

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

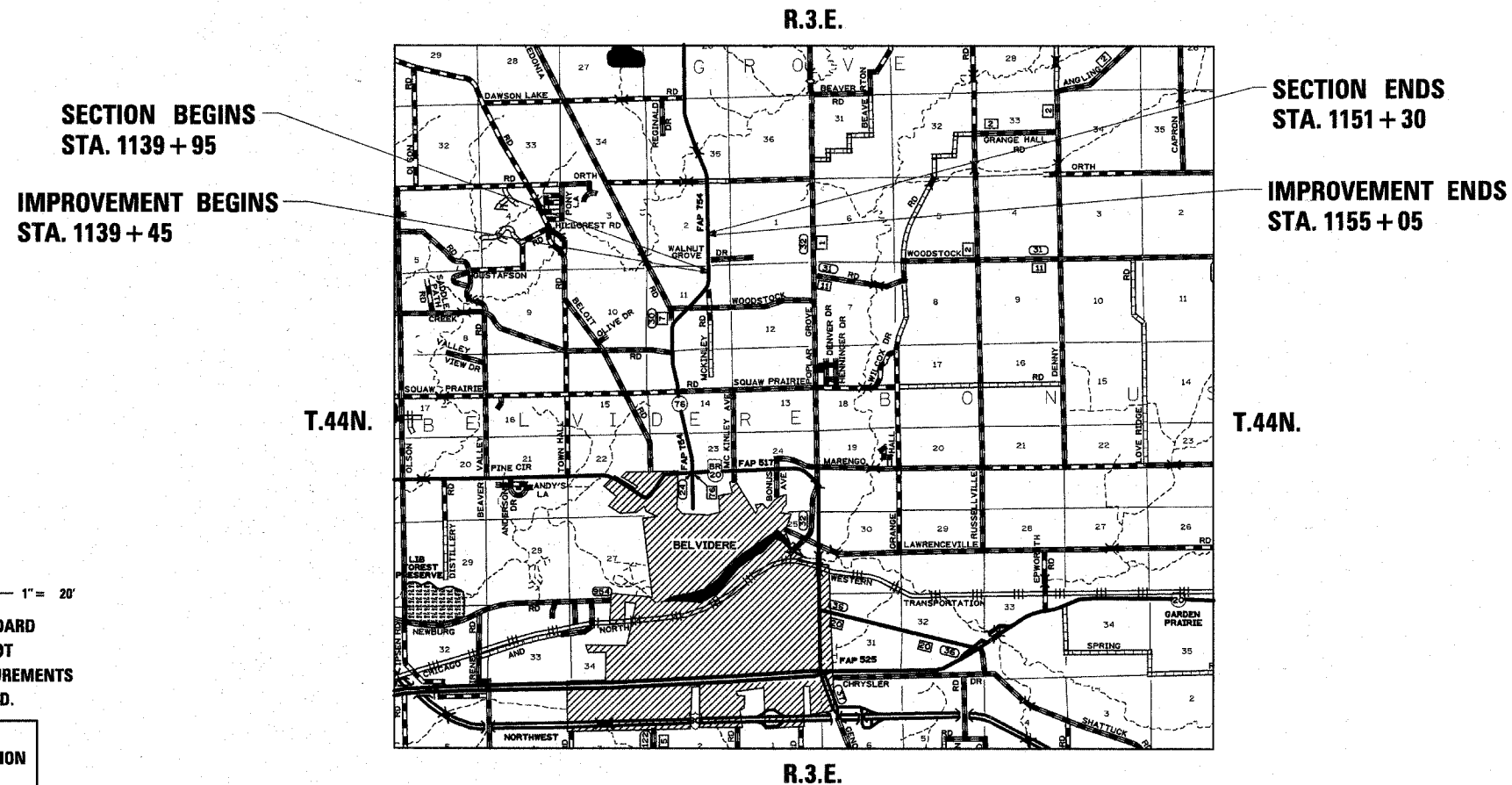
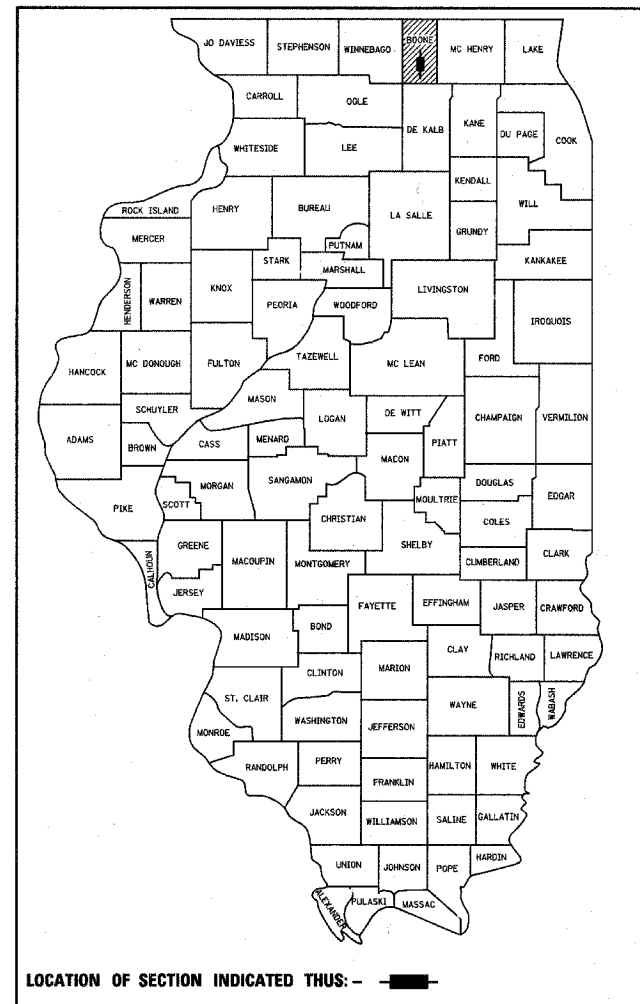
F.A.P. ROUTE 754 (IL 76)
 SECTION 101M
 PROJECT F-0754(009)
 BOONE COUNTY
 C-92-029-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR STATE STANDARDS, SEE SHEET NO. 2

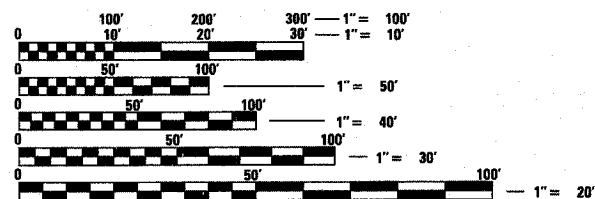
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M	BOONE	48	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64A45		

(IL 76)

D-92-096-04



BELVIDERE TOWNSHIP SECTION - 11



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 ENGINEER: MASOOD AHMAD
 SENIOR SQUAD LEADER: SAM ABDULLAH(815)-284-5935
 SQUAD ENGINEER: MATT FARMER(815)-284-5938

CONTRACT NO. 64A45

NET LENGTH OF PROJECT = 1135 LIN. FEET = 0.215 MILES
 GROSS LENGTH OF PROJECT = 1135 LIN. FEET = 0.215 MILES

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 11, 2008

James F. Brown
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9, 2008
Eric E. Jarama
 ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008
Christina M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS AND STATE STANDARDS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS AND STATE STANDARDS
- 3-4 GENERAL NOTES
- 5 SUMMARY OF QUANTITIES
- 6-7 TYPICAL SECTIONS
- 8-9 SCHEDULE OF QUANTITIES
- 10 BITUMINOUS SCHEDULE
- 11 ENTRANCE SCHEDULE
- 11 EARTHWORK SCHEDULE
- 12-13 VERTICAL & HORIZONTAL CONTROL
- 14-15 PLAN AND PROFILE SHEETS
- 16-18 PAVEMENT ELEVATION SHEETS
- 19 R.O.W. AND EASEMENT PLANS
- 20 PAVEMENT MARKING DETAILS
- 21 EROSION CONTROL AND SEEDING PLANS
- 22 TYPICAL AGGREGATE BASE SIDEROAD DETAIL
- 22 PRIVATE ENTRANCE DETAIL
- 23 STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN (DIST STD 2.1)
- 24 ENTRANCE AND SIDEROADS WITH 2.4m (8") HOT-MIX ASPHALT SHOULDERS (DIST STD 22.1)
- 25 CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS (DIST STD 33.1)
- 26-27 TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
- 28 DETAILS OF PLANTING AND BRACING TREES (DIST STD 92.1)
- 29 EROSION CONTROL DETAILS FOR SILT FENCE (DIST STD 29.2)
- 29 WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (DIST STD 66.2)
- 30 ROUGH GROOVED SURFACE SIGN (DIST STD 91.2)
- 30 HOT-MIX ASPHALT SHOULDERS (DIST STD 23.4a)
- 30 DELINEATOR AND POST ORIENTATION (DIST STD 37.4)
- 31 TYPICAL BENCHING DETAIL ON EXISTING EMBANKMENT (DIST STD 50.4)
- 31 TREE REPLACEMENT SCHEDULE (DIST STD 90.4)
- 32-41 CROSS SECTIONS - IL RTE 76
- 42-48 CROSS SECTIONS - WALNUT GROVE DRIVE

STATE STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-01 AREAS OF REINFORCEMENT BARS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 542401 METAL END SECTIONS FOR PIPE CULVERTS
- 635001 DELINEATORS
- 666001 RIGHT-OF-WAY MARKERS
- 701006-02 OFF-ROAD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \geq 45MPH
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \geq 45MPH
- 701701-05 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901 TRAFFIC CONTROL DEVICES
- 720011 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001 TELESCOPING STEEL SIGN SUPPORT
- 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME = <small>o:\projects\p209604\09604cwr.dgn</small>	USER NAME = polzinej DESIGNED - DRAWN - CHECKED - DATE -	REVISED - 10-10-06 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS - STATE STANDARDS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="font-size: small;">F.A.P. RTE.</th> <th style="font-size: small;">SECTION</th> <th style="font-size: small;">COUNTY</th> <th style="font-size: small;">TOTAL SHEETS</th> <th style="font-size: small;">SHEET NO.</th> </tr> <tr> <td style="text-align: center;">754</td> <td style="text-align: center;">101M</td> <td style="text-align: center;">BOONE</td> <td style="text-align: center;">48</td> <td style="text-align: center;">2</td> </tr> <tr> <td colspan="5" style="text-align: center; font-size: x-small;">CONTRACT NO. 64A45</td> </tr> <tr> <td colspan="5" style="text-align: center; font-size: x-small;">FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	754	101M	BOONE	48	2	CONTRACT NO. 64A45					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																					
754	101M	BOONE	48	2																					
CONTRACT NO. 64A45																									
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT																									
			SCALE: SHEET NO. OF SHEETS STA. TO STA.																						

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 754 (IL 76)	101M	Boone	48	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A45				

See cross sections for special ditches and backslopes.

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

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

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

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

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

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

Except for the top 75 mm (3"), all aggregate bases and subbases on Walnut Grove Drive 300 mm (12") in thickness or more shall be constructed of aggregate gradation CA-2. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

Except for the top 75 mm (3"), all aggregate bases and subbases on IL 76 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

The existing hot-mix asphalt surface on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Binder	Top Shoulder	Bottom Shoulder	HMA Special
PG:	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 58-22
Design Air Voids	4.2 @ N70	4.2 @ N70	4.2 @ N70	3 @ N50	2 @ N50	4 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 19.0	IL 9.5 or 12.5	BAM	IL 9.5 or 12.5
Friction Aggregate	D	N/A	N/A	C	N/A	C
20 Year ESAL	2.7	2.7	2.7	N/A	N/A	N/A

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

Reflective Crack Control shall be placed on the existing surface prior to any resurfacing, unless pavement is milled then it will be placed on the binder course.

On full depth pavement, shoulder widths of 1.8 m (6 ft.) or less may be placed, at the Contractor's option, simultaneously with the adjacent traffic lane for both the binder and surface courses, provided the cross slope of both the pavement and shoulder can be satisfactorily obtained. The shoulder will be paid for at the contract unit price per Square Meter (Square Yard) for HOT-MIX ASPHALT SHOULDERS of the thickness specified on the plans.

The Contractor shall clean out all AR culverts and stream flows to the right-of-way lines on the entire section. The cost shall be included in the contract unit price for PIPE CULVERTS, CL A, TY 1 30".

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

It is anticipated that several mailboxes will require relocation to the approach side of the entrances. When this is done, the contractor shall be required to mount the mailbox on a 100 mm x 100 mm (4" x 4") wood post 1 m (40 inches) above the shoulder surface and extending to a minimum of 0.6 m (24 inches) into the embankment. This work shall be included in the contract unit price for the EARTH EXCAVATION. There are an estimated 8 mailboxes to be relocated.

If, during the grinding or resurfacing operations, the existing mailboxes become a hindrance, the Contractor shall be required to carefully remove and reinstall the mailboxes as directed by the Engineer. This work shall be included in the contract unit price for the INCIDENTAL HOT-MIX ASPHALT SURFACING.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See the Summary of Quantities for the estimated quantities.

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

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

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

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on Highway Standard 667101.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 754 (IL 76)	101M	Boone	48	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A45				

Commitments

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

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

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

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

Mediacom	Commonwealth Edison Co.
Verizon	NICOR Gas Co.
Insight Communications of Rockford	

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

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

Tree planting layout shall be performed by the District Landscape Architect. The trees will be spaced at five foot intervals. The length of the planting shall be determined by the total number of trees. The width shall be five feet. This entire area shall be mulched with hardwood wood chips, four inches thick, with weed barrier fabric. If the trees are to be placed at random, then each tree shall receive a five foot diameter of hardwood wood chips, four inches thick, with weed barrier fabric.

- As discussed with the Studies & Plans Engineer and the Project Engineer, this project will use the following foreslope to minimize impacts:
* Left Station 12+75 to 12+90 – 1:3 foreslope
- The Eddington front yard property at 4884 Walnut Grove Drive has a septic field that is not to be disrupted. No project work, including equipment or material storage, driving vehicles and equipment shall take place beyond the construction limits in the Eddington property front yard from the east side of their entrance to the Lancaster entrance.
- The tree at Station 13+20 offset 50 ft. Lt. on the Lancaster property shall be saved.
- The Conkling front yard property's private entrance at 4893 Walnut Grove Drive has two decorative stone block pillars that are not to be disrupted throughout construction of their new private entrance. No project work, including equipment or material storage, driving vehicles and equipment shall take place beyond the construction limits in the Conkling property entrance.
- The Lancaster front yard property at 4896 Walnut Grove Drive has a septic field that is not to be disrupted. No project work, including equipment and material storage, driving vehicles or equipment shall take place beyond the construction limits in the Lancaster property.
- The tree at Station 11+60 Rt. that is within the temporary easement will not be disturbed by the Contractor.

SUMMARY OF QUANTITIES

80% Federal 20% State
URBAN
1000

80% Federal 20% State
URBAN
1000

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	202
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16
20101100	TREE TRUNK PROTECTION	EACH	2
20200100	EARTH EXCAVATION	CU YD	2370
* 25000100	SEEDING, CLASS 1	ACRE	0.5
* 25000210	SEEDING, CLASS 2A	ACRE	0.75
* 25000750	MOWING	ACRE	1.25
* 25100630	EROSION CONTROL BLANKET	SQ YD	4889
* 25200100	SODDING	SQ YD	3753
* 25200200	SUPPLEMENTAL WATERING	UNIT	34
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1780
28000300	TEMPORARY DITCH CHECKS	EACH	42
28000400	PERIMETER EROSION BARRIER	FOOT	810
28000500	INLET AND PIPE PROTECTION	EACH	7
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	2099
35100100	AGGREGATE BASE COURSE, TYPE A	TON	3178
35101400	AGGREGATE BASE COURSE, TYPE B	TON	353
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	1721
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6.0
40600300	AGGREGATE (PRIME COAT)	TON	14
40600535	LEVELING BINDER (HAND METHOD), N70	TON	2.3
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	353
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	310
40600990	TEMPORARY RAMP	SQ YD	52
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	141
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	445
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	88
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2690
44004250	PAVED SHOULDER REMOVAL	SQ YD	1837
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	3405
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	1847
50800105	REINFORCEMENT BARS	POUND	42
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	13

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	280
54213450	END SECTIONS 15"	EACH	14
54248510	CONCRETE COLLAR	CU YD	1
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	100
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2
61140000	STORM SEWERS (SPECIAL) 8"	FOOT	100
61140100	STORM SEWERS (SPECIAL) 10"	FOOT	100
61140200	STORM SEWERS, SPECIAL 12"	FOOT	100
63500105	DELINEATORS	EACH	2
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	4
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	504
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	56
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	188
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	9645
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	801
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	328
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	25
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	100
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	36
* D2003872	EVERGREEN, THUJA OCCIDENTALIS TECHN (TECHNY ARBORVITAE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	29
XX003437	REMOVE AND REINSTALL EXISTING PRECAST REINFORCED CONCRETE FLARED END SECTIONS	EACH	1
X0325911	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	TON	300
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	9
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	1000

* SPECIALTY ITEMS

NP- 100% STATE

FILE NAME = c:\projects\p289684\d09684\crr.dgn	USER NAME = polzinej	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 11 07:37:43 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

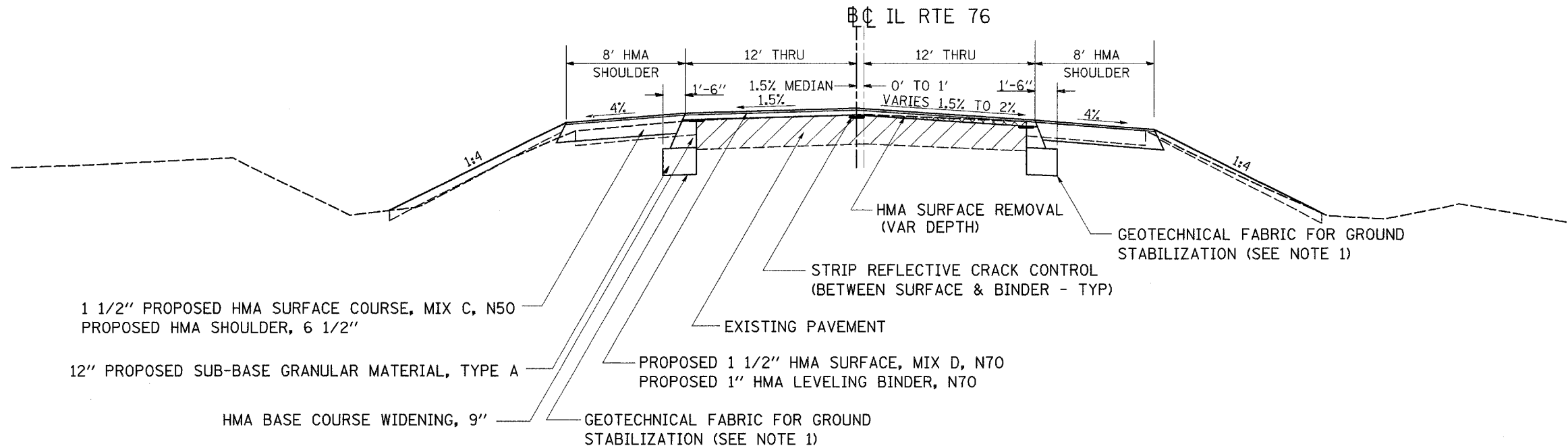
SUMMARY OF QUANTITIES

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

F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64A45	

PROPOSED TYPICALS

STA 1139+95 TO STA 1140+39.34

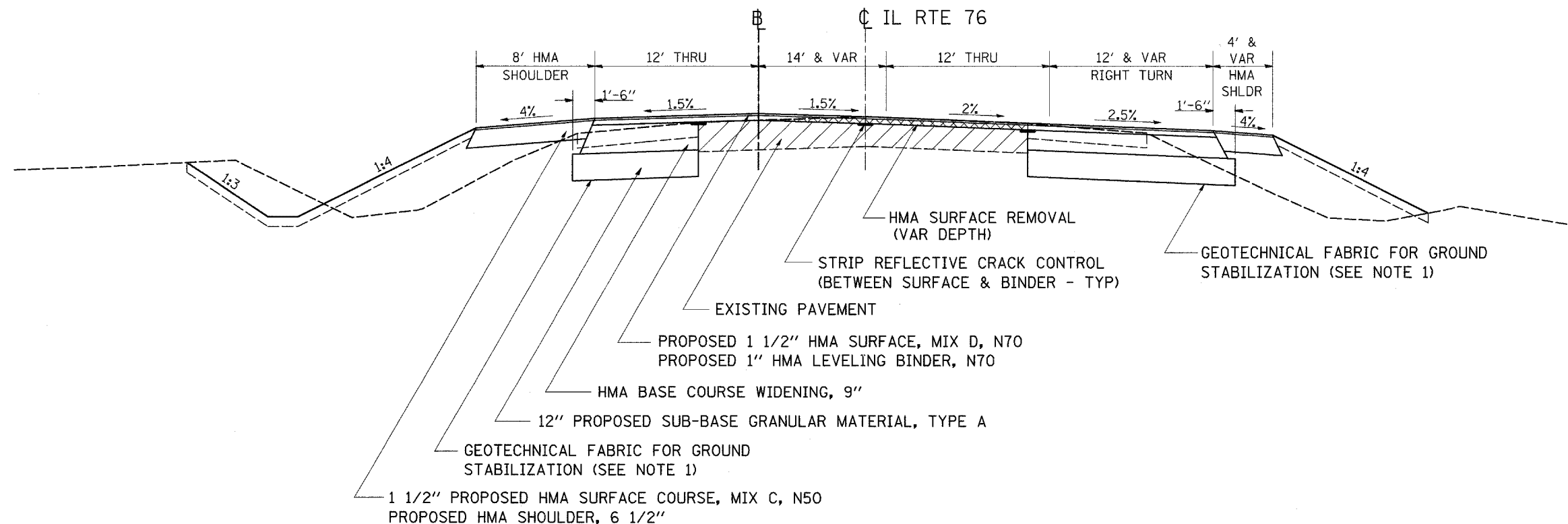


RATE OF APPLICATION = 112 LB/SQ YD/IN (MIX "C" & MIX "D")

NOTE 1:

STA 1141+00 - STA 1145+50 RT
 STA 1141+00 - STA 1145+50 LT

STA 1140+39.34 TO STA 1146+78.40



RATE OF APPLICATION = 112 LB/SQ YD/IN (MIX "C" & MIX "D")

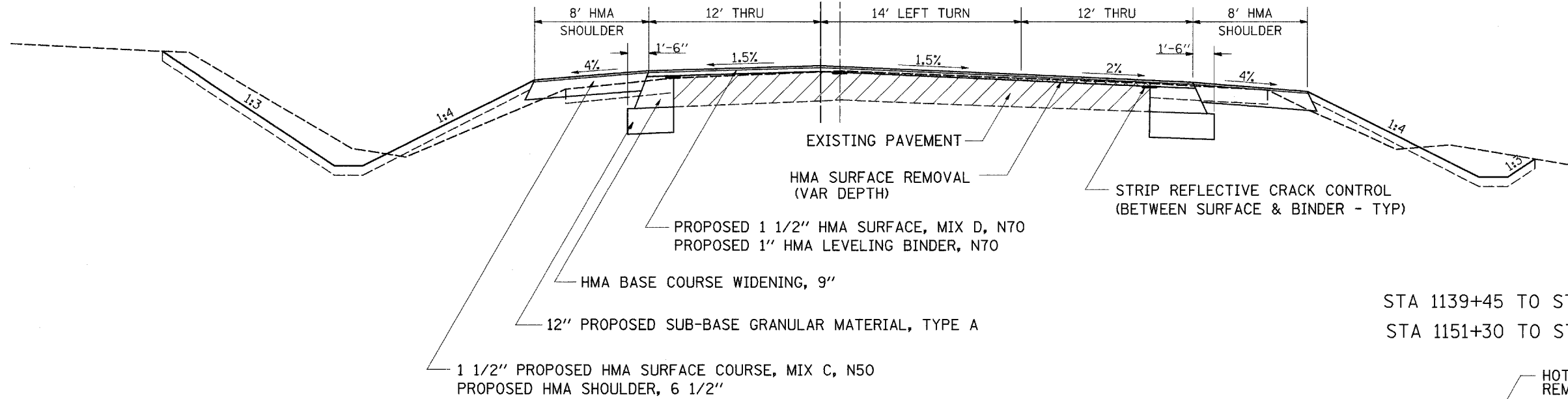


FILE NAME = c:\projects\p209604\d09604typ.dgn	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICALS			F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 6
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -					CONTRACT NO. 64A45				
PLOT DATE = Tue Mar 11 07:55:14 2008	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

