

| F.A.P. RTE. | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|--------|--------------|-----------|
| 328         | (8BR-1)B-1 | WAYNE  | 39           | 1         |

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

**FAP ROUTE 328 (US 45)**  
**SECTION (8BR-1)B-1**

**WAYNE COUNTY**  
**C-97-113-07**

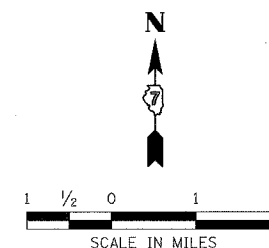
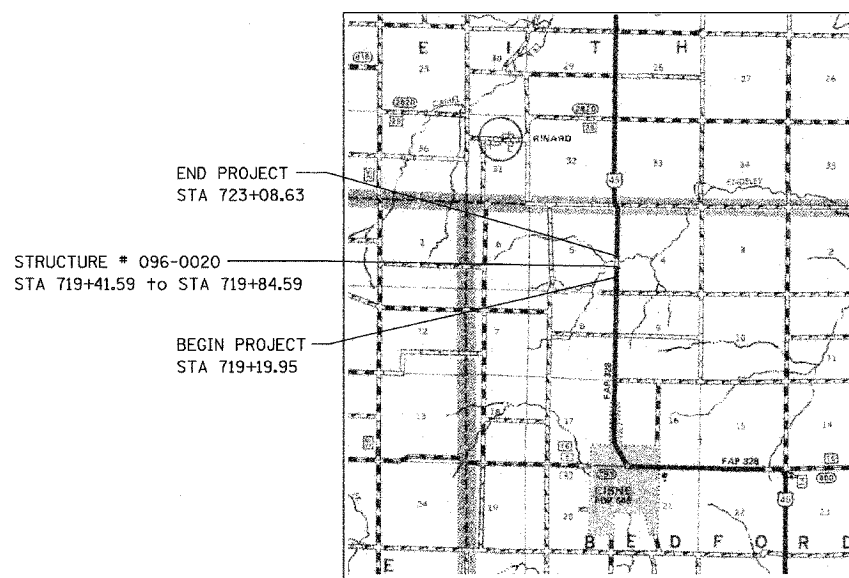
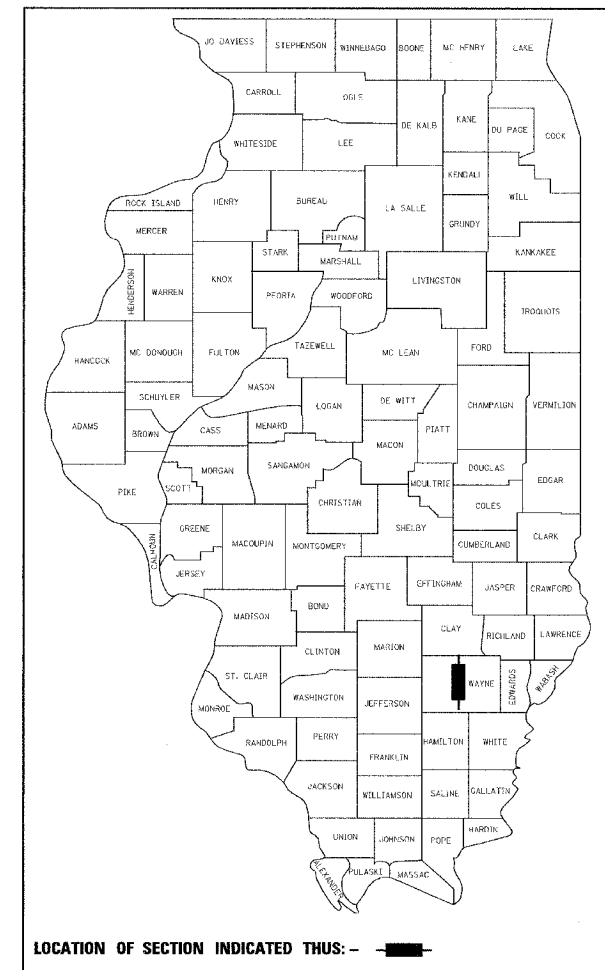
**INDEX OF SHEETS**

- 1 COVER
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-6 SCHEDULE OF QUANTITIES
- 7 ALIGNMENT TIES & BENCHMARKS
- 8 TYPICAL SECTIONS
- 9-10 PLAN & PROFILE
- 11-14 STAGE CONSTRUCTION PLAN
- 15-16 EROSION CONTROL PLAN
- 17-29 STRUCTURE PLANS SN 096-0020
- 30-39 CROSS SECTIONS

**INDEX OF IDOT HIGHWAY STANDARDS**

|           |           |
|-----------|-----------|
| 000001-04 | 635011-01 |
| 001001-01 | 701201-02 |
| 001006    | 701306-01 |
| 280001-03 | 701321-08 |
| 515001-02 | 701326-02 |
| 630001-07 | 702001-06 |
| 630201-04 | 704001-03 |
| 630301-04 | 780001-01 |
| 631032-03 | 781001-02 |
| 635006-02 |           |

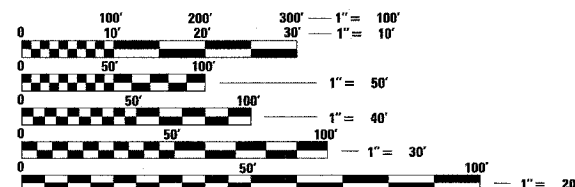
D-97-074-07



**LOCATION MAP**

WAYNE COUNTY  
US 45

GROSS LENGTH OF PROJECT = 588.68 FEET (0.11 MILES)  
NET LENGTH OF PROJECT = 588.68 FEET (0.11 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

**CONTRACT NO. 74041**

PLANS PREPARED BY  
**HORNER & SHIFRIN, INC.**  
 ENGINEERS

640 PIERCE BOULEVARD SUITE 200 • O'FALLON, ILLINOIS 62269  
 5200 OAKLAND AVENUE • ST. LOUIS, MISSOURI 63110  
 www.hornershifrin.com



*Stephanie S. Muentnich* 4/21/07  
 STEPHANIE S. MUENTNICH, P.E.  
 License Expires 11/30/2007

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED June 25, 2007  
*Charles M. Reed*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29, 2007  
*Eric E. Haral*  
 ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2007  
*Milton R. Sosa*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

| F.A.P. RTE.         | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|------------------|--------------|-----------|
| 328                 | (BBR-1)B-1 | WAYNE            | 39           | 2         |
| STA.                |            | TO STA.          |              |           |
| FED. ROAD DIST. NO. | ILLINOIS   | FED. AID PROJECT |              |           |

**1. UTILITIES**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND ARE INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

**2. EXISTING FACILITIES - VARIATIONS**

IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

**3. STATION /OFFSET REFERENCES & HORIZONTAL CONTROL**

ALL STATIONS AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.

**4. VERTICAL CONTROL**

ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U. S. G. S. MEAN SEA LEVEL DATUM.

**5. HIGHWAY STANDARDS**

ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THE PREVIOUS SHEET OR THE COPY INCLUDED IN THESE PLANS.

**6. APPLICATION RATES**

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.

|                                       |         |                  |
|---------------------------------------|---------|------------------|
| HOT-MIX ASPHALT BASE COURSE           | 0.056   | TON / SQ YD / IN |
| HOT-MIX ASPHALT SURFACE COURSE        | 0.056   | TON / SQ YD / IN |
| AGGREGATE (SURFACE, BASE, & BACKFILL) | 2.05    | TON / CU YD      |
| HOT-MIX ASPHALT MATERIALS:            |         |                  |
| PRIME COAT FOR HOT-MIX ASPHALT:       |         |                  |
| - ON PAVEMENT                         | 0.0002  | TON / SQ YD      |
| - ON COLD MILLED SURFACE              | 0.0004  | TON / SQ YD      |
| - FOG COAT ON NEW BINDER              | 0.00012 | TON / SQ YD      |
| AGGREGATE (PRIME COAT):               |         |                  |
| - ON EXISTING PAVEMENT                | 0.002   | TON / SQ YD      |
| - ON COLD MILLED SURFACE              | 0.002   | TON / SQ YD      |
| - FOG COAT ON NEW BINDER              | 0.001   | TON / SQ YD      |

**7. BITUMINOUS MATERIALS (PRIME COAT)**

FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT), THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP.

**8. AGGREGATE SURFACE COURSE, TYPE B**

AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE

**9. AGGREGATE SHOULDERS, TYPE B**

AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE OR RAP.

**10. ACCESS DURING CONSTRUCTION**

ACCESS TO ENTRANCES, AND SIDEROADS SHALL BE MAINTAINED AT ALL TIMES.

**11. BARRICADE STABILIZATION**

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

**12. SAW CUTS**

WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. SAWED JOINTS FOR REMOVALS AND BUTT JOINTS SHALL BE CONSIDERED INCLUDED IN ITEM BEING REMOVED OR CONSTRUCTED.

**13. THICKNESS OF RESURFACING**

THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN EXISTING SURFACE OR BASED ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

**14. 4" PAINT PAVEMENT MARKING**

THE PROPOSED 4" SOLID YELLOW AND 4" SOLID WHITE PAINT PAVEMENT MARKING SHOWN IN THE SCHEDULE OF QUANTITIES ARE PROVIDED FOR THE CLARIFICATION OF THE CONTRACTOR. ALL 4" PAINT PAVEMENT MARKING SHOWN IN THE PLANS IS CONSIDERED AS PART OF THE PAY ITEM FOR 78001110 PAINT PAVEMENT MARKING - LINE 4"

| MIXTURE DESIGN                          |                |                |
|---|----------------|----------------|
| MIXTURE USE                             | SURFACE COURSE | BINDER COURSE  |
| AC/PG:                                  | PG 64-22       | PG 64-22       |
| DESIGN AIR VOIDS:                       | 4.0% @ NDES=70 | 4.0% @ NDES=70 |
| MIXTURE COMPOSITION (GRADATION MIXTURE) | IL 9.5 OR 12.5 | IL 19.0        |
| VOLUMETRIC REQUIREMENTS                 |                |                |
| FRICITION AGGREGATE:                    | MIX "C"        | N/A            |
| FIELD DENSITY                           |                |                |

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL NOTES  
&  
MIXTURE DESIGNS**

SCALE: VERT. NONE HORIZ. NONE DRAWN BY KMO  
DATE 06/20/07 CHECKED BY SSM

Plot Date: 6/20/07  
 Plot Time: 8:29:07 AM  
 Plot ed By: kscleandorph  
 Pen Table: lds-113  
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|---------------------|------------|----------|------------------|-----------|
| F.A.P. RTE.         | SECTION    | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 32B                 | (8BR-1)B-1 | WAYNE    | 39               | 3         |
| STA.                |            | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |            | ILLINOIS | FED. AID PROJECT |           |

| CODED PAYITEM | DESCRIPTION   | UNIT   | TOTAL QUANTITY | SN 096-0020 (US 45)   |         |
|---------------|---|--------|----------------|---|---------|
|               |   |        |                | WAYNE COUNTY<br>100% STATE<br>STP RURAL STATE FUNDS<br>CONSTRUCTION TYPE CODE |         |
|               |   |        |                | I000-2A   | X080-2A |
| 20200100      | EARTH EXCAVATION                                    | CU YD  | 134            | 134   |         |
| 25001000      | SEEDING, CLASS 2 (SPECIAL)                          | ACRE   | 0.25           | 0.25  |         |
| 28000300      | TEMPORARY DITCH CHECKS                              | EACH   | 3              | 3   |         |
| 28000400      | PERIMETER EROSION BARRIER                           | FOOT   | 746            | 746   |         |
| 28000500      | INLET AND PIPE PROTECTION                           | EACH   | 2              | 2   |         |
| 35650500      | BASE COURSE WIDENING 10"                            | SQ YD  | 354            | 354   |         |
| 40200800      | AGGREGATE SURFACE COURSE, TYPE B                    | TON    | 31             | 31  |         |
| 40600100      | BITUMINOUS MATERIALS (PRIME COAT)                   | GALLON | 58             | 58  |         |
| 40600300      | AGGREGATE (PRIME COAT)                              | TON    | 1              | 1   |         |
| 40600990      | TEMPORARY RAMP                                      | SQ YD  | 28             | 28  |         |
| 40603085      | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70         | TON    | 5              | 5   |         |
| 40603315      | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70        | TON    | 19             | 10  | 9       |
| 40600982      | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT        | SQ YD  | 116            | 116   |         |
| 42001400      | BRIDGE APPROACH PAVEMENT (SPECIAL)                  | SQ YD  | 146            |   | 146     |
| 44000700      | APPROACH SLAB REMOVAL                               | SQ YD  | 1016           | 1016  |         |
| 48203021      | HOT-MIX ASPHALT SHOULDERS, 6"                       | SQ YD  | 297            | 297   |         |
| 50101500      | REMOVAL OF EXISTING SUPERSTRUCTURES                 | EACH   | 1              |   | 1       |
| 50105220      | PIPE CULVERT REMOVAL                                | FOOT   | 60             | 60  |         |
| 50300260      | BRIDGE DECK GROOVING                                | SQ YD  | 144            |   | 144     |
| 50300255      | CONCRETE SUPERSTRUCTURE                             | CU YD  | 1.6            |   | 1.6     |
| 50300300      | PROTECTIVE COAT                                     | SQ YD  | 154            |   | 154     |
| 50400305      | PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) | SQ FT  | 1383           |   | 1383    |
| 50800205      | REINFORCEMENT BARS (EPOXY COATED)                   | POUND  | 3250           |   | 3250    |
| 50800515      | BAR SPLICERS  | EACH   | 42             |   | 42      |
| 50900905      | REMOVING AND RE-ERECTING EXISTING RAILING           | FOOT   | 82             |   | 82      |
| 50901050      | STEEL RAILING, TYPE SM                              | FOOT   | 126            |   | 126     |
| 51500100      | NAME PLATES   | EACH   | 1              |   | 1       |
| 54200220      | PIPE CULVERTS, CLASS D, TYPE 1 15"                  | FOOT   | 70             | 70  |         |
| 54213450      | END SECTIONS 15"                                    | EACH   | 4              | 4   |         |

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION   |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | <p align="center"><b>SUMMARY OF QUANTITIES</b></p> <p align="center">SHEET 1 OF 2</p> <p>SCALE: VERT. N/A<br/>HORIZ. N/A<br/>DATE 06/20/07</p> <p align="right">DRAWN BY KMO<br/>CHECKED BY SSM</p> |
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| F.A.P. RTE.         | SECTION   | COUNTY   | TOTAL SHEETS     | SHEET NO. |
|---------------------|-----------|----------|------------------|-----------|
| 328                 | 08R-11B-1 | WAYNE    | 39               | 4         |
| STA.                |           | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |           | ILLINOIS | FED. AID PROJECT |           |

| CODED PAY ITEM      | DESCRIPTION   | UNIT             | TOTAL QUANTITY | SN 096-0020 (US 45)   |         |
|---------------------|---|------------------|----------------|---|---------|
|                     |   |                  |                | WAYNE COUNTY<br>100% STATE<br>STP RURAL STATE FUNDS<br>CONSTRUCTION TYPE CODE |         |
|                     |   |                  |                | I000-2A   | X080-2A |
| *63000000           | STEEL PLATE BEAM GUARD RAIL, TYPE A                         | FOOT             | 500            | 500   |         |
| *63100087           | TRAFFIC BARRIER TERMINAL, TYPE 6A                           | EACH             | 4              | 4   |         |
| *63100167           | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)          | EACH             | 4              | 4   |         |
| 63200310            | GUARDRAIL REMOVAL   | FOOT             | 404            | 404   |         |
| 67000500            | ENGINEER'S FIELD OFFICE, TYPE B                             | CAL MO           | 3              | 3   |         |
| 67100100            | MOBILIZATION  | L SUM            | 1              | 1   |         |
| 70100405            | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321             | EACH             | 1              | 1   |         |
| 70100450            | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201             | L SUM            | 1              | 1   |         |
| 70100460            | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306             | L SUM            | 1              | 1   |         |
| 70100500            | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326             | L SUM            | 1              | 1   |         |
| 70103815            | TRAFFIC CONTROL SURVEILLANCE                                | CAL DA           | 5              | 5   |         |
| 70106500            | TEMPORARY BRIDGE TRAFFIC SIGNALS                            | EACH             | 1              | 1   |         |
| 70301000            | WORK ZONE PAVEMENT MARKING REMOVAL                          | SQ FT            | 1591           | 1591  |         |
| 70400100            | TEMPORARY CONCRETE BARRIER                                  | FOOT             | 350            | 350   |         |
| 70400200            | RELOCATE TEMPORARY CONCRETE BARRIER                         | FOOT             | 450            | 450   |         |
| *78001110           | PAINT PAVEMENT MARKING - LINE 4"                            | FOOT             | 2895           | 2895  |         |
| *78100100           | RAISED REFLECTIVE PAVEMENT MARKER                           | EACH             | 10             | 10  |         |
| *78200410           | GUARDRAIL MARKERS, TYPE A                                   | EACH             | 8              | 8   |         |
| *78201000           | TERMINAL MARKER - DIRECT APPLIED                            | EACH             | 4              | 4   |         |
| 78300100            | PAVEMENT MARKING REMOVAL                                    | SQ FT            | 1206           | 1206  |         |
| X0300136            | BRIDGE APPROACH SHOULDER REMOVAL                            | SQ YD            | 281            | 281   |         |
| X0320047            | REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS | SQ FT            | 252            |   | 252     |
| X0324744            | REMOVAL OF EXISTING PRECAST CONCRETE UNIT                   | SQ FT            | 299            |   | 299     |
| X5030305            | CONCRETE WEARING SURFACE                                    | SQ YD            | 154            |   | 154     |
| <del>X0013790</del> | <del>CONSTRUCTION LAYOUT</del>                              | <del>L SUM</del> | <del>1</del>   |   |         |
| X0325826            | PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH) SPECIAL | SQ FT            | 252            |   | 252     |

\*SPECIALTY ITEMS

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

**SUMMARY OF QUANTITIES**  
SHEET 2 OF 2

SCALE: VERT. N/A  
DATE 06/20/07

DRAWN BY KMO  
CHECKED BY SSM

| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 5         |
| STA.                |            | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

**PAVING**

| LOCATION                          | SIDE  | WIDTH | BASE COURSE WIDENING 10" | AGGREGATE SURFACE COURSE, TYPE B | BITUMINOUS MATERIALS (PRIME COAT) | AGGREGATE (PRIME COAT) | TEMPORARY RAMP | HOT-MIX ASPHALT BINDER COURSE IL-19, N70 | HOT-MIX ASPHALT SURFACE COURSE MIX "C", N70 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | HOT-MIX ASPHALT SHOULDERS 6" |
|-----------------------------------|-------|-------|--------------------------|----------------------------------|-----------------------------------|------------------------|----------------|--|---|--|------------------------------|
| STATION TO STATION                |       | FEET  | SQ YD                    | TON                              | GALLON                            | TON                    | SQ YD          | TON                                      | TON   | SQ YD  | SQ YD                        |
| SN 096-0020 (US 45) ENDSLEY CREEK |       |       |                          |                                  |                                   |                        |                |  |   |  |                              |
| STA 717+19.95 TO STA 719+21.59    | LT    |       | 75                       |                                  |                                   |                        |                |  |   |  |                              |
| STA 717+29.89 TO STA 719+21.59    | LT    |       |                          |                                  |                                   |                        |                |  |   |  | 66                           |
| STA 716+99.69                     | LT    |       |                          | 23                               |                                   |                        |                |  |   |  |                              |
| STA 717+37.25                     | RT    |       |                          | 8                                |                                   |                        |                |  |   |  |                              |
| STA 717+44.42 TO STA 719+21.59    | RT    |       | 75                       |                                  |                                   |                        |                |  |   |  | 62                           |
| STA 719+01.59 TO STA 719+21.59    | LT/RT | 26    |                          |                                  | 29                                | 0.2                    | 14             | 2.5                                      | 5   | 58   |                              |
| STA 720+04.59 TO STA 720+24.59    | LT/RT | 26    |                          |                                  | 29                                | 0.2                    | 14             | 2.5                                      | 5   | 58   |                              |
| STA 720+04.59 TO STA 723+08.63    | LT    |       | 119                      |                                  |                                   |                        |                |  |   |  | 103                          |
| STA 720+04.59 TO STA 722+06.52    | RT    |       | 85                       |                                  |                                   |                        |                |  |   |  | 66                           |
| <b>TOTAL</b>                      |       |       | 354                      | 31                               | 58                                | 1                      | 28             | 5  | 10  | 116  | 297                          |

**PAVEMENT MARKING**

| LOCATION                          | SIDE  | PAINT PAVEMENT MARKING   |                           | RAISED REFLECTIVE PAVEMENT MARKER | PAVEMENT MARKING REMOVAL | WORK ZONE PAVEMENT MARKING REMOVAL |
|-----------------------------------|-------|--------------------------|---------------------------|-----------------------------------|--------------------------|------------------------------------|
|                                   |       | LINE 4" SOLID WHITE FOOT | LINE 4" SOLID YELLOW FOOT |                                   |                          |                                    |
| STATION TO STATION                |       |                          |                           | EACH                              | SQ FT                    | SQ FT                              |
| SN 096-0020 (US 45) ENDSLEY CREEK |       |                          |                           |                                   |                          |                                    |
| STA 716+01.34 TO STA 717+88.09    | RT    |                          |                           |                                   |                          | 187                                |
| STA 716+01.34 TO STA 718+88.09    | LT    |                          |                           |                                   |                          | 230                                |
| STA 716+01.34 TO STA 723+24.84    | LT/RT | 1448                     |                           | 10                                | 482                      | 71                                 |
| STA 716+01.34 TO STA 723+24.84    | CL    |                          | 1447                      |                                   | 724                      | 24                                 |
| STA 717+19.95 TO STA 722+01.10    | LT/RT |                          |                           |                                   |                          | 321                                |
| STA 717+24.53 TO STA 722+06.52    | LT/RT |                          |                           |                                   |                          | 321                                |
| STA 720+38.09 TO STA 723+74.84    | LT    |                          |                           |                                   |                          | 250                                |
| STA 721+38.09 TO STA 723+24.84    | RT    |                          |                           |                                   |                          | 187                                |
| <b>TOTAL</b>                      |       | 1448                     | 1447                      | 10                                | 1206                     | 1591                               |

**EARTHWORK**

| LOCATION                          | EARTH EXCAVATION | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | SHRINKAGE FACTOR | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) |
|-----------------------------------|------------------|---|------------------|------------|---|
| STATION TO STATION                | CU YD            | CU YD                                   |                  | CU YD      | CU YD                                       |
| SN 096-0020 (US 45) ENDSLEY CREEK |                  |   |                  |            |   |
| STA 716+69.16 TO STA 723+08.63    | 134              | 103                                     | 25               | 64         | 39  |
| <b>TOTAL</b>                      | 134              | 103                                     |                  | 64         | 39  |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**  
SHEET 1 OF 2

SCALE: VERT. NONE  
HORIZ. NONE  
DATE 06/20/07

DRAWN BY KMO  
CHECKED BY SSM

|                     |            |                           |              |           |
|---------------------|------------|---------------------------|--------------|-----------|
| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 6         |
| STA.                |            | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

**GUARDRAIL**

| LOCATION                          | SIDE | GUARDRAIL REMOVAL | STEEL PLATE BEAM GUARDRAIL, TYPE A | TRAFFIC BARRIER TERMINAL, TYPE 6A | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) | GUARDRAIL MARKERS, TYPE A | TERMINAL MARKER - DIRECT APPLIED |
|-----------------------------------|------|-------------------|------------------------------------|-----------------------------------|--|---------------------------|----------------------------------|
| STATION TO STATION                |      | FOOT              | FOOT                               | EACH                              | EACH   | EACH                      | EACH                             |
| SN 096-0020 (US 45) ENDSLEY CREEK |      |                   |                                    |                                   |  |                           |                                  |
| STA 717+89.10 TO STA 719+20.70    | LT   |                   | 100                                | 1                                 | 1  | 2                         | 1                                |
| STA 718+20.70 TO STA 719+22.11    | LT   | 101               |                                    |                                   |  |                           |                                  |
| STA 718+01.60 TO STA 719+20.60    | RT   |                   | 87.5                               | 1                                 | 1  | 2                         | 1                                |
| STA 718+20.60 TO STA 719+21.87    | RT   | 101               |                                    |                                   |  |                           |                                  |
| STA 720+04.32 TO STA 721+04.32    | LT   | 101               |                                    |                                   |  |                           |                                  |
| STA 720+05.71 TO STA 722+49.58    | LT   |                   | 212.5                              | 1                                 | 1  | 2                         | 1                                |
| STA 720+03.93 TO STA 721+03.93    | RT   | 101               |                                    |                                   |  |                           |                                  |
| STA 720+04.98 TO STA 721+37.08    | RT   |                   | 100                                | 1                                 | 1  | 2                         | 1                                |
| TOTAL                             |      | 404               | 500                                | 4                                 | 4  | 8                         | 4                                |

**REMOVAL ITEMS**

| LOCATION                          | SIDE | PIPE CULVERT REMOVAL |
|-----------------------------------|------|----------------------|
| STATION TO STATION                |      | FOOT                 |
| SN 096-0020 (US 45) ENDSLEY CREEK |      |                      |
| STA 717+18.81 TO STA 717+48.77    | RT   | 30                   |
| STA 717+28.61 TO STA 717+56.53    | LT   | 30                   |
| TOTAL                             |      | 60                   |

**EROSION CONTROL**

| LOCATION                          | SIDE | TEMPORARY DITCH CHECKS | PERIMETER EROSION BARRIER | INLET AND PIPE PROTECTION |
|-----------------------------------|------|------------------------|---------------------------|---------------------------|
| STATION TO STATION                |      | EACH                   | FOOT                      | EACH                      |
| SN 096-0020 (US 45) ENDSLEY CREEK |      |                        |                           |                           |
| STA 717+11.69 TO STA 719+21.59    | LT   |                        | 240                       |                           |
| STA 716+79.86                     | LT   |                        |                           | 1                         |
| STA 717+18.81                     | RT   |                        |                           | 1                         |
| STA 717+65.00                     | RT   | 1                      |                           |                           |
| STA 717+75.00 TO STA 719+21.59    | RT   |                        | 148                       |                           |
| STA 720+04.59 TO STA 722+50.00    | LT   |                        | 246                       |                           |
| STA 720+04.59 TO STA 721+15.00    | RT   |                        | 112                       |                           |
| STA 721+25.00                     | RT   | 1                      |                           |                           |
| STA 722+75.00                     | LT   | 1                      |                           |                           |
| TOTAL                             |      | 3                      | 746                       | 2                         |

**DRAINAGE**

| LOCATION                          | SIDE | PIPE CULVERTS, CLASS D, TYPE 1 15" | END SECTIONS 15" |
|-----------------------------------|------|------------------------------------|------------------|
| STATION TO STATION                |      | FOOT                               | EACH             |
| SN 096-0020 (US 45) ENDSLEY CREEK |      |                                    |                  |
| STA 716+79.86 TO STA 717+17.55    | LT   | 38                                 | 2                |
| STA 717+18.81 TO STA 717+50.00    | RT   | 32                                 | 2                |
| TOTAL                             |      | 70                                 | 4                |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

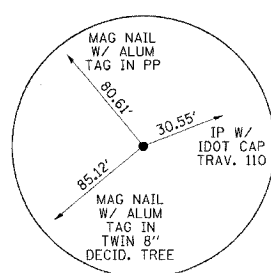
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SHEET 2 OF 3

