

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | .       | MADISON | 42           | 1         |

• 125RS-1, 125I-2TS-2

49  
51

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 789 (IL 143)  
SECTION 125RS-1, 125I-2TS-2

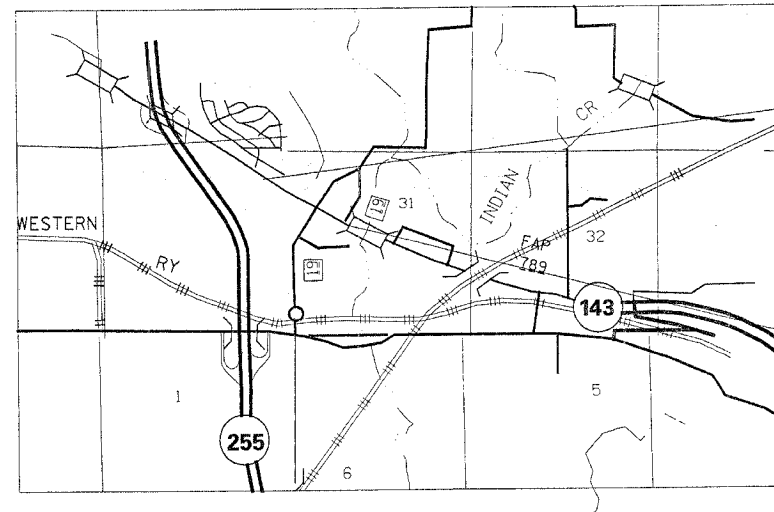
MADISON COUNTY  
PROJECT: HSIP-0789(046)  
C-98-021-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**INSTALLATION OF LEFT TURN LANE AND TRAFFIC SIGNALS**



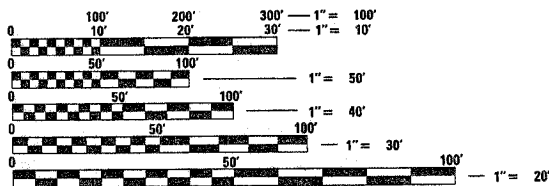
LOCATION OF SECTION INDICATED THUS: ———



BEGIN  
STA 204 + 35.00  
LAT: N38.84627°  
LONG: W90.04327°

END  
STA 236 + 66.68  
LAT: N38.84167°  
LONG: W90.03385°

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS

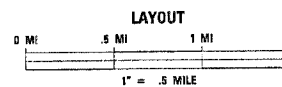


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

IL 143

OTHER PRINCIPAL ARTERIAL  
ADT 2005 (10,700)  
SU = 3.7%  
MU = 2.3%



GROSS LENGTH = .61 MI = 3,231.68 FT  
NET LENGTH = .61 MI = 3,231.68 FT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED January 31, 20 07

Mary C. Janie  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER

March 23, 20 07

Eric E. Howard  
ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 20 07

Melton R. Sepp, P.E.  
DIRECTOR, DIVISION OF HIGHWAYS

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

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179  
SQUAD LEADER: CHERYL KEPLAR (618) 346-3186

CONTRACT NO. 76994

| FAP ROUTE             | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO |
|-----------------------|---------|---------|--------------|----------|
| 789                   | *       | MADISON | 42           | 2        |
| CONTRACT # 76994      |         |         |              |          |
| * 125RS-1, 125I-2TS-2 |         |         |              |          |

**GENERAL NOTES**

1. THE STANDARDS AND REVISIONS NUMBERS LISTED SHALL APPLY TO THIS PROJECT.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- AMEREN IP
- AT & T CORPORATION
- BUCKEYE PIPE LINE COMPANY
- CHARTER COMMUNICATIONS, INC.
- EXPLORER PIPELINE COMPANY
- NORTHEAST CENTRAL WATER DISTRICT
- PLAINS PIPELINE, L.P.
- AT & T ILLINOIS
- SOUTHWESTERN ELECTRIC COOPERATIVE, INC.

•MEMBERS OF JOINT UTILITY LOCATING INFORMATION FOR EXCAVATIONS (J.U.L.I.E.).  
THE J.U.L.I.E. SYSTEM PHONE NUMBER IS 1-800-982-0123

3. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE CONSIDERED TO BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR (48" X 48").
4. ALL EXCAVATED AREAS DUE TO WIDENING OPERATIONS SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH APPROPRIATE LIGHTS.
5. NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED.
6. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS INCLUDING LUNCH HOUR AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
7. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

| MIXTURE USE                         | SURFACE COURSE | LEVEL BINDER   | BINDER/BASE COURSE | SHOULDERS      | TOP LIFT SHOULDERS |
|-------------------------------------|----------------|----------------|--------------------|----------------|--------------------|
| AC/PG                               | SBS 70-22      | PG 64-22       | PG 64-22           | PG 58-22       | PG 58-22           |
| RAP % (MAX)                         | 0%             | 10%            | 15%                | 30%            | 30%                |
| DESIGN AIR VOIDS                    | 4.0% @ Ndes=90 | 4.0% @ Ndes=90 | 4.0% @ Ndes=90     | 2.0% @ Ndes=30 | 2.0% @ Ndes=30     |
| MIX COMPOSITION (GRADATION MIXTURE) |                |                |                    |                |                    |
| FRICITION AGG                       | MIXTURE "D"    | MIXTURE "C"    | MIXTURE "B"        | BAM            | BAM                |

8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
9. THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
10. IF ANY UNSUITABLE MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, IT WILL BE NECESSARY TO REMOVE THE UNSUITABLE MATERIAL AND REPLACE IT WITH A SUITABLE MATERIAL AS APPROVED BY THE ENGINEER.
11. THE CONTRACTOR AND ENGINEER SHALL BE AWARE THAT ONLY A PORTION OF THE PROJECT WAS FIELD SURVEYED, AND A PORTION OF THE PROJECT TOPO WAS CREATED FROM MICROFILM AND FIELD MEASUREMENTS. THE FIELD SURVEY WAS COMPLETED FROM STA. 214+60 TO STA. 236+50. THE TOPOGRAPHY FROM STA 202+00 TO STA 214+60 AND SECTION STA. 236+50 TO STA. 244+00 WERE CREATED FROM MICROFILM AND FIELD MEASUREMENTS AND THEREFORE SHOULD BE ASSUMED TO BE APPROXIMATE.
12. THE CONTRACTOR SHALL BE AWARE THAT THERE ARE MANHOLES & VALVES LOCATED WITHIN THE RESURFACING LIMITS. CARE SHALL BE TAKEN IN THESE LOCATIONS DURING MILLING OPERATIONS.
13. SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
14. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED, PRIMED, LEVEL BINDER, AND FINAL BITUMINOUS SURFACES. A QUANTITY OF TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS.
15. HMA = HOT-MIX ASPHALT
16. MILLINGS TO BE DELIVERED TO THE MITCHELL OPERATION YARD. PLEASE CONTACT STEVE WHEELER AT 259-1440 PRIOR TO DELIVERING.

17. THE SPECIAL PROVISION FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" IS DEFINED ON SHEET NO. 25 AND WITHIN THE SPECIAL PROVISION TEXT.
18. APPROXIMATELY 50 TONS OF LEVEL BINDER IS INCLUDED IN THE QUANTITY ESTIMATE TO ALLOW FOR FILLING RUTTED AREAS OR OTHER IRREGULARITIES.

**STANDARDS**

|           |           |           |           |
|-----------|-----------|-----------|-----------|
| 000001-04 | 701326-02 | 781001-02 | 878001-05 |
| 280001-03 | 701426-02 | 805001    | 880006    |
| 482001-01 | 701701-04 | 814001-01 | 886001    |
| 701006-02 | 702001-06 | 814006-01 | 886006    |
| 701011-01 | 720001    | 857001    | 625006-02 |
| 701201-02 | 720016-01 | 873001-01 | 625011-01 |
| 701306-01 | 780001-01 | 877001-02 |           |

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS & STANDARDS
- 3-6 SUMMARY OF QUANTITIES
- 7-9 TYPICAL SECTIONS
- 10-12 SCHEDULES OF QUANTITIES
- 13 ALIGNMENT TIES & BENCHMARKS
- 14-20 PLAN SHEETS
- 21-27 PAVEMENT MARKING PLANS
- 28-32A TRAFFIC SIGNAL SHEETS
- 33-37 MISCELLANEOUS DETAILS
- 38-42 CROSS SECTIONS (IL 143 WIDENING AREA ONLY)
- 42 (A-H) GUARDRAIL DETAILS

**COMMITMENTS**

NONE

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL NOTES, INDEX OF SHEETS & STANDARDS**  
FAP 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

DRAWN BY:

PLOT DATE: 2/24/2007

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

DATE: 2/24/2007  
REF: 2/24/2007  
REF: 2/24/2007

| F.A.P. RTE.           | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------|--------------|-----------|
| 789                   |         | MADISON | 42           | 3         |
| • 125RS-1, 125I-2TS-2 |         |         |              |           |

ILLINOIS DEPARTMENT OF TRANSPORTATION

# SUMMARY OF QUANTITIES

| SUMMARY OF QUANTITIES |  |        | CONSTRUCTION TYPE CODE |                        |                        |                                    |
|-----------------------|--|--------|------------------------|------------------------|------------------------|------------------------------------|
| CODE NO               | ITEM   | UNIT   | URBAN TOTAL QUANTITIES | 1000 90% FED 10% STATE | 1000 90% FED 10% STATE | Y031-1F 90% FED 5% STATE 5% COUNTY |
| * 88040332            | SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH   | 1                      |                        |                        | 1                                  |
| 20200500              | EARTH EXCAVATION (WIDENING)  | CU YD  | 291.4                  |                        | 291.4                  |                                    |
| 25000200              | SEEDING, CLASS 2   | ACRE   | 0.7                    |                        | 0.7                    |                                    |
| 25000400              | NITROGEN FERTILIZER NUTRIENT   | POUND  | 63                     |                        | 63                     |                                    |
| 25000500              | PHOSPHORUS FERTILIZER NUTRIENT   | POUND  | 63                     |                        | 63                     |                                    |
| 25000600              | POTASSIUM FERTILIZER NUTRIENT  | POUND  | 63                     |                        | 63                     |                                    |
| 31101900              | SUB-BASE GRANULAR MATERIAL, TYPE C   | TON    | 320                    |                        | 320                    |                                    |
| 35600720              | HOT-MIX ASPHALT BASE COURSE WIDENING, 1 1/2"                                       | SQ YD  | 185                    |                        | 185                    |                                    |
| 40600200              | BITUMINOUS MATERIALS (PRIME COAT)  | TON    | 7.04                   | 1.52                   | 5.52                   |                                    |
| 40600300              | AGGREGATE (PRIME COAT)   | TON    | 29.39                  | 7.15                   | 22.24                  |                                    |
| 40600645              | LEVELING BINDER (MACHINE METHOD), N90  | TON    | 352.9                  |                        | 352.9                  |                                    |
| 40600982              | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT                                       | SQ YD  | 976                    | 156                    | 820                    |                                    |
| 40600990              | TEMPORARY RAMP   | SQ YD  | 124                    | 32                     | 92                     |                                    |
| 40603545              | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90                           | TON    | 1224.7                 | 407.2                  | 817.5                  |                                    |
| 44000152              | HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"  | SQ YD  | 12820                  | 4560                   | 8260                   |                                    |
| 44000500              | COMBINATION CURB AND GUTTER REMOVAL  | FOOT   | 16                     |                        | 16                     |                                    |
| 44003100              | MEDIAN REMOVAL   | SQ FT  | 10                     |                        | 10                     |                                    |
| 44004250              | PAVED SHOULDER REMOVAL   | SQ YD  | 170                    |                        | 170                    |                                    |
| 44200176              | PAVEMENT PATCHING, TYPE I, 15 INCH   | SQ YD  | 3                      |                        | 3                      |                                    |
| 44300200              | STRIP REFLECTIVE CRACK CONTROL TREATMENT   | FOOT   | 413                    |                        | 413                    |                                    |
| 48100500              | AGGREGATE SHOULDERS, TYPE A 6"   | SQ YD  | 135                    |                        | 135                    |                                    |
| 48102100              | AGGREGATE WEDGE SHOULDER, TYPE B   | TON    | 247                    |                        | 247                    |                                    |
| 48203029              | HOT-MIX ASPHALT SHOULDERS, 8"  | SQ YD  | 156                    |                        | 156                    |                                    |
| 48203100              | HOT-MIX ASPHALT SHOULDERS  | TON    | 206.3                  |                        | 206.3                  |                                    |
| * 63000000            | STEEL PLATE BEAM GUARD RAIL, TYPE A  | FOOT   | 12.5                   | 12.5                   |                        |                                    |
| * 63100167            | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)                                 | EACH   | 3                      | 3                      |                        |                                    |
| 63200310              | GUARDRAIL REMOVAL  | FOOT   | 150                    | 150                    |                        |                                    |
| 63301210              | REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A                            | FOOT   | 556.25                 | 556.25                 |                        |                                    |
| 67000400              | ENGINEER'S FIELD OFFICE, TYPE A  | CAL MO | 10                     | 4                      | 6                      |                                    |
| 67100100              | MOBILIZATION   | L SUM  | 1                      | 0.5                    | 0.5                    |                                    |
| 70100450              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201                                    | L SUM  | 1                      | 0.5                    | 0.5                    |                                    |

\* SPECIALTY ITEMS

PLOT DATE = 1/23/2007  
 FILE NAME = c:\p01\m13\1080485\plan\01080485a.dgn  
 PLOT SCALE = 5/8"=200' / IN.  
 REFERENCE = #REF#

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         |         | MADISON | 42           | 4         |

ILLINOIS DEPARTMENT OF TRANSPORTATION

# SUMMARY OF QUANTITIES

\* 125RS-1, 125I-2TS-2

| SUMMARY OF QUANTITIES |  |        | CONSTRUCTION TYPE CODE |                        |                        |                                    |  |
|-----------------------|--|--------|------------------------|------------------------|------------------------|------------------------------------|--|
| CODE NO               | ITEM   | UNIT   | URBAN TOTAL QUANTITIES | 1000 90% FED 10% STATE | 1000 90% FED 10% STATE | Y031-IF 90% FED 5% STATE 5% COUNTY |  |
| 70100460              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306      | L SUM  | 1                      | 0.5                    | 0.5                    |                                    |  |
| 70100500              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326      | L SUM  | 1                      | 0.5                    | 0.5                    |                                    |  |
| 70101800              | TRAFFIC CONTROL AND PROTECTION (SPECIAL)             | L SUM  | 1                      |                        | 1                      |                                    |  |
| 70102635              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701      | L SUM  | 1                      |                        |                        | 1                                  |  |
| 70103815              | TRAFFIC CONTROL SURVEILLANCE                         | CAL DA | 10                     |                        | 10                     |                                    |  |
| 70300100              | SHORT-TERM PAVEMENT MARKING                          | FOOT   | 8476                   | 1032                   | 7444                   |                                    |  |
| 70300210              | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS     | SQ FT  | 150.8                  |                        | 150.8                  |                                    |  |
| 70300220              | TEMPORARY PAVEMENT MARKING - LINE 4"                 | FOOT   | 15940                  | 7220                   | 8720                   |                                    |  |
| 70300260              | TEMPORARY PAVEMENT MARKING - LINE 12"                | FOOT   | 916                    | 123                    | 793                    |                                    |  |
| 70300280              | TEMPORARY PAVEMENT MARKING - LINE 24"                | FOOT   | 144                    |                        | 144                    |                                    |  |
| 70301000              | WORK ZONE PAVEMENT MARKING REMOVAL                   | SQ FT  | 941                    | 114.6                  | 826.4                  |                                    |  |
| 72000100              | SIGN PANEL - TYPE 1                                  | SQ FT  | 32                     |                        | 4                      | 28                                 |  |
| 72000200              | SIGN PANEL - TYPE 2                                  | SQ FT  | 50                     | 20                     |                        | 30                                 |  |
| 72400100              | REMOVE SIGN PANEL ASSEMBLY - TYPE A                  | EACH   | 6                      | 2                      | 4                      |                                    |  |
| 72400310              | REMOVE SIGN PANEL - TYPE 1                           | SQ FT  | 48.7                   | 11.2                   | 25                     | 12.5                               |  |
| 73000100              | WOOD SIGN SUPPORT                                    | FOOT   | 48                     | 32                     | 16                     |                                    |  |
| 78000100              | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT  | 150.8                  |                        | 150.8                  |                                    |  |
| 78000200              | THERMOPLASTIC PAVEMENT MARKING - LINE 4"             | FOOT   | 15940                  | 7220                   | 8720                   |                                    |  |
| 78000500              | THERMOPLASTIC PAVEMENT MARKING - LINE 8"             | FOOT   | 405                    |                        | 405                    |                                    |  |
| 78000600              | THERMOPLASTIC PAVEMENT MARKING - LINE 12"            | FOOT   | 916                    | 123                    | 793                    |                                    |  |
| 78000650              | THERMOPLASTIC PAVEMENT MARKING - LINE 24"            | FOOT   | 175                    |                        | 175                    |                                    |  |
| 78100100              | RAISED REFLECTIVE PAVEMENT MARKER                    | EACH   | 112                    | 38                     | 74                     |                                    |  |
| 78200410              | GUARDRAIL MARKERS, TYPE A                            | EACH   | 10                     | 10                     |                        |                                    |  |
| 78201000              | TERMINAL MARKER - DIRECT APPLIED                     | EACH   | 3                      | 3                      |                        |                                    |  |
| 78300200              | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL            | EACH   | 99                     | 30                     | 69                     |                                    |  |
| 80300100              | LOCATING UNDERGROUND CABLE                           | FOOT   | 175                    |                        |                        | 175                                |  |
| 80500100              | SERVICE INSTALLATION, TYPE A                         | EACH   | 1                      |                        |                        | 1                                  |  |
| 81012300              | CONDUIT IN TRENCH, 1" DIA., PVC                      | FOOT   | 147                    |                        |                        | 147                                |  |
| 81012500              | CONDUIT IN TRENCH, 1 1/2" DIA., PVC                  | FOOT   | 21                     |                        |                        | 21                                 |  |
| 81012600              | CONDUIT IN TRENCH, 2" DIA., PVC                      | FOOT   | 140                    |                        |                        | 140                                |  |

\*SPECIALTY ITEMS

PLOT DATE = 1/23/2007  
 FILE NAME = c:\pms\jess\ad85486\plan\in\8106.dgn  
 PLOTTER = HP DesignJet 500 / IN  
 REFERENCE = REF1

|                       |         |         |              |           |
|-----------------------|---------|---------|--------------|-----------|
| F.A.P. RTE.           | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 789                   | .       | MADISON | 42           | 5         |
| • 125RS-1, 125I-2T5-2 |         |         |              |           |

ILLINOIS DEPARTMENT OF TRANSPORTATION

# SUMMARY OF QUANTITIES

| SUMMARY OF QUANTITIES |   |      | CONSTRUCTION TYPE CODE |                        |                        |                                    |  |
|-----------------------|---|------|------------------------|------------------------|------------------------|------------------------------------|--|
| CODE NO               | ITEM  | UNIT | URBAN TOTAL QUANTITIES | 1000 90% FED 10% STATE | 1000 90% FED 10% STATE | Y031-1F 90% FED 5% STATE 5% COUNTY |  |
| 81012700              | CONDUIT IN TRENCH, 2 1/2" DIA., PVC                                 | FOOT | 10                     |                        |                        | 10                                 |  |
| 81012800              | CONDUIT IN TRENCH, 3" DIA., PVC                                     | FOOT | 30                     |                        |                        | 30                                 |  |
| 81013000              | CONDUIT IN TRENCH, 4" DIA., PVC                                     | FOOT | 8                      |                        |                        | 8                                  |  |
| 81018400              | CONDUIT PUSHED, 1 1/2" DIA., GALVANIZED STEEL                       | FOOT | 46                     |                        |                        | 46                                 |  |
| 81018500              | CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL                           | FOOT | 80                     |                        |                        | 80                                 |  |
| 81018600              | CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL                       | FOOT | 55                     |                        |                        | 55                                 |  |
| 81018700              | CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL                           | FOOT | 122                    |                        |                        | 122                                |  |
| 81400700              | HANDHOLE, PORTLAND CEMENT CONCRETE                                  | EACH | 4                      |                        |                        | 4                                  |  |
| 81400720              | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE                           | EACH | 1                      |                        |                        | 1                                  |  |
| 81900200              | TRENCH AND BACKFILL FOR ELECTRICAL WORK                             | FOOT | 243                    |                        |                        | 243                                |  |
| 81900205              | TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)                   | FOOT | 36                     |                        |                        | 36                                 |  |
| 85000500              | MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION                | EACH | 1                      |                        |                        | 1                                  |  |
| 85700200              | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET                        | EACH | 1                      |                        |                        | 1                                  |  |
| * 85800300            | FLASHER CONTROLLER, WITHOUT CABINET                                 | EACH | 1                      |                        |                        | 1                                  |  |
| 87301115              | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 2C                         | FOOT | 2115                   |                        |                        | 2115                               |  |
| 87301245              | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                         | FOOT | 3100                   |                        |                        | 3100                               |  |
| 87301255              | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                         | FOOT | 920                    |                        |                        | 920                                |  |
| 87301305              | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                   | FOOT | 3200                   |                        |                        | 3200                               |  |
| 87301805              | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                       | FOOT | 30                     |                        |                        | 30                                 |  |
| 87700200              | STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.                            | EACH | 3                      |                        |                        | 3                                  |  |
| 87700250              | STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.                            | EACH | 1                      |                        |                        | 1                                  |  |
| 87800200              | CONCRETE FOUNDATION, TYPE D   | FOOT | 3                      |                        |                        | 3                                  |  |
| 87800415              | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                        | FOOT | 46                     |                        |                        | 46                                 |  |
| 87900200              | DRILL EXISTING HANDHOLE   | EACH | 5                      |                        |                        | 5                                  |  |
| 88040070              | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 1                      |                        |                        | 1                                  |  |

\* SPECIALTY ITEMS

PLOT DATE = 1/23/2007  
 PLOT SCALE = 1/4" = 100'-0"  
 REFERENCE = #REF\*

| F.A.P. RTE.           | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------|--------------|-----------|
| 789                   |         | MADISON | 42           | 6         |
| • 125RS-1, 125I-2T5-2 |         |         |              |           |

ILLINOIS DEPARTMENT OF TRANSPORTATION

# SUMMARY OF QUANTITIES

| SUMMARY OF QUANTITIES |  |        | CONSTRUCTION TYPE CODE        |                              |                              |   |  |
|-----------------------|--|--------|-------------------------------|------------------------------|------------------------------|---|--|
| CODE NO               | ITEM   | UNIT   | USABAN<br>TOTAL<br>QUANTITIES | 1000<br>90% FED<br>10% STATE | 1000<br>90% FED<br>10% STATE | Y031-1F<br>90% FED<br>5% STATE<br>5% COUNTY |  |
| 88040090              | SIGNAL HEAD, POLYCARBONATE, LED,<br>1-FACE, 3-SECTION, MAST ARM MOUNTED                  | EACH   | 8                             |                              |                              | 8   |  |
| 88040120              | SIGNAL HEAD, POLYCARBONATE, LED,<br>1-FACE, 4-SECTION, MAST ARM MOUNTED                  | EACH   | 2                             |                              |                              | 2   |  |
| 88040230              | SIGNAL HEAD, POLYCARBONATE, LED,<br>2-FACE, 3-SECTION, BRACKET MOUNTED                   | EACH   | 1                             |                              |                              | 1   |  |
| 88040250              | SIGNAL HEAD, POLYCARBONATE, LED,<br>2-FACE, 1-3 SECTION, 1-4 SECTION,<br>BRACKET MOUNTED | EACH   | 1                             |                              |                              | 1   |  |
| 88200300              | TRAFFIC SIGNAL BACKPLATE, PLASTIC  | EACH   | 10                            |                              |                              | 10  |  |
| * 88500100            | INDUCTIVE LOOP DETECTOR  | EACH   | 12                            |                              |                              | 12  |  |
| 88600100              | DETECTOR LOOP, TYPE I  | FOOT   | 1700                          |                              |                              | 1700  |  |
| 89502300              | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT   | 2360                          |                              |                              | 2360  |  |
| 89502375              | REMOVE EXISTING TRAFFIC SIGNAL<br>EQUIPMENT  | EACH   | 1                             |                              |                              | 1   |  |
| 89502380              | REMOVE EXISTING HANDHOLE   | EACH   | 1                             |                              |                              | 1   |  |
| X0301183              | GEOMETRICALLY PROGRAMMED LOUVER  | EACH   | 2                             |                              |                              | 2   |  |
| X7015005              | CHANGEABLE MESSAGE SIGN  | CAL DA | 7                             |                              |                              | 7   |  |
| X8730027              | ELECTRIC CABLE IN CONDUIT, GROUNDING,<br>NO. 6 1C  | FOOT   | 2238                          |                              |                              | 2238  |  |

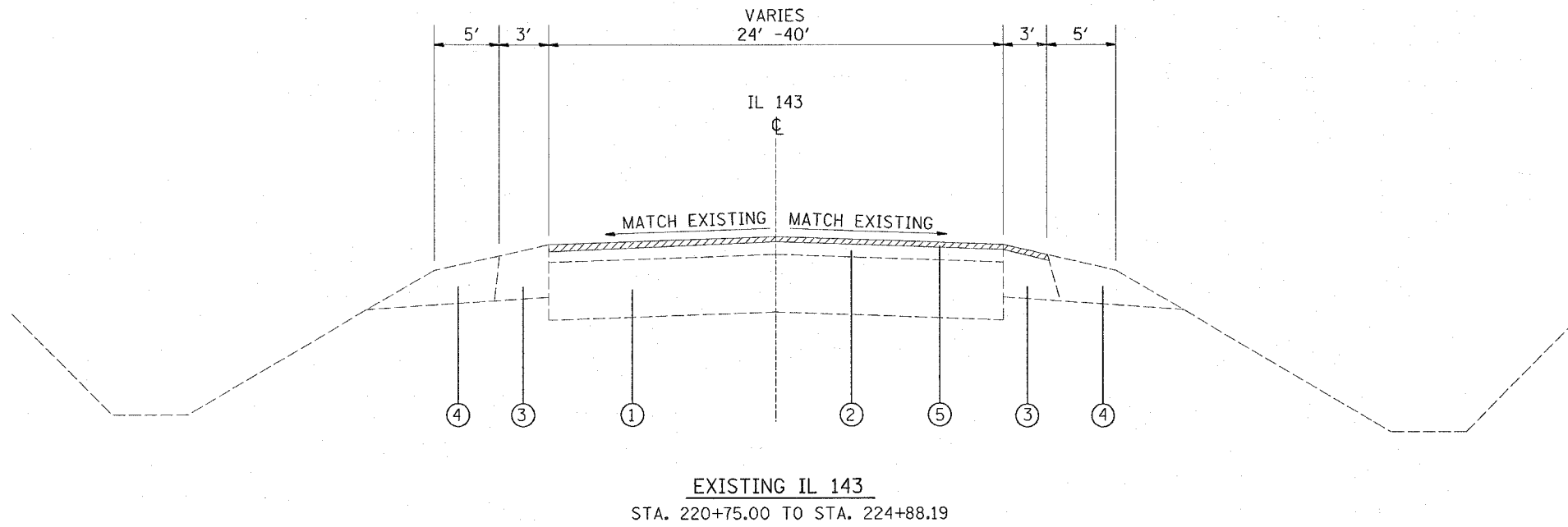
\* SPECIALTY ITEMS

PLOT DATE = 1/23/2007  
 PLOT NAME = \\s111\ad83408\plan\plan03486a.dgn  
 PLOT SCALE = 50.0000 / IN.  
 REFERENCE = REF#



| F.A.P. RTE. | SECTION | COUNTY            | TOTAL SHEETS | SHEET NO. |
|-------------|---------|-------------------|--------------|-----------|
| 789         | *       | MADISON           | 42           | 8         |
| STA. 220+75 |         | TO STA. 224+45.30 |              |           |