PROPOSED TYPICALS

STA 1146+78.40 TO STA 1151+30

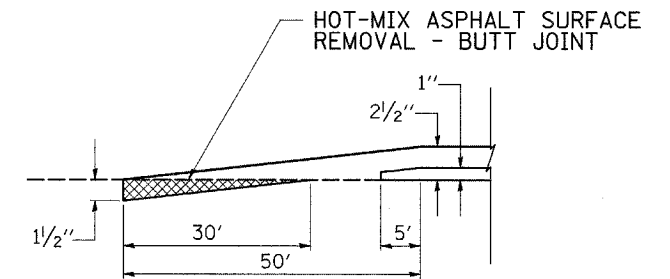
IL RTE 76



1 1/2" PROPOSED HMA SURFACE COURSE, MIX C, N50
 PROPOSED HMA SHOULDER, 6 1/2"
 HMA BASE COURSE WIDENING, 9"
 12" PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A

RATE OF APPLICATION = 112 LB/SQ YD/IN (MIX "C" & MIX "D")

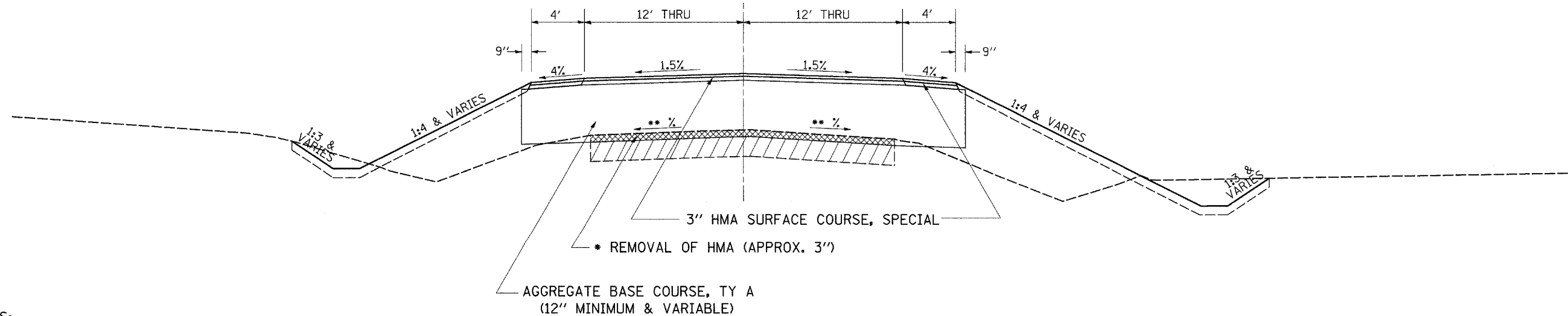
STA 1139+45 TO STA 1139+95
 STA 1151+30 TO STA 1151+80



BUTT JOINT DETAIL (MAINLINE)

STA 10+50 TO STA 14+75

WALNUT GROVE DR



AGGREGATE BASE COURSE, TY A
 (12" MINIMUM & VARIABLE)

REMOVAL

NOTES:

- * COST INCLUDED IN EARTH EXCAVATION
- ** MAINTAIN SLOPE OF EXISTING SURFACE

FILE NAME =	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICALS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\projects\p209604\1\09604.tpdgn		DRAWN -	REVISED -					754	101M	BOONE	48	7
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 64A45				
PLOT DATE = Tue Mar 11 07:55:14 2008		DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							

SCHEDULE OF QUANTITIES

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION
7	Rt Sta 1147 + 40
6	Rt Sta 1147 + 61
7	Rt Sta 1147 + 84
6	Rt Sta 1148 + 04
7	Rt Sta 1148 + 55
8	Rt Sta 1148 + 66
7	Rt Sta 1149 + 67
7	Rt Sta 1149 + 74
7	Rt Sta 1149 + 80
6	Rt Sta 1149 + 86
7	Rt Sta 1149 + 92
7	Rt Sta 1150 + 00
7	Rt Sta 1150 + 05
7	Rt Sta 1150 + 12
6	Rt Sta 1150 + 16
6	Rt Sta 1150 + 17
8	Rt Sta 1150 + 20
6	Rt Sta 1150 + 23
8	Rt Sta 1150 + 25
6	Rt Sta 1150 + 27
8	Rt Sta 1150 + 30
6	Rt Sta 1150 + 34
10	Rt Sta 1150 + 38
6	Rt Sta 1150 + 40
6	Rt Sta 1150 + 44
14	Rt Sta 1150 + 49
6	Rt Sta 1150 + 54
10	Rt Sta 1150 + 68
202	TOTAL

TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION
16	Rt Sta 1150+64
16	TOTAL

TREE TRUNK PROTECTION

EACH	LOCATION
1	Rt Sta 11+40
1	Lt Sta 13+20
2	TOTAL

SEEDING, CLASS 1

ACRE	LOCATION
0.27	Rt Sta 1139+45 - 1146+29
0.21	Rt Sta 1147+12 - 1151+50
0.48	TOTAL

SEEDING, CLASS 2A

ACRE	LOCATION
0.53	Lt Sta 1139+45 - 1151+50
0.53	TOTAL

MOWING

ACRE	LOCATION
1.1	Sta 1139+45 - 1151+50
1.1	TOTAL

EROSION CONTROL BLANKET

SQ YD	LOCATION
1306.8	Rt Sta 1139+45 - 1146+29
1016.4	Rt Sta 1147+12 - 1151+50
2565.2	Lt Sta 1139+45 - 1151+50
4888.4	TOTAL

SODDING

SQ YD	LOCATION
2005.3	Sta 10+50 - 14+75
1747.5	Sta 10+50 - 14+79
3752.8	TOTAL

SUPPLEMENTAL WATERING

UNIT	LOCATION
34	Sta 10+50 - 14+79
34	TOTAL

TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION
1010	IL 76 Sta 1139+45 - 1151+80
770	Walnut Grove Dr. Sta 10+50 - 14+75
1780	TOTAL

PERIMETER EROSION BARRIER

FOOT	LOCATION
495	Sta 1142+00 - 1145+30
315	Sta 1147+28 - 1150+01
810	TOTAL

SUB-BASE GRANULAR MATERIAL, TYPE A 12"

SQ YD	LOCATION
1170.2	Rt Sta 1139+95 - 1151+30
928	Lt Sta 1139+95 - 1151+30
2098.2	TOTAL

AGGREGATE BASE COURSE, TYPE A

TON	LOCATION
3177.5	Sta 10+29 - 14+75
3177.5	TOTAL

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION
126.7	Sta 1139+45 - 1139+75
183.3	Sta 1151+50 - 1151+80
310	TOTAL

TEMPORARY RAMP

SQ YD	LOCATION
21.1	Sta 1139+45
30.6	Sta 1151+80
51.7	TOTAL *Includes quantity to place ramp on shoulder that has butt joint

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

SQ YD	LOCATION
2690	Sta 1139+95 - 1151+30
2690	TOTAL

PAVED SHOULDER REMOVAL

SQ YD	LOCATION
662	Rt. Sta. 1139+45 - 1146+67
76.7	Rt. Sta. 1146+91 - 1151+80
1097.8	Lt. Sta. 1139+45 - 1151+80
1836.5	TOTAL

STRIP REFLECTIVE CRACK CONTROL TREATMENT

FOOT	LOCATION
1135	Lt. Sta. 1139+95 - 1151+30
1135	Rt. Sta. 1139+95 - 1151+30
1135	CL Sta 1139+95 - 1151+30
3405	TOTAL

REINFORCEMENT BARS

POUND	LOCATION
42	Rt Sta 1150+88
42	TOTAL

PIPE CULVERTS, CLASS A, TYPE 1 30"

FOOT	LOCATION
13	Rt Sta 1150+88 *See note on cross section
13	TOTAL

PIPE CULVERTS, CLASS D, TYPE 1 15"

FOOT	LOCATION
41	IL 76 LT Sta. 1143+50
35	Walnut Grove Drive LT Sta. 11+20
37	RT Sta. 11+70
43	LT Sta. 12+40
34	RT Sta. 12+85
44	LT Sta. 13+34
46	LT Sta. 14+36
280	TOTAL

END SECTIONS 15"

EACH	LOCATION
2	IL 76 LT Sta. 1143+50
2	Walnut Grove Drive LT Sta. 11+20
2	RT Sta. 11+70
2	LT Sta. 12+40
2	RT Sta. 12+85
2	LT Sta. 13+34
2	LT Sta. 14+36
14	TOTAL

CONCRETE COLLAR

CU YD	LOCATION
0.89	Rt Sta 1150+88
0.89	TOTAL

DELINEATORS

EACH	LOCATION
1	LT Sta. 1150+88
1	RT Sta. 1150+88
2	TOTAL

SCHEDULE OF QUANTITIES

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION
1	50' LT 1141+00
1	70' LT 1145+00
1	70' LT 1149+00
1	55' LT 1150+00
4	TOTAL

PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION
2	Contact Resident Engineer or Mike Blumhoff
2	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

SQ FT	LOCATION
15.6	Sta 1143+58.2 Right Turn Arrow
15.6	Sta 1144+33.2 Right Turn Arrow
15.6	Sta 1145+8.2 Right Turn Arrow
15.6	Sta 1145+84.4 Right Turn Arrow
15.6	Sta 1147+56.5 Left Turn Arrow
15.6	Sta 1148+31.5 Left Turn Arrow
15.6	Sta 1149+6.3 Left Turn Arrow
15.6	Sta 1149+81.4 Left Turn Arrow
15.6	Sta 1152+70.8 Right Turn Arrow
15.6	Sta 1153+40.8 Right Turn Arrow
15.6	Sta 1154+10.8 Right Turn Arrow
15.6	Sta 1154+80.8 Right Turn Arrow
187.2	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
<u>IL RTE 76</u>	
812.2	Rt. Sta 1139+45 - 11+46 WHITE EDGE
2568.1	Sta 1139+45 - 1146+33 YELLOW MEDIAN
755.3	Rt. Sta 10+80 - 1154+88 WHITE EDGE
3111.8	Sta 1147+30 - 1155+06 YELLOW MEDIAN
1559.1	Lt. Sta 1139+45 - 1155+06 WHITE EDGE
<u>Walnut Grove</u>	
395	Lt. Sta 10+80 - 14+75 WHITE EDGE
333	Rt. Sta 11+42 - 14+75 WHITE EDGE
110	Sta 10+50 - 14+75 YEL SKIP
9644.5	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LINE 8"

FOOT	LOCATION
285.7	Sta 1143+43 - 1146+29 Rt. Turn Lane
264.7	Sta 1147+31 - 1149+96 Lt. Turn Lane
250	Sta 1152+56 - 1155+06 Rt. Turn Lane
800.4	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LINE 12"

FOOT	LOCATION
132.5	Sta 1139+95 - 1146+33 Yellow Median Diagonals
194.7	Sta 1150+63 - 1155+06 Yellow Median Diagonals
327.2	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LINE 24"

FOOT	LOCATION
24.3	Rt Sta 10+47 White Stop Bar
24.3	TOTAL

RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION
100	Sta 1139+45 - 1152+61
100	TOTAL

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
36	Sta 1139+45 1151+80
36	TOTAL

EVERGREEN, THUJA OCCIDENTALIS TECHN (TECHNY ARBORVITAE), 6' HEIGHT, BALLED AND BURLAPPED

EACH	LOCATION
29	Sta 1148+00 1151+00 *See Landscape Architect
29	TOTAL

REMOVE AND REINSTALL EXISTING PRECAST REINFORCED CONCRETE FLARED END SECTIONS

EACH	LOCATION
1	Rt Sta 1150+88
1	TOTAL

GEOTECHNICAL REINFORCEMENT

SQ YD	LOCATION
500	LT Sta. 1141+00 1145+50
500	RT Sta. 1141+00 1145+50
1000	TOTAL

BITUMINOUS SCHEDULE

Location	Remarks (End Location)	Length	Proposed Surface		Bit Materials Prime Coat (2 Applications)	Agg Prime Coat	Short Term Pavt Marking 3 apps.	Work Zone Pavement Marking Removal	Hot-Mix Asphalt Surf. Cse, Special	Hot-Mix Asphalt Base Course Widening, 9"	** Level Binder,		Hot-Mix Asphalt Surf. Cse. Mix "C", N50 (Mainln Shldr)	Hot-Mix Asphalt Surf. Cse. Mix "D", N70 (Mainline)	Hot-Mix Asphalt Shoulders 6 1/2" (Mainline)
			Width	Sq Yd							(HM) N70 (10 ton/mile)	(MM) N70			
					Ton	Ton	Foot	Sq Ft	Ton	Sq Yd	Ton	Ton	Ton	Ton	Sq Yd
BOONE COUNTY															
IL 76 Mainline															
Sta 139 + 45.0 - 139 + 95.0	Butt Joint	50	24	133.3	0.08	0.20	15.0	1.7			0.1			11.2	
Sta 139 + 95.0 - 143 + 43.0		348	Varies	1246.3	0.71	1.87	104.4	11.6			0.7	87.2		104.7	
Sta 143 + 43.0 - 148 + 13.2		470.2	Varies	2441.2	1.40	3.66	141.1	15.7			0.9	170.9		205.1	
Sta 148 + 13.2 - 151 + 30.0		316.8	Varies	1343.0	0.77	2.01	95.0	10.6			0.6	94.0		112.8	
Sta 151 + 30.0 - 151 + 80.0	Butt Joint	50	24	133.3	0.08	0.20	15.0	1.7			0.1			11.2	
IL 76 Shoulder															
Rt Sta 139 + 45.0 - 139 + 95.0	Butt Joint	50	8	44.4	0.03	0.07							0.0		44.4
Rt Sta 139 + 95.0 - 146 + 9.7		614.7	4 to 8	321.6	0.18	0.48							27.0		321.6
Rt Sta 147 + 30.3 - 151 + 30.0		399.7	4 to 8	338.6	0.19	0.51							28.4		338.6
Rt Sta 151 + 30.0 - 151 + 80.0	Butt Joint	50	8	44.4	0.03	0.07							0.0		44.4
Lt Sta 139 + 45.0 - 139 + 95.0	Butt Joint	50	8	44.4	0.03	0.07							0.0		44.4
Lt Sta 139 + 95.0 - 151 + 30.0		1135	8	1008.9	0.58	1.51							84.7		1008.9
Lt Sta 151 + 30.0 - 151 + 80.0	Butt Joint	50	8	44.4	0.03	0.07							0.0		44.4
IL 76 Widening															
Rt Sta 139 + 95.0 - 151 + 30.0		1155	Varies	981.7						981.7					
Lt Sta 139 + 95.0 - 151 + 30.0		1135	Varies	738.8						738.8					
Walnut Grove Road															
Sta 10 + 32.0 - 11 + 46.8		114.79	32 & Var	617.0	0.35	0.93	34.4	3.8	103.7						
Sta 11 + 46.8 - 14 + 75.0		328.21	32	1167.0	0.67	1.75	98.5	10.9	196.1						
GRAND TOTAL					5.1	13.4	503.4	55.9	299.7	1720.5	2.3	352.1	140.2	445.0	1846.9

** Level binder is to be placed as shown in the typical, however, it was calculated at 1.25"

ENTRANCE SCHEDULE

STATIONING	REMARKS	PROPOSED SURFACE AREA	PROPOSED AGGREGATE AREA	AGGREGATE BASE COURSE TYPE B	BITUMINOUS PRIME	INCIDENTAL HOT-MIX ASPHALT SURFACING
		SQ. YD.	SQ. YD.	TON	TON	TON
Boone						
IL 76						
1143+48 LT	FE		76.9	35.03		
Walnut Grove						
11+20 LT	PE	93.9	106.2	48.38	0.13	13.15
11+70 RT	PE	114.5	130.6	59.50	0.16	16.03
12+40 LT	PE	92.9	101.5	46.24	0.13	13.01
12+85 RT	PE	98.8	111.8	50.93	0.14	13.83
13+34 LT	PE	84.6	93.5	42.59	0.12	11.84
13+57 RT	PE	54.5	59.7	27.20	0.08	7.63
14+36 LT	PE	83.2	92.9	42.32	0.12	11.65
GRAND TOTAL				352.19	0.89	87.14

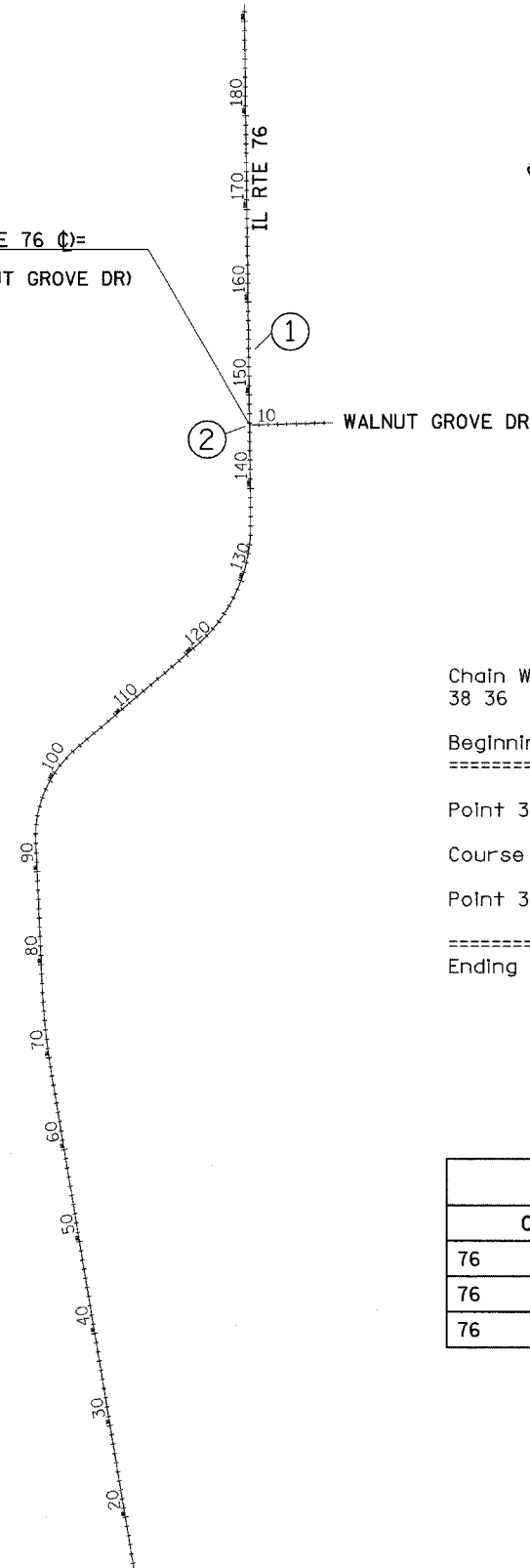
** The INCIDENTAL HMA ASPHALT SURFACING is scheduled for 2" thickness, but it is calculated at 2.5" in this schedule.

EARTHWORK SCHEDULE

LOCATION	EARTH EXC (CUT)	EARTH EXC ADJ SHRINK 25%	EMBANK (FILL)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
IL 76 Mainline				
1139+00 - 1139+50	7	5	1	3
1139+50 - 1140+00	15	11	9	2
1140+00 - 1140+50	19	14	17	-3
1140+50 - 1141+00	21	15	23	-7
1141+00 - 1141+50	22	16	31	-14
1141+50 - 1142+00	28	21	39	-18
1142+00 - 1142+50	42	31	56	-25
1142+50 - 1143+00	59	44	63	-19
1143+00 - 1143+50	79	59	39	21
1143+50 - 1144+00	103	77	34	43
1144+00 - 1144+50	119	89	55	34
1144+50 - 1145+00	121	91	64	27
1145+00 - 1145+50	119	89	68	21
1145+50 - 1146+00	121	91	67	24
1146+00 - 1146+50	134	101	96	5
1146+50 - 1147+00	148	111	85	25
1147+00 - 1147+50	117	87	47	40
1147+50 - 1148+00	66	50	40	9
1148+00 - 1148+50	61	46	34	12
1148+50 - 1149+00	64	48	42	6
1149+00 - 1149+50	41	30	48	-18
1149+50 - 1150+00	20	15	42	-26
1150+00 - 1150+50	20	15	44	-29
1150+50 - 1150+88.2	24	18	52	-35
1150+88.2 - 1151+00	6	4	15	-10
1151+00 - 1151+50	5	4	34	-30
1151+50 - 1152+00	0	0	14	-14
Walnut Grove Drive				
9+99 - 10+00	3	2	1	2
10+00 - 10+50	178	133	64	69
10+50 - 11+00	57	43	74	-31
11+00 - 11+20	18	13	27	-14
11+20 - 11+50	24	18	41	-23
11+50 - 11+70	17	12	44	-32
11+70 - 12+00	24	18	68	-50
12+00 - 12+40	35	26	54	-28
12+40 - 12+50	10	7	9	-2
12+50 - 12+85	34	26	24	2
12+85 - 13+00	13	10	7	3
13+00 - 13+34	50	37	10	27
13+34 - 13+50	35	26	1	25
13+50 - 13+56.1	13	10	0	10
13+56.1 - 14+00	96	72	1	71
14+00 - 14+36	95	71	1	71
14+36 - 14+50	36	27	0	27
14+50 - 15+00	52	39	0	39
TOTAL	2366	1774	1585	189

HORIZONTAL AND VERTICAL CONTROL

STA 146+78.40
(EXISTING IL RTE 76 C)=
STA 10+00
(EXISTING WALNUT GROVE DR)



Chain WALNUTG contains:
38 36

Beginning chain WALNUTG description

Point 38 N 2,059,794.4541 E 2,653,632.4575 Sta 10+00.0000

Course from 38 to 36 88° 28' 07.8289" Dist 883.3033'

Point 36 N 2,059,818.0565 E 2,654,515.4455 Sta 18+83.3033

Ending chain WALNUTG description

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
76	200	200	201	202	203
76	210	210	211	212	213
76	220	220	221	222	223

Chain 76 contains:
20 CUR 200 CUR 210 CUR 220 35

Beginning chain 76 description

Point 20 N 2,047,517.2920 E 2,652,405.2200 Sta 14+30.0281

Course from 20 to PC 200 350° 30' 20.4906" Dist 5,394.4209'

Curve Data

Curve 200
P.I. Station 73+10.9381 N 2,053,317.6452 E 2,651,435.1661
Delta = 6° 53' 49.8501" (RT)
Degree = 0° 42' 35.0292"
Tangent = 486.4891'
Length = 971.8030'
Radius = 8,072.8944'
External = 14.6451'
Long Chord = 971.2163'
Mid. Ord. = 14.6186'
P.C. Station 68+24.4490 N 2,052,837.8200 E 2,651,515.4123
P.T. Station 77+96.2520 N 2,053,803.6346 E 2,651,413.1219
C.C. N 2,054,169.4410 E 2,659,477.7241

Course from PT 200 to PC 210 357° 24' 10.3406" Dist 1,531.4823'