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 DATE 06/20/07

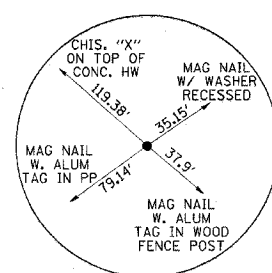
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| F.A.P. RTE.         | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 328                 | (8BR-1B-1 | WAYNE                     | 39           | 7         |
| STA.                |           | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |           | ILLINOIS FED. AID PROJECT |              |           |

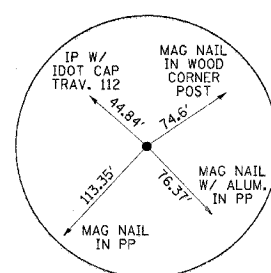
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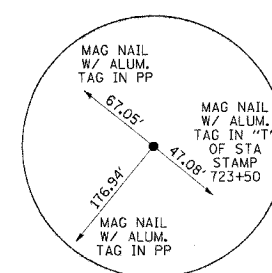
FAP 328 (US 45)  
ALIGNMENT TIE  
P.O.T. STA 708+15.31



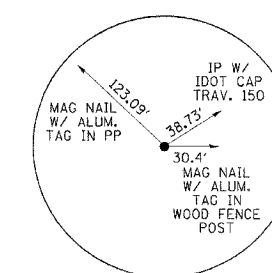
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ALIGNMENT TIE  
P.C. STA 723+04.45



FAP 328 (US 45)  
ALIGNMENT TIE  
P.I. STA 728+04.45



FAP 328 (US 45)  
ALIGNMENT TIE  
P.T. STA 733+04.45



FAP 328 (US 45)  
ALIGNMENT TIE  
P.O.T. STA 739+69.87

**BENCHMARKS:**

FAP 328 (US 45)

- BM 217 - RR SPIKE IN POWER POLE WEST OF US 45. STA 729+00, 29.9' LT. ELEVATION - 455.266
- BM 218 - CHISELED SQUARE ON NW CORNER OF BRIDGE SN 093-096-0020. STA 719+90, 16.1' LT. ELEVATION - 439.18
- BM 219 - RR SPIKE IN POWER POLE WEST OF US 45. STA 719+90, 29.6' LT. ELEVATION - 438.448
- BM 220 - RR SPIKE IN POWER POLE WEST OF US 45. STA 689+92, 30.7' LT. ELEVATION - 457.68

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ILLINOIS DEPARTMENT OF TRANSPORTATION

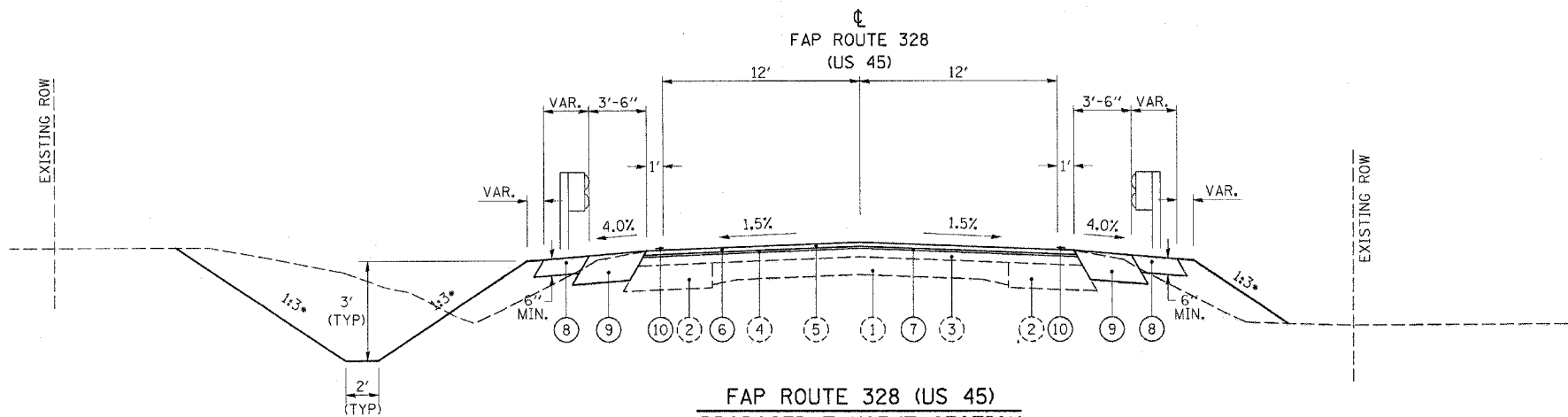
**ALIGNMENT TIES & BENCHMARKS**

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HORIZ. N/A  
DATE 06/20/07

DRAWN BY KMO  
CHECKED BY SSM

Plot Date: 6/20/07  
 Plotted By: KMO  
 Plotted By: KMO  
 Pen Tables: I:\pen.tbl  
 File Name: I:\A06055\Cad\Drawings\Construction\Signs\06\_Control.dgn

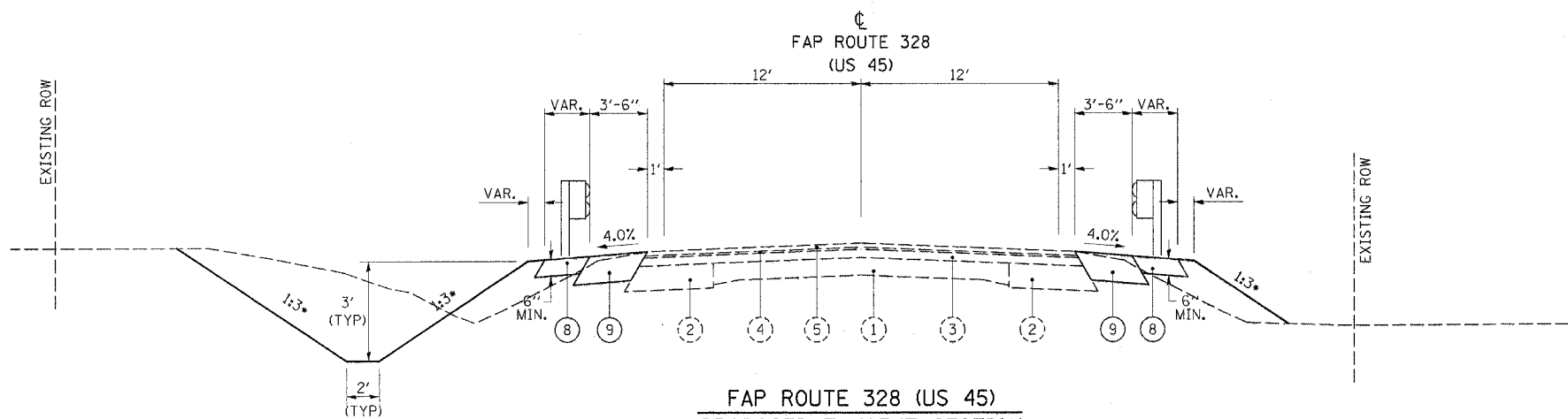
| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 8         |
| STA.                |            | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



**FAP ROUTE 328 (US 45)  
PROPOSED TANGENT SECTION**

- TO APPLY -  
STA 719+01.59 TO STA 720+24.59  
BRIDGE OMISSION  
STA 719+21.59 TO STA 720+04.59

\* OR AS SHOWN ON CROSS SECTIONS



**FAP ROUTE 328 (US 45)  
PROPOSED TANGENT SECTION**

- TO APPLY -  
STA 717+19.95 LT TO STA 719+01.59 LT  
STA 717+43.80 RT TO STA 719+01.59 RT  
STA 720+24.59 LT TO STA 723+08.63 LT  
STA 720+24.59 RT TO STA 722+06.52 RT

**MATERIALS LEGEND**

- ① EXISTING PCC PAVEMENT
- ② EXISTING WIDENING
- ③ EXISTING HOT-MIX ASPHALT BINDER (VARIABLE DEPTH)
- ④ EXISTING HOT-MIX ASPHALT LEVELING BINDER (MACHINE METHOD) TYPE 2, 3/4"
- ⑤ EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, CLASS 1, TYPE 2, 1 1/2"
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N70, (1 1/2")
- ⑦ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, (3/4")
- ⑧ PROPOSED HOT-MIX ASPHALT SHOULDERS, 6"
- ⑨ PROPOSED BASE COURSE WIDENING, 10"
- ⑩ PROPOSED PAVEMENT MARKING

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ILLINOIS DEPARTMENT OF TRANSPORTATION

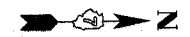
**TYPICAL SECTIONS  
US 45**

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HORIZ. N/A  
DATE 06/20/07

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CHECKED BY SSM

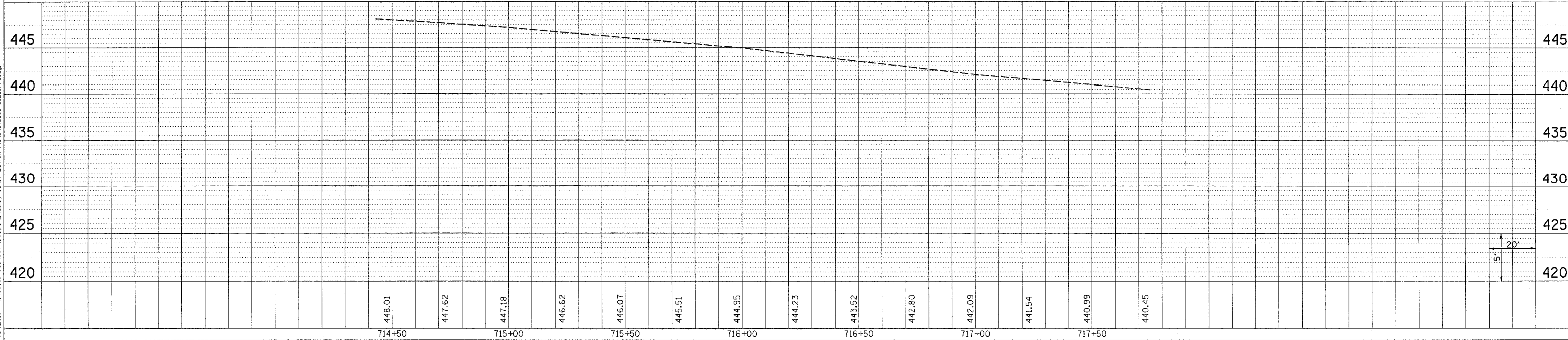
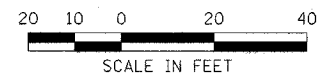
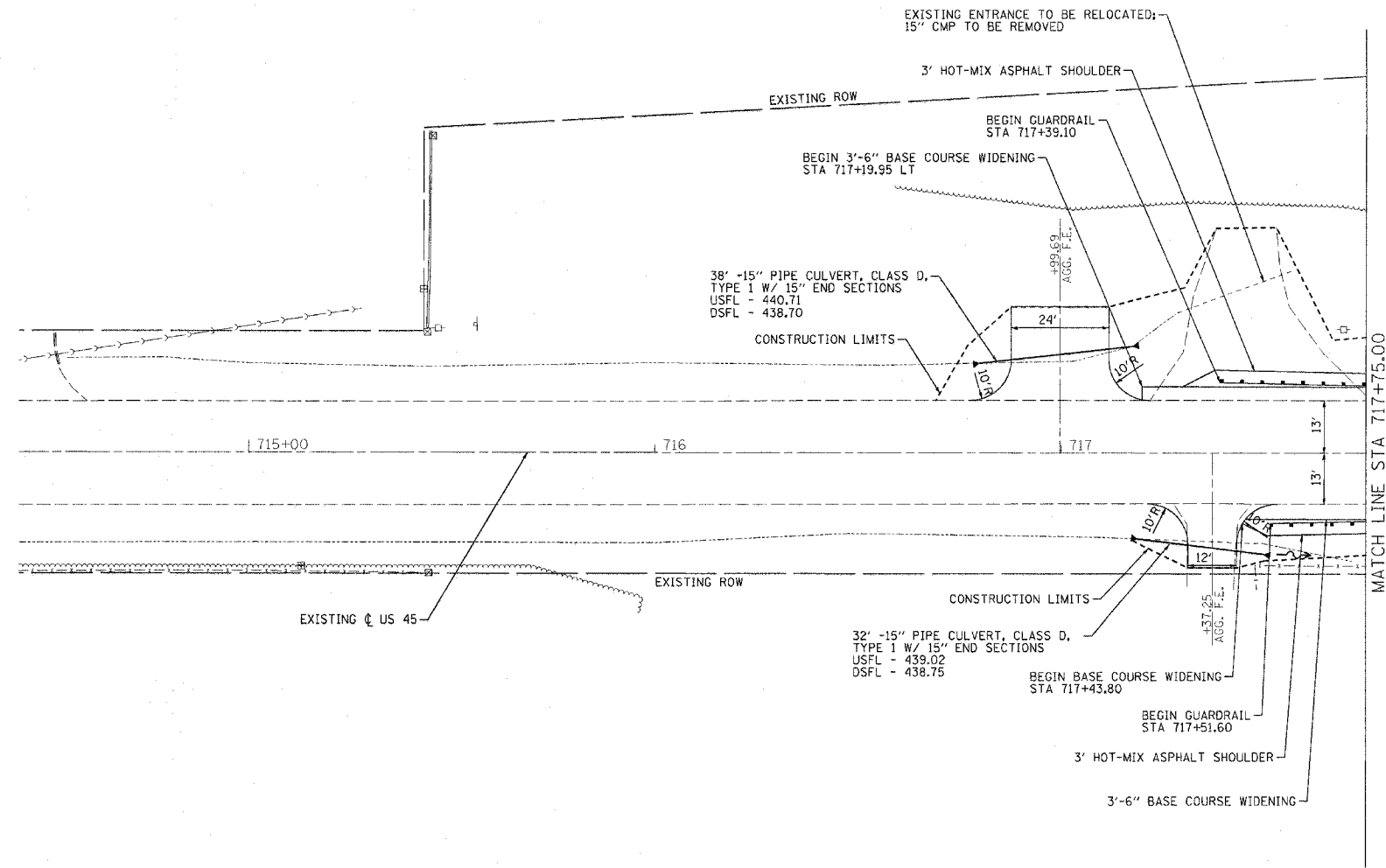


| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 9         |
| STA. 716+50.00      |            | TO STA. 722+50.00         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



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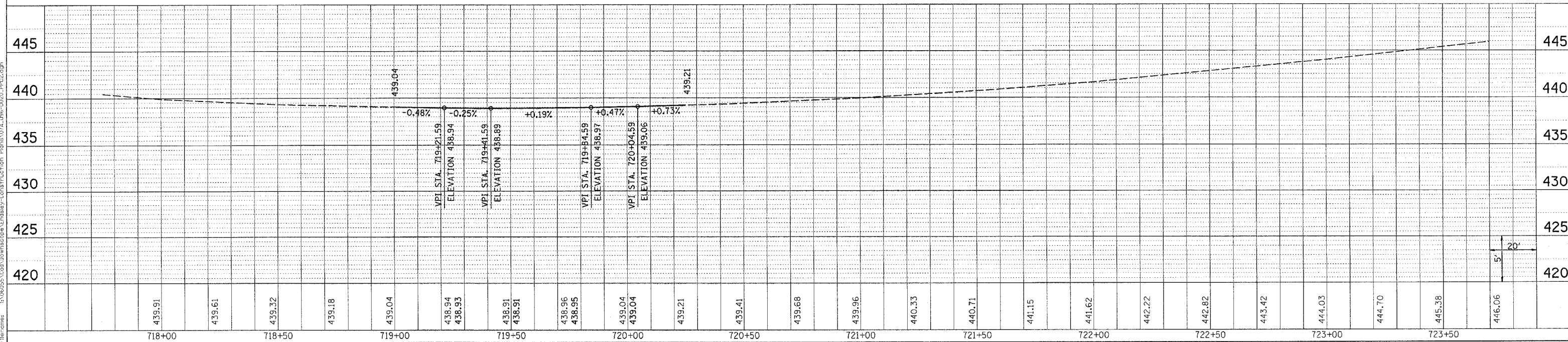
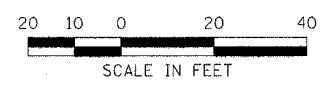
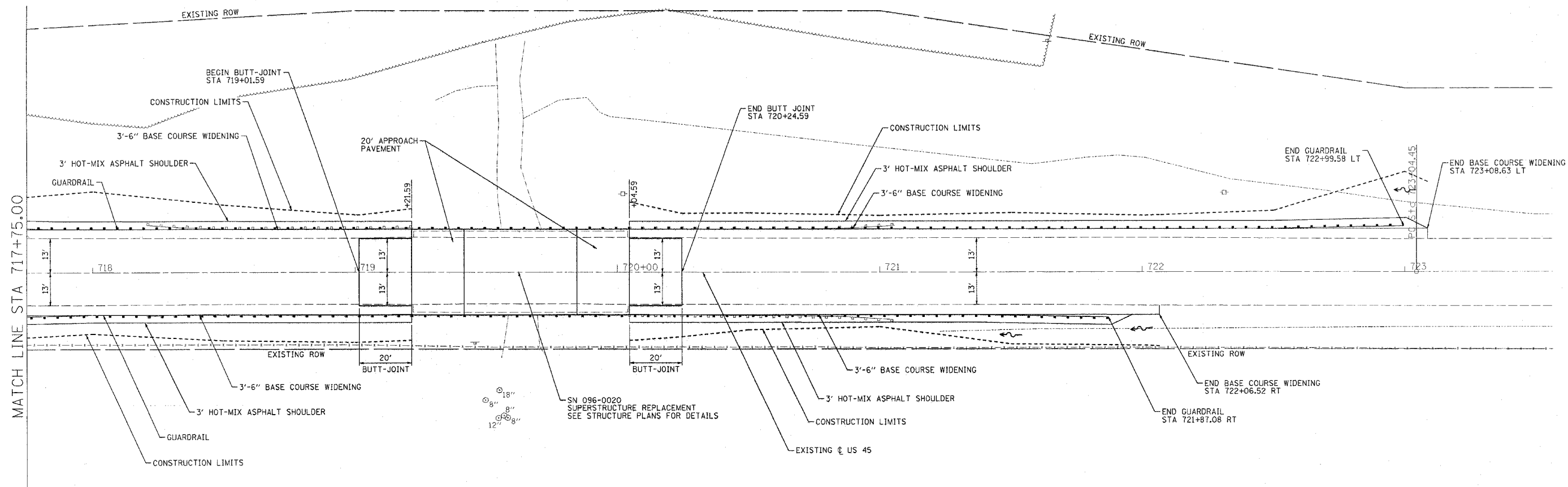
| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 10        |
| STA. 716+50.00      |            | TO STA. 722+50.00         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

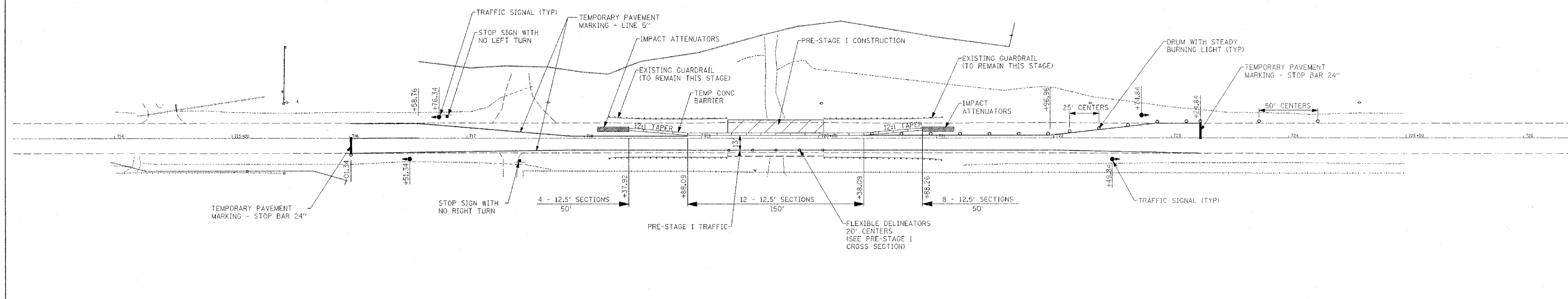


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Plot Date: 6/21/2007  
 Plot Time: 7:35:31 AM  
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 Pen: 100  
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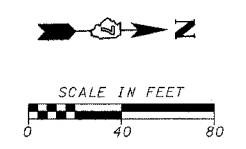




**SEQUENCE OF CONSTRUCTION**

1. SET-UP PRE-STAGE I TRAFFIC CONTROL.
2. INSTALL FLEXIBLE DELINEATORS ALONG RIGHT SIDE OF STRUCTURE.
3. REMOVE AND REPLACE TWO EXTERIOR BEAMS ON LEFT SIDE OF STRUCTURE
4. RESURFACE AREA OF BEAM REMOVAL & REPLACEMENT.
5. CHANGE TRAFFIC CONTROL TO STAGE I.

**PRE-STAGE I**

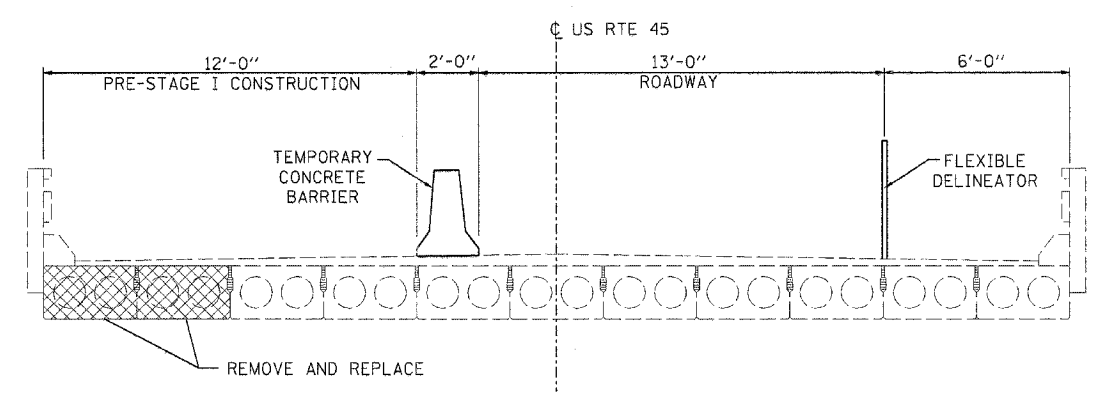


**NOTES**

ADVANCED WARNING SIGNS, TEMPORARY RUMBLE STRIPS, VERTICAL PANELS, PAVEMENT MARKERS, AND BARRICADE REFLECTORS SHALL BE LOCATED IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEE SPECIAL PROVISIONS, STAGING TYPICAL SECTIONS, AND HIGHWAY STANDARD 701321 FOR ADDITIONAL INFORMATION.

IMPACT ATTENUATORS SHALL CONFORM TO BDE PROCEDURE MEMORANDUM NO. 34-06 "IMPACT ATTENUATORS (CRASH CUSHIONS)"



**PRE-STAGE I CROSS SECTION**

| REVISIONS |      |
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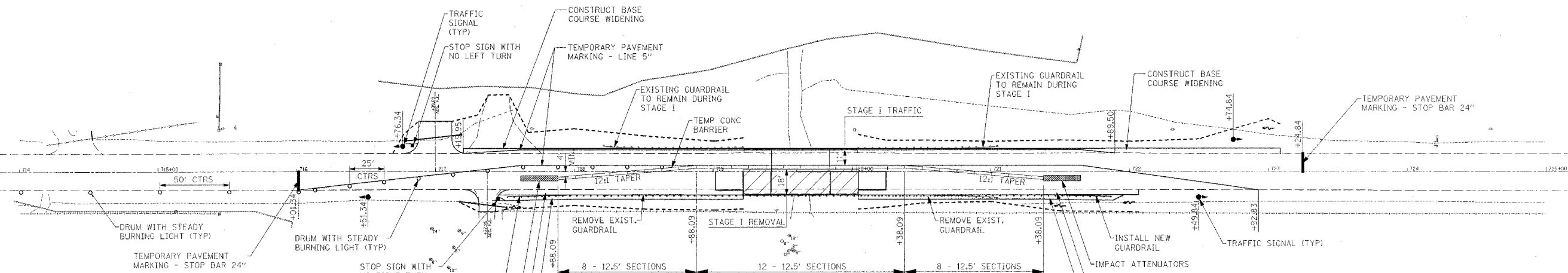
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGING DETAILS**  
US ROUTE 45  
OVER ENDSLEY CREEK

SCALE: VERT. N/A  
HORIZ. 1" = 40'  
DATE 06/20/07

DRAWN BY KMO  
CHECKED BY SSM

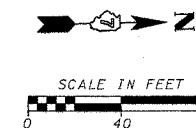
| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 12        |
| STA. 716+01.34      |            | TO STA. 723+24.84         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



**SEQUENCE OF CONSTRUCTION**

1. WIDEN LEFT SIDE OF PAVEMENT FOR STAGE I TRAFFIC USING STANDARD 701326 TO CONSTRUCT BASE COURSE WIDENING.
2. SET-UP STAGE I TRAFFIC CONTROL.
3. REMOVE RIGHT SIDE OF EXISTING STRUCTURE.
4. INSTALL NEW PRECAST PRESTRESSED CONCRETE BEAMS ON RIGHT SIDE OF STRUCTURE.
5. CONSTRUCT NEW PAVEMENT ON RIGHT SIDE OF STRUCTURE.
6. WIDEN RIGHT SIDE OF PAVEMENT FOR STAGE II TRAFFIC.
7. CHANGE TRAFFIC CONTROL TO STAGE II.
8. REMOVE LEFT SIDE OF EXISTING STRUCTURE.
9. INSTALL NEW PRECAST PRESTRESSED CONCRETE BEAMS ON LEFT SIDE OF STRUCTURE.
10. CONSTRUCT NEW PAVEMENT ON LEFT SIDE OF STRUCTURE.
11. REMOVE TRAFFIC CONTROL BARRIER AND TRAFFIC SIGNALS.
12. RESURFACE ENTIRE PROJECT.

**STAGE I**

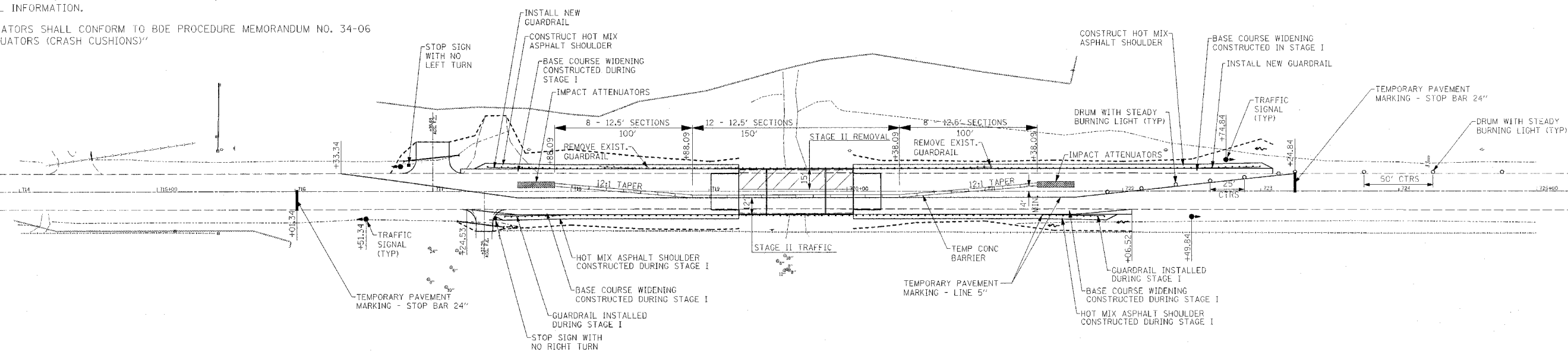


**NOTES**

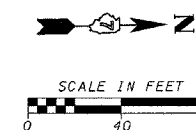
ADVANCED WARNING SIGNS, TEMPORARY RUMBLE STRIPS, VERTICAL PANELS, PAVEMENT MARKERS, AND BARRICADE REFLECTORS SHALL BE LOCATED IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

SEE SPECIAL PROVISIONS, STAGING TYPICAL SECTIONS, AND HIGHWAY STANDARD 701321 FOR ADDITIONAL INFORMATION.

