH 6" SLOT, and shall include concrete and grating for depth specified on plans. Use approved end cap to prevent concrete entry into the pipe during gutter construction on the upstream end of the pipe.

CONNECTIONS

The Corrugated Steel Pipe shall have a minimum of two rerolled annular ends. The Slotted Drain bands shall be modified HUGGER Bands to secure the pipe and prevent infiltration of the backfill. When the Slotted Drain is banded together, the adjacent grates shall have a maximum 3" gap.

GRATES

The grates shall be manufactured from ASTM A670, Grade 36 steel. The spacers and bearing bars (sides) shall be 3/16" material ±0.008". The spacers shall be on 6" centers and welded on both sides to each bearing bar (sides) with four (4) 1-1/4" long 3/16" fillet welds on each side of the bearing bar. The plate extender shall be 7 gage steel meeting ASTM A761. The engineer may call for tensile strength tests on the grate if the grate is not in compliance with the above spacer specifications. If tensile strength tests are called for, minimum results for an in-place spacer pulled perpendicular to the bearing bar shall be:
T = 12,000 pounds for 2-1/2" grate
T = 15,000 pounds for 6" grate

GALVANIZING

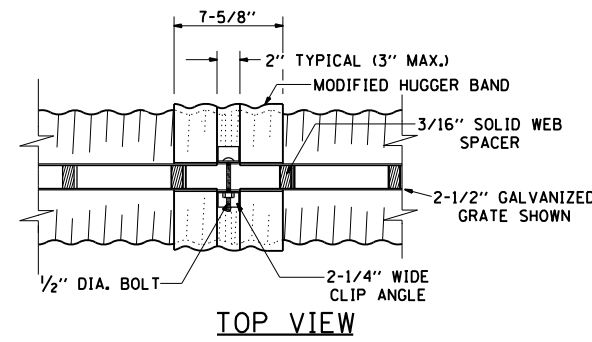
The grate and plate extenders shall be galvanized in accordance with ASTM A123 except with a 2 oz. galvanized coating.

GRATE ATTACHED TO CSP

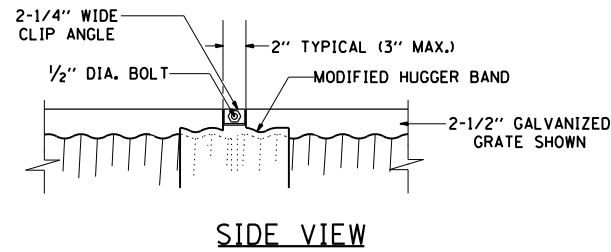
The grate shall be fillet welded with a minimum weld 1" long to the CSP on each side of the grate at every other corrugation.

TOLERANCES - FINISHED SLOTTED DRAIN - 20' LENGTHS

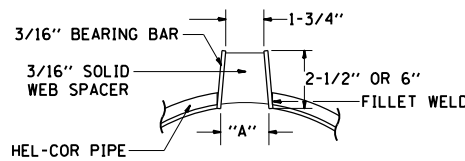
Vertical Bow = ± 3/8"
Horizontal Bow = ± 5/8"
Twist = ± 1/2"



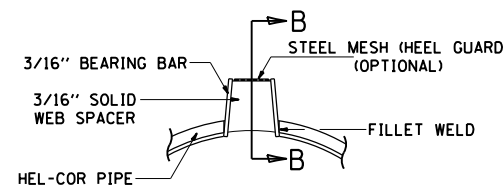
TOP VIEW



SIDE VIEW



SECTION A-A
STANDARD DETAIL



SECTION A-A
DETAIL WITH MESH
(TRAPEZOIDAL GALVANIZED GRATE SHOWN)

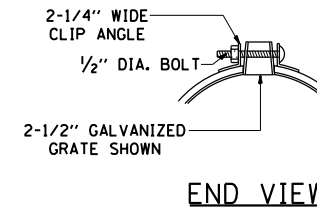
| GAGE OF PIPE | DIAMETER OF PIPE | | | | | |
|--------------|------------------|------|------|------|-----|-----|
| | 12" | 15" | 18" | 24" | 30" | 36" |
| 16 | X | X | X | X | X | X |
| 14 | X | X | X | X | X | X |
| 12 | N.A. | N.A. | N.A. | N.A. | X | X |

| GRATE TYPE | "A" |
|------------|--------|
| VERT | 2-1/2" |
| TRAP | 2-1/2" |
| TRAP | 6" |

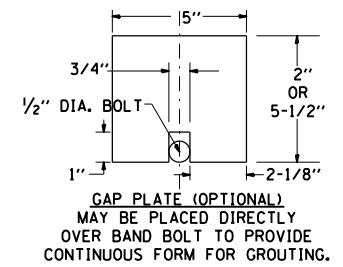
VERT = VERTICAL
TRAP = TRAPEZOIDAL

SLOTTED DRAIN NOTES

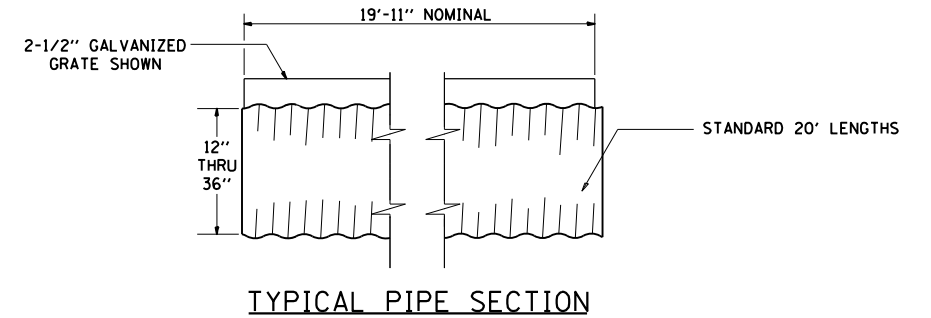
- GRATING IS AVAILABLE IN DEPTHS OF 2-1/2" AND 6".
- VERTICAL GRATING (STRAIGHT SIDES) WITH VERTICAL SPACERS IS ALSO AVAILABLE.
- FOR 6" VERTICAL & TRAPEZOIDAL REQUIREMENTS, THE SLOTTED DRAIN BAND MAY BE FURNISHED WITH THE 4" TECHCO BAND ANGLE.
- DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- DIMENSIONS FOR H₁ AND H₂ AS REQUIRED.
- H₁ AND H₂ MEASURED FROM TOP OF GRATE TO BOTTOM OF GRATE.



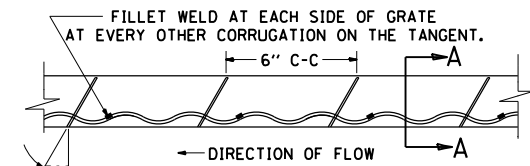
END VIEW



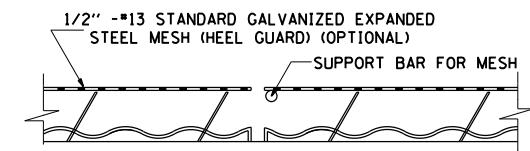
GAP PLATE (OPTIONAL) MAY BE PLACED DIRECTLY OVER BAND BOLT TO PROVIDE CONTINUOUS FORM FOR GROUTING.



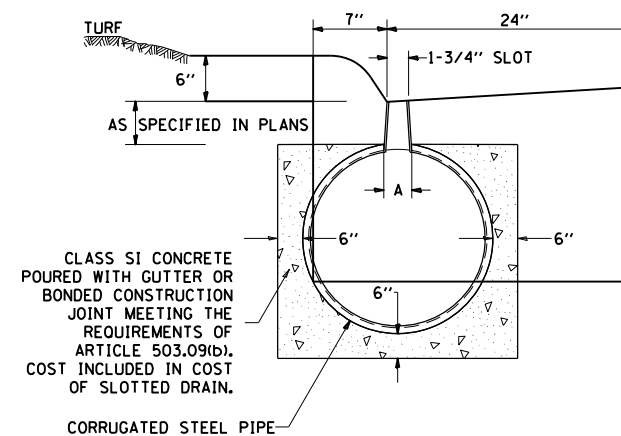
TYPICAL PIPE SECTION



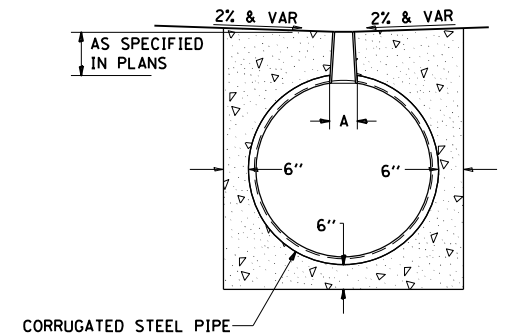
GRATE WELDING DETAIL



SECTION B-B



DETAIL FOR CURB & GUTTER



DETAIL FOR CROSSOVERS, DRIVEWAYS, OR PARKING LOTS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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| | | |
|-----------------------------|------------|--------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 1-05-16 |
| | DRAWN - | REVISED - 6-27-14 |
| PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - 10-18-11 |
| PLOT DATE = 6/20/2018 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

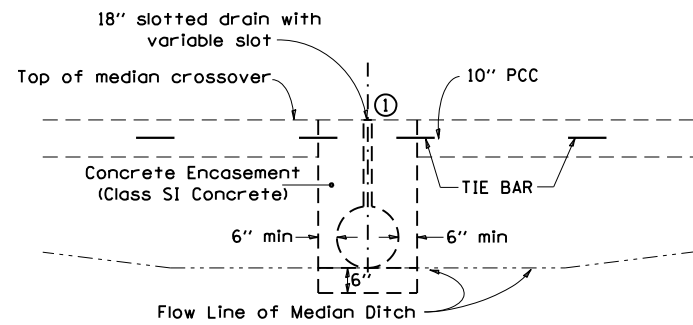
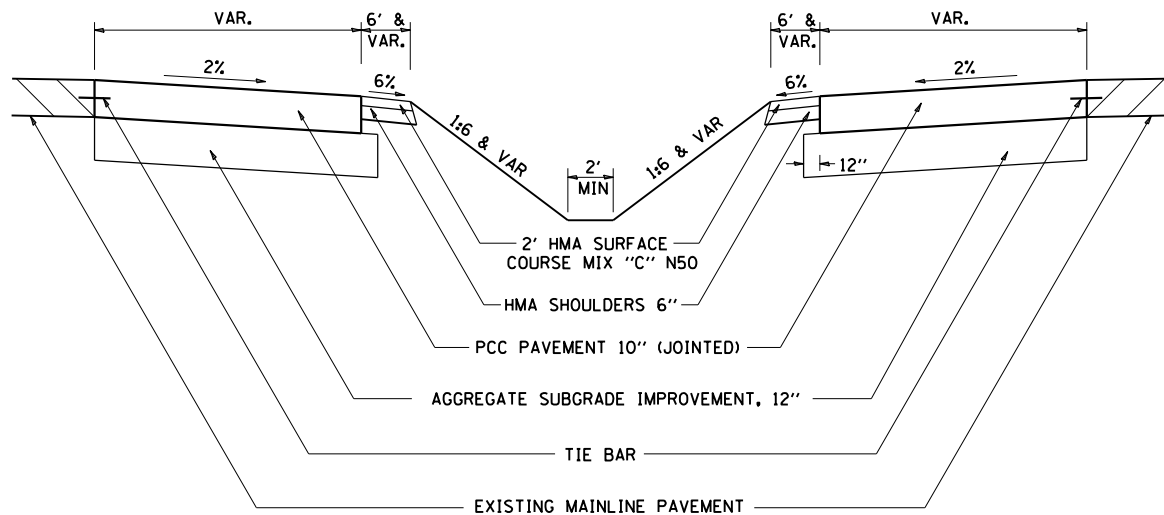
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 11 OF 13 SHEETS STA. TO STA.