Curve Data

Curve 210
P.I. Station 99+25.2061 N 2,055,930.4021 E 2,651,316.6528
Delta = 51° 58' 56.4009" (RT)
Degree = 4° 40' 31.3708"
Tangent = 597.4719'
Length = 1,111.8310'
Radius = 1,225.4784'
External = 137.8887'
Long Chord = 1,074.0891'
Mid. Ord. = 123.9429'
P.C. Station 93+27.7343 N 2,055,333.5439 E 2,651,343.7259
P.T. Station 104+39.5653 N 2,056,319.3385 E 2,651,770.1956
C.C. N 2,055,389.0739 E 2,652,567.9455

Course from PT 210 to PC 220 49° 23' 06.7415" Dist 1,680.0301'

Curve Data

Curve 220
P.I. Station 129+26.5282 N 2,057,938.2773 E 2,653,658.0572
Delta = 50° 10' 31.2850" (LT)
Degree = 3° 19' 27.2184"
Tangent = 806.9328'
Length = 1,509.3840'
Radius = 1,723.5819'
External = 179.5406'
Long Chord = 1,461.6135'
Mid. Ord. = 162.6027'
P.C. Station 121+19.5954 N 2,057,412.9881 E 2,653,045.5119
P.T. Station 136+28.9794 N 2,058,745.1334 E 2,653,646.9294
C.C. N 2,058,721.3647 E 2,651,923.5114

Course from PT 220 to 35 359° 12' 35.4565" Dist 5,543.9532'

Point 35 N 2,064,288.5594 E 2,653,570.4766 Sta 191+72.9326

Ending chain 76 description

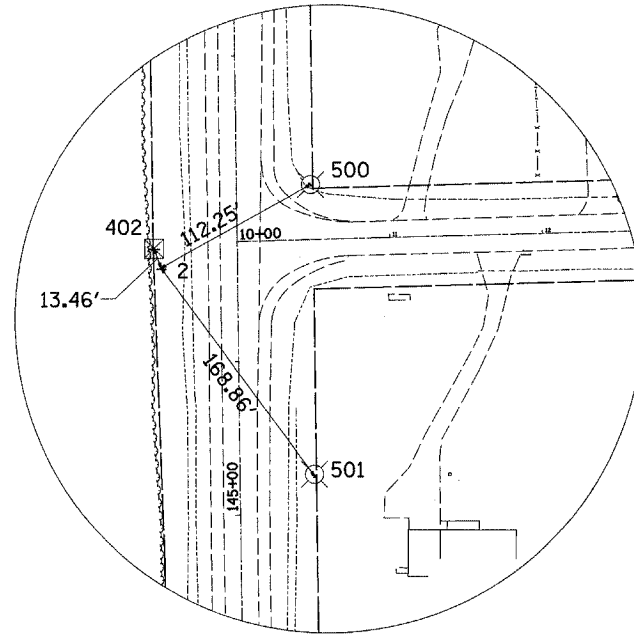
HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL POINTS

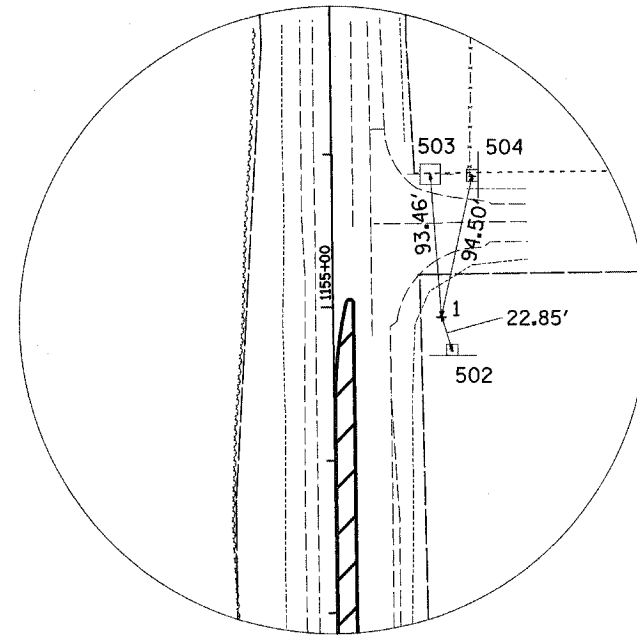
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2060609.7290	2653691.9980	848.5560	76	154+92.7762	70.7777' RT	GPS CONTROL POINT, PIN
2	2059777.1050	2653582.9720	852.0030	76	146+61.7349	49.7201' LT	GPS CONTROL POINT, PIN

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
101	2059787.0520	2653821.5710	840.6310	76	146+68.3906	188.9934' RT	TOPO SURVEY POINT, NAIL
101	2059787.0520	2653821.5710	840.6310	WALNUTG	11+88.8481	12.4527' RT	TOPO SURVEY POINT, NAIL



HORIZONTAL CONTROL
POINT No. 2



HORIZONTAL CONTROL
POINT No. 1

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	2060728.3840	2653971.5690	843.9710	76	156+07.5646	351.9584' RT	FOUNDATION, CHISELED SQUARE
402	2059789.7580	2653578.1420	854.0820	76	146+74.4533	54.3751' LT	R.O.W. MARKER, TOP
403	2058594.2320	2653592.9490	843.3680	76	134+74.2069	49.3105' LT	R.O.W. MARKER, TOP
450	2059802.3900	2654627.5900	820.7110	76	146+72.6119	995.1473' RT	HEADWALL, CHISELED SQUARE
455	2050417.1380	2651869.6000	779.5220	76	43+78.5023	49.9546' LT	R.O.W. MARKER, TOP

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION	CHAIN	STATION	OFFSET
500	76	147+15.2551	48.6023' RT	LIGHT POLE, SHINER	WALNUTG	10+49.0749	36.2235' LT
501	76	145+24.7601	48.7383' RT	LIGHT POLE, SHINER	WALNUTG	10+46.7473	154.2573' RT
502	76	154+71.0028	77.6911' RT	ELECTRICAL SPLICE BOX, SHINER	WALNUTG	10+87.9350	791.5318' LT
502	76	154+71.0028	77.6911' RT	SIGN, SHINER	WALNUTG	10+87.9350	791.5318' LT
503	76	155+86.0460	64.7663' RT	POWER POLE, SHINER	WALNUTG	10+76.4992	906.7325' LT
504	76	155+84.8079	92.2489' RT	WARNING SIGN	WALNUTG	11+03.9634	905.1391' LT

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2060707.6400	2653957.0240	844.6610	76	155+87.0231	337.1287' RT	PROPERTY CORNER, PIN
701	2059776.8100	2654168.3090	829.8410	WALNUTG	15+35.1887	31.9561' RT	PROPERTY CORNER, PIN
702	2059779.5960	2654268.1980	825.7140	WALNUTG	16+35.1164	31.8402' RT	PROPERTY CORNER, PIN
703	2059782.3980	2654368.4080	825.8470	WALNUTG	17+35.3655	31.7168' RT	PROPERTY CORNER, PIN
704	2059773.7220	2654056.2920	833.1970	WALNUTG	14+23.1291	32.0498' RT	PROPERTY CORNER, PIN
705	2064323.9240	2653514.8930	858.0370	WALNUTG	10+03.5075	4530.994' LT	PROPERTY CORNER, PIN
707	2059082.4080	2653692.7830	845.6860	76	139+65.5896	50.5004' RT	PROPERTY CORNER, PIN
708	2059382.5890	2653688.9330	844.7260	76	142+65.7952	50.7903' RT	PROPERTY CORNER, PIN
709	2059382.4380	2653688.9450	844.6850	76	142+65.6440	50.8003' RT	PROPERTY CORNER, PIN

JAMES SLATER

DAVID HINTZSCHE

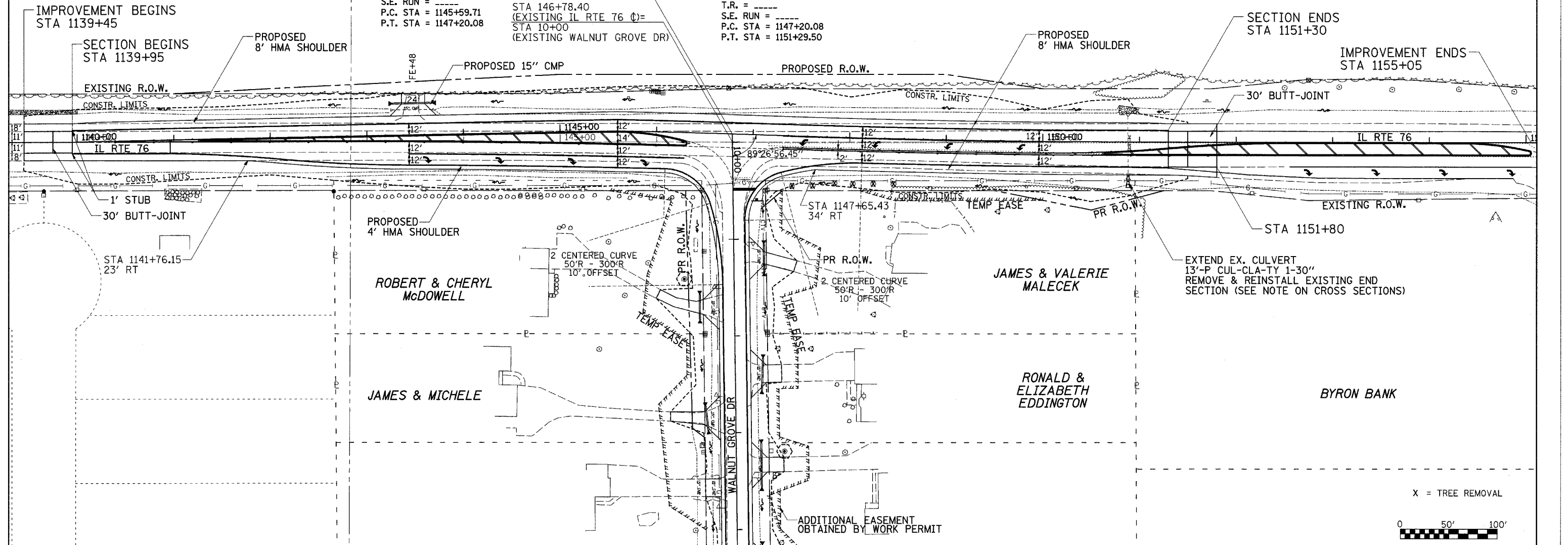
PROP. CURVE 70230
 PI STA. = 1146+39.90
 $\Delta = 0^\circ 45' 53''$ (RT)
 $D = 0^\circ 28' 37''$
 $R = 12,014.00'$
 $T = 80.18'$
 $L = 160.36'$
 $E = 0.27'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA = 1145+59.71$
 $P.T. STA = 1147+20.08$

STA 1146+78.45
 (PROPOSED IL RTE 76 @)=
 STA 9+91.66
 (PROPOSED WALNUT GROVE DR)
 STA 146+78.40
 (EXISTING IL RTE 76 @)=
 STA 10+00
 (EXISTING WALNUT GROVE DR)

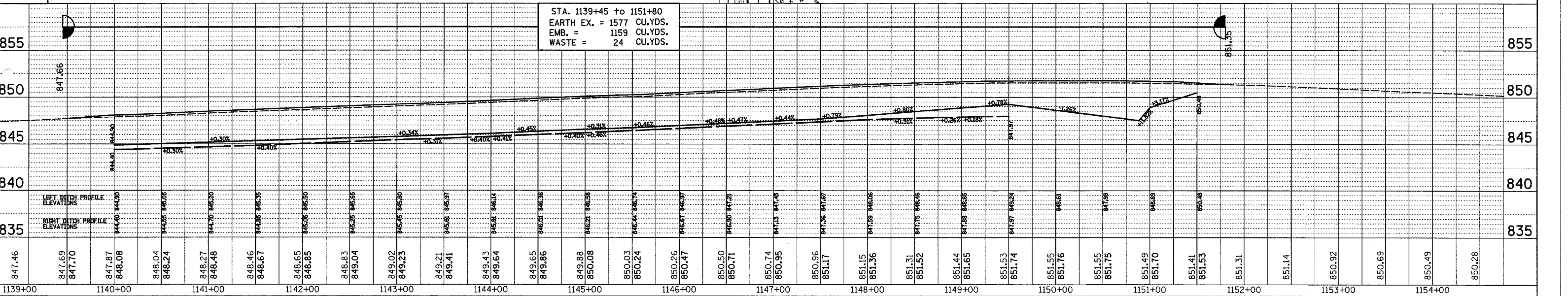
PROP. CURVE 70240
 PI STA. = 1149+24.81
 $\Delta = 1^\circ 57' 26''$ (LT)
 $D = 0^\circ 28' 41''$
 $R = 11,986.00'$
 $T = 204.73'$
 $L = 409.42'$
 $E = 1.75'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA = 1147+20.08$
 $P.T. STA = 1151+29.50$



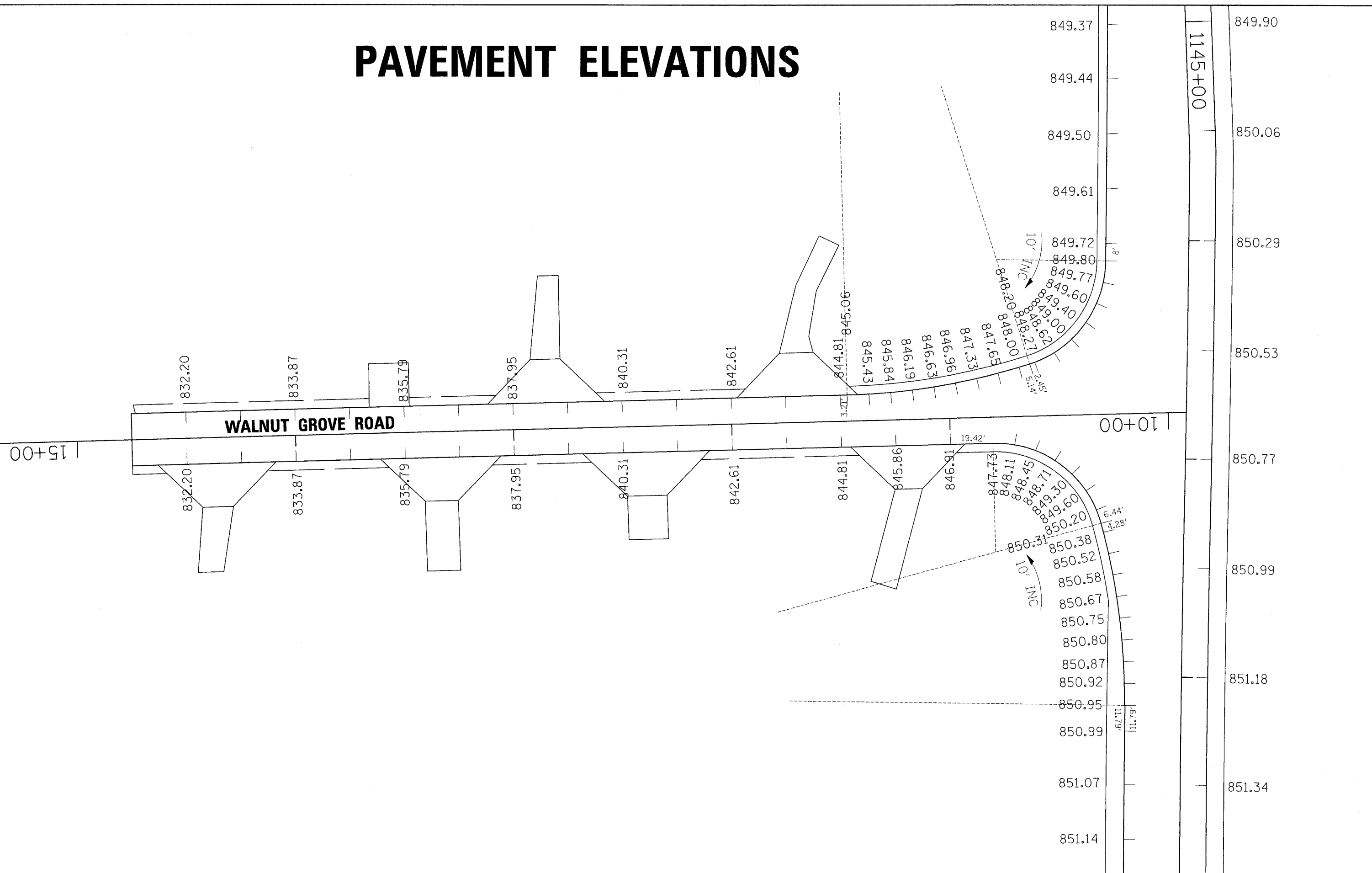
DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY



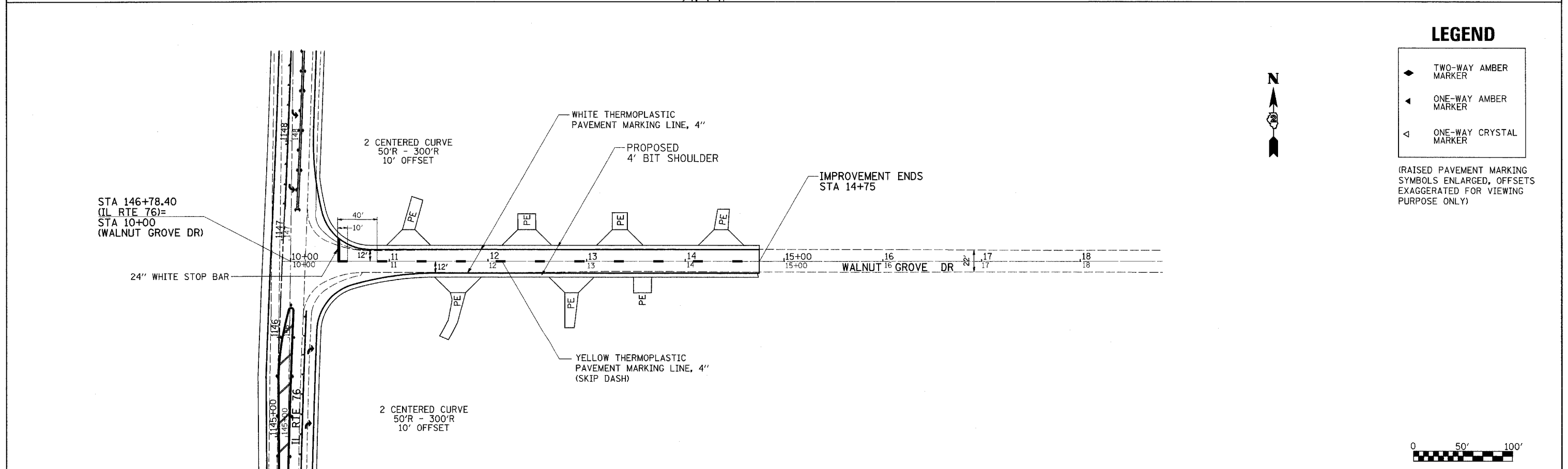
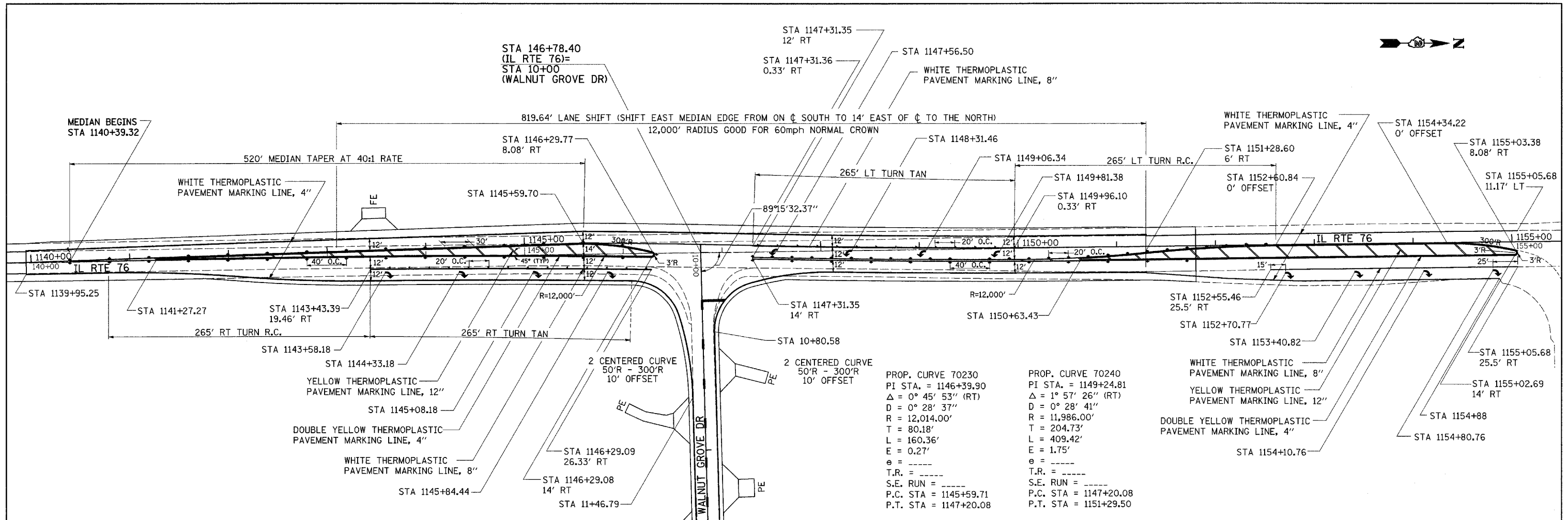
STA. 1139+45 to 1151+80
 EARTH EX. = 1577 CU.YDS.
 EMB. = 1159 CU.YDS.
 WASTE = 24 CU.YDS.