IMPACT ATTENUATORS SHALL CONFORM TO BDE PROCEDURE MEMORANDUM NO. 34-06 "IMPACT ATTENUATORS (CRASH CUSHIONS)"



**STAGE II**



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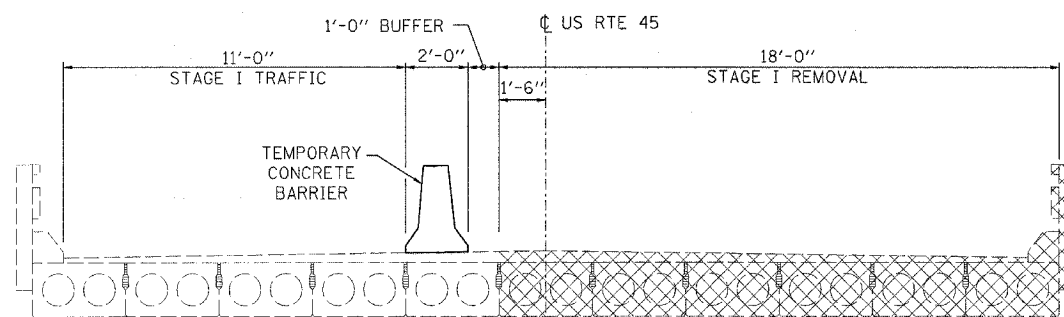
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGING DETAILS**  
US ROUTE 45  
OVER ENDSLEY CREEK

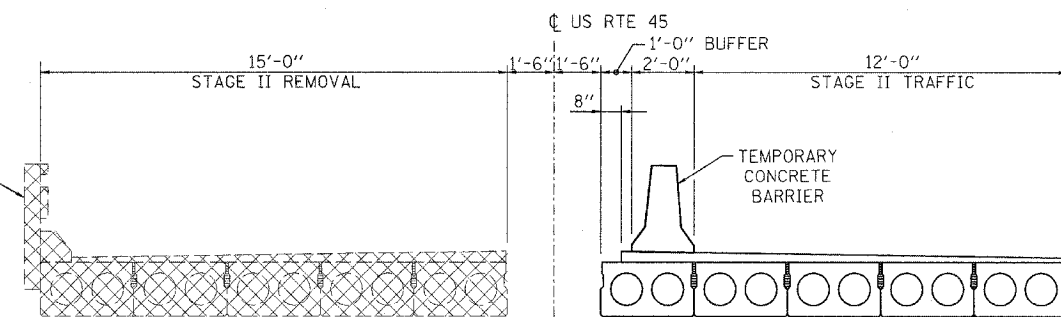
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HORIZ. 1" = 40'  
DATE 06/20/07

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CHECKED BY RPJ

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| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 13        |
| STA.                |            | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



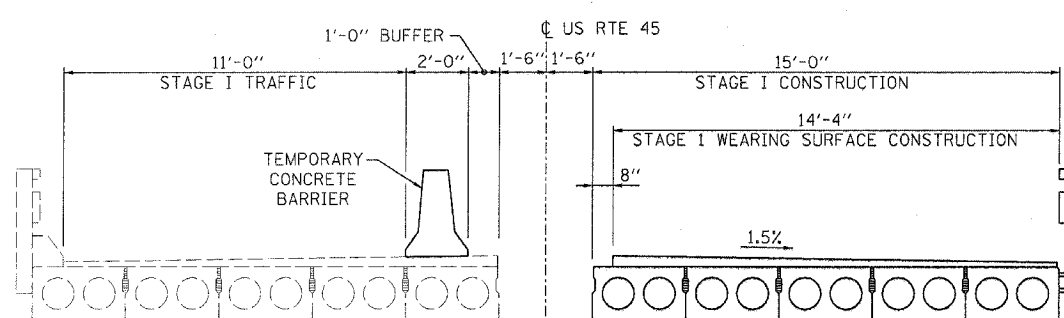
STAGE I REMOVAL



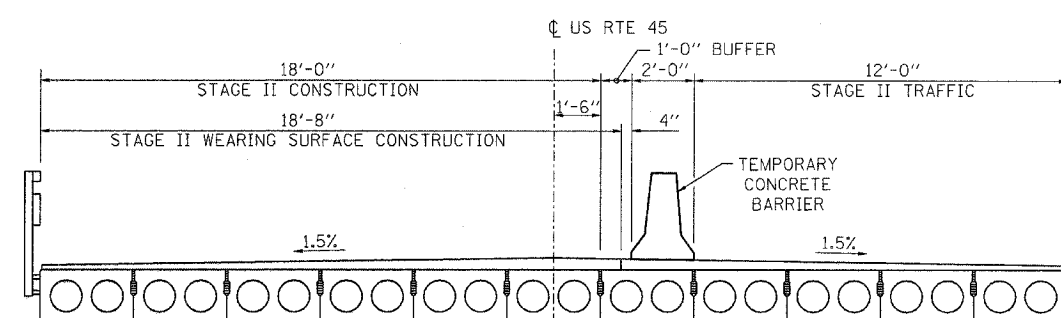
STAGE II REMOVAL

REMOVAL OF EXISTING STEEL BRIDGE RAIL IS INCLUDED WITH REMOVAL OF EXISTING SUPERSTRUCTURE

NOTE:  
CROSS HATCHED AREAS INDICATE REMOVAL OF EXISTING SUPERSTRUCTURE.



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

PLOT DATE = 3/15/06  
FILE NAME = STAGE1.XS.B22.DGN

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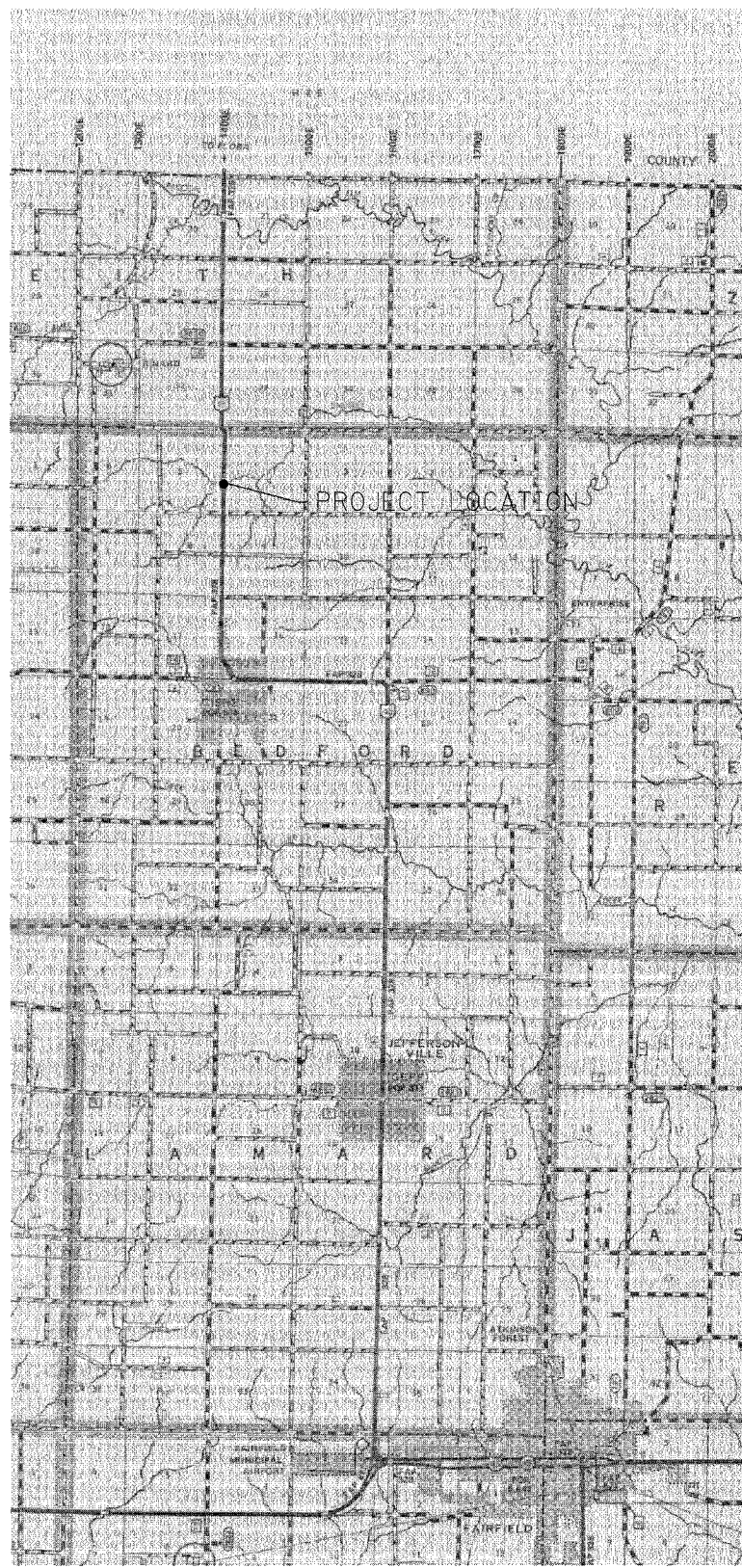
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STAGING CROSS SECTIONS**  
US ROUTE 45  
OVER ENDSLEY CREEK

SCALE: VERT. NONE  
HORIZ. NONE  
DATE 06/20/07

DRAWN BY TJO  
CHECKED BY RPJ

| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 14        |
| STA.                |            | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



LOCATION MAP

INSTALL WIDTH RESTRICTION SIGNS

1 - EACH (60"X48")  
 "BRIDGE CONSTRUCTION"  
 "14 MILES AHEAD"  
 "MAXIMUM WIDTH"  
 "9 FT - 6 IN"  
 TO BE INSTALLED JUST NORTH OF  
 THE US 45/IL 15 INTERSECTION  
 WEST OF FAIRFIELD, ILLINOIS

1 - EACH (60"X48")  
 "BRIDGE CONSTRUCTION"  
 2 MILES AHEAD  
 "MAXIMUM WIDTH"  
 "9 FT - 6 IN"  
 TO BE INSTALLED ALONG US 45  
 JUST NORTH OF CH 16  
 NORTH OF CISNE, ILLINOIS

1 - EACH (60"X48")  
 "BRIDGE CONSTRUCTION"  
 "9 MILES AHEAD"  
 "MAXIMUM WIDTH"  
 "9 FT - 6 IN"  
 TO BE INSTALLED JUST SOUTH OF  
 US 45/US 50 INTERSECTION  
 EAST OF FLORA, ILLINOIS

1 - EACH (30"X12")  
 "MAX WIDTH"  
 AND  
 1 - EACH (30"X12")  
 "9 FT - 6 IN"  
 TO BE INSTALLED UNDER EACH  
 W20-4(O)-48  
 "ONE LANE ROAD AHEAD"  
 SIGN

PLOT DATE = 3/15/07  
 FILE NAME = STAGELSGN\_028.DGN

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STAGING WIDTH RESTRICTION  
 SIGNAGE**  
 US ROUTE 45  
 OVER ENDSLEY CREEK

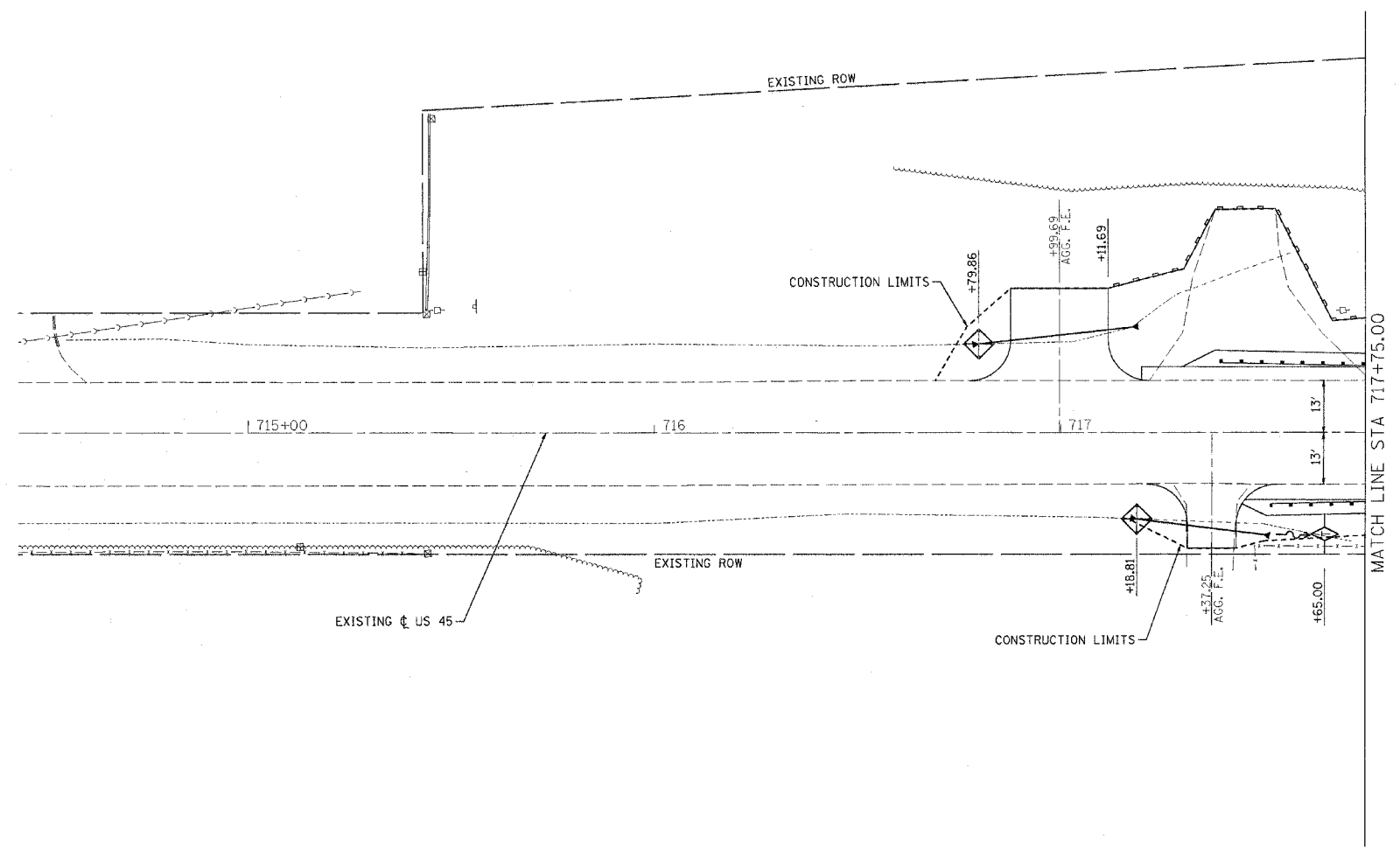
SCALE: VERT. NONE  
 HORIZ. NONE  
 DATE 06/20/07  
 DRAWN BY TJO  
 CHECKED BY RPJ

| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 15        |
| STA. 716+50.00      |            | TO STA. 722+50.00         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |



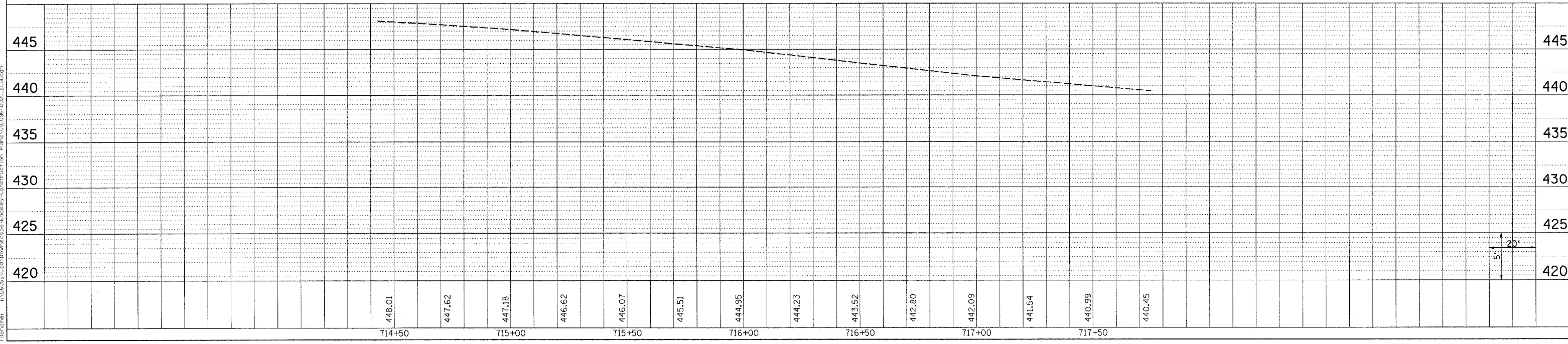
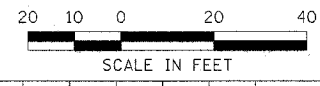
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|------|------------|------|
| PLAN | SUBMITTED  | DATE |
| NO.  | BY         |      |
|      | ALLOTTED   |      |
|      | CHECKED    |      |
|      | DATE FILED |      |
|      | FILE NAME  |      |

|         |            |      |
|---------|------------|------|
| PROFILE | SUBMITTED  | DATE |
| NO.     | BY         |      |
|         | ALLOTTED   |      |
|         | CHECKED    |      |
|         | DATE FILED |      |
|         | FILE NAME  |      |



**LEGEND**

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER



Plot Date: 6/21/2007  
 Plot Time: 7:40:00 AM  
 Plotted By: koldenbrph  
 Date: 6/21/2007  
 File Name: R:\096\020\Drawings\Endsley\Construction\Plans\096-020-EGD.dwg

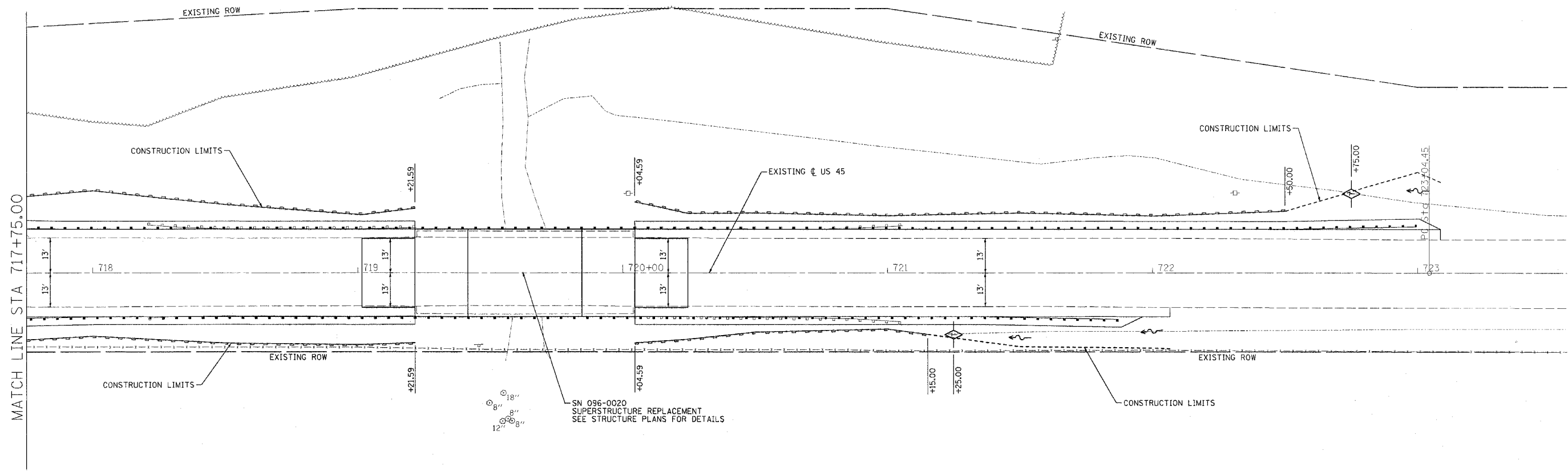
| F.A.P. RTE.         | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 328                 | (BBR-1B-1 | WAYNE                     | 39           | 16        |
| STA. 716+50.00      |           | TO STA. 722+50.00         |              |           |
| FED. ROAD DIST. NO. |           | ILLINOIS FED. AID PROJECT |              |           |



| PLAN          | DATE |
|---------------|------|
| REVISION      |      |
| PLOTTED       |      |
| CHECKED       |      |
| BY            |      |
| DATE          |      |
| NOTE BOOK NO. |      |
| ADD FILE NAME |      |

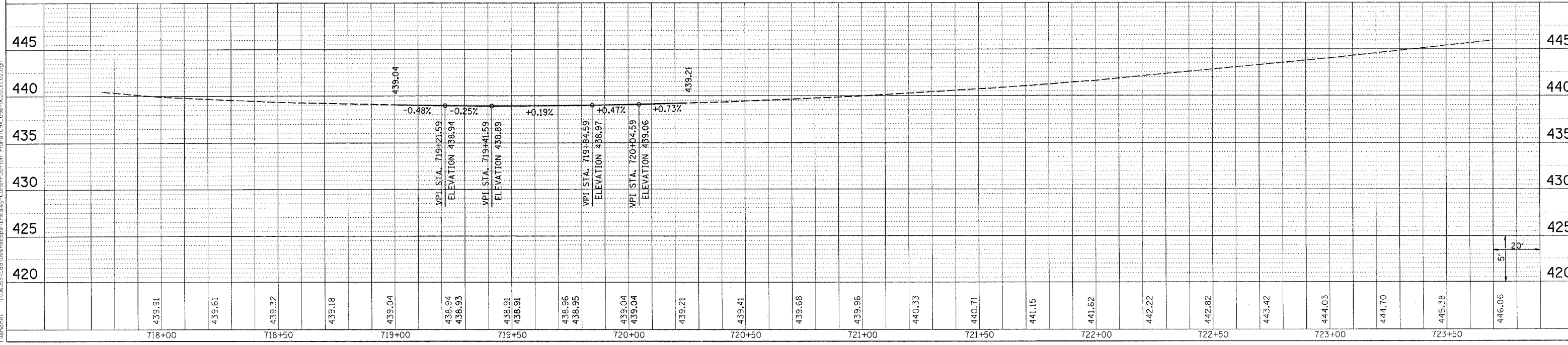
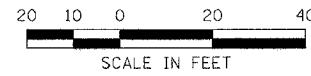
| PROFILE       | DATE |
|---------------|------|
| REVISION      |      |
| PLOTTED       |      |
| CHECKED       |      |
| BY            |      |
| DATE          |      |
| NOTE BOOK NO. |      |
| ADD FILE NAME |      |

Plot Date: 6/21/2007  
 Plot Time: 7:40:06 AM  
 Plotted By: kridenberr  
 User: kridenberr  
 File Path: \\068555\cadd\Drawings\Endsley\Construction\Plans\096-0020-EC02.dwg



**LEGEND**

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER





Bench Mark: RR Spike in Power Pole on West Side of US 45, Sta. 719+90.00 approximately 29.6' Left, Elev. 438.45.

Existing Structure: S.N. 096-0020 was built in 1921 as S.B.I. Rte. 25 Sec. 8B at Sta. 719+63.00. In 1974 the superstructure was replaced, and the substructure widened. The existing single span structure consists of PPC deck beams on spread footing supported closed abutments. The bk. to bk. abts dimension measures 43'-0" while the O.-O. width measures 33'-0". The existing superstructure shall be replaced with PPC deck beams and the existing approach pavement shall be replaced with new Bridge Approach Pavement (Special). Staging shall be used during construction.

No Salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Temporary Concrete Barrier for Stage Construction
4. Type SM Steel Bridge Rail Side Mounted
5. Bridge Approach Pavement (Special)
- 6-8. Superstructure Details
9. Abutments
10. Bar Splicer Assembly Details
- 11-13. Pre-Stage I Details

|                       |             |                  |        |           |
|-----------------------|-------------|------------------|--------|-----------|
| ROUTE NO.             | SECTION     | COUNTY           | SHEETS | SHEET NO. |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE            | 39     | 17        |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT |        |           |

SHEET NO. 1  
13 SHEETS

Contract #74041

GENERAL NOTES

The minimum thickness of Concrete wearing surface shall be 5" and varies as required to adjust for the new profile grade and beam camber.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

All Construction joints shall be bonded. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The contractor is advised that the existing Precast Prestressed Concrete Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats, the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum, and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

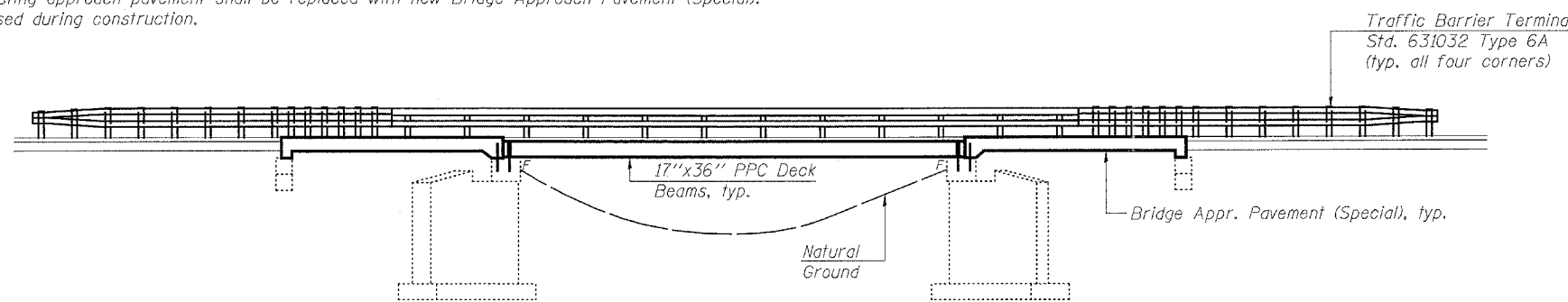
No in-stream work will be allowed on this project.

