

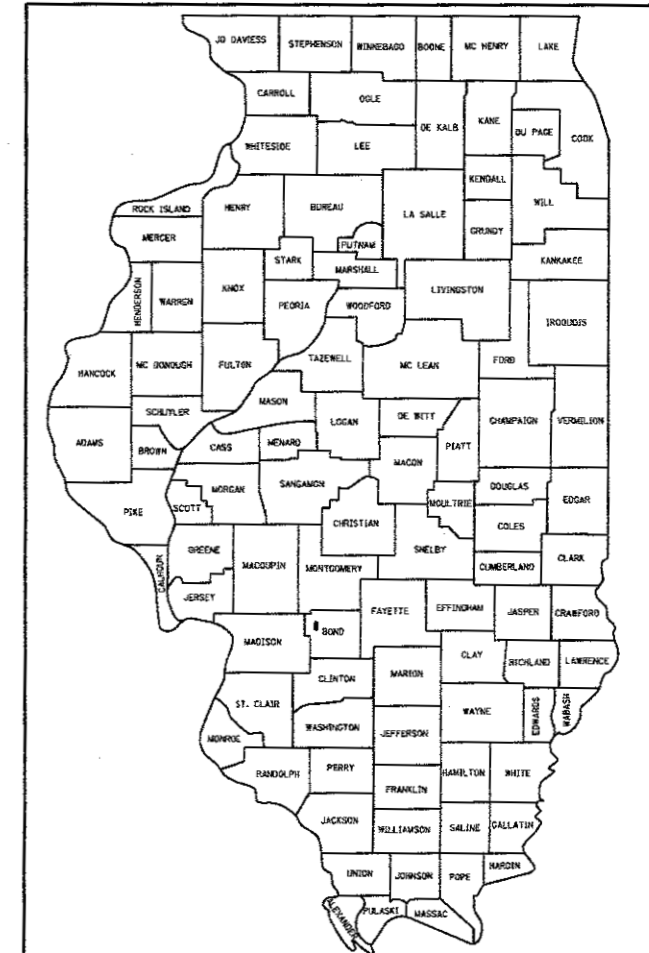
|                  |                |          |                    |           |
|------------------|----------------|----------|--------------------|-----------|
| FAS              | SECTION        | COUNTY   | TOTAL SHEETS       | SHEET NO. |
| 777              | 11-00086-00-BR | BOND     | 42                 | 1         |
| FED. AID PROJECT |                | ILLINOIS | CONTRACT NO. 97648 |           |

# MAJOR BRIDGE PROGRAM

## DETAIL PLANS FOR FAS 777 (CH 14 - NEW DOUGLAS AVENUE)

### OVER DRY FORK CREEK SECTION 11-00086-00-BR BOND COUNTY

PROJECT NO. BRS-0777(116)  
JOB NO. C-98-300-13



LOCATION OF SECTION INDICATED THUS: - [Black Box] -

#### INDEX OF SHEETS

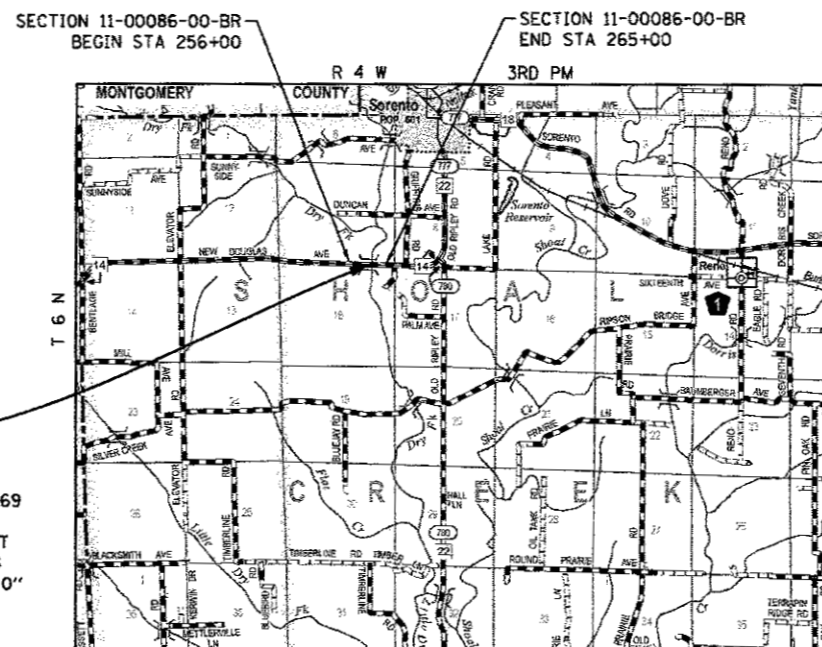
1. COVER SHEET
2. GENERAL NOTES AND HIGHWAY STANDARDS
- 3-4. SUMMARY OF QUANTITIES
- 5-6. TYPICAL ROADWAY SECTIONS
- 7-8. SCHEDULES OF QUANTITIES
- 9-10. ALIGNMENT, TIES AND BENCHMARKS
- 11-12. PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS
- 13-14. PLAN AND PROFILE PROPOSED IMPROVEMENTS
15. DETOUR MAP
- 16-17. EROSION CONTROL PLAN
- 18-20. CONSTRUCTION DETAILS
21. GENERAL PLAN & ELEVATION
22. GENERAL DATA
23. SUPERSTRUCTURE
24. 33"x36" PPC DECK BEAM
25. 33"x36" PPC DECK BEAM DETAILS
26. WEST PILE BENT ABUTMENT
27. EAST PILE BENT ABUTMENT
28. PIER 1 DETAILS
29. PIER 2 DETAILS
30. STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
31. HP PILE DETAILS
32. SOIL BORING LOGS
- 33-42. CROSS SECTIONS

#### DESIGN CLASSIFICATION

MAJOR COLLECTOR (NON-URBAN) ADT = 750-2000  
CURRENT ADT = 675 (2015)  
DESIGN ADT = 894 (2036)  
DESIGN SPEED = 50 MPH

#### PROJECT LOCATION

EXISTING STRUCTURE NO. 003-3002  
PROPOSED STRUCTURE NO. 003-3054 STATION 259+69  
THREE SPAN, PRECAST PRESTRESSED CONCRETE  
DECK BEAMS (33" DEPTH) ON SPILL THRU PILE BENT  
ABUTMENTS AND PILE SUPPORTED PIERS MEASURING  
188'-0" BACK TO BACK OF ABUTMENTS WITH A 30'-0"  
CLEAR ROADWAY WIDTH.

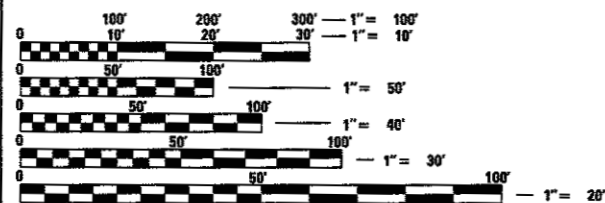


#### LOCATION MAP

SCALE IN MILES



NET LENGTH OF PROJECT = 900 FEET = 0.170 MILES



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

|   |  |
|---|--|
| BOND COUNTY HIGHWAY DEPARTMENT                    |  |
| APPROVED  | March 14 20 17<br><i>[Signature]</i><br>BOND COUNTY ENGINEER                           |
| PASSED  | March 17 20 17<br><i>[Signature]</i><br>DISTRICT 8 ENGINEER OF LOCAL ROADS AND STREETS |
| RELEASING FOR BID<br>BASED UPON LIMITED<br>REVIEW | March 17 20 17<br><i>[Signature]</i><br>REGION FIVE ENGINEER                           |
| STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  |



*[Signature]*  
KENT J. SCHWIERJOHN, P.E.  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER (062-066103)  
REGISTRATION EXPIRES NOVEMBER 30, 2020



**GENERAL NOTES**

- ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY HAVE BEEN CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITIES. THE APPROXIMATE LOCATIONS OF THE KNOWN UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- THE CONTRACTOR SHALL GIVE AT LEAST TWO WEEKS NOTICE BEFORE BEGINNING CONSTRUCTION SO THE ENGINEER MAY GIVE ADEQUATE NOTICE TO ALL EMERGENCY, SCHOOL AND POSTAL SERVICES.
- THE CONTRACTOR SHALL EXERCISE CARE IN PERFORMING REMOVALS SO AS NOT TO DISRUPT ADJOINING FEATURES THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED TO ADJOINING FEATURES AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POSITIVE DRAINAGE IN THE DISTURBED AREAS, TO THE SATISFACTION OF THE ENGINEER. ANY GRADING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL AREAS THAT ARE DISTURBED BEYOND THE SEEDING LIMITS SHALL BE GRADED AND SEEDING RE-ESTABLISHED BY THE CONTRACTOR AT HIS/HER EXPENSE, IN THE SAME MANNER AS FINAL GRADING WORK PER THE SPECIFICATIONS, TO THE SATISFACTION OF THE ENGINEER.
- GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE, IN THE ORIGINAL STATE, AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL ENTRANCES WITHIN THE PROJECT LIMITS SHALL REMAIN ACCESSIBLE, AS DIRECTED BY THE ENGINEER, THROUGHOUT THE TIME OF CONSTRUCTION.
- REMOVAL OF EXISTING ROW MARKERS WITHIN THE PROJECT LIMITS, FENCES AND DITCH CHECKS OR OTHER OBSTRUCTIONS NOT PAID FOR ELSEWHERE, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN THE CALCULATION OF THE PLAN QUANTITIES:

|                                    |                               |
|------------------------------------|-------------------------------|
| AGGREGATE (BASE & SURFACE)         | 2.05 TONS/CY                  |
| RIPRAP                             | 1.6 TONS/CY                   |
| TEMPORARY DITCH CHECKS             | 11 FT/DITCH CHECK             |
| HOT-MIX ASPHALT (LEVELING BINDER)  | 2.016 TONS/CY = 112 LBS/SY/IN |
| HOT-MIX ASPHALT (BINDER & SURFACE) | 2.016 TONS/CY = 112 LBS/SY/IN |

**HIGHWAY STANDARDS**

| STD.NO    | STD TITLE   |
|-----------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS  |
| 001001-02 | AREAS OF REINFORCEMENT BARS   |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT  |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS   |
| 482011-03 | HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS               |
| 515001-03 | NAME PLATE FOR BRIDGES  |
| 542401-02 | METAL END SECTION FOR PIPE CULVERTS   |
| 630001-11 | STEEL PLATE BEAM GUARDRAIL  |
| 630301-07 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  |
| 631011-10 | TRAFFIC BARRIER TERMINAL, TYPE 2  |
| 631032-09 | TRAFFIC BARRIER TERMINAL, TYPE 6A   |
| 701901-06 | TRAFFIC CONTROL DEVICES   |
| 720001-01 | SIGN PANEL MOUNTING DETAILS   |
| 720006-04 | SIGN PANEL ERECTION DETAILS   |
| 725001-01 | OBJECT AND TERMINAL MARKERS   |
| 780001-05 | TYPICAL PAVEMENT MARKINGS   |
| 782006    | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS   |
| BLR 21-9  | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS           |
| BLR 22-7  | TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.) |
| BLR 24-2  | MAILBOX TURNOUT FOR LOCAL ROADS   |

**COMMITMENTS**

NONE

**UTILITIES**

**ELECTRIC & GAS:**

AMEREN IP  
 GAS EMERGENCY (800) 755-6000  
 ELECTRIC EMERGENCY: (800) 755-7000  
 CONSTRUCTION: (800) 892-7715

**COMMUNICATIONS:**

FRONTIER COMMUNICATIONS  
 MELVIN EADS  
 CARLINVILLE, IL 62626  
 (217) 854-2025 - OFFICE  
 (217) 556-0163 - MOBILE

**WATER:**

THREE COUNTY PUBLIC WATER DISTRICT  
 WILLIAM HICKS  
 NEW DOUGLAS, IL 62074  
 (217) 456-8231

**ELECTRIC:**

SOUTHWESTERN ELECTRIC  
 KIM JACKSON  
 GREENVILLE, IL 62246  
 (618) 664-5922

**MIXTURE COMPOSITION TABLE**

| MIXTURE USE:         | SURFACE              | LEVELING BINDER      | WIDENING             | BINDER               | SHOULDERS            |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| APPLICATION:         | HMA SC "C" N50       | LEV BIND MM N50      | HMA BC WID 6         | HMA BC IL-19.0 N50   | HMA SHOULDERS 6      |
| AC/PG:               | PG 64-22             | PG 64-22             | PG 64-22             | PG 64-22             | PG 64-22             |
| RAP% (MAX):          | SEE SPECIF.          | SEE SPECIF.          | SEE SPECIF.          | SEE SPECIF.          | SEE SPECIF.          |
| DESIGN AIR VOIDS:    | 4.0% @ Ndes=50       | 4.0% @ Ndes=50       | 4.0% @ Ndes=50       | 4.0% @ Ndes=50       | 4.0% @ Ndes=50       |
| MIXTURE COMPOSITION: | IL 9.5               | IL 9.5               | IL 19.0              | IL 19.0              | IL 19.0              |
| FRICTION AGGREGATE:  | MIXTURE "C"          |                      |                      |                      |                      |
| MIXTURE WEIGHT:      | 112 LBS./SQ. YD./IN. | 112 LBS./SQ. YD./IN. | 112 LBS./SQ. YD./IN. | 112 LBS./SQ. YD./IN. | 112 LBS./SQ. YD./IN. |

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| DATE                        |  |
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| PLAN                        |  |
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| STRUCTURE NOTATIONS CHECKED |  |
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| NO.                         |  |

**SUMMARY OF QUANTITIES**

| SPEC. PROV. SPECIALTY ITEM | CODE NO. | ITEM DESCRIPTION                             | UNIT  | TOTAL QUANTITY |
|----------------------------|----------|--|-------|----------------|
|                            | 20100500 | TREE REMOVAL, ACRES                          | ACRE  | 0.25           |
|                            | 20200100 | EARTH EXCAVATION                             | CU YD | 1017           |
| *                          | 20200500 | EARTH EXCAVATION (WIDENING)                  | CU YD | 223            |
| *                          | 20300100 | CHANNEL EXCAVATION                           | CU YD | 1348           |
| *                          | 20400800 | FURNISHED EXCAVATION                         | CU YD | 2184           |
| *                          | 20800150 | TRENCH BACKFILL                              | CU YD | 26             |
| *                          | 25000210 | SEEDING, CLASS 2A                            | ACRE  | 1.5            |
| *                          | 25000400 | NITROGEN FERTILIZER NUTRIENT                 | POUND | 135            |
| *                          | 25000500 | PHOSPHORUS FERTILIZER NUTRIENT               | POUND | 135            |
| *                          | 25000600 | POTASSIUM FERTILIZER NUTRIENT                | POUND | 135            |
| *                          | 25100115 | MULCH, METHOD 2                              | ACRE  | 1.5            |
|                            | 28000250 | TEMPORARY EROSION CONTROL SEEDING            | POUND | 150            |
|                            | 28000305 | TEMPORARY DITCH CHECKS                       | FOOT  | 121            |
|                            | 28000400 | PERIMETER EROSION BARRIER                    | FOOT  | 129            |
|                            | 28000500 | INLET AND PIPE PROTECTION                    | EACH  | 1              |
| *                          | 28100805 | STONE DUMPED RIPRAP, CLASS A3                | TON   | 532            |
| *                          | 28100807 | STONE DUMPED RIPRAP, CLASS A4                | TON   | 72             |
| *                          | 28100809 | STONE DUMPED RIPRAP, CLASS A5                | TON   | 1074           |
|                            | 35100300 | AGGREGATE BASE COURSE, TYPE A 4"             | SQ YD | 944            |
| *                          | 35600700 | HOT-MIX ASPHALT BASE COURSE WIDENING, 6"     | SQ YD | 746            |
|                            | 40200100 | AGGREGATE SURFACE COURSE, TYPE A             | TON   | 39             |
|                            | 40600625 | LEVELING BINDER (MACHINE METHOD), N50        | TON   | 94             |
|                            | 40603080 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50  | TON   | 876            |
|                            | 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON   | 255            |
|                            | 40600290 | BITUMINOUS MATERIALS (TACK COAT)             | POUND | 1043           |
|                            | 44000100 | PAVEMENT REMOVAL                             | SQ YD | 159            |
|                            | 44000152 | HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"        | SQ YD | 1047           |
|                            | 44004000 | PAVED DITCH REMOVAL                          | FOOT  | 108            |
|                            | 44300200 | STRIP REFLECTIVE CRACK CONTROL TREATMENT     | FOOT  | 1424           |
|                            | 48100100 | AGGREGATE SHOULDERS, TYPE A                  | TON   | 97             |
|                            | 48203021 | HOT-MIX ASPHALT SHOULDERS, 6"                | SQ YD | 523            |
|                            | 50100100 | REMOVAL OF EXISTING STRUCTURES               | EACH  | 1              |
|                            | 50105220 | PIPE CULVERT REMOVAL                         | FOOT  | 163            |
|                            | 50200100 | STRUCTURE EXCAVATION                         | CU YD | 94             |

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|      | STRUCTURE NOTATIONS CHECKED |      |
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| PROFILE | SURVEYED                    | DATE |
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|         | STRUCTURE NOTATIONS CHECKED |      |
|         | CADD FILE NAME              |      |
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**SUMMARY OF QUANTITIES**

| SPEC. PROV. SPECIALTY ITEM | CODE NO. | ITEM DESCRIPTION                                    | UNIT  | TOTAL QUANTITY |
|----------------------------|----------|---|-------|----------------|
|                            | 50300225 | CONCRETE STRUCTURES                                 | CU YD | 65.8           |
|                            | 50300280 | CONCRETE ENCASEMENT                                 | CU YD | 59.9           |
|                            | 50400605 | PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH) | SQ FT | 5600           |
|                            | 50800205 | REINFORCEMENT BARS, EPOXY COATED                    | POUND | 9290           |
| *                          | 50901050 | STEEL RAILING, TYPE SM                              | FOOT  | 377            |
|                            | 51201600 | FURNISHING STEEL PILES HP12X53                      | FOOT  | 232            |
|                            | 51201800 | FURNISHING STEEL PILES HP14X73                      | FOOT  | 426            |
|                            | 51202305 | DRIVING PILES                                       | FOOT  | 232            |
|                            | 51203600 | TEST PILE STEEL HP12X53                             | EACH  | 2              |
|                            | 51500100 | NAME PLATES   | EACH  | 1              |
|                            | 54213879 | STEEL END SECTIONS 24"                              | EACH  | 2              |
| *                          | 542D1069 | PIPE CULVERTS, CLASS D, TYPE 2 24"                  | FOOT  | 155            |
|                            | 58100200 | WATERPROOFING MEMBRANE SYSTEM                       | SQ YD | 623            |
|                            | 58300100 | PORTLAND CEMENT MORTAR FAIRING COURSE               | FOOT  | 1680           |
|                            | 59300100 | CONTROLLED LOW-STRENGTH MATERIAL                    | CU YD | 34.0           |
| *                          | 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS    | FOOT  | 162.5          |
| *                          | 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2                    | EACH  | 1              |
| *                          | 63100087 | TRAFFIC BARRIER TERMINAL, TYPE 6A                   | EACH  | 4              |
| **                         | 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT  | EACH  | 5              |
| *                          | 63200310 | GUARDRAIL REMOVAL                                   | FOOT  | 310            |
|                            | 67100100 | MOBILIZATION  | LSUM  | 1              |
| *                          | 72501000 | TERMINAL MARKER - DIRECT APPLIED                    | EACH  | 5              |
| *                          | 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4"            | FOOT  | 2925           |
| *                          | 78200005 | GUARDRAIL REFLECTORS, TYPE A                        | EACH  | 8              |
| *                          | 78200011 | BARRIER WALL REFLECTORS, TYPE C                     | EACH  | 6              |
| *                          | Z0013798 | CONSTRUCTION LAYOUT                                 | LSUM  | 1              |
| *                          | Z0065000 | SETTING PILES IN ROCK                               | EACH  | 12             |
| *                          | X4401198 | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH     | SQ YD | 684            |
| **                         | X6330725 | STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)           | FOOT  | 37.5           |
| Δ*                         | Z0076600 | TRAINEES  | Hour  | 1,000          |
| *                          | X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)           | LSUM  | 1              |
| Δ*                         | Z0076604 | TRAINEES TRAINING PROGRAM GRADUATE                  | Hour  | 1,000          |

Δ-0042 TRAINEES

|                     |      |
|---------------------|------|
| PLAN                | DATE |
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| REVIEWED            |      |
| ALIGNED             |      |
| CHECKED             |      |
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| GRADES CHECKED          |      |
| PLAN NOTED              |      |
| STRUCTURE NOTATION OK'D |      |
| NOTE BOOK NO.           |      |

|  |                            |            |           |   |   |                |                           |         |                    |              |           |
|--|----------------------------|------------|-----------|---|---|----------------|---------------------------|---------|--------------------|--------------|-----------|
| FILE NAME = H:\6620_BondCo_New Douglas\CADD_Sheets\6620-SHT-SQ.dgn | USER NAME = kschiefer.john | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>SUMMARY OF QUANTITIES</b>                |                | FAS                       | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = 20.0000' / 1"   | CHECKED -                  | REVISED -  | REVISED - |   | 777   | 11-00086-00-BR | BOND                      | 42      | 4                  |              |           |
| PLOT DATE = 3/16/2017  | DATE -                     | REVISED -  | REVISED - |   | SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA. |                | SN 003-3054               |         | CONTRACT NO. 97648 |              |           |
|  |                            |            |           |   |   |                | ILLINOIS FED. AID PROJECT |         |                    |              |           |

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EXISTING ROW VARIES (69' TO 84')

- NOTES**
- EXISTING BRIDGE OMISSION - STA 258+84 TO STA 260+53.
  - SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF EXISTING GUARDRAIL.