PAVEMENT ELEVATIONS



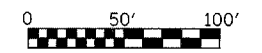
FILE NAME = c:\p\projac\p209604\d09604e1.dgn	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT ELEVATIONS - WALNUT GROVE ROAD			F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 18
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	SCALE:					SHEET NO.	OF	SHEETS	STA.	TO STA.
PLOT DATE = Tue Mar 11 07:45:39 2008	DATE -	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



LEGEND

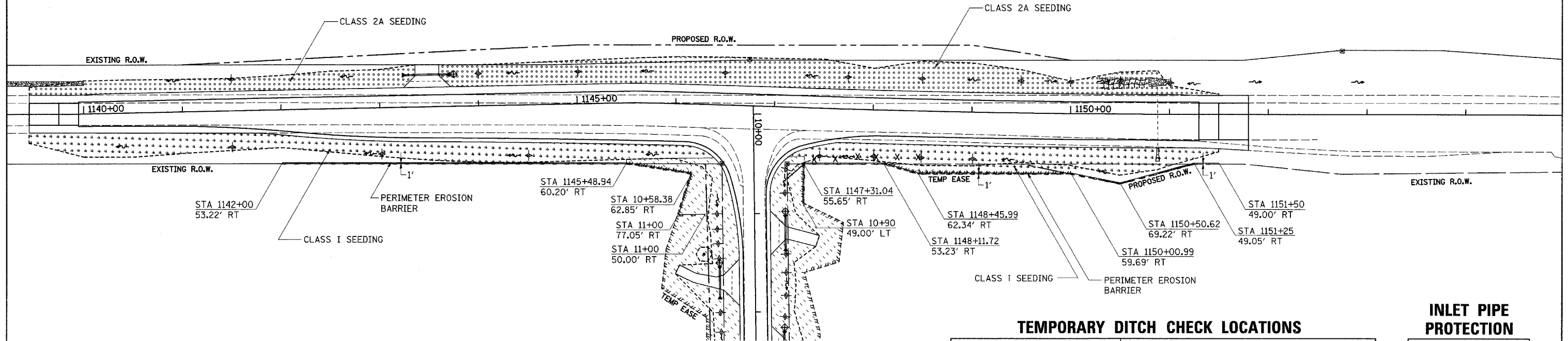
- ◆ TWO-WAY AMBER MARKER
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER

(RAISED PAVEMENT MARKING SYMBOLS ENLARGED, OFFSETS EXAGGERATED FOR VIEWING PURPOSE ONLY)



FILE NAME = c:\projects\p289624\d09684pm.dgn	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING DETAILS			F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 20
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 64A45	
	PLOT DATE = Tue Mar 11 08:21:52 2008	CHECKED -	REVISED -								FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	
		DATE -	REVISED -									

EROSION CONTROL DETAILS



TEMPORARY DITCH CHECK LOCATIONS

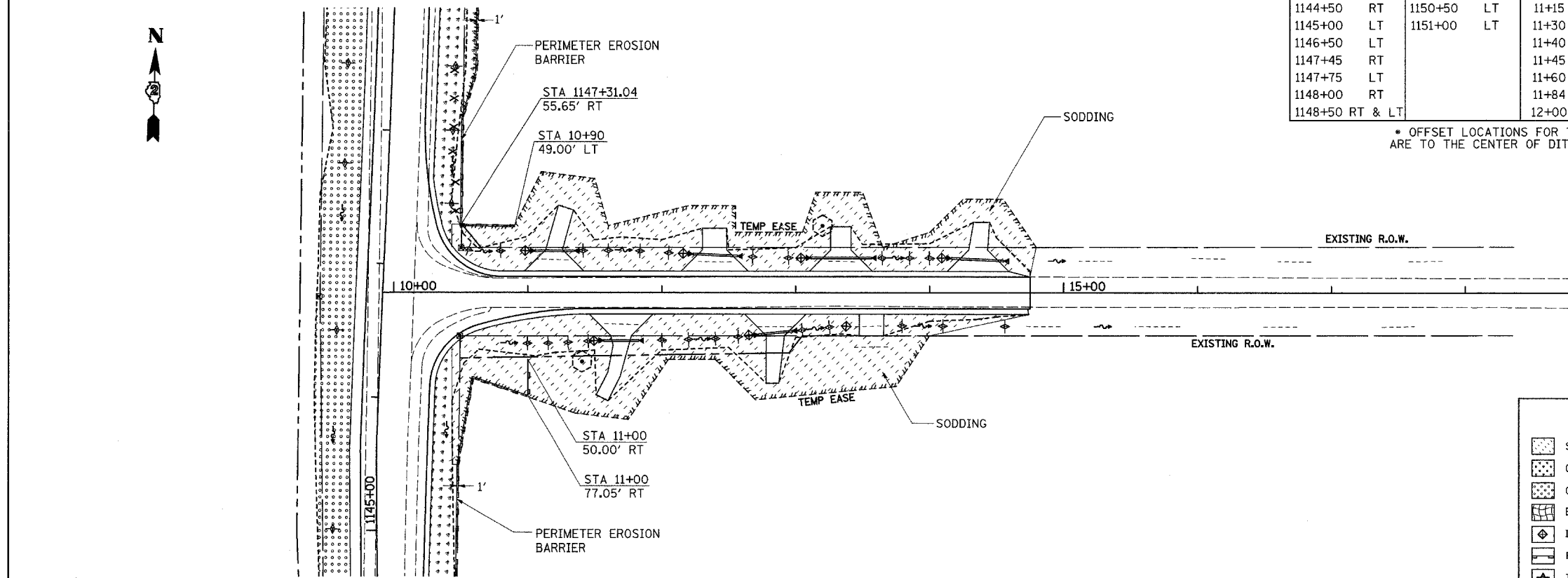
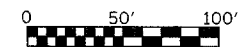
IL 76		WALNUT GROVE DR.							
STA.	*OFFSET	STA.	*OFFSET	STA.	*OFFSET	STA.	*OFFSET	STA.	*OFFSET
1141+50	RT & LT	1149+00	RT	10+55	LT	12+05	LT	13+80	RT
1143+00	RT	1149+50	LT	10+80	LT	12+20	RT	13+85	LT
1144+00	LT	1150+00	LT	11+00	RT	12+40	RT	14+00	LT
1144+50	RT	1150+50	LT	11+15	RT	12+58	RT	14+10	RT
1145+00	LT	1151+00	LT	11+30	RT	12+68	LT	14+56	RT
1146+50	LT			11+40	LT	12+82	LT		
1147+45	RT			11+45	RT	12+95	LT		
1147+75	LT			11+60	LT	13+05	RT		
1148+00	RT			11+84	LT	13+25	RT		
1148+50	RT & LT			12+00	RT	13+65	LT		

* OFFSET LOCATIONS FOR TEMPORARY DITCH CHECKS ARE TO THE CENTER OF DITCH. (SEE CROSS-SECTIONS)

INLET PIPE PROTECTION

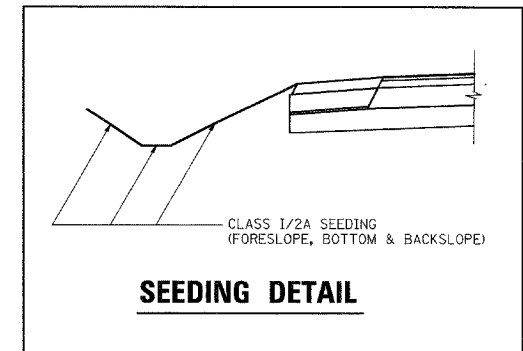
IL 76	
STA.	*OFFSET
1143+76	LT

WALNUT GROVE DR.	
STA.	*OFFSET
10+98	LT
11+49	RT
12+16	LT
12+65	RT
13+04	LT
13+39	RT
14+09	LT



LEGEND

- SODDING
- CLASS I SEEDING (SEE DETAIL)
- CLASS 2A SEEDING (SEE DETAIL)
- EROSION CONTROL BLANKET
- INLET PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK*



FILE NAME = c:\p\projects\p289604\d29604er.dgn

USER NAME = polzinej	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = Tue Mar 11 08:03:10 2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

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

F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 21
CONTRACT NO. 64A45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF WIDENING IL 76 TO ADD TURN LANES, INCREASING THE INTERSECTION RETURNS AND RAISING THE PROFILE ON WALNUT GROVE DRIVE.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.35 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 0.39 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.96 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

NONE

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

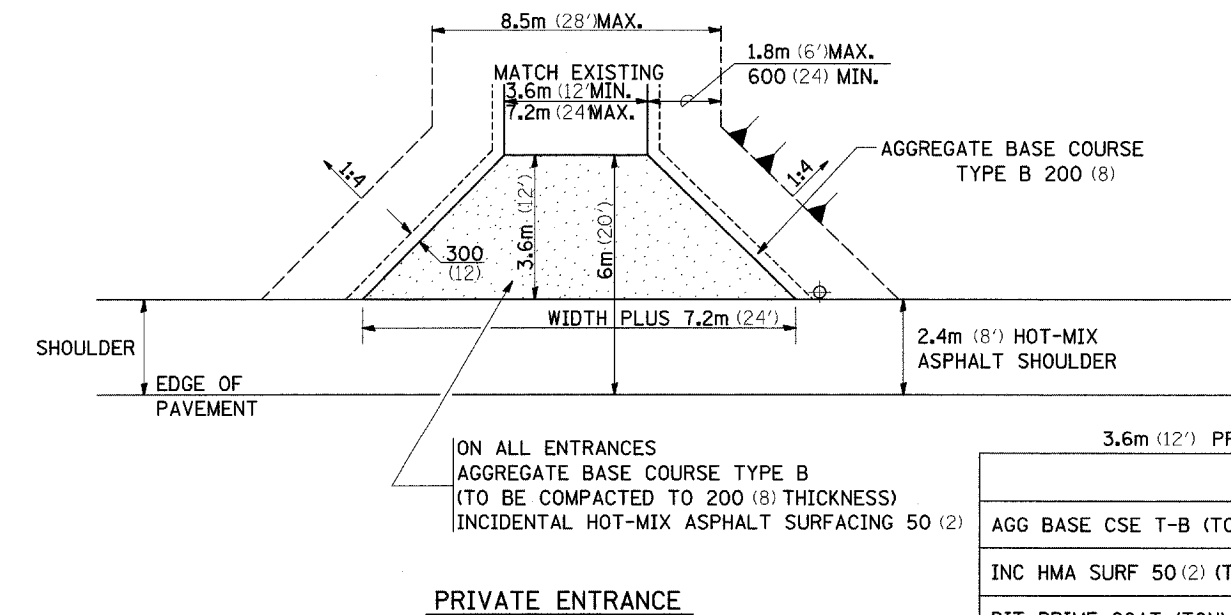
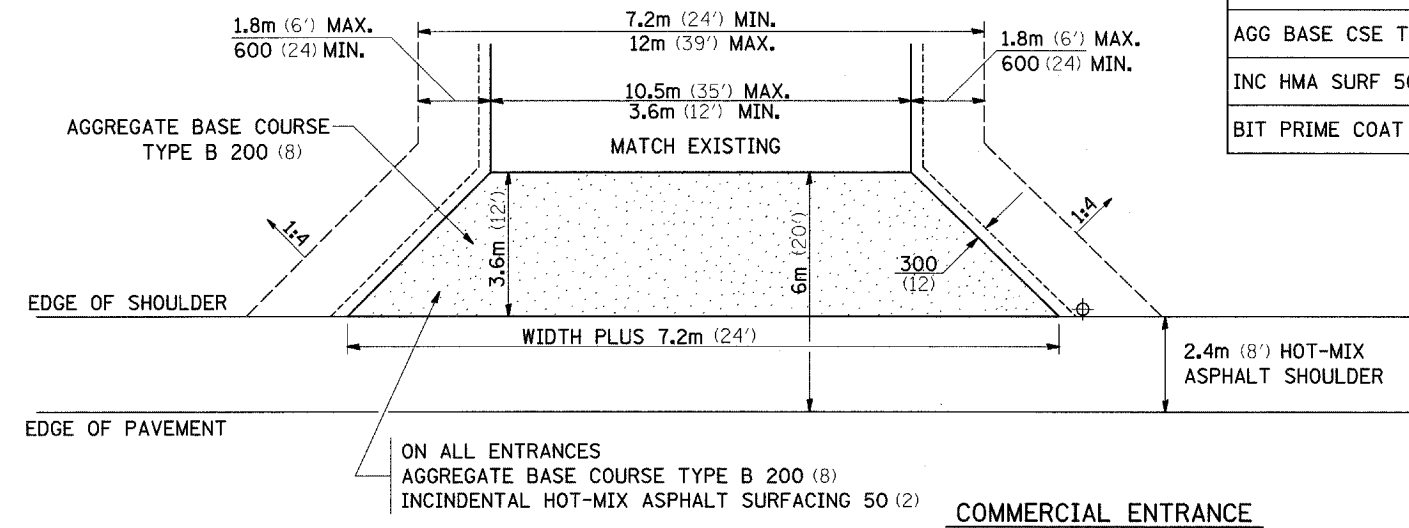
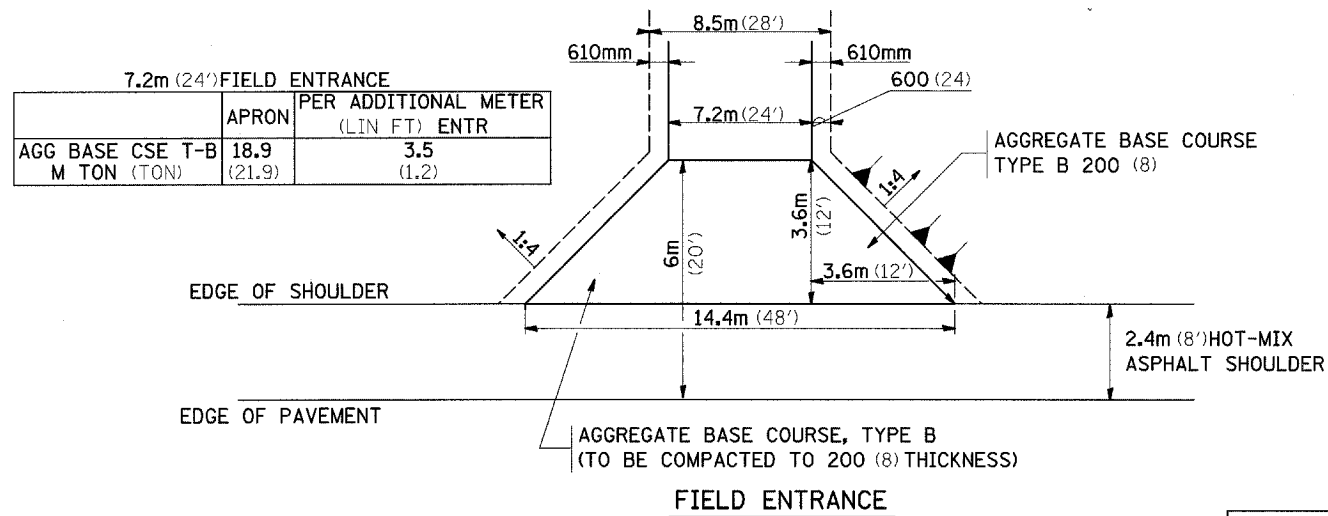
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

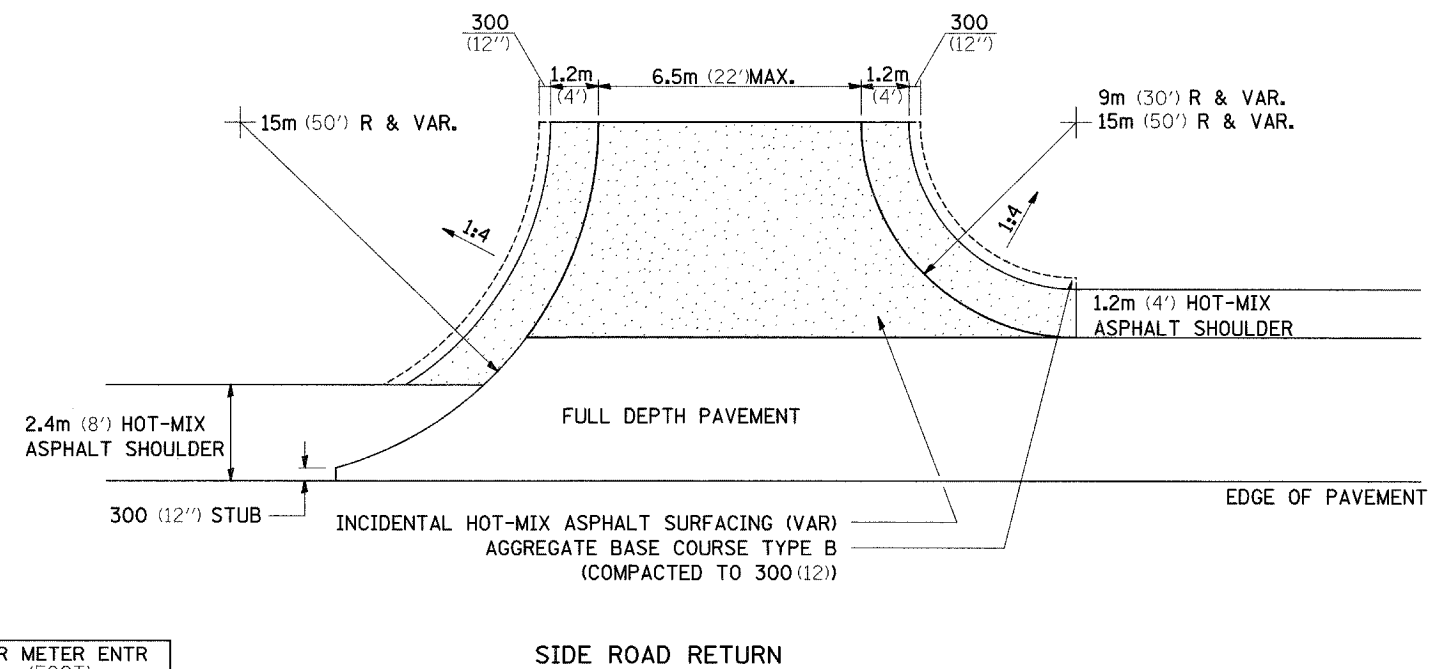
FILE NAME = c:\projects\p289604\d09604spl.dgn	USER NAME = polzinej	DESIGNED -	REVISED - 5-12-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			754	101M	BOONE	48	23	
	PLOT DATE = Tue Mar 11 08:04:35 2008	CHECKED -	REVISED -			CONTRACT NO. 64A45					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS



NOTE

- ① ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ② FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- ③ QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
- ④ EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCLUDED TO THE AGGREGATE BASE COURSE.
- ⑤ ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



FILE NAME =	USER NAME = polzinej	DESIGNED -	REVISED - 1-15-08
ci:\projects\p209624\d09624apl.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M	BOONE	48	24
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64A45	

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

Bill of Materials

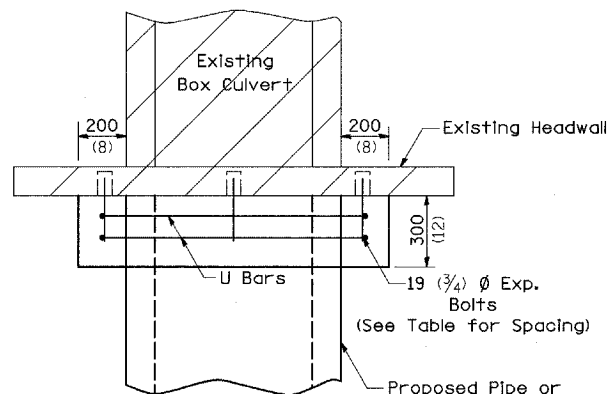
STATION	DIMENSIONS		h Bar	U Bar	EXPANSION BOLTS	CONCRETE COLLAR	REINF. BARS
	X	Y	No.	No. Length			
1150+88 RT	45	31	17	4 107	-	0.89	42
All h Bars 450 (18) Long				Total	-	0.89	42

General Notes

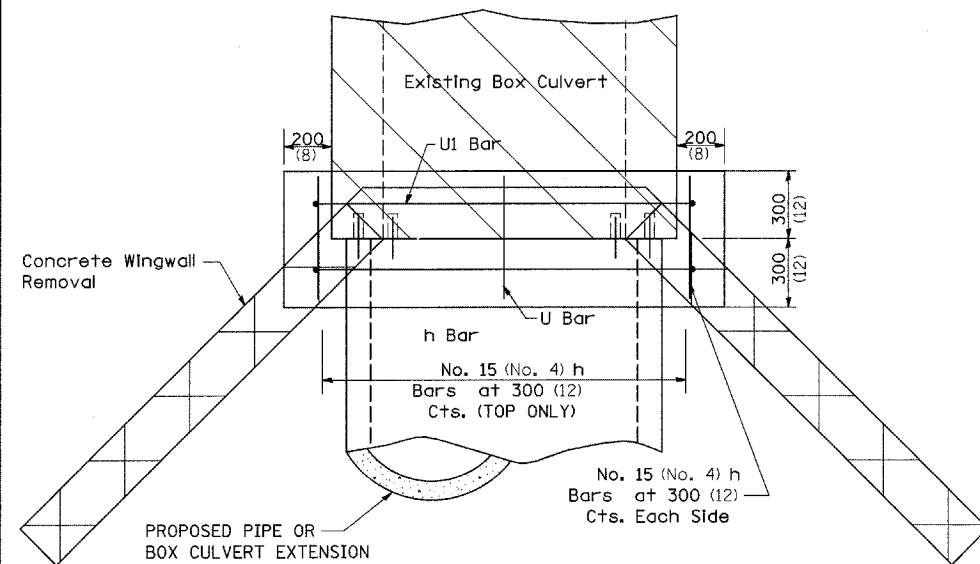
Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

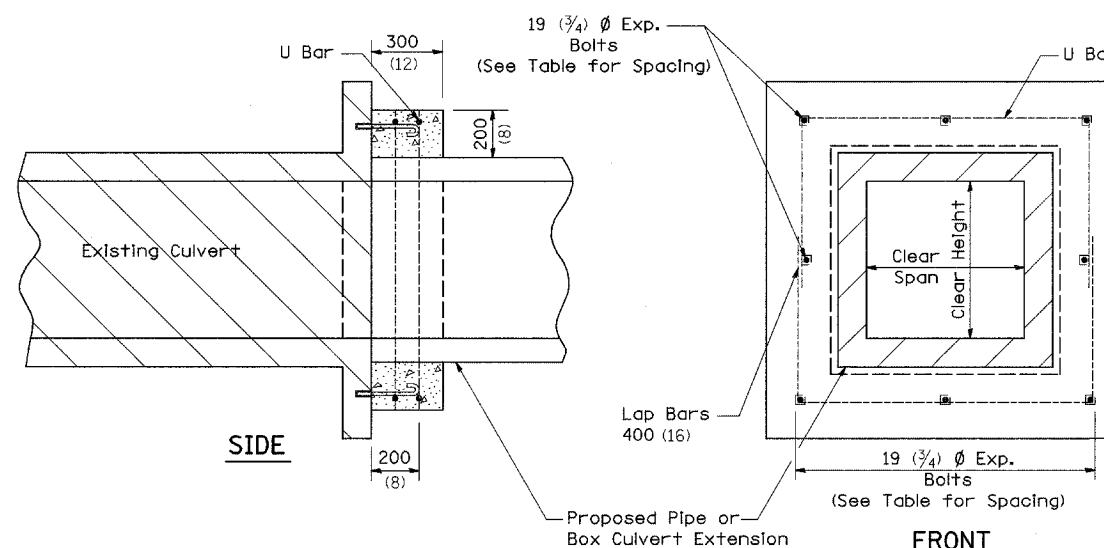
The concrete will be paid for at the contract unit price per cubic meter (cubic yard) for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per kilogram (pound) for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 200 (8) inches into the new concrete.



