

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|--------------------|-----------|
| 611 | 130T-2 | HENRY | 35 | 1 |
| FED. ROAD DIST. NO. | | ILLINOIS | CONTRACT NO. 64C66 | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 611 (IL81)
SECTION 103T-2
PROJECT ACF-0611(013)
HENRY COUNTY

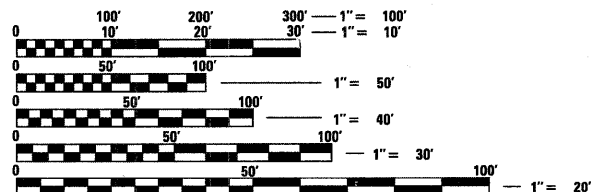
C-92-005-09

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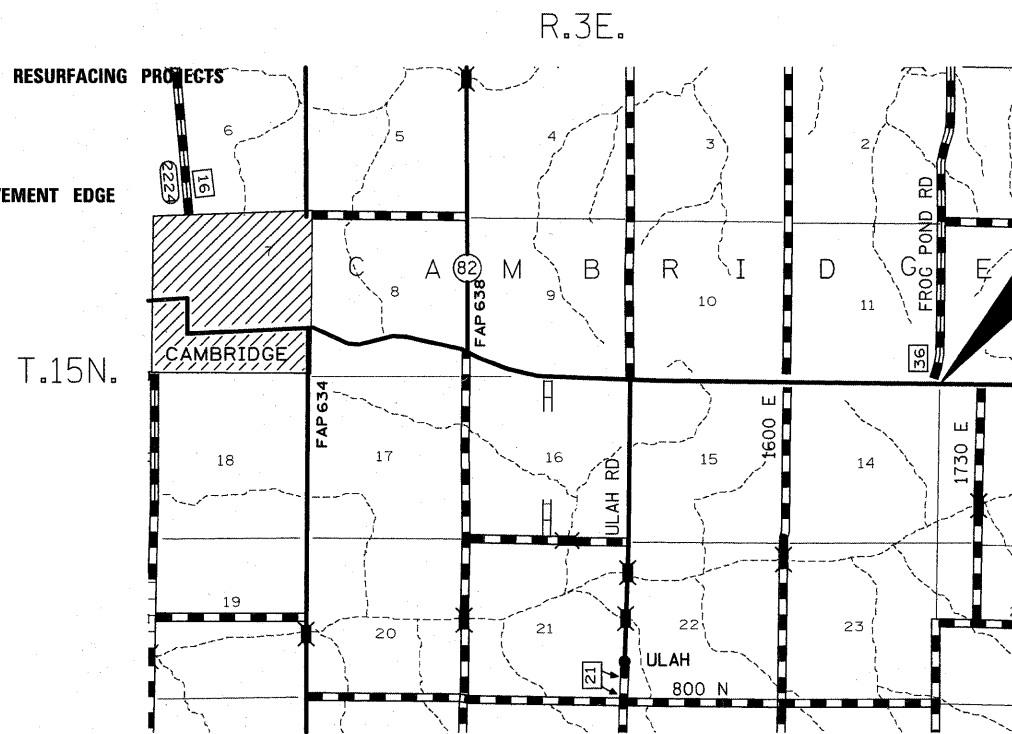
STATE STANDARDS

- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 442201-03 CLASS C AND D PATCHES
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 635001-01 DELINEATORS
- 666001-01 RIGHT OF WAY MARKERS
- 667101-01 PERMANENT SURVEY MARKERS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 m (15') AWAY
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
- 701201-03 LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-03 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-10 LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-05 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUT FOR DETECTOR LOOPS
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT

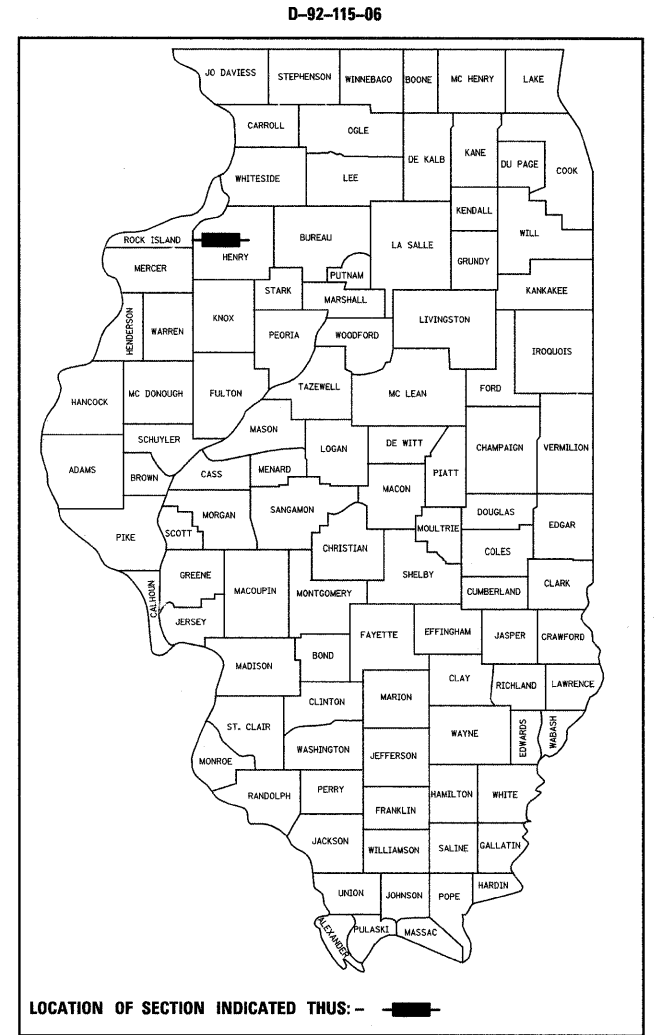


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



**IMPROVEMENT BEGINS
STA. 775 + 50**
**SECTION BEGINS
STA. 777 + 40**
INCLUDES THE REMOVAL AND REPLACEMENT
OF THE EXISTING BOX CULVERT
EXISTING SN-037-1059
PROPOSED SN-037-1181
**SECTION ENDS
STA. 778 + 19**
**IMPROVEMENT ENDS
STA. 779 + 75**



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 12/03 2008

James F. [Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 30, 2009
Charles A. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 2009
Christine M. [Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

CAMBRIDGE TOWNSHIP, SECTIONS 11,12,13, AND 14

GROSS LENGTH OF PROJECT = 79 LIN. FT. = 0.015 MILES
NET LENGTH OF PROJECT = 79 LIN. FT. = 0.015 MILES

PROJECT ENGINEER: REBECCA MARRUFFO

SQUAD LEADER: THOMAS HALLA (815)-284-5993

CONTRACT NO. 64C66

HENRY COUNTY

SECTION 103T-2

FAP ROUTE 611 (IL 81)

SUMMARY OF QUANTITIES

| | | | 80% FED 20% STATE MINOR STRUCTURE Y007 |
|-------------|---|--------|--|
| CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 36 |
| 20200100 | EARTH EXCAVATION | CU YD | 320 |
| 25000750 | MOWING | ACRE | 0.43 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 100 |
| 25100900 | TURF REINFORCEMENT MAT | SQ YD | 300 |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 80 |
| 28000300 | TEMPORARY DITCH CHECKS | EACH | 4 |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 242 |
| 28000500 | INLET AND PIPE PROTECTION | EACH | 1 |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 144 |
| 28200200 | FILTER FABRIC | SQ YD | 144 |
| 44201381 | CLASS C PATCHES, TYPE III, 12 INCH | SQ YD | 228 |
| 48101200 | AGGREGATE SHOULDER, TYPE B | TON | 103 |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 |
| 51205200 | TEMPORARY SHEET PILING | SQ FT | 1993 |
| 51500100 | NAME PLATES | EACH | 1 |
| 54010604 | PRECAST CONCRETE BOX CULVERT 6' X 4' | FOOT | 96 |
| 54001001 | BOX CULVERT END SECTION, CULVERT NO. 1 | EACH | 2 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 208 |
| 63500105 | DELINEATORS | EACH | 4 |
| 66600105 | FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS | EACH | 12 |
| 66700305 | PERMANENT SURVEY MARKERS, TYPE II | EACH | 1 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 3 |
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | EACH | 1 |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE | CAL DA | 3 |

* SPECIALTY ITEMS
 ■ NON-PARTICIPATING 100% STATE

| | | | | | | | | | | | | | | | |
|--|----------------------|------------|-----------|---|------------------------------|-----------|----|--------|---------------|---------|--------|-----------------|--------------|----|---|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | SUMMARY OF QUANTITIES | | | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
| cr\pw_work\PWIDOT\HENSONKE\dms34455\d11506covr.dgn | | DRAWN - | REVISED - | | SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. | 611 | 103T-2 | HENRY | 35 | 2 |
| | | CHECKED - | REVISED - | | | | | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64C66

SUMMARY OF QUANTITIES

| | | | 80% FED 20% STATE MINOR STRUCTURE Y007 |
|-------------|--|-------|--|
| CODE NUMBER | ITEM | UNIT | TOTAL QUANTITY |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 1 |
| 70106700 | TEMPORARY RUMBLE STRIP | EACH | 6 |
| 70300220 | TEMPORARY PAVEMENT MARKING-LINE 4" | FOOT | 1907 |
| 70300280 | TEMPORARY PAVEMENT MARKING-LINE 24" | FOOT | 24 |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 731 |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 387 |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 312 |
| * 78001110 | PAINT PAVEMENT MARKING-LINE 4" | FOOT | 3044 |
| 78300100 | PAVEMENT MARKING REMOVAL | SQ FT | 170 |
| Z0005400 | BREAKER-RUN CRUSHED STONE | TON | 166 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 |
| Z0030250 | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 |
| Z0030350 | IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 |
| Z0064505 | SECTION CORNER MARKERS | EACH | 1 |
| X4810100 | TEMPORARY SHOULDERS | SQ YD | 179 |
| X7013015 | TRAFFIC CONTROL FOR ROAD CLOSURE | L SUM | 1 |
| * A2006514 | ^{TREE,} QUERCUS BICOLOR (SWAMP WHITE OAK), 1-34" CALIPER, BALLED AND BURLAPPED | EACH | 6 |

* SPECIALTY ITEMS

GENERAL NOTES

| ROUTE NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
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| FAP 611 (IL 81) | 103T-2 | Henry | 35 | 4 |
| FED ROAD DIST. NO. | ILLINOIS | PROJECT | | |
| Contract #64C66 | | | | |

See cross sections for special ditches and backslopes.

The removal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Meter (Cubic Yard) for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the EARTH EXCAVATION.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for PRECAST CONCRETE BOX CULVERT 6'X4'.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

The following Mixture Requirements are applicable for this project:

| Mixture Uses(s): | | | |
|---|----------------------|--|--|
| PG: | PG 64-22 | | |
| Design Air Voids | 4.0 @N50 | | |
| Mixture Composition (Gradation Mixture) | IL 9.5, 12.5 or 19.0 | | |
| Friction Aggregate | N/A | | |
| 20 Year ESAL | N/A | | |

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing on the patch. Stationing shall be placed on both lanes of 2-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge on the patch so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The new number for the structure at Sta. 777+76 will be 037-1181.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to Dave Lippert, Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

District 2 District Engineer (1)
 Fabricator (1)
 Contractor (2)
 Resident Engineer (2)
 District 2 Bureau of Materials (2)

The review and approval of temporary sheet piling will require 4 to 6 weeks. The Contractor shall schedule his work accordingly.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Mulch Method II shall be applied over all permanent and temporary seeded areas. This shall be included in the cost of EARTH EXCAVATION.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

Culverts that are stage constructed and undercut by more than 600 mm (2 feet) shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. The bottom of the marker shall be 5'-0" below the ground surface.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

GENERAL NOTES

| ROUTE NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------|---------|--------------|-----------|
| FAP 611 (IL 81) | 103T-2 | Henry | 35 | 5 |
| FED ROAD DIST. NO. | ILLINOIS | PROJECT | | |
| Contract #64C66 | | | | |

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick in a 5 foot diameter around the tree. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

Work on this project will be in progress at the same time as work on IL 82 Cambridge to Frog Pond Road. Work on these projects shall be scheduled to keep interference between all the projects to a minimum. The contractors shall inform each other of progress of the projects and give fair warning to the other contractors when a problem might be encountered.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co. Frontier/Citizens

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

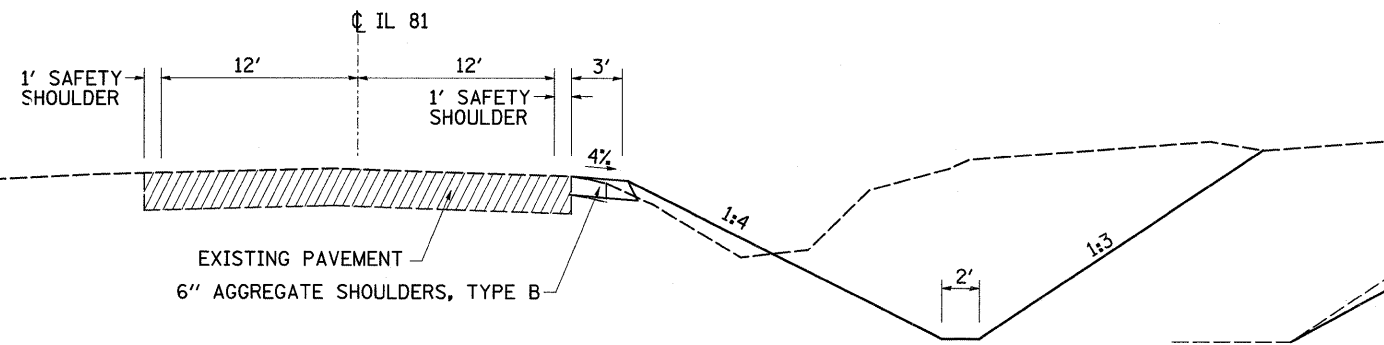
Temporary Shoulders which will not affect the removal and completion of the box culverts shall remain in place.

Aggregate Shoulder Type B quantities have been calculated for the entire project in the event Temporary Shoulders become damaged and unusable.

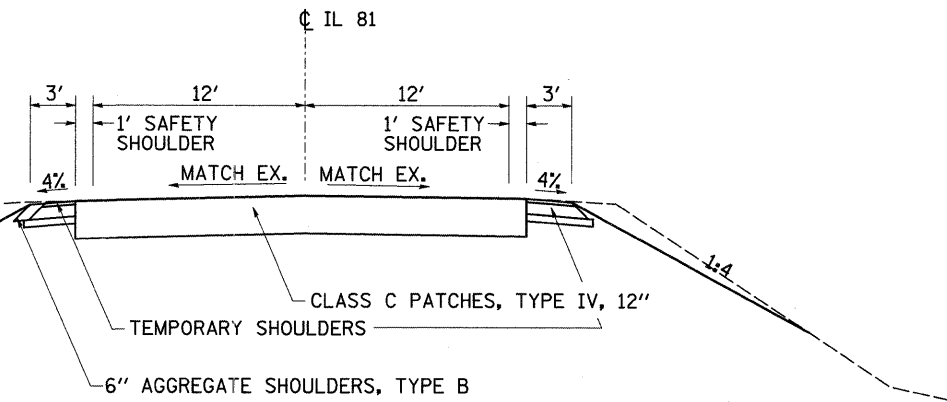
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Enlarge
200%
Enlarge 107%

TYPICAL SECTIONS

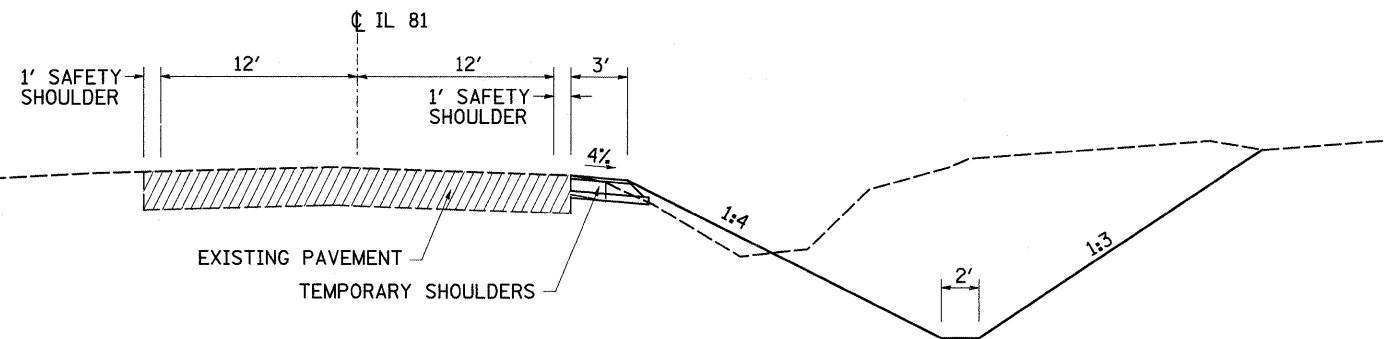
STA. 775+50 TO STA. 776+06



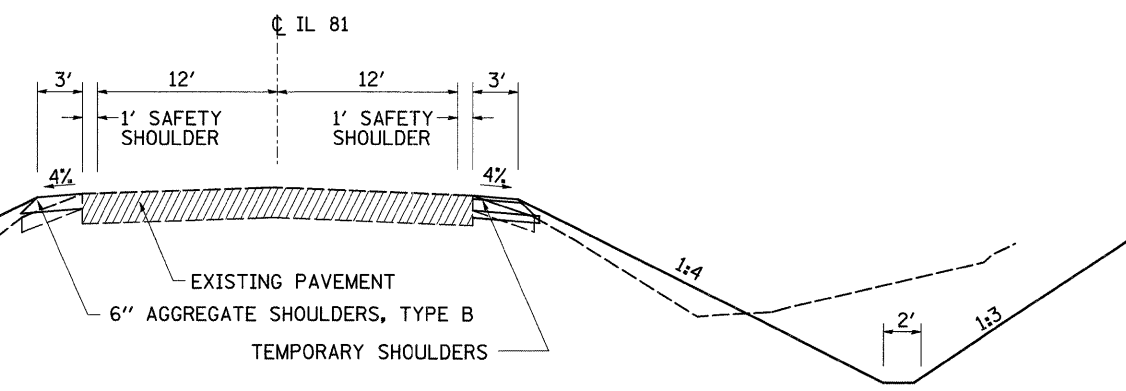
STA. 777+35 - STA. 778+19



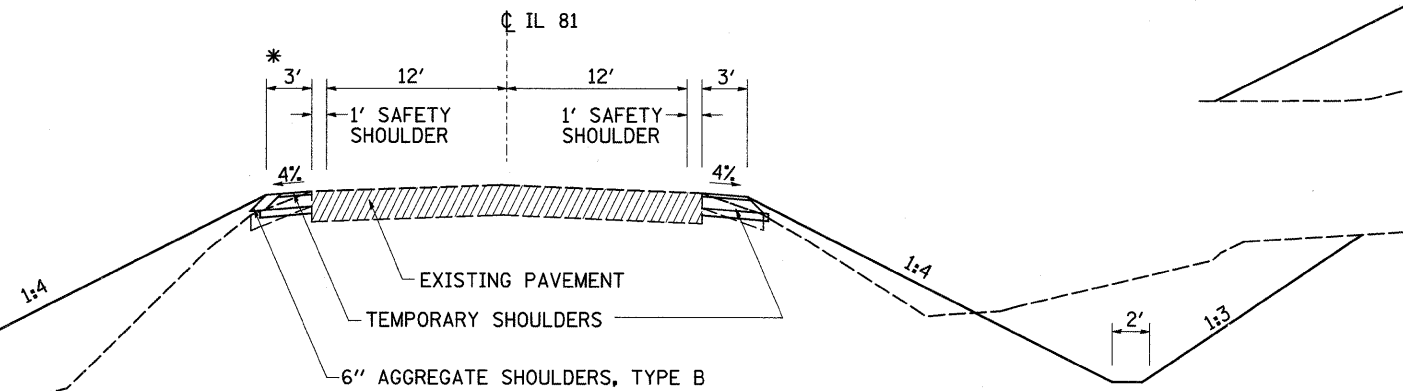
STA. 776+06 TO STA. 777+35



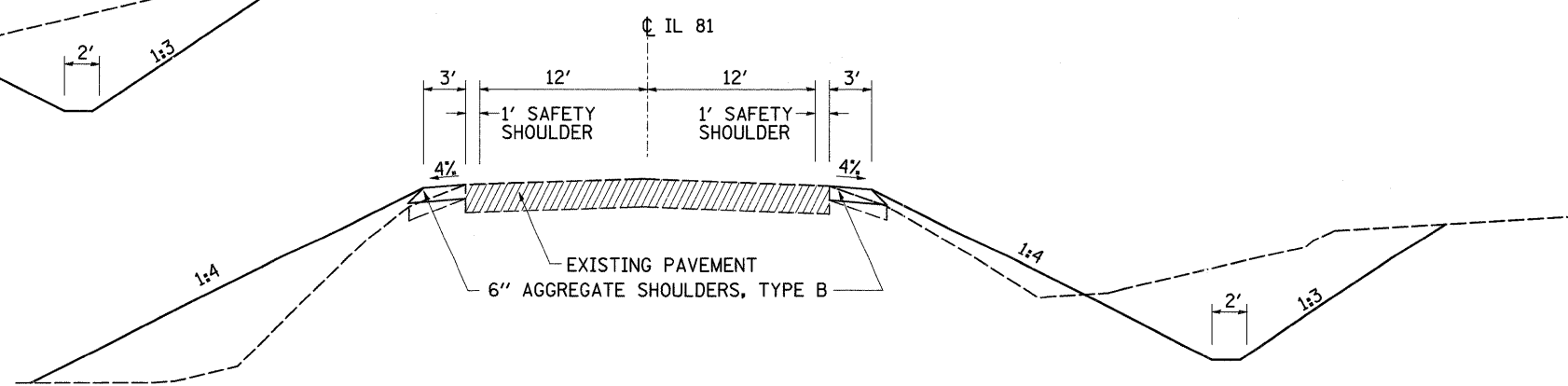
STA. 779+24 - STA. 779+53



STA. 778+19 - STA. 779+53



STA. 779+53 - STA. 779+75



* STA. 778+19 - STA. 779+24 LT
TEMPORARY SHOULDERS TO REMAIN IN PLACE

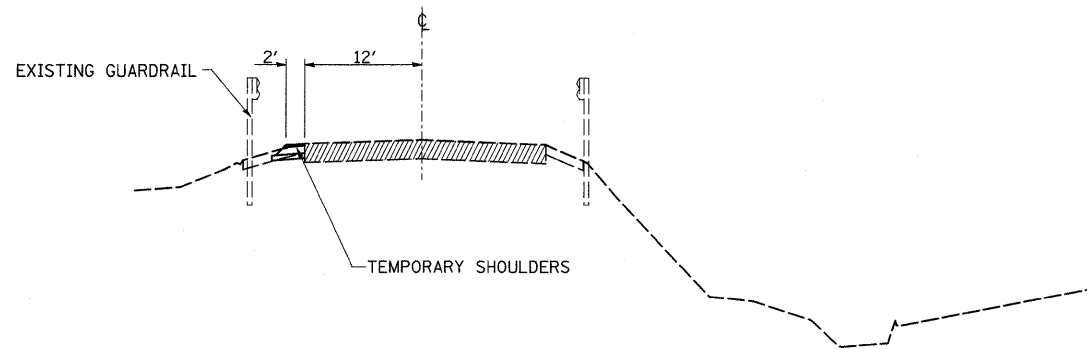
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| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL SECTIONS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 0:\pw_work\FWIDOT\HENSONKE\dms34455\d1506typ.dgn | | DRAWN - | REVISED - | | | | | 611 | 103T-2 | HENRY | 35 | 6 |
| PLOT SCALE = 50.0000' / IN. | | CHECKED - | REVISED - | | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:35:04 2008 | | DATE - | REVISED - | | SCALE: | SHEET NO. | OF SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | |

STAGING TYPICAL SECTIONS

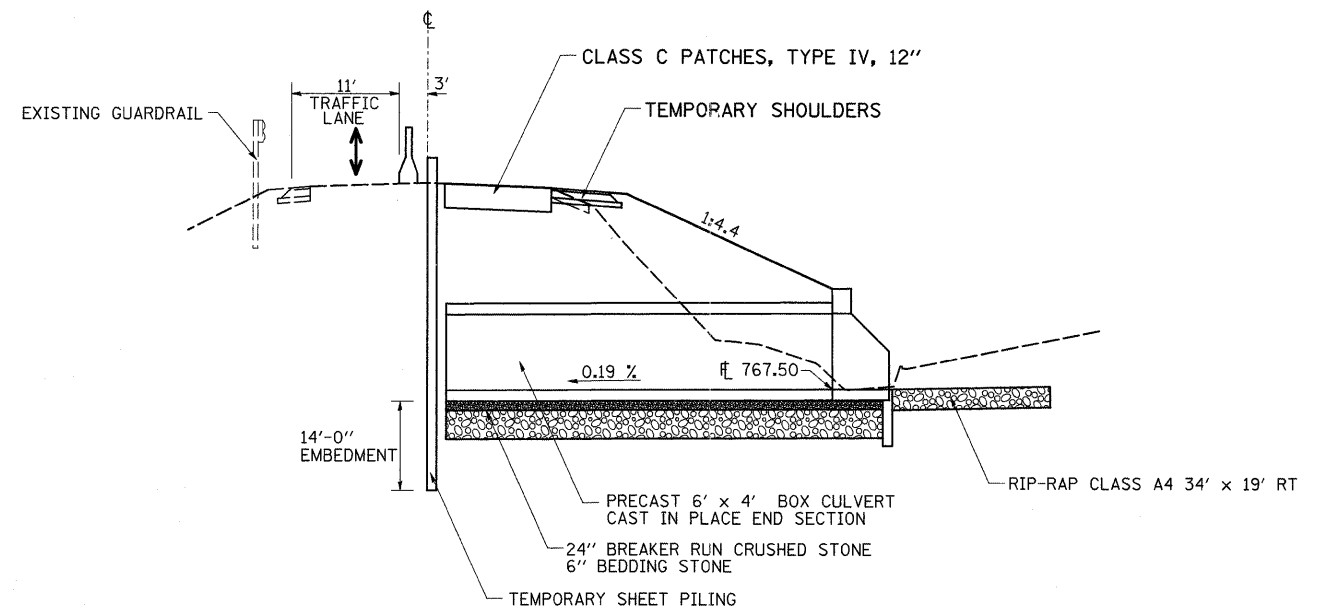
6'x4' Precast Box Culvert @ 35 Skew

STA. 777 + 76

STAGE 1



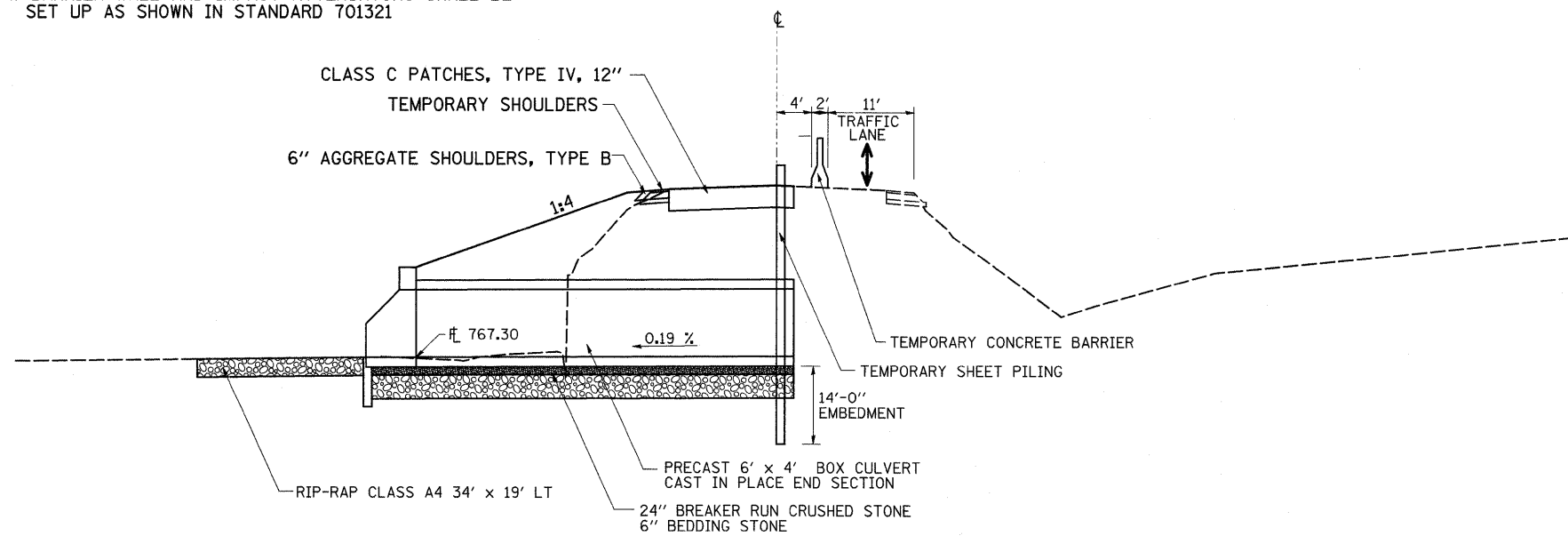
STAGE 2



GENERAL NOTES:

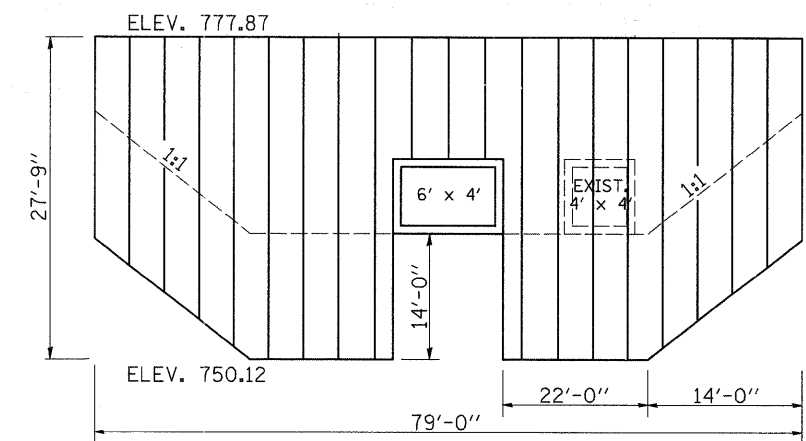
- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 4) BARRIER WALL AND IMPACT ATTENUATORS SHALL BE SET UP AS SHOWN IN STANDARD 701321

STAGE 3



TEMPORARY SHEET PILING

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations sealed by an Illinois Licensed Structural Engineer will be required for review and acceptance by the Engineer.



SECTION MODULUS (s) = 19.0 in³/ft

| | | | | | | | | | | | | |
|---|----------------------|------------|-----------|---|---------------------------------|-----------|----|-------------|---------|---------|---------------------|---------------------------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STAGING TYPICAL SECTIONS | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct\pw_work\PWIDOT\HENSONKE\dms34455\dl1506typ.dgn | | DRAWN - | REVISED - | | | | | 611 | 103T-2 | HENRY | 35 | 7 |
| | | CHECKED - | REVISED - | | CONTRACT NO. 64C66 | | | | | | | |
| | | DATE - | REVISED - | | SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

| UNIT | LOCATION | REMARK'S |
|-----------|--------------|----------|
| 10 | 777 + 70 | 75' RT |
| 10 | 777 + 70 | 68' RT |
| 8 | 777 + 34 | 67' RT |
| 8 | 777 + 30 | 87' RT |
| 36 | TOTAL | |

20200100 EARTH EXCAVATION

| CU_YD | LOCATION | REMARK'S |
|------------|-------------------------|----------|
| 320 | 775 + 80 TO 779 + 50 RT | |
| 320 | TOTAL | |

25100630 EROSION CONTROL BLANKET

| SQ_YD | LOCATION | REMARK'S |
|------------|-------------------------|-----------|
| 100 | 777 + 60 TO 779 + 10 RT | 150' X 6' |
| 100 | TOTAL | |

25100900 TURF REINFORCEMENT MAT

| SQ_YD | LOCATION | REMARK'S |
|------------|------------------------|-----------|
| 300 | 775 + 50 TO 780 + 0 RT | 450' X 6' |
| 300 | TOTAL | |

28000300 TEMPORARY DITCH CHECKS

| EACH | LOCATION | REMARK'S |
|----------|--------------|----------|
| 1 | 776 + 80 RT | |
| 1 | 777 + 70 RT | |
| 1 | 776 + 30 RT | |
| 1 | 778 + 20 RT | |
| 4 | TOTAL | |

28000400 PERIMETER EROSION BARRIER

| FOOT | LOCATION | REMARK'S |
|------------|-------------------------|----------|
| 242 | 777 + 49 TO 779 + 50 LT | |
| 242 | TOTAL | |

28000500 INLET AND PIPE PROTECTION

| EACH | LOCATION | REMARK'S |
|----------|--------------|--------------------|
| 1 | 777 + 47 RT | END OF 6X4 CULVERT |
| 1 | TOTAL | |

28100107 STONE RIPRAP, CLASS A4

| SQ_YD | LOCATION | REMARK'S |
|------------|--------------|----------|
| 72 | 777 + 40 RT | |
| 72 | 778 + 19 LT | |
| 144 | TOTAL | |

28200200 FILTER FABRIC

| SQ_YD | LOCATION | REMARK'S |
|------------|--------------|----------|
| 72 | 777 + 40 RT | |
| 72 | 778 + 19 LT | |
| 144 | TOTAL | |

44201383 CLASS C PATCHES, TYPE III, 12 INCH

| SQ_YD | LOCATION | REMARK'S |
|------------|----------------------|----------|
| 228 | 777 + 40 TO 778 + 19 | |
| 228 | TOTAL | |

48101200 AGGREGATE SHOULDER, TYPE B

| TON | LOCATION | REMARK'S |
|------------|-----------------------------|----------|
| 28 | 775 + 50 TO 777 + 40RT | |
| 21 | 777 + 40 TO 778 + 19LT & RT | |
| 35 | 778 + 19 TO 779 + 75LT & RT | |
| 19 | 779 + 6 TO 779 + 75LT & RT | |
| 103 | TOTAL | |

50100100 REMOVAL OF EXISTING STRUCTURES

| EACH | LOCATION | REMARK'S |
|----------|--------------|----------|
| 1 | 777 + 90 | |
| 1 | TOTAL | |

51205200 TEMPORARY SHEET PILING

| SQ_FT. | LOCATION | REMARK'S |
|-------------|----------------------|----------|
| 1993 | 777 + 40 TO 778 + 19 | |
| 1993 | TOTAL | |

SCHEDULE OF QUANTITIES

54010604 PRECAST CONCRETE BOX CULVERT 6' X 4'

| FOOT | LOCATION | REMARK'S |
|------|----------|----------|
| 96 | 777+ 76 | |
| 96 | TOTAL | |

54001001 BOX CULVERT END SECTION, CULVERT NO. 1

| EACH | LOCATION | REMARK'S |
|------|----------------|----------|
| 1 | 777+ 50 43' RT | |
| 1 | 778+ 5 43' LT | |
| 2 | TOTAL | |

63200310 GUARDRAIL REMOVAL

| FOOT | LOCATION | REMARK'S |
|------|-----------------------|----------|
| 104 | 777+ 56 TO 778+ 60 LT | |
| 104 | 777+ 20 TO 778+ 24 RT | |
| 208 | TOTAL | |

63500105 DELINEATORS

| EACH | LOCATION | REMARK'S |
|------|----------|--------------------------------------|
| 1 | 777+ 24 | AT CORNERS OF END SECTION WING WALLS |
| 1 | 777+ 56 | AT CORNERS OF END SECTION WING WALLS |
| 1 | 777+ 96 | AT CORNERS OF END SECTION WING WALLS |
| 1 | 778+ 28 | AT CORNERS OF END SECTION WING WALLS |
| 4 | TOTAL | |

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

| EACH | LOCATION | REMARK'S |
|------|-------------------|----------|
| 1 | 777+ 33.83 35' LT | |
| 1 | 778+ 0 85' LT | |
| 1 | 778+ 25 85' LT | |
| 1 | 778+ 50 55' LT | |
| 1 | 779+ 50 35' LT | |
| 1 | 775+ 50 33.82 RT | |
| 1 | 776+ 0 60' RT | |
| 1 | 776+ 75 65' RT | |
| 1 | 777+ 0 100' RT | |
| 1 | 777+ 50 100' RT | |
| 1 | 779+ 0 55' RT | |
| 1 | 780+ 0.00 37' RT | |
| 12 | TOTAL | |

66700305 PERMANENT SURVEY MARKERS, TYPE II

| EACH | LOCATION | REMARK'S |
|------|----------|--|
| 1 | | AR Culvert - Location determined by District office - Chief of Surveys |
| 1 | TOTAL | |

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

| EACH | LOCATION | REMARK'S |
|------|------------|---------------------------|
| | 774+ 21.24 | |
| | 780+ 86.76 | |
| | 776+ 65.00 | |
| 1 | TOTAL | ON FROG POND ROAD (CH 36) |

70106700 TEMPORARY RUMBLE STRIPS

| EACH | LOCATION | REMARK'S |
|------|----------|----------|
| 1 | 767+ 30 | |
| 1 | 762+ 30 | |
| 1 | 757+ 30 | |
| 1 | 788+ 31 | |
| 1 | 793+ 31 | |
| 1 | 798+ 31 | |
| 6 | TOTAL | |

70300220 TEMPORARY PAVEMENT MARKING 4"

| FOOT | LOCATION | REMARK'S |
|------|--------------------|----------|
| 641 | 774+ 90 TO 781+ 31 | STAGE 2 |
| 327 | 776+ 16 TO 779+ 43 | STAGE 2 |
| 657 | 773+ 81 TO 780+ 38 | STAGE 3 |
| 282 | 776+ 32 TO 779+ 14 | STAGE 3 |
| 1907 | TOTAL | |

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

| FOOT | LOCATION | REMARK'S |
|------|----------|----------|
| 12 | 774+ 30 | |
| 12 | 781+ 31 | |
| 24 | TOTAL | |

70301000 WORKZONE PAVEMENT MARKING REMOVAL

| SQ. FT | LOCATION | REMARK'S |
|--------|--------------------|----------|
| 327 | 776+ 16 TO 779+ 43 | RT |
| 184 | 777+ 30 TO 779+ 14 | LT |
| 48 | STOP BARS | |
| 731 | TOTAL | |

SCHEDULE OF QUANTITIES

70400100 TEMPORARY CONCRETE BARRIER

| FOOT | LOCATION | REMARK'S |
|------------|----------------------|----------|
| 387 | 775 + 86 TO 779 + 73 | |
| 387 | TOTAL | |

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

| FOOT | LOCATION | REMARK'S |
|------------|----------------------|----------|
| 312 | 776 + 23 TO 779 + 35 | |
| 312 | TOTAL | |

78001110 PAINT PAVEMENT MARKING—LINE 4"

| FOOT | LOCATION | REMARK'S |
|-------------|-------------------------|---------------------------------------|
| 360 | 774 + 30 TO 781 + 31 | YELLOW 2 COATS |
| 1402 | 774 + 30 TO 781 + 31 RT | WHITE 2 COATS |
| 1282 | 774 + 30 TO 781 + 31 LT | WHITE 2 COATS, OMIT AT FROG POND ROAD |
| 3044 | TOTAL | |

78300100 PAVEMENT MARKING REMOVAL

| SQ. FT | LOCATION | REMARK'S |
|------------|-------------------------|----------|
| 109 | 776 + 16 TO 779 + 43 RT | STAGE 2 |
| 61 | 777 + 30 TO 779 + 14 LT | STAGE 3 |
| 170 | TOTAL | |

Z0005400 BREAKER—RUN CRUSHED STONE

| TON | LOCATION | REMARK'S |
|------------|--------------|--|
| 166 | 777 + 76 | 109' X 10' UNDER BOX CULVERT (24 inch) |
| 166 | TOTAL | |

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

| EACH | LOCATION | REMARK'S |
|----------|--------------|----------|
| 1 | 775 + 86 | STAGE 2 |
| 1 | 779 + 73 | STAGE 2 |
| 2 | TOTAL | |

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

| EACH | LOCATION | REMARK'S |
|----------|--------------|----------|
| 1 | 775 + 86 | STAGE 3 |
| 1 | 779 + 73 | STAGE 3 |
| 2 | TOTAL | |

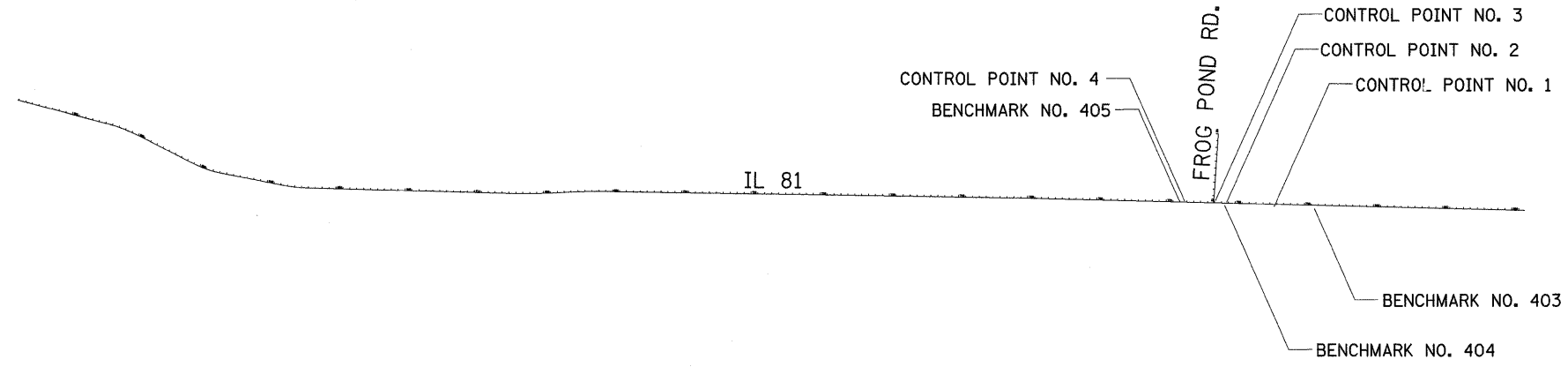
Z0064505 SECTION CORNER MARKERS

| EACH | LOCATION | REMARK'S |
|----------|---------------------|----------|
| 1 | 777 + 93.4 0.78' RT | |
| 1 | TOTAL | |

X4810100 TEMPORARY SHOULDERS

| SQ. YD | LOCATION | REMARK'S |
|------------|-------------------------|--|
| 116 | 776 + 6 TO 779 + 53 RT | 3' WIDE STAGE 2, to remain in when project is complete. |
| 63 | 777 + 35 TO 779 + 24 LT | 3' WIDE, STAGE 3, to remain in when project is complete. |
| 179 | TOTAL | |

HORIZONTAL & VERTICAL CONTROL



Chain IL81 contains:
1003 CUR 300 CUR 310 CUR 320 CUR 330 CUR 340 350 13

Beginning chain IL81 description

Point 1003 N 1,687,088.7657 E 2,295,423.3042 Sta 601+89.6100

Course from 1003 to PC 300 104° 50' 41.9000" Dist 1,343.7111'

Curve Data

Curve 300
P.I. Station 617+84.1603 N 1,686,680.2346 E 2,296,964.6325
Delta = 12° 29' 04.9460" (RT)
Degree = 2° 29' 54.5333"
Tangent = 250.8392'
Length = 499.6918'
Radius = 2,293.2241'
External = 13.6779'
Long Chord = 498.7038'
Mid. Ord. = 13.5969'
P.C. Station 615+33.3211 N 1,686,744.5008 E 2,296,722.1657
P.T. Station 620+33.0129 N 1,686,565.0718 E 2,297,187.4729
C.C. N 1,684,527.8187 E 2,296,134.6307

Course from PT 300 to PC 310 117° 14' 43.3485" Dist 857.3879'

Curve Data

Curve 310
P.I. Station 630+93.8809 N 1,686,079.4093 E 2,298,130.6445
Delta = 16° 10' 06.5781" (LT)
Degree = 3° 59' 58.4528"
Tangent = 203.4800'
Length = 404.2558'
Radius = 1,432.5484'
External = 14.3790'
Long Chord = 402.9158'
Mid. Ord. = 14.2362'
P.C. Station 628+90.4009 N 1,686,172.5578 E 2,297,949.7371
P.T. Station 632+94.6566 N 1,686,040.3210 E 2,298,330.3348
C.C. N 1,687,446.1892 E 2,298,605.5252

Course from PT 310 to PC 320 101° 04' 31.0000" Dist 918.6902'

| CURVE POINT NUMBERS | | | | | | |
|---------------------|-------|-----|-----|-----|-----|--|
| CHAIN | CURVE | PI | CC | PC | PT | |
| IL81 | 300 | 300 | 301 | 302 | 303 | |
| IL81 | 310 | 310 | 311 | 312 | 313 | |
| IL81 | 320 | 320 | 321 | 322 | 323 | |
| IL81 | 330 | 330 | 331 | 332 | 333 | |
| IL81 | 340 | 340 | 341 | 342 | 343 | |

| REFERENCE TIES | | | | | |
|----------------|-------|-------------|--------------|-------------------------|--|
| POINT | CHAIN | STATION | OFFSET | DESCRIPTION | |
| 500 | IL81 | 784+29.5729 | 34.5382' RT | POWER POLE, PK NAIL | |
| 501 | IL81 | 785+69.8003 | 58.2355' RT | TREE DECIDUOUS, NAIL | |
| 503 | IL81 | 786+12.6283 | 21.7768' RT | MAILBOX, NAIL | |
| 505 | IL81 | 778+46.9234 | 33.7526' RT | POWER POLE, NAIL | |
| 506 | CH36 | 10+42.4637 | 203.2837' RT | FENCE POST, NAIL | |
| 510 | IL81 | 773+52.9372 | 34.5043' LT | POWER POLE, PK NAIL | |
| 511 | IL81 | 772+79.1770 | 33.2057' LT | TREE DECIDUOUS, PK NAIL | |
| 512 | IL81 | 772+52.2285 | 35.5954' LT | STUMP | |
| 3592 | IL81 | 777+33.8812 | 33.0342' RT | POWER POLE | |
| 4287 | IL81 | 777+34.9675 | 35.2849' LT | TELEPHONE SPLICE BOX | |
| 4377 | IL81 | 778+59.5057 | 18.7472' LT | SIGN | |
| 4367 | IL81 | 777+57.4288 | 19.0460' LT | SIGN | |

| HORIZONTAL CONTROL POINTS | | | | | | | |
|---------------------------|--------------|--------------|-----------|-------|--------------|-------------|---|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 1 | 1685572.1440 | 2323575.0830 | 798.0840 | IL92 | 1091+87.1398 | 19.7095' RT | 5/8" DIA. W/AMENT CAP GPS CONTROL POINT |
| 2 | 1685636.8580 | 2312890.6710 | 776.5940 | IL92 | 1101+03.5187 | 15.9782' LT | 5/8" DIA. W/AMENT CAP GPS CONTROL POINT |
| 3 | 1685660.8400 | 1312727.8730 | 778.2360 | IL92 | 1101+03.5187 | 15.9782' LT | 5/8" DIA. W/AMENT CAP GPS CONTROL POINT |
| 4 | 1685652.7170 | 2312279.8100 | 777.6800 | IL92 | 1101+03.5187 | 15.9782' LT | 5/8" DIA. W/AMENT CAP GPS CONTROL POINT |

| SURVEY WORK POINTS | | | | | | | |
|--------------------|--------------|--------------|-----------|-------|--------------|-------------|-------------------------|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 100 | 1685541.8610 | 2312774.9430 | 772.4780 | CH36 | 19+18.6985 | 13.3108' RT | TOPO SURVEY POINT, NAIL |
| 102 | 1685405.5870 | 2312545.0770 | 771.8950 | CH36 | OUT OF CHAIN | ----- | TOPO SURVEY POINT, NAIL |

| BENCH MARKS | | | | | | | |
|-------------|--------------|--------------|-----------|-------|-------------|-------------|-----------------------------|
| POINT | NORTH | EAST | ELEVATION | CHAIN | STATION | OFFSET | DESCRIPTION |
| 403 | 1685538.2300 | 2314157.0960 | 797.6500 | IL81 | 791+46.0436 | 52.6628' RT | PIPE CULVERT, TOP |
| 404 | 1685588.8380 | 2312858.5780 | 775.0380 | IL81 | 778+46.6826 | 33.3923' RT | POWER POLE, RAIL ROAD SPIKE |
| 405 | 1685660.1080 | 2312201.2430 | 776.7220 | IL81 | 771+87.8197 | 22.0008' LT | HEADWALL, CHISELED SQUARE |

Curve Data

Curve 320
P.I. Station 644+04.8468 N 1,685,827.3913 E 2,299,419.9139
Delta = 9° 26' 51.5148" (LT)
Degree = 2° 28' 20.4668"
Tangent = 191.5000'
Length = 382.1318'
Radius = 2,317.4605'
External = 7.8987'
Long Chord = 381.6990'
Mid. Ord. = 7.8719'
P.C. Station 642+13.3468 N 1,685,863.8420 E 2,299,231.9150
P.T. Station 645+95.4786 N 1,685,822.2943 E 2,299,611.3460
C.C. N 1,688,138.9338 E 2,299,673.0279

Course from PT 320 to PC 330 91° 31' 30.6251" Dist 2,895.0834'

