

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------|---------|--------------------|--------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 1 |
| FED ROAD DIST NO. 1 ILLINOIS | | CONTRACT NO. 62187 | | |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**
FAP 335 IL ROUTE 176 (SLOCUM LAKE ROAD)
OVER BANGS LAKE DRAINAGE DITCH
ROADWAY RECONSTRUCTION, CULVERT REPLACEMENTS

SECTION: 145 X-T
PROJECT NO. *ACF-0335(017)*
LAKE COUNTY
C-91-153-01

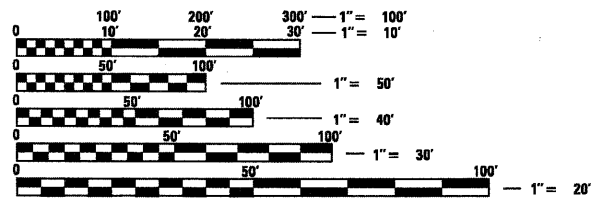
TRAFFIC DATA:

ILLINOIS ROUTE 176
EXISTING 1996 ADT 21,000
PROPOSED 2020 ADT: 27,000
ADTT: 1890
SPEED LIMIT 50 MPH

DESIGN DESIGNATION:

27000(20) OTHER PRINCIPAL ARTERIAL 4.68 (FD-20)

PROJECT IS LOCATED IN THE
VILLAGE OF WAUCONDA



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

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

PROJECT MANAGER LONG TRAN (847) 705-4232
PROJECT ENGINEER CRAIG BAUER (847) 705-4265
CONTRACT NO. 62187

GROSS LENGTH OF PROJECT = 2320.00 FEET = 0.439 MILES
NET LENGTH OF PROJECT = 2320.00 FEET = 0.439 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

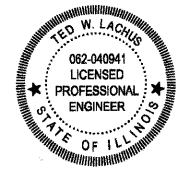
SUBMITTED SEPTEMBER 15, 2011

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3, 2012
John D. Baranelli P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2012
William R. Frey
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

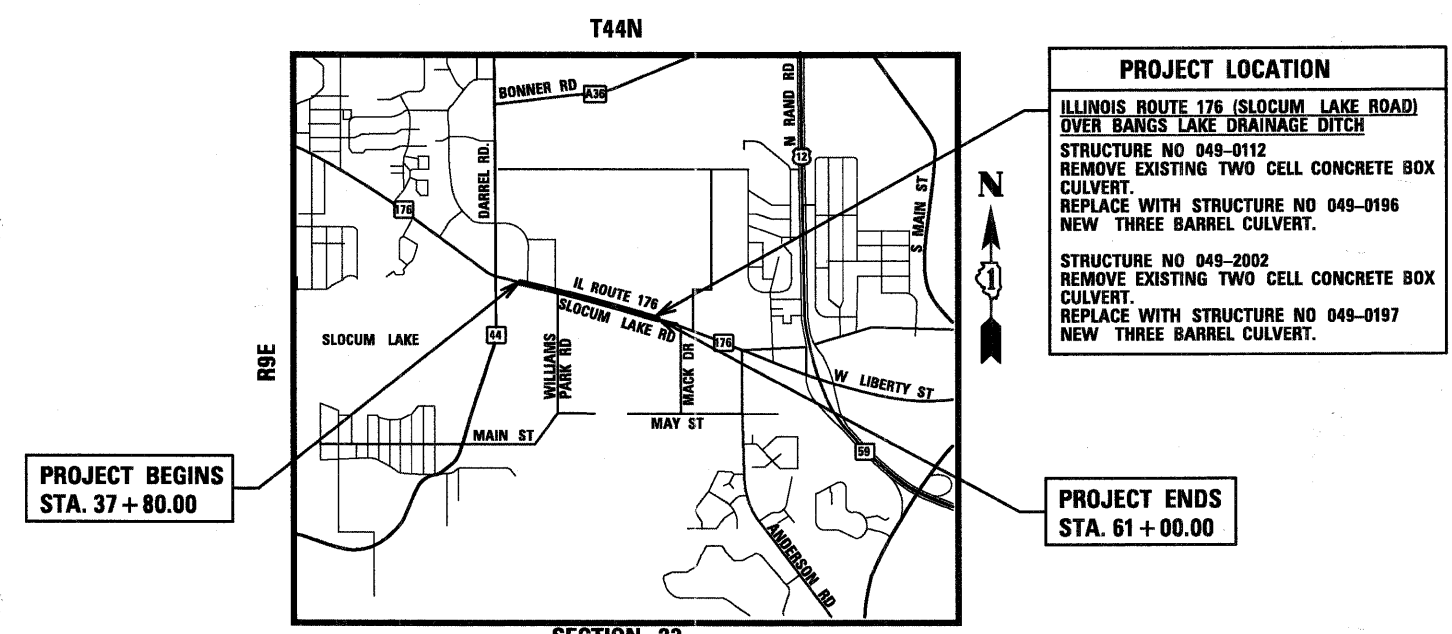
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



Ted W. Lachus
TED W. LACHUS, P.E.
EXPIRES 11-30-2011

9-14-2011
DATE

Primera
100 S. WACKER DRIVE SUITE 700 CHICAGO IL 60606.
P:312-606-0910 F:312-606-0415



PROJECT LOCATION

ILLINOIS ROUTE 176 (SLOCUM LAKE ROAD)
OVER BANGS LAKE DRAINAGE DITCH

STRUCTURE NO 049-0112
REMOVE EXISTING TWO CELL CONCRETE BOX CULVERT.
REPLACE WITH STRUCTURE NO 049-0196
NEW THREE BARREL CULVERT.

STRUCTURE NO 049-2002
REMOVE EXISTING TWO CELL CONCRETE BOX CULVERT.
REPLACE WITH STRUCTURE NO 049-0197
NEW THREE BARREL CULVERT.

PROJECT BEGINS
STA. 37 + 80.00

PROJECT ENDS
STA. 61 + 00.00

SECTION 23
TOWNSHIP: WAUCONDA

LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

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STATE STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 601001-04 SUB-SURFACE DRAINS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 602301-03 INLET-TYPE A
- 602401-03 MANHOLE TYPE A
- 604001-03 FRAME AND LIDS TYPE 1
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 631011-08 TRAFFIC BARRIER TERMINAL, TYPE 2
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEED ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEED ≥ 45 MPH
- 701901-02 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 780001-03 TYPICAL PAVEMENT MARKINGS

GENERAL NOTES:

1. THESE PLANS HAVE BEEN PREPARED FROM INFORMATION ACQUIRED FROM EXISTING PLANS AND NOTES RECEIVED FROM IDOT FIELD MAINTENANCE ENGINEERS.
2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
3. FORTY- EIGHT HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR LOCATIONS OF THE EXISTING UTILITIES.
4. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED SHOULDERS TO EXISTING SHOULDERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF WAUCONDA.
6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
7. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
10. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS ADJOINING RESIDENTIAL AREAS.
11. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO BANGS LAKE DRAINAGE DITCH. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.
13. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
14. THE ENGINEER SHALL CONTACT DEBBIE HANLON, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
15. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
16. ACCESS SHALL BE PROVIDED AT ALL TIMES TO PROPERTIES ABUTTING THE PROPOSED IMPROVEMENT.
17. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
18. PRIOR TO CONDUCTING ANY PROFESSIONAL SERVICES AT THE SITE COVERED BY THIS CONTRACT, THE CONTRACTOR AND EVERY SUBCONTRACTOR MUST COMPLETE AND RETURN TO THE RESIDENT ENGINEER THE BDE 2342A FORM, CONTRACTOR CERTIFICATION STATEMENT, LOCATED IN THE SWPPP.
19. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER THE IN STREAM WORK BY THE CONTRACTOR. THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO SUBMIT THE WORK PLAN TO THE CORPS. THE CORPS WILL NOT BE PROVIDING AN APPROVAL UNLESS STATED OTHERWISE IN THE PERMIT AND IN STREAM WORK CAN COMMENCE AT THE CONTRACTOR'S DISCRETION. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE:
[HTTP://WWW.LRC.USACE.ARMY.MIL/](http://www.lrc.usace.army.mil/)

COMMITMENTS

1. ON DRIVEWAY ENTRANCES TO ABUTTING PROPERTIES, VEHICULAR ACCESS WILL GENERALLY BE MAINTAINED AT ALL TIMES WHEN THE WORK IN FRONT OF THE PROPERTY IS BEING ACCOMPLISHED.
2. A FENCE OR BARRIER SHOULD BE ERECTED TO PREVENT CONSTRUCTION EQUIPMENT FROM GOING BEYOND THE PROPOSED EASEMENTS. THIS COULD BE PLASTIC SNOW FENCING SO LONG AS IT IS ERECTED IN A MANNER THAT MAKES IT DIFFICULT TO MOVE. THIS WILL BE PAID FOR AS "TEMPORARY FENCE".
3. DUE TO THE PRESENCE OF BANGS LAKE AND BANGS LAKE DRAIN, SPECIAL ATTENTION TO EROSION CONTROL SHOULD BE MADE TO MINIMIZE THE POTENTIAL FOR SEDIMENTS TO BE DEPOSITED IN THE STREAM.
4. THE WETLANDS MUST BE CLEARLY IDENTIFIED ON THE CONTRACT PLANS. EROSION AND SEDIMENT CONTROL MUST BE IMPLEMENTED AT THE PERIMETER OF THE CONSTRUCTION ZONE TO PREVENT INADVERTENT AND UNINTENTIONAL WETLANDS IMPACTS.
5. REMOVE AND REPLACE ANY GATES AND OR GATE POSTS THAT MAY BE ENCOUNTERED FOR ANY DRIVEWAY AND/OR PROPERTY (INCIDENTAL TO CONTRACT).

INCIDENTAL ITEMS ARE BOXED

| | | | | | | | | | | | |
|---|--|----------------|-----------|---|--|-------------------------|-------------|---------|--------------------|--------------|-----------|
| FILE NAME = ...\\D162187-shr:gennote.dgn | | DESIGNED | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN | REVISED - | | 335 | 145 X-T | LAKE | 80 | 2 | | |
| | | CHECKED | REVISED - | | SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | CONTRACT NO. 62187 | | |
| | | DATE 9/14/2011 | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | |

SUMMARY OF QUANTITIES

| CODED PAY ITEM NUMBER | PAY ITEM | UNIT | 80% FED. / 20% STATE URBAN CONSTRUCTION TYPE CODE | | |
|-----------------------|---|------------------|--|--------------|-----------------------|
| | | | TOTAL QUANTITIES | ROADWAY 0004 | MINOR STRUCTURES 0011 |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 2040 | 2040 | |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 1221 | 1221 | |
| 20101000 | TEMPORARY FENCE | FOOT | 222 | 222 | |
| 20101100 | TREE TRUNK PROTECTION | EACH | 22 | 22 | |
| 20200100 | EARTH EXCAVATION | CU YD | 7982 | 7982 | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 1005 | 1005 | |
| 20400800 | FURNISHED EXCAVATION | CU YD | 7868 | 7868 | |
| 20700200 | POROUS GRANULAR EMBANKMENT | CU YD | 470 | | 470 |
| 20800150 | TRENCH BACKFILL | CU YD | 33 | 33 | |
| * 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 18208 | 18208 | |
| * 25000210 | SEEDING, CLASS 2A | ACRE | 1.25 | 1.25 | |
| * 25000310 | SEEDING, CLASS 4 | ACRE | 2.75 | 2.75 | |
| * 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 99 | 99 | |
| * 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 99 | 99 | |
| * 25100125 | MULCH, METHOD 3 | ACRE | 2.00 | 2.00 | |
| * 25100630 | EROSION CONTROL BLANKET | SQ YD | 23047 | 23047 | |
| * 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 376 | 376 | |
| * 28000305 | TEMPORARY DITCH CHECKS | FOOT | 266 | 266 | |
| 28000315 | AGGREGATE DITCH CHECKS | TON | 48 | 48 | |
| 28000400 | PERIMETER EROSION BARRIER | FOOT | 4743 | 4743 | |
| 28000510 | INLET FILTERS | EACH | 2 | 2 | |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 547 | 28 | 519 |
| 28200200 | FILTER FABRIC | SQ YD | 563 | 44 | 519 |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8" | SQ YD | 661 | 661 | |
| 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GALLON | 1014 | 1014 | |

* INDICATES SPECIALTY ITEMS

| CODED PAY ITEM NUMBER | PAY ITEM | UNIT | 80% FED. / 20% STATE URBAN CONSTRUCTION TYPE CODE | | |
|-----------------------|---|-------|--|--------------|-----------------------|
| | | | TOTAL QUANTITIES | ROADWAY 0004 | MINOR STRUCTURES 0011 |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 32 | 32 | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 | |
| 40603335 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 | TON | 74 | 74 | |
| 40701941 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" | SQ YD | 10142 | 10142 | |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 14608 | 14608 | |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 661 | 661 | |
| 48101600 | AGGREGATE SHOULDERS, TYPE B 8" | SQ YD | 1454 | 1454 | |
| 50100300 | REMOVAL OF EXISTING STRUCTURES NO. 1 | EACH | 1 | | 1 |
| 50100400 | REMOVAL OF EXISTING STRUCTURES NO. 2 | EACH | 1 | | 1 |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 142 | 142 | |
| 50500505 | STUD SHEAR CONNECTORS | EACH | 683 | | 683 |
| 50800105 | REINFORCEMENT BARS | POUND | 242050 | | 242050 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 4040 | | 4040 |
| 50800515 | BAR SPLICERS | EACH | 896 | | 896 |
| 51500100 | NAME PLATES | EACH | 2 | | 2 |
| 54001001 | BOX CULVERT END SECTIONS, CULVERT NO. 1 | EACH | 4 | 4 | |
| 54003000 | CONCRETE BOX CULVERTS | CU YD | 1134.8 | | 1134.8 |
| 54010302 | PRECAST CONCRETE BOX CULVERTS 3' X 2' | FOOT | 132 | 132 | |
| 542A0220 | PIPE CULVERTS, CLASS A, TYPE 1 15" | FOOT | 360 | 360 | |
| 54213660 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | EACH | 7 | 7 | |
| 5421C018 | PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY) | FOOT | 72 | 72 | |
| 60100060 | CONCRETE HEADWALLS FOR PIPE DRAINS | EACH | 5 | 5 | |
| 60100080 | FRENCH DRAINS | CU YD | 28 | | 28 |
| 60107600 | PIPE UNDERDRAINS 4" | FOOT | 241 | 241 | |
| 60100085 | GEOTECHNICAL FABRIC FOR FRENCH DRAINS | SQ YD | 368 | | 368 |
| 60218300 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID | EACH | 1 | 1 | |
| 60234200 | INLETS, TYPE A, TYPE 1 FRAME, OPEN LID | EACH | 1 | 1 | |

* INDICATES SPECIALTY ITEMS

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| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
SUMMARY OF QUANTITIES**

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 3 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SUMMARY OF QUANTITIES

| CODED PAY ITEM NUMBER | PAY ITEM | UNIT | TOTAL QUANTITIES | 80% FED./20% STATE URBAN CONSTRUCTION TYPE CODE | | |
|-----------------------|---|--------|------------------|--|-----------------------|------------------|
| | | | | ROADWAY 0004 | MINOR STRUCTURES 0011 | LANDSCAPING 0031 |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 1175.0 | 1175.0 | | |
| * 63000025 | STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES | FOOT | 262.5 | 262.5 | | |
| * 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 2 | 2 | | |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 12 | 12 | | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 742 | 742 | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 8 | 8 | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE | CAL DA | 150 | 150 | | |
| 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 8 | 8 | | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 8395 | 8395 | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 1975.0 | 1975.0 | | |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 1587.5 | 1587.5 | | |
| 72300100 | INSTALL EXISTING SIGN PANEL | SQ FT | 23 | 23 | | |
| * 72400310 | REMOVE SIGN PANEL - TYPE 1 | SQ FT | 23 | 23 | | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 7343 | 7343 | | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 34 | 34 | | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 41 | 41 | | |
| * 78200410 | GUARDRAIL MARKERS, TYPE A | EACH | 34 | 34 | | |
| * 78201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 12 | 12 | | |
| * 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 10 | 10 | | |
| * A2000320 | TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 7 | | | 7 |
| * A2002920 | TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 7 | | | 7 |
| * A2006420 | TREE, QUERCUS ALBA (WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 7 | | | 7 |
| * A2006520 | TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 7 | | | 7 |
| * A2018718 | TREE, ULMUS CARPINIFOLIA MORTON, (ACCOLADE ELM), 2" CALIPER, BALLED AND BURLAPPED | EACH | 7 | | | 7 |

* INDICATES SPECIALTY ITEMS

| CODED PAY ITEM NUMBER | PAY ITEM | UNIT | TOTAL QUANTITIES | 80% FED./20% STATE URBAN CONSTRUCTION TYPE CODE | | |
|-----------------------|--|-------|------------------|--|-----------------------|------------------|
| | | | | ROADWAY 0004 | MINOR STRUCTURES 0011 | LANDSCAPING 0031 |
| X0327301 | RELOCATE EXISTING MAILBOX | EACH | 6 | 6 | | |
| X4022000 | TEMPORARY ACCESS (COMMERCIAL ENTRANCE) | EACH | 4 | 4 | | |
| X4023000 | TEMPORARY ACCESS (ROAD) | EACH | 1 | 1 | | |
| X5121800 | PERMANENT STEEL SHEET PILING | SQ FT | 4003 | | 4003 | |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 1 | | |
| X7030030 | WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH | FOOT | 24560 | 24560 | | |
| X7030055 | WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH | FOOT | 104 | 104 | | |
| Z0001050 | AGGREGATE SUBGRADE 12" | SQ YD | 10142 | 10142 | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 | | |
| Z0026407 | TEMPORARY SHEET PILING | SQ FT | 3679 | | 3679 | |
| Z0028462 | GEOTEXTILE RETAINING WALL | SQ FT | 331 | | 331 | |
| Z0030250 | IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 6 | 6 | | |
| Z0030350 | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 7 | 7 | | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 57 | 57 | | |
| Z0042002 | POROUS GRANULAR EMBANKMENT, SUBGRADE | CU YD | 515 | 515 | | |
| Z0062456 | TEMPORARY PAVEMENT | SQ YD | 8261 | 8261 | | |
| Z0073002 | TEMPORARY SOIL RETENTION SYSTEM | SQ FT | 6660 | 6660 | | |
| Z0073410 | TEMPORARY SUPPORT SYSTEM, LOCATION 1 | EACH | 1 | | 1 | |
| Z0073420 | TEMPORARY SUPPORT SYSTEM, LOCATION 2 | EACH | 1 | | 1 | |
| Z0076600 | TRAINEES | HOUR | 1000 | 1000 | | |

* INDICATES SPECIALTY ITEMS

FILE NAME = ...D162187-sh-t-500.02.dgn



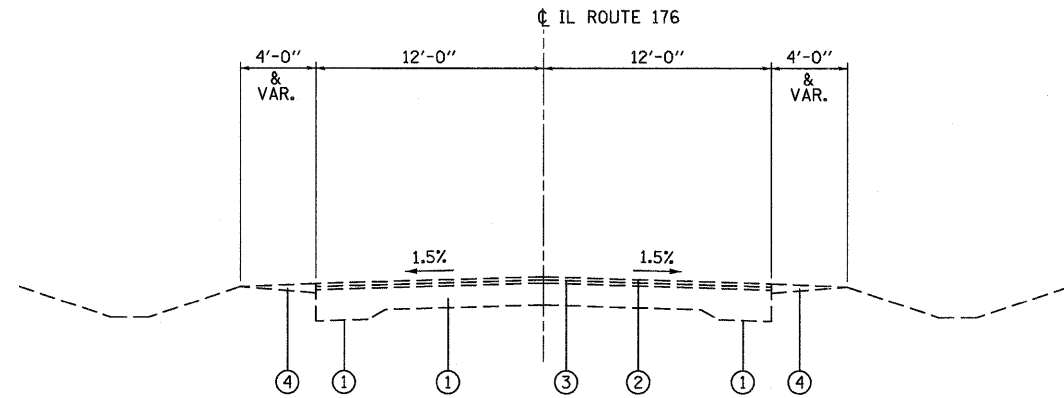
| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
SUMMARY OF QUANTITIES**

| | | | | |
|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 4 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

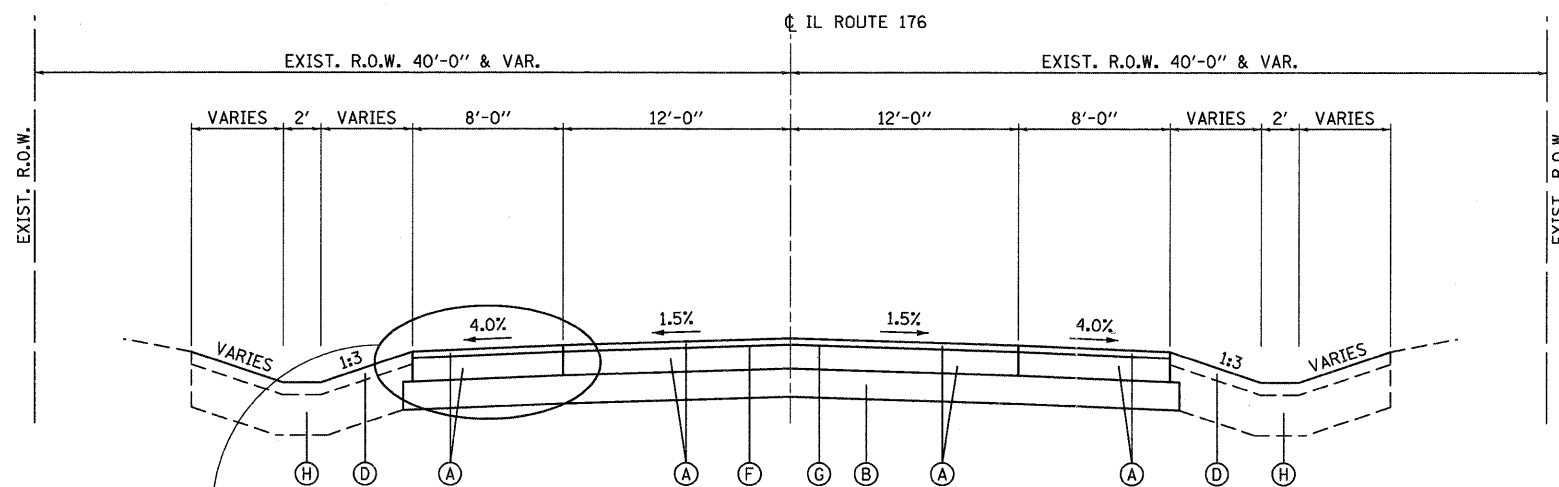
SCALE: N/A SHEET NO. 2 OF 2 SHEETS STA. TO STA.



EXISTING TYPICAL SECTION
STA. 37 + 80.00 TO STA. 61 + 00.00

EXISTING LEGEND

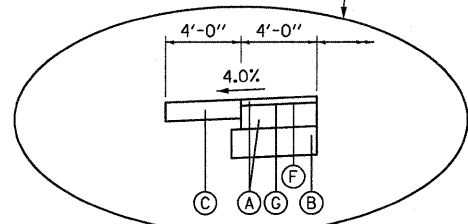
- ① P.C.C. PAVEMENT, 9", 7", 9"
- ② HMA SURFACE
- ③ HMA BINDER
- ④ AGGREGATE SHOULDER



PROPOSED TYPICAL SECTION
STA. 37 + 80.00 TO STA. 61 + 00.00

PROPOSED LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH) 13" POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (2") POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (11")
- (B) AGGREGATE SUBGRADE, 12"
- (C) AGGREGATE SHOULDERS, TYPE B 8"
- (D) PARKWAY RESTORATION: EROSION CONTROL BLANKET SEEDING, CLASS 2A OR CLASS 4 (SEE PLANS) TOPSOIL FURNISH AND PLACE, 4"
- (E) POROUS GRANULAR EMBANKMENT, SUBGRADE
- (F) BITUMINOUS MATERIALS (PRIME COAT)
- (G) AGGREGATE (PRIME COAT)
- (H) FILL/EMBANKMENT/FURNISHED EXCAVATION
- (I) STEEL PLATE BEAM GUARDRAIL OR STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE



STA. 37+80.00 TO STA. 40+00.00 (L)
STA. 57+00.00 TO STA. 61+00.00 (L)

| HOT-MIX ASPHALT MIXTURE REQUIREMENTS | |
|---|--------------|
| MIXTURE TYPE | AIR VOIDS |
| HMA FULL DEPTH PAVEMENT, 13" | |
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL-9.5mm) 2" | 4% @ 90 Gyr. |
| POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 11" | 4% @ 90 Gyr. |
| DRIVEWAY PAVEMENT | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) 2" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm): PE-6"; CE-8" | 4% @ 50 Gyr. |
| TEMPORARY PAVEMENT | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) 2" | 4% @ 50 Gyr. |
| HOT-MIX ASPHALT BINDER, IL-19mm, N50 8" | 4% @ 50 Gyr. |
| IF THE CONTRACTOR CHOOSES TO USE CONCRETE FOR THE TEMPORARY PAVEMENT THE THICKNESS SHALL BE 10". | |
| THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS: 112 LBS/SQ YD/IN. | |
| The "AC Type" for Polymerized HMA Mixes SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" shall be "PG 64-22" UNLESS modified by District ONE Special Provisions. | |
| FOR "PERCENT OF RAP/RAS" SEE DISTRICT ONE SPECIAL PROVISIONS. | |

FILE NAME = ... \D162187-sht-typical.01.dgn



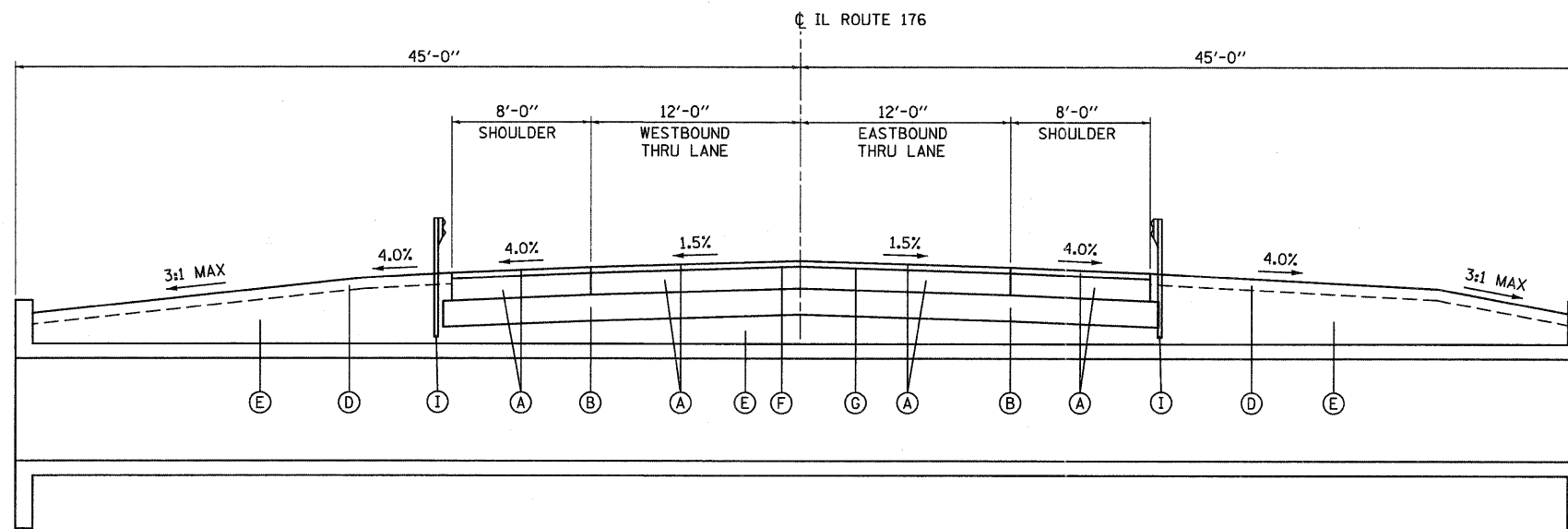
| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
TYPICAL SECTIONS

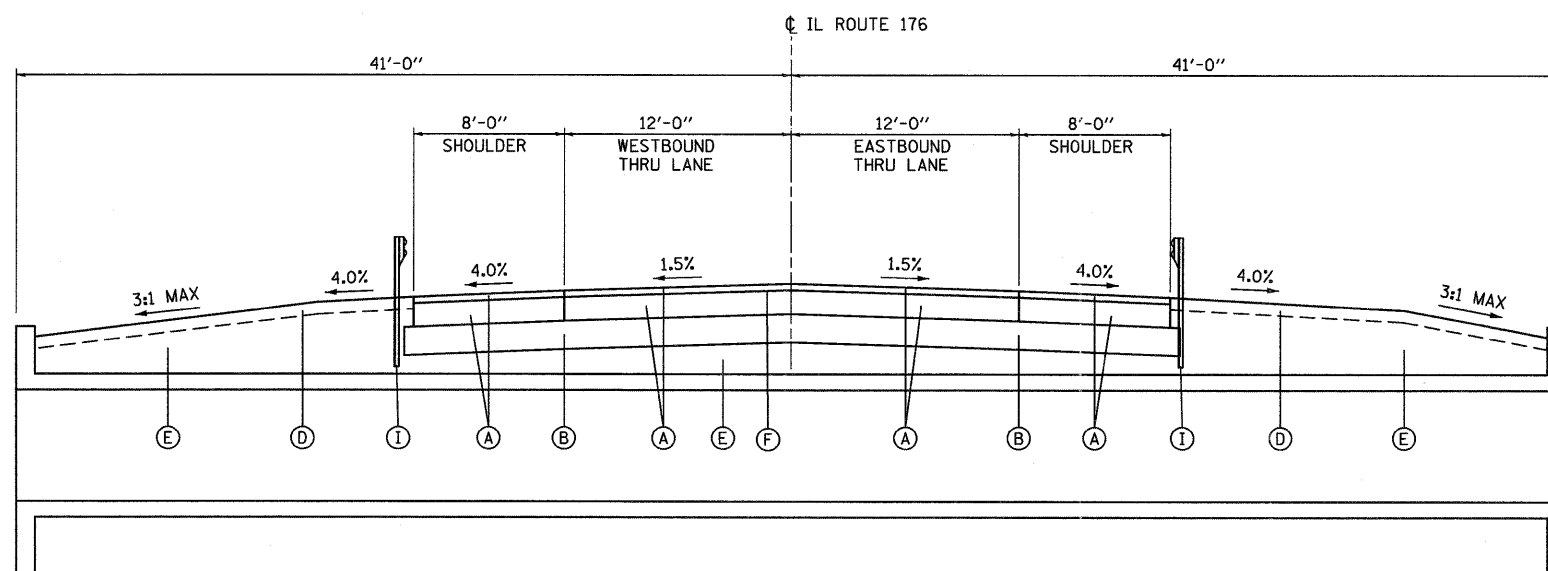
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|---------------|-------------------------|------|---------|
| SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA. |
|---------------|-------------------------|------|---------|

| | | | | |
|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 5 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |



PROPOSED TYPICAL SECTION AT CULVERT

STA. 45 + 00.00



PROPOSED TYPICAL SECTION AT CULVERT

STA. 54 + 00.00

PROPOSED LEGEND

- (A) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH) 13"
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (1")
- (B) AGGREGATE SUBGRADE, 12"
- (C) AGGREGATE SHOULDERS, TYPE B 8"
- (D) PARKWAY RESTORATION:
EROSION CONTROL BLANKET SEEDING, CLASS 2A OR CLASS 4 (SEE PLANS)
TOPSOIL FURNISH AND PLACE, 4"
- (E) POROUS GRANULAR EMBANKMENT, SUBGRADE
- (F) BITUMINOUS MATERIALS (PRIME COAT)
- (G) AGGREGATE (PRIME COAT)
- (H) FILL/EMBANKMENT/FURNISHED EXCAVATION
- (I) STEEL PLATE BEAM GUARDRAIL OR
STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE

NOTE:

1. SEE STRUCTURAL PLAN FOR ADDITIONAL INFORMATION.
2. POROUS GRANULAR EMBANKMENT, SUBGRADE SHALL BE PLACED OVER THE ENTIRE LIMITS OF THE 3-SIDED STRUCTURES.

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DESIGNED ADW
DRAWN GEW
CHECKED RJD
DATE 9/14/2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|--------|---------------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 6 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

SCHEDULE OF QUANTITIES

| TREE REMOVAL 6 TO 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 40+42 | RT | 9 |
| 43+90 | RT | 12 |
| 44+07 | RT | 10 |
| 44+12 | RT | 10 |
| 44+21 | RT | 8 |
| 45+40 | RT | 7 |
| 45+40 | RT | 8 |
| 45+40 | RT | 8 |
| 45+40 | RT | 7 |
| 45+40 | RT | 6 |
| 45+40 | RT | 8 |
| 45+40 | RT | 8 |
| 45+40 | RT | 8 |
| 45+40 | RT | 7 |
| 45+40 | RT | 6 |
| 45+40 | RT | 8 |
| 45+40 | RT | 6 |
| 45+40 | RT | 6 |
| 46+39 | RT | 6 |
| 46+30 | RT | 6 |
| 47+81 | RT | 10 |
| 49+17 | RT | 10 |
| 50+00 | RT | 8 |
| 50+03 | RT | 8 |
| 50+07 | RT | 8 |
| 50+10 | RT | 8 |
| 50+12 | RT | 8 |
| 50+33 | RT | 8 |
| 50+54 | RT | 12 |
| 50+66 | RT | 10 |
| 50+85 | RT | 8 |
| 50+96 | RT | 12 |
| 51+03 | RT | 12 |
| 51+08 | RT | 8 |
| 51+31 | RT | 8 |
| 52+10 | RT | 8 |
| 52+75 | RT | 8 |
| 52+78 | RT | 6 |
| 52+90 | RT | 6 |
| 52+94 | RT | 6 |
| 53+05 | RT | 6 |
| 53+17 | RT | 8 |
| Subtotal 1 | | 333 |

| TREE REMOVAL 6 TO 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 41+42 | LT | 15 |
| 41+43 | LT | 8 |
| 41+46 | LT | 10 |
| 41+47 | LT | 8 |
| 41+62 | LT | 10 |
| 41+65 | LT | 11 |
| 41+67 | LT | 10 |
| 41+73 | LT | 8 |
| 41+75 | LT | 11 |
| 41+80 | LT | 10 |
| 41+81 | LT | 15 |
| 41+88 | LT | 11 |
| 41+91 | LT | 12 |
| 41+93 | LT | 8 |
| 41+94 | LT | 6 |
| 41+97 | LT | 11 |
| 42+03 | LT | 10 |
| 42+06 | LT | 14 |
| 42+24 | LT | 14 |
| 42+30 | LT | 12 |
| 42+43 | LT | 14 |
| 42+52 | LT | 10 |
| 42+74 | LT | 10 |
| 42+82 | LT | 8 |
| 42+89 | LT | 9 |
| 42+96 | LT | 9 |
| 42+99 | LT | 11 |
| 43+05 | LT | 6 |
| 43+17 | LT | 10 |
| 43+18 | LT | 6 |
| 43+18 | LT | 11 |
| 43+22 | LT | 8 |
| 43+41 | LT | 6 |
| 43+41 | LT | 6 |
| 43+42 | LT | 6 |
| 43+55 | LT | 8 |
| 43+60 | LT | 9 |
| 43+60 | LT | 6 |
| 43+60 | LT | 6 |
| 43+67 | LT | 10 |
| 43+68 | LT | 6 |
| 43+72 | LT | 9 |
| 43+80 | LT | 10 |
| Subtotal 2 | | 416 |

| TREE REMOVAL 6 TO 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 43+85 | LT | 10 |
| 43+90 | LT | 6 |
| 43+93 | LT | 12 |
| 43+96 | LT | 10 |
| 44+10 | LT | 7 |
| 44+33 | LT | 12 |
| 44+37 | LT | 12 |
| 44+42 | LT | 12 |
| 44+42 | LT | 8 |
| 44+45 | LT | 12 |
| 44+46 | LT | 6 |
| 44+49 | LT | 6 |
| 44+53 | LT | 8 |
| 44+58 | LT | 8 |
| 44+70 | LT | 12 |
| 44+78 | LT | 12 |
| 44+78 | LT | 12 |
| 44+87 | LT | 10 |
| 44+88 | LT | 8 |
| 44+95 | LT | 8 |
| 44+96 | LT | 12 |
| 45+00 | LT | 8 |
| 45+07 | LT | 15 |
| 45+10 | LT | 12 |
| 45+20 | LT | 15 |
| 45+81 | LT | 6 |
| 45+84 | LT | 8 |
| 46+50 | LT | 6 |
| 46+60 | LT | 6 |
| 47+21 | LT | 8 |
| 47+29 | LT | 12 |
| 47+66 | LT | 8 |
| 47+71 | LT | 12 |
| 48+17 | LT | 7 |
| 48+24 | LT | 6 |
| 48+35 | LT | 7 |
| 48+58 | LT | 8 |
| 48+90 | LT | 10 |
| 49+02 | LT | 10 |
| 49+16 | LT | 10 |
| 49+60 | LT | 8 |
| 49+70 | LT | 12 |
| 49+75 | LT | 8 |
| 49+83 | LT | 8 |
| 49+91 | LT | 10 |
| Subtotal 3 | | 430 |

| TREE REMOVAL 6 TO 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 49+96 | LT | 15 |
| 50+00 | LT | 13 |
| 50+13 | LT | 13 |
| 50+15 | LT | 6 |
| 50+20 | LT | 12 |
| 50+60 | LT | 6 |
| 50+65 | LT | 6 |
| 50+67 | LT | 8 |
| 50+77 | LT | 8 |
| 51+00 | LT | 6 |
| 51+16 | LT | 10 |
| 51+37 | LT | 10 |
| 51+50 | LT | 6 |
| 51+60 | LT | 12 |
| 51+70 | LT | 12 |
| 51+85 | LT | 12 |
| 51+92 | LT | 14 |
| 52+20 | LT | 10 |
| 52+38 | LT | 12 |
| 52+38 | LT | 12 |
| 52+47 | LT | 8 |
| 52+60 | LT | 10 |
| 52+79 | LT | 6 |
| 53+02 | LT | 6 |
| 53+02 | LT | 6 |
| 53+05 | LT | 12 |
| 53+05 | LT | 12 |
| 53+05 | LT | 12 |
| 53+20 | LT | 10 |
| 53+32 | LT | 12 |
| 53+32 | LT | 8 |
| 53+38 | LT | 8 |
| 53+44 | LT | 8 |
| 53+93 | LT | 8 |
| 53+98 | LT | 8 |
| 54+05 | LT | 12 |
| 54+20 | LT | 8 |
| 54+27 | LT | 8 |
| 54+32 | LT | 6 |
| 54+35 | LT | 8 |
| 54+61 | LT | 8 |
| 54+61 | LT | 8 |
| 54+66 | LT | 8 |
| 54+66 | LT | 6 |
| 55+15 | LT | 8 |
| 55+41 | LT | 10 |
| Subtotal 4 | | 433 |

| TREE REMOVAL 6 TO 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 55+50 | LT | 14 |
| 55+64 | LT | 12 |
| 55+92 | LT | 14 |
| 56+67 | LT | 12 |
| 57+20 | LT | 6 |
| 57+24 | LT | 6 |
| 57+28 | LT | 8 |
| 57+38 | LT | 6 |
| 57+65 | LT | 12 |
| 57+65 | LT | 12 |
| 57+65 | LT | 12 |
| 57+75 | LT | 12 |
| 57+80 | LT | 8 |
| 59+72 | LT | 14 |
| 60+84 | LT | 14 |
| Subtotal 5 | | 162 |

| | |
|---------------------------|-------|
| Subtotal 1 | 333 |
| Subtotal 2 | 416 |
| Subtotal 3 | 430 |
| Subtotal 4 | 433 |
| Subtotal 5 | 162 |
| SubTOTAL: | 1,774 |
| INCREASE SUBTOTAL BY 15%: | 266 |
| TOTAL: | 2,040 |

| TREE TRUNK PROTECTION UNITS EACH | | | |
|----------------------------------|----|--------------|------------|
| STATION | | UNITS INCHES | UNITS EACH |
| 39+68 | RT | 24 | 1 |
| 39+75 | RT | 12 | 1 |
| 39+96 | RT | 12 | 1 |
| 40+13 | RT | 22 | 1 |
| 40+24 | RT | 19 | 1 |
| 40+25 | RT | 22 | 1 |
| 40+54 | LT | 22 | 1 |
| 40+74 | LT | 18 | 1 |
| 40+79 | LT | 10 | 1 |
| 40+81 | LT | 16 | 1 |
| 40+88 | LT | 7 | 1 |
| 40+89 | LT | 11 | 1 |
| 40+93 | LT | 6 | 1 |
| 44+48 | LT | 12 | 1 |
| 52+76 | RT | 28 | 1 |
| 52+96 | RT | 32 | 1 |
| 53+05 | RT | 24 | 1 |
| 53+19 | RT | 24 | 1 |
| 53+31 | RT | 24 | 1 |
| 53+83 | RT | 12 | 1 |
| 53+98 | RT | 22 | 1 |
| 54+10 | RT | 24 | 1 |
| TOTAL | | 201 | 22 |

| TREE REMOVAL OVER 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 41+55 | LT | 21 |
| 43+36 | LT | 32 |
| 45+16 | LT | 18 |
| 45+31 | LT | 18 |
| 45+32 | LT | 18 |
| 46+20 | LT | 22 |
| 46+21 | LT | 18 |
| 46+50 | LT | 22 |
| 46+60 | LT | 18 |
| 46+65 | LT | 18 |
| 46+70 | LT | 21 |
| 47+13 | LT | 18 |
| 47+45 | LT | 20 |
| 47+91 | LT | 18 |
| 48+05 | LT | 18 |
| 48+46 | LT | 21 |
| 49+31 | LT | 20 |
| 50+96 | LT | 16 |
| 51+20 | LT | 18 |
| 51+38 | LT | 18 |
| 51+62 | LT | 16 |
| 51+72 | LT | 16 |
| 51+91 | LT | 21 |
| 52+38 | LT | 18 |
| 52+48 | LT | 28 |
| 53+20 | LT | 18 |
| 53+42 | LT | 18 |
| 53+55 | LT | 16 |
| 53+60 | LT | 24 |
| 53+77 | LT | 22 |
| 54+15 | LT | 26 |
| 54+47 | LT | 28 |
| 54+61 | LT | 24 |
| 54+84 | LT | 16 |
| 54+95 | LT | 16 |
| 55+58 | LT | 16 |
| 55+62 | LT | 18 |
| 55+66 | LT | 18 |
| 55+72 | LT | 16 |
| 55+87 | LT | 18 |
| 57+04 | LT | 22 |
| Subtotal 1 | | 808 |

| TREE REMOVAL OVER 15 UNITS DIAMETER | | |
|-------------------------------------|----|--------------|
| STATION | | UNITS INCHES |
| 40+36 | RT | 22 |
| 40+49 | RT | 24 |
| 43+90 | RT | 18 |
| 44+02 | RT | 22 |
| 51+42 | RT | 30 |
| 51+58 | RT | 24 |
| 51+82 | RT | 28 |
| 52+66 | RT | 38 |
| 53+32 | RT | 48 |
| Subtotal 2 | | 254 |

| | |
|---------------------------|-------|
| Subtotal 1 | 808 |
| Subtotal 2 | 254 |
| SubTOTAL: | 1,062 |
| INCREASE SUBTOTAL BY 15%: | 159 |
| TOTAL: | 1,221 |

NOTE:
THE TREE DIAMETERS NOTED ON THE PLAN WERE DETERMINED FROM A TREE SURVEY THAT WAS TAKEN IN 2002. THE PLAN QUANTITIES AND SCHEDULES REFLECT AN ESTIMATED GROWTH OF 15% SINCE THE TREE SURVEY WAS PERFORMED.

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DESIGNED ADW
DRAWN GEW
CHECKED RJD
DATE 9/14/2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
SCHEDULE OF QUANTITIES

SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|-----------------|-------------|--------------------|-------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 7 |
| | | | CONTRACT NO. 62187 | |
| ILLINOIS FED. AID PROJECT | | | | |

SCHEDULE OF QUANTITIES

| INSTALL EXISTING SIGN PANEL | | | | |
|-----------------------------|----|-------------|------------|------------------|
| STATION | | TYPE | DIMENSIONS | QUANTITY SQ. FT. |
| 40+60 | RT | Stop | 30" x 30" | 6.5 |
| 41+35 | RT | Stop | 30" x 30" | 6.5 |
| 55+50 | LT | Speed Limit | 24" x 30" | 5.0 |
| 55+50 | RT | Speed Limit | 24" x 30" | 5.0 |
| TOTAL: | | | | 23.0 |

| RELOCATE EXISTING MAILBOX | | |
|---------------------------|--------|------------|
| STATION | OFFSET | TOTAL EACH |
| 54+11 | 24' RT | 1 |
| 54+12 | 24' RT | 1 |
| 58+39 | 23' RT | 1 |
| 61+93 | 23' RT | 1 |
| 61+96 | 23' RT | 1 |
| 62+00 | 23' RT | 1 |
| TOTAL: | | 6 |

| STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURES | | | | | | |
|---|----------|----------|----|----------|----------|-------------|
| STRUCTURE NUMBER | STATION | OFFSET | TO | STATION | OFFSET | LENGTH FEET |
| SN 049-0197 | 44+30.00 | 20.5' RT | TO | 45+05.00 | 20.5' RT | 75.0 |
| | 44+94.00 | 20.5' LT | TO | 45+69.00 | 20.5' LT | 75.0 |
| SN 049-0196 | 53+50.00 | 20.5' LT | TO | 54+12.50 | 20.5' LT | 62.5 |
| | 54+04.13 | 32.5' RT | TO | 54+50.00 | 20.5' RT | 50.0 |
| TOTAL: | | | | | | 262.5 |

| REMOVE SIGN PANEL TYPE 1 | | | | |
|--------------------------|----|-------------|------------|------------------|
| STATION | | TYPE | DIMENSIONS | QUANTITY SQ. FT. |
| 40+60 | RT | Stop | 30" x 30" | 6.5 |
| 41+35 | RT | Stop | 30" x 30" | 6.5 |
| 55+50 | LT | Speed Limit | 24" x 30" | 5.0 |
| 55+50 | RT | Speed Limit | 24" x 30" | 5.0 |
| TOTAL: | | | | 23.0 |

| STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | | | | | | |
|--|----------|----------|----|----------|----------|-------------|
| STRUCTURE NUMBER | STATION | OFFSET | TO | STATION | OFFSET | LENGTH FEET |
| SN 049-0197 | 41+87.61 | 20.5' RT | TO | 42+00.11 | 20.5' RT | 12.5 |
| | 43+17.50 | 20.5' RT | TO | 44+30.00 | 20.5' RT | 112.5 |
| | 43+94.00 | 20.5' LT | TO | 44+94.00 | 20.5' LT | 100.0 |
| | 45+05.00 | 20.5' RT | TO | 46+05.00 | 20.5' RT | 100.0 |
| | 45+69.00 | 20.5' LT | TO | 47+94.00 | 20.5' LT | 225.0 |
| SN 049-0196 | 51+37.00 | 20.5' RT | TO | 52+74.50 | 20.5' RT | 137.5 |
| | 52+00.00 | 20.5' LT | TO | 53+50.00 | 20.5' LT | 150.0 |
| | 53+96.12 | 42.1' RT | TO | 54+04.13 | 32.5' RT | 12.5 |
| | 54+12.50 | 20.5' LT | TO | 55+87.50 | 20.5' LT | 175.0 |
| | 54+50.00 | 20.5' RT | TO | 56+00.00 | 20.5' RT | 150.0 |
| TOTAL: | | | | | | 1175.0 |

| GUARDRAIL REMOVAL | | | | | |
|-------------------|----|----|---------|----|--------|
| STATION | | TO | STATION | | LENGTH |
| 43+06 | RT | TO | 45+06 | RT | 200 |
| 44+65 | LT | TO | 46+67 | LT | 202 |
| 54+92 | RT | TO | 56+19 | RT | 138 |
| 53+30 | LT | TO | 55+32 | LT | 202 |
| TOTAL: | | | | | 742 |

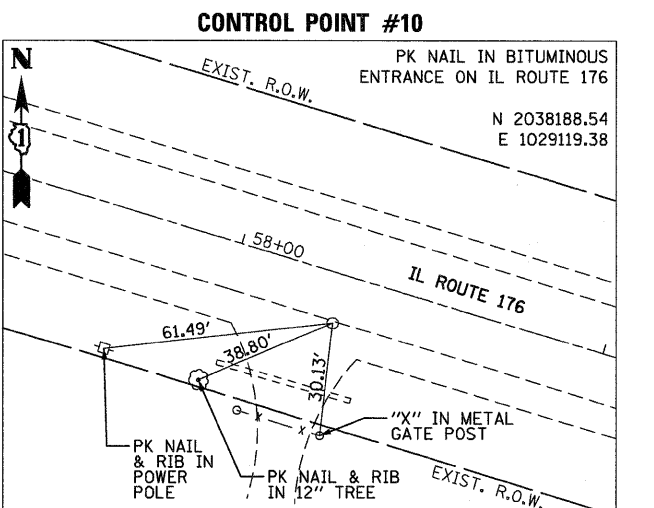
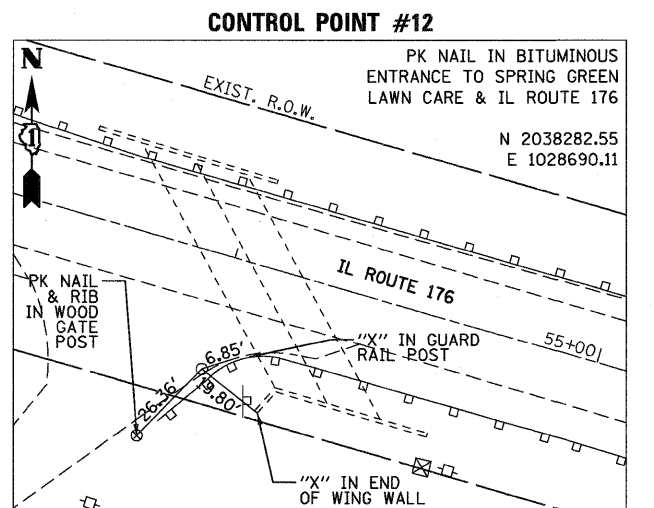
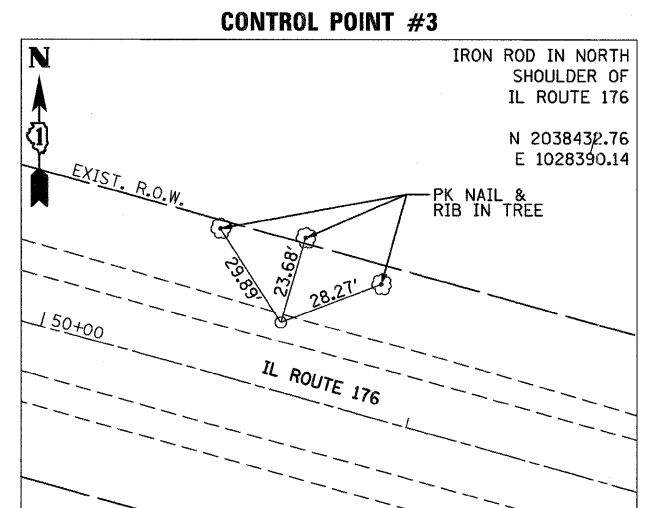
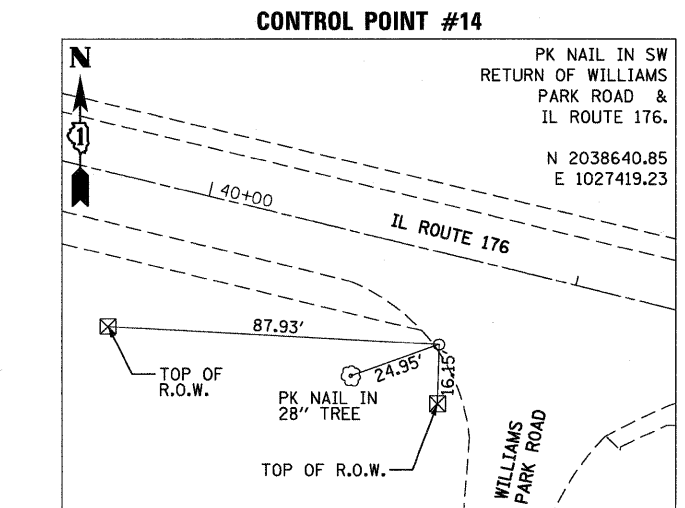
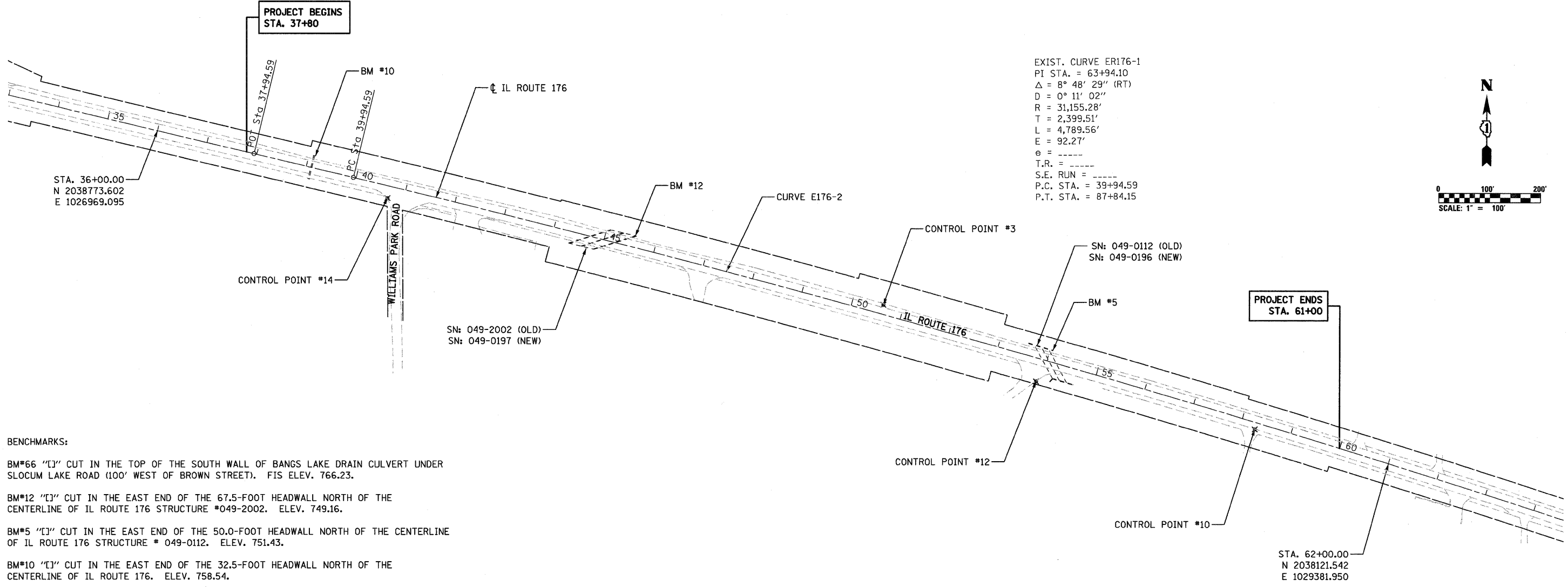
| EARTHWORK SCHEDULE | | | | | |
|--|--------|-----------|---------|---------|---------|
| ITEM (CY) | TOTAL | PRE-STAGE | STAGE 1 | STAGE 2 | STAGE 3 |
| EARTH EXCAVATION | 7,982 | 1,116 | 1,989 | 1,677 | 3,200 |
| ADJUSTED EARTH EXCAVATION * | 6,784 | 948 | 1,691 | 1,425 | 2,720 |
| FILL REQUIRED * | 12,665 | 209 | 5,919 | 5,804 | 733 |
| FURNISHED EXCAVATION * | 7,868 | 0 | 3,489 | 4,379 | 0 |
| EARTHWORK BALANCE EXCESS (+) OR SHORTAGE (-) | -5,881 | +739 | -4,228 | -4,379 | +1,987 |

- *NOTES:
 1. SHRINKAGE CALCULATED USING 15% SHRINKAGE FACTOR.
 2. FURNISHED EXCAVATION IS FILL MINUS ANY EXCESS EARTHWORK FROM PREVIOUS STAGE.
 3. EXCESS EARTHWORK IN STAGE 3 CANNOT BE USED IN PREVIOUS STAGES.

| TRAFFIC BARRIER TERMINAL, TYPE 2 | | | | | | |
|----------------------------------|----------|----------|----|----------|----------|------|
| STRUCTURE NUMBER | STATION | OFFSET | TO | STATION | OFFSET | EACH |
| SN 049-0197 | 53+88.11 | 51.7' RT | TO | 53+96.12 | 42.1' RT | 1 |
| SN 049-0196 | 42+00.11 | 20.5' RT | TO | 42+07.61 | 28.7' RT | 1 |
| TOTAL: | | | | | | 2 |

| REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SCHEDULE | |
|--|-------|
| LOCATION | DEPTH |
| STA 39+50 TO STA 42+50 | 9" |
| STA 51+00 TO STA 53+65 | 2' |
| STA 58+00 TO STA 60+00 | 9" |

| TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL, TANGENT | | | | | | |
|--|-------------|----------|----------|----------|----------|----------|
| STRUCTURE NUMBER | STATION | OFFSET | TO | STATION | OFFSET | EACH |
| SN 049-0197 | 39+57.01 | 21.5' RT | TO | 40+07.02 | 20.5' RT | 1 |
| | 40+07.02 | 20.5' RT | TO | 40+57.05 | 21.5' RT | 1 |
| | 41+37.61 | 20.5' RT | TO | 41+87.61 | 20.5' RT | 1 |
| | 42+67.50 | 20.5' RT | TO | 43+17.50 | 20.5' RT | 1 |
| | 43+44.00 | 20.5' LT | TO | 43+94.00 | 20.5' LT | 1 |
| | 46+05.00 | 20.5' RT | TO | 46+55.00 | 20.5' RT | 1 |
| | 47+94.00 | 20.5' LT | TO | 48+44.00 | 20.5' LT | 1 |
| | 50+87.00 | 20.5' RT | TO | 51+37.00 | 20.5' RT | 1 |
| | 51+50.00 | 20.5' LT | TO | 52+00.00 | 20.5' LT | 1 |
| | SN 049-0196 | 52+74.50 | 20.5' RT | TO | 53+24.50 | 20.5' RT |
| 55+87.50 | | 20.5' LT | TO | 56+37.50 | 20.5' LT | 1 |
| 56+00.00 | | 20.5' RT | TO | 56+50.00 | 20.5' RT | 1 |
| TOTAL: | | | | | | 12 |



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| DESIGNED | ADW | REVISED | - |
| DRAWN | ADW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