PLAN OF CULVERT WITH STRAIGHT HEADWALL

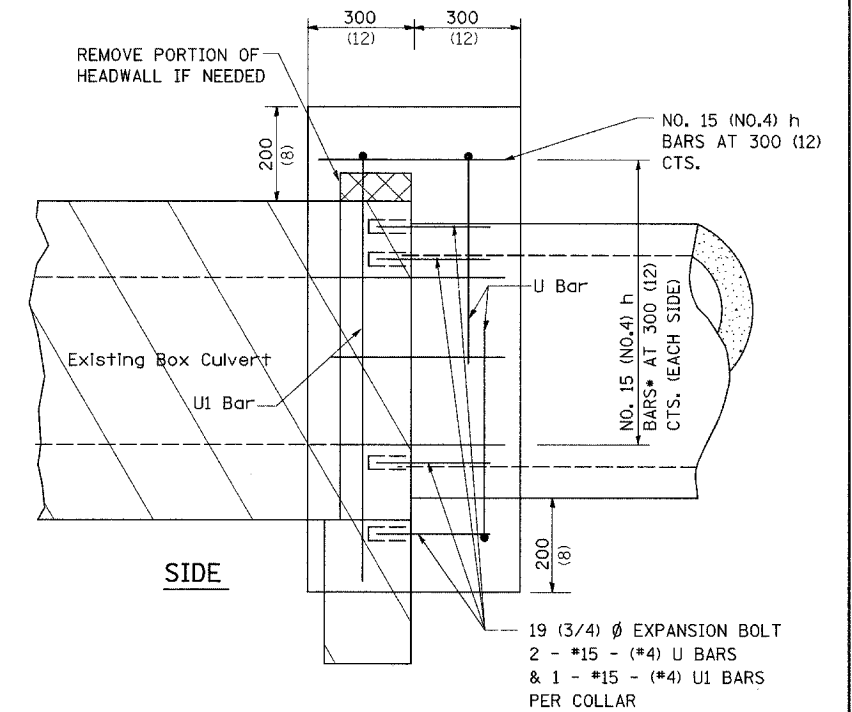


PLAN OF CULVERT WITH ANGLED WING WALLS



SIDE

FRONT



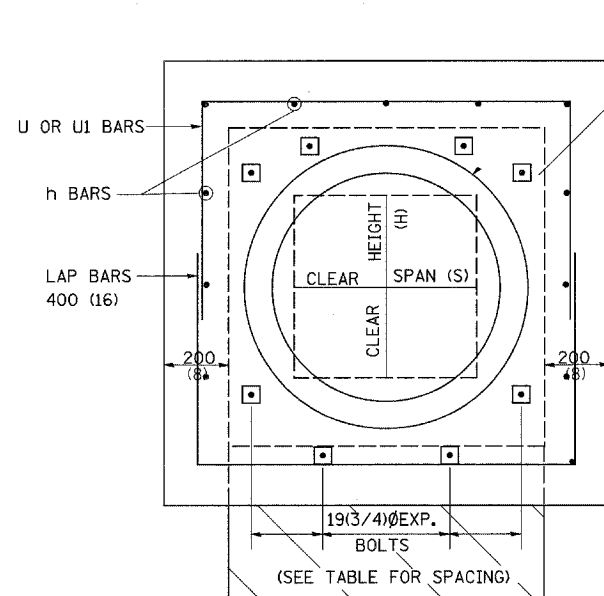
SIDE

19 (3/4) EXPANSION BOLT
2 - #15 - (#4) U BARS
& 1 - #15 - (#4) U BARS
PER COLLAR

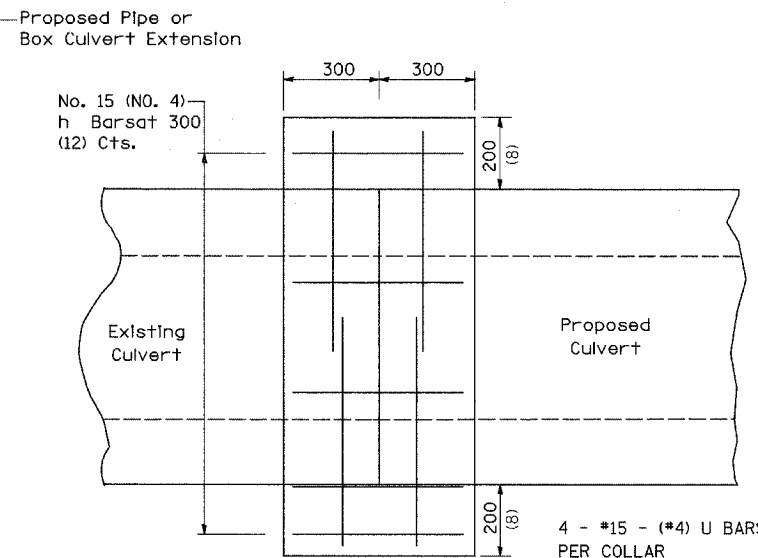
PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

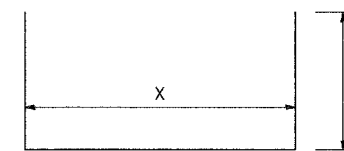
* MINIMUM ONE PER SIDE



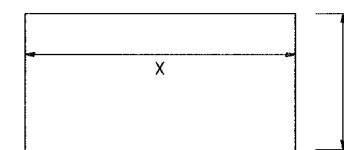
FRONT



CULVERT CONNECTION WITHOUT EXISTING HEADWALL



(#4) U BAR

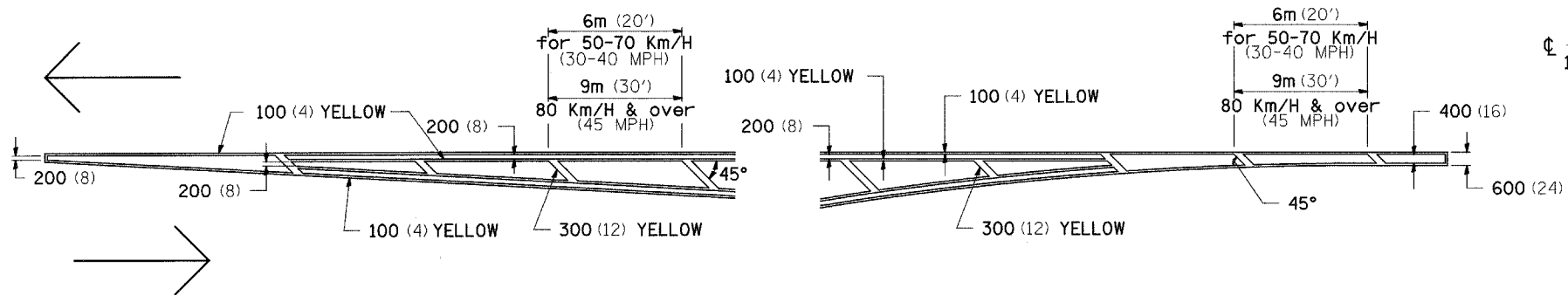


(#4) U1 BAR

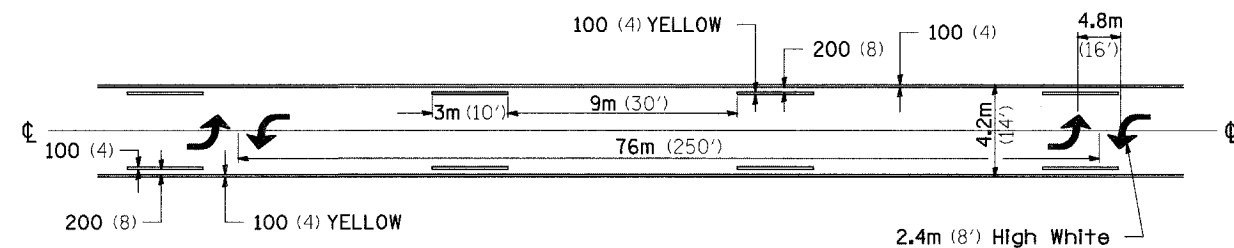
FILE NAME =	USER NAME = polznej	DESIGNED -	REVISED - 11-09-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\projects\p289604\d09604spl.dgn		DRAWN -	REVISED -			754	101M	BOONE	48	25	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64A45					
PLOT DATE = Tue Mar 11 08:24:35 2008		DATE -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

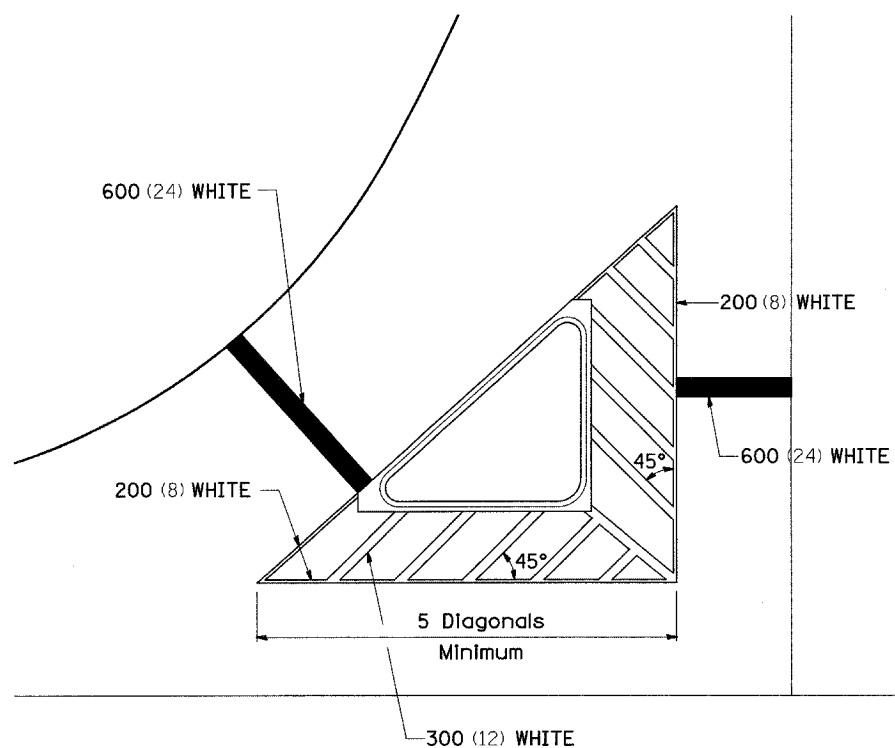


MEDIAN PAVEMENT MARKING

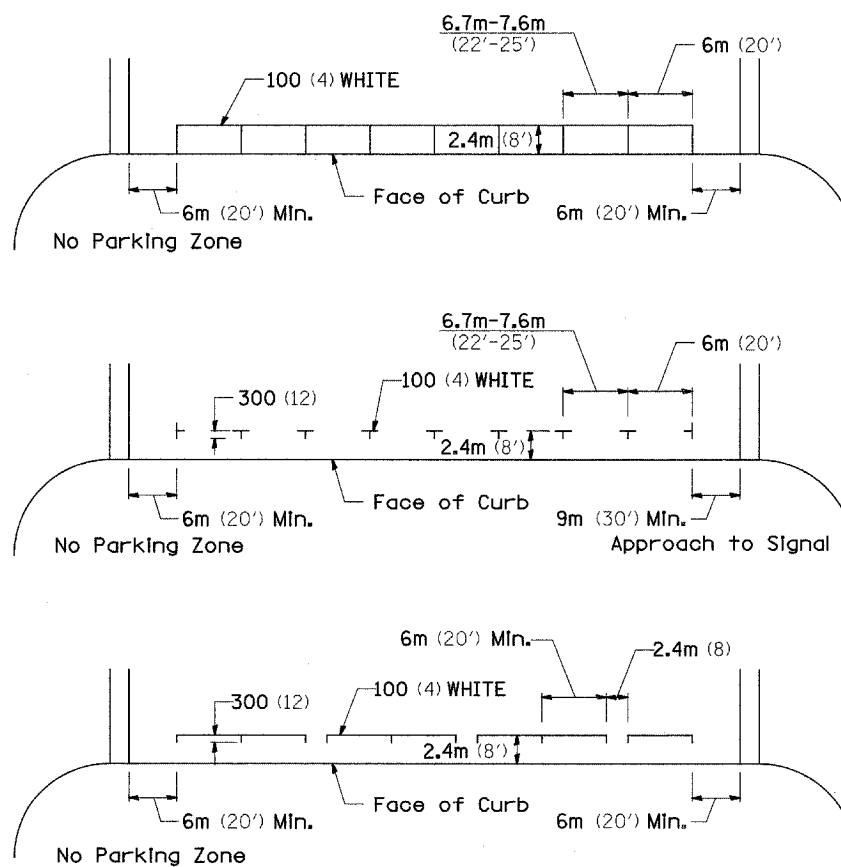


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

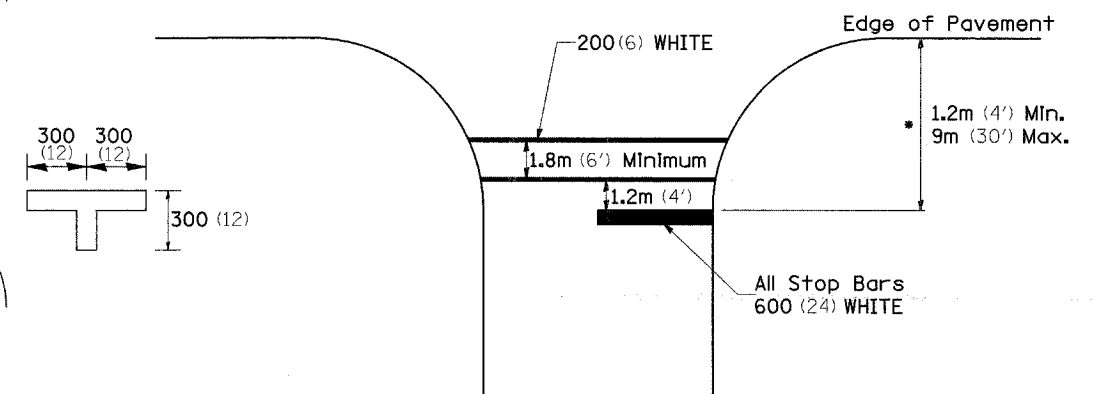


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

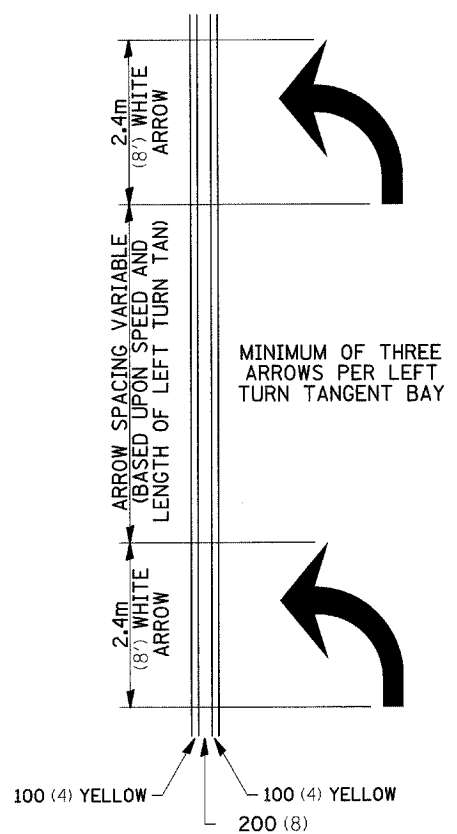


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = polzinej	DESIGNED -	REVISED - 1-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\projects\p209604\d09624spl.dgn		DRAWN -	REVISED -			754	101M	BOONE	48	26	
PLOT SCALE = 50.0000 / IN.		CHECKED -	REVISED -			CONTRACT NO. 64A45					
PLOT DATE = Tue Mar 11 08:04:36 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS

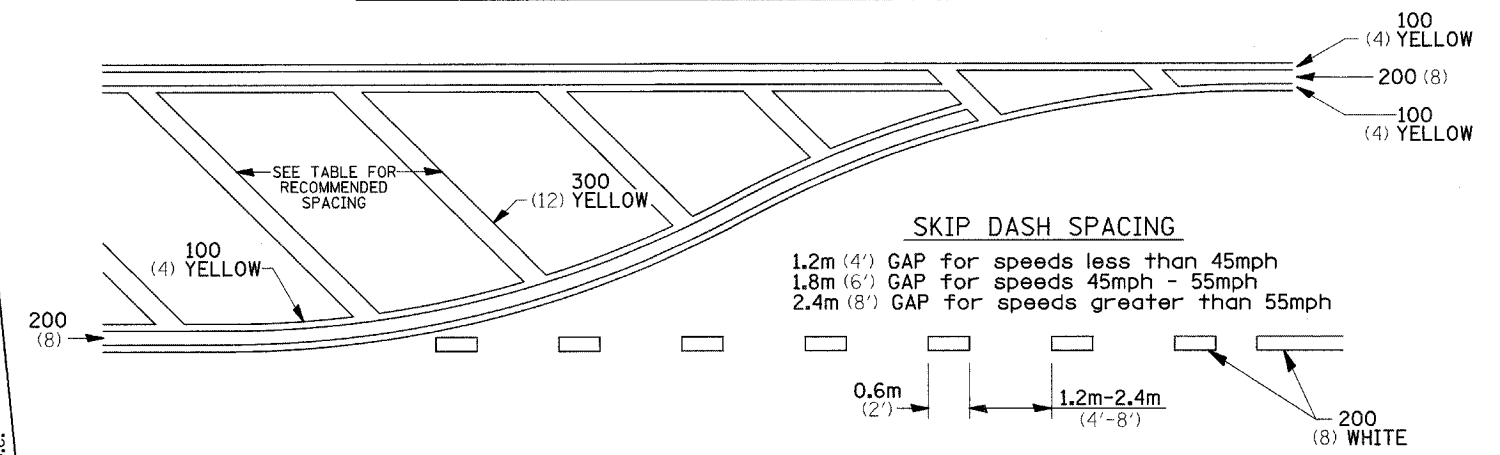
ARROW LAYOUT



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

- ◀ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

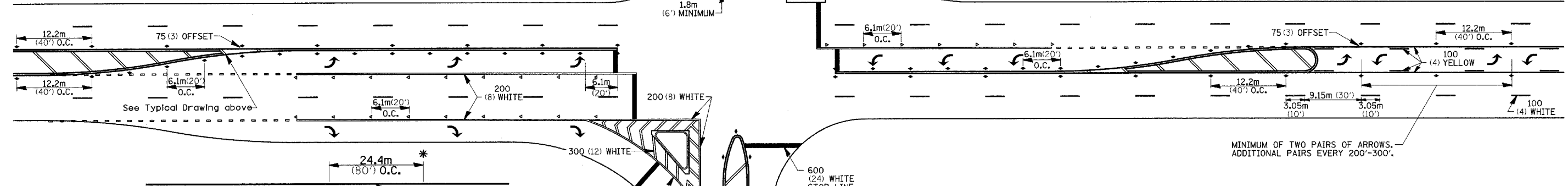
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



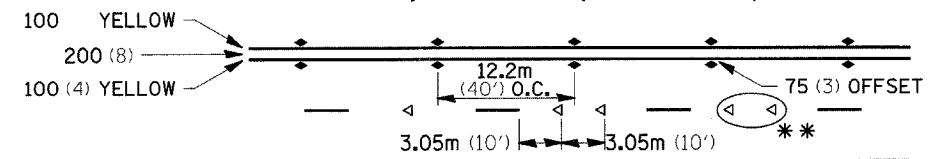
RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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



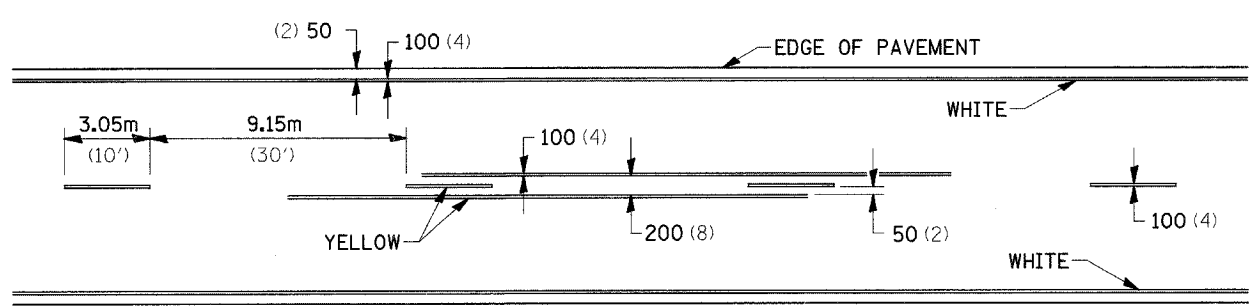
SYMBOLS



- * REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15km/H (10MPH) LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



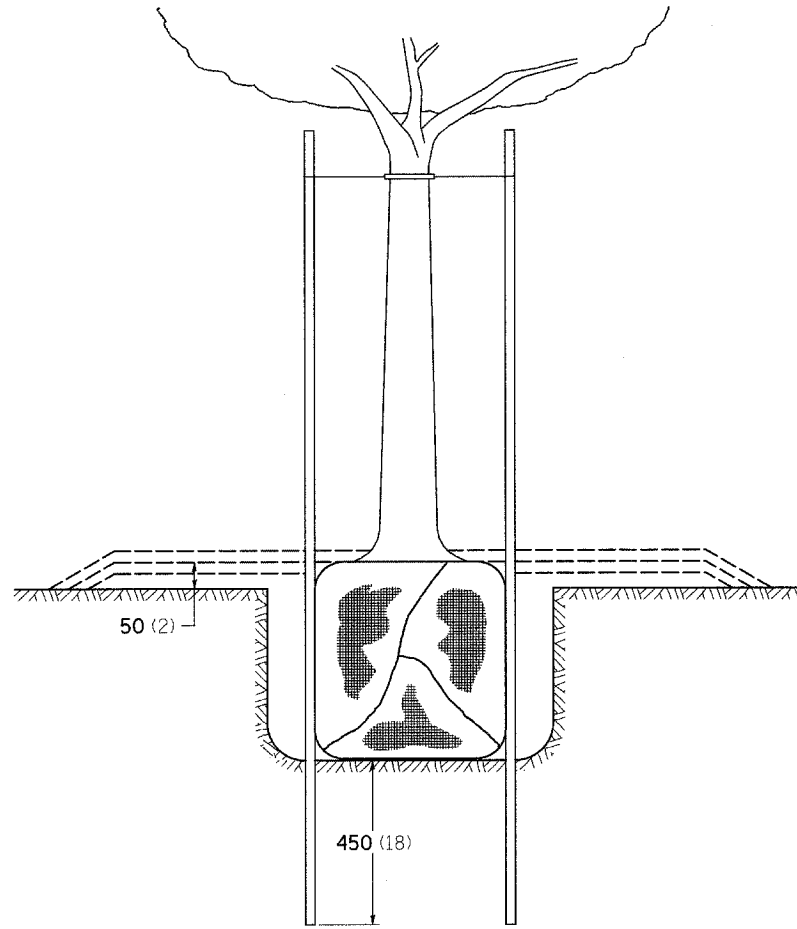
FILE NAME =	USER NAME = polznej	DESIGNED -	REVISED - 1-11-08
ca\projects\p289604\d9604spl.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 11 08:04:36 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

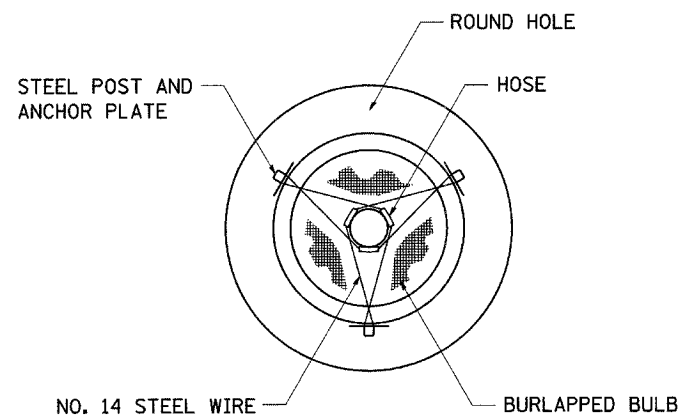
REGION 2 / DISTRICT 2 STANDARD			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M	BOONE	48	27
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64A45

DETAILS OF PLANTING AND BRACING TREES

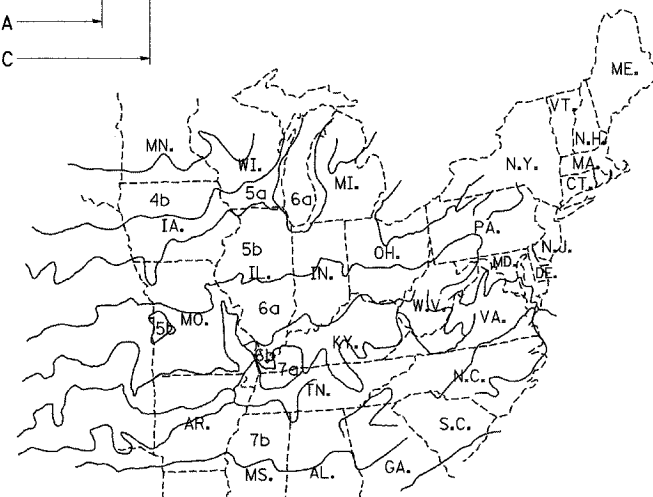
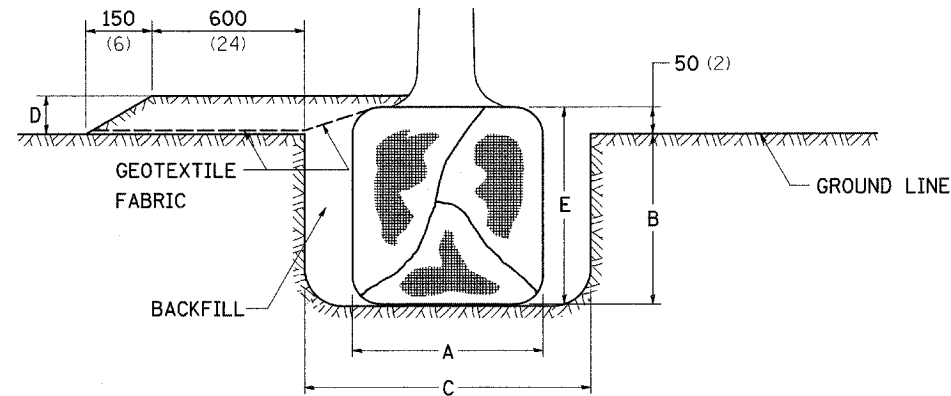