| F.A.I. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 53 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

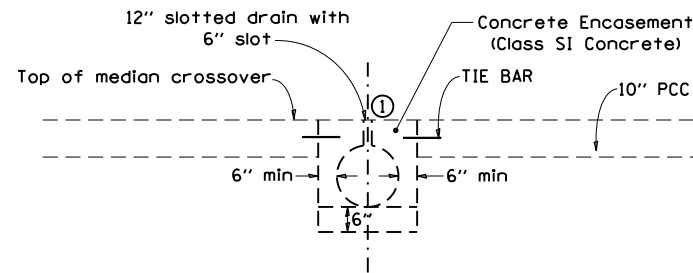
88' TWO LANE MEDIAN CROSSOVER

TYPICAL SECTION (POSTED SPEED LIMIT 65 MPH OR HIGHER, WORK ZONE SPEED LIMIT 55 MPH)



SECTION A-A

(USE TO MAINTAIN MEDIAN DRAINAGE THROUGH THE CROSSOVER)



SECTION A-A

(WHEN CROSSOVER IS AT MEDIAN HIGH POINT)

GENERAL NOTES

Construction of median crossover shall conform to the requirement of current Standard Specifications.

Slotted drain shall be constructed of 14 or 16 gauge corrugated metal roadway pipe modified to accommodate slotted drain as shown.

Pavement, subbase, & shoulder quantities are:

| | |
|--------------------|-------------------------------------|
| (4481.22 Sq. Yds.) | AGGREGATE SUBGRADE IMPROVEMENT, 12" |
| (4279.37 Sq. Yds.) | P.C.C. PAVEMENT 10" (JOINTED) |
| (114.14 Tons) | 2" HMA SURFACE COURSE, MIX "C", N50 |
| (1019.14 Sq. Yds.) | HMA SHOULDERS 6" |

Elbows and Caps shall be considered included to the SLOTTED DRAIN 12" WITH 6" SLOT.

See District Standard 61.2 or 68.1 for details for the slotted drain.

See District Standard 86.1 for details for the beveled pipe & guard.

The crossover is designed using a 55mph design speed.

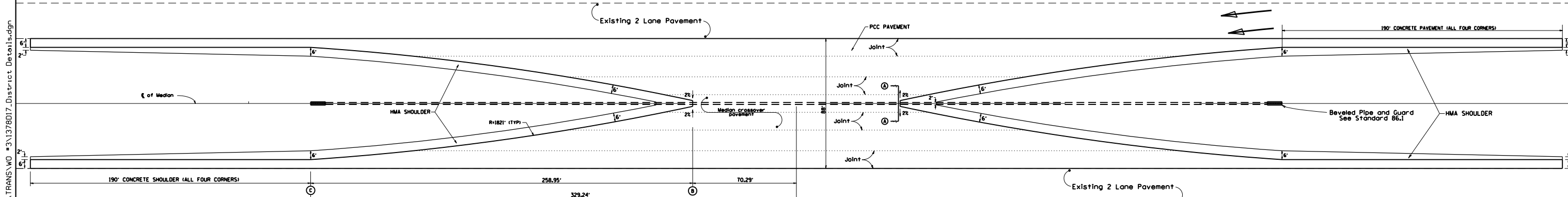
The end of the pipe guard shall be set where a minimum 1:4 front slope can be constructed from each side of pipe guard to the HMA shoulder.

The PCC Pavement 10" (Jointed) shall be constructed according to Section 420 of the Standard Specifications and Highway Standards 420001, 420101, & 420106

The PCC Pavement 10" (Jointed) shall be tied to adjacent existing concrete pavement and the concrete encasement for the slotted drain. The tie bars shall be No. 6 bars 24" long @ 30" cts, and installed according to the applicable portions of Article 420.05(b) of the Standard Specifications. The cost of the bars to be included in the cost of the PCC Pavement 10" (Jointed).

| Distance feet from location station | 0 | 70.29' | 75' | 100' | 125' | 150' | 175' | 200' | 225' | 250' | 275' | 300' | 325' | 329.24' |
|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|---------|
| Offsets feet from inside edge of pavement | 44' | 42' | 41.00' | 35.93' | 31.23' | 26.86' | 22.86' | 19.22' | 15.94' | 13.00' | 10.42' | 8.18' | 6.29' | 6.00' |
| Drop feet from inside edge of pavement | 0.88' | 0.84' | 0.82' | 0.72' | 0.62' | 0.54' | 0.46' | 0.38' | 0.32' | 0.26' | 0.21' | 0.16' | 0.13' | 0.12' |

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TYPICAL PLAN

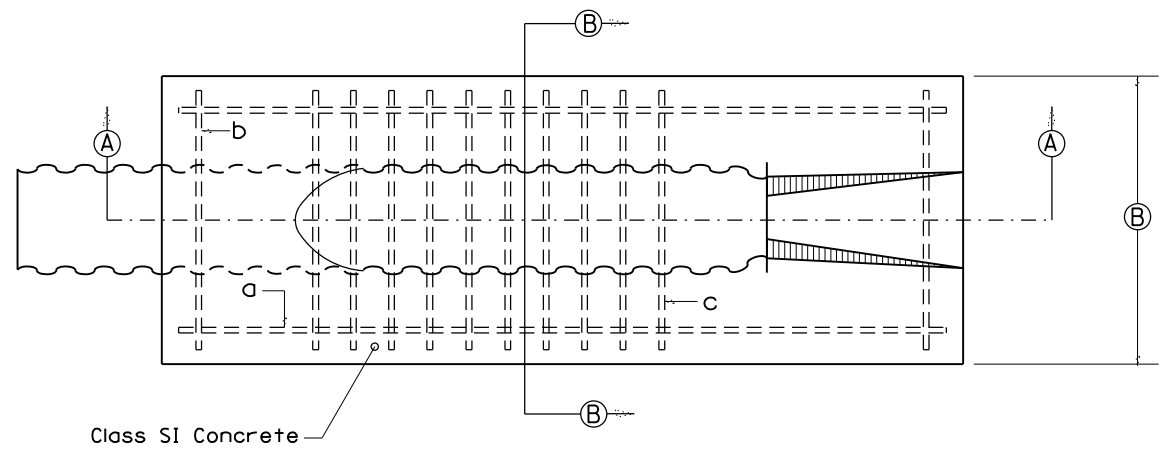
Unless otherwise specified, when the median crossover is to be removed, the Contractor shall be required to saw full-depth along the shoulder line 6' from edge of pavement). The 6' adjacent to the edge of pavement shall remain in place and be used as shoulders. The cost of Sawing shall be included in the Pavement Removal.

Longitudinal joints shall be sawed at a max 12' width. All joints shall be sealed.

TRAFFIC CONTROL STANDARD 701416 IS TO BE USED WITH THIS DETAIL

| | | | | | | | | | | | |
|--|-----------------------------|------------|-------------------|---|---------------------------------------|-----------------------|-------------------|---------------------------|-------------|-----------------|--------------|
| | USER NAME = TYLER | DESIGNED - | REVISED - 1-05-16 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | | F.A.I. RTE. = 39 | SECTION (141-1HB-2)BRR | COUNTY OGLE | TOTAL SHEETS 70 | SHEET NO. 54 |
| | PLOT SCALE = 24.0000' / ft. | CHECKED - | REVISED - 6-27-14 | | | | REVISED - 8-27-13 | CONTRACT NO. 64M77 | | | |
| | PLOT DATE = 6/20/2018 | DATE - | REVISED - 4-04-11 | | SCALE | SHEET 12 OF 13 SHEETS | STA. TO STA. | ILLINOIS FED. AID PROJECT | | | |

BEVELED PIPE & GUARD DETAIL FOR MEDIAN CROSSOVER



PLAN VIEW

| 12 PIPE REINFORCING SCHEDULE | | | |
|------------------------------|----------|--------|-----|
| Mark Req'd | Bar Size | Length | No. |
| a | 5 | 110 | 2 |
| b | 5 | 32 | 2 |
| c | 8 | 34 | 10 |

| 18 PIPE REINFORCING SCHEDULE | | | |
|------------------------------|----------|--------|-----|
| Mark Req'd | Bar Size | Length | No. |
| a | 5 | 162 | 2 |
| b | 5 | 38 | 2 |
| c | 8 | 40 | 18 |

GENERAL NOTES:

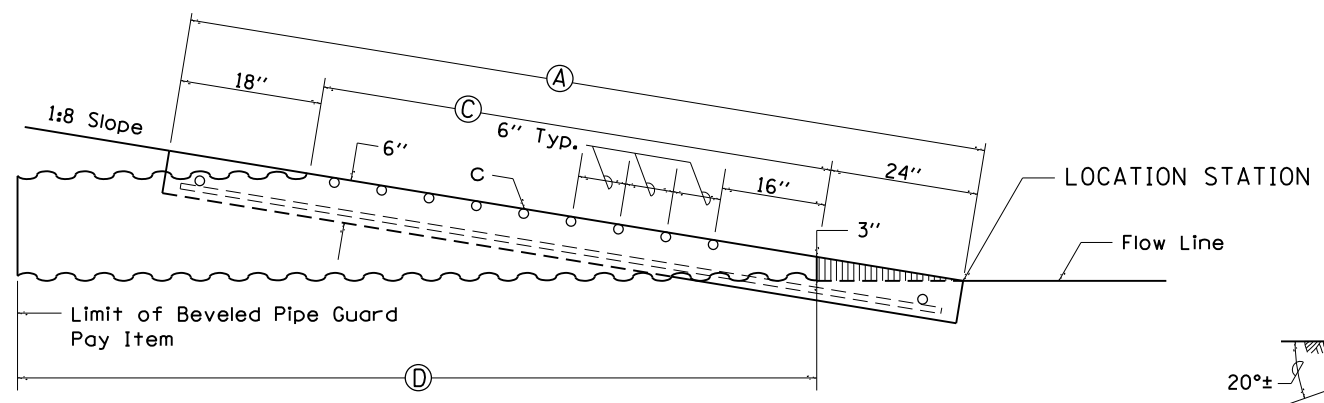
Details shown hereon are for the construction of beveled pipe and guard. Alternate designs, methods of construction or materials may be submitted to the Engineer for approval. All methods of construction and materials involved shall conform to current Standard Specifications.