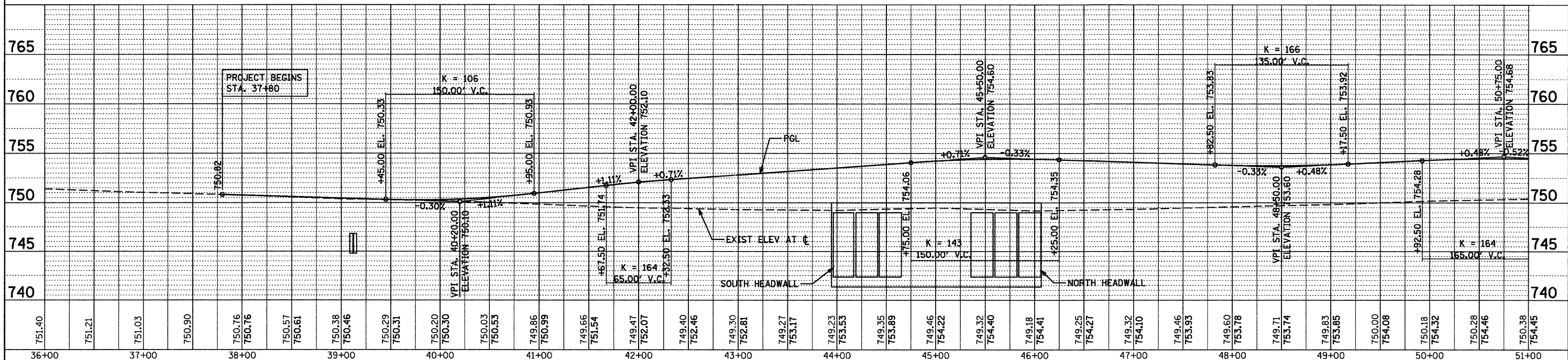
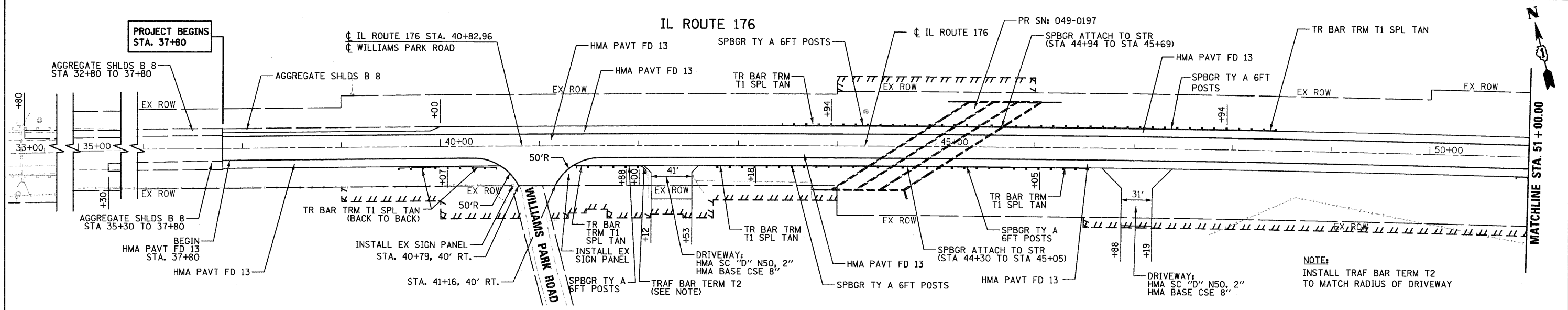
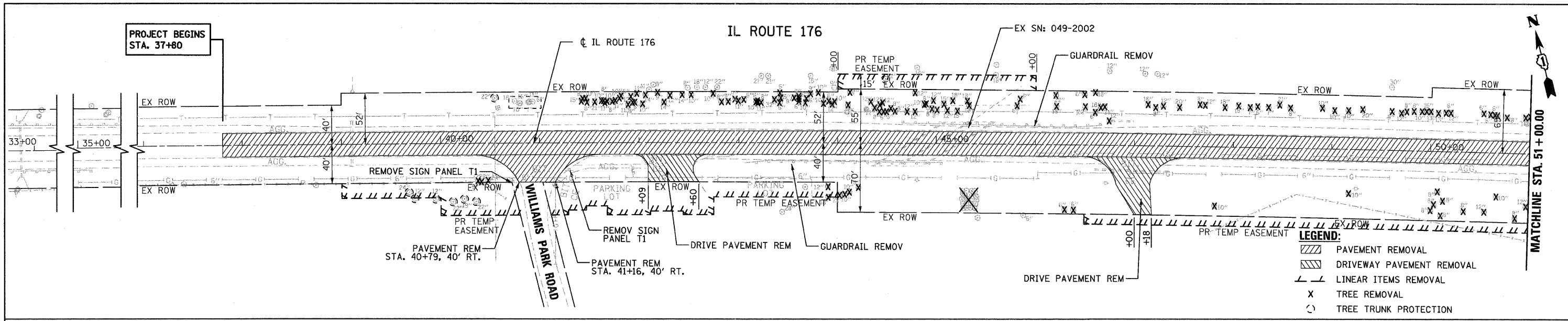
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=100' SHEET NO. 1 OF 1 SHEETS STA. 37+80 TO STA. 61+00

| | | | | |
|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 9 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

| | | |
|------|-----------|------|
| PLAN | REVISIONS | DATE |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
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| NO. | BY | DA. |
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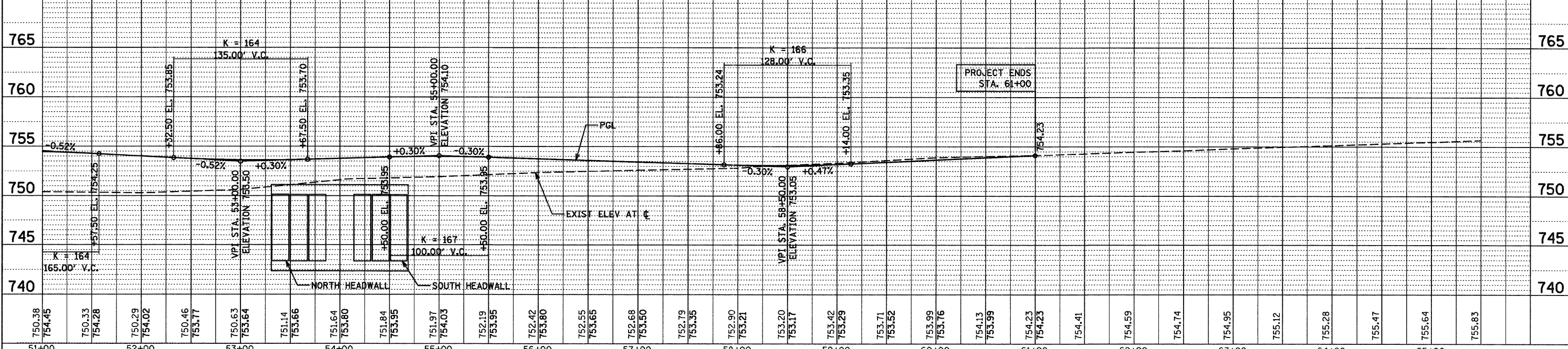
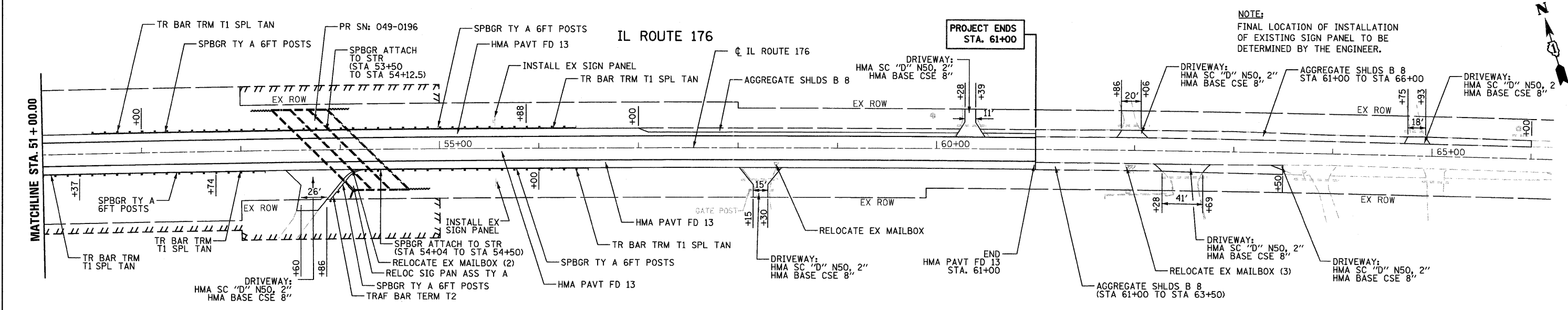
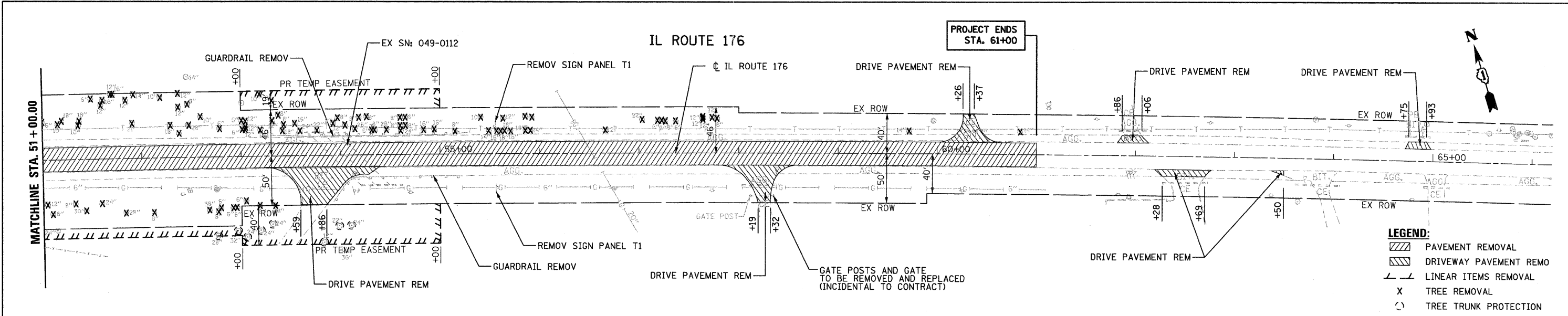
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|--|----------------|-------------|---|--------------------|-----------------|---------------------------|-----------------|--------------|
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| | DRAWN GEW | REVISIONS - | | | | | | |
| | CHECKED RJD | REVISIONS - | | | | | | |
| | DATE 9/14/2011 | REVISIONS - | | | | | | |
| | | | | CONTRACT NO. 62187 | | ILLINOIS FED. AID PROJECT | | |

| | | |
|------|-----------|------|
| PLAN | REVISIONS | DATE |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |

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|---------|-----------|------|
| PROFILE | REVISIONS | DATE |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |
| NO. | BY | DA. |



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| DATE 9/14/2011 | CHECKED RJD | REVISIONS - | | SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | | CONTRACT NO. 62187 | |
| | DATE 9/14/2011 | REVISIONS - | | STA. 51+00 TO STA. 61+00 | | ILLINOIS FED. AID PROJECT | | |
| | | | | | | | | |
| | | | | | | | | |

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MOT PLANS.
3. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
4. ALL VEHICLES, EQUIPMENT, WORKERS, AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
5. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "PAVEMENT MARKING REMOVAL".
6. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING. REMOVAL OF TEMPORARY PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "WORK ZONE PAVEMENT MARKING REMOVAL".
7. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS, OR HIGHWAY STANDARD SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION OR AS DIRECTED BY THE ENGINEER.
8. ALL DRUMS, VERTICAL PANELS, AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURNING MONODIRECTIONAL LIGHTS.
9. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH, "CHANGEABLE MESSAGE SIGN".
11. ALL TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "TEMPORARY INFORMATION SIGNING".
12. HIGH-INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK ZONE DURING HOURS OF DARKNESS AND INSTALLED ABOVE THE FIRST TWO SIGNS IN EACH SERIES.
13. ALL HIGHWAY TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
14. TEMPORARY ACCESS TO WILLIAMS PARK ROAD SHALL BE PAID FOR AS "TEMPORARY ACCESS (ROAD)". TEMPORARY ACCESS TO ALL OTHER ENTRANCES SHALL BE PAID FOR AS "TEMPORARY ACCESS (COMMERCIAL ENTRANCE)".
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CONSTRUCTION TO MAINTAIN SAFE TRAFFIC FLOW THROUGH ALL CONSTRUCTION STAGES.
16. TRAFFIC CONTROL DEVICES SHALL NOT IMPAIR THE DESIGNATED PEDESTRIAN MOVEMENT AROUND THE CONSTRUCTION AREA.
17. ALL HOT-MIX ASPHALT SURFACE COURSE (MAINLINE AND SHOULDER PAVEMENTS) SHALL NOT BE PLACED FOR A MINIMUM OF SIXTY (60) DAYS AFTER PLACEMENT OF BINDER COURSE FOR THE PAVEMENT AND SHOULDER NORTH OF THE IL ROUTE 176 CENTERLINE, AND A MINIMUM OF THIRTY (30) DAYS FOR THE MAINLINE AND SHOULDER PAVEMENTS SOUTH OF THE IL ROUTE 176 CENTERLINE.
18. ANY SETTLEMENT DIFFERENCE OF HOT-MIX ASPHALT BINDER COURSE LAYERS SHALL BE MADE UP WITH HOT-MIX ASPHALT SURFACE COURSE AND SHALL BE PAID FOR IN TON PER THE PAY ITEM "POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90".

SUGGESTED CONSTRUCTION SEQUENCING

PRE-STAGE

CONSTRUCTION:

REMOVE EXISTING AGGREGATE SHOULDER AND TREES ALONG THE SOUTH SIDE OF IL ROUTE 176 AS REQUIRED TO CONSTRUCT THE TEMPORARY PAVEMENT.
CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHES ALONG THE SOUTH SIDE OF IL ROUTE 176.

MAINTENANCE OF TRAFFIC:

MAINTAIN EXISTING TRAFFIC CONFIGURATION UTILIZING STANDARDS 701001-02, 701006-03, 701201-04, AND 701326-04; AND AS DIRECTED BY THE ENGINEER.

STAGE 1

CONSTRUCTION:

INSTALL TEMPORARY SOIL RETENTION SYSTEM PER DETAILS SHOWN ON THE PLANS.
CONSTRUCT SHOULDER (BINDER COURSE) AND PORTION OF PAVEMENT (BINDER COURSE) NORTH OF CENTERLINE OF IL ROUTE 176.
CONSTRUCT TEMPORARY PAVEMENT TO BE USED IN STAGES 2A AND 2B.

MAINTENANCE OF TRAFFIC:

SHIFT IL ROUTE 176 TRAFFIC TO THE TEMPORARY TRAFFIC LANES SOUTH OF IL ROUTE 176 CENTERLINE PER DETAILS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE 2A

CONSTRUCTION:

REMOVE TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF IL ROUTE 176.
INSTALL TEMPORARY SOIL RETENTION SYSTEM NEXT TO COMMERCIAL ENTRANCES PER DETAILS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
CONSTRUCT TEMPORARY ACCESS (COMMERCIAL ENTRANCE) PER DETAILS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
CONSTRUCT PAVEMENT (BINDER COURSE), SHOULDER (BINDER COURSE) AND DITCHES SOUTH OF IL ROUTE 176 CENTERLINE.
CONSTRUCT PORTION OF PAVEMENT (BINDER COURSE) NORTH OF IL ROUTE 176 CENTERLINE.

MAINTENANCE OF TRAFFIC:

SHIFT IL ROUTE 176 TRAFFIC TO THE TEMPORARY TRAFFIC LANES NORTH OF IL ROUTE 176 CENTERLINE PER DETAILS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE 2B

CONSTRUCTION:

REMOVE TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF IL ROUTE 176.
REMOVE TEMPORARY ACCESS (COMMERCIAL ENTRANCE) WITHIN WORK ZONE.
CONSTRUCT PAVEMENT (BINDER COURSE), SHOULDER (BINDER COURSE) AND DITCHES SOUTH OF IL ROUTE 176 CENTERLINE.
CONSTRUCT REMAINING PORTION OF PAVEMENT (BINDER COURSE) NORTH OF IL ROUTE 176 CENTERLINE.

MAINTENANCE OF TRAFFIC:

MAINTAIN IL ROUTE 176 TRAFFIC ON THE TEMPORARY TRAFFIC LANES NORTH OF IL ROUTE 176 CENTERLINE PER DETAILS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE 3

CONSTRUCTION:

REMOVE TEMPORARY PAVEMENT ALONG THE NORTH SIDE OF IL ROUTE 176.
CONSTRUCT SHOULDER (SURFACE COURSE) AND DITCHES NORTH OF IL ROUTE 176 CENTERLINE.

MAINTENANCE OF TRAFFIC:

MAINTAIN EXISTING TRAFFIC CONFIGURATION UTILIZING STANDARDS 701006-03, 701011-02, 701201-04, 701301-04, AND 701326-04; AND AS DIRECTED BY THE ENGINEER.


STAGE 4

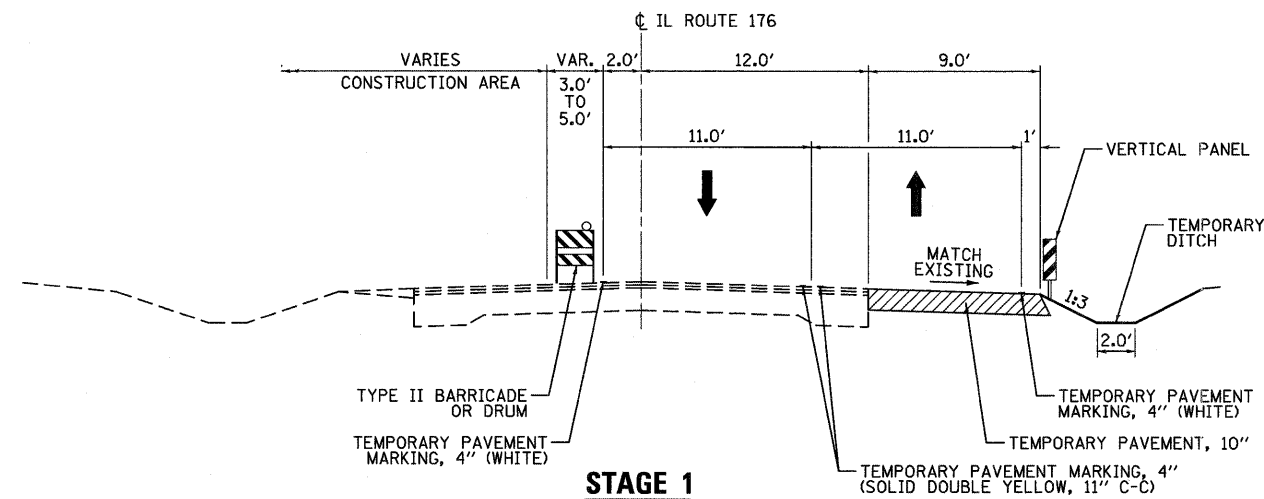
CONSTRUCTION:

PLACE SURFACE COURSE OF HOT-MIX ASPHALT PAVEMENT.
INSTALL PERMANENT PAVEMENT MARKINGS.
INSTALL ALL REMAINING PROJECT ITEMS AS REQUIRED.

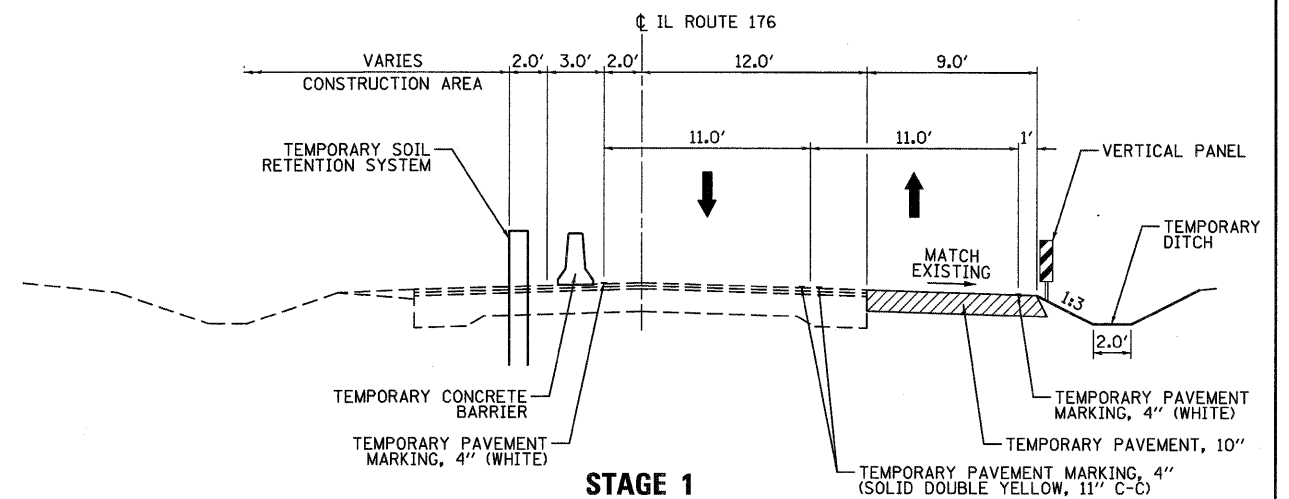
MAINTENANCE OF TRAFFIC:

MAINTAIN EXISTING TRAFFIC CONFIGURATION UTILIZING STANDARDS 701006-03, 701011-02, 701201-04, 701301-04, AND 701326-04; AND AS DIRECTED BY THE ENGINEER.

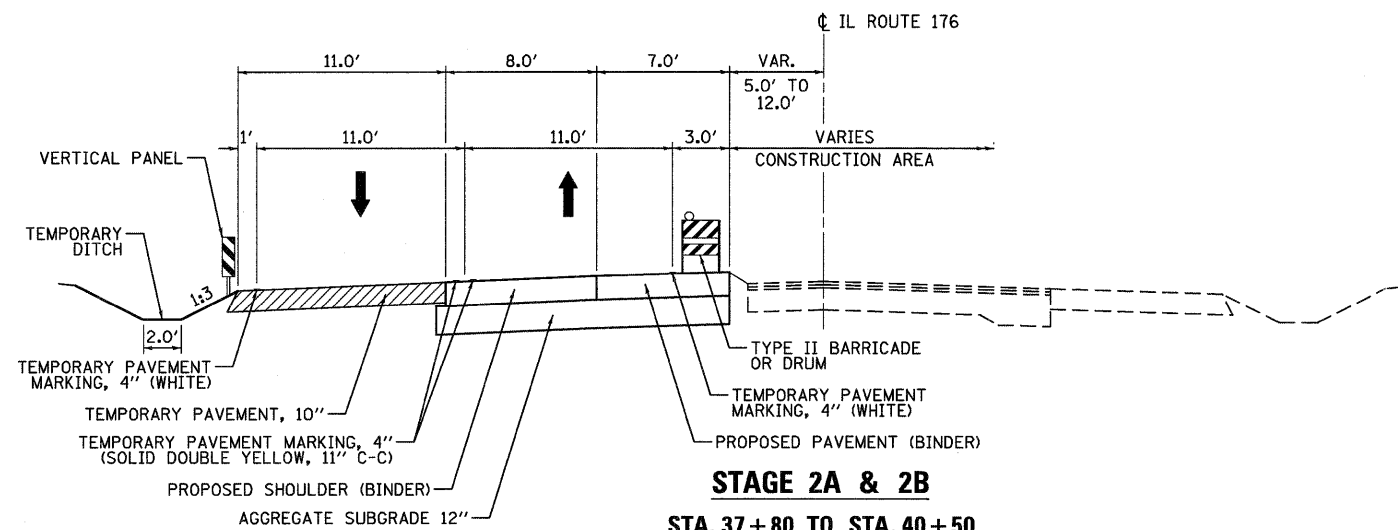
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| | | | | | SCALE: N/A | SHEET NO. 1 OF 8 SHEETS | | STA. | TO STA. | | | |



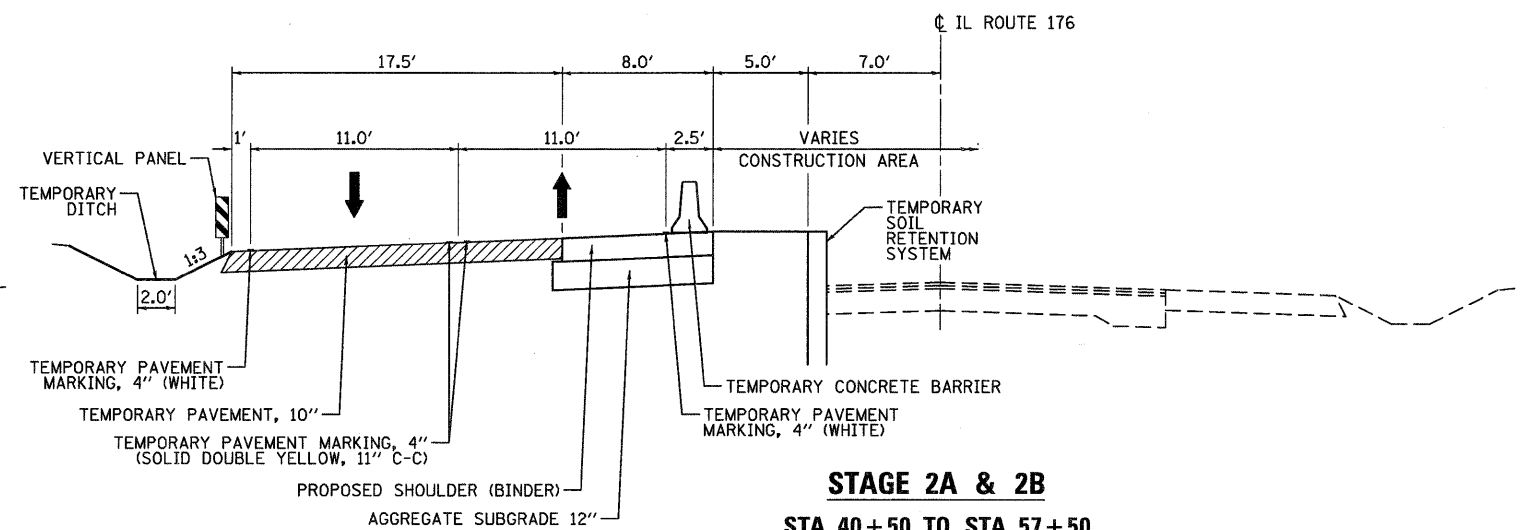
STAGE 1
 STA. 37+80 TO STA. 40+50
 STA. 57+50 TO STA. 61+00



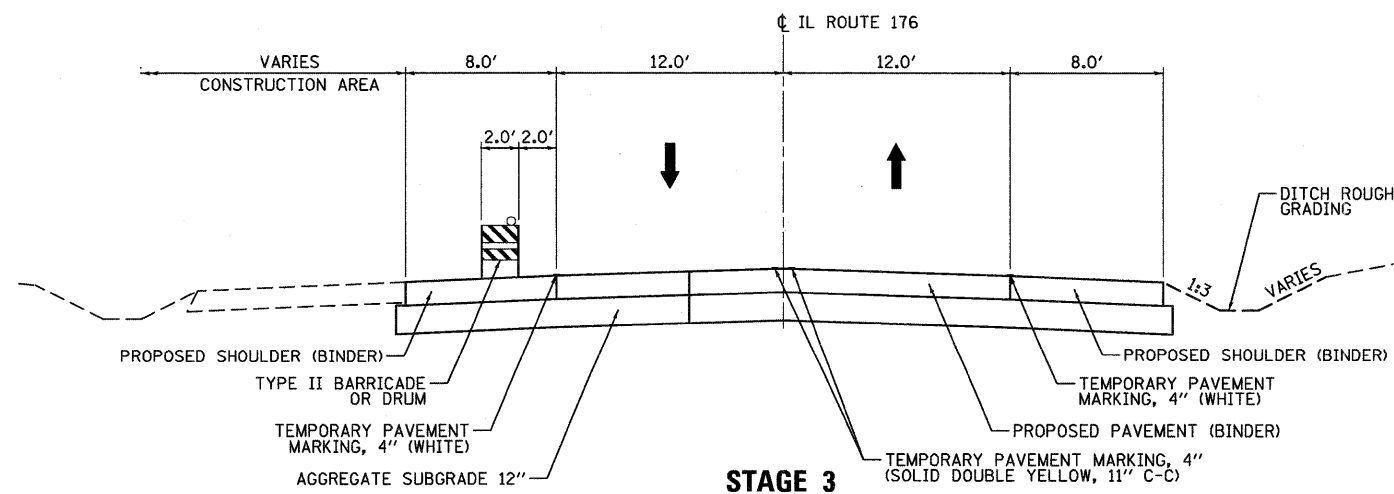
STAGE 1
 STA. 40+50 TO STA. 57+50



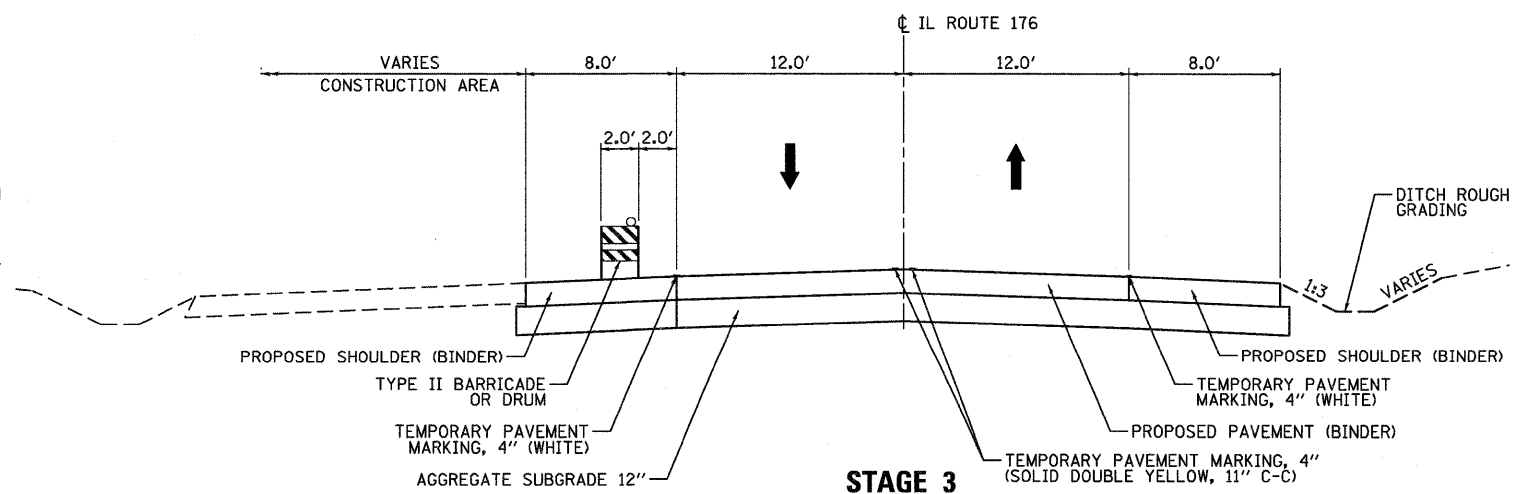
STAGE 2A & 2B
 STA. 37+80 TO STA. 40+50
 STA. 57+50 TO STA. 61+00



STAGE 2A & 2B
 STA. 40+50 TO STA. 57+50



STAGE 3
 STA. 37+80 TO STA. 40+50
 STA. 57+50 TO STA. 61+00



STAGE 3
 STA. 40+50 TO STA. 57+50

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DESIGNED ADW
 DRAWN GEW
 CHECKED RJD
 DATE 9/14/2011

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

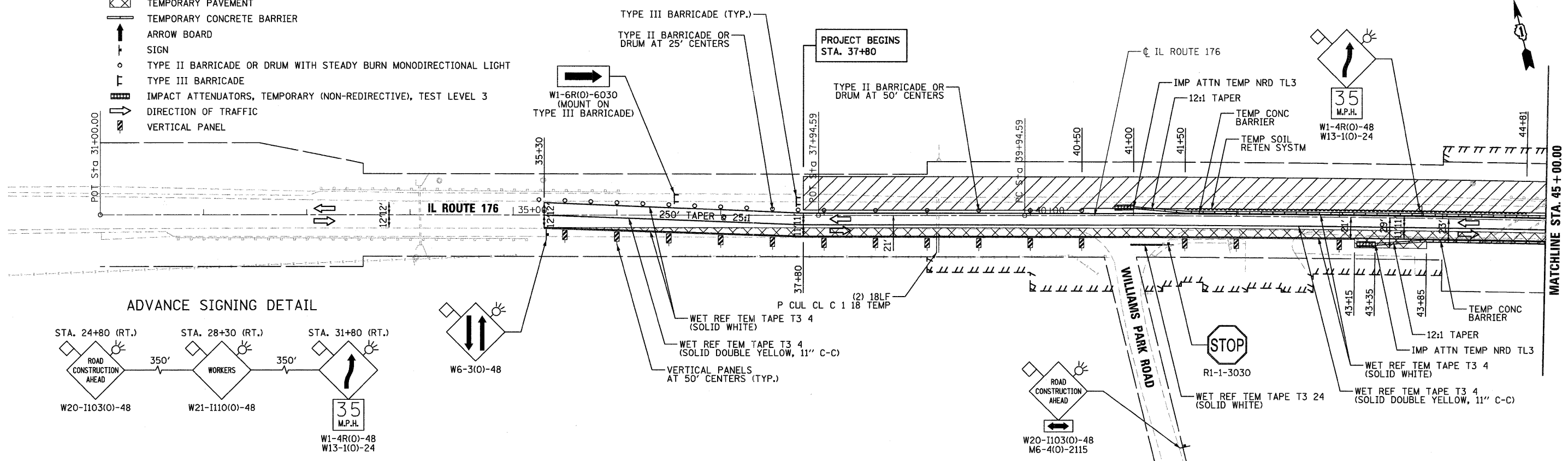
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 MAINTENANCE OF TRAFFIC
 TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. 2 OF 8 SHEETS STA. TO STA.

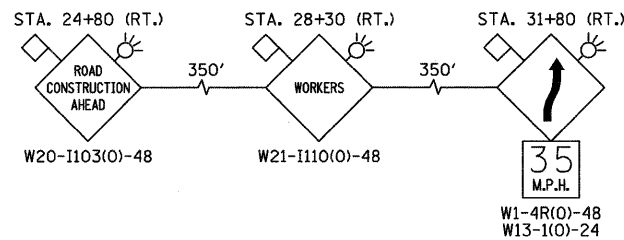
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| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 13 |
| | | | CONTRACT NO. 62187 | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL

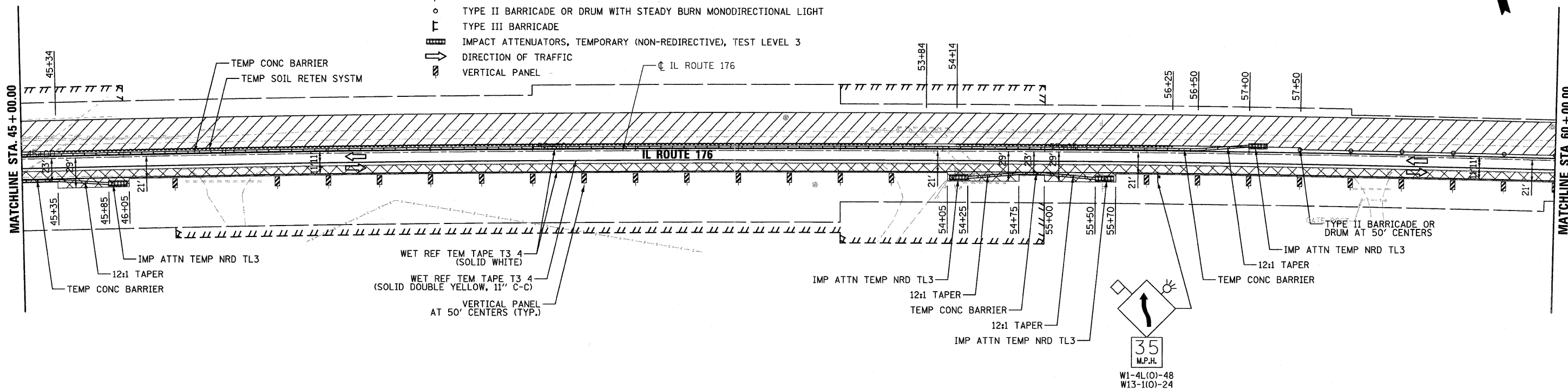


ADVANCE SIGNING DETAIL



LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL



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| DATE | 9/14/2011 | REVISED | - |











STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
MAINTENANCE OF TRAFFIC PLAN
STAGE 1

SCALE: 1"=50' SHEET NO. 3 OF 8 SHEETS STA. 35+30 TO STA. 60+00

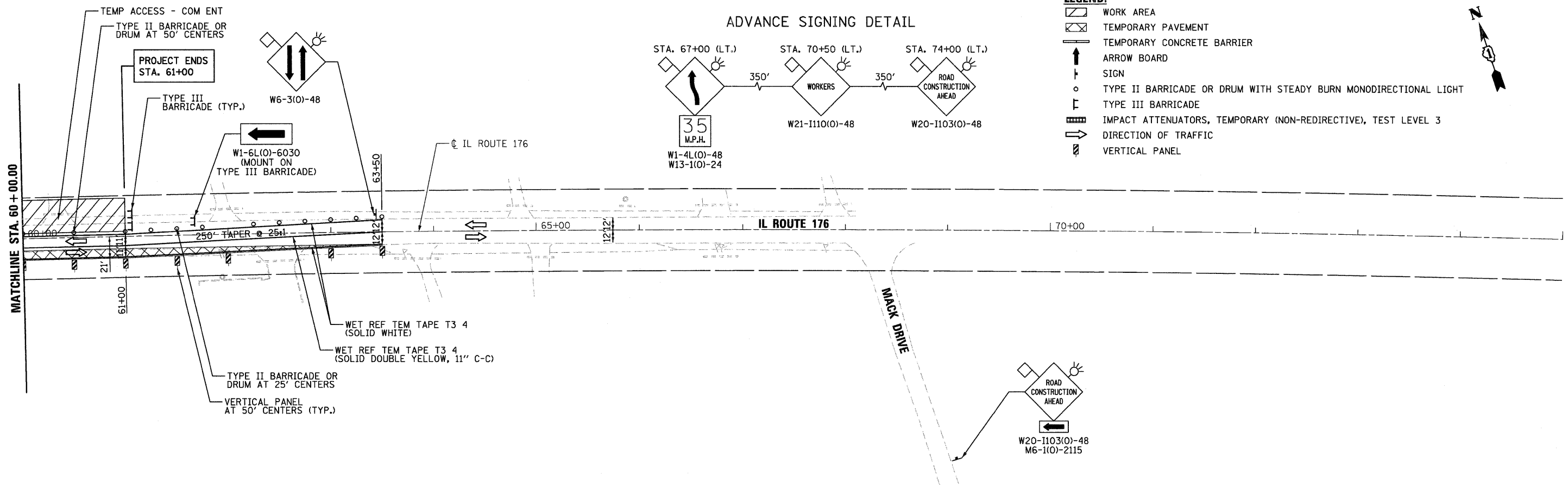
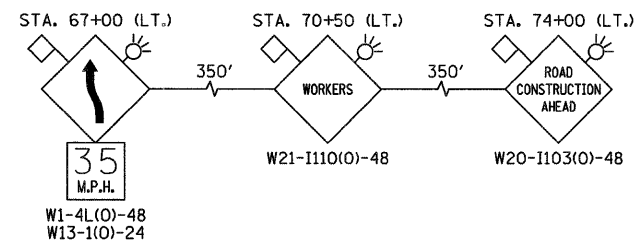
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 14 |
| | | | CONTRACT NO. 62187 | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

-  WORK AREA
-  TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  ARROW BOARD
-  SIGN
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAFFIC
-  VERTICAL PANEL



ADVANCE SIGNING DETAIL



FILE NAME =
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| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

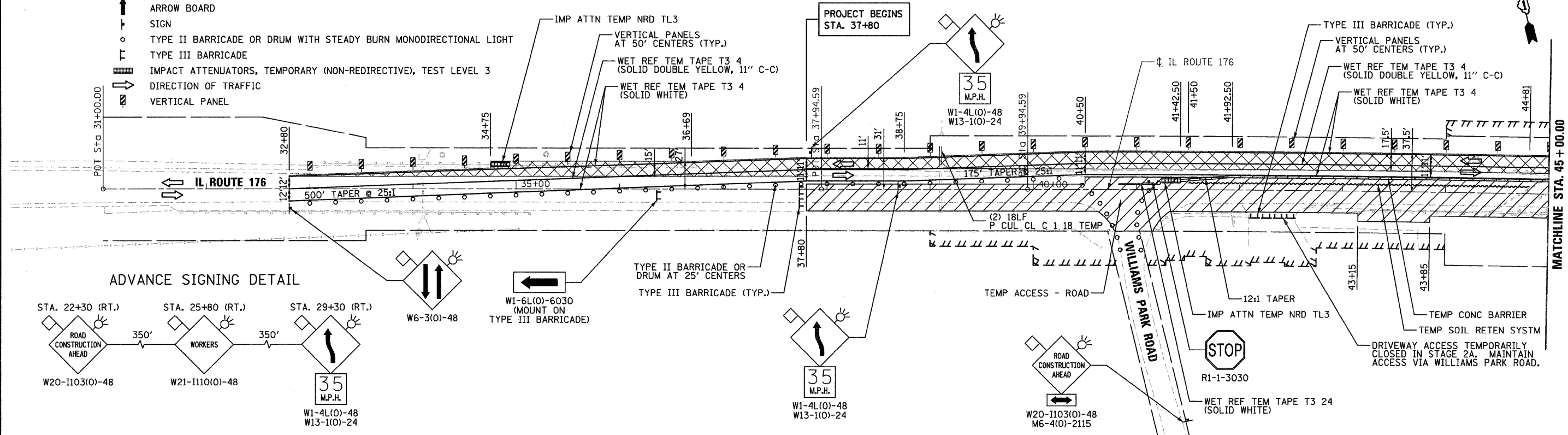
**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
MAINTENANCE OF TRAFFIC PLAN
STAGE 1**

SCALE: 1"=50' SHEET NO. 4 OF 8 SHEETS STA. 60+00 TO STA. 63+50

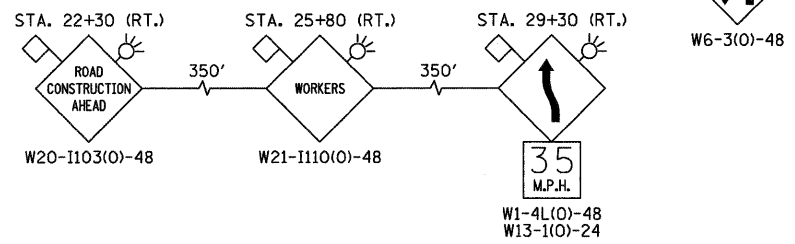
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 15 |
| | | | CONTRACT NO. 62187 | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL



ADVANCE SIGNING DETAIL

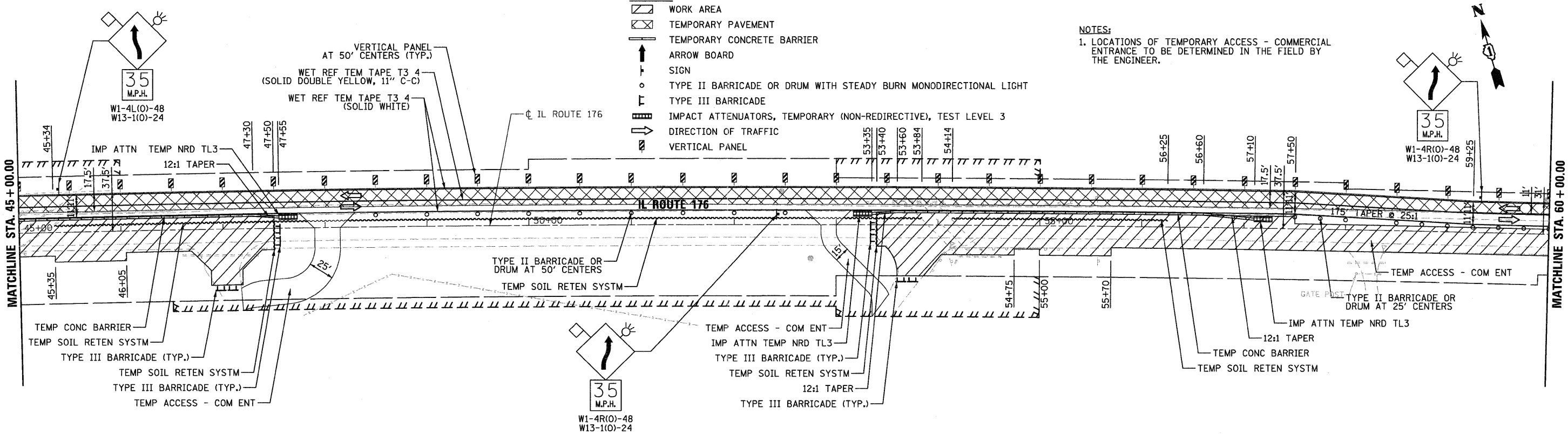


LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL

NOTES:

1. LOCATIONS OF TEMPORARY ACCESS - COMMERCIAL ENTRANCE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FILE NAME = ...\\D162187-aht-staging2A-01.dgn



| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |











STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
MAINTENANCE OF TRAFFIC PLAN
STAGE 2A

SCALE: 1"=50' SHEET NO. 5 OF 8 SHEETS STA. 32+80 TO STA. 60+00

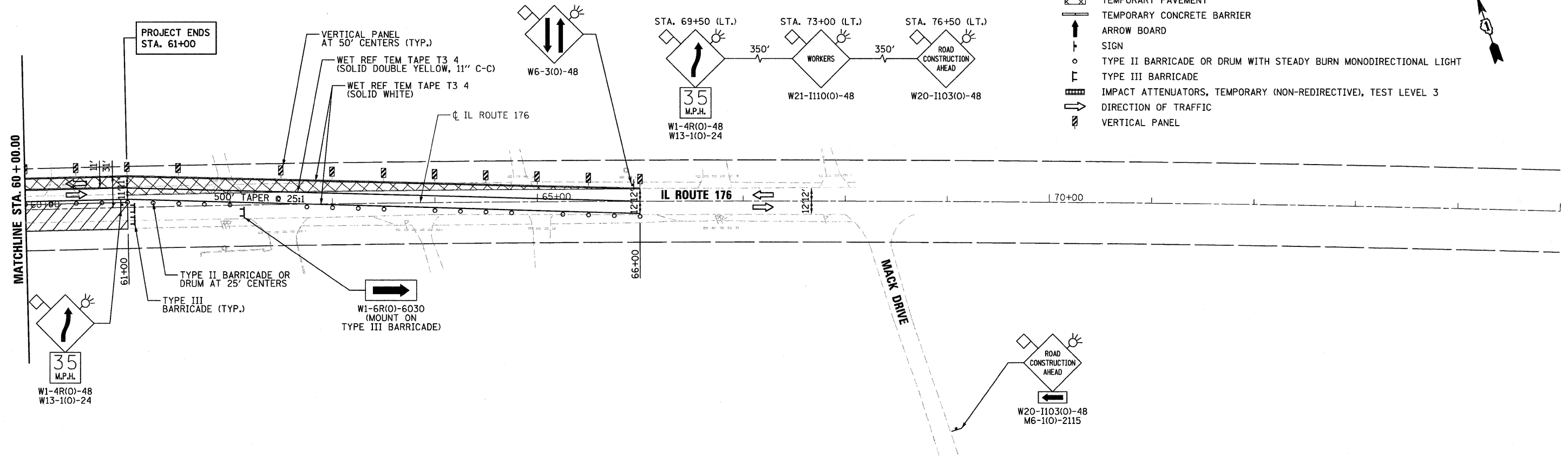
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|--------------------|
| 335 | 145 X-T | LAKE | 80 | 16 |
| | | | | CONTRACT NO. 62187 |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

-  WORK AREA
-  TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  ARROW BOARD
-  SIGN
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAFFIC
-  VERTICAL PANEL



ADVANCE SIGNING DETAIL



FILE NAME = ...\\D162187-shit-staging2A.02.dgn



| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

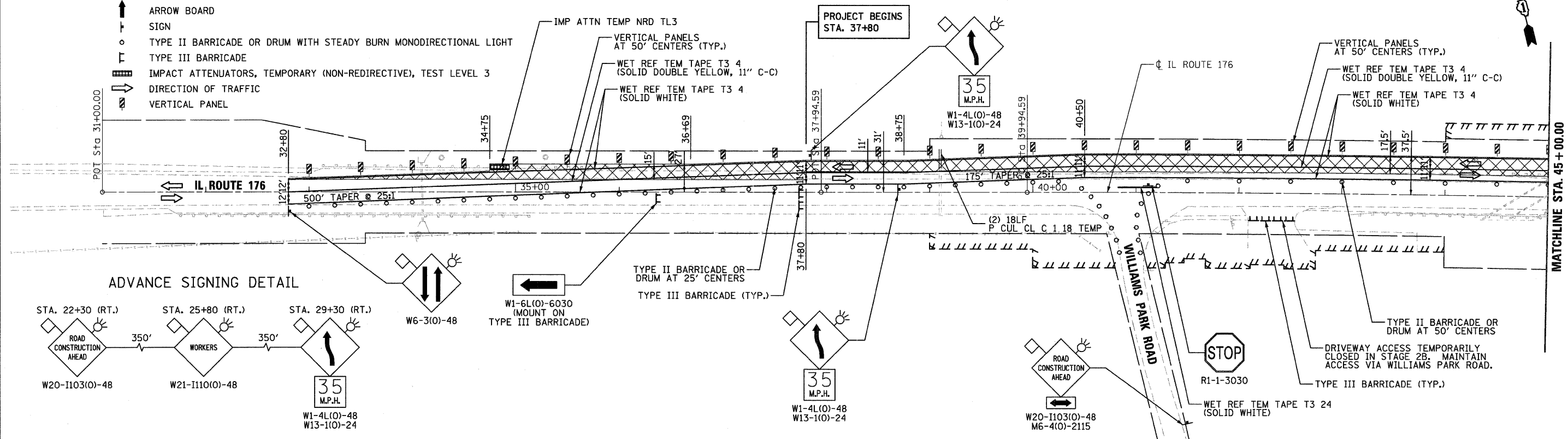
**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
MAINTENANCE OF TRAFFIC PLAN
STAGE 2A**

SCALE: 1"=50' SHEET NO. 6 OF 8 SHEETS STA. 60+00 TO STA. 66+00

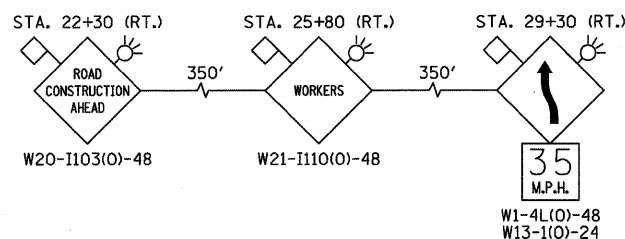
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 17 |
| | | | CONTRACT NO. 62187 | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL

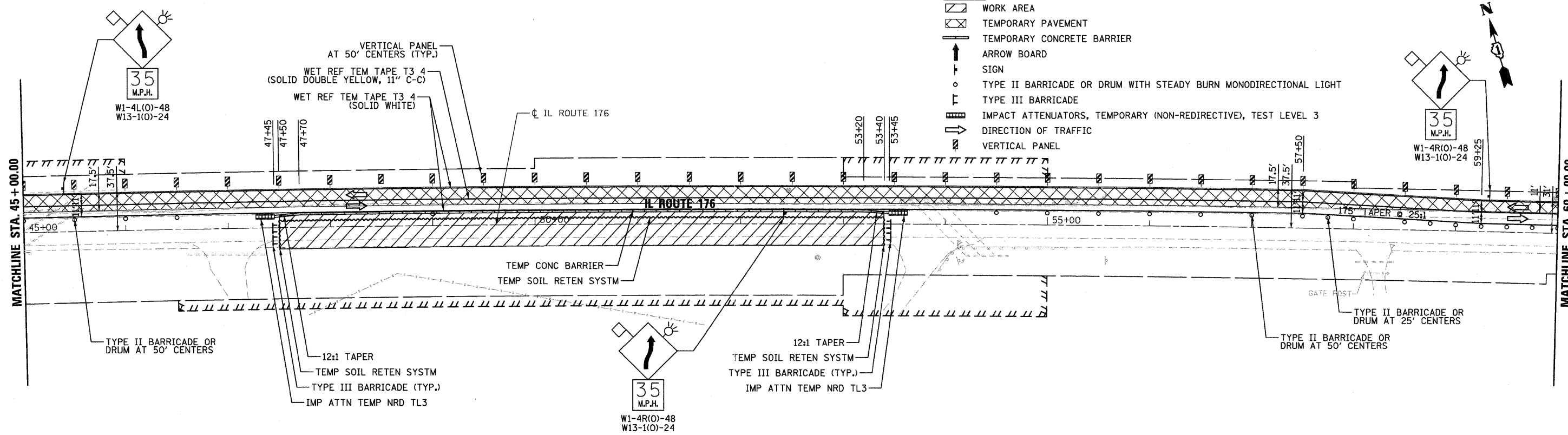


ADVANCE SIGNING DETAIL



LEGEND:

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- ARROW BOARD
- SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- DIRECTION OF TRAFFIC
- VERTICAL PANEL



FILE NAME = ...\\0162197-sht-staging28_01.dgn



DESIGNED ADW
 DRAWN GEW
 CHECKED RJD
 DATE 9/14/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -











STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 MAINTENANCE OF TRAFFIC PLAN
 STAGE 2B

SCALE: 1"=50' SHEET NO. 7 OF 8 SHEETS STA. 32+80 TO STA. 60+00

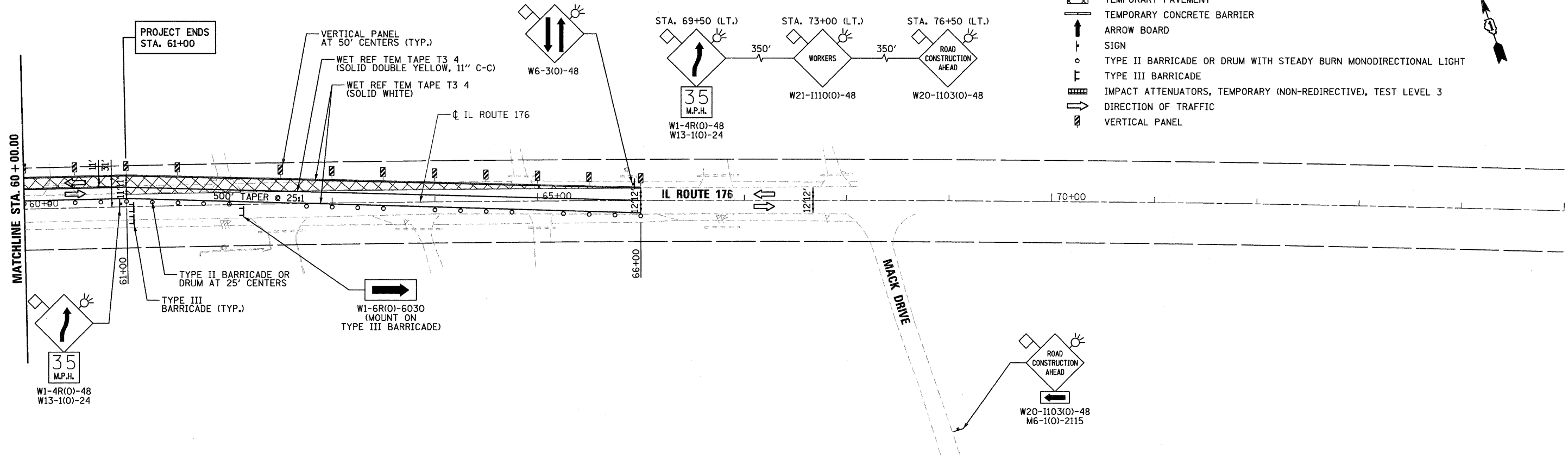
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|---------------------------|-----------------|-------------|-----------------|--------------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 18 |
| | | | | CONTRACT NO. 62187 |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND:

-  WORK AREA
-  TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  ARROW BOARD
-  SIGN
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  DIRECTION OF TRAFFIC
-  VERTICAL PANEL



ADVANCE SIGNING DETAIL



FILE NAME = ...\\D162187-sht-staging28_82.dgn



| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
MAINTENANCE OF TRAFFIC PLAN
STAGE 2B**

SCALE: 1"=50' SHEET NO. 8 OF 8 SHEETS STA. 60+00 TO STA. 66+00

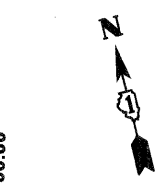
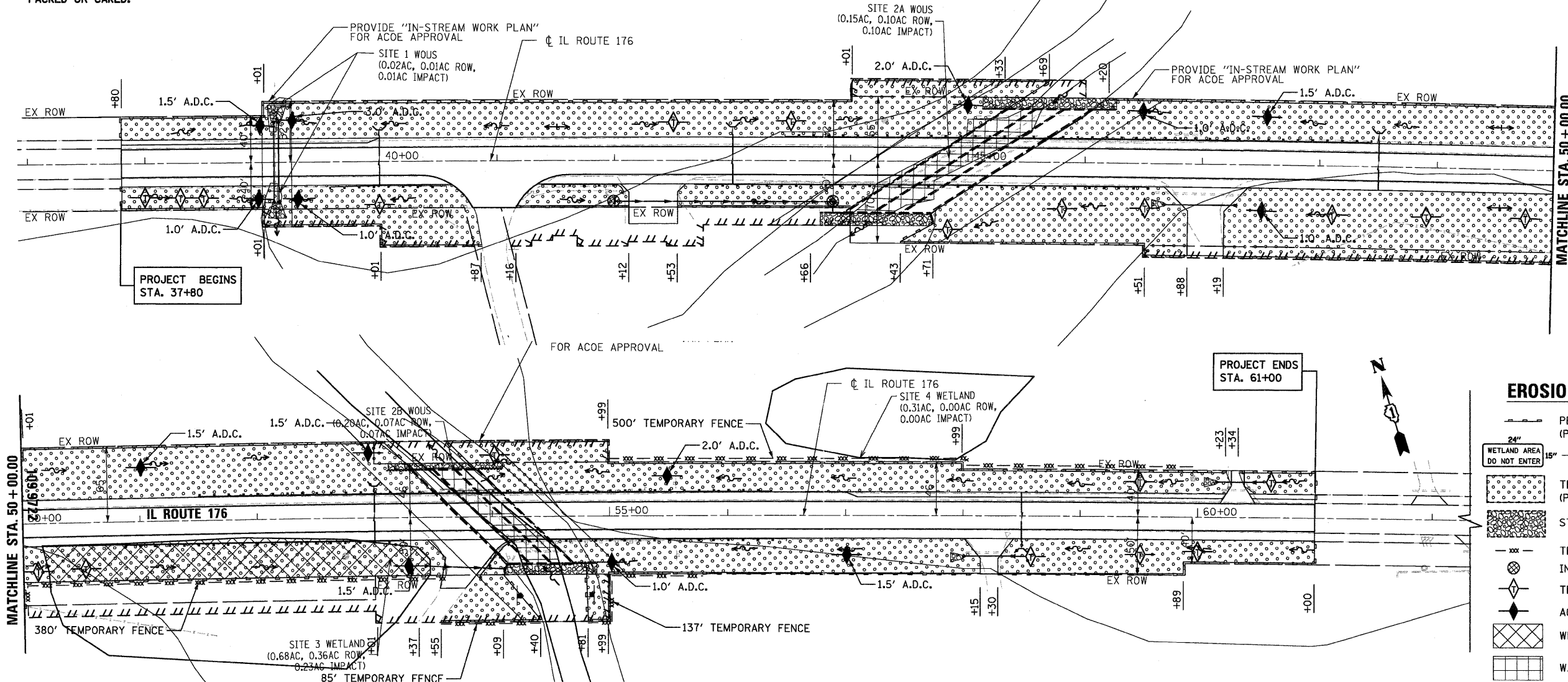
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|--------------------|
| 335 | 145 X-T | LAKE | 80 | 19 |
| | | | | CONTRACT NO. 62187 |
| ILLINOIS FED. AID PROJECT | | | | |

EROSION CONTROL NOTES

1. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
3. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
4. THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.
5. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.
6. INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES.
7. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS EVERY 7 DAYS AFTER THE EARTH IS EXPOSED. APPLICATION RATE USED: 100 LB/ACRE
8. BROADCASTING OF THE SEED BY MACHINE, HAND METHODS, HYDRAULIC SEEDING OR OTHER METHODS APPROVED BY THE ENGINEER WILL BE ALLOWED FOR TEMPORARY EROSION CONTROL SEEDING.
9. TOPSOIL AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING.
10. SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD PACKED OR CAKED.

11. MULCH WILL NOT BE REQUIRED TO BE PLACED ON TEMPORARY EROSION CONTROL SEEDING THAT HAS BEEN PLACED ON AREAS WITH SLOPES FLATTER THAN 1:3 (V:H) THAT ARE TEMPORARY SEEDED BEFORE NOVEMBER 2.
12. EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENT OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON AREAS WITH SLOPES STEEPER THAN 1:3 (V:H) THAT ARE TEMPORARY SEEDED BEFORE NOVEMBER 2.
13. EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON ALL AREAS THAT ARE TEMPORARY SEEDED ON OR AFTER NOVEMBER 2.
14. ALL TEMPORARY INFORMATION SIGNS, PERIMETER EROSION BARRIER AND TEMPORARY FENCE SHALL BE INSTALLED WITHIN THE TEMPORARY EASEMENT, PROPOSED RIGHT-OF-WAY OR EXISTING RIGHT-OF-WAY.
15. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
16. THE CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER PRIOR TO STRIPPING VEGETATION.
17. TEMPORARY DITCH CHECKS AND INLET FILTERS SHALL BE INSTALLED IMMEDIATELY AFTER DISTURBANCE.
18. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AT ALL TIMES. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED BY QUALIFIED PERSONNEL AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
19. THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND THE ILLINOIS URBAN MANUAL, PRACTICE STANDARD, DEWATERING CODE 813 SHALL BE FOLLOWED WHEN DEWATERING THE CONSTRUCTION SITE.