TOTAL BILL OF MATERIAL

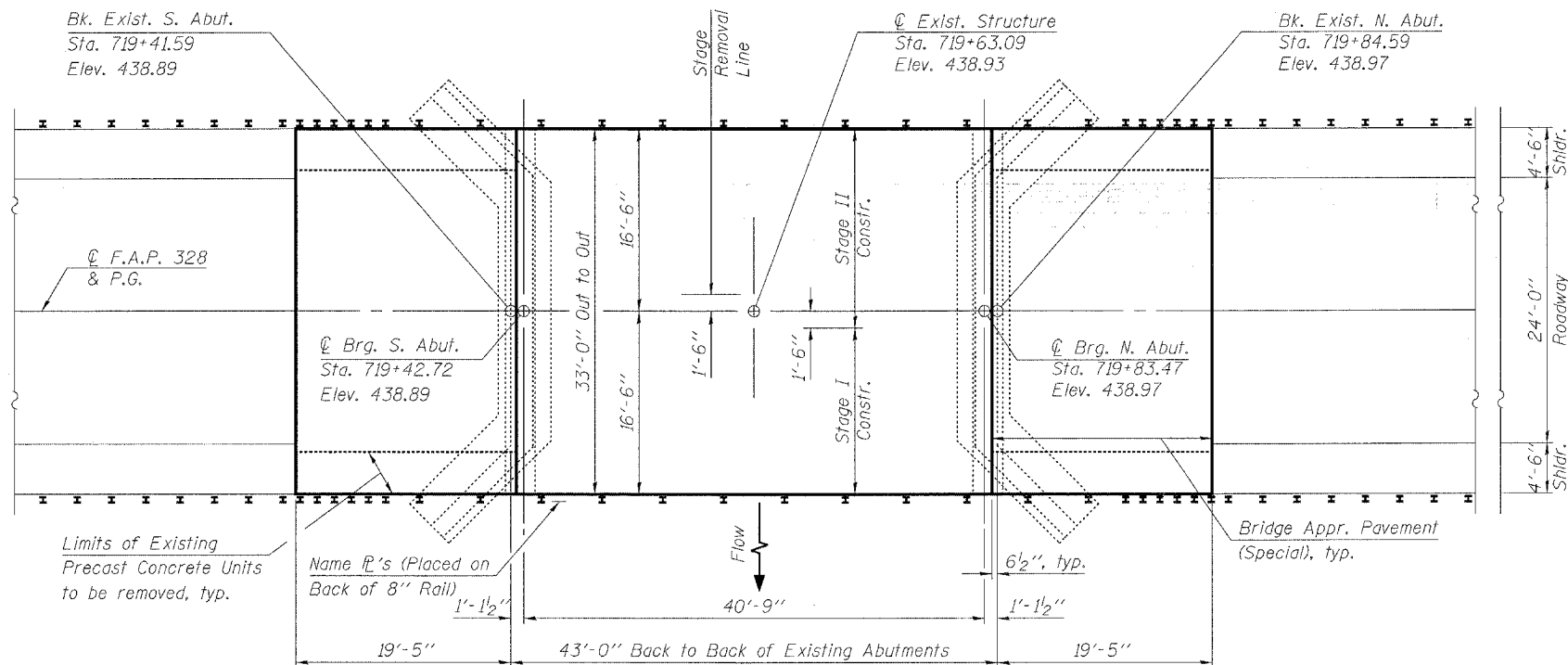
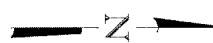
| ITEM  | UNIT    | SUPER | SUB | TOTAL |
|---|---------|-------|-----|-------|
| Hot Mix Asphalt Surface Course, Mix "C", N70                | Ton     | 9     |     | 9     |
| Bridge Approach Pavement (Special)                          | Sq. Yd. |       | 146 | 146   |
| Removal of Existing Superstructures                         | Each    | 1     |     | 1     |
| Concrete Superstructure                                     | Cu. Yd. | 1.6   |     | 1.6   |
| Bridge Deck Grooving  | Sq. Yd. | 144   |     | 144   |
| Protective Coat   | Sq. Yd. | 154   |     | 154   |
| Precast Prestressed Concrete Deck Beams (17" Depth)         | Sq. Ft. | 1,383 |     | 1,383 |
| Reinforcement Bars, Epoxy Coated                            | Pound   | 3,000 | 250 | 3,250 |
| Bar Splicers  | Each    | 42    |     | 42    |
| Steel Railing, Type SM                                      | Foot    | 126   |     | 126   |
| Name Plates   | Each    | 1     |     | 1     |
| Removal of Existing Precast Prestressed Concrete Deck Beams | Sq. Ft. | 252   |     | 252   |
| Removal of Existing Precast Concrete Units                  | Sq. Ft. |       | 299 | 299   |
| Concrete Wearing Surface, 5"                                | Sq. Yd. | 154   |     | 154   |
| Precast Prestressed Concrete Deck Beams (17" Depth) Special | Sq. Ft. | 252   |     | 252   |
| Removing and Re-Erecting Existing Railing                   | Foot    | 82    |     | 82    |

GENERAL PLAN

US 45 OVER ENDSLEY CREEK  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020



ELEVATION



PLAN

-0.48% -0.25% 0.19% 0.47% 0.73%

|                                    |                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| VPI Sta. 719+21.59<br>Elev. 438.94 | VPI Sta. 719+41.59<br>Elev. 438.89 | VPI Sta. 719+84.59<br>Elev. 438.97 | VPI Sta. 720+04.59<br>Elev. 439.06 |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|

PROFILE GRADE

Along @ Roadway

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

STATION 719+63.09  
RE-BUILT 200 BY  
STATE OF ILLINOIS  
FAP RT 328 - SEC (8BR-1)B-1  
LOADING HS20  
STR. NO. 096-0020

NAME PLATE

See Std. 515001

LOADING HS20-44 (New Construction)

No Allowance For future wearing surface.

DESIGN SPECIFICATIONS (New Construction)

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

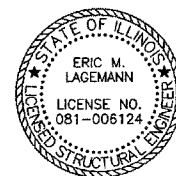
$f'_c = 5,000$  psi (Concrete Wearing Surface)  
 $f'_c = 3,500$  psi (All Other)  
 $f_y = 60,000$  psi (reinforcement)

PRECAST PRESTRESSED UNITS

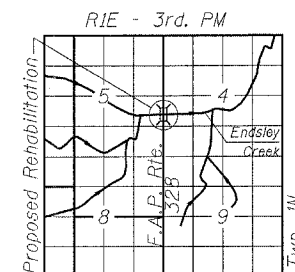
$f'_c = 5,000$  psi  
 $f_{ci} = 4,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)  
 $f_{si} = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)  
ENGINEER OF BRIDGES AND STRUCTURES



Eric Lagemann 4/20/07  
Expires 11/30/2008



LOCATION SKETCH

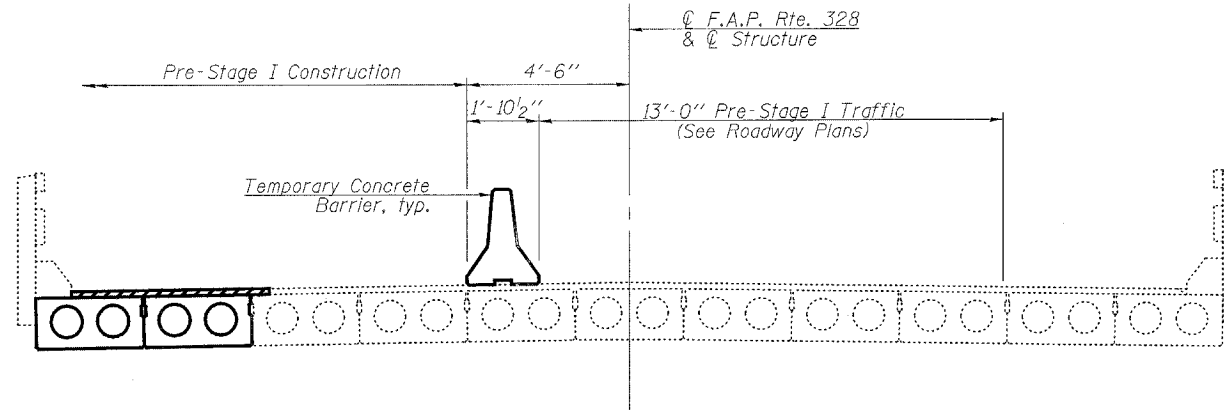
HORNER & SHIFRIN, INC.  
ENGINEERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

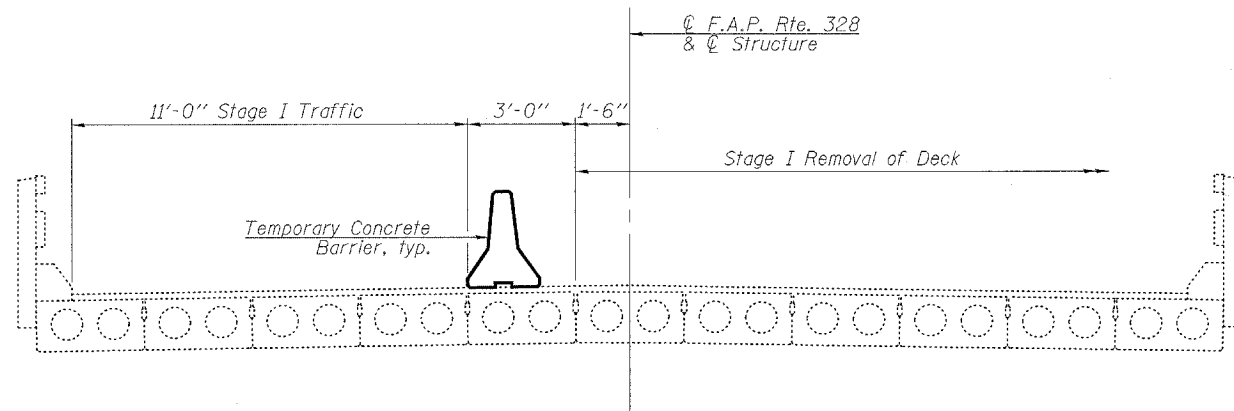
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. |
|-----------------------|-------------|-------------------|--------------|-----------|
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 18        |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |

SHEET NO. 2  
13 SHEETS

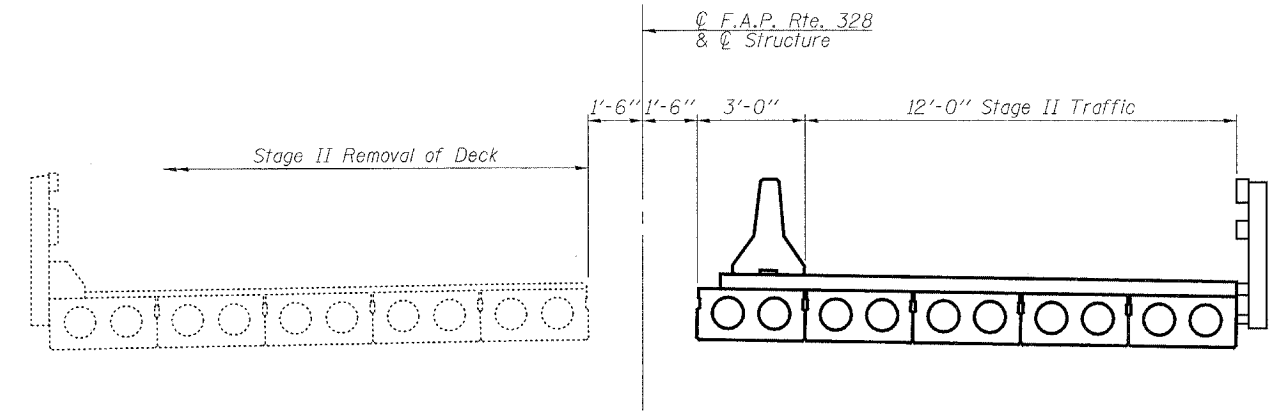
Contract #74041



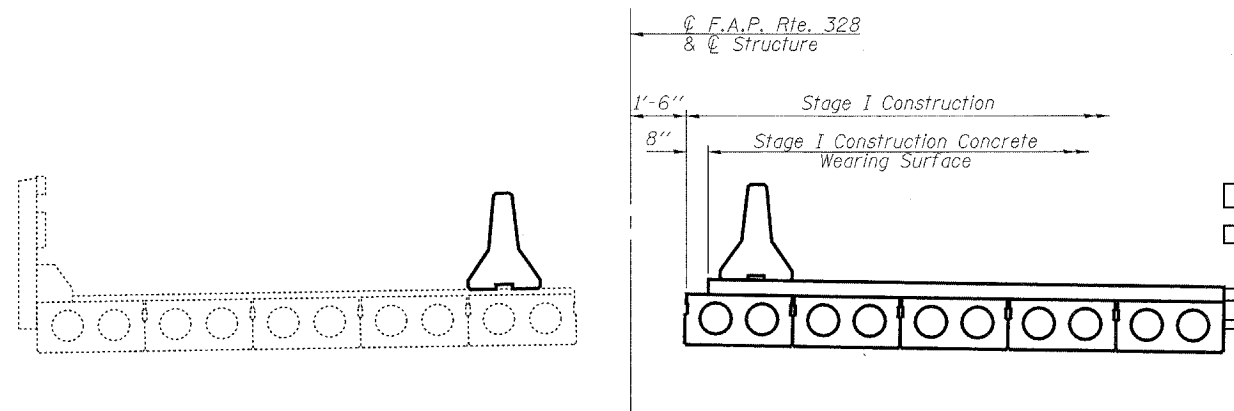
PRE-STAGE I CONSTRUCTION



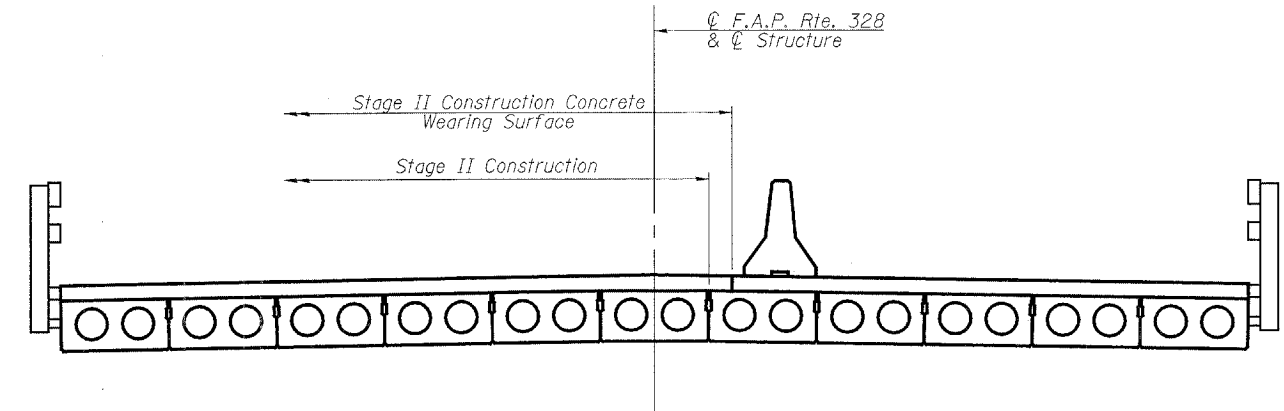
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

Notes:  
All sections are looking North.  
For quantity of Temporary Concrete Barrier, see roadway plans.  
For details of Temporary Concrete Barrier, see sheet 3 of 13.

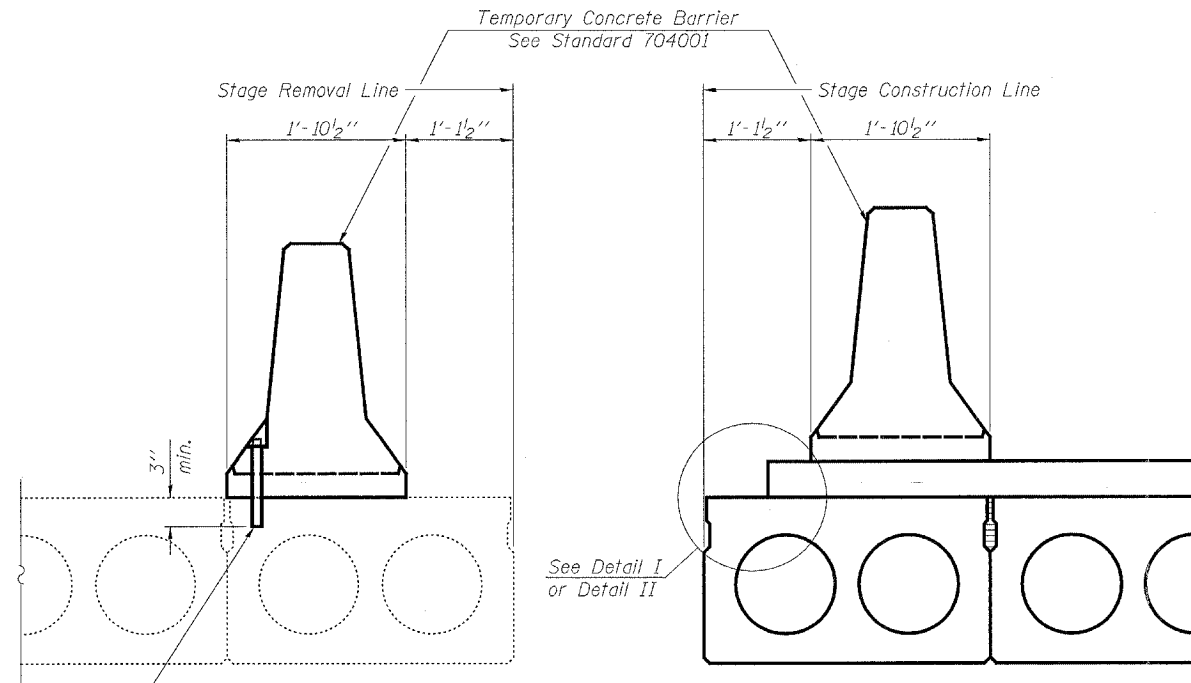
**HORNER & SHIFRIN, INC.**  
ENGINEERS

STAGE CONSTRUCTION DETAILS  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                   |              |           |
|-----------------------|-------------|-------------------|--------------|-----------|
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 19        |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |

Contract #74041



Drill 1/4"  $\phi$  Holes in existing beam for 1"  $\phi$  x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

EXISTING PPC DECK BEAMS

NEW PPC DECK BEAMS

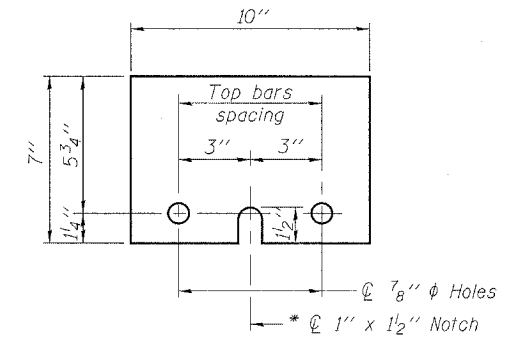
SECTIONS THRU PPC DECK BEAMS

**NOTES**

Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

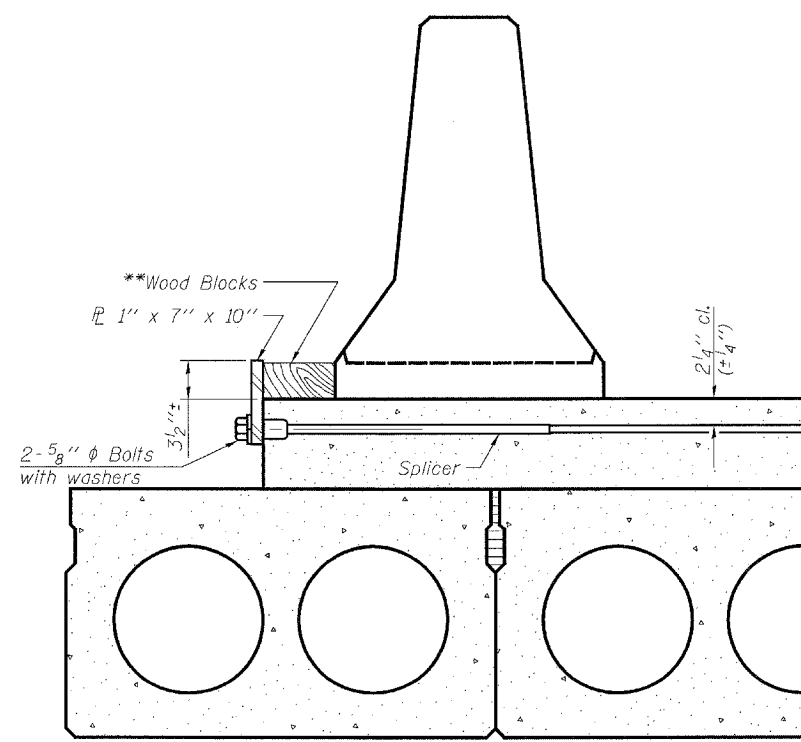
Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction PPC deck beams and all reinforcement bars are in place and the concrete is ready to be placed.

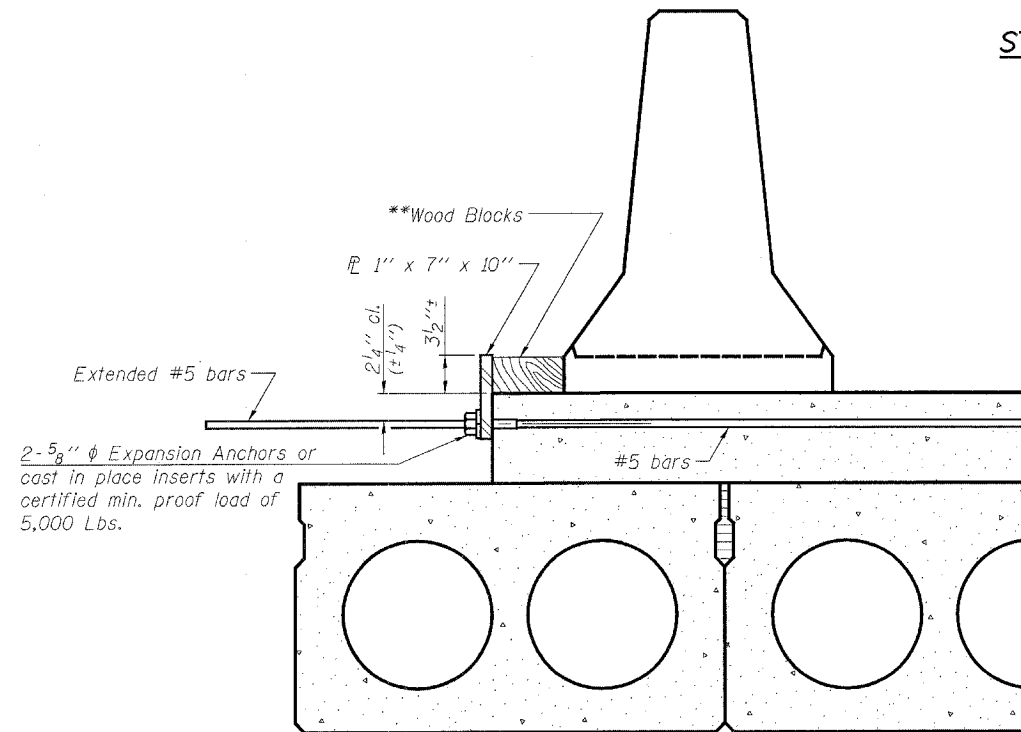


STEEL RETAINER  $\bar{P}$  1" x 7" x 10"

\* Required only with Detail II



DETAIL I



DETAIL II

TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION

F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

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

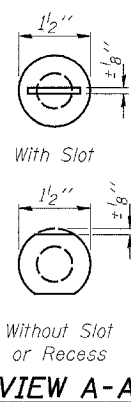
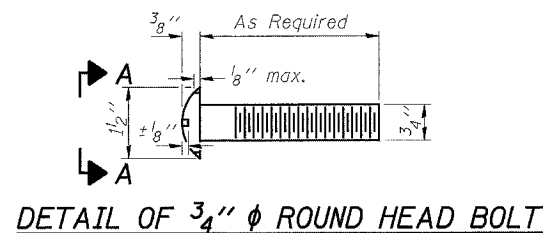
**HORNER & SHIFRIN, INC.**  
ENGINEERS

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

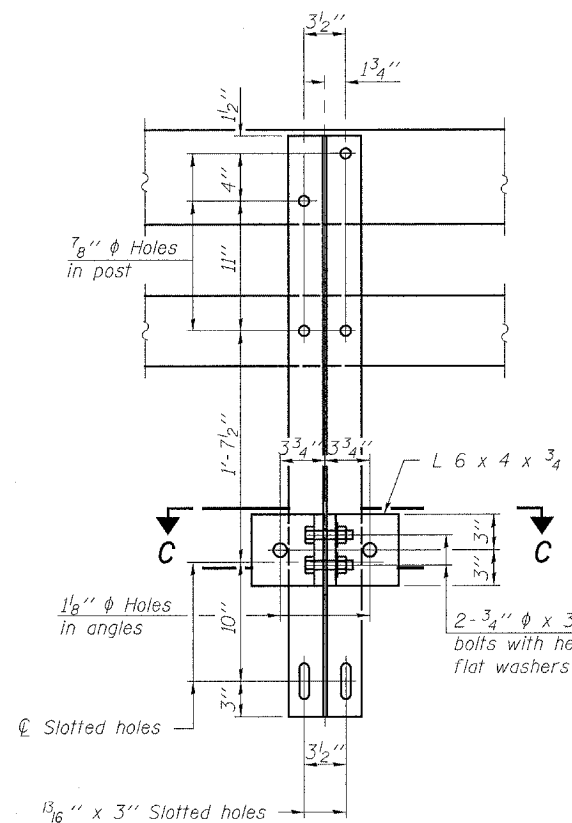
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |        |       |       |             |                  |
|-----------------------|-------------|--------|-------|-------|-------------|------------------|
| ROUTE NO.             | SECTION     | COUNTY | SPANS | SHEET | SHEET NO. 4 |                  |
| F.A.P. 328            | (8BR-D) B-1 | WAYNE  | 39    | 20    |             |                  |
| FED. ROAD DIST. NO. 7 |             |        |       |       | ILLINOIS    | FED. AID PROJECT |

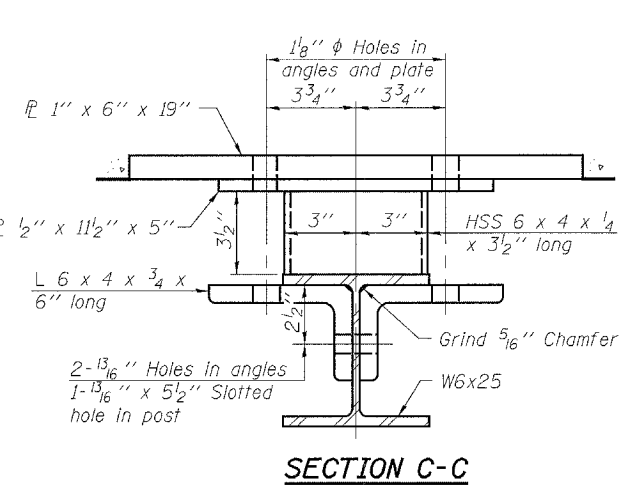
Contract #74041



4-3/4"  $\phi$  x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8"  $\phi$  holes in hollow structural section may be drilled in the field.