Reinforcing steel used in construction of "Beveled Pipe and Guard" shall be deformed bars meeting the requirements of Article 1006.10 of the Standard Specifications. All steel bars shall be hot-dip galvanized in accordance with ASTM A 123 specifications.

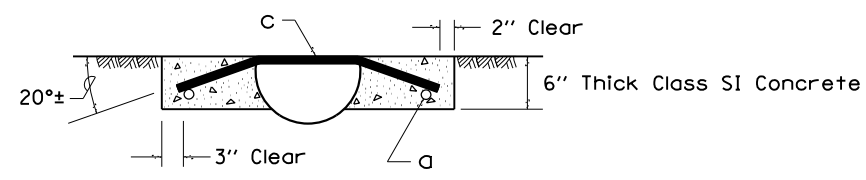
Concrete used in construction of the beveled pipe and guard shall be Class "SI" Concrete.

The corrugated metal pipe shall be cut to fit the 1:8 foreslope. Slots shall be cut into the C.M.P. for placement of the 'b' and 'c' bars. After the foreslope has been placed, the 'b' and 'c' bars shall be fitted into the slots cut in the C.M.P. so they will be in proper position when the concrete collar is poured.

This work shall be paid for at the contract unit price per Each for "Beveled Pipe and Guard", as shown hereon and as directed by the Engineer.



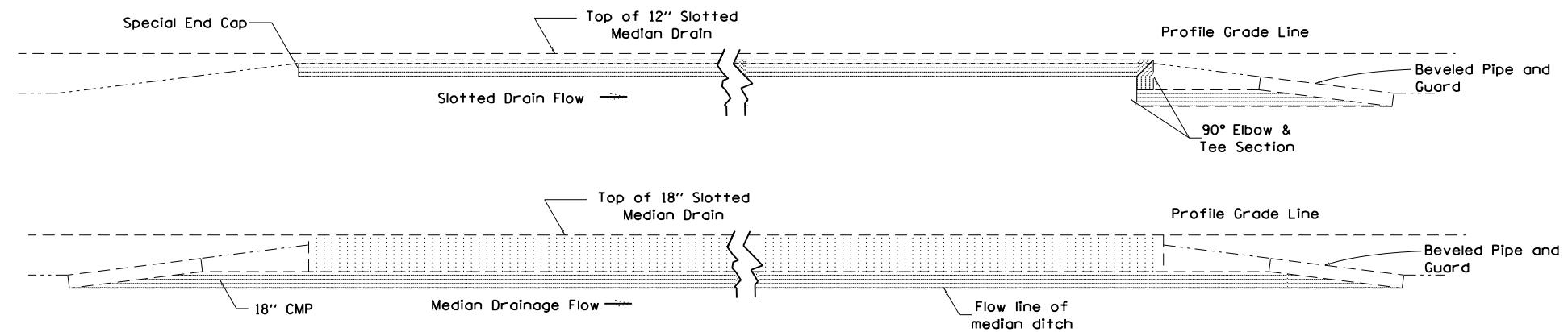
SECTION A-A



SECTION B-B

| TABLE OF DIMENSIONS | | | | |
|---------------------|-----------|----|----------|-----------|
| PIPE SIZE | A | B | C | D |
| 12 | 9' - 6' | 36 | 6' | 10' |
| 18 | 13' - 10" | 42 | 10' - 4" | 14' - 10" |

TYPICAL SECTION THRU CENTERLINE OF MEDIAN CROSSOVER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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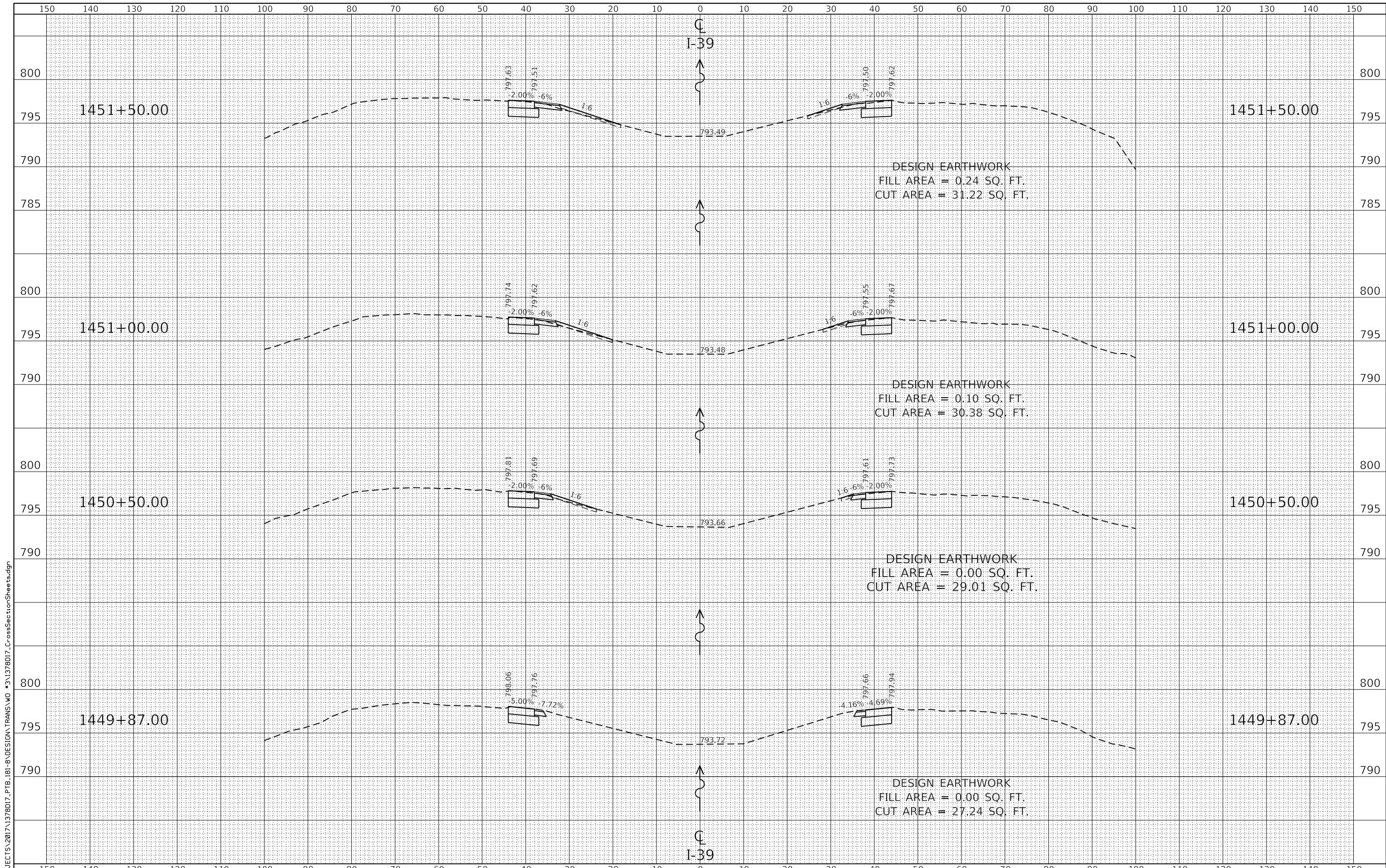
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|-----------------------------|------------|-------------------|
| USER NAME = TYLER | DESIGNED - | REVISED - 5-27-09 |
| PLOT SCALE = 24.0000' / ft. | DRAWN - | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET 13 OF 13 SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 55 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |



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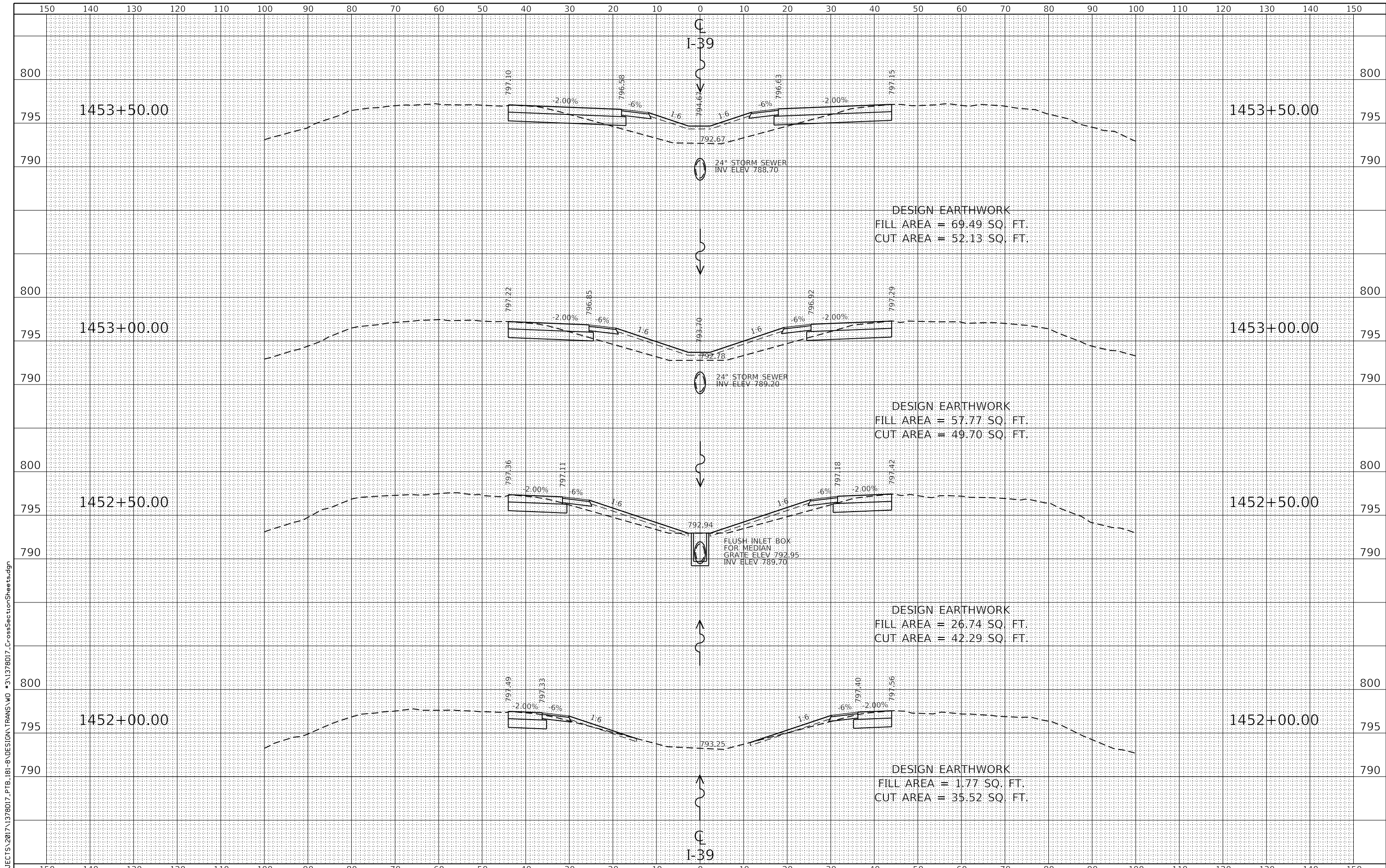