Curve Data

Curve 330
P.I. Station 678+60.8121 N 1,685,735.3837 E 2,302,875.5227
Delta = 4° 56' 00.0251" (LT)
Degree = 0° 39' 59.8657"
Tangent = 370.2500'
Length = 740.0425'
Radius = 8,594.8479'
External = 7.9711'
Long Chord = 739.8139'
Mid. Ord. = 7.9639'
P.C. Station 674+90.5621 N 1,685,745.2383 E 2,302,505.4038
P.T. Station 682+30.6045 N 1,685,757.3945 E 2,303,245.1178
C.C. N 1,694,337.0412 E 2,302,734.1657

Course from PT 330 to PC 340 86° 35' 30.6000" Dist 56.8971'

Curve Data

Curve 340
P.I. Station 686+02.6416 N 1,685,779.5116 E 2,303,616.4969
Delta = 4° 12' 33.3273" (RT)
Degree = 0° 40' 05.3034"
Tangent = 315.1400'
Length = 629.9965'
Radius = 8,575.4173'
External = 5.7886'
Long Chord = 629.8548'
Mid. Ord. = 5.7847'
P.C. Station 682+87.5016 N 1,685,760.7770 E 2,303,301.9142
P.T. Station 689+17.4981 N 1,685,775.1056 E 2,303,931.6061
C.C. N 1,677,200.5264 E 2,303,811.7113

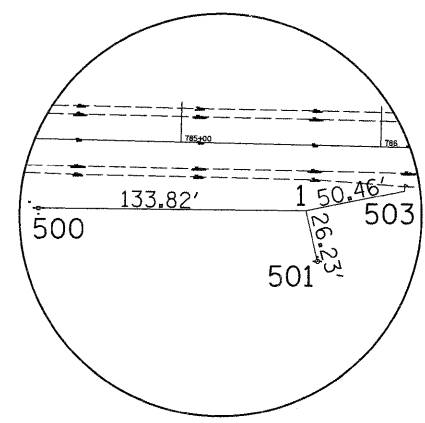
Course from PT 340 to 350 90° 48' 03.9273" Dist 6,163.6887'

Point 350 N 1,685,688.9297 E 2,310,094.6923 Sta 750+81.1868

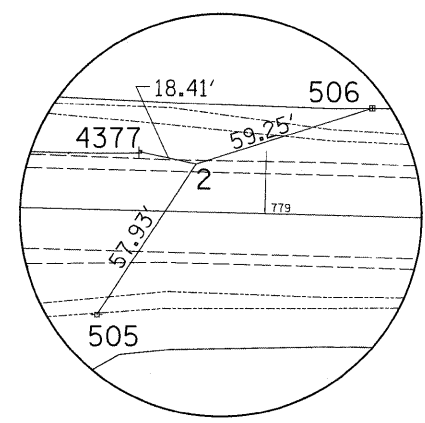
Course from 350 to 13 91° 22' 55.9880" Dist 7,103.1585'

Point 13 N 1,685,517.5878 E 2,317,195.7840 Sta 821+84.3453

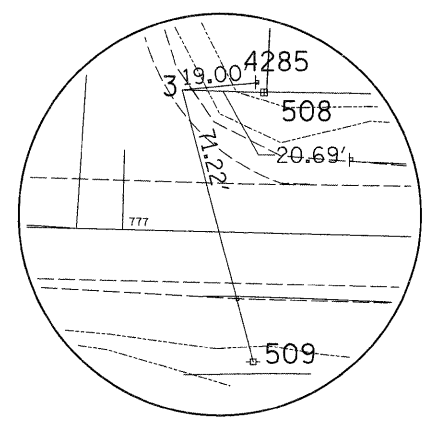
Ending chain IL81 description



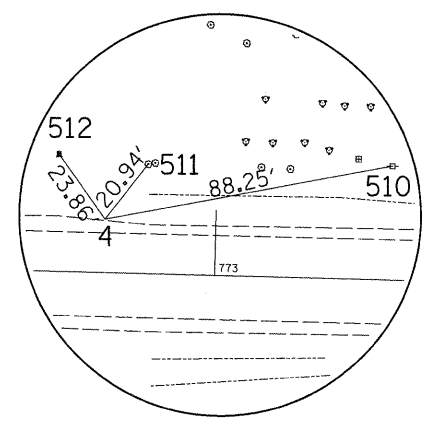
HORIZONTAL CONTROL POINT NO. 1



HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4

| | | | |
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| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

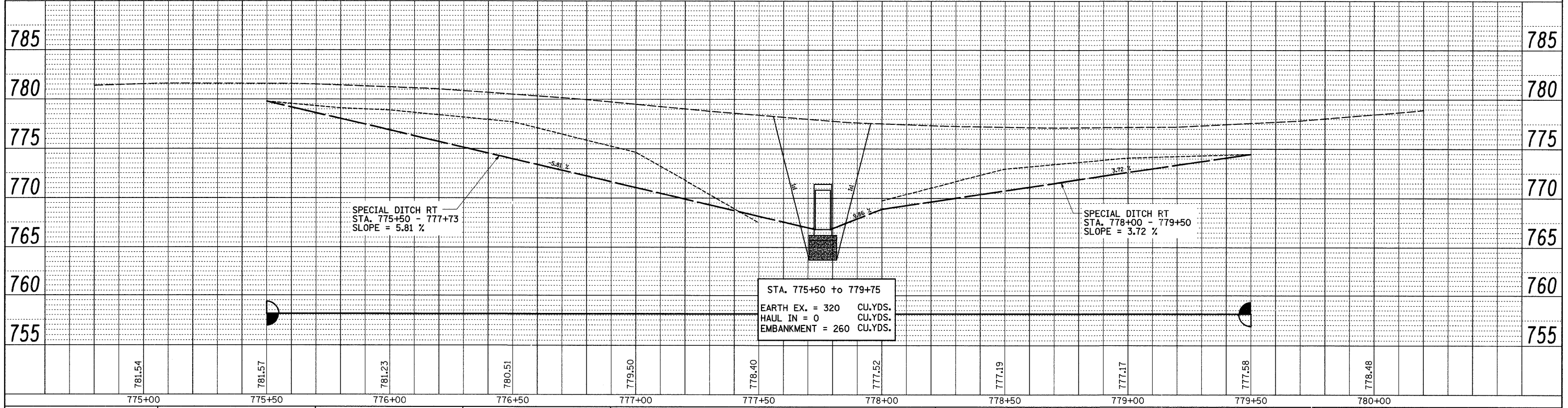
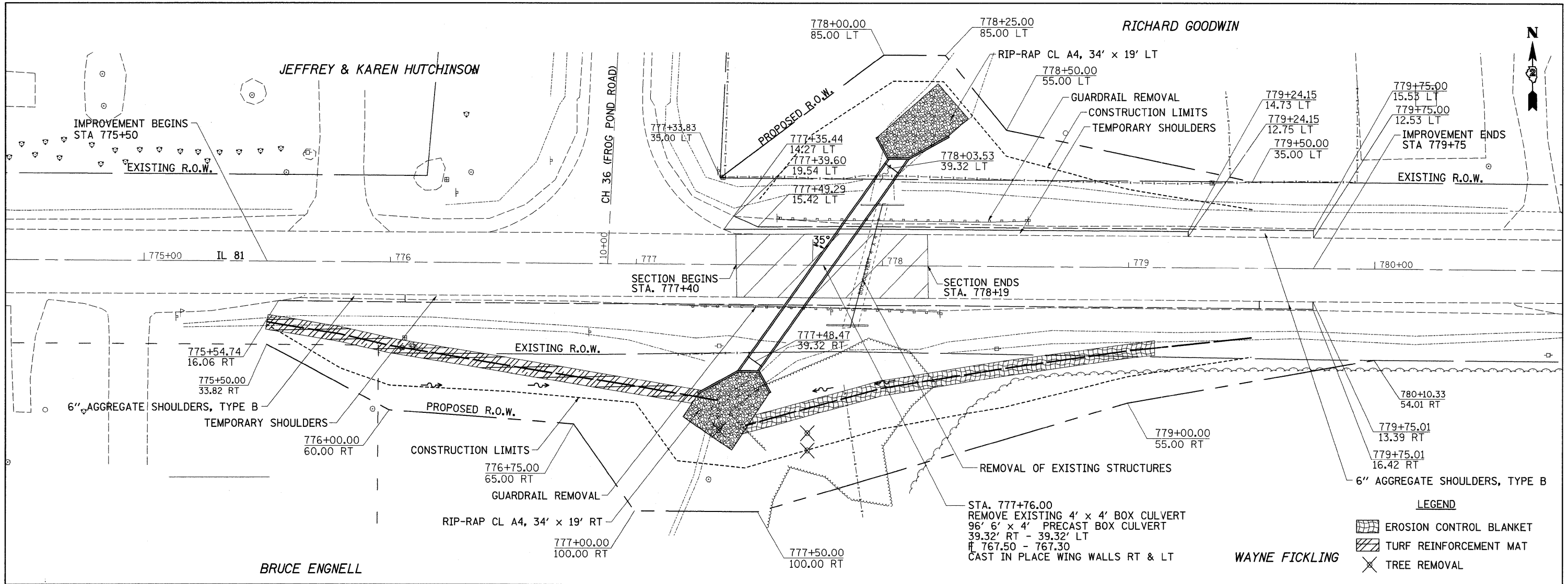
HORIZONTAL & VERTICAL CONTROL

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------------|-----------|
| 611 | 103T-2 | HENRY | 35 | 11 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 64C66 | |

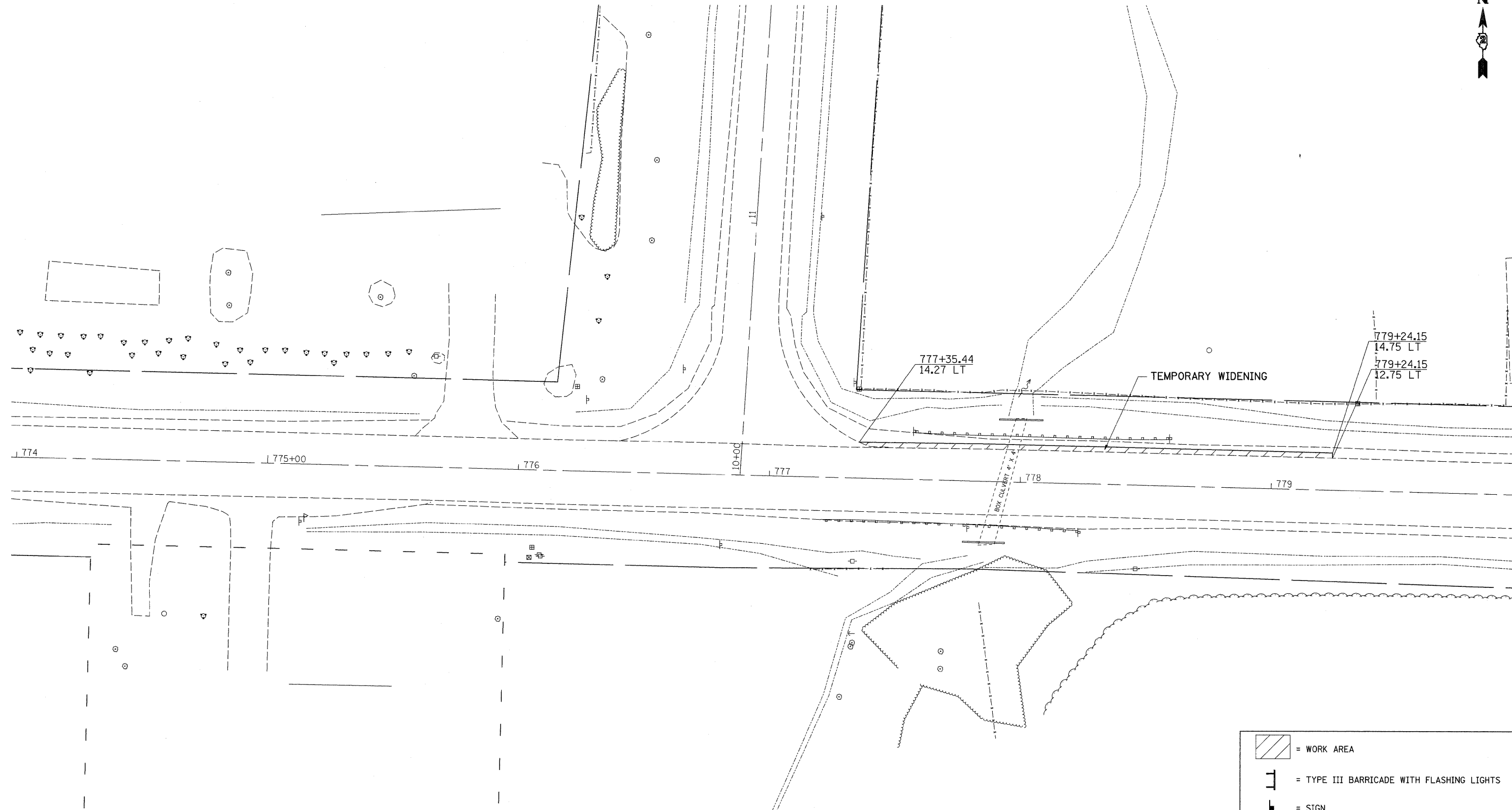
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 BY: _____
 SURVEYED: _____
 PLAN: _____
 ALIGNED: _____
 CHECKED: _____
 RT. OF WAY: _____
 RT. OF WAY: _____
 RT. OF WAY: _____
 NO. _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PROFILE: _____
 CHECKED: _____
 B.M. NOTED: _____
 STRUCTURE: _____
 NOTATIONS: _____
 NO. _____



| | | | | | | | | | | |
|--|----------------------|------------|---|---|-------------------|----------------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN SHEET | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 01\pw_work\PWIDOT\HENSONKE\dms34455\dl1546p1.dgn | DRAWN - | REVISED - | 611 | | | 103T-2 | HENRY | 35 | 12 | |
| PLOT SCALE = 20.0000' / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:56:33 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |
| SCALE: | | | | | | SHEET NO. OF SHEETS STA. TO STA. | | | | |

STAGE 1



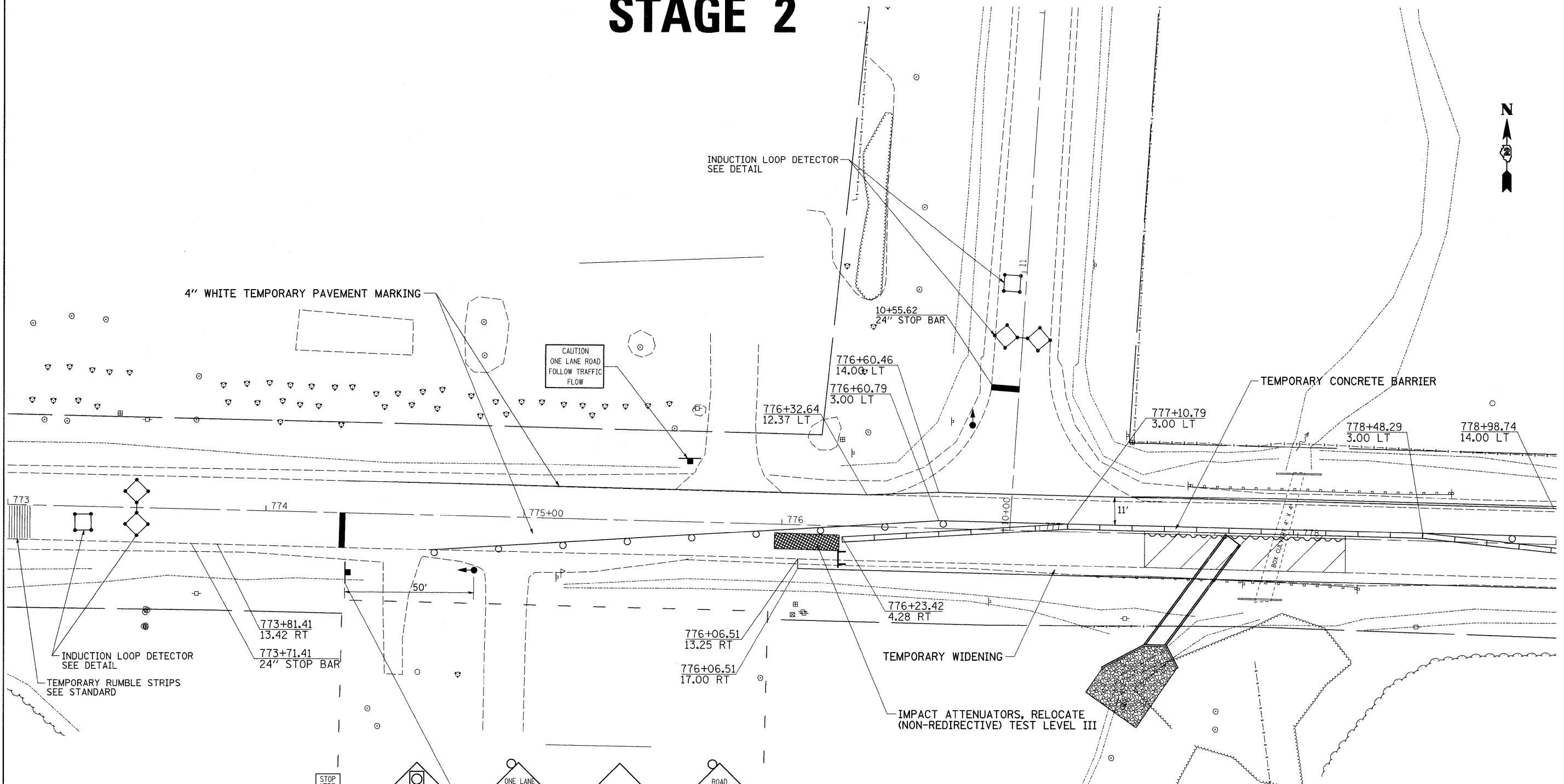
STAGE 1 NOTES

1. USE STANDARD 701201 FOR SHOULDER WORK.
2. PLACE 2' WIDE TEMPORARY SHOULDERS STA. 777+35.44 TO STA. 779+24.15 LT.

| | |
|--|---|
| | = WORK AREA |
| | = TYPE III BARRICADE WITH FLASHING LIGHTS |
| | = SIGN |
| | = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS |
| | = INDUCTION LOOP DETECTOR |
| | = TRAFFIC SIGNAL |

| | | | | | | | | | | | | |
|---|-----------------------------|------------|-----------|---|----------------------|--|---------------------------|-------------|---------|--------|--------------|-----------|
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| | PLOT SCALE = 20.0000' / IN. | DRAWN - | REVISED - | | | | | 611 | 103T-2 | HENRY | 35 | 13 |
| PLOT DATE = Tue Dec 02 13:33:42 2008 | CHECKED - | REVISED - | REVISED - | SCALE: SHEET NO. OF SHEETS STA. TO STA. | | | CONTRACT NO. 64C66 | | | | | |
| | DATE - | REVISED - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | | |

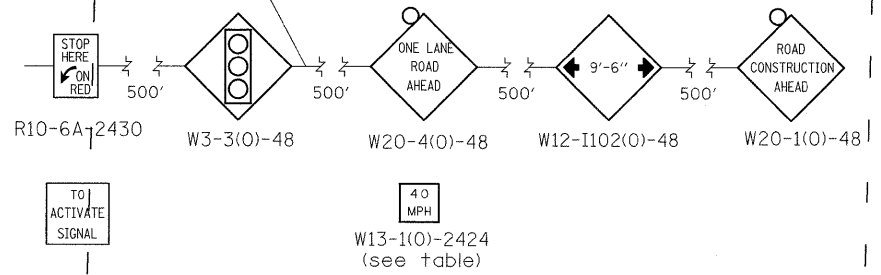
STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. INSTALL TRAFFIC SIGNALS ON SIDE ROAD.
3. CONSTRUCT UPSTREAM SECTION OF CULVERT INCLUDING END SECTION, RIP-RAP, AND EARTHWORK.
4. PLACE CLASS C PATCH OVER REMAINING PATCH AREA.
5. PLACE TEMPORARY SHOULDERS TO BE USED DURING STAGE 3.

| | |
|--|---|
| | = WORK AREA |
| | = TYPE III BARRICADE WITH FLASHING LIGHTS |
| | = SIGN |
| | = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS |
| | = INDUCTION LOOP DETECTOR |
| | = TRAFFIC SIGNAL |



| | | | |
|--|----------------------|------------|-----------|
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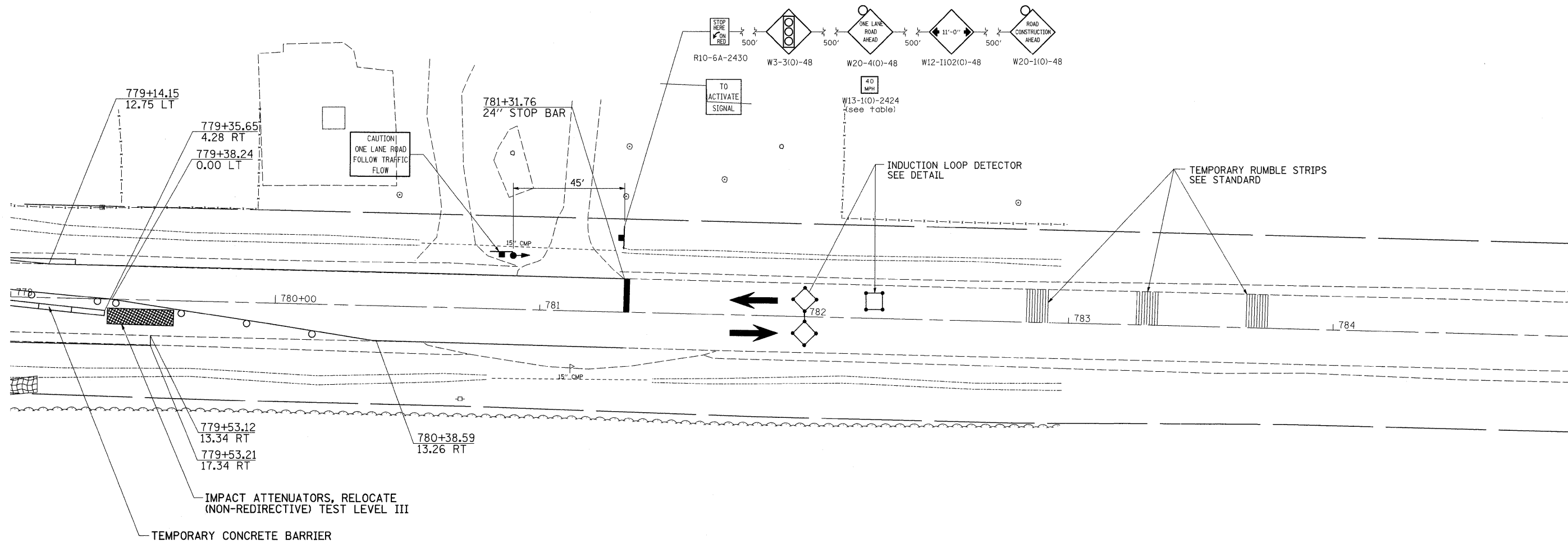
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLANS

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

| | | | | |
|---------------------|---------|---------------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 14 |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NO. 64C66 | | | | |

STAGE 2



STAGE 2 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. INSTALL TRAFFIC SIGNALS ON SIDE ROAD.
3. CONSTRUCT UPSTREAM SECTION OF CULVERT INCLUDING END SECTION, RIP-RAP, AND EARTHWORK.
4. PLACE CLASS C PATCH OVER REMAINING PATCH AREA.
5. PLACE TEMPORARY SHOULDERS TO BE USED DURING STAGE 3.

| | |
|--|---|
| | = WORK AREA |
| | = TYPE III BARRICADE WITH FLASHING LIGHTS |
| | = SIGN |
| | = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS |
| | = INDUCTION LOOP DETECTOR |
| | = TRAFFIC SIGNAL |

| | | | |
|--|----------------------|------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - |
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| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |

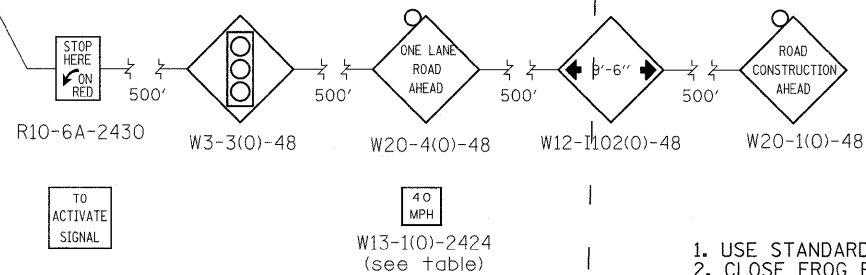
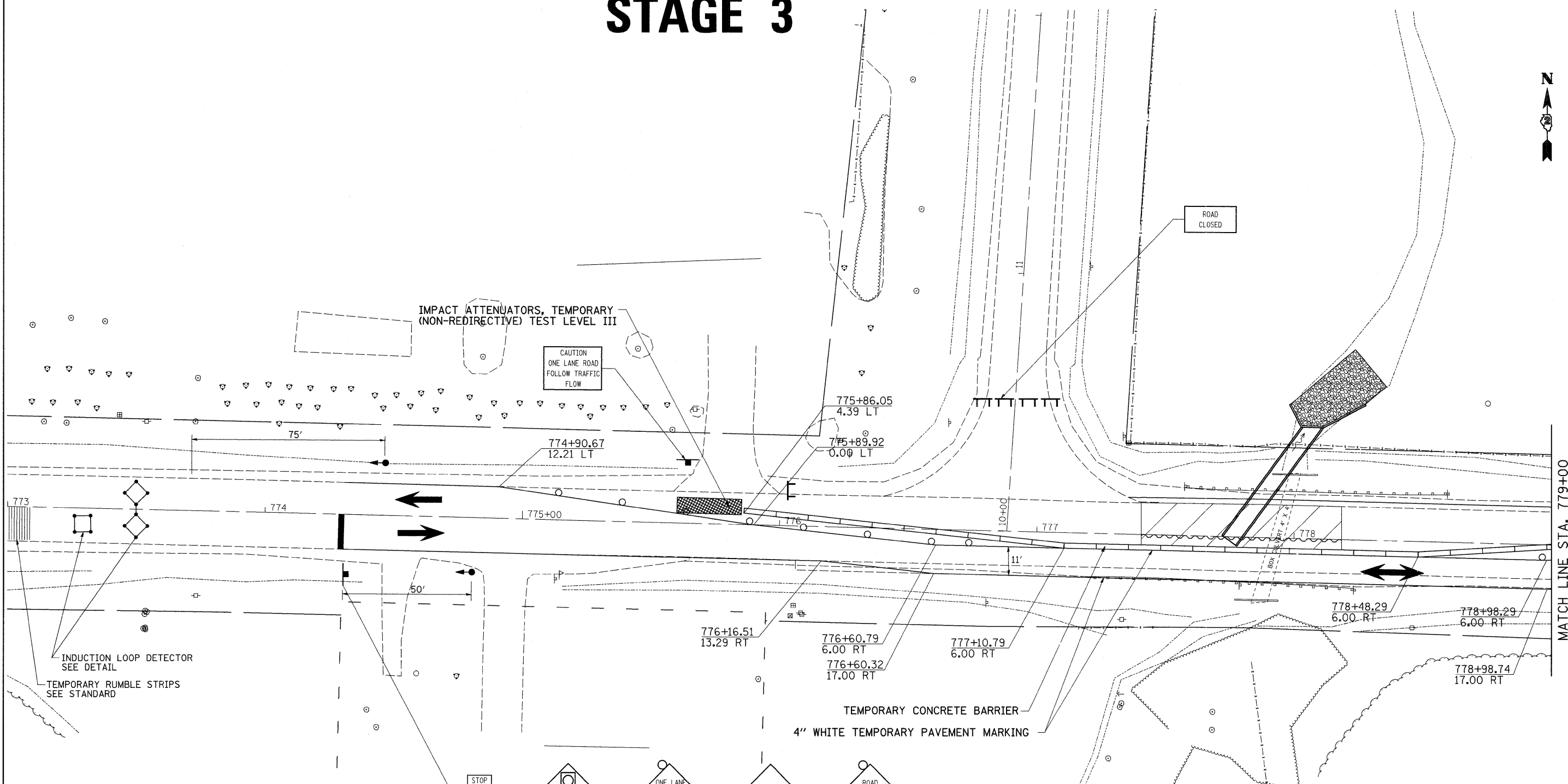
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLANS

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

| | | | | |
|---------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 15 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. 64C66 | | | | |

STAGE 3



STAGE 3 NOTES

1. USE STANDARD 701321 FOR CULVERT WORK.
2. CLOSE FROG POND ROAD DURING STAGE 3 CONSTRUCTION.
3. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERT INCLUDING END SECTION, RIP-RAP, FENCING, AND EARTHWORK.
4. REMOVE ONLY TEMPORARY SHOULDER IN PATCH, REMAINDER TO STAY IN PLACE.
5. PLACE CLASS C PATCH OVER PATCH AREA.
6. ADDITIONAL SIGNING REQUIRED FOR SIDE ROAD AND DRIVEWAY.

| | |
|--|---|
| | = WORK AREA |
| | = TYPE III BARRICADE WITH FLASHING LIGHTS |
| | = SIGN |
| | = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS |
| | = INDUCTION LOOP DETECTOR |
| | = TRAFFIC SIGNAL |

| | | | |
|---|----------------------|------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - |
| ct\pwork\FWIDOT\HENSONKE\dms34455\dl1506stg.dgn | | DRAWN - | REVISED - |
| PLOT SCALE = 20.0000' / IN. | | CHECKED - | REVISED - |
| PLOT DATE = Tue Dec 02 13:33:40 2008 | | DATE - | REVISED - |

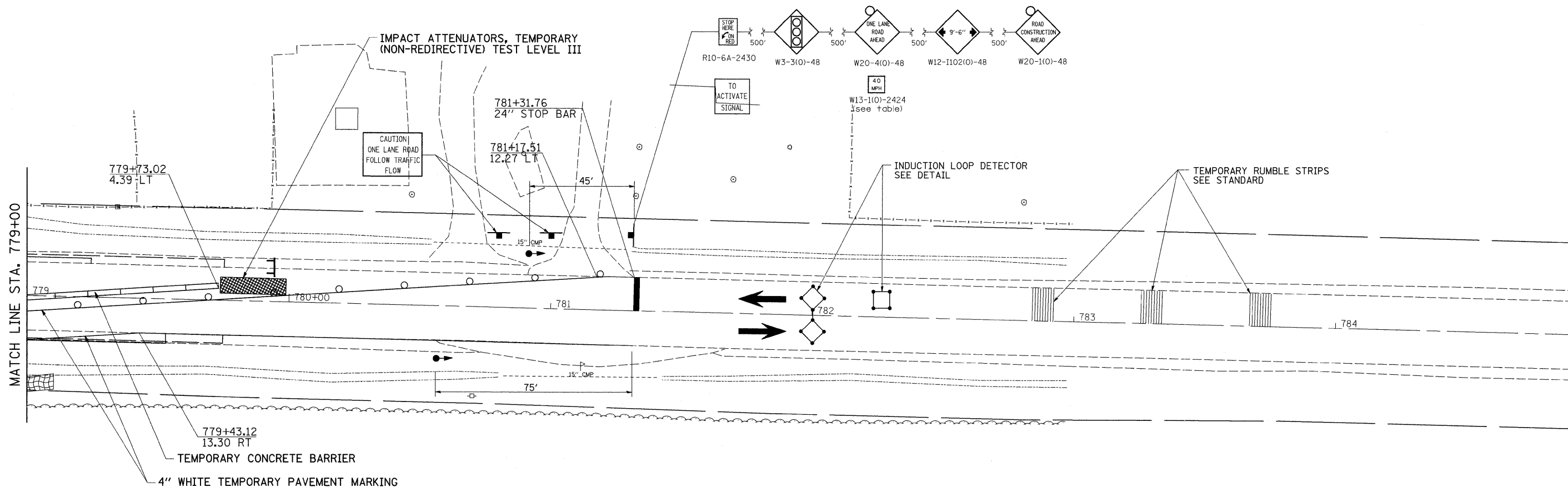
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGING PLANS

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

| | | | | |
|---------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 16 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. 64C66 | | | | |

STAGE 3



1. USE STANDARD 701321 FOR CULVERT WORK.
2. CLOSE FROG POND ROAD DURING STAGE 3 CONSTRUCTION.
3. CONSTRUCT DOWNSTREAM SECTIONS OF CULVERT INCLUDING END SECTION, RIP-RAP, FENCING, AND EARTHWORK.
4. REMOVE ONLY TEMPORARY SHOULDER IN PATCH, REMAINDER TO STAY IN PLACE.
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6. ADDITIONAL SIGNING REQUIRED FOR SIDE ROAD AND DRIVEWAY.

| | |
|--|---|
| | = WORK AREA |
| | = TYPE III BARRICADE WITH FLASHING LIGHTS |
| | = SIGN |
| | = BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS |
| | = INDUCTION LOOP DETECTOR |
| | = TRAFFIC SIGNAL |

| | | | |
|--|----------------------|------------|-----------|
| FILE NAME = | USER NAME = hansonke | DESIGNED - | REVISED - |
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| PLOT SCALE = 20.0000 // IN. | | CHECKED - | REVISED - |
| PLOT DATE = Tue Dec 02 13:33:40 2008 | | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLANS

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

| | | | | |
|---------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 17 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. 64C66 | | | | |

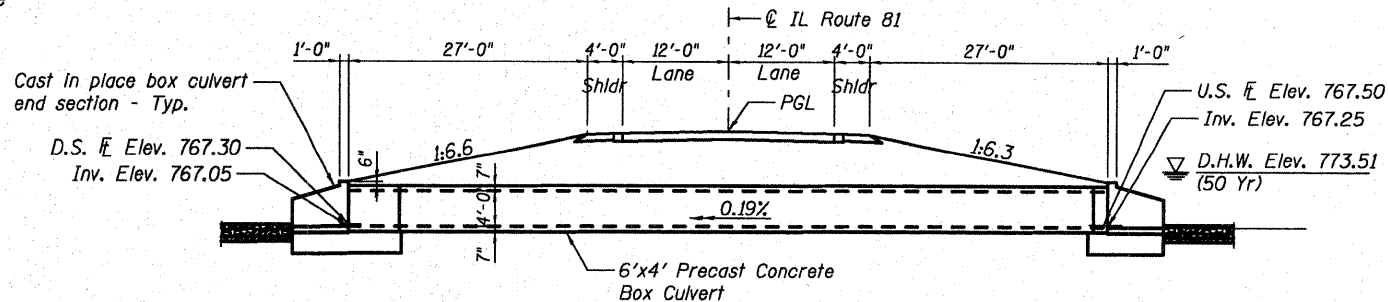
BENCHMARKS

Railroad spike in power pole at Sta. 778+46.68 Offset 33.39' Rt., Elev. 775.04

EXISTING STRUCTURE

S.N.-037-1059 is an existing 4' x 4' precast box culvert.
Traffic will be staged during construction.
No Salvage

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

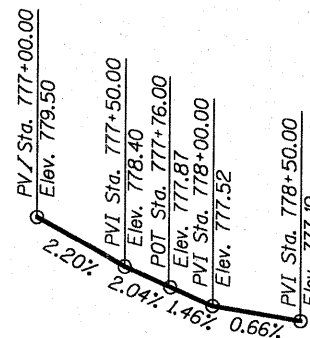


Note:
Precast culvert sections at the ends of each barrel are to have exposed reinforcing bars to be tied into the cast in place portion.

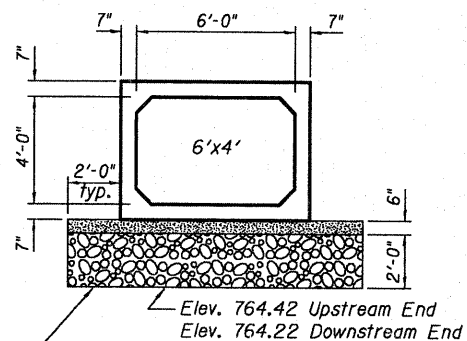
Lap Length = 2'-2"

LONGITUDINAL SECTION
(Looking East)

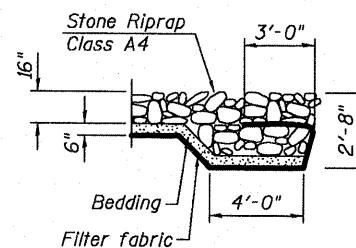
Note: Horizontal dimensions are at Rt. L's to C.Rdwy.



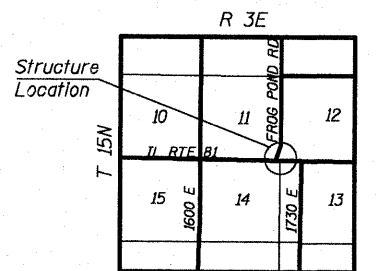
PROFILE GRADE
(along C IL RTE 81)



SECTION THRU PRECAST BARREL



STONE RIPRAP ANCHOR DETAIL



LOCATION SKETCH

STATION 777+76.00
BUILT 2009 BY
STATE OF ILLINOIS
F.A.P. RT. 611 SEC. 103T-2
LOADING HS20
STR. NO. 037-1181

NAME PLATE
See Std. 515001

INDEX OF SHEETS

- S-1 General Plan
- S-2 End Section Details

LOADING HS20-44

Allow 50 #/sq.ft. for future wearing surface

DESIGN SPECIFICATIONS

2002 AASHTO "Standard Specifications for Highway Bridges"
and AASHTO M259 - Precast Reinforced Concrete Box Sections

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (reinf.)

PRECAST UNITS

f'c = 5,000 psi (minimum)
fy = 65,000 psi (welded wire fabric)
fy = 60,000 psi (reinforcement bars)

TOTAL BILL OF MATERIAL

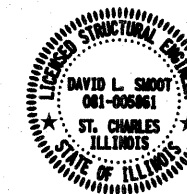
| ITEM | UNIT | TOTAL |
|--------------------------------------|------|-------|
| Removal of Existing Structures | Each | 1 |
| Name Plates | Each | 1 |
| Box Culvert End Section No. 1 | Each | 2 |
| Precast Concrete Box Culvert 6' x 4' | Foot | 96 |

GENERAL NOTES

- Reinforcement shall conform to the requirements of Illinois Modified ASTM A706.
- All exposed edges shall have 3/4" chamfer.
- This box culvert has a fill height > 2.0 feet. The precast concrete box culvert shall conform to the requirements of AASHTO M259.
- Precast end sections are not allowed.
- Remove existing structure including wings/headwalls.

David L. Smoot

David L. Smoot
Date: 11/24/2008
License Expires: 11/30/2010



GENERAL PLAN
IL RTE 81 OVER UN-NAMED
TRIBUTARY TO GREEN RIVER
F.A.P. ROUTE 611 - SECTION 103T-2
HENRY COUNTY, STATION 777+76.00
SN 037-1181

| | |
|----------------|------------------------------------|
| DESIGNED - DLS | 200 |
| CHECKED - AWH | ENGINEER OF BRIDGE DESIGN |
| DRAWN - AWH | PASSED |
| CHECKED - DLS | ENGINEER OF BRIDGES AND STRUCTURES |

WATERWAY INFORMATION

Drainage Area = 108.0 acres
Existing Low Grade Elevation: 777.12 ft. @ 778+69
Proposed Low Grade Elevation: 777.12 ft. @ 778+69

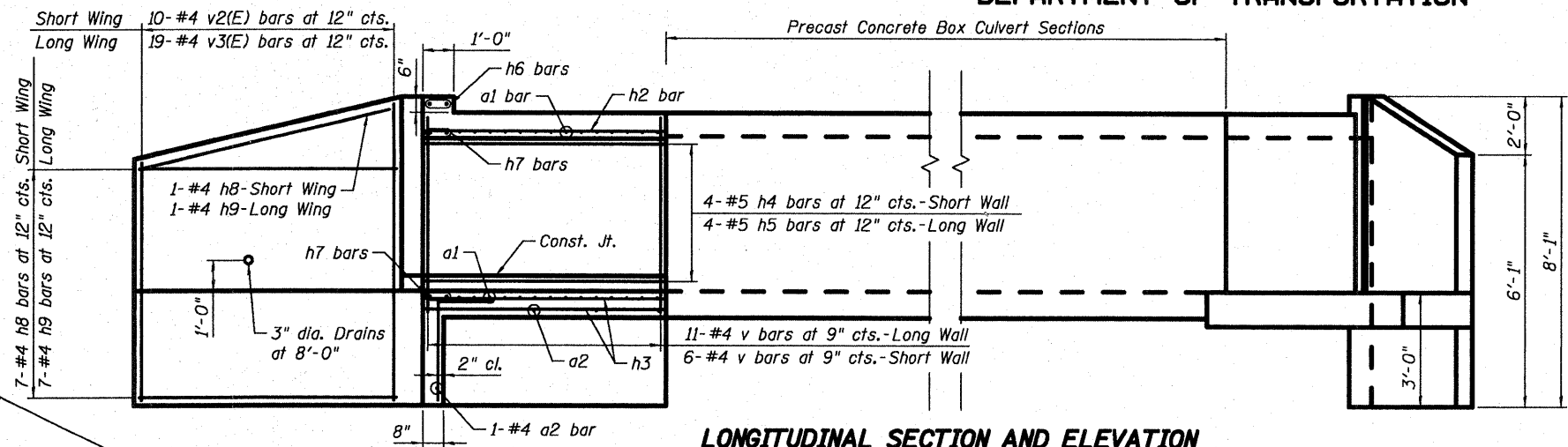
| Flood | Frequency Year | Discharge cfs | Headwater Elev. (ft) | |
|-----------------|----------------|---------------|----------------------|----------|
| | | | Existing | Proposed |
| Ten-Year Design | 10 | 159 | 775.19 | 772.19 |
| Base | 50 | 223 | 777.37 | 773.51 |
| | 100 | 253 | 777.49 | 774.43 |
| OVT (E) | 26 | 193 | 777.12 | |
| OVT (P) | 420 | 342 | | 777.12 |

RHA&A
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 084-005281

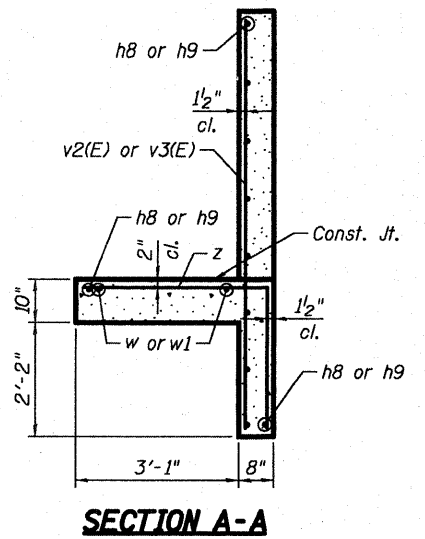
SHEET NO. S-1
2 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------------------|--------------|-----------|
| 611 | 103T-2 | HENRY | 35 | 18 |
| SN 037-1181 | | CONTRACT NO. 64C66 | | |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT | | | | |

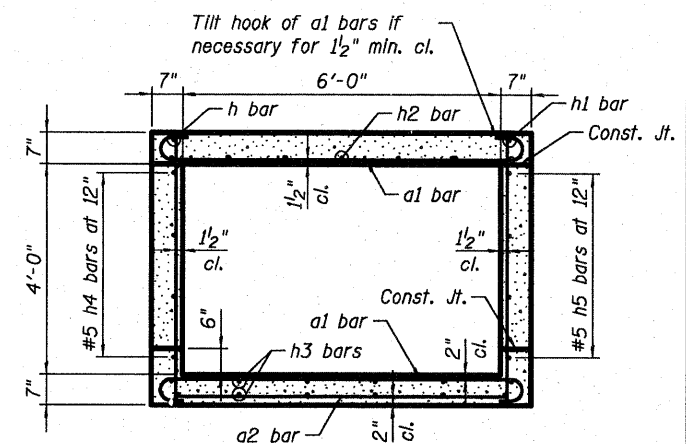
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LONGITUDINAL SECTION AND ELEVATION



SECTION A-A



SECTION THRU BARREL

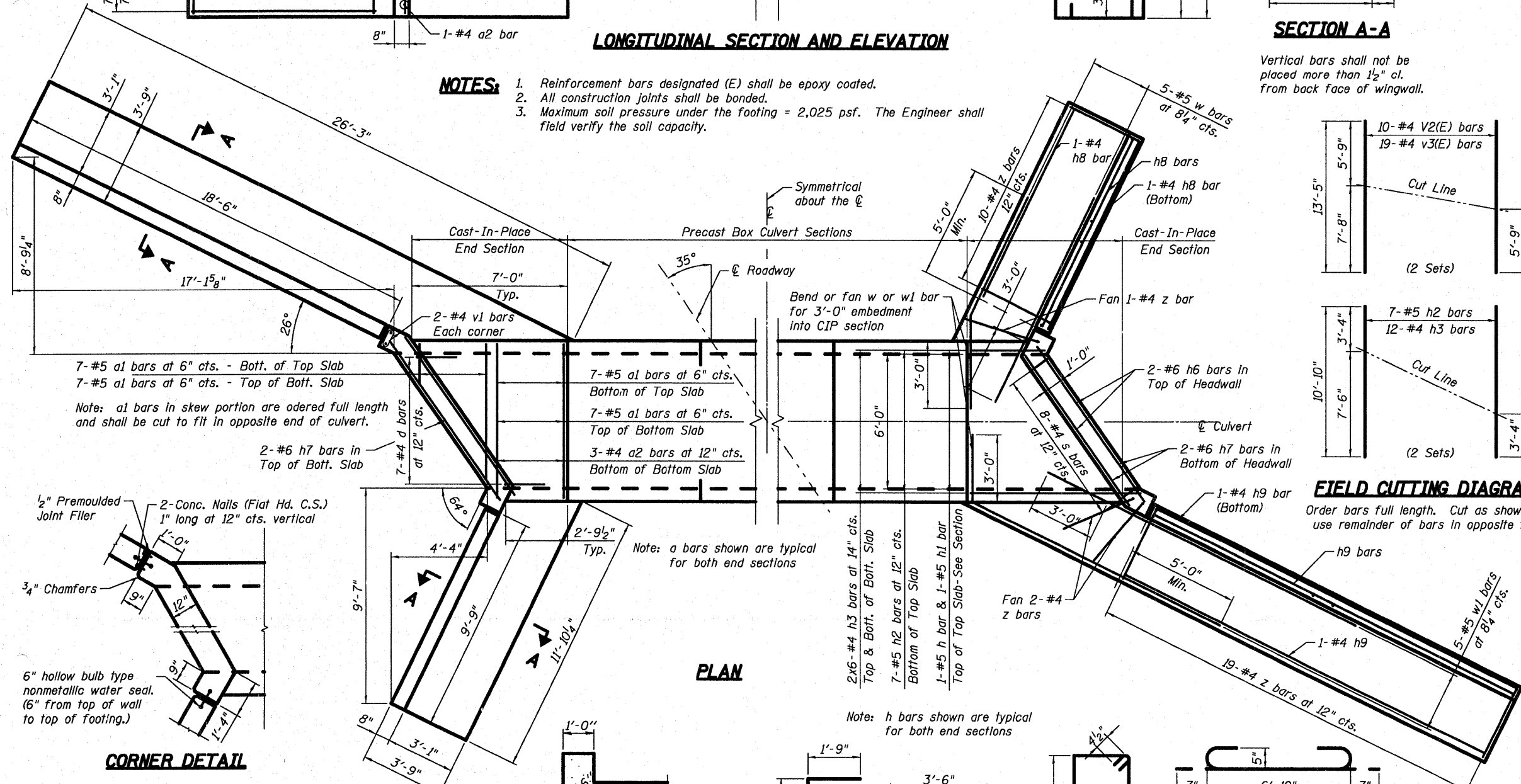
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|----------------------------------|-----|---------|---------|-------|
| a1 | 42 | #5 | 8'-0" | |
| a2 | 8 | #4 | 6'-10" | |
| d | 14 | #4 | 4'-6" | |
| h | 2 | #5 | 3'-4" | |
| h1 | 2 | #5 | 7'-6" | |
| h2 | 7 | #5 | 10'-10" | |
| h3 | 12 | #4 | 10'-10" | |
| h4 | 8 | #5 | 3'-4" | |
| h5 | 8 | #5 | 7'-6" | |
| h6 | 4 | #6 | 8'-2" | |
| h7 | 8 | #6 | 9'-0" | |
| h8 | 20 | #4 | 9'-4" | |
| h9 | 20 | #4 | 18'-0" | |
| s | 16 | #4 | 3'-11" | |
| v | 34 | #4 | 4'-10" | |
| v1 | 8 | #4 | 7'-9" | |
| v2(E) | 10 | #4 | 13'-5" | |
| v3(E) | 19 | #4 | 13'-5" | |
| w | 10 | #5 | 10'-6" | |
| w1 | 10 | #5 | 15'-6" | |
| z | 64 | #4 | 6'-2" | |
| Box Culvert End Section | | Each | 2 | |
| Concrete Structures | | Cu. Yd. | 25 | |
| Reinforcement Bars | | Pound | 1,960 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 260 | |

Note: Bill of Material is for two (2) Box Culvert End Sections and is For Information Only. Box Culvert End Sections shall be paid for as Each.

- NOTES:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. All construction joints shall be bonded.
 3. Maximum soil pressure under the footing = 2,025 psf. The Engineer shall field verify the soil capacity.

Vertical bars shall not be placed more than 1/2" cl. from back face of wingwall.