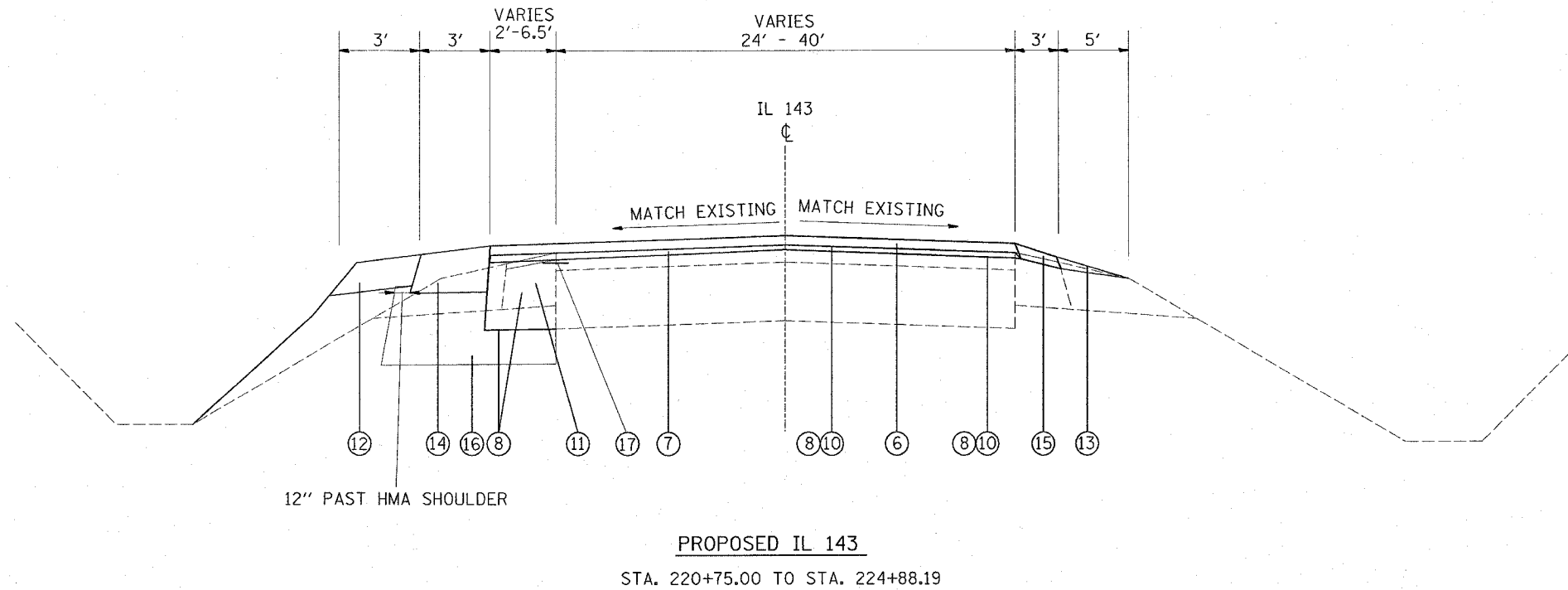
\* 125RS-1, 125I-2TS-2



**LEGEND**

- ① EXISTING PORTLAND CEMENT PAVEMENT
- ② EXISTING BITUMINOUS CONCRETE RESURFACING +/- 3" to 5"
- ③ EXISTING BITUMINOUS CONCRETE SHOULDER +/- 6" to 10"
- ④ EXISTING AGGREGATE SHOULDER
- ⑤ PROPOSED HMA SURFACE REMOVAL 3/4"
- ⑥ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIXTURE "D", N90 (1 1/2")
- ⑦ PROPOSED LEVELING BINDER (MACHINE METHOD), N90 (3/4")
- ⑧ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑨ OMITTED
- ⑩ PROPOSED AGGREGATE MATERIALS (PRIME COAT)
- ⑪ PROPOSED HMA BASE COURSE WIDENING, 11"
- ⑫ PROPOSED AGGREGATE SHOULDERS, TYPE A 6"
- ⑬ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROPOSED HMA SHOULDERS, 8"
- ⑮ PROPOSED HMA SHOULDERS (TONS)
- ⑯ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C
- ⑰ PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT

NOTE: HMA=HOT-MIX ASPHALT



12" PAST HMA SHOULDER

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION  |
|-----------|------|--|
| NAME      | DATE |  |
|           |      | <b>TYPICAL SECTIONS</b><br><br>FAP ROUTE 789<br>SECTION 125RS-1, 125I-2TS-2<br>MADISON COUNTY<br><br>SCALE: VERT. _____<br>HORIZ. _____<br>DATE _____ DRAWN BY _____<br>CHECKED BY _____ |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |

PLOT DATE = 1/23/2007  
 PLOT SCALE = 1/4" = 10'-0"  
 PLOT SIZE = 11x17 IN.  
 REFERENCE = #REF#







| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | •       | MADISON | 42           | 11        |

• 125RS-1, 125I-2TS-2

RESURFACING SCHEDULE

| LOCATION       |           | AGGREGATE (PRIME COAT) | BIT. MATERIALS (PRIME COAT) | LEVELING BINDER (MACHINE METHOD) | POLY. HMA SURF. COURSE |
|----------------|-----------|------------------------|-----------------------------|----------------------------------|------------------------|
| STA.           | STA.      | (TONS)                 | (TONS)                      | (TONS)                           | (TONS)                 |
| 204+35         | 206+00    | 0.97                   | 0.2                         |                                  | 54.2                   |
| 206+00         | 212+00    | 2.54                   | 0.54                        |                                  | 143.3                  |
| 212+00         | 218+00    | 2.51                   | 0.54                        |                                  | 145                    |
| 218+00         | 220+75    | 1.13                   | 0.24                        |                                  | 64.7                   |
| SMART SUBTOTAL |           | 7.15                   | 1.52                        |                                  | 407.2                  |
| 220+75         | 224+00    | 3.60                   | 1.05                        | 50.9                             | 110.8                  |
| 224+00         | 230+00    | 11.51                  | 2.7                         | 200                              | 500                    |
| 230+00         | 235+00    | 5.70                   | 1.36                        | 81.3                             | 165.1                  |
| 235+00         | 236+66.68 | 1.43                   | 0.41                        | 20.7                             | 41.6                   |
| 3R SUBTOTAL    |           | 22.24                  | 5.52                        | 352.9                            | 817.5                  |
| TOTAL          |           | 29.39                  | 7.04                        | 352.9                            | 1224.7                 |

PAVED SHOULDER REMOVAL

| LOCATION  |           | PAVED SHOULDER REMOVAL (SQ YD) |
|-----------|-----------|--------------------------------|
| STA.      | STA.      |                                |
| 220+75 LT | 224+88 LT | 170                            |
| TOTAL     |           | 170                            |

EARTHWORK SCHEDULE

| LOCATION  |           | EARTH EXCAVATION (WIDENING) | EARTH EXC. ADJUSTED FOR SHRINKAGE | EMBANKMENT | EARTHWORK BALANCE |
|-----------|-----------|-----------------------------|-----------------------------------|------------|-------------------|
| STA.      | STA.      | (CY)                        | (CY)                              | (CY)       | (CY)              |
| 220+50 LT | 220+75 LT | 6.8                         | 5.1                               | 0.0        | 5.1               |
| 220+75 LT | 221+00 LT | 13.4                        | 10.1                              | 0.0        | 10.1              |
| 221+00 LT | 221+50 LT | 25.6                        | 19.2                              | 0.2        | 19.0              |
| 221+50 LT | 222+00 LT | 26.9                        | 20.1                              | 0.2        | 19.9              |
| 222+00 LT | 222+50 LT | 35.2                        | 26.4                              | 0.6        | 25.8              |
| 222+50 LT | 223+00 LT | 40.7                        | 30.6                              | 2.0        | 28.5              |
| 223+00 LT | 223+50 LT | 40.7                        | 30.6                              | 8.3        | 22.2              |
| 223+50 LT | 224+00 LT | 39.8                        | 29.9                              | 22.8       | 7.1               |
| 224+00 LT | 224+45 LT | 35.8                        | 26.9                              | 18.7       | 8.2               |
| 224+45 LT | 225+00 LT | 26.5                        | 19.9                              | 6.3        | 13.6              |
| TOTAL     |           | 291.4                       | 218.5                             | 59.1       | 159.5             |

RAISED REFLECTIVE PAVEMENT MARKERS AND REMOVAL

| LOCATION       |           | RRPM (EACH) | RRPM REMOVAL (EACH) |
|----------------|-----------|-------------|---------------------|
| STA.           | STA.      |             |                     |
| SMART SECTION  |           |             |                     |
| 204+35         | 206+00    | 12          | 8                   |
| 206+00         | 212+00    | 15          | 10                  |
| 212+00         | 218+00    | 8           | 8                   |
| 218+00         | 220+75    | 3           | 4                   |
| SMART SUBTOTAL |           | 38          | 30                  |
| SMART TOTAL    |           | 38          | 30                  |
| 3R SECTION     |           |             |                     |
| 220+75         | 224+00    | 15          | 14                  |
| 224+00         | 230+00    | 32          | 32                  |
| 230+00         | 235+00    | 24          | 19                  |
| 235+00         | 236+66.68 | 3           | 4                   |
| 3R SUBTOTAL    |           | 74          | 69                  |
| 3R TOTAL       |           | 74          | 69                  |
| TOTAL          |           | 112         | 99                  |

PLOT DATE = 1/23/2007  
 PLOT SCALE = 1/8"=1'-0"  
 PLOT SHEET = 11  
 REFERENCE = #REF#

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION   |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | <b>SCHEDULE OF QUANTITIES</b><br><br>FAP ROUTE 789<br>SECTION 125RS-1, 125I-2TS-2<br>MADISON COUNTY<br><br>SCALE: VERT. _____<br>HORIZ. _____<br>DATE _____ |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | *       | MADISON | 42           | 12        |

• 125RS-1, 1251-2TS-2

PAVEMENT MARKING SCHEDULE

| LOCATION    |           | THERMO PAVEMENT MARKING - 4" |                        |                           |                        | THERMO PAVEMENT MARKING - 12" |                       |                      | THERMO P.M. 8" | THERMO P.M. 24"       | THERMO. P.M. - LETTERS AND SYMBOLS |
|-------------|-----------|------------------------------|------------------------|---------------------------|------------------------|-------------------------------|-----------------------|----------------------|----------------|-----------------------|------------------------------------|
| STA         | STA       | WHITE EDGE LINE (FOOT)       | WHITE SKIP-DASH (FOOT) | DOUBLE YELLOW LINE (FOOT) | WHITE LANE LINE (FOOT) | YELLOW DIAGONALS (FOOT)       | WHITE STOP BAR (FOOT) | YELLOW MEDIAN (FOOT) | WHITE (FOOT)   | WHITE STOP BAR (FOOT) | (SQ FT)                            |
| SMART       |           |                              |                        |                           |                        |                               |                       |                      |                |                       |                                    |
| 204+35      | 206+00    | 340.0                        |                        | 680.0                     |                        | 88.0                          |                       |                      |                |                       |                                    |
| 206+00      | 212+00    | 1,200.0                      |                        | 1,500.0                   |                        | 35.0                          |                       |                      |                |                       |                                    |
| 212+00      | 218+00    | 1,200.0                      |                        | 1,200.0                   |                        |                               |                       |                      |                |                       |                                    |
| 218+00      | 220+75    | 550.0                        |                        | 550.0                     |                        |                               |                       |                      |                |                       |                                    |
| SUBTOTAL    |           | 3,290.0                      |                        | 3,930.0                   |                        | 123.0                         |                       |                      |                |                       |                                    |
| SMART TOTAL |           |                              |                        | 7,220.0                   |                        |                               | 123.0                 |                      |                | 0.0                   | 0.0                                |
| 3R          |           |                              |                        |                           |                        |                               |                       |                      |                |                       |                                    |
| 220+75      | 224+00    | 650.0                        | 42.0                   | 1,266.0                   |                        | 80.0                          |                       |                      |                |                       |                                    |
| 224+00      | 230+00    | 1,082.0                      | 74.0                   | 1,490.0                   | 505.0                  | 40.0                          | 24.0                  | 556.0                | 405.0          | 175.0                 | 135.2                              |
| 230+00      | 235+00    | 1,010.0                      | 36.0                   | 1,812.0                   | 85.0                   | 93.0                          |                       |                      |                |                       | 15.6                               |
| 235+00      | 236+66.68 | 334.0                        |                        | 334.0                     |                        |                               |                       |                      |                |                       |                                    |
| SUBTOTAL    |           | 3,076.0                      | 152.0                  | 4,902.0                   | 590.0                  | 213.0                         | 24.0                  | 556.0                | 405.0          | 175.0                 | 150.8                              |
| 3R SUBTOTAL |           |                              |                        | 8,720.0                   |                        |                               | 793.0                 |                      | 405.0          | 175.0                 | 150.8                              |
| GRAND TOTAL |           |                              |                        | 15,940.0                  |                        |                               | 916.0                 |                      | 405.0          | 175.0                 | 150.8                              |

REMOVE SIGN PANEL ASSEMBLY

| LOCATION                     | REMOVE SIGN PANEL - ASSEMBLY - TYPE A (EACH) |
|------------------------------|--|
| SMART                        |  |
| NPZ STA. 214+00 RT           | 1  |
| NPZ STA. 215+00 LT           | 1  |
| SMART SUBTOTAL               | 2  |
| 3R                           |  |
| 4 STOP SIGNS AT INTERSECTION | 4  |
| TOTAL                        | 6  |

REMOVE SIGN PANEL - TYPE 1

| LOCATION                     | REMOVE SIGN PANEL - TYPE 1 (SQ FT) |
|------------------------------|------------------------------------|
| SMART                        |                                    |
| NPZ STA. 214+00 RT           | 5.6                                |
| NPZ STA. 215+00 LT           | 5.6                                |
| SMART SUBTOTAL               | 11.2                               |
| 3R                           |                                    |
| 4 STOP SIGNS AT INTERSECTION | 25.0                               |
| TOTAL                        | 36.2                               |

SHORT-TERM AND WORK ZONE PAVEMENT MARKING

| LOCATION       |           | SHORT -TERM PAVEMENT MARKING (FOOT) | WORK ZONE P.M. REMOVAL (SQ FT) |
|----------------|-----------|-------------------------------------|--------------------------------|
| STA.           | STA.      |                                     |                                |
| SMART SECTION  |           |                                     |                                |
| 204+35         | 206+00    | 120                                 | 13.3                           |
| 206+00         | 212+00    | 360                                 | 40.0                           |
| 212+00         | 218+00    | 360                                 | 40.0                           |
| 218+00         | 220+75    | 192                                 | 21.3                           |
| SMART SUBTOTAL |           | 1,032                               | 114.6                          |
| 3R SECTION     |           |                                     |                                |
| 220+75         | 224+00    | 512                                 | 56.8                           |
| 224+00         | 230+00    | 6,500                               | 721.6                          |
| 230+00         | 235+00    | 360                                 | 40.0                           |
| 235+00         | 236+66.68 | 72                                  | 8.0                            |
| 3R SUBTOTAL    |           | 7,444                               | 826.4                          |
| TOTAL          |           | 8,476                               | 941.0                          |

A QUANTITY OF SHORT-TERM PAVEMENT MARKING HAS BEEN ADDED FOR TURN LANE ARROWS AND STOP BARS.

STRIP REFLECTIVE CRACK CONTROL TREATMENT

| LOCATION  |           | STRIP RELECTIVE CRACK CONTROL TREATMENT (FOOT) |
|-----------|-----------|--|
| STA.      | STA.      |  |
| 220+75 LT | 224+48 LT | 413  |
| TOTAL     |           | 413  |

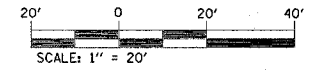
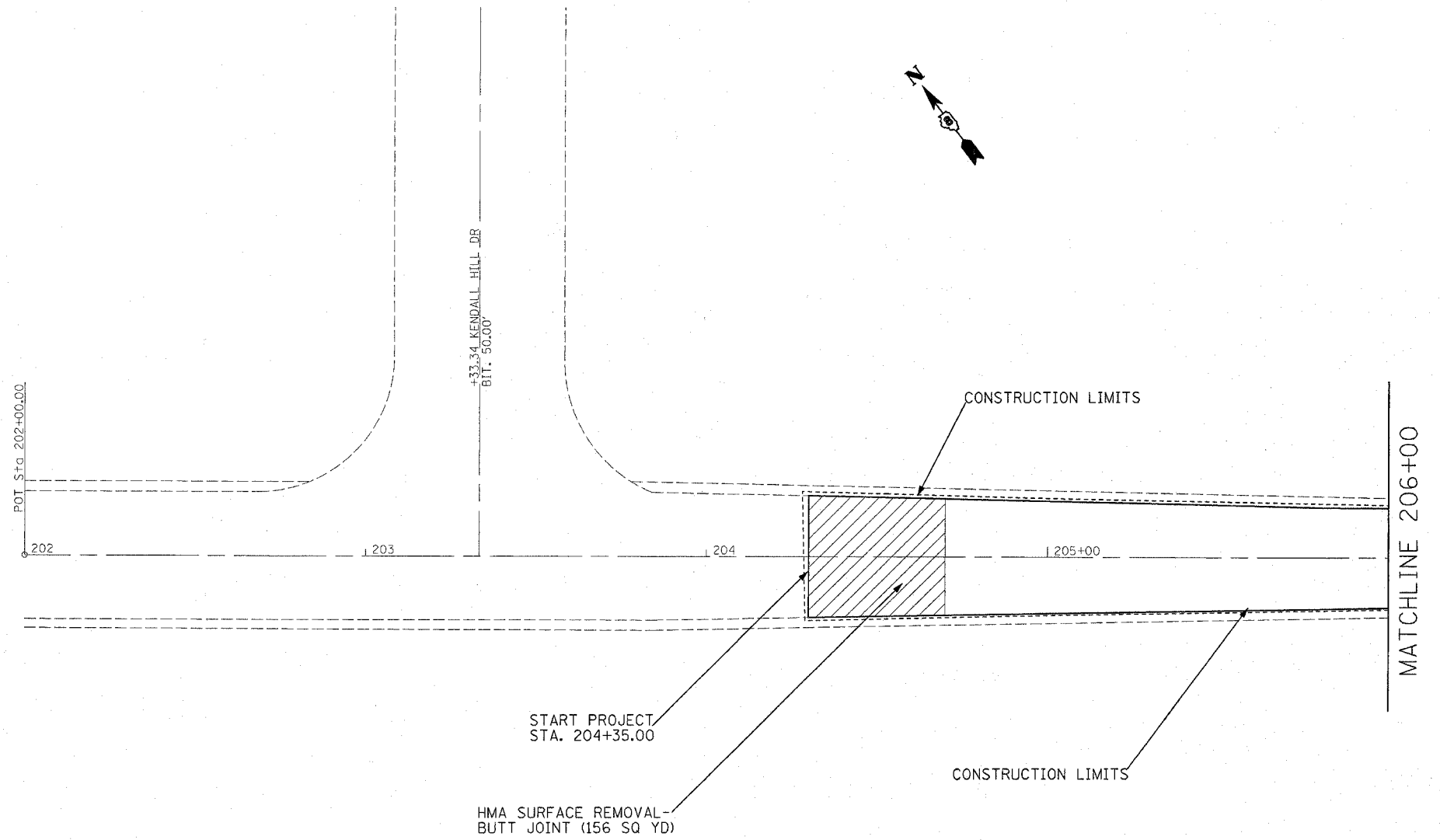
TEMPORARY RAMP

| LOCATION       | TEMPORARY RAMP (SQ YD) |     |
|----------------|------------------------|-----|
| SMART          |                        |     |
| STA. 204+35    | 32                     |     |
| SUBTOTAL       | 32                     |     |
| 3R             |                        |     |
| WANDA RD       | 32                     |     |
| MORELAND RD    | 38                     |     |
| STA. 236+66.68 | 22                     |     |
| SUBTOTAL       | 92                     |     |
| TOTAL          |                        | 124 |

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION   |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | <b>SCHEDULE OF QUANTITIES</b><br><br>FAP ROUTE 789<br>SECTION 125RS-1, 1251-2TS-2<br>MADISON COUNTY<br><br>SCALE: VERT. _____ HORIZ. _____ DATE _____ DRAWN BY _____ CHECKED BY _____ |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |



| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 14        |
| STA. 204+53.34        |         | TO STA. 206+00 |              |           |
| * 125RS-1, 125I-2TS-2 |         |                |              |           |



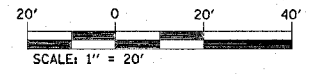
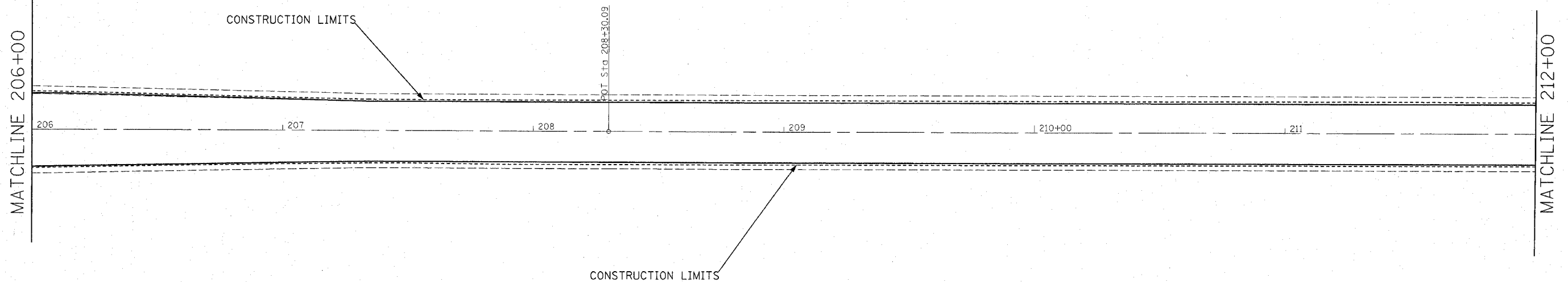
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\76994\plan\p14.dwg  
 PLOT SCALE = 2002000 / IN  
 REFERENCE = 4819

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 15        |
| STA. 206+00           |         | TO STA. 212+00 |              |           |
| * 125RS-1, 125I-2TS-2 |         |                |              |           |



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

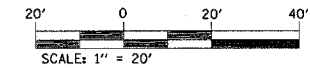
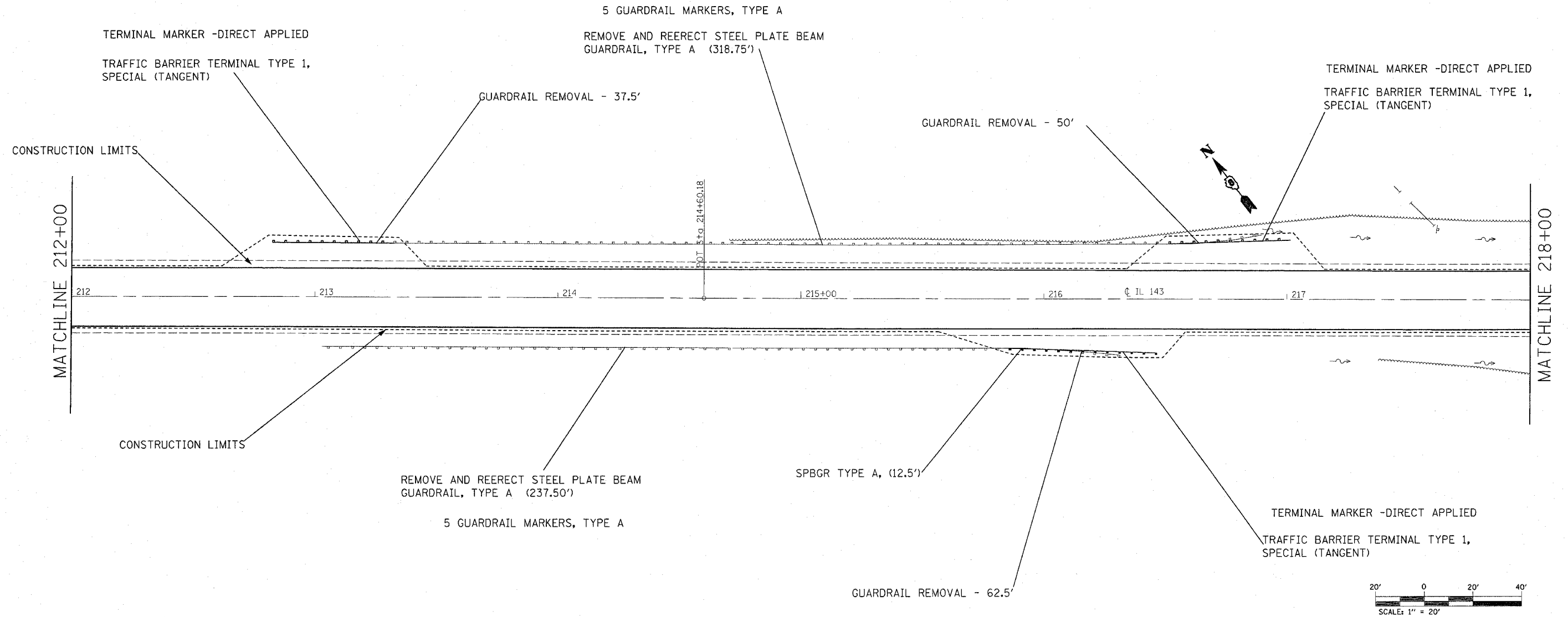
SCALE: VERT. \_\_\_\_\_  
 DATE: \_\_\_\_\_ HORIZ. \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 PLOT SCALE = 20.0000 / IN.  
 REFERENCE = #REF#

| F.A.P. RTE.                | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|----------------------------|---------|---------|--------------|-----------|
| 789                        |         | MADISON | 42           | 16        |
| STA. 212+00 TO STA. 218+00 |         |         |              |           |
| • 125RS-1, 125I-2TS-2      |         |         |              |           |

NOTE: "SPBGR, TYPE A" AND "REMOVE AND REERECT SPBGR, TYPE A" SHALL BE DONE ACCORDING TO DETAILS ON SHEETS 42A -42H.  
 ALL TRAFFIC BARRIER TERMINAL SECTIONS SHALL BE DONE TO CONNECT GUARDRAIL SECTIONS AS SHOWN IN DETAILS ON SHEETS 42A -42H.



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

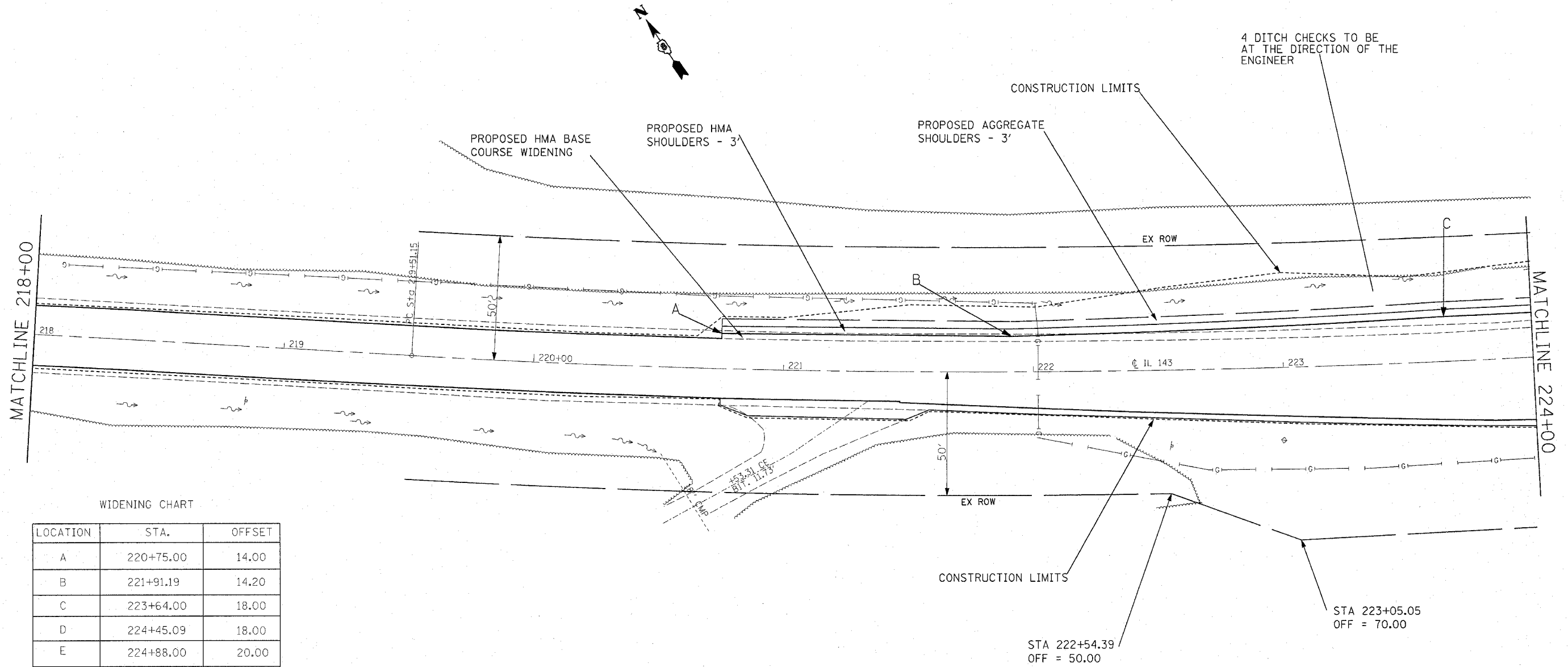
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 2/24/2007  
 PLOT SCALE = 20,000 / IN.  
 REFERENCE = #REF#

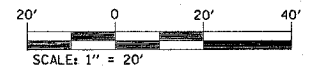


| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | •       | MADISON        | 42           | 17        |
| STA. 218+00           |         | TO STA. 224+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



WIDENING CHART

| LOCATION | STA.      | OFFSET |
|----------|-----------|--------|
| A        | 220+75.00 | 14.00  |
| B        | 221+91.19 | 14.20  |
| C        | 223+64.00 | 18.00  |
| D        | 224+45.09 | 18.00  |
| E        | 224+88.00 | 20.00  |



NOTE: MILLING TRANSITION DETAIL ON SHEET NO 37.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY  
 SCALE: VERT. HORIZ.  
 DATE  
 DRAWN BY  
 CHECKED BY