20. ALL DITCHES THAT RECEIVE TEMPORARY EROSION CONTROL SEEDING SHALL ALSO RECEIVE EROSION CONTROL BLANKET A DISTANCE 1.0' HIGHER THAN BOTTOM OF THE DITCH..
21. AS SHOWN ON THE PLANS, THE CONTRACTOR SHALL INSTALL TEMPORARY INFORMATION SIGNING (FOR WETLAND AREAS) AT EACH WETLAND AREA. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT (847) 705-4171. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
22. THE CONTRACTOR WILL PROVIDE AN IN-STREAM WORK PLAN FOR REVIEW BY THE RE, AND WRITTEN APPROVAL BY THE USACE, PRIOR TO STARTING ANY WORK WITHIN THE IN-STREAM WORK AREA. THE 2-YEAR FLOW RATE FOR BANGS LAKE DRAINAGE DITCH IS 340 CFS.
23. THE USE OF HAY OR STRAW BALES FOR ANY EROSION AND SEDIMENT CONTROL MEASURES IS NOT PERMITTED.
24. J-HOOKS PER IDOT STANDARD 280001 SHALL BE INSTALLED DURING THE INSTALLATION OF THE PERIMETER EROSION BARRIER.
25. PERMANENT SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL DISTURBED AREAS IMMEDIATELY FOLLOWING FINAL GRADING
26. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER EROSION BARRIER). STOCKPILES TO REMAIN IN PLACE FOR 7 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.
27. STABILIZED CONSTRUCTION EXITS SHALL BE INSTALLED TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PAVED ROADS BY CONSTRUCTION EQUIPMENT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



NOTE:
FLOODWAY AND FLOODPLAIN BOUNDARIES
SCALED FROM FIRM PANEL 17097C0118G
EFFECTIVE DATE: 11/16/2006

| EROSION CONTROL LEGEND | | | | |
|------------------------|--|--|--|--|
| | PERIMETER EROSION BARRIER (PER IDOT STD. 280001 (CURRENT REVISION)) | | | |
| | TEMPORARY INFORMATION SIGNING (FOR WETLAND AREAS) | | | |
| | TEMPORARY EROSION CONTROL SEEDING (PER NOTES 11, 12, 13 AND 20) | | | |
| | STONE RIPRAP CL A4 (TYP) | | | |
| | TEMPORARY FENCE | | | |
| | INLET FILTER | | | |
| | TEMPORARY DITCH CHECK | | | |
| | AGGREGATE DITCH CHECK (A.D.C.) | | | |
| | WETLAND IMPACTS | | | |
| | WATERS OF THE U.S. IMPACTS | | | |

FILE NAME =
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|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|--|--------|-------------------------|--------------------------|
| IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH | | | |
| EROSION AND SEDIMENT CONTROL PLAN | | | |
| SCALE: | 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. 37+80 TO STA. 61+00 |

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 20 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

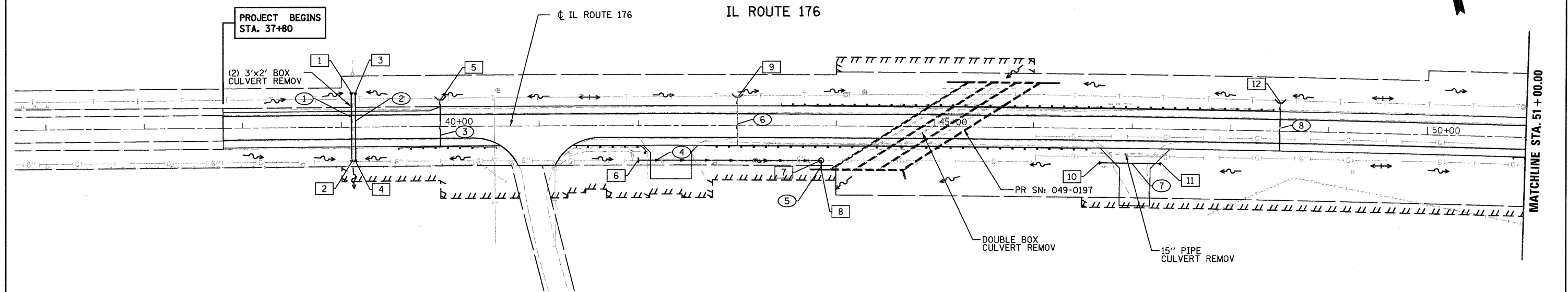
| STRUCTURE TABLE | | | | | | | | | | |
|-----------------|---------|----------|--------|-------|-----|--------|---------|---------|---------|---------|
| NO. | STATION | OFFSET | TYPE | FRAME | FST | RIM | N. INV. | E. INV. | S. INV. | W. INV. |
| 1 | 39+10 | 35.0' LT | ES BOX | -- | -- | -- | 744.80 | | | |
| 2 | 39+10 | 35.0' RT | ES BOX | -- | -- | -- | | | 744.79 | |
| 3 | 39+14 | 35.0' LT | ES BOX | -- | -- | -- | 744.80 | | | |
| 4 | 39+14 | 35.0' RT | ES BOX | -- | -- | -- | | | 744.79 | |
| 5 | 40+00 | 30.0' LT | HWP | -- | -- | -- | 746.80 | | | |
| 6 | 42+00 | 35.0' RT | INL-A | 1-OL | * | 748.75 | | 745.00 | | |
| 7 | 43+85 | 35.0' RT | MH-A4 | 1-OL | * | 747.73 | | | 743.40 | 743.98 |
| 8 | 43+85 | 44.5' RT | RWALL | -- | -- | -- | 743.36 | | | |
| 9 | 43+00 | 32.0' LT | HWP | -- | -- | -- | 749.30 | | | |
| 10 | 46+67 | 35.0' RT | FES 15 | -- | -- | -- | | 748.17 | | |
| 11 | 47+30 | 35.0' RT | FES 15 | -- | -- | -- | | | | 748.80 |
| 12 | 48+50 | 32.0' LT | HWP | -- | -- | -- | 750.25 | | | |

| PIPE TABLE | | | | | | | | | | |
|------------|---------|------------------|--------------------|-------|---------|-------|----------|-------|------|-----|
| NO. | TYPE | UPSTREAM STATION | DOWNSTREAM STATION | MAT. | SIZE | SLOPE | LIN. FT. | TBF | CYD. | |
| 1 | BOX | 39+10 | 35.0 LT | 39+10 | 35.0 RT | BOX | 3'x2' | 0.01% | 66' | 19' |
| 2 | BOX | 39+14 | 35.0 LT | 39+14 | 35.0 RT | BOX | 3'x2' | 0.01% | 66' | 18' |
| 3 | UDR | 40+00 | 20.0 RT | 40+00 | 30.0 LT | PVC | 4" | 1.00% | 47' | -- |
| 4 | SS-T1-A | 42+00 | 35.0 RT | 43+85 | 35.0 RT | RCP | 15" | 0.56% | 182' | -- |
| 5 | SS-T1-A | 43+85 | 35.0 RT | 43+85 | 44.5 RT | RCP | 15" | 0.53% | 8' | -- |
| 6 | UDR | 43+00 | 20.0 RT | 43+00 | 32.0 LT | PVC | 4" | 1.00% | 49' | -- |
| 7 | PC-T1-D | 47+30 | 35.0 RT | 46+67 | 35.0 RT | RCP | 15" | 1.00% | 51' | 12 |
| 8 | UDR | 48+50 | 20.0 RT | 48+50 | 32.0 LT | PVC | 4" | 1.00% | 49' | -- |

* BACKFILL PAID FOR AS POROUS GRANULAR EMBANKMENT, SUBGRADE.

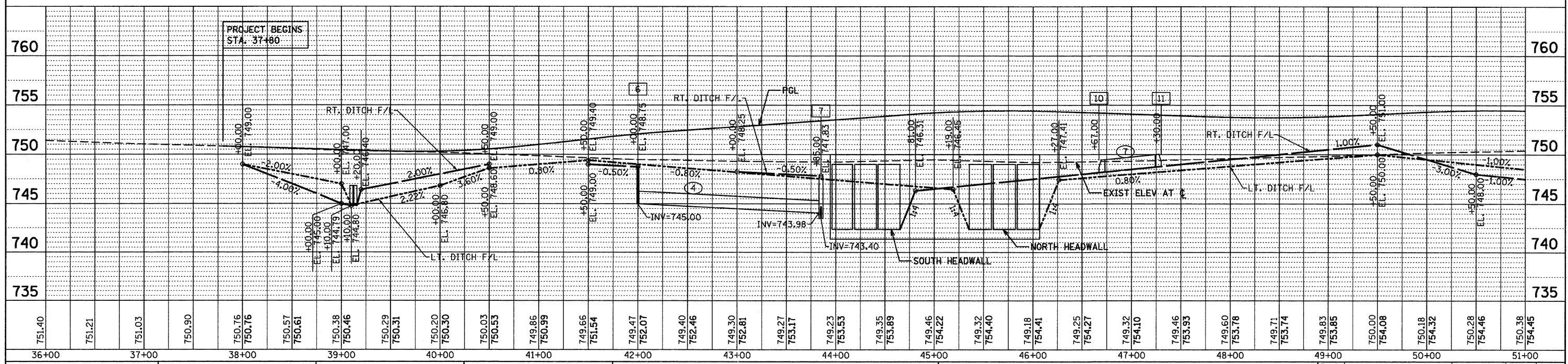
| ABBREVIATIONS | |
|---------------|---|
| INL-A | INLET, TYPE A |
| MH-A* | MANHOLES, TYPE A, *" DIA |
| FES 15 | PRECAST REINFORCED CONCRETE FLARED END SECTION, 15" |
| HWP | CONCRETE HEADWALL FOR PIPE DRAIN |
| ES BOX | PRECAST BOX CULVERT END SECTION, FOR 3'x2' BOX CULVERTS |
| WWALL | PIPE OUTLETS THROUGH WING WALL |
| RWALL | PIPE OUTLETS THROUGH RETAINING WALL |
| 1-OL | FRAMES & LIDS, TYPE 1, OPEN LID |
| FST | PRECAST REINFORCED CONCRETE FLAT SLAB TOP |
| RCP | PRECAST REINFORCED CONCRETE PIPE |
| PVC | PERFORATED POLYVINYL CHLORIDE PIPE |
| BOX | PRECAST CONCRETE BOX CULVERT, 3'x2' |
| SS-T1-A | STORM SEWER, TYPE 1, CLASS A |
| PC-T1-D | PIPE CULVERT, TYPE 1, CLASS D |
| UDR | PIPE UNDERDRAIN |
| TBF | TRENCH BACKFILL |

DATE: _____ BY: _____
 SURVEYED: _____
 PLAN: _____
 NOTE BOOK NO. _____
 CHECKED: _____
 RT. OF WAY CHECKED: _____
 PLOTTED: _____
 STRUCTURE NOTATIONS CHKD: _____



| STORM SEWER KEY | |
|-----------------|---------------------------|
| 10 | DRAINAGE STRUCTURE NUMBER |
| 10 | STORM SEWER NUMBER |

DATE: _____ BY: _____
 SURVEYED: _____
 PROFILE: _____
 NOTE BOOK NO. _____
 CHECKED: _____
 STRUCTURE NOTATIONS CHKD: _____



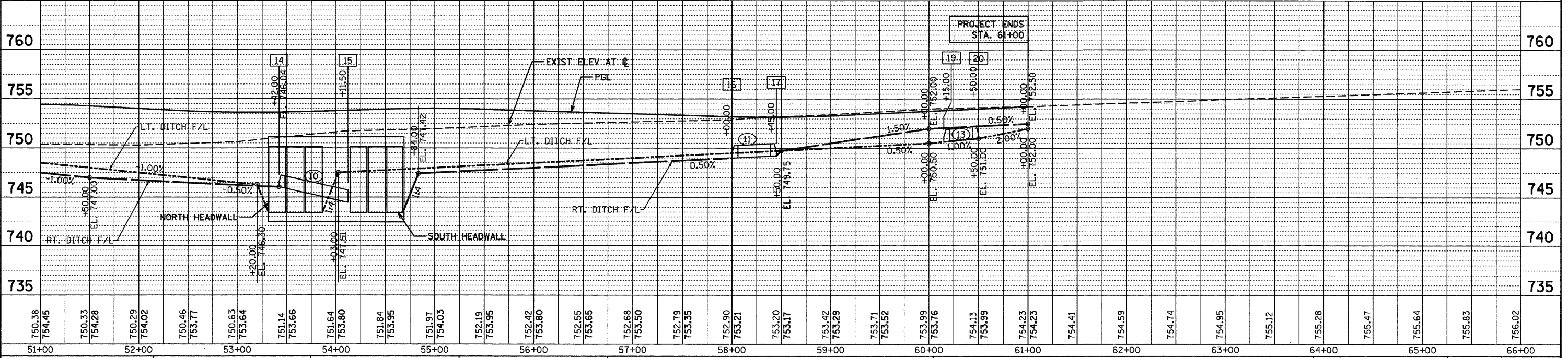
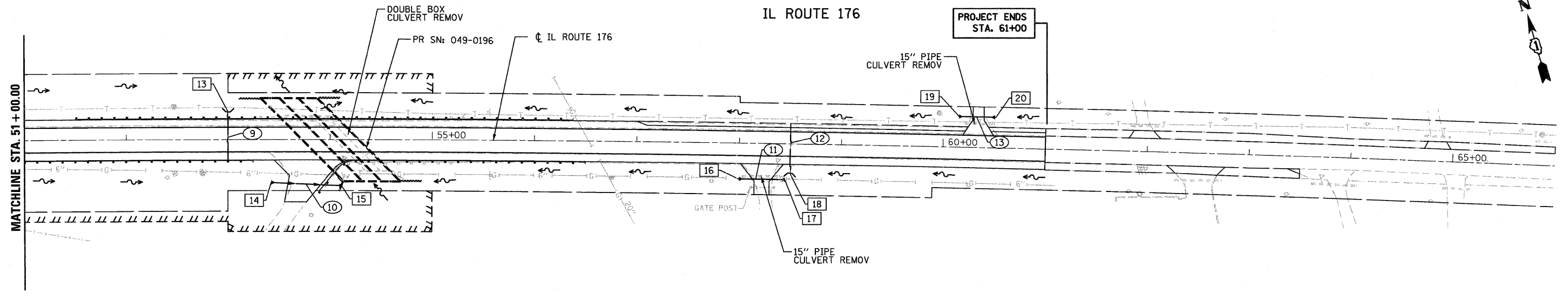
| STRUCTURE TABLE | | | | | | | | | | |
|-----------------|---------|----------|--------|-------|-----|-----|---------|---------|---------|---------|
| NO. | STATION | OFFSET | TYPE | FRAME | FST | RIM | N. INV. | E. INV. | S. INV. | W. INV. |
| 13 | 53+00 | 30.5' LT | HWPD | - | - | - | 750.15 | | | |
| 14 | 53+42 | 42.0' RT | FES 15 | - | - | - | | 748.04 | | |
| 15 | 54+11.5 | 45.0' RT | WWALL | - | - | - | | | | 744.47 |
| 16 | 58+00 | 35.0' RT | FES 15 | - | - | - | | 749.00 | | |
| 17 | 58+45 | 35.0' RT | FES 15 | - | - | - | | | | 749.23 |
| 18 | 58+50 | 32.0' RT | HWPD | - | - | - | | | 749.75 | |
| 19 | 60+15 | 30.0' LT | FES 15 | - | - | - | | 750.65 | | |
| 20 | 60+50 | 30.0' LT | FES 15 | - | - | - | | | | 751.00 |

| PIPE TABLE | | | | | | | | | | |
|------------|---------|------------------|--------------------|-------|---------|-------|----------|-------|------|----|
| NO. | TYPE | UPSTREAM STATION | DOWNSTREAM STATION | MAT. | SIZE | SLOPE | LIN. FT. | TBF | CYD. | |
| 9 | UDR | 53+00 | 20.0 RT | 53+00 | 30.5 LT | PVC | 4" | 1.00% | 47' | - |
| 10 | PC-T1-D | 53+42 | 42.0 RT | 54+12 | 45.0 RT | RCP | 15" | 2.26% | 63' | 13 |
| 11 | PC-T1-D | 58+45 | 35.0 RT | 58+00 | 35.0 RT | RCP | 15" | 0.51% | 33' | 5 |
| 12 | UDR | 58+50 | 20.0 LT | 58+50 | 32.0 RT | PVC | 4" | 1.00% | 49' | - |
| 13 | PC-T1-D | 60+50 | 30.0 LT | 60+15 | 30.0 LT | RCP | 15" | 1.00% | 23' | 2 |

- ABBREVIATIONS**
- INL-A INLET, TYPE A
 - MH-A* MANHOLES, TYPE A, #' DIA
 - FES 15 PRECAST REINFORCED CONCRETE FLARED END SECTION, 15"
 - HWPD CONCRETE HEADWALL FOR PIPE DRAIN
 - ES BOX PRECAST BOX CULVERT END SECTION, FOR 3'x2' BOX CULVERTS
 - WWALL PIPE OUTLETS THROUGH WING WALL
 - RWall PIPE OUTLETS THROUGH RETAINING WALL
 - 1-OL FRAMES & LIDS, TYPE 1, OPEN LID
 - FST PRECAST REINFORCED CONCRETE FLAT SLAB TOP
 - RCP PRECAST REINFORCED CONCRETE PIPE
 - PVC PERFORATED POLYVINYL CHLORIDE PIPE
 - BOX PRECAST CONCRETE BOX CULVERT, 3'x2'
 - SS-T1-A STORM SEWER, TYPE 1, CLASS A
 - PC-T1-D PIPE CULVERT, TYPE 1, CLASS D
 - UDR PIPE UNDERDRAIN
 - TBF TRENCH BACKFILL

| | | |
|------|----------|------|
| PLAN | REVIEWED | DATE |
| | BY | |
| | DATE | |
| | BY | |
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| PROFILE | REVIEWED | DATE |
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| | DATE | |
| | BY | |
| | DATE | |
| | BY | |
| | DATE | |



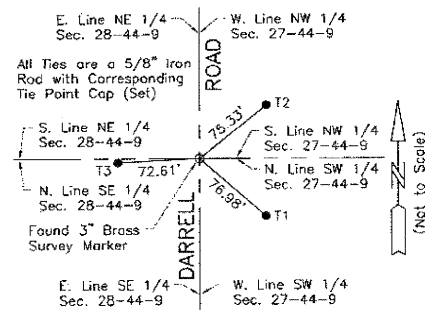
- STORM SEWER KEY**
- 10 DRAINAGE STRUCTURE NUMBER
 - 10 STORM SEWER NUMBER

PART OF THE WEST 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

| PARCEL NUMBER | OWNER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | EASEMENT PURPOSE | PERMANENT INDEX NUMBER | PROPERTY ACQUIRED BY |
|---------------|--|----------------------|------------------|-------------------------------|----------------------|---------------------|-----------------------|--------------------------------|----------------------|
| 1E53001T.E. | Joseph Infantino, David Joseph Infantino, and Judith Anne Infantino in joint tenancy | 10.463 | N/A | N/A | 10.463 | 0.092 | Construction Purposes | 09-27-300-026 09-27-300-032 | |

Existing & Proposed Pavement Illinois Route 176 Curve #1

P.I. = Sta. 63+94.10
 Δ = 8°48'30"
 R = 31155.28'
 T = 2399.51'
 L = 4789.56'
 E = 92.27'
 P.C. = Sta. 39+94.59
 P.T. = Sta. 87+84.15

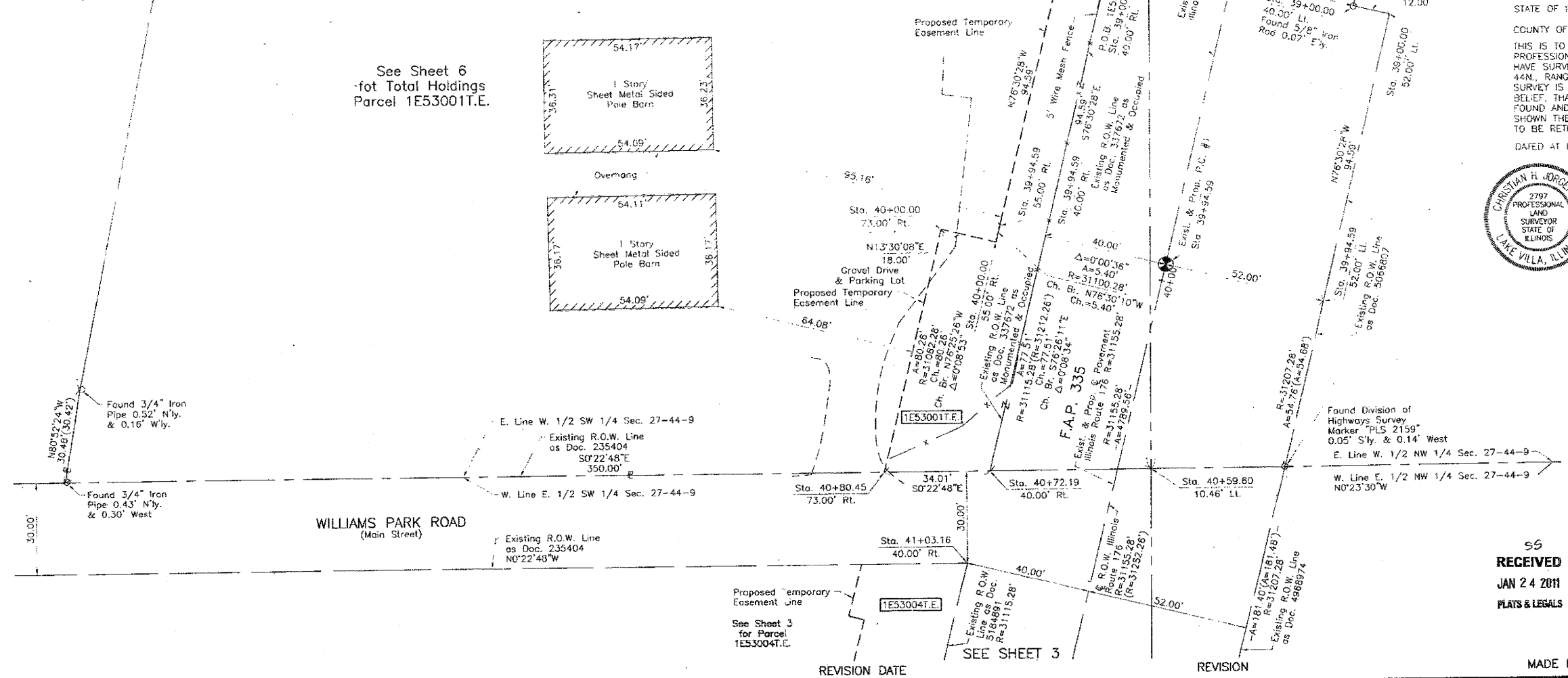
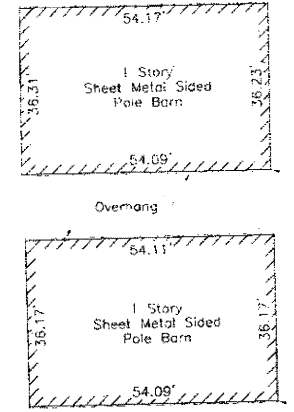


| COORDINATE TABLE | | | |
|------------------|-----------|---------------|---------------|
| STATION | OFFSET | NORTH | EAST |
| 39+94.59 | 55.00' Ft | 2,038,628.056 | 1,027,339.963 |
| 40+00.00 | 55.00' Ft | 2,038,626.796 | 1,027,345.214 |
| 40+00.00 | 73.00' Ft | 2,038,609.293 | 1,027,341.012 |
| 40+59.60 | 10.46' Ft | 2,038,676.475 | 1,027,418.460 |
| 40+72.19 | 40.00' Ft | 2,038,624.466 | 1,027,418.805 |
| 40+80.45 | 73.00' Ft | 2,038,590.453 | 1,027,419.031 |
| 41+03.16 | 40.00' Ft | 2,038,617.161 | 1,027,448.854 |

M-2 "Monument Record"
 West 1/4 Corner of Section 27-44-9
 N. 2,038,679.038 - E. 1,026,096.837
 Recorded December 3, 2010
 Document No. 6876946

| EXISTING R.O.W. RECORDED INFORMATION | | |
|--------------------------------------|--------------|------------------|
| Parcel | Document No. | Date Recorded |
| 1E53001 | 235404 | February 4, 1924 |
| 1E53001 | 337672 | June 3, 1929 |
| ----- | 235404 | February 4, 1924 |
| ----- | 337672 | June 3, 1929 |
| ----- | 4968974 | July 24, 2002 |
| ----- | 5066807 | December 6, 2002 |
| ----- | 5184891 | April 11, 2003 |

See Sheet 6 for Total Holdings Parcel 1E53001T.E.



LEGEND

SECTION CORNER (Symbol: S 10 18 15)

QUARTER SECTION CORNER (Symbol: 16 15)

SECTION LINE (Symbol: ---)

QUARTER SECTION LINE (Symbol: - - -)

QUARTER SECTION LINE (Symbol: - - -)

PLATTED LOT LINE (Symbol: - - -)

PROPERTY (DEED) LINE (Symbol: - - -)

APL (Symbol: - - -)

APPARENT PROPERTY LINE (Symbol: - - -)

CENTER LINE (Symbol: - - -)

EXISTING RIGHT OF WAY LINE (Symbol: - - -)

PROPOSED RIGHT OF WAY LINE (Symbol: - - -)

PROPOSED EASEMENT (Symbol: - - -)

MEASURED DIMENSION (Symbol: ---)

COMPUTED DIMENSION (Symbol: ---)

RECORD DATA (Symbol: ---)

EXISTING BUILDING (Symbol: [Hatched Box])

Scale: 1" = 20'

Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND

● "MAG" NAIL SET

+ CUT CROSS FOUND OR SET

● 5/8" REBAR SET

■ T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ T2 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ T3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● PERMANENT SURVEY MARKER. (D.O.T. STD 2135 (TO BE SET BY OTHERS))

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 30th DAY OF NOVEMBER, 2012 A.D.

NOTE: SURFACE COORDINATES ARE SHOWN

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 38+47.77 | 40.00' Rt. | 2,038,676.897 | 1,027,200.695 |
| 39+00.00 | 40.00' Rt. | 2,038,664.711 | 1,027,251.484 |
| 39+00.00 | 40.00' Lt. | 2,038,742.504 | 1,027,270.148 |
| 39+00.00 | 52.00' Lt. | 2,038,754.172 | 1,027,272.948 |
| 39+00.00 | 55.00' Rt. | 2,038,650.125 | 1,027,247.984 |
| 39+94.59 | 40.00' Rt. | 2,038,642.642 | 1,027,343.463 |
| 39+94.59 | 52.00' Lt. | 2,038,732.103 | 1,027,364.928 |

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

CHRISTIAN P. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR
 STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

NOTE: SURFACE COORDINATES ARE SHOWN

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 38+47.77 | 40.00' Rt. | 2,038,676.897 | 1,027,200.695 |
| 39+00.00 | 40.00' Rt. | 2,038,664.711 | 1,027,251.484 |
| 39+00.00 | 40.00' Lt. | 2,038,742.504 | 1,027,270.148 |
| 39+00.00 | 52.00' Lt. | 2,038,754.172 | 1,027,272.948 |
| 39+00.00 | 55.00' Rt. | 2,038,650.125 | 1,027,247.984 |
| 39+94.59 | 40.00' Rt. | 2,038,642.642 | 1,027,343.463 |
| 39+94.59 | 52.00' Lt. | 2,038,732.103 | 1,027,364.928 |

RECEIVED
 JAN 24 2011
 PLATS & LEGALS

MADE BY

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)

SECTION 27
 PROJECT LAKE COUNTY
 STATION 37+95.59 TO STATION 42+00
 SCALE: 1" = 20' SHEET 2 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

REVISION DATE

SEE SHEET 3

REVISION

ROUTE F.A.P. 335 (ILLINOIS ROUTE 176)

SECTION 27

COUNTY LAKE

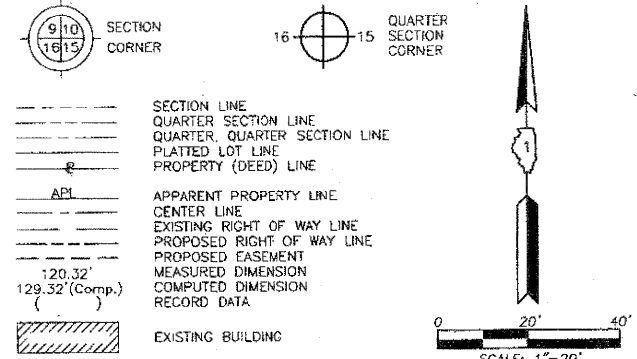
JOB NO. R-91-075-01

RECORDING: RECORDED ON

AS DOCUMENT NO.

PART OF THE WEST 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

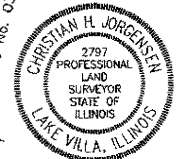
LEGEND



Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- IRON PIPE OR ROD FOUND
- + CUT CROSS FOUND OR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD PLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT LAKE VILLA, ILLINOIS THIS 20th DAY OF DECEMBER 2010 A.D.



NOTE: SURFACE COORDINATES ARE SHOWN.
 COORDINATE TABLE

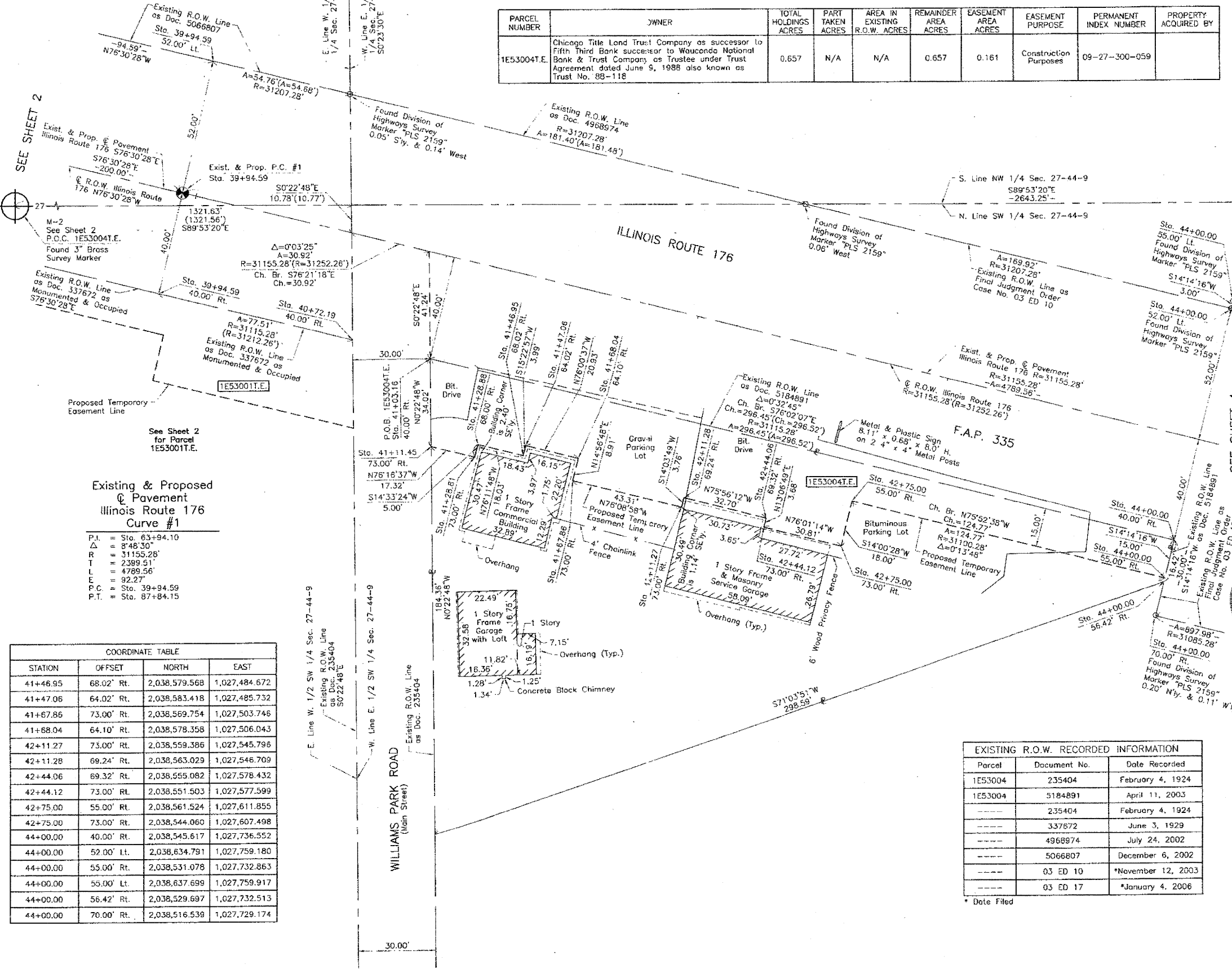
| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 39+94.59 | 40.00' Rt. | 2,038,642.642 | 1,027,343.463 |
| 39+94.59 | 52.00' Lt. | 2,038,732.103 | 1,027,354.928 |
| 40+72.19 | 40.00' Rt. | 2,038,624.466 | 1,027,416.805 |
| 41+03.16 | 40.00' Rt. | 2,038,617.161 | 1,027,448.854 |
| 41+11.45 | 73.00' Rt. | 2,038,583.140 | 1,027,449.080 |
| 41+28.81 | 73.00' Rt. | 2,038,579.030 | 1,027,465.908 |
| 41+28.88 | 68.00' Rt. | 2,038,583.869 | 1,027,467.165 |

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)
 SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION 39+00 TO STATION 44+00
 SCALE: 1"=20' SHEET 3 OF 10

RECEIVED
 JAN 24 2011
 PLATS & LEGALS

| PARCEL NUMBER | OWNER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | EASEMENT PURPOSE | PERMANENT INDEX NUMBER | PROPERTY ACQUIRED BY |
|---------------|--|----------------------|------------------|-------------------------------|----------------------|---------------------|-----------------------|------------------------|----------------------|
| 1E53004T.E | Chicago Title Land Trust Company as successor to Fifth Third Bank successor to Wauconda National Bank & Trust Company as Trustee under Trust Agreement dated June 9, 1988 also known as Trust No. 88-118 | 0.657 | N/A | N/A | 0.657 | 0.161 | Construction Purposes | 09-27-300-059 | |



Existing & Proposed Pavement Illinois Route 176 Curve #1
 P.I. = Sta. 63+94.10
 Δ = 8°46'30"
 R = 31155.28'
 T = 2389.51'
 L = 4789.56'
 P.C. = Sta. 39+94.59
 P.T. = Sta. 87+84.15

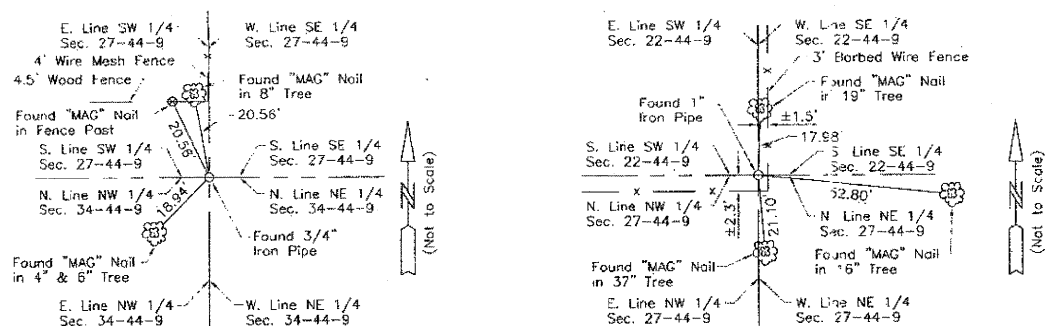
| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 41+46.95 | 68.02' Rt. | 2,038,579.568 | 1,027,484.672 |
| 41+47.06 | 64.02' Rt. | 2,038,583.418 | 1,027,485.732 |
| 41+67.86 | 73.00' Rt. | 2,038,569.754 | 1,027,503.746 |
| 41+68.04 | 64.10' Rt. | 2,038,578.358 | 1,027,506.043 |
| 42+11.27 | 73.00' Rt. | 2,038,559.386 | 1,027,545.796 |
| 42+11.28 | 69.24' Rt. | 2,038,563.029 | 1,027,546.709 |
| 42+44.06 | 69.32' Rt. | 2,038,555.082 | 1,027,578.432 |
| 42+44.12 | 73.00' Rt. | 2,038,551.503 | 1,027,577.599 |
| 42+75.00 | 55.00' Rt. | 2,038,561.524 | 1,027,611.855 |
| 42+75.00 | 73.00' Rt. | 2,038,544.060 | 1,027,607.498 |
| 44+00.00 | 40.00' Rt. | 2,038,545.617 | 1,027,736.552 |
| 44+00.00 | 52.00' Lt. | 2,038,634.791 | 1,027,759.180 |
| 44+00.00 | 55.00' Rt. | 2,038,531.078 | 1,027,732.863 |
| 44+00.00 | 55.00' Lt. | 2,038,637.699 | 1,027,759.917 |
| 44+00.00 | 56.42' Rt. | 2,038,529.697 | 1,027,732.513 |
| 44+00.00 | 70.00' Rt. | 2,038,516.539 | 1,027,729.174 |

| Parcel | Document No. | Date Recorded |
|---------|--------------|--------------------|
| 1E53004 | 235404 | February 4, 1924 |
| 1E53004 | 5184891 | April 11, 2003 |
| ----- | 235404 | February 4, 1924 |
| ----- | 337672 | June 3, 1929 |
| ----- | 4968974 | July 24, 2002 |
| ----- | 5066807 | December 6, 2002 |
| ----- | 03 ED 10 | *November 12, 2003 |
| ----- | 03 ED 17 | *January 4, 2006 |

PART OF THE WEST 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

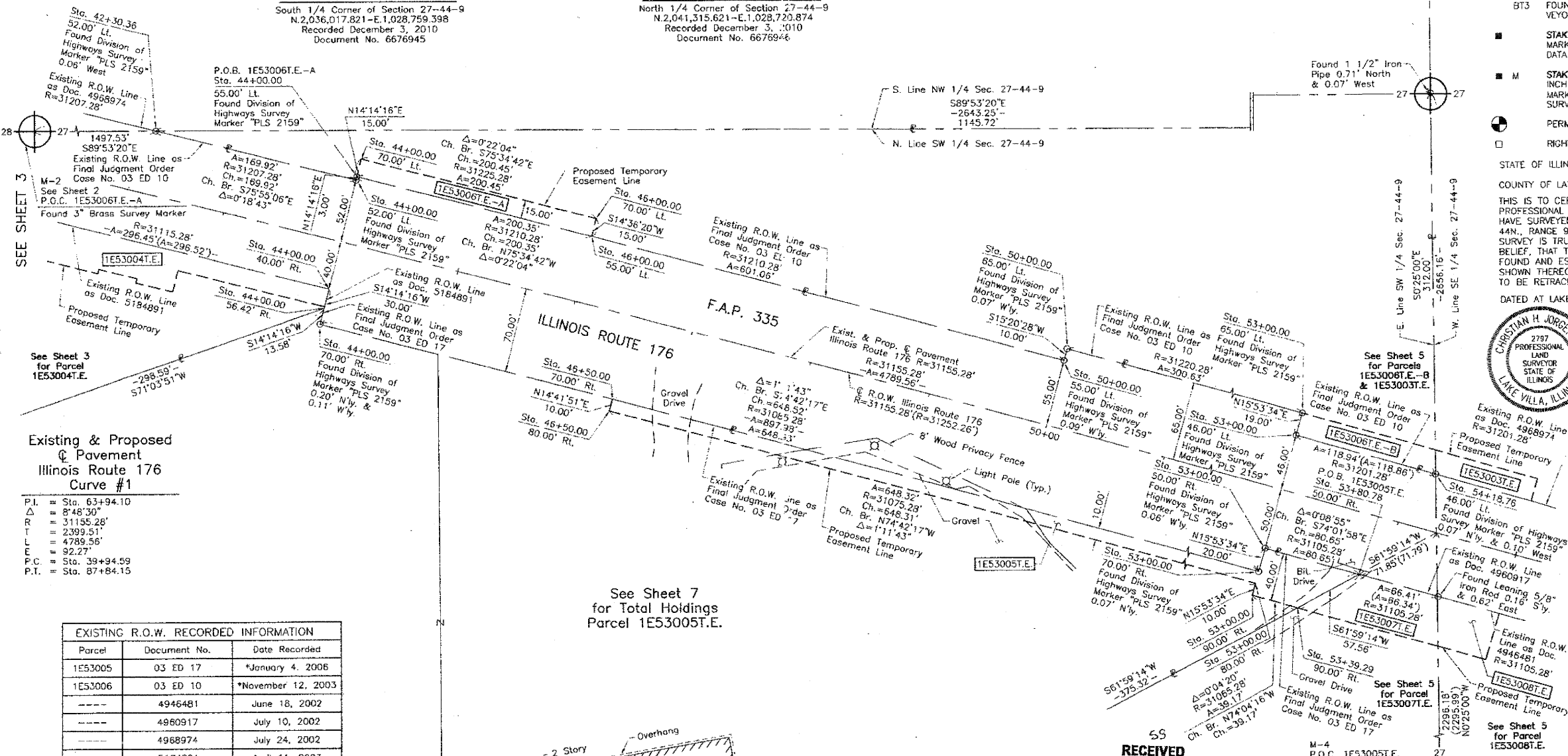
| PARCEL NUMBER | OWNER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | EASEMENT PURPOSE | PERMANENT INDEX NUMBER | PROPERTY ACQUIRED BY |
|--------------------------------|--------------------|----------------------|------------------|-------------------------------|----------------------|------------------------------|-----------------------|--------------------------------|----------------------|
| 1E53005T.E. | Asino, L.L.C. | 11.212 | N/A | N/A | 11.212 | 0.204 | Construction Purposes | 09-27-300-063 09-27-300-064 | |
| 1E53006T.E.-A 1E53006T.E.-B | Valentine W. Drozd | 3.803 | N/A | N/A | 3.803 | T.E.-A=0.069 T.E.-B=0.051 | Construction Purposes | 09-27-300-060 | |

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 46+00.00 | 70.00' Lt. | 2,038,602.315 | 1,027,957.739 |
| 46+50.00 | 70.00' Rt. | 2,038,454.221 | 1,027,970.702 |
| 46+50.00 | 80.00' Rt. | 2,038,444.548 | 1,027,968.164 |
| 50+00.00 | 55.00' Lt. | 2,038,484.270 | 1,028,341.055 |
| 50+00.00 | 65.00' Lt. | 2,038,493.914 | 1,028,343.700 |
| 53+00.00 | 46.00' Lt. | 2,038,394.710 | 1,028,628.024 |
| 53+00.00 | 50.00' Rt. | 2,038,302.379 | 1,028,601.735 |
| 53+00.00 | 65.00' Lt. | 2,038,412.984 | 1,028,633.227 |
| 53+00.00 | 70.00' Rt. | 2,038,283.144 | 1,028,596.258 |
| 53+00.00 | 80.00' Rt. | 2,038,273.526 | 1,028,593.520 |
| 53+00.00 | 90.00' Rt. | 2,038,263.908 | 1,028,590.781 |
| 53+39.29 | 90.00' Rt. | 2,038,253.157 | 1,028,628.452 |
| 53+80.78 | 50.00' Rt. | 2,038,280.194 | 1,028,679.273 |
| 54+18.76 | 46.00' Lt. | 2,038,361.922 | 1,028,742.353 |



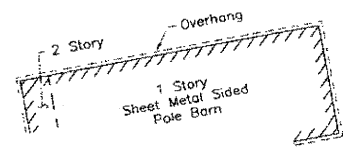
M-4
"Monument Record"
South 1/4 Corner of Section 27-44-9
N.2,036,017.821-E.1,028,759.398
Recorded December 3, 2010
Document No. 6676945

M-5
"Monument Record"
North 1/4 Corner of Section 27-44-9
N.2,041,315.621-E.1,028,720.874
Recorded December 3, 2010
Document No. 6676946



Existing & Proposed Pavement Illinois Route 176 Curve #1
P.I. = Sta. 63+94.10
Δ = 8°48'30"
R = 31155.28'
L = 2399.51'
T = 4789.56'
E = 92.27'
P.C. = Sta. 39+94.59
P.T. = Sta. 87+84.15

| Parcel | Document No. | Date Recorded |
|---------|--------------|--------------------|
| 1E53005 | 03 ED 17 | *January 4, 2006 |
| 1E53006 | 03 ED 10 | *November 12, 2003 |
| --- | 4946481 | June 18, 2002 |
| --- | 4960917 | July 10, 2002 |
| --- | 4968974 | July 24, 2002 |
| --- | 5184891 | April 11, 2003 |



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL
- APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
T2
T3
BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
BT2
BT3
M STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF LAKE }
THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
DATED AT LAKE VILLA, ILLINOIS THIS 31st DAY OF December 2010 A.D.

CHRISTIAN H. JORGENSEN
2787 PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
NOTE: SURFACE COORDINATES ARE SHOWN.

COORDINATE TABLE

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 42+30.36 | 52.00' Lt. | 2,038,676.134 | 1,027,594.366 |
| 44+00.00 | 40.00' Rt. | 2,038,545.617 | 1,027,736.552 |
| 44+00.00 | 52.00' Lt. | 2,038,634.791 | 1,027,759.180 |
| 44+00.00 | 55.00' Lt. | 2,038,637.699 | 1,027,759.917 |
| 44+00.00 | 56.42' Rt. | 2,038,529.697 | 1,027,732.513 |
| 44+00.00 | 70.00' Lt. | 2,038,516.539 | 1,027,729.174 |
| 44+00.00 | 70.00' Lt. | 2,038,652.238 | 1,027,763.606 |
| 46+00.00 | 55.00' Lt. | 2,038,587.800 | 1,027,953.957 |

COORDINATE TABLE

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 42+30.36 | 52.00' Lt. | 2,038,676.134 | 1,027,594.366 |
| 44+00.00 | 40.00' Rt. | 2,038,545.617 | 1,027,736.552 |
| 44+00.00 | 52.00' Lt. | 2,038,634.791 | 1,027,759.180 |
| 44+00.00 | 55.00' Lt. | 2,038,637.699 | 1,027,759.917 |
| 44+00.00 | 56.42' Rt. | 2,038,529.697 | 1,027,732.513 |
| 44+00.00 | 70.00' Lt. | 2,038,516.539 | 1,027,729.174 |
| 44+00.00 | 70.00' Lt. | 2,038,652.238 | 1,027,763.606 |
| 46+00.00 | 55.00' Lt. | 2,038,587.800 | 1,027,953.957 |

COORDINATE TABLE

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 42+30.36 | 52.00' Lt. | 2,038,676.134 | 1,027,594.366 |
| 44+00.00 | 40.00' Rt. | 2,038,545.617 | 1,027,736.552 |
| 44+00.00 | 52.00' Lt. | 2,038,634.791 | 1,027,759.180 |
| 44+00.00 | 55.00' Lt. | 2,038,637.699 | 1,027,759.917 |
| 44+00.00 | 56.42' Rt. | 2,038,529.697 | 1,027,732.513 |
| 44+00.00 | 70.00' Lt. | 2,038,516.539 | 1,027,729.174 |
| 44+00.00 | 70.00' Lt. | 2,038,652.238 | 1,027,763.606 |
| 46+00.00 | 55.00' Lt. | 2,038,587.800 | 1,027,953.957 |

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 335 (ILLINOIS ROUTE 176)

SECTION LAKE COUNTY
PROJECT JOB NO. R-91-075-01
STATION 42+00 TO STATION 55+00
SCALE: 1"=50' SHEET 4 OF 10

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PART OF THE SOUTH 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

| PARCEL NUMBER | OWNER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA ACRES | EASEMENT PURPOSE | PERMANENT INDEX NUMBER | PROPERTY ACQUIRED BY |
|--------------------------------|---|----------------------|------------------|-------------------------------|----------------------|------------------------------|-----------------------|---|----------------------|
| 1E53003T.E. | Chicago Title Land Trust Company as successor to LaSalle National Bank as Trustee under Trust Agreement dated January 12, 1973 known as Trust No. 45439 | 167.281 | N/A | N/A | 167.281 | 0.037 | Construction Purposes | 09-22-400-008 09-27-100-002 09-27-200-001 09-27-200-002 09-27-400-016 | |
| 1E53006T.E.-A 1E53006T.E.-B | Valentine W. Drozd | 3.803 | N/A | N/A | 3.803 | T.E.-A=0.069 T.E.-B=0.051 | Construction Purposes | 09-27-300-060 | |
| 1E53007T.E. | Heeney-Cole Properties, LLC | 4.981 | N/A | N/A | 4.981 | 0.085 | Construction Purposes | 09-27-300-057 | |
| 1E53008T.E. | Vern Meyer, divorced and not since remarried | 30.565 | N/A | N/A | 30.565 | 0.043 | Construction Purposes | 09-27-401-020 | |

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 54+18.76 | 46.00' Lt. | 2,038,361.922 | 1,028,742.353 |
| 54+47.30 | 50.00' Rt. | 2,038,261.773 | 1,028,743.081 |
| 54+59.24 | 90.00' Rt. | 2,038,220.037 | 1,028,743.384 |
| 55+00.00 | 46.00' Lt. | 2,038,339.243 | 1,028,820.485 |
| 55+00.00 | 50.00' Rt. | 2,038,247.083 | 1,028,793.604 |
| 55+00.00 | 65.00' Lt. | 2,038,357.483 | 1,028,825.806 |
| 55+00.00 | 90.00' Rt. | 2,038,208.683 | 1,028,782.404 |

LEGEND

SECTION CORNER (9/10, 16/15)
QUARTER SECTION CORNER (16, 15)

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE

APL
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED DIMENSION
COMPUTED DIMENSION
RECORD DATA

EXISTING BUILDING

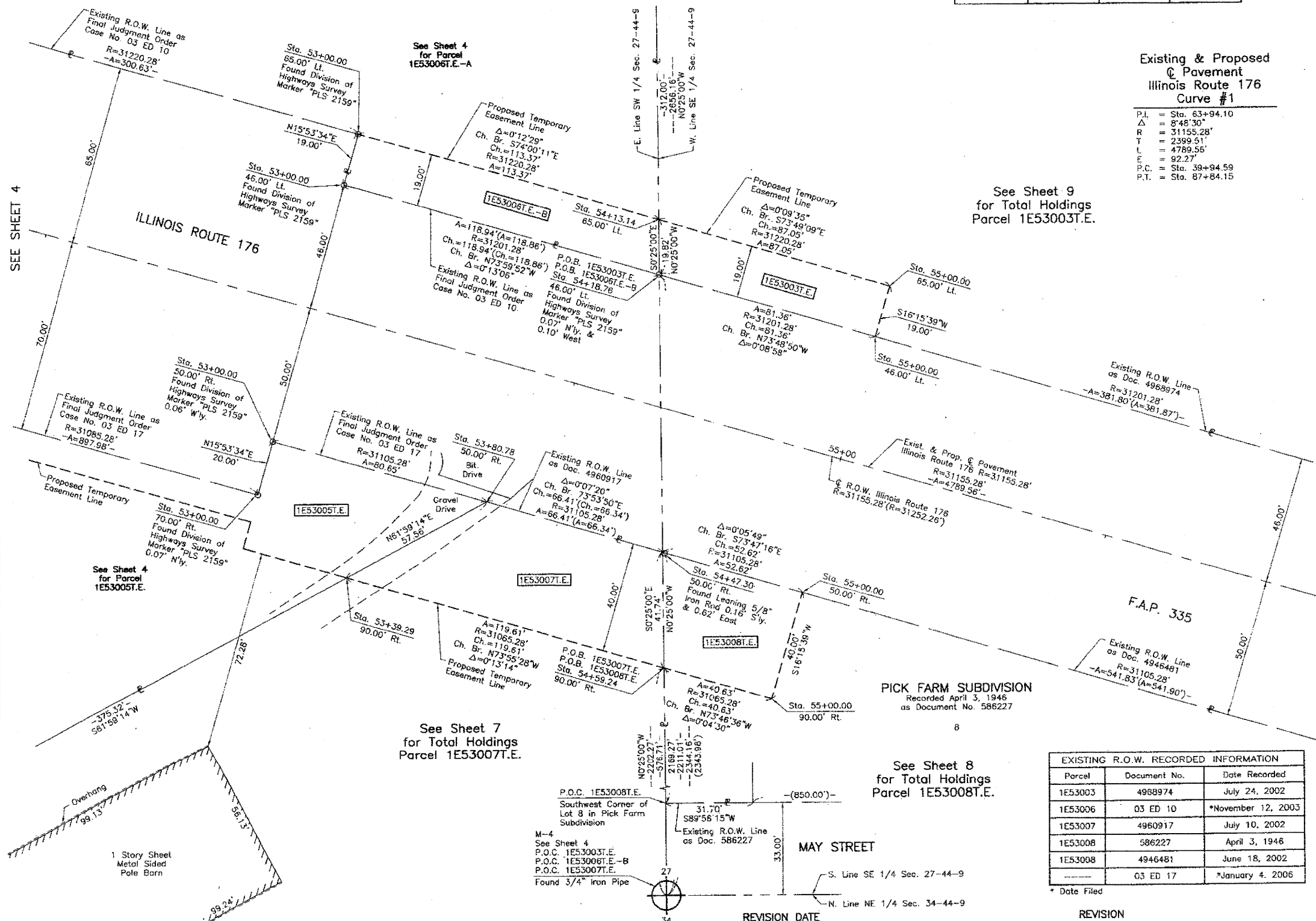
SCALE: 1"=20'

Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

IRON PIPE OR ROD FOUND
CUT CROSS FOUND OR SET
THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET.

Existing & Proposed Pavement Illinois Route 176 Curve #1

P.I. = Sta. 63+94.10
 Δ = 8°48'30"
 R = 31155.28'
 T = 2389.51'
 L = 4789.56'
 E = 92.27'
 P.C. = Sta. 39+94.59
 P.T. = Sta. 87+84.15



STATE OF ILLINOIS)
 COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. DATED AT LAKE VILLA, ILLINOIS THIS 2nd DAY OF December 2012 A.D.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR
 STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

NOTE: SURFACE COORDINATES ARE SHOWN.

| STATION | OFFSET | NORTH | EAST |
|----------|------------|---------------|---------------|
| 53+00.00 | 46.00' Lt. | 2,038,394.710 | 1,028,628.024 |
| 53+00.00 | 50.00' Rt. | 2,038,302.379 | 1,028,601.735 |
| 53+00.00 | 65.00' Lt. | 2,038,412.984 | 1,028,633.227 |
| 53+00.00 | 70.00' Rt. | 2,038,283.144 | 1,028,596.258 |
| 53+39.29 | 90.00' Rt. | 2,038,253.157 | 1,028,628.452 |
| 53+80.78 | 50.00' Rt. | 2,038,280.194 | 1,028,679.273 |
| 54+13.14 | 65.00' Lt. | 2,038,381.740 | 1,028,742.208 |

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)

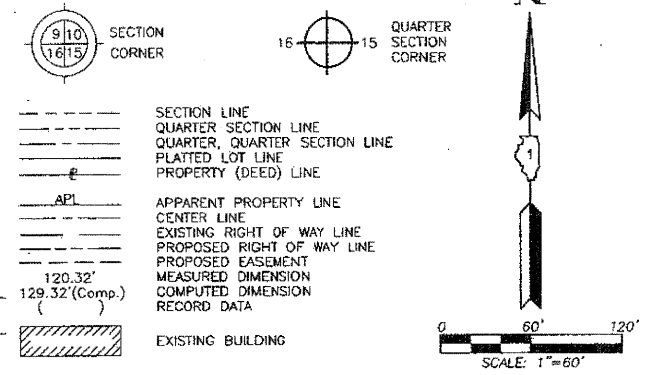
SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION 52+00 TO STATION 57+00
 SCALE: 1"=20' SHEET 5 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

| Parcel | Document No. | Date Recorded |
|---------|--------------|--------------------|
| 1E53003 | 4968974 | July 24, 2002 |
| 1E53006 | 03 ED 10 | *November 12, 2003 |
| 1E53007 | 4960917 | July 10, 2002 |
| 1E53008 | 586227 | April 3, 1946 |
| 1E53008 | 4946481 | June 18, 2002 |
| --- | 03 ED 17 | *January 4, 2006 |

RECEIVED
 JAN 24 2011
 PLATS & LEGALS

LEGEND



Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 30th DAY OF December 2010 A.D.



Christian H. Jorgensen
 PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

NOTE: SURFACE COORDINATES ARE SHOWN.

55
 RECEIVED
 JAN 24 2011
 PLATS & LEGALS

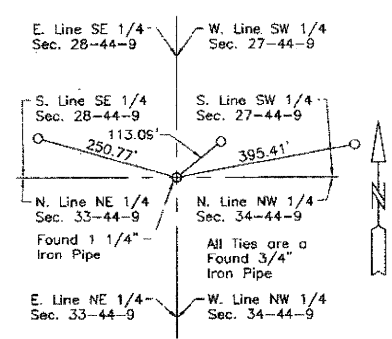
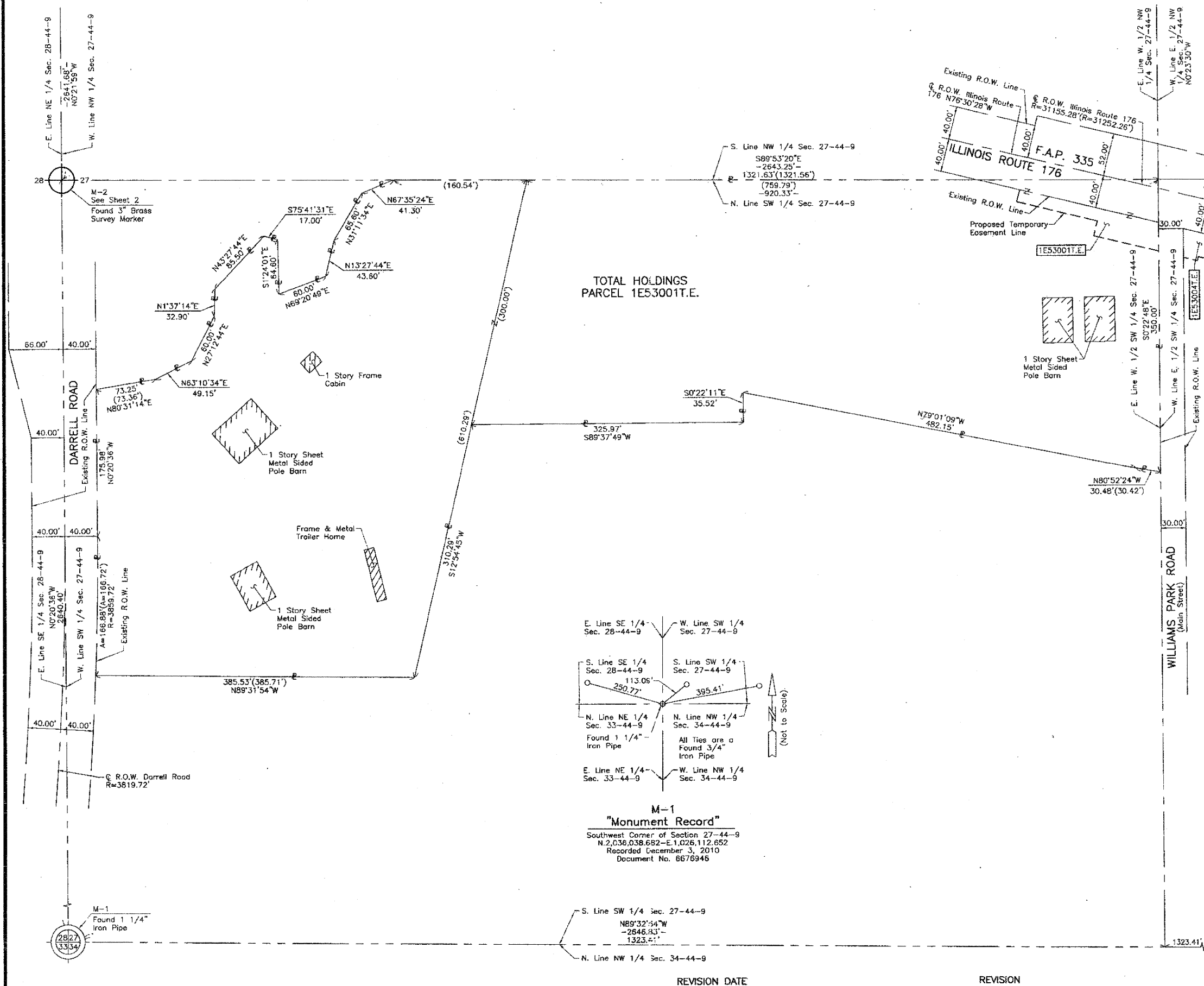
JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)

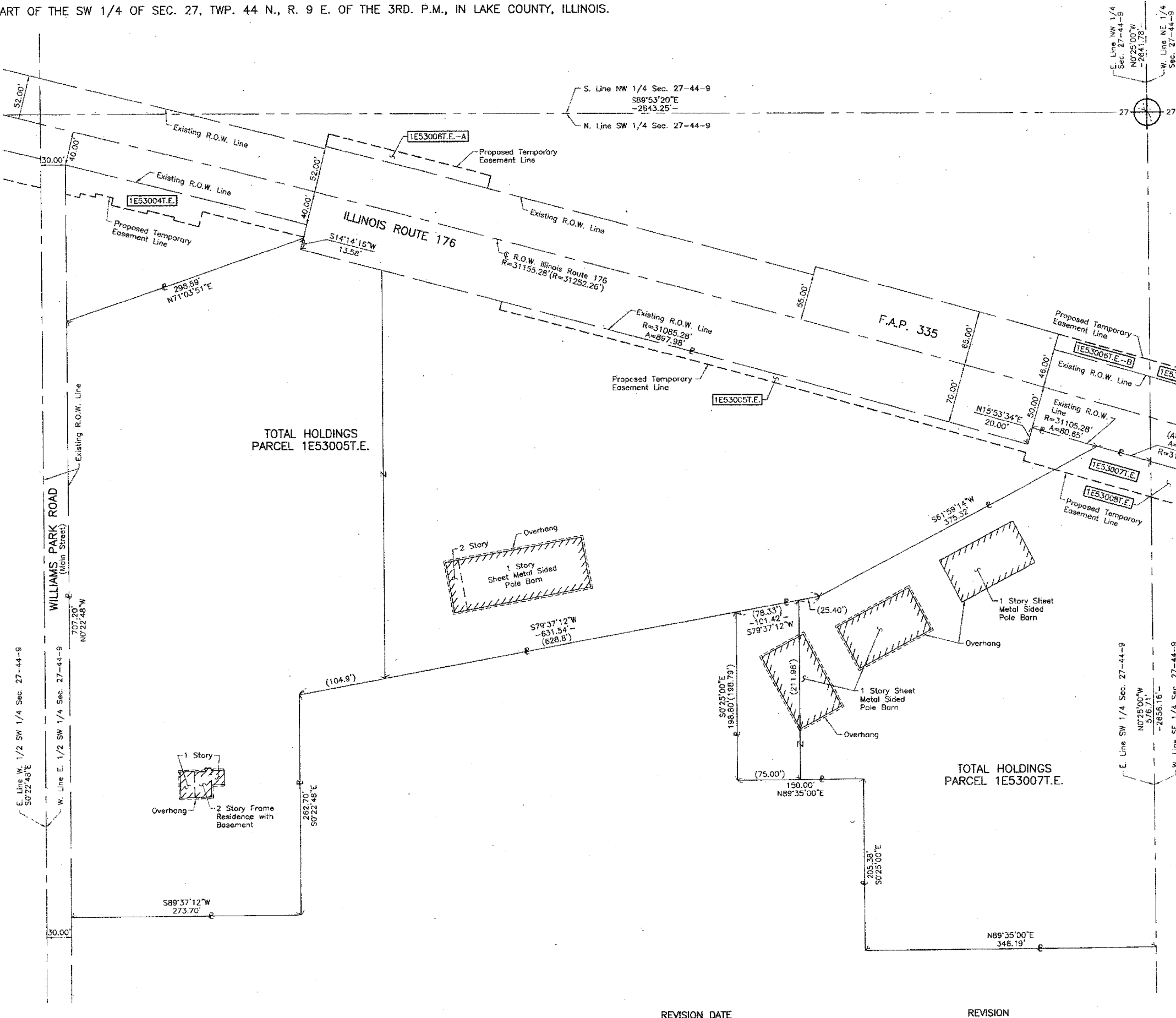
SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION NONE TO STATION
 SCALE: 1"=60' SHEET 6 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196



M-1
 "Monument Record"
 Southwest Corner of Section 27-44-9
 N. 2,036.038.682 - E. 1,026.112.652
 Recorded December 3, 2010
 Document No. 6676946

PART OF THE SW 1/4 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



LEGEND

SECTION CORNER: 9 | 10, 16 | 15
 QUARTER SECTION CORNER: 16 | 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL: APPARENT PROPERTY LINE
 CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT
 MEASURED DIMENSION
 COMPUTED DIMENSION
 RECORD DATA

EXISTING BUILDING

Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
 + CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 T2
 T3

● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 BT2
 BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

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⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 2nd DAY OF December 2011 A.D.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

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 COUNTY OF LAKE }SS

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 LAKE VILLA, ILLINOIS

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 LAKE VILLA, ILLINOIS

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SS
 RECEIVED
 JAN 24 2011
 PLATS & LEGALS

MADE BY

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)

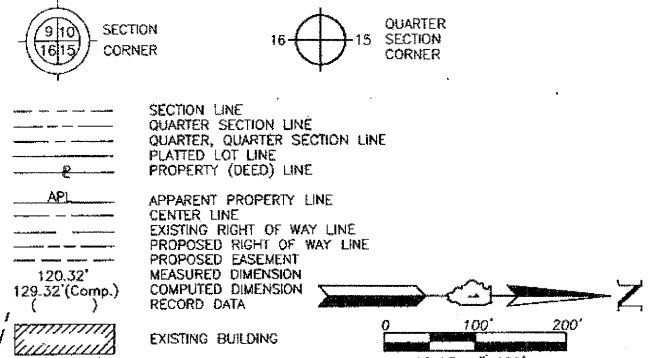
SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION NONE TO STATION
 SCALE: 1"=60' SHEET 7 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

ROUTE F.A.P. 335 (ILLINOIS ROUTE 176) SECTION COUNTY LAKE JOB NO. R-91-075-01 RECORDING: RECORDED ON AS DOCUMENT NO.