**EXISTING TYPICAL SECTION**  
STA 256+00 TO STA 257+60

**TYPICAL SECTION LEGEND**

- (E1) EXISTING PAVEMENT (8" AGG BASE, 5" HMA)
- (E2) EXISTING EARTH SHOULDER
- (E3) EXISTING PAVED DITCH (CONCRETE)
- (E4) EXISTING GUARDRAIL
- (1) EMBANKMENT
- (2) PAVEMENT REMOVAL
- (3A) AGG BASE COURSE, TY A 4"
- (3B) HMA BASE COURSE WIDENING, 6"
- (4) HMA SURFACE REMOVAL
- (5) BITUMINOUS MATERIALS (TACK COAT)
- (6A) LEVELING BINDER (MACHINE METHOD), N50
- (6B) HMA BINDER COURSE, IL 19.0, N50
- (7) HMA SURFACE COURSE (1.5")
- (8) HMA SHOULDLERS, 6"
- (9) AGG SHOULDLERS, TY A (6")
- (10) STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS
- (11) STRIP REFLECTIVE CRACK CONTROL

EXISTING ROW VARIES (49' TO 76')

**EXISTING TYPICAL SECTION**  
STA 257+60 TO STA 258+84  
STA 260+53 TO STA 265+00

|   |                          |            |                           |   |                         |                    |         |        |              |           |
|---|--------------------------|------------|---------------------------|---|-------------------------|--------------------|---------|--------|--------------|-----------|
| FILE NAME =   | USER NAME = kachwan.john | DESIGNED - | REVISED -                 | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>TYPICAL SECTIONS</b> | FAS                | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| HA6622-BondCo-New Douglas\CAD\Drawings\20-SHT-typroe1.dgn                                       | DRAWN -                  | REVISED -  | 777                       |   |                         | 11-00086-00-BR     | BOND    | 42     | 5            |           |
| PLOT SCALE = 1/4" = 10.0000' / 1"   | CHECKED -                | REVISED -  | SN 003-3054               |   |                         | CONTRACT NO. 97648 |         |        |              |           |
| PLOT DATE = 3/16/2017   | DATE -                   | REVISED -  | ILLINOIS FED. AID PROJECT |   |                         |                    |         |        |              |           |
| HMG ENGINEERS, INC. LAKE RD., P.O. BOX 70 CARLYLE, IL 62231 (618) 594-3711 WWW.HMGENGINEERS.COM |                          |            |                           | SCALE:  | SHEET NO. 1 OF 2 SHEETS | STA.               | TO STA. |        |              |           |

|           |  |
|-----------|--|
| DATE      |  |
| BY        |  |
| DESIGNED  |  |
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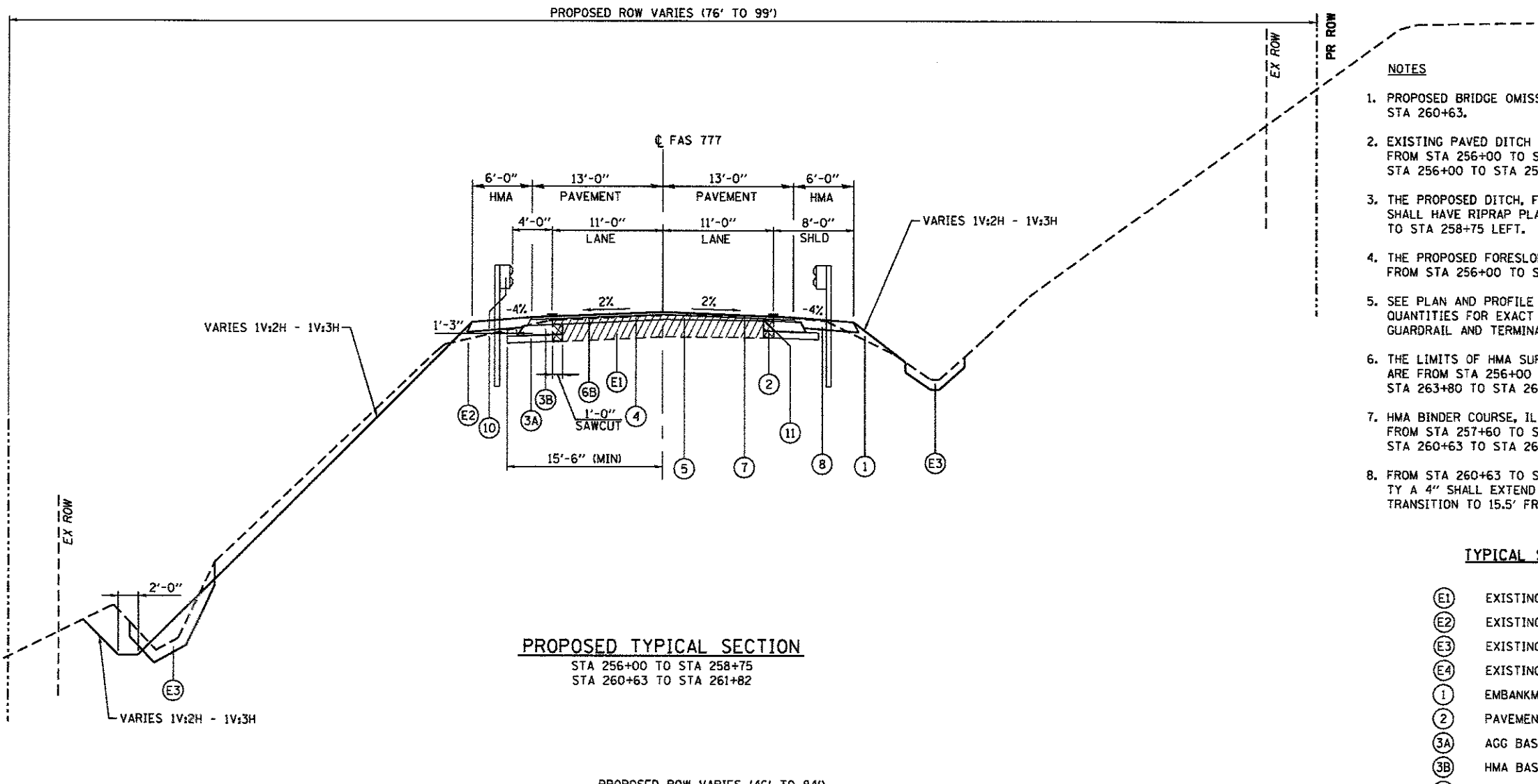
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**SLOPE SCHEDULE**

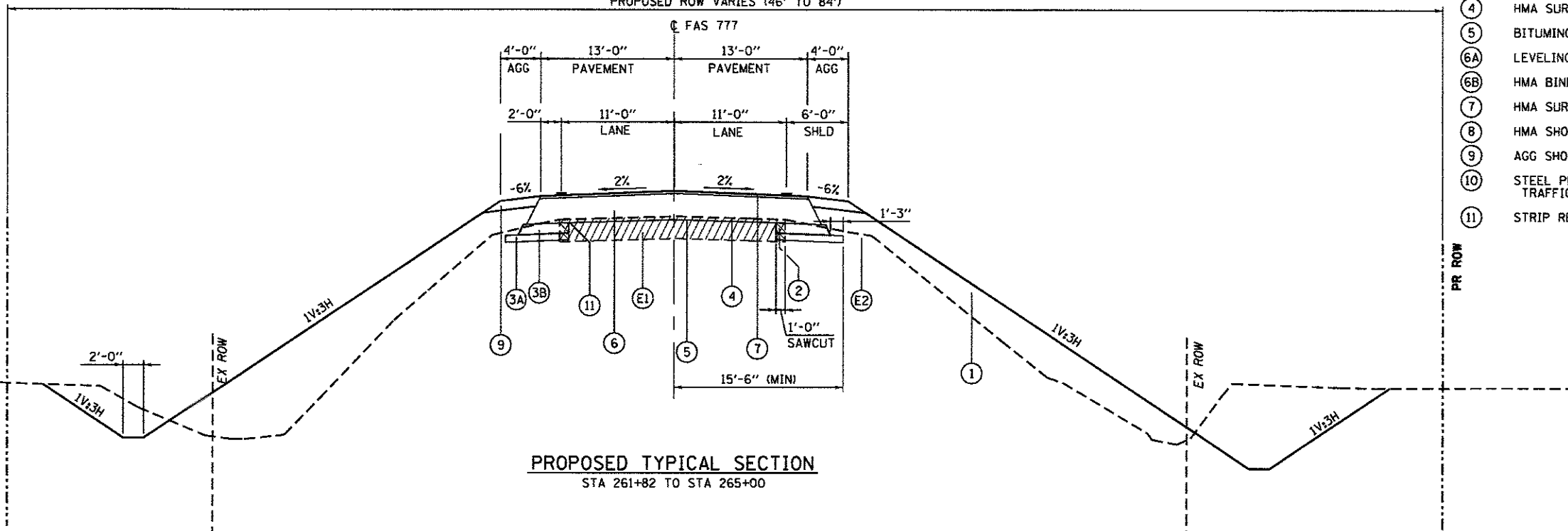
| LEFT       | FORESLOPE | BACK SLOPE |
|------------|-----------|------------|
| STA 256+00 | 1V:3H     | 1V:3H      |
| STA 256+80 | 1V:2H     | 1V:2H      |
| STA 258+75 | 1V:2H     | 1V:2H      |
| STA 260+63 | 1V:3H     | 1V:3H      |
| STA 265+00 | 1V:3H     | 1V:3H      |

| RIGHT      | FORESLOPE | BACK SLOPE |
|------------|-----------|------------|
| STA 256+00 | 1V:2.5H   | N/A        |
| STA 256+80 | 1V:2.5H   | N/A        |
| STA 258+75 | 1V:2.5H   | N/A        |
| STA 260+63 | 1V:3H     | 1V:3H      |
| STA 265+00 | 1V:3H     | 1V:3H      |



**PROPOSED TYPICAL SECTION**  
STA 256+00 TO STA 258+75  
STA 260+63 TO STA 261+82



**PROPOSED TYPICAL SECTION**  
STA 261+82 TO STA 265+00

**NOTES**

1. PROPOSED BRIDGE OMISSION - STA 258+75 TO STA 260+63.
2. EXISTING PAVED DITCH (CONCRETE) SHALL REMAIN FROM STA 256+00 TO STA 256+80 LEFT AND FROM STA 256+00 TO STA 257+48.5 RIGHT.
3. THE PROPOSED DITCH, FORESLOPE AND BACKSLOPE SHALL HAVE RIPRAP PLACED FROM STA 256+00 TO STA 258+75 LEFT.
4. THE PROPOSED FORESLOPE SHALL HAVE RIPRAP PLACED FROM STA 256+00 TO STA 257+24.8 RIGHT.
5. SEE PLAN AND PROFILE SHEETS AND SCHEDULES OF QUANTITIES FOR EXACT LOCATIONS OF PROPOSED GUARDRAIL AND TERMINALS.
6. THE LIMITS OF HMA SURFACE REMOVAL, VARIABLE DEPTH ARE FROM STA 256+00 TO STA 257+60 AND FROM STA 263+80 TO STA 265+00.
7. HMA BINDER COURSE, IL 19.0, N50 SHALL BE USED FROM STA 257+60 TO STA 258+75 AND FROM STA 260+63 TO STA 263+80.
8. FROM STA 260+63 TO STA 262+00, AGG BASE COURSE, TY A 4" SHALL EXTEND TO 17.0' FROM C. THIS SHALL TRANSITION TO 15.5' FROM STA 262+00 TO STA 263+00.

**TYPICAL SECTION LEGEND**

- (E1) EXISTING PAVEMENT (8" AGG BASE, 5" HMA)
- (E2) EXISTING EARTH SHOULDER
- (E3) EXISTING PAVED DITCH (CONCRETE)
- (E4) EXISTING GUARDRAIL
- (1) EMBANKMENT
- (2) PAVEMENT REMOVAL
- (3A) AGG BASE COURSE, TY A 4"
- (3B) HMA BASE COURSE WIDENING, 6"
- (4) HMA SURFACE REMOVAL
- (5) BITUMINOUS MATERIALS (TACK COAT)
- (6A) LEVELING BINDER (MACHINE METHOD), N50
- (6B) HMA BINDER COURSE, IL 19.0, N50
- (7) HMA SURFACE COURSE (1.5")
- (8) HMA SHOULDERS, 6"
- (9) AGG SHOULDERS, TY A (6")
- (10) STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS
- (11) STRIP REFLECTIVE CRACK CONTROL

**EARTHWORK SCHEDULE**

| LOCATION   | A                  | B1                          | B2               | C = B1 + B2                            | D             | E = C - D                          |
|--|--------------------|-----------------------------|------------------|--|---------------|------------------------------------|
|  | CHANNEL EXCAVATION | EARTH EXCAVATION (WIDENING) | EARTH EXCAVATION | EXCAVATION ADJUSTED FOR SHRINKAGE/LOSS | REQUIRED FILL | BALANCE: WASTE (+) OR SHORTAGE (-) |
|  | CU YD              | CU YD                       | CU YD            | CU YD                                  | CU YD         | CU YD                              |
| STA 256+00.00 TO STA 258+75.00 (WEST ABUTMENT)                 |                    | 78.6                        | 119.0            | 148.2                                  | 501.5         | -353.3                             |
| STA 258+75.00 (WEST ABUTMENT) TO STA 260+63.00 (EAST ABUTMENT) | 1347.9             |                             |                  | 758.2                                  | 686.1         | 72.1                               |
| STA 260+63.00 (EAST ABUTMENT) TO STA 265+00.00                 |                    | 144.2                       | 897.1            | 781.0                                  | 2683.2        | -1902.2                            |
| <b>TOTAL</b>   | 1347.9             | 222.8                       | 1016.1           | 1687.3                                 | 3870.8        | -2183.4                            |
| <b>USE</b>   | 1348               | 223                         | 1017             | 1688                                   | 3871          | -2184                              |

**NOTES:**  
 ESTIMATED EARTHWORK QUANTITIES OUTSIDE THE ABUTMENTS WERE CALCULATED FROM CROSS-SECTION END AREAS.  
 ESTIMATED EARTHWORK QUANTITIES BETWEEN THE ABUTMENTS WERE CALCULATED USING AN EXISTING SURFACE MODEL AND A PROPOSED SURFACE MODEL.  
 SCHEDULE ASSUMES A 25% SHRINKAGE/LOSS FACTOR. (CHANNEL EXCAVATION ADJUSTED FOR 25% SHRINKAGE/LOSS AND 25% WASTE).  
 COLUMN "A" - ESTIMATED VOLUME OF CUT MATERIAL FROM BETWEEN THE ABUTMENTS (CHANNEL EXCAVATION).  
 COLUMN "B1" - ESTIMATED VOLUME OF CUT MATERIAL REQUIRED TO CONSTRUCT THE WIDENING (EARTH EXCAVATION (WIDENING)).  
 COLUMN "B2" - ESTIMATED VOLUME OF CUT MATERIAL OUTSIDE THE ABUTMENTS (EARTH EXCAVATION).  
 COLUMN "C" - ESTIMATED VOLUME OF CUT MATERIAL ADJUSTED FOR WASTE & SHRINKAGE/LOSS THAT IS SUITABLE FOR EMBANKMENT (NOT A PAY ITEM).  
 COLUMN "D" - ESTIMATED VOLUME OF FILL MATERIAL REQUIRED (NOT A PAY ITEM).  
 COLUMN "E" - ESTIMATED EARTHWORK MATERIAL BALANCE (FURNISHED EXCAVATION).

**REMOVALS SCHEDULE**

| LOCATION                             | TREE REMOVAL, ACRES | PAVED DITCH REMOVAL | GUARDRAIL REMOVAL |
|--------------------------------------|---------------------|---------------------|-------------------|
| STATION                              | ACRE                | FOOT                | FOOT              |
| STA 257+73.00 RT TO STA 258+10.00 RT | 0.01                |                     |                   |
| STA 258+14.00 RT TO STA 261+45.00 RT | 0.19                |                     |                   |
| STA 259+11.00 LT TO STA 260+53.00 LT | 0.03                |                     |                   |
| STA 256+80.00 LT TO STA 257+59.38 LT |                     | 83.2                |                   |
| STA 257+48.57 RT TO STA 257+62.68 RT |                     | 14.1                |                   |
| STA 259+23.77 RT TO STA 259+33.87 RT |                     | 10.2                |                   |
| STA 258+06.58 LT TO STA 258+84.15 LT |                     |                     | 77.6              |
| STA 258+07.04 RT TO STA 258+84.32 RT |                     |                     | 77.6              |
| STA 260+53.40 LT TO STA 261+30.21 LT |                     |                     | 76.9              |
| STA 260+53.53 RT TO STA 261+30.50 RT |                     |                     | 77.0              |
| <b>TOTAL</b>                         | 0.23                | 107.5               | 309.1             |
| <b>USE</b>                           | 0.25                | 108                 | 310               |

**PIPE CULVERT SCHEDULE**

| LOCATION   | PIPE CULVERT REMOVAL | PIPE CULVERTS, CLASS D, TYPE 2 24" | STEEL END SECTIONS 24" | TRENCH BACKFILL |
|--|----------------------|------------------------------------|------------------------|-----------------|
|  | FOOT                 | FOOT                               | EACH                   | CU YD           |
| ENTRANCE   |                      |                                    |                        |                 |
| PE 257+72.91 RT STA 257+48.57 27.78' 541.61 TO STA 259+09.59 43.99' 518.45 | 163.0                | 155.0                              | 2                      | 25.5            |
| <b>TOTAL</b>   | 163.0                | 155.0                              | 2                      | 25.5            |
| <b>USE</b>   | 163                  | 155                                | 2                      | 26              |

**PAVING SCHEDULE**

| LOCATION   | AGGREGATE SURFACE COURSE, TYPE A | PAVEMENT REMOVAL | AGGREGATE BASE COURSE, TYPE A 4" | HOT-MIX ASPHALT BASE COURSE WIDENING, 6" | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" | BITUMINOUS MATERIALS (TACK COAT) | LEVELING BINDER (MACHINE METHOD), N50 | HOT-MIX ASPHALT BINDER COURSE, IL - 19.0, N50 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | HOT-MIX ASPHALT SHOULDERS, 6" | AGGREGATE SHOULDERS, TYPE A | STRIP REFLECTIVE CRACK CONTROL TREATMENT |
|--|----------------------------------|------------------|----------------------------------|--|---|---------------------------------------|----------------------------------|---------------------------------------|---|--|-------------------------------|-----------------------------|--|
|  | TON                              | SQ YD            | SQ YD                            | SQ YD                                    | SQ YD   | SQ YD                                 | POUND                            | TON                                   | TON   | TON  | SQ YD                         | TON                         | FOOT                                     |
| STA 256+00.00 TO STA 258+75.00 (WEST ABUTMENT)                 |                                  | 61.1             | 337.4                            | 261.0                                    | 392.6   | 278.2                                 | 391.9                            | 61.2                                  | 78.0  | 67.1   | 366.7                         |                             | 550.0                                    |
| STA 258+75.00 (WEST ABUTMENT) TO STA 260+63.00 (EAST ABUTMENT) |                                  |                  |                                  |  |   |                                       |                                  |                                       |   | 81.0   |                               |                             |  |
| STA 260+63.00 (EAST ABUTMENT) TO STA 265+00.00                 |                                  | 97.1             | 605.7                            | 484.4                                    | 291.1   | 767.8                                 | 650.8                            | 31.9                                  | 797.1   | 106.7  | 156.0                         | 96.6                        | 874.0                                    |
| ENTRANCE   |                                  |                  |                                  |  |   |                                       |                                  |                                       |   |  |                               |                             |  |
| STA 257+72.91 RT PE  | 38.9                             |                  |                                  |  |   |                                       |                                  |                                       |   |  |                               |                             |  |
| <b>TOTAL</b>   | 38.9                             | 158.2            | 943.1                            | 745.4                                    | 683.8   | 1046.0                                | 1042.6                           | 93.1                                  | 875.1   | 254.8  | 522.7                         | 96.6                        | 1424.0                                   |
| <b>USE</b>   | 39                               | 159              | 944                              | 746                                      | 684   | 1047                                  | 1043                             | 94                                    | 876   | 255  | 523                           | 97                          | 1424                                     |

**EROSION CONTROL AND SEEDING SCHEDULE**

| LOCATION                             | SEEDING, CLASS 2A | NITROGEN FERTILIZER NUTRIENT | PHOSPHORUS FERTILIZER NUTRIENT | POTASSIUM FERTILIZER NUTRIENT | MULCH, METHOD 2 | TEMPORARY EROSION CONTROL SEEDING | TEMPORARY DITCH CHECKS | PERIMETER EROSION BARRIER | INLET AND PIPE PROTECTION | STONE DUMPED RIPRAP, CLASS A3 | STONE DUMPED RIPRAP, CLASS A4 | STONE DUMPED RIPRAP, CLASS A5 |
|--------------------------------------|-------------------|------------------------------|--------------------------------|-------------------------------|-----------------|-----------------------------------|------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
|                                      | ACRE              | POUND                        | POUND                          | POUND                         | ACRE            | POUND                             | FOOT                   | FOOT                      | EACH                      | TON                           | TON                           | TON                           |
| STA 256+00.00 LT TO STA 258+75.00 LT | 0.01              | 0.9                          | 0.9                            | 0.9                           | 0.01            | 1.0                               | 11                     |                           |                           | 508.2                         | 71.4                          |                               |
| STA 256+00.00 RT TO STA 258+75.00 RT | 0.08              | 7.0                          | 7.0                            | 7.0                           | 0.08            | 7.8                               | 11                     | 54.8                      | 1                         | 23.8                          |                               |                               |
| STA 258+75.00 TO STA 260+63.00       | 0.36              | 32.4                         | 32.4                           | 32.4                          | 0.36            | 36.0                              | 44                     | 73.6                      |                           |                               |                               | 214.4                         |
| STA 260+63.00 LT TO STA 265+00.00 LT | 0.43              | 38.8                         | 38.8                           | 38.8                          | 0.43            | 43.1                              | 33                     |                           |                           |                               |                               |                               |
| STA 260+63.00 RT TO STA 265+00.00 RT | 0.53              | 47.3                         | 47.3                           | 47.3                          | 0.53            | 52.5                              | 22                     |                           |                           |                               |                               |                               |
| <b>TOTAL</b>                         | 1.40              | 126.4                        | 126.4                          | 126.4                         | 1.40            | 140.4                             | 121                    | 128.5                     | 1                         | 531.9                         | 71.4                          | 214.4                         |
| <b>USE</b>                           | 1.5               | 135                          | 135                            | 135                           | 1.5             | 150                               | 121                    | 129                       | 1                         | 532                           | 72                            | 215                           |

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**PAVEMENT MARKING SCHEDULE**

| LOCATION                       | THERMOPLASTIC PAVEMENT MARKING - LINE 4" |               |
|--------------------------------|--|---------------|
|                                | FOOT                                     |               |
|                                | YELLOW                                   | WHITE         |
| STA 256+00.00 TO STA 258+75.00 | 1125.0                                   | 1800.0        |
| STA 258+75.00 TO STA 260+63.00 |  |               |
| STA 260+63.00 TO STA 265+00.00 |  |               |
| <b>TOTAL</b>                   | <b>1125.0</b>                            | <b>1800.0</b> |
| <b>USE</b>                     | <b>2925</b>                              |               |

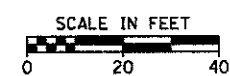
**GUARDRAIL SCHEDULE**

| LOCATION   | TRAFFIC BARRIER TERMINAL, TYPE 6A | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | TRAFFIC BARRIER TERMINAL, TYPE 2 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) | GUARDRAIL REFLECTORS, TYPE A | BARRIER WALL MARKERS, TYPE C | TERMINAL MARKER - DIRECT APPLIED |
|--|-----------------------------------|--|----------------------------------|--|---|------------------------------|------------------------------|----------------------------------|
|  | EACH                              | EACH   | EACH                             | FOOT   | FOOT                                      | EACH                         | EACH                         | EACH                             |
| STA 256+18.61 16.00' LT TO STA 258+75.00 15.00' LT | 1                                 | 1  |                                  | 162.50   |   |                              |                              | 1                                |
| STA 256+18.61 16.00' RT TO STA 257+24.84 16.00' RT |                                   | 2  |                                  |  |   | 1                            |                              | 2                                |
| STA 258+75.00 15.00' RT TO STA 258+31.10 15.00' RT | 1                                 |  |                                  |  |   |                              |                              |                                  |
| STA 258+31.10 15.00' RT TO STA 258+14.46 34.18' RT |                                   |  |                                  |  | 37.50                                     |                              |                              |                                  |
| STA 258+14.46 34.18' RT TO STA 258+20.88 46.93' RT |                                   |  | 1                                |  |   |                              |                              |                                  |
| STA 260+63.00 15.00' LT TO STA 261+60.01 16.00' LT | 1                                 | 1  |                                  |  |   |                              |                              | 1                                |
| STA 260+63.00 15.00' RT TO STA 261+60.01 16.00' RT | 1                                 | 1  |                                  |  |   |                              |                              | 1                                |
| STA 256+18.61 LT TO STA 261+60.01 LT               |                                   |  |                                  |  |   | 5                            | 3                            |                                  |
| STA 258+31.10 RT TO STA 261+60.01 RT               |                                   |  |                                  |  |   | 2                            | 3                            |                                  |
| <b>TOTAL</b>                                       | <b>4</b>                          | <b>5</b>   | <b>1</b>                         | <b>162.50</b>                                    | <b>37.50</b>                              | <b>8</b>                     | <b>6</b>                     | <b>5</b>                         |
| <b>USE</b>   | <b>4</b>                          | <b>5</b>   | <b>1</b>                         | <b>162.5</b>                                     | <b>37.5</b>                               | <b>8</b>                     | <b>6</b>                     | <b>5</b>                         |

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RAY A. & DELORES D. PRICE

RAY A. & DELORES D. PRICE

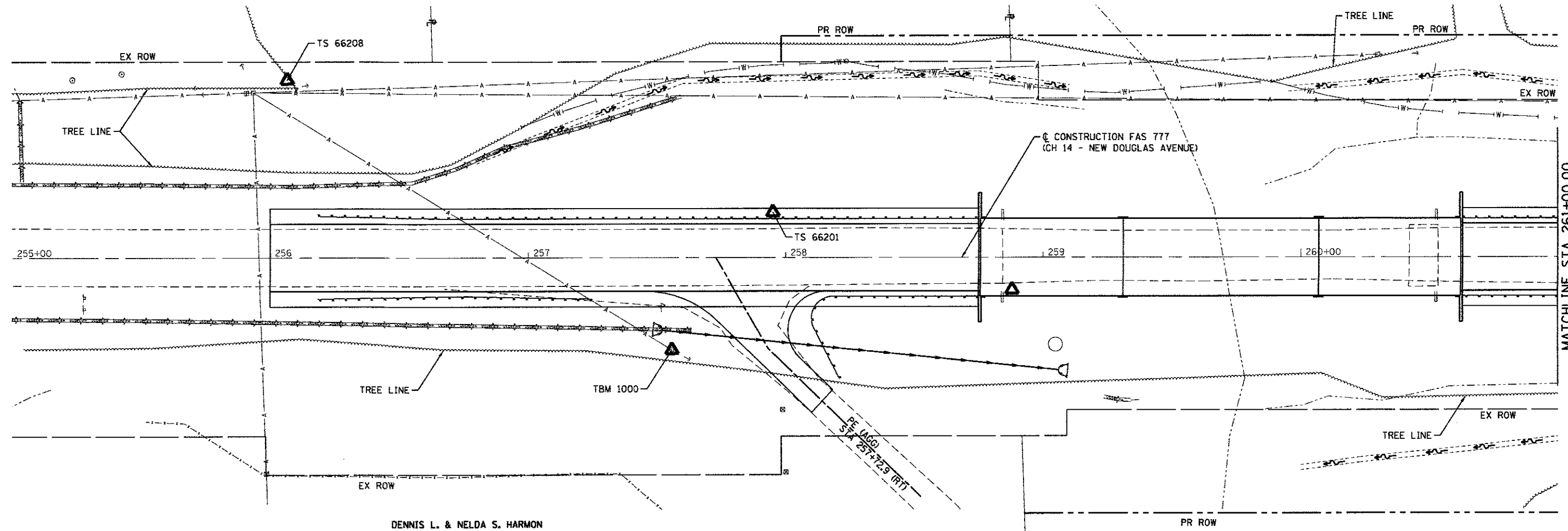
JAMES D. & RUTH A. SIRKO

DENNIS L. & NELDA S. HARMON

MEDICAL SOLUTION MINISTRIES, INC.