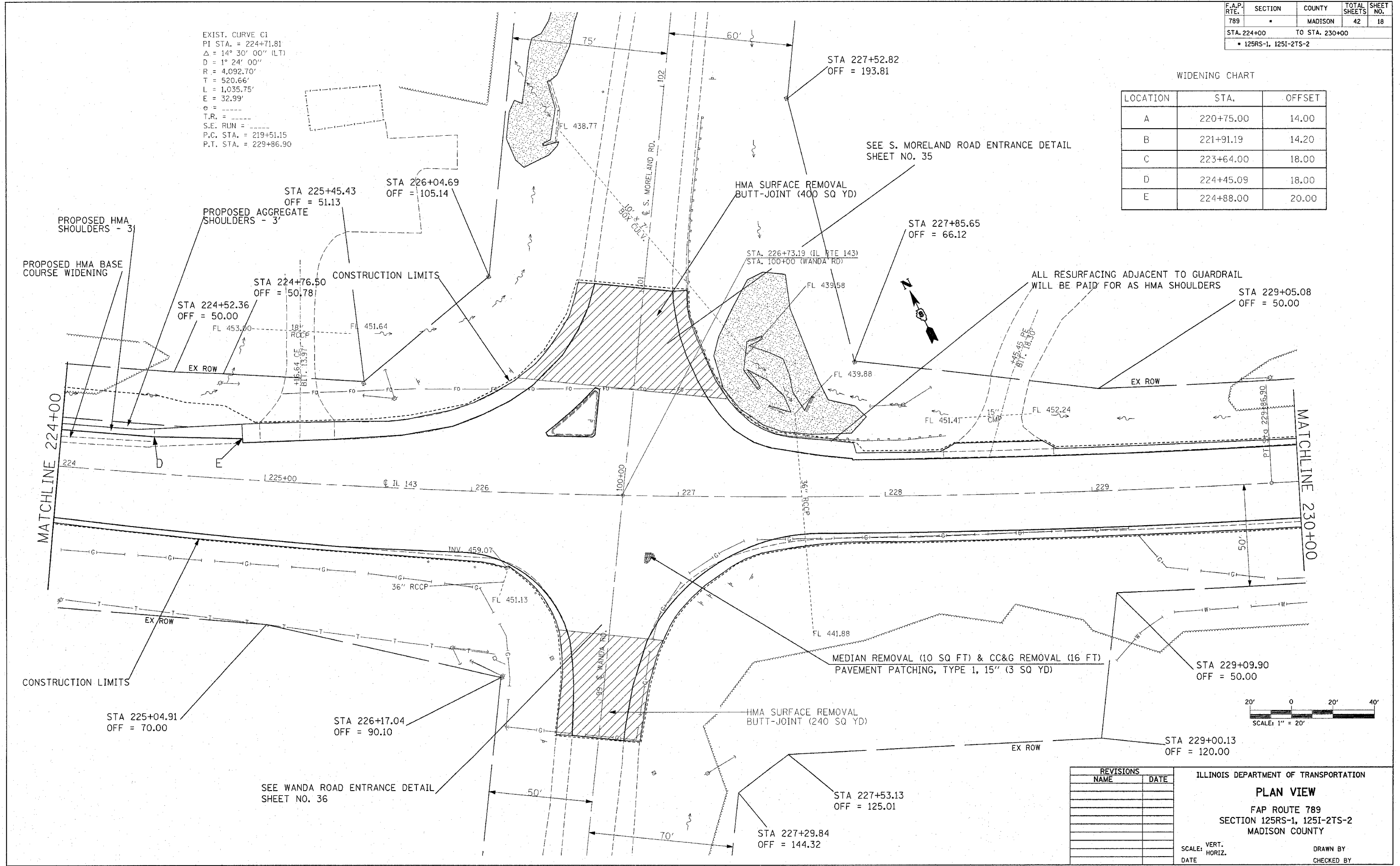
PLOT DATE = 1/23/2007  
 PLOT TIME = 10:00:00  
 PLOT SCALE = 1" = 20'  
 PLOT REFERENCE = REF#

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 18        |
| STA. 224+00           |         | TO STA. 230+00 |              |           |
| * 125RS-1, 125I-2TS-2 |         |                |              |           |

EXIST. CURVE C1  
 PI STA. = 224+71.81  
 $\Delta = 14^\circ 30' 00''$  (LT)  
 $D = 1^\circ 24' 00''$   
 $R = 4,092.70'$   
 $T = 520.66'$   
 $L = 1,035.75'$   
 $E = 32.99'$   
 $\theta =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 219+51.15$   
 $P.T. STA. = 229+86.90$

WIDENING CHART

| LOCATION | STA.      | OFFSET |
|----------|-----------|--------|
| A        | 220+75.00 | 14.00  |
| B        | 221+91.19 | 14.20  |
| C        | 223+64.00 | 18.00  |
| D        | 224+45.09 | 18.00  |
| E        | 224+88.00 | 20.00  |

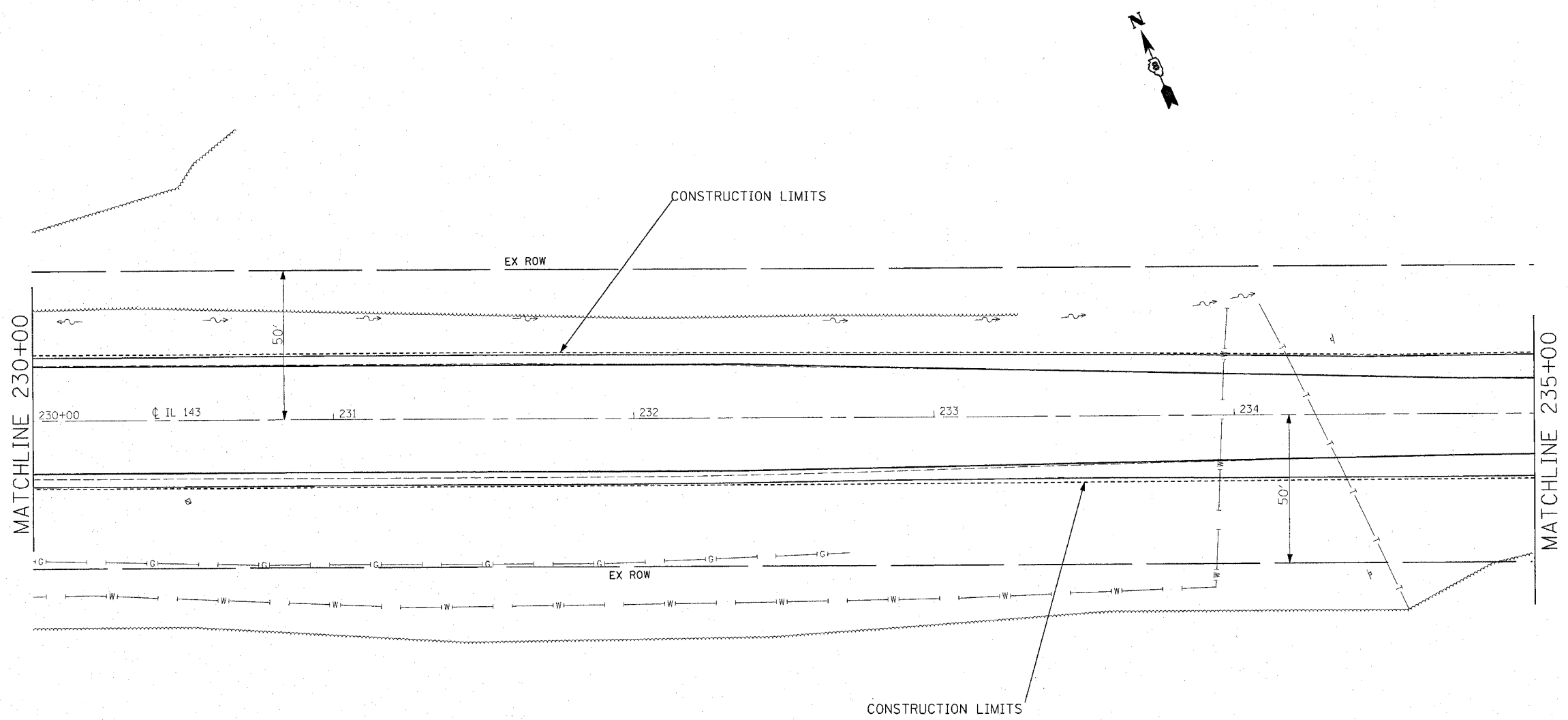


| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\76994\plan\p03186.dwg  
 PLOT SCALE = 28.2000 / 1" IN.  
 REFERENCE = 48874

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 19        |
| STA. 230+00           |         | TO STA. 235+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PLAN VIEW**

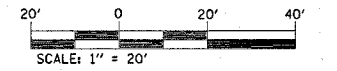
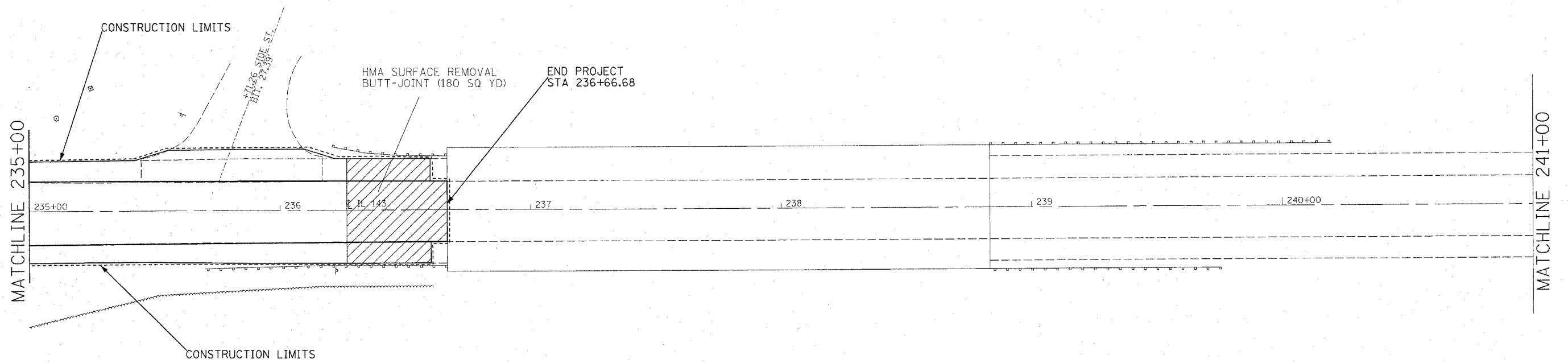
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
PLOT SCALE = 20/2000' / IN.  
REFERENCE = \*REF\*

| F.A.P. RTE.           | SECTION | COUNTY            | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|-------------------|--------------|-----------|
| 789                   | *       | MADISON           | 42           | 20        |
| STA. 235+00           |         | TO STA. 236+66.68 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                   |              |           |



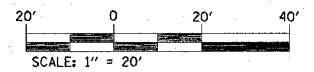
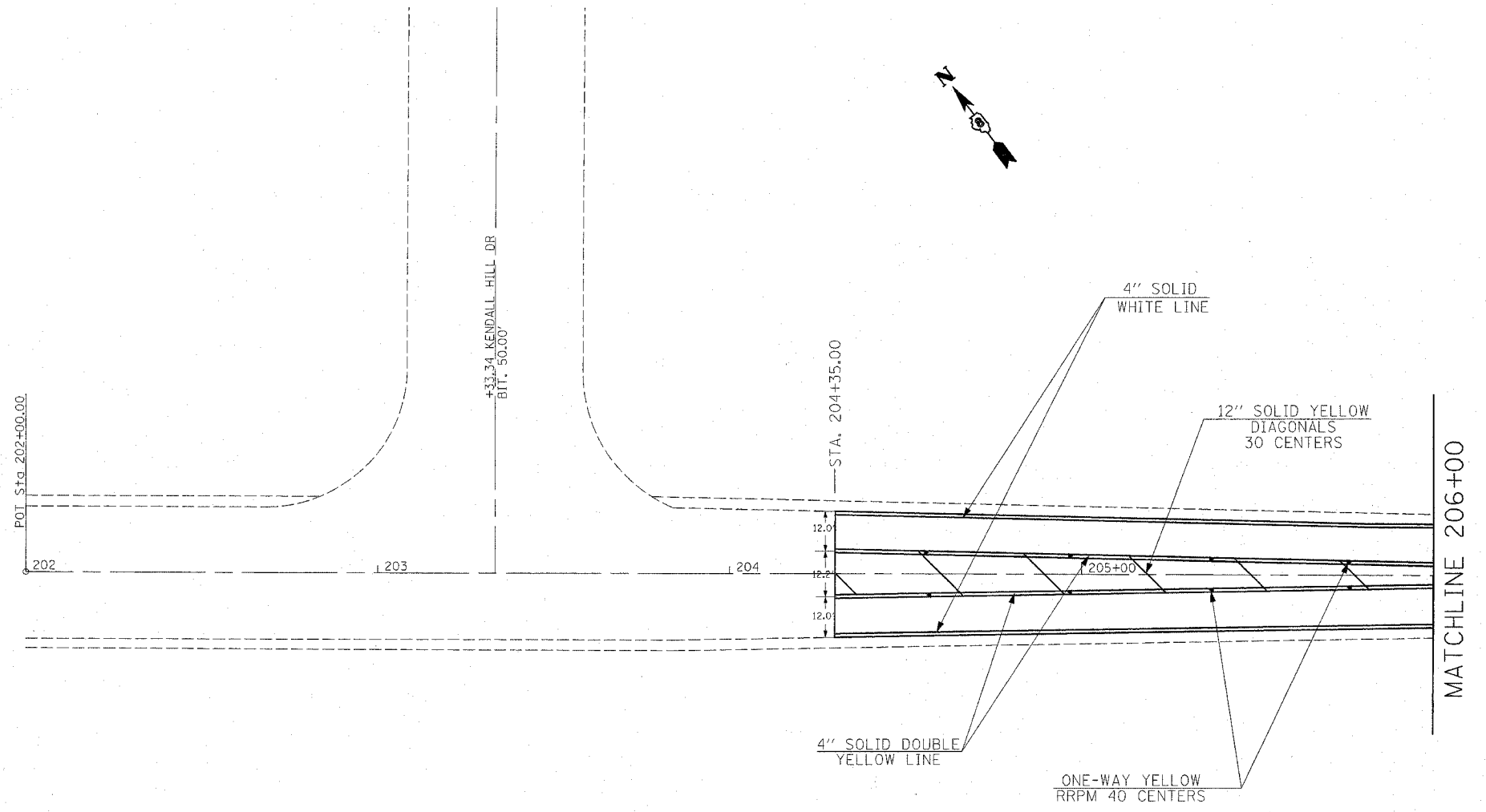
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. DATE  
 HORIZ. CHECKED BY

PLOT DATE = 1/23/2007  
 FILE NAME = \\s\125rs-1\125i-2ts-2\plan\pl024100.dgn  
 PLOT SCALE = 20.0000' / IN.  
 REFERENCE = NREF#

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   |         | MADISON        | 42           | 21        |
| STA. 204+53.34        |         | TO STA. 206+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



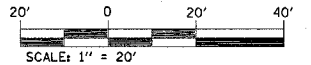
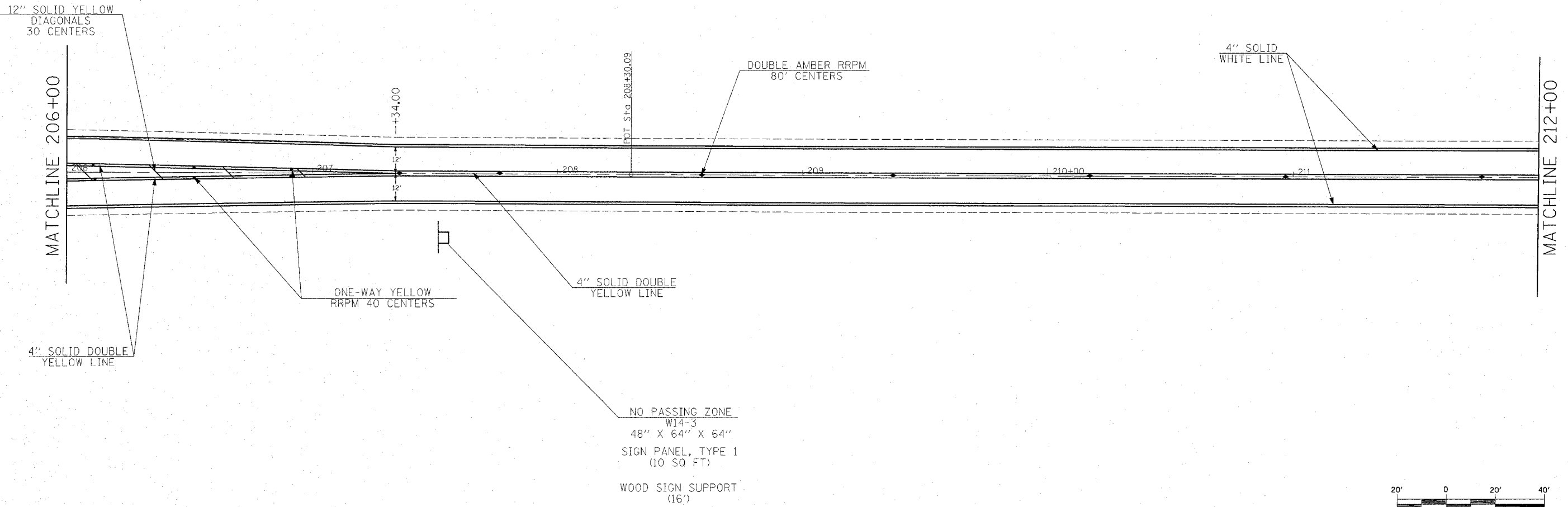
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLUT DATE = 1/23/2007  
 FILE NAME = c:\pavement\125rs-1\125i-2ts-2\pavmark03486.dgn  
 PLOT DATE = 1/23/2007 10:08 / IN  
 REFERENCE = 8024

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 22        |
| STA. 206+00           |         | TO STA. 212+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

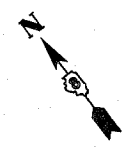
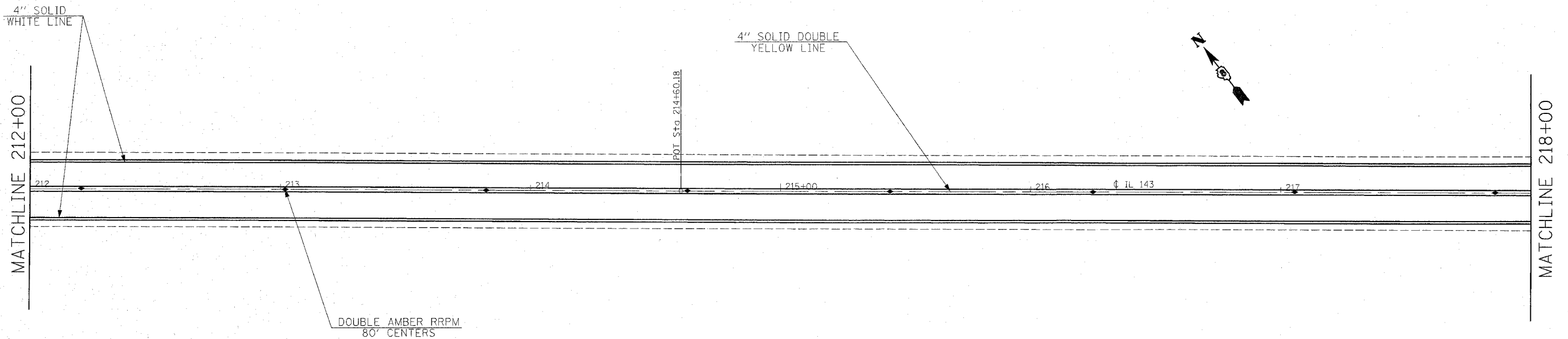
SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

NO PASSING ZONE  
 W14-3  
 48" X 64" X 64"  
 SIGN PANEL, TYPE 1  
 (10 SQ FT)  
 WOOD SIGN SUPPORT  
 (16')

PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\76994\plan\pma03466.dgn  
 PLOT FILE = 76994 / IN  
 REFERENCE = 6884

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | •       | MADISON        | 42           | 23        |
| STA. 212+00           |         | TO STA. 218+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



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

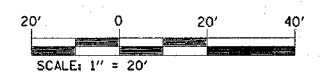
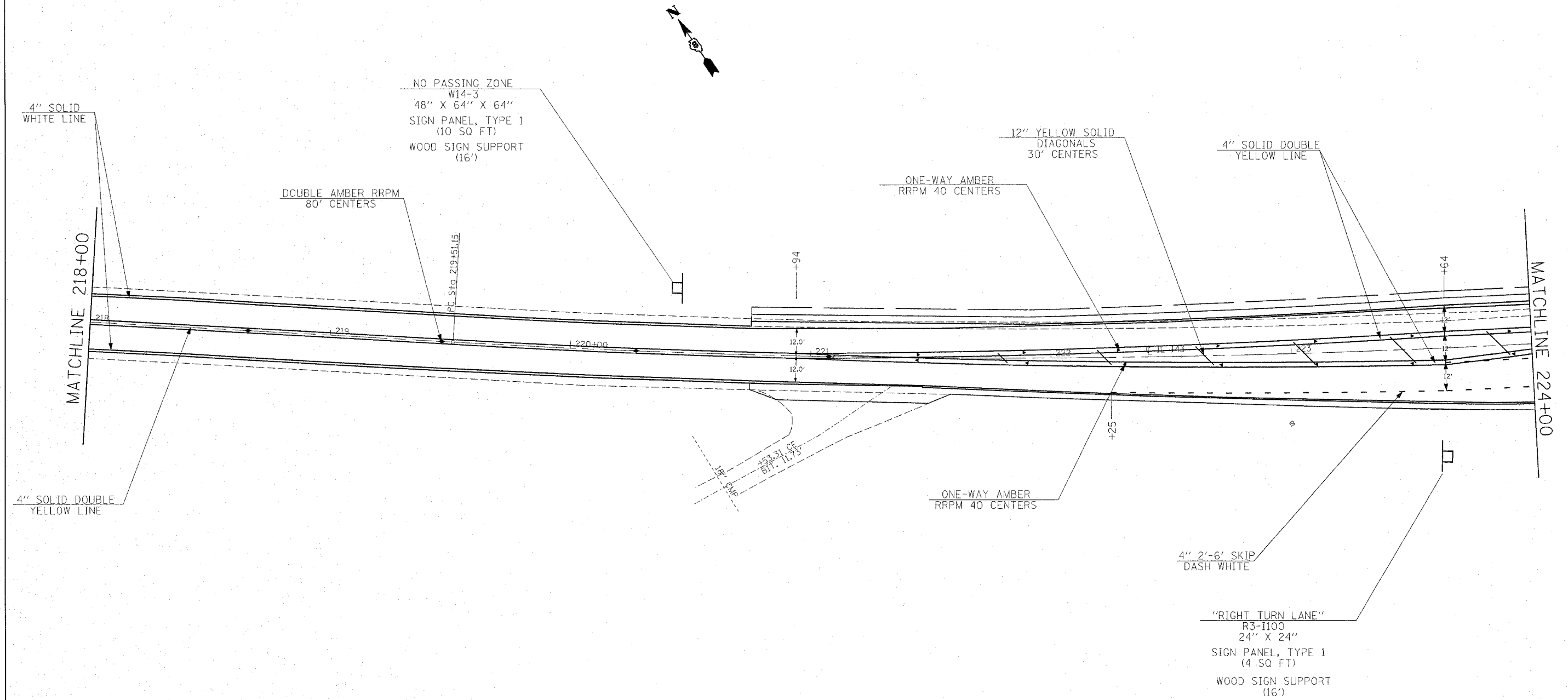
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 FILE NAME = c:\pavero\pav03486\plan\pma03486.dgn  
 SCALE = 1" = 20'  
 REFERENCE = REF#

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 24        |
| STA. 218+00           |         | TO STA. 224+00 |              |           |
| * 125RS-1, 125I-2TS-2 |         |                |              |           |



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

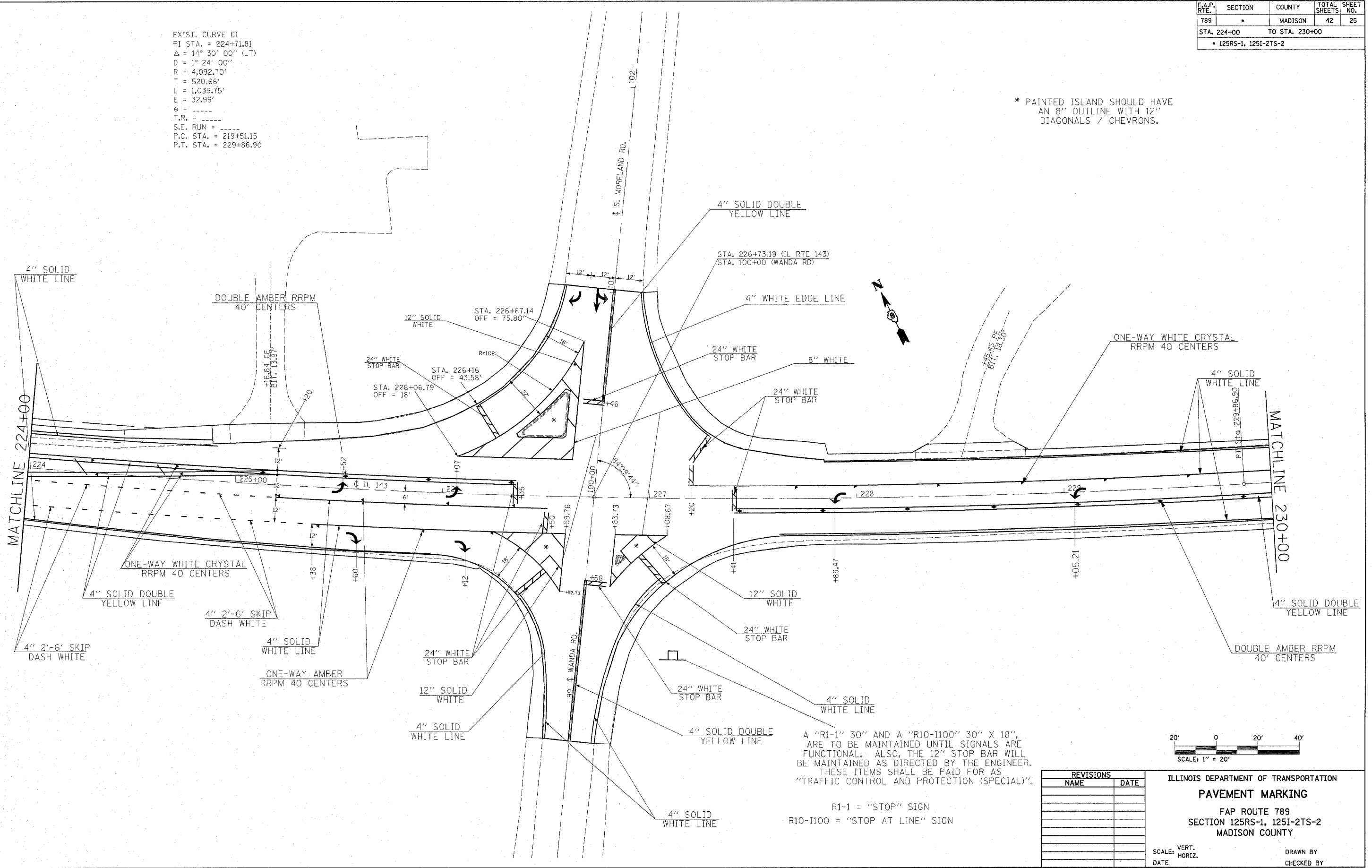
PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\789\125\125I-2TS-2\pavmark03106.dgn  
 SCALE = 1/8\"/>



| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   |         | MADISON        | 42           | 25        |
| STA. 224+00           |         | TO STA. 230+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |

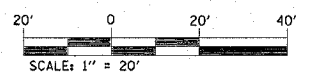
EXIST. CURVE C1  
 PI STA. = 224+71.81  
 $\Delta = 14^\circ 30' 00''$  (LT)  
 $D = 1^\circ 24' 00''$   
 $R = 4,092.70'$   
 $T = 520.66'$   
 $L = 1,035.75'$   
 $E = 32.99'$   
 $\theta =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 219+51.15$   
 $P.T. STA. = 229+86.90$

\* PAINTED ISLAND SHOULD HAVE AN 8" OUTLINE WITH 12" DIAGONALS / CHEVRONS.