PLAN

FIELD CUTTING DIAGRAMS

Order bars full length. Cut as shown and use remainder of bars in opposite face.

CORNER DETAIL

SECTION THRU HEADWALL (Up Stream End Only)

BAR d

BAR z

BAR s

BAR a1

| | |
|----------------|------------------------------------|
| DESIGNED - DLS | 200 |
| CHECKED - AWH | EXAMINED |
| DRAWN - AWH | ENGINEER OF BRIDGE DESIGN |
| CHECKED - DLS | PASSED |
| | ENGINEER OF BRIDGES AND STRUCTURES |


END SECTION DETAILS
IL RTE 81 OVER UN-NAMED
TRIBUTARY TO GREEN RIVER
E.A.P. ROUTE 611 - SECTION 103T-2
HENRY COUNTY, STATION 777+76.00
SN 037-1181

RHA&A
Robert H. Anderson & Associates, Inc.
Consulting Engineers
License No. 184-005281

SHEET NO. S-2
2 SHEETS

| | | | | |
|---|----------------|--------------------|-----------------|--------------|
| F.A.P. RTE. 611 | SECTION 103T-2 | COUNTY HENRY | TOTAL SHEETS 35 | SHEET NO. 19 |
| SN 037-1181 | | CONTRACT NO. 64C66 | | |
| FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT | | | | |

BORING LOGS



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/26/06

ROUTE IL 81 DESCRIPTION P92-115-06 Box culvert on IL 81 and County Highway 36, 4 m. E. of Cambridge LOGGED BY P. Drezen

SECTION _____ LOCATION Cambridge Twp. - 12 SW, SEC. , TWP. 15N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-1059 D E L C O S I M
Station _____ P O S I S I
BORING NO. B-1 H S Qu T
Station 771+28 H S Qu T
Offset 9.00ft Rt
Ground Surface Elev. 99.40 ft (ft) (/6") (tsf) (%)

Surface Water Elev. _____ ft
Stream Bed Elev. 90.50 ft
Groundwater Elev.:
First Encounter 72.9 ft ▼
Upon Completion Dry ft
After _____ Hrs.

| Soil Description | Depth (ft) | Penetration (blows/6") | Blow Count (tsf) | Blow Count (%) |
|------------------------------------|------------|------------------------|------------------|----------------|
| Brown LOAM | 77.90 | 1.3 | 23.0 | |
| VERY STIFF brown LOAM | 96.90 | 3 | | |
| | 95.40 | 5 | 4.0 | 20.0 |
| | | 5 | P | |
| STIFF brown SILTY CLAY LOAM | 92.90 | 2 | | |
| | | 5 | 1.3 | 25.0 |
| | | | P | |
| MEDIUM brown/black SILTY CLAY LOAM | 90.40 | 2 | | |
| | | 3 | 0.6 | 35.0 |
| | | | B | |
| MEDIUM black SILTY CLAY | 87.90 | 1 | | |
| | | 3 | 0.7 | 28.0 |
| | | | B | |
| SOFT gray/tan SILTY CLAY | 85.40 | 1 | | |
| | | 3 | 0.5 | 31.0 |
| | | | B | |
| STIFF gray LOAM with ORGANICS | 82.90 | 2 | | |
| | | 4 | 1.3 | 24.0 |
| | | | B | |
| STIFF gray SILTY CLAY LOAM TILL | 80.40 | 2 | | |
| | | 4 | 1.1 | 23.0 |
| | | | B | |

MEDIUM light gray SILTY CLAY with fine SAND lens

STIFF light gray LOAM TILL with SAND lens

VERY STIFF gray LOAM TILL with medium SAND lens

HARD gray LOAM with TILL

VERY STIFF gray LOAM with TILL


VERY STIFF gray SILTY CLAY with TILL

gray SHALE

End of Boring

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 6/26/06

ROUTE IL 81 DESCRIPTION P92-115-06 Box culvert on IL 81, 4.1 m. E. of Cambridge, County Road 36 LOGGED BY P. Drezen

SECTION _____ LOCATION Cambridge Twp. - 12 SW, SEC. , TWP. 15N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 037-1059 D E L C O S I M
Station _____ P O S I S I
BORING NO. B-2 H S Qu T
Station 771+59 H S Qu T
Offset 10.00ft Lt
Ground Surface Elev. 99.60 ft (ft) (/6") (tsf) (%)

Surface Water Elev. _____ ft
Stream Bed Elev. 90.50 ft
Groundwater Elev.:
First Encounter 80.6 ft ▼
Upon Completion Dry ft
After _____ Hrs.

| Soil Description | Depth (ft) | Penetration (blows/6") | Blow Count (tsf) | Blow Count (%) |
|----------------------------------|------------|------------------------|------------------|----------------|
| STIFF brown LOAM | 78.10 | 1.3 | 23.0 | |
| | | 3 | 1.2 | 19.0 |
| | | 4 | B | |
| STIFF brown SILTY CLAY LOAM | 97.10 | 4 | | |
| | 95.60 | 4 | 1.8 | 23.0 |
| | | 7 | P | |
| VERY STIFF brown SILTY CLAY LOAM | 93.10 | 1 | | |
| | | 2 | 4.0 | 16.0 |
| | | | P | |
| SOFT gray/brown SILTY CLAY | 90.60 | 1 | | |
| | | 2 | 0.5 | 31.0 |
| | | 3 | B | |
| SOFT black SILTY CLAY | 88.10 | 1 | | |
| | | 2 | 0.5 | 36.0 |
| | | 2 | B | |
| MEDIUM black SILTY CLAY | 85.60 | 3 | | |
| | | 2 | 0.6 | 36.0 |
| | | 5 | B | |
| MEDIUM gray SILTY CLAY | 83.10 | 2 | | |
| | | 2 | 0.7 | 28.0 |
| | | 4 | B | |
| STIFF gray SILTY CLAY | 80.60 | 2 | | |
| | | 3 | 1.5 | 19.0 |
| | | 3 | B | |

STIFF gray SILTY LOAM with SAND lens

VERY STIFF gray LOAM TILL

VERY STIFF gray CLAY TILL

HARD gray SANDY LOAM

VERY STIFF gray CLAY LOAM with TILL

HARD gray SHALE

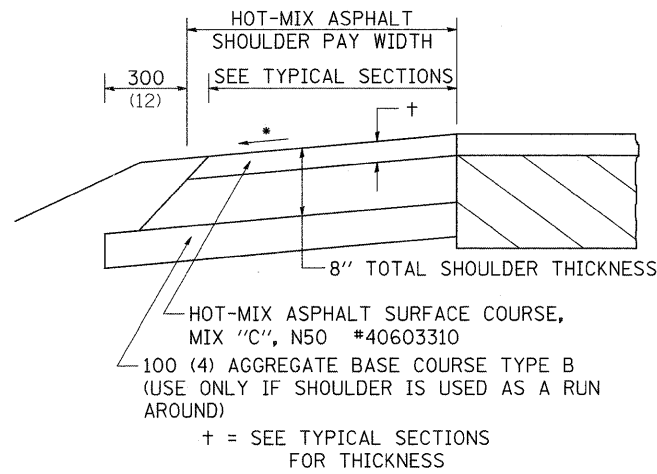
HARD SHALE

End of Boring

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

BBS, from 137 (Rev. 8-99)

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

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

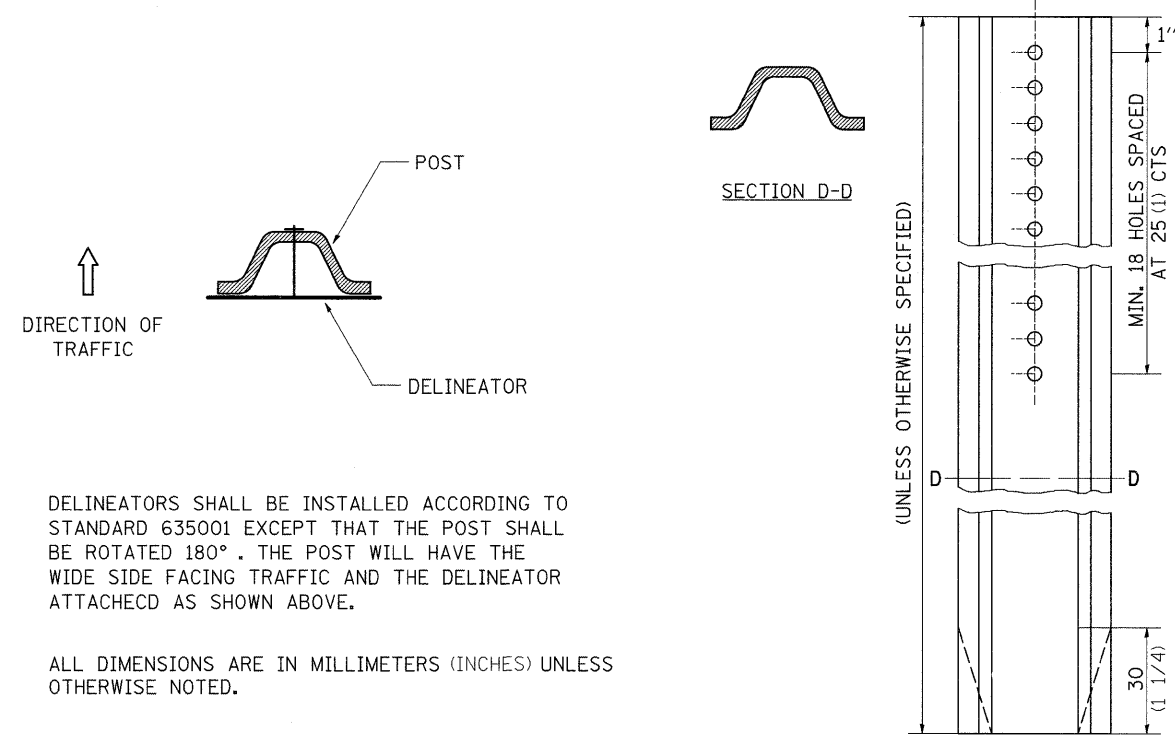
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

DELINEATOR AND POST ORIENTATION



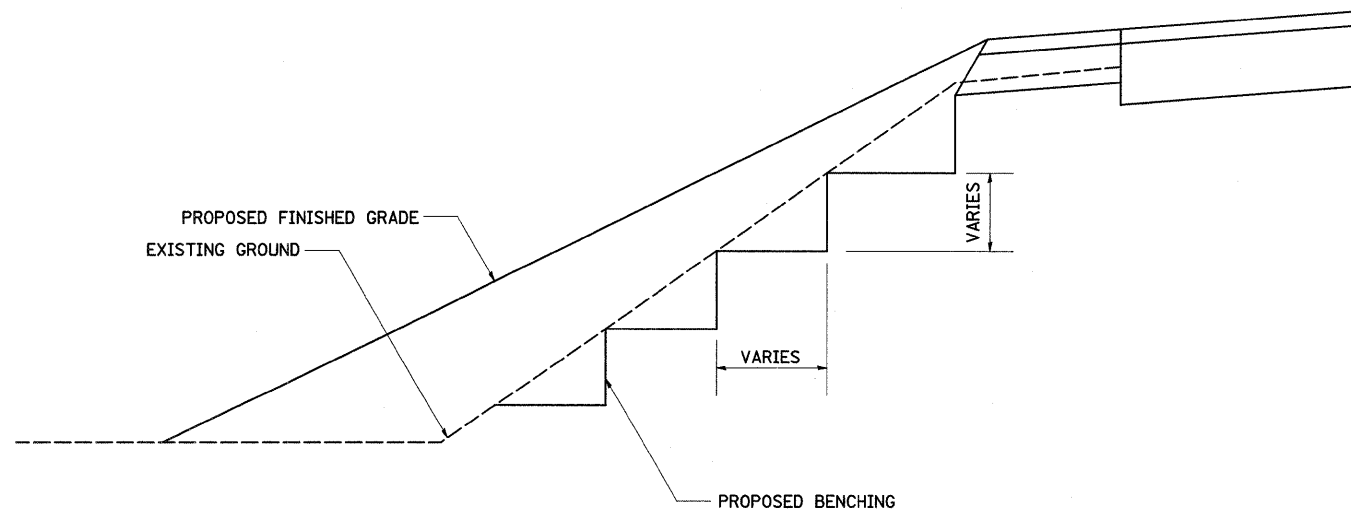
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

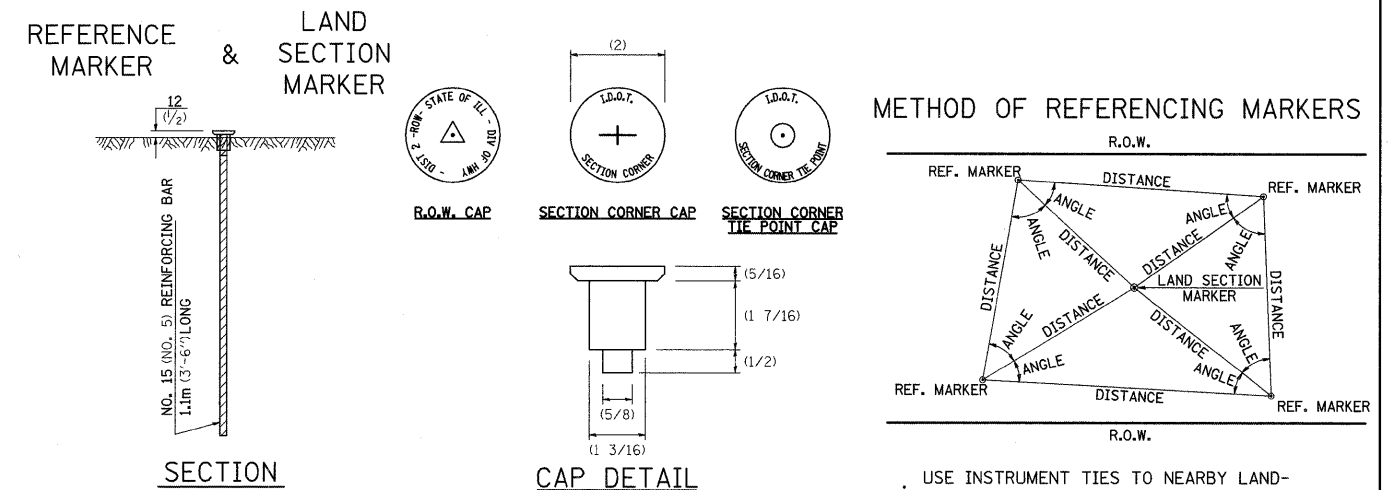
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

LAND SECTION & REFERENCE MARKERS

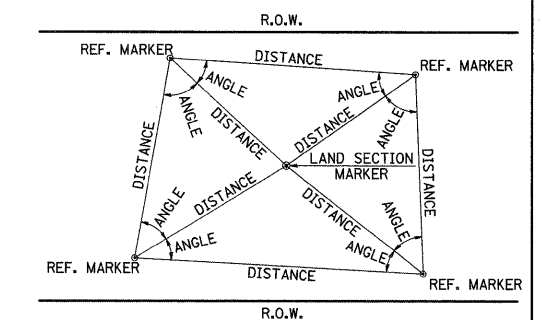


METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 75(3) BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL NOT BE REPLACED.

METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE NEEDED

METHOD OF REFERENCING MARKERS



- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 600(2') OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL.

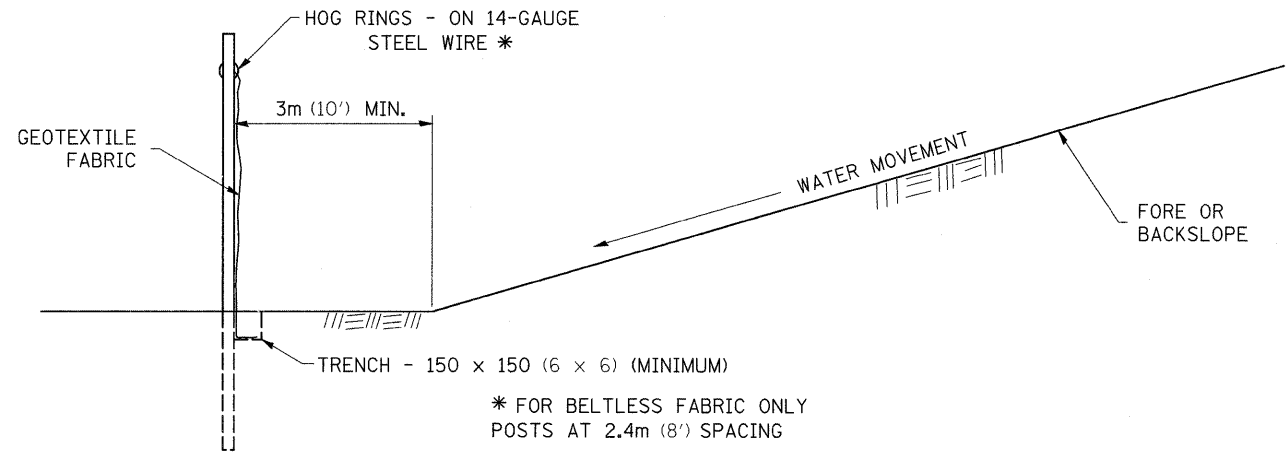
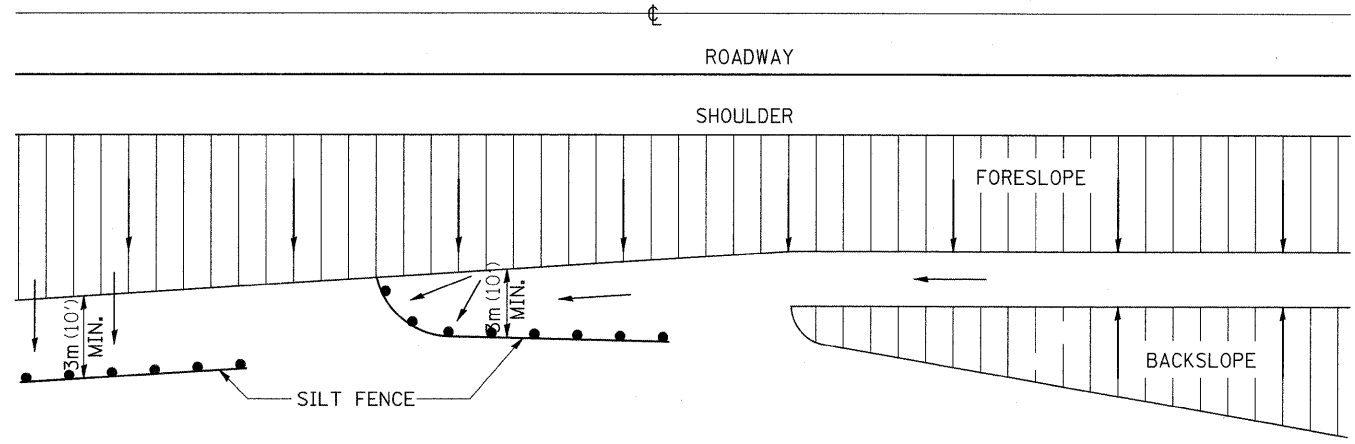
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

| | | | | | | |
|-------------------|---------------------------------------|----------------------|----------------------------------|--------|---|-----------|
| REVISED - 4-22-05 | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| REVISED - | | 611 | 103T-2 | HENRY | 35 | 21 |
| REVISED - | | CONTRACT NO. 64C66 | | | | |
| REVISED - | | SCALE: 600.0012 in / | SHEET NO. OF SHEETS STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | |

PLOT DATE = Tue Dec 02 13:57:23 2008

LAND SECTION & REFERENCE MARKERS 63.4

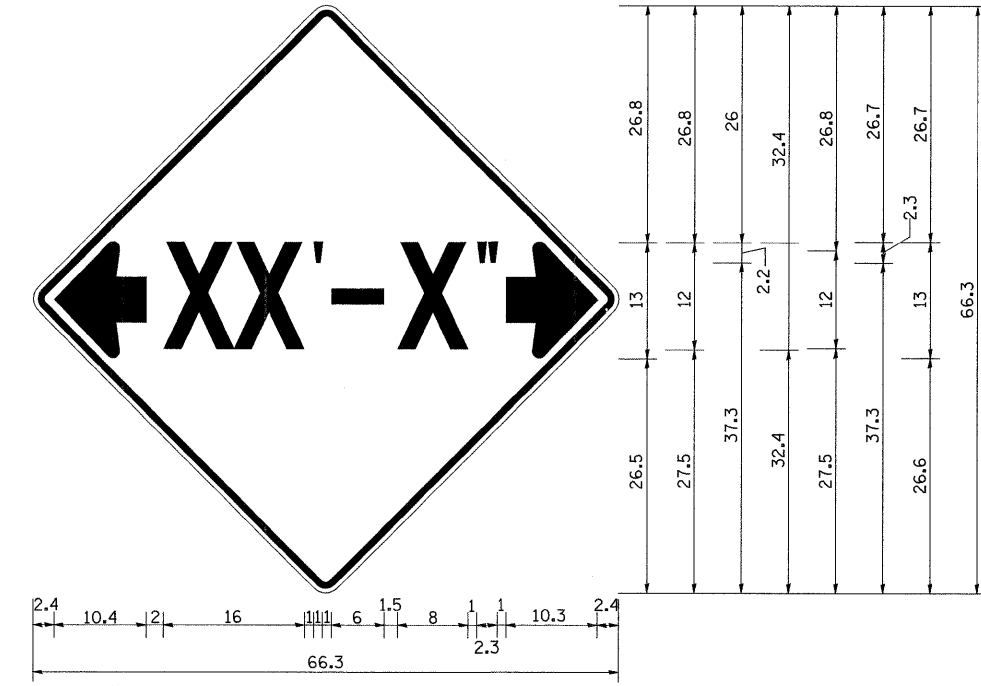
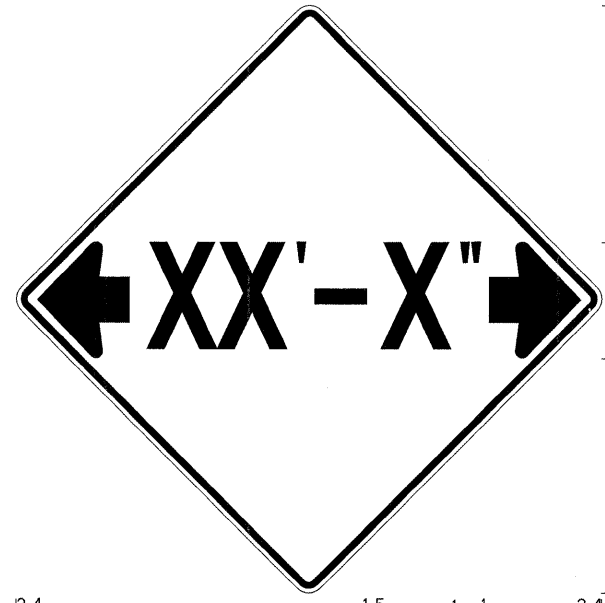
EROSION CONTROL DETAILS FOR SILT FENCE



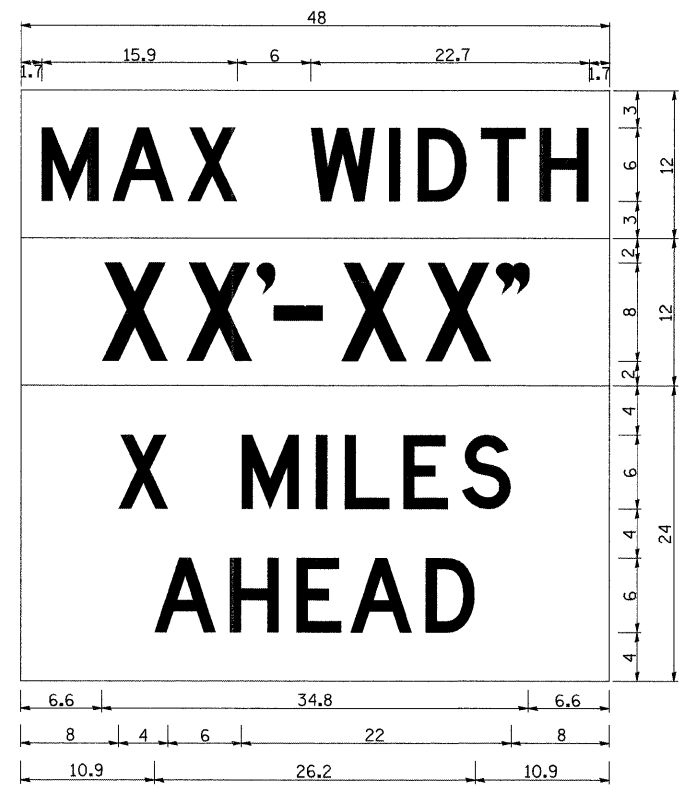
DETAILS OF SILT FENCE

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

 No border, Black on Orange;
 [XX'-XX''] D;

 No border, Black on White;
 [X MILES] D; [AHEAD] D;