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



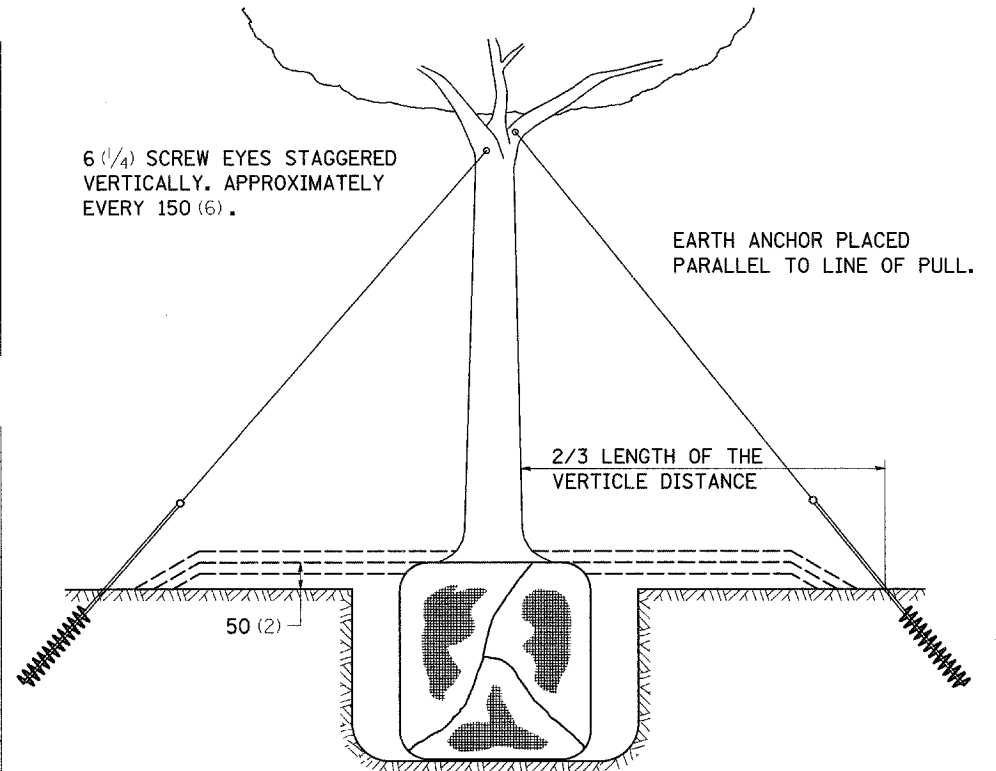
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

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

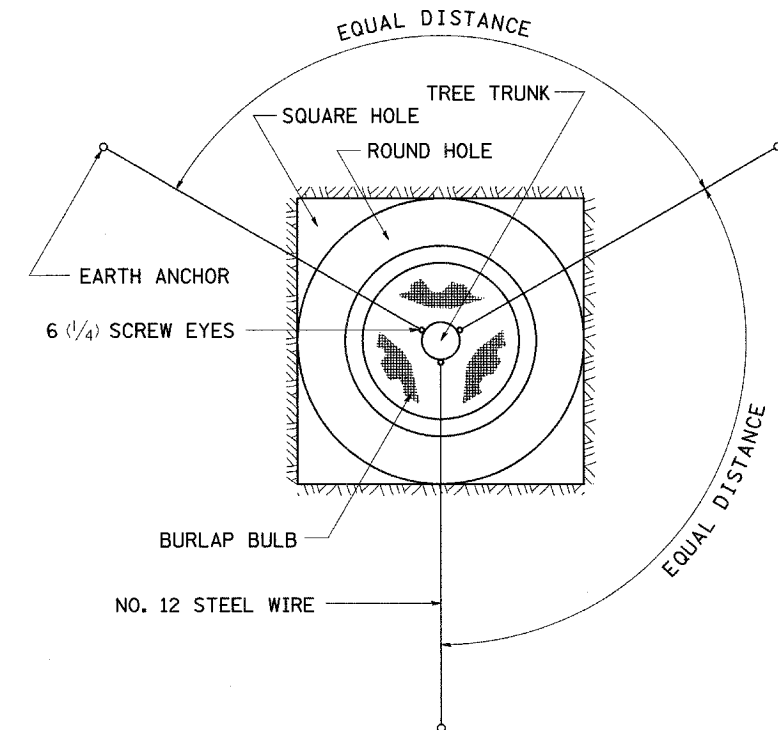


PLANT HARDINESS ZONE MAP

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



TREES OVER 115 (4 1/2) IN DIAMETER



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

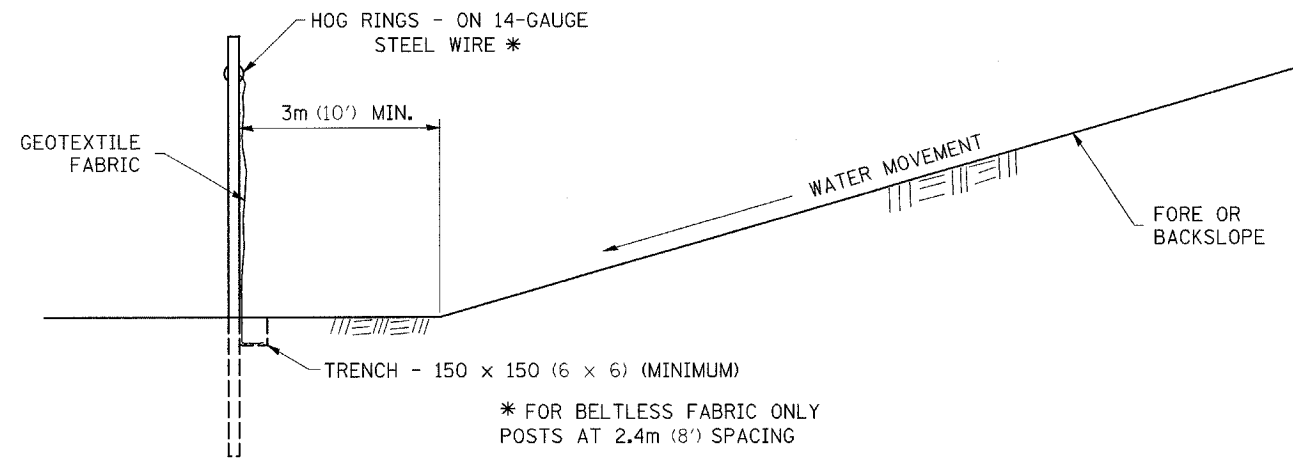
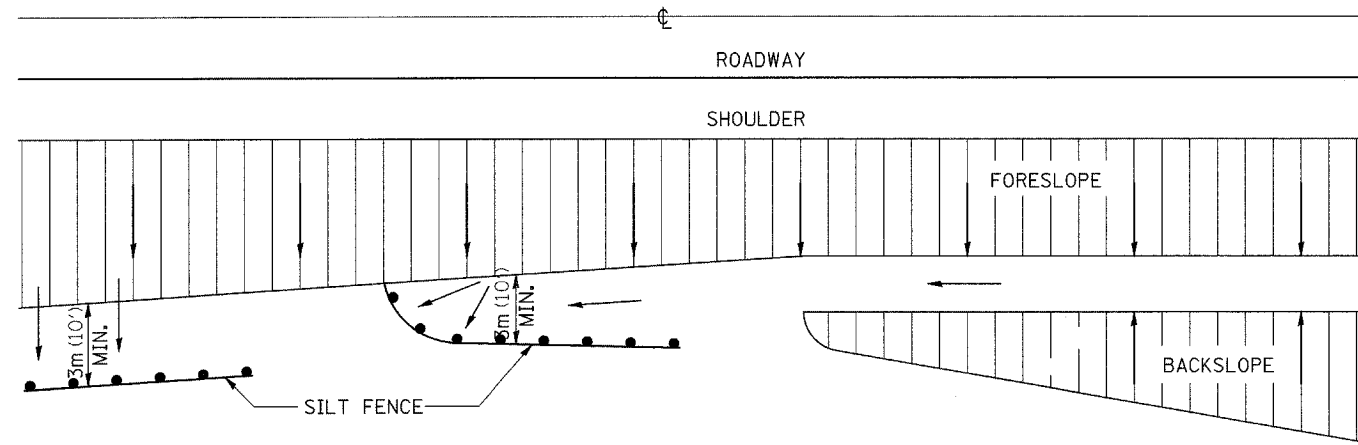
FILE NAME =	USER NAME = polzine.j	DESIGNED -	REVISED - 10-15-04
ca\projects\p209604\d09604sp1.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M	BOONE	48	28
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64A45	

EROSION CONTROL DETAILS FOR SILT FENCE

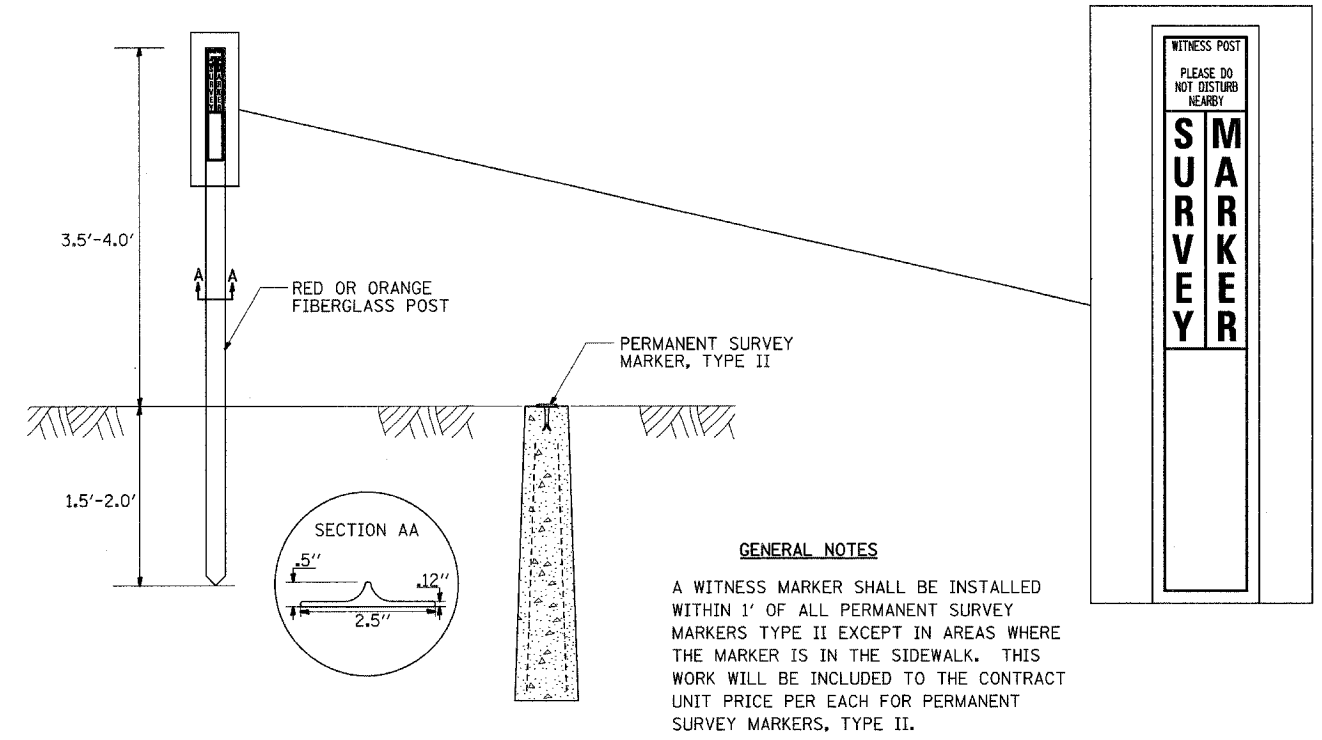


DETAILS OF SILT FENCE

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

REVISED - 10-22-01

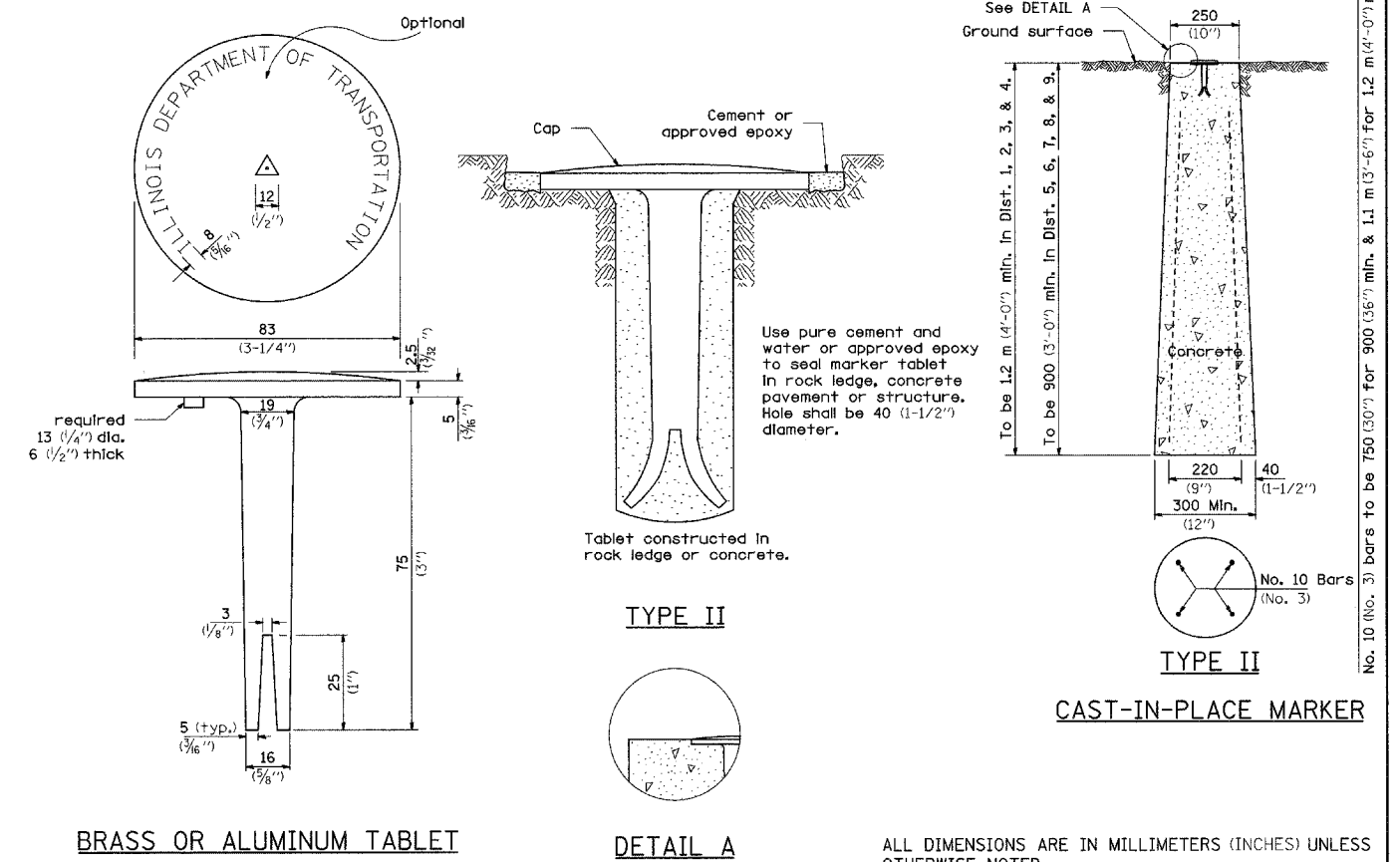
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

PERMANENT SURVEY MARKERS, TYPE II



BRASS OR ALUMINUM TABLET

DETAIL A

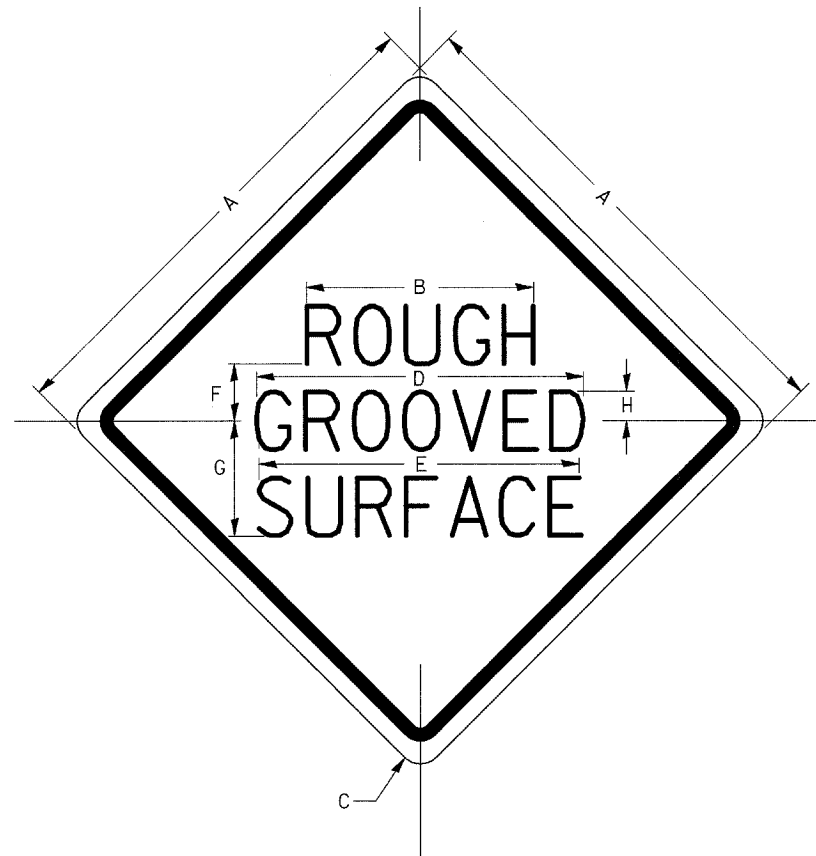
CAST-IN-PLACE MARKER

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

REVISED - 6-26-06	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					754	101M	BOONE	48	29
REVISED -					CONTRACT NO. 64A45				
REVISED -					SCALE: 50.0000 / IN SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ROUGH GROOVED SURFACE SIGN

ILLINOIS STANDARD W8-I107
SIGN PANEL TYPE 1



COLOR: LEGEND AND BORDER - BLACK NON-REFLECTIVE
BACKGROUND - ORANGE REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
1200x1200 (48x48)	1200 (48.0)	600 (24.1)	75 (3.0)	850 (34.0)	825 (33.0)	150 (6.0)	325 (13.0)	88 (3.5)

SIGN SIZE	SERIES LINES			MARGIN	BORDER	BLANK STD.
	1	2	3			
1200x1200 (48x48)	7C	7C	7C	20 (0.8)	30 (1.2)	B4-48D

ALL DIMENSIONS IN INCHES.

REVISED - 1-09-08

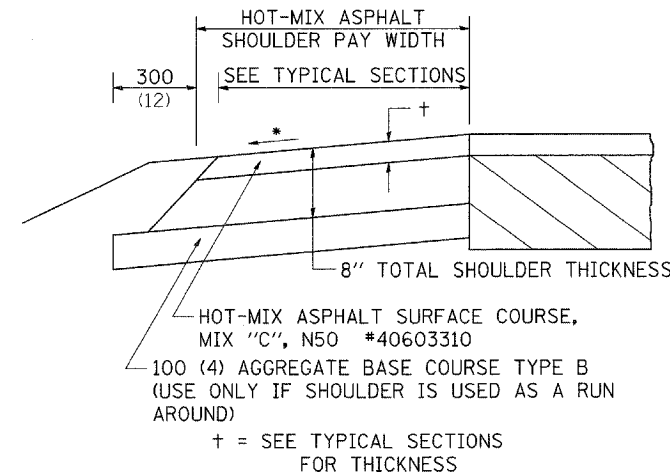
GENERAL NOTES

SIGN PANELS AND FACE MATERIALS SHALL BE ACCORDING TO SECTION 720 OF THE STANDARD SPECIFICATIONS
METAL POSTS SHALL BE IN ACCORDANCE WITH STD. 720011.

ALL MOUNTING HARDWARE SHALL BE ALUMINUM, STAINLESS STEEL, ZINC OR CADMIUM PLATED STEEL AND SHALL BE INCLUDED TO THE COST OF THE INSTALLATION.