A "R1-1" 30" AND A "R10-I100" 30" X 18", ARE TO BE MAINTAINED UNTIL SIGNALS ARE FUNCTIONAL. ALSO, THE 12" STOP BAR WILL BE MAINTAINED AS DIRECTED BY THE ENGINEER. THESE ITEMS SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

R1-1 = "STOP" SIGN  
 R10-I100 = "STOP AT LINE" SIGN

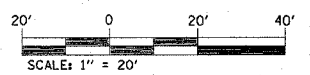
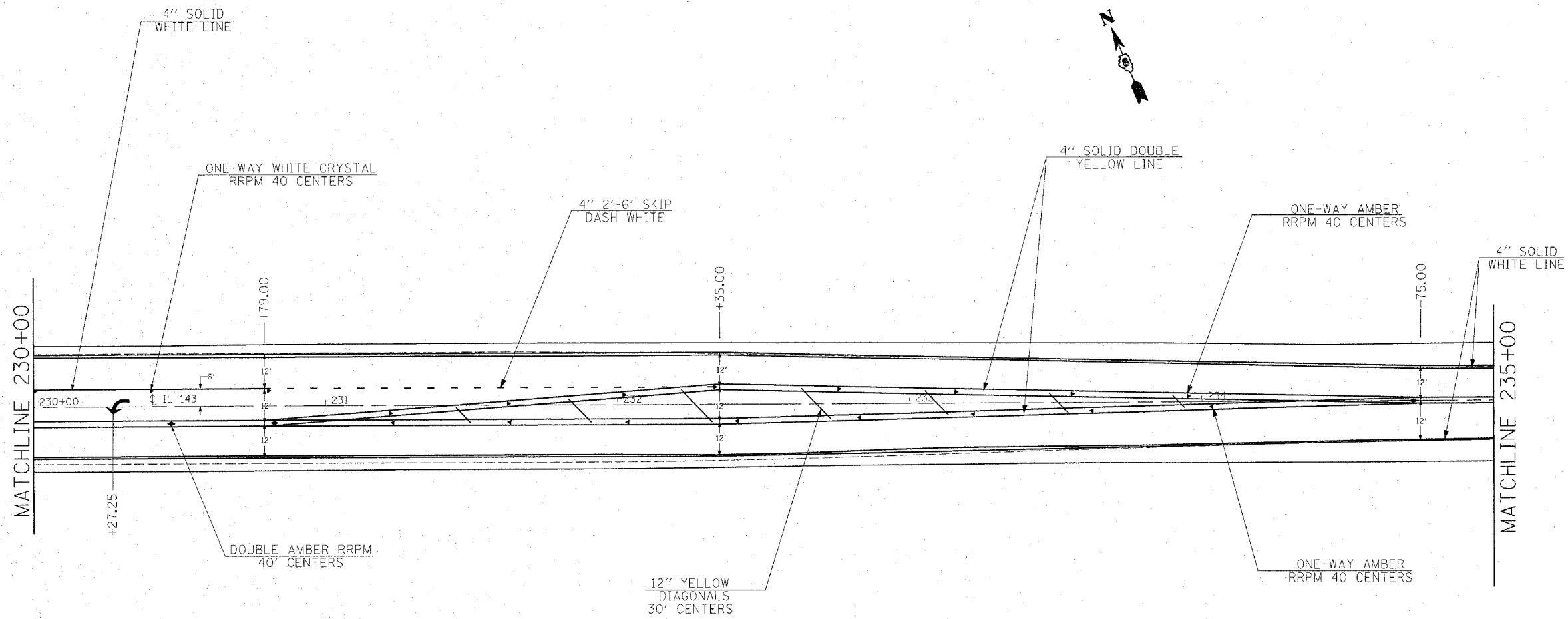


| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY  
 SCALE: VERT. \_\_\_\_\_  
 DATE \_\_\_\_\_ HORIZ. \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\76994\plan\pma803186.sudgn  
 PLOT SCALE = 20/2000 / IN.  
 REFERENCE = WBP

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   | *       | MADISON        | 42           | 26        |
| STA. 230+00           |         | TO STA. 235+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



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

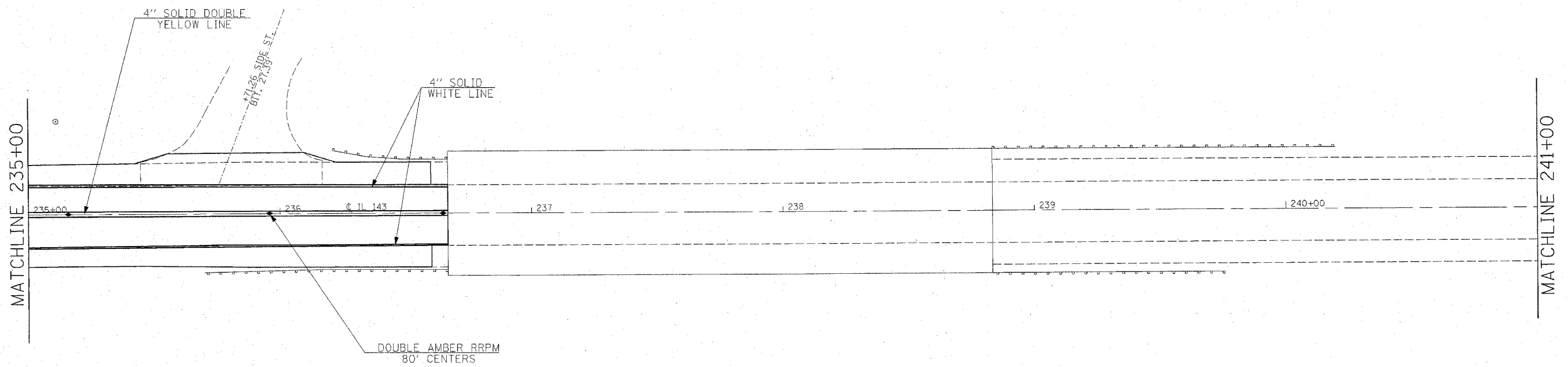
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

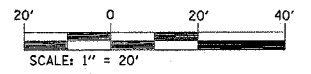
DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/23/2007  
 FILE NAME = c:\projects\76994\plan\pavemk83486.dgn  
 PLOT SCALE = 28.2000 / IN.  
 REFERENCE = 48E74

| F.A.P. RTE.           | SECTION | COUNTY         | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------------|--------------|-----------|
| 789                   |         | MADISON        | 42           | 27        |
| STA. 235+00           |         | TO STA. 241+00 |              |           |
| • 125RS-1, 125I-2TS-2 |         |                |              |           |



PLOT DATE = 1/23/2007  
 PLOT SCALE = 20' = 1" (REF)  
 REFERENCE = #REF\*



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

| F.A. RTE.                 | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| 789                       |         | MADISON                   | 42           | 28        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

| LOOP        | PHASE (Ø) | LOOP SIZE (FT) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES (µH) | CALCULATED RESISTANCE OHMS (Ω) |
|-------------|-----------|----------------|---------------------|---|--------------------------------|
| EB_CCO      | 6         | 6 X 6          | 7                   | 494                                     | 3.32                           |
| EB_THRU LN  | 6         | 6 X 50         | 3-6-3               | 853                                     | 3.11                           |
| EB_LT       | 1         | 6 X 50         | 3-6-3               | 853                                     | 3.11                           |
| EB_BT       | 6         | 6 X 30         | 3-6-3               | 557                                     | 2.60                           |
| SB_THRU LN  | 8         | 6 X 50         | 3-6-3               | 803                                     | 1.97                           |
| SB_BT LN    | 8         | 6 X 40         | 3-6-3               | 647                                     | 1.55                           |
| WB_CCO THRU | 2         | 6 X 6          | 7                   | 525                                     | 4.00                           |
| WB_CCO LT   | 5         | 6 X 6          | 7                   | 525                                     | 4.00                           |
| WB_THRU LN  | 2         | 6 X 50         | 3-6-3               | 827                                     | 2.52                           |
| WB_LT LN    | 5         | 6 X 50         | 3-6-3               | 827                                     | 2.52                           |
| WB_BT LN    | 2         | 6 X 30         | 3-6-3               | 519                                     | 1.74                           |
| NB_THRU     | 4         | 6 X 50         | 3-6-3               | 855                                     | 3.16                           |
| NB_BT       | 4         | 6 X 40         | 3-6-3               | 702                                     | 2.79                           |

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

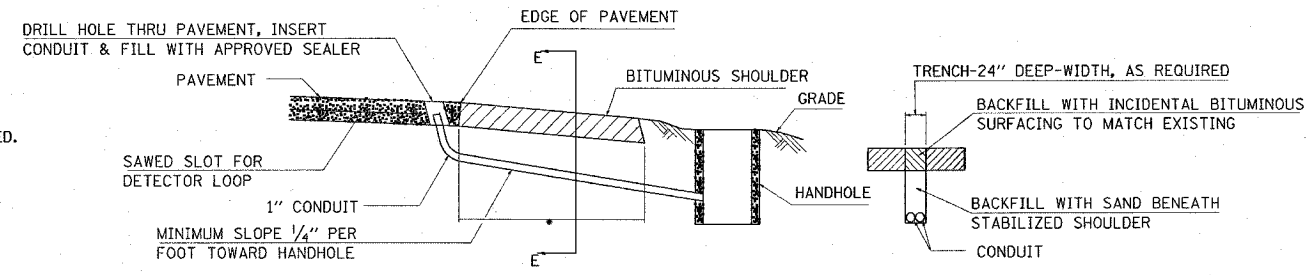
ELECTRICAL GENERAL NOTES

- ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- BACK PLATES SHALL BE ABS PLASTIC.
- THE CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
- THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
- ALL TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWS IN THE PAVEMENT.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HAND HOLE PER SECTION 873 OF THE STANDARD SPECIFICATIONS. CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD FILLED WITH NON-HARDENING EPOXY FILLER. ROSIN-CORE SOLDER SHALL BE USED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- CALL CARRYOVER SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- ALL INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED. THEY SHALL BE RACK MOUNTED.
- ALL HAND HOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(b)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HAND HOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- ACTUAL DEPTHS OF THE CONCRETE FOUNDATIONS FOR THE MAST ARM SUPPORT POLES ARE AS FOLLOWS:

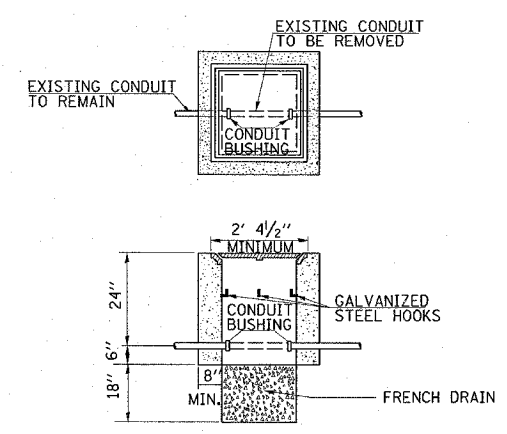
NE CORNER, 32' M.A.: 11'-0" DEEP  
 NW CORNER, 42' M.A.: 13'-0" DEEP  
 SE CORNER, 32' M.A.: 11'-0" DEEP  
 SW CORNER, 32' M.A.: 11'-0" DEEP

THESE DEPTHS ARE DETERMINED BY THE DEPARTMENT FROM THE SOIL BORING DATA.

- DETECTORS LOOPS SHALL BE PLACED IN THE BINDER COURSE PRIOR TO INSTALLING BITUMINOUS SURFACE COURSE.
- THE CONTRACTOR SHALL INSTALL FOUR (4) GROUND RODS (3/4" X 12') AND #6 AWG BARE COPPER GROUND CONDUCTORS IN THE CONTROLLER FOUNDATION AS PER THE SPECIAL PROVISION, "CONCRETE FOUNDATION, TYPE D".
- NO SERVICE POLE SHALL BE LOCATED CLOSER THAN 10' MEASURED FROM THE EDGE OF PAVEMENT FROM FAP ROUTE 789 (IL-143).
- ANCHOR BOLTS, NUTS, AND WASHER REQUIRED WITH TYPE D FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM, "CONCRETE FOUNDATION, TYPE D".
- AN UNDERGROUND "CABLE MARKING TAPE" SHALL BE INSTALLED WITH ALL TRENCH & BACK FILL FOR ELECTRICAL WORK IN ACCORDANCE WITH THE ARTICLES 815.03 (d) & 1066.05 OF THE STANDARD SPECIFICATIONS.
- CENTER TO CENTER DISTANCE BETWEEN THE CONDUITS, WHERE TWO OR MORE LOOP LEAD-IN CONDUITS ARE INSTALLED FROM THE EDGE OF THE PAVEMENT TO THE NEAREST HAND HOLE, SHALL BE SIX INCHES MINIMUM AT THE EDGE OF THE PAVEMENT.
- LOCATE UNDERGROUND CABLES PRIOR TO ATTEMPTING TO CONSTRUCT THIS PROJECT.
- A 9-1-1 ADDRESS TO OBTAIN THE ELECTRICAL SERVICE AT THIS LOCATION IS "15-1-09-31-00-000-001.003. FOR FURTHER ASSISTANCE, PLEASE CALL MR. WILLIAM H. GAMBLIN, 9-1-1 COORDINATOR, MADISON COUNTY. HIS CONTACT NUMBER IS (618) 296-5900.
- PORTABLE CHANGEABLE MESSAGE SIGNS SHALL REMAIN IN OPERATION 72 HOURS PRIOR TO AND 72 HOURS AFTER THE TRAFFIC SIGNAL TURN ON.



SEC. E-E  
 LIMITS OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)"  
 DETAIL  
 TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)  
 (NO SCALE)



DETAIL  
 HANDHOLE TO INTERCEPT EXISTING CONDUIT\*  
 \* NOT A PAY ITEM

NOTES:

- REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.
- THE CONTRACTOR SHALL BE PAID TO LOCATE THE CONDUIT UNDER OTHER PROVISIONS OF THIS CONTRACT. SEE LOCATING UNDERGROUND CABLE IN THE STANDARD SPECIFICATIONS.

TRAFFIC SIGNALS LEGEND

- EVPS EMERGENCY VEHICLE PRIORITY SYSTEM
- GSC GALVANIZED STEEL CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
- UD UNIT-DUCT
- EXISTING SIGNAL POST
- EXISTING SIGNAL POST WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING HEAVY DUTY HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONTROLLER
- EXISTING STREET NAME SIGN/TRAFFIC SIGN
- EXISTING ILLUMINATED SIGN
- EXISTING SERVICE INSTALLATION
- EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR (E.V.P.S.)
- EXISTING (E.V.P.S.) CONFIRMATION BEACON
- EXISTING SIGNAL HEAD, PEDESTRIAN
- EXISTING PEDESTRIAN PUSHBUTTON DETECTOR
- EXISTING GALVANIZED STEEL CONDUIT
- PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
- PROPOSED EMERGENCY VEHICLE SYSTEM DETECTOR (E.V.P.S.)
- PROPOSED (E.V.P.S.) CONFIRMATION BEACON
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED HEAVY DUTY HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CONTROLLER
- PROPOSED PEDESTRIAN PUSHBUTTON DETECTOR
- PROPOSED SIGNAL HEAD, PEDESTRIAN
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED
- PROPOSED STREET NAME SIGN/TRAFFIC SIGN
- PROPOSED ILLUMINATED SIGN
- PROPOSED SERVICE INSTALLATION
- PROPOSED SIGNAL POST
- PROPOSED SIGNAL POST WITH BACKPLATE

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>ELECTRICAL GENERAL NOTES,<br>LEGEND, AND DETAILS<br>FAP ROUTE 789<br>SECTION 125RS-1, 1251-2TS-2<br>COUNTY MADISON |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | SCALE: VERT. _____<br>HORIZ. _____<br>DATE _____ DRAWN BY _____<br>CHECKED BY _____   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |

PLOT DATE = 1/24/2007  
 FILE NAME = c:\puro\mca\yuan\4893486\electrical\map\ind83486a.dgn  
 PLOT SCALE = 20.1000 / IN.  
 REFERENCE = #REF#

# SCHEDULE OF QUANTITIES

| F.A.P. RYE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO |
|-------------|---------|---------|--------------|----------|
| 789         | *       | MADISON | 42           | 29       |

• 125R5-1, 1251-2T5-2

| SCHEDULE OF QUANTITIES |  |       | TOTAL QUANTITIES | IL-143 & WANDA RD |
|------------------------|--|-------|------------------|-------------------|
| CODE NO                | ITEM   | UNIT  |                  |                   |
| *7000412               | SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 2-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH  | 1                | 1                 |
| 72000100               | SIGN PANEL - TYPE 1  | SQ FT | 28               | 28                |
| 72000200               | SIGN PANEL - TYPE 2  | SQ FT | 30               | 30                |
| 72400310               | REMOVE SIGN PANEL - TYPE 1   | SQ FT | 12.5             | 12.5              |
| 80300100               | LOCATING UNDERGROUND CABLE   | FOOT  | 175              | 175               |
| 80500100               | SERVICE INSTALLATION, TYPE A   | EACH  | 1                | 1                 |
| 81012300               | CONDUIT IN TRENCH, 1" DIA., PVC  | FOOT  | 147              | 147               |
| 81012500               | CONDUIT IN TRENCH, 1 1/2" DIA., PVC  | FOOT  | 21               | 21                |
| 81012600               | CONDUIT IN TRENCH, 2" DIA., PVC  | FOOT  | 140              | 140               |
| 81012700               | CONDUIT IN TRENCH, 2 1/2" DIA., PVC  | FOOT  | 10               | 10                |
| 81012800               | CONDUIT IN TRENCH, 3" DIA., PVC  | FOOT  | 30               | 30                |
| 81013000               | CONDUIT IN TRENCH, 4" DIA., PVC  | FOOT  | 8                | 8                 |
| 81013400               | CONDUIT PUSHED, 1 1/2" DIA., GALVANIZED STEEL                                      | FOOT  | 46               | 46                |
| 81014500               | CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL  | FOOT  | 80               | 80                |
| 81018600               | CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL                                      | FOOT  | 55               | 55                |
| 81018700               | CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL  | FOOT  | 122              | 122               |
| 81400700               | HANDHOLE, PORTLAND CEMENT CONCRETE   | EACH  | 4                | 4                 |
| 81400720               | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE  | EACH  | 1                | 1                 |
| 81900200               | TRENCH AND BACKFILL FOR ELECTRICAL WORK  | FOOT  | 243              | 243               |
| 81900205               | TRENCH AND BACKFILL FOR ELECTRICAL WORK (SPECIAL)                                  | FOOT  | 36               | 36                |
| 85000500               | MAINTENANCE OF EXISTING FLASHING BEACON INSTALLATION                               | EACH  | 1                | 1                 |
| 85700200               | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET                                       | EACH  | 1                | 1                 |
| 85800300               | FLASHER CONTROLLER, WITHOUT CABINET  | EACH  | 1                | 1                 |
| 87301115               | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 2C  | FOOT  | 2115             | 2115              |
| 87301245               | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C  | FOOT  | 3100             | 3100              |

| SCHEDULE OF QUANTITIES |  |        | TOTAL QUANTITIES | IL-143 & WANDA RD |
|------------------------|--|--------|------------------|-------------------|
| CODE NO                | ITEM   | UNIT   |                  |                   |
| 87301255               | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C  | FOOT   | 920              | 920               |
| 87301305               | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                                  | FOOT   | 3200             | 3200              |
| 87301805               | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                                      | FOOT   | 30               | 30                |
| 87700200               | STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.   | EACH   | 3                | 3                 |
| 87700250               | STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.   | EACH   | 1                | 1                 |
| 87800200               | CONCRETE FOUNDATION, TYPE D  | FOOT   | 3                | 3                 |
| 87800415               | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER                                       | FOOT   | 46               | 46                |
| 87900200               | DRILL EXISTING HANDHOLE  | EACH   | 5                | 5                 |
| 88040070               | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH   | 1                | 1                 |
| 88040090               | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED               | EACH   | 8                | 8                 |
| 88040120               | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED               | EACH   | 2                | 2                 |
| 88040230               | SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                | EACH   | 1                | 1                 |
| 88040250               | SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED | EACH   | 1                | 1                 |
| 88200300               | TRAFFIC SIGNAL BACKPLATE, PLASTIC  | EACH   | 10               | 10                |
| 88500100               | INDUCTIVE LOOP DETECTOR  | EACH   | 12               | 12                |
| 88600100               | DETECTOR LOOP, TYPE I  | FOOT   | 1700             | 1700              |
| 89502300               | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT   | 2360             | 2360              |
| 89502375               | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH   | 1                | 1                 |
| 89502380               | REMOVE EXISTING HANDHOLE   | EACH   | 1                | 1                 |
| X0301183               | GEOMETRICALLY PROGRAMMED LOUVER  | EACH   | 2                | 2                 |
| X7015005               | CHANGEABLE MESSAGE SIGN  | CAL DA | 7                | 7                 |
| X8730027               | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C                                     | FOOT   | 2238             | 2238              |

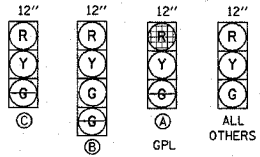
PLOT DATE = 1/24/2007  
 FILE NAME = c:\pcc\pccsa\view\ad83408\electr\top\ad83408a.dgn  
 PLOT SCALE = 50.0000 / IN.  
 REFERENCE = REF#

| F.A.E. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--------------------------|---------|---|--------------|-----------|
| 789                      | *       | MADISON   | 42           | 30        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |

\* 125RS-1, 125I-2TS-2

FULL-ACTUATED CONTROLLER AND TYPE IV CABINET AND FLASHER CONTROLLER

| PROPOSED SEQUENCE OF OPERATION |        |        |      |      |        |        |          |          |
|--------------------------------|--------|--------|------|------|--------|--------|----------|----------|
| PHASE                          | 1      | 2      | 3    | 4    | 5      | 6      | 7        | 8        |
| MOVEMENT                       | ←      | ←      | ←    | ←    | ←      | ←      | ←        | ←        |
| CONCURRENT MOVEMENT PERMITTED  | 5 OR 6 | 5 OR 6 | NONE | NONE | 1 OR 2 | 1 OR 2 | NOT USED | NOT USED |

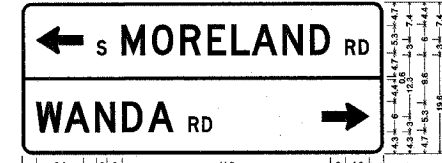


LEFT TURN SIGNAL

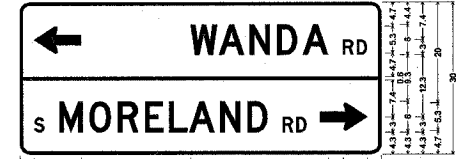
R10-10  
24 x 30

PROPOSED TRAFFIC SIGNAL FACES  
NOT TO SCALE

NOT TO SCALE

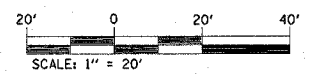
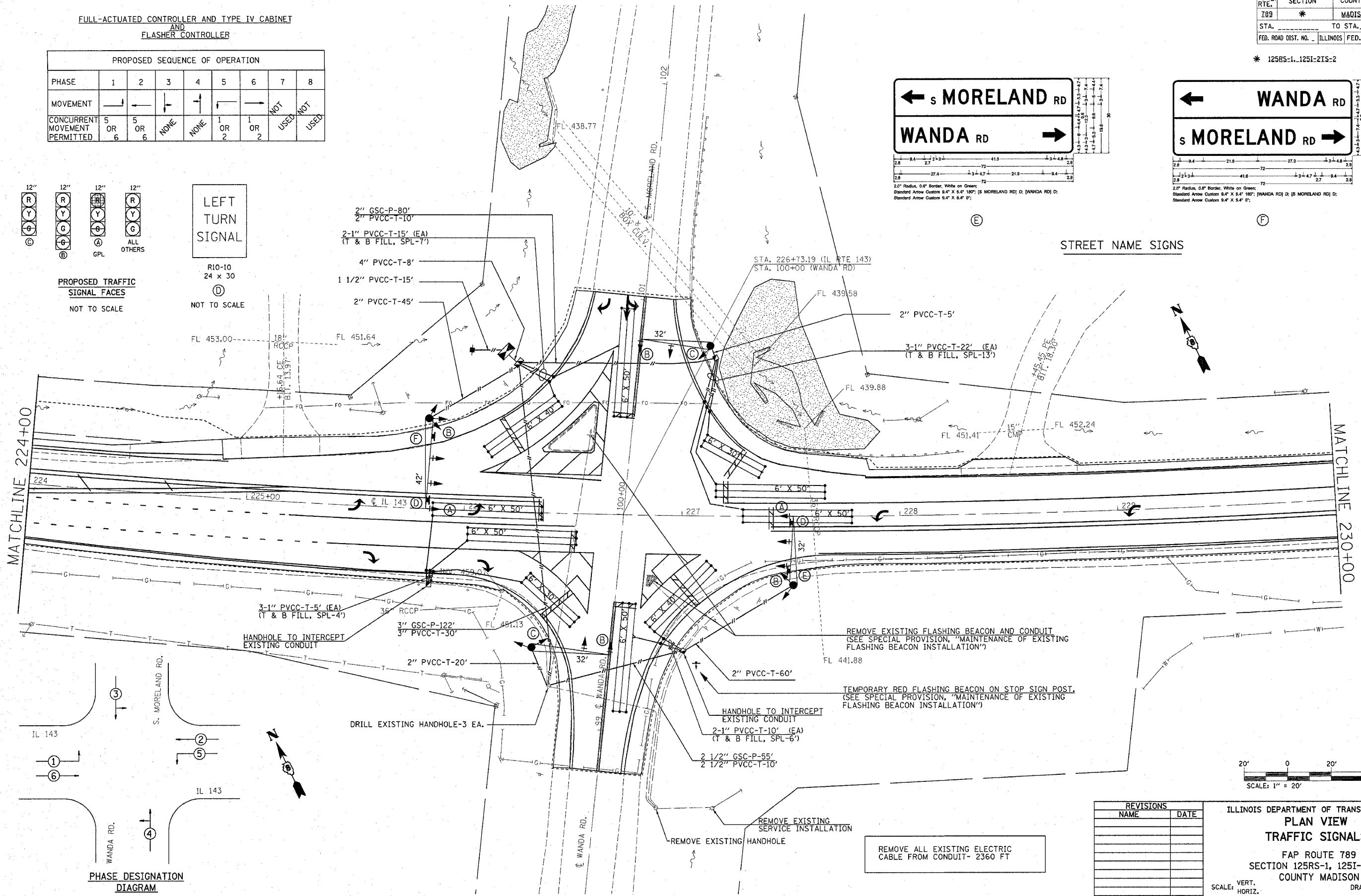


2 1/2" Radius, 0.6" Border, White on Green  
Standard Arrow Custom 8.4" X 5.4" 180°; (S MORELAND RD) D; (WANDA RD) D;  
Standard Arrow Custom 8.4" X 5.4" 0°;

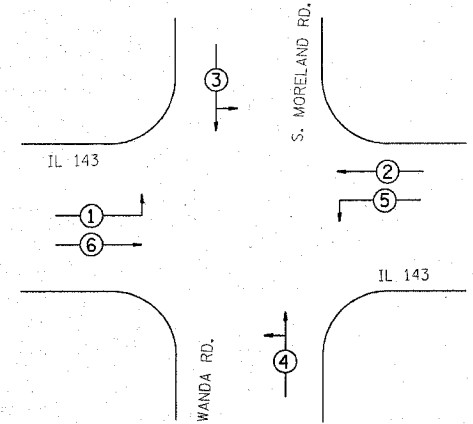


2 1/2" Radius, 0.6" Border, White on Green  
Standard Arrow Custom 8.4" X 5.4" 180°; (WANDA RD) D; (S MORELAND RD) D;  
Standard Arrow Custom 8.4" X 5.4" 0°;

STREET NAME SIGNS



PHASE DESIGNATION DIAGRAM



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

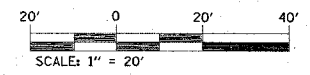
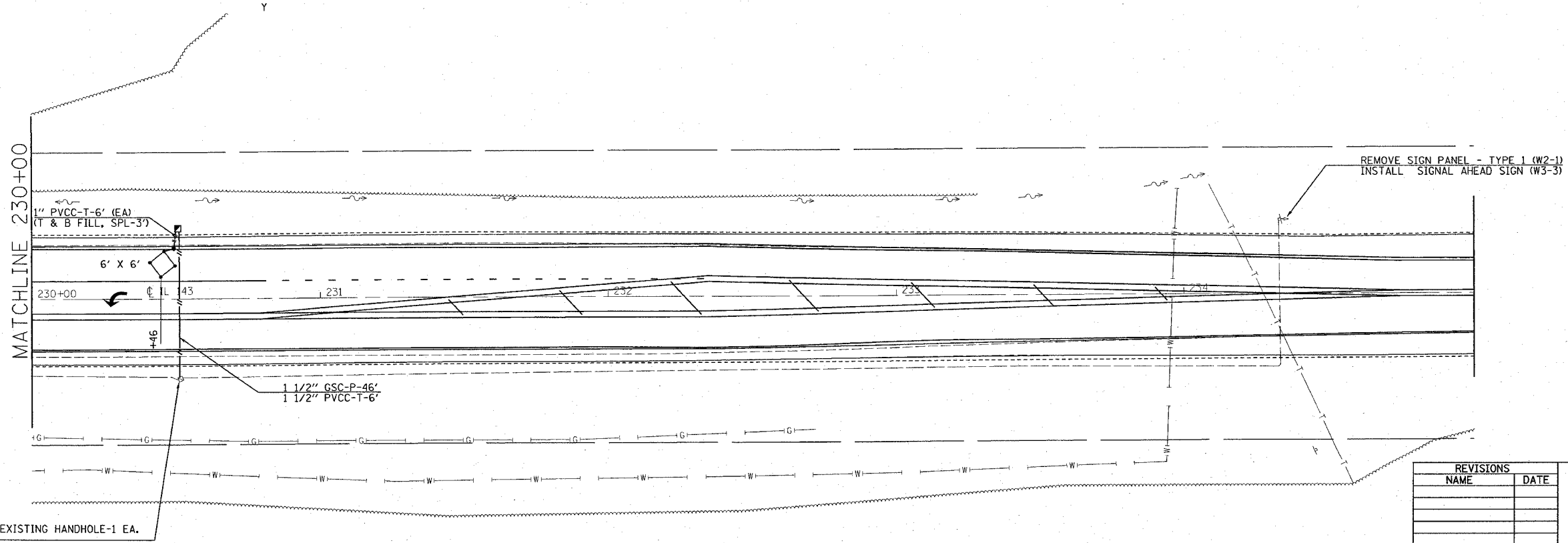
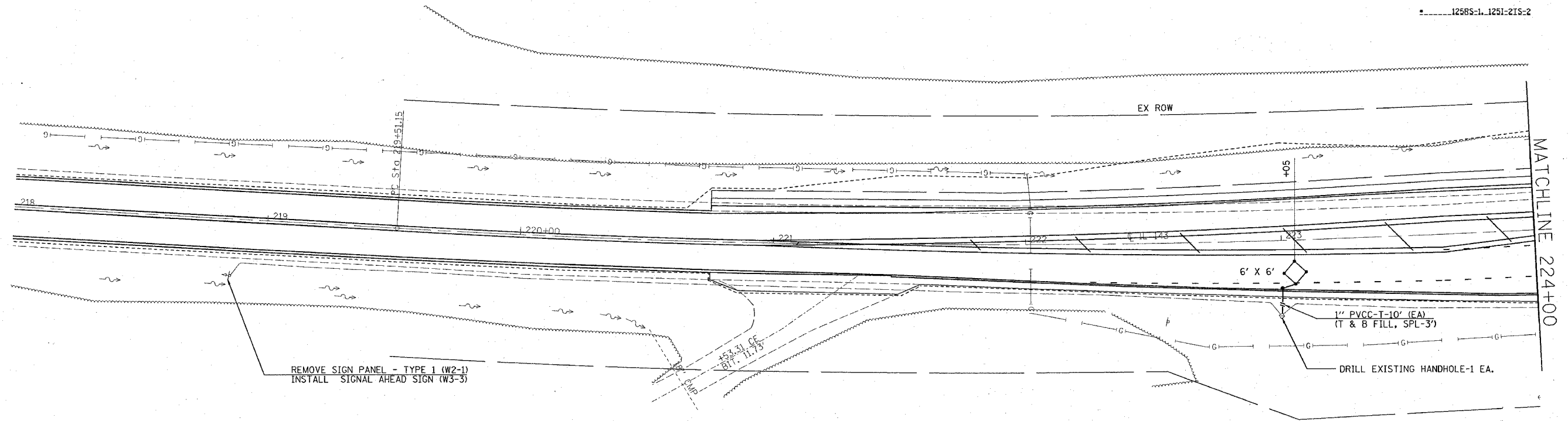
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
**TRAFFIC SIGNALS**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 COUNTY MADISON  
 SCALE: VERT. \_\_\_\_\_  
 DATE \_\_\_\_\_ HORIZ. \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/24/2007  
 FILE NAME = c:\projects\view\483486\electrical\sp183186a.dgn  
 PLOT SCALE = 2822800 / 7 IN.  
 REFERENCE = 482876