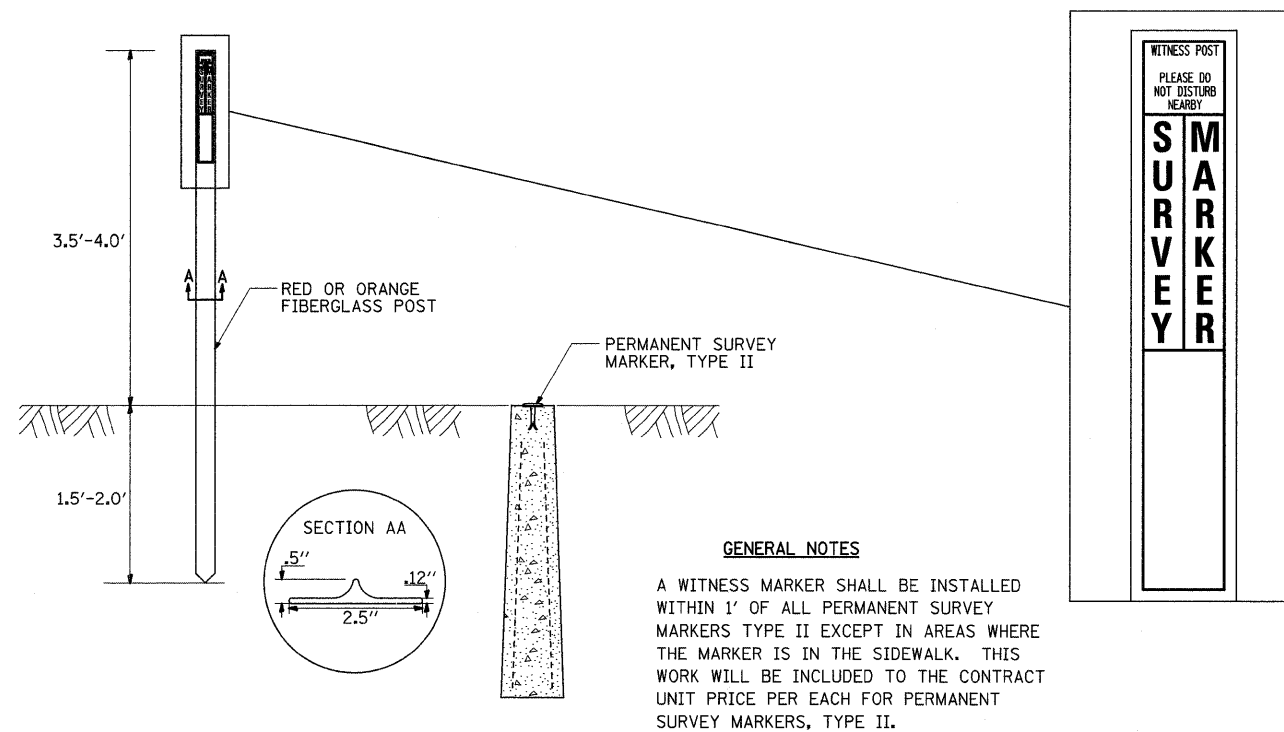
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

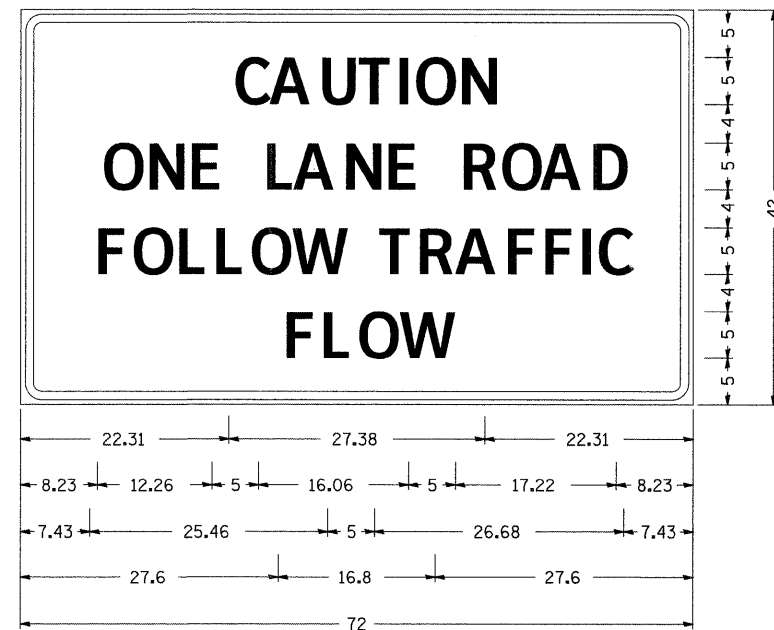
REVISED - 10-22-01

| | | | | | | |
|------------------|--------------------------------|---|---|--------|--------------|-----------|
| REVISED - 1-9-08 | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| REVISED - | | 611 | 103T-2 | HENRY | 35 | 23 |
| REVISED - | | CONTRACT NO. 64C66 | | | | |
| REVISED - | | SCALE: 600:0012 in / SHEET NO. OF SHEETS STA. TO STA. | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | |

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting :
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

PERMANENT SURVEY MARKERS, TYPE II

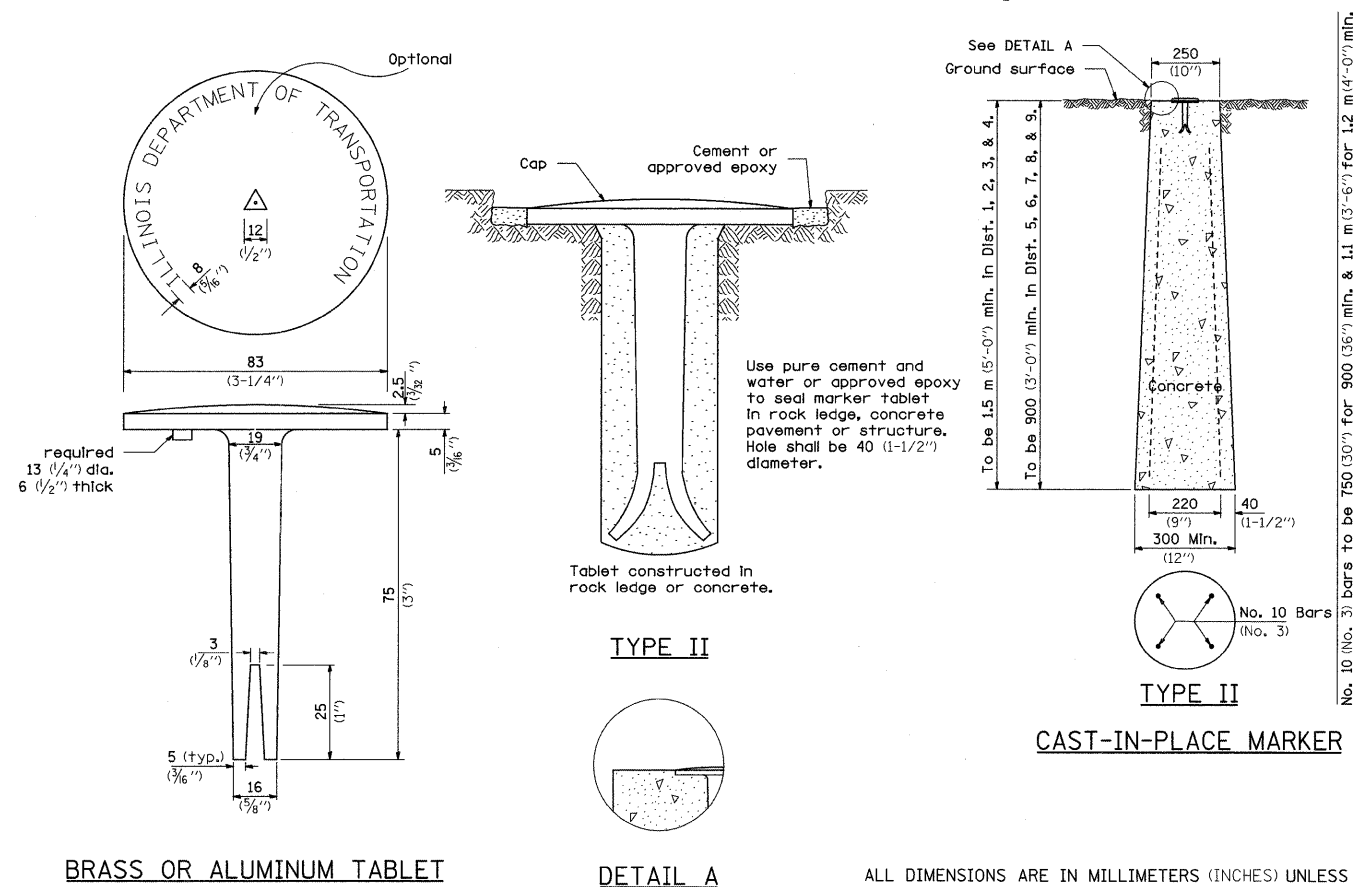


Table Of Widths And Spaces

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

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-21-08

REVISED - 10-28-05

REVISED -

REVISED -

REVISED -

REGION 2 / DISTRICT 2 STANDARD

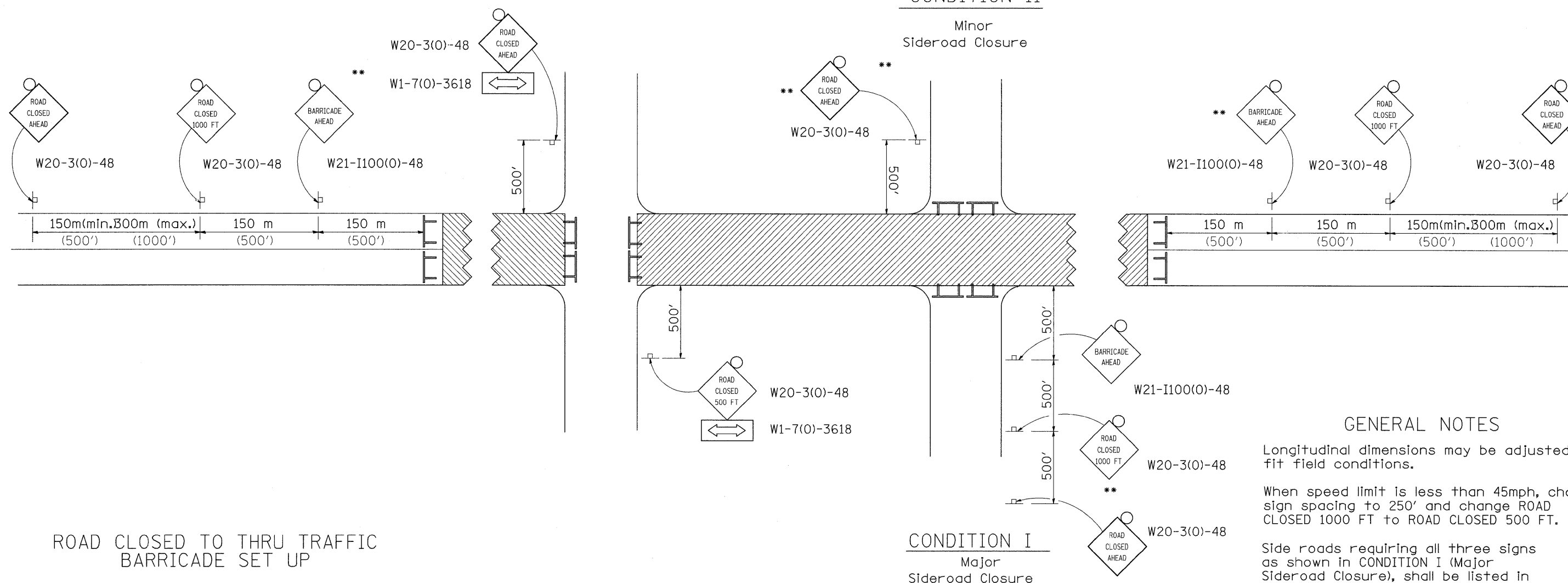
SCALE: 600:0012 1" / SHEET NO. OF SHEETS STA. TO STA.

| | | | | |
|---------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 24 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 64C66 | |

TRAFFIC CONTROL FOR ROAD CLOSURE

CONDITION II

Minor Sideroad Closure



GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

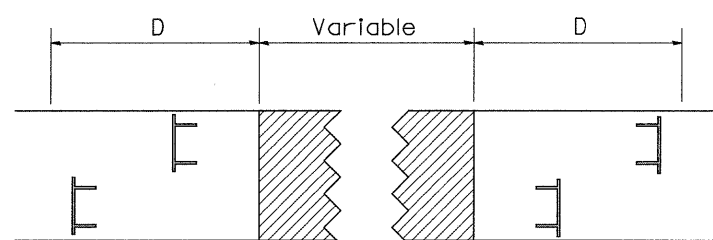
When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

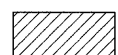


All dimensions are in millimeters (inches) unless otherwise shown.

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

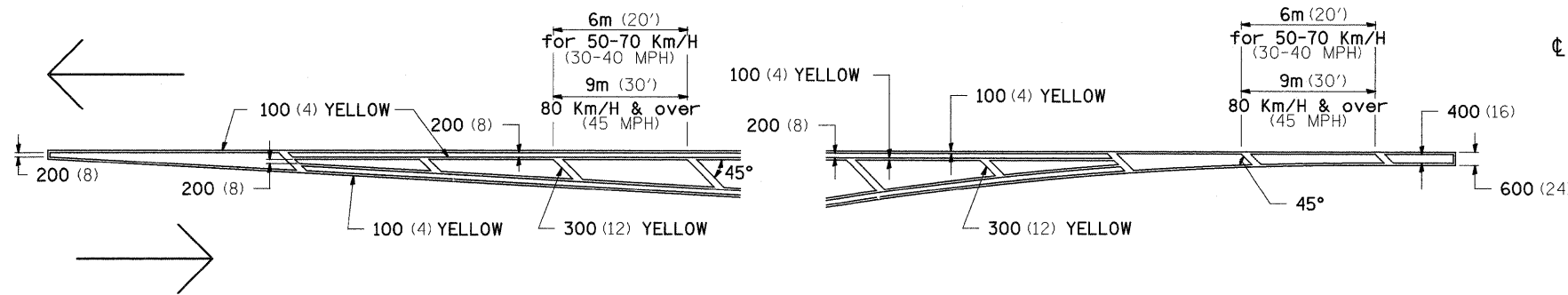
-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

TYPICAL APPLICATION FOR ROAD CLOSURE

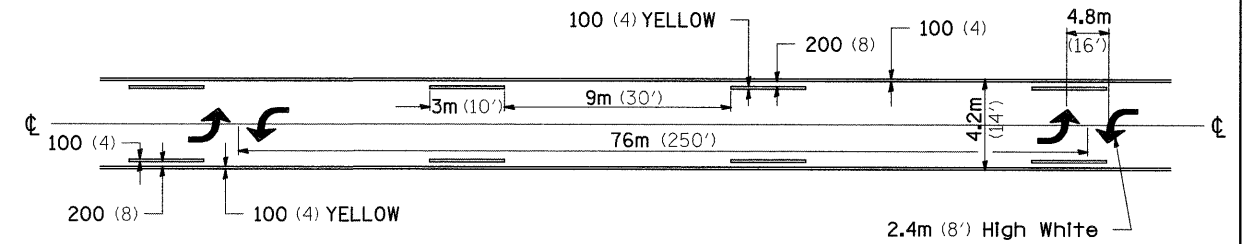
| | | | | | | | | | | |
|--|----------------------|------------|---|---|---------------------------------------|-------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - 1-11-08 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw_work\FWIDOT\HENSONKE\dms34455\d11506apl.dgn | DRAWN - | REVISED - | 611 | | | 103T-2 | HENRY | 35 | 25 | |
| PLOT SCALE = 600.0012 in / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:57:27 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

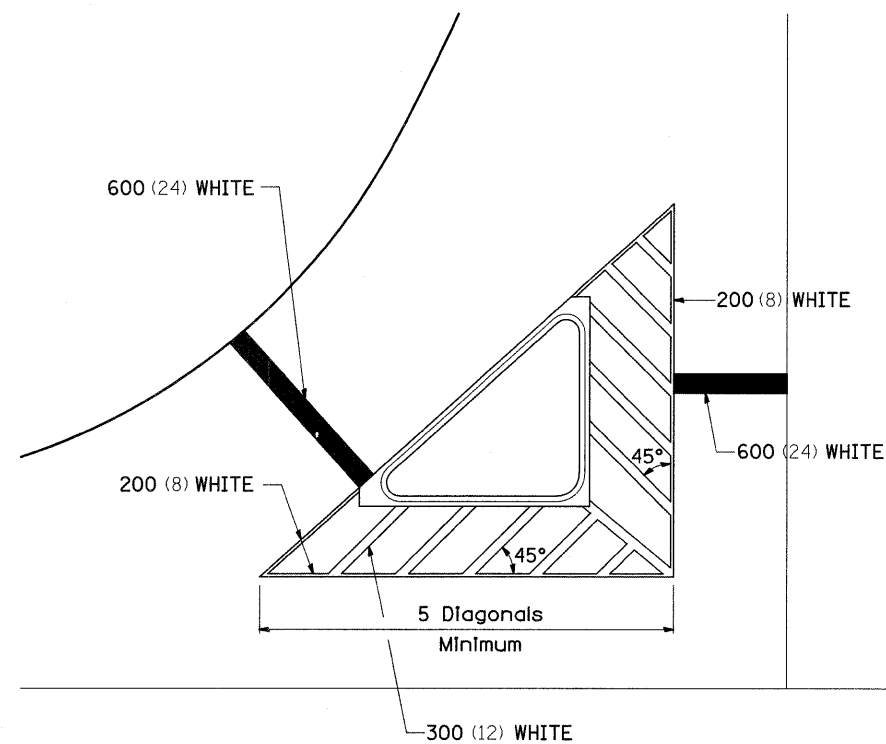


MEDIAN PAVEMENT MARKING

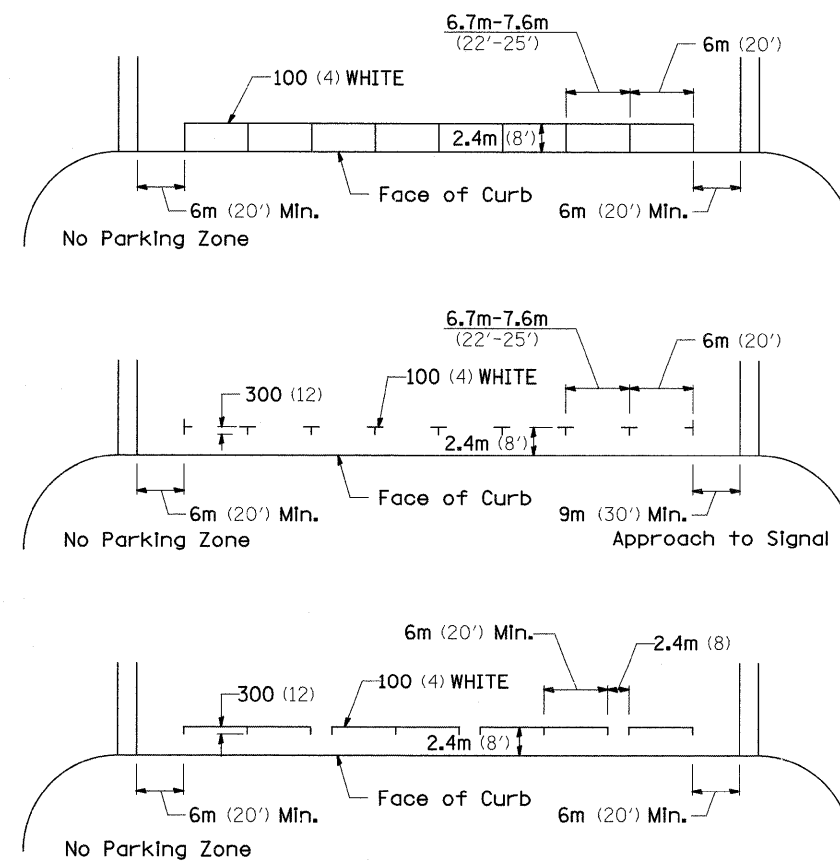


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

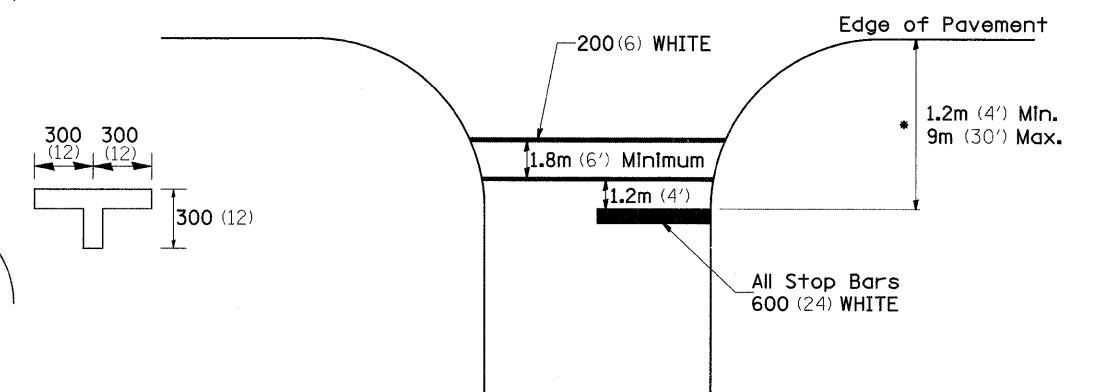


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

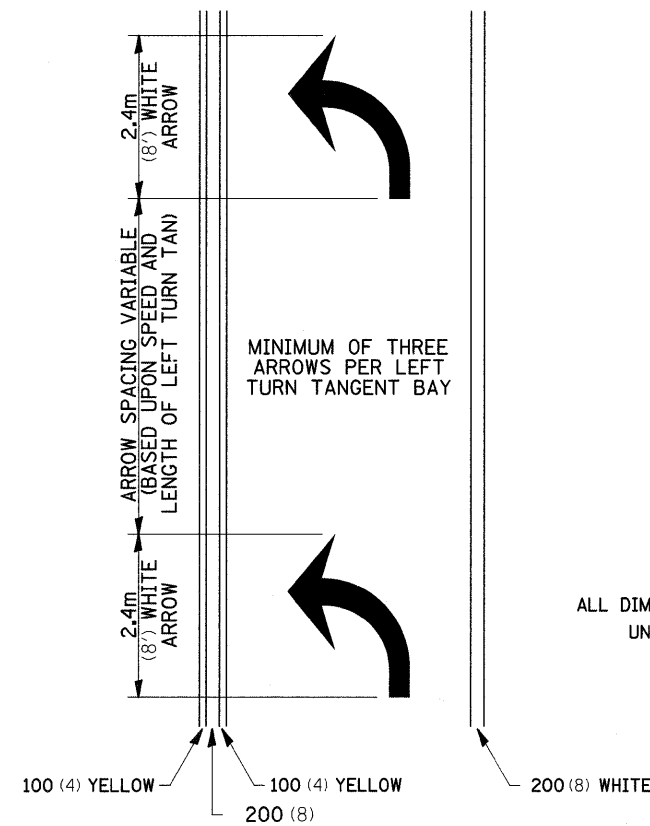


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

| | | | | | | | | | | |
|---|----------------------|------------|---|---|---------------------------------------|-------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hansonke | DESIGNED - | REVISED - 10-21-08 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| ct:\pw_work\FWIDOT\HENSONKE\dms34455\d1506spl.dgn | DRAWN - | REVISED - | 611 | | | 103T-2 | HENRY | 35 | 26 | |
| PLOT SCALE = 600.0012 in / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:57:26 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

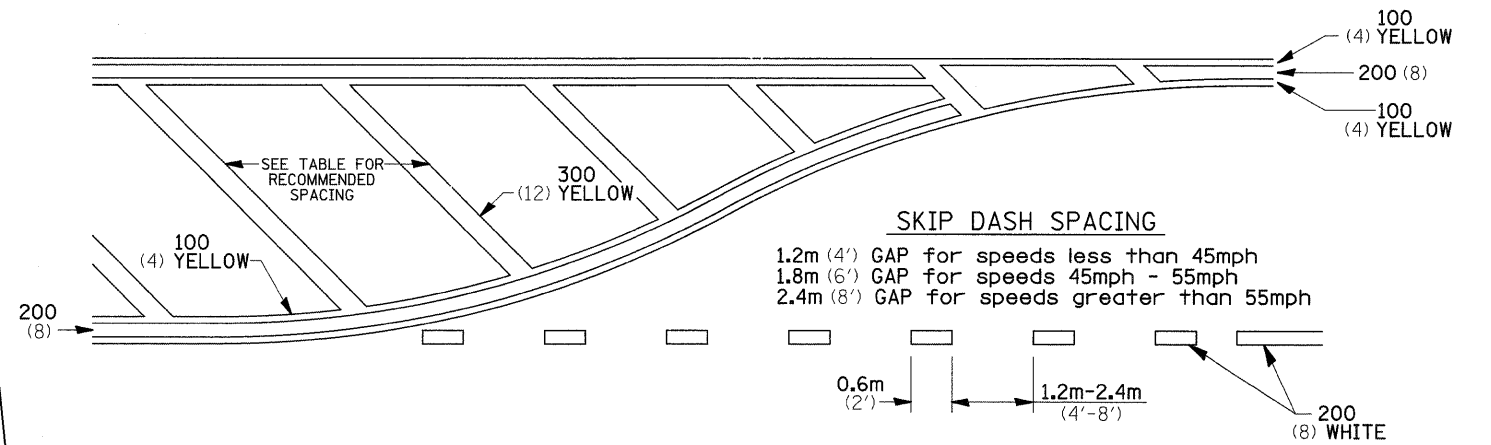
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