PART OF THE SOUTH 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND



- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
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- BT2
- BT3
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- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
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 DATED AT LAKE VILLA, ILLINOIS THIS 2nd DAY OF December 2010 A.D.



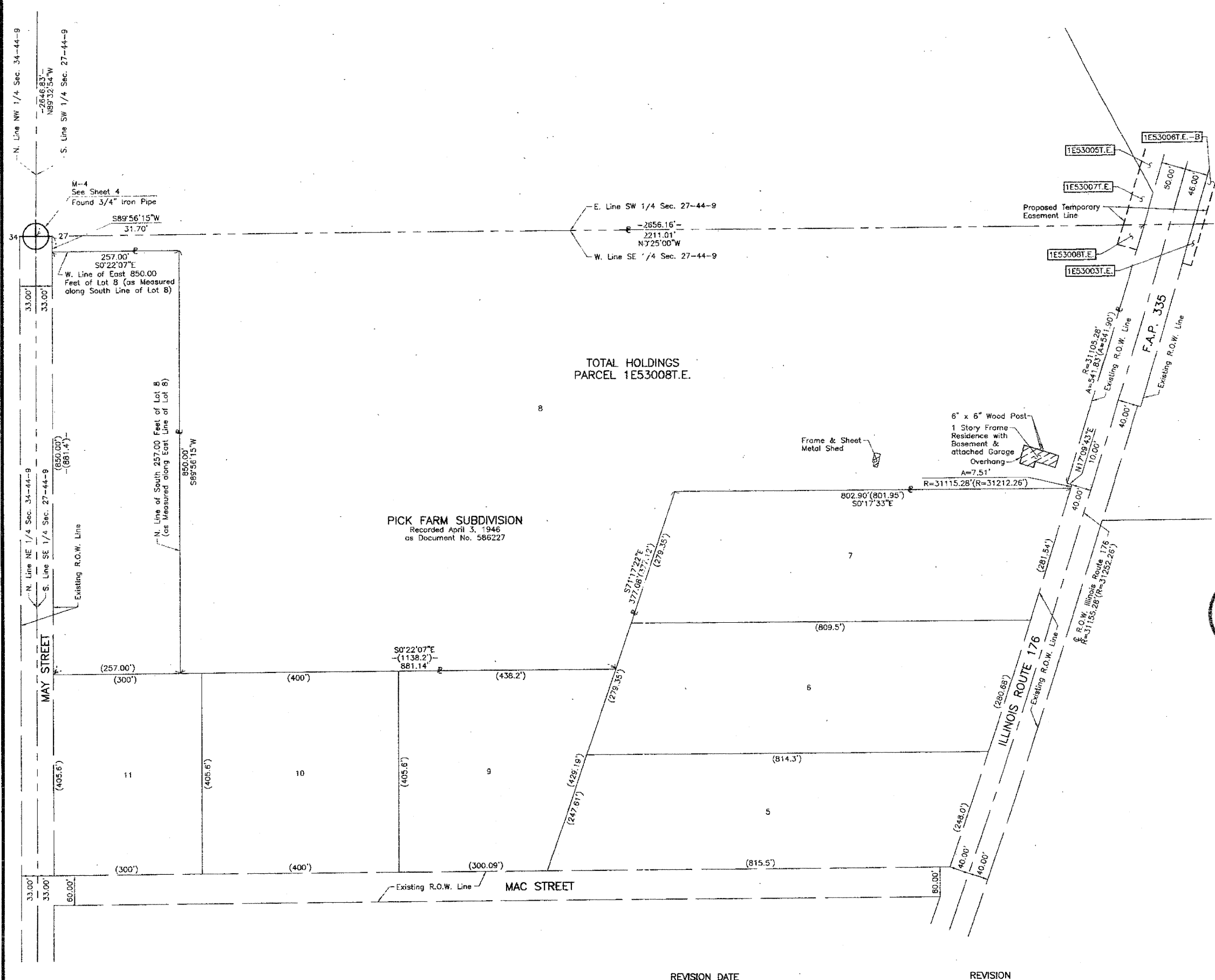
Christian H. Jorgensen
 PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

SS
 RECEIVED
 JAN 24 2011
 PLATS & LEGALS

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 358-3371

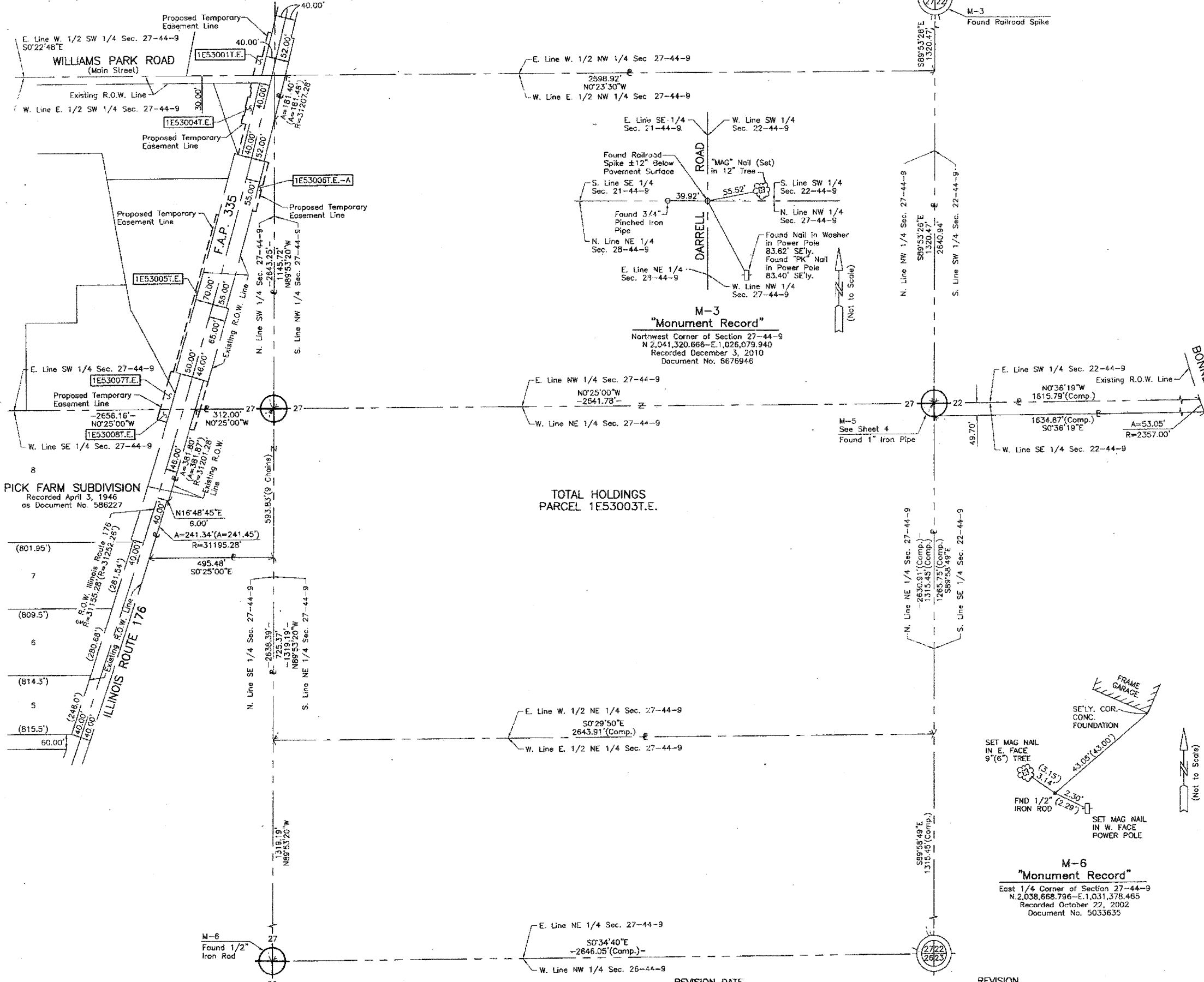
PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)
 SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 8 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
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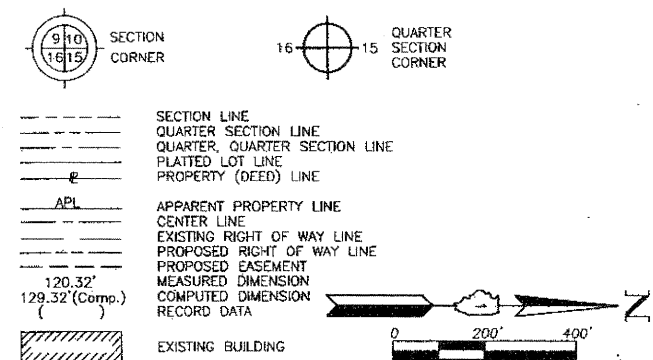


ROUTE F.A.P. 335 (ILLINOIS ROUTE 176) SECTION COUNTY LAKE JOB NO. R-91-075-01 RECORDING: RECORDED ON AS DOCUMENT NO.

PART OF THE SE 1/4 OF SEC. 22, PART OF THE EAST 1/2 OF SEC. 27 AND PART OF THE WEST 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



LEGEND



- Bearings are referenced to Illinois State Plane Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.
- IRON PIPE OR ROD FOUND
 - ⊕ "MAG" NAIL SET
 - + CUT CROSS FOUND OR SET
 - 5/8" REBAR SET
 - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - T2
 - T3
 - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT2
 - BT3
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM SURVEYING CORPORATION, NUMBER 184-2771, TOWNSHIP 44N., RANGE 9E. AND SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 26th DAY OF December 2010 A.D.

Christian H. Jorgensen PRESIDENT
 2787 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

NOTE: SURFACE COORDINATES ARE SHOWN.



SS
RECEIVED
 JAN 24 2011
 PLATS & LEGALS

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

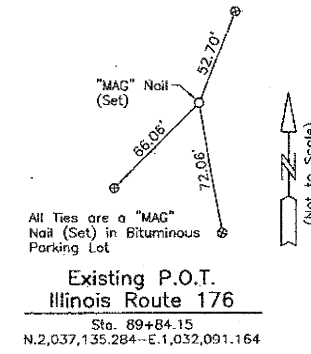
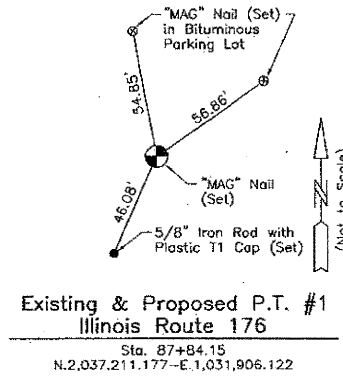
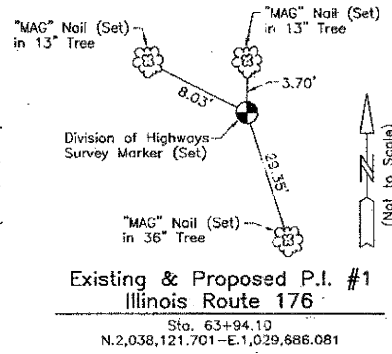
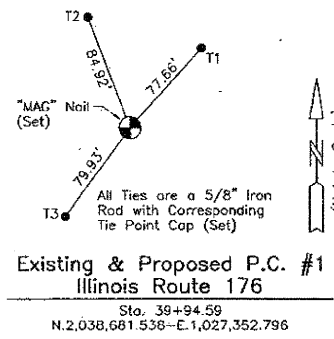
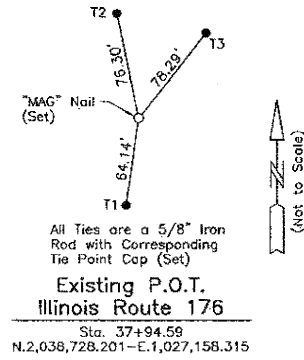
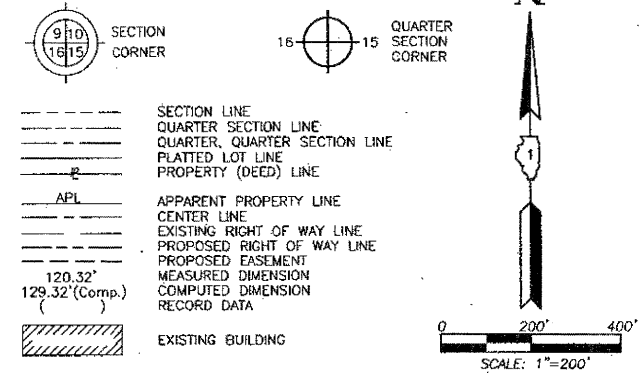
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 F.A.P. 335 (ILLINOIS ROUTE 176)

SECTION LAKE COUNTY
 PROJECT JOB NO. R-91-075-01
 STATION NONE TO STATION
 SCALE: 1"=200' SHEET 9 OF 10

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

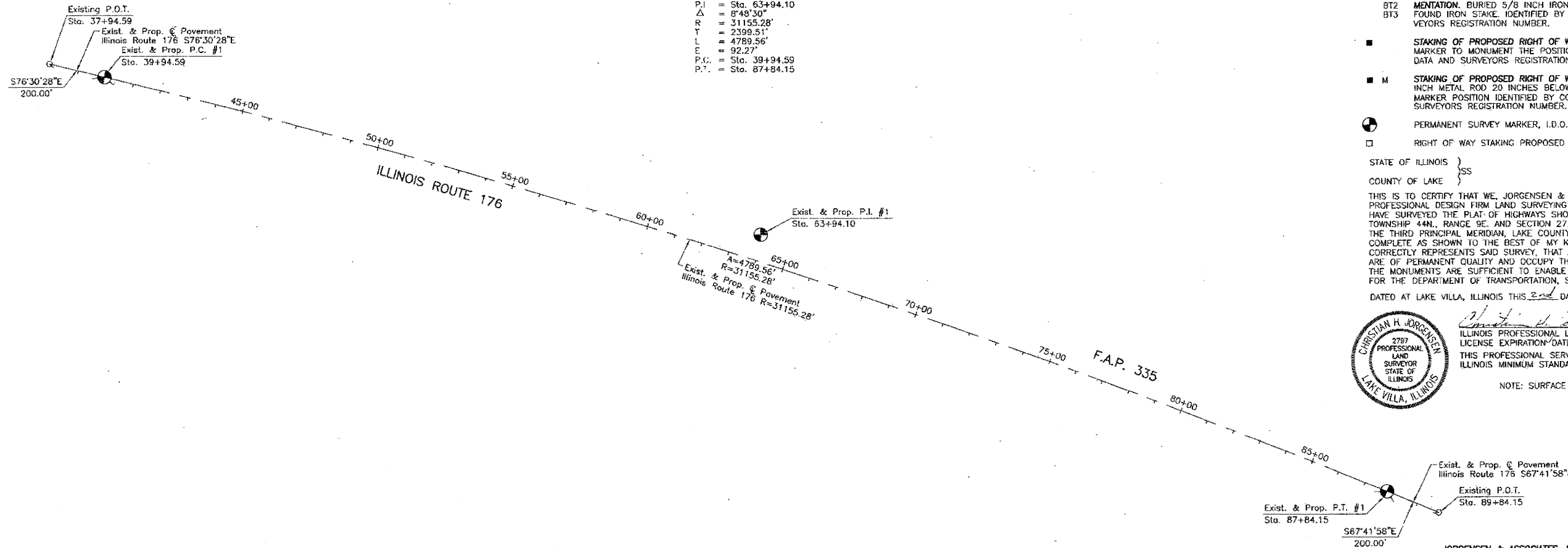
PART OF THE SW 1/4 SEC. 26, PART OF THE NW 1/4 OF SEC. 27 AND PART OF THE SOUTH 1/2 OF SEC. 27, TWP. 44 N., R. 9 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND



**Existing & Proposed
C Pavement
Illinois Route 176
Curve #1**

P.I. = Sta. 63+94.10
Δ = 8°48'30"
R = 31155.28'
T = 2399.51'
L = 4789.56'
E = 92.27'
P.C. = Sta. 39+94.59
P.T. = Sta. 87+84.15



STATE OF ILLINOIS }
COUNTY OF LAKE }
THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 26, TOWNSHIP 44N., RANGE 9E. AND SECTION 27, TOWNSHIP 44N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
DATED AT LAKE VILLA, ILLINOIS THIS 2nd DAY OF December 2010 A.D.



Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2787
LICENSE EXPIRATION DATE: NOVEMBER 30, 2012
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
NOTE: SURFACE COORDINATES ARE SHOWN.

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371
SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

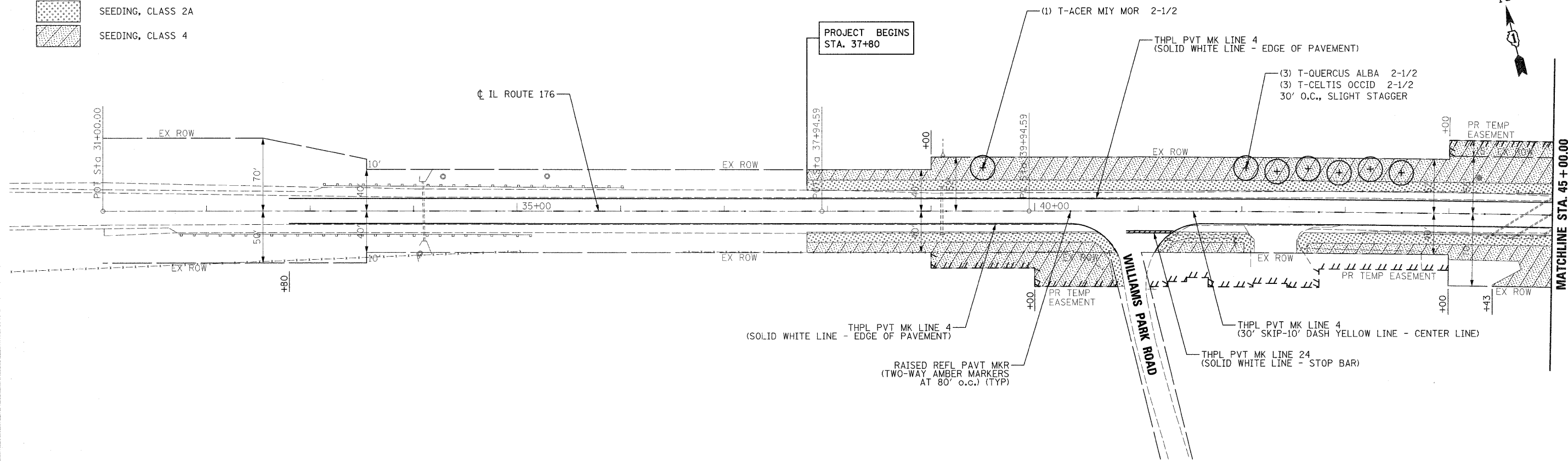
**PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 335 (ILLINOIS ROUTE 176)**
SECTION LAKE COUNTY
PROJECT JOB NO. R-91-075-01
STATION 37+94.59 TO STATION 89+84.15
SCALE: 1"=200' SHEET 10 OF 10

**BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196**

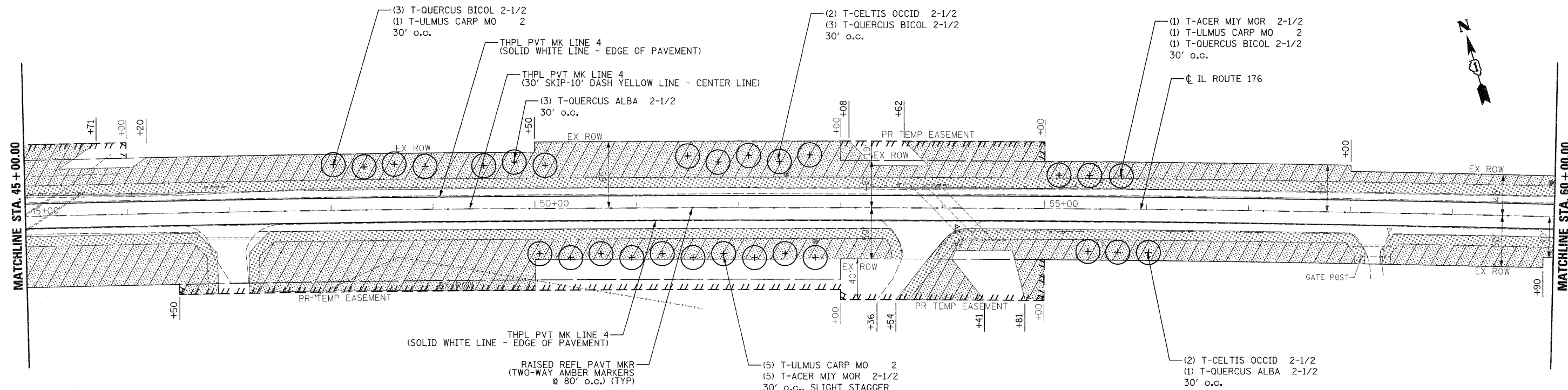
LANDSCAPING LEGEND

-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4

IL ROUTE 176



IL ROUTE 176



FILE NAME =
#FILEABREV#



| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

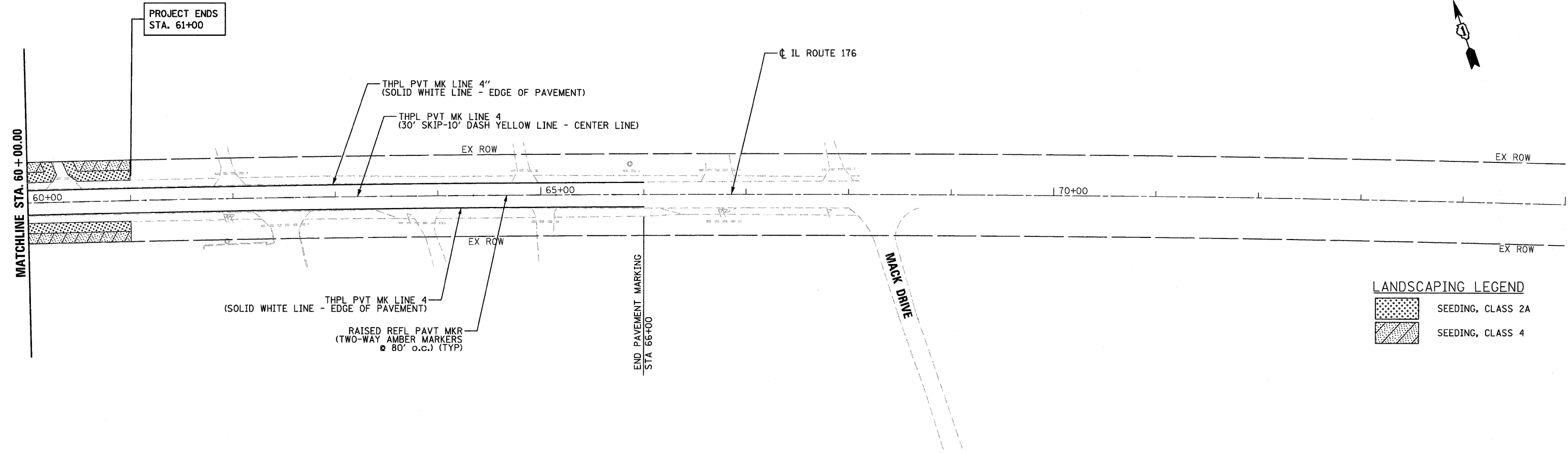
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
PAVEMENT MARKING AND LANDSCAPING PLAN

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. 37+80 TO STA. 60+00

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 32 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

IL ROUTE 176



LANDSCAPING LEGEND

| | |
|--|-------------------|
| | SEEDING, CLASS 2A |
| | SEEDING, CLASS 4 |

FILE NAME =
...\\D162187-sht-pmk_02.dgn



| | | | |
|----------|-----------|---------|---|
| DESIGNED | ADW | REVISED | - |
| DRAWN | GEW | REVISED | - |
| CHECKED | RJD | REVISED | - |
| DATE | 9/14/2011 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
PAVEMENT MARKING AND LANDSCAPING PLAN

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. 60+00 TO STA. 66+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 33 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

Bench Mark:

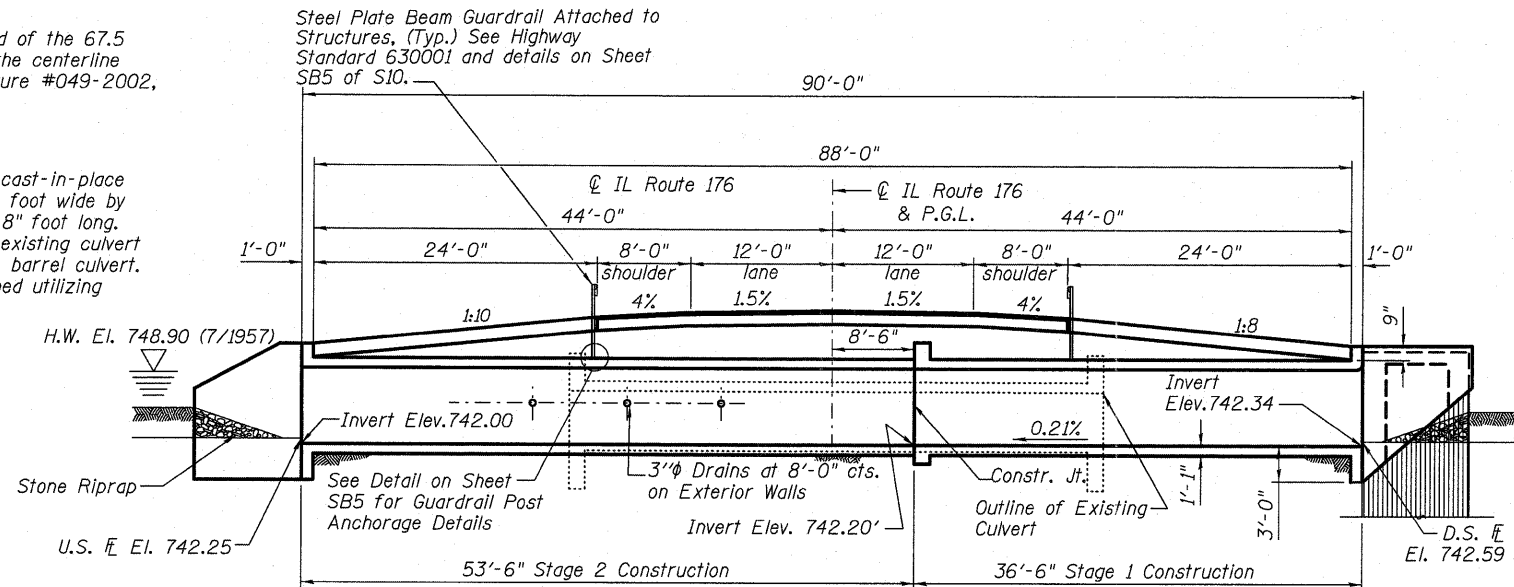
"□" Cut in the East end of the 67.5 foot headwall North of the centerline of IL. Route 176 Structure #049-2002, Elev. 749.16.

Existing Structure:

SN 049-2002 Two-cell cast-in-place concrete box culvert, 12 foot wide by 4'-6" foot high, by 45'-8" foot long. Contractor shall remove existing culvert and construct new three barrel culvert. Traffic shall be maintained utilizing stage construction.

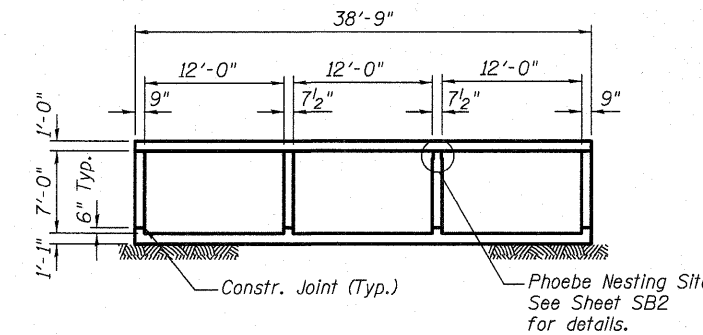
Salvage: None

Steel Plate Beam Guardrail Attached to Structures, (Typ.) See Highway Standard 630001 and details on Sheet SB5 of S10.



LONGITUDINAL SECTION

Dimensions shown are at Rt. angle to C Roadway



SECTION THRU BARREL

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition

LOADING HS20-44

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

DESIGN STRESSES

FIELD UNITS

f_b = 3,500 psi
f_y = 60,000 psi (reinforcement)

WATERWAY INFORMATION

| Drainage Area = 7.15 sq. mi. Low Grade Elev. = 752.07 @ Sta. 43+00 | | | | | | | | | |
|--|-----------|----------|-----------------|-------|----------|-------|---------------|-------|-------|
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | | Head-Ft. | | Headwater El. | | Prop. |
| | | | Exist. | Prop. | Exist. | Prop. | Exist. | Prop. | |
| Design | 10 | 233 | 72 | 218 | 748.4 | 0.3 | 0.0 | 748.7 | 748.4 |
| Base | 50 | 341 | 72 | 225 | 748.6 | 0.7 | 0.0 | 749.3 | 748.6 |
| Overtopping | 100 | 395 | 72 | 233 | 748.8 | 0.6 | 0.1 | 749.4 | 748.9 |
| Max. Calc. | 500 | 487 | 72 | 236 | 748.9 | 0.6 | 0.1 | 749.5 | 749.0 |

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. At least 6'-0" of the barrel shall be poured monolithically with the concrete wingwall.
4. Precast alternate is not allowed.
5. For backfilling and embankment, see standard specifications.
6. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

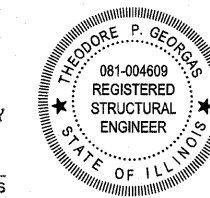
STATION 45+00
BUILT 201L BY
STATE OF ILLINOIS
F.A.P 335 SEC. 145 X-T
LOADING HS20
STR. NO. 049-0197

NAME PLATE

See Std. 515001

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Theodore P. Georgas
ENGINEER OF BRIDGES AND STRUCTURES



Theodore P. Georgas 11-30-11
Theodore P. Georgas Date
Licensed Structural Engineer
State of Illinois 081-4609
Expires 11/30/2012

TOTAL BILL OF MATERIAL

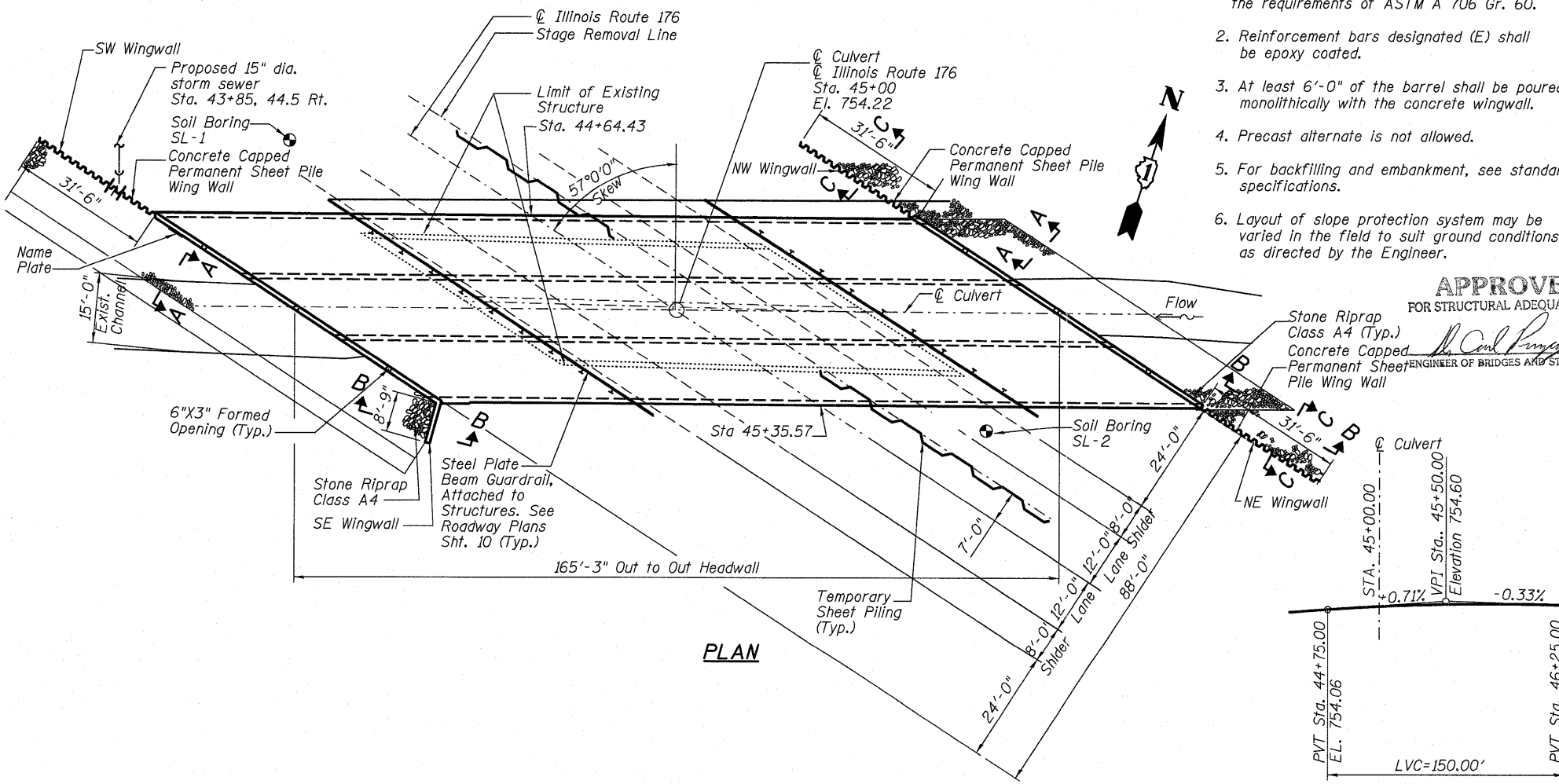
| ITEM | UNIT | TOTAL |
|--------------------------------------|---------|---------|
| Stone Riprap, Class A4 | Sq. Yd. | 272 |
| Filter Fabric | Sq. Yd. | 272 |
| Removal of Existing Structures No. 2 | Each | 1 |
| Stud Shear Connectors | Each | 395 |
| Reinforcement Bars | Pound | 141,630 |
| Reinforcement Bars, Epoxy Coated | Pound | 2,290 |
| Bar Splicers | Each | 496 |
| Name Plates | Each | 1 |
| Concrete Box Culverts | Cu. Yd. | 665.2 |
| Geotextile Retaining Wall | Sq. Ft. | 331 |
| Temporary Sheet Piling | Sq. Ft. | 1,731 |
| Permanent Steel Sheet Piling | Sq. Ft. | 2,484 |
| Temporary Support System, Location 2 | Each | 1 |

Note: See Roadway Plans for the quantity of "Steel Plate Beam Guardrail, Attached to Structures".

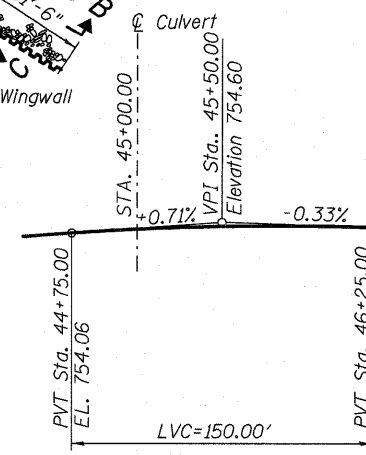
INDEX OF SHEETS

- SB1 - General Plan
- SB2 - Stage Construction Details
- SB3 - Geotextile Retaining Wall
- SB4 - Culvert Plan and Details
- SB5 - Sections and Details
- SB6 - Sheet Piling Wingwall Details
- SB7 - Temporary Concrete Barrier
- SB8 - Bar Splicer Assembly Details
- SB9 - Boring Logs
- SB10 - Boring Logs

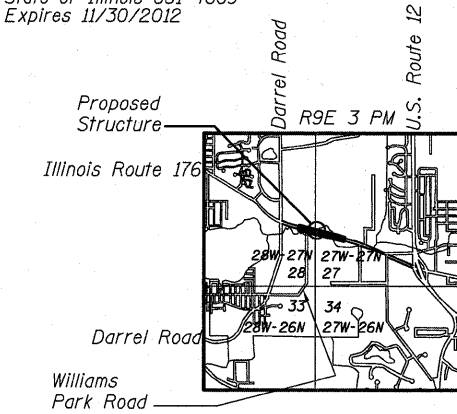
GENERAL PLAN ILLINOIS ROUTE 176 OVER BANGS LAKE DRAIN LAKE COUNTY STA. 45+00



PLAN



PROFILE GRADE LINE
Along C IL Route 176



LOCATION SKETCH



| | | |
|--------------|----------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH | REVISED - |

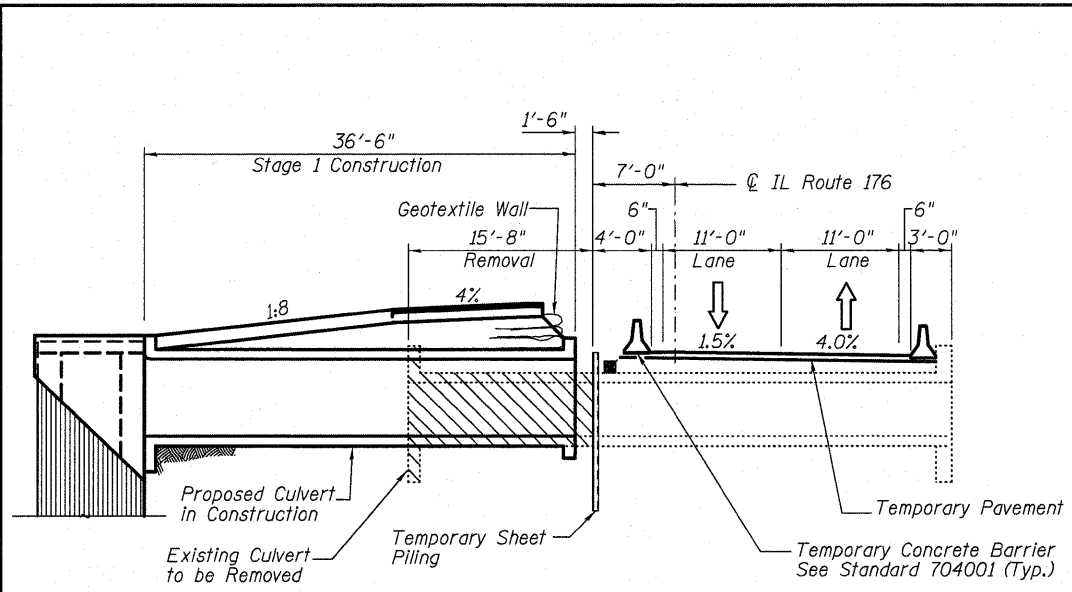
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE No. 049-0197 STA. 45+00.00

SHEET NO. SB1 OF SB10 SHEETS

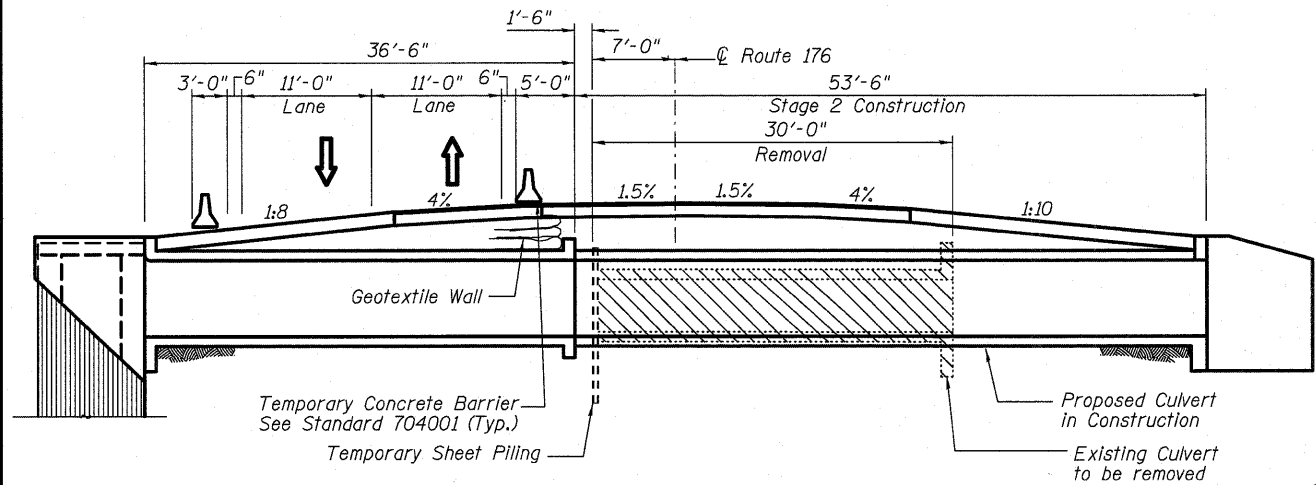
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| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 35 |
| DATE: 11-30-2011 | | | ILLINOIS FED. AID PROJECT | |

CONTRACT NO. 62187



**STAGE 1 REMOVAL & CONSTRUCTION
LOOKING EAST**

Dimensions are at right angles to \odot roadway



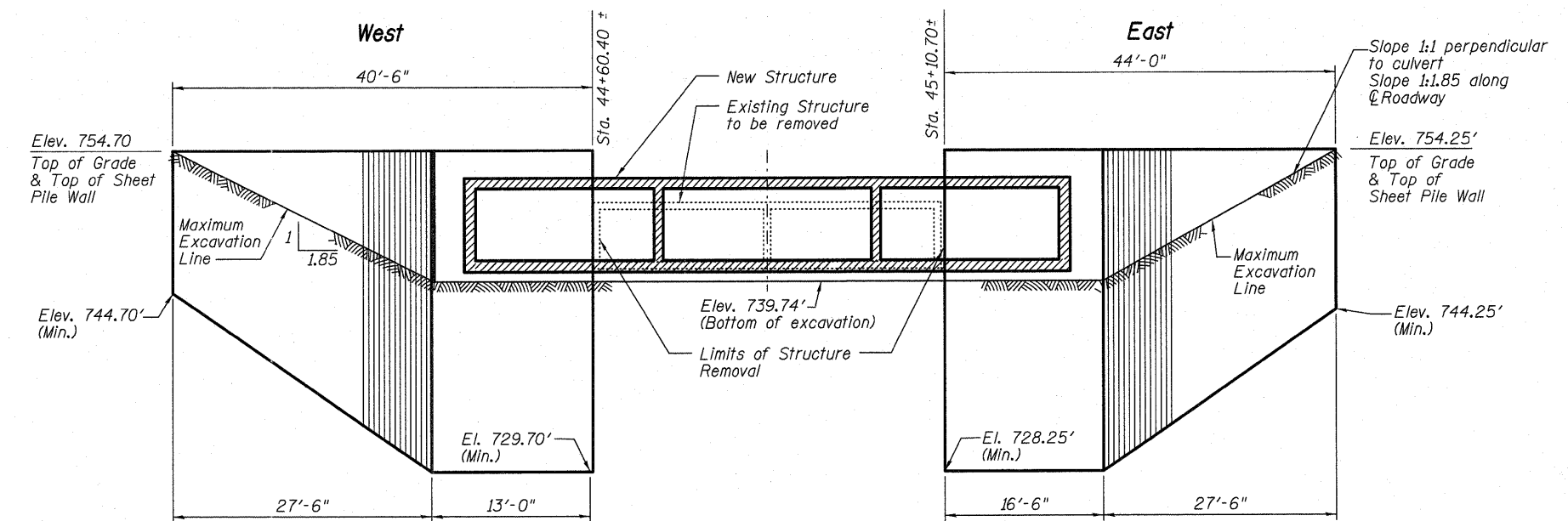
**STAGE 2 REMOVAL & CONSTRUCTION
LOOKING EAST**

Dimensions are at right angles to \odot roadway

NOTES:

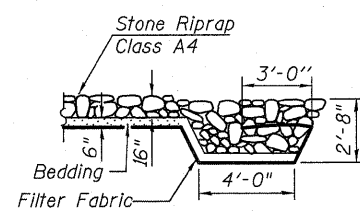
1. Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.
2. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

- Denotes Structure to be Removed.

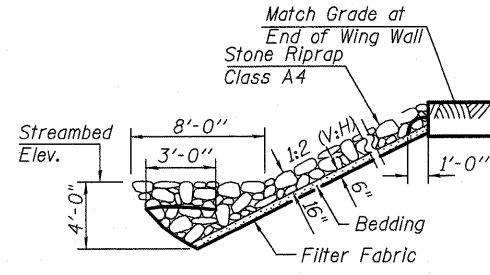


ELEVATION TEMPORARY SHEET PILING

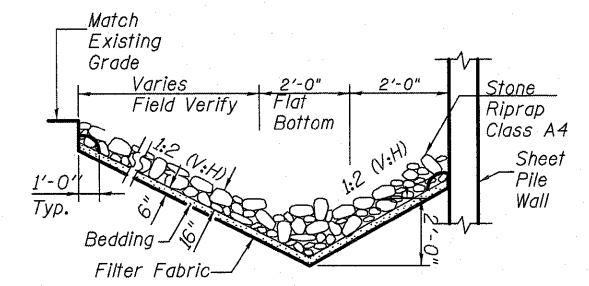
Slopes and Distances Shown Parallel to Roadway
Minimum Section Modulus = 18.90 in³/ft.



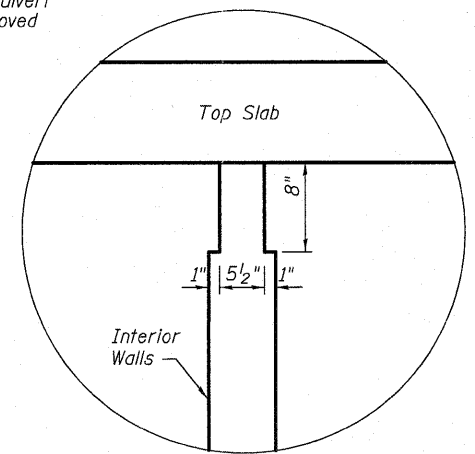
**SECTION A-A
RIPRAP FLANK DETAIL**



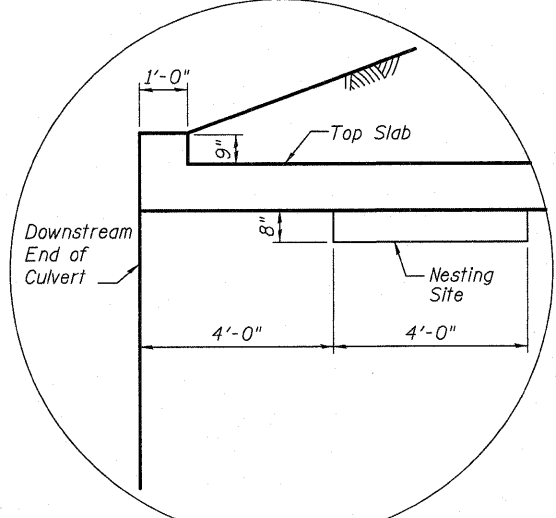
**SECTION B-B
RIPRAP ANCHOR DETAIL**



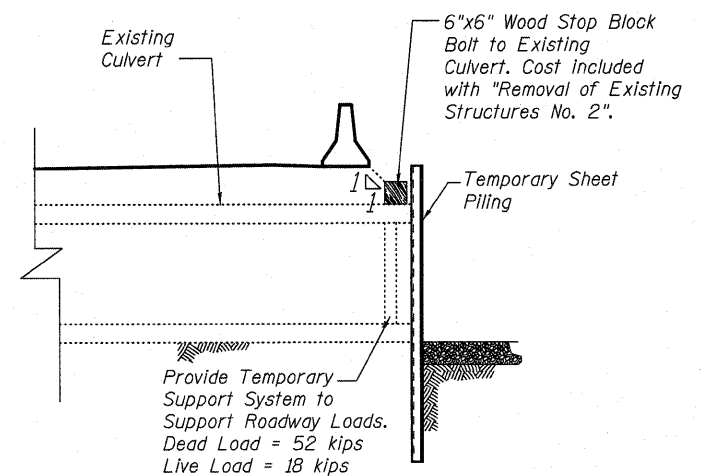
**SECTION C-C
RIPRAP ANCHOR DETAIL**



PHOEBE NESTING DETAIL (Section)



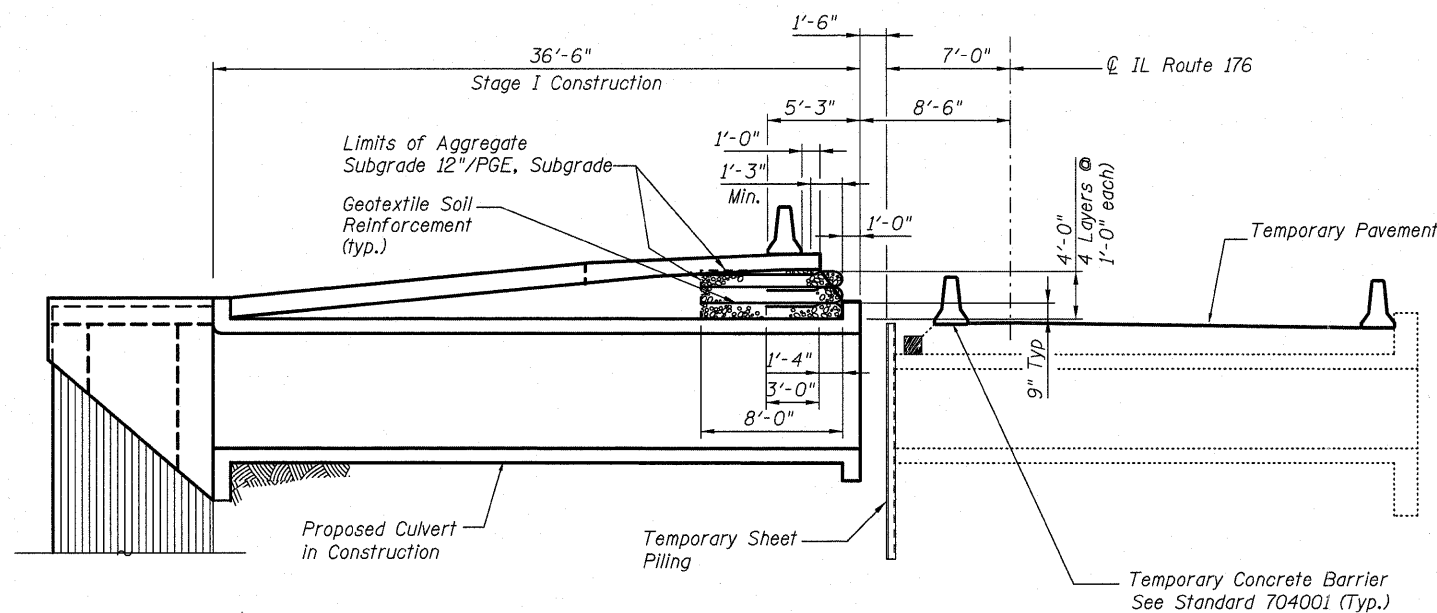
PHOEBE NESTING DETAIL (Elev.)



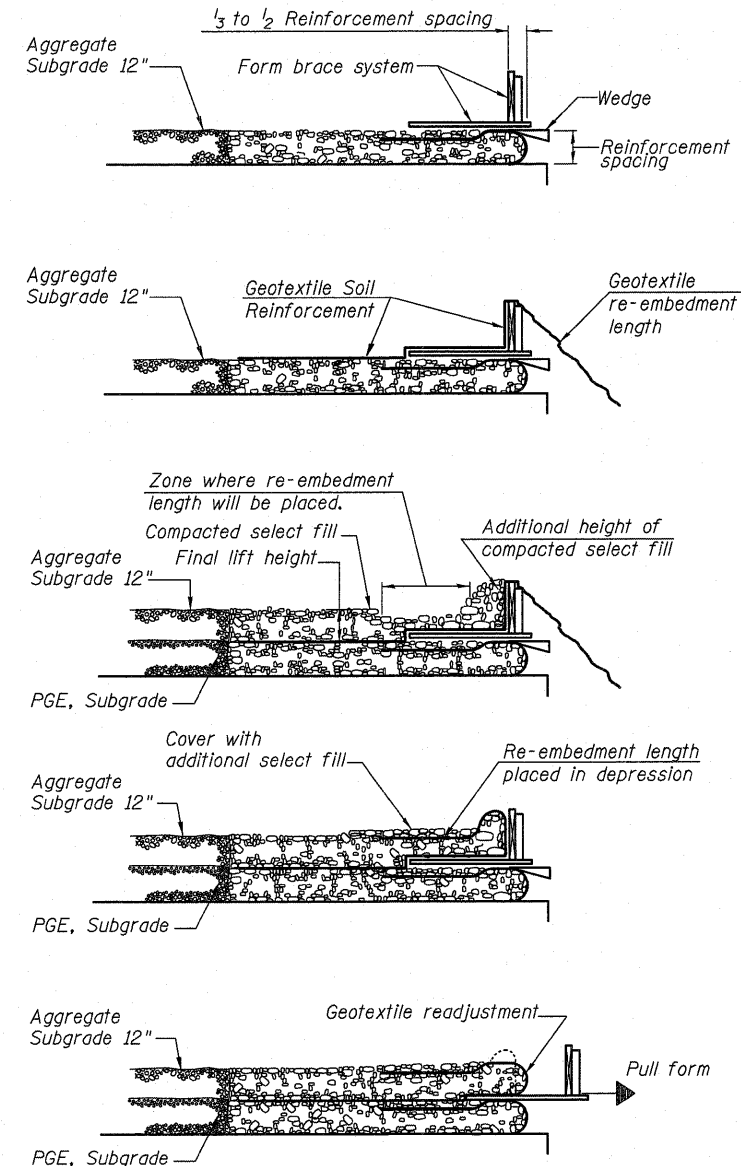
EDGE DETAIL

NOTE:
Notch for Phoebe Nesting site shall be formed by rough-finished board attached to and removed with formwork.

| | | | | | | | | | | |
|--|--------------|----------------|-----------|---|--|--------------------|---------------------------|--------|--------------|-----------|
| | USER NAME = | DESIGNED - JSG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STAGE CONSTRUCTION DETAILS STRUCTURE No. 049-0197 STA. 45+00.00 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = | CHECKED - LRG | REVISED - | | | 335 | 145 X-T | LAKE | 80 | 36 |
| | PLOT DATE = | DRAWN - MPS | REVISED - | | | CONTRACT NO. 62187 | | | | |
| | | CHECKED - JXH | REVISED - | | | DATE: 11-16-2011 | ILLINOIS FED. AID PROJECT | | | |



TYPICAL SECTION
(Looking East)

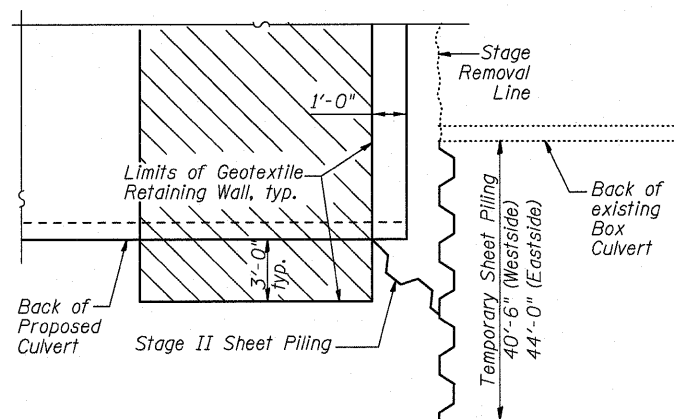


1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact select fill material in lifts to final lift height, create ($\pm 3'$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3'$) to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

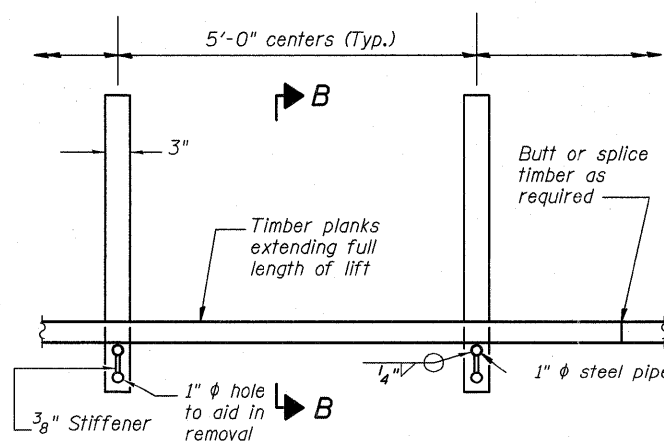
TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Notes:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 20 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

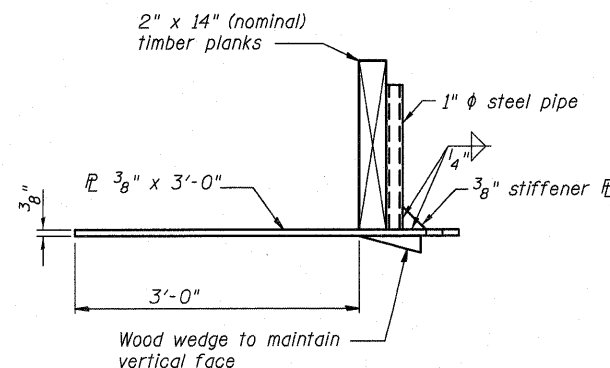
Aggregate Subgrade 12" and PGE, Subgrade are billed with the Roadway.