SECTION B-B

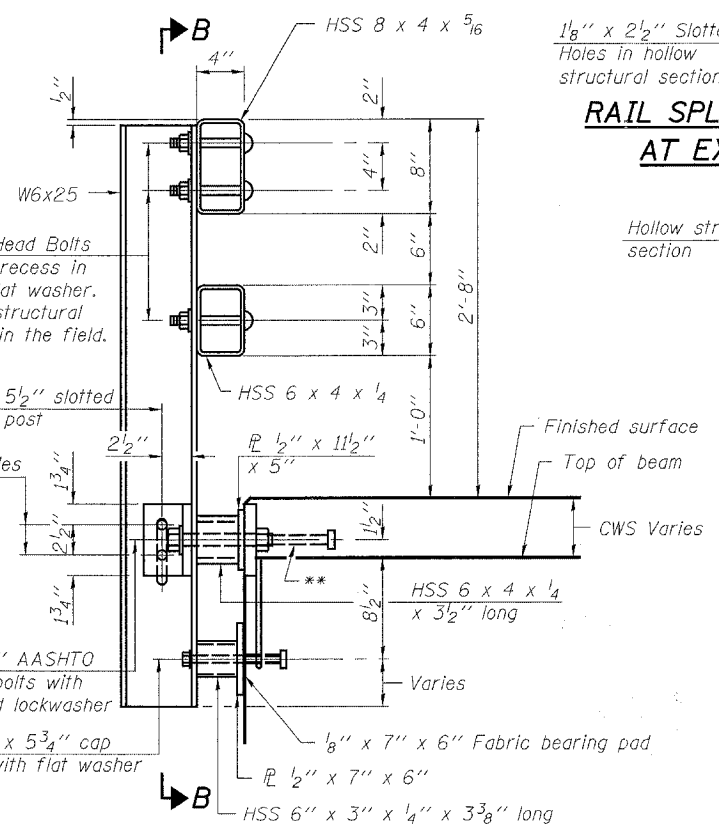


SECTION C-C

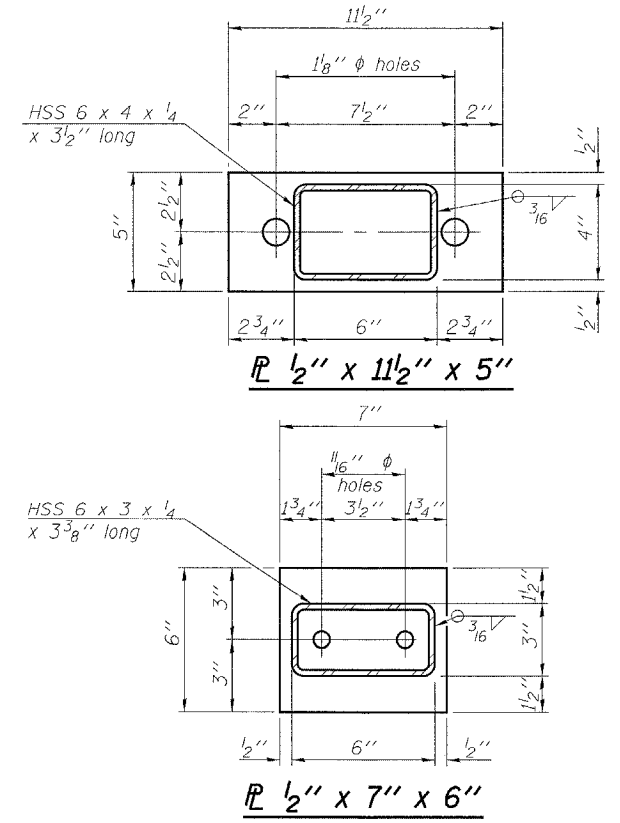
|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

R-34CWS 11-1-06

(6'-3" Maximum Post Spacing) (5" minimum to 7/8" maximum CWS thickness)



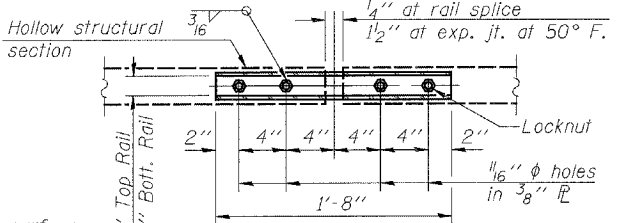
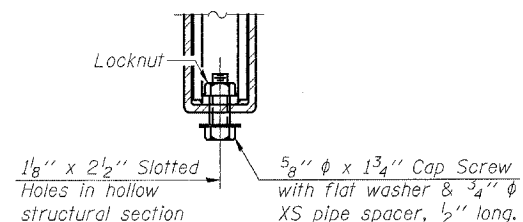
SECTION AT RAIL POST



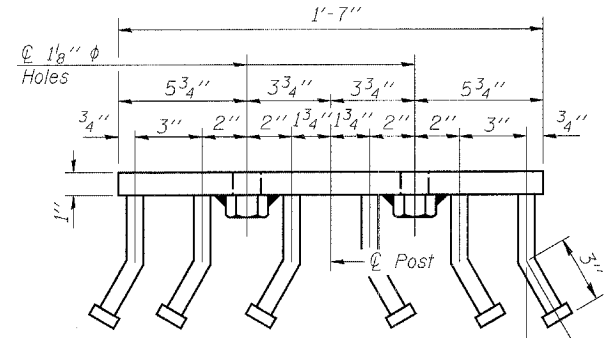
ANCHOR DEVICE

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

RAIL SPLICE CONNECTION AT EXPANSION JT.

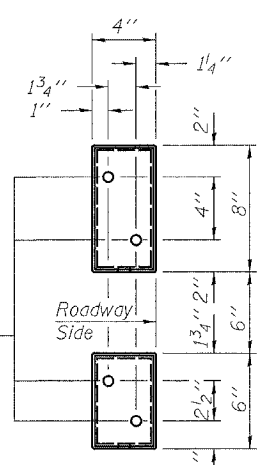


PLAN-BOTT. SPLICE R TYPICAL

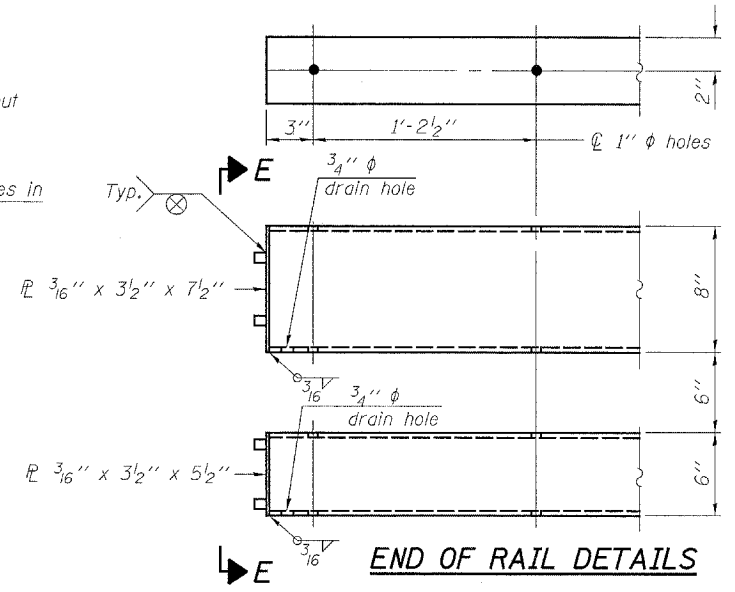


VIEW D-D

SECTION AT RAIL SPLICE



VIEW E-E



END OF RAIL DETAILS

Notes:  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.  
\*\* For rail post spacing see sheets 5 and 6 of 13.

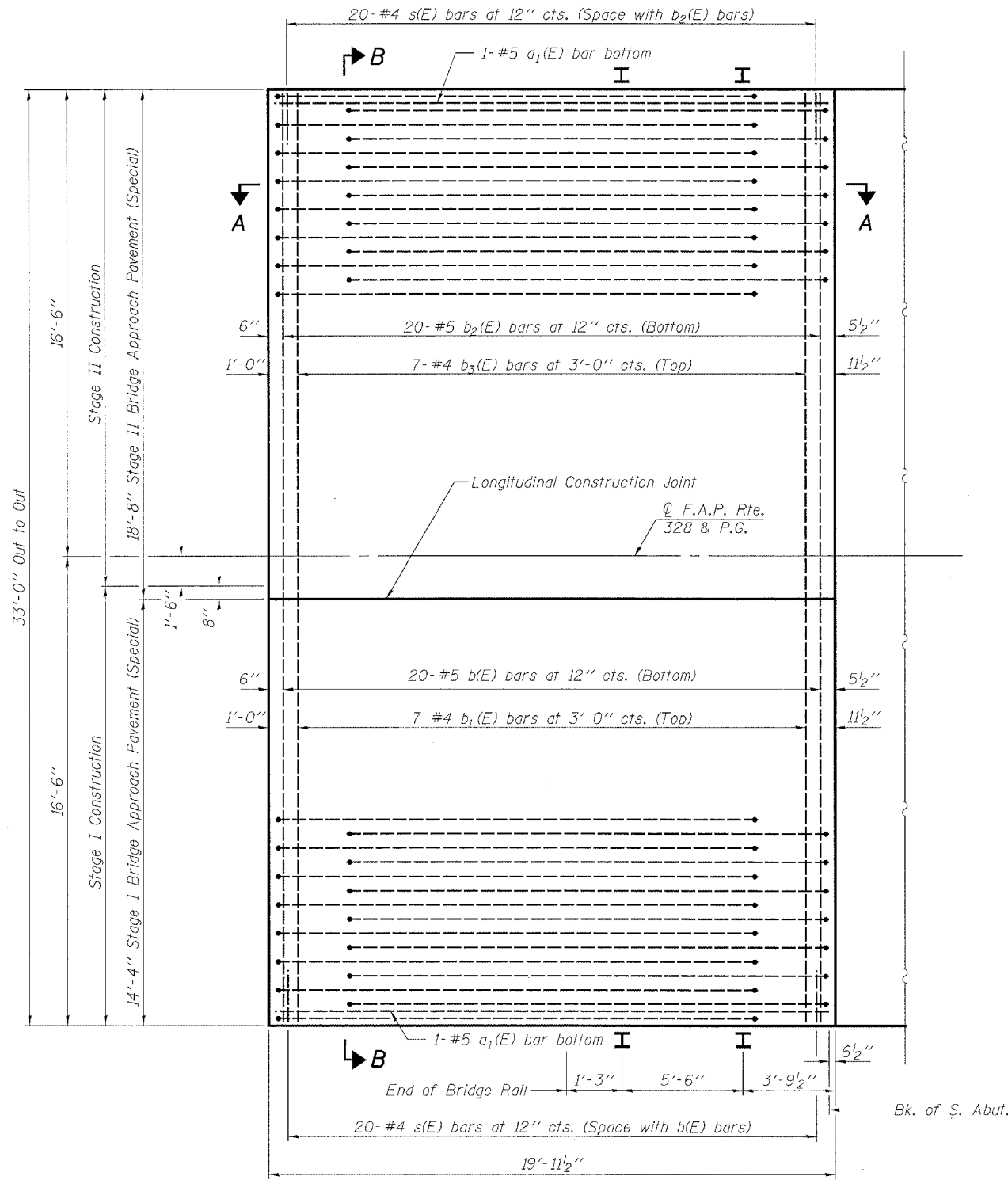
BILL OF MATERIAL

| Item                   | Unit | Quantity |
|------------------------|------|----------|
| Steel Railing, Type SM | Foot | 126      |

STEEL RAILING, TYPE SM  
WITH CONCRETE WEARING SURFACE  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

HORNER & SHIFRIN, INC.  
ENGINEERS

Contract #74041

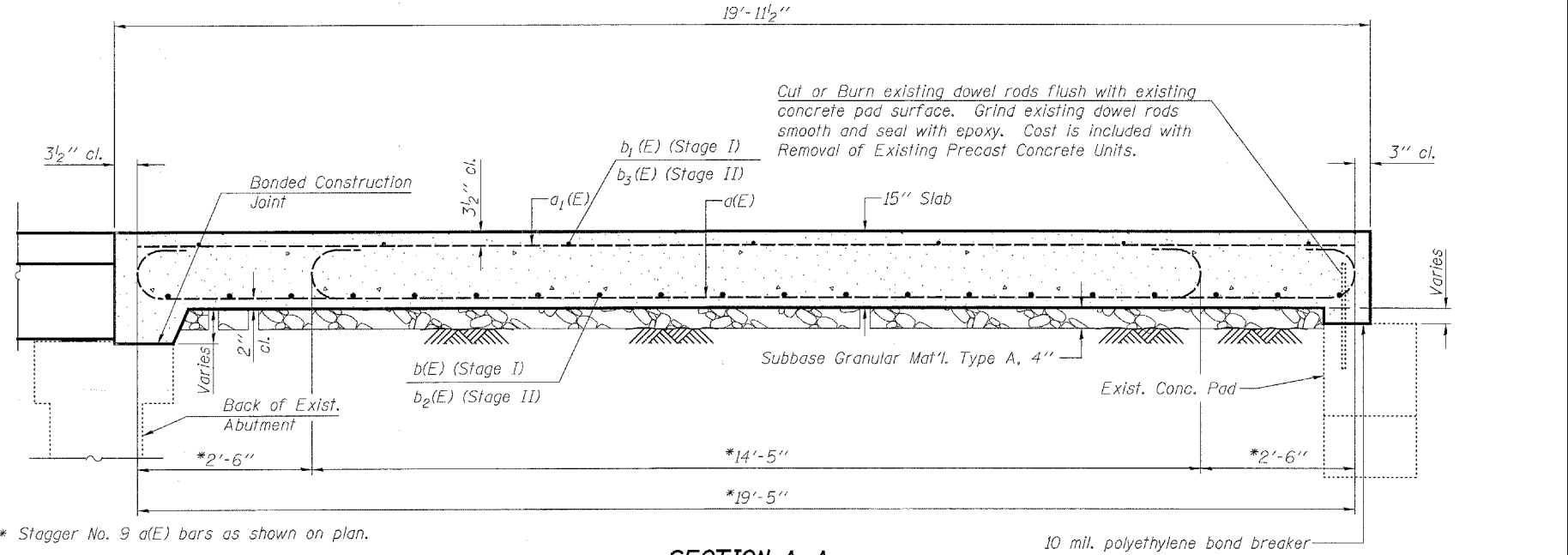


**PLAN**

(Approach Beam at N. Abut. is mirror image of S. Abut.)

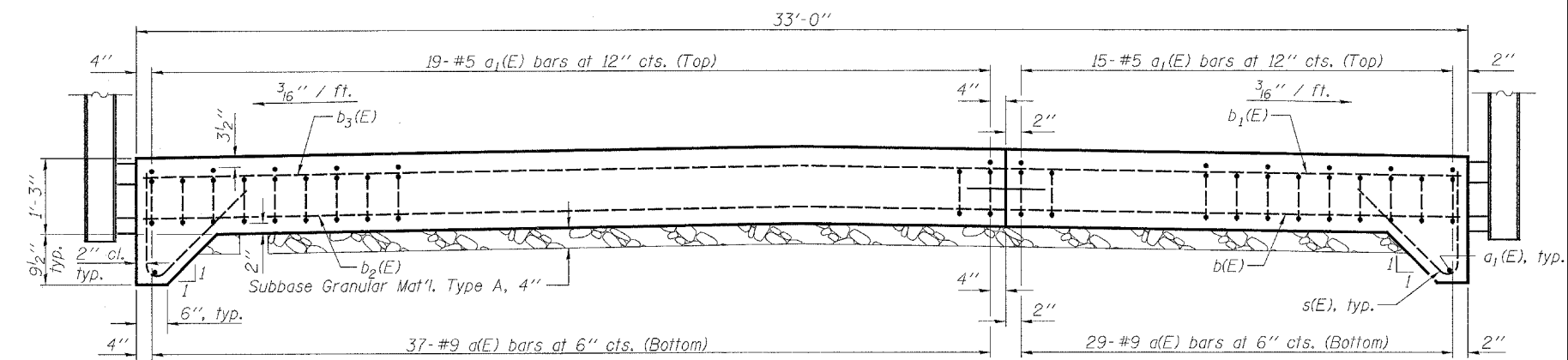
|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

Notes:  
Removal of existing approach beams are included in Removal of Existing Precast Concrete Units.  
See roadway plans for Approach Slab Removal quantity.  
Removal of Existing Precast Concrete Units and Existing Bridge Approach Pavement shall occur during its respective stage construction and prior to placement of the new deck beams.  
See Special Provisions for Bridge Approach Pavement (Special).  
See sheet 4 of 13 for rail anchor device to be cast in approach pavement.



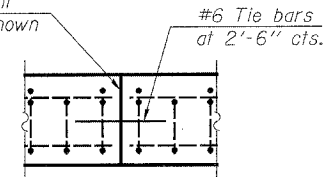
**SECTION A-A**

\* Stagger No. 9 a(E) bars as shown on plan.

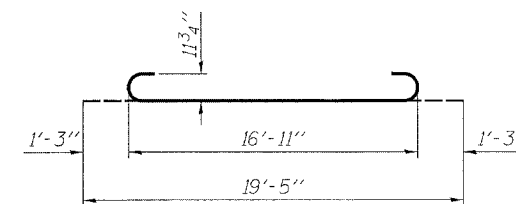


**SECTION B-B**

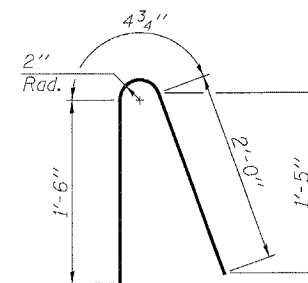
Longitudinal Construction Joint in accordance with details shown on Standard 420001



**LONGITUDINAL CONSTRUCTION JOINT**



**BAR a(E)**



**BAR s(E)**

**BAR LIST**

| Bar   | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| a(E)  | 132 | #9   | 19'-5" | U     |
| a1(E) | 72  | #5   | 19'-5" | —     |
| b(E)  | 40  | #5   | 14'-0" | —     |
| b1(E) | 14  | #4   | 14'-0" | —     |
| b2(E) | 40  | #5   | 18'-4" | —     |
| b3(E) | 14  | #4   | 18'-4" | —     |
| s(E)  | 80  | #4   | 3'-11" | N     |

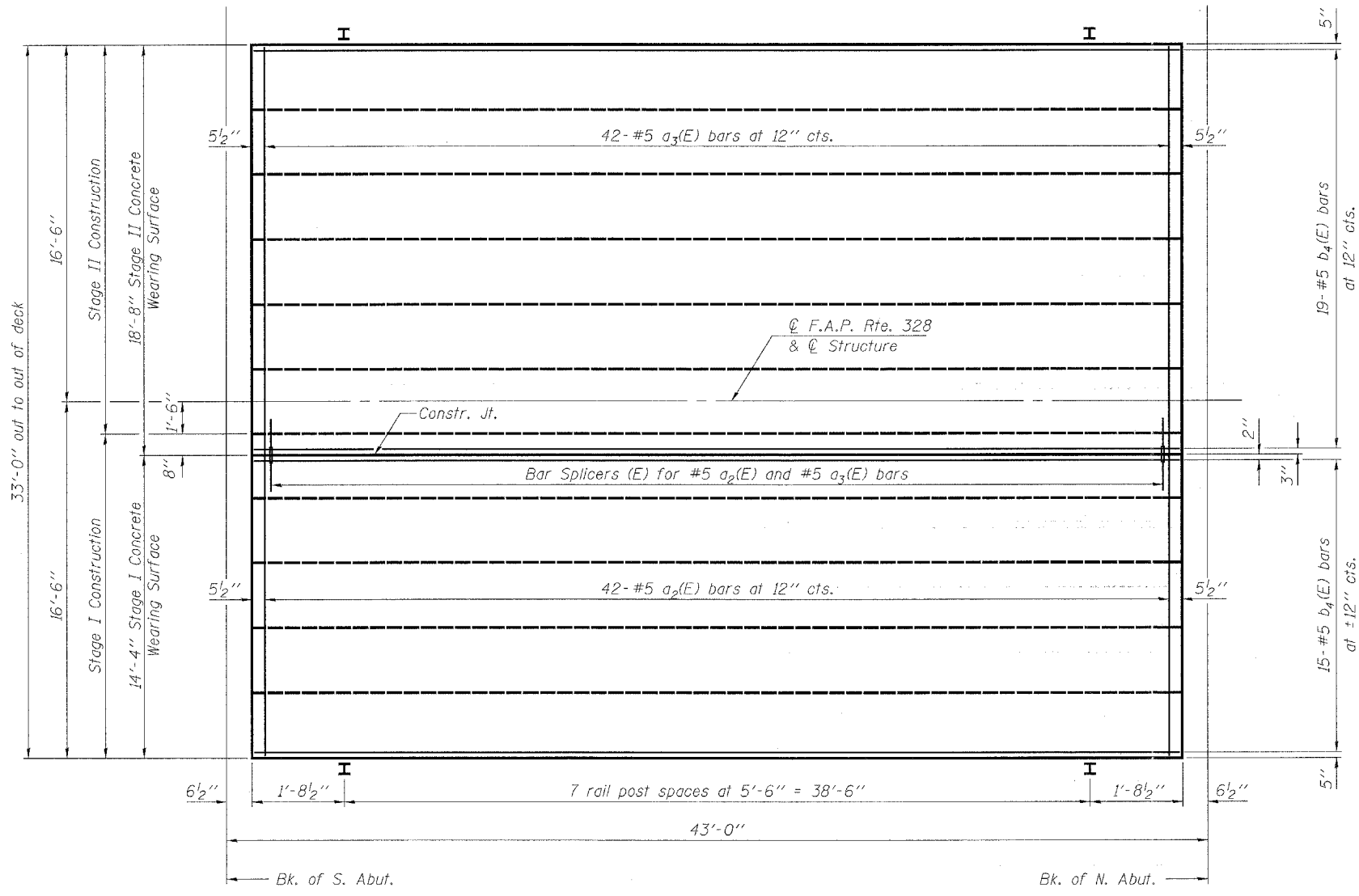
**BILL OF MATERIAL**

| Item                                       | Unit    | Total |
|--|---------|-------|
| Bridge Approach Pavement (Special)         | Sq. Yd. | 146   |
| Removal of Existing Precast Concrete Units | Sq. Ft. | 299   |

**BRIDGE APPROACH PAVEMENT (SPECIAL)**  
**F.A.P. ROUTE 328 - SECTION (8BR-1)B-1**  
**WAYNE COUNTY**  
**STATION 719+63.09**  
**STRUCTURE NO. 096-0020**

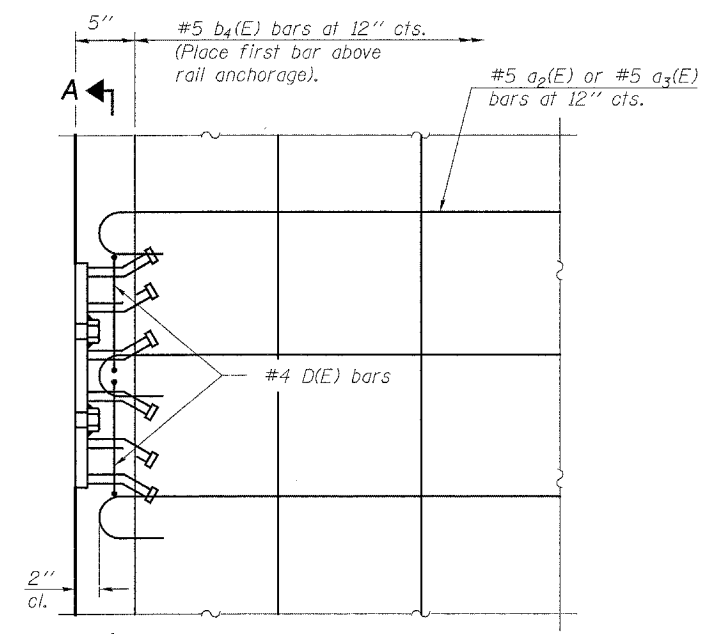
**HORNER & SHIFRIN, INC.**  
**ENGINEERS**

Contract #74041



PLAN

Notes:  
Rail spacing the same on both sides of the bridge.  
See sheet 5 of 13 for end of bridge rail location.



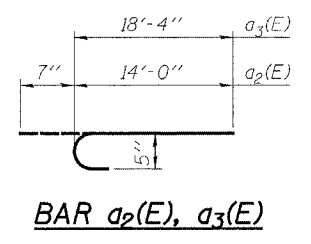
SECTION A-A

PLAN

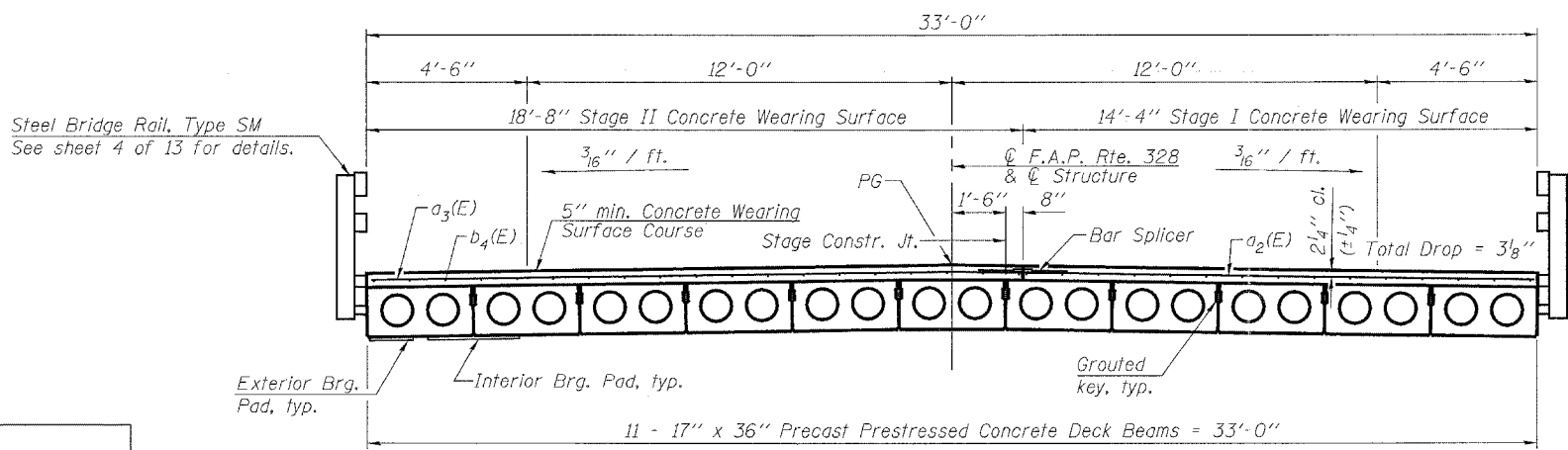
Notes:  
The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

**SUPERSTRUCTURE  
BILL OF MATERIALS**

| Bar                              | No. | Size | Length  | Shape   |       |
|----------------------------------|-----|------|---------|---------|-------|
| a <sub>2</sub> (E)               | 42  | #5   | 14'-7"  | U       |       |
| a <sub>3</sub> (E)               | 42  | #5   | 18'-11" | U       |       |
| b <sub>4</sub> (E)               | 34  | #5   | 41'-7"  | —       |       |
| Reinforcement Bars, Epoxy Coated |     |      |         | Pound   | 2,940 |
| Concrete Wearing Surface         |     |      |         | Sq. Yd. | 154   |



BAR a<sub>2</sub>(E), a<sub>3</sub>(E)



CROSS SECTION

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

**HORNER &  
SHIFRIN, INC.  
ENGINEERS**

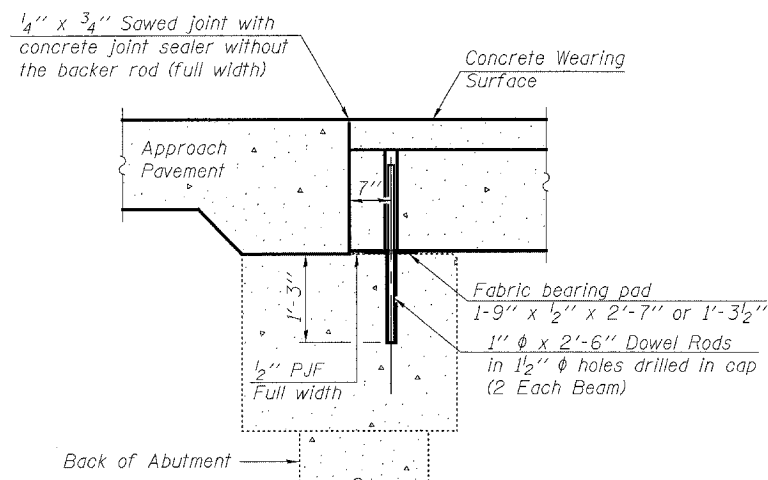
**SUPERSTRUCTURE DETAILS**  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                  |             |           |
|-----------------------|-------------|------------------|-------------|-----------|
| ROUTE NO.             | SECTION     | COUNTY           | SPR. SHEETS | SHEET NO. |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE            | 39          | 23        |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT |             |           |

SHEET NO. 7  
13 SHEETS

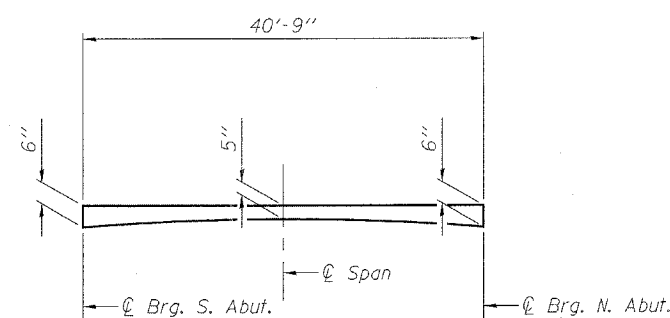
Contract #74041



**SECTION THRU ABUTMENT**

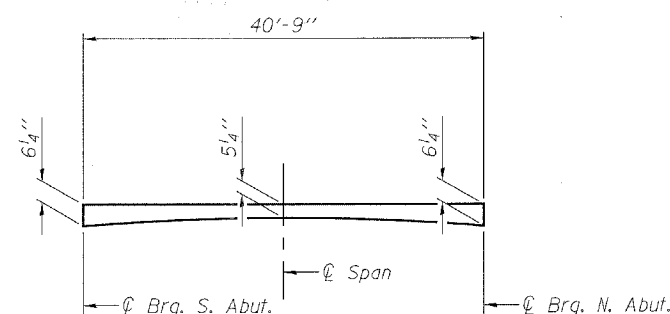
**Notes:**

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.  
All horizontal dimensions are at right angles to beam ends.  
See sheet 8 of 13 for bearing pad details.