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 1 OF 15 SHEETS STA. 1449+87 TO STA. 1451+50 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 56 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



FILE = S:\PROJECTS\2017\1378017_PTB_181-8\DESIGN\TRANS\WO #3\1378017_CrossSectionSheets.dgn

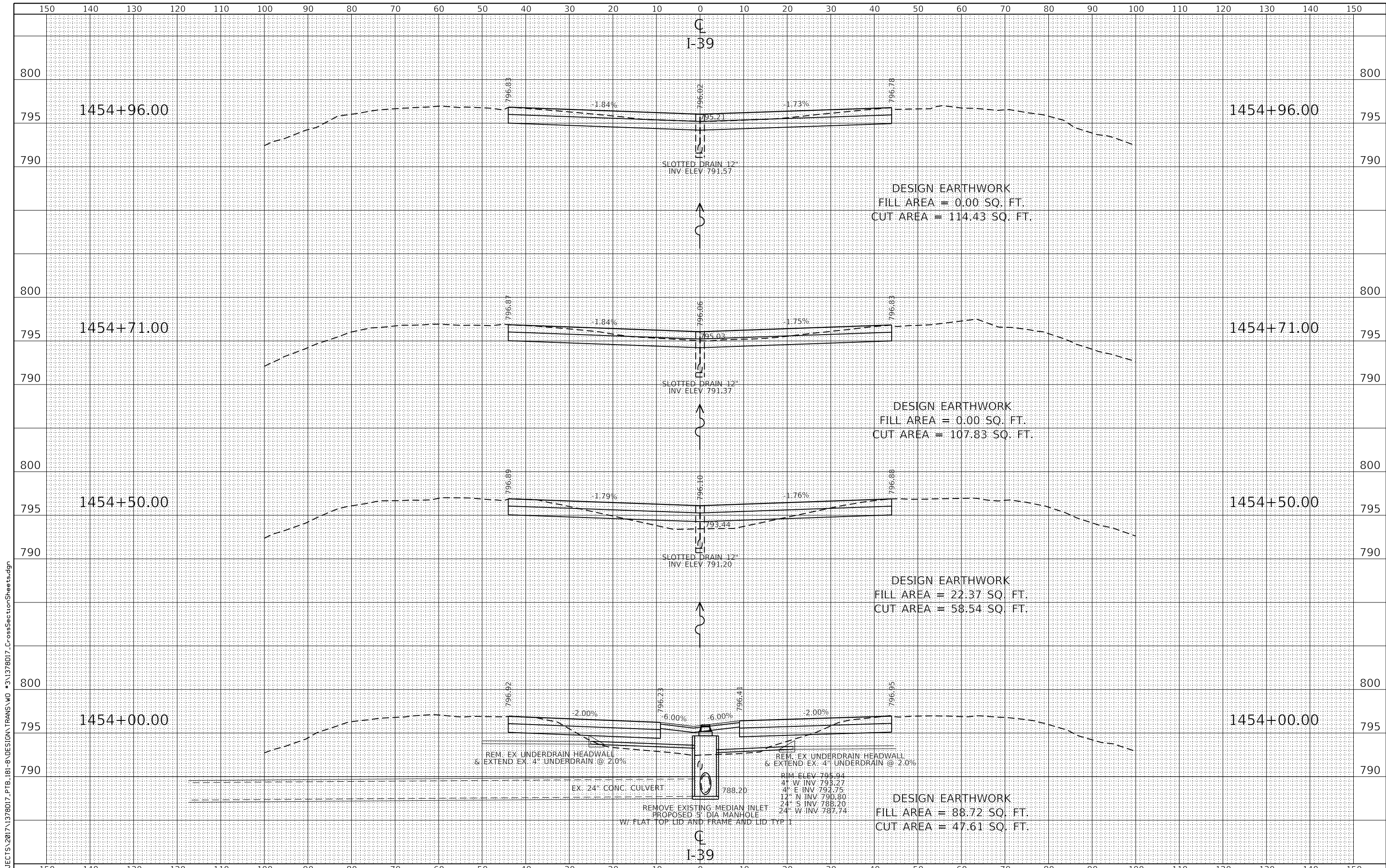


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 2 OF 15 SHEETS STA. 1452+00 TO STA. 1453+50 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 57 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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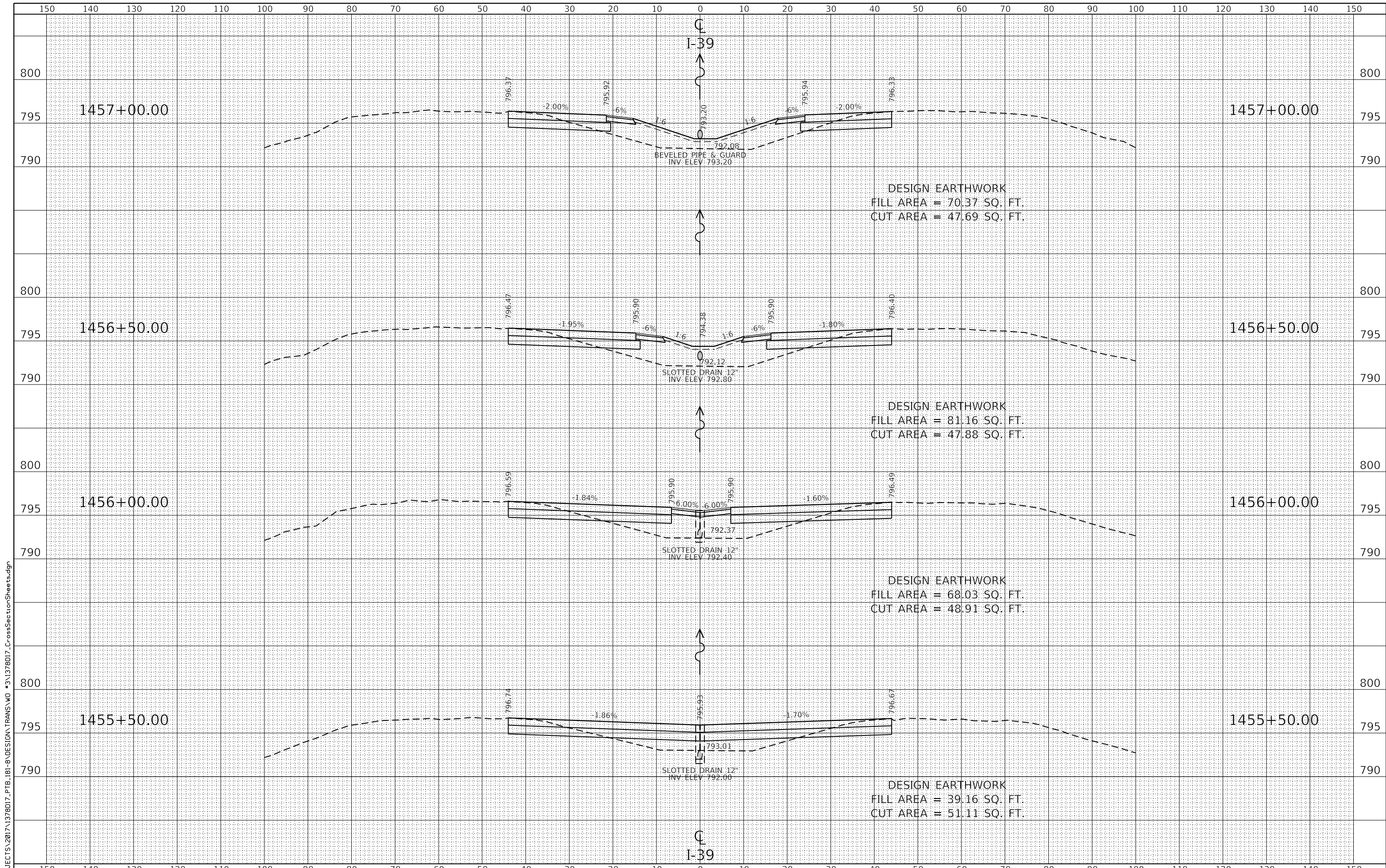
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|--|------------------------------|----------------|-----------|
| | USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | | DRAWN - TBS | REVISED - |
| | PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| | PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

| | |
|----------------|-----------|
| DESIGNED - LGN | REVISED - |
| DRAWN - TBS | REVISED - |
| CHECKED - GFS | REVISED - |
| DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 3 OF 15 SHEETS STA. 1454+00 TO STA. 1454+96 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 58 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



DESIGN EARTHWORK
 FILL AREA = 70.37 SQ. FT.
 CUT AREA = 47.69 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 81.16 SQ. FT.
 CUT AREA = 47.88 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 68.03 SQ. FT.
 CUT AREA = 48.91 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 39.16 SQ. FT.
 CUT AREA = 51.11 SQ. FT.

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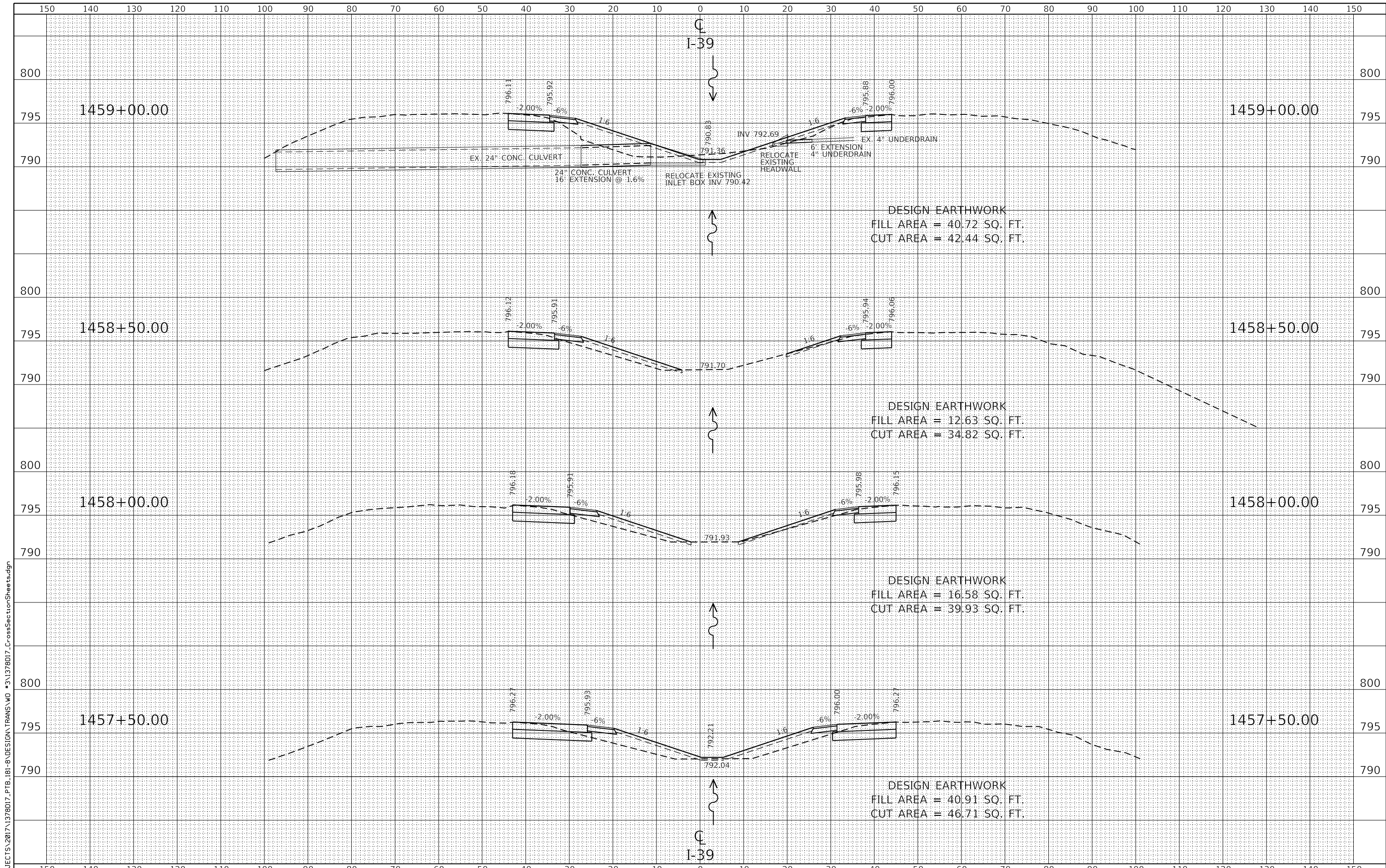
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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| PLOT SCALE = 240.0000' / ft. | DRAWN - TBS | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - GFS | REVISED - |
| | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 4 OF 15 SHEETS STA. 1455+50 TO STA. 1457+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 59 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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WILLET HOFMANN ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
 800 EAST 2ND STREET, DEKALB, IL 62521-0367
 T: 815-284-3350 DESIGN FAX: 815-284-0075