PARTIAL PLAN AT WEST END



PLAN



SECTION B-B

GEOTEXTILE TEMPORARY FORM BRACE DETAIL

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



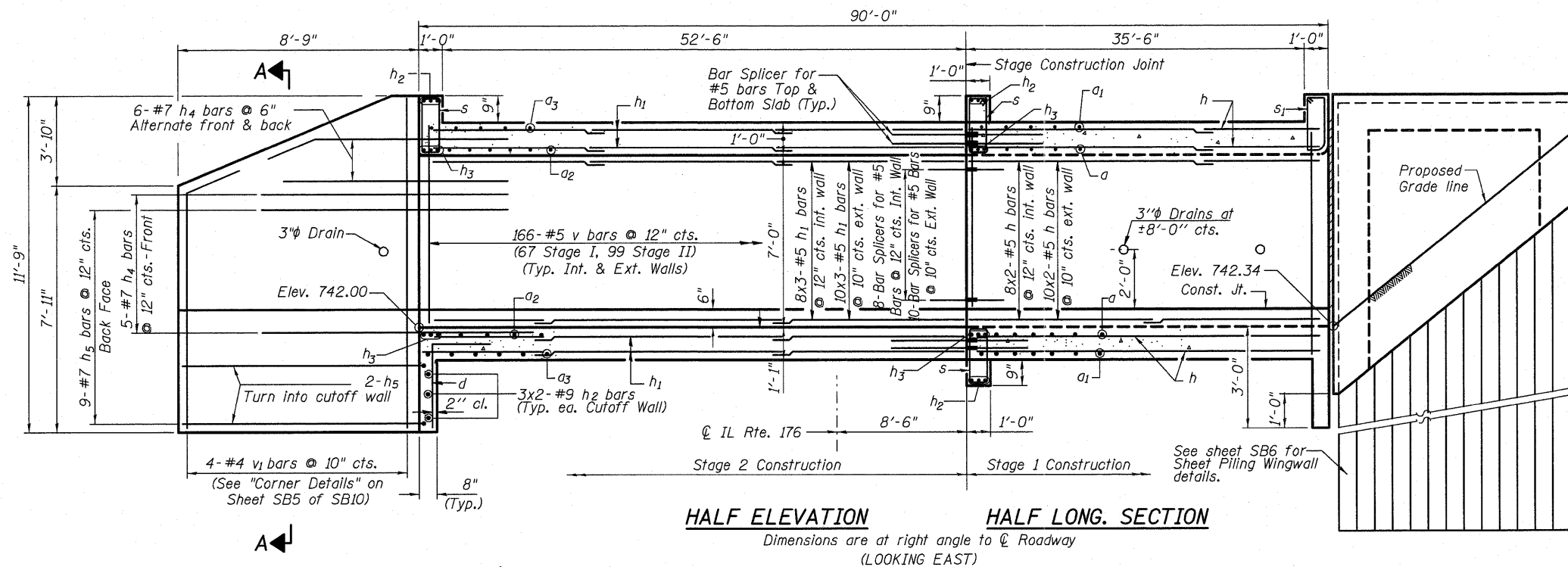
| | | |
|--------------|----------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

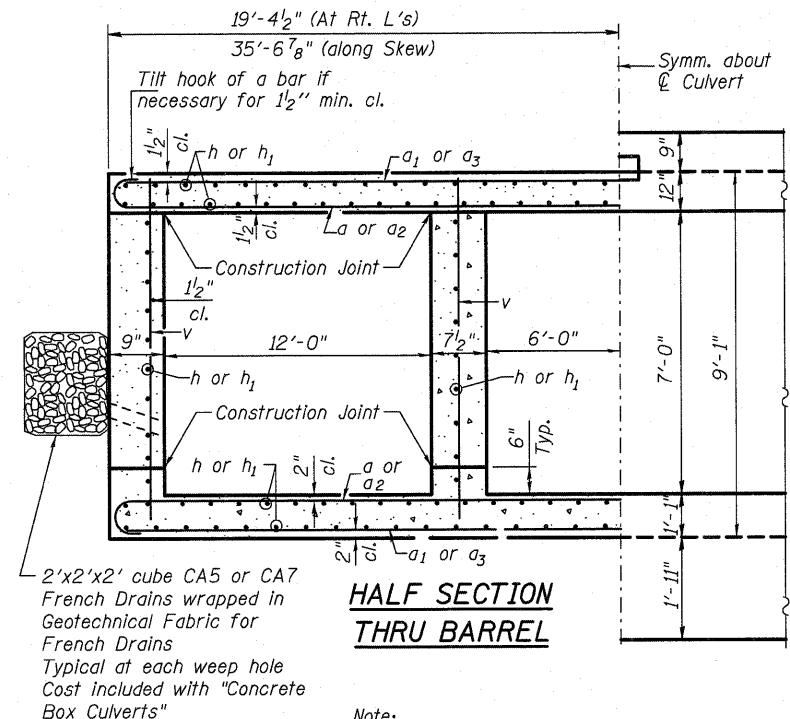
GEOTEXTILE RETAINING WALL
STRUCTURE No. 049-0197 STA. 45 + 00.00

SHEET NO. SB3 OF SB10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------|---------------------------|--------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 37 |
| CONTRACT NO. 62187 | | | | |
| DATE: 09-14-2011 | | ILLINOIS FED. AID PROJECT | | |



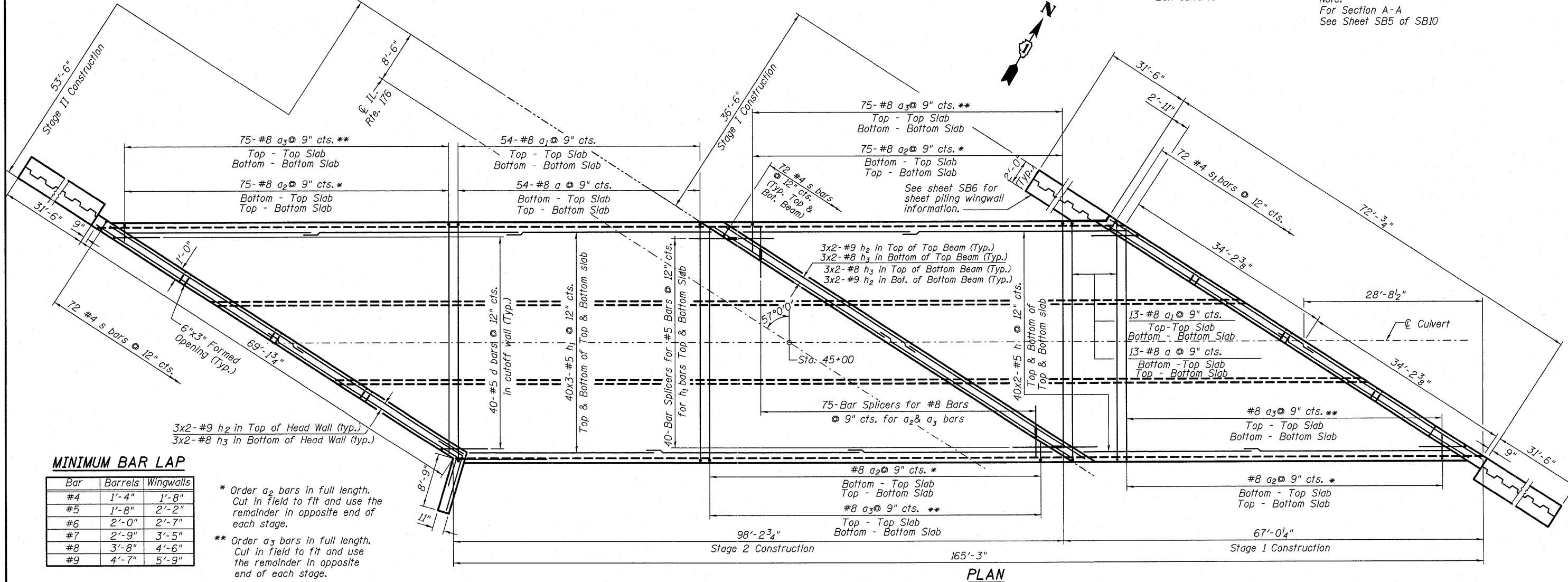
HALF ELEVATION HALF LONG SECTION
 Dimensions are at right angle to \varnothing Roadway (LOOKING EAST)



HALF SECTION THRU BARREL

2'x2'x2' cube CA5 or CA7 French Drains wrapped in Geotechnical Fabric for French Drains Typical at each weep hole Cost included with "Concrete Box Culverts"

Note:
 For Section A-A
 See Sheet SB5 of SB10



PLAN

MINIMUM BAR LAP

| Bar | Barrels | Wingwalls |
|-----|---------|-----------|
| #4 | 1'-4" | 1'-8" |
| #5 | 1'-8" | 2'-2" |
| #6 | 2'-0" | 2'-7" |
| #7 | 2'-9" | 3'-5" |
| #8 | 3'-8" | 4'-6" |
| #9 | 4'-7" | 5'-9" |

* Order a_2 bars in full length. Cut in field to fit and use the remainder in opposite end of each stage.
 ** Order a_3 bars in full length. Cut in field to fit and use the remainder in opposite end of each stage.



USER NAME =
 PLOT SCALE =
 PLOT DATE =

DESIGNED - JSG
 CHECKED - LRG
 DRAWN - MPS
 CHECKED - JXH

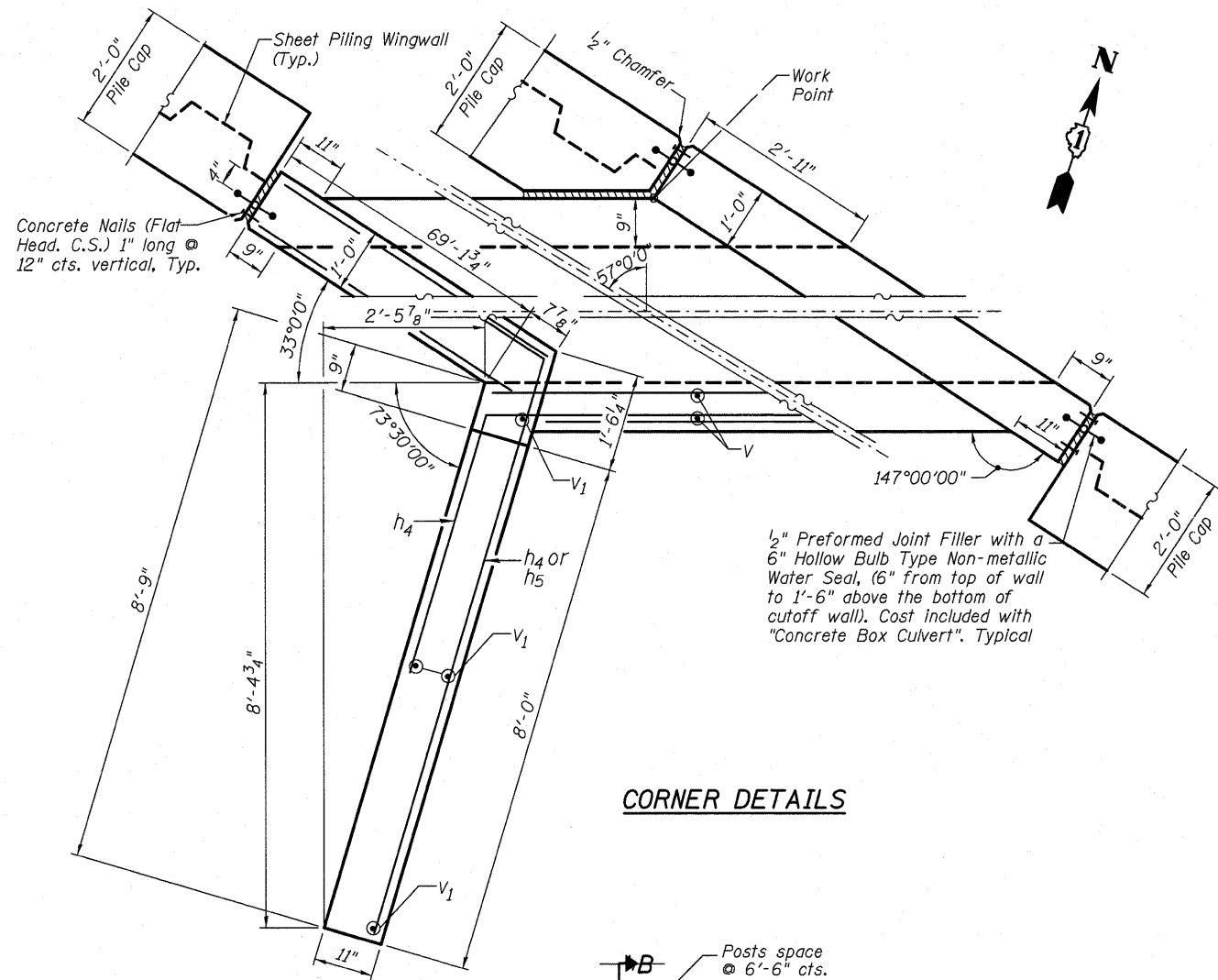
REVISED -
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

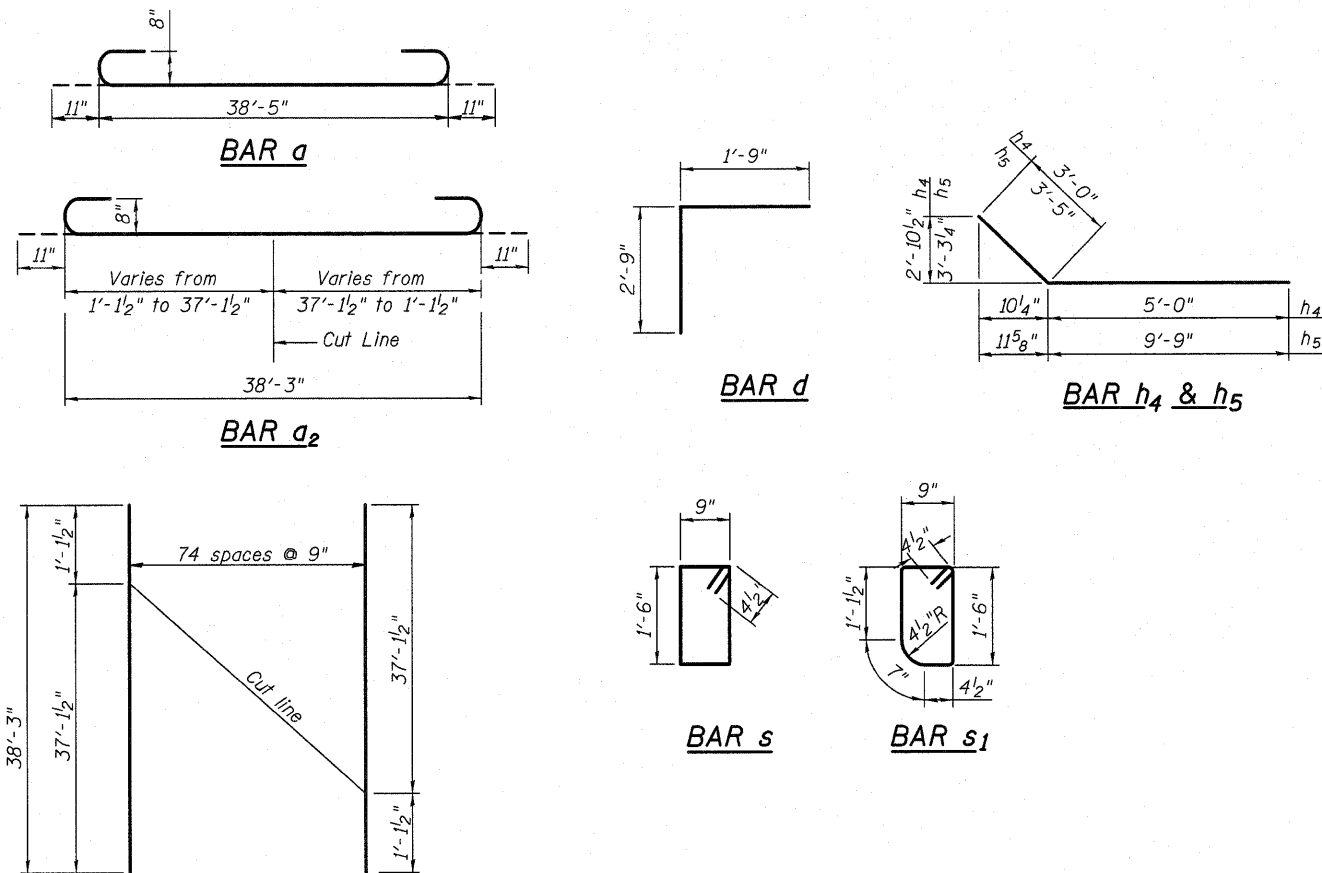
CULVERT PLAN AND DETAILS
 STRUCTURE No. 049-0197 STA. 45+00.00

SHEET NO. SB4 OF SB10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------|--------|---------------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 38 |
| DATE: 11-30-2011 | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 62187 | |



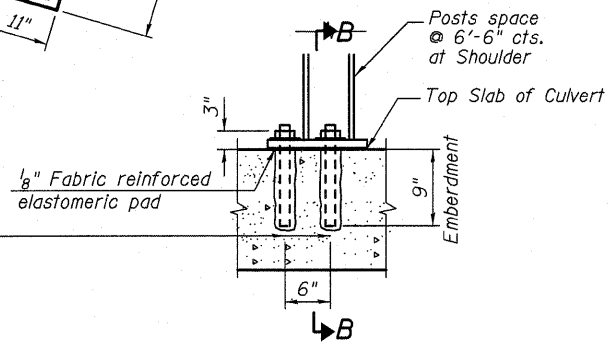
CORNER DETAILS



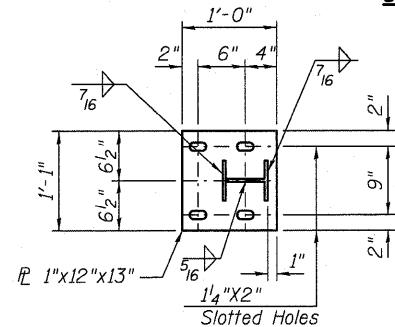
FIELD CUTTING DIAGRAM FOR a2 & a3 BARS

Order a2 & a3 bars in full length. Cut in field and use the remainder of bars in opposite end.

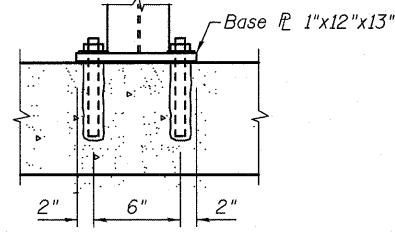
Drill & Epoxy Grout 1" Dia. H.S. Threaded Anchor Rod with Hex nuts and lock washer, drill and set according to Article 509.06 of the Standard Specification (4 each per post) Cost included with "Steel Plate Beam Guard Rail, Attached to Structures".



GUARDRAIL ANCHOR DETAIL

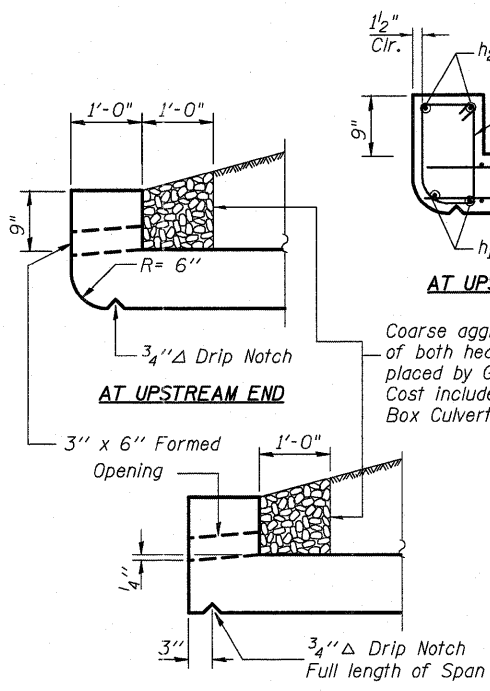


BASE PLATE DETAIL



SECTION B-B

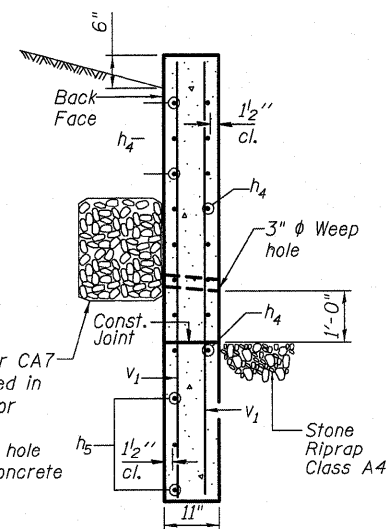
See Standard 630101 for additional information not shown.



AT DOWNSTREAM END

DRAIN DETAIL

2'x2'x2' cube CA5 or CAT French Drains wrapped in Geotechnical Fabric for French Drains Typical at each weep hole Cost included with "Concrete Box Culverts"

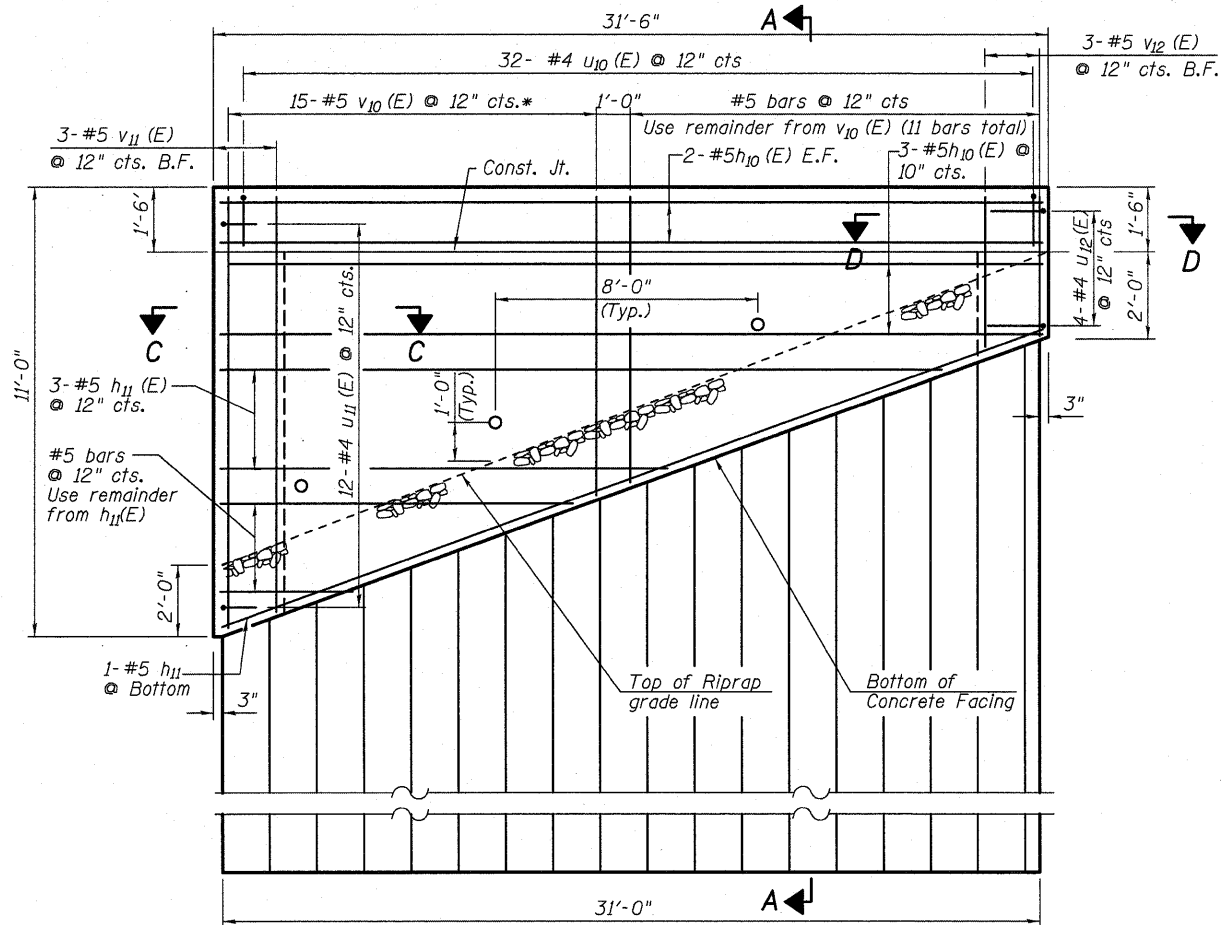


SECTION A-A

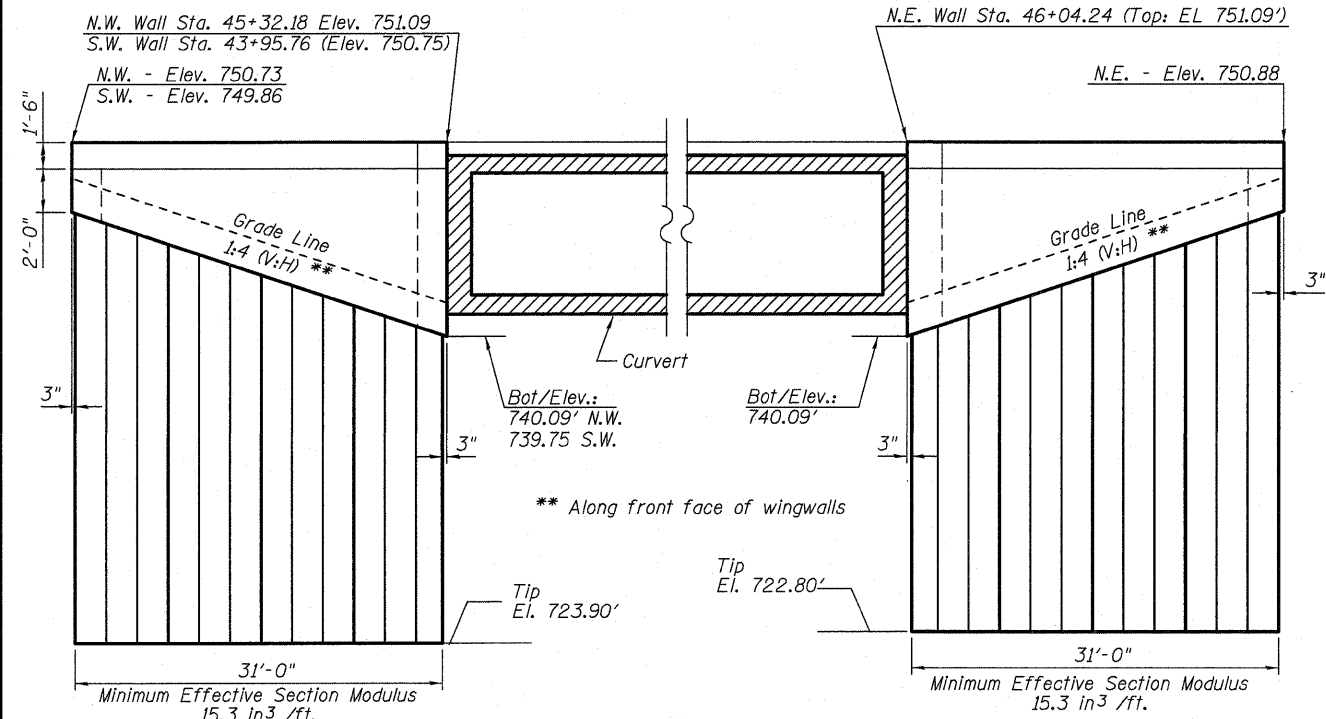
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|-----------------------|-----|---------|---------|-------|
| a | 134 | #8 | 40'-3" | U |
| a1 | 134 | #8 | 38'-5" | U |
| a2 | 300 | #8 | 40'-1" | U |
| a3 | 300 | #8 | 38'-3" | U |
| d | 80 | #4 | 4'-5" | I |
| h | 392 | #5 | 34'-4" | I |
| h1 | 588 | #5 | 33'-9" | I |
| h2 | 36 | #9 | 38'-3" | I |
| h3 | 36 | #8 | 37'-9" | I |
| h4 | 11 | #7 | 8'-0" | I |
| h5 | 9 | #7 | 13'-2" | I |
| s | 216 | #4 | 5'-3" | I |
| s1 | 72 | #4 | 5'-1" | I |
| v | 664 | #5 | 8'-8" | I |
| v1 | 4 | #4 | 11'-5" | I |
| Concrete Box Culverts | | Cu. Yd. | 631.7 | |
| Reinforcement Bars | | Pound | 141,630 | |
| Bar Splicers | | Each | 496 | |

Note: Bars indicated thus 40x3-#5 etc. indicates 40 lines of bars with 3 lengths per line.



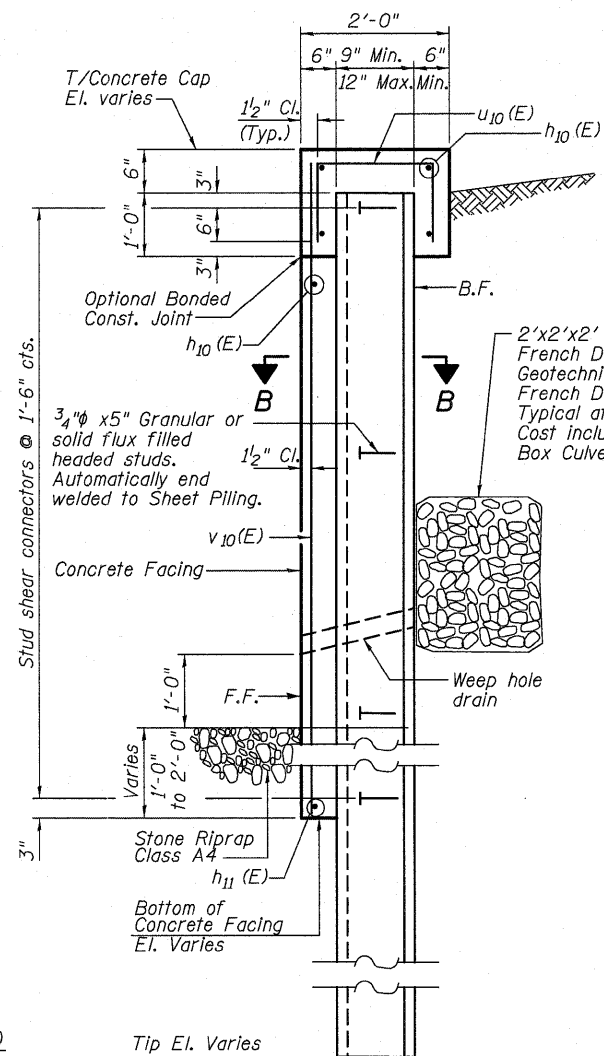
**NE & SE WINGWALL ELEVATION
NW - OPPOSITE HAND**



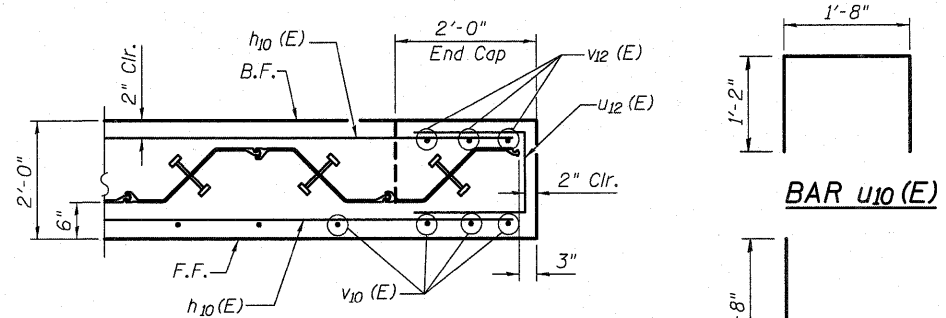
NORTHWEST & SOUTHWEST WINGWALLS

ELEVATION

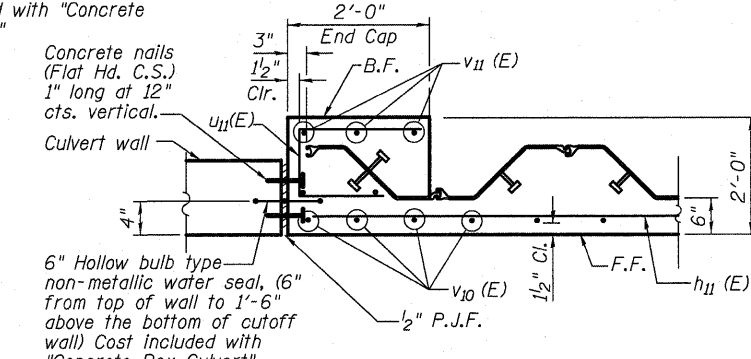
NORTHEAST WINGWALL



SECTION A-A



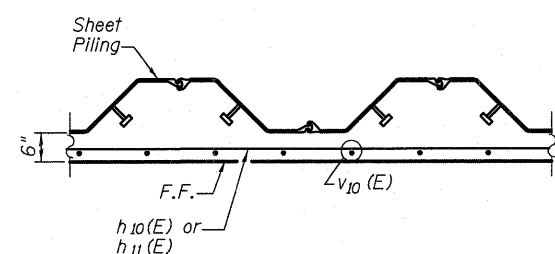
END CAP DETAIL (SECT. D-D)



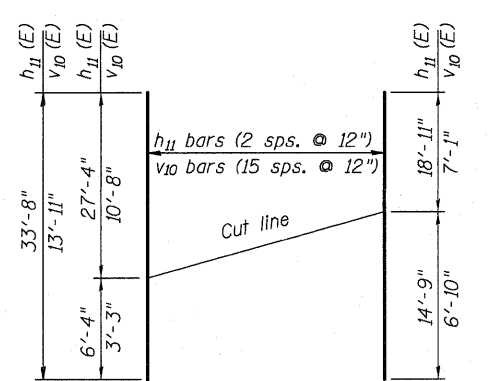
END CAP DETAIL (SECT. C-C)

**BILL OF MATERIAL
NW, NE & SW WINGWALLS**

| Bar | No. | Size | Length | Shape |
|------------------------------------|---------|------|---------|-------|
| $h_{10}(E)$ | 21 | #5 | 31'-3" | — |
| $h_{11}(E)$ | 12 | #5 | 33'-8" | — |
| $v_{10}(E)$ | 45 | #5 | 13'-11" | — |
| $v_{11}(E)$ | 9 | #5 | 10'-3" | — |
| $v_{12}(E)$ | 9 | #5 | 3'-3" | — |
| $u_{10}(E)$ | 96 | #4 | 4'-0" | □ |
| $u_{11}(E)$ | 36 | #4 | 4'-1" | □ |
| $u_{12}(E)$ | 12 | #4 | 5'-0" | □ |
| Stud Shear Connectors | Each | | 395 | |
| Reinforcement Bars Epoxy Coated | Pound | | 2,290 | |
| Permanent Steel Sheet Piling | Sq. Ft. | | 2,484 | |
| Concrete Box Culverts | Cu. Yd. | | 33.5 | |



SECTION B-B



FIELD CUTTING DIAGRAM

**WINGWALL
MIN. BAR LAP**

#4 1'-8"
#5 2'-2"

NOTES:

- Permanent Steel Pile Walls shall be backfilled prior to constructing the concrete facing.
- Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.
- If the Contractor chooses to alter the permanent cantilevered sheet piling wingwall design requirements shown on the plans, design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- All dimensions are in feet except as noted.
F.F. - Front Face
B.F. - Back Face
E.F. - Each Face
P.J.F. - Preformed Joint Filler



| | | |
|--------------|----------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH | REVISED - |

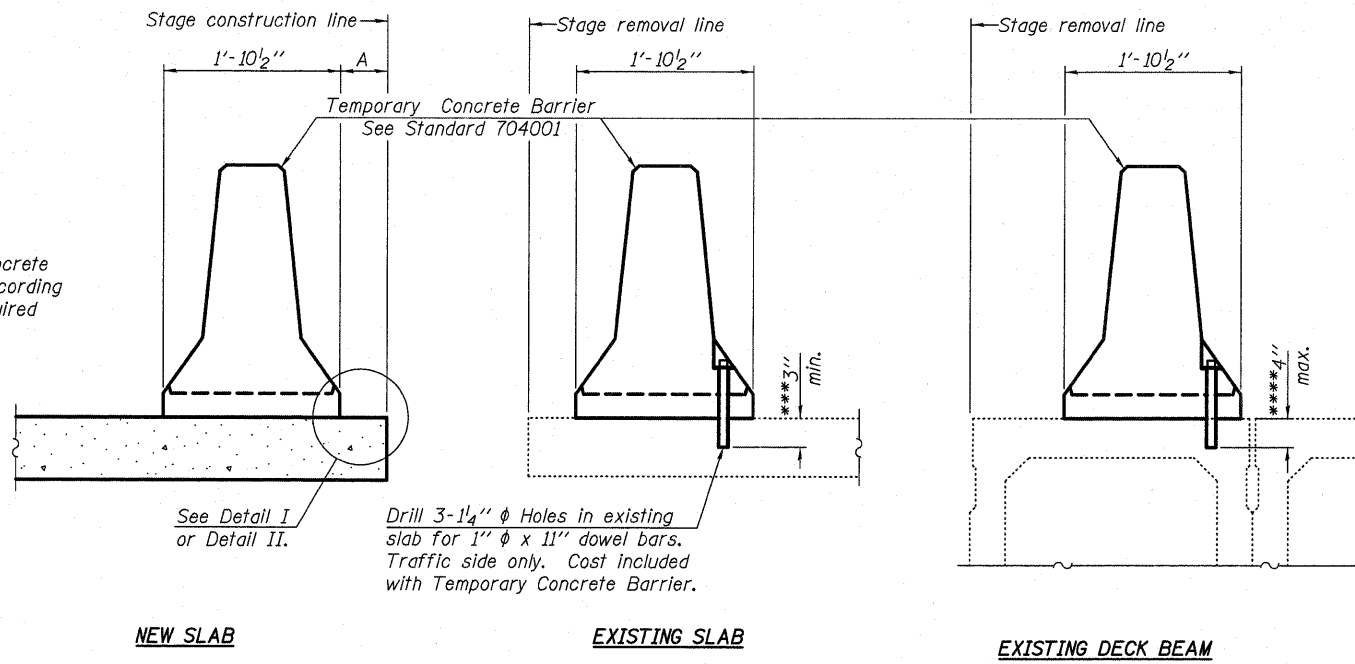
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHEET PILING WINGWALL DETAILS
STRUCTURE No. 049-0197 STA. 45+00.00**

SHEET NO. SB6 OF SB10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------|--------|---------------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 40 |
| DATE: 11-30-2011 | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 62187 | |

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

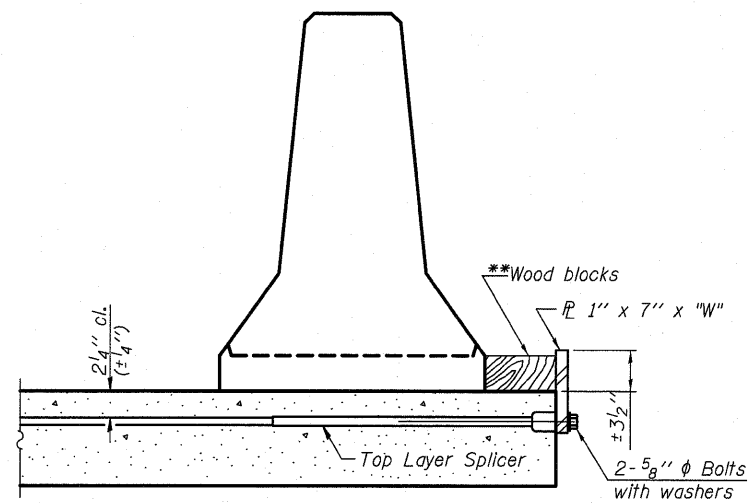
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

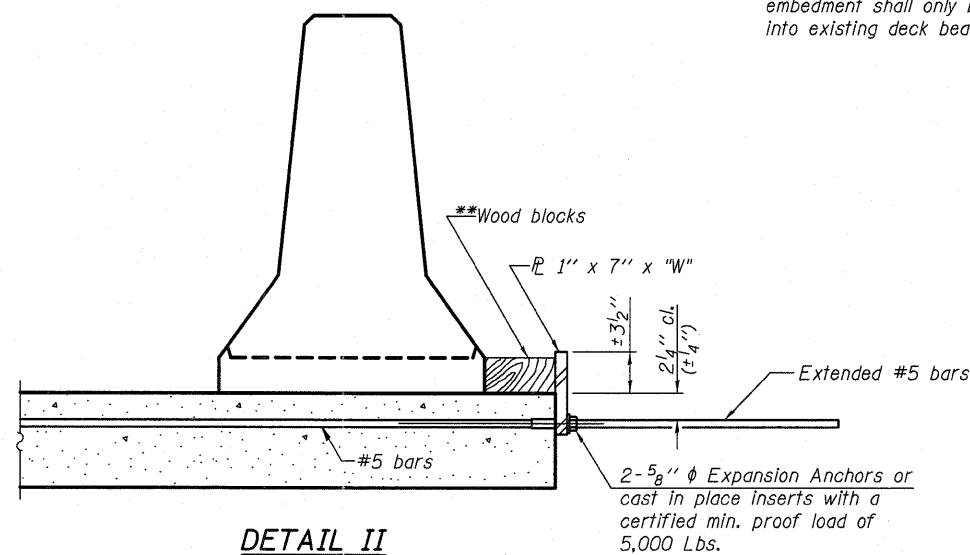
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

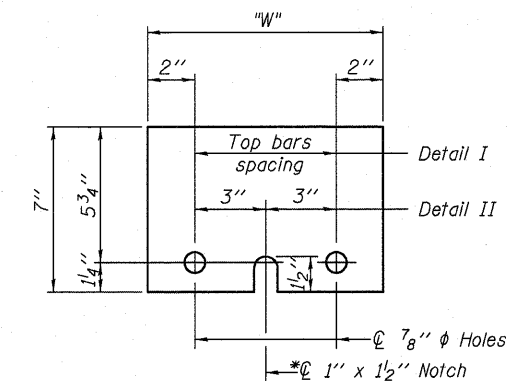
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x "W"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

R-27

7-1-10



| | | |
|--------------|----------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH | REVISED - |

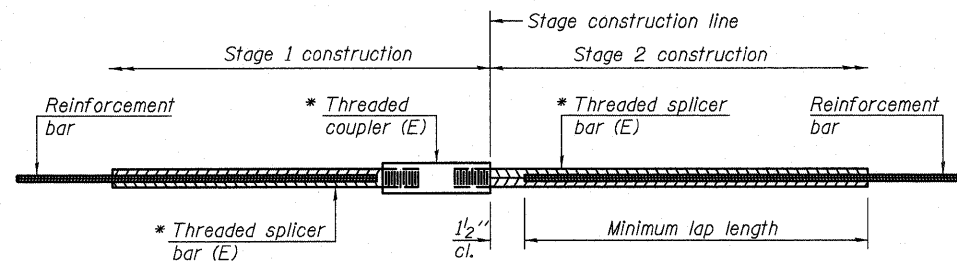
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE No. 049-0197 STA. 45 + 00.00

SHEET NO. SBT OF SB10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------|--------|---------------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 41 |
| DATE: 09-14-2011 | | | ILLINOIS FED. AID PROJECT | |

CONTRACT NO. 62187



STANDARD BAR SPLICER ASSEMBLY

No. required = 496

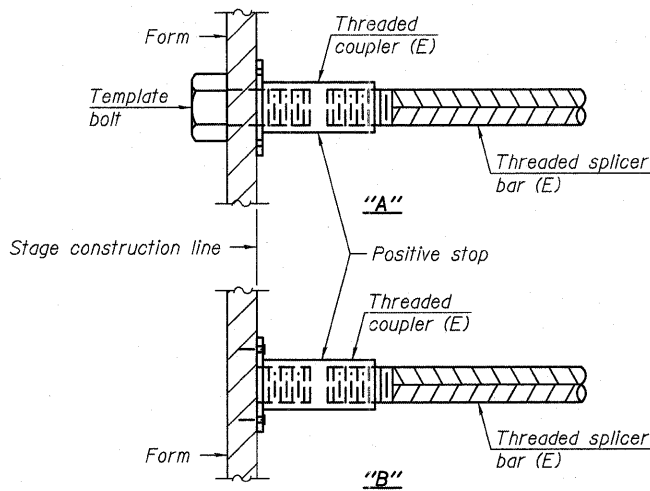
| Minimum Lap Lengths | | | | | |
|------------------------|---------|---------|---------|---------|---------|
| Bar size to be spliced | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-3" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 2'-10" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-4" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 4'-6" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 5'-10" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 7'-5" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

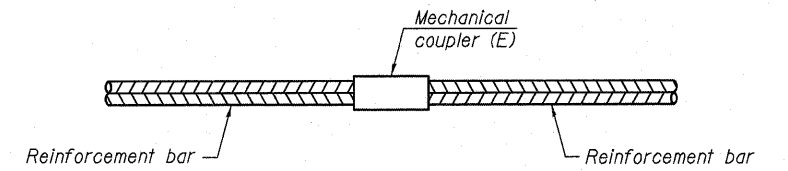
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|-----------------------------|----------|-------------------------|------------------------------|
| Top Slab (Transverse) | #8 | 150 | Table 1 |
| Top Slab (Longitudinal) | #5 | 80 | Table 1 |
| Exterior Walls (Horizontal) | #5 | 16 | Table 1 |
| Interior Walls (Horizontal) | #5 | 20 | Table 1 |
| Bottom Slab (Transverse) | #8 | 150 | Table 1 |
| Bottom Slab (Longitudinal) | #5 | 80 | Table 1 |



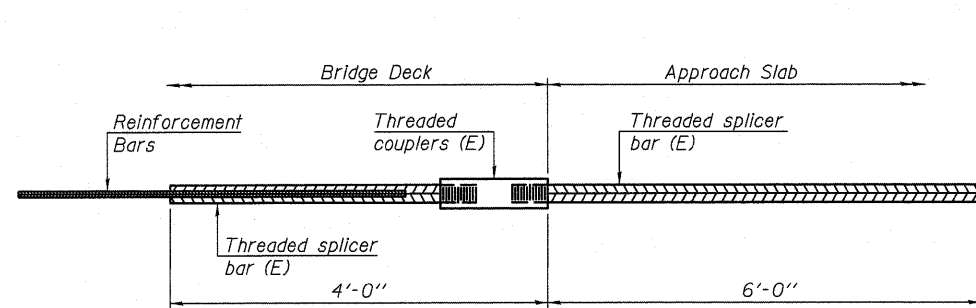
INSTALLATION AND SETTING METHODS

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



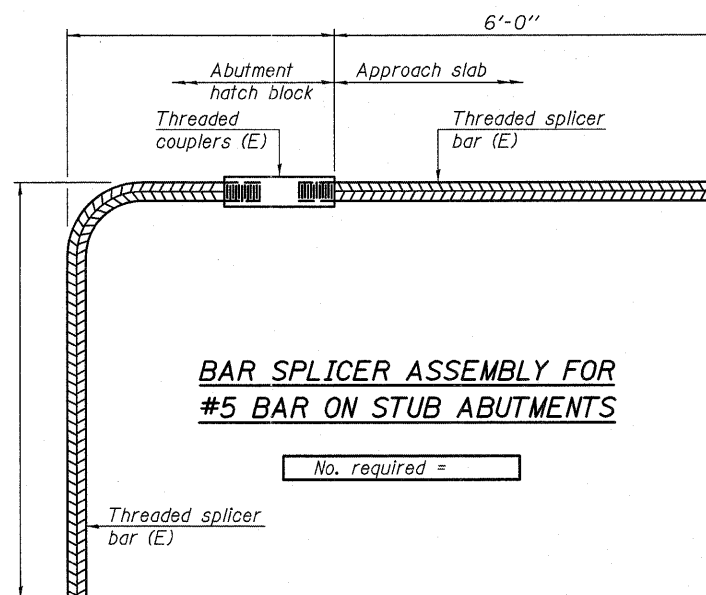
STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| | | |
| | | |
| | | |
| | | |



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

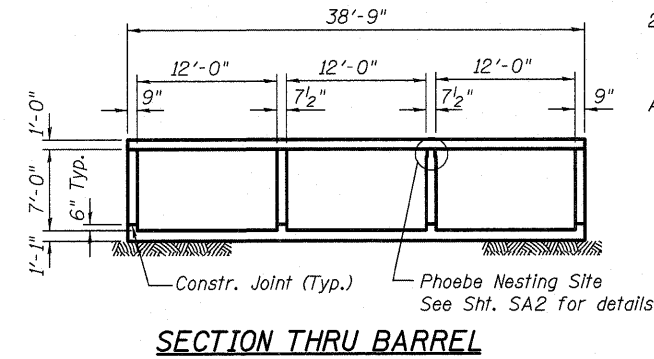
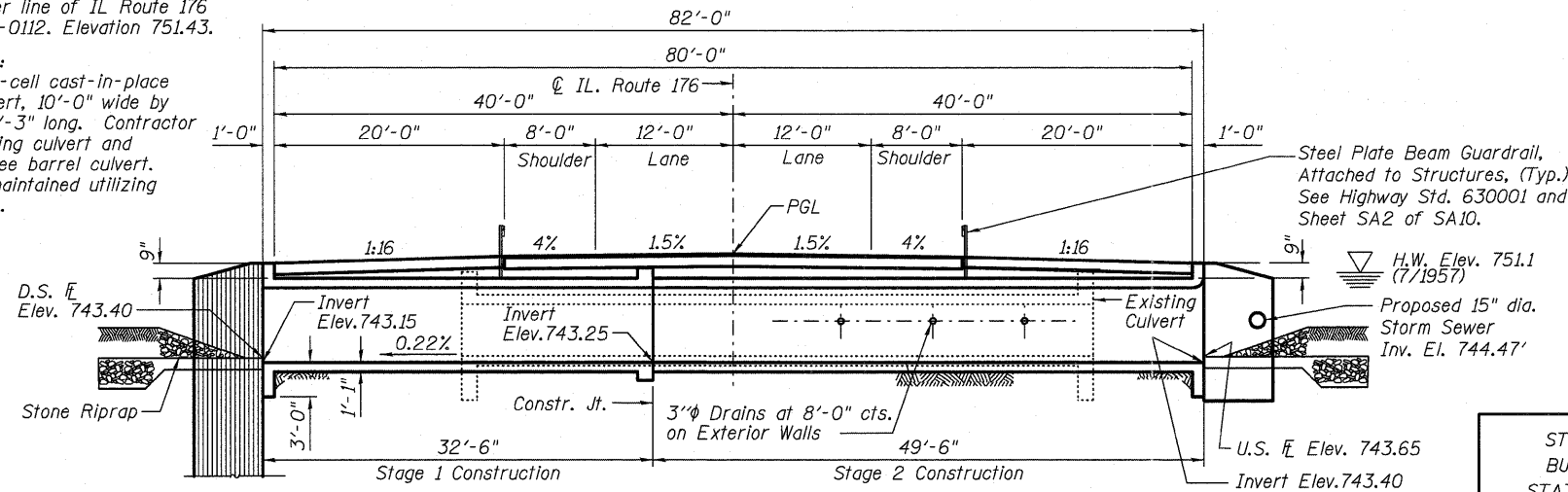
No. required =

NOTES

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

Bench Mark:
"CJ" cut in the east end of the 50-foot headwall
north of the center line of IL Route 176
Structure No. 049-0112. Elevation 751.43.

Existing Structure:
SN-049-0112 Two-cell cast-in-place
concrete box culvert, 10'-0" wide by
5'-0" high, by 53'-3" long. Contractor
shall remove existing culvert and
construct new three barrel culvert.
Traffic shall be maintained utilizing
stage construction.
No salvage.