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

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

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

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

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

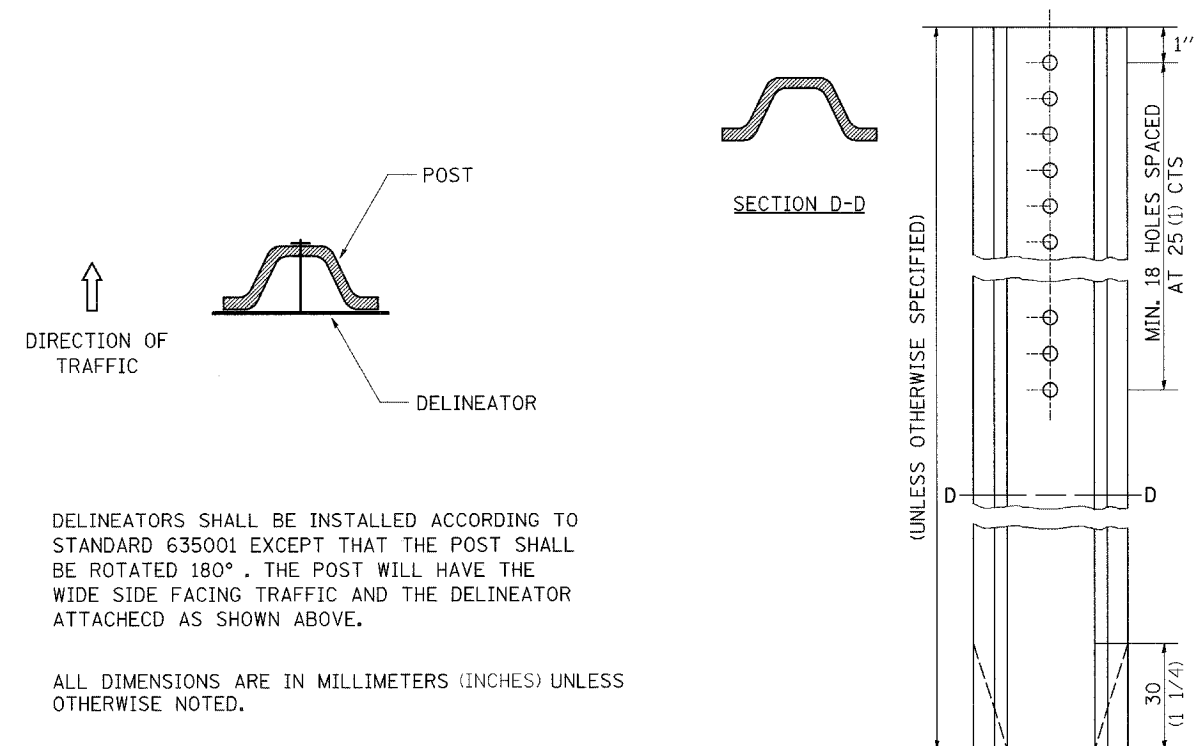
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

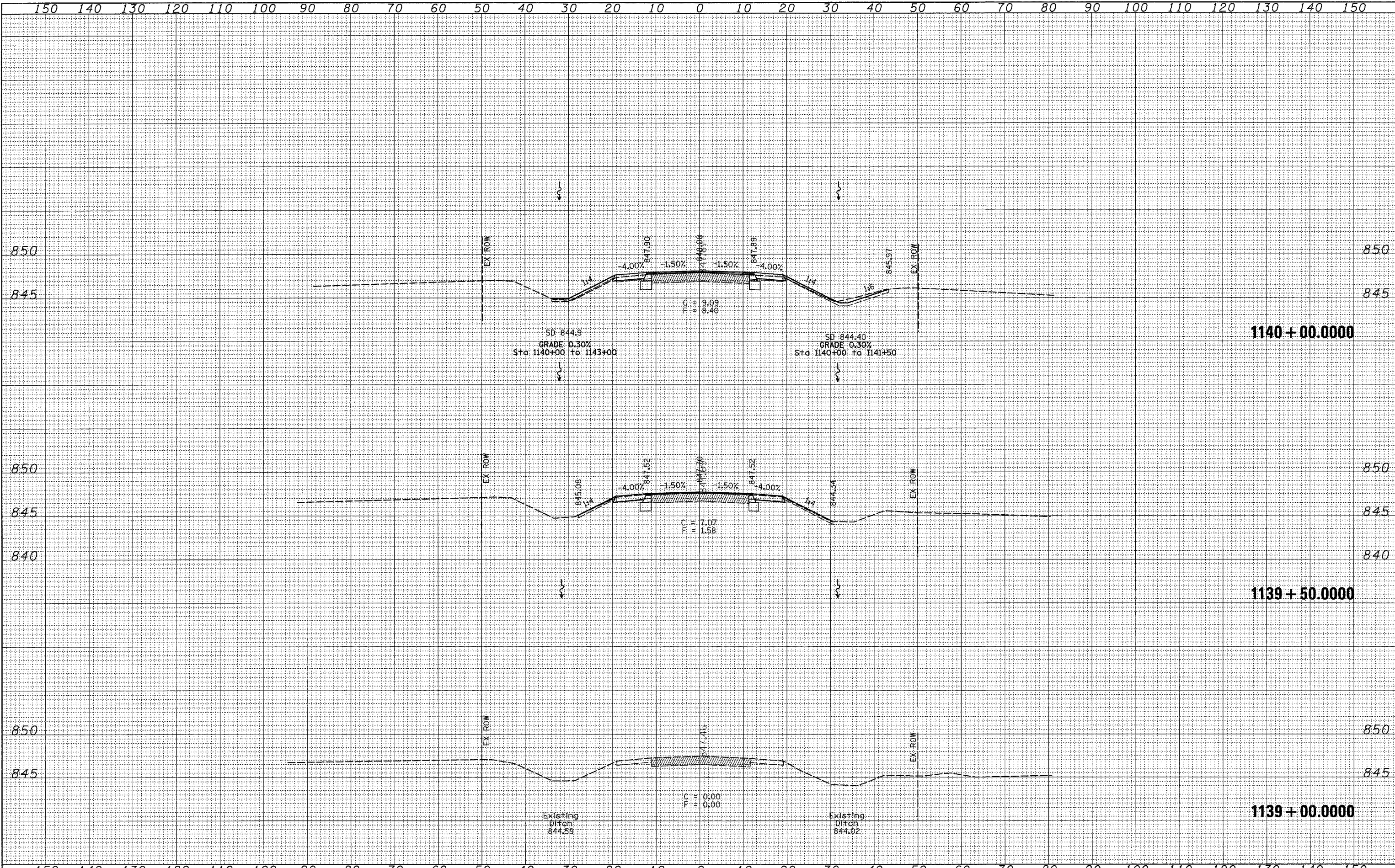
DELINEATOR AND POST ORIENTATION



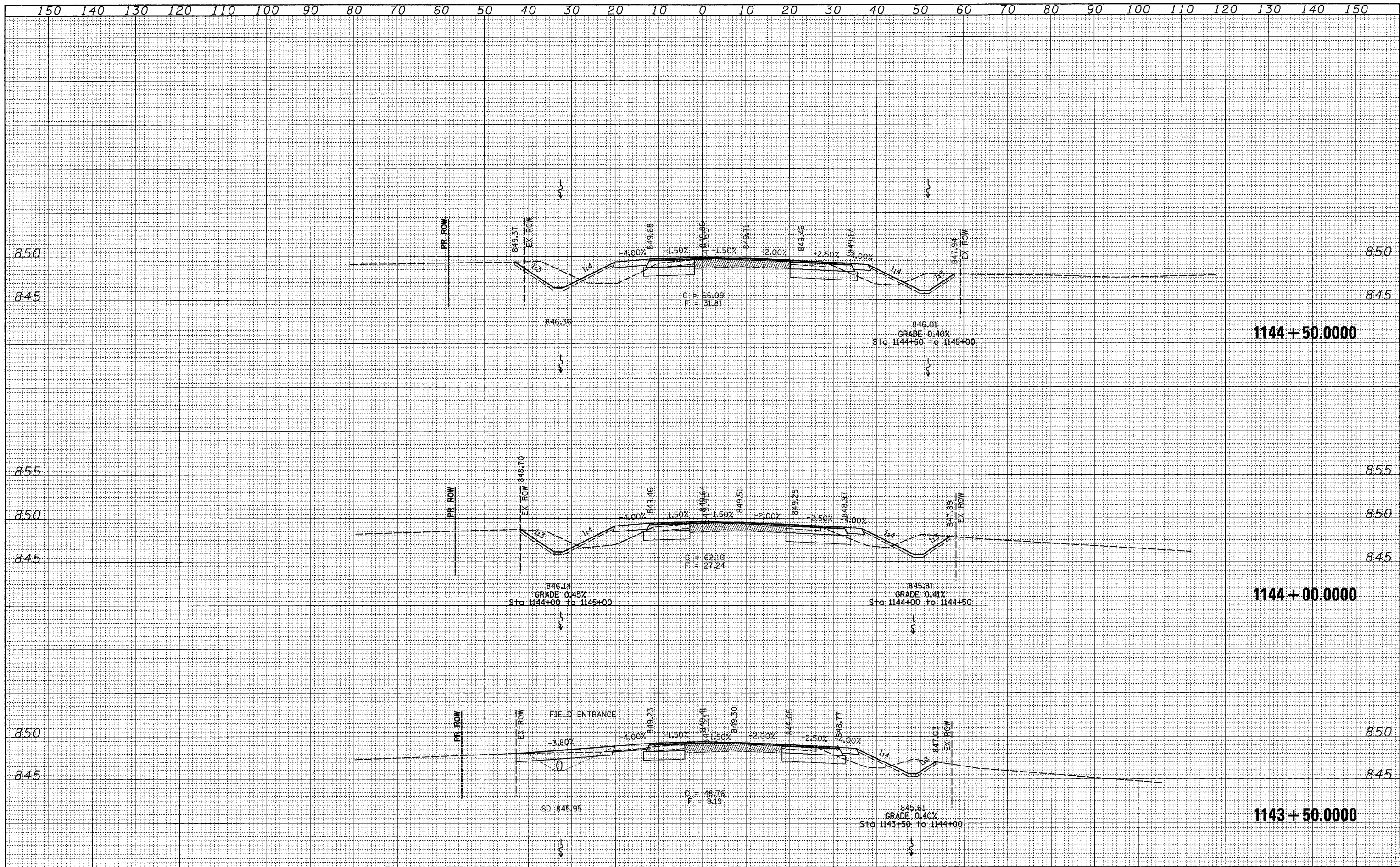
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

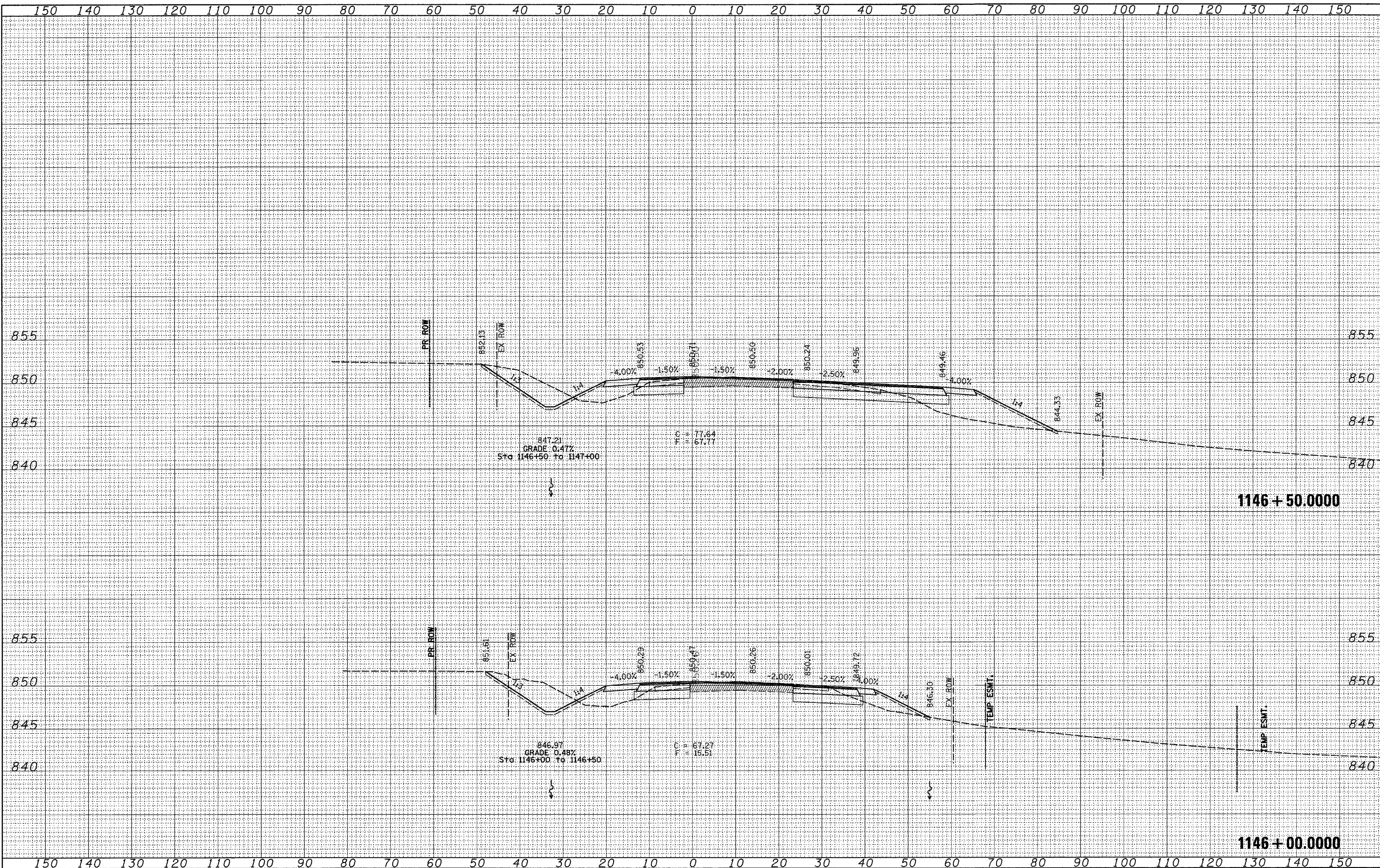
REVISED - 11-01-07	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					754	101M	BOONE	48	30
REVISED -					CONTRACT NO. 64A45				
REVISED -	SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME = c:\projects\p205624\d09624x.mxd	USER NAME = polznej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 76	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 32	
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. 1139+00.0000 TO STA. 1140+00.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64A45	
PLOT DATE = Tue Mar 11 08:48:51 2008	DATE -	REVISED -									



FILE NAME = c:\projects\p289604\d89604.mxd	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 76	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 35		
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	PLOT DATE = Tue Mar 11 08:40:53 2008	CHECKED -	REVISED -			STA. 1143+50.000 TO STA. 1144+50.000						
		DATE -	REVISED -			CONTRACT NO. 64A45						



1146 + 50.0000

1146 + 00.0000

FILE NAME =
 c:\projects\p20604\d09604xm.dgn

USER NAME = polznej
 PLOT SCALE = 10.0000' / IN.
 PLOT DATE = Tue Mar 11 08:49:53 2008

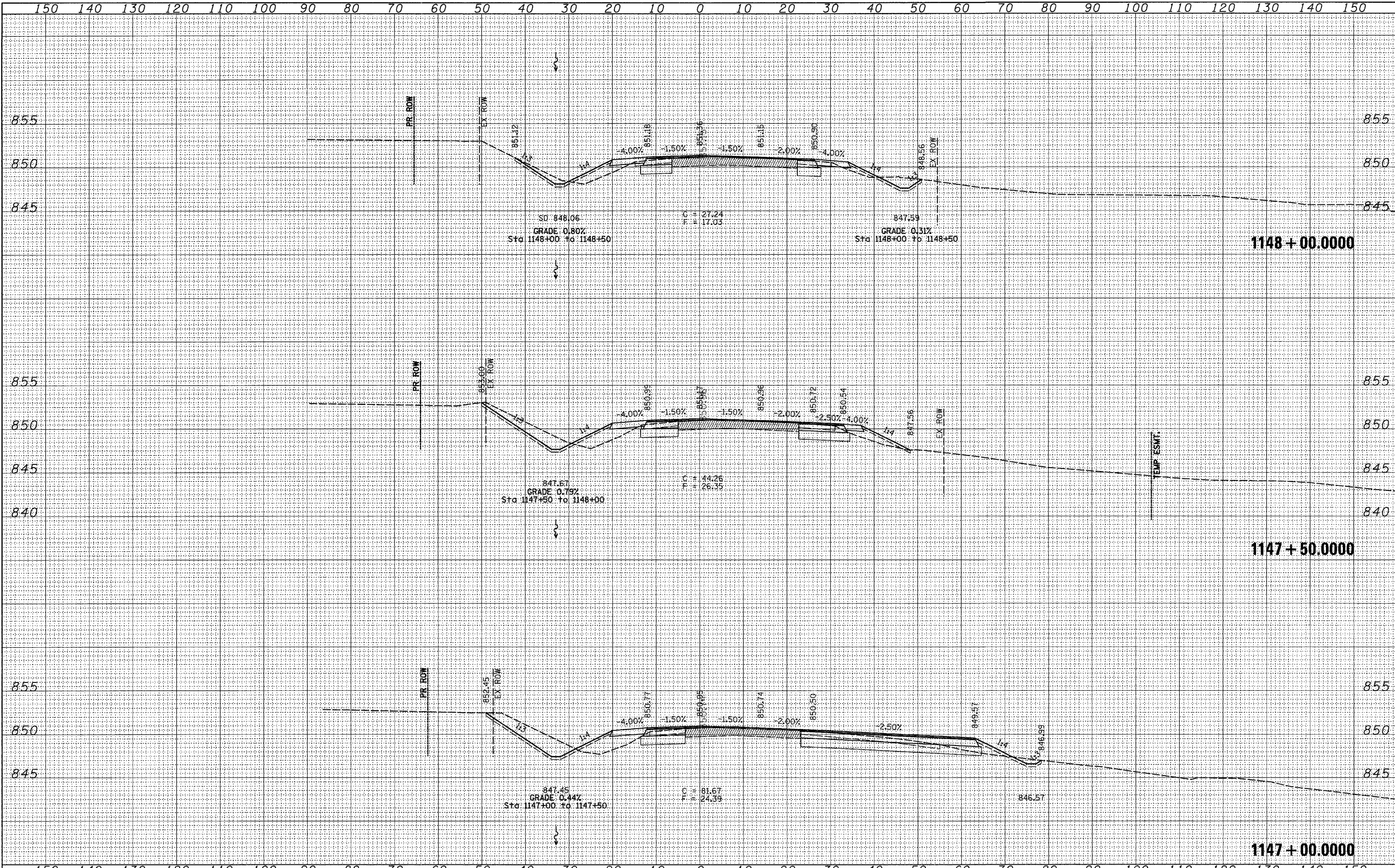
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

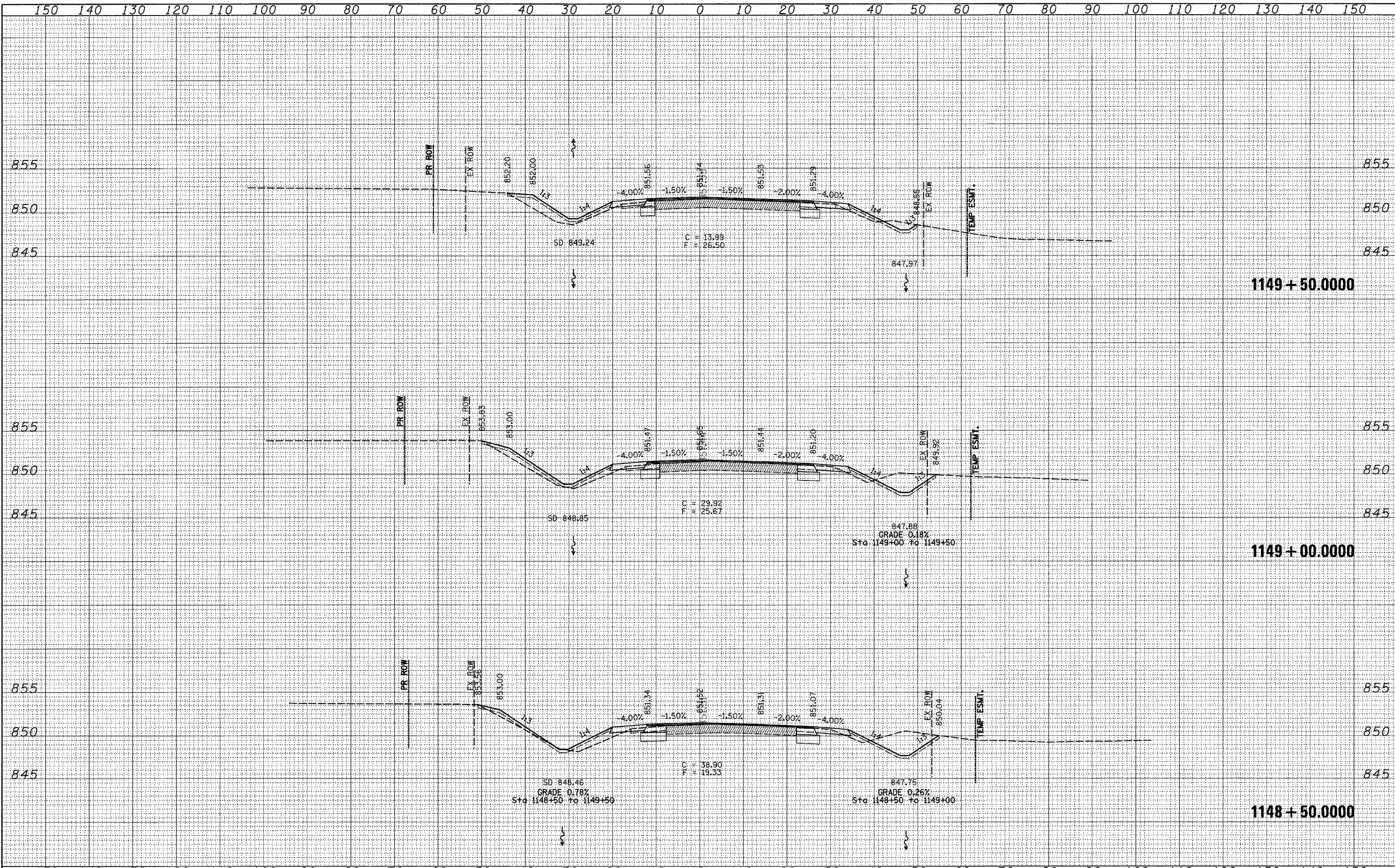
IL RTE 76

SCALE: SHEET NO. OF SHEETS STA. 1146+00.0000 TO STA. 1146+50.0000

F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 37
CONTRACT NO. 64A45			ILLINOIS FED. AID PROJECT	



FILE NAME = c:\projects\p201604\101604.mxd	USER NAME = polznej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 76	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 38	
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. 1147+00.000 TO STA. 1148+00.000	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 64A45
PLOT DATE = Tue Mar 11 08:48:52 2008	CHECKED -	REVISED -									
	DATE -	REVISED -									



FILE NAME =
 c:\projects\p209624\d09624xm.dgn

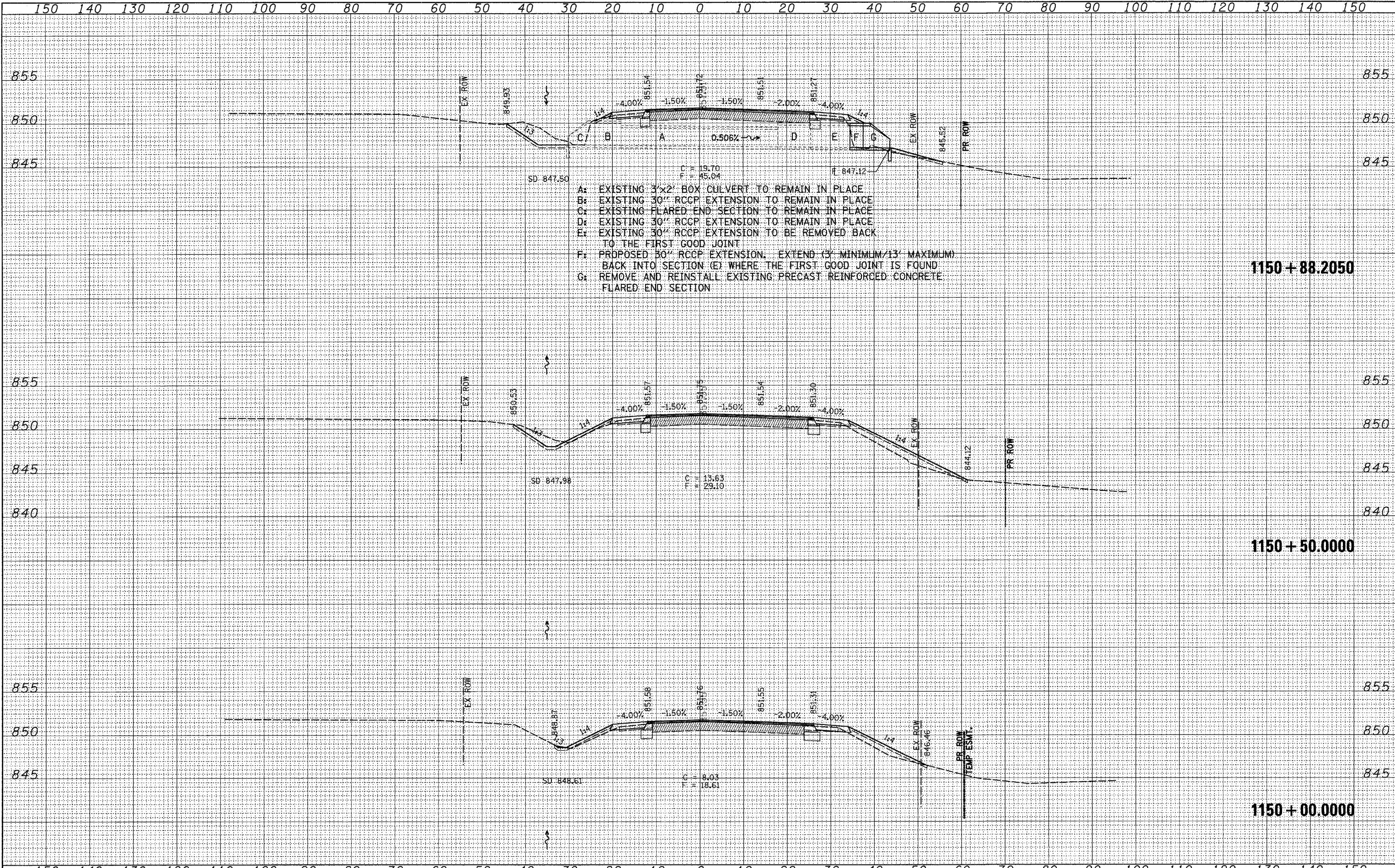
USER NAME = polznej	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = Tue Mar 11 08:49:52 2008	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL RTE 76