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | #       | MADISON | 42           | 31        |

|                       |                           |
|-----------------------|---------------------------|
| STA.                  | TO STA.                   |
| FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT |

125RS-1, 125I-2TS-2



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
**TRAFFIC SIGNALS**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 COUNTY MADISON

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

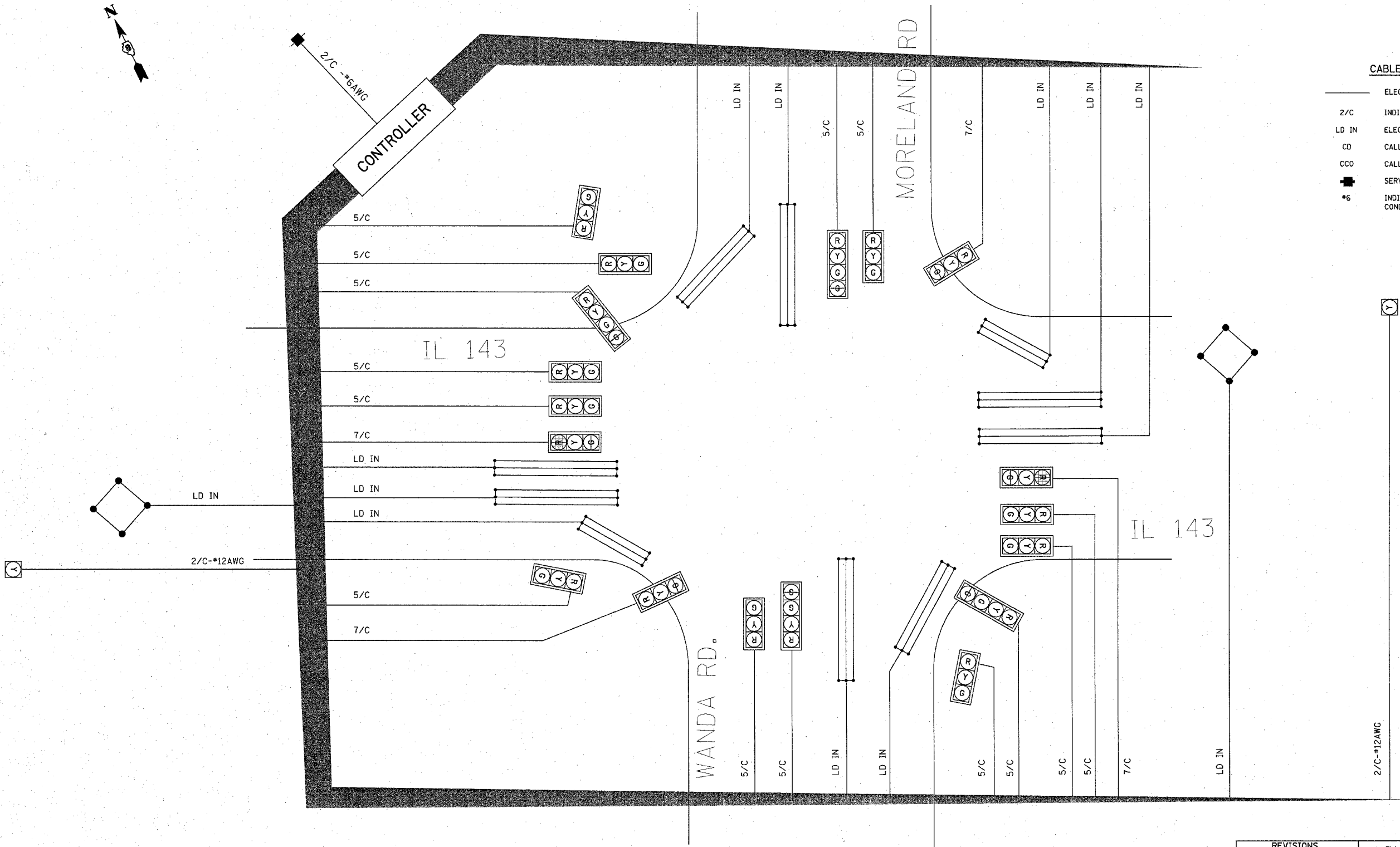
PLT DATE = 1/24/2007  
 FILE NAME = \\server\projects\electrical\trp\031606a.dgn  
 PLOT SCALE = 20.1/1000 = 1/50 IN.  
 REFERENCE = SHEET#

| F.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| 789                       |         | MADISON                   | 42           | 32        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

• 125RS-1, 125I-2TS-2

**CABLE DIAGRAM LEGEND**

- ELECTRIC CABLE IN CONDUIT
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- LD IN ELECTRIC CABLE LEAD-IN, 1 PAIR
- CD CALL DELAY (SEE GENERAL NOTES)
- CCO CALL CARRY OVER (SEE GENERAL NOTES)
- SERVICE INSTALLATION
- #6 INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)



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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE DIAGRAM**  
**TRAFFIC SIGNALS**  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 COUNTY MADISON  
 SCALE: VERT. \_\_\_\_\_  
 DATE \_\_\_\_\_ HORIZ. \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 1/24/2007  
 FILE NAME = c:\projects\new\and846\electrical\wpln03468.dgn  
 PLOTTER = HP DesignJet 5000  
 REFERENCE = #REF#



| FAP ROUTE          | SECTION             | COUNTY        | TOTAL SHEETS | SHEET NO |
|--------------------|---------------------|---------------|--------------|----------|
| 789                | 125RS-1, 1251-2TS-1 | MADISON       | 42           | 32 A     |
| STA. _____         |                     | TO STA. _____ |              |          |
| CONTRACT NO. _____ |                     |               |              |          |

**Illinois Department of Transportation**  
 Division of Highways  
**SOIL BORING LOG**  
 Page 1 of 1  
 Date 12/14/06

ROUTE FAP 789 DESCRIPTION IL 143 @ Wanda/Moreland Road LOGGED BY E. Stewart

SECTION 125RS-1, 1251-2TS-2 LOCATION NW 14, SEC. 31, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A U C S O I S  
 Station N/A D E P T H W S O U T  
 Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft

BORING NO. #1 SE Quad  
 Station 227+50 Groundwater Elev.:  
 Offset 32.00ft Right First Encounter 85.6 ft  
 Ground Surface Elev. 100 ft (ft) (ft) (ft) (ft) (%)  
 Upon Completion 85.6 ft  
 After 85.6 ft

|      |      |    |
|------|------|----|
| 1.90 | 25   |    |
| 1.50 | 24   |    |
| 1.00 | 25   |    |
| 97.0 | 26   |    |
| 1.38 | 26   |    |
| 1.10 | 19   |    |
| 85.0 | 5    |    |
| 1.10 | 22   |    |
| 1.70 | 21   |    |
| 1.00 | 23   |    |
| 1.00 | 27   |    |
| 1.00 | 20   |    |
| 89.0 | 0.50 | 21 |
| 1.25 | 28   |    |
| 1.35 | 30   |    |
| 2.00 | 39   |    |
| 1.75 | 32   |    |
| 1.20 | 34   |    |
| 84.0 |      |    |

End of Hand Auger

Pocket Penetrometer used for Qu

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

**Illinois Department of Transportation**  
 Division of Highways  
**SOIL BORING LOG**  
 Page 1 of 1  
 Date 12/19/06

ROUTE FAP 789 DESCRIPTION IL 143 @ Wanda/Moreland Road LOGGED BY E. Stewart

SECTION 125RS-1, 1251-2TS-2 LOCATION NW 14, SEC. 31, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A U C S O I S  
 Station N/A D E P T H W S O U T  
 Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft

BORING NO. #3 NW Quad  
 Station 225+52 Groundwater Elev.:  
 Offset 42.00ft Left First Encounter 85.0 ft  
 Ground Surface Elev. 100 ft (ft) (ft) (ft) (ft) (%)  
 Upon Completion 85.0 ft  
 After 85.0 ft

|      |      |    |
|------|------|----|
| 1.00 | 18   |    |
| 0.75 | 16   |    |
| 1.55 | 20   |    |
| 2.40 | 19   |    |
| 95.5 | 1.60 | 20 |
| -6   | 1.50 | 20 |
| 84.0 | 1.00 | 25 |
| 1.00 | 27   |    |
| 1.50 | 28   |    |
| 1.50 | 28   |    |
| 1.00 | 27   |    |
| 89.5 | 1.50 | 28 |
| 1.00 | 28   |    |
| 1.00 | 28   |    |
| 87.0 | 1.25 | 27 |
| 1.30 | 28   |    |
| 84.0 | 1.00 | 32 |
| 1.15 | 28   |    |
| 84.0 |      |    |

End of Hand Auger

Pocket Penetrometer used for Qu

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

**Illinois Department of Transportation**  
 Division of Highways  
**SOIL BORING LOG**  
 Page 1 of 1  
 Date 12/14/06

ROUTE FAP 789 DESCRIPTION IL 143 @ Wanda/Moreland Road LOGGED BY E. Stewart

SECTION 125RS-1, 1251-2TS-2 LOCATION NW 14, SEC. 31, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A U C S O I S  
 Station N/A D E P T H W S O U T  
 Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft

BORING NO. #2 NE Quad  
 Station 227+11 Groundwater Elev.:  
 Offset 78.00ft Left First Encounter Dry Hole ft  
 Ground Surface Elev. 100 ft (ft) (ft) (ft) (ft) (%)  
 Upon Completion Dry Hole ft  
 After Dry Hole ft

|      |      |    |
|------|------|----|
| 1.00 | 25   |    |
| 1.25 | 19   |    |
| 1.25 | 23   |    |
| 2.60 | 20   |    |
| 86.0 | 2.50 | 21 |
| -6   | 1.75 | 20 |
| 84.0 | 1.55 | 24 |
| 1.75 | 24   |    |
| 1.85 | 23   |    |
| 91.0 | 1.90 | 23 |
| -10  | 1.50 | 21 |
| 1.00 | 21   |    |
| 1.75 | 20   |    |
| 1.50 | 20   |    |
| 1.10 | 20   |    |
| 1.55 | 20   |    |
| 84.0 |      |    |

End of Hand Auger

Pocket Penetrometer used for Qu

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

**Illinois Department of Transportation**  
 Division of Highways  
**SOIL BORING LOG**  
 Page 1 of 1  
 Date 12/14/06

ROUTE FAP 789 DESCRIPTION IL 143 @ Wanda/Moreland Road LOGGED BY E. Stewart

SECTION 125RS-1, 1251-2TS-2 LOCATION NW 14, SEC. 31, TWP. 3N, RNG. 8W, 3 PM

COUNTY Madison DRILLING METHOD Hand Auger HAMMER TYPE \_\_\_\_\_

STRUCT. NO. N/A U C S O I S  
 Station N/A D E P T H W S O U T  
 Surface Water Elev. N/A ft  
 Stream Bed Elev. N/A ft

BORING NO. #4 SW Quad  
 Station 226+38 Groundwater Elev.:  
 Offset 72.00ft Right First Encounter 89.0 ft  
 Ground Surface Elev. 100 ft (ft) (ft) (ft) (ft) (%)  
 Upon Completion 89.0 ft  
 After 89.0 ft

|      |      |    |
|------|------|----|
| 1.25 | 18   |    |
| 1.25 | 18   |    |
| 2.75 | 15   |    |
| 97.0 | NC   | 18 |
| 96.0 | 0.75 | 20 |
| -6   | 1.25 | 18 |
| 1.10 | 20   |    |
| 1.35 | 24   |    |
| 92.0 | 1.85 | 26 |
| 1.80 | 23   |    |
| -10  | 1.85 | 29 |
| 1.00 | 30   |    |
| 0.55 | 31   |    |
| 1.10 | 31   |    |
| 1.13 | 33   |    |
| 1.10 | 30   |    |
| 84.0 |      |    |

End of Hand Auger

Pocket Penetrometer used for Qu

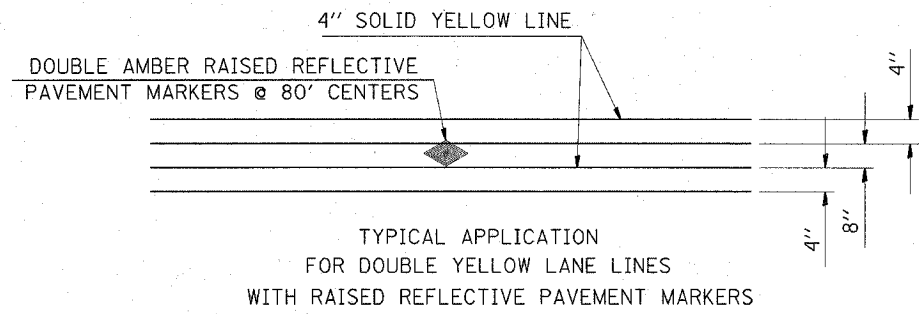
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SOIL BORING LOGS**  
 FAP ROUTE 789  
 SECTION 125RS-1, 1251-2TS-1  
 MADISON COUNTY

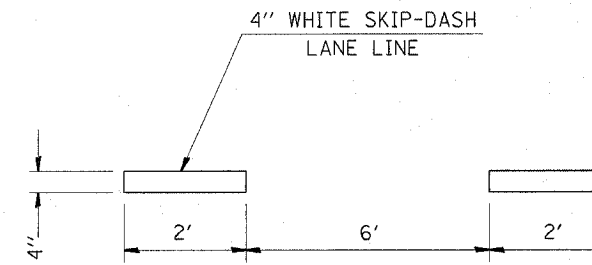
PLOT DATE: 1/22/2007

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | *       | MADISON | 42           | 33        |

\* 125RS-1, 125I-2TS-2

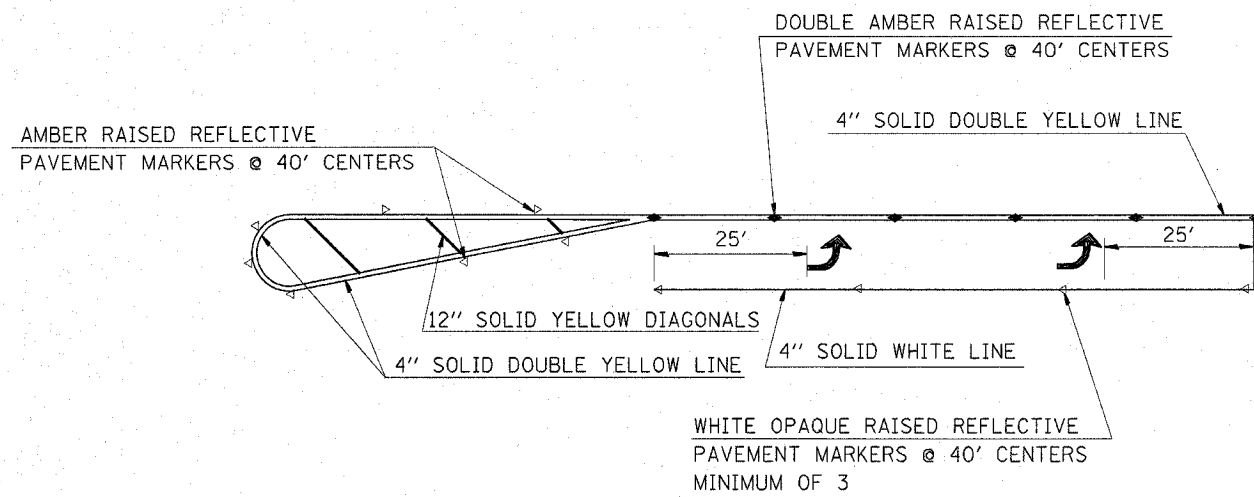


PAVEMENT MARKING DETAIL A



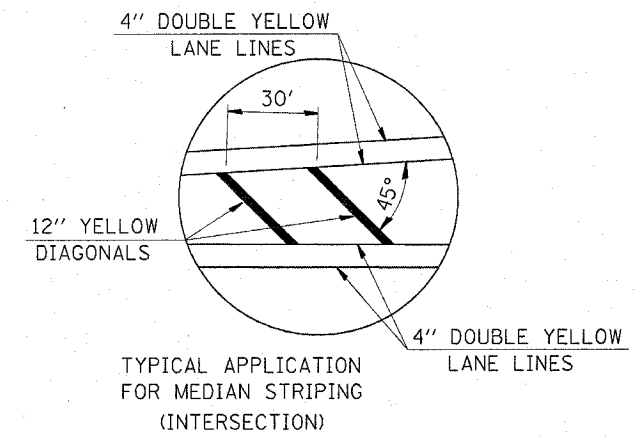
TYPICAL APPLICATION FOR WHITE SKIP-DASH LANE LINES

PAVEMENT MARKING DETAIL C



TYPICAL APPLICATION FOR LEFT TURN LANE WITH RAISED REFLECTIVE PAVEMENT MARKERS

PAVEMENT MARKING DETAIL B



TYPICAL APPLICATION FOR MEDIAN STRIPING (INTERSECTION)

PAVEMENT MARKING DETAIL D  
NOT TO SCALE

PLOT DATE = 1/22/2007  
FILE NAME = c:\pwork\projects\1251\1251-2TS-2\plm\plm083406.dgn  
PLOT SCALE = 5/8"=1'-0"  
REFERENCE = #REF#

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

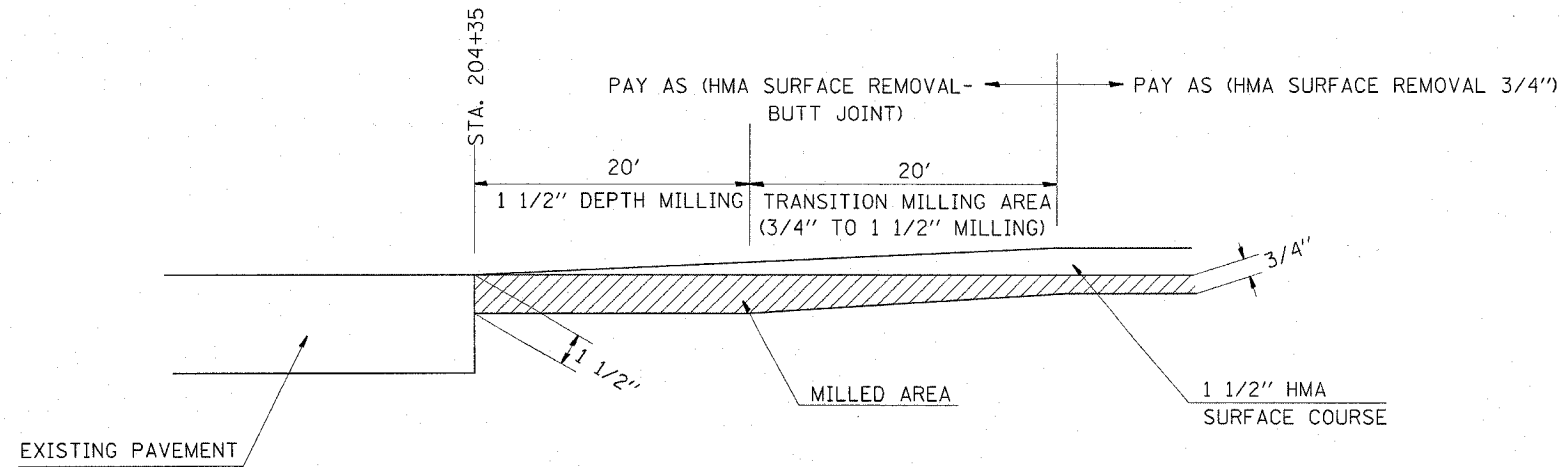
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

SCALE: VERT. DATE  
HORIZ.

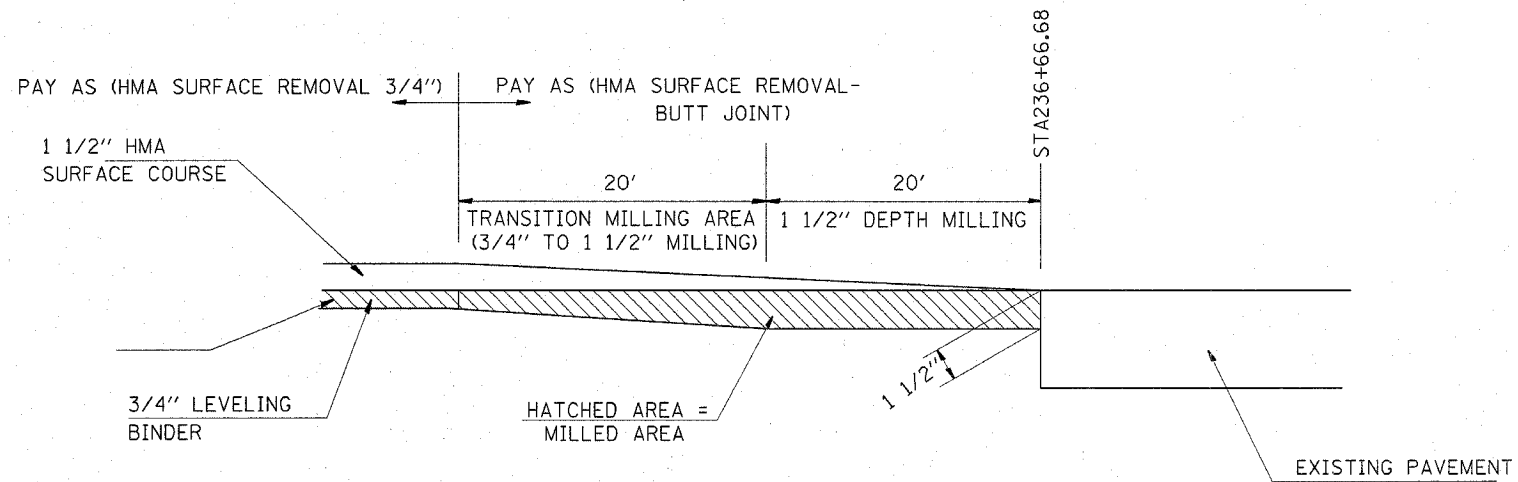
DRAWN BY  
CHECKED BY

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | •       | MADISON | 42           | 34        |

• 125RS-1, 125I-2TS-2



HMA SURFACE REMOVAL - BUTT JOINT  
(STA. 204+35 TO STA. 204+75)



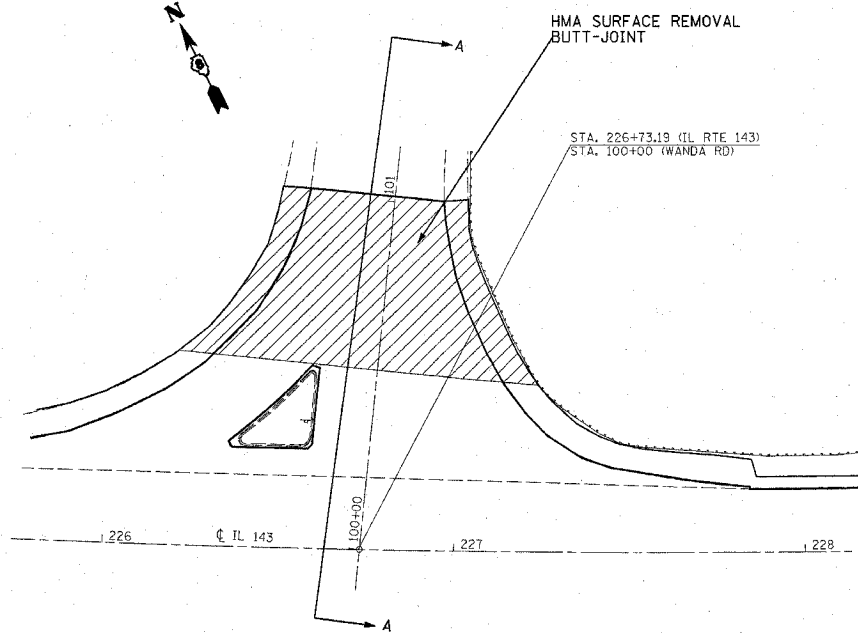
HMA SURFACE REMOVAL - BUTT JOINT  
(STA. 236+26.68 TO STA. 236+66.68)

PLOT DATE = 1/22/2007  
 PLOT SCALE = 1/4" = 1'-0"  
 PLOT REFERENCE = REFERENCE

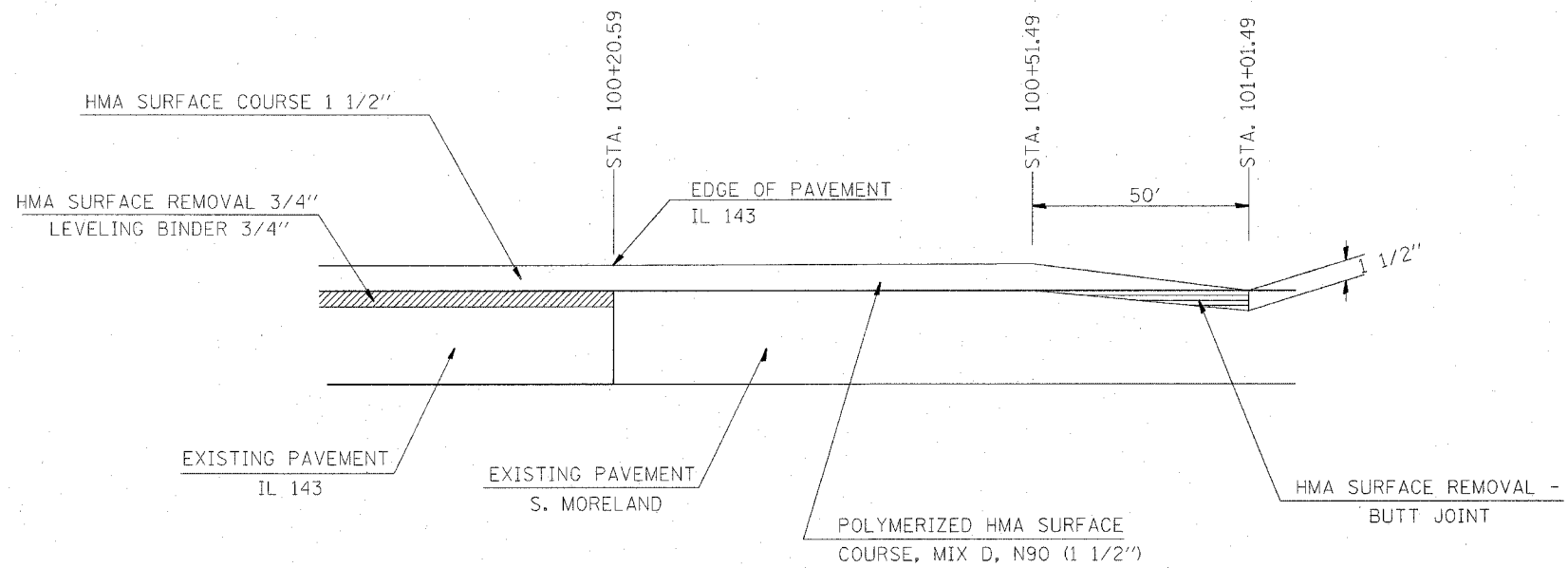
| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>MISCELLANEOUS DETAILS  |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | FAP ROUTE 789<br>SECTION 125RS-1, 125I-2TS-2<br>MADISON COUNTY<br>SCALE: VERT. _____<br>HORIZ. _____<br>DATE _____ DRAWN BY _____<br>CHECKED BY _____ |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | *       | MADISON | 42           | 35        |

\* 125RS-1, 125I-2TS-2



SOUTH MORELAND ROAD ENTRANCE DETAIL  
PLAN VIEW



SOUTH MORELAND ROAD  
SECTION A-A

PLOT DATE = 1/22/2007  
 PLOT SCALE = 60.0000 / IN.  
 REFERENCE = SREF#

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MISCELLANEOUS DETAILS**

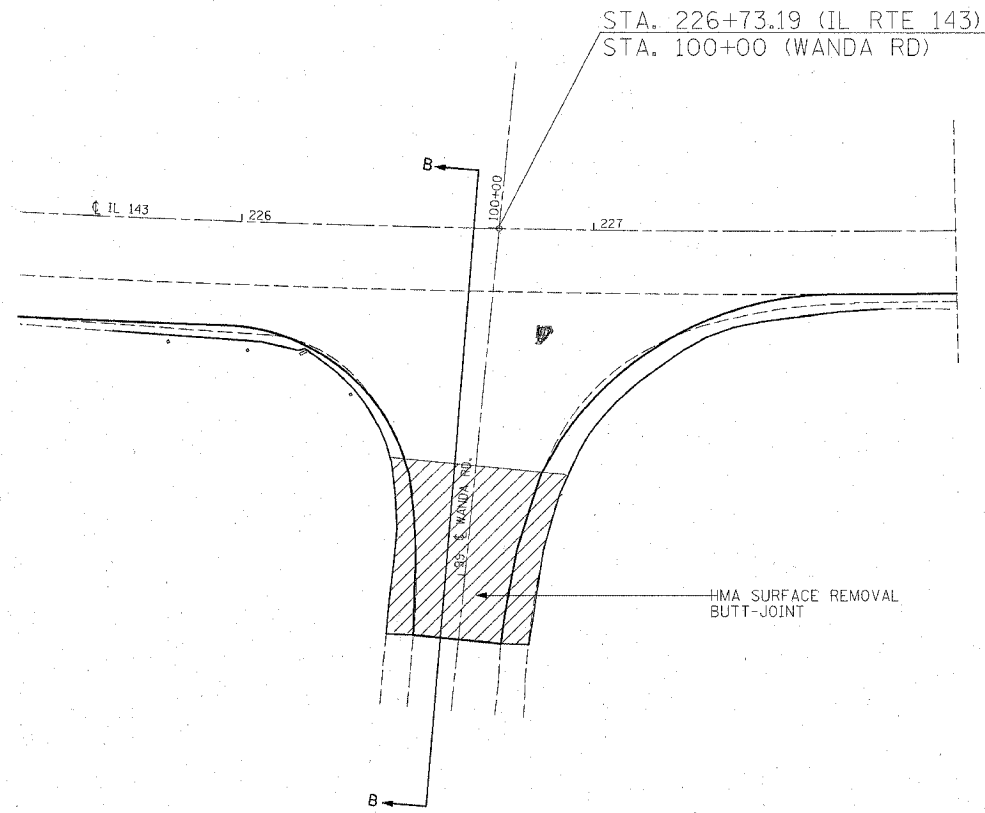
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_