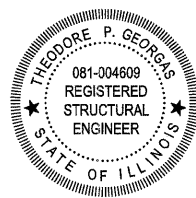
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications, 17th Edition
LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.
DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

STATION 54+00
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. 335 SEC. 145 X-T
LOADING HS20
STR. NO. 049-0196

NAME PLATE
See Std. 515001

WATERWAY INFORMATION

| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | | Nat. H.W.E. | Head-Ft. | | Headwater El. | |
|-------------|-----------|----------|-----------------|-------|-------------|----------|-------|---------------|-------|
| | | | Exist. | Prop. | | Exist. | Prop. | Exist. | Prop. |
| Design | 10 | 233 | 100 | 191 | 748.7 | 0.4 | 0.0 | 749.1 | 748.7 |
| Base | 50 | 341 | 100 | 209 | 749.2 | 0.8 | 0.1 | 750.0 | 749.3 |
| Overtopping | 100 | 395 | 100 | 220 | 749.5 | 0.7 | 0.1 | 750.2 | 749.6 |
| Max. Calc. | 500 | 487 | 100 | 230 | 749.8 | 0.6 | 0.2 | 750.4 | 750.0 |



Theodore P. Georgas 11-30-11
Theodore P. Georgas
Licensed Structural Engineer
State of Illinois 081-4609
Expires 11/30/2012

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.
- Reinforcement bars designated (E) shall be epoxy coated.
- At least 6'-0" of the barrel shall be poured monolithically with the concrete wingwall.
- Precast alternate is not allowed.
- For backfilling and embankment, see standard specifications.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

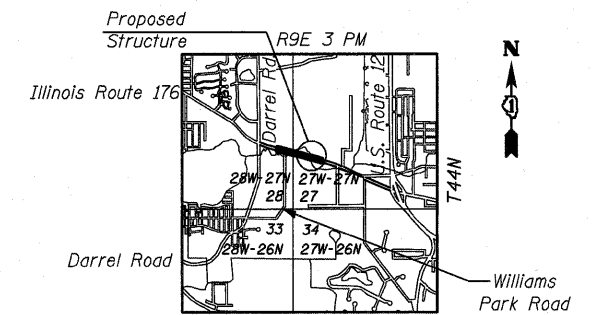
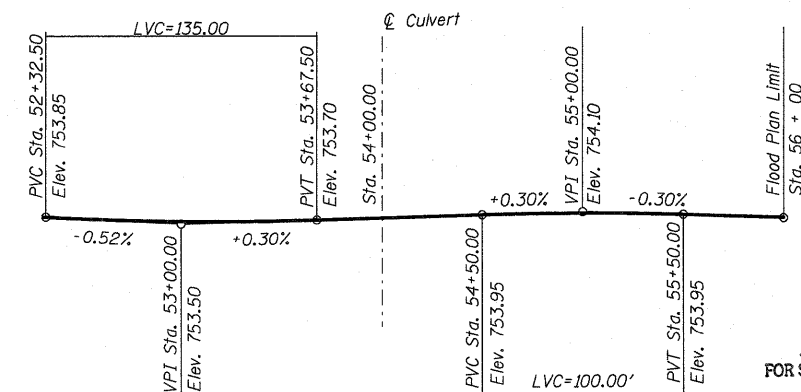
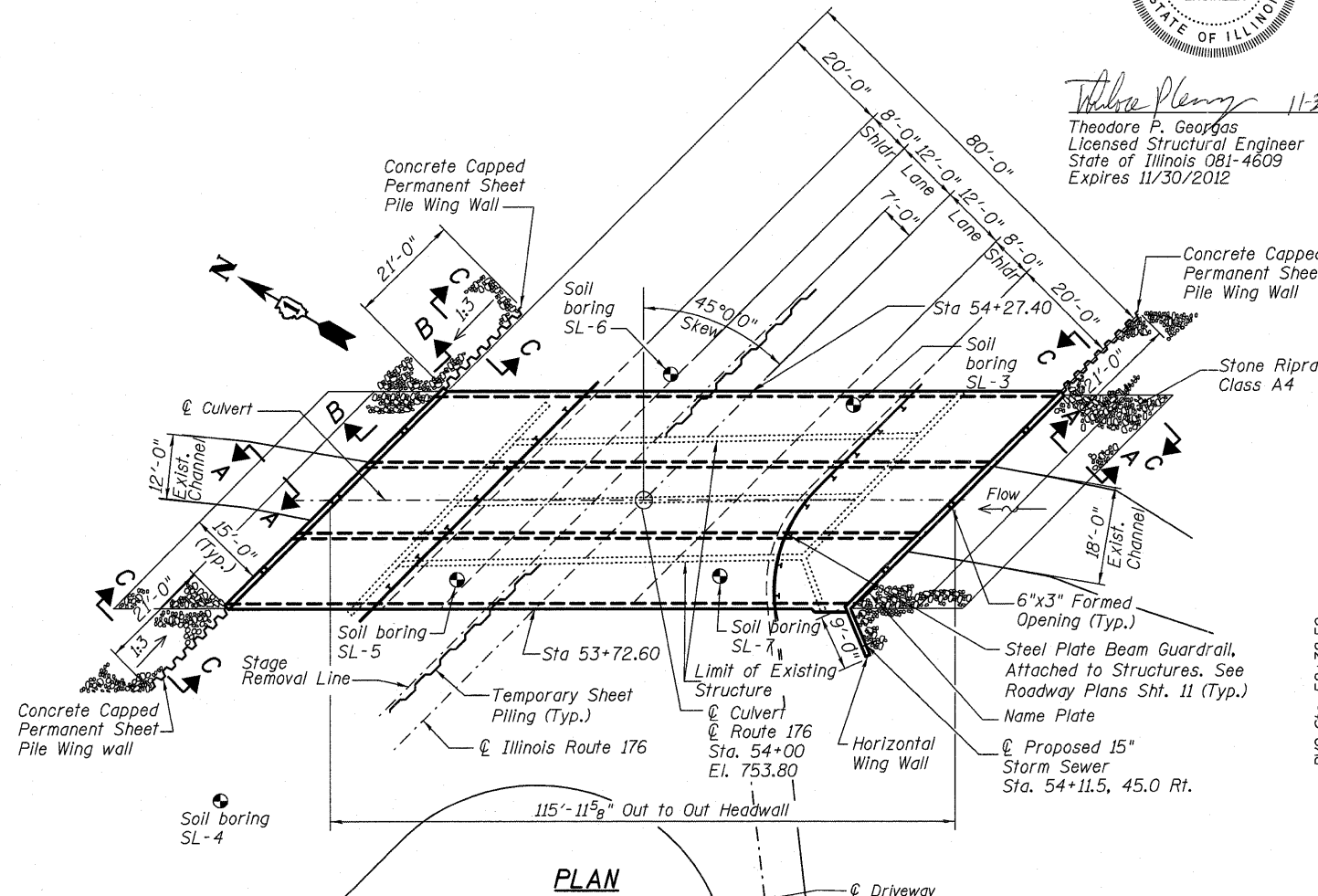
INDEX OF SHEETS

- SA1 - General Plan
- SA2 - Stage Construction Details
- SA3 - Culvert Plan and Details
- SA4 - Sections and Details
- SA5 - Sheet Piling Wingwall Details
- SA6 - Temporary Concrete Barrier
- SA7 - Bar Splicer Assembly Details
- SA8 - Boring Logs
- SA9 - Boring Logs
- SA10 - Boring Logs

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--------------------------------------|---------|---------|
| Stone Riprap, Class A4 | Sq. Yd. | 247 |
| Filter Fabric | Sq. Yd. | 247 |
| Removal of Existing Structures No. 1 | Each | 1 |
| Stud Shear Connectors | Each | 288 |
| Reinforcement Bars | Pound | 100,420 |
| Reinforcement Bars, Epoxy Coated | Pound | 1,750 |
| Bar Splicers | Each | 400 |
| Name Plates | Each | 1 |
| Concrete Box Culverts | Cu. Yd. | 469.6 |
| Temporary Support System, Location 1 | Each | 1 |
| Permanent Steel Sheet Piling | Sq. Ft. | 1,519 |
| Temporary Sheet Piling | Sq. Ft. | 1,948 |

Note: See Roadway Plans for the quantity of "Steel Plate Beams Guardrail, Attached to Structures"



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Carl Bragg
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN
ILLINOIS ROUTE 176 OVER
BANGS LAKE DRAIN
LAKE COUNTY
STA. 54+00

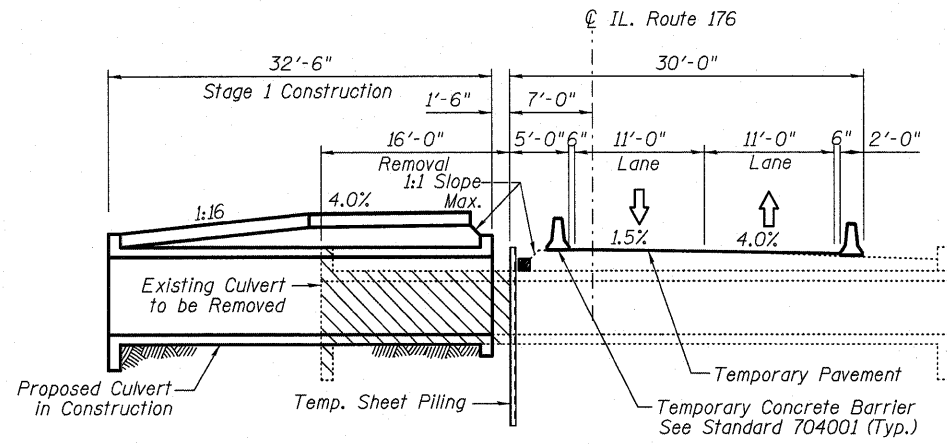


| | | |
|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

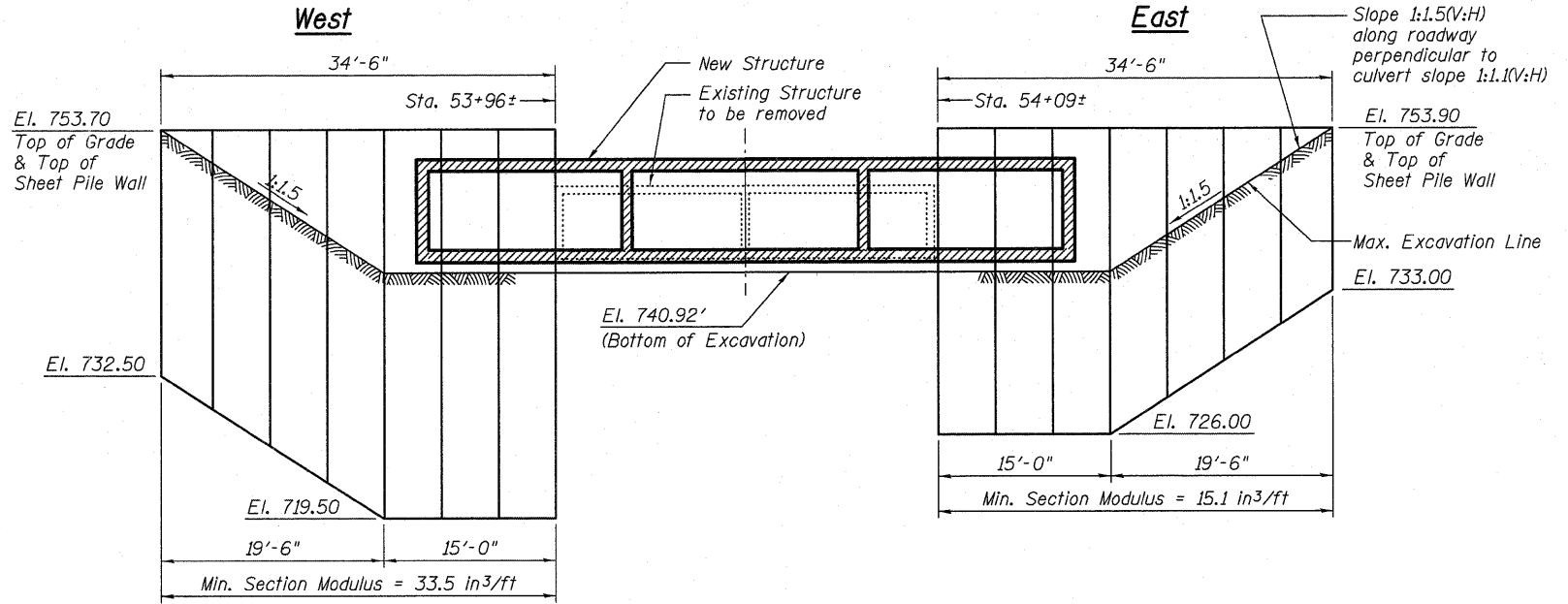
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE No. 049-0196 STA. 54+00.00
SHEET NO. SA1 OF SA10 SHEETS

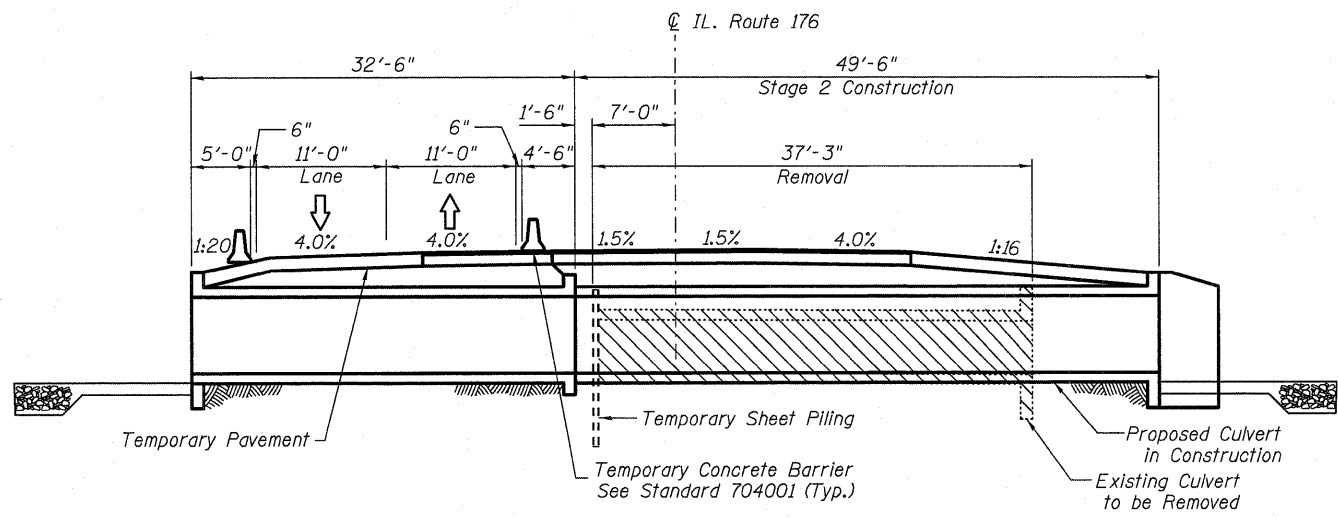
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|--------------------|-----------------|-------------|--|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 45 |
| CONTRACT NO. 62187 | | | DATE: 11-30-2011 [ILLINOIS] FED. AID PROJECT | |



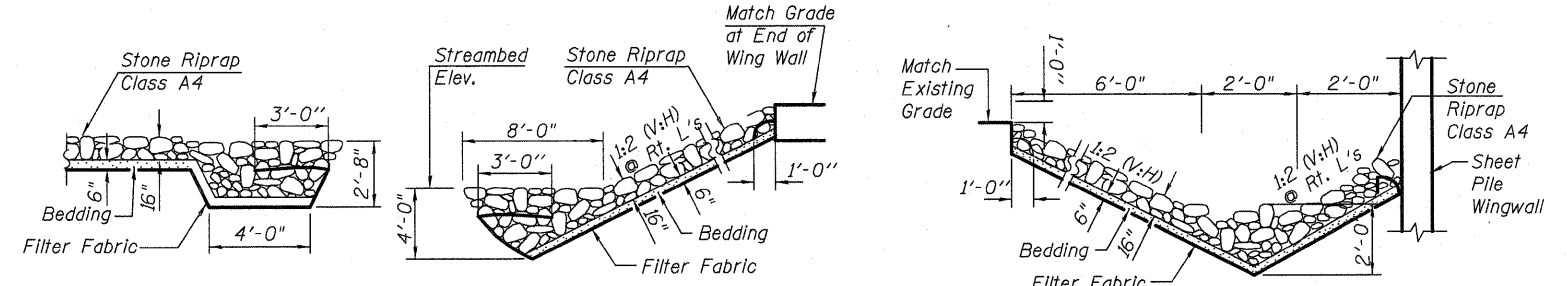
STAGE 1 REMOVAL & CONSTRUCTION
LOOKING EAST
 (Dimensions are @ Rt. Angle to C Roadway)



ELEVATION TEMPORARY SHEET PILING
 (Slopes and Distances Shown Parallel to Roadway)



STAGE 2 REMOVAL & CONSTRUCTION
LOOKING EAST
 (Dimensions are @ Rt. Angle to C Roadway.)

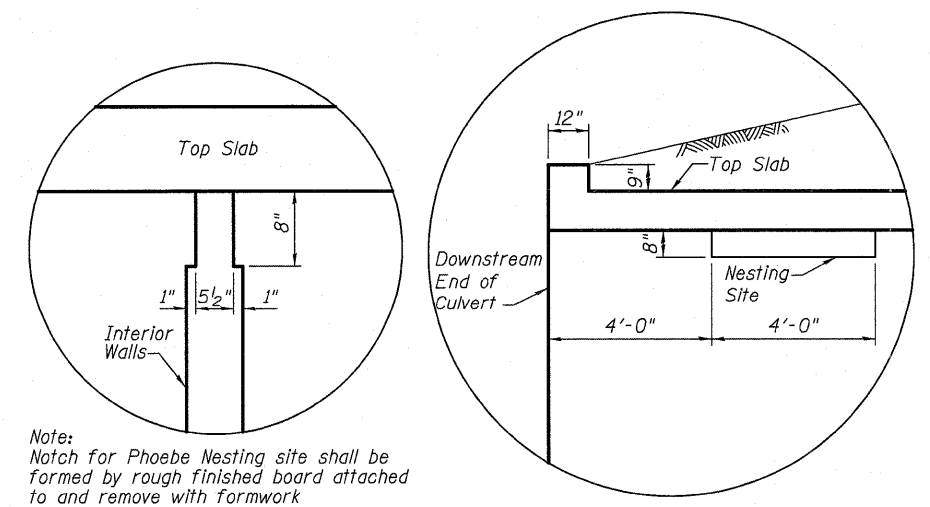


SECTION A-A RIPRAP FLANK DETAILS
SECTION B-B RIPRAP ANCHOR DETAIL
SECTION C-C RIPRAP ANCHOR DETAIL

- Denotes structure to be removed.

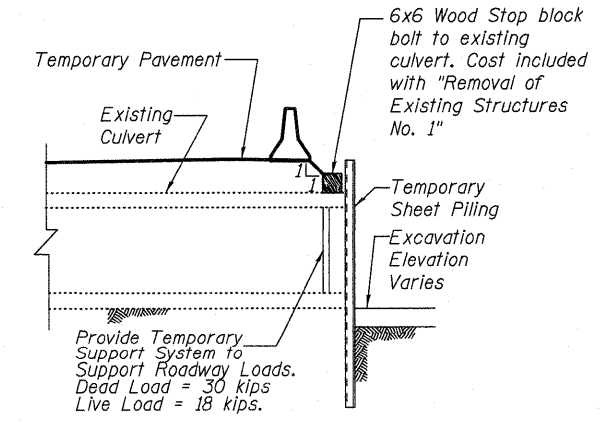
NOTES:

- 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 will be required for review and acceptance by the Engineer.

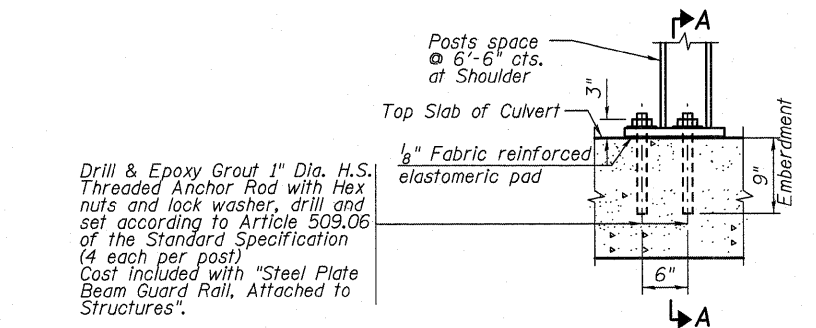


PHOEBE NESTING DETAIL (Section) **PHOEBE NESTING DETAIL (Elev.)**

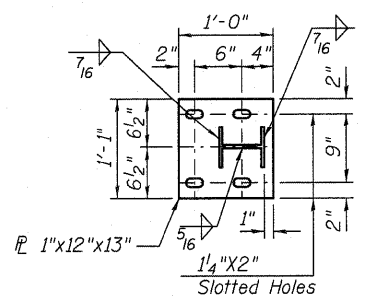
Note:
 Notch for Phoebe Nesting site shall be formed by rough finished board attached to and remove with formwork



EDGE DETAIL



GUARDRAIL ANCHOR DETAIL



BASE PLATE DETAIL

See Standard 630101 for additional information not shown.

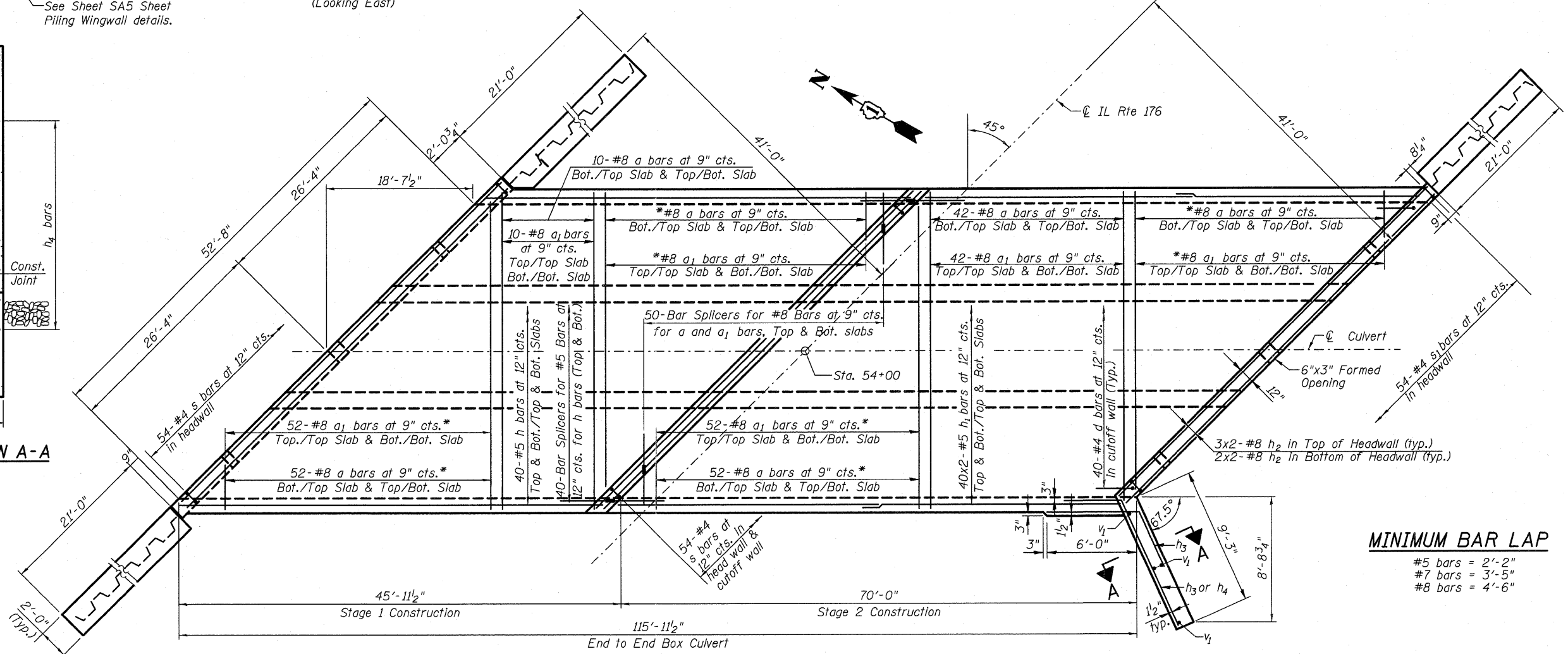
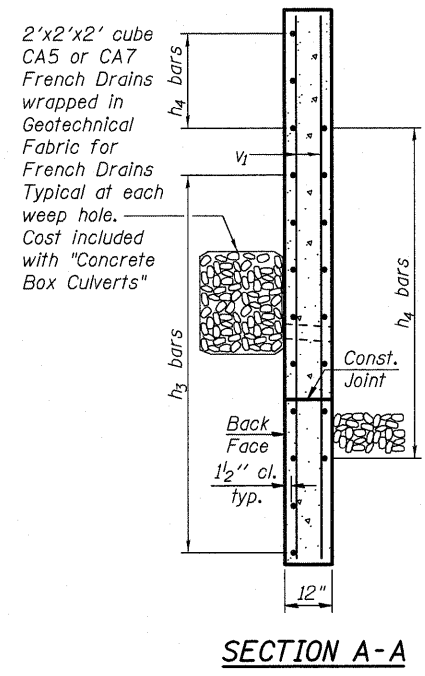
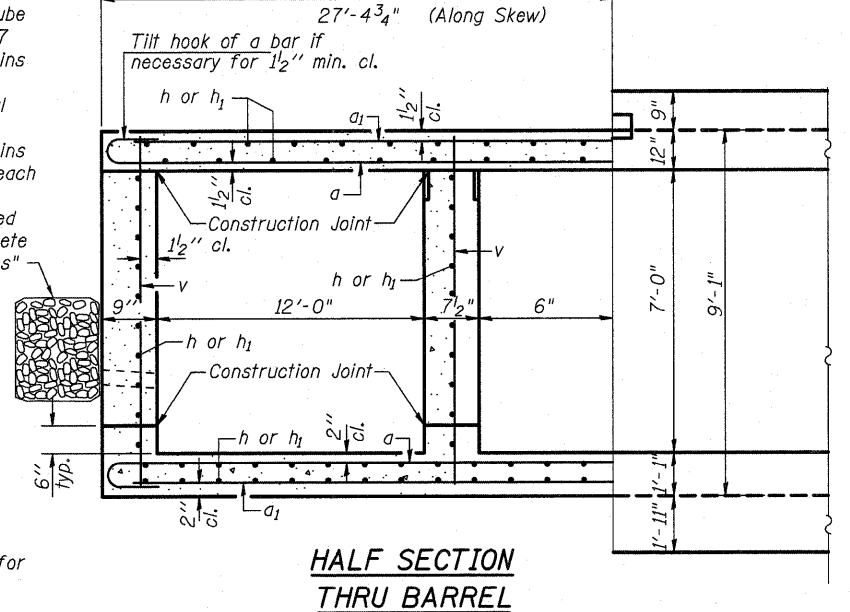
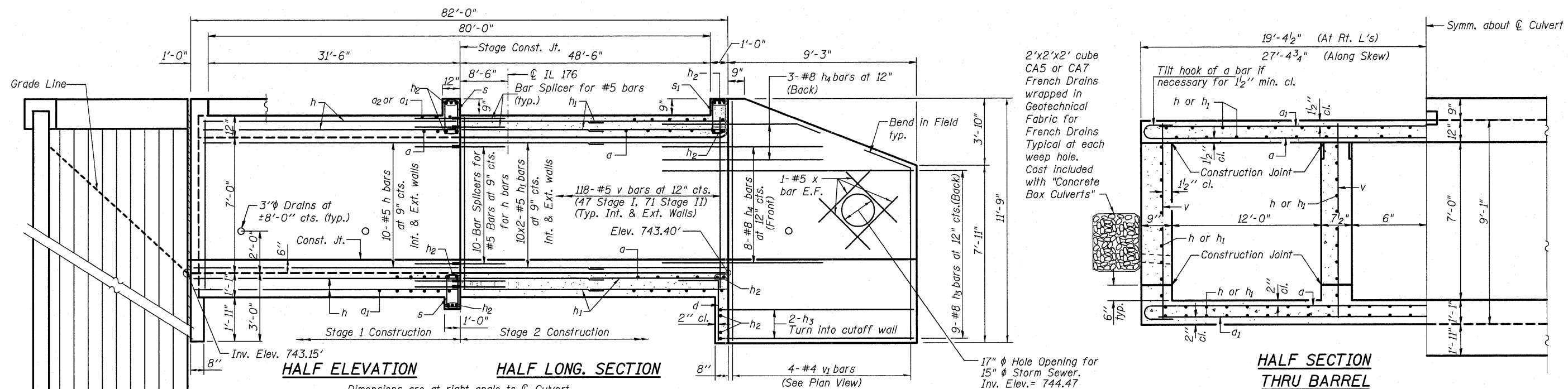


| | | |
|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE No. 049-0196 STA. 54 + 00.00

| | | | | |
|------------------------------|---------|---------------------------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 46 |
| SHEET NO. SA2 OF SA10 SHEETS | | | CONTRACT NO. 62187 | |
| DATE: 11-16-2011 | | ILLINOIS FED. AID PROJECT | | |



MINIMUM BAR LAP

| | |
|---------|---------|
| #5 bars | = 2'-2" |
| #7 bars | = 3'-5" |
| #8 bars | = 4'-6" |

* Cut a bars in field to fit skew and use the remainder of bar in opposite end of stage 1 or 2.

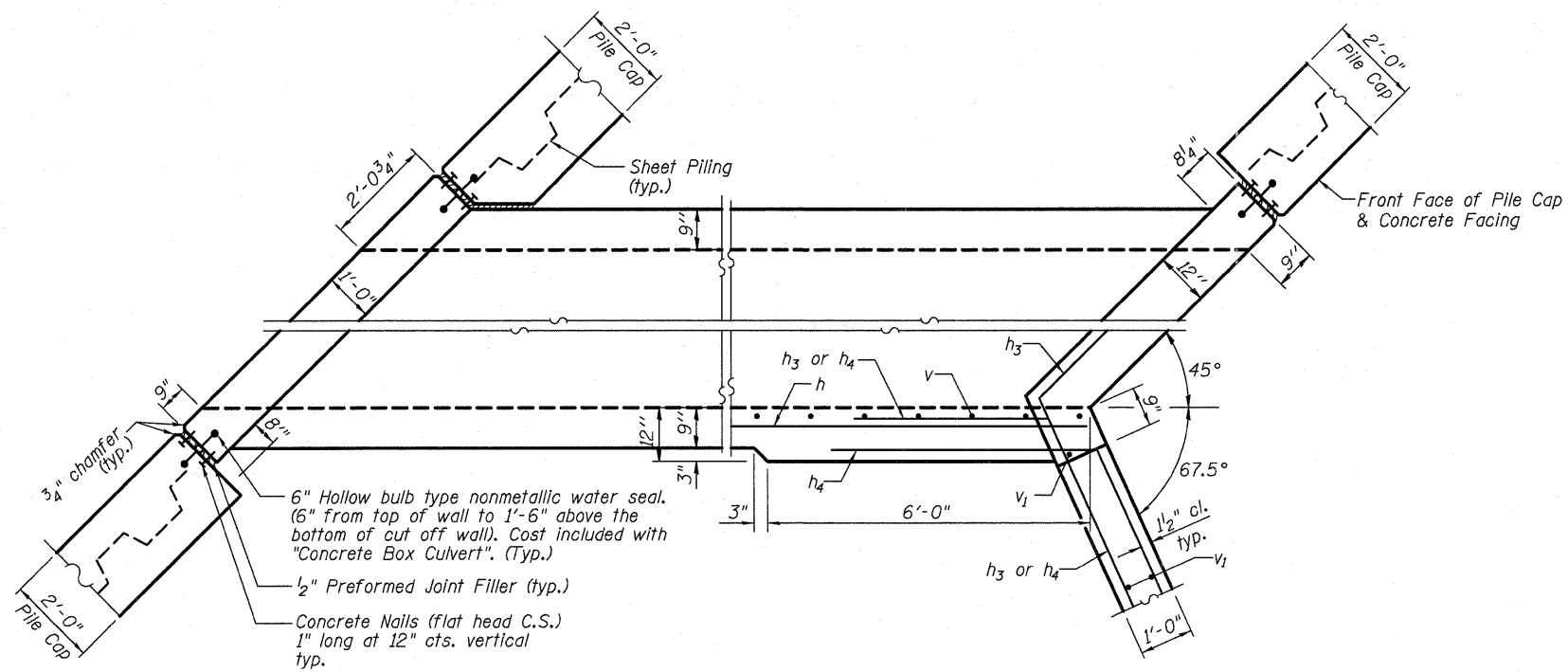


| | | |
|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

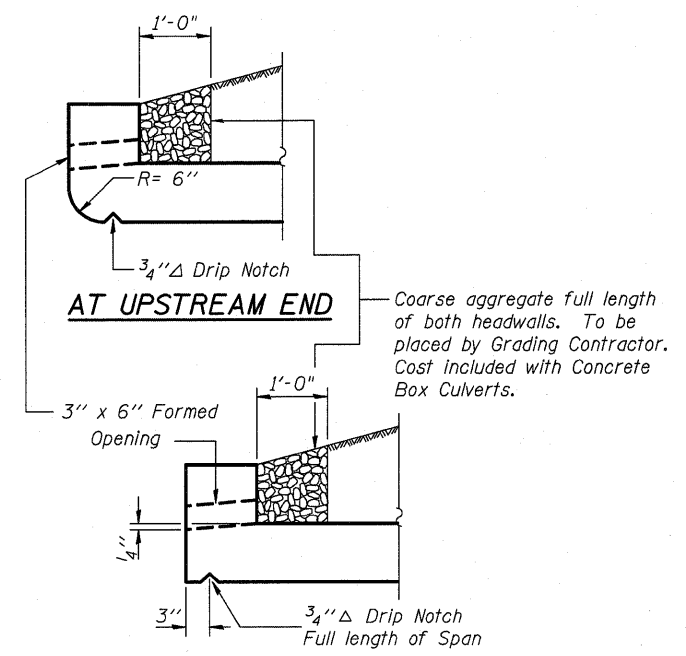
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT PLAN AND DETAILS
STRUCTURE No. 049-0196 STA. 54+00.00
 SHEET NO. SA3 OF SA10 SHEETS

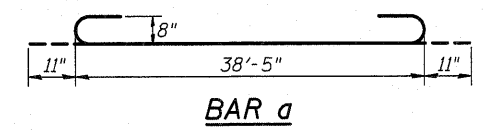
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|------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 47 |
| DATE: 11-30-2011 | | | ILLINOIS FED. AID PROJECT | |



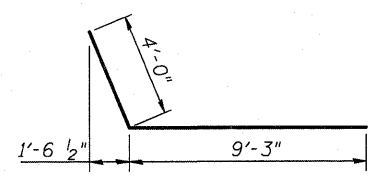
CORNER DETAIL



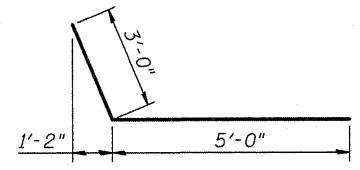
DRAIN DETAIL



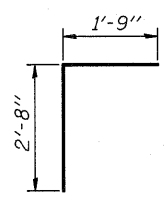
BAR a



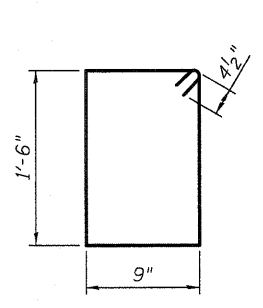
BAR h3



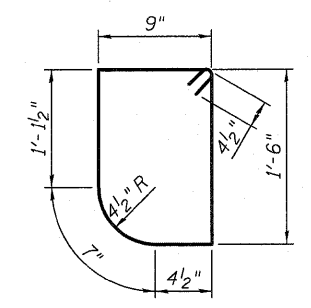
BAR h4



BAR d



BAR s

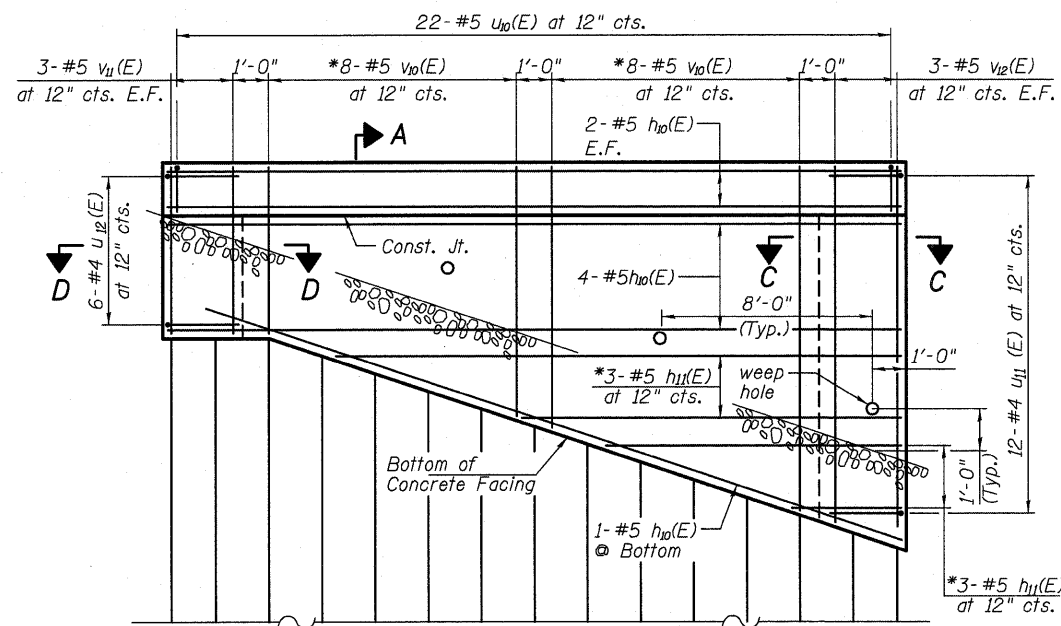


BAR s1

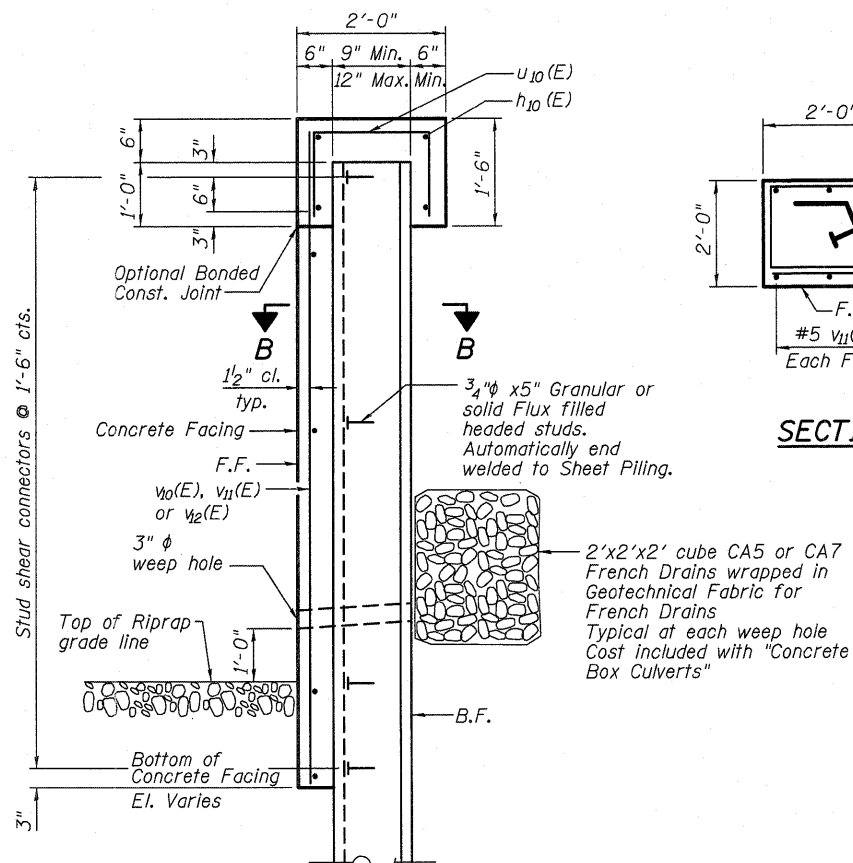
BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|-----------------------|-----|------|---------|---------|
| a | 312 | #8 | 40'-3" | |
| a1 | 312 | #8 | 38'-5" | |
| d | 80 | #4 | 4'-5" | |
| h | 200 | #5 | 45'-8" | |
| h1 | 400 | #5 | 36'-0" | |
| h2 | 56 | #8 | 29'-8" | |
| h3 | 9 | #8 | 13'-3" | |
| h4 | 11 | #8 | 8'-0" | |
| s | 162 | #4 | 5'-3" | |
| s1 | 54 | #4 | 5'-1" | |
| v | 472 | #5 | 8'-9" | |
| v1 | 4 | #4 | 10'-11" | |
| x | 8 | #4 | 4'-3" | |
| Concrete Box Culverts | | | Cu. Yd. | 444.8 |
| Bar Splicers | | | Each | 400 |
| Reinforcement Bars | | | Pound | 100,420 |

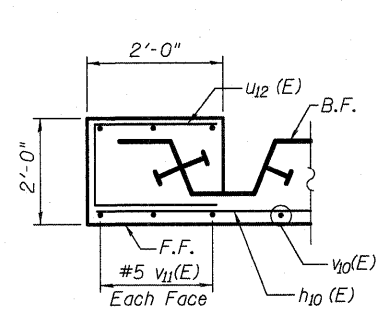
Notes: Bars indicated thus 40x2-#5 etc. Indicates 40 lines of bars with 2 lengths per line.



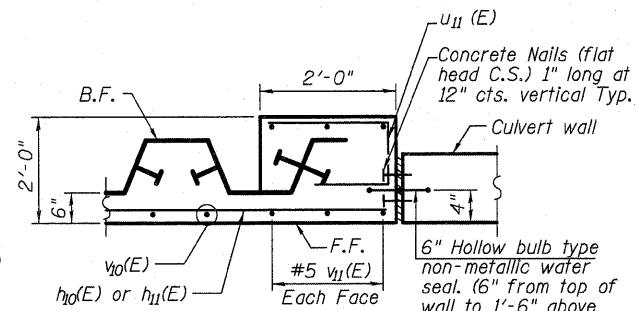
**NE WINGWALL ELEVATION
NW & SE - OPPOSITE HAND**



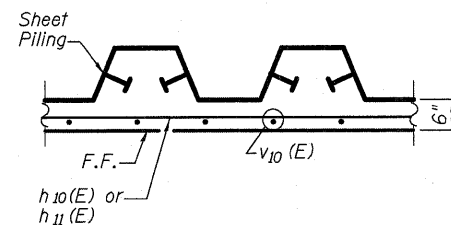
SECTION A-A



SECTION D-D



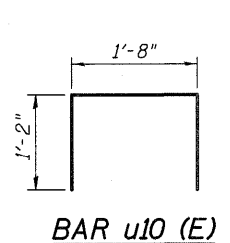
SECTION C-C



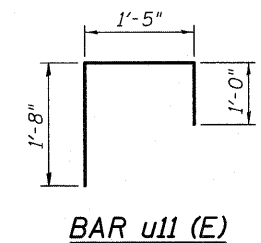
SECTION B-B

BILL OF MATERIAL

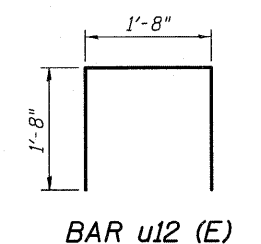
| Bar | No. | Size | Length | Shape |
|------------------------------------|---------|------|--------|-------|
| H10(E) | 27 | #5 | 20'-8" | — |
| H11(E) | 9 | #5 | 19'-0" | — |
| U10(E) | 66 | #4 | 4'-0" | □ |
| U11(E) | 36 | #4 | 4'-1" | □ |
| U12(E) | 18 | #4 | 5'-0" | □ |
| V10(E) | 24 | #5 | 14'-6" | — |
| V11(E) | 18 | #5 | 4'-9" | — |
| V12(E) | 18 | #5 | 10'-9" | — |
| Stud Shear Connectors | Each | | 288 | |
| Concrete Box Culverts | Cu. Yd. | | 24.8 | |
| Reinforcement Bars Epoxy Coated | Pound | | 1,750 | |
| Permanent Steel Sheet Piling | Sq. Ft. | | 1,519 | |



BAR U10 (E)



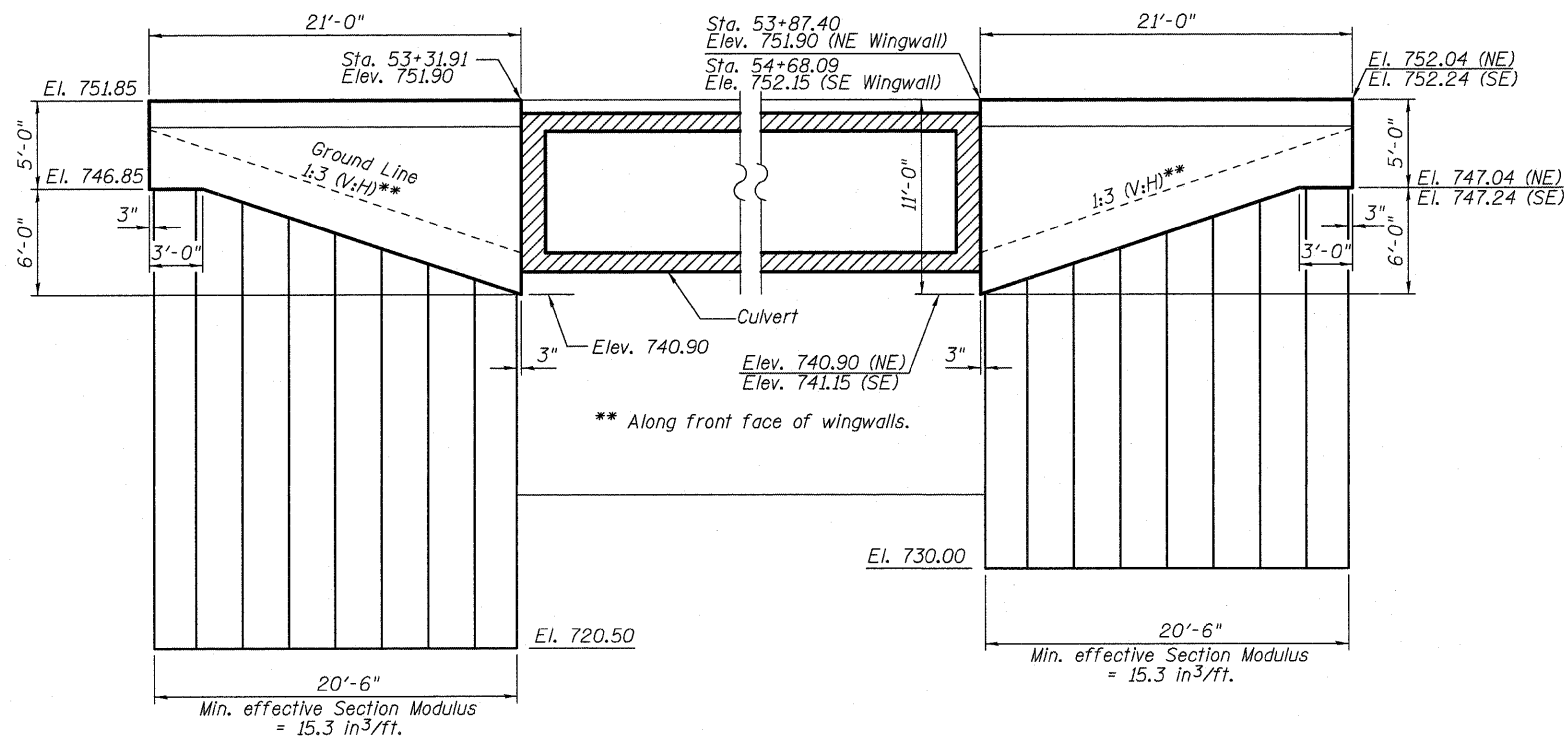
BAR U11 (E)



BAR U12 (E)

MIN. BAR LAP

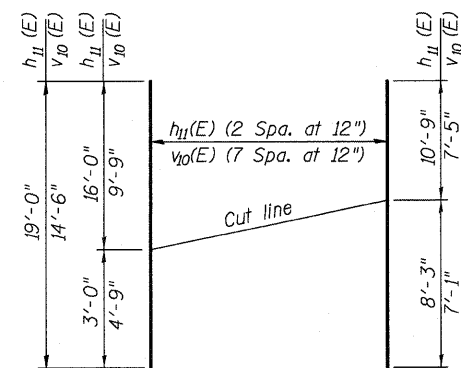
#4 1'-8"
#5 2'-2"



NORTHWEST WINGWALL

NORTHEAST & SOUTHEAST WINGWALLS

PERMANENT SHEET PILING ELEVATIONS



FIELD CUTTING DIAGRAM

* Order H11(E) and V10(E) bars full length. Cut to fit and use the remainder of bars in opposite side.

NOTES:

- Permanent Steel Pile Walls shall be backfilled prior to constructing the concrete facing.
- Hard driving may be encountered during the sheet piling installation. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated on the boring logs.
- If the Contractor chooses to alter the permanent cantilevered sheet piling wingwall design requirements shown on the plans, design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- All dimensions are in feet except as noted.
F.F. - Front Face
B.F. - Back Face
E.F. - Each Face
P.J.F. - Preformed Joint Filler



| | | |
|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

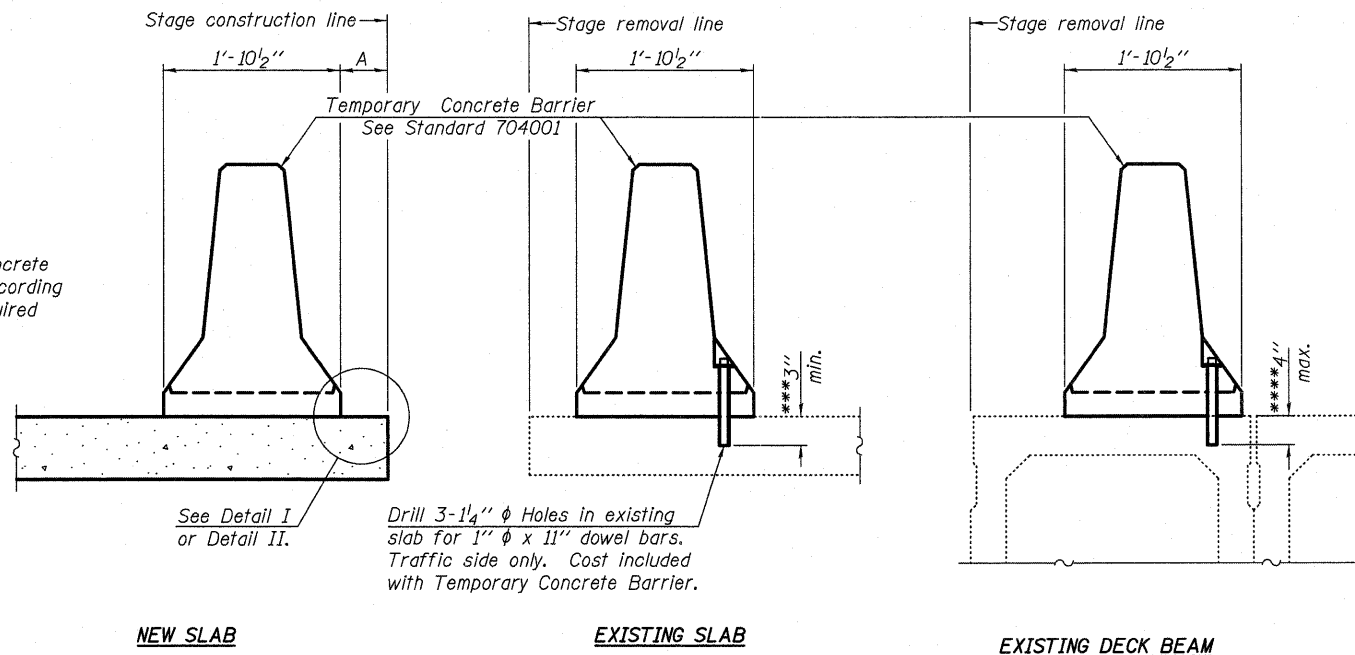
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SHEET PILING WINGWALL DETAILS
STRUCTURE No. 049-0196 STA. 54+00.00**

SHEET NO. SA5 OF SA10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------|---------------------------|--------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 49 |
| | | | CONTRACT NO. 62187 | |
| DATE: 11-30-2011 | | ILLINOIS FED. AID PROJECT | | |

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

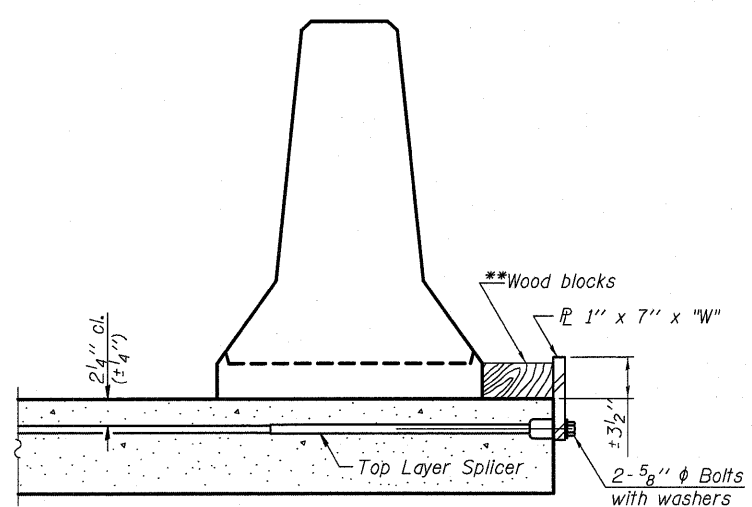
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

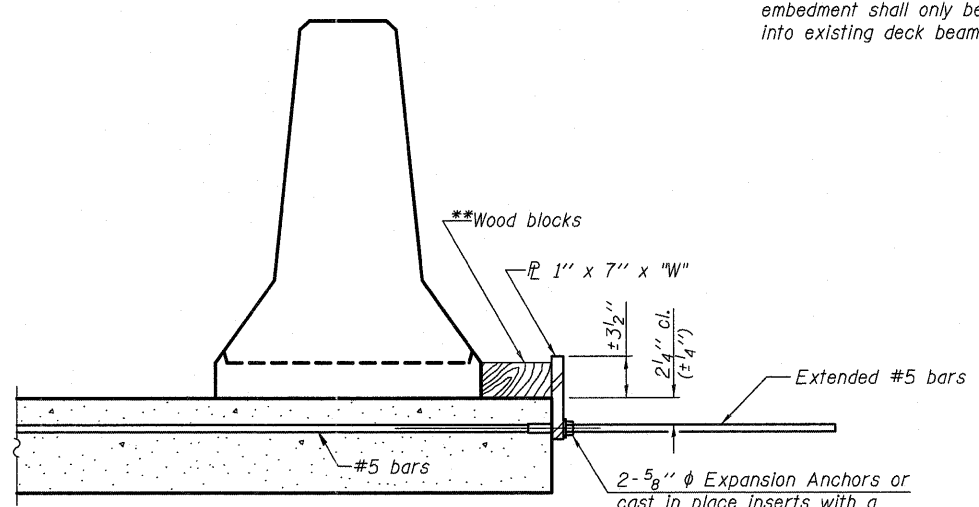
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

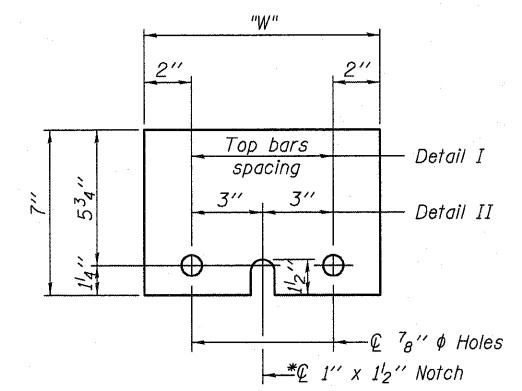
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

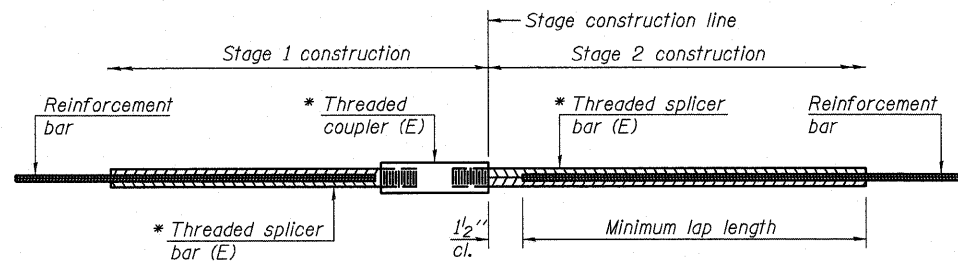
** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

| | | | | | | | | | | |
|------------------------------|--------------|-------------------|-----------|---|---|--|---------|--------|--------------|-----------|
| | USER NAME = | DESIGNED - JSG | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE No. 049-0196 STA. 54 + 00.00 | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = | CHECKED - LRG | REVISED - | | | 335 | 145 X-T | LAKE | 80 | 50 |
| | PLOT DATE = | DRAWN - MPS | REVISED - | | | CONTRACT NO. 62187 | | | | |
| | | CHECKED - JXH/TPG | REVISED - | | | DATE: 09-14-2011 [ILLINOIS] FED. AID PROJECT | | | | |
| SHEET NO. SA6 OF SA10 SHEETS | | | | | | | | | | |



STANDARD BAR SPLICER ASSEMBLY

No. required = 392

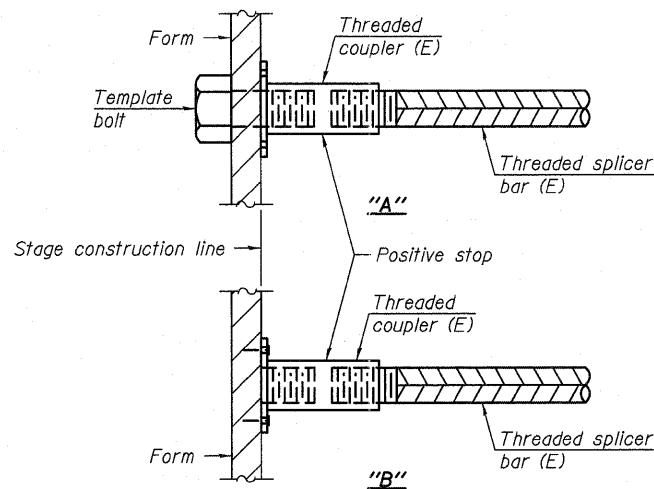
| Bar size to be spliced | Minimum Lap Lengths | | | | |
|------------------------|---------------------|---------|---------|---------|---------|
| | Table 1 | Table 2 | Table 3 | Table 4 | Table 5 |
| 3, 4 | 1'-5" | 1'-11" | 2'-1" | 2'-4" | 2'-3" |
| 5 | 1'-9" | 2'-5" | 2'-7" | 2'-11" | 2'-10" |
| 6 | 2'-1" | 2'-11" | 3'-1" | 3'-6" | 3'-4" |
| 7 | 2'-9" | 3'-10" | 4'-2" | 4'-8" | 4'-6" |
| 8 | 3'-8" | 5'-1" | 5'-5" | 6'-2" | 5'-10" |
| 9 | 4'-7" | 6'-5" | 6'-10" | 7'-9" | 7'-5" |

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

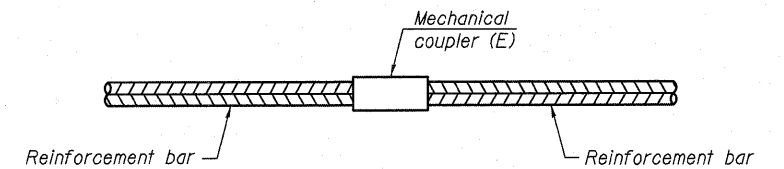
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

| Location | Bar size | No. assemblies required | Table for minimum lap length |
|---------------------------|----------|-------------------------|------------------------------|
| Top Slab Longitudinal | #5 | 80 | Table 1 |
| Top Slab Transverse | #8 | 100 | Table 1 |
| Bottom Slab Longitudinal | #5 | 80 | Table 1 |
| Bottom Slab Transverse | #8 | 100 | Table 1 |
| Exterior & Interior Walls | #5 | 40 | Table 1 |



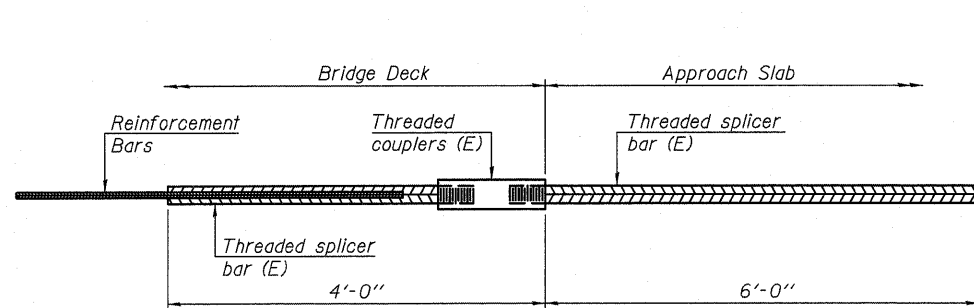
INSTALLATION AND SETTING METHODS

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



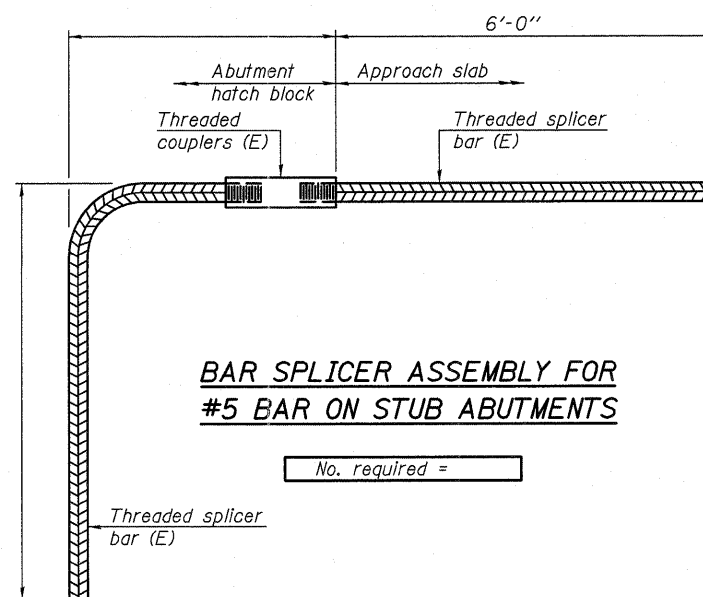
STANDARD MECHANICAL SPLICER

| Location | Bar size | No. assemblies required |
|----------|----------|-------------------------|
| | | |
| | | |
| | | |
| | | |



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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



SOIL BORING LOG

ROUTE 175 DESCRIPTION Structure Soil Boring for Box Culvert Over Bangs Lake Drain LOGGED BY Adam Glinski

SECTION LOCATION SW 1/4 SEC. 27, TWP. 44 N, RNG. 9 E, 3rd PM

COUNTY Lake DRILLING METHOD CME 760 HAMMER TYPE CME Automatic

| STRUCT. NO. | STATION | DEPTH (ft) | DESCRIPTION | DEPTH (ft) | U | C | S | M | D | U | M |
|-------------|---------|------------|--|------------|---|---|---|---|---|---|---|
| 049-0112 | 54+00 | 15.00 | Ground Surface Elev. 751.27 | 15.00 | | | | | | | |
| | | 750.64 | SAND and GRAVEL Shoulder | | | | | | | | |
| | | 746.77 | Medium Stiff Mottled Black and Brown SILTY CLAY LOAM | | | | | | | | |
| | | 743.27 | Grades to Brown | | | | | | | | |
| | | 741.27 | Grades to Medium Dense Gray | | | | | | | | |
| | | 738.27 | Begin Washing | | | | | | | | |
| | | 736.77 | Very Stiff Gray SILTY CLAY LOAM | | | | | | | | |
| | | 732.27 | Discontinue Washing | | | | | | | | |

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. 8-98)



SOIL BORING LOG

ROUTE 175 DESCRIPTION Structure Soil Boring for Box Culvert Over Bangs Lake Drain LOGGED BY Adam Glinski

SECTION LOCATION SW 1/4 SEC. 27, TWP. 44 N, RNG. 9 E, 3rd PM

COUNTY Lake DRILLING METHOD CME 760 HAMMER TYPE CME Automatic

| STRUCT. NO. | STATION | DEPTH (ft) | DESCRIPTION | DEPTH (ft) | U | C | S | M | D | U | M |
|-------------|---------|------------|----------------------------|------------|---|---|---|---|---|---|---|
| 049-0112 | 54+00 | 730.27 | in Driven BAND (continued) | 730.27 | | | | | | | |
| | | 729.77 | Very Loose Gray SILTY LOAM | | | | | | | | |
| | | 728.77 | Silty Clay Seam (3") | | | | | | | | |
| | | 727.77 | Begin Washing | | | | | | | | |
| | | 726.77 | Very Soft Gray SILTY CLAY | | | | | | | | |
| | | 725.77 | Discontinue Washing | | | | | | | | |
| | | 724.77 | Grades to Very Stiff | | | | | | | | |
| | | 723.77 | Grades to Stiff | | | | | | | | |
| | | 722.77 | Stiff Gray SILTY CLAY | | | | | | | | |
| | | 721.77 | Grades to Stiff | | | | | | | | |
| | | 720.77 | 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. 8-98)



SOIL BORING LOG

ROUTE 175 DESCRIPTION Structure Soil Boring for Box Culvert Over Bangs Lake Drain LOGGED BY Adam Glinski

SECTION LOCATION SW 1/4 SEC. 27, TWP. 44 N, RNG. 9 E, 3rd PM

COUNTY Lake DRILLING METHOD CME 760 HAMMER TYPE CME Automatic

| STRUCT. NO. | STATION | DEPTH (ft) | DESCRIPTION | DEPTH (ft) | U | C | S | M | D | U | M |
|-------------|---------|------------|---|------------|---|---|---|---|---|---|---|
| 049-0112 | 54+00 | 720.62 | Ground Surface Elev. | 720.62 | | | | | | | |
| | | 720.12 | SAND and GRAVEL Shoulder | | | | | | | | |
| | | 720.02 | Stiff Mottled Black and Green SANDY CLAY LOAM | | | | | | | | |
| | | 725.62 | Grades to Green and Black | | | | | | | | |
| | | 725.12 | Medium Stiff Black CLAY | | | | | | | | |
| | | 724.02 | Discontinue Washing | | | | | | | | |
| | | 723.62 | Medium Soft Green CLAY with Clay | | | | | | | | |
| | | 723.12 | Grades to Green and Black | | | | | | | | |
| | | 722.12 | Loose Gray SANDY LOAM | | | | | | | | |
| | | 721.12 | Medium Dense Gray SILT | | | | | | | | |
| | | 720.12 | Medium Dense Gray Fine SAND | | | | | | | | |
| | | 719.62 | Begin Washing | | | | | | | | |
| | | 719.12 | Stiff Gray SILTY CLAY | | | | | | | | |
| | | 718.12 | Medium Dense Gray SAND | | | | | | | | |

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. 8-98)



| | | |
|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE No. 049-0196 STA. 54 + 00.00 SHEET NO. 58 OF 5410 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------|---------|--------|--------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 52 |
| DATE: 09-14-2011 | | | CONTRACT NO. 62187 | |
| [ILLINOIS] FED. AID PROJECT | | | | |



Illinois Department of Transportation
Division of Highways
State Office of Transportation

SOIL BORING LOG

Page 1 of 1

Date 1/28/02

ROUTE FA-335 (IL 176) DESCRIPTION Over Bridge Lake Drain 1.0 Mile West of US 12, LOOSED BY Tal Galaway

SECTION _____ LOCATION SW 1/4 SEC. 27, TWP. 44N, R. 9E, 3rd PM

COUNTY Lake DRILLING METHOD CME-750 HAMMER TYPE CME Automatic

| STRUCT. NO. Station | BORING NO. Station | OFFSET Ground Surface Elev. | D ft | B % | U % | M % | Description | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev. ft | First Recorder Upon Completion After Hrs. | D ft | B % | U % | M % | Failure Mode | |
|------------------------|-----------------------|--------------------------------|---------|--------|--------|--------|----------------------------------|---------------------------|------------------------|-------------------------|---|---------|--------|--------|--------|--------------|------|
| | | | | | | | | | | | | | | | | | (ft) |
| 049 0112 54+20 | S-5 | 781.31 | | | | | Very Silty Gray CLAY (Continued) | 744.41 | | 744.3 | | | | | | | |
| | | | 2 | | | | Loose Brown and Black SILTY LOAM | | | | | | | | | | |
| | | | 2 | | | | Loose Gray SILT | | | | | | | | | | |
| | | | 2 | | | | Loose Gray SAND and GRAVEL | | | | | | | | | | |
| | | | 4 | | | | Loose Gray SILT w/ Clay Strands | | | | | | | | | | |
| | | | 3 | | | | Stiff Gray CLAY | | | | | | | | | | |
| | | | 3 | | | | Gravelly to Very SILT | | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bludge, S-Shear, P-Penetrometer).
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D206).
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
State Office of Transportation

SOIL BORING LOG

Page 1 of 1

Date 1/28/02

ROUTE FA-335 (IL 176) DESCRIPTION Over Bridge Lake Drain 1.0 Mile West of US 12, LOOSED BY Tal Galaway

SECTION _____ LOCATION SW 1/4 SEC. 27, TWP. 44N, R. 9E, 3rd PM

COUNTY Lake DRILLING METHOD CME-750 HAMMER TYPE CME Automatic

| STRUCT. NO. Station | BORING NO. Station | OFFSET Ground Surface Elev. | D ft | B % | U % | M % | Description | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev. ft | First Recorder Upon Completion After Hrs. | D ft | B % | U % | M % | Failure Mode |
|------------------------|-----------------------|--------------------------------|---------|--------|--------|--------|--|---------------------------|------------------------|-------------------------|---|---------|--------|--------|--------|--------------|
| | | | | | | | | | | | | | | | | |
| 049 0112 54+00 | S-7 | 761.19 | | | | | Very Silty Gray CLAY (Continued) | 744.41 | | 743.3 | | | | | | |
| | | | 4 | | | | Loose Brown and Black SILTY CLAY w/ GRAVEL (10%) | | | | | | | | | |
| | | | 4 | | | | Loose Gray SAND and GRAVEL | | | | | | | | | |
| | | | 4 | | | | Loose Gray SILT w/ Clay Strands | | | | | | | | | |
| | | | 4 | | | | Stiff Gray CLAY | | | | | | | | | |
| | | | 4 | | | | Gravelly to Very SILT | | | | | | | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bludge, S-Shear, P-Penetrometer).
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D206).
BBS, from 137 (Rev. 8-99)



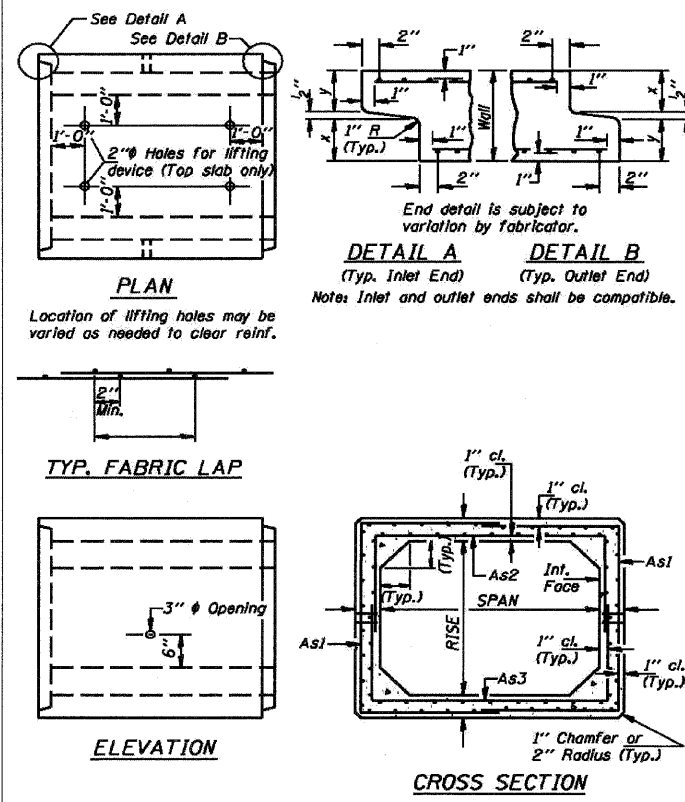
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|--------------|-------------------|-----------|
| USER NAME = | DESIGNED - JSG | REVISED - |
| PLOT SCALE = | CHECKED - LRG | REVISED - |
| PLOT DATE = | DRAWN - MPS | REVISED - |
| | CHECKED - JXH/TPG | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE No. 049-0196 STA. 54 + 00.00

SHEET NO. SA10 OF SA10 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------|---------|--------|---------------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 54 |
| DATE: 09-14-2011 | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 62187 | |



PRECAST BOX CULVERT SHOP DRAWING DETAILS FOR FILL ≥ 2.0 ft. ; AASHTO M 259

GENERAL NOTES
 Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 259.