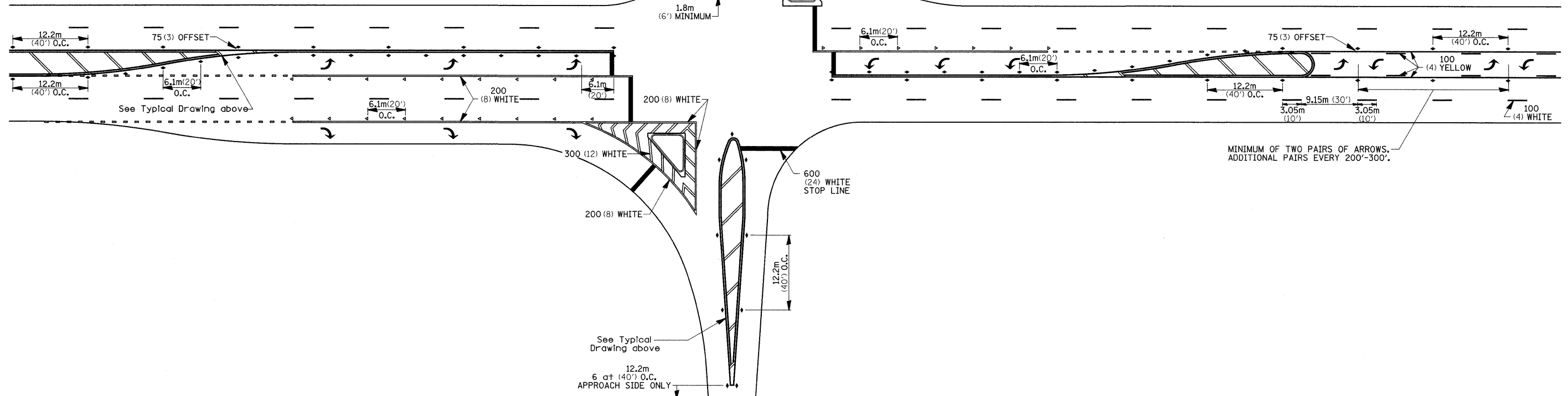
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

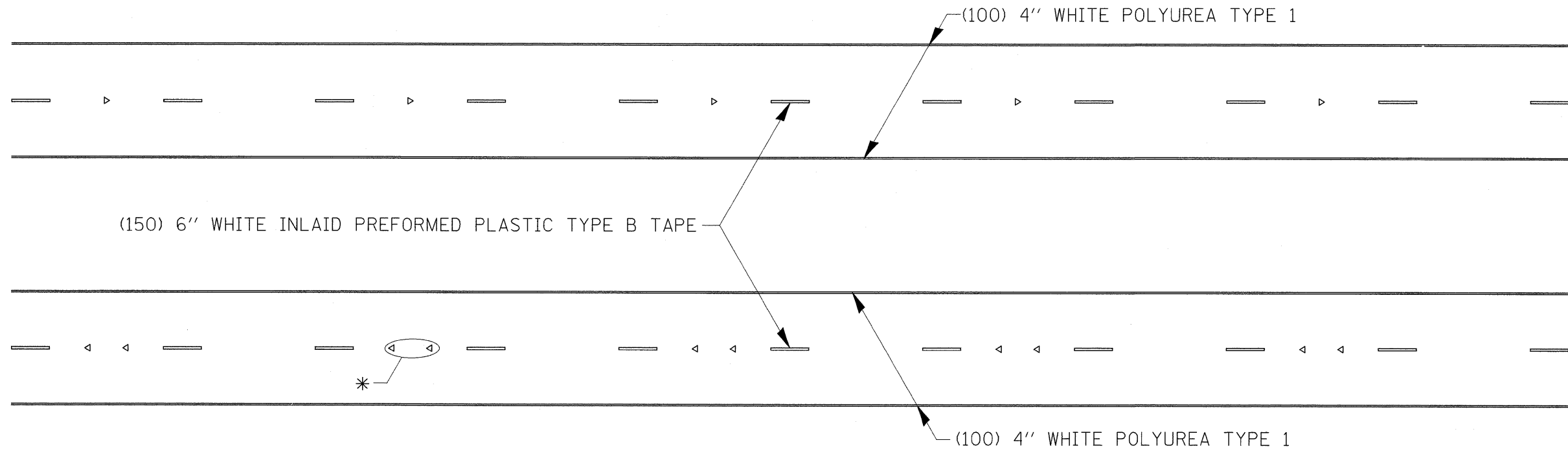
| Speed Limit Range | Continuous Median Area | Intersection Channelization | Objects (Islands) |
|--------------------------|------------------------|-----------------------------|-------------------|
| less than 50km/H (30MPH) | 15.3m (50') | 4.53m (15') | 3.05m (10') |
| 50-60km/H (30-40MPH) | 22.9m (75') | 6.1m (20') | 4.53m (15') |
| 70km/H (45MPH) & over | 22.9m (75') | 9.05m (30') | 6.1m (20') |

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



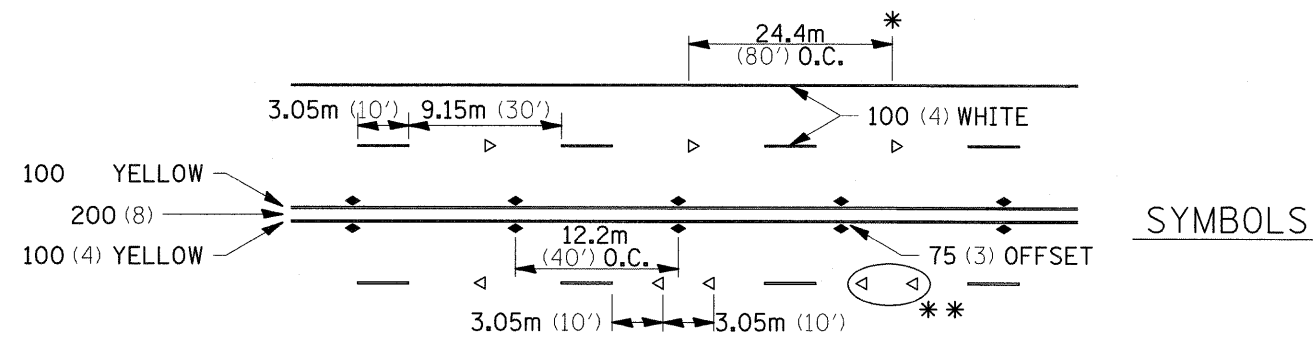
| | | | | | | | | | | |
|--|----------------------|------------|---|---|---------------------------------------|---------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hansonke | DESIGNED - | REVISED - 10-21-08 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTF. = | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pw_work\FWIDOT\HENSONKE\dms34455\d1506spl.dgn | DRAWN - | REVISED - | 611 | | | 103T-2 | HENRY | 35 | 27 | |
| PLOT SCALE = 600.0012 in / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:57:26 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 25,000.

MULTI-LANE / DIVIDED

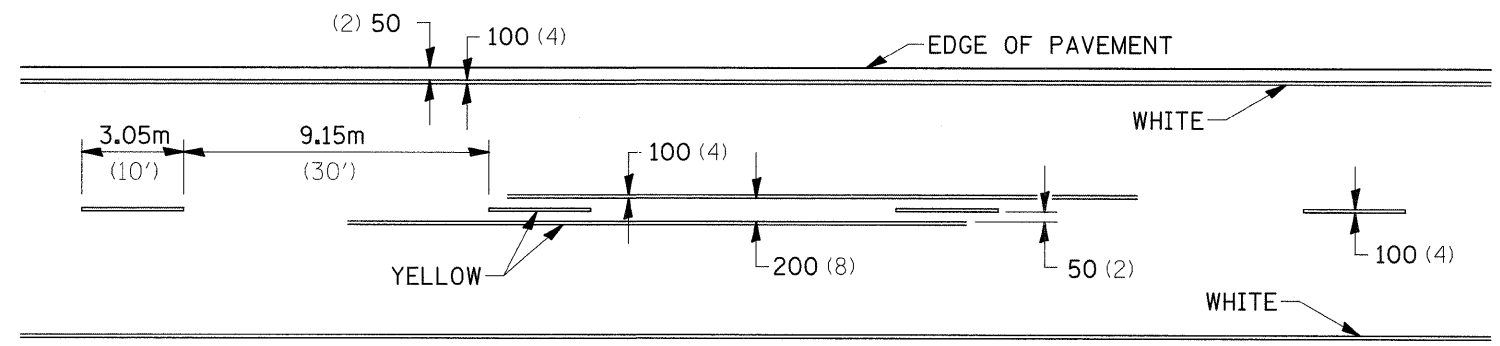


* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT \geq 25,000

MULTI-LANE / UNDIVIDED

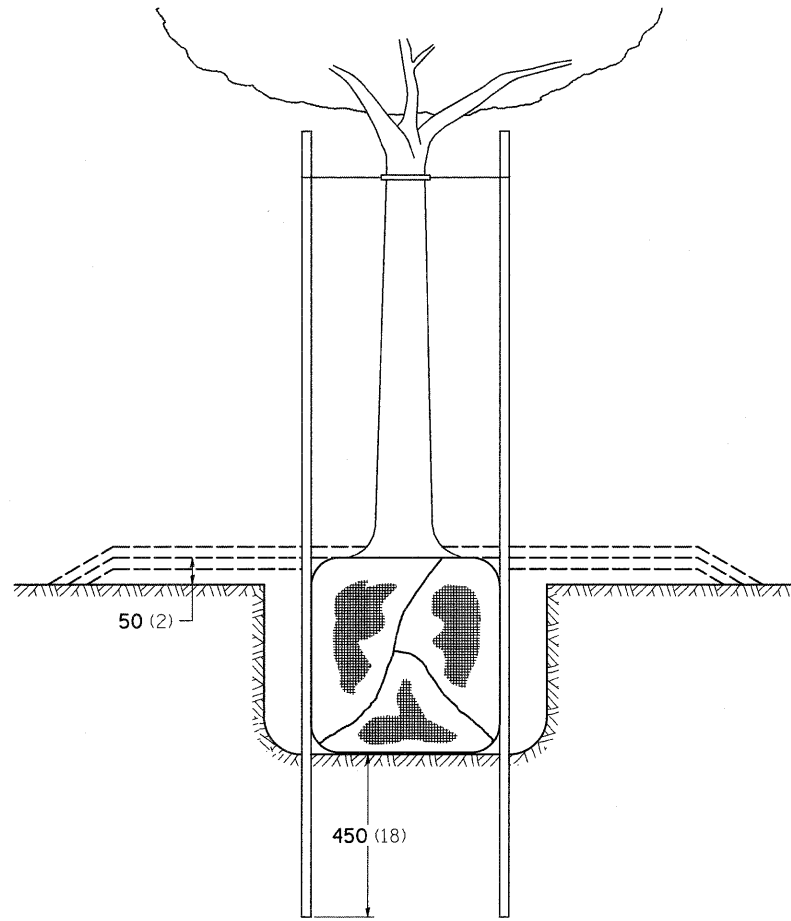
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



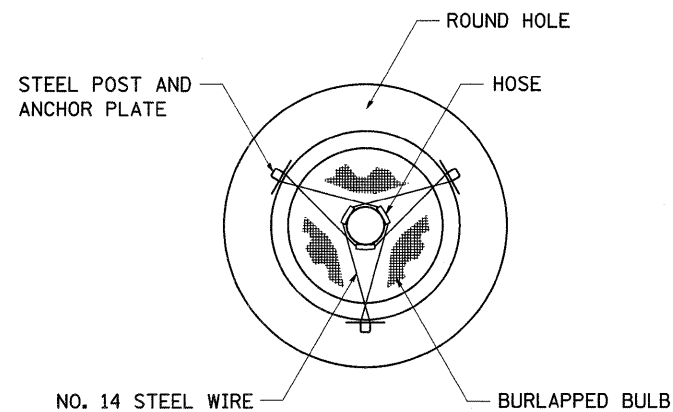
SYMBOLS

| | | | | | | | | | | |
|---|----------------------|------------|---|---|---------------------------------------|-------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - 10-21-08 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwork\PW\DOT\HENSONKE\dms34455\d11506apl.dgn | DRAWN - | REVISED - | 611 | | | 103T-2 | HENRY | 35 | 28 | |
| PLOT SCALE = 600.0012 in / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | |
| PLOT DATE = Tue Dec 02 13:57:26 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | |

DETAILS OF PLANTING AND BRACING TREES

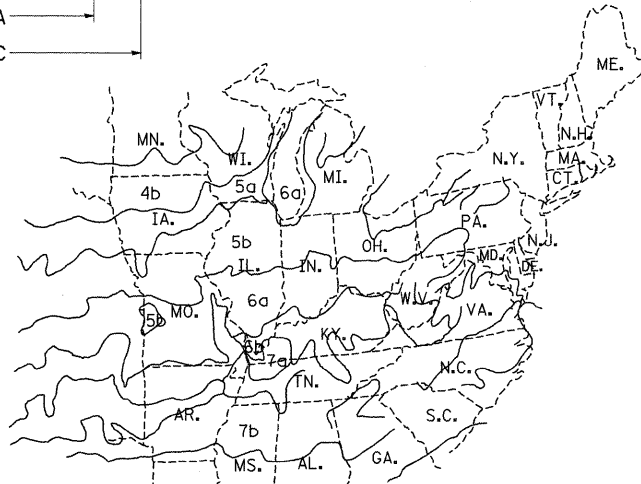
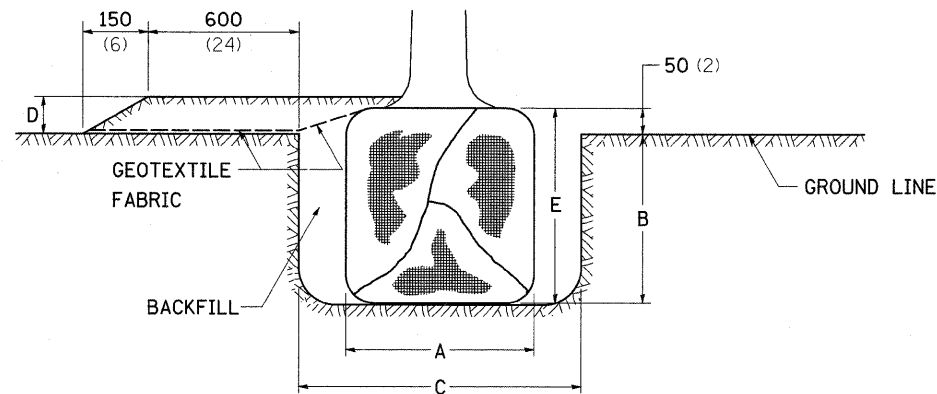


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



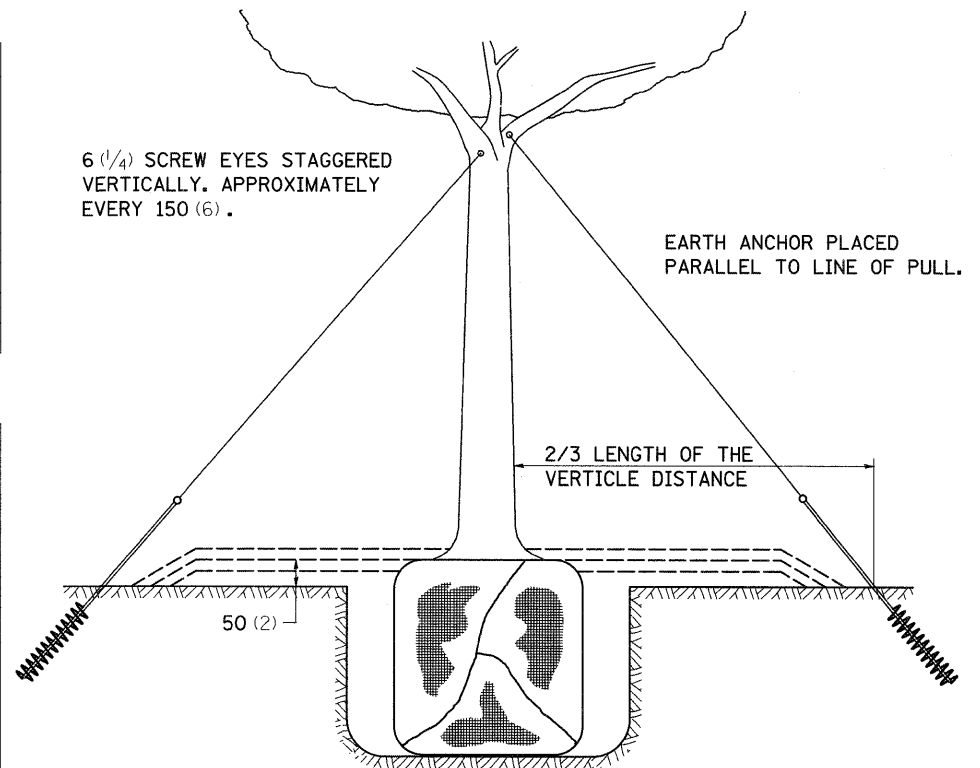
| SMALL | A | B | C | D | E | F |
|-----------------------|-------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---|
| TREE SIZE | DIAMETER OF BALL OR ROOT SYS. | DEPTH OF HOLE EXCAVATION | WIDTH OF HOLE EXCAVATION | THICKNESS OF MULCH COVER | DEPTH OF BALL OR ROOT SYS. | VOLUME OF MULCH COVER m ³ (CU. YDS.) |
| 1.5-1.8m (5'-6') | 400 (16) | 250 (10) | 750 (30) | 100 (4) | 300 (12) | 0.41 (0.54) |
| 1.5-1.8m (5'-6') BB | 400 (16) | 250 (10) | 750 (30) | 100 (4) | 300 (12) | 0.41 (0.54) |
| 1.8-2.0m (6'-7') BB | 450 (18) | 300 (12) | 750 (30) | 100 (4) | 350 (14) | 0.41 (0.54) |
| 2.0-2.4m (7'-8') BB | 500 (20) | 275 (11) | 750 (30) | 100 (4) | 325 (13) | 0.41 (0.54) |
| 2.4-3.0m (8'-10') BB | 600 (24) | 350 (14) | 900 (36) | 100 (4) | 400 (16) | 0.47 (0.61) |
| 3.0-3.6m (10'-12') BB | 650 (26) | 375 (15) | 900 (36) | 100 (4) | 425 (17) | 0.47 (0.61) |

| LARGE | A | B | C | D | E | F |
|----------------------|-------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|---|
| TREE SIZE | DIAMETER OF BALL OR ROOT SYS. | DEPTH OF HOLE EXCAVATION | WIDTH OF HOLE EXCAVATION | THICKNESS OF MULCH COVER | DEPTH OF BALL OR ROOT SYS. | VOLUME OF MULCH COVER m ³ (CU. YDS.) |
| 0-50 (0-2) | 500 (20) | 275 (11) | 900 (36) | 100 (4) | 325 (13) | 0.47 (0.61) |
| 50-65 (2-2 1/2) BB | 600 (24) | 350 (14) | 1200 (48) | 100 (4) | 400 (16) | 0.60 (0.78) |
| 65-75 (2 1/2-3) BB | 700 (28) | 425 (17) | 1200 (48) | 100 (4) | 475 (19) | 0.60 (0.78) |
| 75-90 (3-3 1/2) BB | 800 (32) | 425 (17) | 1500 (60) | 100 (4) | 475 (19) | 0.73 (0.96) |
| 90-100 (3 1/2-4) BB | 900 (36) | 500 (20) | 1500 (60) | 100 (4) | 550 (22) | 0.73 (0.96) |
| 100-115 (4-4 1/2) BB | 1000 (40) | 550 (22) | 1800 (72) | 100 (4) | 600 (24) | 0.89 (1.16) |
| 115-125 (4 1/2-5) BB | 1100 (44) | 600 (24) | 1800 (72) | 100 (4) | 650 (26) | 0.89 (1.16) |
| 125-140 (5-5 1/2) BB | 1200 (48) | 675 (27) | 2100 (84) | 100 (4) | 725 (29) | 1.06 (1.38) |

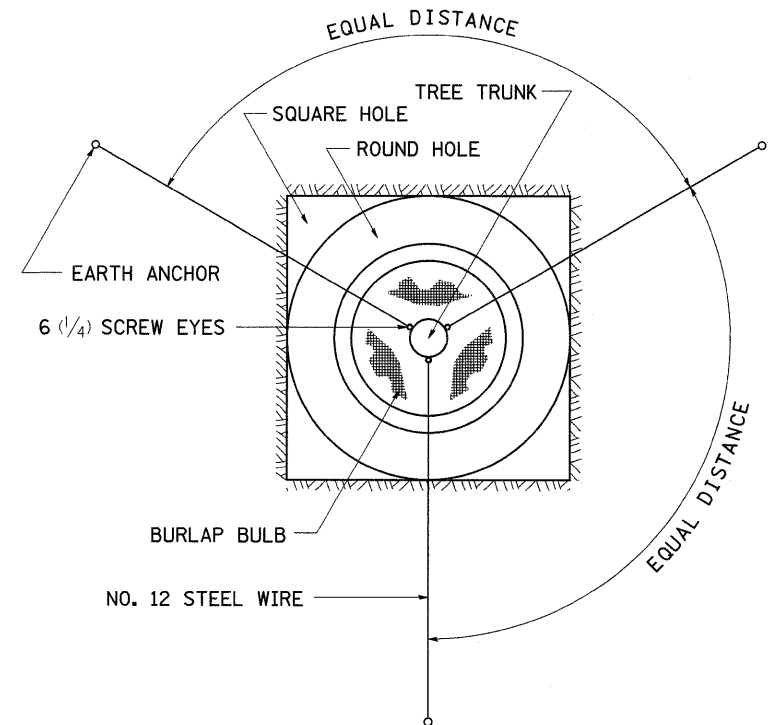


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

| | | | |
|---|----------------------|------------|--------------------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - 10-15-04 |
| ct:\pwork\FWIDOT\HENSONKE\dms34455\d1106spl.dgn | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | | DATE - | REVISED - |
| | | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

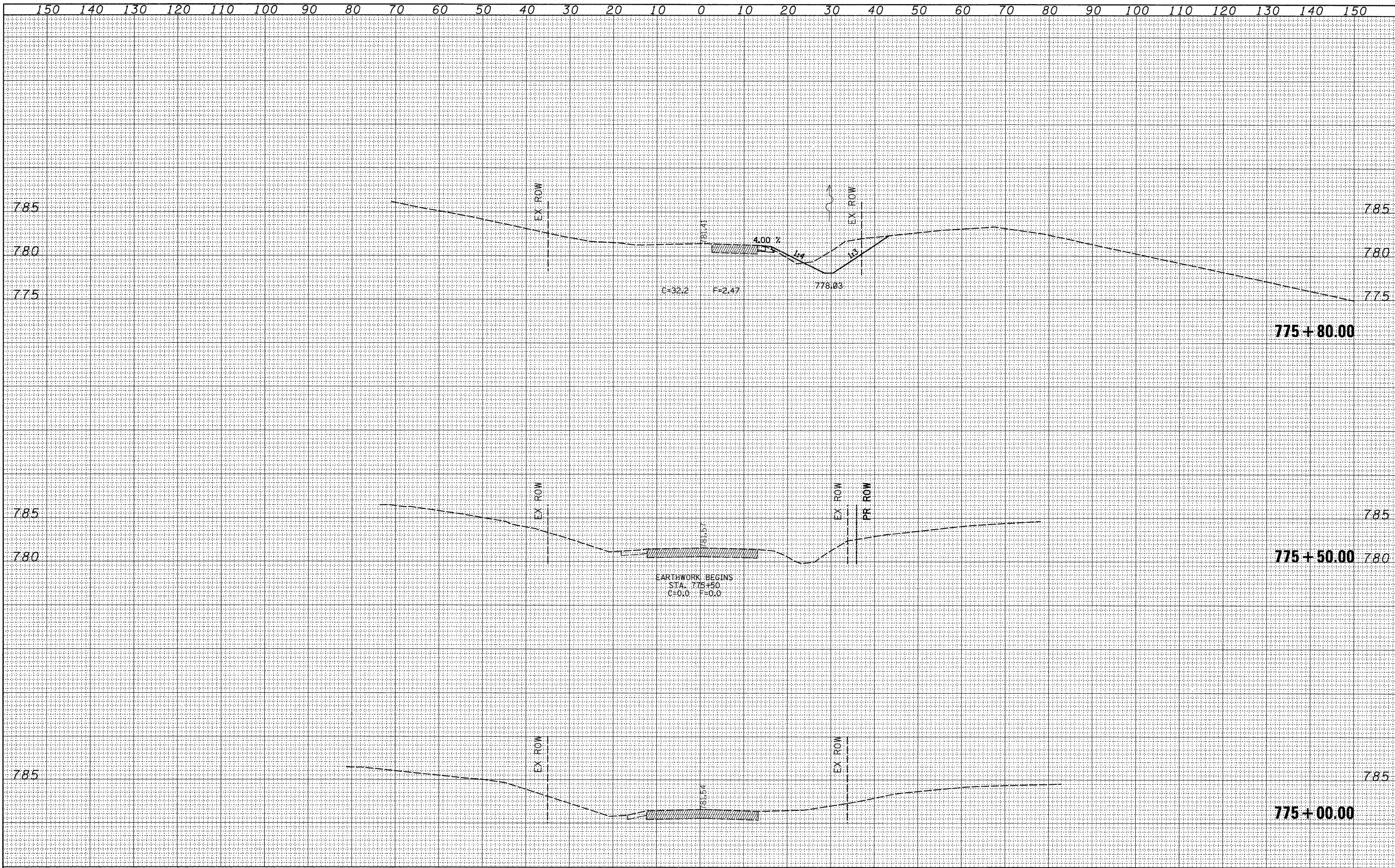
REGION 2 / DISTRICT 2 STANDARD

| | | | | |
|---|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 29 |
| CONTRACT NO. 64C66 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