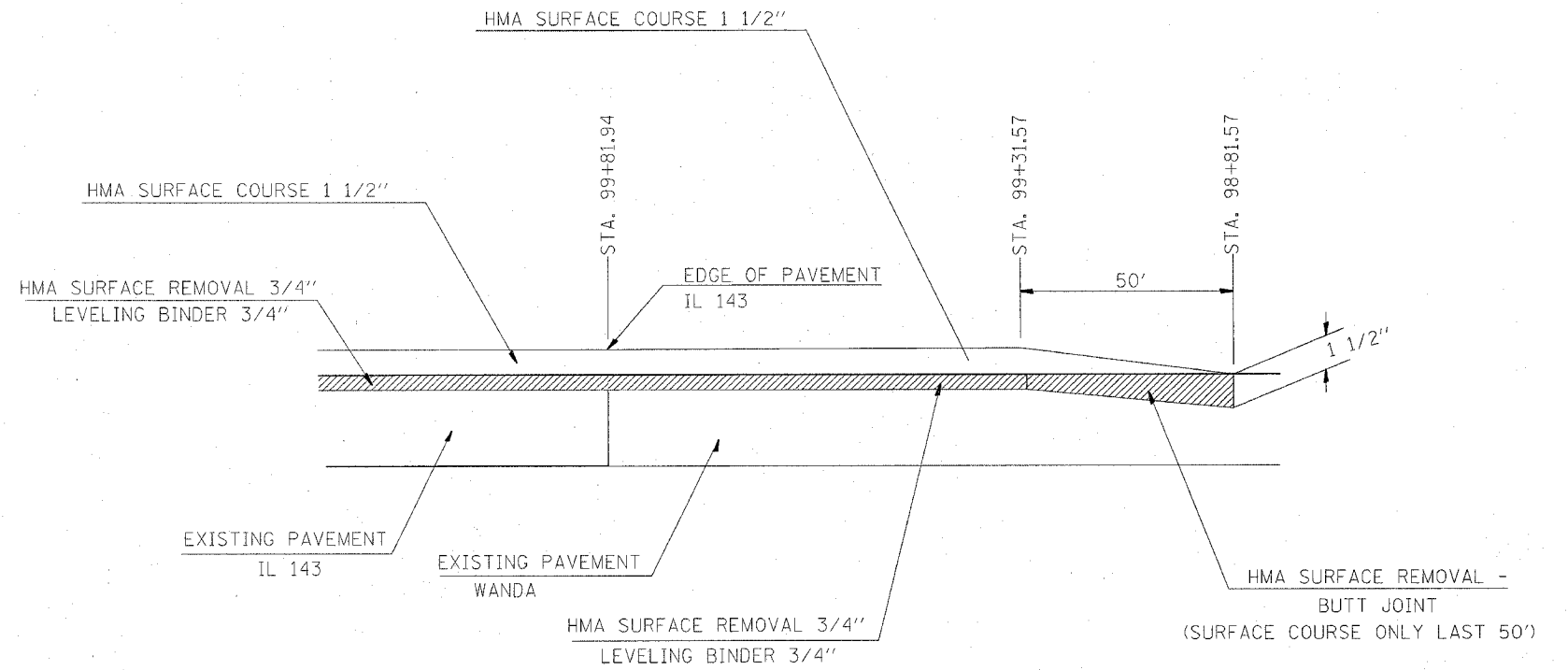
DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | •       | MADISON | 42           | 36        |

• 125RS-1, 125I-2TS-2



WANDA ROAD ENTRANCE DETAIL  
PLAN VIEW



WANDA ROAD  
SECTION B-B

PLOT DATE = 1/22/2007  
 PLOT SCALE = 5/8" = 1' IN.  
 REFERENCE = #REF#

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

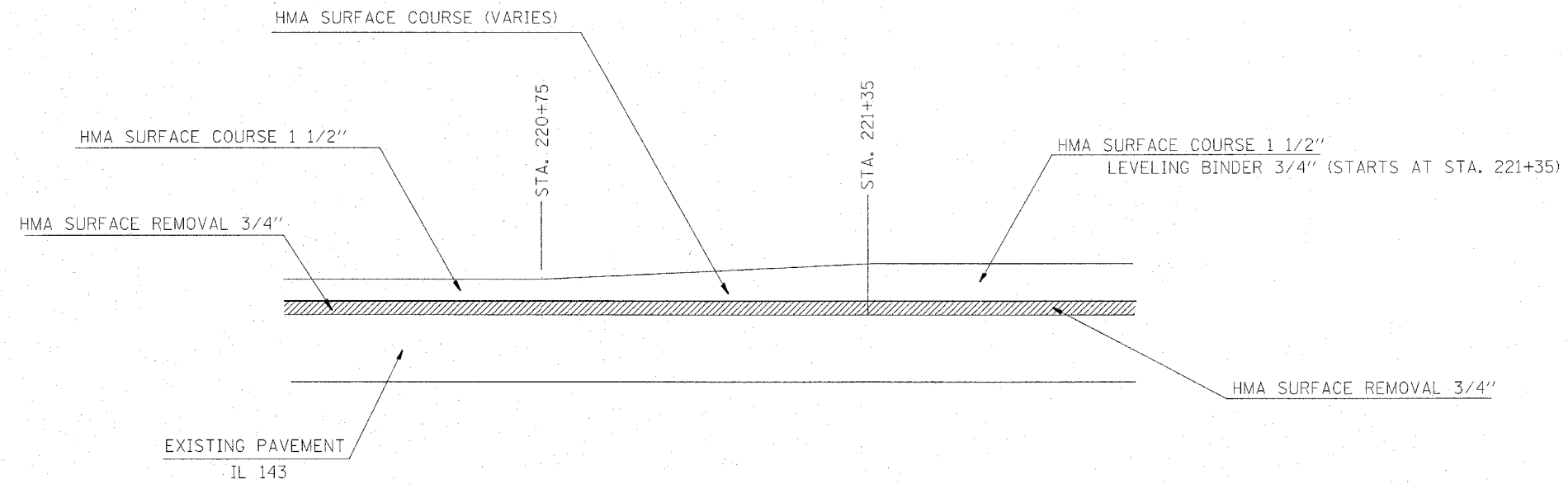
ILLINOIS DEPARTMENT OF TRANSPORTATION  
MISCELLANEOUS DETAILS

FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

SCALE: VERT.      DRAWN BY  
 HORIZ.              CHECKED BY  
 DATE

| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | •       | MADISON | 42           | 37        |

• 125RS-1, 125I-2TS-2



HMA REMOVAL / RESURFACING TRANSITION

PLOT DATE = 1/22/2007  
 FILE NAME = c:\projects\aed34085\plan\pl1251486a.dgn  
 PLOT SCALE = 50'-0000' / 1" = REF#

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MISCELLANEOUS DETAILS**

FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

SCALE: VERT.  
 HORIZ.  
 DATE

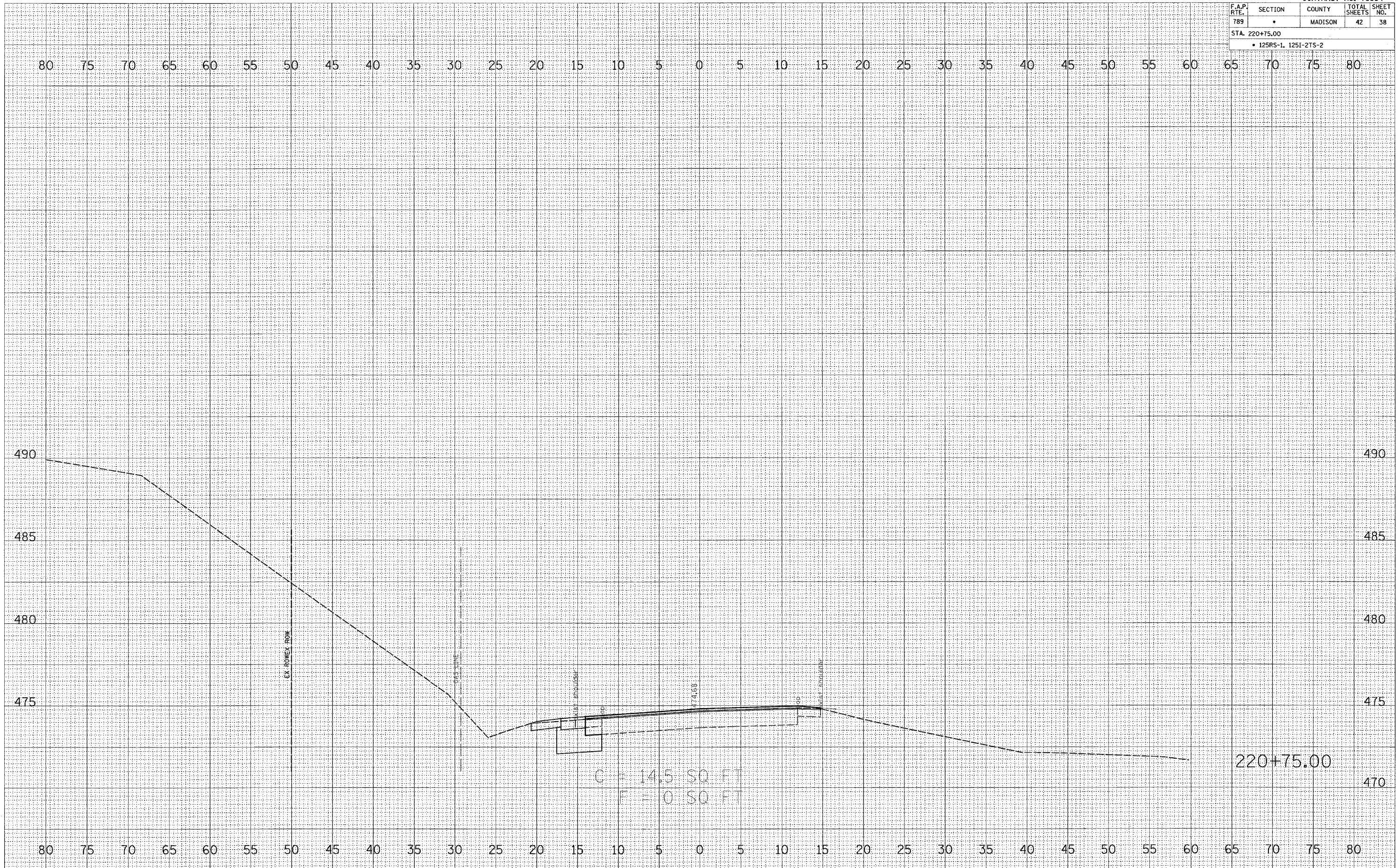
DRAWN BY  
 CHECKED BY

|                       |         |         |              |           |
|-----------------------|---------|---------|--------------|-----------|
| CONTRACT NO. 76994    |         |         |              |           |
| F.A.P. RTE.           | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 789                   | *       | MADISON | 42           | 38        |
| STA. 220+75.00        |         |         |              |           |
| • 12SRS-1, 125I-2TS-2 |         |         |              |           |

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

|                 |      |
|-----------------|------|
| ORIGINAL SURVEY | DATE |
| "RIVEY"         | BY   |
| NO.             |      |
| AREAS CHECKED   |      |

PLOT DATE = 1/22/2007  
 FILE NAME = c:\p\proj\1251-2ts-2\1251-2ts-2.dwg  
 PLOT SCALE = 5.0000 / IN.  
 USER NAME = kar-lasa1



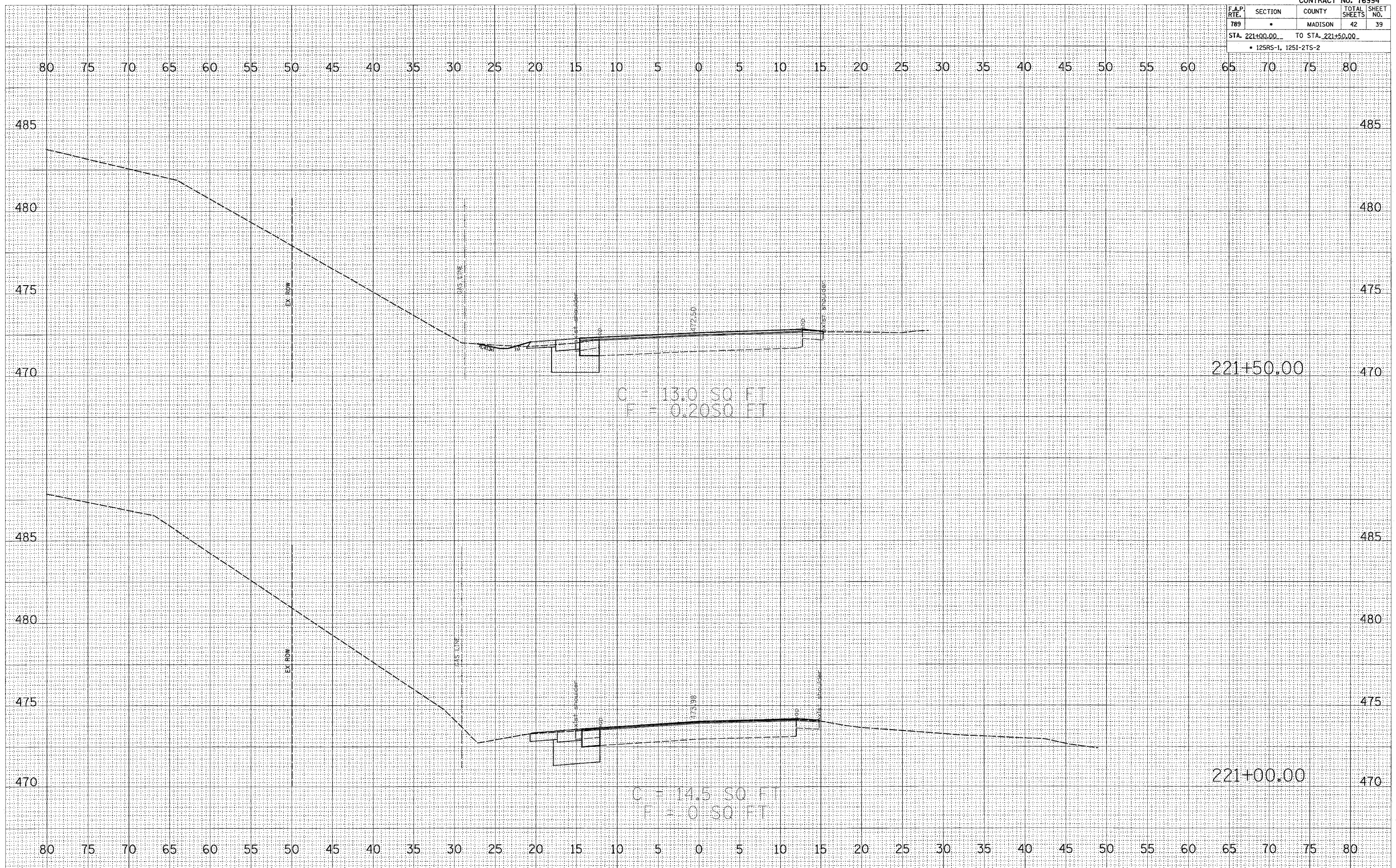


| F.A.P. RTE.                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|----------------------------------|---------|---------|--------------|-----------|
| 789                              |         | MADISON | 42           | 39        |
| STA. 221+00.00 TO STA. 221+50.00 |         |         |              |           |
| • 125R5-1, 125I-2T5-2            |         |         |              |           |

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

|          |      |    |      |
|----------|------|----|------|
| ORIGINAL | VIEW | BY | DATE |
|          |      |    |      |
|          |      |    |      |
|          |      |    |      |

PLOT DATE = 1/22/2007  
 FILE NAME = c:\projects\125r5\125i-2t5-2\125i-2t5-2.dwg  
 USER NAME = hmlbarr





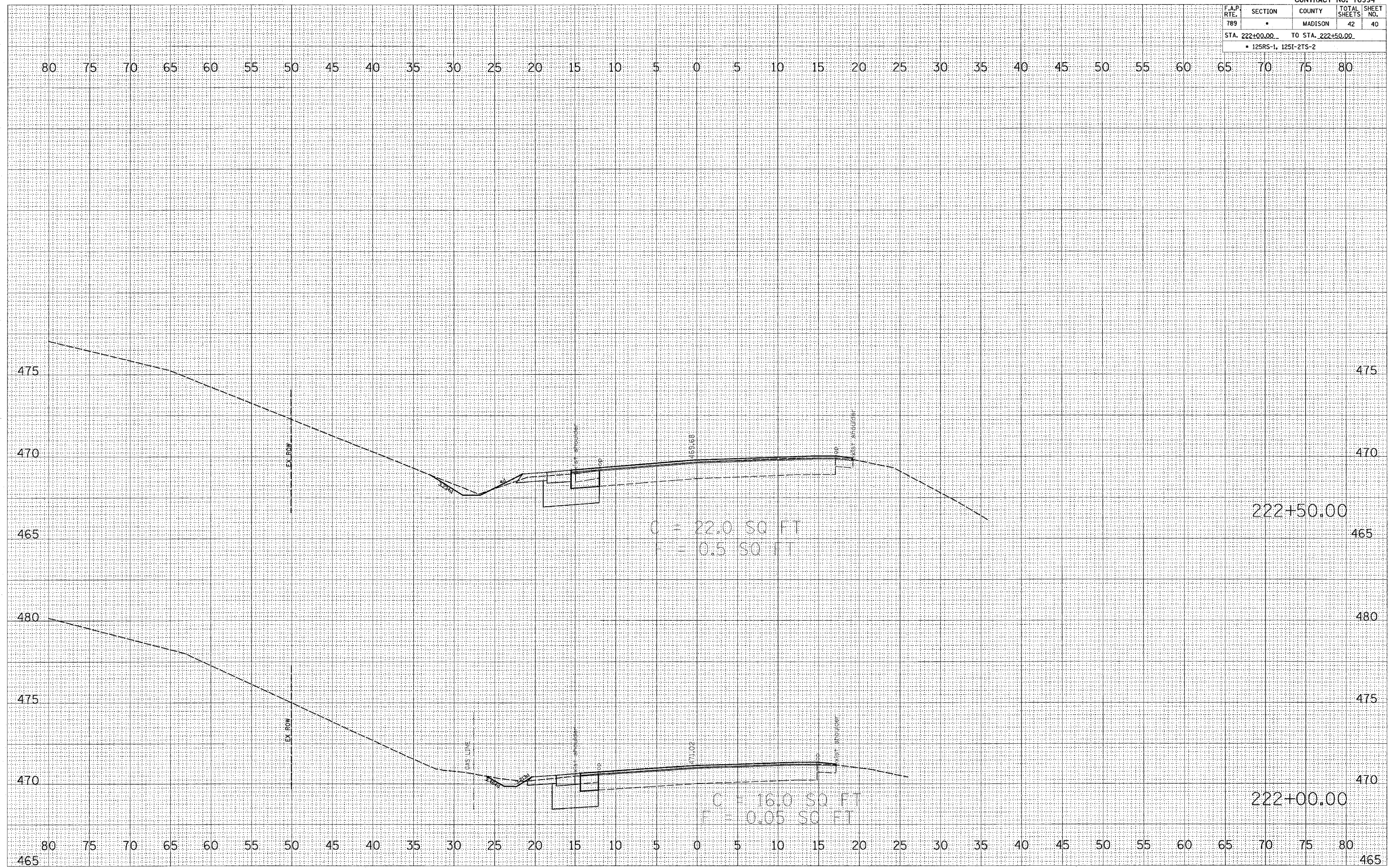
| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | .       | MADISON | 42           | 40        |

STA. 222+00.00 TO STA. 222+50.00  
• 125RS-1, 125I-2TS-2

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| CHECKED  |  |
| NOTED    |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| CHECKED  |  |
| NOTED    |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

PLOT DATE = 1/22/2007  
 FILE NAME = c:\projects\76994\plan\areah08.dwg  
 PLOT SCALE = 0.0500' / 1"  
 USER NAME = National



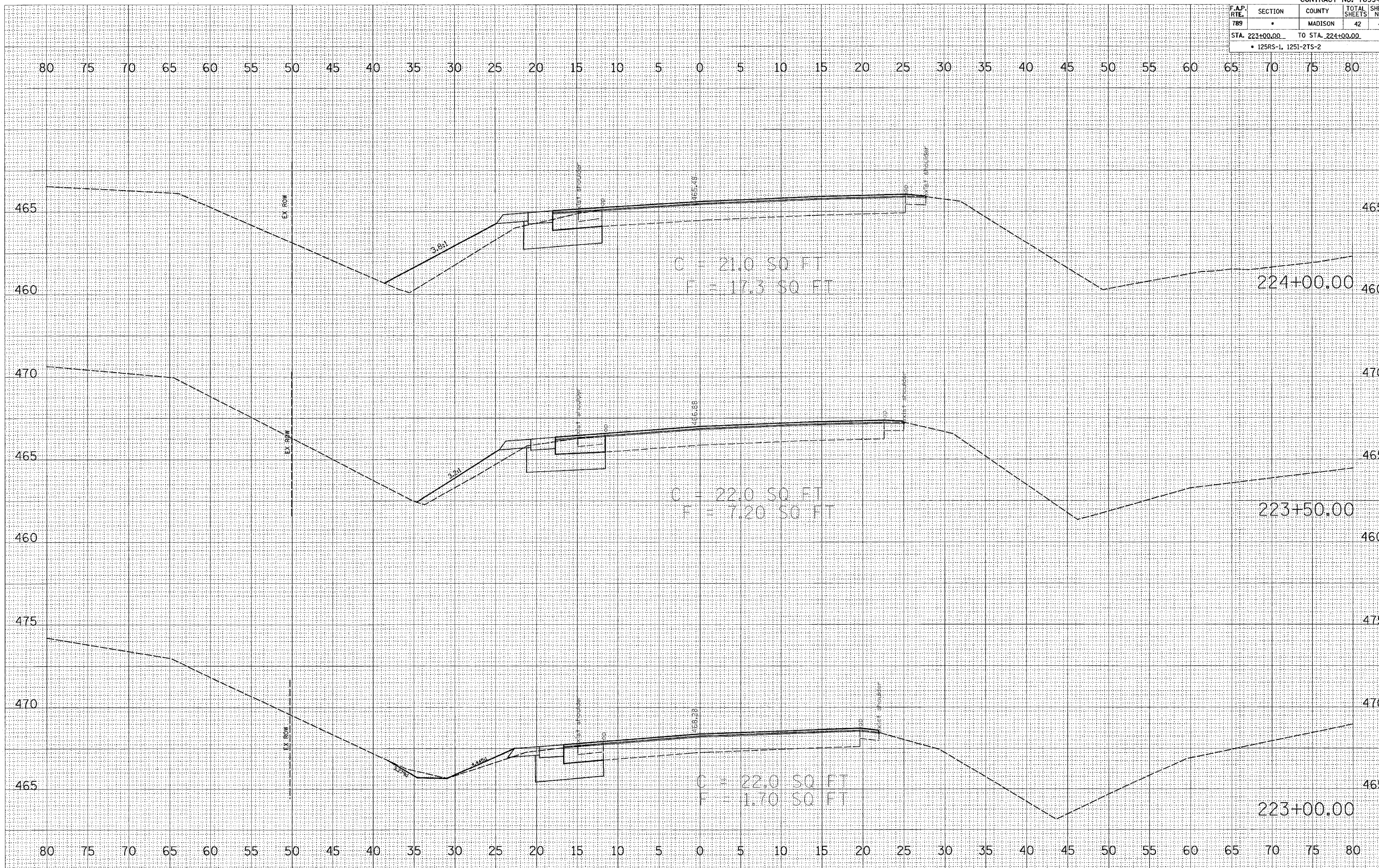


| F.A.P. RTE.                      | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|----------------------------------|---------|---------|--------------|-----------|
| 789                              | *       | MADISON | 42           | 41        |
| STA. 223+00.00 TO STA. 224+00.00 |         |         |              |           |
| • 125RS-1, 1251-2TS-2            |         |         |              |           |

FINAL SURVEY  
 CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 TEMPLATE NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

ORIGINAL SURVEY  
 CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 TEMPLATE NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

PLOT DATE = 1/22/2007  
 FILE NAME = c:\pva\pva\ed3485\plan\sheet81.dwg  
 PLOT SCALE = 0.0200 / 1" = 100'  
 USER NAME = kbrtsal



IL 143 (STA. 223+00 TO STA. 224+00)



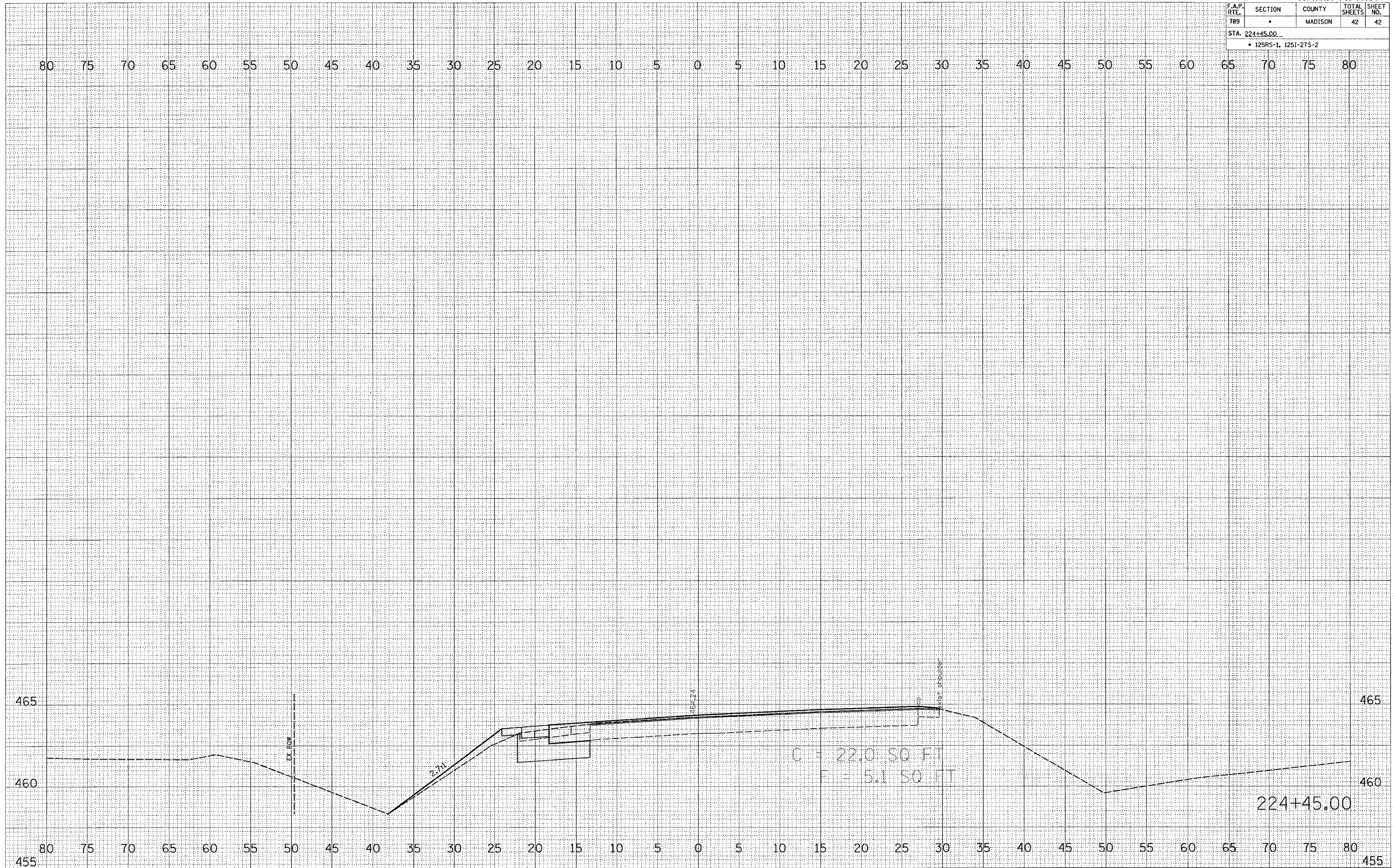
| F.A.P. RTE. | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 789         | *       | MADISON | 42           | 42        |