The minimum concrete strength shall be 5,000 psi.
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL = _____ ft. ; TABLE _____
REQUIRED AASHTO STEEL AREAS (in²/ft.)

As1 _____
 As2 _____
 As3 _____
 As4 _____

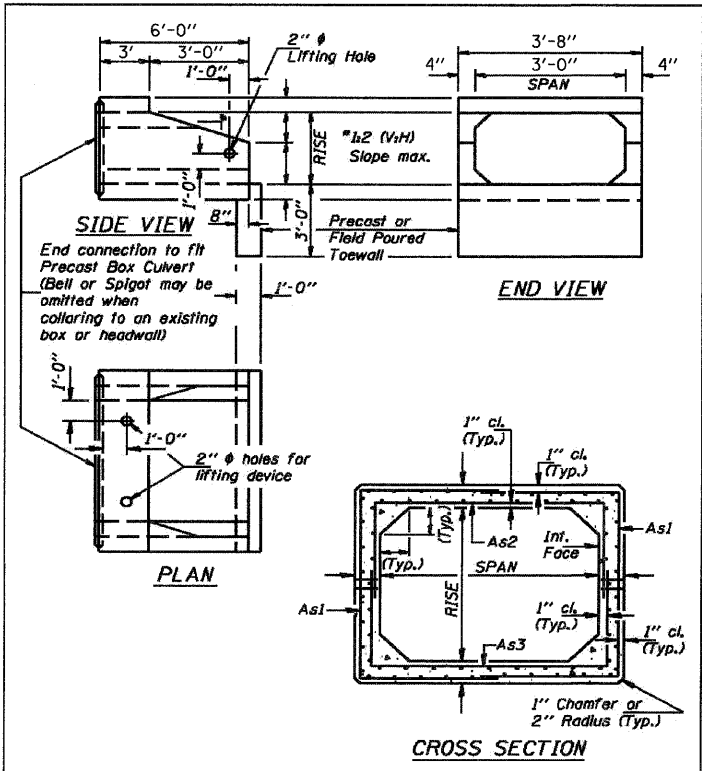
REINFORCEMENT PROVIDED
 As1 _____ x _____ W _____ x W _____ = _____
 As2 _____ x _____ W _____ x W _____ = _____
 As3 _____ x _____ W _____ x W _____ = _____
 As4 provided by As2 and As3

BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|------------------------------------|------|-------|
| Precast Concrete Box Culvert 3 x 2 | Ft. | 116 |

CONTRACT 62187 COUNTY LAKE
 ROUTE 335 SECTION 145 X-T
 SPAN 3 X RISE 2 ; STATION 39+10&39+14

PRECAST BOX CULVERT SHOP DRAWING NOTES FOR FILL ≥ 2.0 ft. ; AASHTO M 259



PRECAST BOX CULVERT END SECTION SHOP DRAWING DETAILS FOR FILL ≥ 2.0 ft. ; AASHTO M 259

GENERAL NOTES
 Box Culvert End Sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 259.

The minimum concrete strength shall be 5,000 psi.
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL = _____ ft. ; TABLE _____
REQUIRED AASHTO STEEL AREAS (in²/ft.)

As1 _____
 As2 _____
 As3 _____
 As4 _____

REINFORCEMENT PROVIDED
 As1 _____ x _____ W _____ x W _____ = _____
 As2 _____ x _____ W _____ x W _____ = _____
 As3 _____ x _____ W _____ x W _____ = _____
 As4 provided by As2 and As3

BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|--------------------------|------|-------|
| Box Culvert End Sections | Each | 4 |

CONTRACT 62187 COUNTY LAKE
 ROUTE 335 SECTION 145 X-T
 SPAN 3 X RISE 2 ; STATION 39+10&39+14

PRECAST BOX CULVERT END SECTION SHOP DRAWING NOTES FOR FILL ≥ 2.0 ft. ; AASHTO M 259

NOTES:
 1. SHOP PLANS FOR PRECAST CONCRETE BOX CULVERT SECTIONS AND PRECAST END SECTIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DISTRICT OFFICE ACCORDING TO THE APPLICABLE REQUIREMENTS OF ARTICLE 504.04(a) OF THE STANDARD SPECIFICATIONS. TYPICAL SHOP PLAN DETAILS AND NOTES FOR PRECAST BOX CULVERTS MANUFACTURED BY A PRECASTER ARE SHOWN ABOVE.

FILE NAME = ...\\D162187-shy-PrecastBoxCulv.dgn

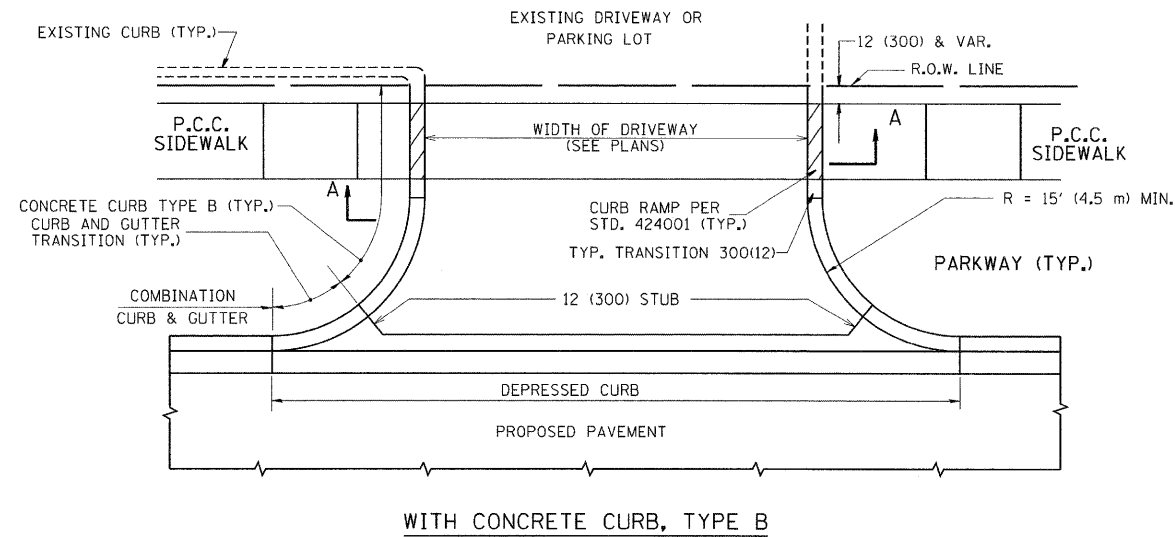


| | | |
|----------|-----------|----------|
| DESIGNED | REVISION | - |
| DRAWN | REVISION | - |
| CHECKED | REVISION | - |
| DATE | 9/14/2011 | REVISION |

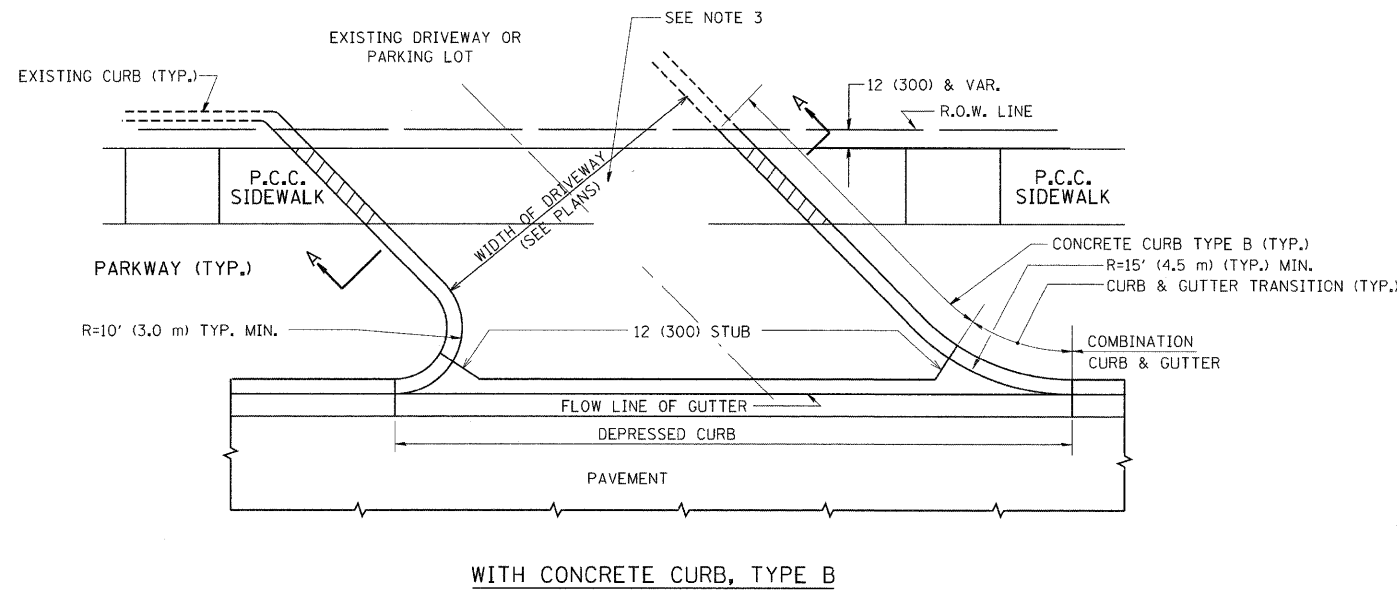
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 PRECAST BOX CULVERT DETAILS
 SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. TO STA.

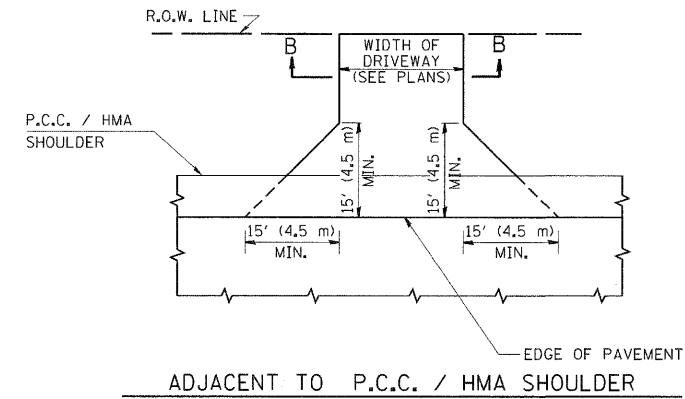
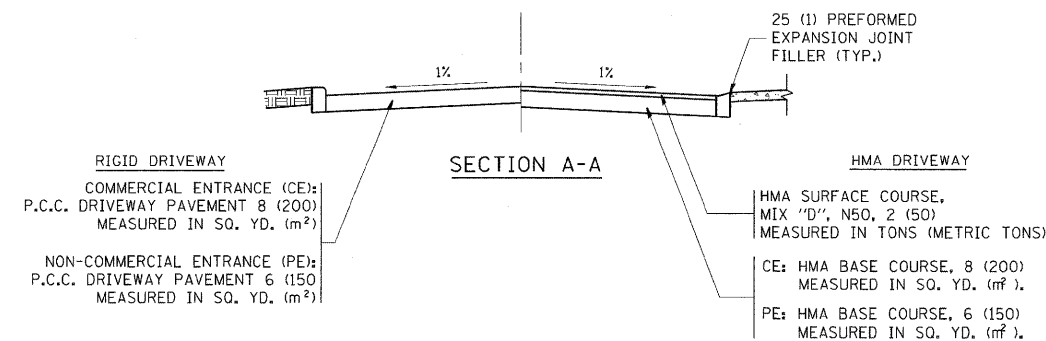
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|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 55 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |



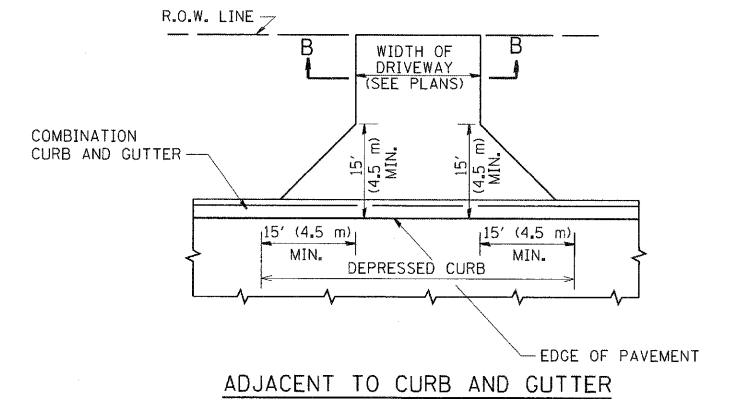
WITH CONCRETE CURB, TYPE B



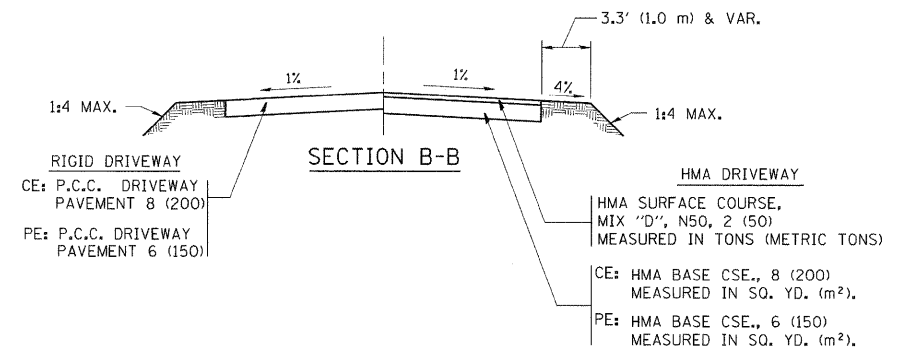
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

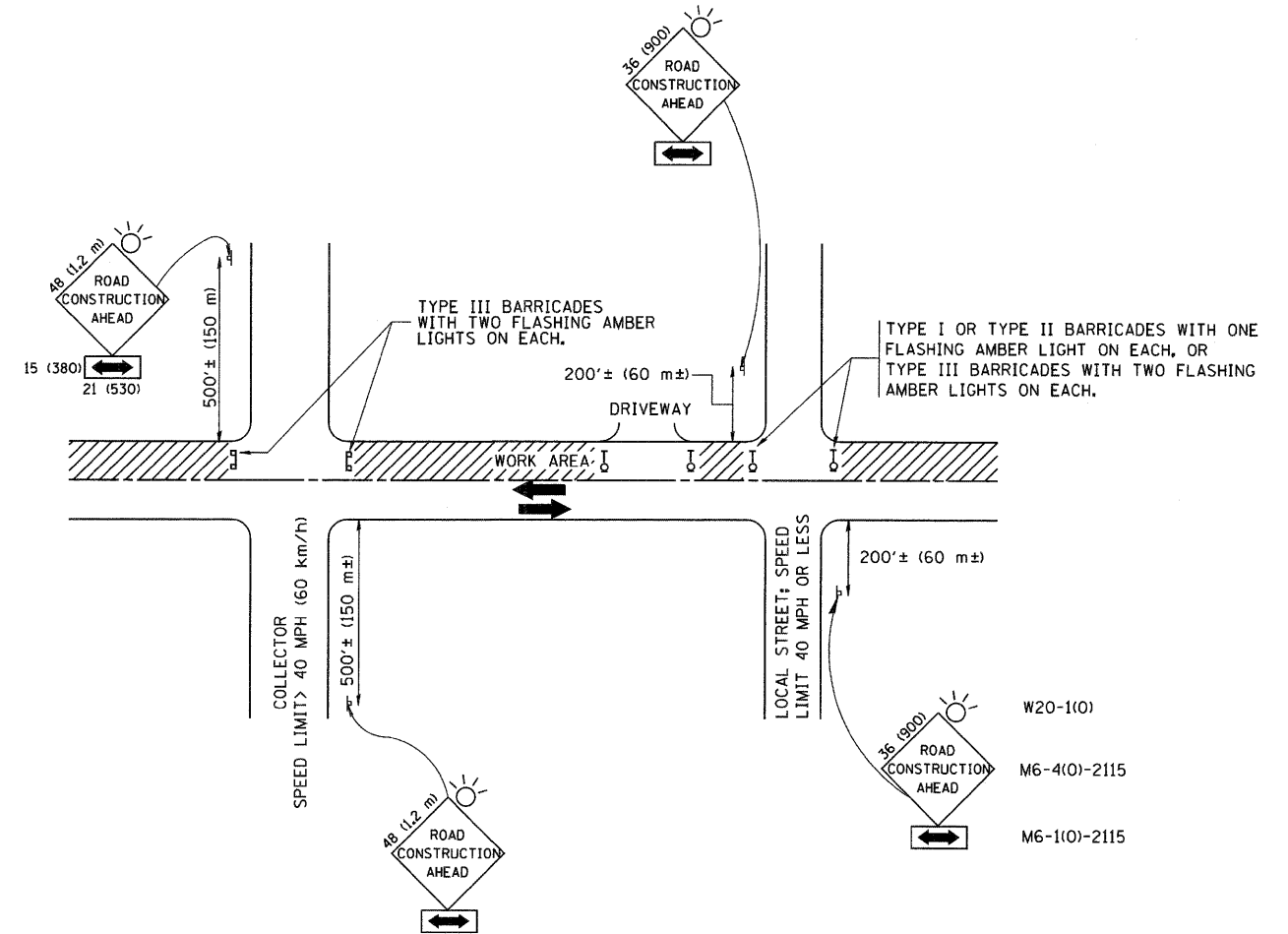
RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE,
 MIX "D", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²).
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²).

| | | | |
|--|-------------------|--------------------|-------------------------------|
| FILE NAME = | USER NAME = layna | DESIGNED - R. SHAH | REVISED - P. LoFLUER 04-15-03 |
| ca\pw\work\p\dot\layna\d0189315\bd01.dgn | | DRAWN - | REVISED - R. BORO 01-01-07 |
| | | CHECKED - | REVISED - R. BORO 06-11-08 |
| | | DATE - 11-04-95 | REVISED - R. BORO 09-06-11 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|--|--------------------------------------|
| DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m) | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| | | | | |
|---|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 57 |
| BD0156-07 (BD-01) | | | CONTRACT NO. 62187 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

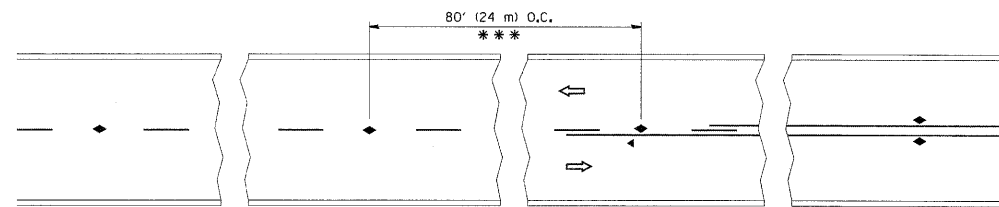
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| | | DRAWN - | REVISED - A. HOUSEH 03-06-96 |
| | PLOT SCALE = 50,000' / IN. | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| | PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

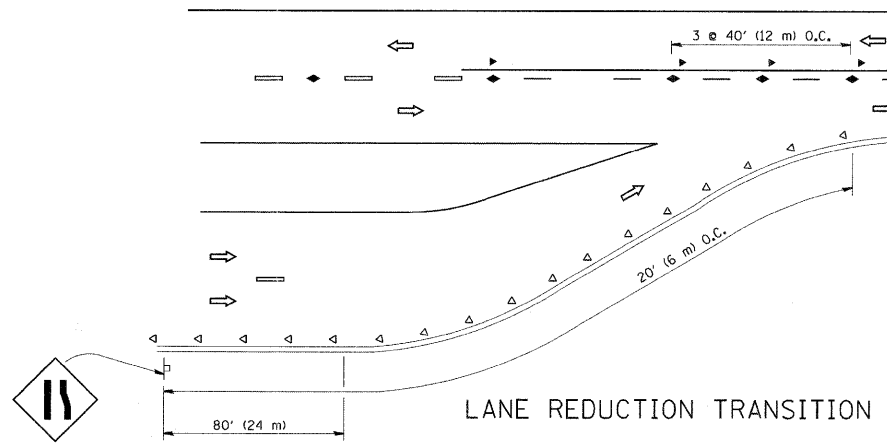
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 58 |
| TC-10 | | | CONTRACT NO. 62187 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

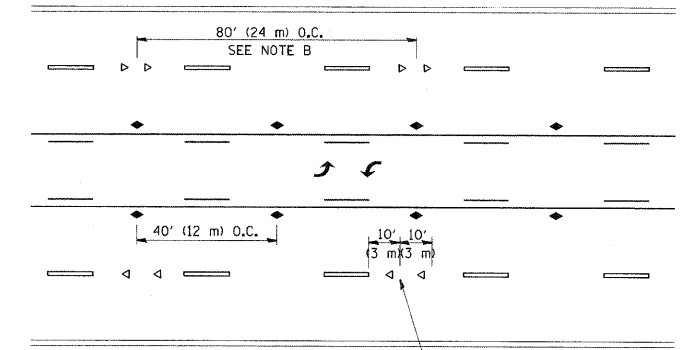


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

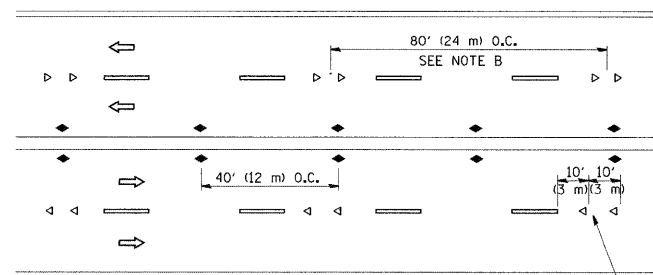
TWO-LANE/TWO-WAY



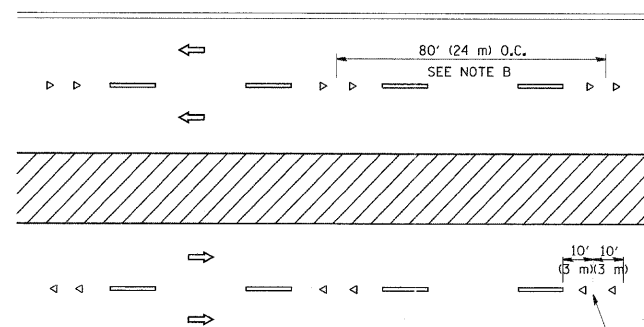
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

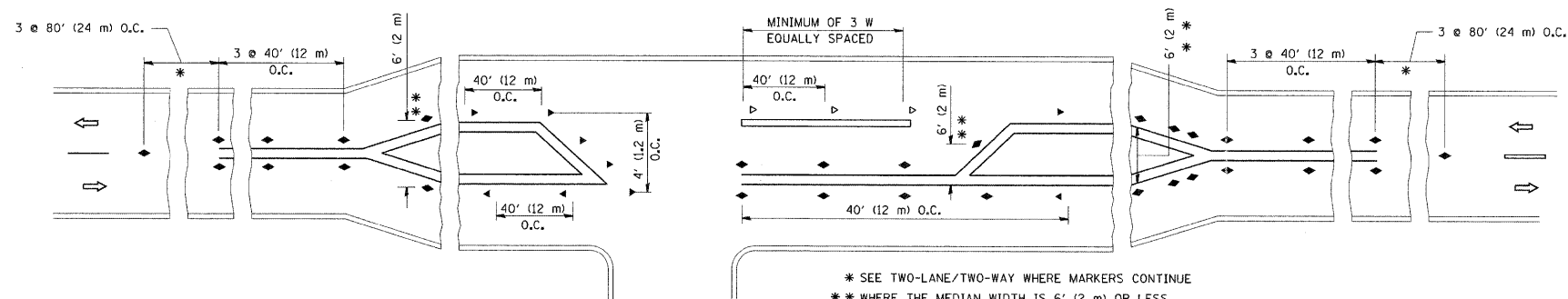
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

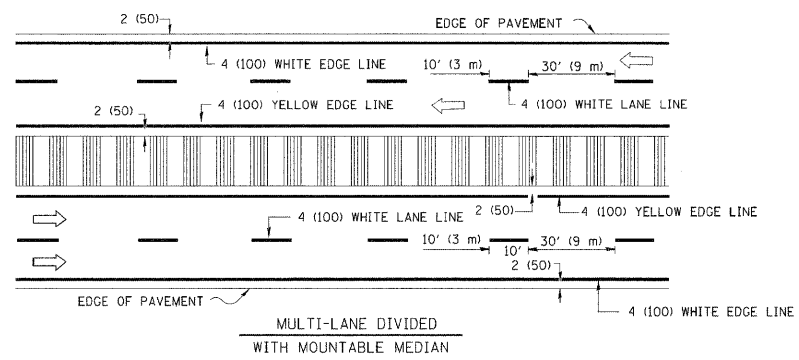
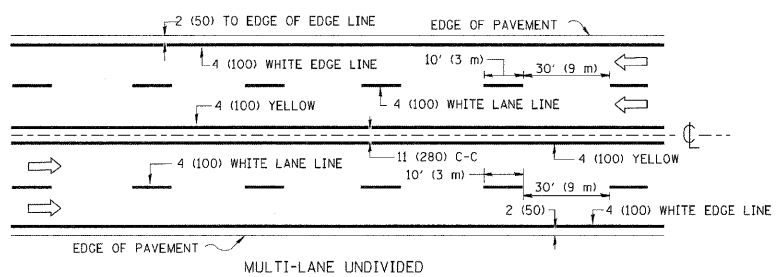
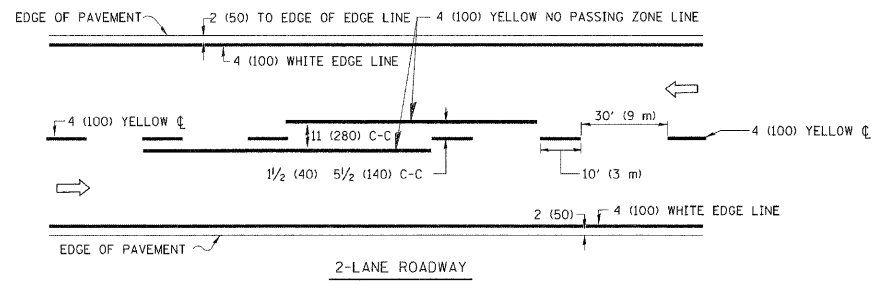


* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

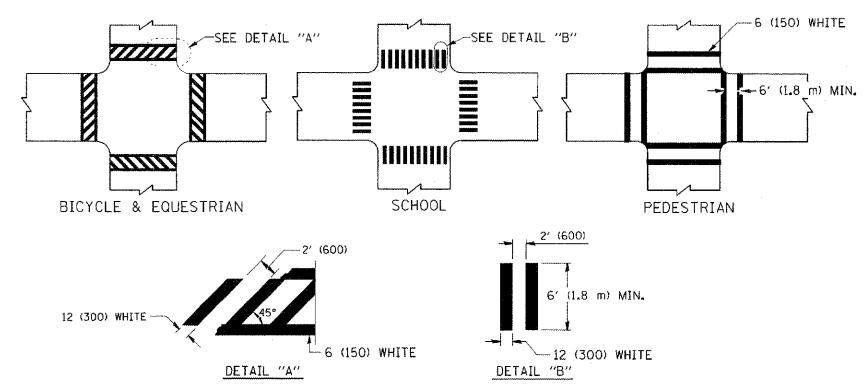
All dimensions are in inches (millimeters) unless otherwise shown.

| | | | | | | | | | | | | |
|--|----------------------------|------------|---------------------------------|---|---|-------------------------|------|-----------------|--------------------|-------------|-----------------|--------------|
| FILE NAME = | USER NAME = lejssa | DESIGNED - | REVISED - T. RAMMACHER 09-19-94 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL APPLICATIONS | | | F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 59 |
| os:\px\work\p\dot\lejssa\d0109315\to11.dgn | PLOT SCALE = 50,000' / IN. | DRAWN - | REVISED - T. RAMMACHER 03-12-99 | | RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | | | TC-11 | | | | |
| | PLOT DATE = 3/2/2011 | CHECKED - | REVISED - T. RAMMACHER 01-06-00 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | CONTRACT NO. 62187 | | | |
| | | DATE - | REVISED - C. JUCIUS 09-09-09 | | FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT | | | | | | | |

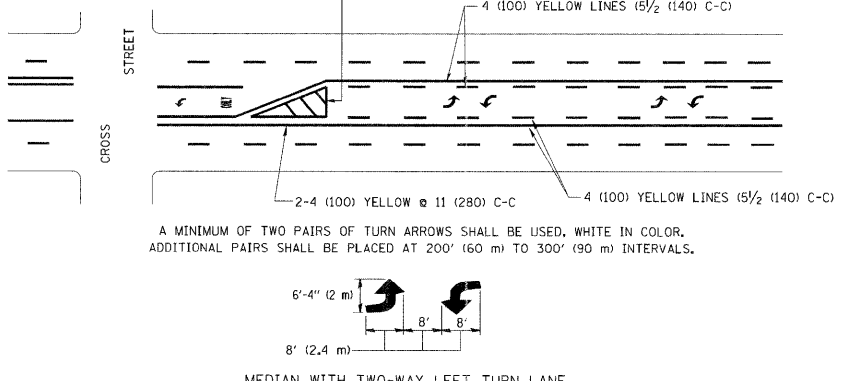
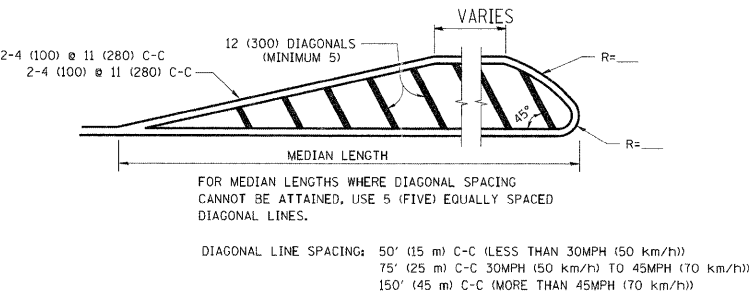
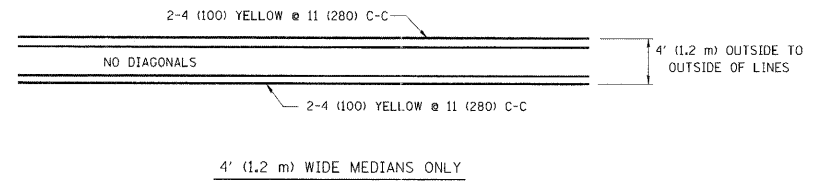


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

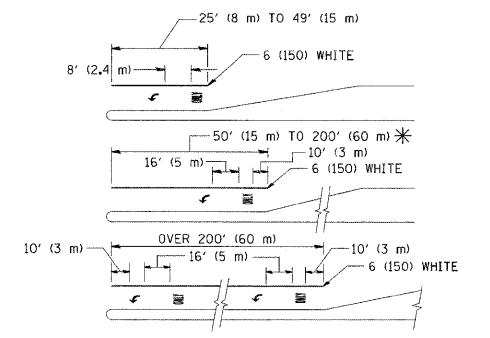
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



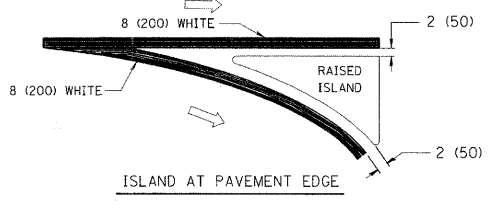
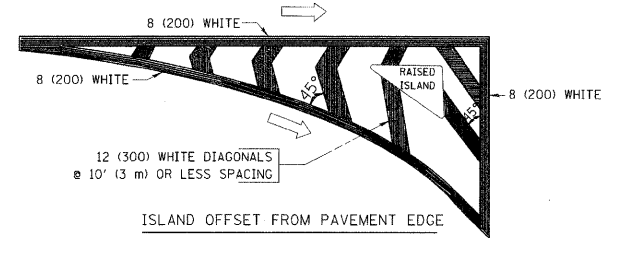
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| GORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 78001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

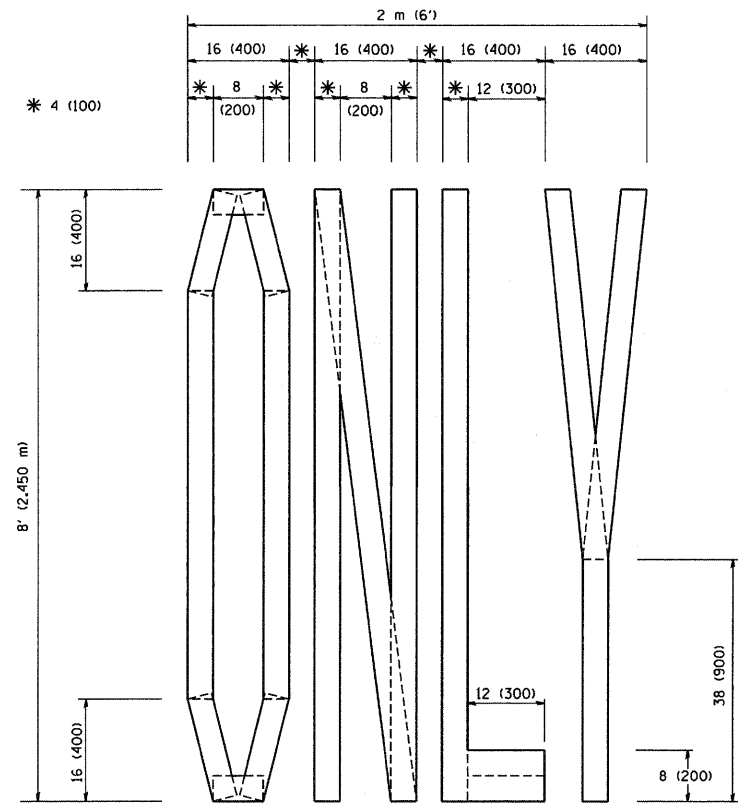
All dimensions are in inches (millimeters) unless otherwise shown.

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| c:\pw_work\pwidot\drivakosgn\d0108315\to3.dgn | | DRAWN - | REVISED -C. JUCIUS 09-09-09 |
| PLOT SCALE = 50.0000' / IN. | | CHECKED - | REVISED - |
| PLOT DATE = 9/9/2009 | | DATE - 03-19-90 | REVISED - |

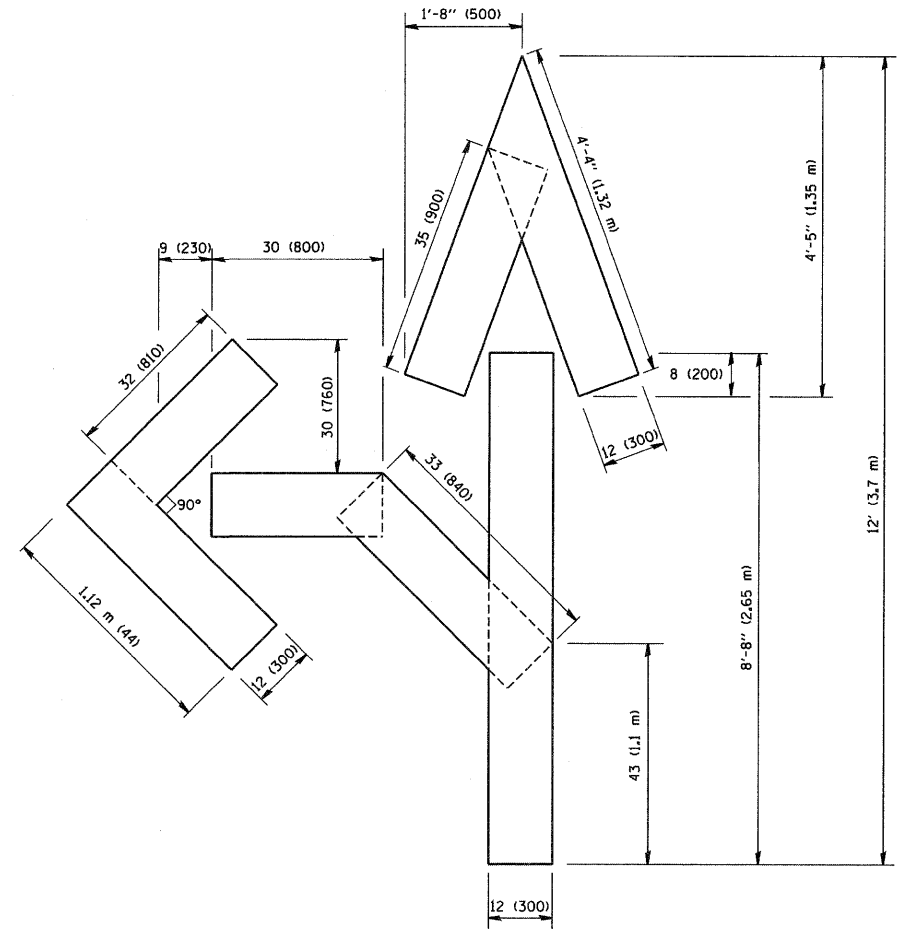
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | |
|---------------------------|-------------------------|--------------|--|
| DISTRICT ONE | | | |
| TYPICAL PAVEMENT MARKINGS | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | |

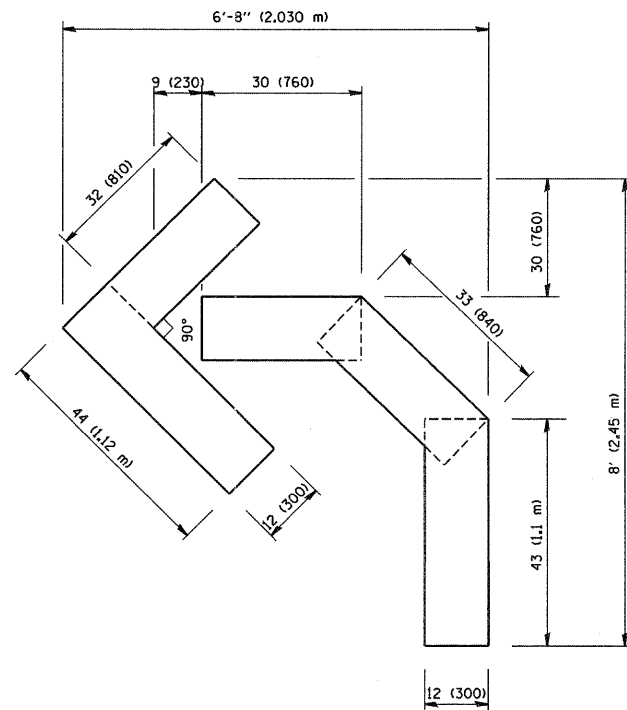
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|---|---------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 60 |
| TC-13 | | | CONTRACT NO. 62187 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

| | | | |
|--|-----------------------------|-----------------------|--|
| FILE NAME = W:\diststd\22x34\tc16.dgn | USER NAME = goglianobt | DESIGNED - DRAWN - | REVISED -T, RAMMACHER 06-05-96 REVISED -T, RAMMACHER 11-04-97 |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED -T, RAMMACHER 03-02-98 |
| | PLOT DATE = 1/4/2008 | DATE = 09-18-94 | REVISED -E. GOMEZ 08-28-00 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

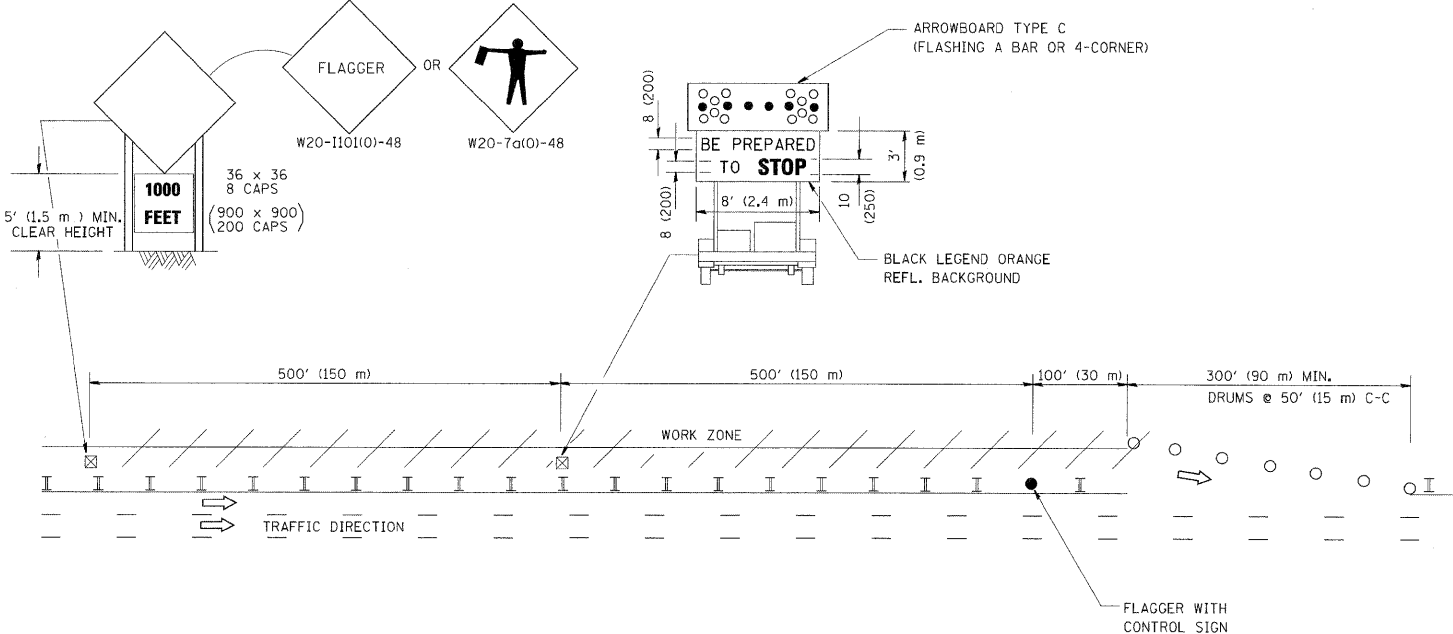
PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

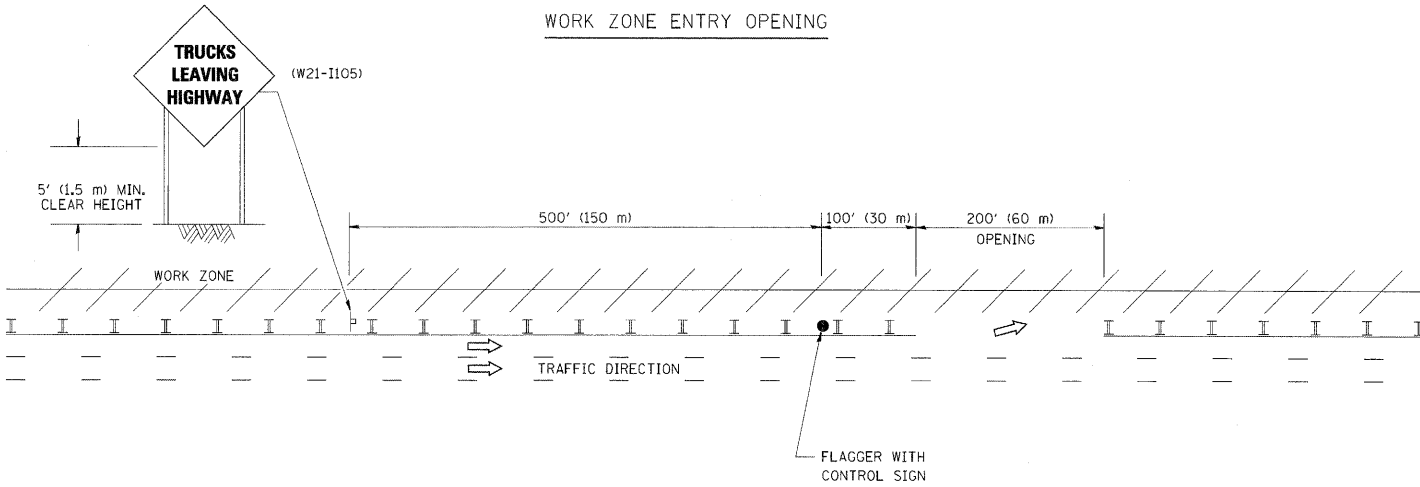
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|---|--------------------|----------------|--------------------|-----------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 61 |
| TC-16 | | | CONTRACT NO. 62187 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

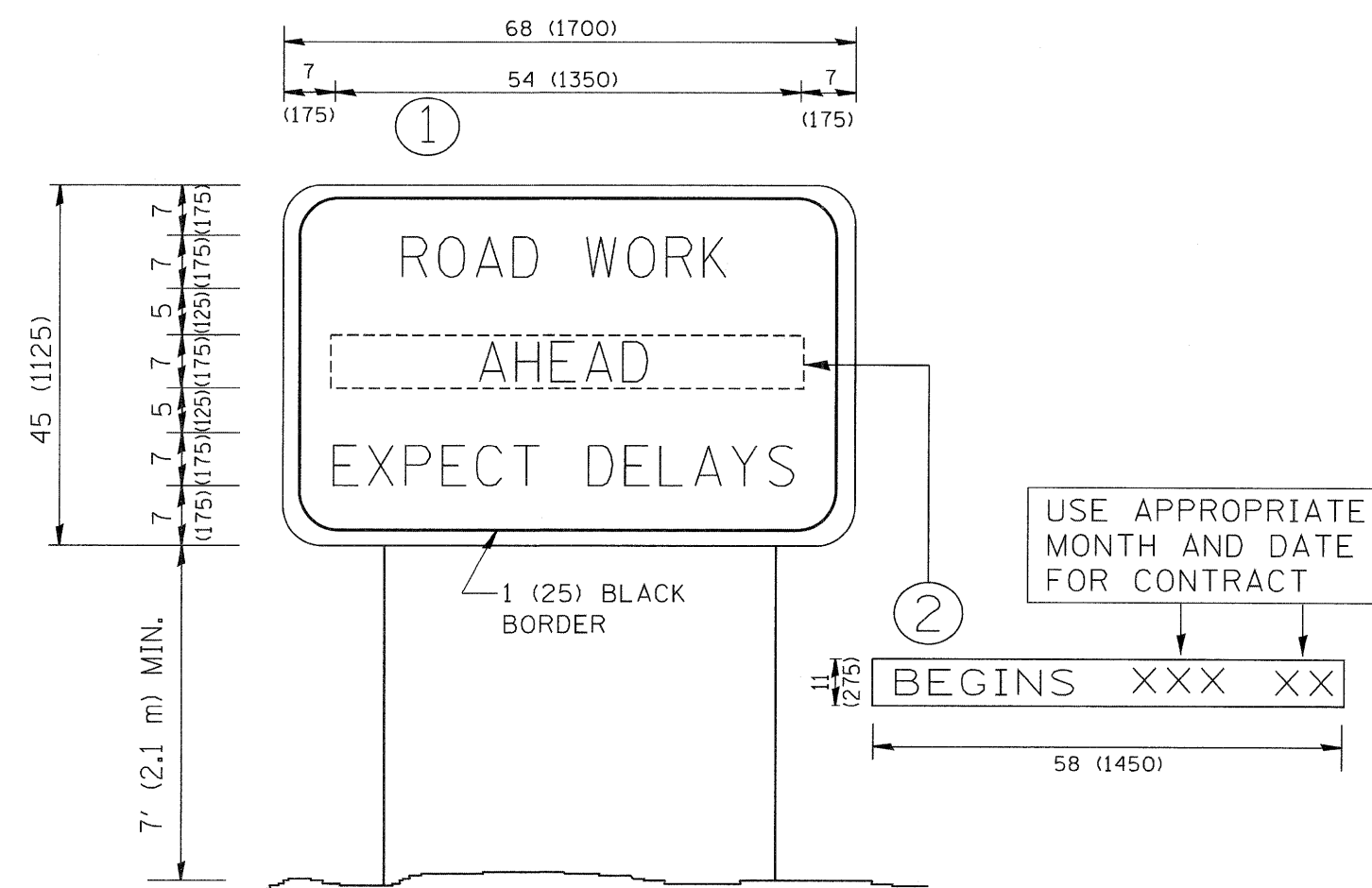
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| FILE NAME = W:\diststd\22x34\to18.dgn | USER NAME = lejno | DESIGNED - | REVISED - J.A.F. 04-03 |
| | | DRAWN - | REVISED - J.A.F. 02-06 |
| | PLOT SCALE = 50,000' / IN. | CHECKED - | REVISED - S.P.B. 01-07 |
| | PLOT DATE = 1/26/2010 | DATE - | REVISED - S.P.B. 12-09 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------------------|--------------|-----------|
| 335 | 145 X-T | LAKE | 80 | 62 |
| TC-18 | | CONTRACT NO. 62187 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

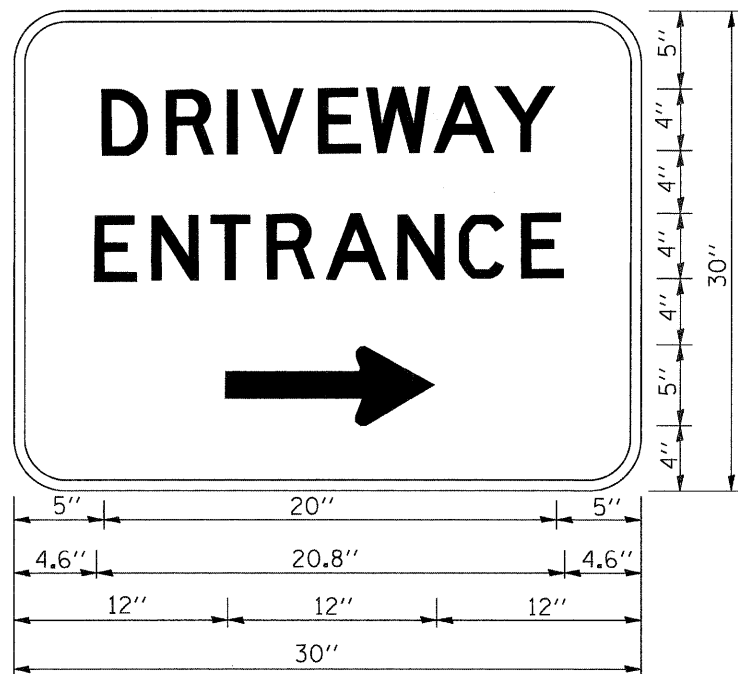


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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|--|-----------------------------|------------------------------|---------------------------------|---|---|---------|--------|--------------------|---------|---|-----------------|--------------|
| FILE NAME = W:\diststd\22x34\te22.dgn | USER NAME = geglienobt | DESIGNED - | REVISED - R. MIRS 09-15-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD INFORMATION SIGN | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 50,000 ' / IN. | DRAWN - | REVISED - R. MIRS 12-11-97 | | 335 | 145 X-T | LAKE | 80 | 63 | | | |
| | PLOT DATE = 1/4/2000 | CHECKED - | REVISED - T. RAMMACHER 02-02-99 | | TC-22 | | | CONTRACT NO. 62187 | | | | |
| | DATE - | REVISED - C. JUCIUS 01-31-07 | | SCALE: NONE | SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | |



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

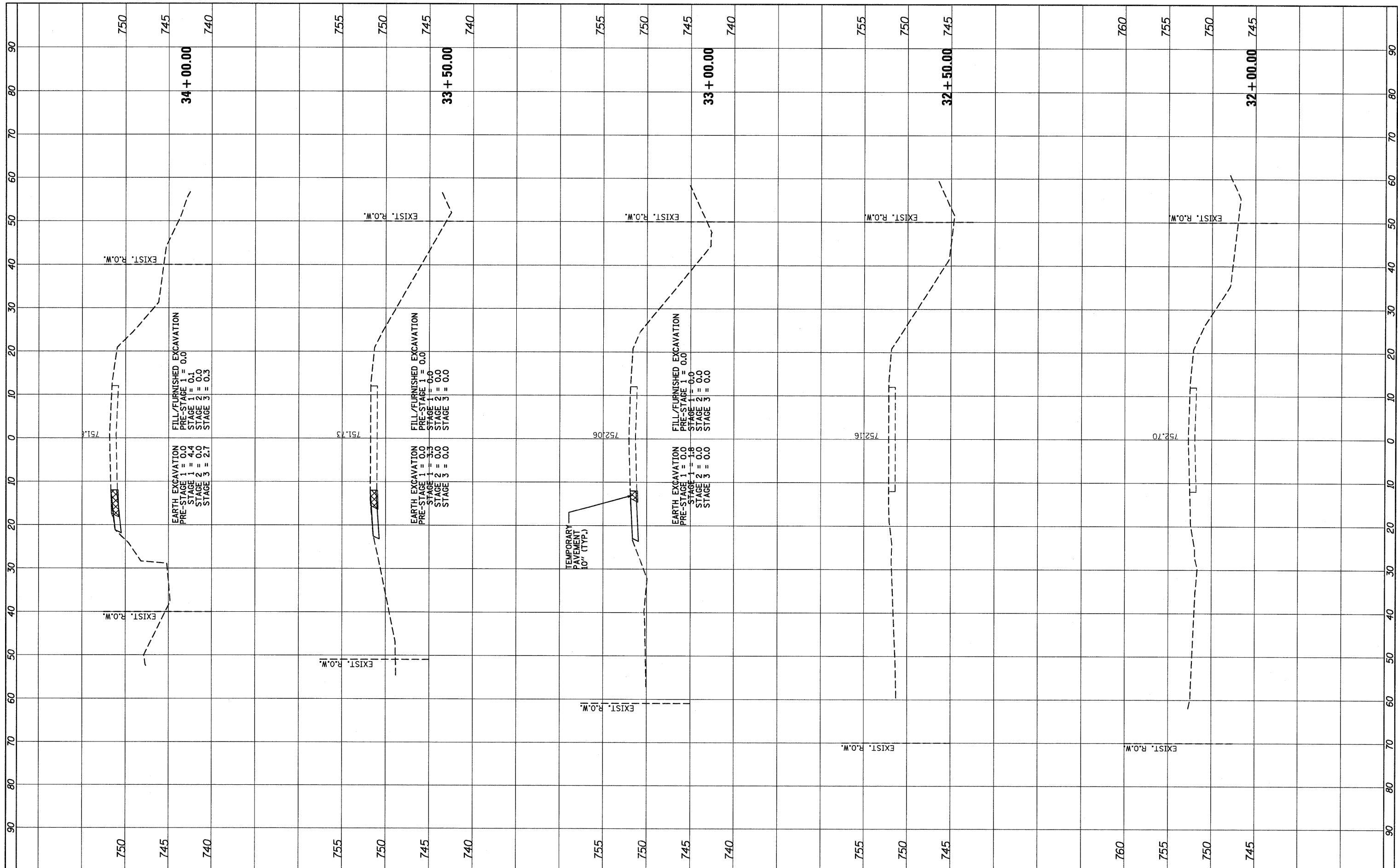
NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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| FILE NAME = W:\diststd\22x34\to26.dgn | USER NAME = geglionobt | DESIGNED - | REVISED - C. JUCIUS 02-15-07 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DRIVEWAY ENTRANCE SIGNING | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 50.000 ' / IN. | DRAWN - | REVISED - | | | | | 335 | 145 X-T | LAKE | 80 | 64 |
| PLOT DATE = 1/4/2008 | DATE - | CHECKED - | REVISED - | SCALE: NONE | SHEET NO. 1 | OF 1 | SHEETS | STA. | TO STA. | TC-26 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 62187 | | |

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| FINAL SURVEY NO. | DATE |
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| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |

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| ORIGINAL SURVEY NO. | DATE |
| SURVEYED | BY |
| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |



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| DRAWN - GEW | REVISED - |
| CHECKED - RJD | REVISED - |
| DATE - 9/14/2011 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS**

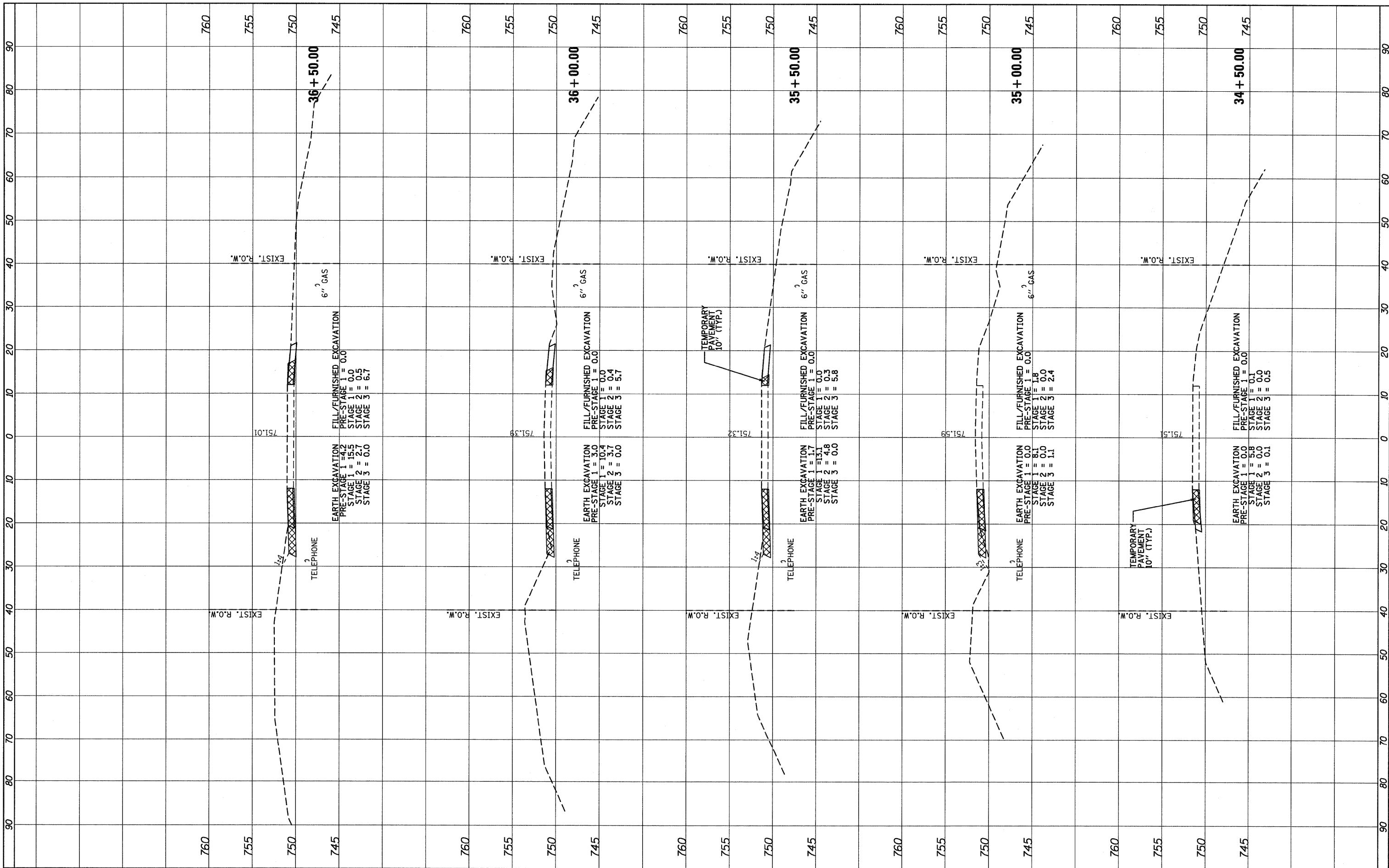
SCALE: 1"=10' (HORIZ.)
 1"=20' (VERT.)