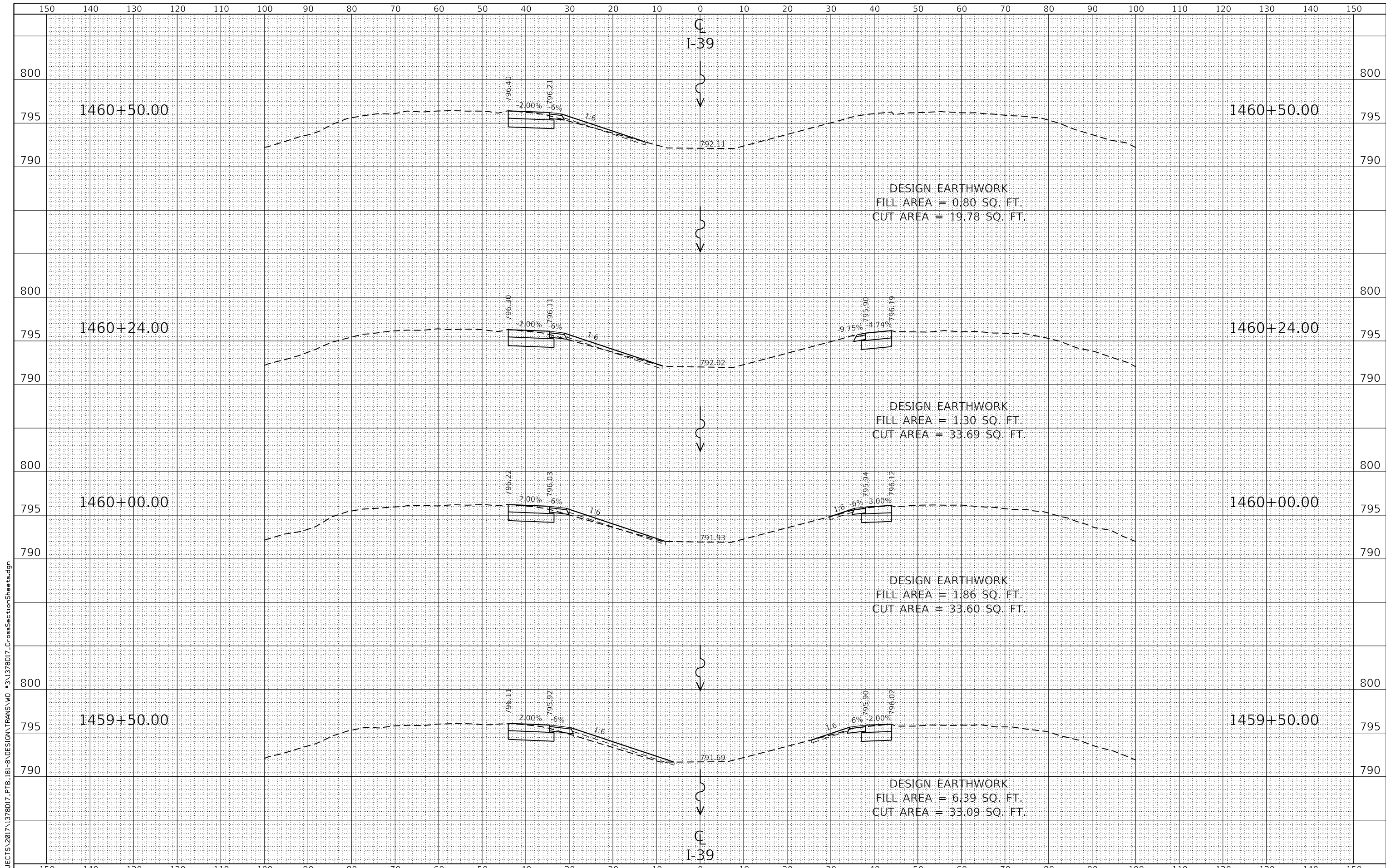
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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| PLOT SCALE = 240.0000' / ft. | DRAWN - TBS | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - GFS | REVISED - |
| | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

| | | | | |
|-------|---------|--------------|--------------|-----------------|
| SCALE | SHEET 5 | OF 15 SHEETS | STA. 1457+50 | TO STA. 1459+00 |
|-------|---------|--------------|--------------|-----------------|

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 60 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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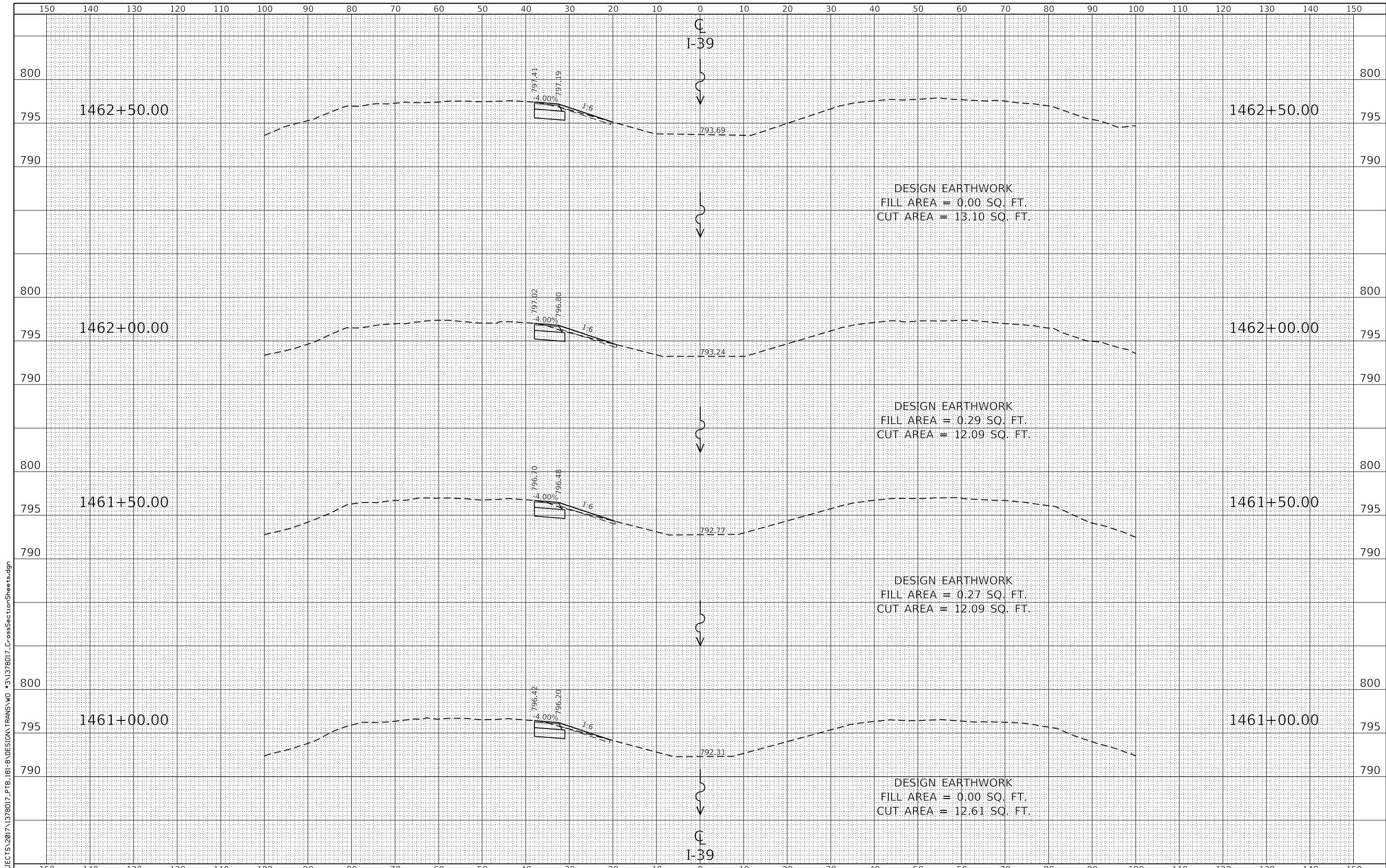
WILLETT HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 800 EAST 2ND STREET, DEXON, IL 62021-0367
 TEL: 618-234-3351 DESIGN FAX: 618-234-0075

| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| PLOT SCALE = 240.0000' / ft. | DRAWN - TBS | REVISED - |
| PLOT DATE = 6/20/2018 | CHECKED - GFS | REVISED - |
| | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 6 OF 15 SHEETS STA. 1459+50 TO STA. 1460+50 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 61 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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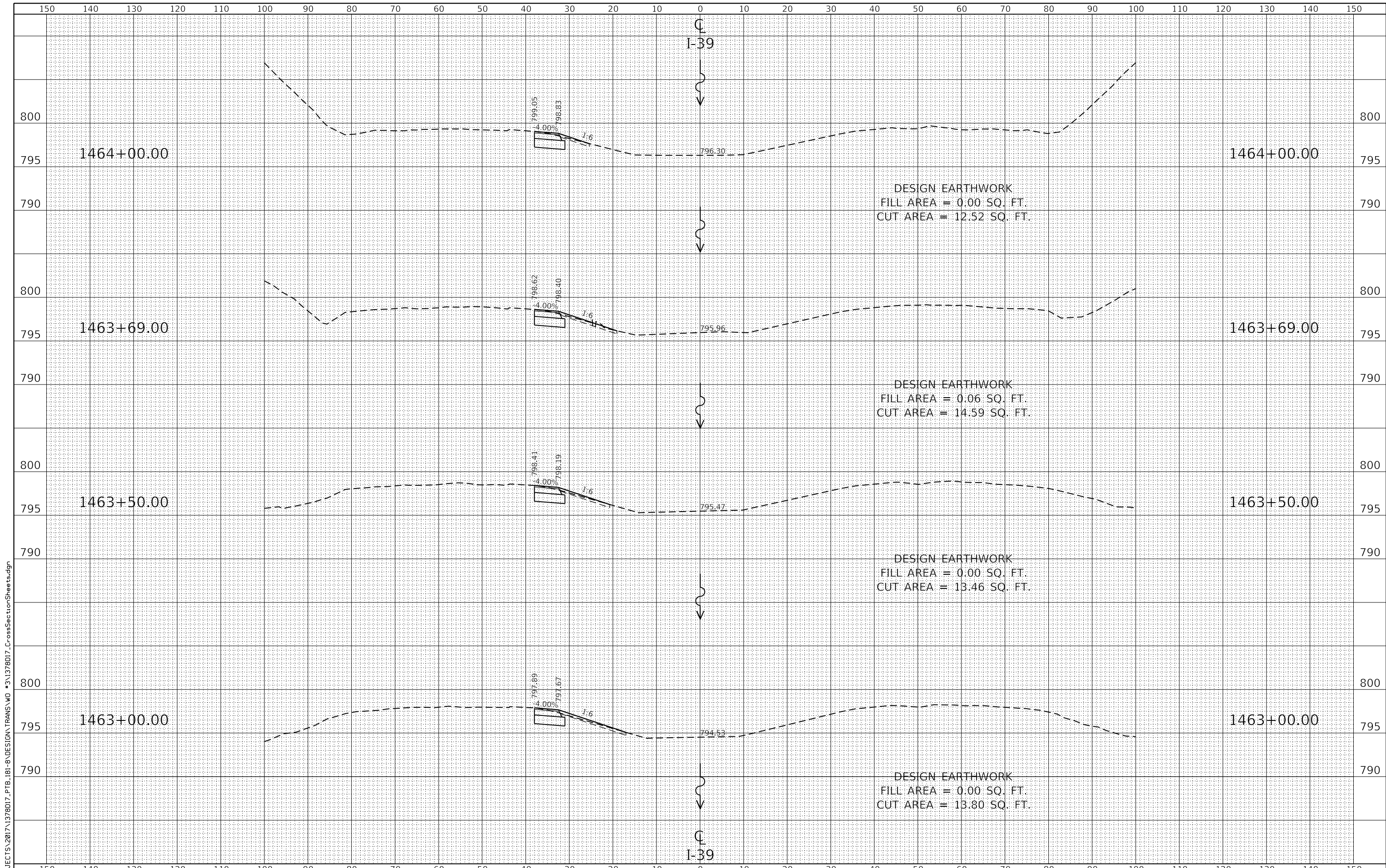


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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 7 OF 15 SHEETS STA. 1461+00 TO STA. 1462+50 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 62 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



DESIGN EARTHWORK
 FILL AREA = 0.00 SQ. FT.
 CUT AREA = 12.52 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 0.06 SQ. FT.
 CUT AREA = 14.59 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 0.00 SQ. FT.
 CUT AREA = 13.46 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 0.00 SQ. FT.
 CUT AREA = 13.80 SQ. FT.

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USER NAME = TYLER
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 DATE - 6/20/18

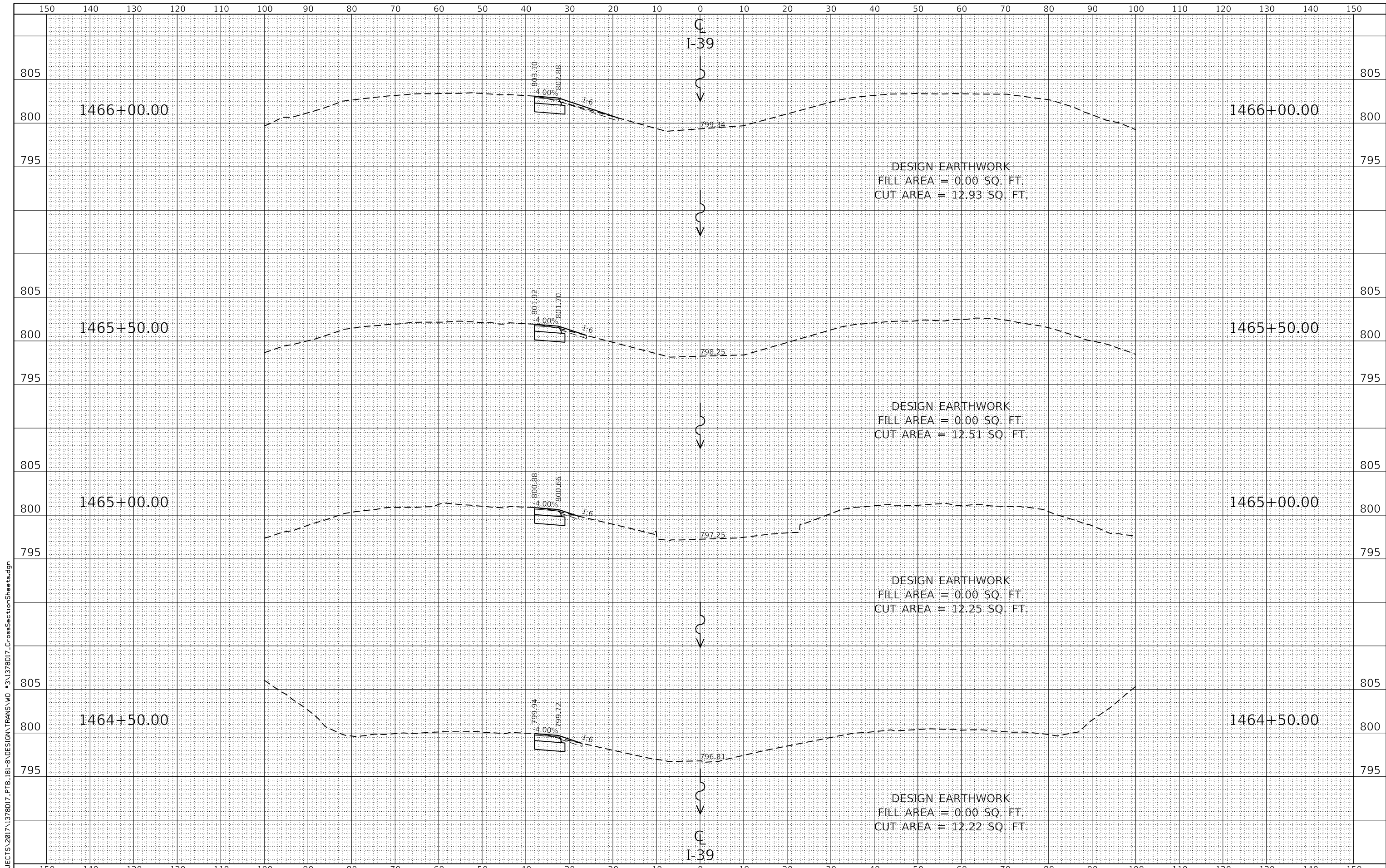
REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE SHEET 8 OF 15 SHEETS STA. 1463+00 TO STA. 1464+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 63 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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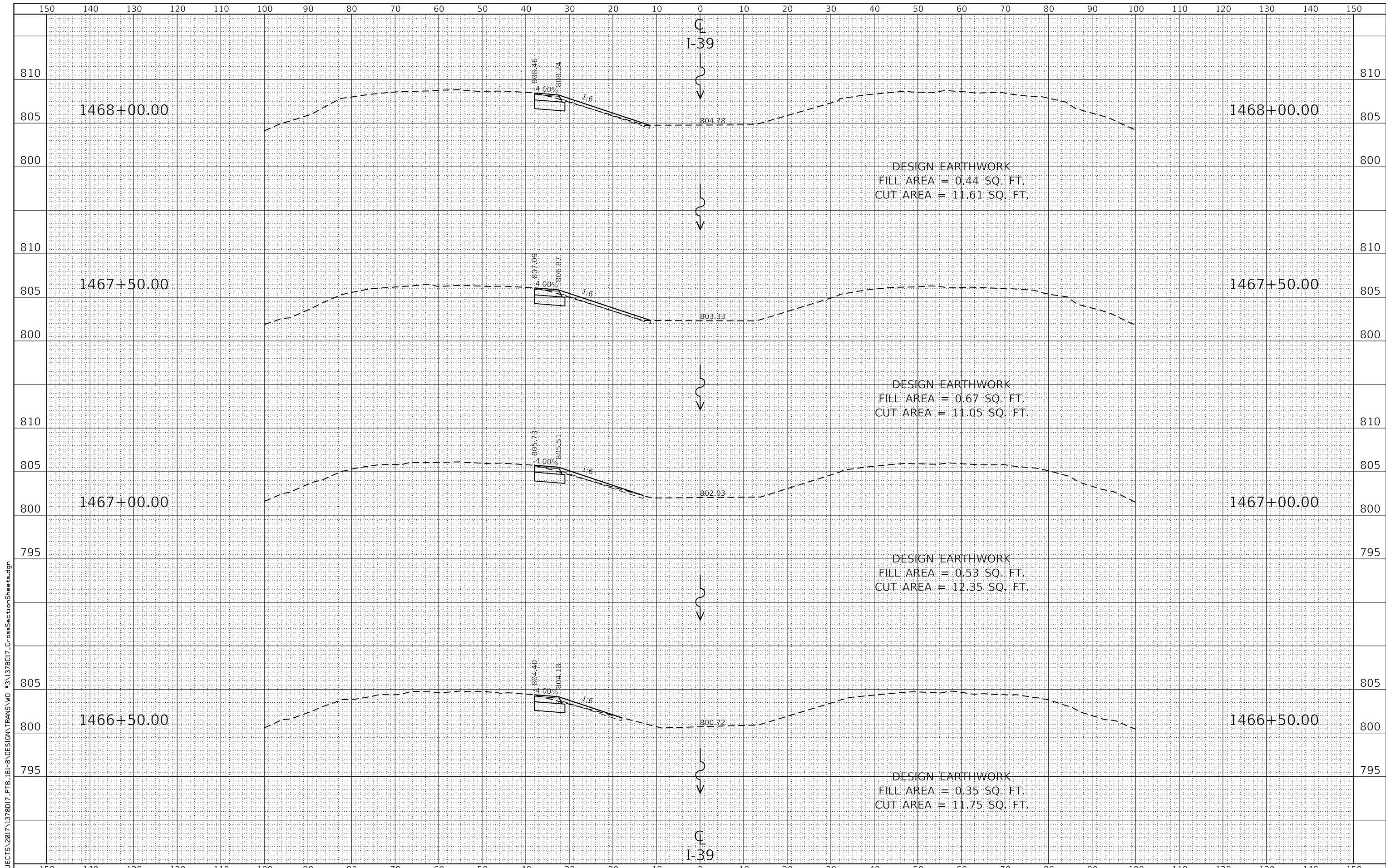