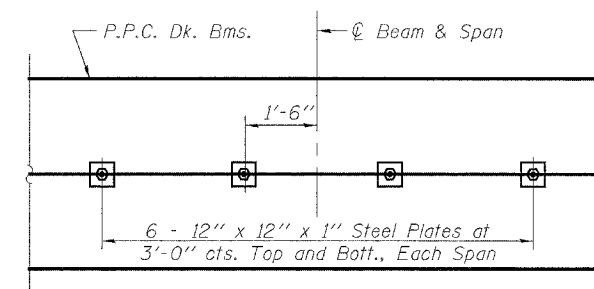
**CONCRETE WEARING SURFACE COURSE PROFILE**

(Concrete wearing surface course along edge of beams and at stage construction joint)

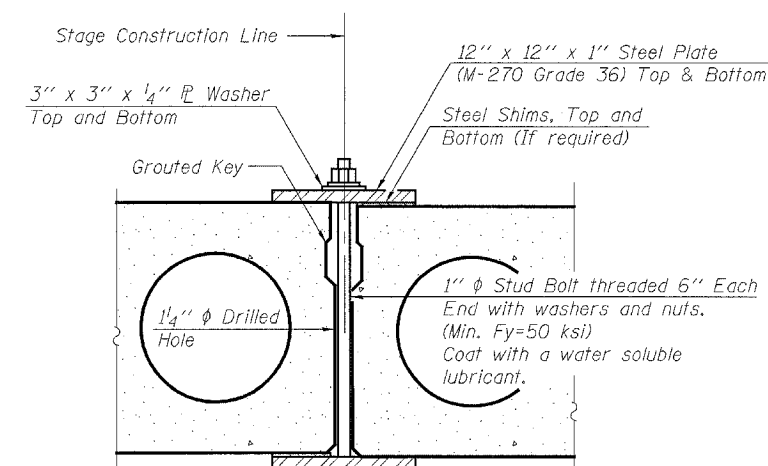


**CONCRETE WEARING SURFACE COURSE PROFILE**

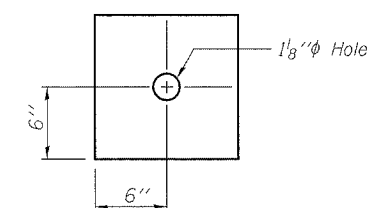
(Concrete wearing surface course along  $\phi$  Roadway)



**PLAN**



**SECTION**



**CLAMPING PLATE**

**SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.**

Cost included with "Precast Prestressed Concrete Deck Beams".  
See Stage Construction Details for traffic lanes.

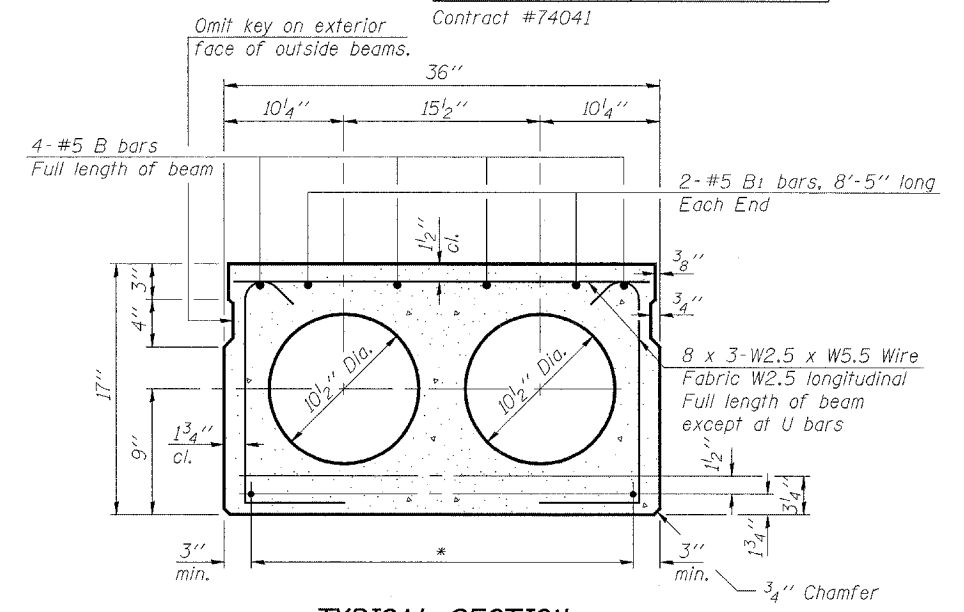
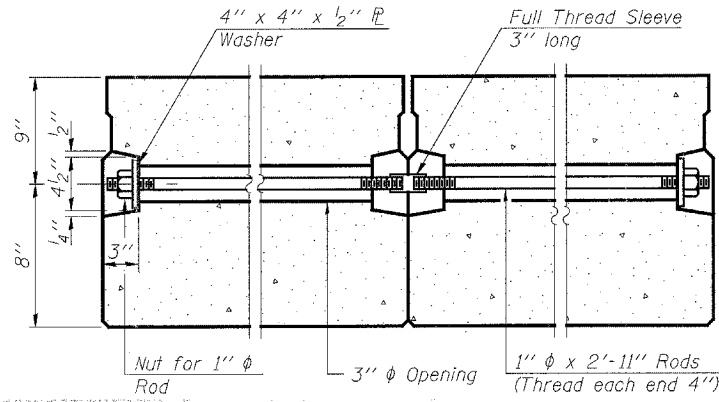
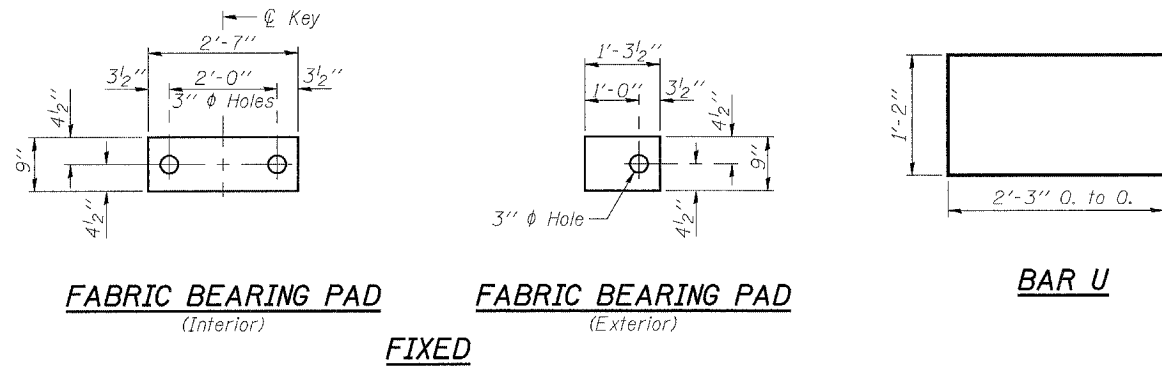
|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

**SUPERSTRUCTURE DETAILS**  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

**HORNER & SHIFRIN, INC.**  
ENGINEERS

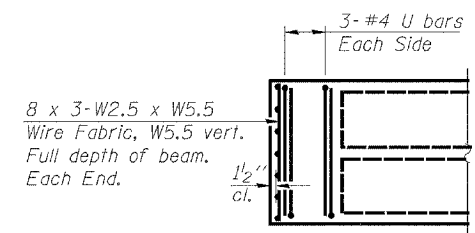
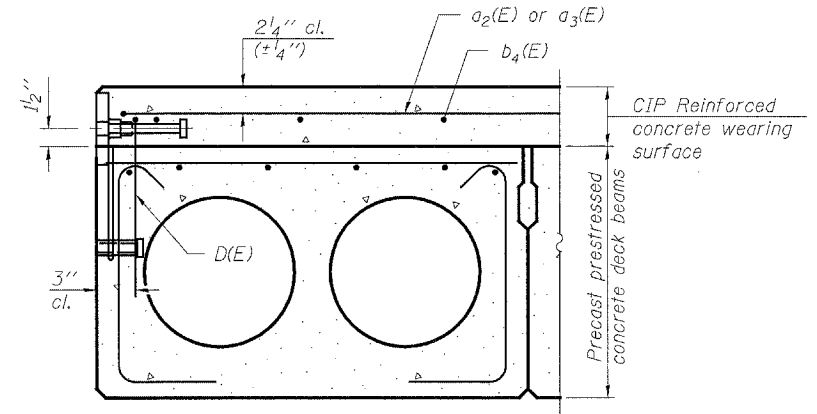
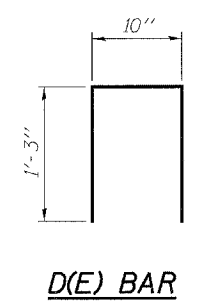
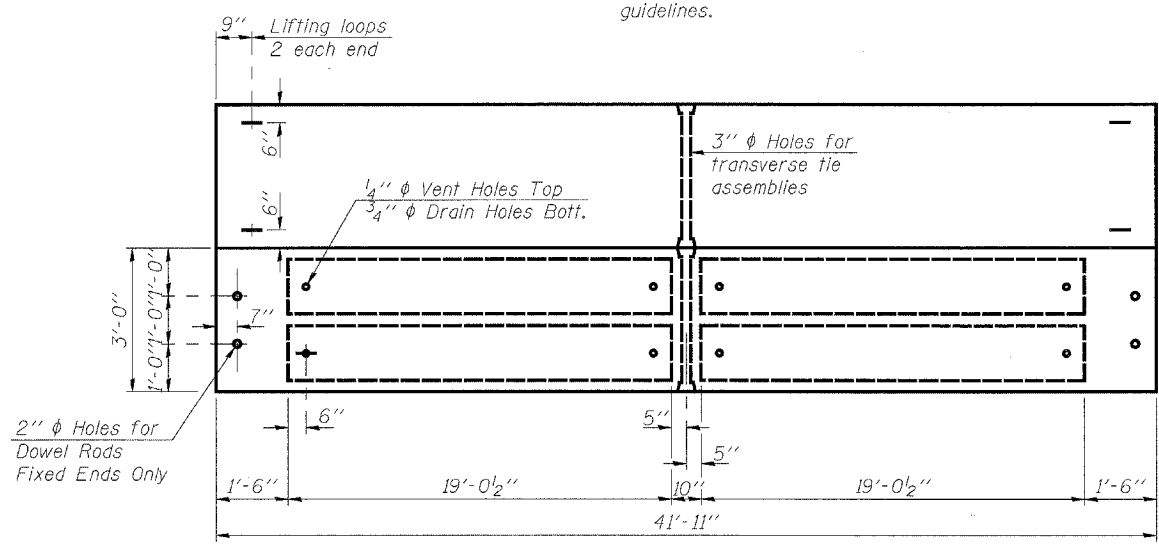
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                   |              |           |                          |
|-----------------------|-------------|-------------------|--------------|-----------|--------------------------|
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 8<br>13 SHEETS |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 24        |                          |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |                          |



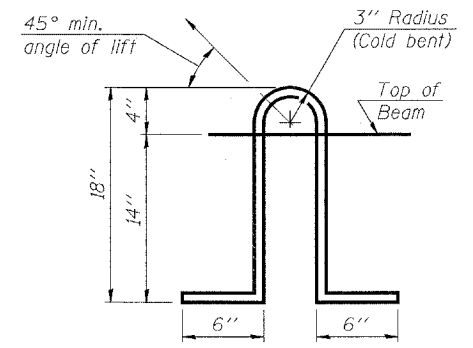
- \*Transverse Strand Placement Guidelines**
1. Place strands symmetrically about centerline of beam.
  2. The minimum distance from center to center of strands in all directions shall be 2".
  3. The minimum clearance from strand to dowel hole shall be 1/2".
  4. The minimum clearance from strand to void shall be 1 1/2".

Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



**PLAN**

**END PLAN**



**LIFTING LOOP DETAIL**

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2 - 1/2" phi - 270 ksi strands, as shown. The 1" phi rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. See sheet 4 of 13 for rail anchor device to be cast in precast beams. See sheet 6 of 13 for spacing of rail post. See sheet 7 of 13 for Shear Key Clamping Details at Stage Const. Jt.

**BILL OF MATERIAL**

| Item  | Unit    | Total |
|---|---------|-------|
| Precast Prestressed Concrete Deck Beams (17" Depth) | Sq. Ft. | 1383  |

**SUPERSTRUCTURE DETAILS**

F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020



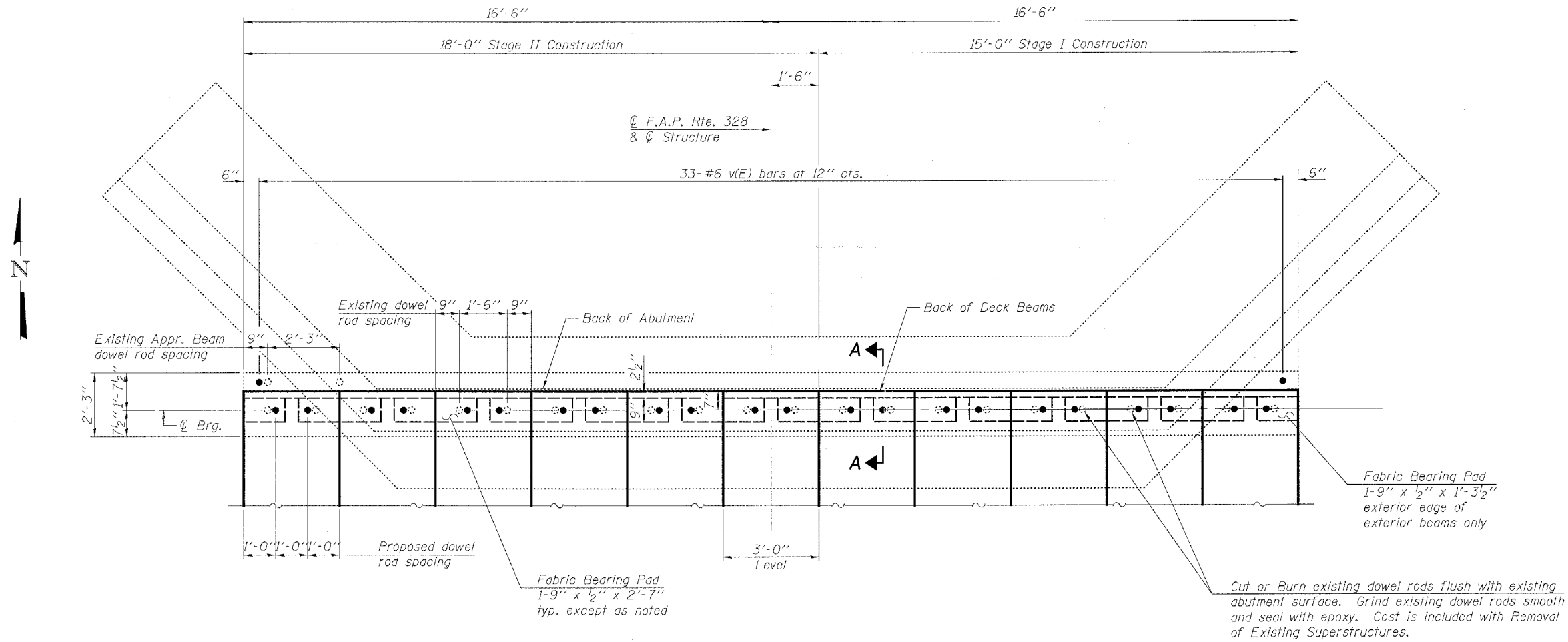
|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

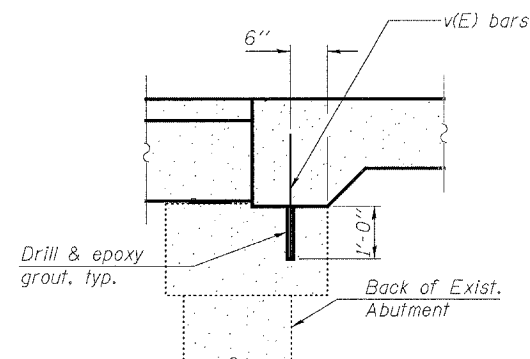
|                       |             |                   |              |           |                          |
|-----------------------|-------------|-------------------|--------------|-----------|--------------------------|
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 9<br>13 SHEETS |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 25        |                          |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |                          |

Contract #74041



**PLAN**

(N. Abutment Shown, S. Abutment is a mirror image)  
(Concrete wearing surface not shown)



**SECTION A-A**

**BAR LIST**

| Bar                                 | No. | Size | Length | Shape |
|-------------------------------------|-----|------|--------|-------|
| v(E)                                | 66  | #6   | 2'-6"  | —     |
| Reinforcement Bars,<br>Epoxy Coated |     |      | Pound  | 250   |

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

**HORNER & SHIFRIN, INC.**  
ENGINEERS

**ABUTMENT DETAILS**  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. |
|-----------------------|-------------|-------------------|--------------|-----------|
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 26        |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |

SHEET NO. 10  
13 SHEETS

Contract #74041

**NOTES**

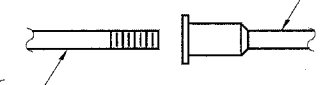
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

| BAR SPLICER ASSEMBLIES |                                 |                              |                                       |
|------------------------|---------------------------------|------------------------------|---------------------------------------|
| Bar Size to be Spliced | Splicer Rod or Dowel Bar Length | Strength Requirements        |                                       |
|                        |                                 | Min. Capacity kips - tension | Min. Pull-Out Strength kips - tension |
| #4                     | 1'-8"                           | 14.7                         | 7.9                                   |
| #5                     | 2'-0"                           | 23.0                         | 12.3                                  |
| #6                     | 2'-7"                           | 33.1                         | 17.4                                  |
| #7                     | 3'-5"                           | 45.1                         | 23.8                                  |
| #8                     | 4'-6"                           | 58.9                         | 31.3                                  |
| #9                     | 5'-9"                           | 75.0                         | 39.6                                  |
| #10                    | 7'-3"                           | 95.0                         | 50.3                                  |
| #11                    | 9'-0"                           | 117.4                        | 61.8                                  |

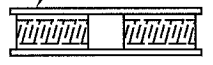
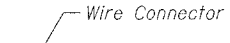
The diameter of this part is equal or larger than the diameter of bar spliced.



ROLLED THREAD DOWEL BAR



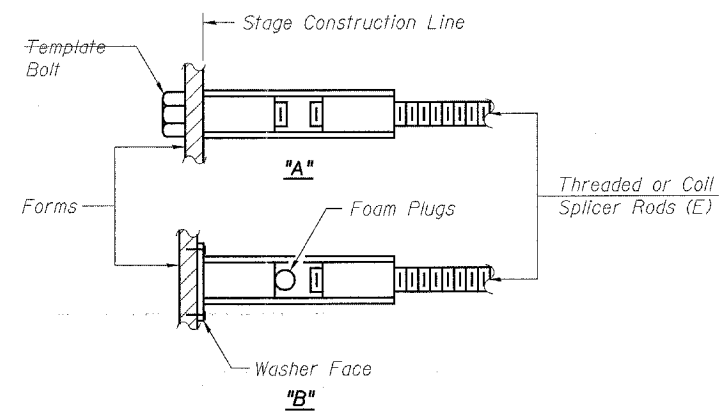
\*\* ONE PIECE



WELDED SECTIONS

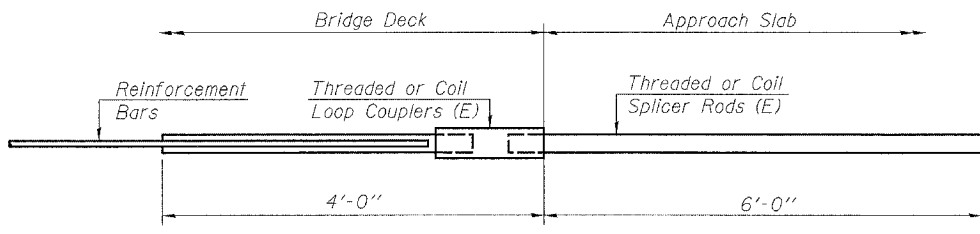
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



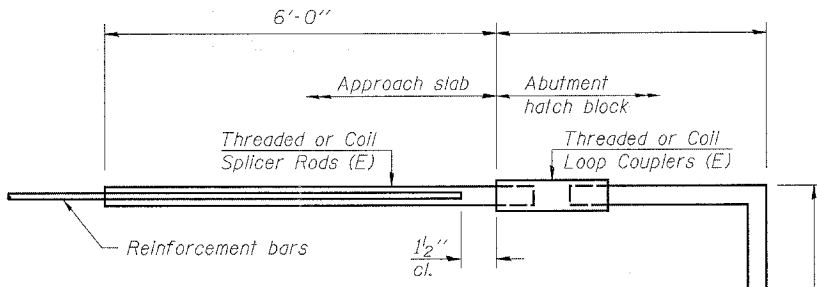
**INSTALLATION AND SETTING METHODS**

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



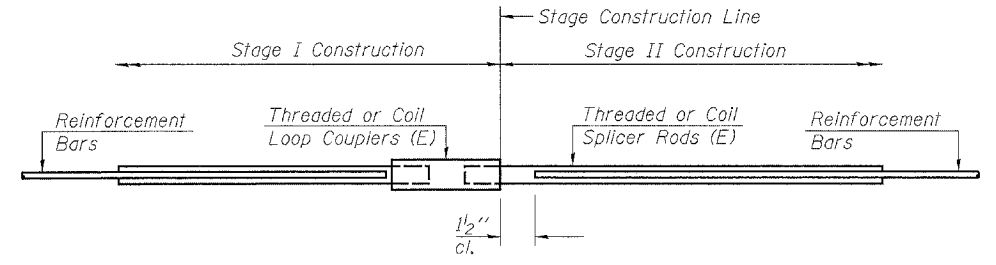
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

|  |
|--|
| Bar Splicer for #5 bar                       |
| Min. Capacity = 23.0 kips - tension          |
| Min. Pull-out Strength = 12.3 kips - tension |
| No. Required =                               |



**FOR STUB ABUTMENTS**

|  |
|--|
| Bar Splicer for #5 bar                       |
| Min. Capacity = 23.0 kips - tension          |
| Min. Pull-out Strength = 12.3 kips - tension |
| No. Required =                               |



**STANDARD**

| Bar Size | No. Assemblies Required | Location                 |
|----------|-------------------------|--------------------------|
| #5       | 42                      | Concrete Wearing Surface |

**BAR SPLICER ASSEMBLY DETAILS**  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

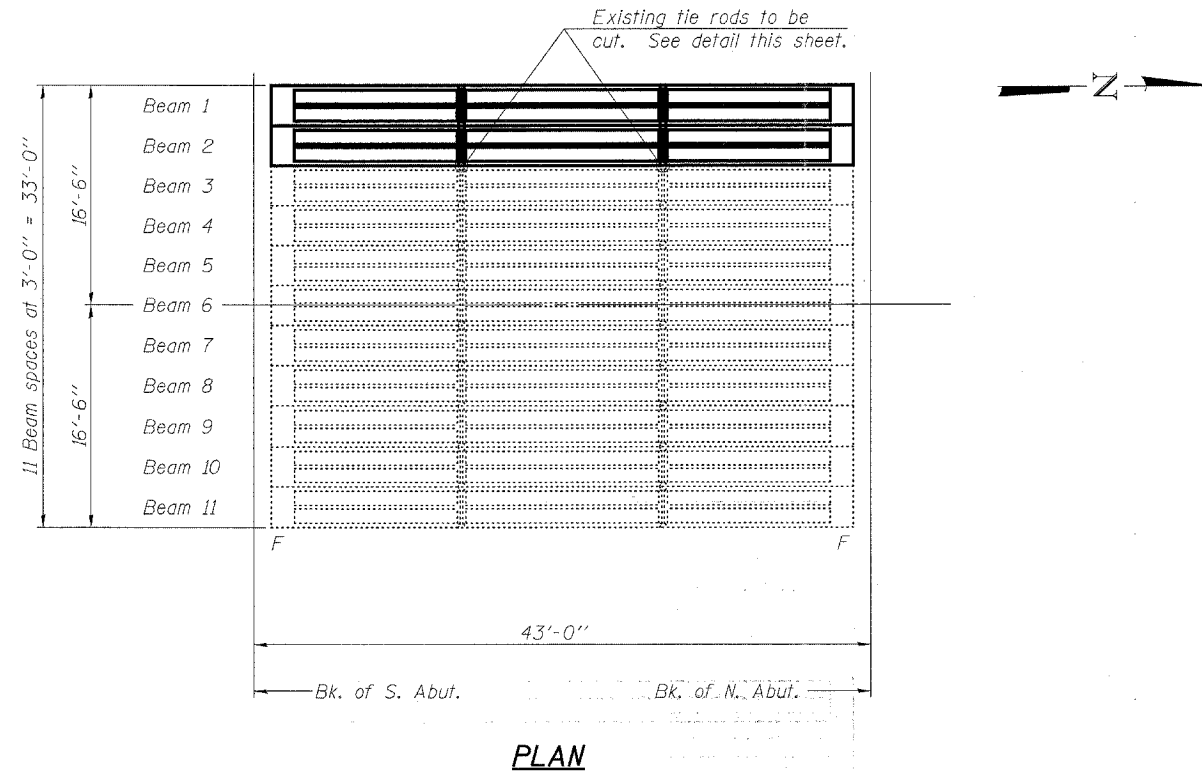


|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | JJD |
| CHECKED  | EML |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                  |              |           |              |
|-----------------------|-------------|------------------|--------------|-----------|--------------|
| ROUTE NO.             | SECTION     | COUNTY           | TOTAL SHEETS | SHEET NO. | SHEET NO. 11 |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE            | 39           | 27        | 13 SHEETS    |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT |              |           |              |

Contract #74041



**GENERAL NOTES**

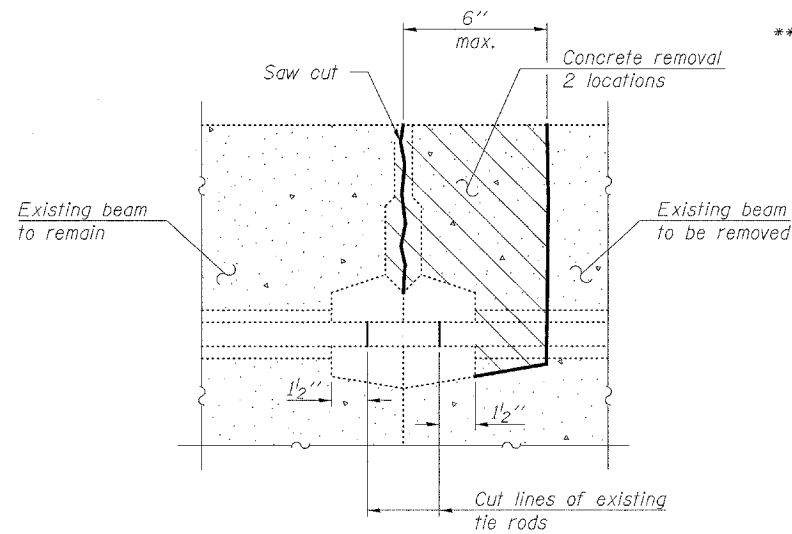
The thickness of Bituminous overlay shall match the existing thickness and shall be adjusted for the new expected beam camber.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

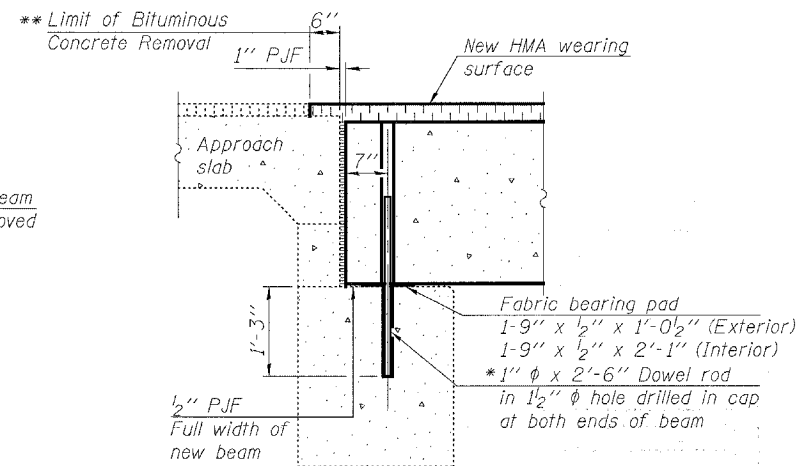
The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. This work shall be performed by the producer and included with the cost of the beam.