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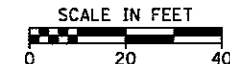
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| 259+69.00          | 841902.620 | 2462266.273 |
| 266+00.00          | 841882.059 | 2462896.938 |

TRAVERSE STATION: TS 66208  
 EL: 574.951  
 STA: 256+06.69, OFF: 68.74' LT  
 N=841983.126, E=2461906.392

BENCHMARK: TBM 1000  
 RR SPIKE IN POWER POLE  
 EL: 544.082  
 STA: 257+56.16, OFF: 35.49' RT  
 N=841874.088, E=2462052.385

TRAVERSE STATION: TS 66201  
 EL: 541.881  
 STA: 257+95.05, OFF: 17.51' LT  
 N=841925.793, E=2462092.990

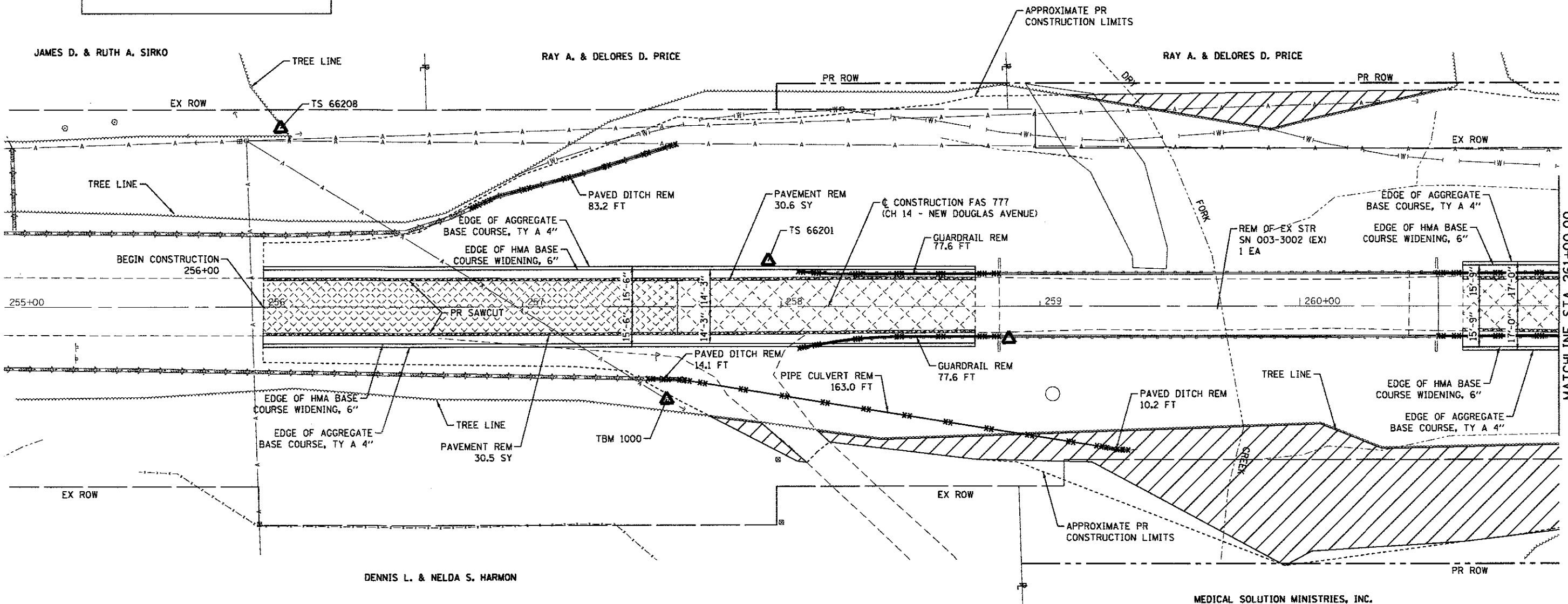




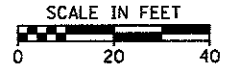
| LEGEND                        |   |
|-------------------------------|---|
|                               | TREE REMOVAL, ACRES                             |
|                               | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH |
|                               | HOT-MIX ASPHALT SURFACE REMOVAL, 1/4"           |
|                               | PAVEMENT REMOVAL                                |
| XX-XX-XX LINEAR REMOVAL ITEMS |   |

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| PLOT SCALE = 20.0000' / 1" =  | CHECKED -                  | REVISED -  | 777             |   |   | 11-00086-00-BR          | BOND    | 42                          | 11           |           |
| PLOT DATE = 3/16/2017   | DATE -                     | REVISED -  | SN 003-3054     |   |   | CONTRACT NO. 97648      |         | [ILLINOIS FED. AID PROJECT] |              |           |
| HMG ENGINEERS, INC. LAKE RD., P.O. BOX 70 CARLYLE, IL 62231 (618) 594-3711 WWW.HMGENGINEERS.COM | DATE -                     | REVISED -  | SCALE: 1" = 20' |   |   | SHEET NO. 1 OF 2 SHEETS |         | STA. TO STA.                |              |           |

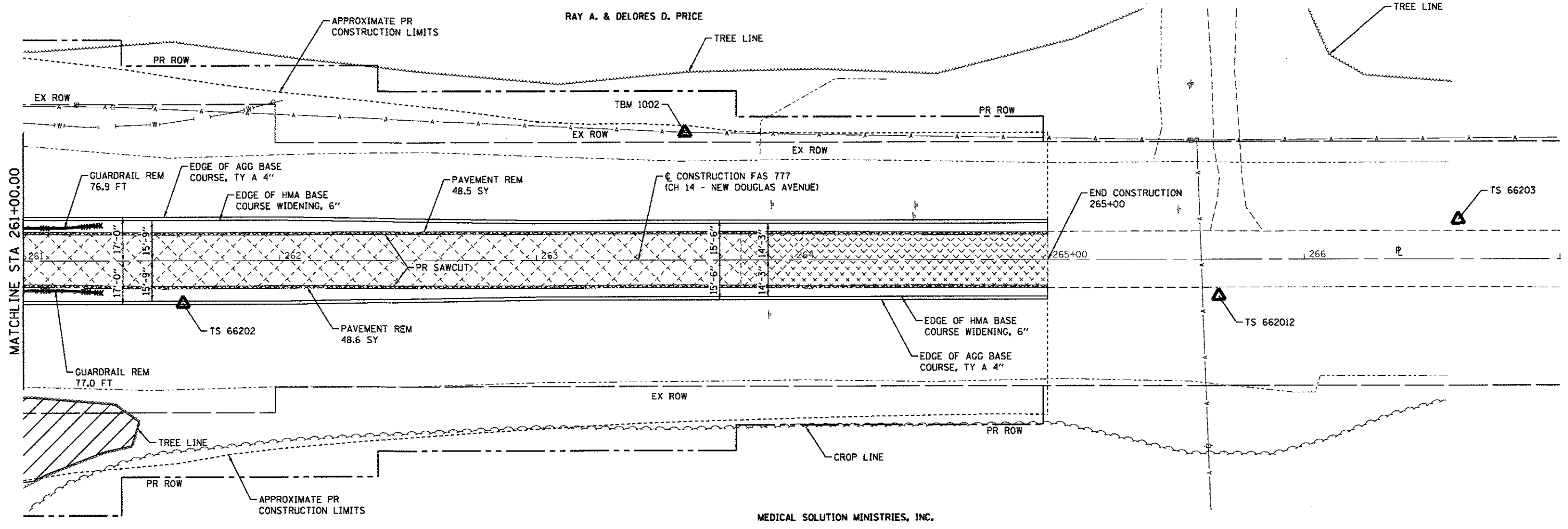


**LEGEND**

- TREE REMOVAL, ACRES
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"
- PAVEMENT REMOVAL
- XX-XX-XX LINEAR REMOVAL ITEMS

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| B.M. NO. USED      |  |
| STRUCTURE NOTATION |  |
| GRID               |  |
| NOTE BOOK NO.      |  |
| FILE NAME          |  |



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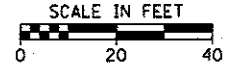
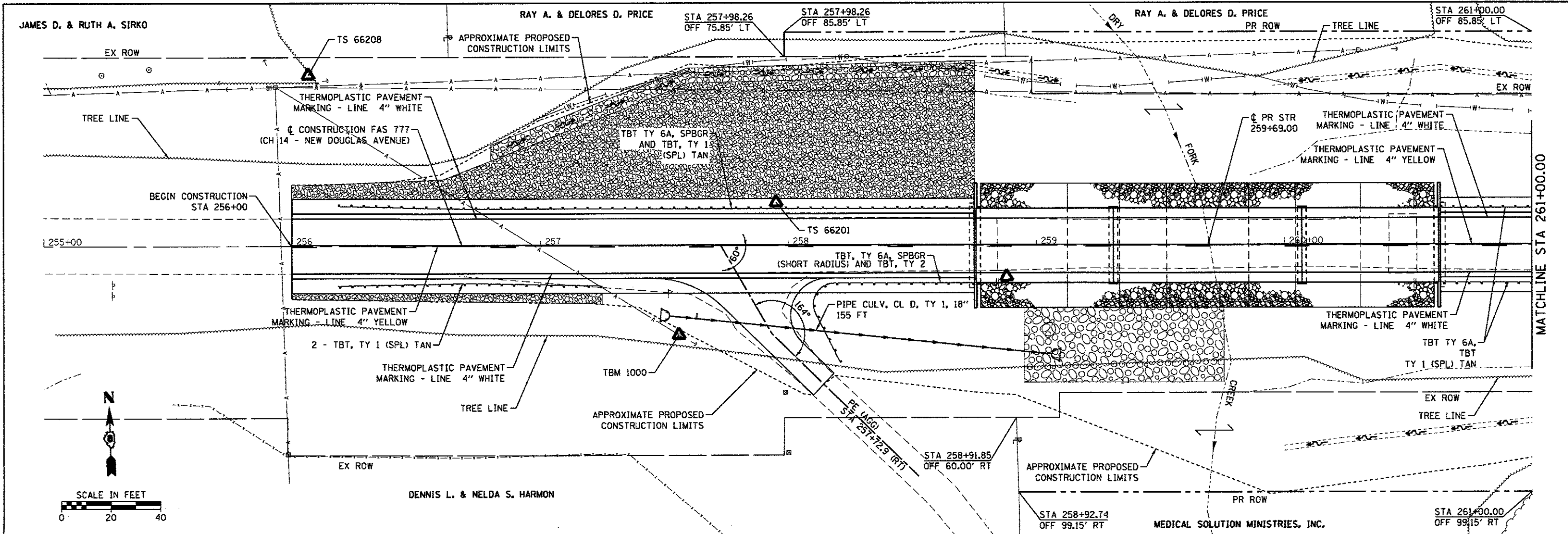
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING TOPOGRAPHY & REMOVALS**

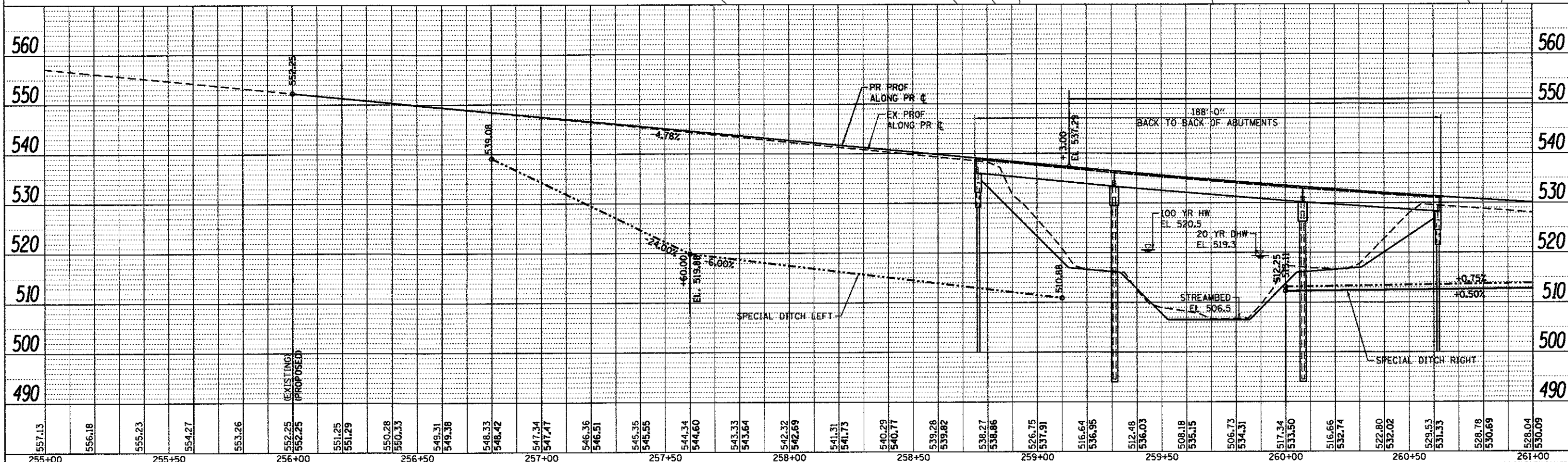
SCALE: 1" = 20'    SHEET NO. 2 OF 2 SHEETS    STA.    TO STA.

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 12        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |

|         |  |
|---------|--|
| DATE    |  |
| BY      |  |
| REVISED |  |
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| NO.     |  |



|         |  |
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| DATE    |  |
| BY      |  |
| REVISED |  |
| NOTED   |  |
| NO.     |  |



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| 557.13 | 556.18 | 555.23 | 554.27 | 553.26 | 552.25 | 551.25 | 550.28 | 549.31 | 548.33 | 547.34 | 546.36 | 545.35 | 544.34 | 543.33 | 542.32 | 541.31 | 540.29 | 539.28 | 538.27 | 537.91 | 536.03 | 535.15 | 534.31 | 533.50 | 532.74 | 532.02 | 529.53 | 528.78 | 528.04 |  |
| 255+00 | 255+50 | 256+00 | 256+50 | 257+00 | 257+50 | 258+00 | 258+50 | 259+00 | 259+50 | 260+00 | 260+50 | 261+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

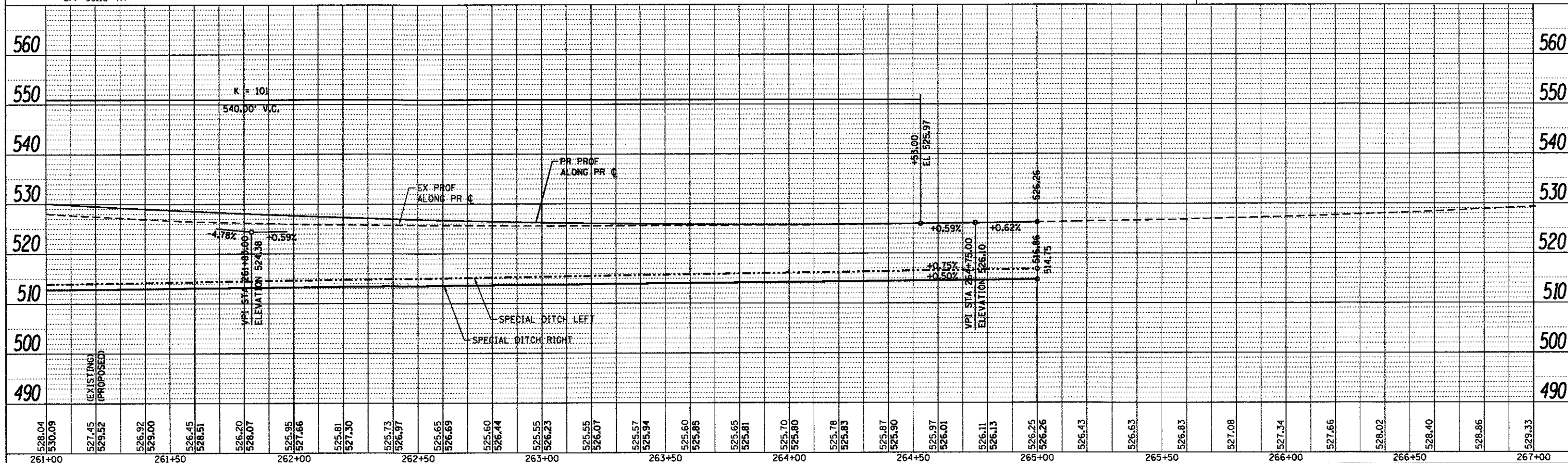
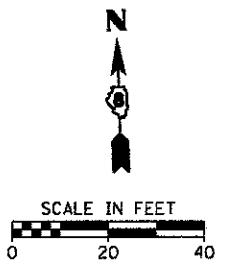
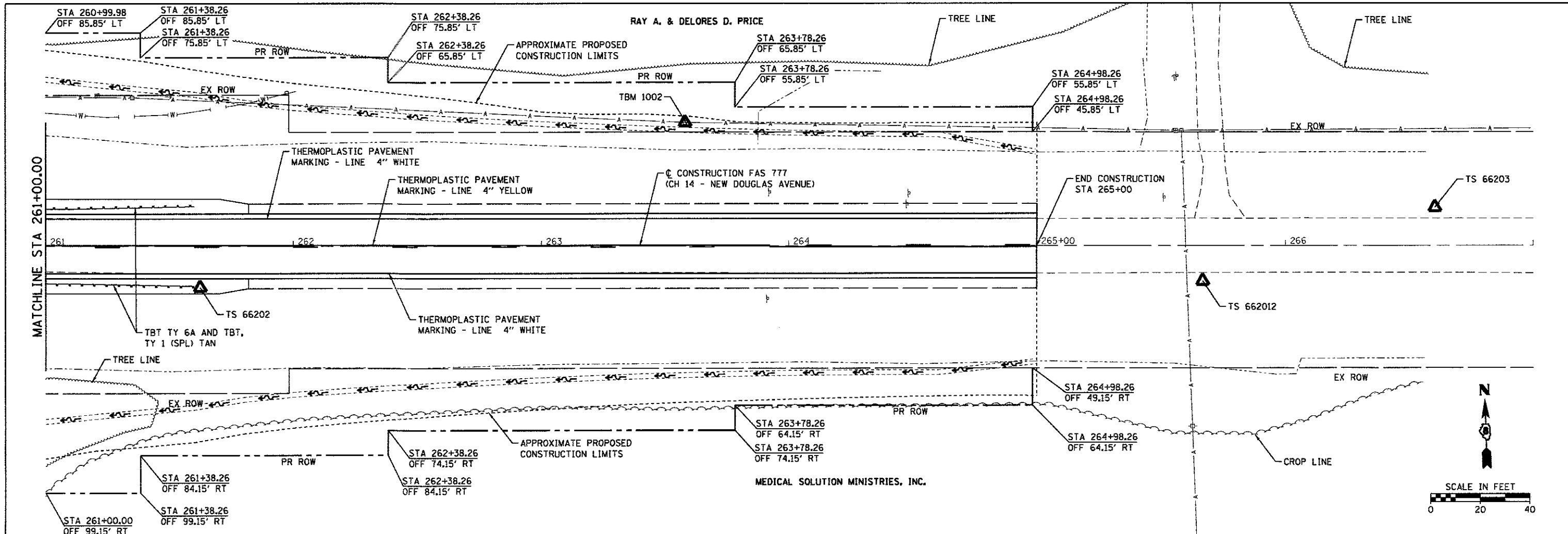
PLAN AND PROFILE

|                           |                |              |              |           |
|---------------------------|----------------|--------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY       | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND         | 42           | 13        |
| SN 003-3054               |                | CONTRACT NO. | 97648        |           |
| ILLINOIS FED. AID PROJECT |                |              |              |           |

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

|                    |      |
|--------------------|------|
| PLAN               | DATE |
| BY                 |      |
| REVIEWED           |      |
| APPROVED           |      |
| NO. OF WAY CHECKED |      |
| NO. OF FILE NAME   |      |

|                    |      |
|--------------------|------|
| PROFILE            | DATE |
| BY                 |      |
| REVIEWED           |      |
| APPROVED           |      |
| NO. OF WAY CHECKED |      |
| NO. OF FILE NAME   |      |