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|---|
| CROSS SECTIONS | |
| SCALE | SHEET 9 OF 15 SHEETS STA. 1464+50 TO STA. 1466+00 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 64 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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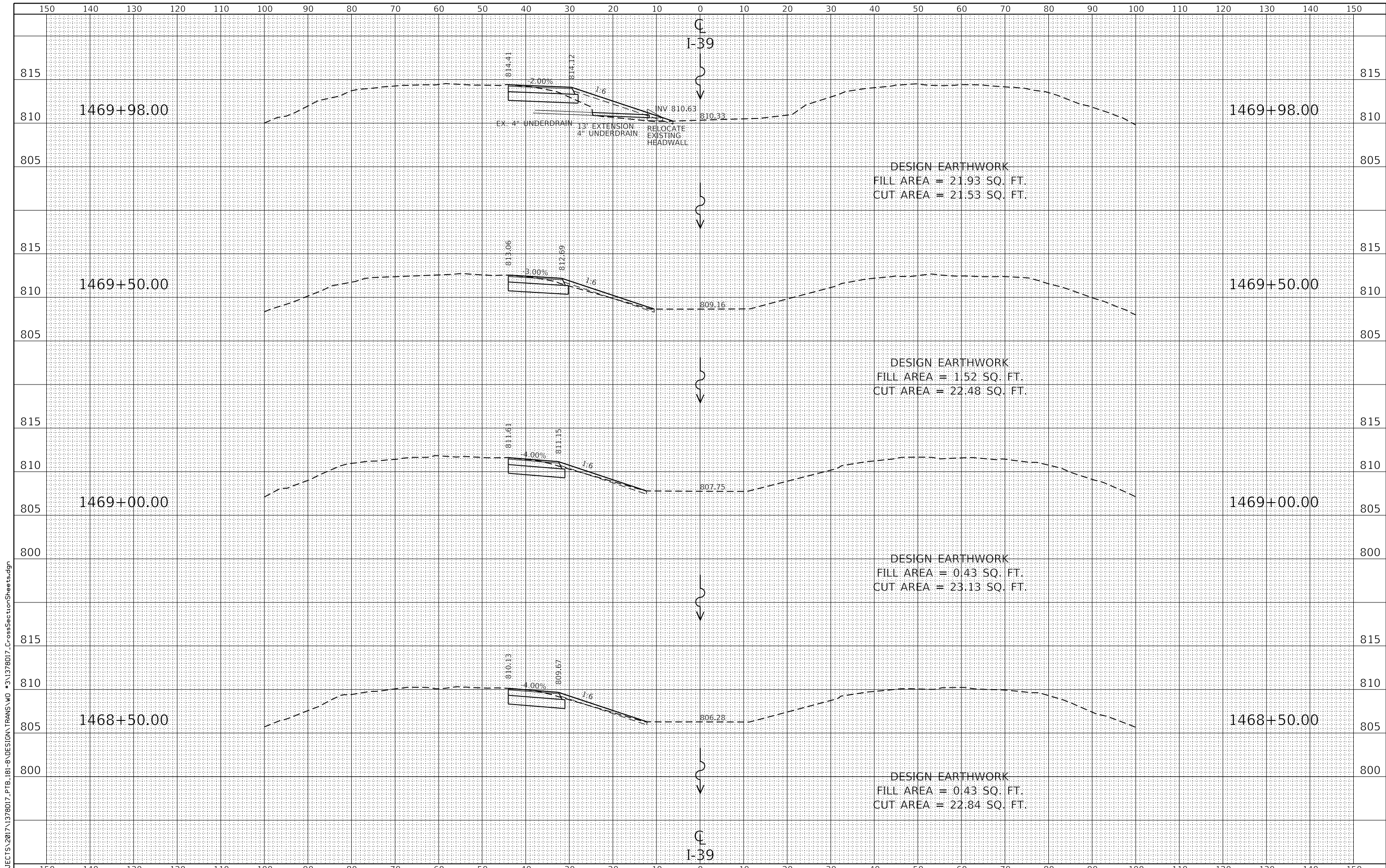


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|-----------------------|--|
| CROSS SECTIONS | |
| SCALE | SHEET 10 OF 15 SHEETS STA. 1466+50 TO STA. 1468+00 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 65 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



DESIGN EARTHWORK
 FILL AREA = 21.93 SQ. FT.
 CUT AREA = 21.53 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 1.52 SQ. FT.
 CUT AREA = 22.48 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 0.43 SQ. FT.
 CUT AREA = 23.13 SQ. FT.

DESIGN EARTHWORK
 FILL AREA = 0.43 SQ. FT.
 CUT AREA = 22.84 SQ. FT.

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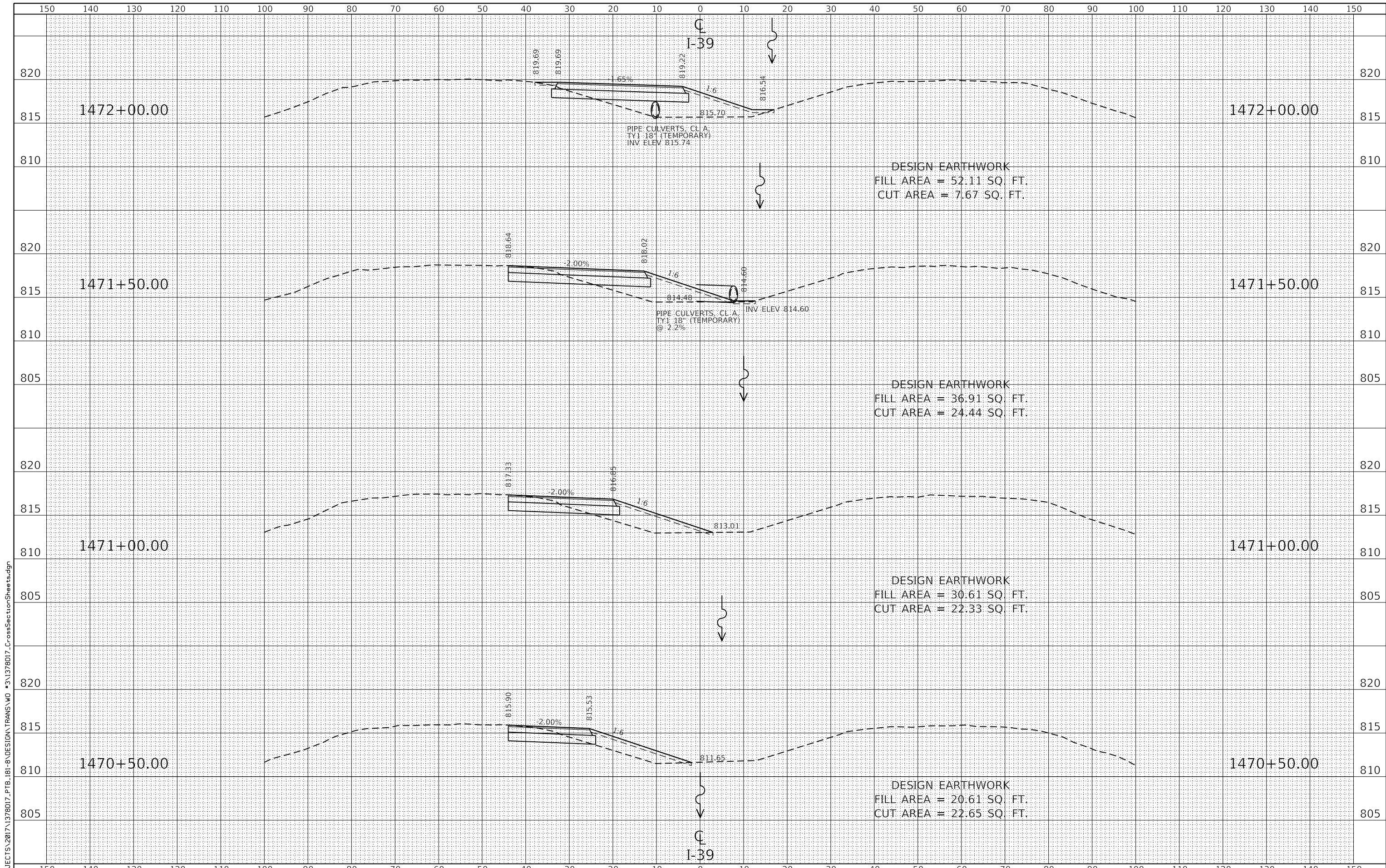


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | | | |
|-------|--|-----------------------|--|--------------|-----------------|
| SCALE | | SHEET 11 OF 15 SHEETS | | STA. 1468+50 | TO STA. 1469+98 |
| | | CROSS SECTIONS | | | |

| F.A.I. RTÉ. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 66 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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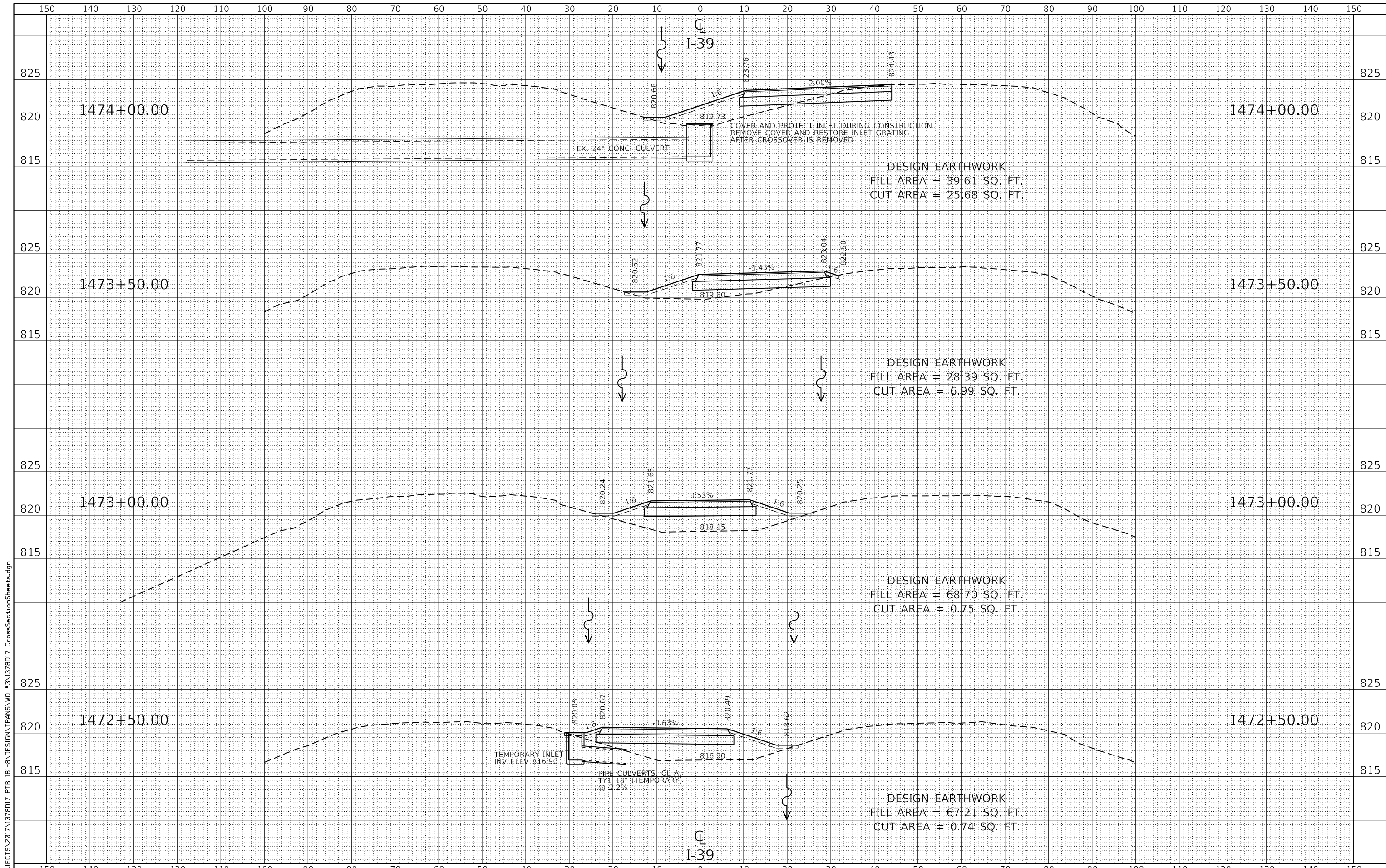


| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | | | | |
|-----------------------|--|---------------------------|----------|--------------|--------------|-----------------|
| CROSS SECTIONS | | SCALE | SHEET 12 | OF 15 SHEETS | STA. 1470+50 | TO STA. 1472+00 |
| | | ILLINOIS FED. AID PROJECT | | | | |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 67 |
| CONTRACT NO. 64M77 | | | | |



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WILLETT HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 89 BEAUMONT 2ND STREET, DIXON, IL 61011-0367
 T: 815-234-3351 DESIGN FAX: 815-234-3352

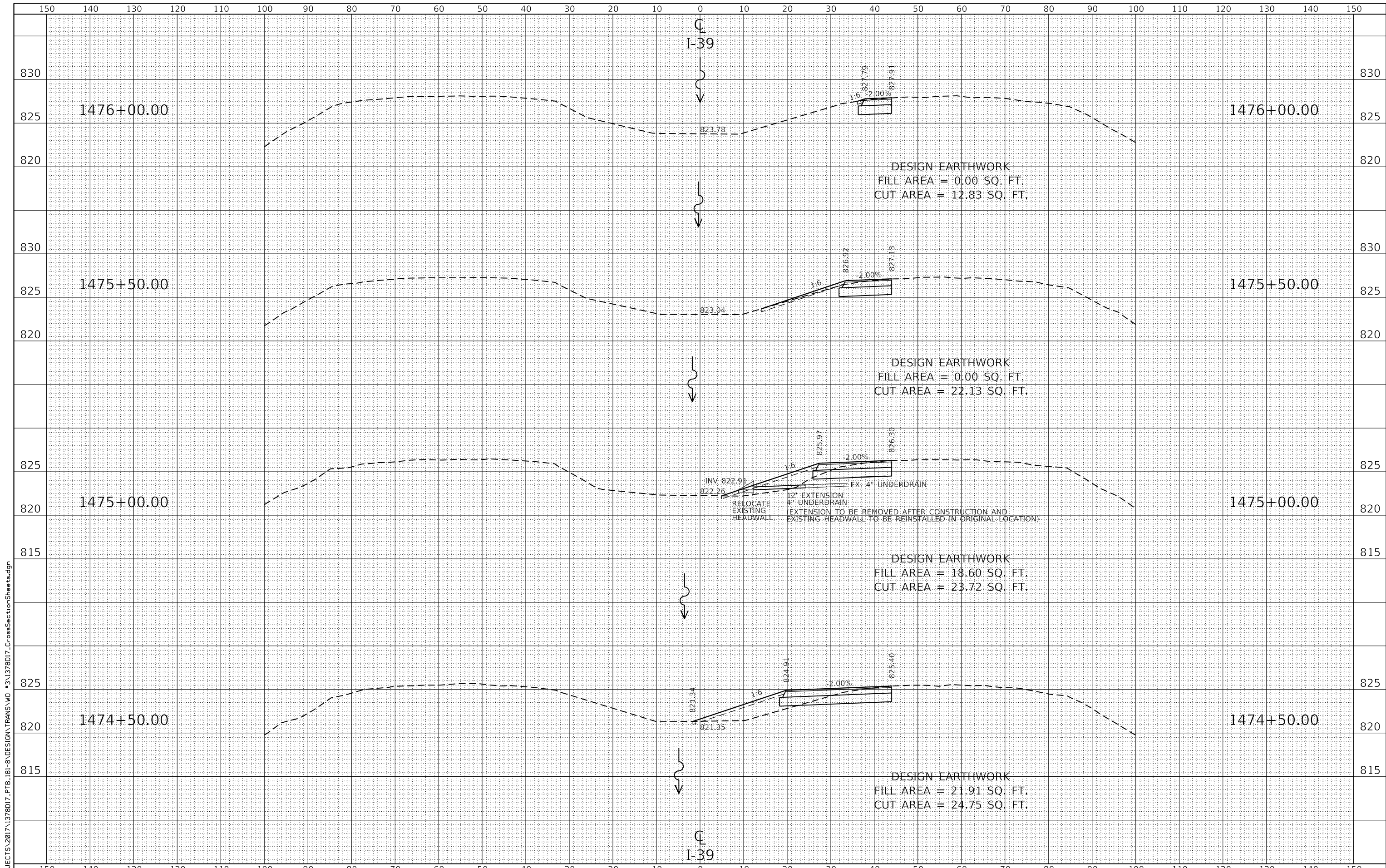
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|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 13 OF 15 SHEETS STA. 1472+50 TO STA. 1474+00

| F.A.I. RTÉ. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 68 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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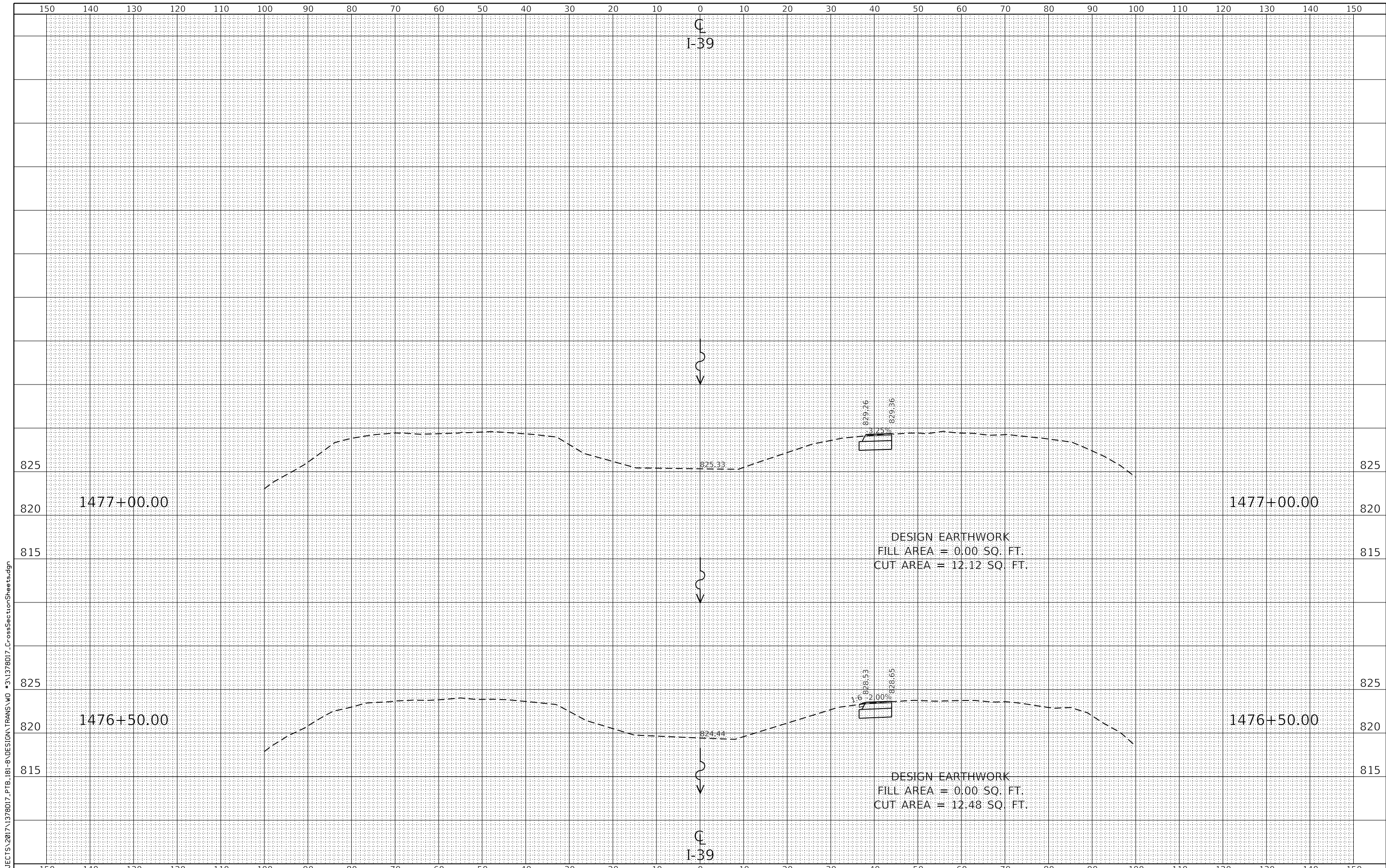
WILLET HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 808 EAST 2ND STREET, DEKALB, IL 62521-0367
 T: 815-284-3350 DESIGN PERM: F184-000018

| | | |
|------------------------------|----------------|-----------|
| USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | DRAWN - TBS | REVISED - |
| PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| CROSS SECTIONS | | | |
|----------------|----------|--------------|------------------------------|
| SCALE | SHEET 14 | OF 15 SHEETS | STA. 1474+50 TO STA. 1476+00 |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|--------|--------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 69 |
| CONTRACT NO. 64M77 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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|--|------------------------------|----------------|-----------|
| | USER NAME = TYLER | DESIGNED - LGN | REVISED - |
| | | DRAWN - TBS | REVISED - |
| | PLOT SCALE = 240.0000' / ft. | CHECKED - GFS | REVISED - |
| | PLOT DATE = 6/20/2018 | DATE - 6/20/18 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: SHEET 15 OF 15 SHEETS STA. 1476+50 TO STA. 1477+00

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|--------|---------------------------|-----------|
| 39 | (141-1HB-2)BRR | OGLE | 70 | 70 |
| CONTRACT NO. 64M77 | | | ILLINOIS FED. AID PROJECT | |