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

| | |
|-----------|------|
| BY | DATE |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| NO. | |

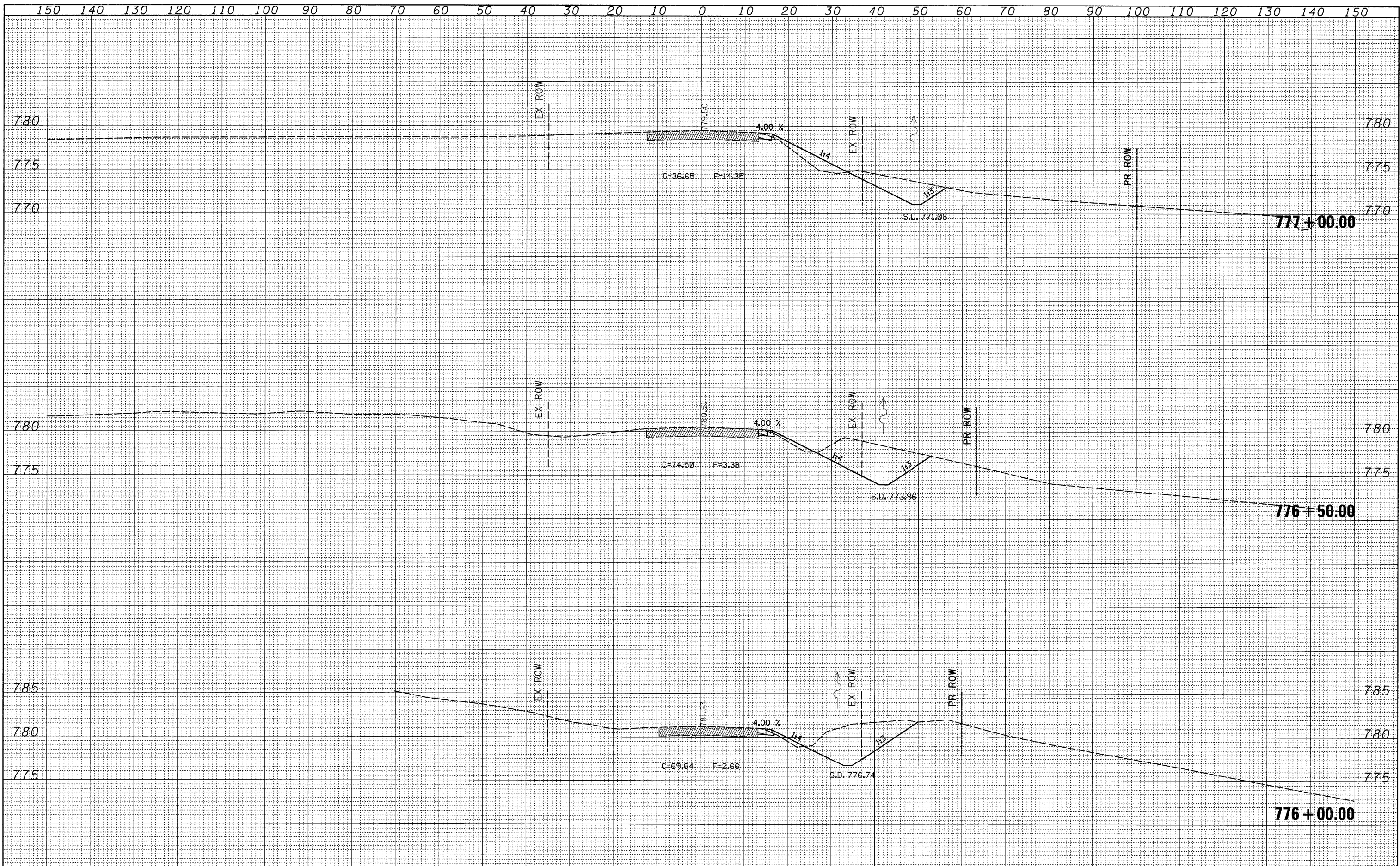
| | |
|-----------|------|
| BY | DATE |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| NO. | |



| | | | | | | | | | | | | |
|---|----------------------|------------|---|---|--|-----------------------|--|----------------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | CROSS SECTIONS | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| et:\pw_work\PWIDOT\HENSONKE\dms34457\dl1506.xml.dgn | DRAWN - | REVISED - | 611 | | | | | 103T-2 | HENRY | 35 | 30 | |
| PLOT SCALE = 10.0000 / IN. | CHECKED - | REVISED - | CONTRACT NO. 64C66 | | | | | | | | | |
| PLOT DATE = Tue Dec 02 14:00:02 2008 | DATE - | REVISED - | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | | | | | |
| SCALE: | | | | | | SHEET NO. OF SHEETS | | STA. 775+00.00 TO STA. 775+80.00 | | | | |

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

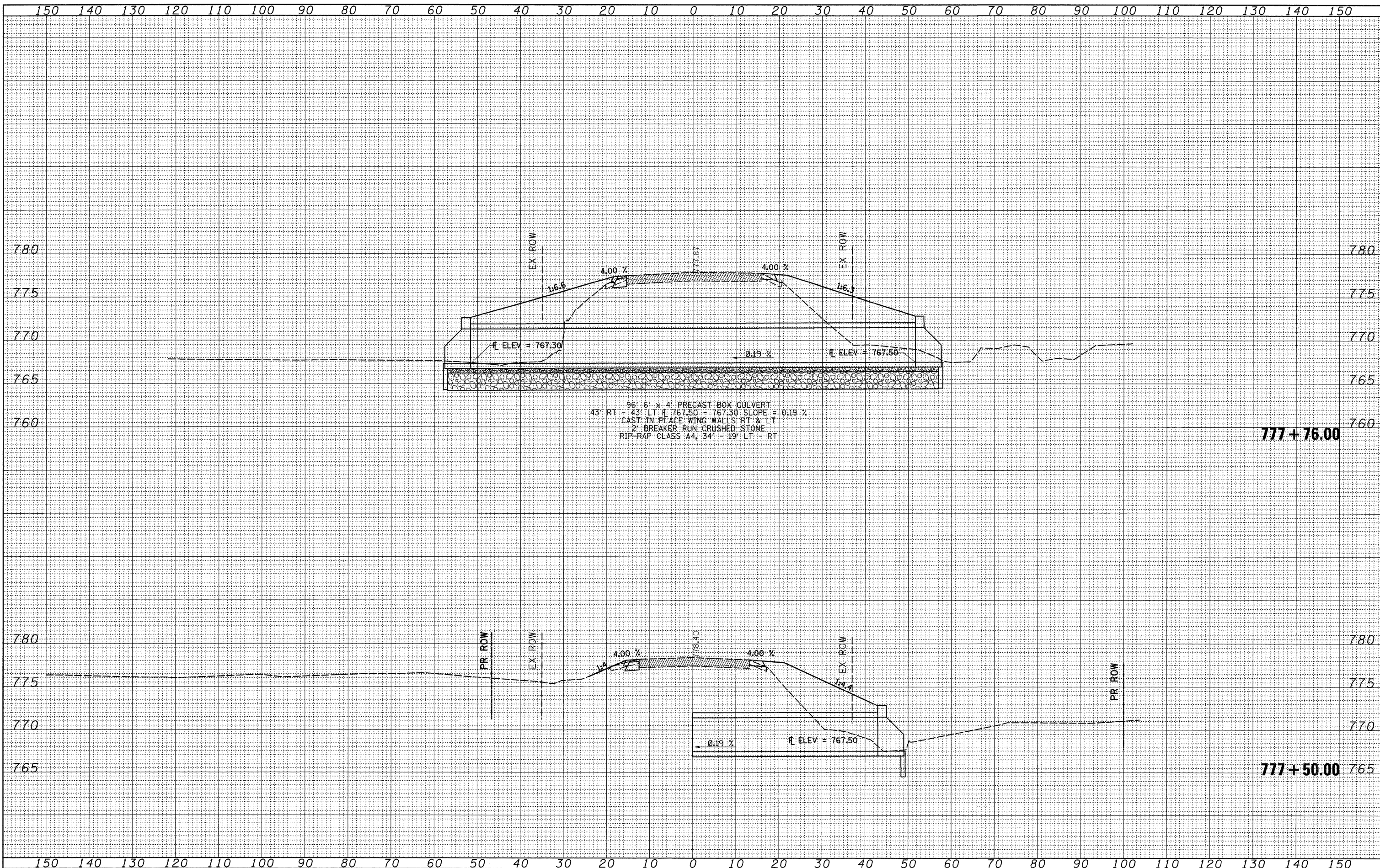
| | |
|-----------------|---------------|
| BY | DATE |
| ORIGINAL SURVEY | SURVEYED |
| NOTE BOOK | PLOTTED |
| NO. | DATE |
| | AREAS CHECKED |



| | | | | | | | | | | | |
|---|----------------------|--------------------------------------|-----------|---|---------------------------|-----------|----------------|-------------------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CROSS SECTIONS | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| or\pw_work\PWIDOT\HENSONKE\dms34457\dl11506.xml.dgn | | DRAWN - | REVISED - | | 611 | 103T-2 | HENRY | 35 | 31 | | |
| | | CHECKED - | REVISED - | | CONTRACT NO. 64C66 | | | | | | |
| | | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | |
| PLOT SCALE = 10.0000' / IN. | | PLOT DATE = Tue Dec 02 14:00:03 2008 | | SCALE: | SHEET NO. | OF SHEETS | STA. 776+00.00 | TO STA. 777+00.00 | | | |

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

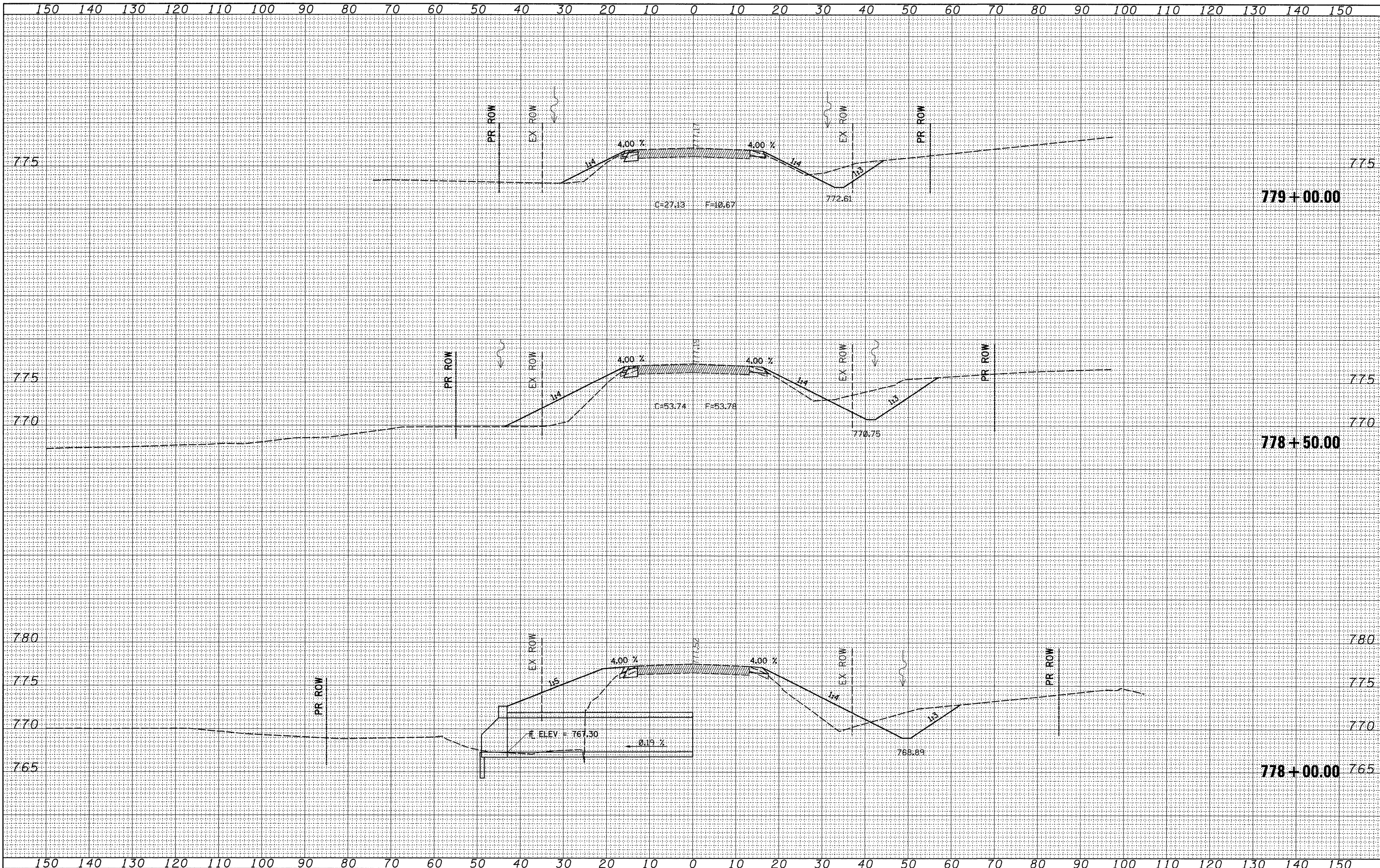
| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |
| NO. | |



96' 6" x 4' PRECAST BOX CULVERT
 43' RT - 43' LT H. 767.50 - 767.30 SLOPE = 0.19 %
 CAST IN PLACE WING WALLS RT & LT
 2' BREAKER RUN CRUSHED STONE
 RIP-RAP CLASS A4, 34' - 19' LT - RT

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |

| | |
|---------------|--|
| DATE | |
| BY | |
| SURVEYED | |
| PLOTTED | |
| NOTE BOOK | |
| AREAS CHECKED | |



FILE NAME =
 es:\pw_work\PWIDOT\HENSONKE\dms34457\dl1506.xml.dgn

USER NAME = hansonke
 DESIGNED -
 DRAWN -
 CHECKED -
 PLOT DATE = Tue Dec 02 14:00:04 2008

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

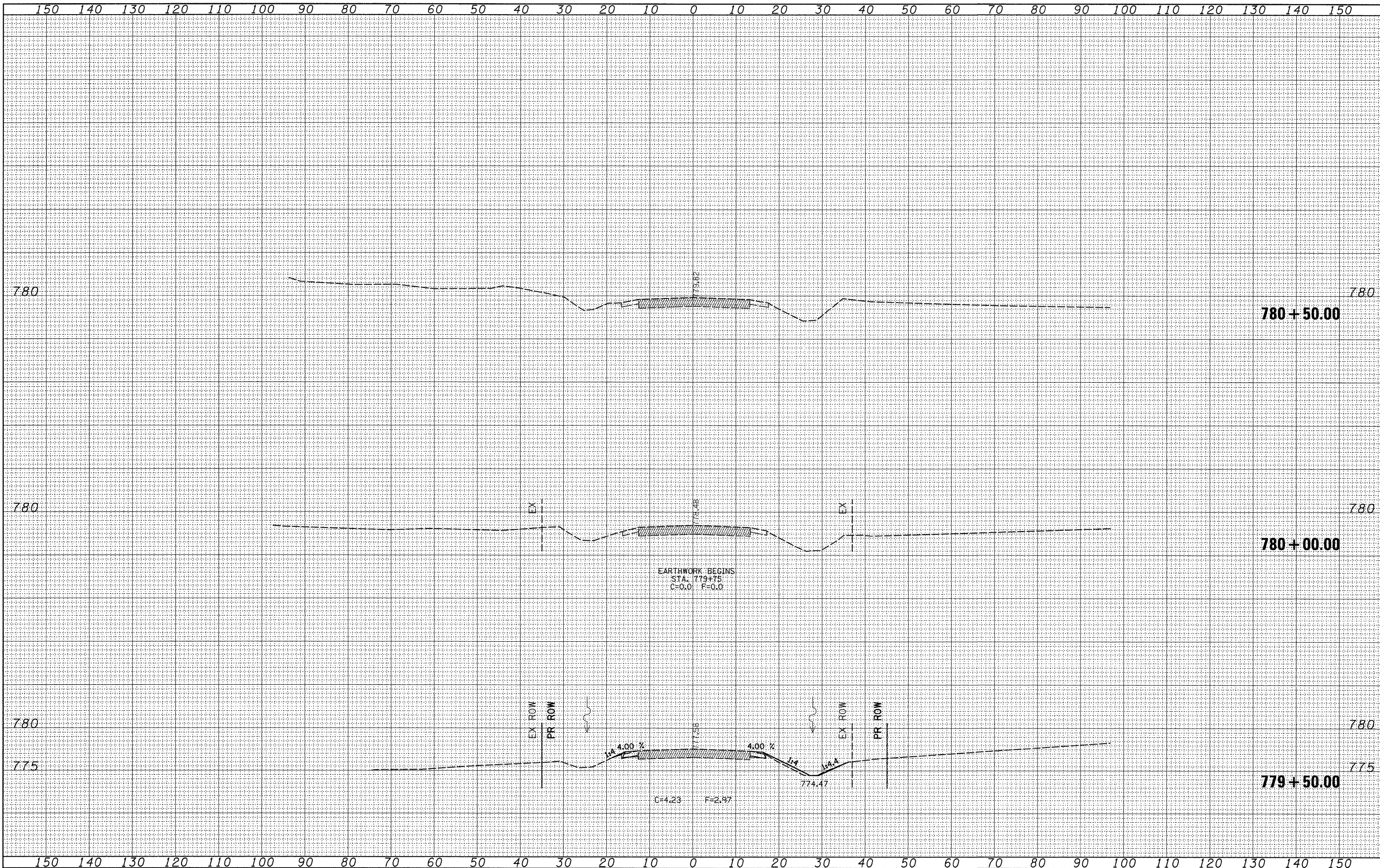
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 778+00.00 TO STA. 779+00.00

| | | | | |
|---------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 611 | 103T-2 | HENRY | 35 | 33 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NO. 64C66 | | | | |

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

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



FILE NAME =
 c:\pw_work\PWIDOT\HENSONKE\dms34457\dl1506.xml.dgn

USER NAME = hensonke
 DESIGNED -
 DRAWN -
 CHECKED -
 PLOT DATE = Tue Dec 02 14:00:04 2008

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

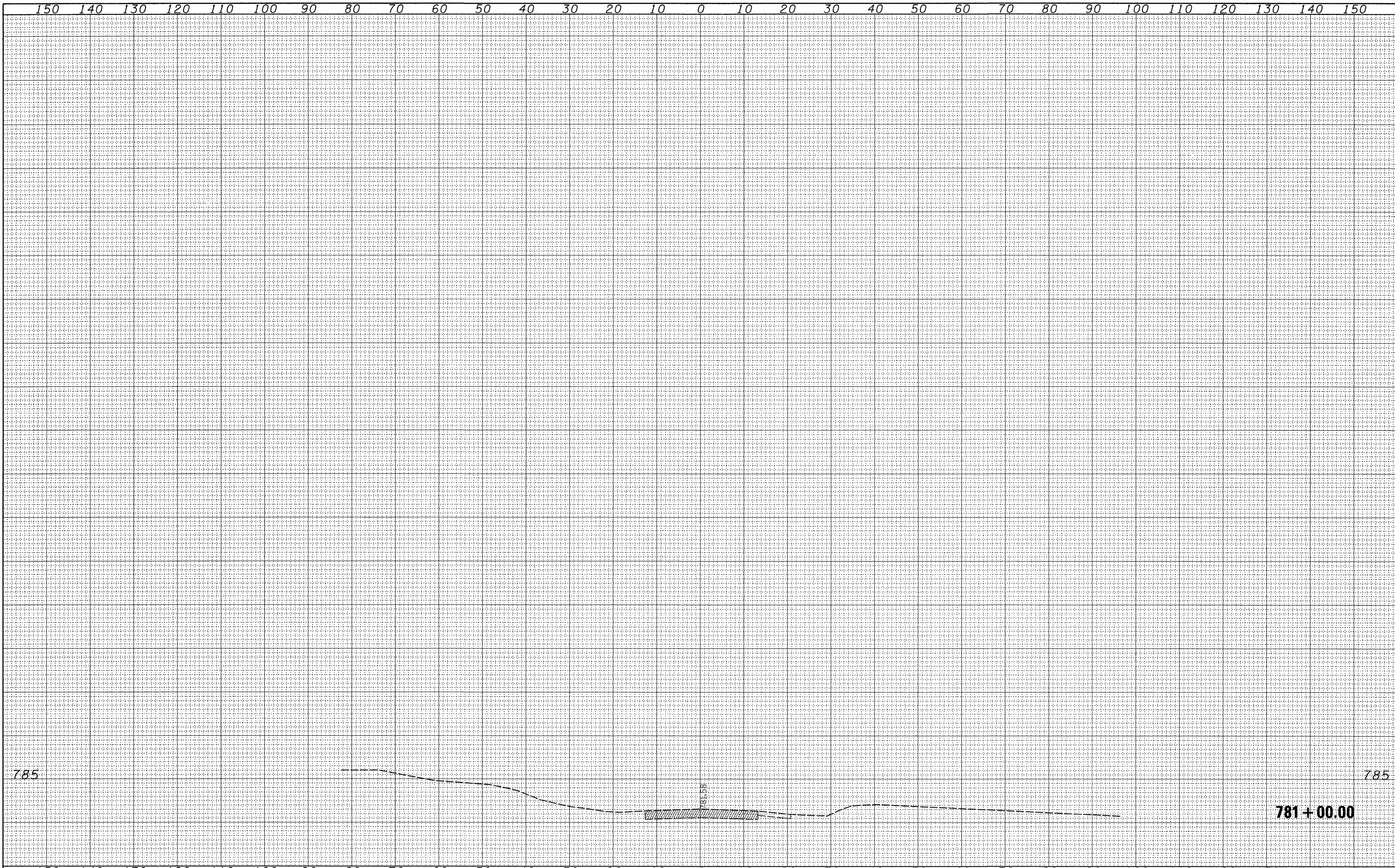
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 779+50.00 TO STA. 780+50.00

| | | | | |
|---|-------------------|-----------------|--------------------|-----------------|
| F.A.P. RTE. 611 | SECTION 103T-2 | COUNTY HENRY | TOTAL SHEETS 35 | SHEET NO. 34 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |
| CONTRACT NO. 64C66 | | | | |

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

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



| | | | | | | | | | | | | |
|---|--------------------------------------|------------|-----------|---|--|--|--|---------------------------|---------|--------|--------------|-----------|
| FILE NAME = | USER NAME = hensonke | DESIGNED - | REVISED - | CROSS SECTIONS | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| es:\pw_work\PWIDOT\HENSONKE\dms34457\dl1506.xml.dgn | | DRAWN - | REVISED - | | | | | 611 | 103T-2 | HENRY | 35 | 35 |
| | PLOT SCALE = 10.0000' / IN. | CHECKED - | REVISED - | SCALE: SHEET NO. OF SHEETS STA. 781+00.00 TO STA. 781+00.00 | | | | CONTRACT NO. 64C66 | | | | |
| | PLOT DATE = Tue Dec 02 14:00:04 2008 | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**