The contractor is advised that the existing Precast Prestressed Concrete Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the beam.

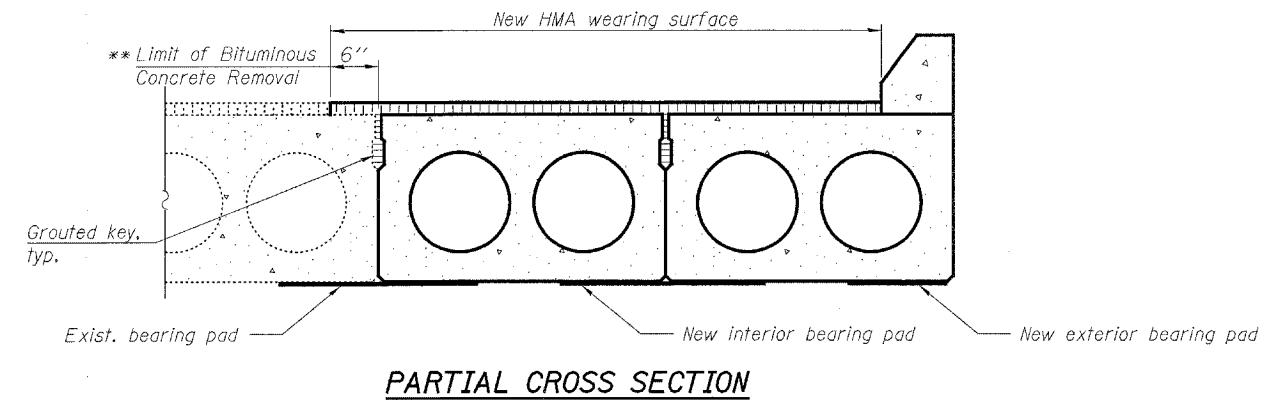
Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".



**BEAM REMOVAL DETAIL AT TRANSVERSE TIES**



**SECTION THRU ABUTMENTS**



**PARTIAL CROSS SECTION**

**BILL OF MATERIAL**

| Item   | Unit    | Total |
|--|---------|-------|
| Removal of Existing P.P.C. Deck Beams        | Sq. Ft. | 252   |
| Hot Mix Asphalt Surface Course, Mix "C", N70 | Ton     | 9     |

- \* Exist. dowel rods shall be cut off and ground flush with cap. New dowel rods to be grouted after beam is in place and allowed to cure (24 hrs. min.) prior to grouting the shear key.
- \*\* The cost of bituminous concrete removal shall be included with Removal of Existing PPC Deck Beams.

**DESIGN STRESSES**

**PRECAST PRESTRESSED UNITS**

$f'_c = 5,000$  psi  
 $f'_{ci} = 4,000$  psi  
 $f'_s = 270,000$  psi (1/2"  $\phi$  low lax. strands)  
 $f_{st} = 201,960$  psi (1/2"  $\phi$  low lax. strands)

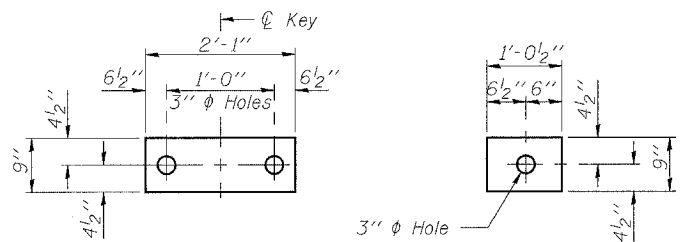
**HORNER & SHIFRIN, INC. ENGINEERS**

**PRE-STAGE I DETAILS I**  
**F.A.P. ROUTE 328 - SECTION (8BR-1)B-1**  
**WAYNE COUNTY**  
**STATION 719+63.09**  
**STRUCTURE NO. 096-0020**

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | KLH |
| CHECKED  | EML |

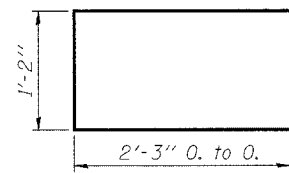
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                   |              |           |              |
|-----------------------|-------------|-------------------|--------------|-----------|--------------|
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 12 |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 28        | 13 SHEETS    |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |              |

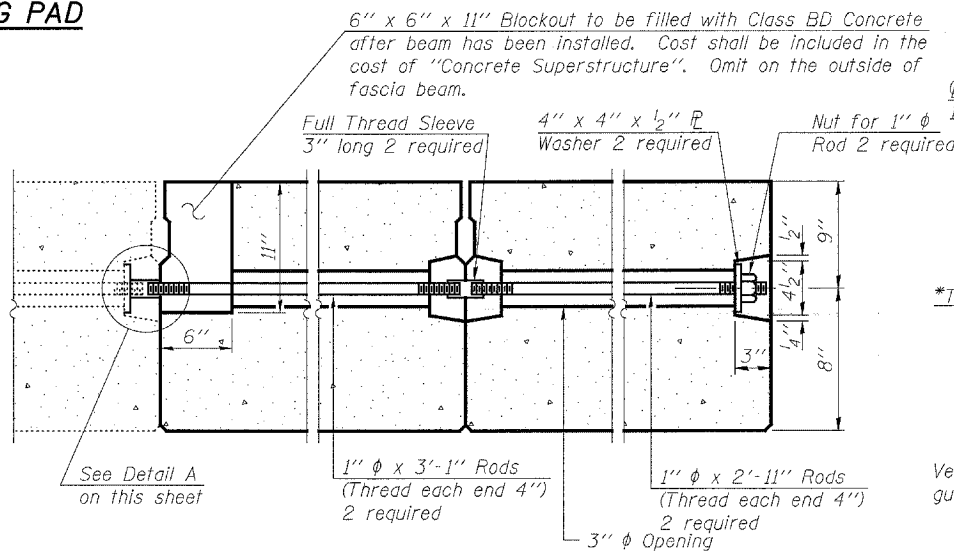
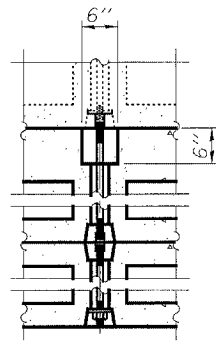


**FABRIC BEARING PAD** (Interior) **FABRIC BEARING PAD** (Exterior)

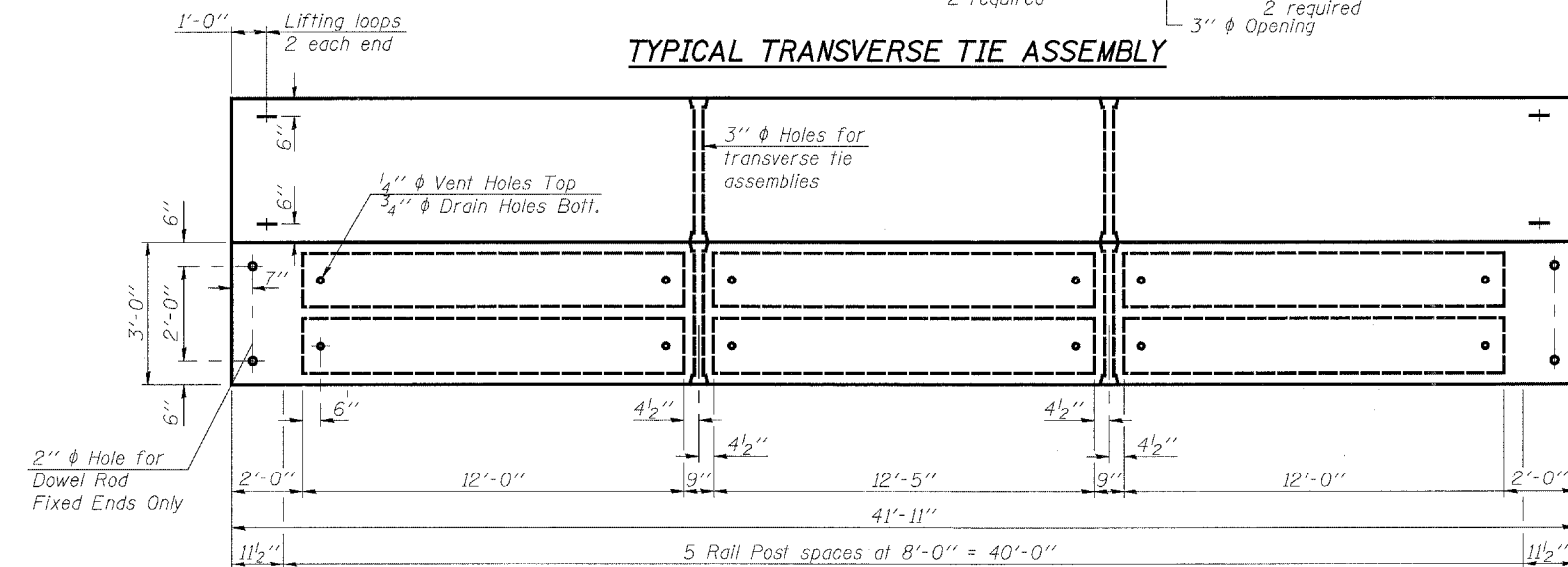
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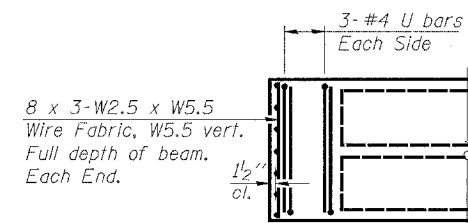
**BAR U**



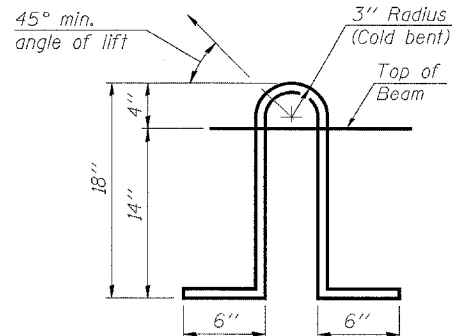
**TYPICAL TRANSVERSE TIE ASSEMBLY**



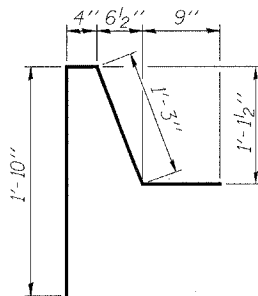
**PLAN**



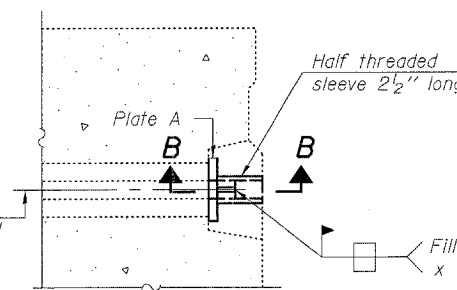
**END PLAN**



**LIFTING LOOP DETAIL**



**BAR D**

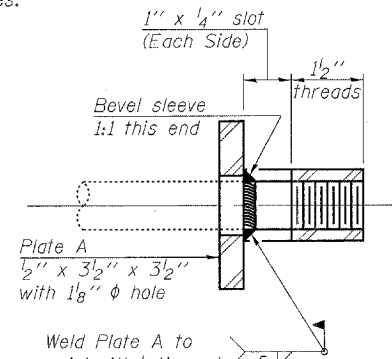


**DETAIL A**

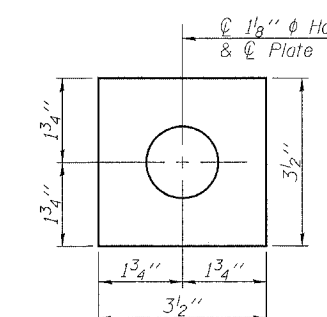
\*Transverse Strand Placement Guidelines

1. Place strands symmetrically about centerline of beam.
2. The minimum distance from center to center of strands in all directions shall be 2".
3. The minimum clearance from strand to dowel hole shall be 1/2".
4. The minimum clearance from strand to void shall be 1/2".

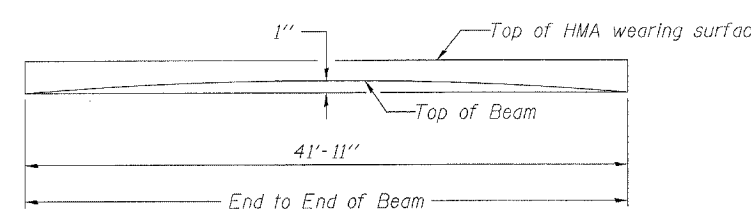
Vertical placement of strands shall not be adjusted to satisfy the above guidelines.



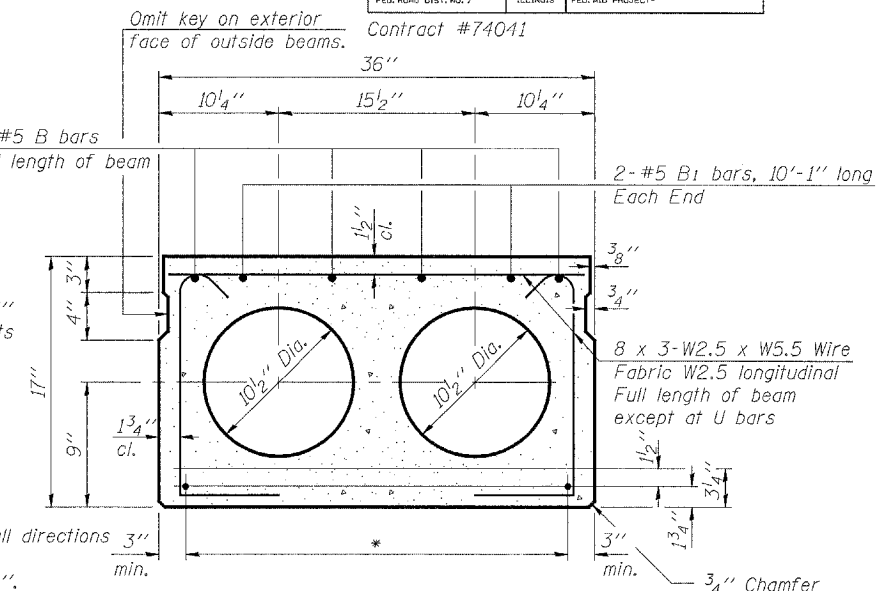
**SECTION B-B**



**PLATE A**

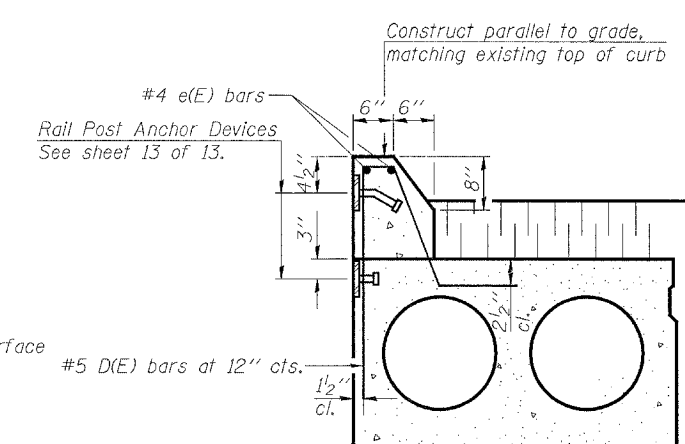


**ANTICIPATED INITIAL CAMBER DIAGRAM**



**TYPICAL SECTION**

1/2"  $\phi$  Strands, Each Strand Stressed to 30,900 Lbs.  
9-Strands 1 3/4" up, 4-Strands 3/4" up, 2-Strands 12" up



**SECTION THRU CURB**

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 2-1/2"  $\phi$ -270 ksi strands, as shown. The 1"  $\phi$  rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60. The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key. Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Required Release Strength, f'ci, shall be 4,000 p.s.i. See sheet 13 of 13 for rail anchor device to be cast in precast beams. See sheet 7 of 13 for Shear Key Clamping Details at Stage Const. Jf.

**BILL OF MATERIAL**

| Bar   | No. | Size | Length  | Shape |
|---|-----|------|---------|-------|
| e(E)  | 2   | #4   | 41'-8"  |       |
| Concrete Superstructure                                     |     |      | Cu. Yd. | 1.6   |
| Reinforcement Bars, Epoxy Coated                            |     |      | Pound   | 60    |
| Precast Prestressed Concrete Deck Beams (17" Depth) Special |     |      | Sq. Ft. | 252   |

**PRE-STAGE I DETAILS II**  
**F.A.P. ROUTE 328 - SECTION (8BR-1)B-1**  
**WAYNE COUNTY**  
**STATION 719+63.09**  
**STRUCTURE NO. 096-0020**

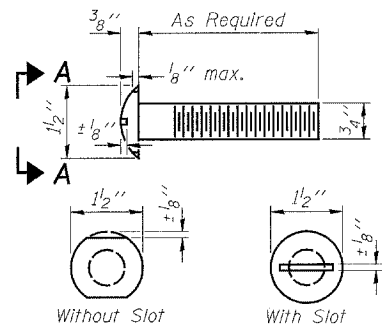
**HORNER & SHIFRIN, INC.**  
**ENGINEERS**

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | KLH |
| CHECKED  | EML |

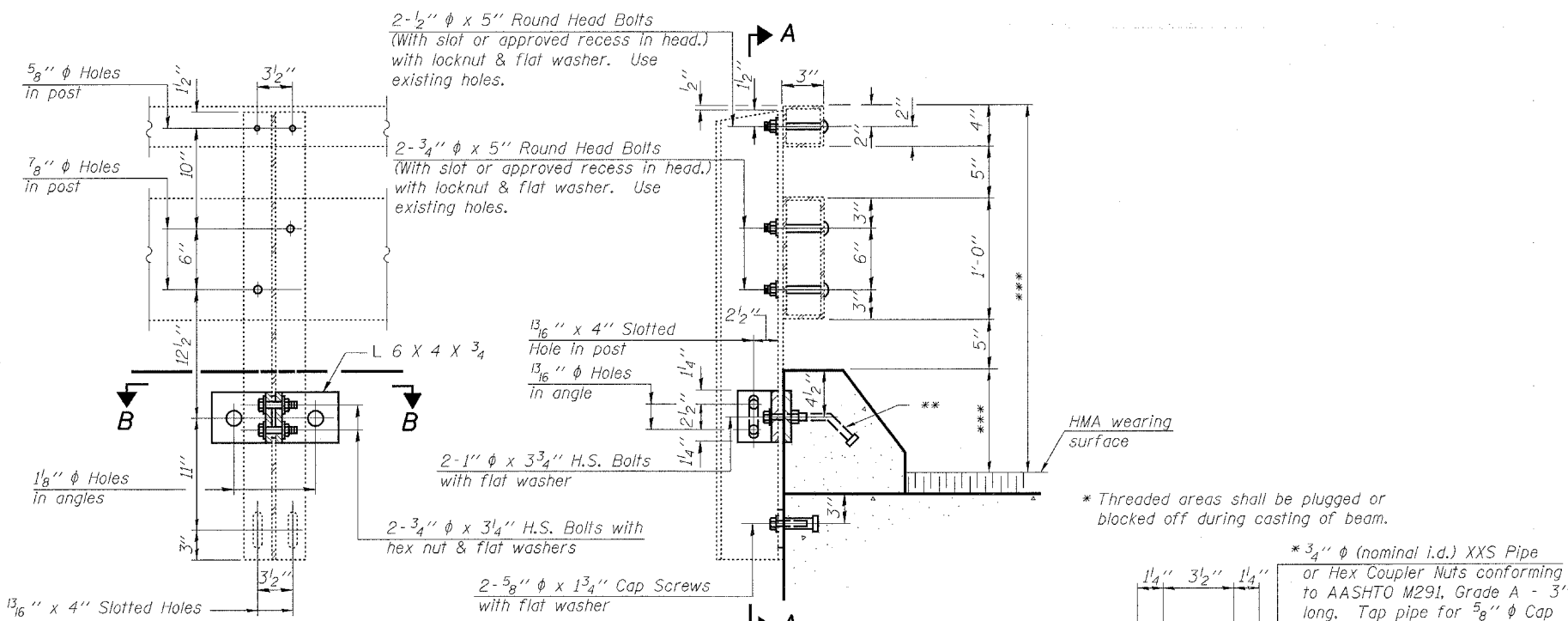
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

|                       |             |                   |              |           |              |
|-----------------------|-------------|-------------------|--------------|-----------|--------------|
| ROUTE NO.             | SECTION     | COUNTY            | TOTAL SHEETS | SHEET NO. | SHEET NO. 13 |
| F.A.P. 328            | (8BR-1) B-1 | WAYNE             | 39           | 29        | 13 SHEETS    |
| FED. ROAD DIST. NO. 7 | ILLINOIS    | FED. AID PROJECT- |              |           |              |

Contract #74041

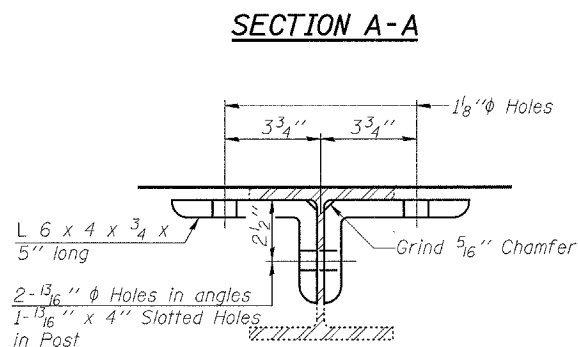


VIEW A-A  
ROUND HEAD BOLT

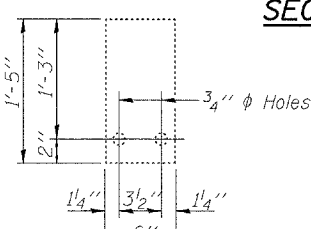


SECTION A-A

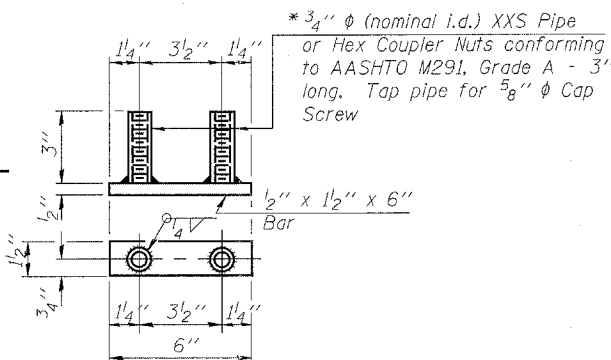
SECTION AT RAIL POST



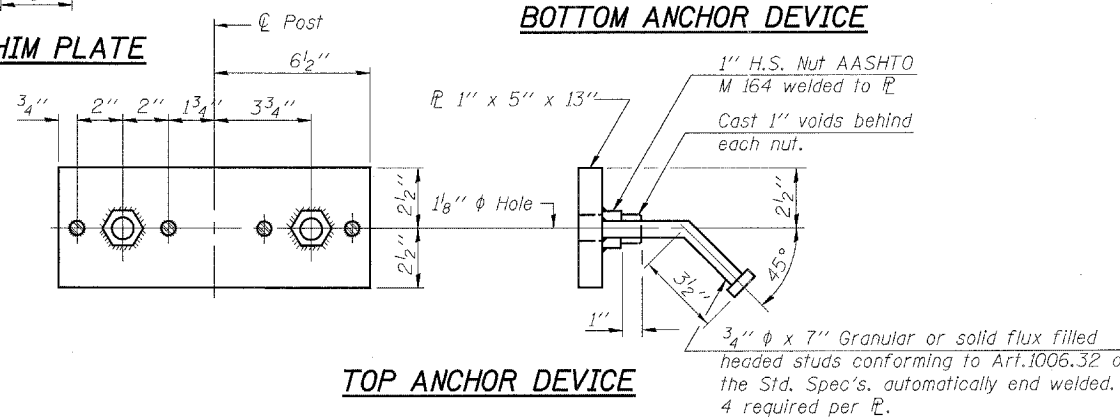
SECTION B-B



1/4" SHIM PLATE



BOTTOM ANCHOR DEVICE



TOP ANCHOR DEVICE

Notes:

- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- For multi-span bridges, existing 1/4" x 6" x 1'-5" galvanized steel shims shall be re-used to align rail between adjacent spans.
- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- \*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.
- \*\*\* Match height of existing Bridge Railing.
- Cost of reinstalling existing posts and rails, anchor devices and all accessories shall be included with Removing and Re-Erecting Existing Railing.
- For rail post spacing, see sheet 12 of 13.

|          |     |
|----------|-----|
| DESIGNED | JJD |
| CHECKED  | EML |
| DRAWN    | KLH |
| CHECKED  | EML |

**HORNER & SHIFRIN, INC.**  
ENGINEERS

PRE-STAGE I DETAILS III  
F.A.P. ROUTE 328 - SECTION (8BR-1)B-1  
WAYNE COUNTY  
STATION 719+63.09  
STRUCTURE NO. 096-0020