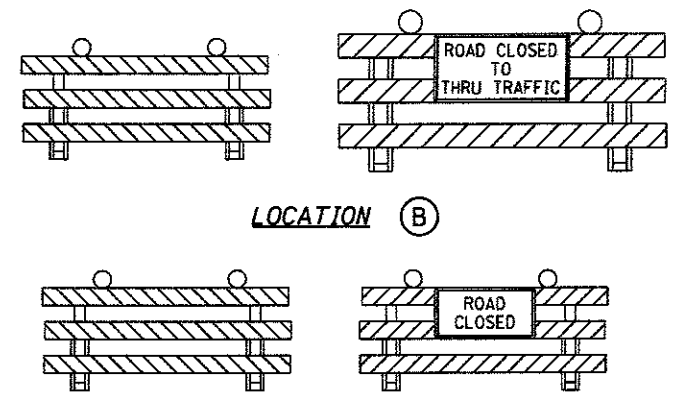
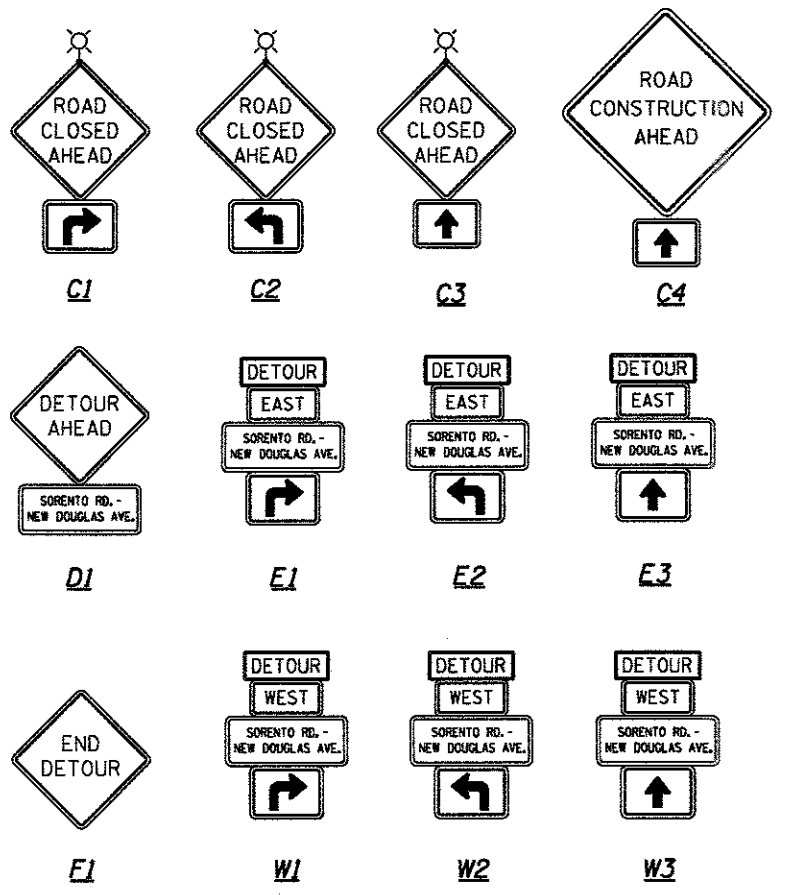


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  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |       |
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| 528.04 | 527.45 | 526.92 | 526.45 | 525.95 | 525.48 | 525.01 | 524.54 | 524.07 | 523.60 | 523.13 | 522.66 | 522.19 | 521.72 | 521.25 | 520.78 | 520.31 | 519.84 | 519.37 | 518.90 | 518.43 | 517.96 | 517.49 | 517.02 | 516.55 | 516.08 | 515.61 | 515.14 | 514.67 | 514.20 | 513.73 | 513.26 | 512.79 | 512.32 | 511.85 | 511.38 | 510.91 | 510.44 | 509.97 | 509.50 | 509.03 | 508.56 | 508.09 | 507.62 | 507.15 | 506.68 | 506.21 | 505.74 | 505.27 | 504.80 | 504.33 | 503.86 | 503.39 | 502.92 | 502.45 | 501.98 | 501.51 | 501.04 | 500.57 | 500.10 | 499.63 | 499.16 | 498.69 | 498.22 | 497.75 | 497.28 | 496.81 | 496.34 | 495.87 | 495.40 | 494.93 | 494.46 | 493.99 | 493.52 | 493.05 | 492.58 | 492.11 | 491.64 | 491.17 | 490.70 | 490.23 | 489.76 | 489.29 | 488.82 | 488.35 | 487.88 | 487.41 | 486.94 | 486.47 | 486.00 | 485.53 | 485.06 | 484.59 | 484.12 | 483.65 | 483.18 | 482.71 | 482.24 | 481.77 | 481.30 | 480.83 | 480.36 | 479.89 | 479.42 | 478.95 | 478.48 | 478.01 | 477.54 | 477.07 | 476.60 | 476.13 | 475.66 | 475.19 | 474.72 | 474.25 | 473.78 | 473.31 | 472.84 | 472.37 | 471.90 | 471.43 | 470.96 | 470.49 | 470.02 | 469.55 | 469.08 | 468.61 | 468.14 | 467.67 | 467.20 | 466.73 | 466.26 | 465.79 | 465.32 | 464.85 | 464.38 | 463.91 | 463.44 | 462.97 | 462.50 | 462.03 | 461.56 | 461.09 | 460.62 | 460.15 | 459.68 | 459.21 | 458.74 | 458.27 | 457.80 | 457.33 | 456.86 | 456.39 | 455.92 | 455.45 | 454.98 | 454.51 | 454.04 | 453.57 | 453.10 | 452.63 | 452.16 | 451.69 | 451.22 | 450.75 | 450.28 | 449.81 | 449.34 | 448.87 | 448.40 | 447.93 | 447.46 | 446.99 | 446.52 | 446.05 | 445.58 | 445.11 | 444.64 | 444.17 | 443.70 | 443.23 | 442.76 | 442.29 | 441.82 | 441.35 | 440.88 | 440.41 | 439.94 | 439.47 | 439.00 | 438.53 | 438.06 | 437.59 | 437.12 | 436.65 | 436.18 | 435.71 | 435.24 | 434.77 | 434.30 | 433.83 | 433.36 | 432.89 | 432.42 | 431.95 | 431.48 | 431.01 | 430.54 | 430.07 | 429.60 | 429.13 | 428.66 | 428.19 | 427.72 | 427.25 | 426.78 | 426.31 | 425.84 | 425.37 | 424.90 | 424.43 | 423.96 | 423.49 | 423.02 | 422.55 | 422.08 | 421.61 | 421.14 | 420.67 | 420.20 | 419.73 | 419.26 | 418.79 | 418.32 | 417.85 | 417.38 | 416.91 | 416.44 | 415.97 | 415.50 | 415.03 | 414.56 | 414.09 | 413.62 | 413.15 | 412.68 | 412.21 | 411.74 | 411.27 | 410.80 | 410.33 | 409.86 | 409.39 | 408.92 | 408.45 | 407.98 | 407.51 | 407.04 | 406.57 | 406.10 | 405.63 | 405.16 | 404.69 | 404.22 | 403.75 | 403.28 | 402.81 | 402.34 | 401.87 | 401.40 | 400.93 | 400.46 | 399.99 | 399.52 | 399.05 | 398.58 | 398.11 | 397.64 | 397.17 | 396.70 | 396.23 | 395.76 | 395.29 | 394.82 | 394.35 | 393.88 | 393.41 | 392.94 | 392.47 | 392.00 | 391.53 | 391.06 | 390.59 | 390.12 | 389.65 | 389.18 | 388.71 | 388.24 | 387.77 | 387.30 | 386.83 | 386.36 | 385.89 | 385.42 | 384.95 | 384.48 | 384.01 | 383.54 | 383.07 | 382.60 | 382.13 | 381.66 | 381.19 | 380.72 | 380.25 | 379.78 | 379.31 | 378.84 | 378.37 | 377.90 | 377.43 | 376.96 | 376.49 | 376.02 | 375.55 | 375.08 | 374.61 | 374.14 | 373.67 | 373.20 | 372.73 | 372.26 | 371.79 | 371.32 | 370.85 | 370.38 | 369.91 | 369.44 | 368.97 | 368.50 | 368.03 | 367.56 | 367.09 | 366.62 | 366.15 | 365.68 | 365.21 | 364.74 | 364.27 | 363.80 | 363.33 | 362.86 | 362.39 | 361.92 | 361.45 | 360.98 | 360.51 | 360.04 | 359.57 | 359.10 | 358.63 | 358.16 | 357.69 | 357.22 | 356.75 | 356.28 | 355.81 | 355.34 | 354.87 | 354.40 | 353.93 | 353.46 | 352.99 | 352.52 | 352.05 | 351.58 | 351.11 | 350.64 | 350.17 | 349.70 | 349.23 | 348.76 | 348.29 | 347.82 | 347.35 | 346.88 | 346.41 | 345.94 | 345.47 | 345.00 | 344.53 | 344.06 | 343.59 | 343.12 | 342.65 | 342.18 | 341.71 | 341.24 | 340.77 | 340.30 | 339.83 | 339.36 | 338.89 | 338.42 | 337.95 | 337.48 | 337.01 | 336.54 | 336.07 | 335.60 | 335.13 | 334.66 | 334.19 | 333.72 | 333.25 | 332.78 | 332.31 | 331.84 | 331.37 | 330.90 | 330.43 | 329.96 | 329.49 | 329.02 | 328.55 | 328.08 | 327.61 | 327.14 | 326.67 | 326.20 | 325.73 | 325.26 | 324.79 | 324.32 | 323.85 | 323.38 | 322.91 | 322.44 | 321.97 | 321.50 | 321.03 | 320.56 | 320.09 | 319.62 | 319.15 | 318.68 | 318.21 | 317.74 | 317.27 | 316.80 | 316.33 | 315.86 | 315.39 | 314.92 | 314.45 | 313.98 | 313.51 | 313.04 | 312.57 | 312.10 | 311.63 | 311.16 | 310.69 | 310.22 | 309.75 | 309.28 | 308.81 | 308.34 | 307.87 | 307.40 | 306.93 | 306.46 | 305.99 | 305.52 | 305.05 | 304.58 | 304.11 | 303.64 | 303.17 | 302.70 | 302.23 | 301.76 | 301.29 | 300.82 | 300.35 | 299.88 | 299.41 | 298.94 | 298.47 | 298.00 | 297.53 | 297.06 | 296.59 | 296.12 | 295.65 | 295.18 | 294.71 | 294.24 | 293.77 | 293.30 | 292.83 | 292.36 | 291.89 | 291.42 | 290.95 | 290.48 | 289.95 | 289.42 | 288.89 | 288.36 | 287.83 | 287.30 | 286.77 | 286.24 | 285.71 | 285.18 | 284.65 | 284.12 | 283.59 | 283.06 | 282.53 | 282.00 | 281.47 | 280.94 | 280.41 | 279.88 | 279.35 | 278.82 | 278.29 | 277.76 | 277.23 | 276.70 | 276.17 | 275.64 | 275.11 | 274.58 | 274.05 | 273.52 | 272.99 | 272.46 | 271.93 | 271.40 | 270.87 | 270.34 | 269.81 | 269.28 | 268.75 | 268.22 | 267.69 | 267.16 | 266.63 | 266.10 | 265.57 | 265.04 | 264.51 | 263.98 | 263.45 | 262.92 | 262.39 | 261.86 | 261.33 | 260.80 | 260.27 | 259.74 | 259.21 | 258.68 | 258.15 | 257.62 | 257.09 | 256.56 | 256.03 | 255.50 | 254.97 | 254.44 | 253.91 | 253.38 | 252.85 | 252.32 | 251.79 | 251.26 | 250.73 | 250.20 | 249.67 | 249.14 | 248.61 | 248.08 | 247.55 | 247.02 | 246.49 | 245.96 | 245.43 | 244.90 | 244.37 | 243.84 | 243.31 | 242.78 | 242.25 | 241.72 | 241.19 | 240.66 | 240.13 | 239.60 | 239.07 | 238.54 | 238.01 | 237.48 | 236.95 | 236.42 | 235.89 | 235.36 | 234.83 | 234.30 | 233.77 | 233.24 | 232.71 | 232.18 | 231.65 | 231.12 | 230.59 | 230.06 | 229.53 | 229.00 | 228.47 | 227.94 | 227.41 | 226.88 | 226.35 | 225.82 | 225.29 | 224.76 | 224.23 | 223.70 | 223.17 | 222.64 | 222.11 | 221.58 | 221.05 | 220.52 | 219.99 | 219.46 | 218.93 | 218.40 | 217.87 | 217.34 | 216.81 | 216.28 | 215.75 | 215.22 | 214.69 | 214.16 | 213.63 | 213.10 | 212.57 | 212.04 | 211.51 | 210.98 | 210.45 | 209.92 | 209.39 | 208.86 | 208.33 | 207.80 | 207.27 | 206.74 | 206.21 | 205.68 | 205.15 | 204.62 | 204.09 | 203.56 | 203.03 | 202.50 | 201.97 | 201.44 | 200.91 | 200.38 | 199.85 | 199.32 | 198.79 | 198.26 | 197.73 | 197.20 | 196.67 | 196.14 | 195.61 | 195.08 | 194.55 | 194.02 | 193.49 | 192.96 | 192.43 | 191.90 | 191.37 | 190.84 | 190.31 | 189.78 | 189.25 | 188.72 | 188.19 | 187.66 | 187.13 | 186.60 | 186.07 | 185.54 | 185.01 | 184.48 | 183.95 | 183.42 | 182.89 | 182.36 | 181.83 | 181.30 | 180.77 | 180.24 | 179.71 | 179.18 | 178.65 | 178.12 | 177.59 | 177.06 | 176.53 | 176.00 | 175.47 | 174.94 | 174.41 | 173.88 | 173.35 | 172.82 | 172.29 | 171.76 | 171.23 | 170.70 | 170.17 | 169.64 | 169.11 | 168.58 | 168.05 | 167.52 | 166.99 | 166.46 | 165.93 | 165.40 | 164.87 | 164.34 | 163.81 | 163.28 | 162.75 | 162.22 | 161.69 | 161.16 | 160.63 | 160.10 | 159.57 | 159.04 | 158.51 | 157.98 | 157.45 | 156.92 | 156.39 | 155.86 | 155.33 | 154.80 | 154.27 | 153.74 | 153.21 | 152.68 | 152.15 | 151.62 | 151.09 | 150.56 | 150.03 | 149.50 | 148.97 | 148.44 | 147.91 | 147.38 | 146.85 | 146.32 | 145.79 | 145.26 | 144.73 | 144.20 | 143.67 | 143.14 | 142.61 | 142.08 | 141.55 | 141.02 | 140.49 | 139.96 | 139.43 | 138.90 | 138.37 | 137.84 | 137.31 | 136.78 | 136.25 | 135.72 | 135.19 | 134.66 | 134.13 | 133.60 | 133.07 | 132.54 | 132.01 | 131.48 | 130.95 | 130.42 | 129.89 | 129.36 | 128.83 | 128.30 | 127.77 | 127.24 | 126.71 | 126.18 | 125.65 | 125.12 | 124.59 | 124.06 | 123.53 | 123.00 | 122.47 | 121.94 | 121.41 | 120.88 | 120.35 | 119.82 | 119.29 | 118.76 | 118.23 | 117.70 | 117.17 | 116.64 | 116.11 | 115.58 | 115.05 | 114.52 | 113.99 | 113.46 | 112.93 | 112.40 | 111.87 | 111.34 | 110.81 | 110.28 | 109.75 | 109.22 | 108.69 | 108.16 | 107.63 | 107.10 | 106.57 | 106.04 | 105.51 | 104.98 | 104.45 | 103.92 | 103.39 | 102.86 | 102.33 | 101.80 | 101.27 | 100.74 | 100.21 | 99.68 | 99.15 | 98.62 | 98.09 | 97.56 | 97.03 | 96.50 | 95.97 | 95.44 | 94.91 | 94.38 | 93.85 | 93.32 | 92.79 | 92.26 | 91.73 | 91.20 | 90.67 | 90.14 | 89.61 | 89.08 | 88.55 | 88.02 | 87.49 | 86.96 | 86.43 | 85.90 | 85.37 | 84.84 | 84.31 | 83.78 | 83.25 | 82.72 | 82.19 | 81.66 | 81.13 | 80.60 | 80.07 | 79.54 | 79.01 | 78.48 | 77.95 | 77.42 | 76.89 | 76.36 | 75.83 | 75.30 | 74.77 | 74.24 | 73.71 | 73.18 | 72.65 | 72.12 | 71.59 | 71.06 | 70.53 | 70.00 | 69.47 | 68.94 | 68.41 | 67.88 | 67.35 | 66.82 | 66.29 | 65.76 | 65.23 | 64.70 | 64.17 | 63.64 | 63.11 | 62.58 | 62.05 | 61.52 | 60.99 | 60.46 | 59.93 | 59.40 | 58.87 | 58.34 | 57.81 | 57.28 | 56.75 | 56.22 | 55.69 | 55.16 | 54.63 | 54.10 | 53.57 | 53.04 | 52.51 | 51.98 | 51.45 | 50.92 | 50.39 | 49.86 | 49.33 | 48.80 | 48.27 | 47.74 | 47.21 | 46.68 | 46.15 | 45.62 | 45.09 | 44.56 | 44.03 | 43.50 | 42.97 | 42.44 | 41.91 | 41.38 | 40.85 | 40.32 | 39.79 | 39.26 | 38.73 | 38.20 | 37.67 | 37.14 | 36.61 | 36.08 | 35.55 | 35.02 | 34.49 | 33.96 | 33.43 | 32.90 | 32.37 | 31.84 | 31.31 | 30.78 | 30.25 | 29.72 | 29.19 | 28.66 | 28.13 | 27.60 | 27.07 | 26.54 | 26.01 | 25.48 | 24.95 | 24.42 | 23.89 | 23.36 | 22.83 | 22.30 | 21.77 | 21.24 | 20.71 | 20.18 | 19.65 | 19.12 | 18.59 | 18.06 | 17.53 | 17.00 | 16.47 | 15.94 | 15.41 | 14.88 | 14.35 | 13.82 | 13.29 | 12.76 | 12.23 | 11.70 | 11.17 | 10.64 | 10.11 | 9.58 | 9.05 | 8.52 | 7.99 | 7.46 | 6.93 | 6.40 | 5.87 | 5.34 | 4.81 | 4.28 | 3.75 | 3.22 | 2.69 | 2.16 | 1.63 | 1.10 | 0.57 | 0.04 | -0.49 | -0.96 | -1.43 | -1.90 | -2.37 | -2.84 | -3.31 | -3.78 | -4.25 | -4.72 | -5.19 | -5.66 | -6.13 | -6.60 | -7.07 | -7.54 | -8.01 | -8.48 | -8.95 | -9.42 | -9.89 | -10.36 | -10.83 | -11.30 | -11.77 | -12.24 | -12.7 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----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DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN SURVEYED \_\_\_\_\_  
 ALIGNMENT CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 PLOT FILE NAME \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE SURVEYED \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED \_\_\_\_\_

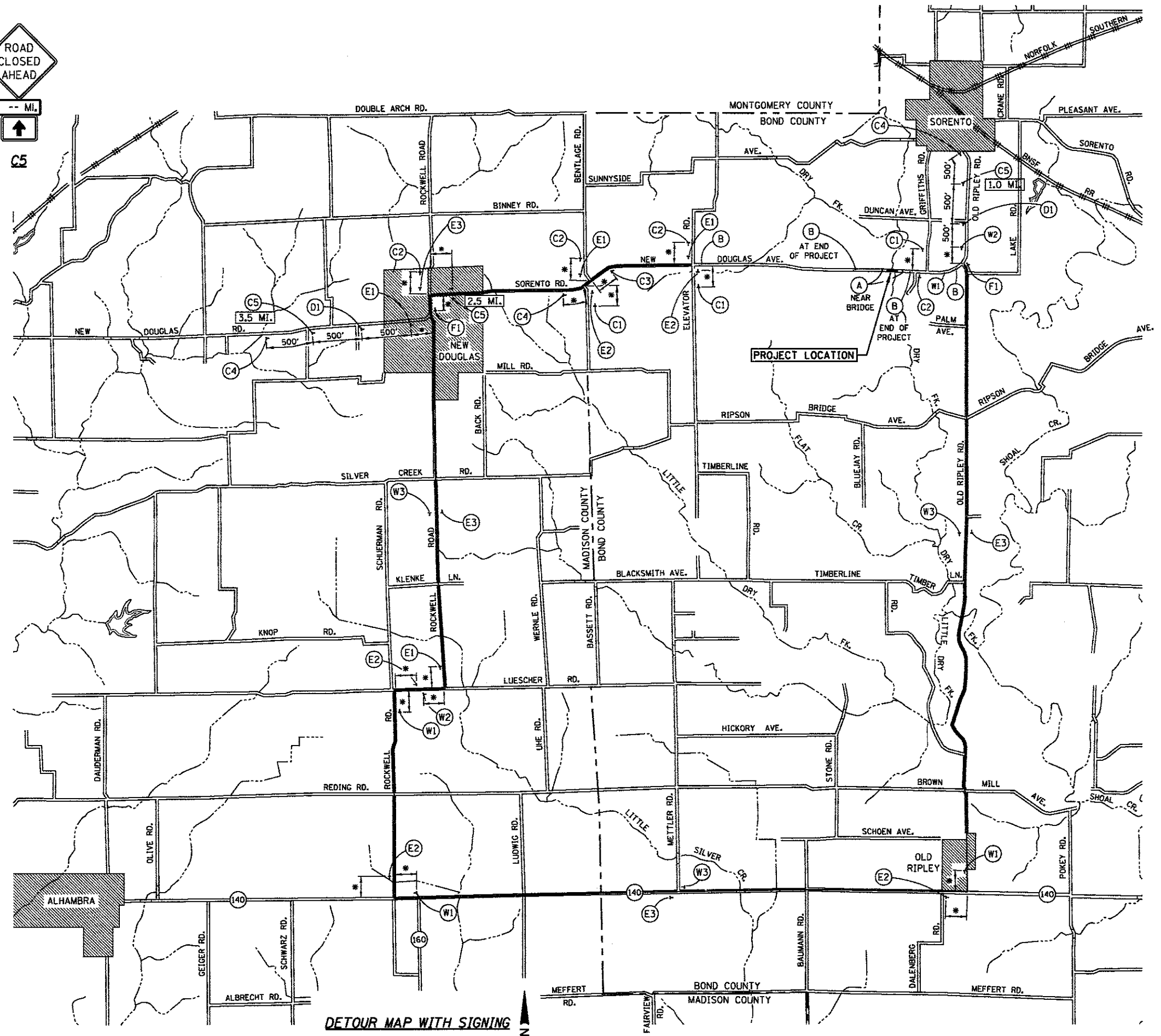


**LEGEND**

- T POST MOUNTED SIGN
- FLASHING LIGHT
- \* INDICATES 200' TYPICAL TO FIRST SIGN OR TO MEET FIELD CONDITIONS.

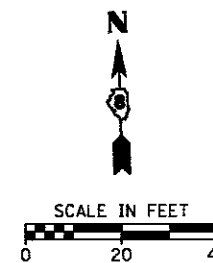
**NOTES:**

1. ENGINEER MAY MODIFY SIGN PLACEMENT TO MEET FIELD CONDITIONS.
2. ALL ADVANCED WARNING SIGNS SHALL BE 48" x 48" AND HAVE A BLACK LEGEND ON A FLUORESCENT ORANGE REFLECTORIZED BACKGROUND.
3. ALL ADVANCED WARNING SIGNS SHALL INCLUDE LOW INTENSITY FLASHING LIGHTS.
4. DETOUR SIGNING ASSEMBLY SHALL MAINTAIN THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN NO LESS THAN 5 FEET ABOVE THE EDGE OF PAVEMENT.
5. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE FOR STABILIZATION.
6. AT LOCATIONS WHERE TYPE III BARRICADES ARE STAGGERED THE "ROAD CLOSED TO THRU TRAFFIC" SIGN SHALL BE PLACED ON THE FRONT BARRICADE.
7. ALL ITEMS OF WORK INVOLVED WITH THE ROAD CLOSURE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
8. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER 72 HOURS PRIOR TO CLOSURE.



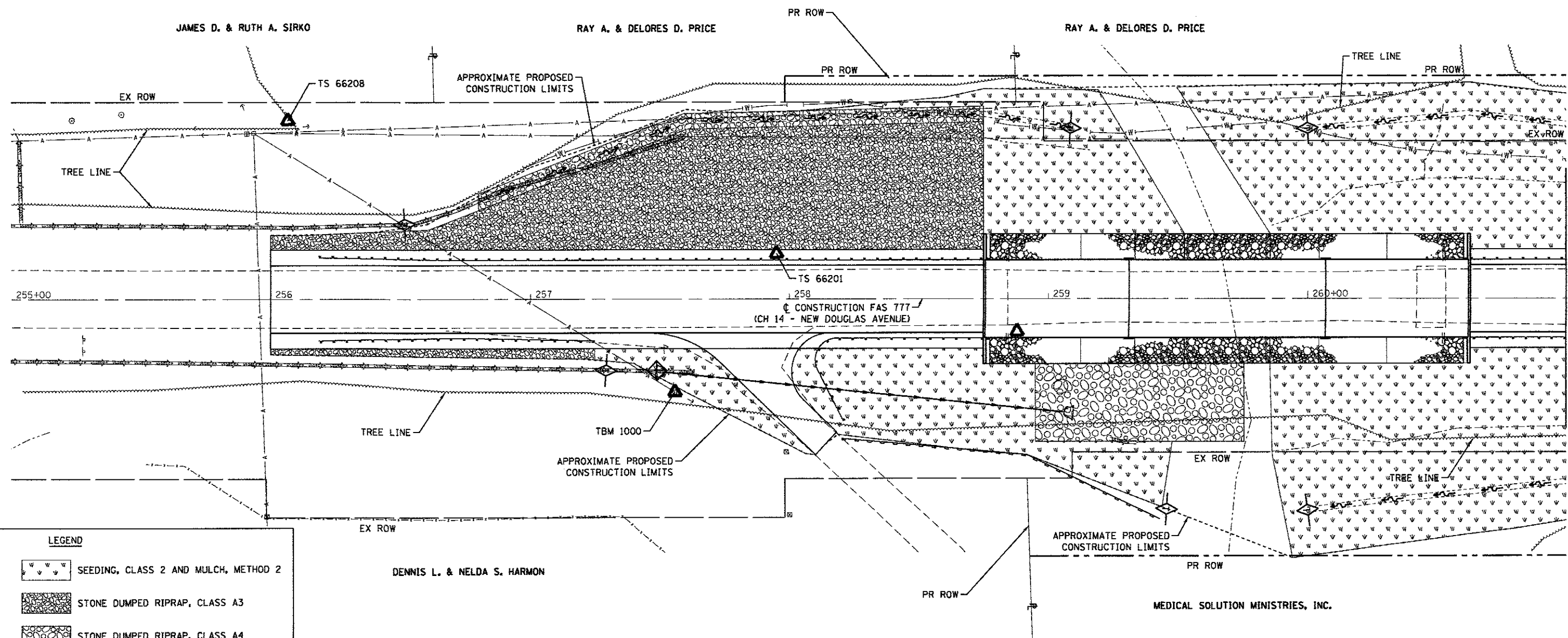
|  |                            |            |           |   |                   |                  |                |                         |              |              |  |
|--|----------------------------|------------|-----------|---|-------------------|------------------|----------------|-------------------------|--------------|--------------|--|
| FILE NAME =  | USER NAME = kschwartz_john | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>DETOUR MAP</b> | FAS              | SECTION        | COUNTY                  | TOTAL SHEETS | SHEET NO.    |  |
| HA\6628-BondCo-New Douglas\CADD-Sheets\6628-SHT-DeTour.dgn |                            | DRAWN -    | REVISED - |   |                   | 777              | 11-00086-00-BR | BOND                    | 42           | 15           |  |
| PLOT SCALE = 5000.0000 1/4 in.                             |                            | CHECKED -  | REVISED - |   |                   | SN 003-3054      |                | CONTRACT NO. 97648      |              |              |  |
| PLOT DATE = 3/16/2017                                      |                            | DATE -     | REVISED - |   |                   | SCALE: 1" = 500' |                | SHEET NO. 1 OF 1 SHEETS |              | STA. TO STA. |  |

HMG ENGINEERS, INC. LAKE RD., P.O. BOX 70 CARLYLE, IL 62231 (618) 594-3711 WWW.HMGENGINERS.COM



|           |  |
|-----------|--|
| DATE      |  |
| BY        |  |
| DESIGNED  |  |
| DRAWN     |  |
| CHECKED   |  |
| DATE      |  |
| REVISIONS |  |
| NO.       |  |

|           |  |
|-----------|--|
| DATE      |  |
| BY        |  |
| DESIGNED  |  |
| DRAWN     |  |
| CHECKED   |  |
| DATE      |  |
| REVISIONS |  |
| NO.       |  |



| LEGEND |                                      |
|--------|--------------------------------------|
|        | SEEDING, CLASS 2 AND MULCH, METHOD 2 |
|        | STONE DUMPED RIPRAP, CLASS A3        |
|        | STONE DUMPED RIPRAP, CLASS A4        |
|        | STONE DUMPED RIPRAP, CLASS A5        |
|        | PERIMETER EROSION BARRIER            |
|        | DITCH FLOW ARROW                     |
|        | TEMPORARY DITCH CHECK                |
|        | INLET AND PIPE PROTECTION            |

|  |                              |            |           |
|--|------------------------------|------------|-----------|
| FILE NAME =  | USER NAME = kschwieger-john  | DESIGNED - | REVISED - |
| HA6520_BandCo_New Douglas\CADD_Sheets\6628-SHT-eros.Ldgn |                              | DRAWN -    | REVISED - |
|  | PLOT SCALE = 20.0000' / 1" = | CHECKED -  | REVISED - |
|  | PLOT DATE = 3/16/2017        | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

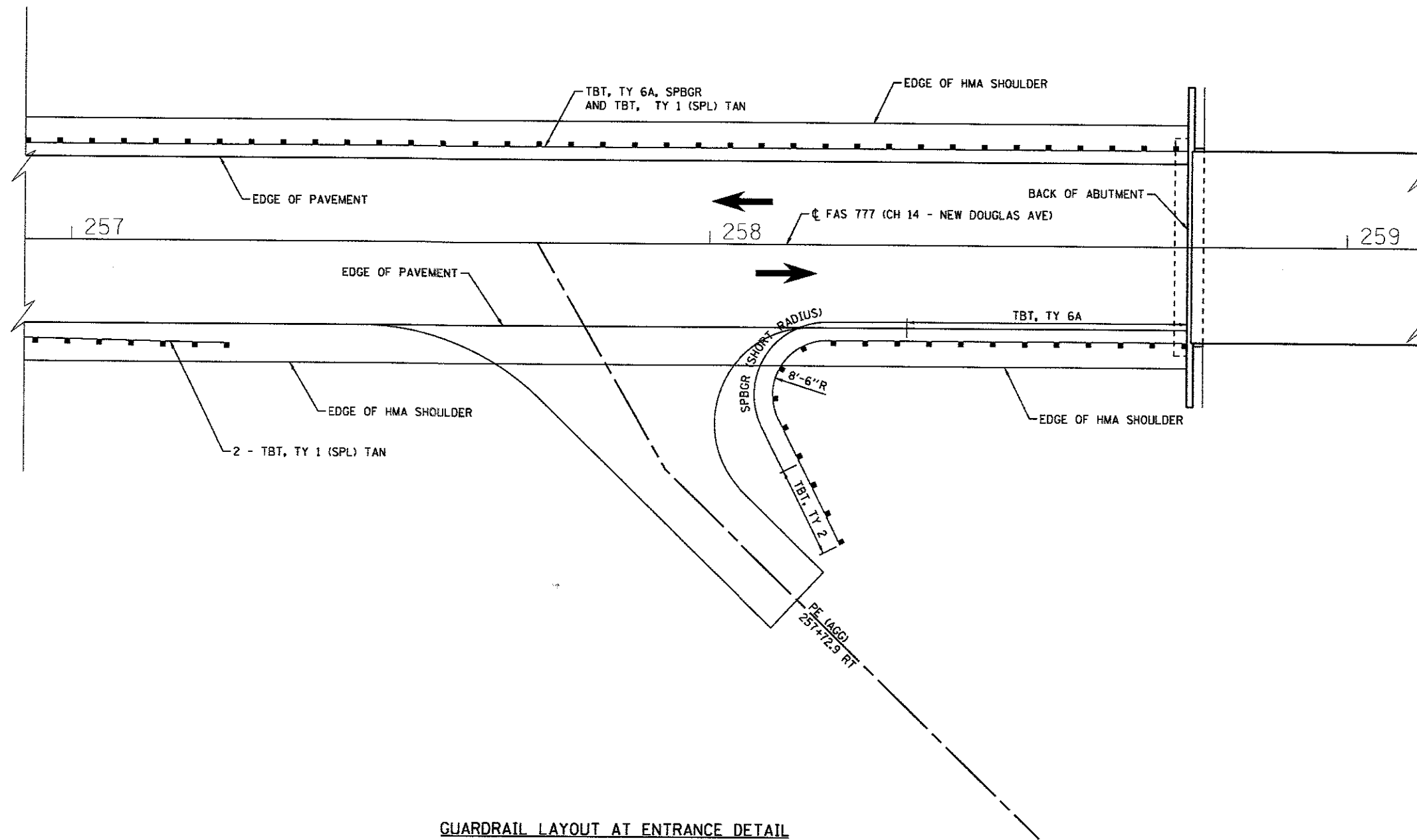
|                             |                |                    |              |           |
|-----------------------------|----------------|--------------------|--------------|-----------|
| FAS                         | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                         | 11-00086-00-BR | BOND               | 42           | 16        |
| SN 003-3054                 |                | CONTRACT NO. 97648 |              |           |
| [ILLINOIS] FED. AID PROJECT |                |                    |              |           |





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

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

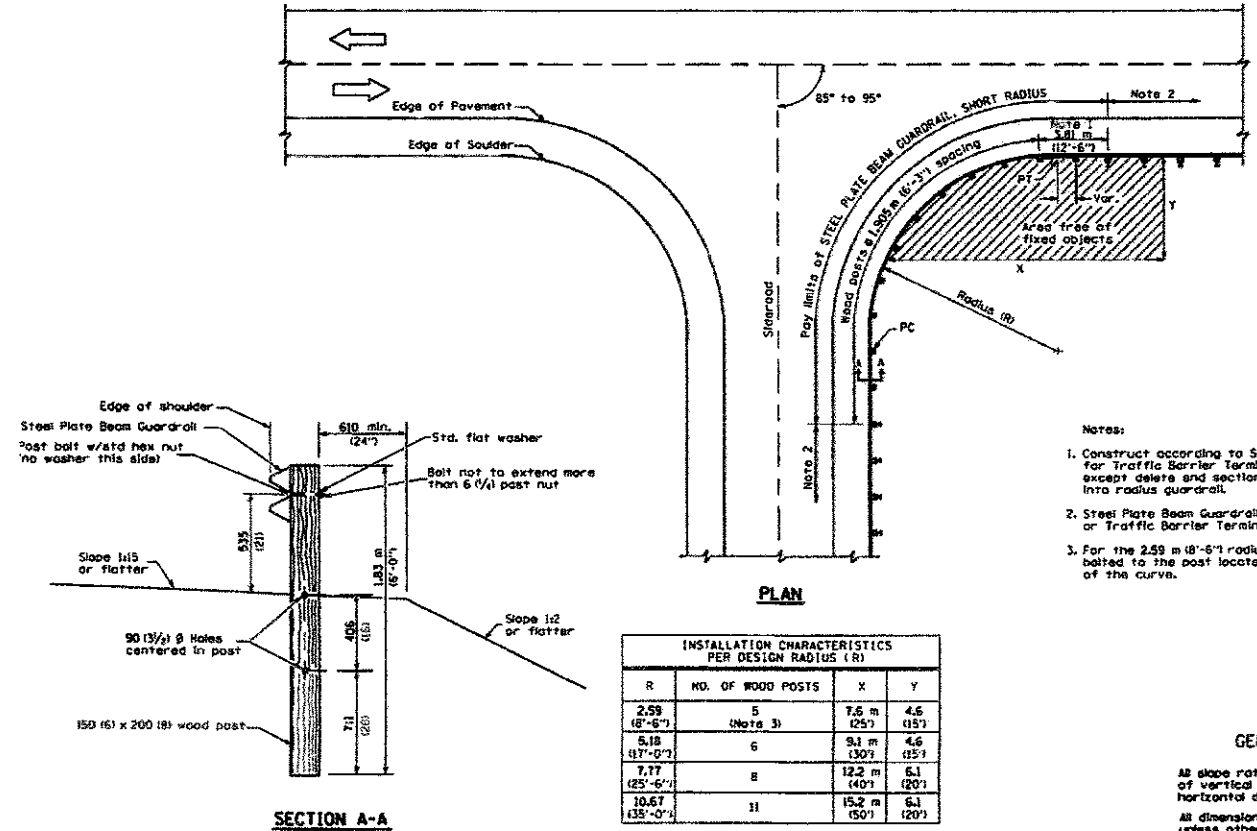


GUARDRAIL LAYOUT AT ENTRANCE DETAIL

|   |                              |            |           |   |                             |                         |                    |         |                           |         |        |              |           |
|---|------------------------------|------------|-----------|---|-----------------------------|-------------------------|--------------------|---------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = H:\6620_BondCo_New Douglas\CADD_Sheets\6620-SHT-Details.dgn | USER NAME = kschwior.john    | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>CONSTRUCTION DETAILS</b> |                         |                    |         | FAS                       | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|   | PLOT SCALE = 28.0000' / 1" = | DRAWN -    | REVISED - |   | 777                         | 11-00086-00-BR          | BOND               | 42      | 18                        |         |        |              |           |
|   | PLOT DATE = 3/16/2017        | CHECKED -  | REVISED - |   | SN 003-3054                 |                         | CONTRACT NO. 97648 |         |                           |         |        |              |           |
|   |                              | DATE -     | REVISED - |   | SCALE:                      | SHEET NO. 1 OF 3 SHEETS | STA.               | TO STA. | ILLINOIS FED. AID PROJECT |         |        |              |           |

|      |                   |      |
|------|-------------------|------|
| PLAN | REVISIONS         | DATE |
|      | PLOTTED           |      |
|      | ALIGNMENT CHECKED |      |
|      | BY FILE NAME      |      |
|      | NO.               |      |

|         |                |      |
|---------|----------------|------|
| PROFILE | REVISIONS      | DATE |
|         | PLOTTED        |      |
|         | GRADES CHECKED |      |
|         | BY FILE NAME   |      |
|         | NO.            |      |



- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete and section and splice into radius guardrail.
  2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
  3. For the 2.59 m (8'-6") radius, the roll is not bolted to the post located at the midpoint of the curve.

| INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R) |                   |              |           |
|--|-------------------|--------------|-----------|
| R  | NO. OF WOOD POSTS | X            | Y         |
| 2.59 (8'-6")                                       | 5 (Note 3)        | 7.6 m (25')  | 4.6 (15') |
| 5.18 (17'-0")                                      | 6                 | 9.1 m (30')  | 4.6 (15') |
| 7.77 (25'-6")                                      | 8                 | 12.2 m (40') | 6.1 (20') |
| 10.67 (35'-0")                                     | 11                | 15.2 m (50') | 6.1 (20') |

**GENERAL NOTES**

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

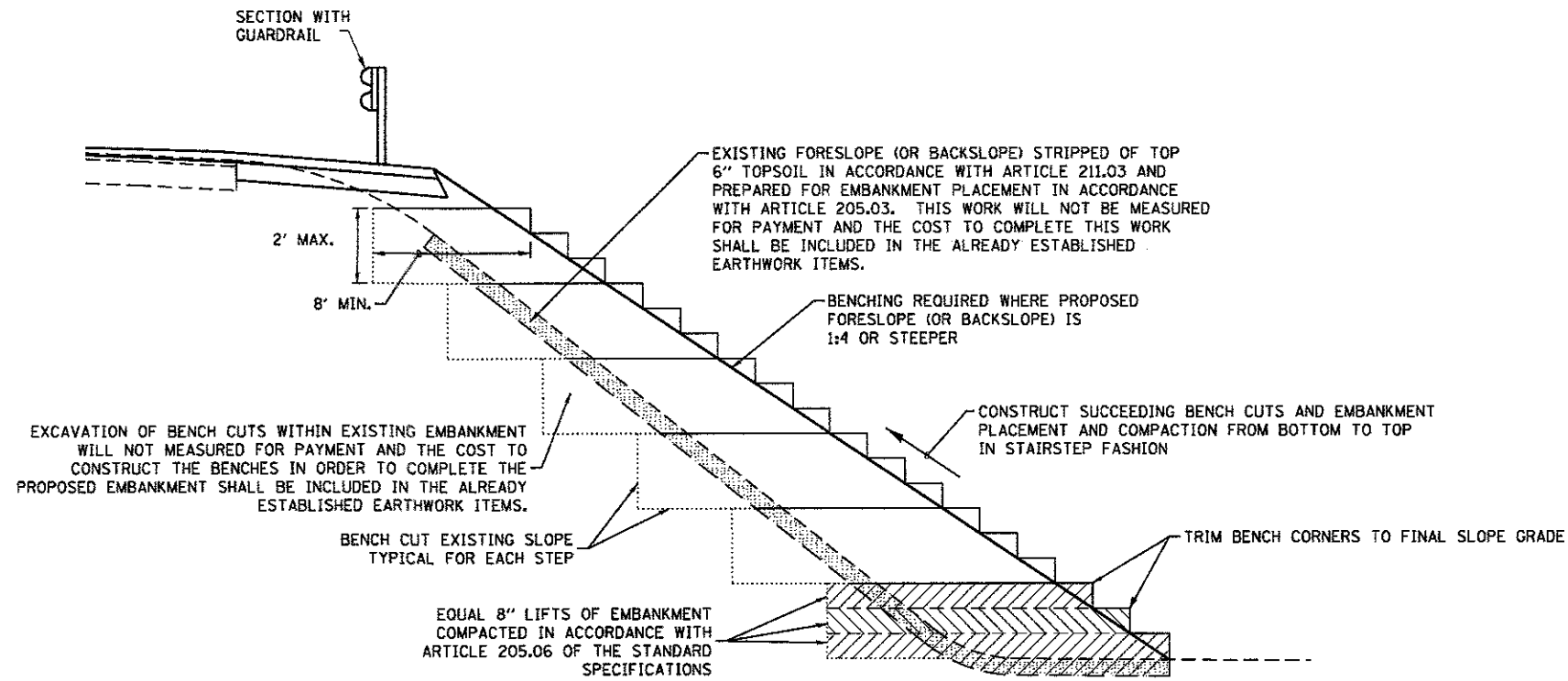
All dimensions are in millimeters (inches) unless otherwise shown.

**STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS**  
Figure 35-4L

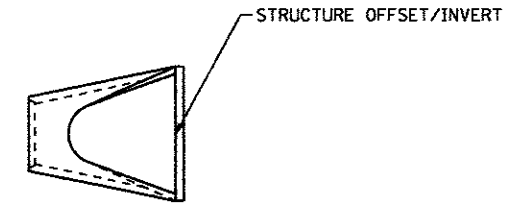
**STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) DETAILS**

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

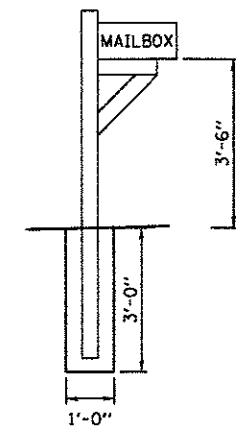
|         |                     |      |
|---------|---------------------|------|
| PROFILE | SURVEYED            | DATE |
|         | GRADES CHECKED      |      |
|         | BY                  |      |
|         | NO. NOTED           |      |
|         | STRUCTURE NOTATIONS |      |
|         | BY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



**TYPICAL BENCHING FOR EMBANKMENTS DETAIL**  
(NOT TO SCALE)



**METAL END SECTION DETAIL**



**TYPICAL MAILBOX DETAIL**  
(NOT TO SCALE)

|  |                           |            |           |
|--|---------------------------|------------|-----------|
| FILE NAME =  | USER NAME = kschwier_john | DESIGNED - | REVISED - |
| H:\6920_BondCo_New Douglas\CRADD_Sheets\6920-SHT-Details.dgn |                           | DRAWN -    | REVISED - |
| PLOT SCALE = 20.0000' / 1"                                   |                           | CHECKED -  | REVISED - |
| PLOT DATE = 3/16/2017  |                           | DATE -     | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 20        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |

**BENCHMARK:** TBM Chiseled "X" on Top of Existing Bridge Curb Sta 258+88.02, 12.6' Rt El 538.65

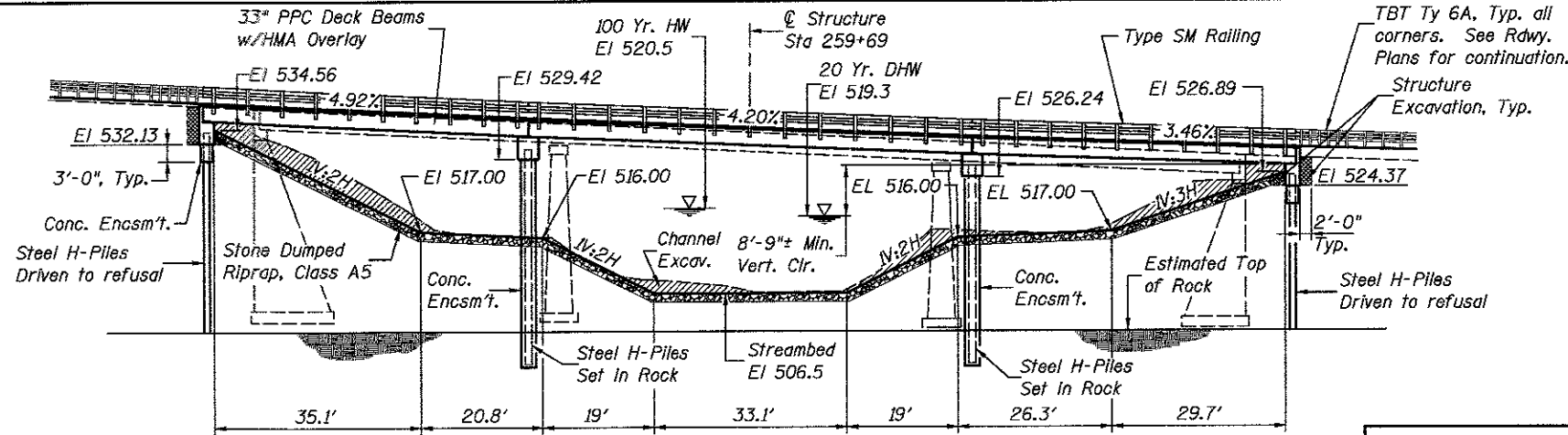
**EXISTING STRUCTURE** SN 003-3002

The existing structure, constructed in 1935, consists of a three span continuous steel stringer bridge with a cast-in-place concrete deck supported by spill thru concrete abutments with deep spread footings and solid concrete piers with tapered walls and spread footings, all without piles. The existing structure measures 169'-6" back to back of abutments and 27'-8" out to out of bridge deck.

The Contractor shall remove and dispose of the existing structure in accordance with Section 501 of the Standard Specifications.

The existing roadway will be closed to traffic during the construction period.