STA. 224+45.00  
 • 125RS-1, 125I-2TS-2

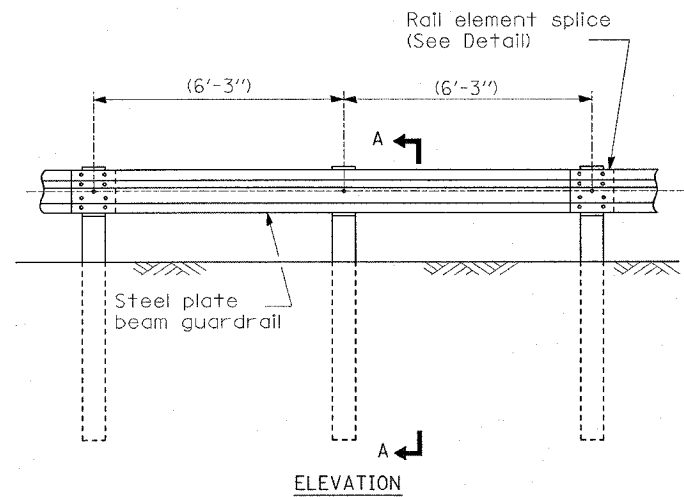
DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ORIGINAL: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 TYPED: \_\_\_\_\_  
 FINAL SURVEY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ORIGINAL: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 TYPED: \_\_\_\_\_  
 FINAL SURVEY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

PLOT DATE = 1/22/2007  
 FILE NAME = c:\pro\mcs\125\125\plan\sheet\125-4500X  
 PLOT SCALE = 5.0/100 / IN.  
 USER NAME = kar-lassi

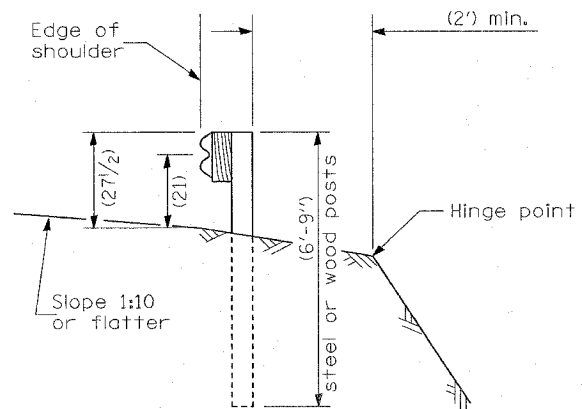


|                     |      |
|---------------------|------|
| PLAN                | DATE |
| BY                  |      |
| CHECKED             |      |
| NOTED               |      |
| NO. OF WAYS CHECKED |      |
| ADD FILE NAME       |      |

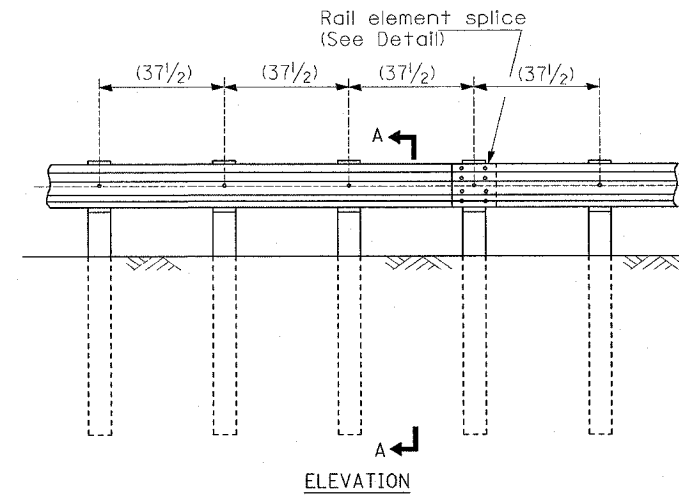


**TYPE A**

(6'-3") Typical post spacing

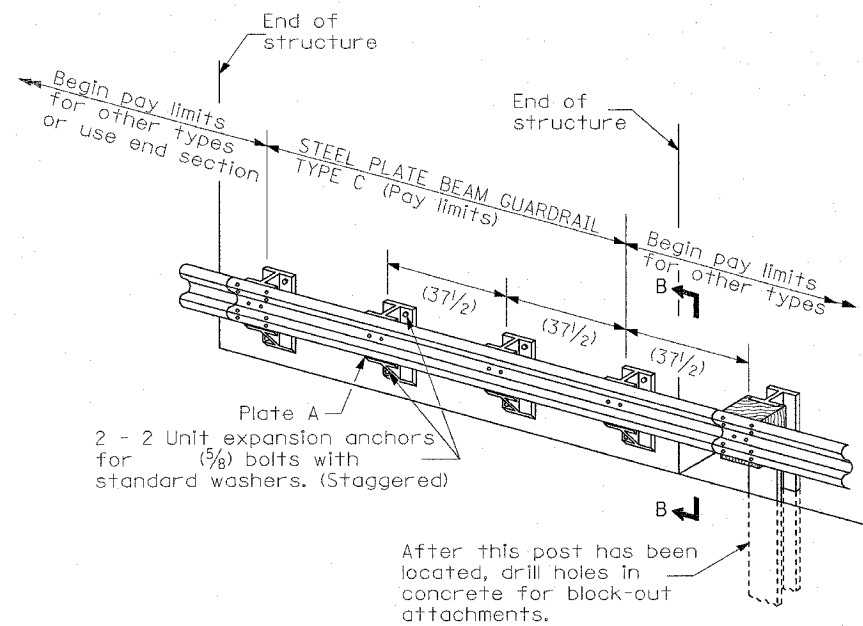


**SECTION A-A**



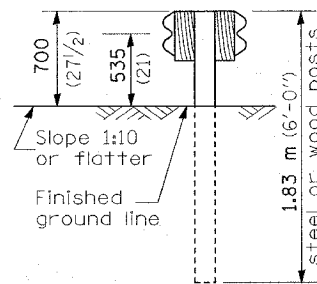
**TYPE B**

(37 1/2) Closed post spacing

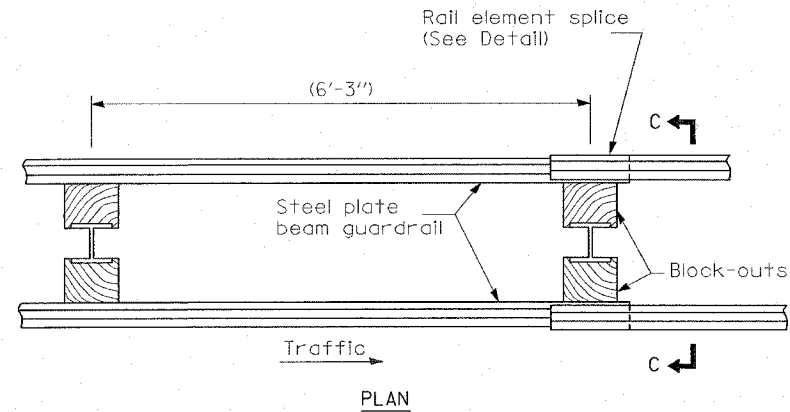


**TYPE C**

(37 1/2) Block-out spacing

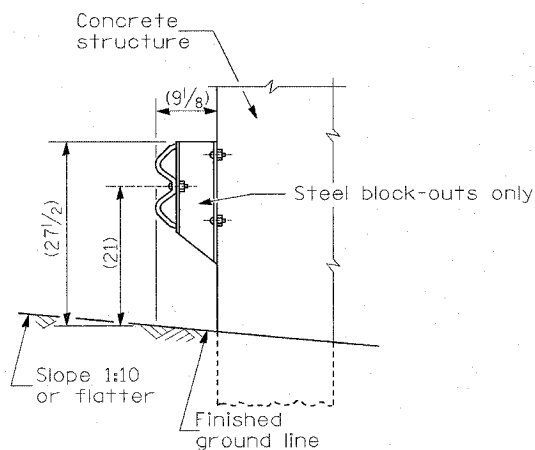


**SECTION C-C**



**TYPE D**

Double steel plate beam guardrail  
(6'-3") typical post spacing



**SECTION B-B**

**GENERAL NOTES**

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

All dimensions are in (inches) unless otherwise shown.

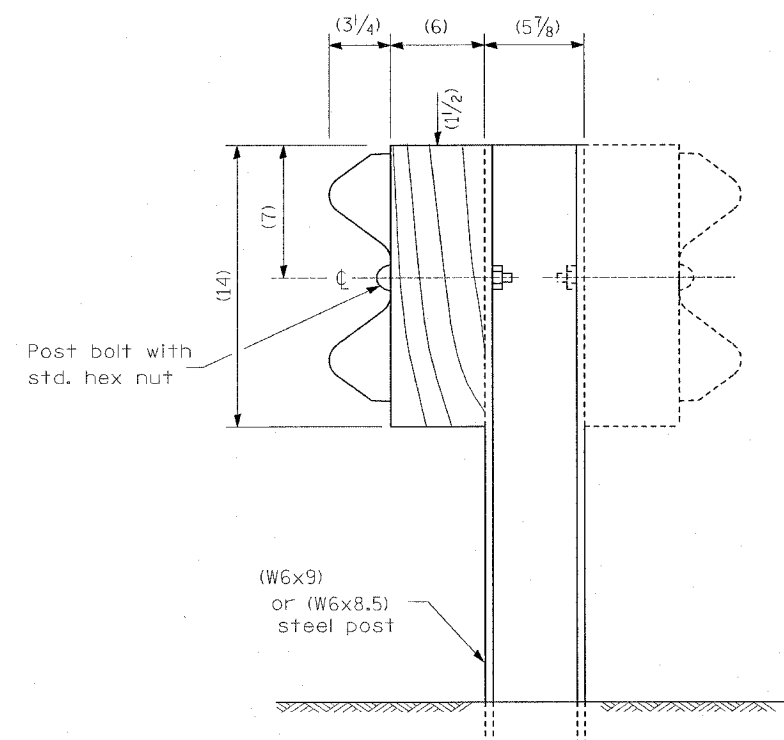
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STEEL PLATE BEAM GUARDRAIL DETAIL**  
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY  
DRAWN BY:

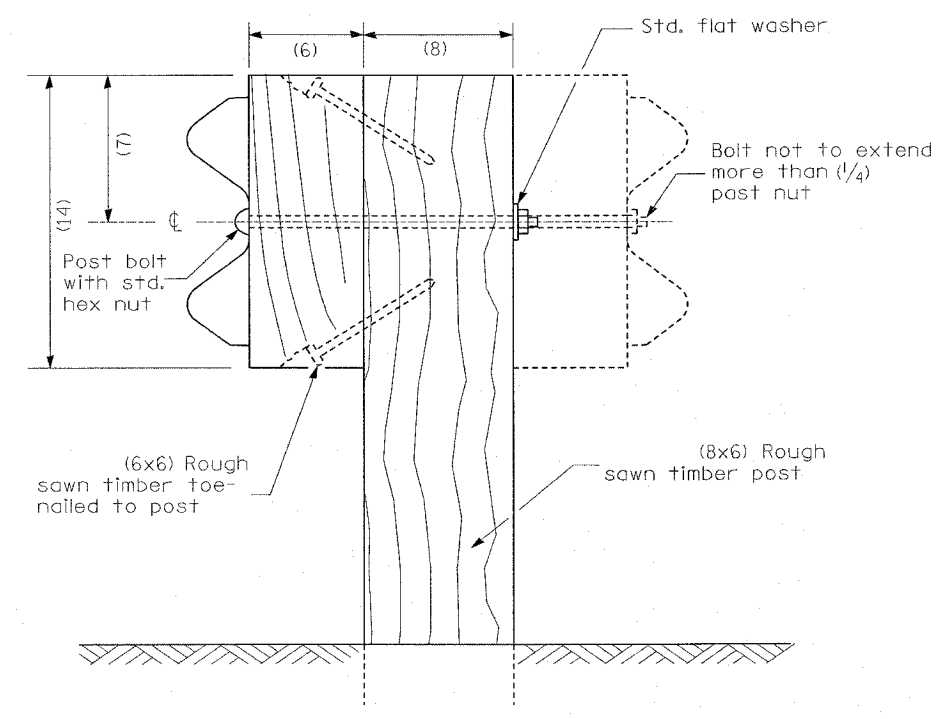
DATE: 2/20/01  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
NOTED BY: [Signature]

| PAP. NO.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------|--------------|-----------|
| 789                   | *       | MADISON | 42           | 42B       |
| • 125RS-1, 125I-2TS-2 |         |         |              |           |
| CONTRACT NO.: 76994   |         |         |              |           |

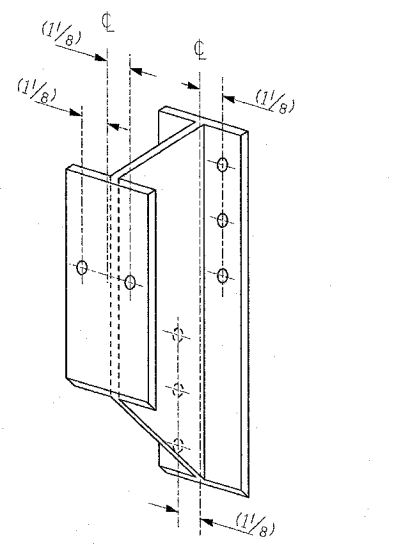
| PLAN | DATE | BY | CHECKED |
|------|------|----|---------|
|      |      |    |         |



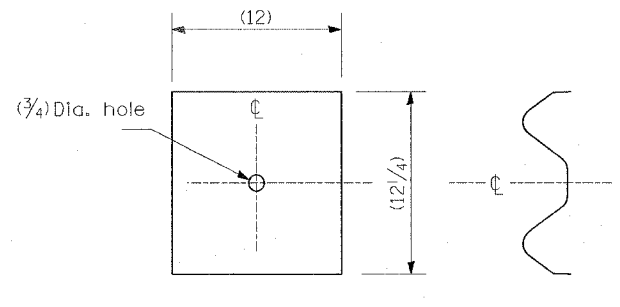
**STEEL POST CONSTRUCTION**



**WOOD POST CONSTRUCTION**



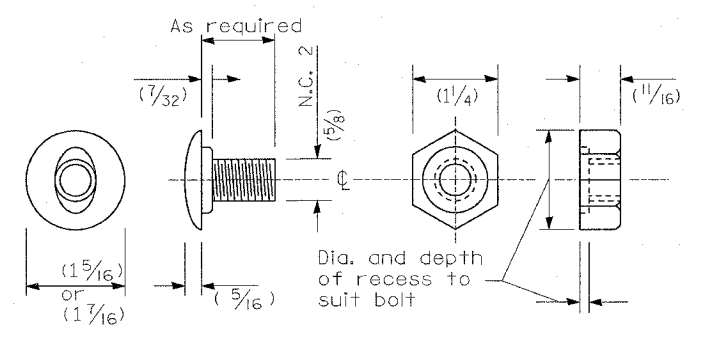
**STEEL BLOCK-OUT DETAIL**



**NOTE**

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

**PLATE A**



**POST OR SPLICE BOLT & NUT**

All dimensions are in (inches) unless otherwise shown.

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

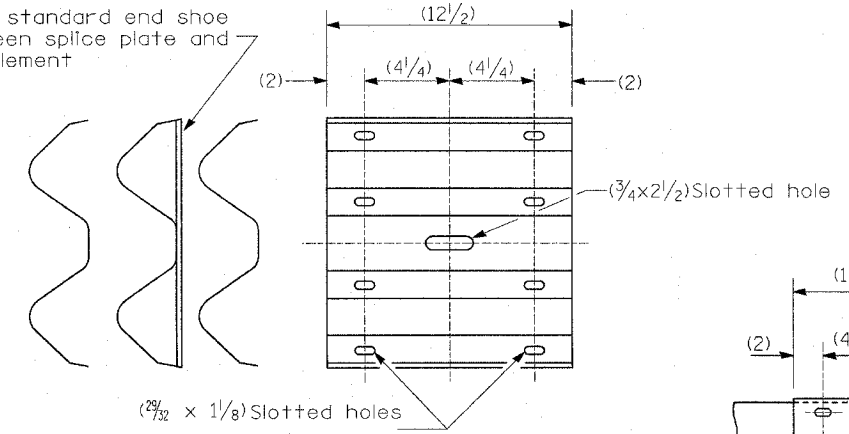
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STEEL PLATE BEAM  
 GUARDRAIL DETAIL**  
  
 FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY  
 DRAWN BY:

PLOT DATE: 2/23/2007

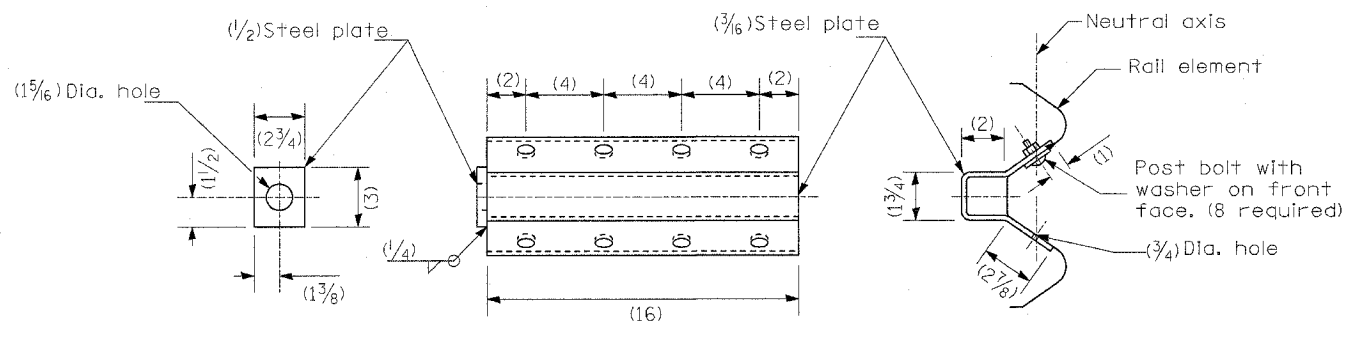
DATE: 2/23/2007  
 TIME: 10:00 AM  
 REF: \*REF\*  
 \*REF\*

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

Place standard end shoe between splice plate and rail element

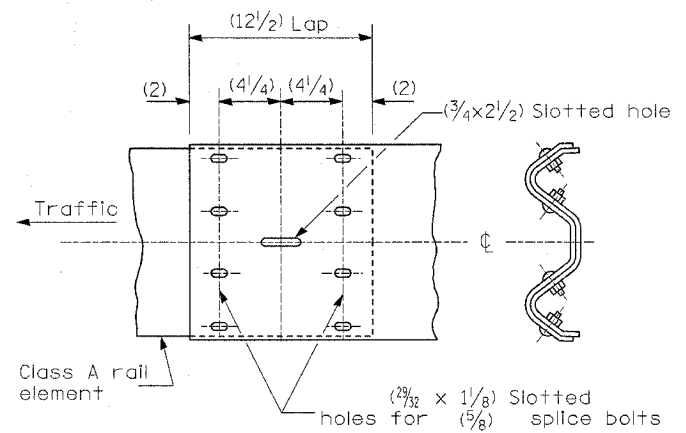


**SPLICE PLATE**

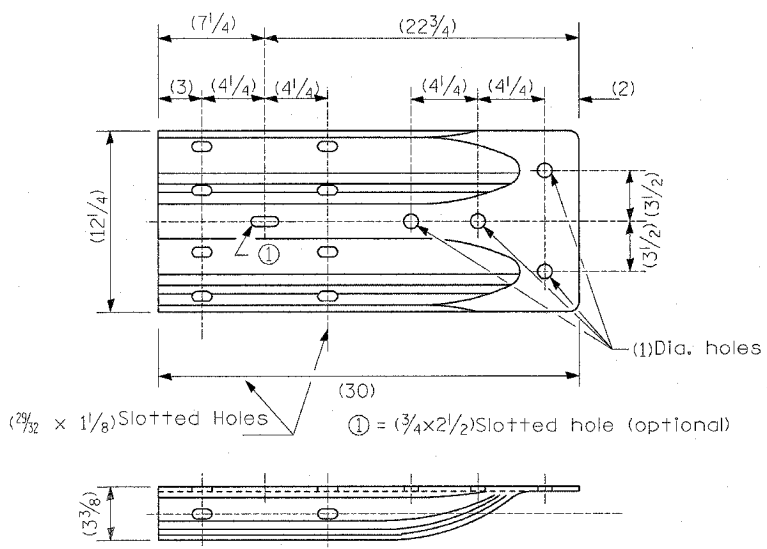


**NOTE**  
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

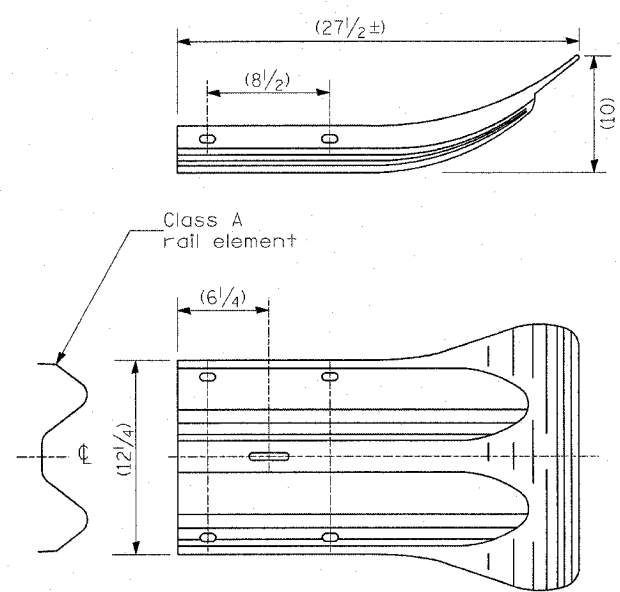
**ANCHOR PLATE T DETAILS**



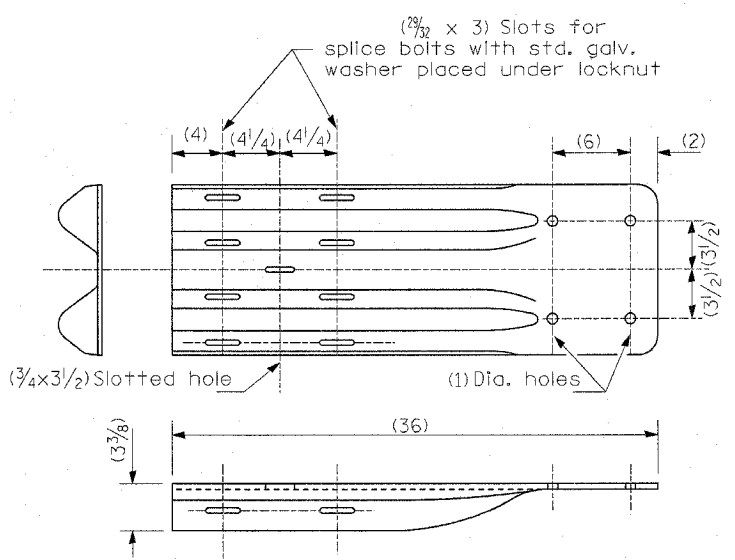
**RAIL ELEMENT SPLICE**



**ALTERNATE END SHOE**



**END SECTION**



**NOTE**

When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

Externally threaded studs protruding from the surface of the concrete will not be permitted.

**END SHOE**

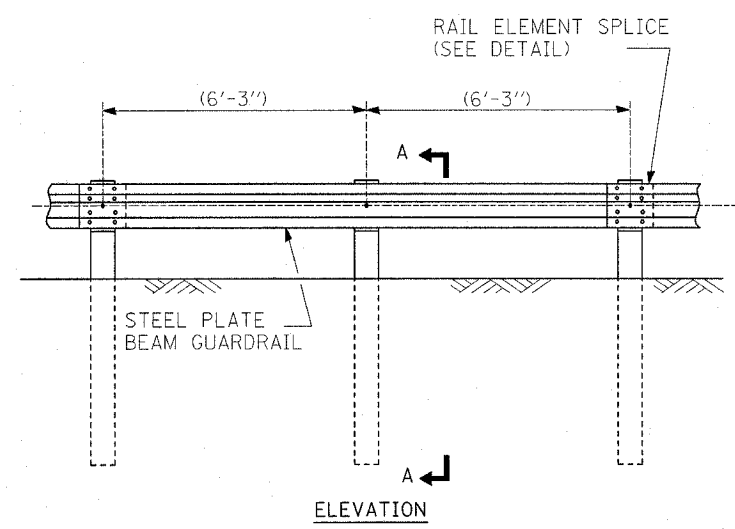
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STEEL PLATE BEAM  
GUARDRAIL DETAIL**  
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY  
DRAWN BY:

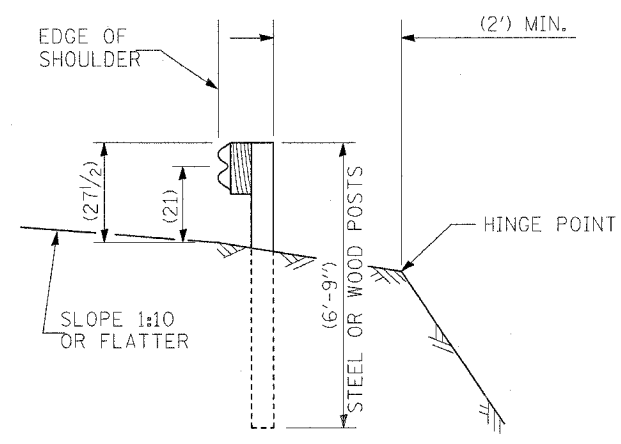
PLOT DATE: 2/23/2007

2/23/2007  
c:\p\projects\76994\plan\gbr\03280c.dgn  
REF: 48P-

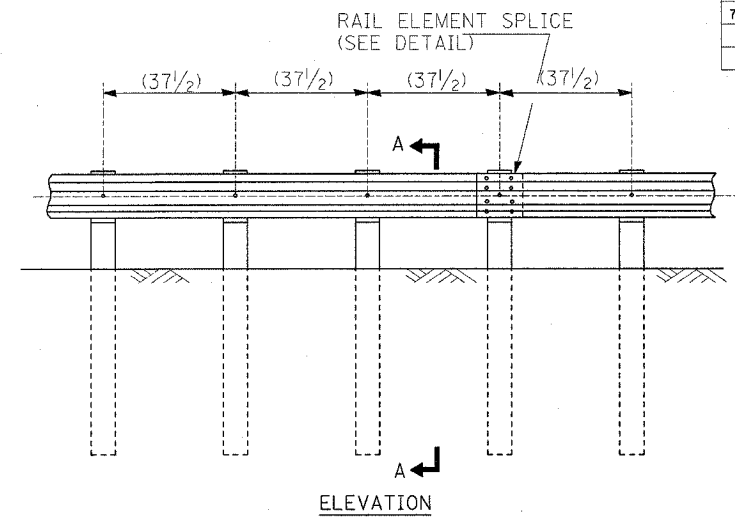
| FAP ROUTE             | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------|--------------|-----------|
| 789                   |         | MADISON | 42           | 42E       |
| • 125RS-1, 125I-2TS-2 |         |         |              |           |
| CONTRACT NO.: 76994   |         |         |              |           |



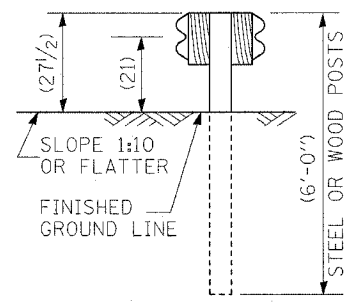
**TYPE A**  
(6'-3") TYPICAL POST SPACING



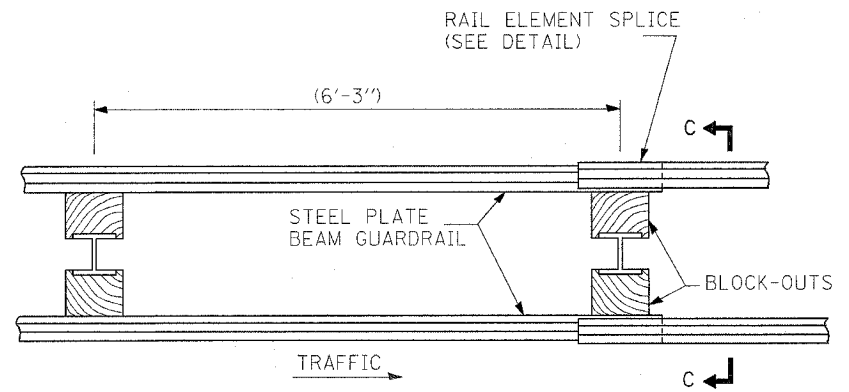
SECTION A-A



**TYPE B**  
(37 1/2) CLOSED POST SPACING



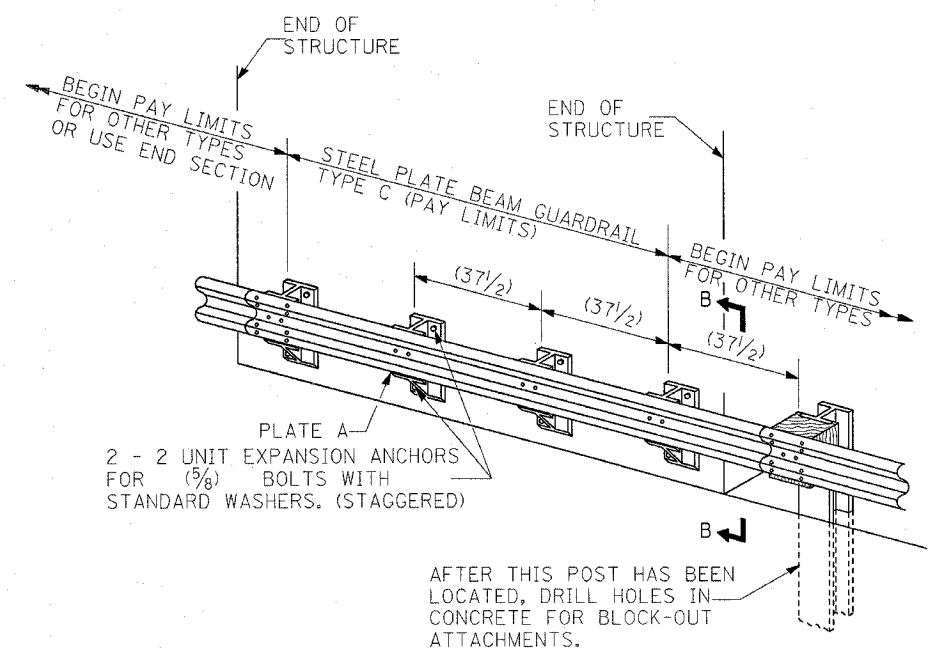
SECTION C-C



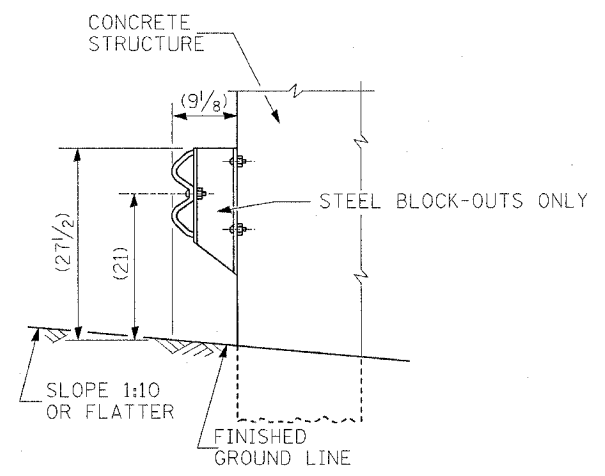
**TYPE D**  
DOUBLE STEEL PLATE BEAM GUARDRAIL  
(6'-3") TYPICAL POST SPACING

**GENERAL NOTES**

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).  
ALL DIMENSIONS ARE IN (INCHES) UNLESS OTHERWISE SHOWN.  
THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.



**TYPE C**  
(37 1/2) BLOCK-OUT SPACING



SECTION B-B

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL  
DETAIL**

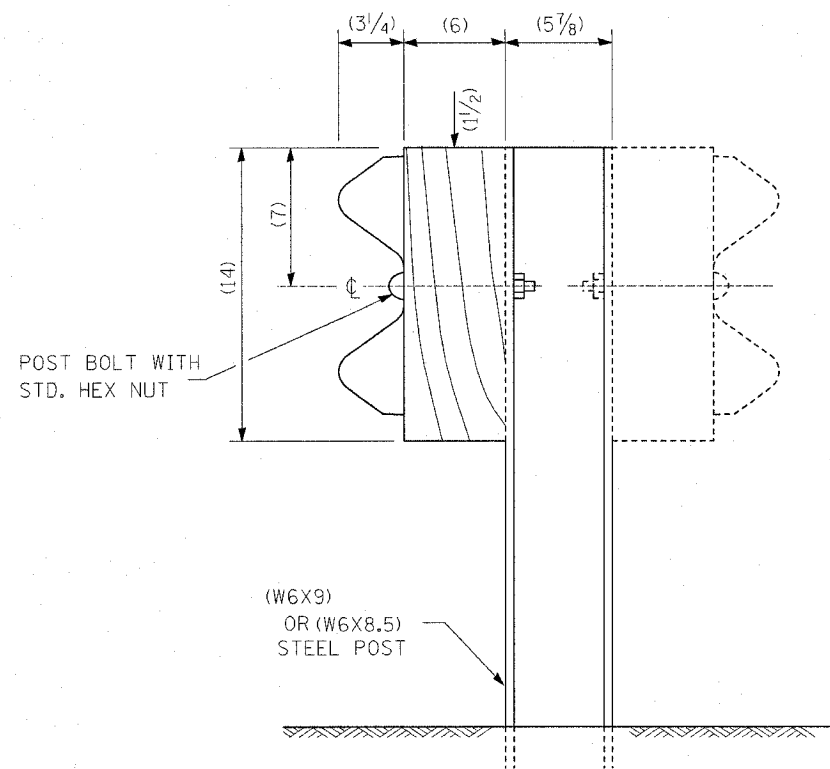
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

DRAWN BY:

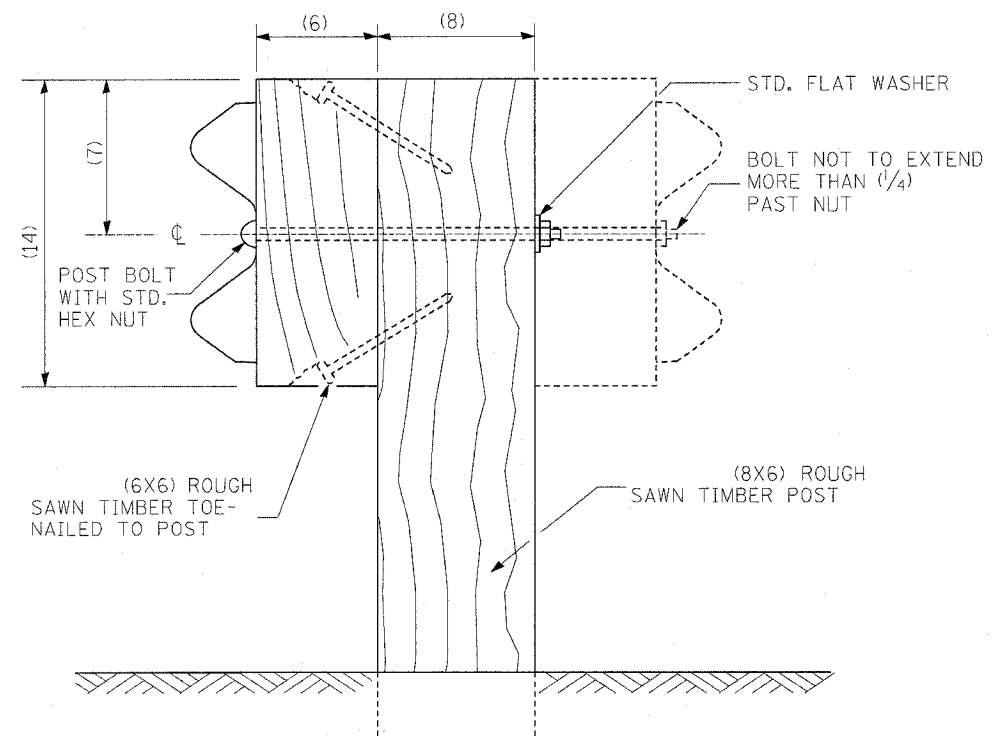
|           |                    |      |
|-----------|--------------------|------|
| PLAN      | SERIALIZED         | DATE |
| NOTE BOOK | PLOTTED            |      |
| NO.       | FILED              |      |
|           | NO. OF MAY CHECKED |      |
|           | COD FILE NAME      |      |

DATE: 2/24/2007  
2:28:07 PM  
C:\p0314058\p0314058.dgn  
REF.

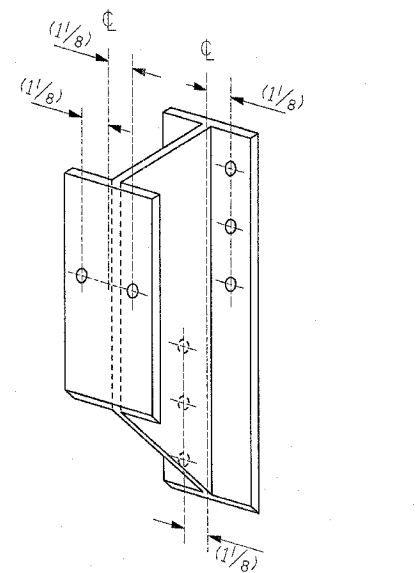
|           |            |      |
|-----------|------------|------|
| PLAN      | SUBMITTED  | DATE |
| NOTE BOOK | REVISED    |      |
| NO. _____ | BY _____   |      |
|           | CHKD _____ |      |
|           | DATE _____ |      |



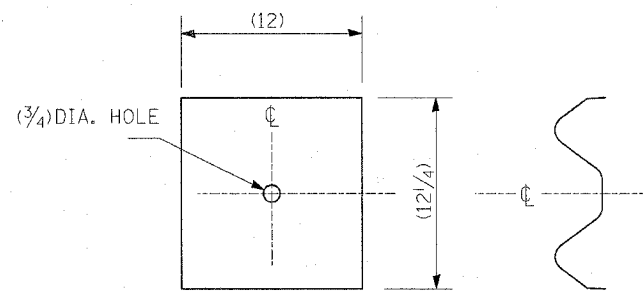
STEEL POST CONSTRUCTION



WOOD POST CONSTRUCTION



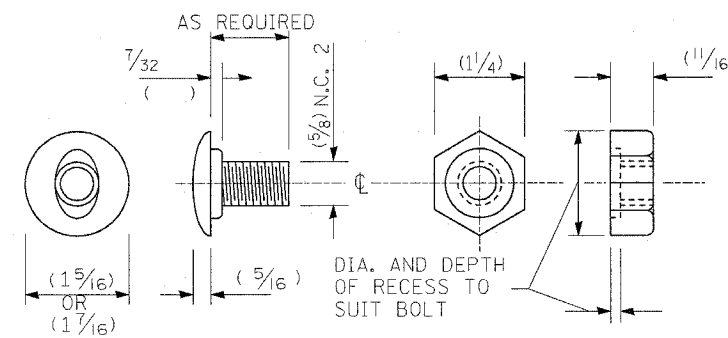
STEEL BLOCK-OUT DETAIL



NOTE

PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A



POST OR SPLICE BOLT & NUT

ALL DIMENSIONS ARE IN (INCHES) UNLESS OTHERWISE SHOWN.

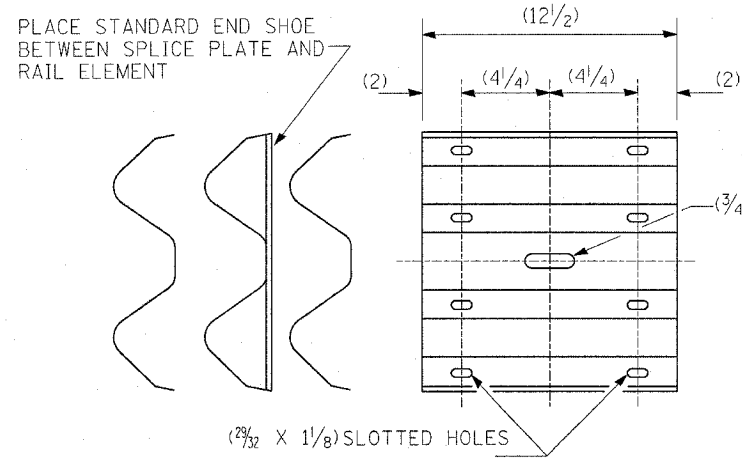
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**REMOVE AND REERECT  
 STEEL PLATE BEAM GUARDRAIL  
 DETAIL**

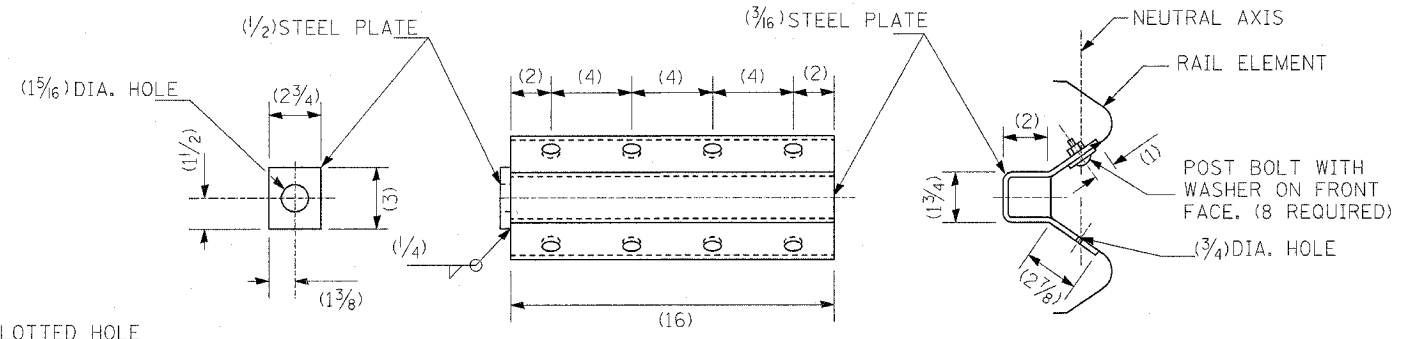
FAP ROUTE 789  
 SECTION 125RS-1, 125I-2TS-2  
 MADISON COUNTY

DRAWN BY:



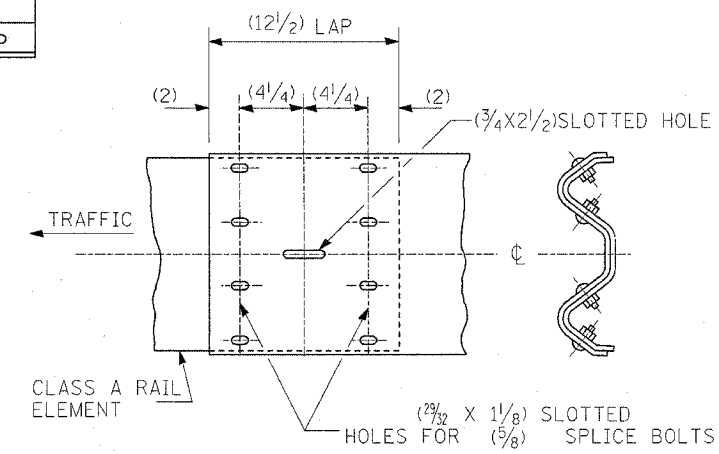


**SPLICE PLATE**

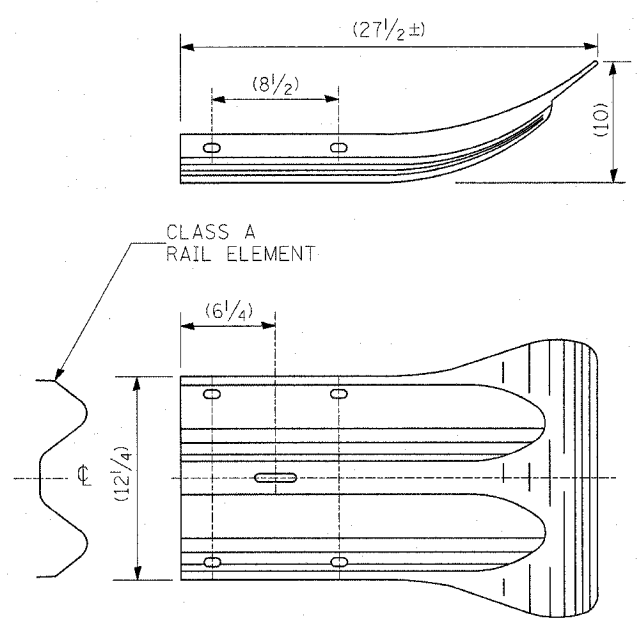


**NOTE**  
ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

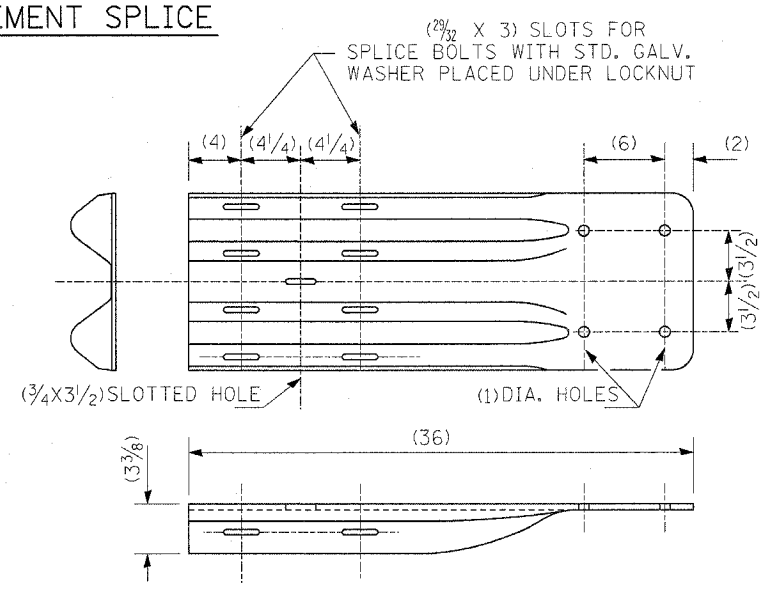
**ANCHOR PLATE T DETAILS**



**RAIL ELEMENT SPLICE**



**END SECTION**



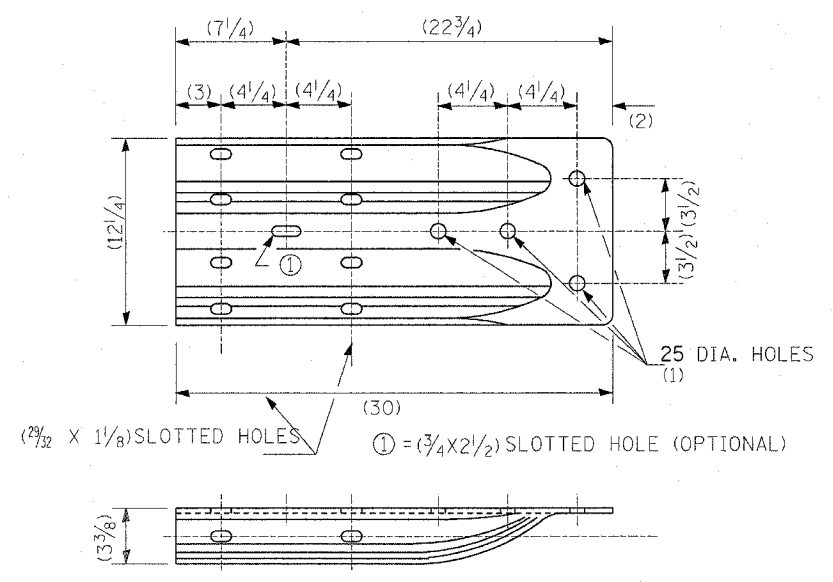
**NOTE**

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.

**END SHOE**



**ALTERNATE END SHOE**

ALL DIMENSIONS ARE IN (INCHES) UNLESS OTHERWISE SHOWN.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL  
DETAIL**

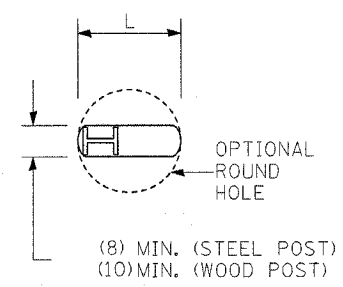
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

DRAWN BY:

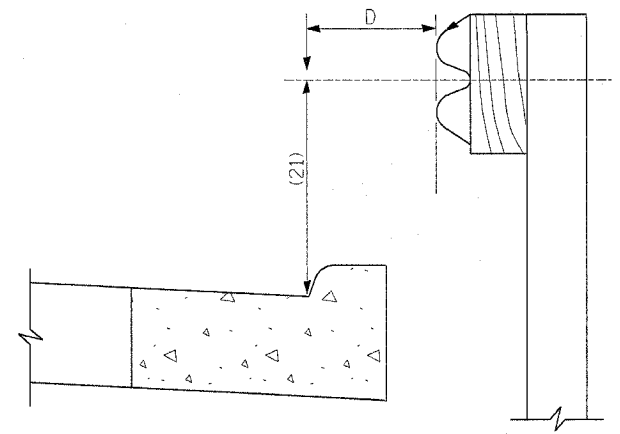
|           |      |
|-----------|------|
| PLAN      | DATE |
| SUBMITTED | BY   |
| APPROVED  | BY   |
| NOTED     | BY   |
| NO.       | NO.  |

DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 DATE: [Date]

|           |                |
|-----------|----------------|
| PLAN      | DATE           |
| SUBMITTED | BY             |
| NOTE BOOK | ALIGNED        |
| NO.       | CHECKED        |
|           | PAID FILE NAME |



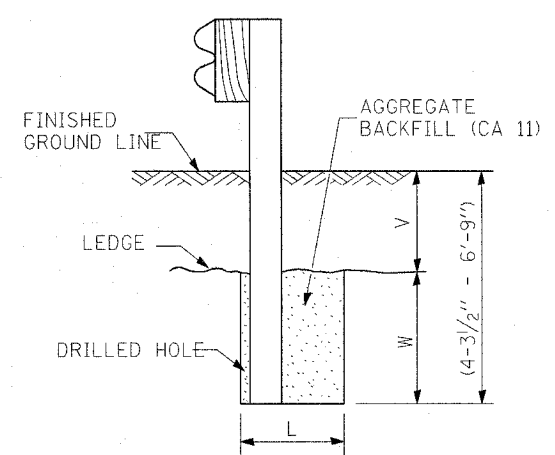
PLAN



NOTE:  
IF IT IS NECESSARY FOR D TO BE MORE THAN (12) AND LESS THAN (10'-0") TYPE (M-2) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO (12) MAXIMUM)

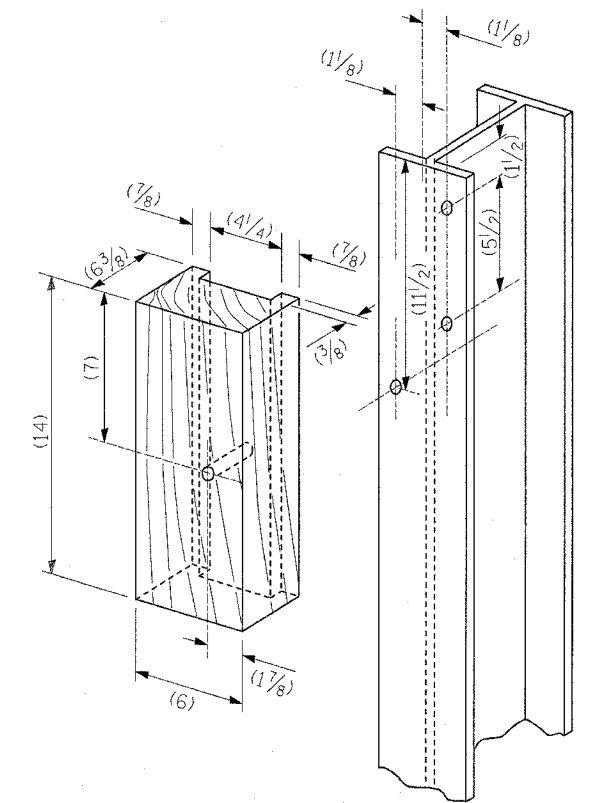


NOTE:  
LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

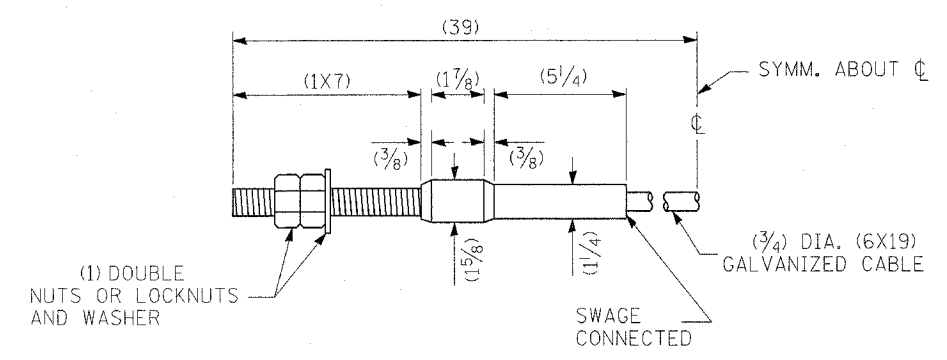
ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

| V              | W        | L          |           |
|----------------|----------|------------|-----------|
|                |          | STEEL POST | WOOD POST |
| (0 - 18)       | (24)     | (21)       | (23)      |
| (>18 - 41.5)   | (12)     | (8)        | (10)      |
| (>41.5 - 53.5) | (12 - 0) | (8)        | (10)      |



WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

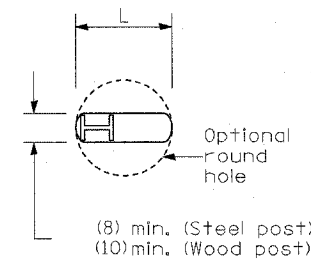
(40,000 LBS.) MIN. BREAKING STRENGTH)  
TIGHTEN TO TAUT TENSION.

ALL DIMENSIONS ARE IN (INCHES) UNLESS OTHERWISE SHOWN.

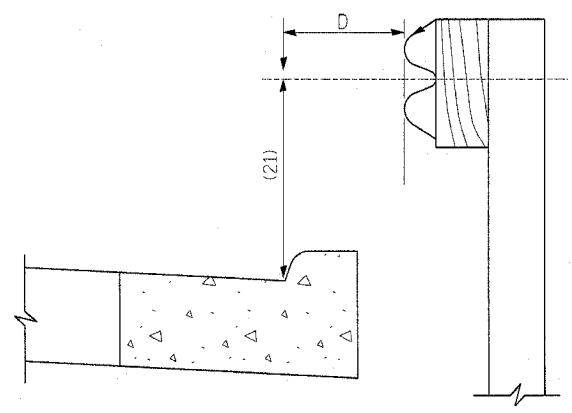
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
REMOVE AND REERECT  
STEEL PLATE BEAM GUARDRAIL  
DETAIL  
FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY  
DRAWN BY:

|           |             |      |
|-----------|-------------|------|
| PLAN      | REVISIONS   | DATE |
| NOTE BOOK | PLOTTED     |      |
| NO. _____ | FILED       |      |
|           | BY _____    |      |
|           | DATE _____  |      |
|           | NO. _____   |      |
|           | FILED _____ |      |
|           | BY _____    |      |
|           | DATE _____  |      |



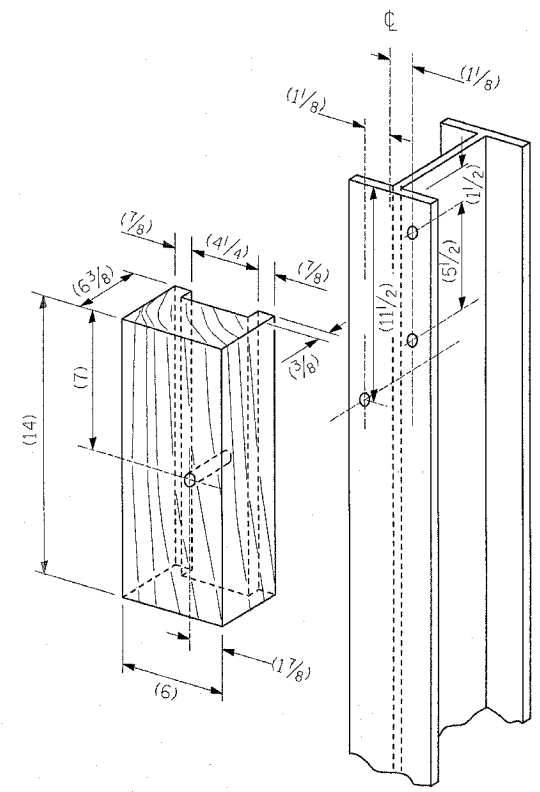
PLAN



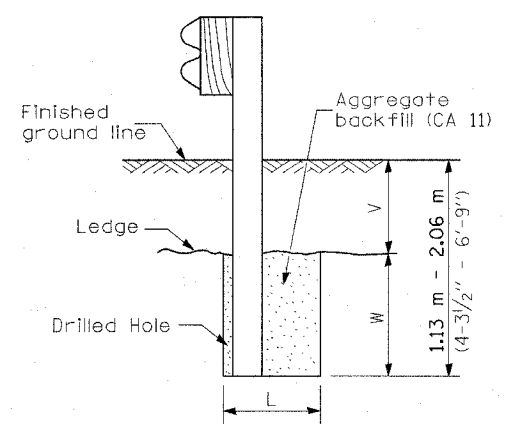
Note:  
If it is necessary for D to be more than (12) and less than (10'-0") type (M-2) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

GUARDRAIL PLACED BEHIND CURB

(D = 0 desirable to (12) maximum)



WOOD BLOCK-OUT AND STEEL POST DETAILS

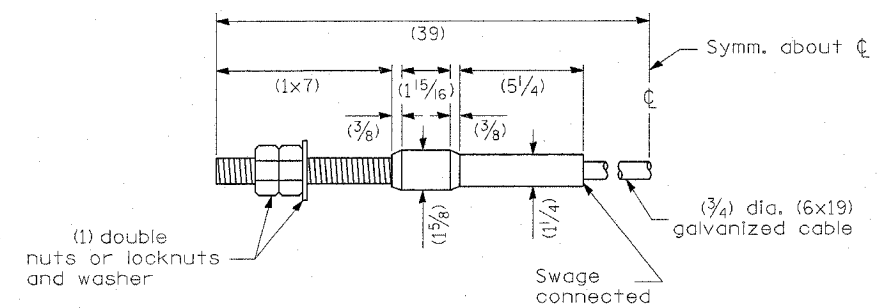


Note:  
Ledge line is top of rock ledge or hard slag fill.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

| V                               | W                   | L           |             |
|---------------------------------|---------------------|-------------|-------------|
|                                 |                     | Steel Post  | Wood Post   |
| 0 - 460<br>(0 - 18)             | 610<br>(24)         | 530<br>(21) | 580<br>(23) |
| >460 - 825<br>(>18 - 41.5)      | 305<br>(12)         | 203<br>(8)  | 250<br>(10) |
| >825 - 1.13 m<br>(>41.5 - 53.5) | 305 - 0<br>(12 - 0) | 203<br>(8)  | 250<br>(10) |



CABLE ASSEMBLY

(18,100 kg (40,000 lbs.) min. breaking strength)  
Tighten to taut tension.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STEEL PLATE BEAM GUARDRAIL DETAIL**

FAP ROUTE 789  
SECTION 125RS-1, 125I-2TS-2  
MADISON COUNTY

DRAWN BY: \_\_\_\_\_

DATE: 2/24/2007  
DRAWN BY: [signature]  
CHECKED BY: [signature]  
APP. BY: [signature]