SCALE: SHEET NO. OF SHEETS STA. 1148+50.0000 TO STA. 1149+50.0000

F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 39
CONTRACT NO. 64A45			ILLINOIS FED. AID PROJECT	



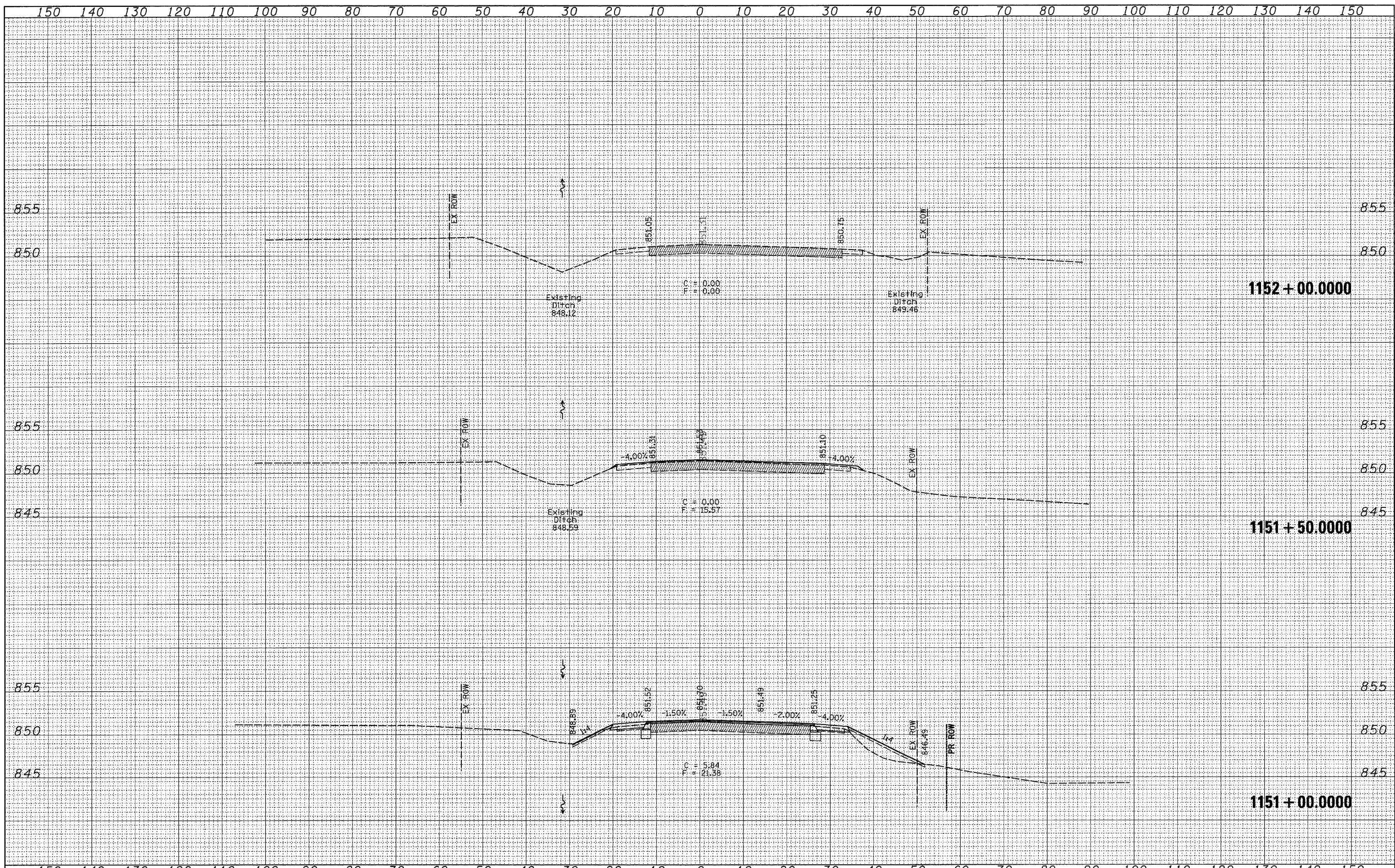
- A: EXISTING 3'x2' BOX CULVERT TO REMAIN IN PLACE
- B: EXISTING 30" RCCP EXTENSION TO REMAIN IN PLACE
- C: EXISTING FLARED END SECTION TO REMAIN IN PLACE
- D: EXISTING 30" RCCP EXTENSION TO REMAIN IN PLACE
- E: EXISTING 30" RCCP EXTENSION TO BE REMOVED BACK TO THE FIRST GOOD JOINT
- F: PROPOSED 50" RCCP EXTENSION. EXTEND (3' MINIMUM/13' MAXIMUM) BACK INTO SECTION (E) WHERE THE FIRST GOOD JOINT IS FOUND
- G: REMOVE AND REINSTALL EXISTING PRECAST REINFORCED CONCRETE FLARED END SECTION

1150 + 88.2050

1150 + 50.0000

1150 + 00.0000

FILE NAME = c:\proj\secta\p209624\d09624xm.dgn	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 76	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 40		
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. 1150+00.0000 TO STA. 1150+88.2050	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64A45		
PLOT DATE = Tue Mar 11 09:48:52 2008	DATE -	REVISED -										



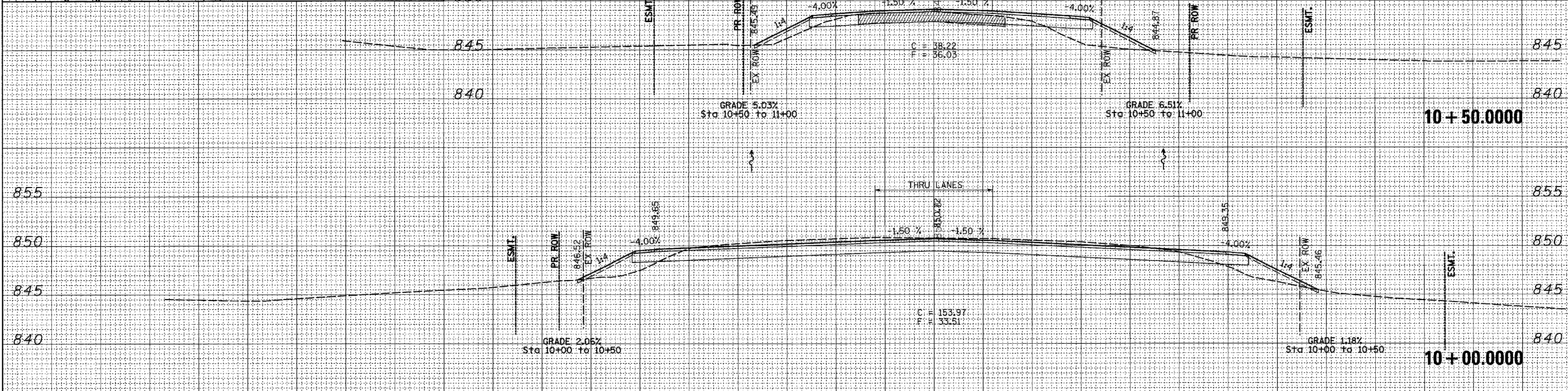
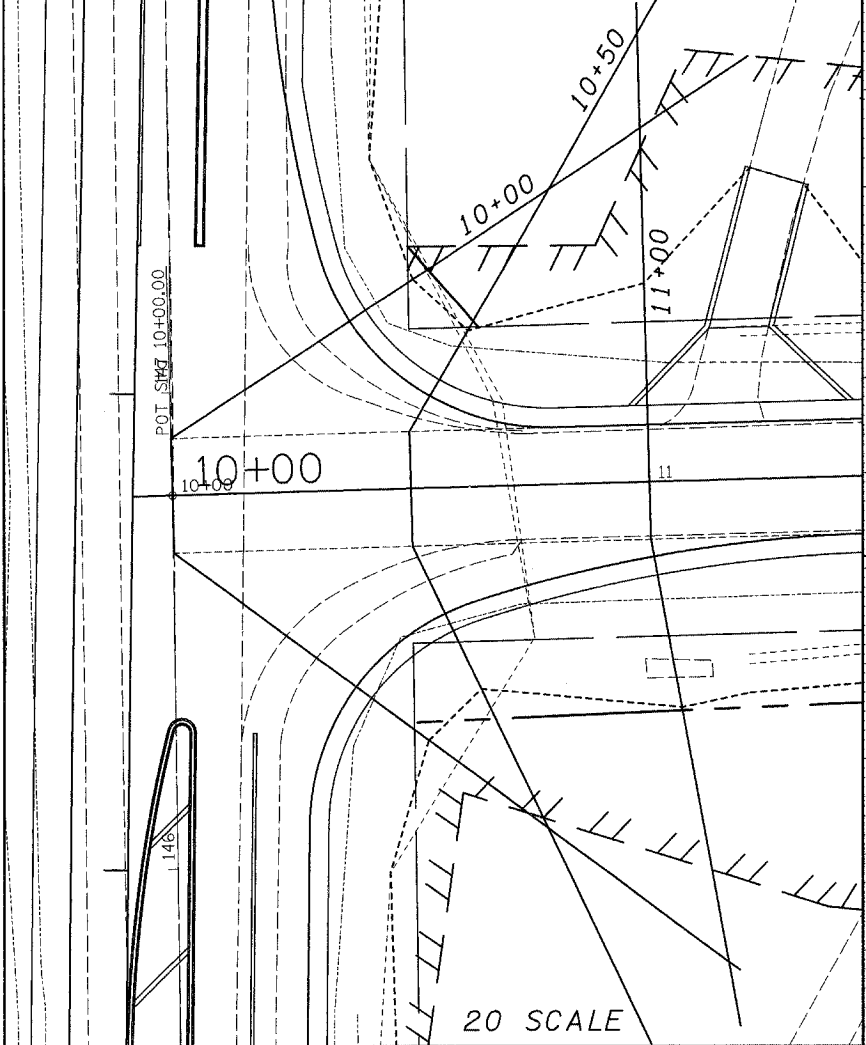
1152 + 00.0000

1151 + 50.0000

1151 + 00.0000

FILE NAME = es:\projects\p209604\d09604.dgn	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 76	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 41
PLOT SCALE = 1/8" = 10.0000' / IN.	DRAWN -	REVISED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	CONTRACT NO. 64A45		
PLOT DATE = Tue Mar 11 08:49:52 2008	CHECKED -	REVISED -	REVISED -			STA. 1151+00.0000 TO STA. 1152+00.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
	DATE -	REVISED -	REVISED -							

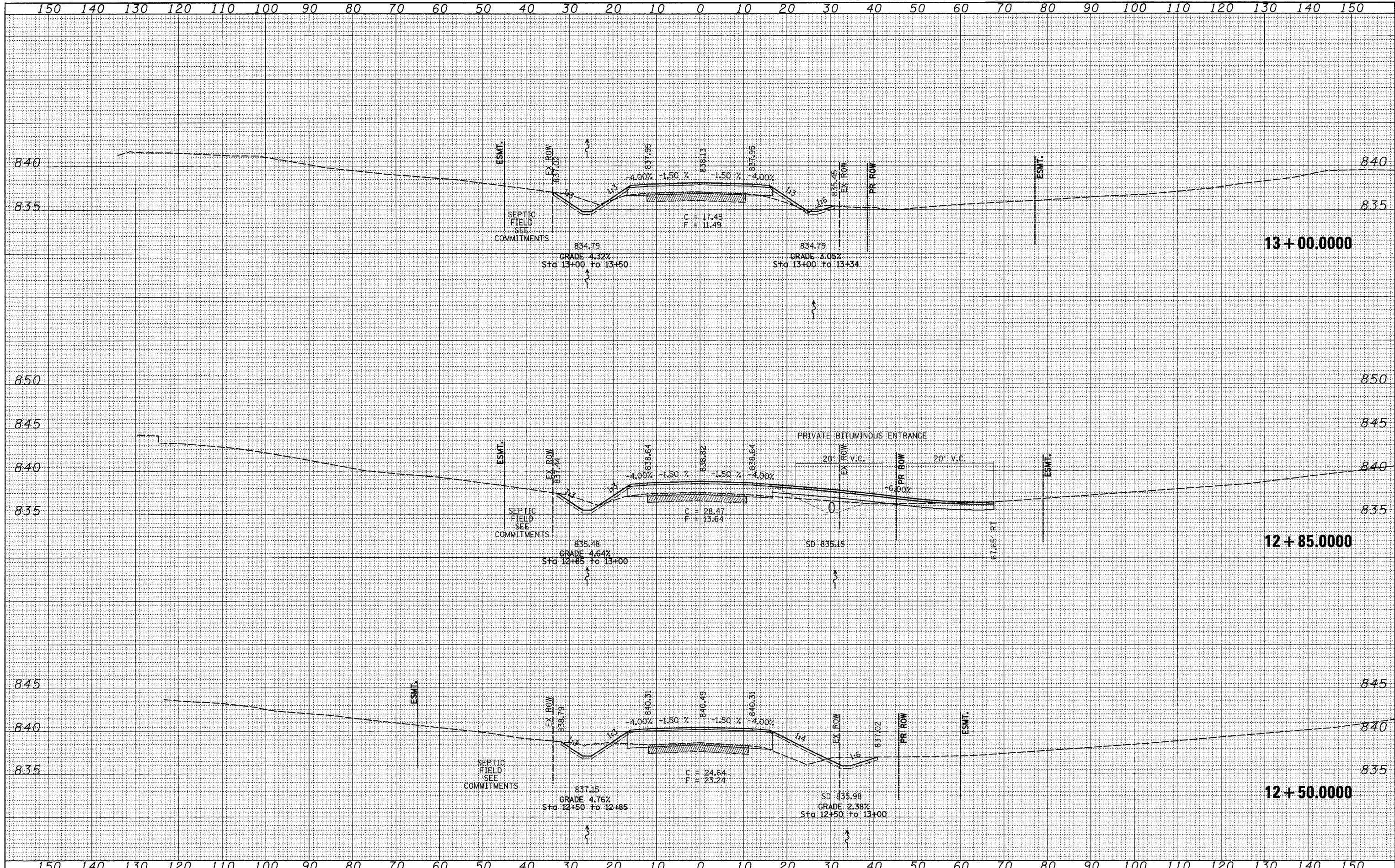
120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120



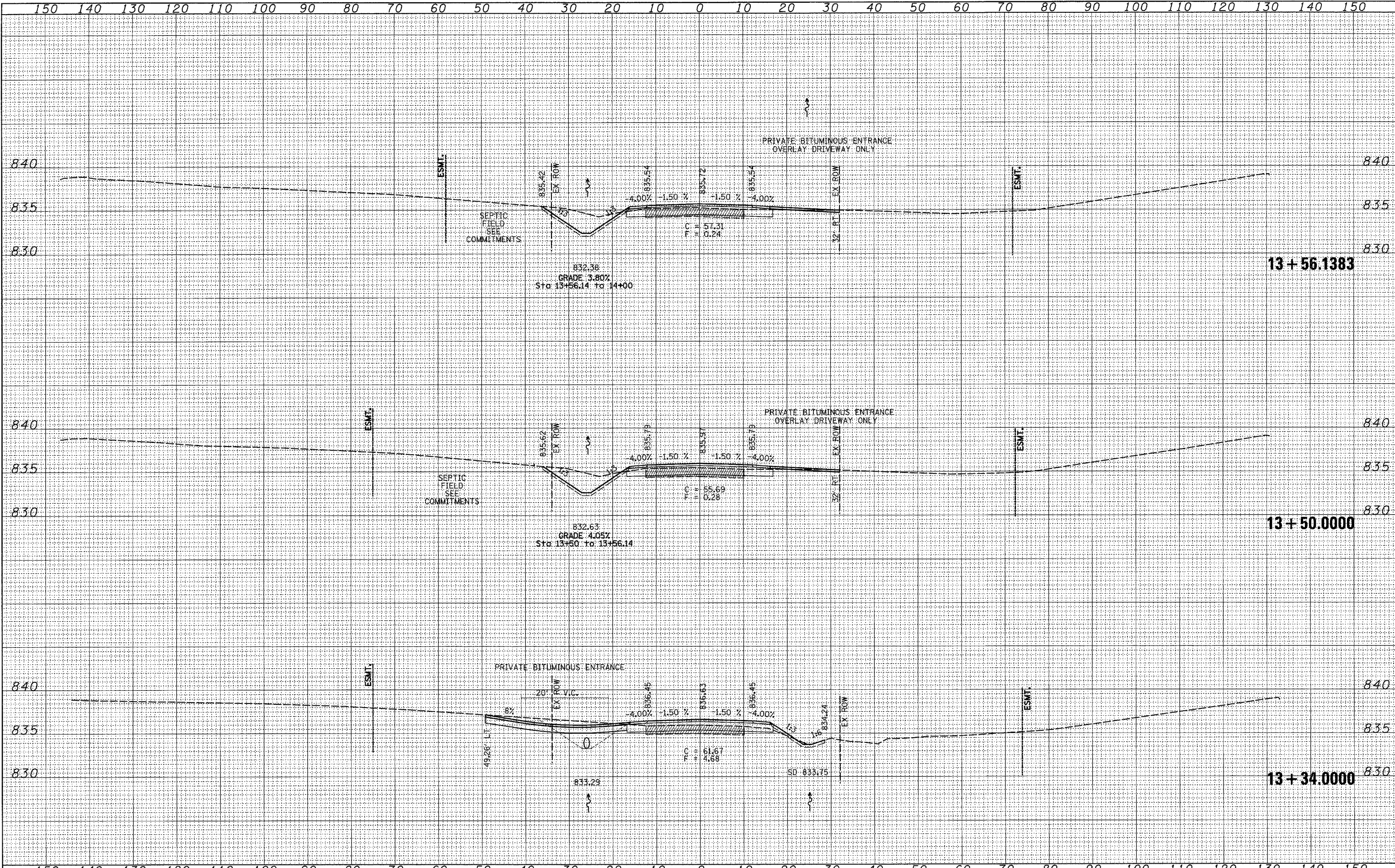
120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120

FILE NAME =	USER NAME = polzinej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALNUT GROVE DR.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\projects\p209604\d09604xs.dgn		DRAWN -	REVISED -			754	101M	BOONE	48	42	
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64A45					
PLOT DATE = Tue Mar 11 09:00:43 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

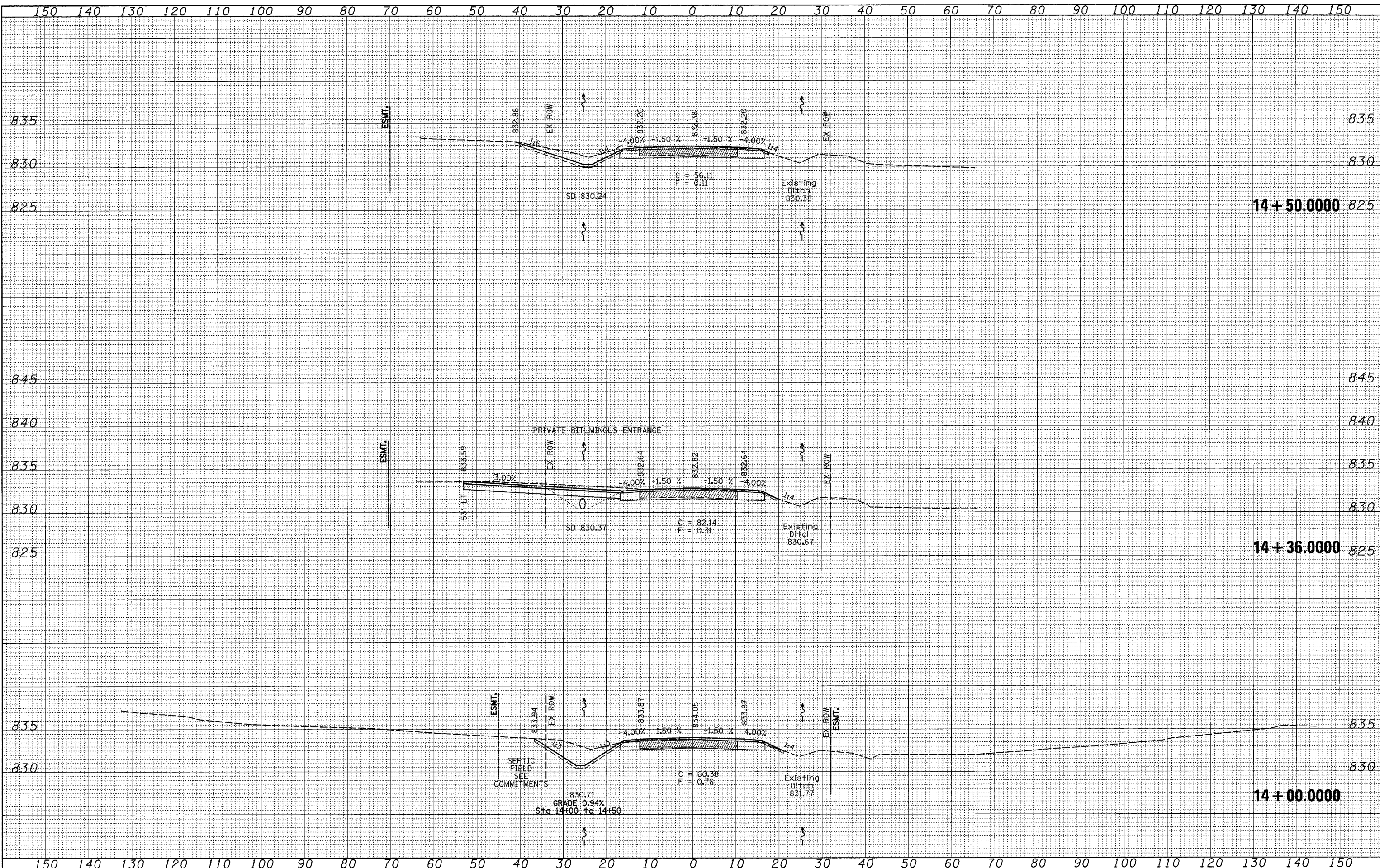
SCALE: SHEET NO. OF SHEETS STA. 9+98.5671 TO STA. 10+50.0000



FILE NAME = c:\projects\p209624\d09624x.dgn	USER NAME = polznej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALNUT GROVE DR.	F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 45	
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. 12+50.0000 TO STA. 13+00.0000	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
PLOT DATE = Tue Mar 11 09:00:44 2009	DATE -	REVISED -	CONTRACT NO.								



FILE NAME = c:\projects\p209684\d29624x.dgn	USER NAME = polznej	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALNUT GROVE DR.			F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 46
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 13+34.0000 TO STA. 13+56.1383	CONTRACT NO. 64A45		
		CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -									



FILE NAME =
 c:\projects\p209604\d09604xs.dgn

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

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALNUT GROVE DR.
 SCALE: SHEET NO. OF SHEETS STA. 14+00.000 TO STA. 14+50.000

F.A.P. RTE. 754	SECTION 101M	COUNTY BOONE	TOTAL SHEETS 48	SHEET NO. 47
CONTRACT NO. 64A45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