**SALVAGE:** No Salvage



| Event/Limit State | Design Scour Elevations (ft) |        |        |          | Item 113 |
|-------------------|------------------------------|--------|--------|----------|----------|
|                   | W. Abut.                     | Pier 1 | Pier 2 | E. Abut. |          |
| Q100              | ----                         | 507.50 | 506.32 | ----     | 5        |
| Q200              | ----                         | 506.86 | 506.23 | ----     |          |
| Design            | 532.13                       | 502.50 | 502.50 | 524.37   |          |
| Check             | 532.13                       | 502.50 | 502.50 | 524.37   |          |

**WATERWAY INFORMATION**

| Flood Event               | Freq. Yr. | Q CFS  | Opening Sq Ft |       | Nat. HWE | Head - Ft |       | Headwater El |       |
|---------------------------|-----------|--------|---------------|-------|----------|-----------|-------|--------------|-------|
|                           |           |        | Exist.        | Prop. |          | Exist.    | Prop. | Exist.       | Prop. |
|                           | 10        | 3,960  | 688           | 820   | 518.7    | 0.5       | 0.4   | 519.2        | 519.1 |
| <b>Design</b>             | 20        | 4,880  | 752           | 895   | 519.3    | 0.7       | 0.6   | 520.0        | 519.9 |
| <b>Base</b>               | 100       | 7,510  | 904           | 1,074 | 520.5    | 1.4       | 1.2   | 521.9        | 521.7 |
| <b>Scour Design Check</b> | 200       | 8,180  | 940           | 1,116 | 520.7    | 1.6       | 1.4   | 522.3        | 522.1 |
| <b>Max. Calc.</b>         | 500       | 10,200 | 1,054         | 1,246 | 521.4    | 2.4       | 2.1   | 523.8        | 523.5 |

**INDEX OF BRIDGE SHEETS**

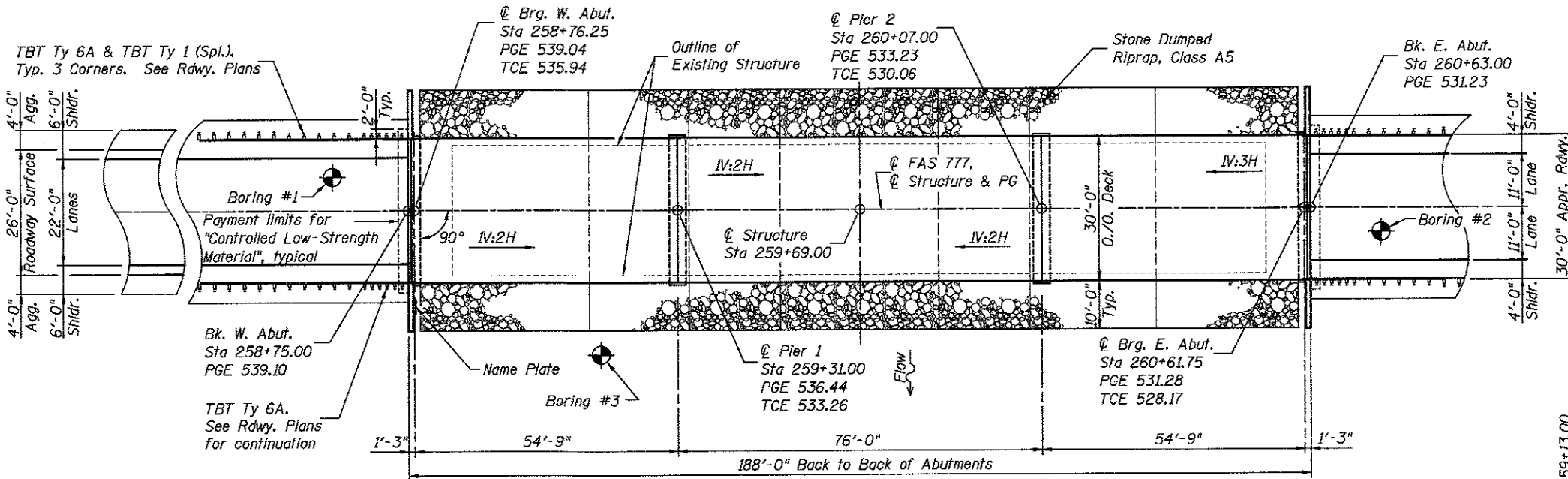
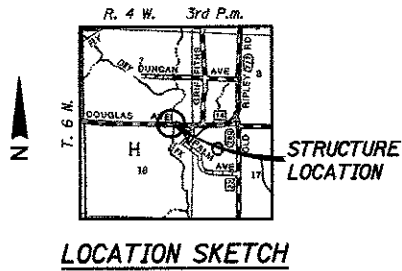
1. General Plan & Elevation
2. General Data
3. Superstructure
4. 33" x 36" P.P.C. Deck Beam
5. 33" x 36" P.P.C. Deck Beam Details
6. West Pile Bent Abutment
7. East Pile Bent Abutment
8. Pier 1 Details
9. Pier 2 Details
10. Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
11. HP Pile Details
12. Soil Boring Logs

**ELEVATION**

**Note:** Channel excavation shall be transitioned from the edge of the proposed deck to match the existing channel at the ROW line, as directed by the Engineer.

|      |  |
|------|--|
| DATE |  |
| BY   |  |
| DATE |  |
| BY   |  |
| DATE |  |
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| DATE |  |
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| DATE |  |
| BY   |  |

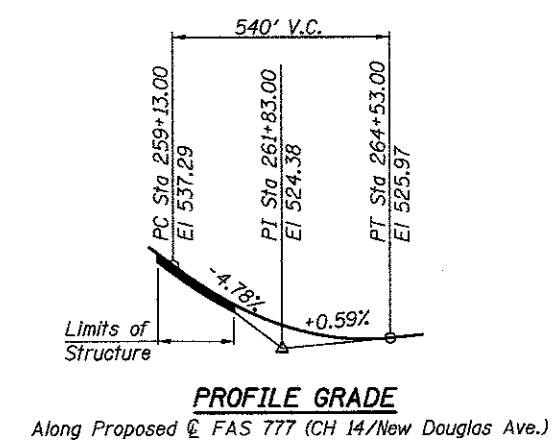


**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD Bridge Design Specifications w/2015 & 2016 Interims  
**LOADING HL-93**  
Allow 50 psf for future wearing surface

**DESIGN STRESSES**

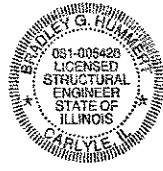
| PRECAST PRESTRESSED UNITS         | FIELD UNITS                     |
|-----------------------------------|---------------------------------|
| f'c = 6,000 psi                   | f'c = 3,500 psi                 |
| f'cl = 5,000 psi                  | fy = 60,000 psi (reinf.)        |
| f's = 270,000 psi (1/2" Strands)  | fy = 50,000 psi (M270 Grade 50) |
| f'sl = 201,960 psi (1/2" Strands) |                                 |

**SEISMIC DATA**  
Seismic Performance Zone (SPZ): 2  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>): = 0.220 g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>): = 0.489 g  
Soil Site Class = D



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO LRFD Bridge Design Specifications' including Seismic Design."

Bradley G. Hummert Date: 3/14/17  
Bradley G. Hummert  
Licensed Structural Engineer  
in Illinois No. 081-005428 Expires: November 30, 2018



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN & ELEVATION**

|  |             |            |     |           |  |  |             |                        |             |                 |              |
|--|-------------|------------|-----|-----------|--|--|-------------|------------------------|-------------|-----------------|--------------|
| FILE NAME =  | USER NAME = | DESIGNED - | BTB | REVISED - |  | SCALE: SHEET NO. 1 OF 12 SHEETS STA. TO STA. | FAS RTE 777 | SECTION 11-00086-00-BR | COUNTY BOND | TOTAL SHEETS 42 | SHEET NO. 21 |
| H:\6820_BondCo_New Douglas\CADD_Sheets\6820-SHT_Bridge_01_gpo1.dgn |             | DRAWN -    | KHL | REVISED - |  |  |             |                        |             |                 |              |
| PLOT SCALE = 1/8" = 1'-0"  |             | CHECKED -  | LDG | REVISED - |  |  |             |                        |             |                 |              |
| PLOT DATE = 3/14/2017  |             | DATE       |     | REVISED - |  |  |             |                        |             |                 |              |









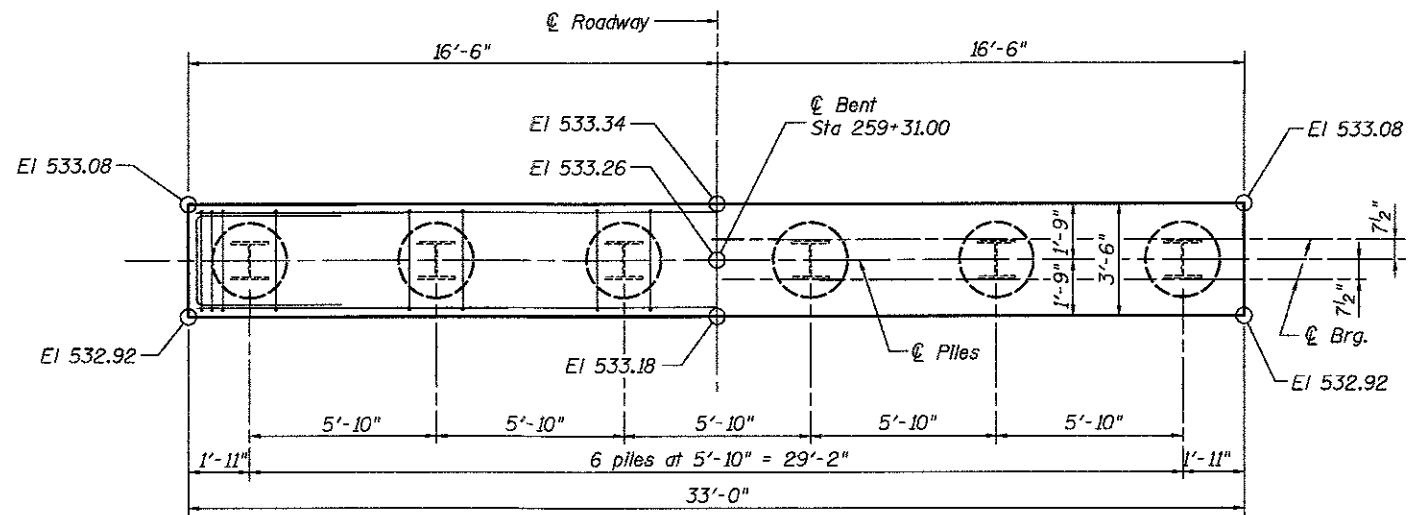






|      |            |    |      |
|------|------------|----|------|
| PLAN | SURVEYED   | BY | DATE |
|      | NOTED      |    |      |
|      | CHECKED    |    |      |
|      | ALIGNED    |    |      |
|      | RT. OF WAY |    |      |
|      | CHECKED    |    |      |
|      | NO.        |    |      |
|      | FILE NAME  |    |      |

|         |           |    |      |
|---------|-----------|----|------|
| PROFILE | SURVEYED  | BY | DATE |
|         | NOTED     |    |      |
|         | CHECKED   |    |      |
|         | BAR NOTED |    |      |
|         | STRUCTURE |    |      |
|         | NOTATIONS |    |      |
|         | CHRD      |    |      |



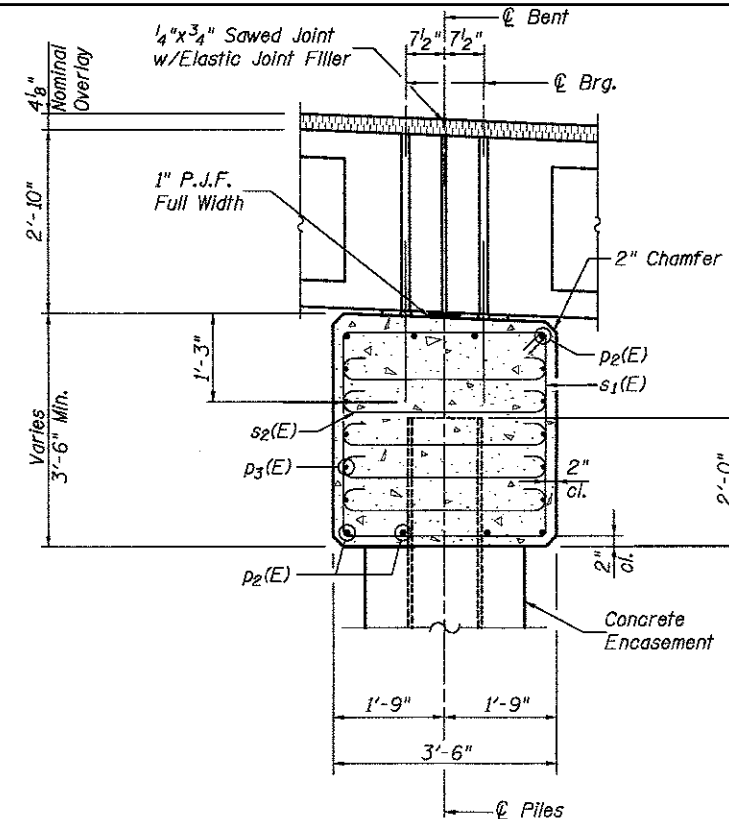
PLAN N

**PILE DATA**

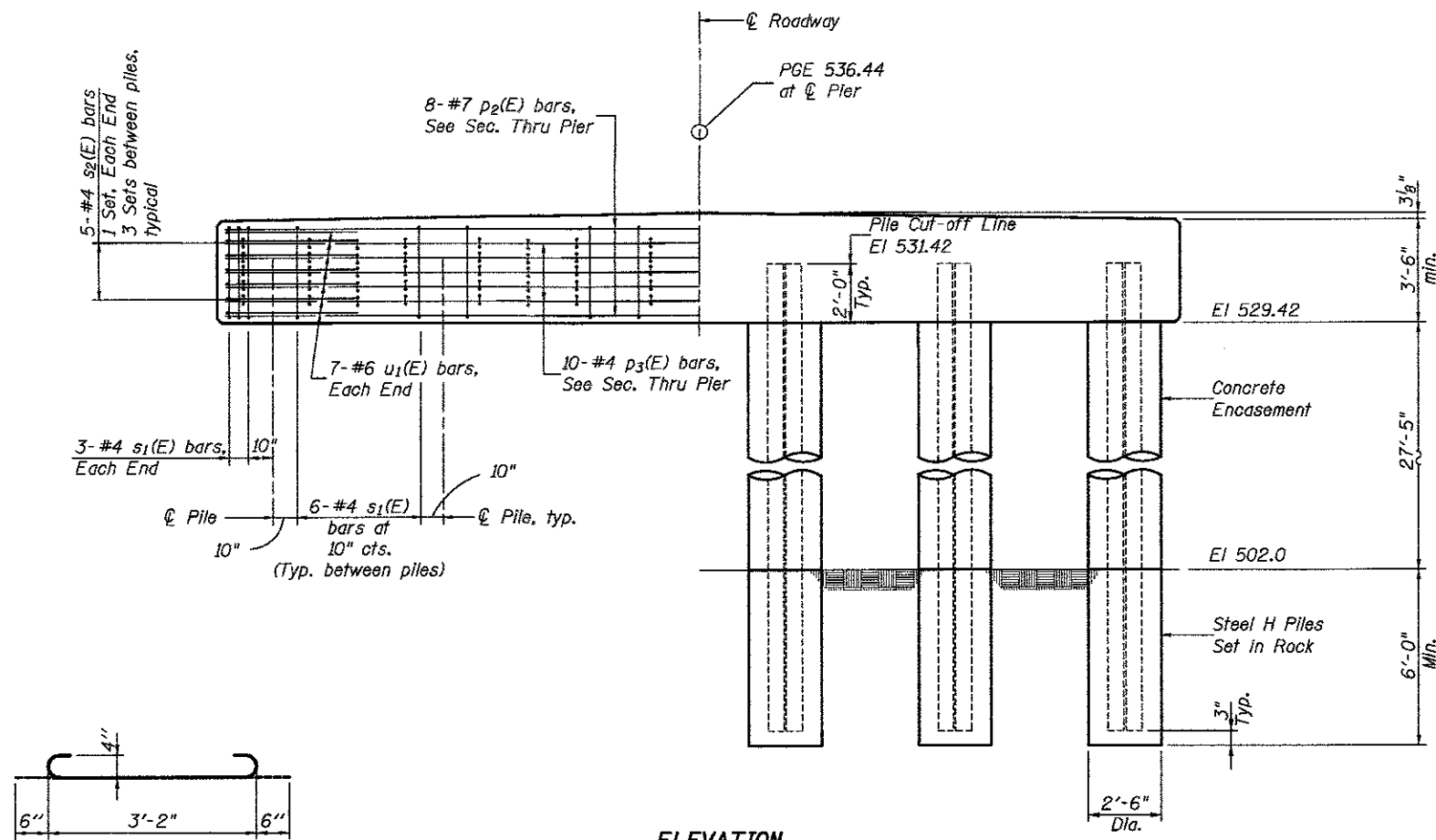
Type:  
Nominal Required Bearing:  
Factored Resistance Available:  
Est. Length:  
No. Production Piles:  
No. Test Piles:

**PIER 1**

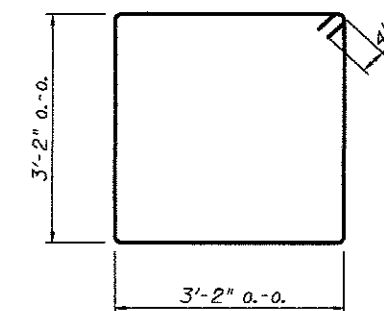
Steel HP 14x73  
Set in Rock  
588 k  
37 ft.  
6  
0



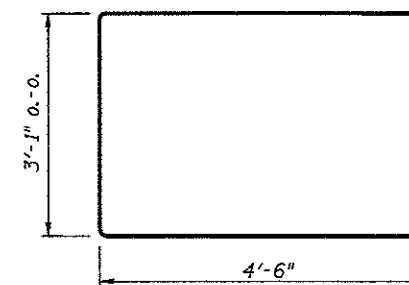
**SECTION THRU PIER**  
(at Right Angles)



**ELEVATION**



**BAR s1(E)**



**BAR u1(E)**

**BILL OF MATERIAL FOR PIER 1**

| Bar                              | No. | Size | Length | Shape |
|----------------------------------|-----|------|--------|-------|
| p <sub>2</sub> (E)               | 8   | #7   | 32'-8" | —     |
| p <sub>3</sub> (E)               | 10  | #4   | 32'-8" | —     |
| s <sub>1</sub> (E)               | 36  | #4   | 13'-5" | □     |
| s <sub>2</sub> (E)               | 85  | #4   | 4'-2"  | U     |
| u <sub>1</sub> (E)               | 14  | #6   | 12'-1" | U     |
| Concrete Structures              |     |      | Cu Yd  | 15.8  |
| Concrete Encasement              |     |      | Cu Yd  | 30.0  |
| Reinforcement Bars, Epoxy Coated |     |      | Pound  | 1,570 |
| Furnishing Steel Piles HP 14x73  |     |      | Foot   | 222   |
| Setting Piles in Rock            |     |      | Each   | 6     |

**Notes:**

For details of piles and concrete encasement see sheet 11 of 12.  
Space reinforcement in pile cap to miss dowel rods.  
If a portion of the concrete encasement is under water, reinforcement may be placed under water into forms.  
Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

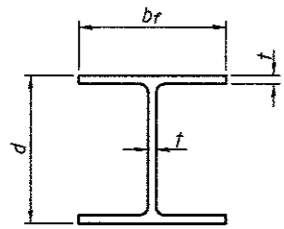
|   |             |            |           |   |  |                |             |         |                    |              |           |
|---|-------------|------------|-----------|---|--|----------------|-------------|---------|--------------------|--------------|-----------|
| FILE NAME =   | USER NAME = | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>PIER 1 DETAILS<br/>STRUCTURE NO. 003-3054</b> |                | FAS RTE     | SECTION | COUNTY             | TOTAL SHEETS | SHEET NO. |
| H:\6628_BondCo_New_Douglas\CAADD_Sheets\20-SHT_Bridges_88_pier1.dgn | USERDESCR.  | BIB        |           |   | 777  | 11-00086-00-BR | BOND        | 42      | 28                 |              |           |
| PLOT SCALE = 3/8" = 1'-0"   |             | DRAWN -    | REVISED - |   | SCALE: SHEET NO. 8 OF 12 SHEETS STA. TO STA.     |                | SN 003-3054 |         | CONTRACT NO. 97648 |              |           |
| PLOT DATE = 3/16/2017   |             | CHECKED -  | REVISED - |   | ILLINOIS FED. AID PROJECT                        |                |             |         |                    |              |           |





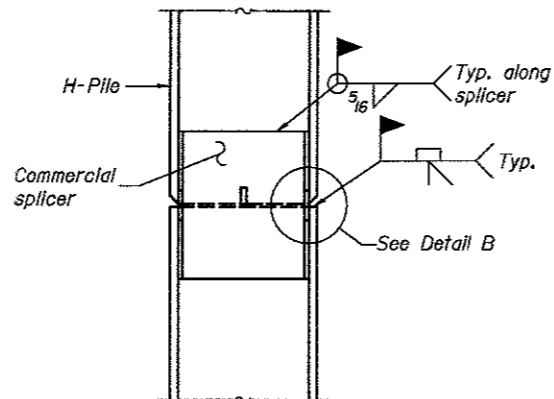
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|-------------|--|
| DATE        |  |
| BY          |  |
| REVISIONS   |  |
| NO.         |  |
| DESCRIPTION |  |
| DATE        |  |
| BY          |  |
| REVISIONS   |  |
| NO.         |  |
| DESCRIPTION |  |
| DATE        |  |
| BY          |  |
| REVISIONS   |  |
| NO.         |  |
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| DATE        |  |
| BY          |  |
| REVISIONS   |  |
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| DESCRIPTION |  |
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| REVISIONS   |  |
| NO.         |  |
| DESCRIPTION |  |
| DATE        |  |
| BY          |  |
| REVISIONS   |  |
| NO.         |  |
| DESCRIPTION |  |

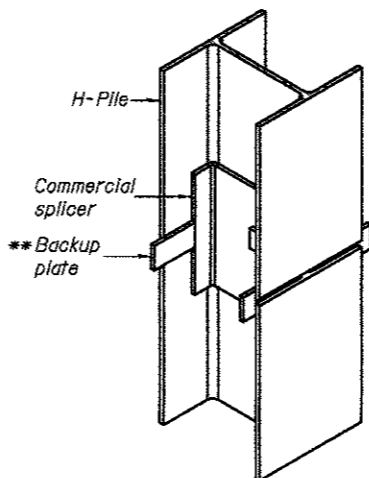


**STEEL PILE TABLE**

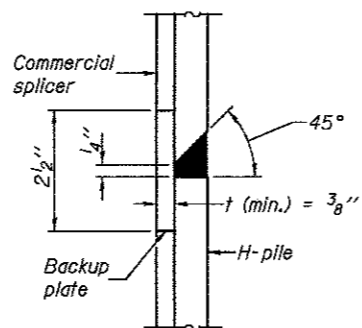
| Designation | Depth d | Flange width br | Web and Flange thickness t | Encasement diameter A |
|-------------|---------|-----------------|----------------------------|-----------------------|
| HP 14x117   | 14 1/4" | 14 7/8"         | 13/16"                     | 30"                   |
| x102        | 14"     | 14 3/4"         | 1/16"                      | 30"                   |
| x89         | 13 7/8" | 14 3/4"         | 5/8"                       | 30"                   |
| x73         | 13 5/8" | 14 5/8"         | 1/2"                       | 30"                   |
| HP 12x84    | 12 1/4" | 12 1/4"         | 1/16"                      | 24"                   |
| x74         | 12 1/8" | 12 1/4"         | 5/8"                       | 24"                   |
| x63         | 12"     | 12 1/8"         | 1/2"                       | 24"                   |
| x53         | 11 3/4" | 12"             | 7/16"                      | 24"                   |
| HP 10x57    | 10"     | 10 1/4"         | 9/16"                      | 24"                   |
| x42         | 9 3/4"  | 10 1/8"         | 7/16"                      | 24"                   |
| HP 8x36     | 8"      | 8 1/8"          | 7/16"                      | 18"                   |



**ELEVATION**

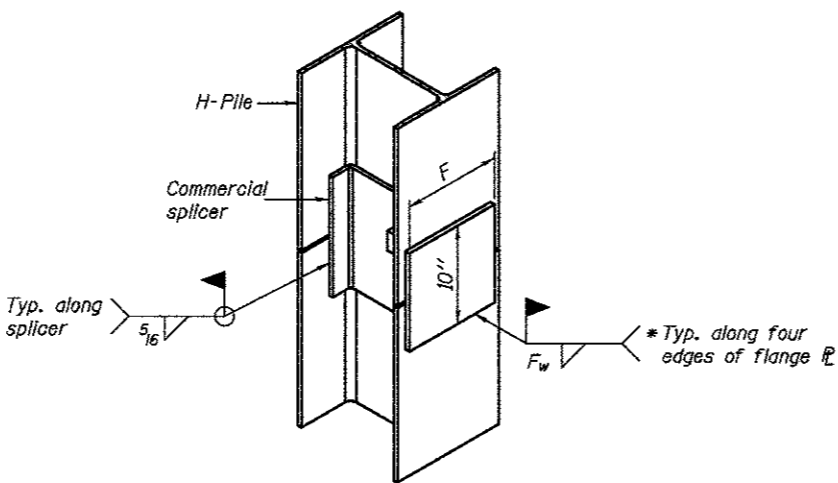


**ISOMETRIC VIEW**



**DETAIL "B"**

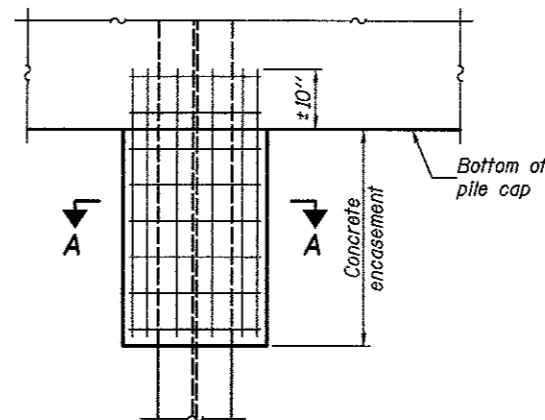
**WELDED COMMERCIAL SPLICE**



**ISOMETRIC VIEW**

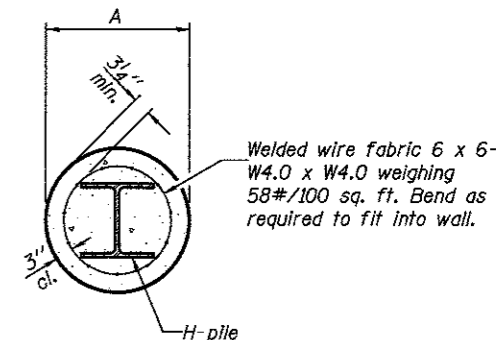
**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



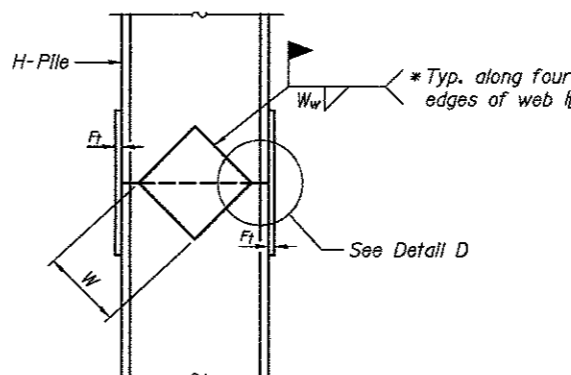
**ELEVATION**

**PILE ENCASEMENT**

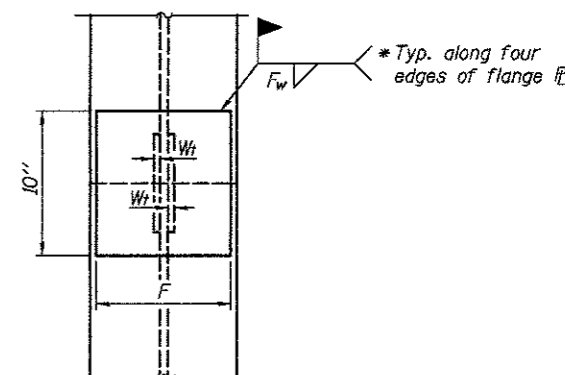


**SECTION A-A**

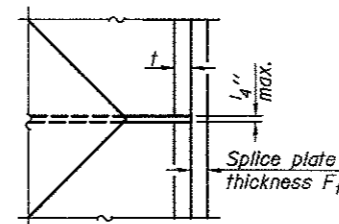
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



**END VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

| Designation | F       | Ft   | Fw    | W      | Wt     | Ww   |
|-------------|---------|------|-------|--------|--------|------|
| HP 14x117   | 12 1/2" | 1"   | 7/8"  | 7 3/4" | 5 9/8" | 1/2" |
| x102        | 12 1/2" | 7/8" | 3/4"  | 7 3/4" | 5 9/8" | 1/2" |
| x89         | 12 1/2" | 3/4" | 1/16" | 7 3/4" | 5 9/8" | 1/2" |
| x73         | 12 1/2" | 5/8" | 9/16" | 7 3/4" | 5 9/8" | 1/2" |
| HP 12x84    | 10"     | 7/8" | 1/16" | 6 1/2" | 5 9/8" | 1/2" |
| x74         | 10"     | 7/8" | 1/16" | 6 1/2" | 5 9/8" | 1/2" |
| x63         | 10"     | 5/8" | 1/2"  | 6 1/2" | 1/2"   | 3/8" |
| x53         | 10"     | 5/8" | 1/2"  | 6 1/2" | 1/2"   | 3/8" |
| HP 10x57    | 8"      | 3/4" | 9/16" | 5 1/4" | 1/2"   | 3/8" |
| x42         | 8"      | 5/8" | 9/16" | 5 1/4" | 1/2"   | 3/8" |
| HP 8x36     | 7"      | 5/8" | 7/16" | 4 1/4" | 1/2"   | 3/8" |

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP

1-27-12

|   |                       |                |           |   |   |             |                           |                    |              |                           |  |
|---|-----------------------|----------------|-----------|---|---|-------------|---------------------------|--------------------|--------------|---------------------------|--|
| FILE NAME = H:\6628_BondCo_New Daugler\CADD_Sheets\6628-SHT_Bridge_IL_piles.dgn | USER NAME = USERDESCR | DESIGNED - SIB | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>HP PILE DETAILS<br/>STRUCTURE NO. 003-3054</b> | FAS RTE     | SECTION                   | COUNTY             | TOTAL SHEETS | SHEET NO.                 |  |
| PLOT SCALE = 1:80000  | CHECKED - LOG         | REVISED -      | REVISED - |   |   | 777         | 11-00086-00-BR            | BOND               | 42           | 31                        |  |
| PLOT DATE = 3/16/2017   | DATE -                | REVISED -      | REVISED - |   |   | SN 003-3054 |                           | CONTRACT NO. 97648 |              | ILLINOIS FED. AID PROJECT |  |
|   |                       |                |           |   |   | SCALE:      | SHEET NO. 11 OF 12 SHEETS | STA.               | TO STA.      |                           |  |

HMC NO. 6620.2

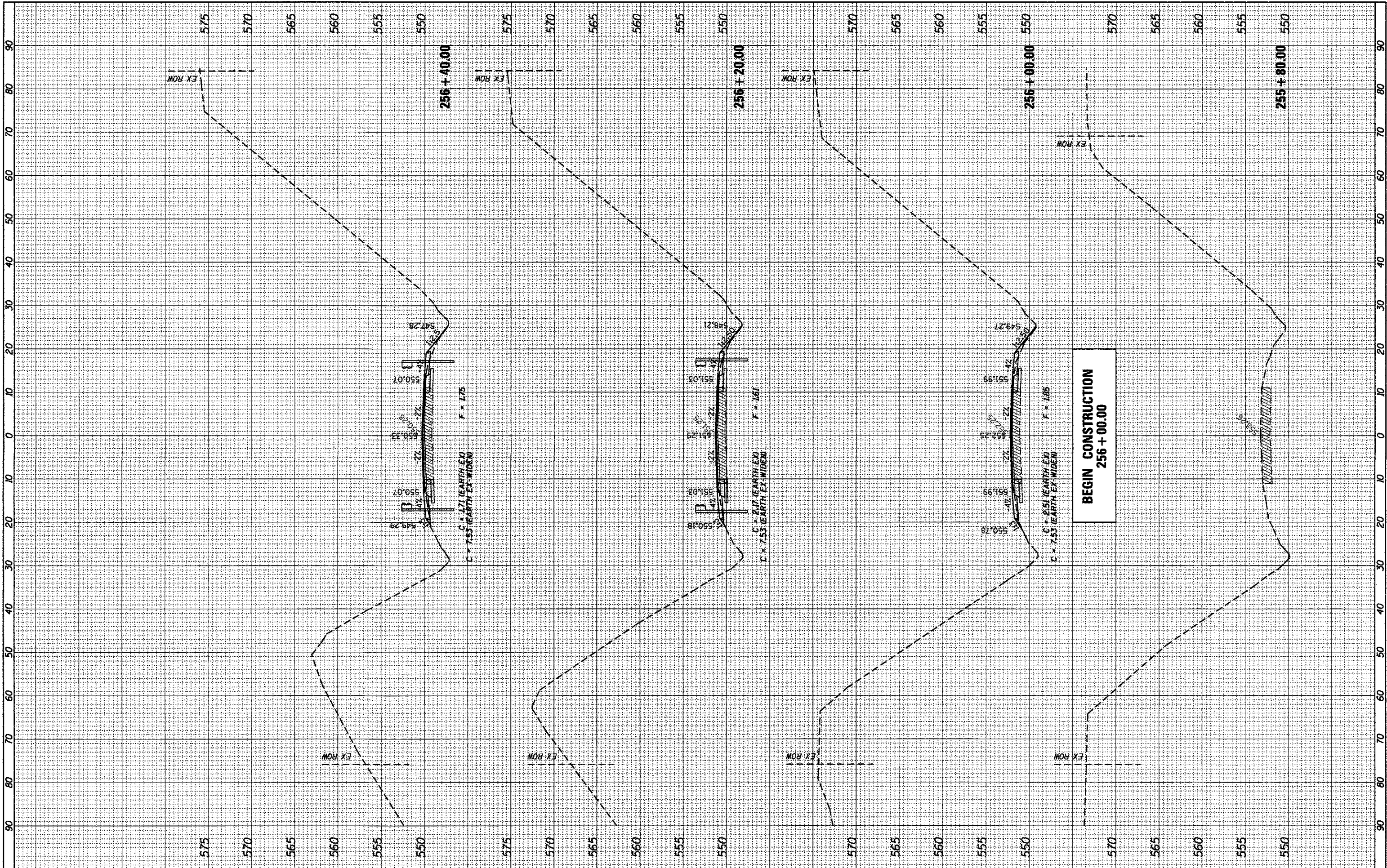






|               |      |
|---------------|------|
| FINAL SURVEY  | DATE |
| SURVEYED      | BY   |
| PLOTTED       |      |
| NOTE BOOK     |      |
| AREAS CHECKED |      |
| NO.           |      |

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



FILE NAME = H:\6628.BondCo.New Douglas\CA00.Sheets\6628-SHT-xssht.dgn  
 USER NAME = kschwaer.john  
 PLOT SCALE = 10.0000' / 1" / in.  
 PLOT DATE = 3/16/2017

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 3 OF 10 SHEETS STA. 255+80.00 TO STA. 256+40.00

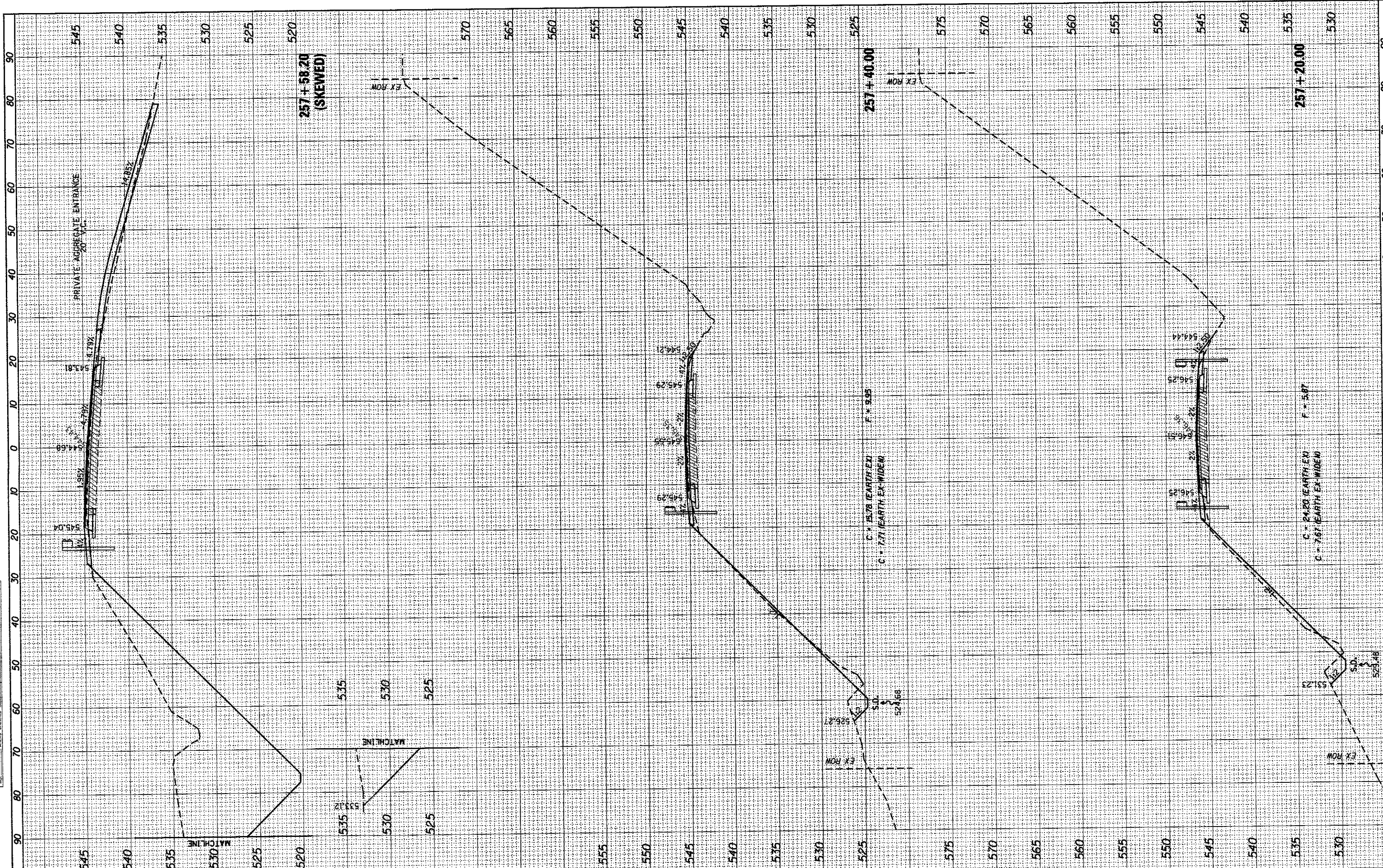
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|-------------|----------------|--------------------|--------------|-----------|
| FAS         | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777         | 11-00086-00-BR | BOND               | 42           | 33        |
| SN 003-3054 |                | CONTRACT NO. 97648 |              |           |





|      |    |
|------|----|
| DATE | BY |
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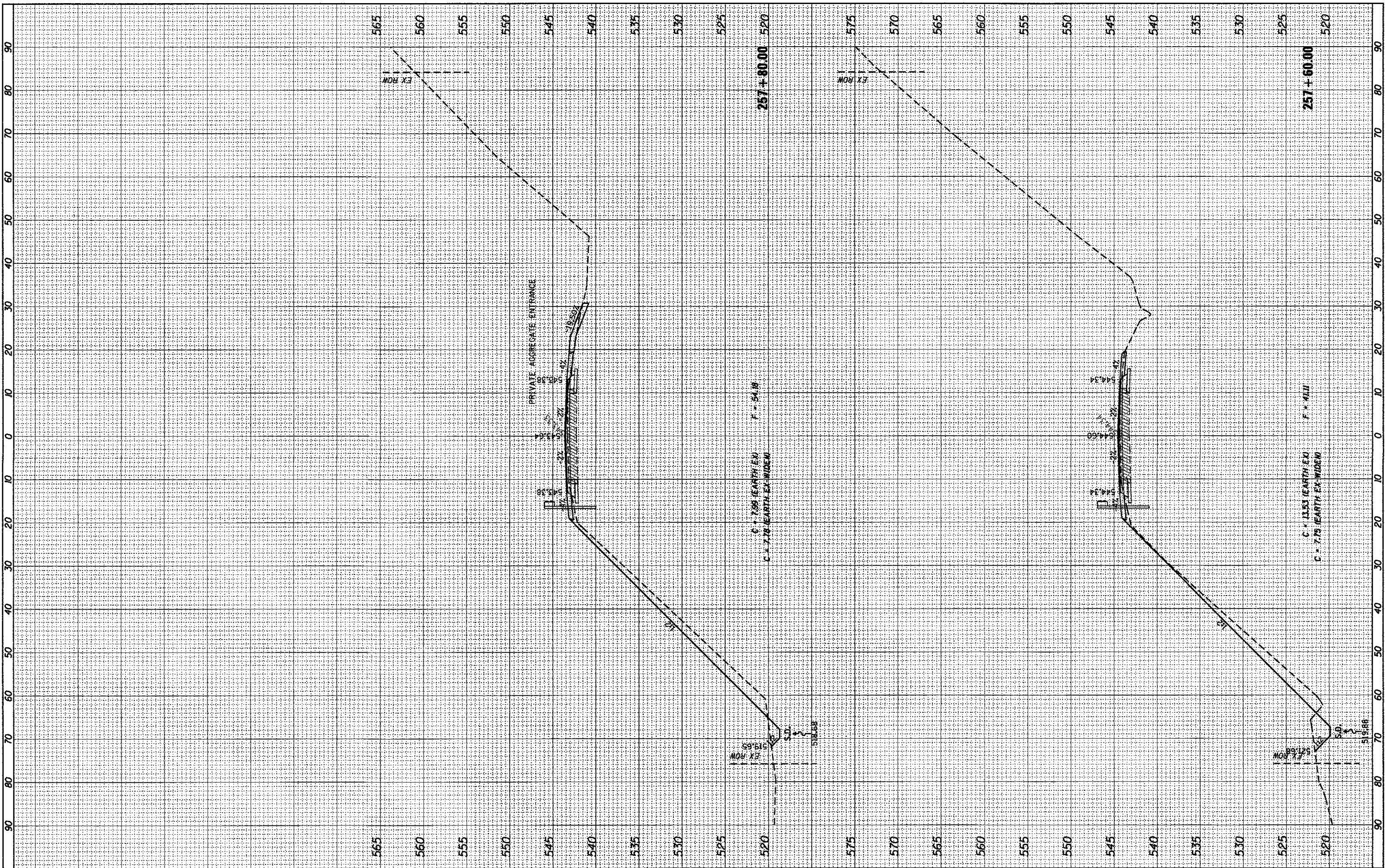
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| DATE | BY |
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|   |                        |            |                           |  |   |         |                        |                    |                 |              |
|---|------------------------|------------|---------------------------|--|---|---------|------------------------|--------------------|-----------------|--------------|
| FILE NAME = H:\6628_BondCo_New Douglas\CADD_Sheets\6628-S1                                      | USER NAME = kachwajohn | DESIGNED - | REVISED -                 | <p align="center"><b>STATE OF ILLINOIS</b></p> <p align="center"><b>DEPARTMENT OF TRANSPORTATION</b></p> | <p align="center"><b>CROSS SECTIONS</b></p> <p>SCALE: SHEET 3 OF 10 SHEETS STA. 257+20.00 TO STA. 257+58.20</p> | FAS 777 | SECTION 11-00086-00-BR | COUNTY SN 003-3054 | TOTAL SHEETS 42 | SHEET NO. 35 |
| PLOT SCALE = 1/8" = 10'   | CHECKED -              | REVISED -  | ILLINOIS FED. AID PROJECT |  |   |         |                        |                    |                 |              |
| PLOT DATE = 3/16/2017   | DATE -                 | REVISED -  | CONTRACT NO. 97648        |  |   |         |                        |                    |                 |              |
| HMG ENGINEERS, INC. LAKE RD., P.O. BOX 70 CARLYLE, IL 62231 (618) 594-3711 WWW.HMGENGINEERS.COM |                        |            |                           |  |   |         |                        |                    |                 |              |

FINAL SURVEY  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

ORIGINAL SURVEY  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



FILE NAME = H:\6628\_BandCo\_New Douglas\CAAD\_Sheets\6628-SHT-ssht.dgn  
 USER NAME = ksahuser.john  
 PLOT SCALE = 10.0000' / 1" = 1000  
 PLOT DATE = 3/16/2017

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

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

**CROSS SECTIONS**

SCALE: SHEET 4 OF 10 SHEETS STA. 257+60.00 TO STA. 257+80.00

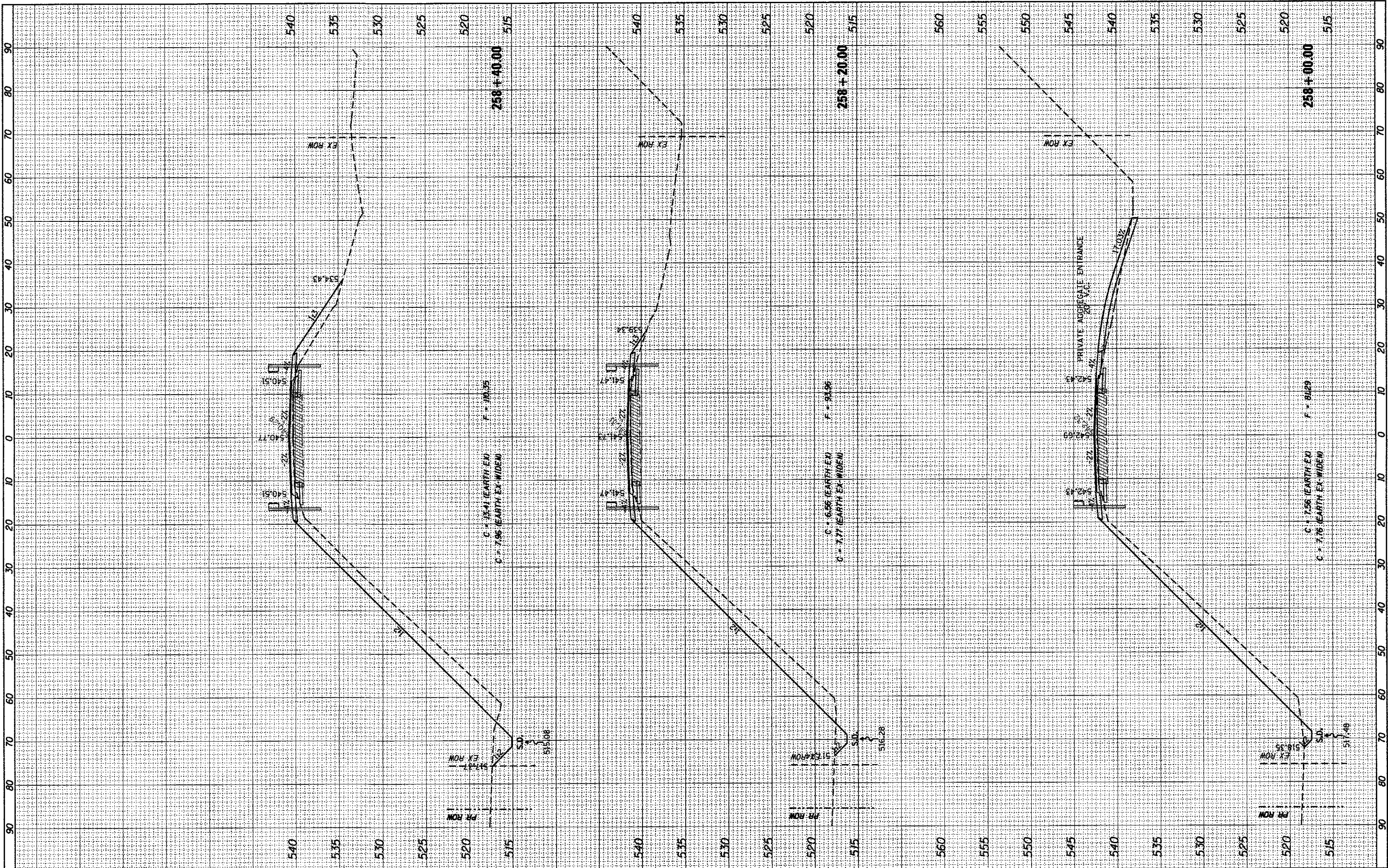
| FAS         | SECTION        | COUNTY | TOTAL SHEETS       | SHEET NO. |
|-------------|----------------|--------|--------------------|-----------|
| 777         | 11-00086-00-BR | BOND   | 42                 | 36        |
| SN 003-3054 |                |        | CONTRACT NO. 97648 |           |

ILLINOIS FED. AID PROJECT



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

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



FILE NAME = H:\6628\_BandCo\_New\_Douglas\CADD\_Sheets\6628-S1  
 USER NAME = kaahner.john  
 T:\ssht.dgn  
 PLOT SCALE = 1/8" = 10.0000' / 1"  
 PLOT DATE = 3/16/2017

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

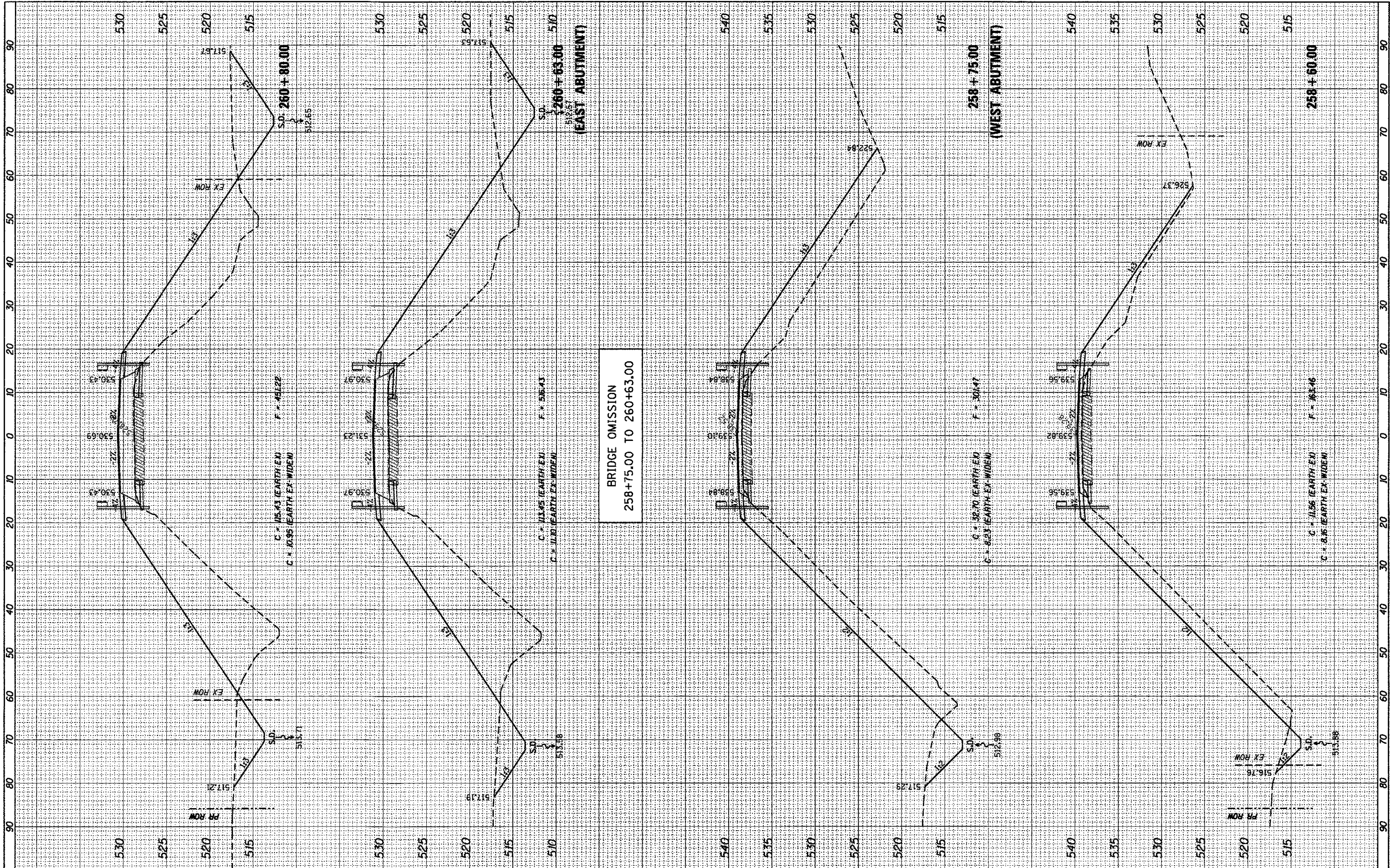
**CROSS SECTIONS**

SCALE: SHEET 5 OF 10 SHEETS STA. 258+00.00 TO STA. 258+40.00

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 37        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |

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

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



FILE NAME = H:\6628\_BondCo\_New Douglas\CAAD\_Sheets\6628-SH...  
 USER NAME = keahiser\_john  
 T:\ssht.dgn  
 PLOT SCALE = 1/8" = 20' / in.  
 PLOT DATE = 3/16/2017

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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

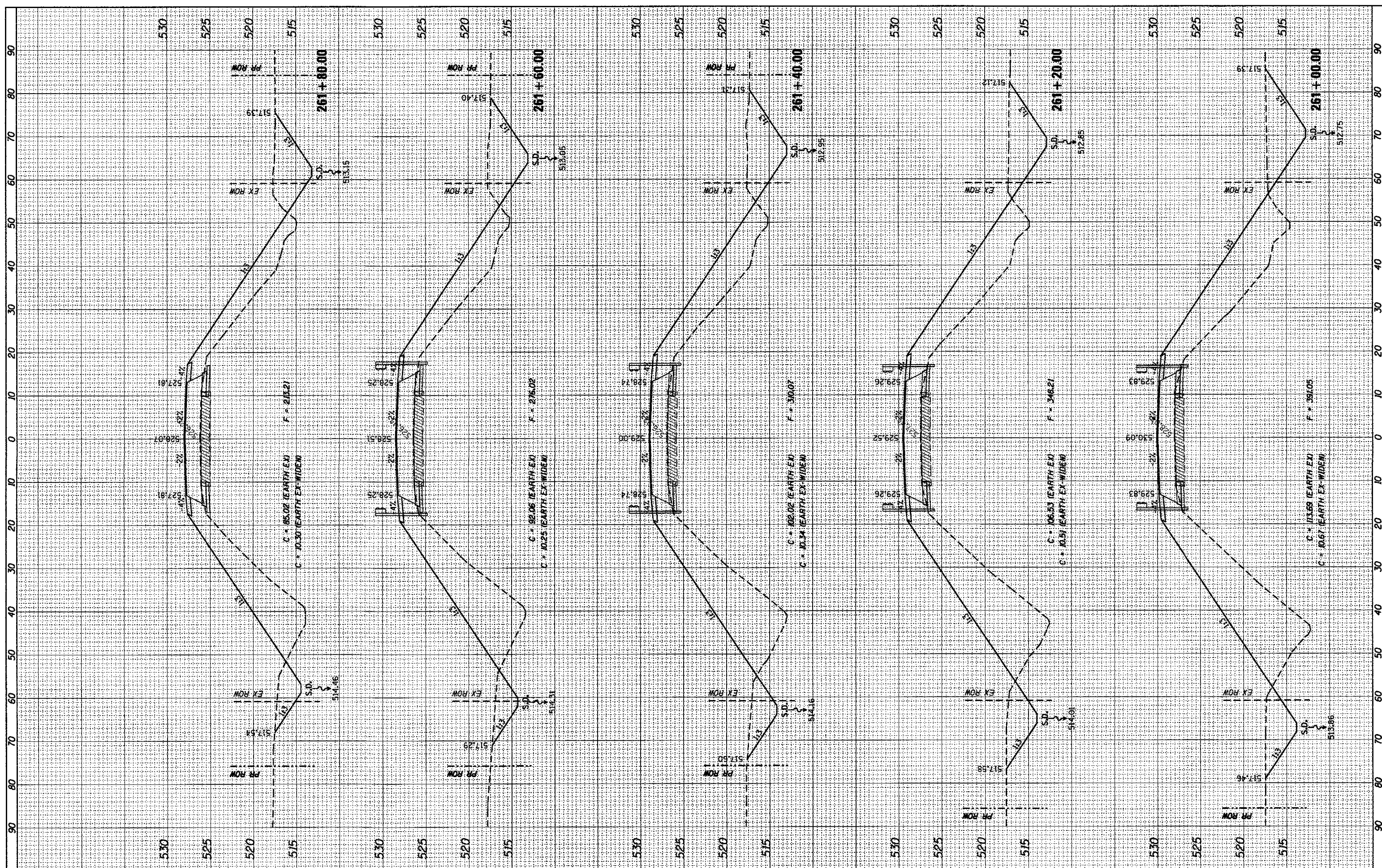
**CROSS SECTIONS**  
 SCALE: SHEET 6 OF 10 SHEETS STA. 258+60.00 TO STA. 260+80.00

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 38        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |



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| FINAL SURVEY | SHARDED  |
| NOTE BOOK    | PLOTTED  |
| NO.          | TEMPLATE |
|              | AREAS    |
|              | CHECKED  |

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



FILE NAME = H:\6628\_BondCo\_New\_Douglas\CADD\_Sheets\6628-97-xssht.dgn  
 USER NAME = kschwier.john  
 PLOT SCALE = 1/8" = 100'-0"  
 PLOT DATE = 3/15/2017

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

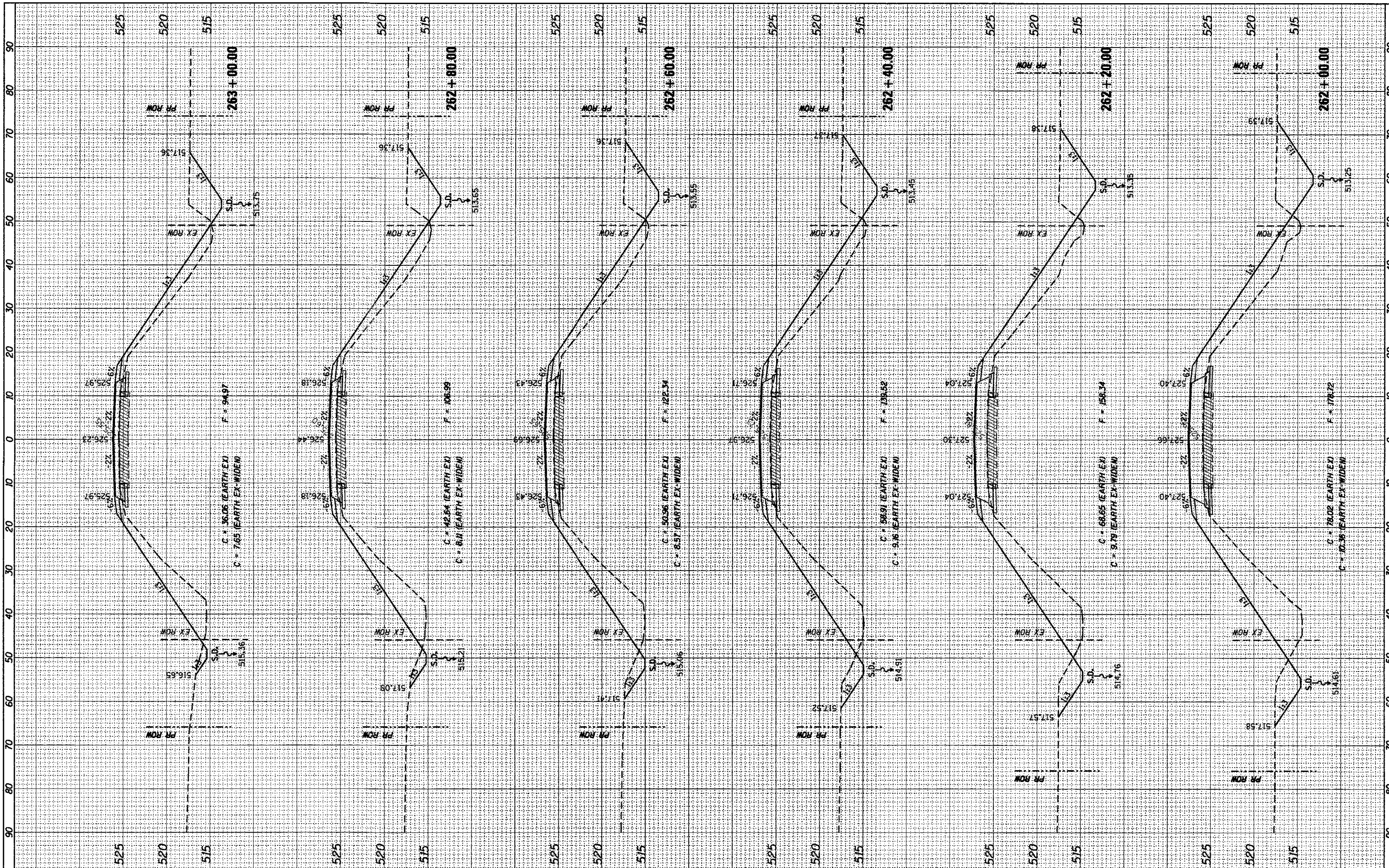
**CROSS SECTIONS**

SCALE: SHEET 7 OF 10 SHEETS STA. 261+00.00 TO STA. 261+80.00

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 39        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |

FINAL SURVEY  
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 AREAS CHECKED

ORIGINAL SURVEY  
 SURVEYED  
 PLOTTED  
 NOTE BOOK  
 AREAS CHECKED



FILE NAME = H:\6620\_BondCo\_New Douglas\CADD\_Sheets\6620-SHT-  
 USER NAME = kachwajohn  
 DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

USER NAME = kachwajohn  
 DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

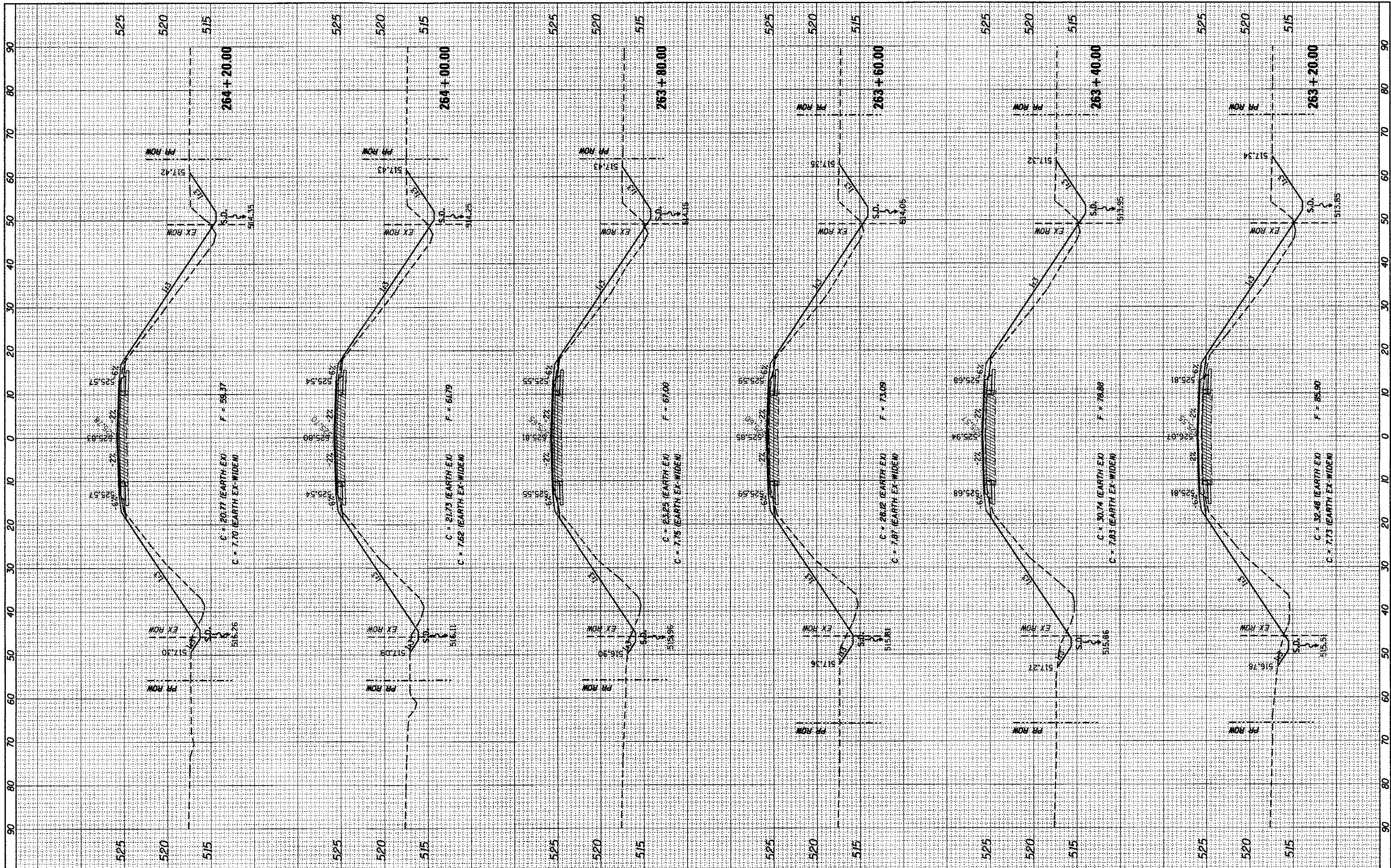
CROSS SECTIONS  
 SCALE: SHEET 8 OF 10 SHEETS STA. 262+00.00 TO STA. 263+00.00

| FAS                         | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
|-----------------------------|----------------|--------------------|--------------|-----------|
| 777                         | 11-00086-00-BR | BOND               | 42           | 40        |
| SN 003-3054                 |                | CONTRACT NO. 97648 |              |           |
| [ILLINOIS] FED. AID PROJECT |                |                    |              |           |



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| FINAL     | SURVEYED      | BY | DATE |
| SURVEY    | PLOTTED       |    |      |
| NOTE BOOK | TEMPLATE      |    |      |
|           | AREAS CHECKED |    |      |

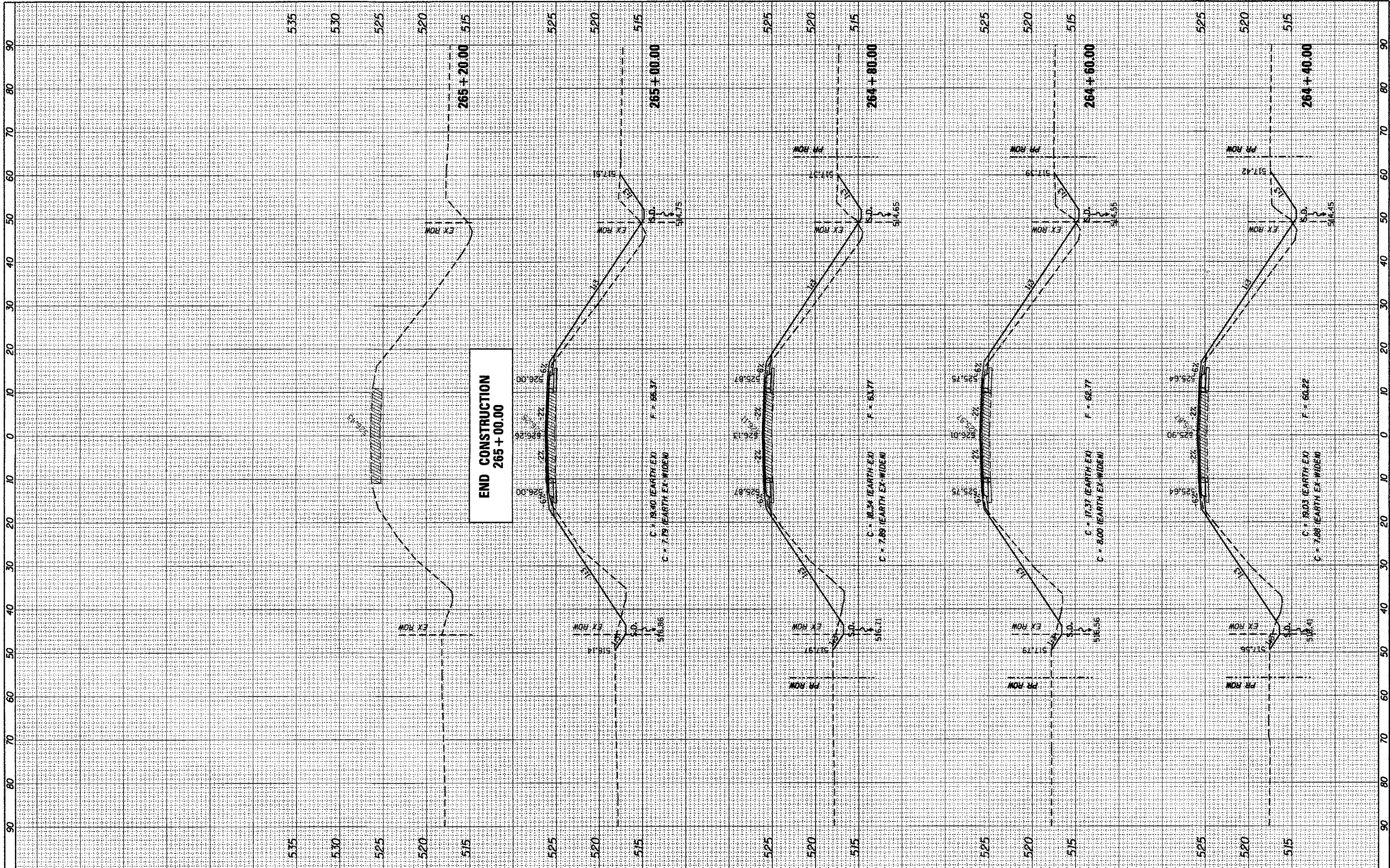
|           |               |    |      |
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| ORIGINAL  | SURVEYED      | BY | DATE |
| SURVEY    | PLOTTED       |    |      |
| NOTE BOOK | TEMPLATE      |    |      |
|           | AREAS CHECKED |    |      |



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|---|--|--|--|--|--|-----------------------|--|---------------------------|--|----------------|--------------------|-----------------|
| FILE NAME =<br>H:\6628_BandCo_New Douglas\CADD_Sheets\6628-SH | USER NAME = kschuster.john<br>F:\xshst.dgn             | DESIGNED -<br>DRAWN -<br>CHECKED -<br>DATE - | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b>              |  | <b>CROSS SECTIONS</b> |  | FAS<br>777                | SECTION<br>11-00086-00-BR<br>SN 003-3054 | COUNTY<br>BOND | TOTAL SHEETS<br>42 | SHEET NO.<br>41 |
| Default   | PLOT SCALE = 1/8" = 20' / in.<br>PLOT DATE = 3/15/2017 |  |  | SCALE:      SHEET 9 OF 10 SHEETS      STA. 263+20.00 TO STA. 264+20.00 |  | CONTRACT NO. 97648    |  | ILLINOIS FED. AID PROJECT |  |                |                    |                 |

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

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



FILE NAME = H:\6620\_BondCo\_New Douglas\CAD\_Sheets\6620-SH  
 USER NAME = kschwartz.john  
 T:\ssht.dgn  
 PLOT SCALE = 1/8" = 100'-0"  
 PLOT DATE = 3/16/2017

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET 10 OF 10 SHEETS STA. 264+40.00 TO STA. 265+20.00

|                           |                |                    |              |           |
|---------------------------|----------------|--------------------|--------------|-----------|
| FAS                       | SECTION        | COUNTY             | TOTAL SHEETS | SHEET NO. |
| 777                       | 11-00086-00-BR | BOND               | 42           | 42        |
| SN 003-3054               |                | CONTRACT NO. 97648 |              |           |
| ILLINOIS FED. AID PROJECT |                |                    |              |           |