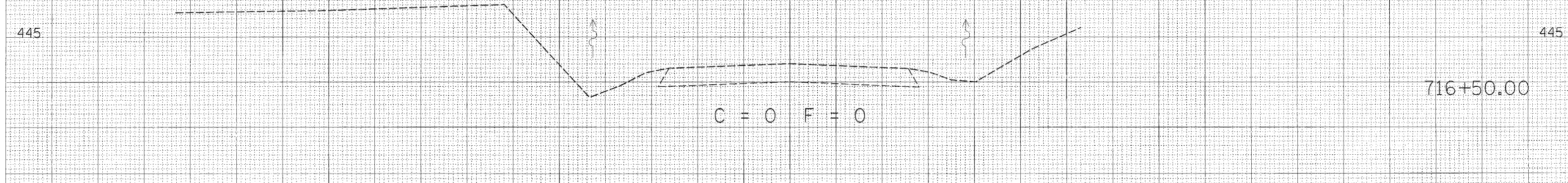
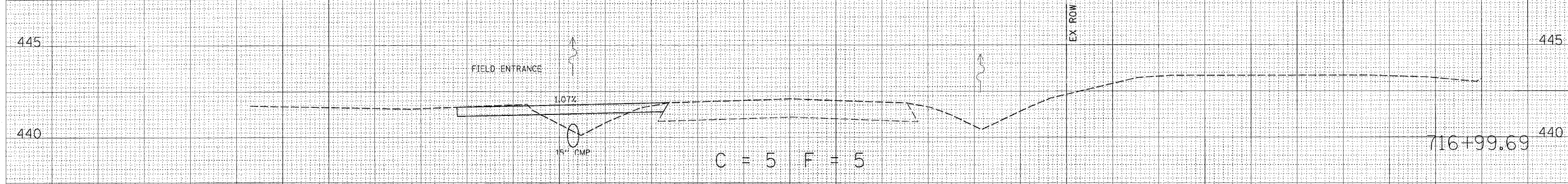
| F.A.P. RTE.         | SECTION  | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|---------------------------|--------------|-----------|
| 328                 | 18B-1B-1 | WAYNE                     | 39           | 30        |
| STA. 716+50.00      |          | TO STA. 717+00.00         |              |           |
| FED. ROAD DIST. NO. |          | ILLINOIS FED. AID PROJECT |              |           |

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| FINAL SURVEY |  |
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| DATE            |  |
| BY              |  |
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| PLOTTED         |  |
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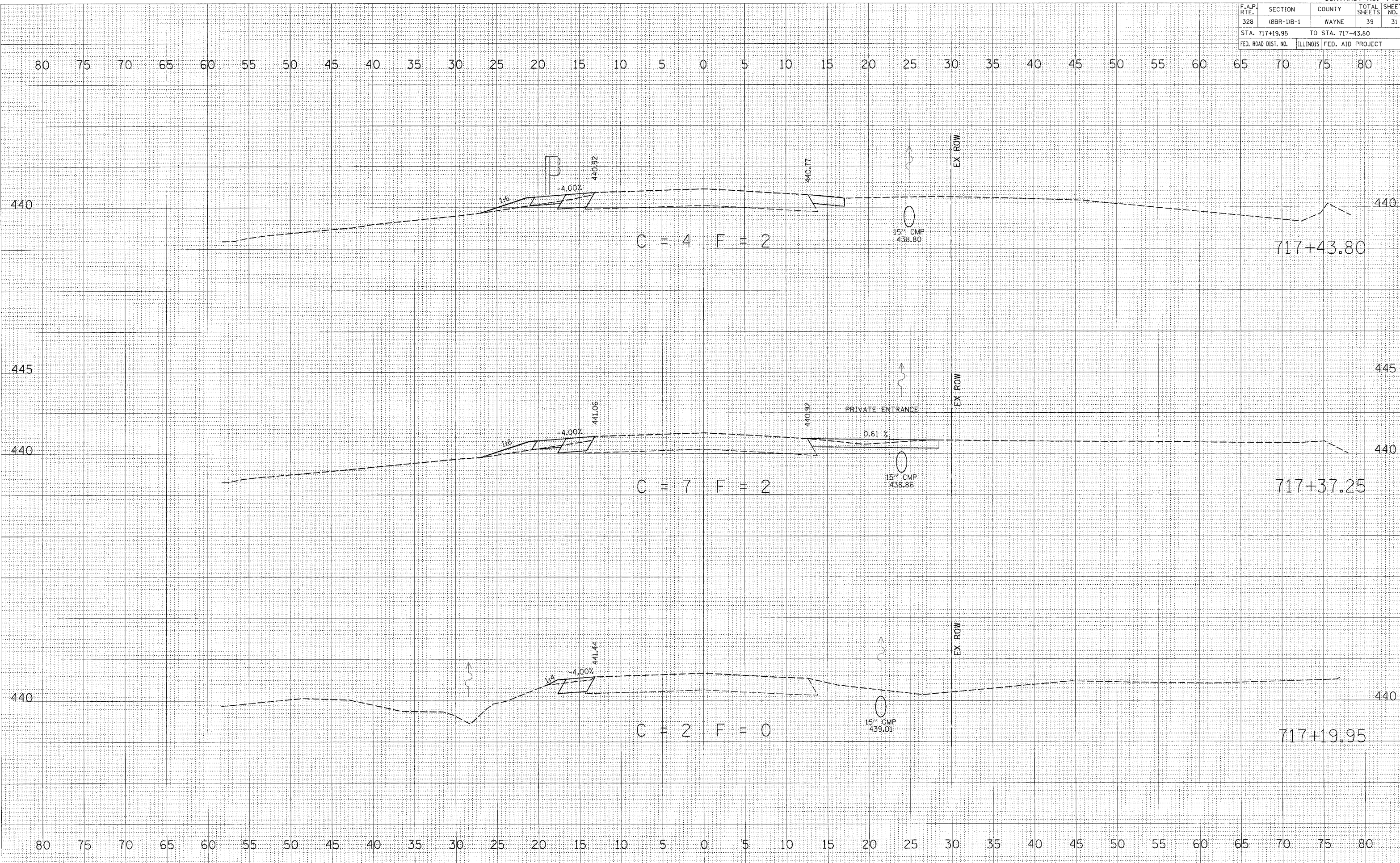
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| F.A.P. RTE.         | SECTION    | COUNTY            | TOTAL SHEETS     | SHEET NO. |
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| FED. ROAD DIST. NO. |            | ILLINOIS          | FED. AID PROJECT |           |

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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 NOTE BOOK: \_\_\_\_\_  
 AREA CHECKED: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
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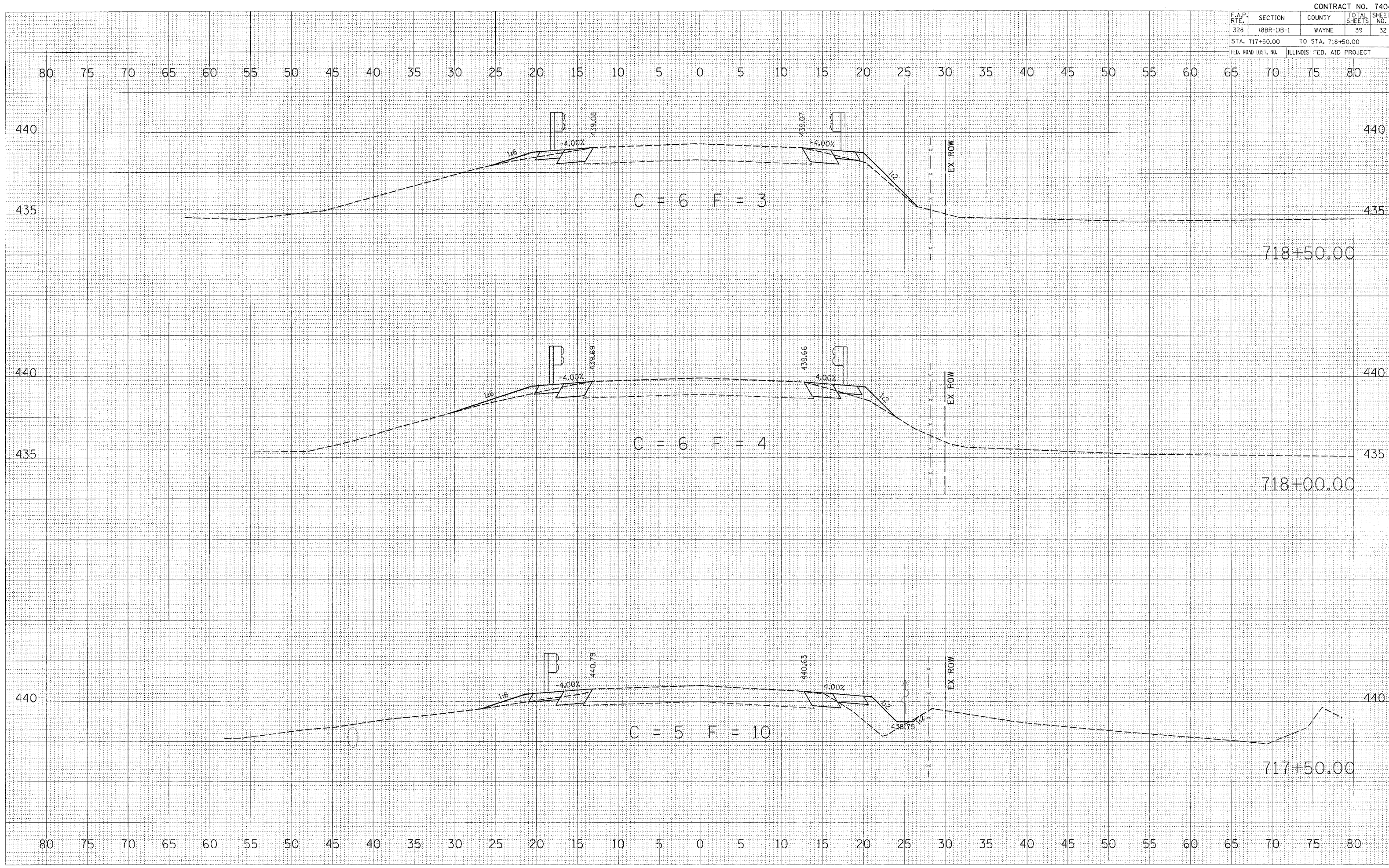


| F.A.P. RTE.         | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 328                 | (BBR-DB-1 | WAYNE                     | 39           | 32        |
| STA. 717+50.00      |           | TO STA. 718+50.00         |              |           |
| FED. ROAD DIST. NO. |           | ILLINOIS FED. AID PROJECT |              |           |

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| FINAL SURVEY  |  |
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| BY              |  |
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| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 33        |
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| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

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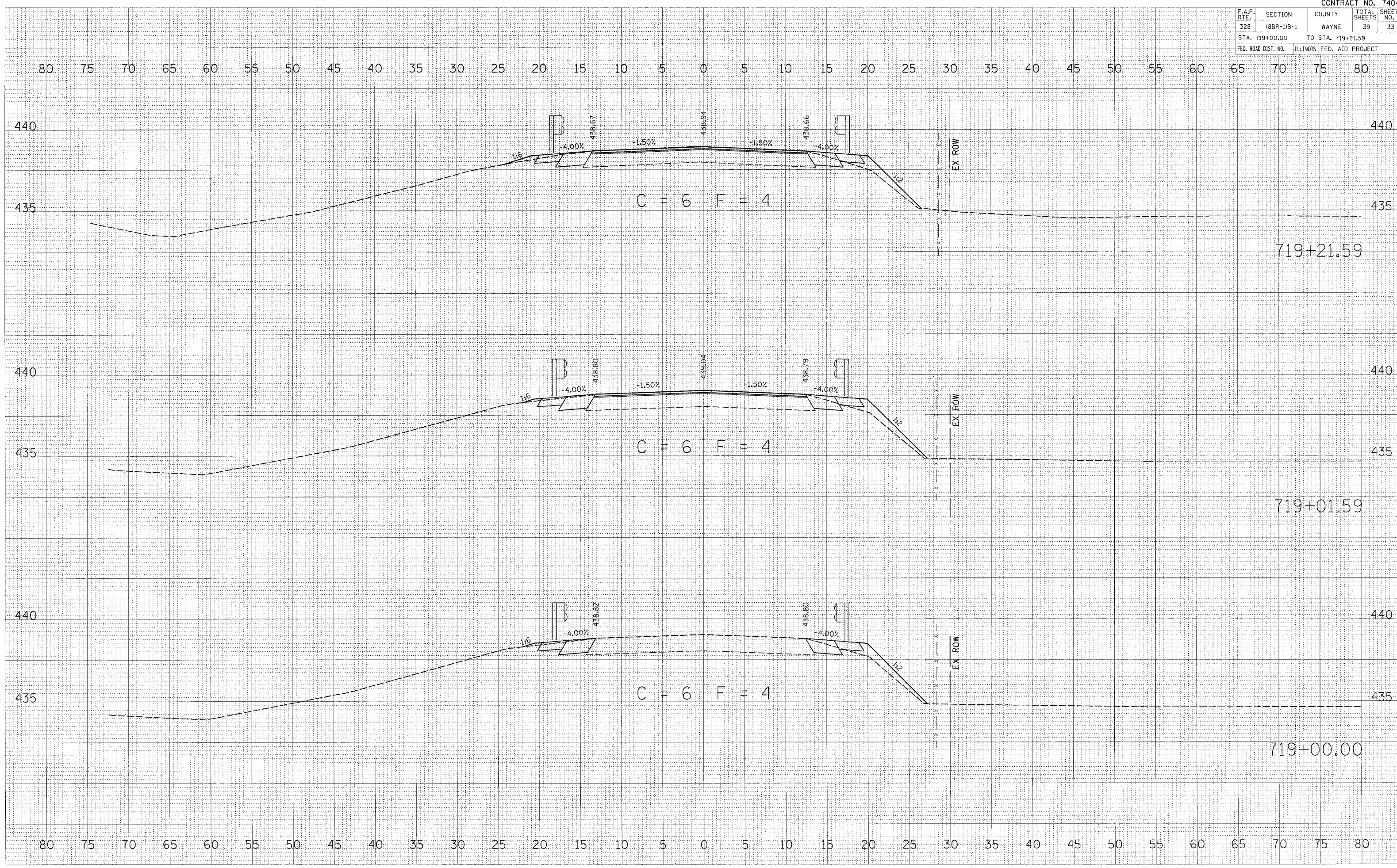
  

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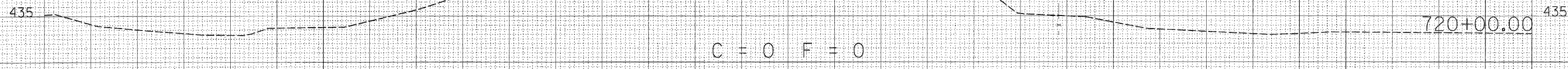
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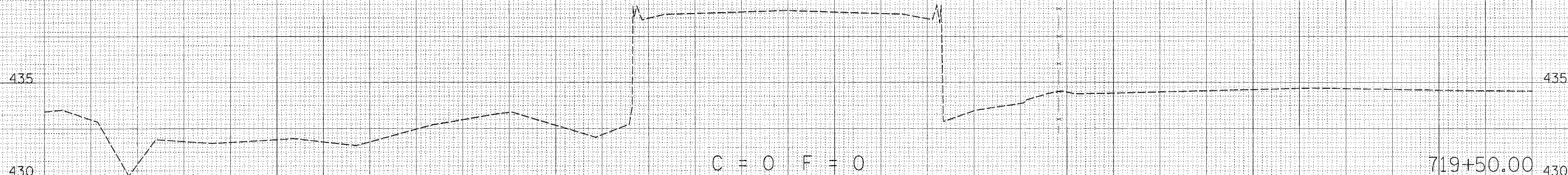
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| STA. 719+50.00      |            | TO STA. 720+00.00         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

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| DATE         |          |
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| F.A.P. RTE.                                   | SECTION    | COUNTY            | TOTAL SHEETS | SHEET NO. |
|---|------------|-------------------|--------------|-----------|
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| STA. 720+04.59                                |            | TO STA. 720+50.00 |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |            |                   |              |           |

| DATE | BY |
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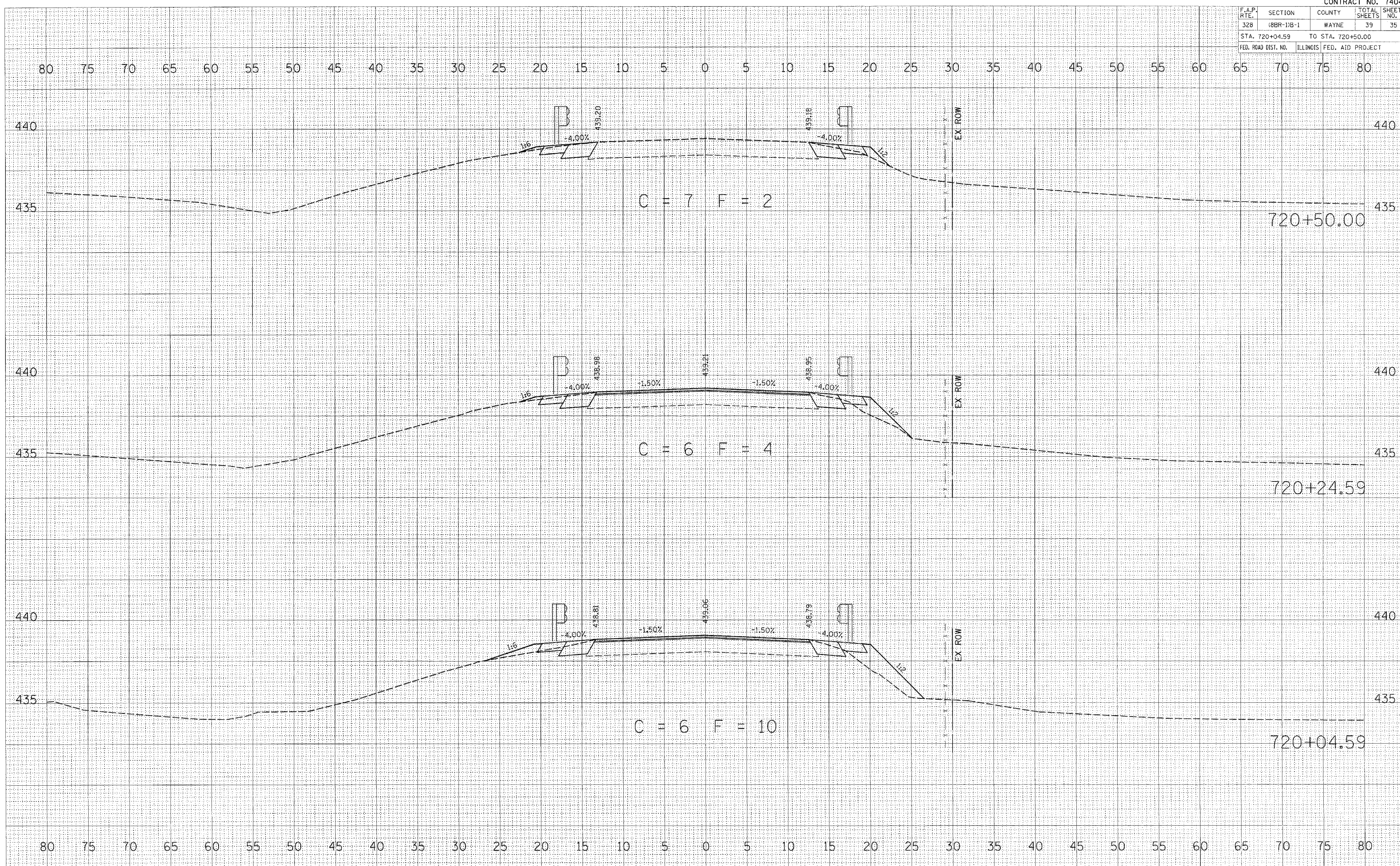
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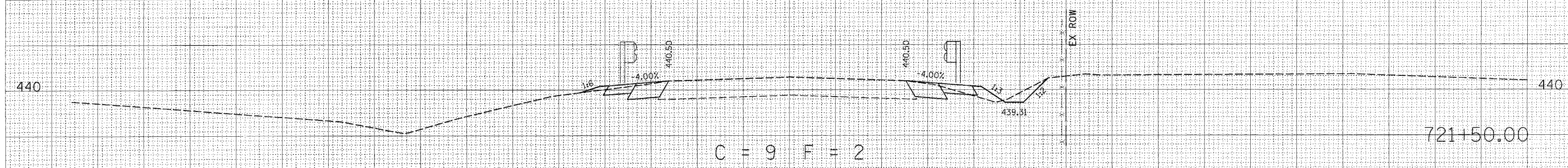
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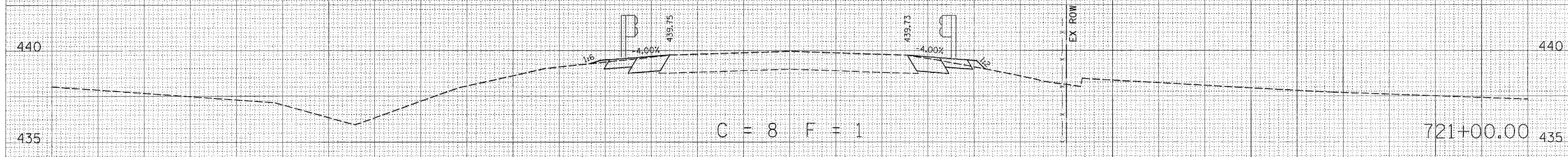
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| STA. 721+00.00      |            | TO STA. 721+50.00         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

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



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| BY              | DATE          |



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| F.A.P. RTE.         | SECTION    | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 328                 | (8BR-1)B-1 | WAYNE                     | 39           | 37        |
| STA. 722+00.00      |            | TO STA. 722+06.52         |              |           |
| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

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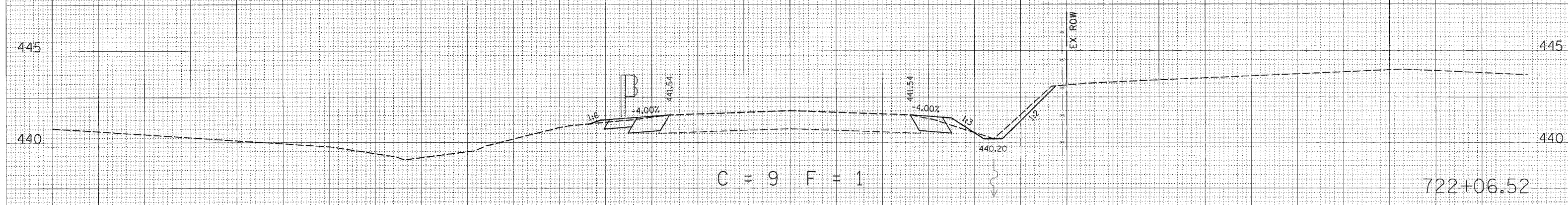
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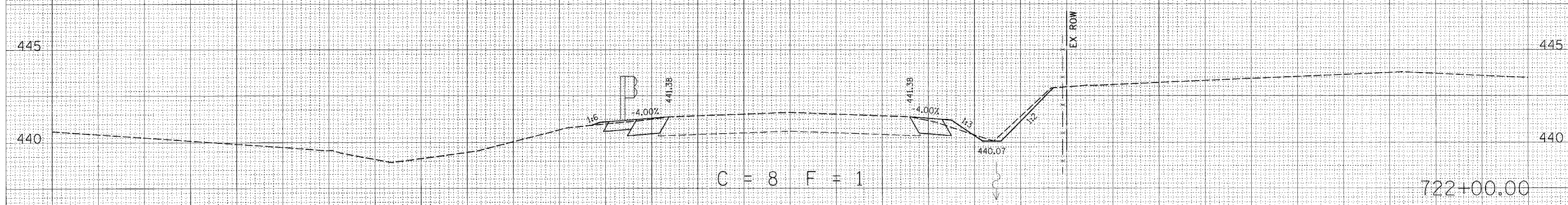
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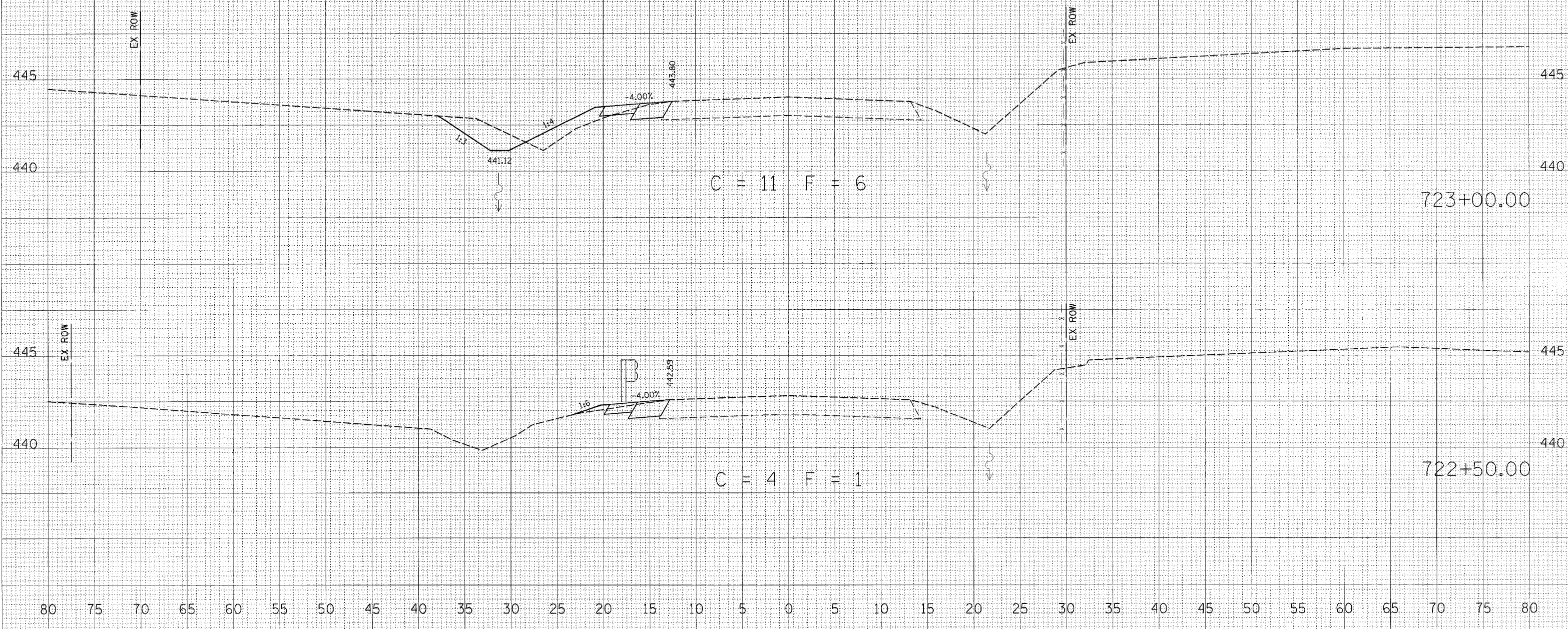
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| FED. ROAD DIST. NO. |            | ILLINOIS FED. AID PROJECT |              |           |

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| F.A.P. RTE.                                   | SECTION   | COUNTY            | TOTAL SHEETS | SHEET NO. |
|---|-----------|-------------------|--------------|-----------|
| 328   | 096-020-1 | WAYNE             | 39           | 39        |
| STA. 723+08.63                                |           | TO STA. 723+50.00 |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |           |                   |              |           |

FINAL SURVEY BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SURVEYED BY: \_\_\_\_\_

FLIPPED BY: \_\_\_\_\_

NOTE BOOK NO. \_\_\_\_\_

AREAS CHECKED \_\_\_\_\_

DATE CHECKED \_\_\_\_\_

ORIGINAL SURVEY BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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NOTE BOOK NO. \_\_\_\_\_

AREAS CHECKED \_\_\_\_\_

DATE CHECKED \_\_\_\_\_

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PLOT SCALE = 5/8" = 1' IN.

USER NAME = koldensb@p