SHEET NO. 1 OF 16 SHEETS STA. 32+00.00 TO STA. 34+00.00

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|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 65 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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

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



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| DRAWN | - GEW | REVISED | - |
| CHECKED | - RJD | REVISED | - |
| DATE | - 9/14/2011 | REVISED | - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS**

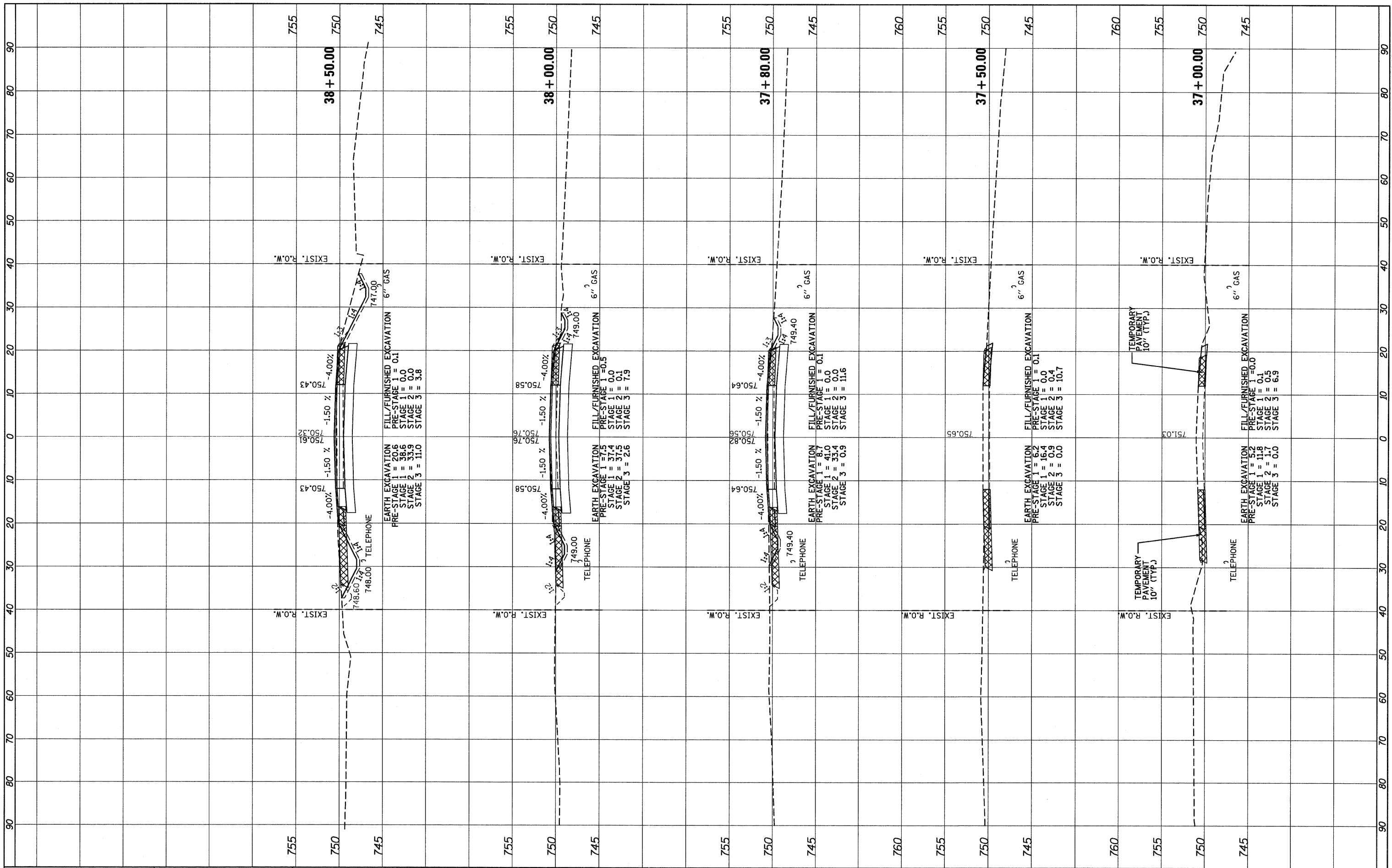
SCALE: 1"=10' (HORIZ.)
 1"=5' (VERT.)

SHEET NO. 2 OF 16 SHEETS | STA. 34+50.00 TO STA. 36+50.00

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|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 66 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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

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



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| DATE | - 9/14/2011 | REVISED | - |

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

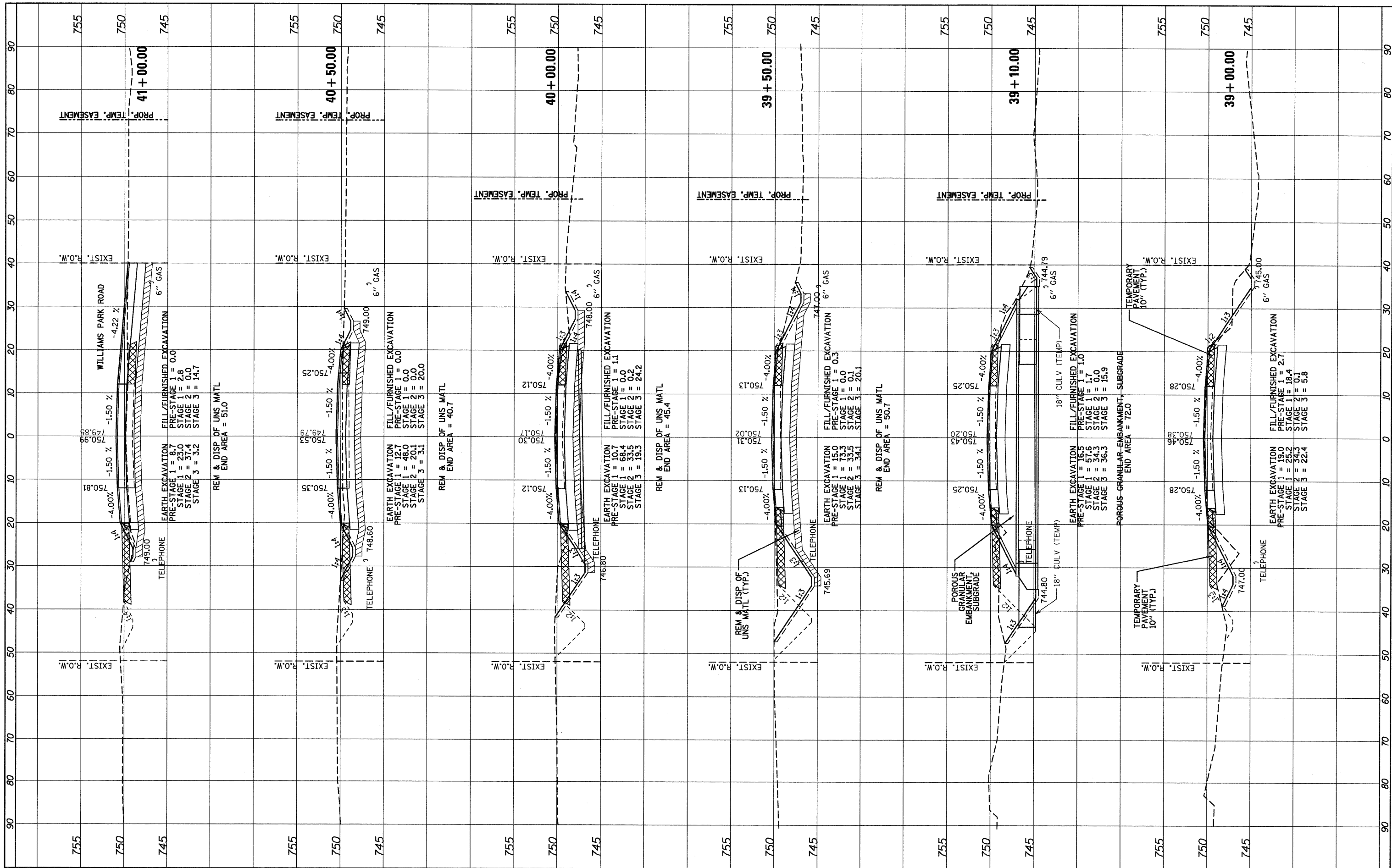
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS

SCALE: 1"=10' (HORIZ.) 1"=5' (VERT.) SHEET NO. 3 OF 16 SHEETS STA. 37+00.00 TO STA. 38+50.00

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| F.A.P. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 67 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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

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| ORIGINAL SURVEY | SURVEYED | BY | DATE |
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| DATE | - 9/14/2011 | REVISED | - |

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

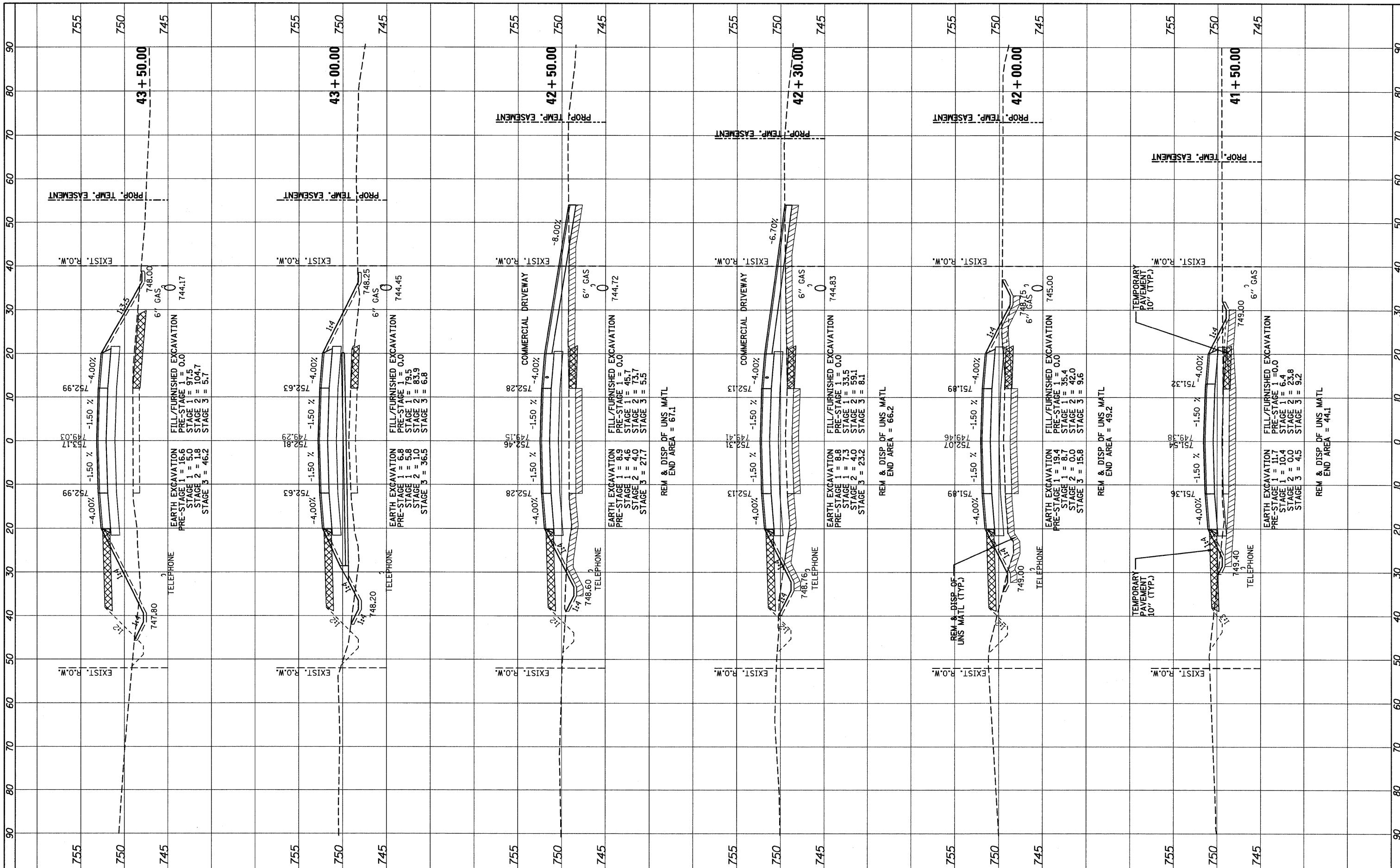
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS
SCALE: 1"=10' (HORIZ.)
1"=5' (VERT.)

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|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 68 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SHEET NO. 4 OF 16 SHEETS STA. 39+00.00 TO STA. 41+00.00

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED NO. BY DATE

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

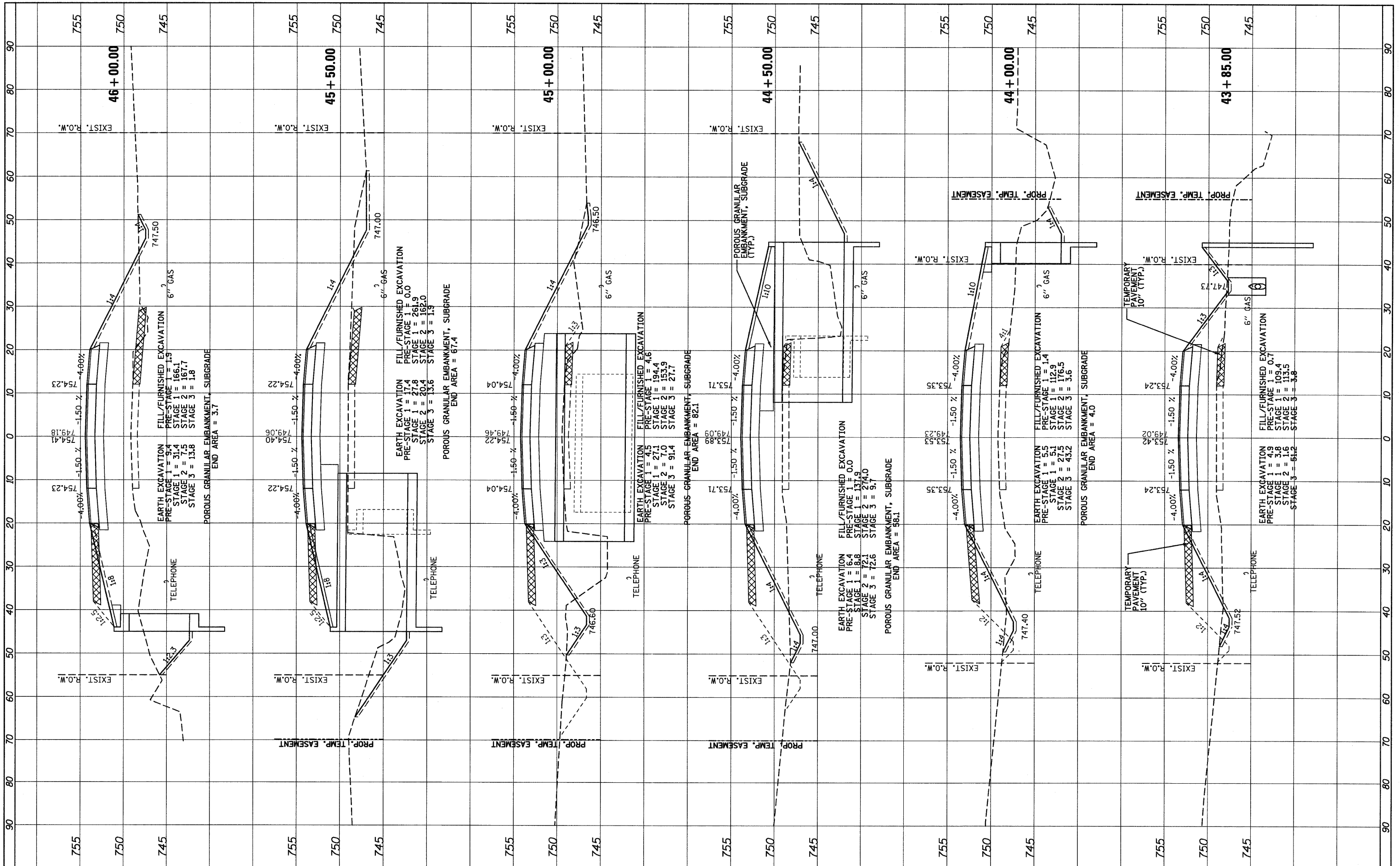
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS

SCALE: 1/2" = 10' (HORIZ.) 1/8" = 2' (VERT.) SHEET NO. 5 OF 16 SHEETS STA. 41+50.00 TO STA. 43+50.00

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|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 69 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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



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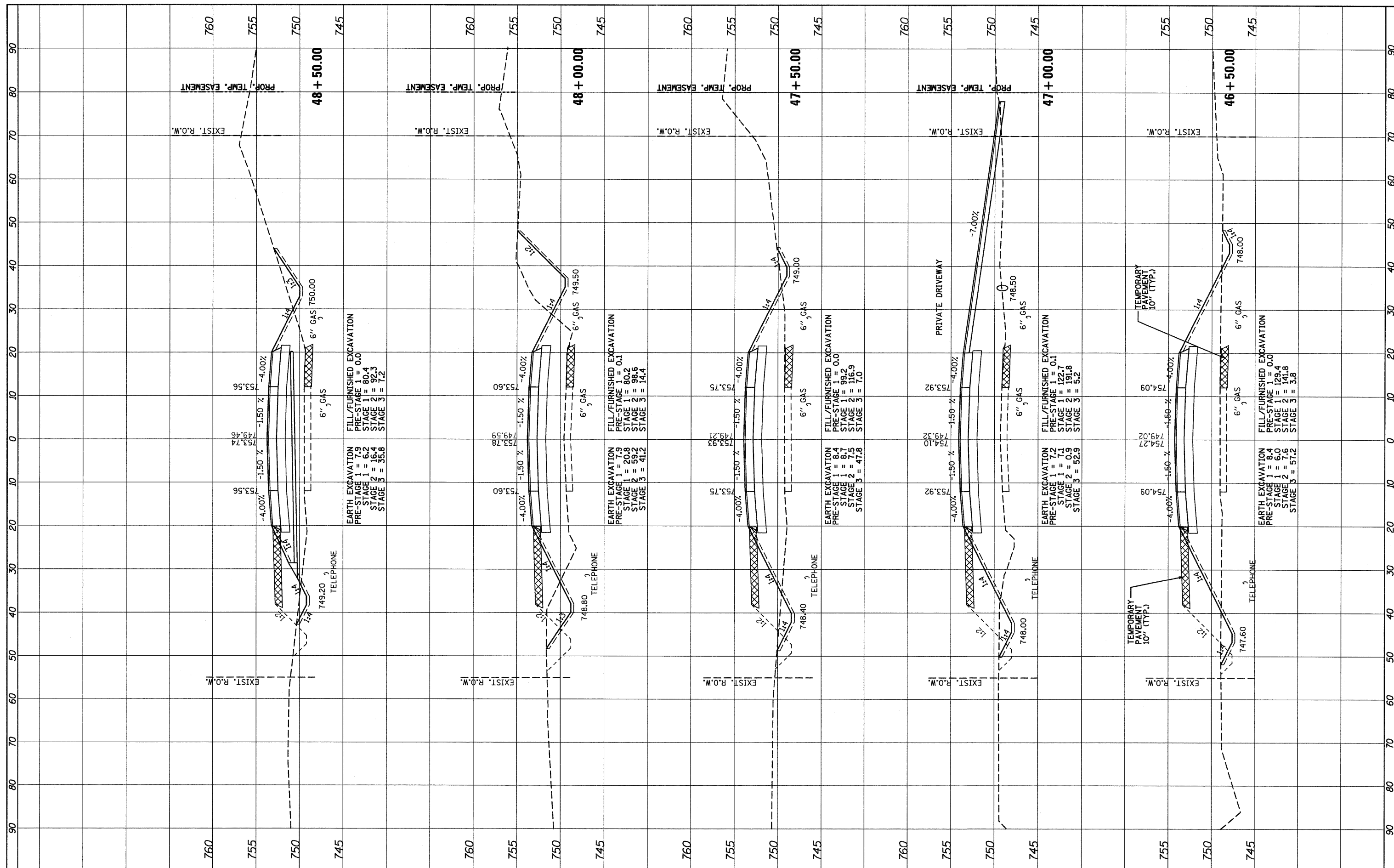
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS
 SCALE: 1/8" = 10' (HORIZ.)
 1/4" = 5' (VERT.)
 SHEET NO. 6 OF 16 SHEETS
 STA. 43+85.00 TO STA. 46+00.00

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|--------------------|---------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 70 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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| FINAL SURVEY | SURVEYED | BY | DATE |
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| DRAWN - GEW | REVISED - |
| CHECKED - RJD | REVISED - |
| DATE - 9/14/2011 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

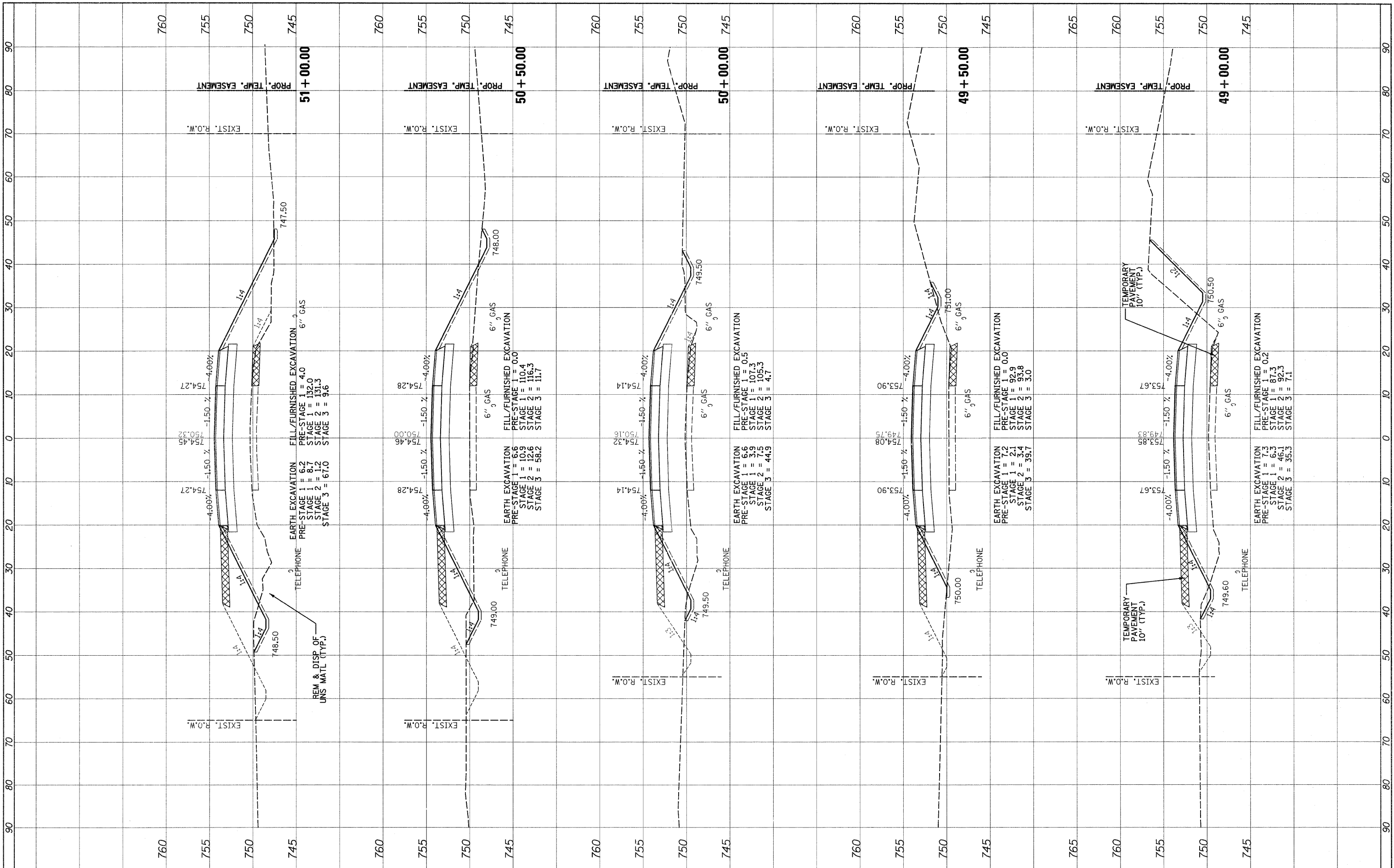
**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS**

SCALE: 1"=20' (HORIZ.) 1"=8' (VERT.) SHEET NO. 7 OF 16 SHEETS STA. 46+50.00 TO STA. 48+50.00

| | | | | |
|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 71 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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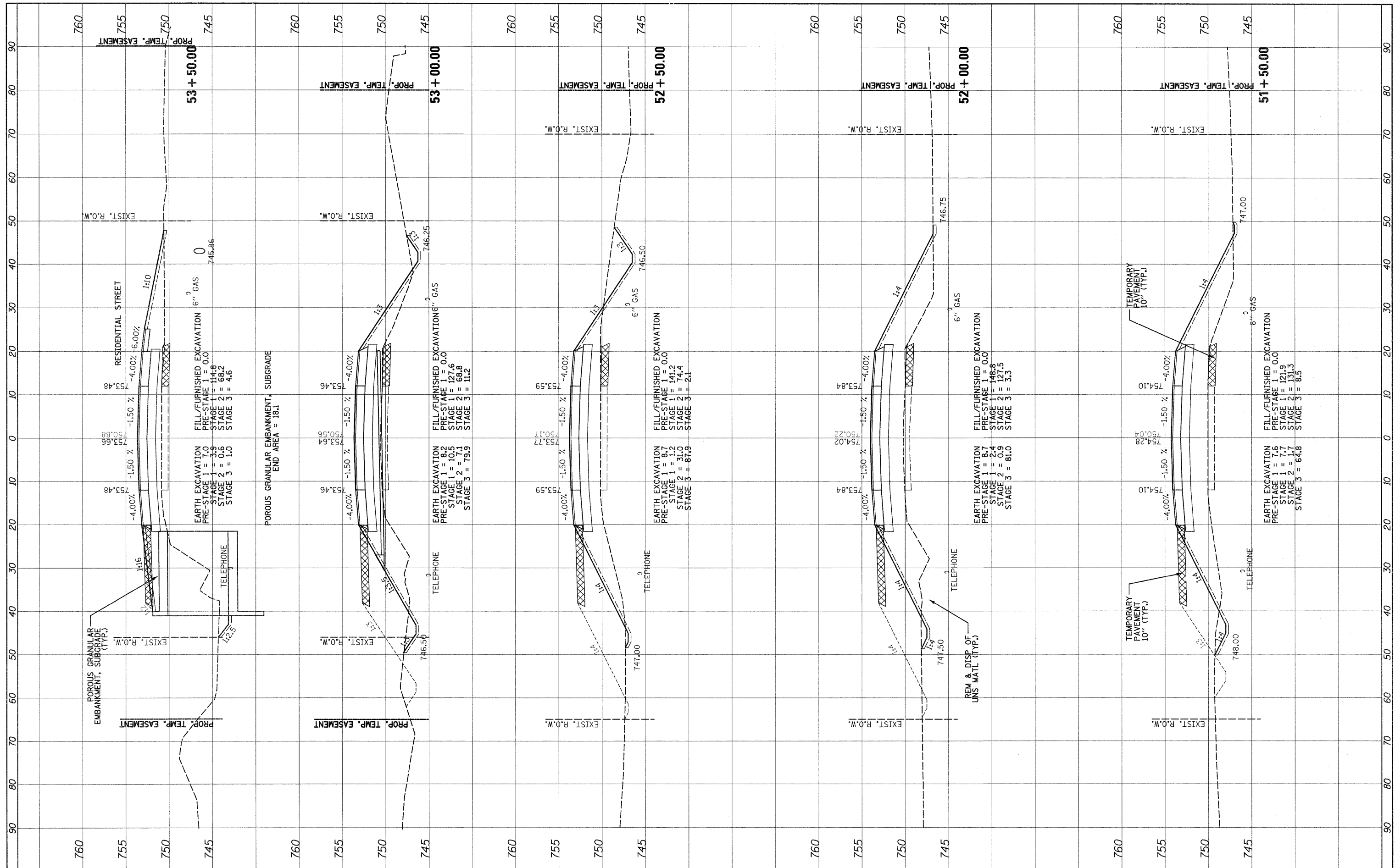
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS
SCALE: 1/4" = 10' (HORIZ.)
1/8" = 5' (VERT.)
SHEET NO. 8 OF 16 SHEETS
STA. 49+00.00 TO STA. 51+00.00

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|---------------------------|--------------------|----------------|--------------------|-----------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 72 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FINAL SURVEY BY DATE
 SURVEYED PLOTTED
 NOTE BOOK AREA DATE
 AREAS CHECKED

ORIGINAL SURVEY BY DATE
 SURVEYED PLOTTED
 NOTE BOOK AREA DATE
 AREAS CHECKED



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 DATE - 9/14/2011

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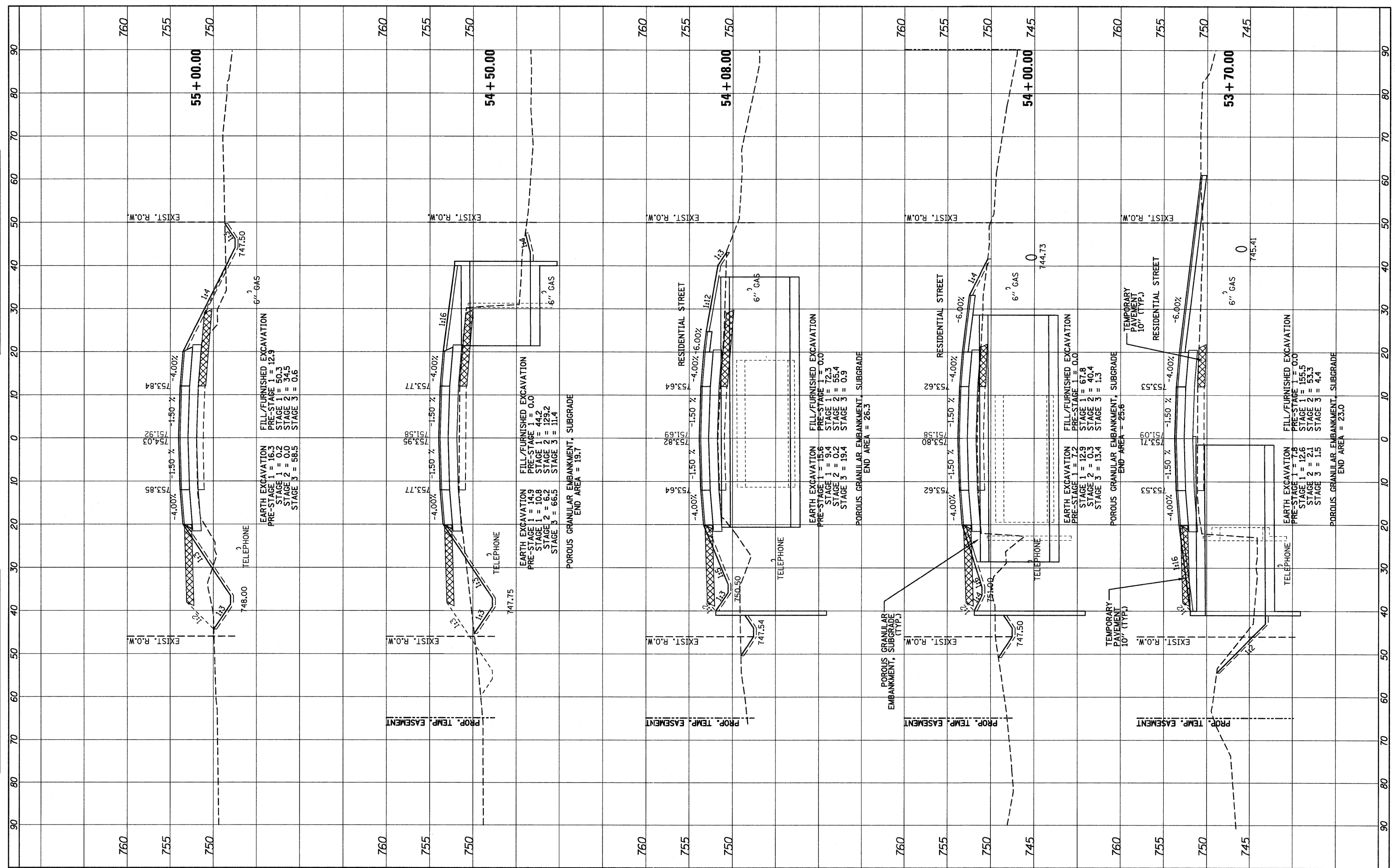
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS
 SCALE: 1"=10' (HORIZ.)
 1"=5' (VERT.) SHEET NO. 9 OF 16 SHEETS STA. 51+50.00 TO STA. 53+50.00

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|---------------------------|-----------------|-------------|-----------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 73 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FINAL SURVEY PLOTTED
NOTE BOOK AREAS CHECKED

ORIGINAL SURVEY PLOTTED
NOTE BOOK AREAS CHECKED



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CHECKED - RJD
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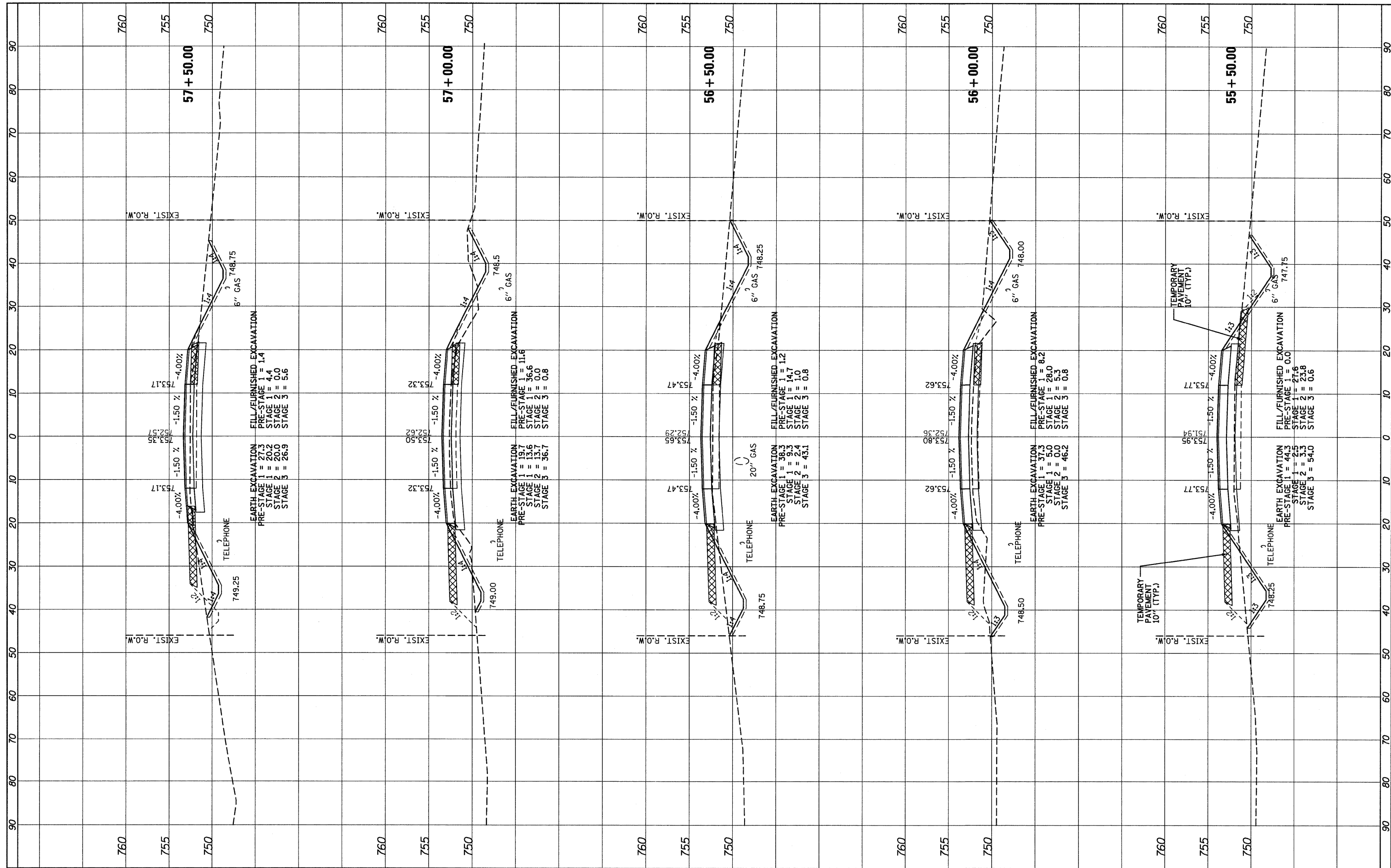
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH CROSS SECTIONS
 SCALE: 1" = 10' (HORIZ.) 1" = 5' (VERT.) SHEET NO. 10 OF 16 SHEETS STA. 53+70.00 TO STA. 55+00.00

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|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 74 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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| CHECKED - RJD | REVISED - |
| DATE - 9/14/2011 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS**

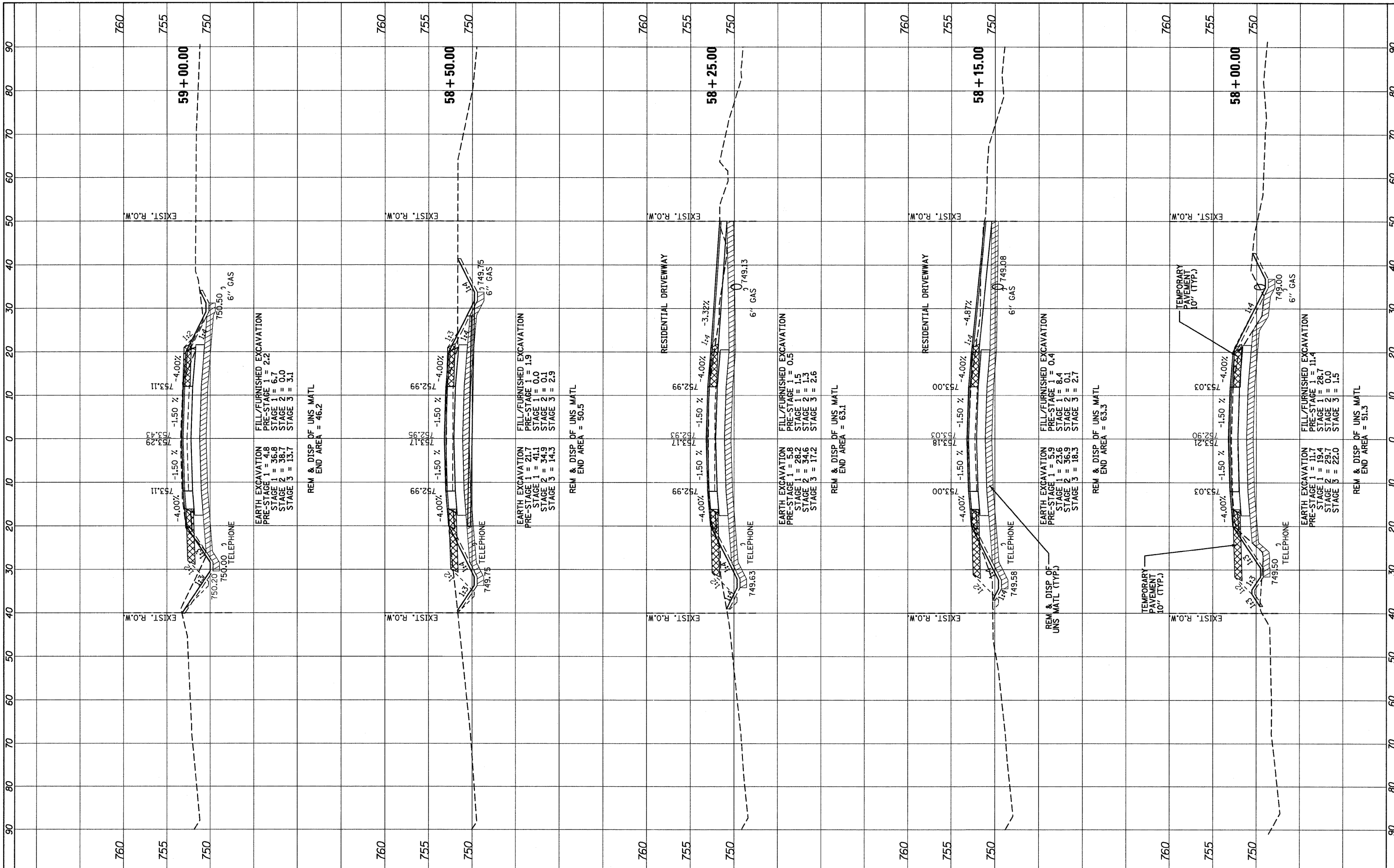
SCALE: 1"=30' (HORIZ.)
 1"=3' (VERT.)

SHEET NO. 11 OF 16 SHEETS STA. 55+50.00 TO STA. 57+50.00

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|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 75 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

FINAL SURVEY
NOTE BOOK
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DATE _____

ORIGINAL SURVEY
NOTE BOOK
NO. _____
DATE _____



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DATE - 9/14/2011

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

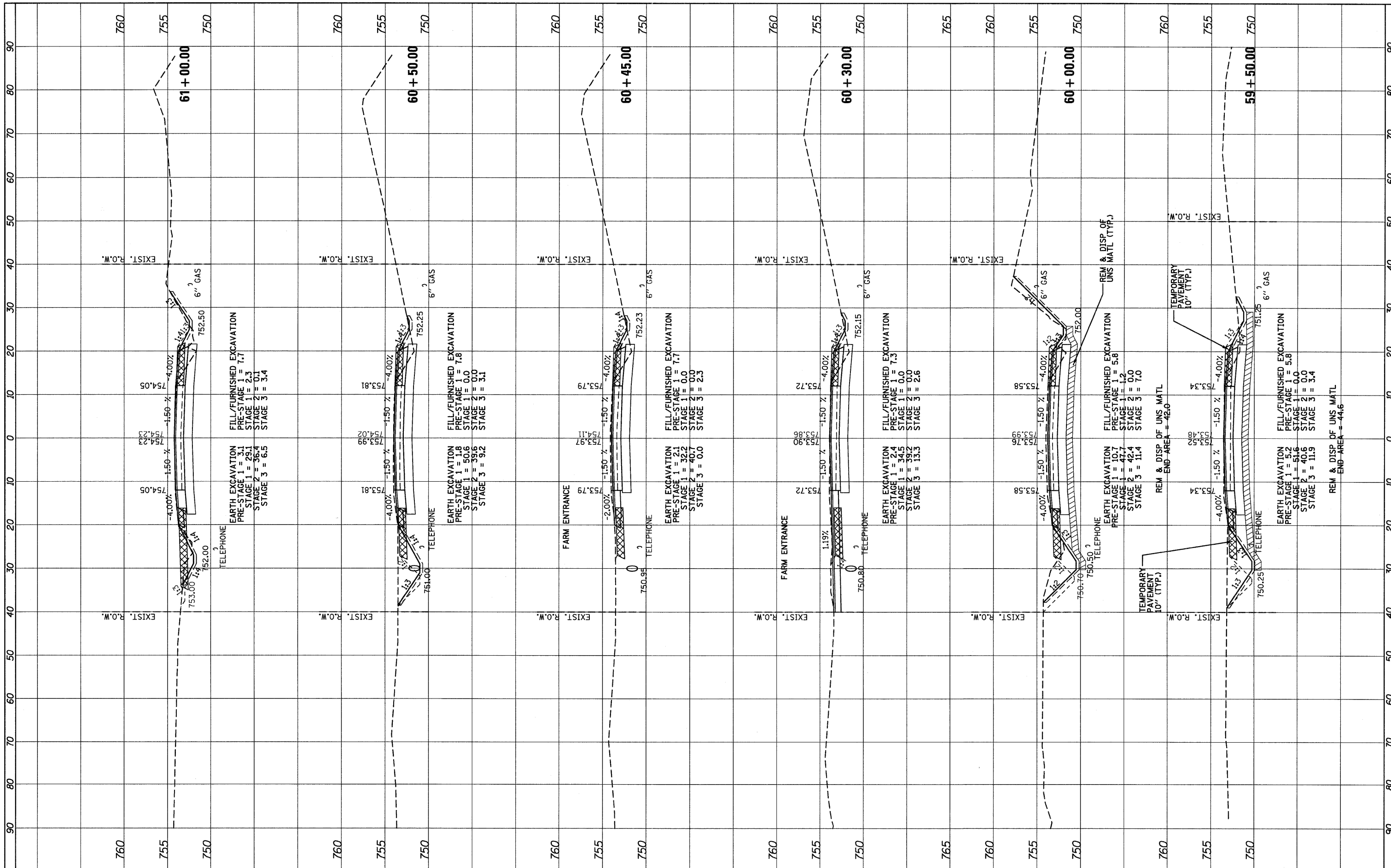
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS

SCALE: 1"=10' (HORIZ.) 1"=5' (VERT.) SHEET NO. 12 OF 16 SHEETS STA. 58+00.00 TO STA. 59+00.00

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|--------------------|-----------------|-------------|---------------------------|--------------|
| F.A.P. R.T.L. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 76 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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| FINAL SURVEY | BY | DATE |
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| DATE | - 9/14/2011 | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

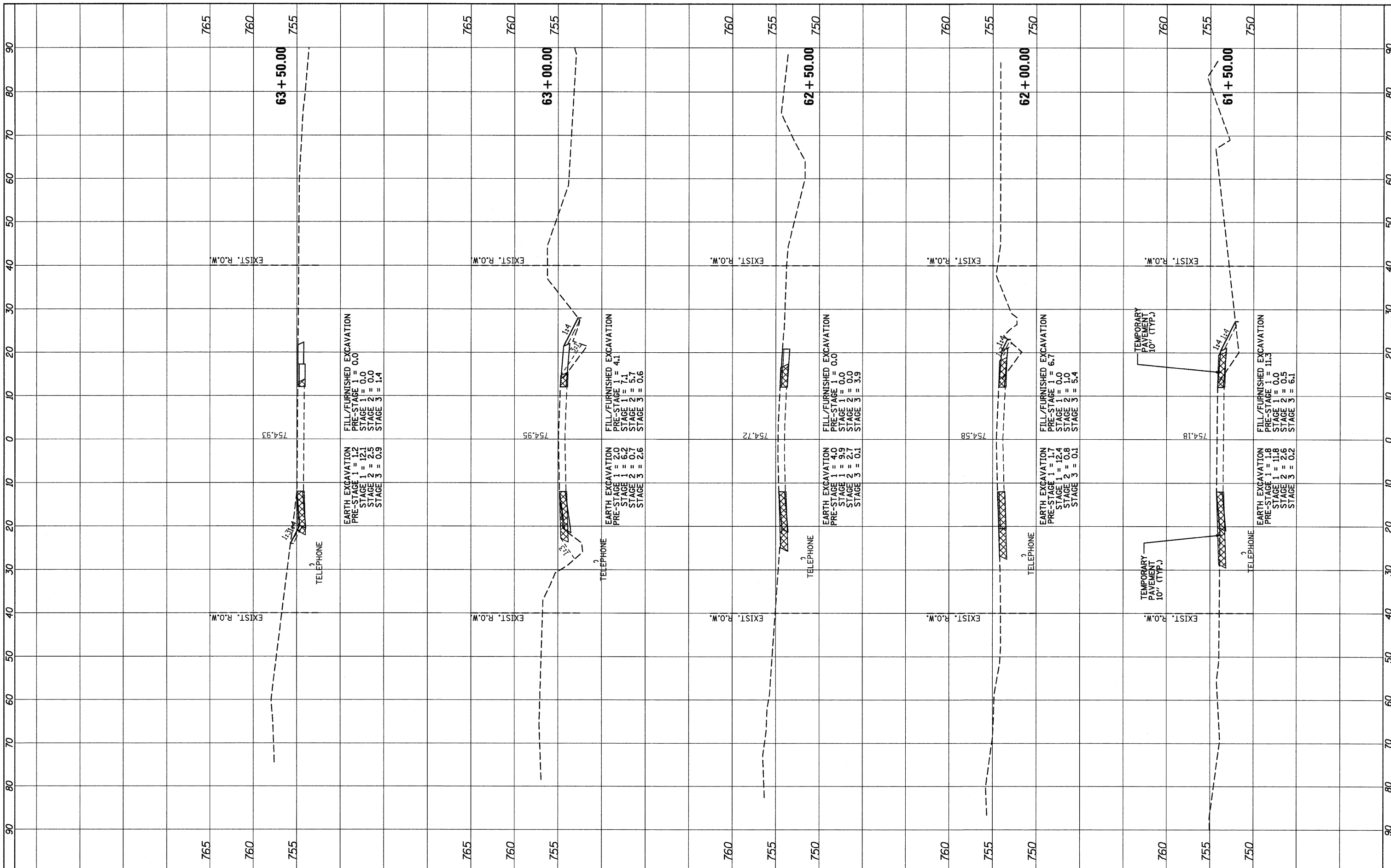
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS

SCALE: 1"=10' (HORIZ.) 1"=5' (VERT.) SHEET NO. 13 OF 16 SHEETS STA. 59+50.00 TO STA. 61+00.00

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|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 77 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FINAL SURVEY
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 NOTE BOOK NO. _____
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ORIGINAL SURVEY
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

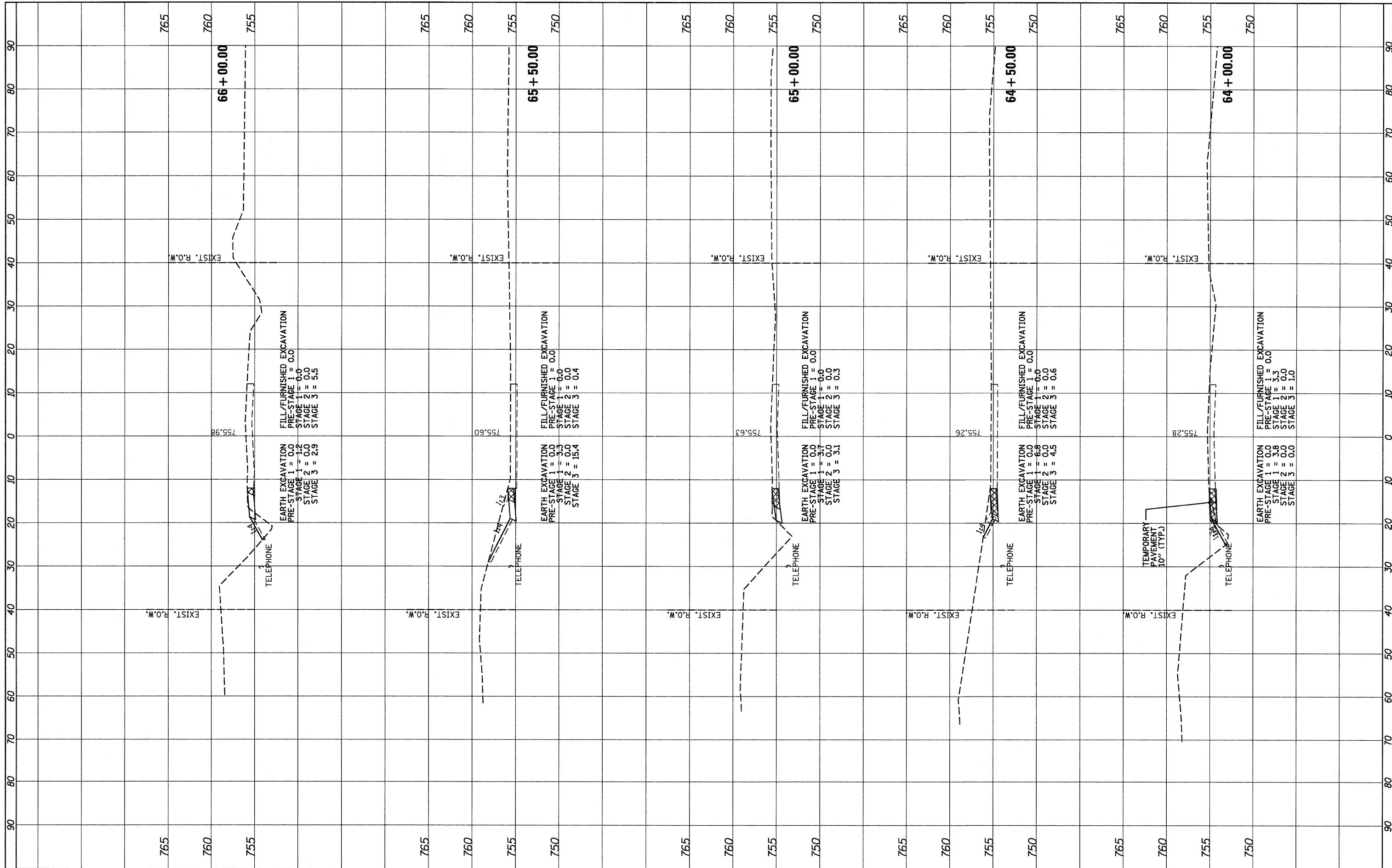
IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS

SCALE: 1"=10' (HORIZ.) 1"=5' (VERT.) SHEET NO. 14 OF 16 SHEETS STA. 61+50.00 TO STA. 63+50.00

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|---------------------------|-----------------|-------------|-----------------|--------------|
| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 78 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

FINAL SURVEY NO. _____
 SURVEYED BY _____ DATE _____
 PLOTTED BY _____
 TEMPLATE NO. _____
 AREAS CHECKED _____

ORIGINAL SURVEY NO. _____
 SURVEYED BY _____ DATE _____
 PLOTTED BY _____
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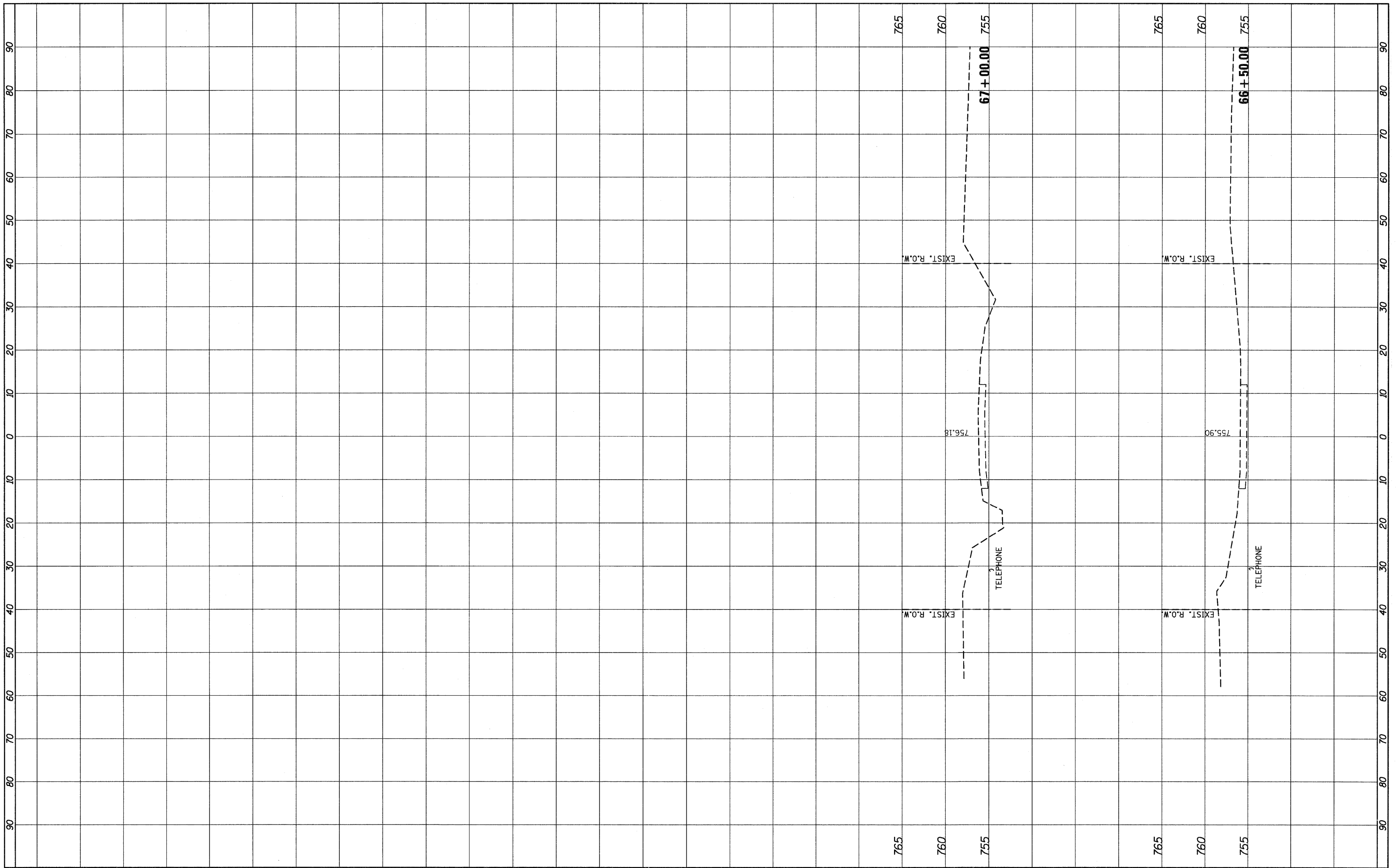
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
 CROSS SECTIONS
 SCALE: 1"=10' (HORIZ.) 1"=8' (VERT.) SHEET NO. 15 OF 16 SHEETS STA. 64+00.00 TO STA. 66+00.00

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| F.A.P. RTE. 335 | SECTION 145 X-T | COUNTY LAKE | TOTAL SHEETS 80 | SHEET NO. 79 |
| CONTRACT NO. 62187 | | | ILLINOIS FED. AID PROJECT | |

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| FINAL SURVEY | DATE |
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 176 (SLOCUM LAKE ROAD) OVER BANGS LAKE DRAINAGE DITCH
CROSS SECTIONS

SCALE: 1"=10' (HORIZ.)
 1"=5' (VERT.)

SHEET NO. 16 OF 16 SHEETS STA. 66+50.00 TO STA. 67+00.00

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|---------------------------|---------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145 X-T | LAKE | 80 | 80 |
| CONTRACT NO. 62187 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |