CONTRACT NO. 64A77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42 +1 43	1

4-25-08 Letting, Item 154

PROJECT ENGINEER REBECCA MARRUFFO

SQUAD LEADER: PAUL GRANT (815)-284-5904

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF STANDARDS, SEE SHEET NO. 2

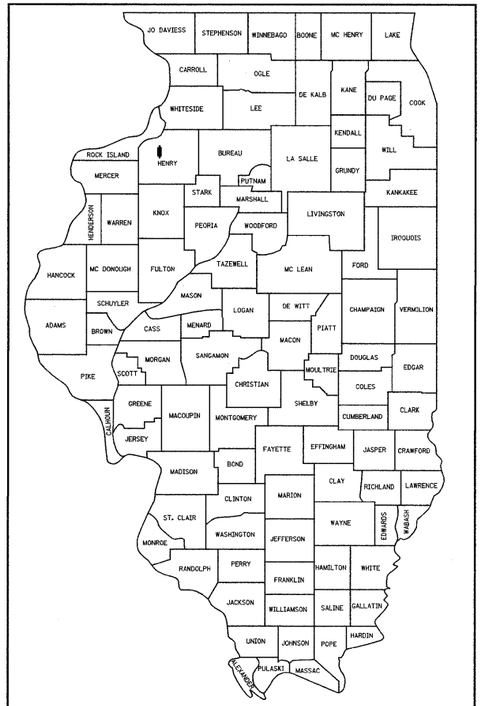
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 634 (IL 82)
SECTION 138T

HENRY COUNTY
C-92-059-08

D-92-037-05



LOCATION OF SECTION INDICATED THUS:- ▬

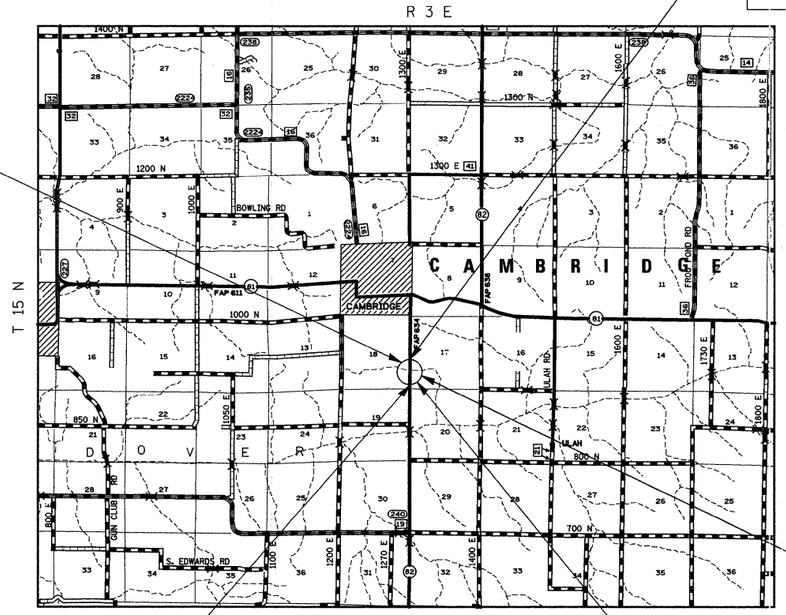
IMPROVEMENT ENDS
STA 437+00

SECTION ENDS
STA 433+47.40

SECTION BEGINS
STA 432+37.40

IMPROVEMENT BEGINS
STA 430+25

BOX CULVERT
STA 432+94.78



N

EXISTING 10' X 8' CULVERT SN# 037-1077
PROPOSED 10' X 8' CULVERT SN# 037-1182

100' 200' 300' — 1"= 100'
0 10' 20' 30' — 1"= 10'
0 50' 100' — 1"= 50'
0 50' 100' — 1"= 40'
0 50' 100' — 1"= 30'
0 50' 100' — 1"= 20'

CAMBRIDGE TOWNSHIP, SECTION 17,18

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

CONTRACT NO. 64A77

NET LENGTH OF PROJECT = 110 FEET = 0.02 MILES

GROSS LENGTH OF PROJECT = 110 FEET = 0.02 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 01/23 2008
George F. Ryan
DEPUTY DIRECTOR OF ~~HIGHWAYS~~, REGION ENGINEER
March 21, 2008
Eric E. Harm PE
Interim ENGINEER OF DESIGN AND ENVIRONMENT
March 21, 2008
Christine M. Reed PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FAP 634 (IL 82)	SECTION 138T	HENRY COUNTY

INDEX OF SHEETS

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542301-01	Precast Reinforced Concrete Flared End Section
542401	Metal End Section for Pipe Culverts
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635001	Delineators
666001	Right of Way Markers
667101	Permanent Survey Markers
701001-01	Off-Road Operations, 2L, 2W, More Than 4.5 m (15') Away
701006-02	Off-Road Operations, 2L, 2W, 4.5 m (15') to 600 mm (24") From Pavement Edge
701011-01	Off-Road Moving Operations, 2L, 2W, Day Only
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701301-02	Lane Closure, 2L, 2W, Short Time Operations
701311-02	Lane Closure, 2L, 2W, Moving Operations - Day Only
701901	Traffic Control Devices
720011	Metal Posts for Signs, Markers and Delineators
728001	Telescoping Steel Sign Support
729001	Applications of Types A and B Metal Posts (For Signs & Markers)
780001-01	Typical Pavement Markings
000001-05	Standard Symbols, Abbreviations and Patterns
001001-01	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	2

Y007

	CODE NUMBER	PAY ITEM	UNIT	100% STATE TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60
	20100500	TREE REMOVAL, ACRES	ACRE	0.4
	20200100	EARTH EXCAVATION	CU YD	2711
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	252
	20400800	FURNISHED EXCAVATION	CU YD	491
*	25000210	SEEDING, CLASS 2A	ACRE	1.25
*	25000310	SEEDING, CLASS 4	ACRE	0.25
*	25000750	MOWING	ACRE	1.5
*	25100115	MULCH, METHOD 2	ACRE	1.5
*	25100630	EROSION CONTROL BLANKET	SQ YD	4900
*	25100900	TURF REINFORCEMENT MAT	SQ YD	2400
	28000300	TEMPORARY DITCH CHECKS	EACH	40
	28000400	PERIMETER EROSION BARRIER	FOOT	300
	28000500	INLET PIPE PROTECTION	EACH	1
	28100105	STONE RIPRAP, CLASS A3	SQ YD	32.0
	28100107	STONE RIPRAP, CLASS A4	SQ YD	84
	28200200	FILTER FABRIC	SQ YD	121
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	41
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	21.0
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	25.0
	42001200	PAVEMENT FABRIC	SQ YD	300.0
	44000400	GUTTER REMOVAL	FOOT	306.0
	44002500	GUTTER OUTLET REMOVAL	EACH	2.0
	44201421	CLASS C PATCHES, TYPE IV, 15 INCH	SQ YD	300.0
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	110.0
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
	51901105	STEEL RAILING	FOOT	28.3
	51500100	NAME PLATES	EACH	1
	54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	1
	54011008	PRECAST CONCRETE BOX CULVERT 10' X 8'	FOOT	140

• SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	3
		CONTRACT NO. 64H77		

Y007

CODE NUMBER	PAY ITEM	UNIT	100% STATE TOTAL QUANTITY
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	40
54201270	PIPE CULVERTS, TYPE 2 RCCP 15"	FOOT	50
54213453	END SECTIONS 18"	EACH	2
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2
60405800	GRATES AND COVERS, TYPE 2A	EACH	2
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6.2
60602500	CONCRETE GUTTER, TYPE A	FOOT	306
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	50
61100605	MISCELLANEOUS CONCRETE	CU YD	2
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
63200310	GUARDRAIL REMOVAL	FOOT	343
63500105	DELINEATORS	EACH	4
66411900	TEMPORARY FENCE	FOOT	545
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67100100	MOBILIZATION	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2195
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	725
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4390
• A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20
• C2001748	SHRUB, CORNUS SERICEA CARDINAL (CARDINAL REDOSIER DOGWOOD), 4' HEIGHT, BALLED AND BURLAPPED	EACH	30
Z0005400	BREAKER-RUN CRUSHED STONE	TON	531
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	380
X0322263	CULVERT DROP BOX	EACH	1
X0325911	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	TON	200
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	EACH	1

• SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	4

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 634 (IL 82)	138T	Henry	42	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A77				

See cross sections for special ditches and backslopes.

At the locations where Excavation Quantities on the plans are indicated as having been estimated, the Engineer will obtain original and final cross sections to determine Pay Quantities.

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.

It is estimated that 491 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

Program #5
(Arch. Siz
Enlarge
200%
Enlarge 107%

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.

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

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Leveling Binder (mm)	Surface	Hot-Mix Asphalt Surface Course, Special
PG:	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 12.5 or 9.5	IL 12.5 or 9.5
Friction Aggregate	N/A	C	C
20 Year ESAL	0.3	0.3	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.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per metric ton (ton) for LEVELING BINDER (MACHINE METHOD) of the type specified or HOT-MIX ASPHALT SURFACE COURSE, SPECIAL.

The new number for this structure will be 037-1182.

The old number for this structure will be 037-1077.

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

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

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

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

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.

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. 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.

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

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 634 (IL 82)	138T	Henry	42	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64A77				

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

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

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:

Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

American Natural Resources Pipeline Co.	Cambridge Telephone
Ameren IP	Corn Belt Energy Corp.

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.

Work on this project will be in progress at the same time as work on the box culvert removal and replacement on IL 81. Work on these projects shall be scheduled to keep interference between all the projects to a minimum. The contractors shall inform each other of progress of the projects and give fair warning to the other contractors when a problem might be encountered.

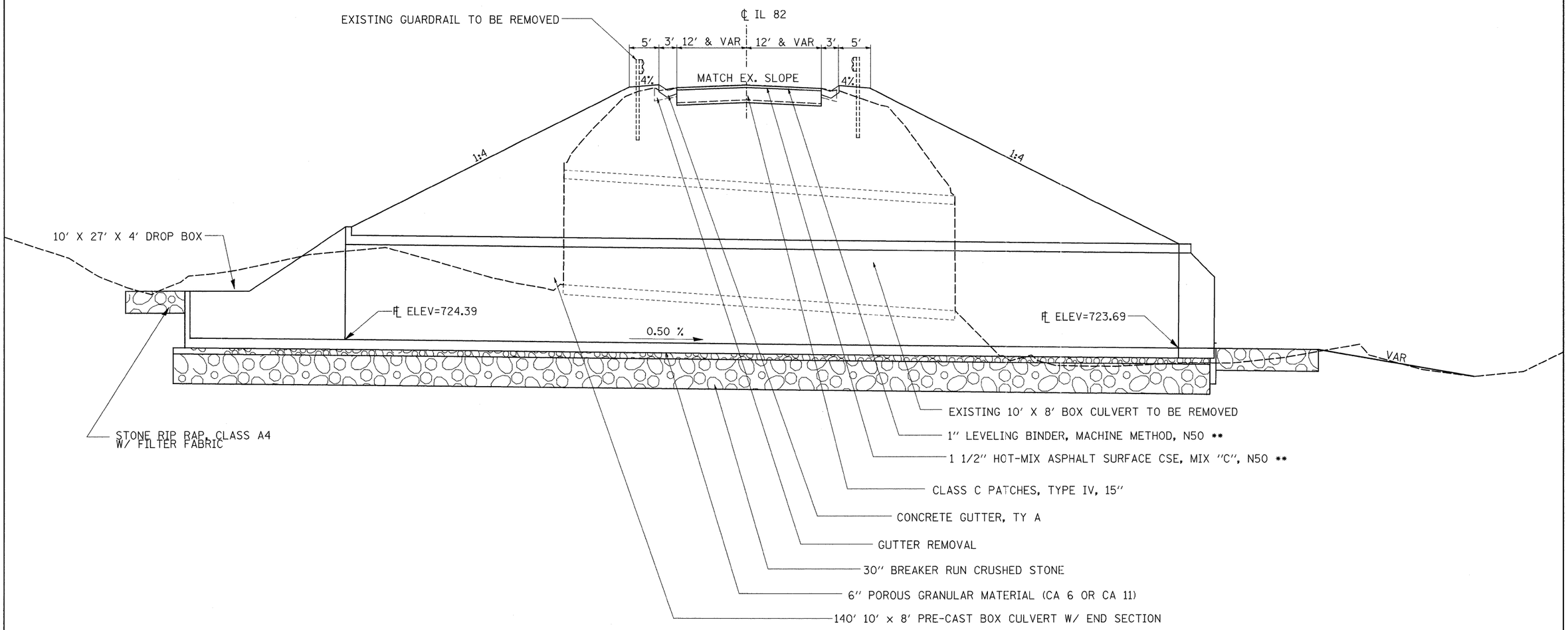
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any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

Temporary Fencing shall be used to protect the golf course from work zone activities at locations shown on the plans. The temporary fence will conform to SSR&BC, Article 201.05(a) and will be paid for at the contract unit price per Foot for TEMPORARY FENCE.

COMMITMENTS

1. A commitment has been made to not disturb the tee box located within the temporary easement.

2. The Department will construct a 24' wide field entrance at Sta. 436+70 Rt. The commitment was made by the project technician.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	7
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION		REMARKS
7.0	RT Sta	430+56.0	50' RT
8.0	LT Sta	432+89.0	105' LT
8.0	LT Sta	432+94.0	84' LT
7.0	LT Sta	433+06.0	46' LT
7.0	LT Sta	433+08.0	50' LT
7.0	LT Sta	433+09.0	41' LT
9.0	LT Sta	433+10.0	46' LT
7.0	LT Sta	433+11.0	59' LT
60.0 TOTAL			

20100500 TREE REMOVAL, ACRES

ACRE	LOCATION		REMARKS
0.3	RT Sta	432+44.0 TO 433+75.0	ENTIRE PROJECT
0.1	LT Sta	430+31.0 TO 432+20.0	
0.4 TOTAL			

20200100 EARTH EXCAVATION

CU. YD.	LOCATION		REMARKS
2611.0	LT & RT Sta	430+25.0 TO 436+75.0	ENTIRE PROJECT
100.0	LT Sta.	432+95.0	ESTIMATED U/S & D/S CHANNEL EXCAVATION
2711.0 TOTAL			

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

CU. YD.	LOCATION		REMARKS
252.0	LT & RT Sta	432+95.0	UNDER CULVERT
252.0 TOTAL			

20400800 FURNISHED EXCAVATION

CU. YD.	LOCATION		REMARKS
491.0	LT & RT Sta	430+25.0 TO 436+75.0	ENTIRE PROJECT
491.0 TOTAL			

25000210 SEEDING, CLASS 2A

ACRE	LOCATION		REMARKS
0.55	LT Sta.	430+25.0 TO 437+00.0	
0.70	RT Sta.	430+25.0 TO 437+00.0	
1.25 TOTAL			

25000310 SEEDING, CLASS 4

ACRE	LOCATION		REMARKS
0.10	LT Sta.	430+25.0 TO 437+00.0	
0.15	RT Sta.	430+25.0 TO 437+00.0	
0.25 TOTAL			

25000750 MOWING

ACRE	LOCATION		REMARKS
0.65	LT Sta.	430+25.0 TO 437+00.0	
0.85	RT Sta.	430+25.0 TO 437+00.0	
1.50 TOTAL			

25100115 MULCH, METHOD 2

ACRE	LOCATION		REMARKS
0.65	LT Sta.	430+25.0 TO 437+00.0	
0.85	RT Sta.	430+25.0 TO 437+00.0	
1.50 TOTAL			

25100630 EROSION CONTROL BLANKET

SQ. YD.	LOCATION		REMARKS
2186	LT Sta.	430+25.0 TO 437+00.0	
2714	RT Sta.	430+25.0 437+00.0	
4900 TOTAL			

25100900 TURF REINFORCEMENT MAT

SQ. YD	LOCATION		REMARKS
480.0	LT Sta.	430+25.0 TO 432+95.0	
480.0	RT Sta.	430+25.0 432+95.0	
720.0	LT Sta.	432+95.0 437+00.0	
720.0	RT Sta.	432+95.0 437+00.0	
2400.0 TOTAL			

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION		REMARKS
8	RT Sta.	431+00.0 TO 432+95.0	25' CTS
9	LT Sta.	430+75.0 TO 432+95.0	25' CTS
12	RT Sta.	432+95.0 TO 436+25.0	25' CTS
11	LT Sta.	432+95.0 TO 436+00.0	25' CTS
40 TOTAL			

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION		REMARKS
100	RT Sta.	430+75.0 TO 431+75.0	
200	ENTIRE PROJECT		IF NEEDED
300 TOTAL			

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION		REMARKS
1.0	RT Sta.	436+91.0	FIELD ENTRANCE
1.0 TOTAL			

28100105 STONE RIPRAP, CLASS A3

SQ. YD.	LOCATION		DIMENSION	REMARKS
19.0	RT Sta.	434+01.0	31' x 5'	End of Culvert Gutter Outlet
13.0	LT Sta.	434+01.0	23' X 5'	End of Culvert Gutter Outlet
32.0 TOTAL				

28100107 STONE RIPRAP, CLASS A4

SQ. YD.	LOCATION		DIMENSION	REMARKS
36.0	LT Sta.	432+95.0	21' X 22'	U/S End of Culvert
48.0	RT Sta.	432+95.0	20' x 22'	D/S End of Culvert
84.0 TOTAL				

28200200 FILTER FABRIC

SQ. YD.	LOCATION		DIMENSION	REMARKS
36.0	LT Sta.	432+95.0	21' X 22'	U/S End of Culvert
50.0	RT Sta.	432+95.0	20' x 22'	D/S End of Culvert
20.0	RT Sta.	434+01.0	31' x 5'	End of Culvert Gutter Outlet
15.0	LT Sta.	434+01.0	23' X 5'	End of Culvert Gutter Outlet
121.0 TOTAL				

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION		REMARKS
41.0	RT Sta.	436+69.0	FIELD ENTRANCE
41.0 TOTAL			

40600625 LEVELING BINDER (MACHINE METHOD), N50

TON	LOCATION		THICKNESS (in)	REMARKS
10.50	LT Sta.	432+37.0 TO 433+47.0	1.0	110 x 12 - One Lane
10.50	RT Sta.	432+37.0 TO 433+47.0	1.0	110 x 12 - One Lane
21.00 TOTAL				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	8
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

TON	LOCATION			THICKNESS (in)	REMARKS
12.50	LT Sta.	432+37.0 TO	433+47.0	1.5	110 x 12 - One Lane
12.50	RT Sta.	432+37.0 TO	433+47.0	1.5	110 x 12 - One Lane
25.00 TOTAL					

42001200 PAVEMENT FABRIC

SQ. YD.	LOCATION			REMARKS
150.0	LT Sta.	432+37.0 TO	433+47.0	110 x 12 - One Lane
150.0	RT Sta.	432+37.0 TO	433+47.0	110 x 12 - One Lane
300.0 TOTAL				

44000400 GUTTER REMOVAL

FOOT	LOCATION			REMARKS
153.0	LT Sta.	432+12.0 TO	433+65.0	
153.0	RT Sta.	432+12.0 TO	433+65.0	
306.0 TOTAL				

44002500 GUTTER OUTLET REMOVAL

EACH	LOCATION		REMARKS
1.0	LT Sta.	434+03.0	
1.0	RT Sta.	434+03.0	
2.0 TOTAL			

44201421 CLASS C PATCHES, TYPE IV, 15 INCH

SQ. YD.	LOCATION			REMARKS
150.0	LT Sta.	432+37.0 TO	433+47.0	110 x 12 - One Lane
150.0	RT Sta.	432+37.0 TO	433+47.0	110 x 12 - One Lane
300.0 TOTAL				

48102100 AGGREGATE WEDGE SHOULDER, TYPE B

TON	LOCATION			REMARKS
17.5	RT Sta.	434+39.0 TO	437+00.0	
17.5	LT Sta.	434+39.0 TO	437+00.0	
75.0	DETOUR ROUTE			IF NEEDED
110.0 TOTAL				

50100100 REMOVAL OF EXISTING STRUCTURES

EACH	LOCATION		REMARKS
1.0	Sta.	432+95.0	EXISTING 10' X 8' BOX CULVERT
1.0 TOTAL			

51500100 NAME PLATES

EACH	LOCATION		REMARKS
1.0	Sta.	432+95.0	10' X 8' PRE-CAST BOX CULVERT
1.0 TOTAL			

54001001 BOX CULVERT END SECTION, CULVERT NO. 1

EACH	LOCATION		REMARKS
1.0	Sta.	432+95.0	10' X 8' PRE-CAST BOX CULVERT
1.0 TOTAL			

54011008 PRECAST CONCRETE BOX CULVERT 10' X 8'

FOOT	LOCATION		REMARKS
140.0	Sta.	432+95.0	
140.0 TOTAL			

54201270 PIPE CULVERTS, TYPE 2 RCCP 15"

FOOT	LOCATION		REMARKS
22.0	LT. Sta.	434+01.0	GUTTER OUTETS
28.0	RT Sta.	434+01.0	GUTTER OUTETS
50.0 TOTAL			

54213453 END SECTIONS 18"

EACH	LOCATION		REMARKS
1.0	RT Sta.	436+49.0	FIELD ENTRANCE
1.0	RT Sta.	436+89.0	FIELD ENTRANCE
2.0 TOTAL			

54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"

EACH	LOCATION		REMARKS
1.0	LT. Sta.	434+01.0	GUTTER OUTLETS
1.0	RT Sta.	434+01.0	GUTTER OUTLETS
2.0 TOTAL			

542D0223 PIPE CULVERTS CLASS D, TYPE 1, 18"

FOOT	LOCATION		REMARKS
40.0	RT. Sta.	436+69.0	FIELD ENTRANCE
40.0 TOTAL			

60405800 GRATES AND COVERS, TYPE 2A

EACH	LOCATION		REMARKS
1.0	LT. Sta.	434+01.0	OUTLETS TY 2 FOR TY A GUTTER--STD. 606111
1.0	RT Sta.	434+01.0	OUTLETS TY 2 FOR TY A GUTTER--STD. 606111
2.0 TOTAL			

60600095 CLASS SI CONCRETE (OUTLET)

CU. YD.	LOCATION			REMARKS
3.1	LT Sta.	433+65.0 TO	434+39.0	OUTLETS TY 2 FOR TY A GUTTER--STD. 606111
3.1	RT Sta.	433+65.0 TO	434+39.0	OUTLETS TY 2 FOR TY A GUTTER--STD. 606111
6.2 TOTAL				

60602500 CONCRETE GUTTER, TYPE A

FOOT	LOCATION			REMARKS
153.0	LT Sta.	432+12.0 TO	433+65.0	PATCH AREA
153.0	RT Sta.	432+12.0 TO	433+65.0	PATCH AREA
306.0 TOTAL				

61100500 EXPLORARTION TRENCH 52" DEPTH

FOOT	LOCATION		REMARKS
50.0	RT/LT Sta.	432+95.0	ESTIMATED
50.0 TOTAL			

61100605 MISCELLANEOUS CONCRETE

CU YD	LOCATION		REMARKS
1.0	RT Sta.	432+95.0	SLOPE WALL FOR FIELD TILE OUTLETS (ESTIMATED)
1.0	LT Sta.	432+95.0	SLOPE WALL FOR FIELD TILE OUTLETS (ESTIMATED)
2.0 TOTAL			

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA

EACH	LOCATION		REMARKS
1.0	RT Sta.	432+95.0	ESTIMATED
1.0	LT Sta.	432+95.0	ESTIMATED
2.0 TOTAL			

61140000 STORM SEWERS (SPECIAL) 8"

FOOT	LOCATION		REMARKS
50.0	LT Sta.	432+95.0	ESTIMATED
50.0	RT. Sta.	432+95.0	ESTIMATED
100.0 TOTAL			

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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	9
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

61140100 STORM SEWERS (SPECIAL) 10"

FOOT	LOCATION		REMARKS
50.0	LT Sta.	432+95.0	ESTIMATED
50.0	RT. Sta.	432+95.0	ESTIMATED
100.0 TOTAL			

61140200 STORM SEWERS (SPECIAL) 12"

FOOT	LOCATION		REMARKS
50.0	LT Sta.	432+95.0	ESTIMATED
50.0	RT. Sta.	432+95.0	ESTIMATED
100.0 TOTAL			

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION			REMARKS
115.0	LT Sta.	432+85.0 TO	434+00.0	
228.0	RT. Sta.	431+71.0 TO	434+00.0	
343.0 TOTAL				

63500105 DELINEATORS

EACH	LOCATION			REMARKS
4.0	LT Sta.	432+37.0 TO	433+47.0	AT BOX CULVERT
4.0 TOTAL				

66411900 TEMPORARY FENCE

FOOT	LOCATION			REMARKS
545.0	LT Sta.	430+30.0 TO	435+50.0	ON PROPOSED RIGHT OF WAY
545.0 TOTAL				

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION		OFFSET (ft)	REMARKS
1	LT Sta.	430+30.0	48' LT	
1	LT Sta.	432+40.0	110' LT	
1	LT Sta.	433+35.0	110' LT	
1	LT Sta.	433+75.0	80' LT	
1	LT Sta.	435+50.0	42' LT	
1	RT Sta.	430+15.0	44' RT	
1	RT Sta.	432+51.9	130' RT	
1	RT Sta.	433+75.0	130' RT	
1	RT Sta.	434+75.0	75' RT	
1	RT Sta.	436+60.0	44' RT	
10.0 TOTAL				

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	REMARKS
2.0	ENTIRE JOB	LOCATION TO BE DETERMINED IN FIELD
2.0 TOTAL		

70300100 SHORT-TERM PAVEMENT MARKING

FOOT	LOCATION			REMARKS
675.0	Sta.	430+25.0 TO	437+00.0	YELLOW CENTERLINE
1350.0	Sta.	430+25.0 TO	437+00.0	2 WHITE EDGE LINES
170.0	Sta.	430+25.0 TO	437+00.0	YELLOW SKIP DASH
2195.0 TOTAL				

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION			REMARKS
223.0	Sta.	430+25.0 TO	437+00.0	YELLOW CENTERLINE
446.0	Sta.	430+25.0 TO	437+00.0	2 WHITE EDGE LINES
56.0	Sta.	430+25.0 TO	437+00.0	YELLOW SKIP DASH
725.0 TOTAL				

78001110 PAINT PAVEMENT MARKING - LINE 4" (TWO COATS)

FOOT	LOCATION			REMARKS
1350.0	Sta.	430+25.0 TO	437+00.0	YELLOW CENTERLINE
2700.0	Sta.	430+25.0 TO	437+00.0	2 WHITE EDGE LINES
340.0	Sta.	430+25.0 TO	437+00.0	YELLOW SKIP DASH
4390.0 TOTAL				

Z0005400 BREAKER-RUN CRUSHED STONE

TON	LOCATION		REMARKS
531.0	Sta.	432+95.0	16 x 175 UNDER CULVERT AND DROP BOX
531.0 TOTAL			

Z0028415 GEOTECHNICAL REINFORCEMENT

SQ YD	LOCATION			REMARKS
380.0	Sta.	432+37.0 TO	433+47.0	UNDER PATCH AND CURB & GUTTER
380.0 TOTAL				

X0322263 CULVERT DROP BOX

EACH	LOCATION		REMARKS
1.0	LT Sta.	432+95.0	10'X27'X4' DROP BOX
1.0 TOTAL			

X0325911 HOT-MIX ASPHALT SURFACE COURSE, SPECIAL

TON	LOCATION	REMARKS
200.0	DETOUR ROUTE	IF NEEDED
200.0 TOTAL		

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		DRAWN -	REVISED -			634	138T	HENRY	42	10
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -							
	PLOT DATE = Wed Jan 23 08:48:08 2008	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 64A77		
						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Chain IL82 contains:
70 71

Beginning chain IL82 description
==========

Point 70 N 1,664,670.31 E 2,291,510.35 Sta 260+78.20

COURSE FROM 70 TO 71 0° 15' 05.53" DIST 21,239.24'

Point 71 N 1,685,909.34 E 2,291,603.59 Sta 473+17.44

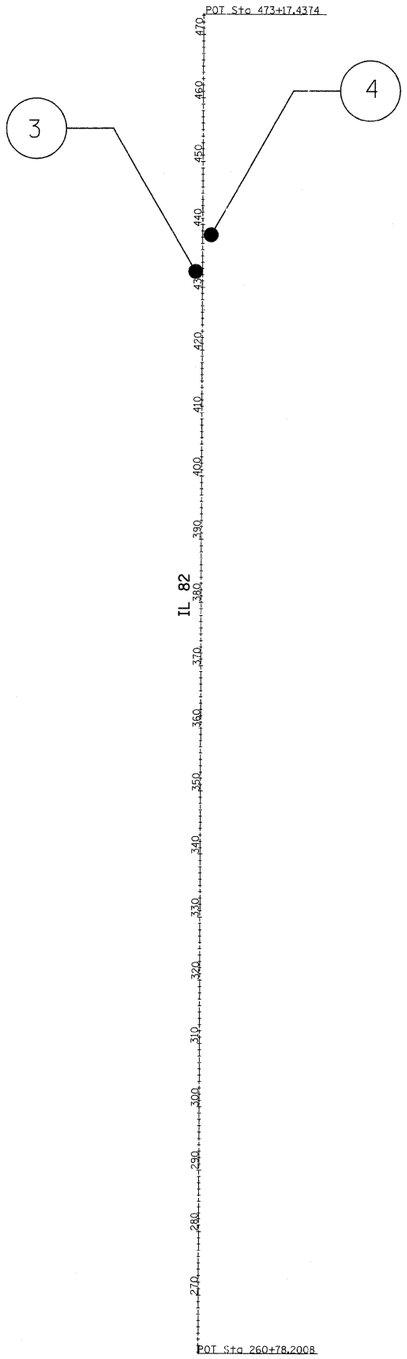
==========
Ending chain IL82 description

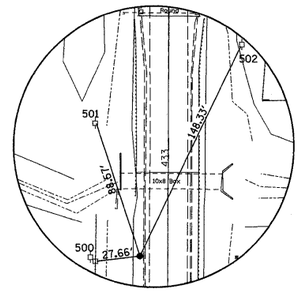
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
3	1681838.8851	2291567.9547	747.4553	I182	432+46.86	17.7688' LT	PIN
4	1682428.9341	2291604.1104	751.5216	I182	438+37.06	15.7962' RT	PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1681890.7433	2291514.2828	732.6862	I182	432+98.48	71.6678' LT	SURVEY POINT
101	1681926.7187	2291176.4029	736.1298	I182	433+32.97	409.7024' LT	SURVEY POINT
102	1682015.5049	2291607.2250	742.2068	I182	434+23.65	20.7257' RT	SURVEY POINT
103	1681975.6828	2291741.6727	734.0207	I182	433+84.42	155.3470' RT	SURVEY POINT
104	1681940.6228	2291903.9644	732.0932	I182	433+50.07	317.7910' RT	SURVEY POINT
105	1681920.4184	2292107.5721	731.0549	I182	433+30.76	521.4855' RT	SURVEY POINT
106	1681966.0230	2292296.6718	731.5388	I182	433+77.20	710.3831' RT	SURVEY POINT
107	1681959.0620	2292495.0268	729.7371	I182	433+71.11	908.7668' RT	SURVEY POINT
108	1681967.1827	2292711.8814	728.6854	I182	433+80.18	1125.5836' RT	SURVEY POINT
109	1681482.0203	2291485.6276	782.1580	I182	428+89.64	98.5284' LT	SURVEY POINT

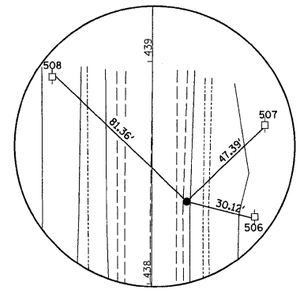
BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1681973.2513	2291631.6797	737.3018	I182	433+81.51	45.3657' RT	R.R SPIKE IN POWER POLE
401	1682161.8169	2291542.9225	742.7562	I182	435+69.68	44.2185' LT	R.R SPIKE IN POWER POLE

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	I182	432+43.39	45.2084' LT	SHINER IN POWER POLE
501	I182	433+30.76	46.1364' LT	SHINER IN POWER POLE
502	I182	433+80.80	45.9707' RT	SHINER IN POWER POLE
506	I182	438+29.79	45.0237' RT	SHINER IN POWER POLE
507	I182	438+69.98	49.8842' RT	SHINER IN POWER POLE
508	I182	438+92.88	43.3937' LT	SHINER IN POWER POLE





HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4

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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

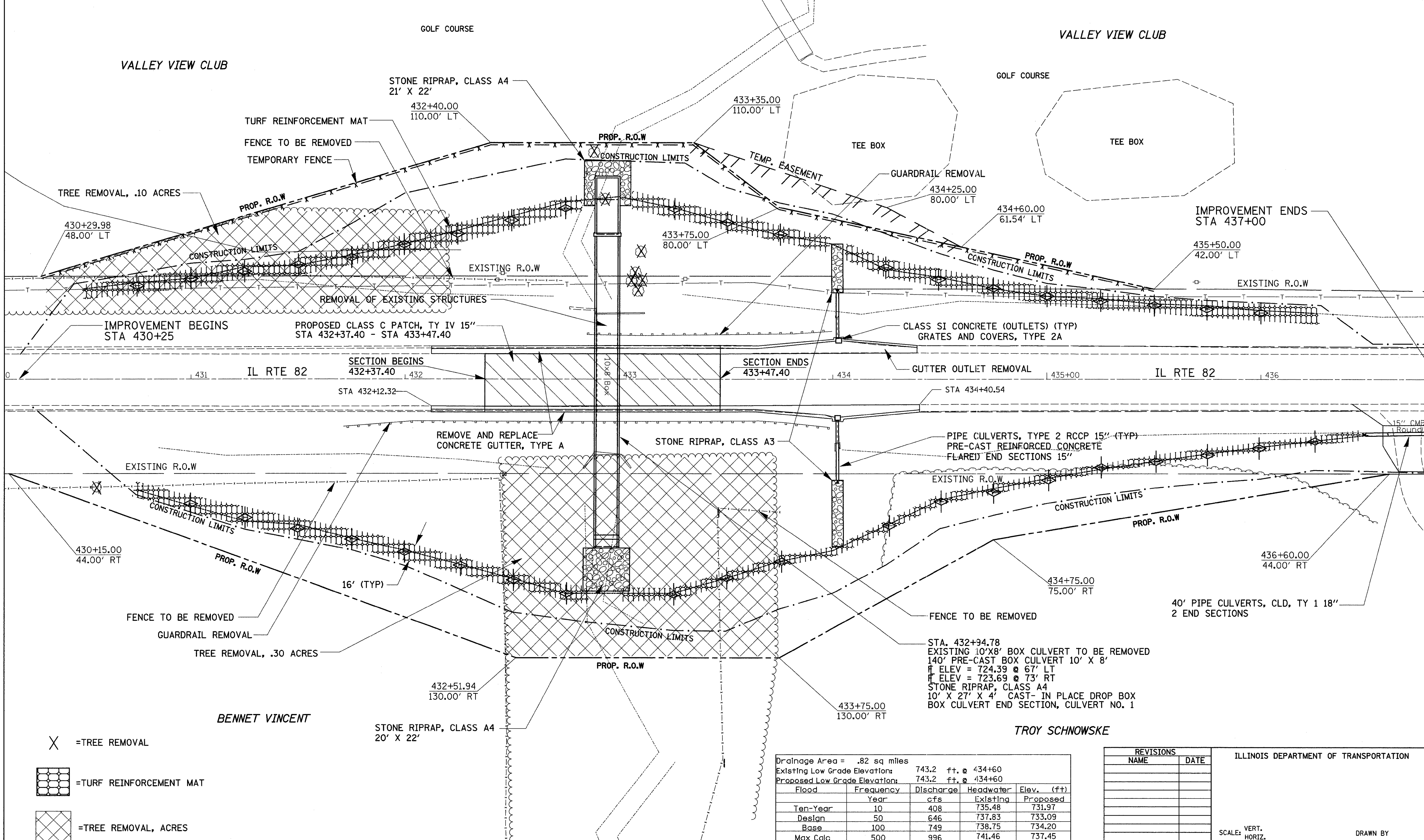
HORIZONTAL & VERTICAL CONTROL

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	11
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 64A77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



Z
GOLF COURSE
VALLEY VIEW CLUB
VALLEY VIEW CLUB
GOLF COURSE
TEE BOX
TEE BOX
STONE RIPRAP, CLASS A4
21' X 22'
432+40.00
110.00' LT
433+35.00
110.00' LT
TURF REINFORCEMENT MAT
FENCE TO BE REMOVED
TEMPORARY FENCE
PROP. R.O.W
CONSTRUCTION LIMITS
TEMP. EASEMENT
GUARDRAIL REMOVAL
434+25.00
80.00' LT
434+60.00
61.54' LT
IMPROVEMENT ENDS
STA 437+00
TREE REMOVAL, .10 ACRES
430+29.98
48.00' LT
433+75.00
80.00' LT
435+50.00
42.00' LT
EXISTING R.O.W
REMOVAL OF EXISTING STRUCTURES
IMPROVEMENT BEGINS
STA 430+25
PROPOSED CLASS C PATCH, TY IV 15"
STA 432+37.40 - STA 433+47.40
CLASS SI CONCRETE (OUTLETS) (TYP)
GRATES AND COVERS, TYPE 2A
SECTION BEGINS
432+37.40
SECTION ENDS
433+47.40
GUTTER OUTLET REMOVAL
IL RTE 82
IL RTE 82
431
432
433
434
435+00
436
10'x8' Box
STA 432+12.32
STA 434+40.54
REMOVE AND REPLACE
CONCRETE GUTTER, TYPE A
STONE RIPRAP, CLASS A3
PIPE CULVERTS, TYPE 2 RCCP 15" (TYP)
PRE-CAST REINFORCED CONCRETE
FLARED END SECTIONS 15"
15" CMP Round
EXISTING R.O.W
430+15.00
44.00' RT
16' (TYP)
434+75.00
75.00' RT
436+60.00
44.00' RT
40' PIPE CULVERTS, CLD, TY 1 18"
2 END SECTIONS
FENCE TO BE REMOVED
GUARDRAIL REMOVAL
TREE REMOVAL, .30 ACRES
FENCE TO BE REMOVED
STA. 432+94.78
EXISTING 10'X8' BOX CULVERT TO BE REMOVED
140' PRE-CAST BOX CULVERT 10' X 8'
℄ ELEV = 724.39 @ 67' LT
℄ ELEV = 723.69 @ 73' RT
STONE RIPRAP, CLASS A4
10' X 27' X 4' CAST- IN PLACE DROP BOX
BOX CULVERT END SECTION, CULVERT NO. 1
432+51.94
130.00' RT
433+75.00
130.00' RT
BENNET VINCENT
TROY SCHNOWSKE
STONE RIPRAP, CLASS A4
20' X 22'
X =TREE REMOVAL
=TURF REINFORCEMENT MAT
=TREE REMOVAL, ACRES

Drainage Area = .82 sq miles
Existing Low Grade Elevation: 743.2 ft. @ 434+60
Proposed Low Grade Elevation: 743.2 ft. @ 434+60

Flood	Frequency Year	Discharge cfs	Headwater Existing	Elev. (ft) Proposed
Ten-Year	10	408	735.48	731.97
Design	50	646	737.83	733.09
Base	100	749	738.75	734.20
Max Calc	500	996	741.46	737.45

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

IL 82 BOX CULVERT

PLOT DATE = Wed Jan 23 08:50:44 2008
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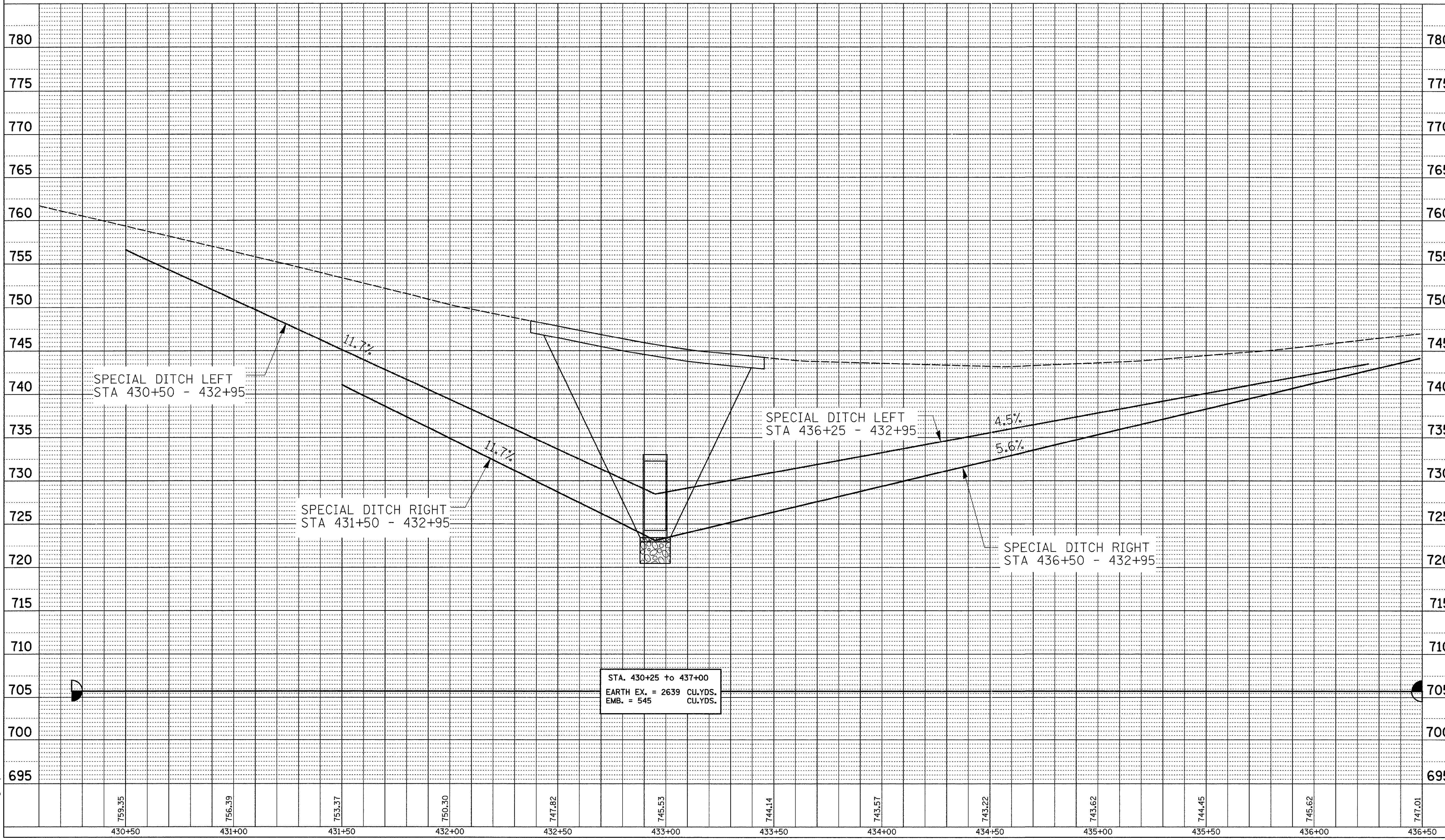
PLOT SCALE = 21.1765 ' / IN.
USER NAME = grantpm

CONTRACT NO. 64A77

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138 T	HENRY	42	13
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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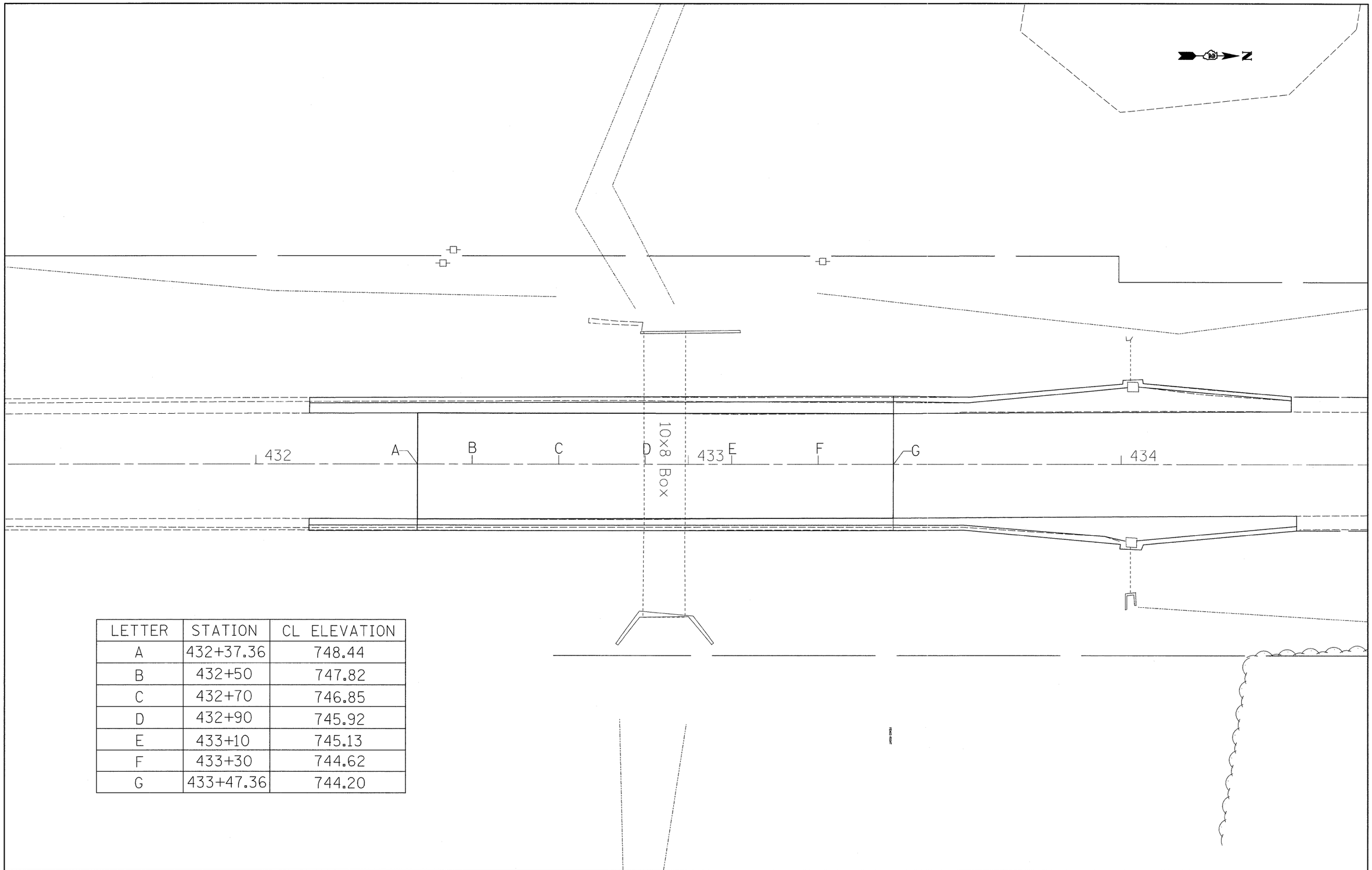
USER NAME = grantpm

IL 82 BOX CULVERT



LETTER	STATION	CL ELEVATION
A	432+37.36	748.44
B	432+50	747.82
C	432+70	746.85
D	432+90	745.92
E	433+10	745.13
F	433+30	744.62
G	433+47.36	744.20

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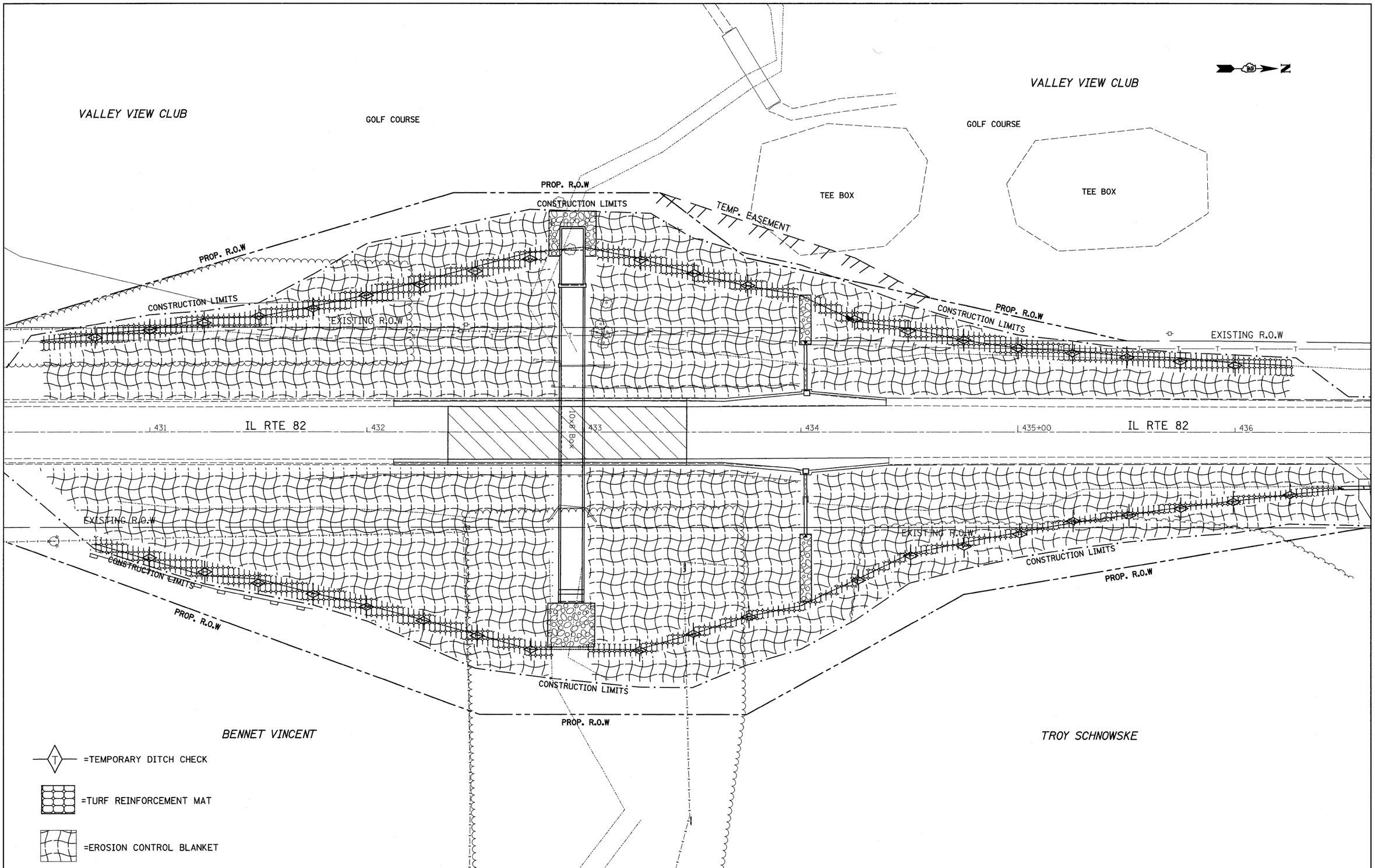
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT ELEVATIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	14
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL

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

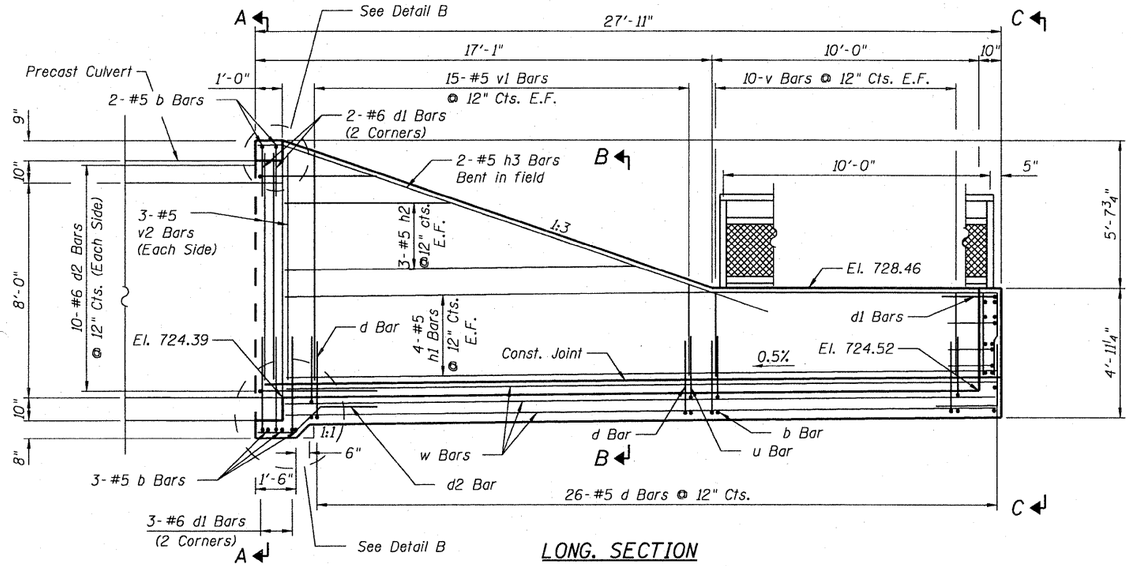
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	15
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

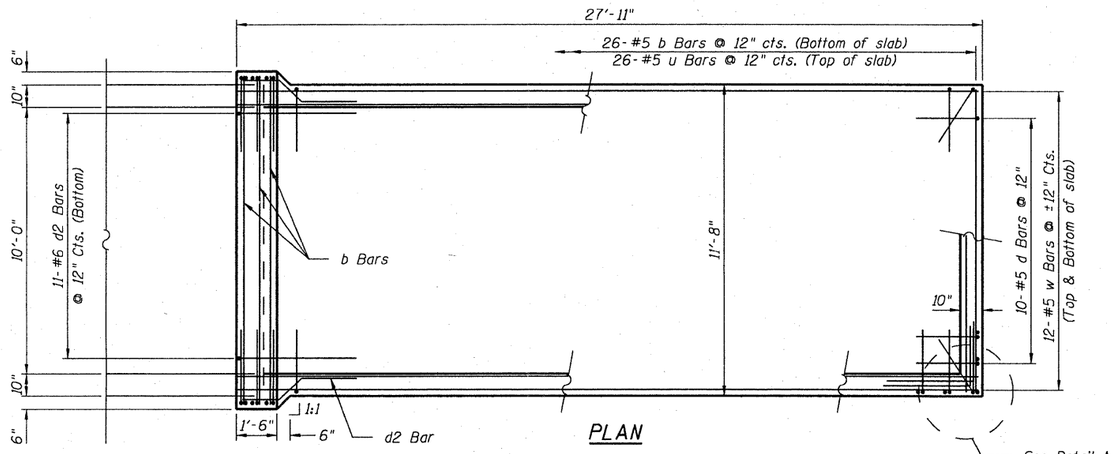
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 634	138T	HENRY	42	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
2 SHEETS

Contract #64A77



LONG. SECTION



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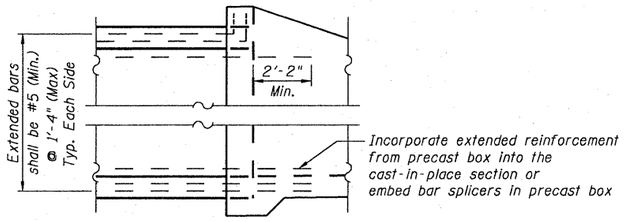
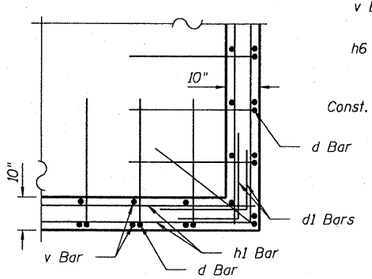


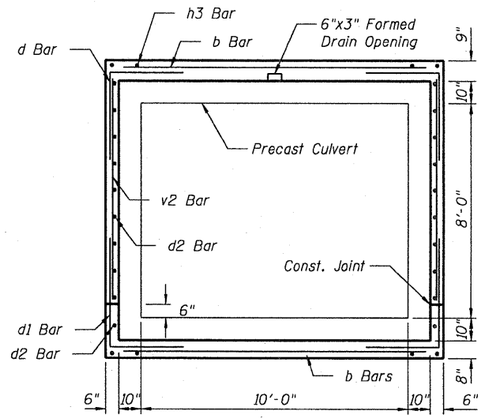
DETAIL B

Cast-in-place reinforcement not shown for clarity

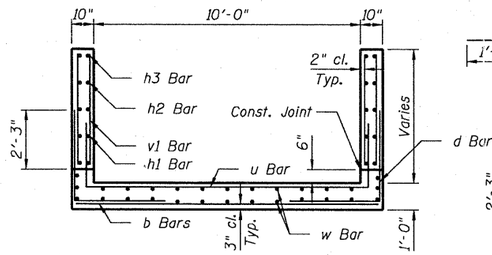


DETAIL A

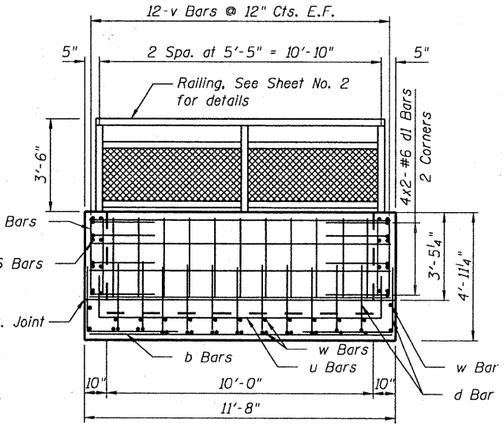
u bars and slab reinforcement not shown for clarity



SECTION A-A



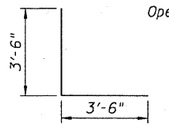
SECTION B-B



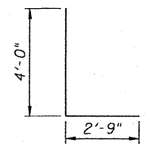
VIEW C-C

DESIGN STRESSES

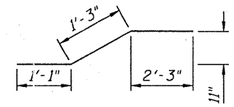
fy = 60,000 psi
f'c = 3,500 psi



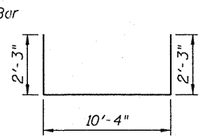
d BAR



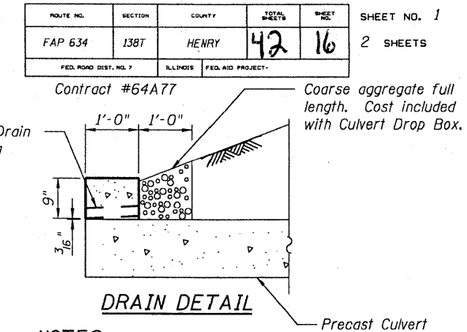
d1 BAR



d2 BAR



u BAR



DRAIN DETAIL

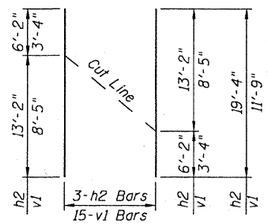
NOTES:

1. Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
2. See plan and profile sheet for more information. See cross section sheet for more information.
3. Exposed edges shall be beveled ¾".
4. All construction joints shall be bonded.
5. The cast-in-place drop box shall be attached to the precast portion. The reinforcement shall be extended out of the last precast section and incorporated into the cast-in-place section or rebar splicers shall be embedded in the precast section. See detail B.
6. The contract unit price for Culvert Drop Box shall include reinforcement, concrete, rebar splicers, earth excavation, and necessary grading as shown in the cross sections or to the slope.
7. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
8. Clear cover is 2" typical, 3" at the bottom of bottom slab.
9. See Sheet No. 2 for railing details.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
b	31	# 5	11' - 4"	——
d	62	# 5	7' - 0"	⌟
d1	26	# 6	6' - 9"	⌟
d2	31	# 6	4' - 7"	⌐
h1	16	# 5	26' - 7"	——
h2	6	# 5	19' - 4"	——
h3	4	# 5	20' - 0"	——
v	64	# 5	3' - 1"	——
v1	30	# 5	11' - 9"	——
v2	6	# 5	8' - 5"	——
u	26	# 5	14' - 10"	⌊⌋
w	24	# 5	26' - 7"	——
* Reinforcement Bars, Epoxy Coated			Lb	3,640
* Structure Excavation			Cu. Yd.	104.0
* Concrete Structures			Cu. Yd.	23.2
Culvert Drop Box			Each	1
Steel Railing			Foot	28.3

* For Information Only



CUT DIAGRAM

STATE OF ILLINOIS
LICENSED STRUCTURAL ENGINEER
EWA K. MROSZEK
081-006057

DATE: 1/18/2008
SEAL EXPIRES: 11/30/2009

DESIGNED	- EKM
CHECKED	- SCD
DRAWN	- AL
CHECKED	- EKM

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

1/18/2008
N:\PROJ\3317\3317.05\Design\Structural\CAD\d03317spillbox1.dgn
rdenley

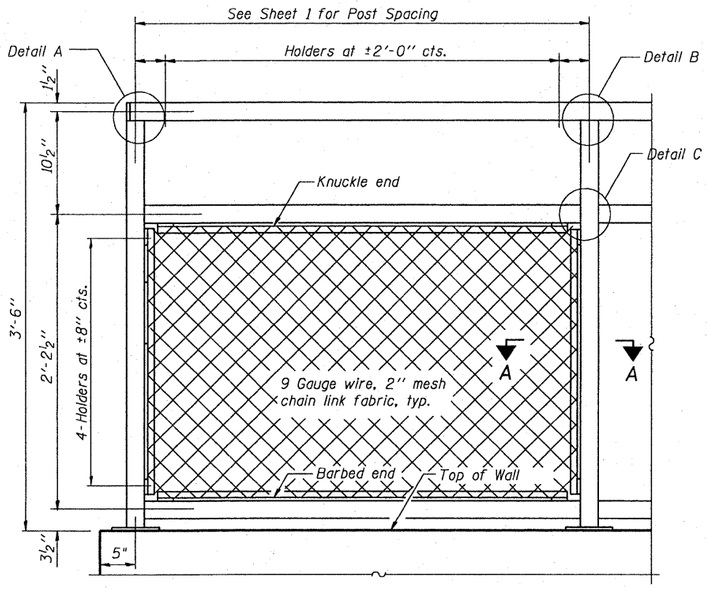
10FT x 10FT DROP BOX
F.A.P. 634 (ILLINOIS 82)
SECTION 138T
HENRY COUNTY
STATION 432+94.78
S.N. 037-1182

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

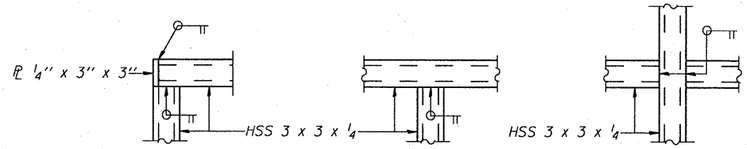
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 634	138T	HENRY	42	16A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
2 SHEETS

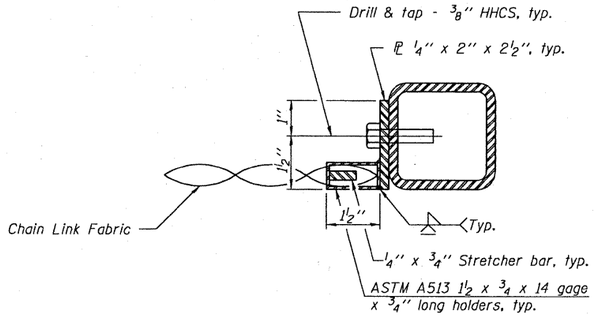
Contract #64A77



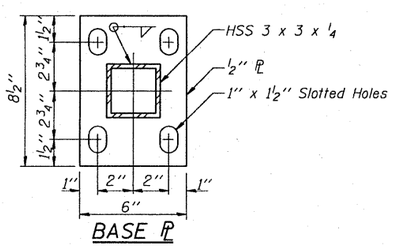
RAILING



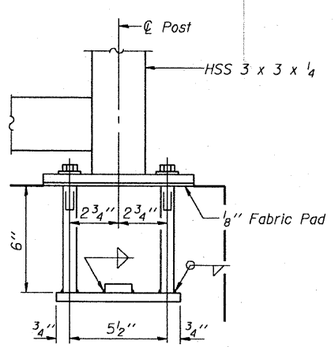
DETAIL A DETAIL B DETAIL C

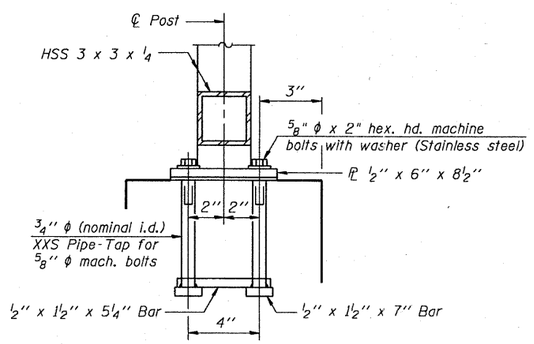


SECTION A-A



BASE ℄





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
2. All handrail dimensions shall be verified by Contractor prior to fabrication, based upon final location of mounting bolts.
3. Handrail shall conform to Section 509 with the exception that all tubes and connections shall be welded galvanized or aluminum according to Article 1006.27, 1006.30, or 1006.34.
4. Hand and safety rails shall not rotate within their fittings.
5. The contract unit price for Steel Railing shall include railing, chain link fence, anchor rods, anchor bolts, bolts, nuts, washers, and steel base plates.

9-3-07 (10'-0" Maximum Post Spacing)

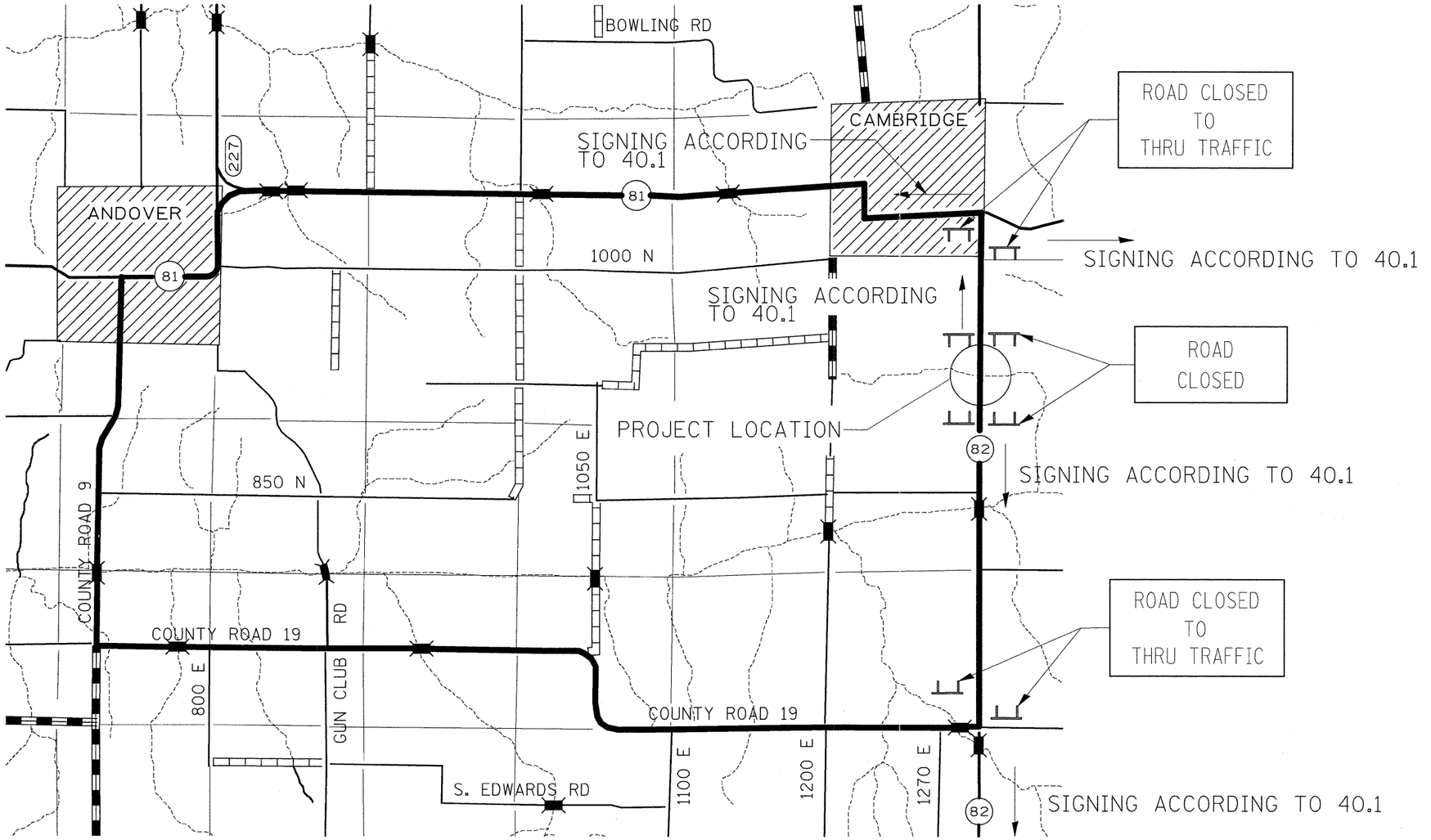
DESIGNED	- EKM
CHECKED	- SCD
DRAWN	- AL
CHECKED	- EKM

R-29

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

RAILING
F.A.P. 634 (ILLINOIS 82)
SECTION 138T
HENRY COUNTY
STATION 432+94.78
S.N. 037-1182

1/18/2008 rdenley
N:\PROJ\3317\3317.05\Design\Structural\CADD\d03317spilraildgn



Signing and Devices---Contractor
Detour---State

TRAFFIC FROM SOUTH

All traffic will go west on County Route 19 to County Route 9, at which point they will head north to IL 81 in Andover. In Andover, they will turn and head east back towards Cambridge on IL 81.

TRAFFIC FROM NORTH

All traffic will go west on IL 81 into Andover til County Route 9 and then turn south on County Route 9 til County Route 19. at that point they will turn on County Route 19 and head east towards IL 82.

FILE NAME = c:\projects\p203705\d03705spl.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.2000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Jan 23 08:54:30 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	17
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING LOGS

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

SOIL BORING LOG

Page 1 of 1

Date 1/10/05

ROUTE FAP 634 DESCRIPTION P-92-037-05 Box Culvert, IL 82 over a creek 1.0 mile south of Cambridge LOGGED BY W. Garza

SECTION 138 T LOCATION Cambridge Twp. - 17 SW, SEC. , TWP. 15N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.
Station 624+96

BORING NO. B-1
Station 624+88
Offset 18.00ft Rt CL
Ground Surface Elev. 99.50 ft

Surface Water Elev. 78.00 ft
Stream Bed Elev. 77.00 ft

Groundwater Elev.:
First Encounter 80.0 ft
Upon Completion 78.5 ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				MEDIUM brown SILTY CLAY LOAM
		0.8	22.0	
97.50		P		
	3			STIFF brown tan CLAY LOAM
	4	2.0	23.0	
96.00	5	P		
-5	2			STIFF brown SILTY CLAY LOAM
	3	1.2	22.0	
93.50	9	B		
	2			STIFF brown SILTY CLAY LOAM
	2	1.3	19.0	
91.00	3	P		
-10	1			MEDIUM brown SILTY CLAY LOAM
	1	0.6	22.0	
88.50	3	B		
	2			STIFF gray SILTY LOAM
	3	1.1	23.0	
86.00	4	P		
-15	1			STIFF brown SILTY CLAY LOAM
	3	1.0	24.0	
83.50	5	B		
	2			STIFF gray SILTY CLAY TILL with SAND lens
	2	1.2	20.0	
81.00	4	B		
-20	1			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	1	0.3	38.0	SOFT gray SANDY LOAM with ORGANICS (continued)
	2	B		
78.00				
	2			LOOSE/MEDIUM tan/gray dirty SAND & GRAVEL, wet
	3			
76.00	7			
-25	9			MEDIUM gray dirty medium SAND, wet
	8			
73.50	8			
	10			MEDIUM olive-green well cemented fine SAND
	11			
71.00	17			
-30	52			VERY DENSE Same as above
	100/6.5"			
68.50				End of Boring
-35				
-40				

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

BBS, from 137 (Rev. 8-99)

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

SOIL BORING LOG

Page 1 of 1

Date 1/10/05

ROUTE FAP 634 DESCRIPTION P-92-037-05 Box culvert, IL 82 over a creek south of Cambridge north of N850 LOGGED BY W. Garza

SECTION 138 T LOCATION Cambridge Twp. - 17 SW, SEC. , TWP. 15N, RNG. 3E

COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.
Station 624+96

BORING NO. B-2
Station 645+13
Offset 16.00ft Lt CL
Ground Surface Elev. 100.70 ft

Surface Water Elev. 78.00 ft
Stream Bed Elev. 77.00 ft

Groundwater Elev.:
First Encounter 76.2 ft
Upon Completion 81.2 ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				SOFT brown SILTY CLAY LOAM
		0.3	22.0	
98.70		P		
	2			STIFF gray SILTY CLAY
	2	1.1	24.0	
97.20	4	B		
-5	1			MEDIUM gray/tan SILTY CLAY LOAM
	2	0.8	23.0	
94.70	3	B		
	2			SOFT brown SILTY CLAY LOAM
	2	0.3	25.0	
92.20	3	P		
-10	1			SOFT medium tan SILTY LOAM
	2	0.5	24.0	
89.70	2	P		
	1			SOFT tan/brown SILTY CLAY LOAM with SAND lens
	2	0.3	28.0	
87.20	2	P		
-15	2			STIFF dark gray SILTY CLAY
	2	1.0	29.0	
84.70	3	B		
	1			SOFT tan/gray SILTY CLAY with ORGANICS
	1	0.3	27.0	
82.20	3	P		
-20	1			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	2	1.1	25.0	STIFF gray SANDY LOAM with ORGANICS (continued)
	3	B		
79.20				
	1			VERY LOOSE gray wet dirty SAND with 81% ORGANICS
	1		455.0	
77.20	3			
-25	2			SOFT gray dirty medium SAND with SILTY LOAM lens
	2	0.3	25.0	
74.70	3	P		
	5			MEDIUM gray/olive green well cemented SAND
	7			
72.20	10			
-30	20			VERY DENSE Same as above
	100/11"			
69.70				End of Boring
-35				
-40				

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

BBS, from 137 (Rev. 8-99)

FILE NAME = c:\projects\p203705\d037051logs.dgn	USER NAME = gramtpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 65.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Jan 23 08:53:41 2008	DATE -	REVISED -

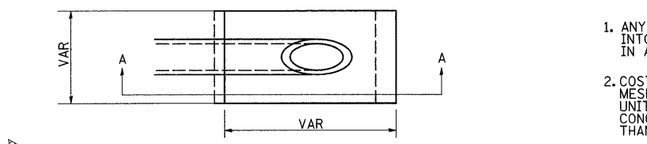
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

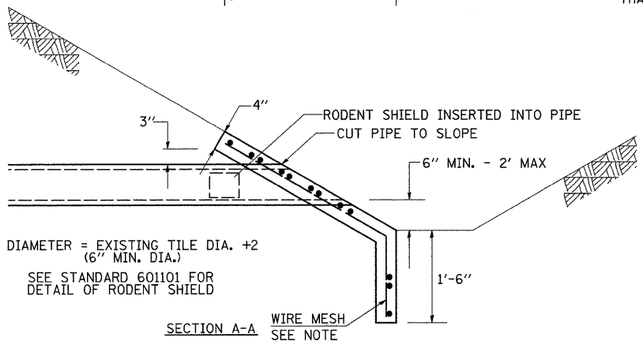
BORING LOGS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	18
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

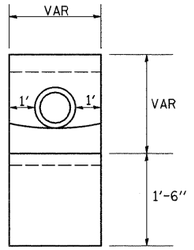
SLOPE WALL FOR FIELD TILE OUTLETS





NOTES

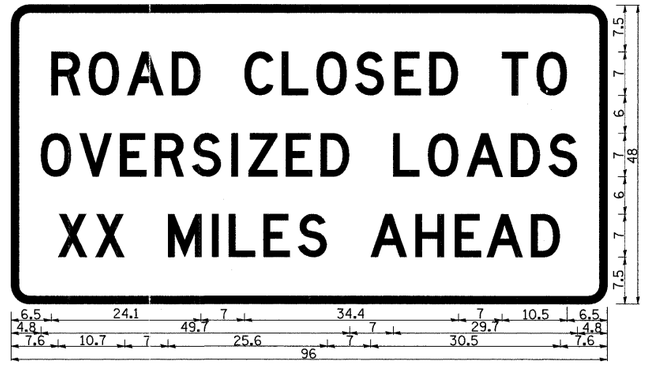
1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



REVISED - 1-24-07

SLOPE WALL FOR FIELD TILE OUTLETS 28.4

ROAD CLOSED TO OVERSIZED LOADS



Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border, Black on Orange; [ROAD CLOSED TO] D; [OVERSIZED LOADS] D; [XX MILES AHEAD] D;
Table of letter and object lefts.

R 6.5	O 12.5	A 18.7	D 25.9	C 37.6	L 43.6	O 49.2	S 55.4	E 61.8	D 67.3	T 79.0	O 84.6			
O 4.8	V 11.0	E 17.6	R 23.1	S 29.2	I 35.5	Z 38.2	E 44.3	D 49.8	L 61.5	O 67.1	A 73.3	D 80.5	S 86.5	
X 7.6	X 13.6	M 25.3	I 32.3	L 35.1	E 40.6	S 46.2	A 57.9	H 65.1	E 71.4	A 76.6	D 83.7			

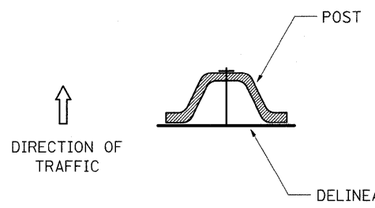
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

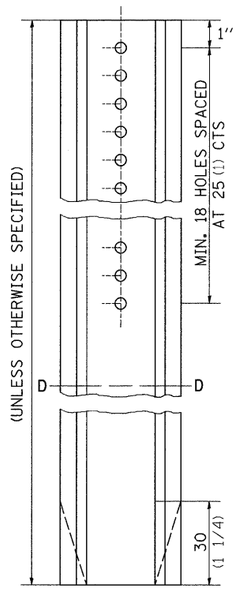
REVISED - 1-9-08

ROAD CLOSED TO OVERSIZED LOADS 40.4

DELINEATOR AND POST ORIENTATION



SECTION D-D



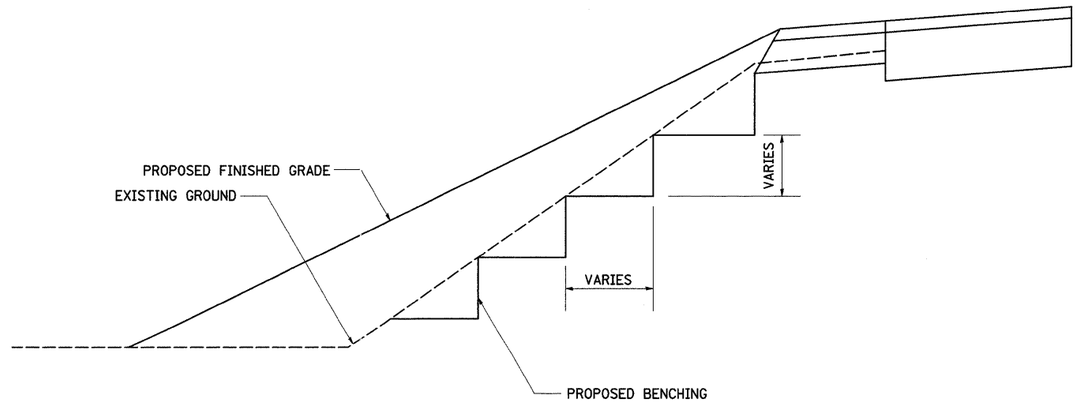
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

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

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED -	REGION 2 / DISTRICT 2 STANDARD				
REVISED -					
REVISED -					
REVISED -	SCALE: 5.0000 ' / IN.	SHEET NO. OF SHEETS	STA.	TO STA.	

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	19
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Wed Jan 23 08:56:07 2008

LETTERING FOR NAME PLATE

STATION
BUILT 200 BY
STATE OF ILLINOIS
RTE. SEC.
FA PROJECT
LOADING HS 20
STR. NO.

SEE STD. 515001

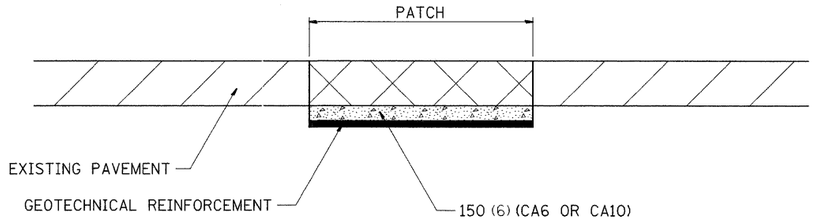
STATION	STRUCTURE NO.
432+94.78	PROP SN# 037-1182

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

REVISED - 11-01-07

LETTERING FOR NAME PLATE 89.4

SUBGRADE REPLACEMENT



NOTES:

THE CA 6 OR CA 10 SHALL BE COMPACTED IN A MANNER APPROVED BY THE ENGINEER. IF THE MOISTURE CONTENT OF THE MATERIAL IS SUCH THAT COMPACTION SATISFACTORY TO THE ENGINEER CANNOT BE OBTAINED, SUFFICIENT WATER SHALL BE ADDED SO THAT SATISFACTORY COMPACTION CAN BE OBTAINED.

THE CA 6 OR CA 10 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU YD FOR GRANULAR SUBGRADE REPLACEMENT

THE GEOTECHNICAL REINFORCEMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ YD FOR GEOTECHNICAL REINFORCEMENT

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

REVISED - 1-09-08

SUBGRADE REPLACEMENT 97.4

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2006514	Quercus Bicolor	Swamp White Oak	1 3/4" Caliper Balled and Burlapped	Each	20
C2001748	Cornus Sericea Cardinal	Cardinal Redosier Dogwood	4 Feet Height Balled and Burlapped	Each	30

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

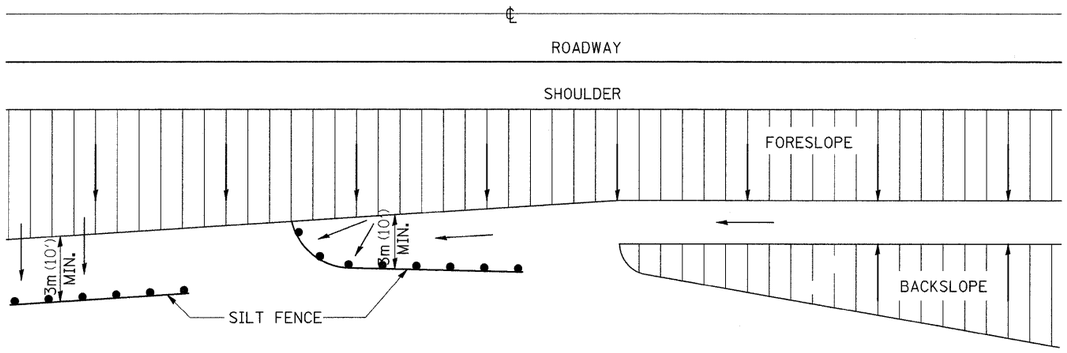
REVISED - 8-10-05

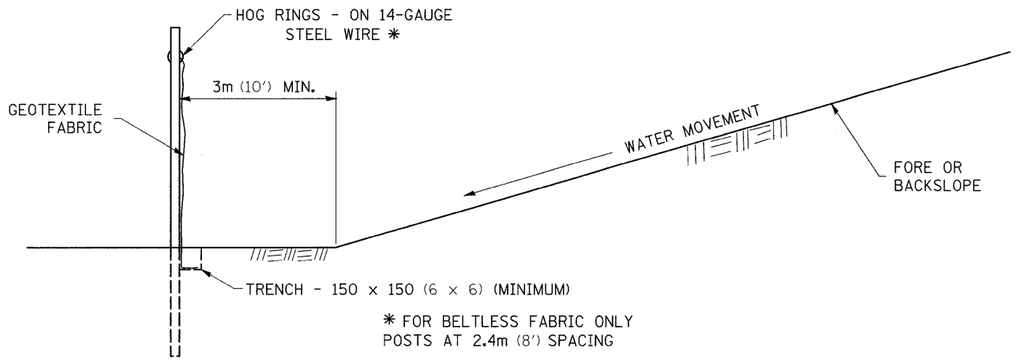
TREE REPLACEMENT SCHEDULE 90.4

REVISED -	**REGION 2 / DISTRICT 2 STANDARD**		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			634	138T	HENRY	42	20
REVISED -					CONTRACT NO. 64A77		
REVISED -	SCALE: 5.0000 '/ IN.	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Wed Jan 23 08:56:07 2008

EROSION CONTROL DETAILS FOR SILT FENCE





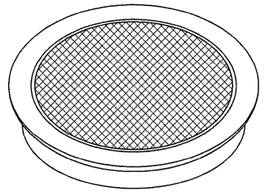
DETAILS OF SILT FENCE

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

REVISED - 10-22-01

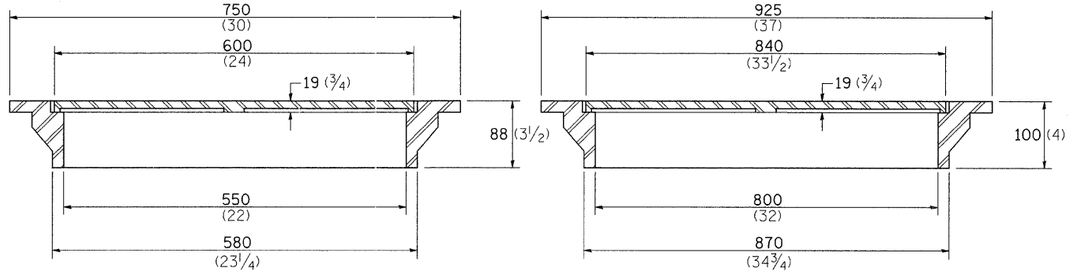
EROSION CONTROL DETAILS FOR SILT FENCE 29.2

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



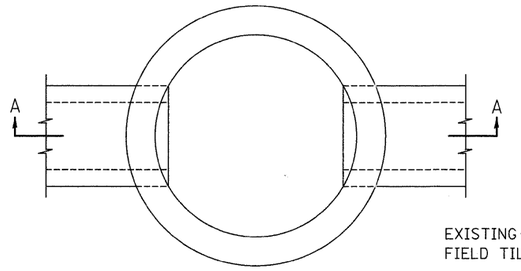
FRAME & LID FOR 600 (24) VAULT

FRAME & LID FOR 900 (36) VAULT

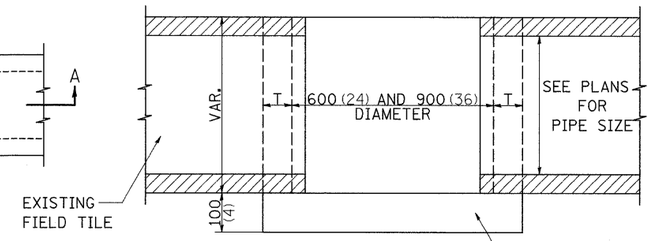


TOTAL WEIGHT: 66 Kg (146 lbs)

TOTAL WEIGHT: 127 Kg (280 lbs)



PLAN

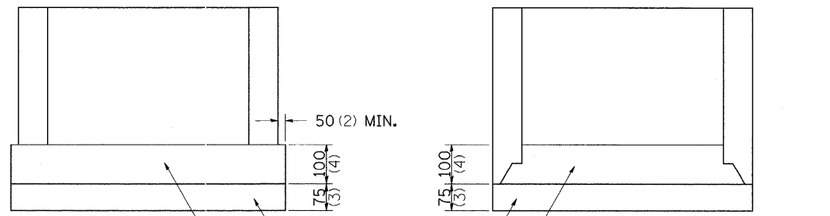


SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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



ALTERNATE METHODS

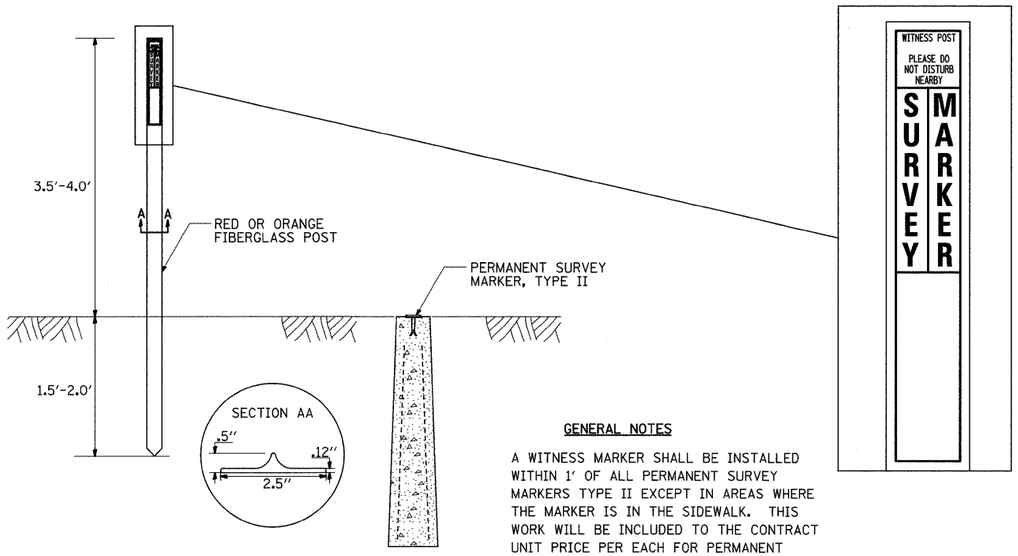
REVISED - 5-03-94

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -		634	138T	HENRY	42 / 21
REVISED -				CONTRACT NO. 64A77	
REVISED -	SCALE: 5.0000 ' / IN. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

PLOT DATE = Wed Jan 23 08:56:07 2008

FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA. 30.2

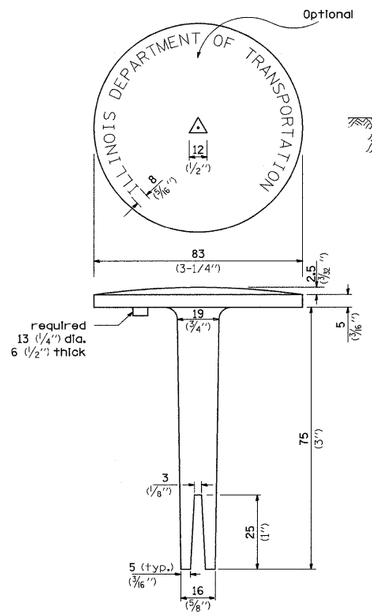
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



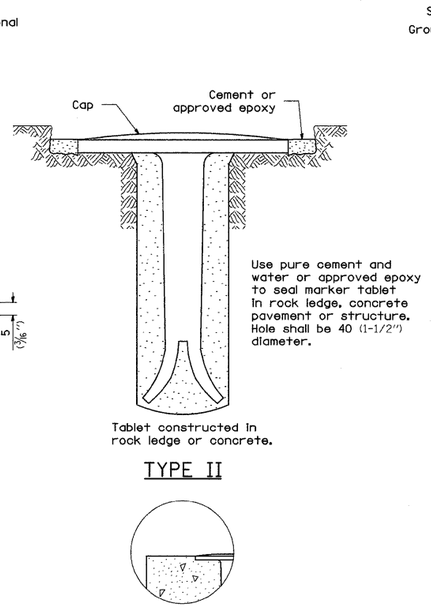
GENERAL NOTES

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

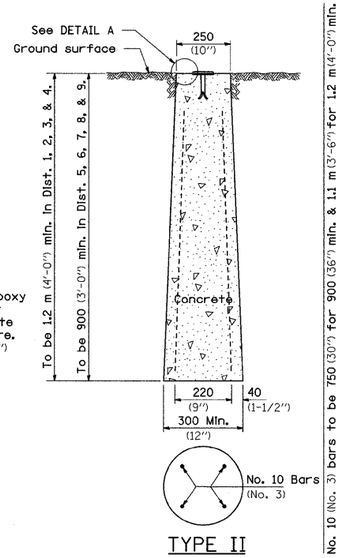


BRASS OR ALUMINUM TABLET



TYPE II

DETAIL A



TYPE II

CAST-IN-PLACE MARKER

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

REVISED - 6-26-06

WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

REVISED -	REGION 2 / DISTRICT 2 STANDARD		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			634	138T	HENRY	42	22
REVISED -					CONTRACT NO.		
REVISED -	SCALE: 5.0000 ' / IN.	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = Wed Jan 23 08:56:07 2008

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 REMOVAL AND REPLACEMENT OF BOX CULVERT, PATCH, AND DITCH WORK.

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) 2.06 ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA) 1.08 ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.69 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
TRIBUTARY TO THE EDWARDS RIVER

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 RESEEDED.

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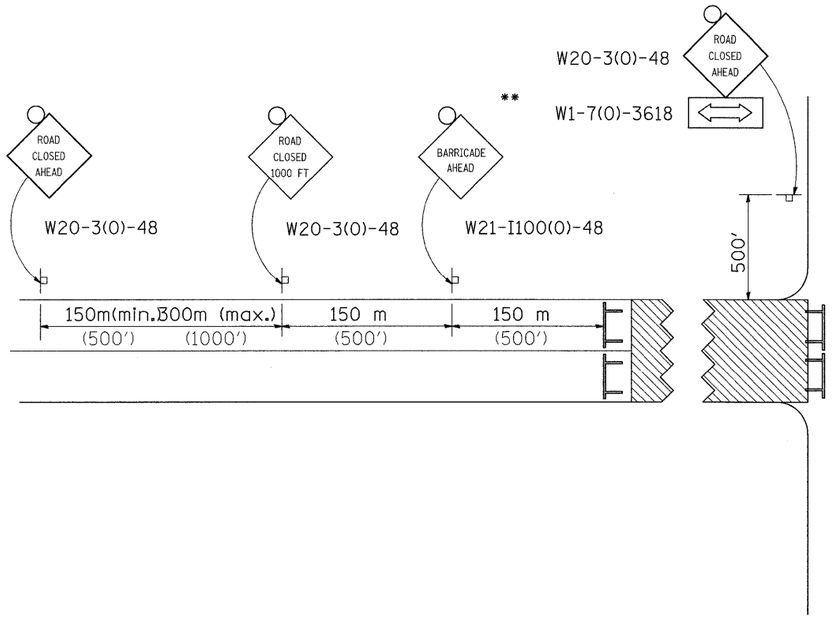
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

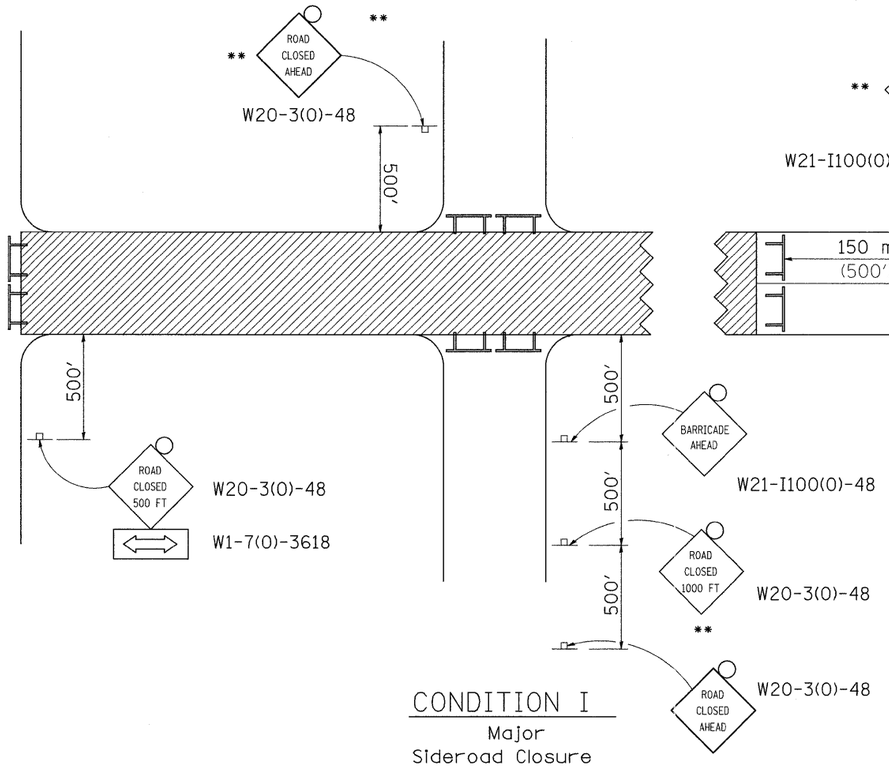
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	23
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

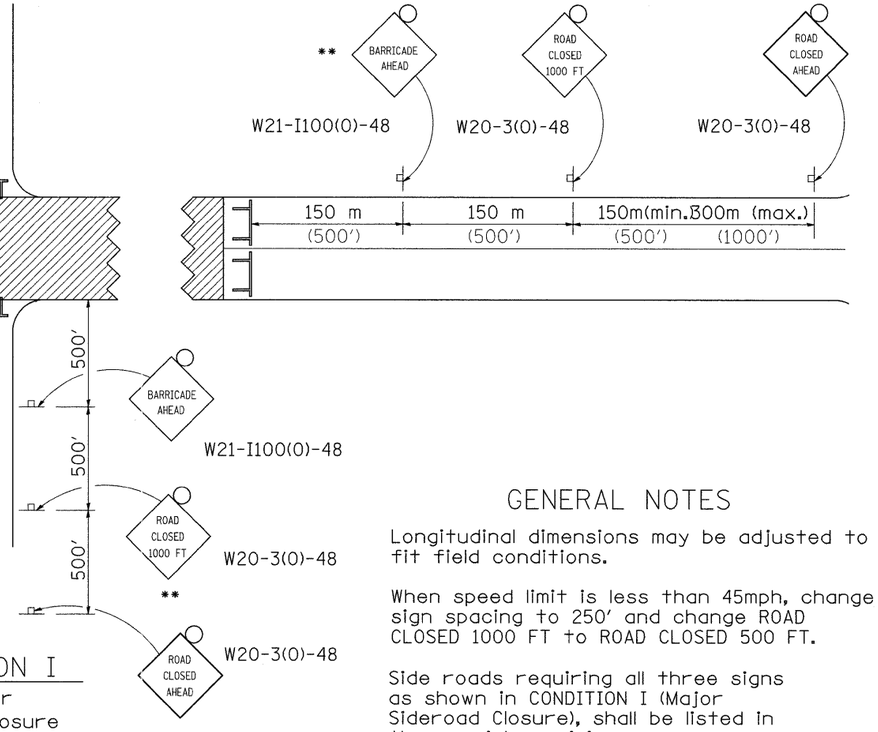
TRAFFIC CONTROL FOR ROAD CLOSURE



CONDITION II

Minor
Sideroad Closure

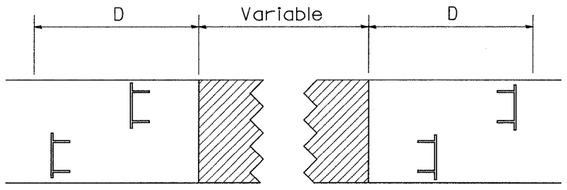




CONDITION I

Major
Sideroad Closure

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



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

SYMBOLS

Work area

Type III Barricade with Flashers

Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

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

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

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

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

TYPICAL APPLICATION FOR ROAD CLOSURE

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		DRAWN -	REVISED -
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	PLOT DATE = Wed Jan 23 08:56:09 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

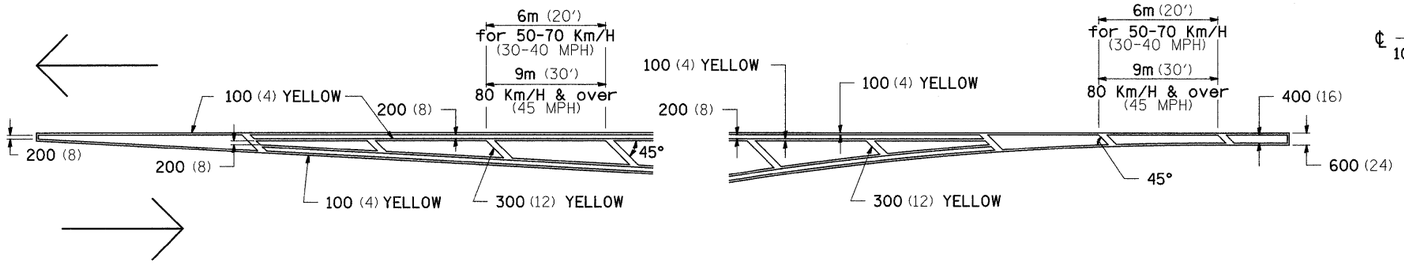
REGION 2 / DISTRICT 2 STANDARD

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

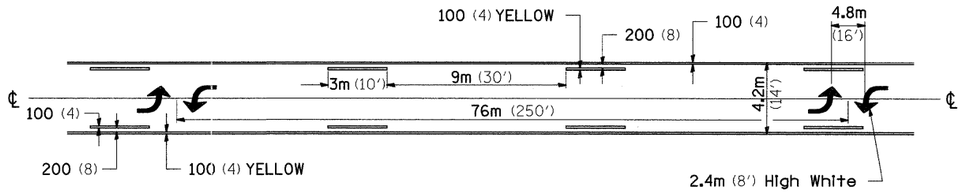
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	24
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

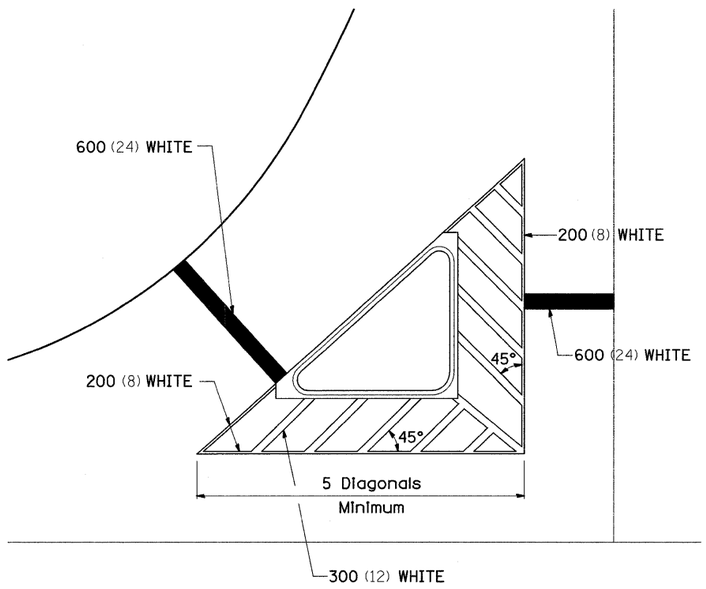


MEDIAN PAVEMENT MARKING

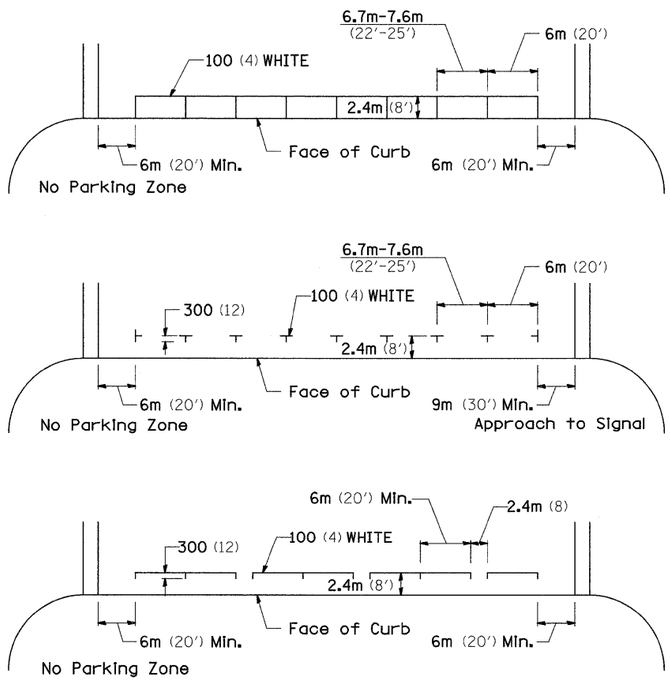


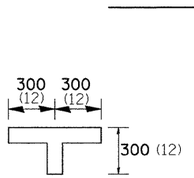
** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



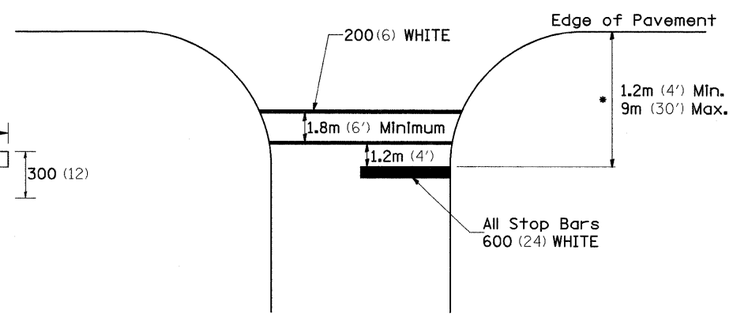
TYPICAL PARKING SPACING





STANDARD CROSSWALK MARKING

See Schedules for Locations



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

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	PLOT DATE = Wed Jan 23 08:56:09 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

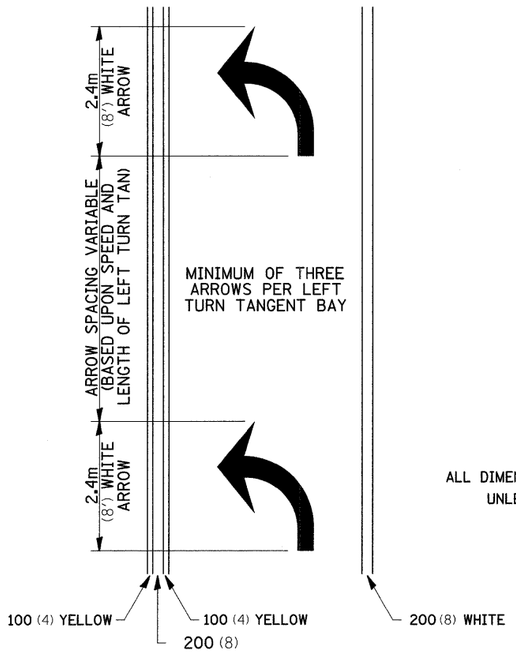
REGION 2 / DISTRICT 2 STANDARD

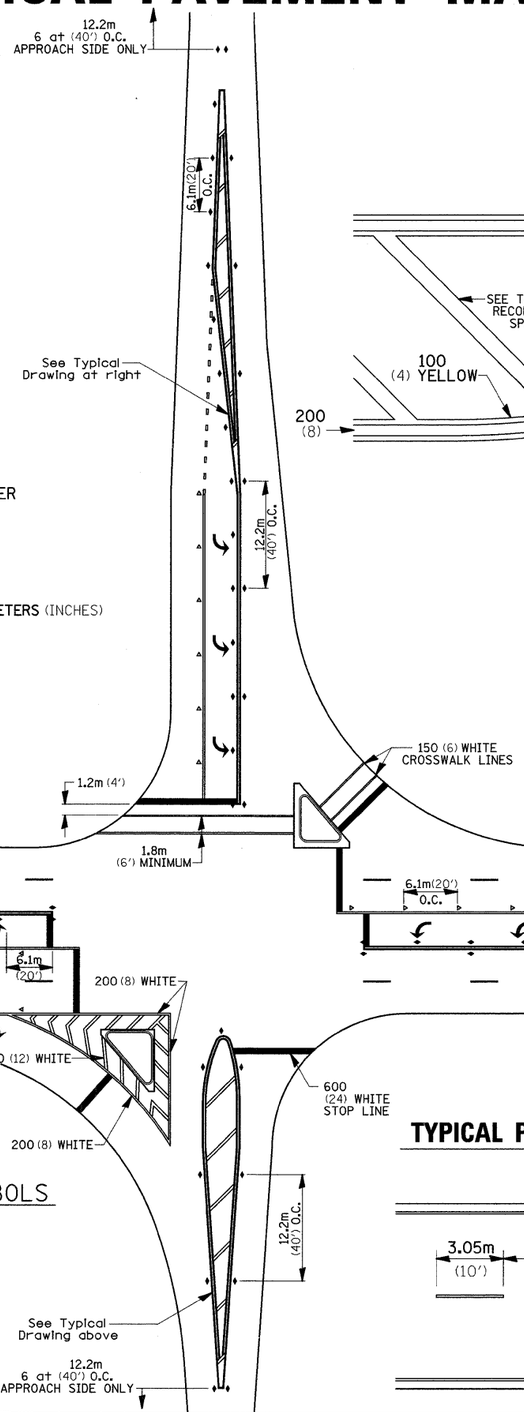
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	25
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT





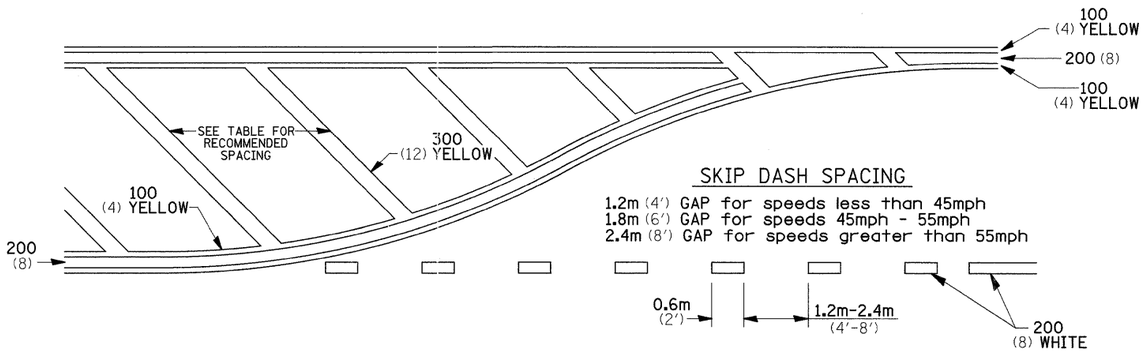
◀ ONE-WAY AMBER MARKER

◁ ONE-WAY CRYSTAL MARKER

◆ TWO-WAY AMBER MARKER

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

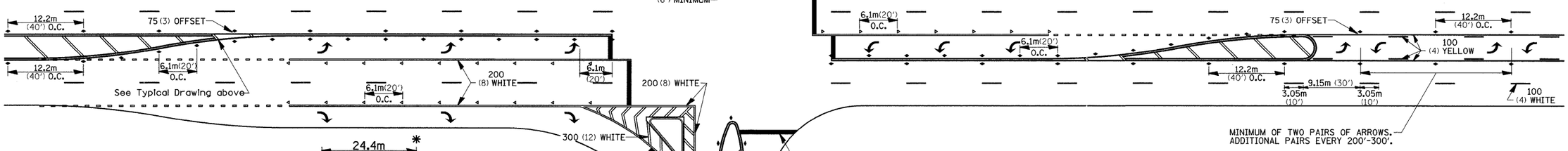
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN

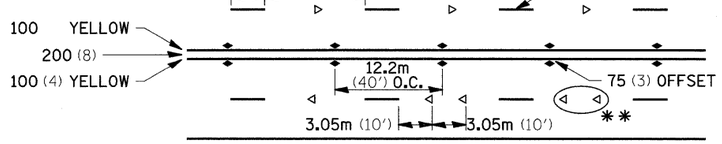


RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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





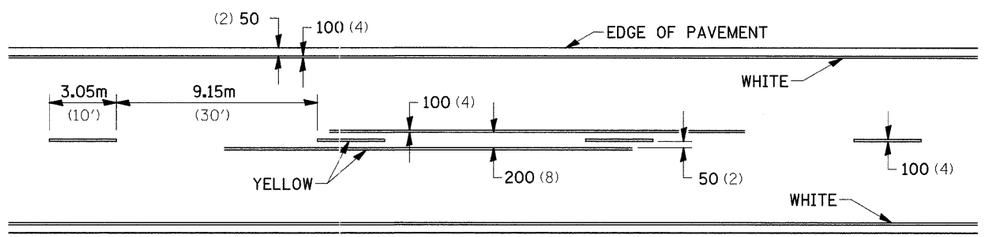
* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

SYMBOLS

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



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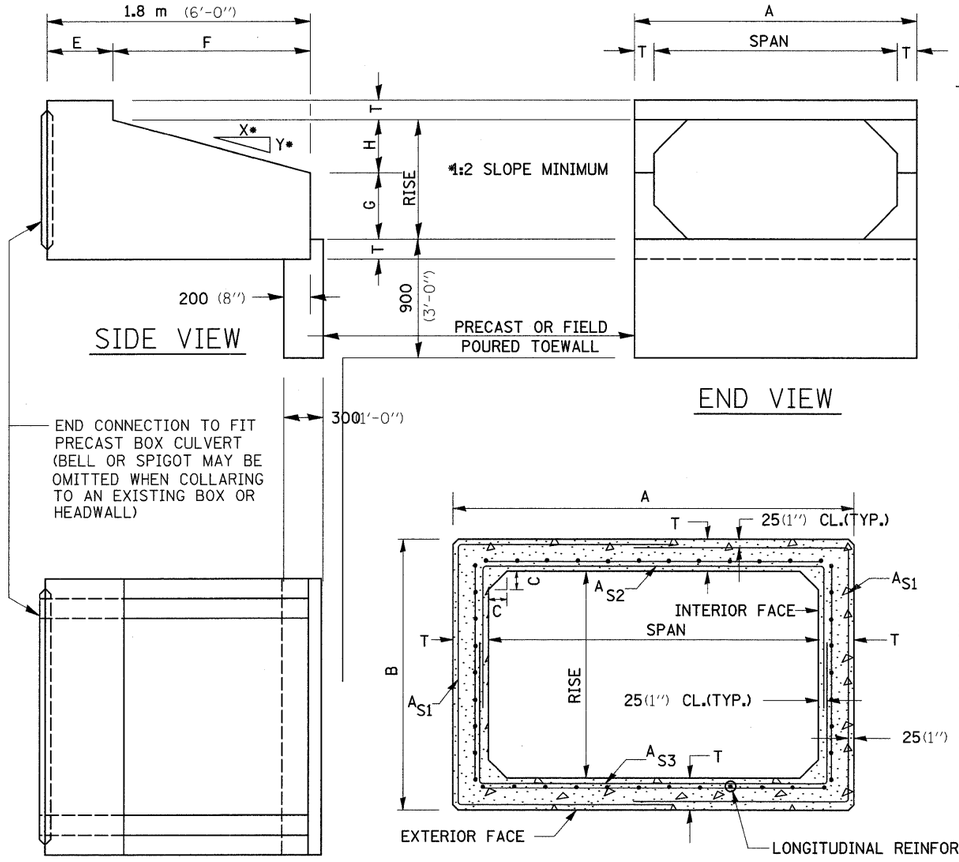
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	26
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS



PLAN

CROSS-SECTION

GENERAL NOTES

PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS

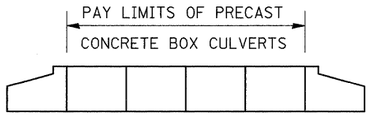
THIS WORK CONSISTS OF FURNISHING AND INSTALLING PRECAST BOX CULVERTS AND BOX CULVERT END SECTIONS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.

IF THE EARTH COVER IS 600 (2 ft) OR MORE, THE PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789 EXCEPT THAT THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION OF A GRADATION.

IF THE EARTH COVER IS LESS THAN 600 (2 ft), THE PRECAST BOX CULVERT BARREL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C850 AND THE END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789. WITH THE EXCEPTION OF GRADATION, THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 AND 1004.02 OF THE STANDARD SPECIFICATIONS.

ALL APPLICABLE REQUIREMENTS OF ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THE EXCAVATION AND BACKFILLING FOR PRECAST CONCRETE BOX CULVERT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS EXCEPT A LAYER OF POROUS GRANULAR BACKFILL, AT LEAST 150 (6") IN THICKNESS, SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF THE BOX. THE POROUS GRANULAR BACKFILL SHALL BE PLACED TO EXTEND AT LEAST 600 (2 ft) EACH SIDE OF THE BOX. THE PRECAST CONCRETE BOX CULVERT SHALL BE LAID IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ARTICLE 542.04 (d) OF THE STANDARD SPECIFICATIONS

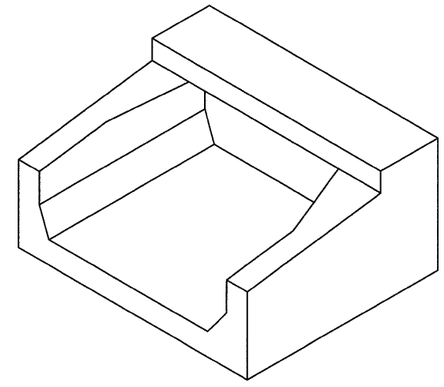


SHOP PLANS FOR THE PRECAST CONCRETE BOX CULVERT SECTIONS AND THE END SECTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03 (b) OF THE STANDARD SPECIFICATIONS.

THE PRECAST CONCRETE BOX CULVERT EXCLUDING END SECTIONS WILL BE MEASURED ON A METER (LINEAL FOOT) BASIC. THE PRECAST BOX CULVERT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (LINEAL FOOT) FOR PRECAST CONCRETE BOX CULVERT, OF THE SIZE SPECIFIED, AND INCLUDES POROUS GRADULAR BACKFILL EXCAVATION EXCEPT EXCAVATION OF ROCK AND/OR UNSTABLE OR UNSUITABLE MATERIAL BELOW BEDDING GRADE

THE PRECAST CONCRETE BOX CULVERT END SECTION WILL BE MEASURED ON AN EACH BASIS. THE END SECTIONS WILL BE PAID FOR AT THE CONCTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTIONS, OF THE CULVERT NUMBER SPECIFIED, AND INCLUDE EXCAVATION, TOEWALL AND COLLARS.

- ALL DIMENSIONS SHOULD BE VERIFIED WITH SUPPLIER.



ISOMETRIC VIEW

DIMENSIONS (FOR ASTM C789) *

SPAN X RISE (ft) meter	T mm (INCHES)	A mm (FT.-IN.)	B mm (FT.-IN.)	C mm (INCHES)	E mm (FT.-IN.)	F mm (FT.-IN.)	G mm (FT.-IN.)	H mm (FT.-IN.)	SLOPE (X : Y)
0.6 x 0.6 (2'x2')	100 (4)	800 (2-8)	800 (2-8)	100 (4)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:3
0.9 x 0.6 (3'x2')	100 (4)	1100 (3-8)	800 (2-8)	100 (4)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:3
0.9 x 0.75 (3'x2.5')	100 (4)	1100 (3-8)	950 (3-2)	100 (4)	900 (3-0)	900 (3-0)	375 (1-3)	375 (1-3)	1:3
0.9 x 0.9 (3'x3')	100 (4)	1100 (3-8)	1100 (3-8)	100 (4)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:3
1.2 x 0.6 (4'x2')	125 (5)	1450 (4-10)	850 (2-10)	125 (5)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:3
1.2 x 0.9 (4'x3')	125 (5)	1450 (4-10)	1150 (3-10)	125 (5)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:3
1.2 x 1.2 (4'x4')	125 (5)	1450 (4-10)	1450 (4-10)	125 (5)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.5 x 0.6 (5'x2')	150 (6)	1800 (6-0)	900 (3-0)	150 (6)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:3
1.5 x 0.9 (5'x3')	150 (6)	1800 (6-0)	1200 (4-0)	150 (6)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:3
1.5 x 1.2 (5'x4')	150 (6)	1800 (6-0)	1500 (5-0)	150 (6)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.5 x 1.5 (5'x5')	150 (6)	1800 (6-0)	1800 (6-0)	150 (6)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:3
1.8 x 0.6 (6'x2')	175 (7)	2150 (7-2)	950 (3-2)	175 (7)	900 (3-0)	900 (3-0)	300 (1-0)	300 (1-0)	1:3
1.8 x 0.9 (6'x3')	175 (7)	2150 (7-2)	1250 (4-2)	175 (7)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:3
1.8 x 1.2 (6'x4')	175 (7)	2150 (7-2)	1550 (5-2)	175 (7)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
1.8 x 1.5 (6'x5')	175 (7)	2150 (7-2)	1850 (6-2)	175 (7)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
1.8 x 1.8 (6'x6')	175 (7)	2150 (7-2)	2150 (7-2)	175 (7)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.1 x 0.9 (7'x3')	200 (8)	2500 (8-4)	1300 (4-4)	200 (8)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.1 x 1.2 (7'x4')	200 (8)	2500 (8-4)	1600 (5-4)	200 (8)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.1 x 1.5 (7'x5')	200 (8)	2500 (8-4)	1900 (6-4)	200 (8)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.1 x 1.8 (7'x6')	200 (8)	2500 (8-4)	2200 (7-4)	200 (8)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.1 x 2.1 (7'x7')	200 (8)	2500 (8-4)	2500 (8-4)	200 (8)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
2.4 x 0.9 (8'x3')	200 (8)	2800 (9-4)	1300 (4-4)	200 (8)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.4 x 1.2 (8'x4')	200 (8)	2800 (9-4)	1600 (5-4)	200 (8)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.4 x 1.5 (8'x5')	200 (8)	2800 (9-4)	1900 (6-4)	200 (8)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.4 x 1.8 (8'x6')	200 (8)	2800 (9-4)	2200 (7-4)	200 (8)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.4 x 2.1 (8'x7')	200 (8)	2800 (9-4)	2500 (8-4)	200 (8)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
2.4 x 2.4 (8'x8')	200 (8)	2800 (9-4)	2800 (9-4)	200 (8)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
2.7 x 0.9 (9'x3')	225 (9)	3150 (10-6)	1350 (4-6)	225 (9)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
2.7 x 1.2 (9'x4')	225 (9)	3150 (10-6)	1650 (5-6)	225 (9)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
2.7 x 1.5 (9'x5')	225 (9)	3150 (10-6)	1950 (6-6)	225 (9)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
2.7 x 1.8 (9'x6')	225 (9)	3150 (10-6)	2250 (7-6)	225 (9)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
2.7 x 2.1 (9'x7')	225 (9)	3150 (10-6)	2600 (8-6)	225 (9)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
2.7 x 2.4 (9'x8')	225 (9)	3150 (10-6)	2900 (9-6)	225 (9)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
2.7 x 2.7 (9'x9')	225 (9)	3150 (10-6)	3150 (10-6)	225 (9)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.0 x 0.9 (10'x3')	255 (10)	3550 (11-8)	1425 (4-8)	250 (10)	600 (2-0)	1200 (4-0)	500 (1-8)	400 (1-4)	1:3
3.0 x 1.2 (10'x4')	255 (10)	3550 (11-8)	1725 (5-8)	250 (10)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.0 x 1.5 (10'x5')	255 (10)	3550 (11-8)	2025 (6-8)	250 (10)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.0 x 1.8 (10'x6')	255 (10)	3550 (11-8)	2350 (7-8)	250 (10)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.0 x 2.1 (10'x7')	255 (10)	3550 (11-8)	2650 (8-8)	250 (10)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.0 x 2.4 (10'x8')	255 (10)	3550 (11-8)	2950 (9-8)	250 (10)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
3.0 x 2.7 (10'x9')	255 (10)	3550 (11-8)	3250 (10-8)	250 (10)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.0 x 3.0 (10'x10')	255 (10)	3550 (11-8)	3550 (11-8)	250 (10)	600 (2-0)	1200 (4-0)	2400 (8-0)	600 (2-0)	1:2
3.3 x 0.9 (11'x3')	280 (11)	3900 (12-10)	1475 (4-10)	275 (11)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.3 x 1.2 (11'x4')	280 (11)	3900 (12-10)	1775 (5-10)	275 (11)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.3 x 1.5 (11'x5')	280 (11)	3900 (12-10)	2075 (6-10)	275 (11)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.3 x 1.8 (11'x6')	280 (11)	3900 (12-10)	2400 (7-10)	275 (11)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
3.3 x 2.1 (11'x7')	280 (11)	3900 (12-10)	2700 (8-10)	275 (11)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.3 x 2.4 (11'x8')	280 (11)	3900 (12-10)	3000 (9-10)	275 (11)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2
3.3 x 2.7 (11'x9')	280 (11)	3900 (12-10)	3300 (10-10)	275 (11)	600 (2-0)	1200 (4-0)	2100 (7-0)	600 (2-0)	1:2
3.3 x 3.0 (11'x10')	280 (11)	3900 (12-10)	3600 (11-10)	275 (11)	600 (2-0)	1200 (4-0)	2400 (8-0)	600 (2-0)	1:2
3.3 x 3.3 (11'x11')	280 (11)	3900 (12-10)	3900 (12-10)	275 (11)	600 (2-0)	1200 (4-0)	2700 (9-0)	600 (2-0)	1:2
3.6 x 0.9 (12'x3')	300 (12)	4250 (14-0)	1525 (5-0)	300 (1-0)	600 (2-0)	1200 (4-0)	300 (1-0)	600 (2-0)	1:2
3.6 x 1.2 (12'x4')	300 (12)	4250 (14-0)	1825 (6-0)	300 (1-0)	600 (2-0)	1200 (4-0)	600 (2-0)	600 (2-0)	1:2
3.6 x 1.5 (12'x5')	300 (12)	4250 (14-0)	2125 (7-0)	300 (1-0)	600 (2-0)	1200 (4-0)	900 (3-0)	600 (2-0)	1:2
3.6 x 1.8 (12'x6')	300 (12)	4250 (14-0)	2425 (8-0)	300 (1-0)	600 (2-0)	1200 (4-0)	1200 (4-0)	600 (2-0)	1:2
3.6 x 2.1 (12'x7')	300 (12)	4250 (14-0)	2725 (9-0)	300 (1-0)	600 (2-0)	1200 (4-0)	1500 (5-0)	600 (2-0)	1:2
3.6 x 2.4 (12'x8')	300 (12)	4250 (14-0)	3025 (10-0)	300 (1-0)	600 (2-0)	1200 (4-0)	1800 (6-0)	600 (2-0)	1:2

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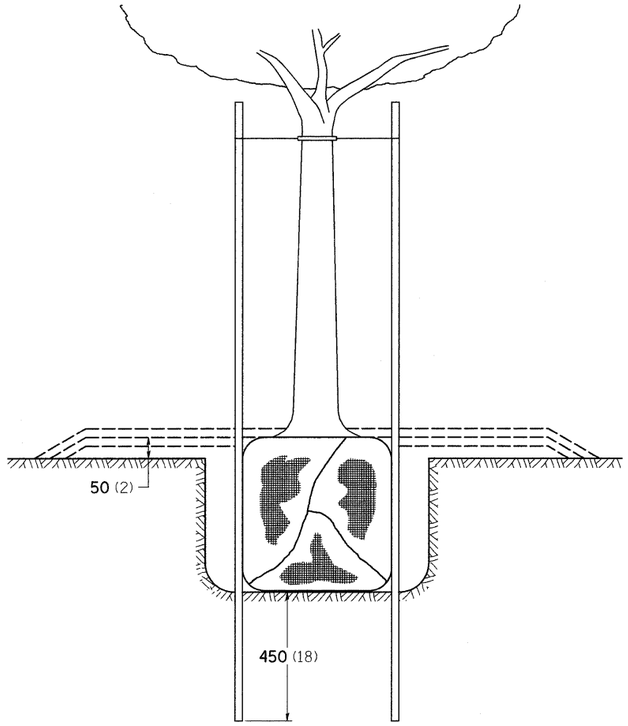
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

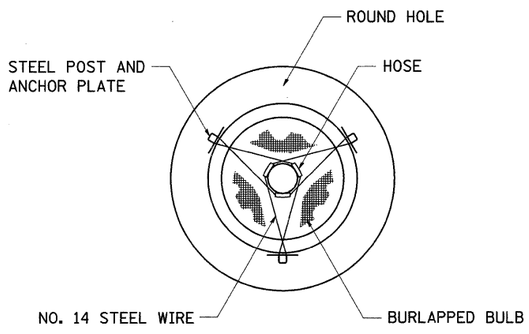
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	27
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

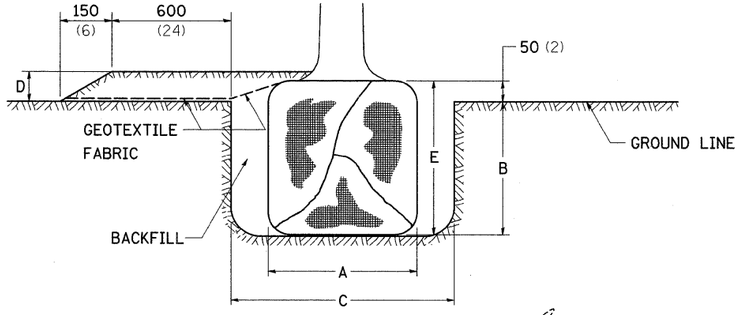


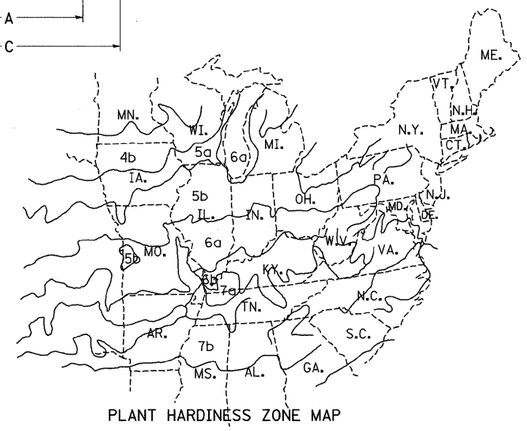
TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



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

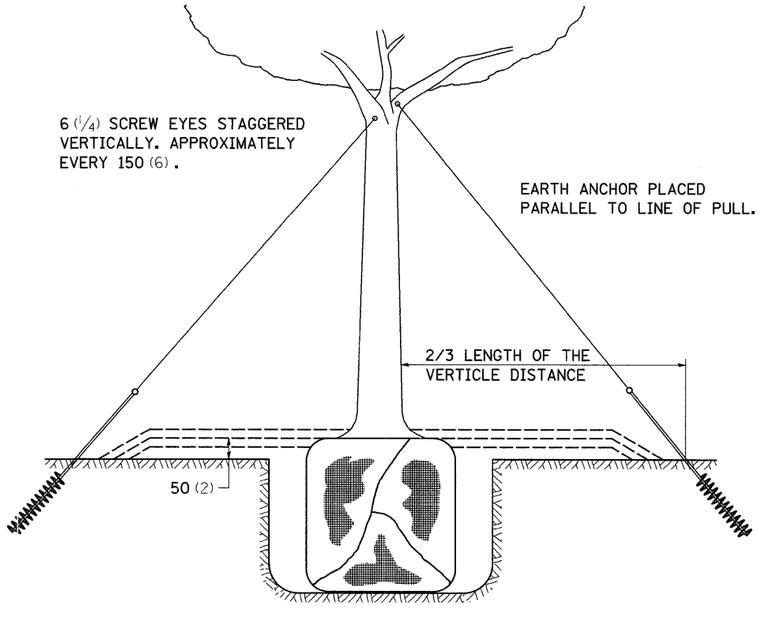
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2)BB	600 (24)	350 (14)	1200 (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)



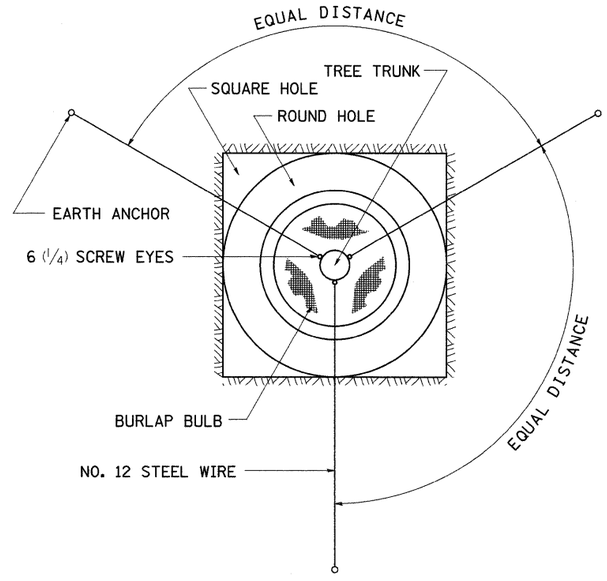


PLANT HARDINESS ZONE MAP

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.

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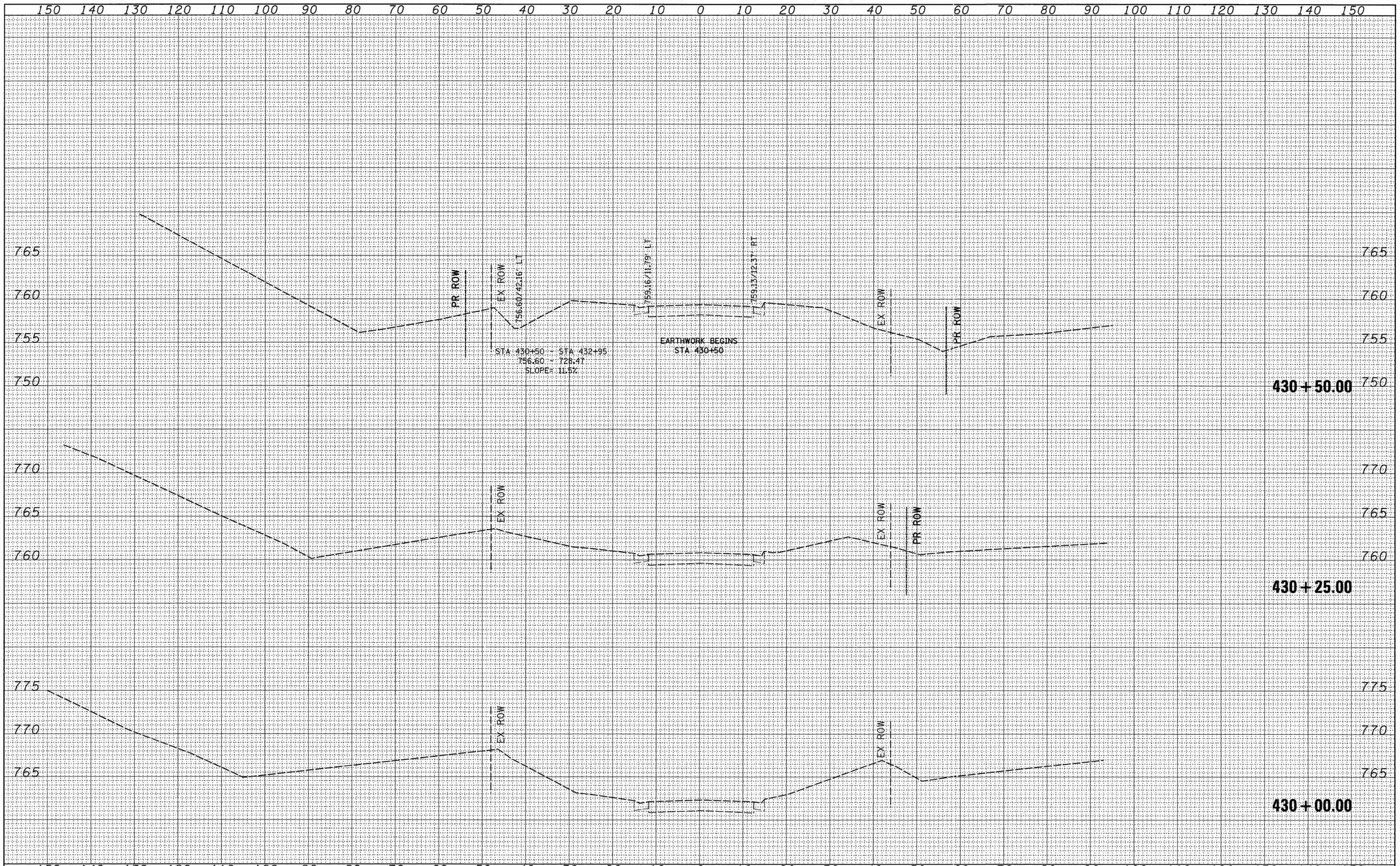
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	28
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES 92.1



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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

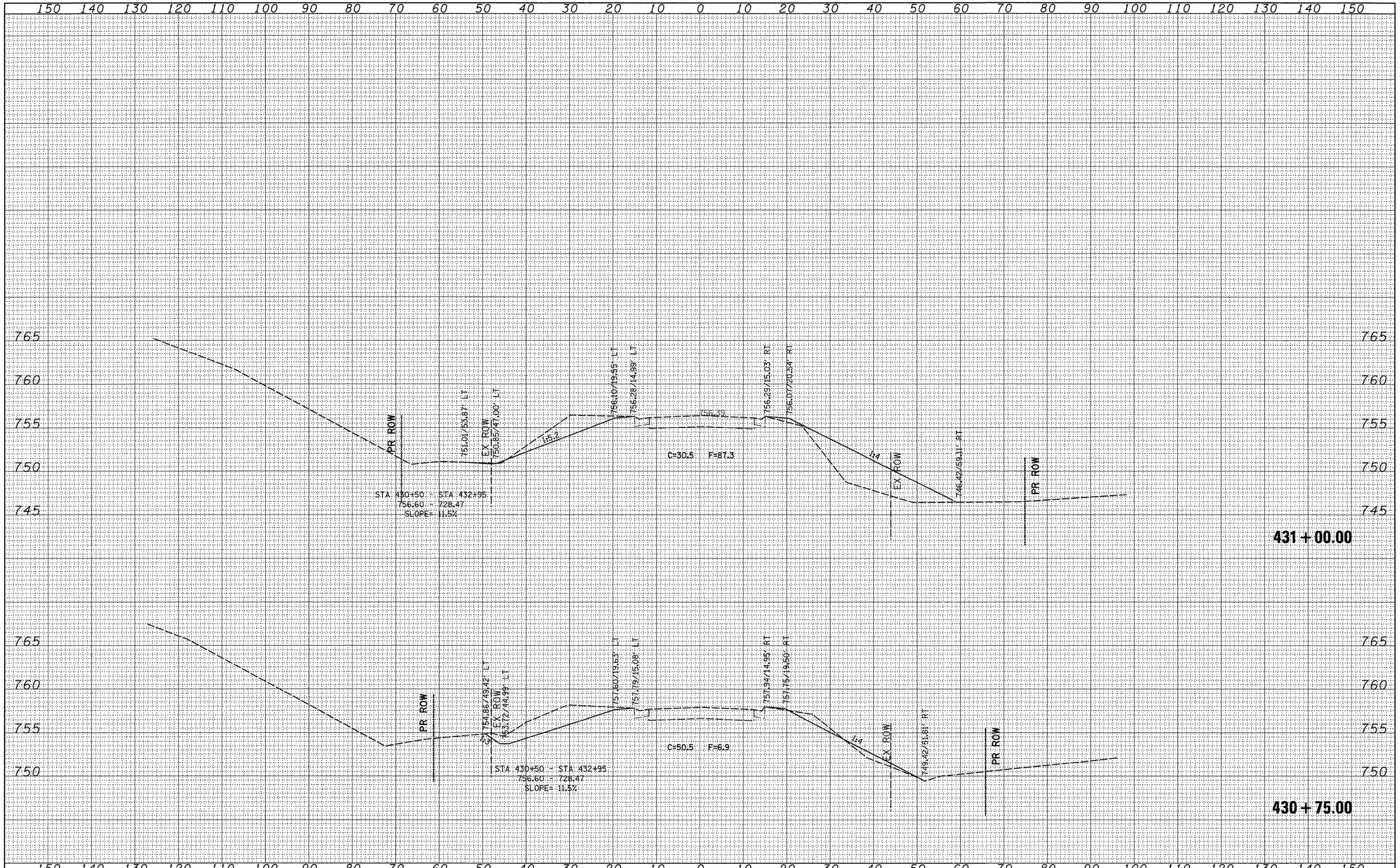
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 430+00.00 TO STA. 430+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	29
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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		DRAWN -	REVISED -
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	PLOT DATE = Wed Jan 23 08:56:57 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

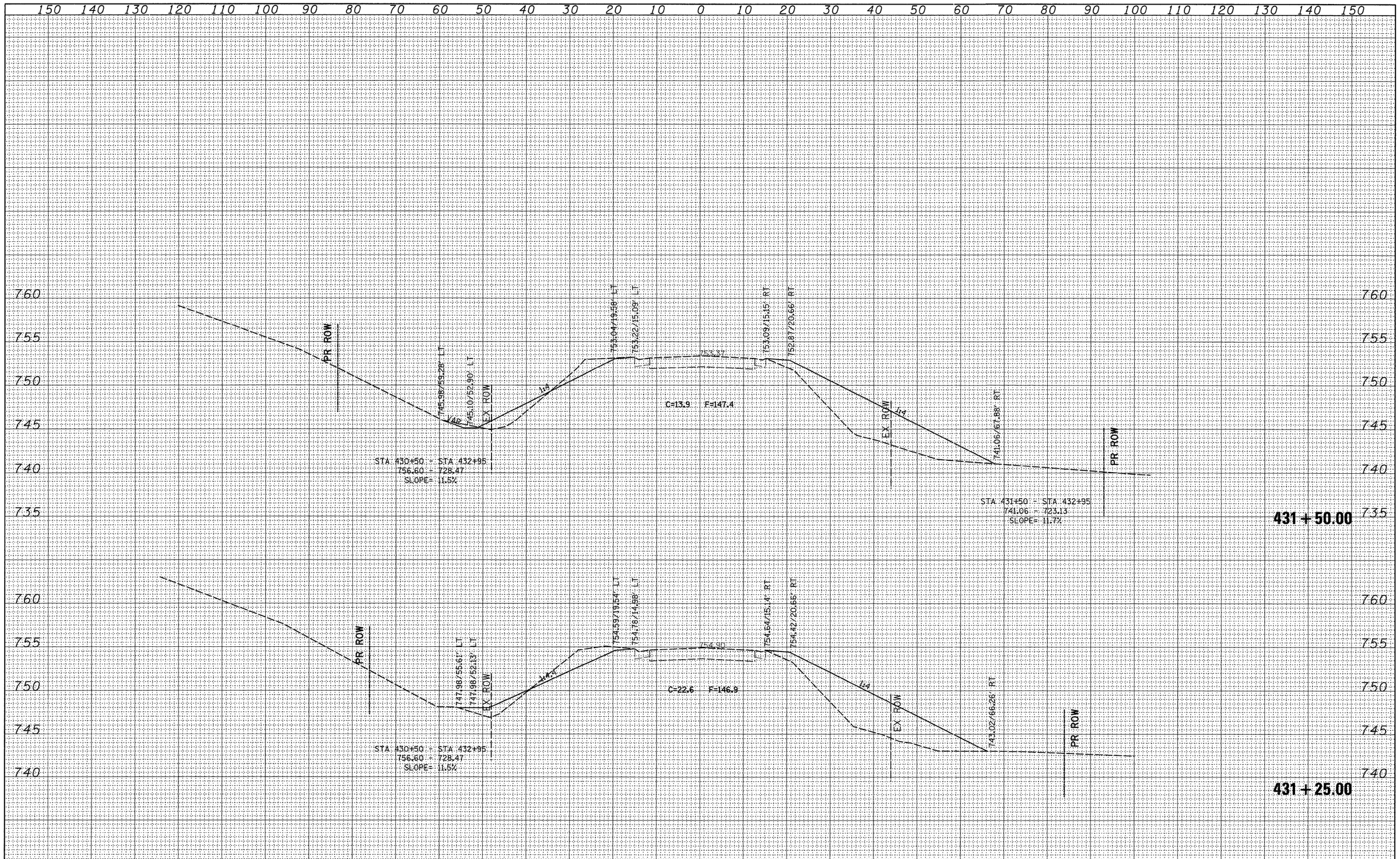
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 430+75.00 TO STA. 431+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	30
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DUPLICATE		
	TEMP. ALT.		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DUPLICATE		
	TEMP. ALT.		
	AREAS		
	AREAS CHECKED		



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	PLOT DATE = Wed Jan 23 08:56:57 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

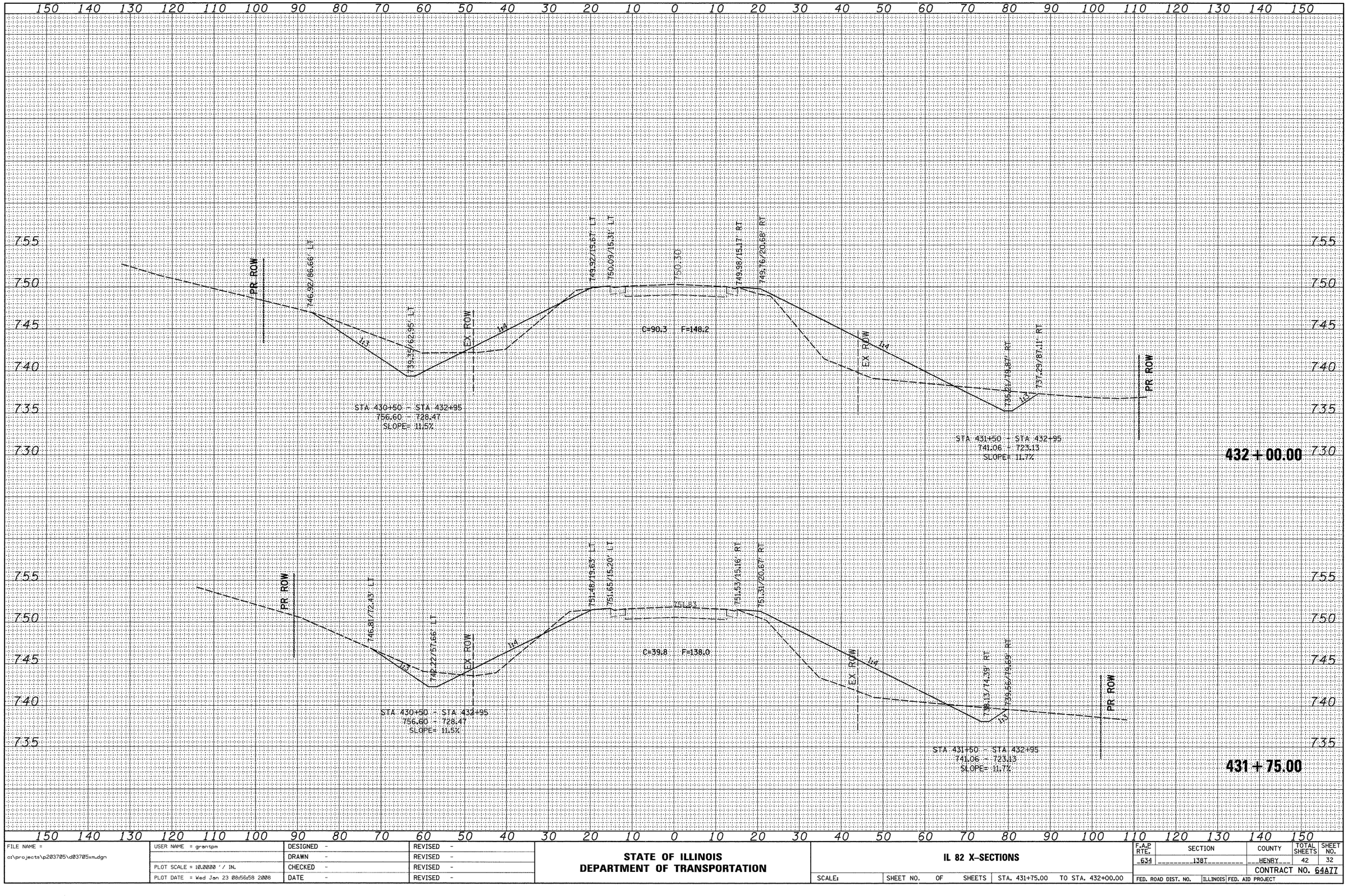
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 431+25.00 TO STA. 431+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	31
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = Wed Jan 23 08:56:58 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

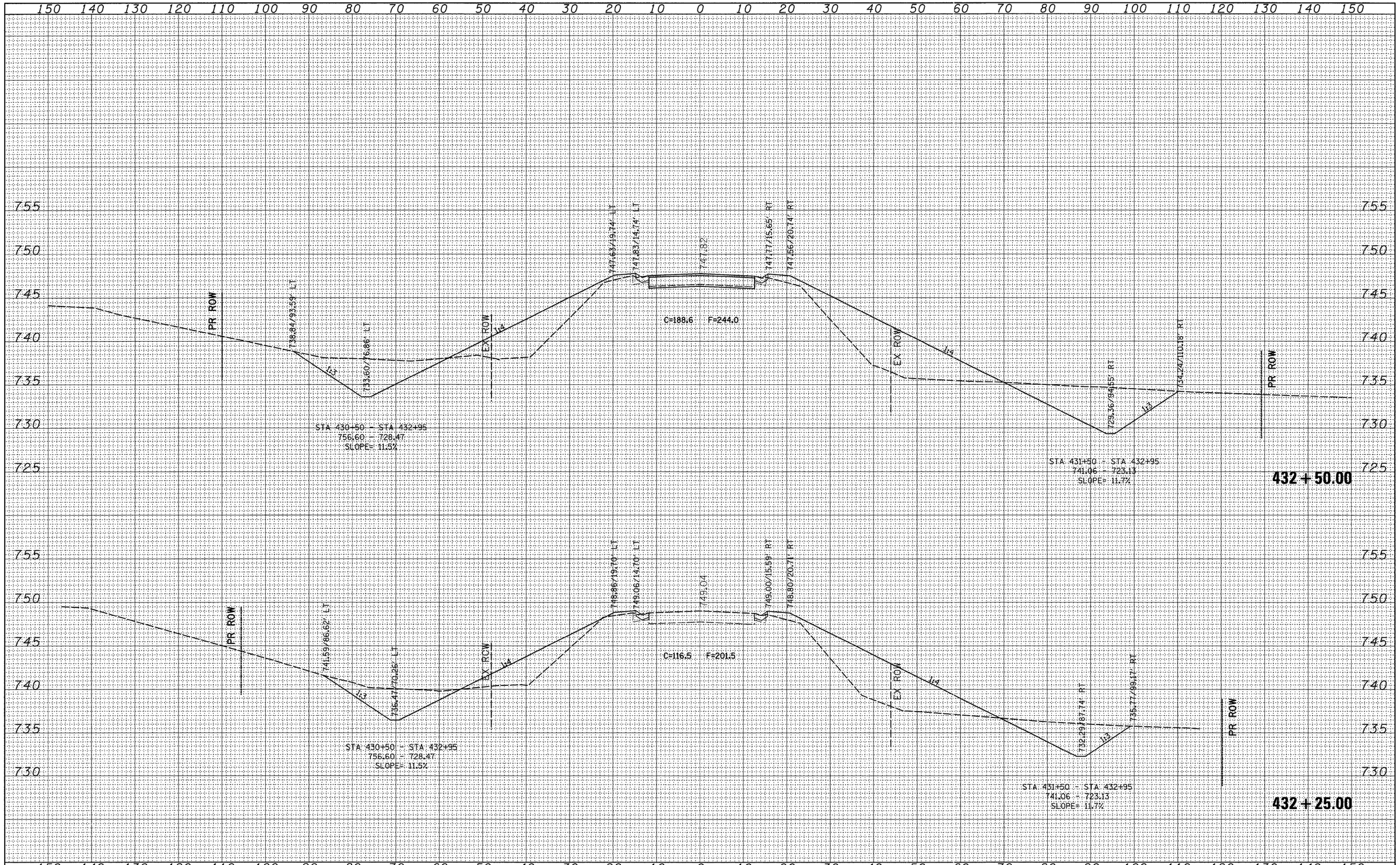
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 431+75.00 TO STA. 432+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138I	HENRY	42	32
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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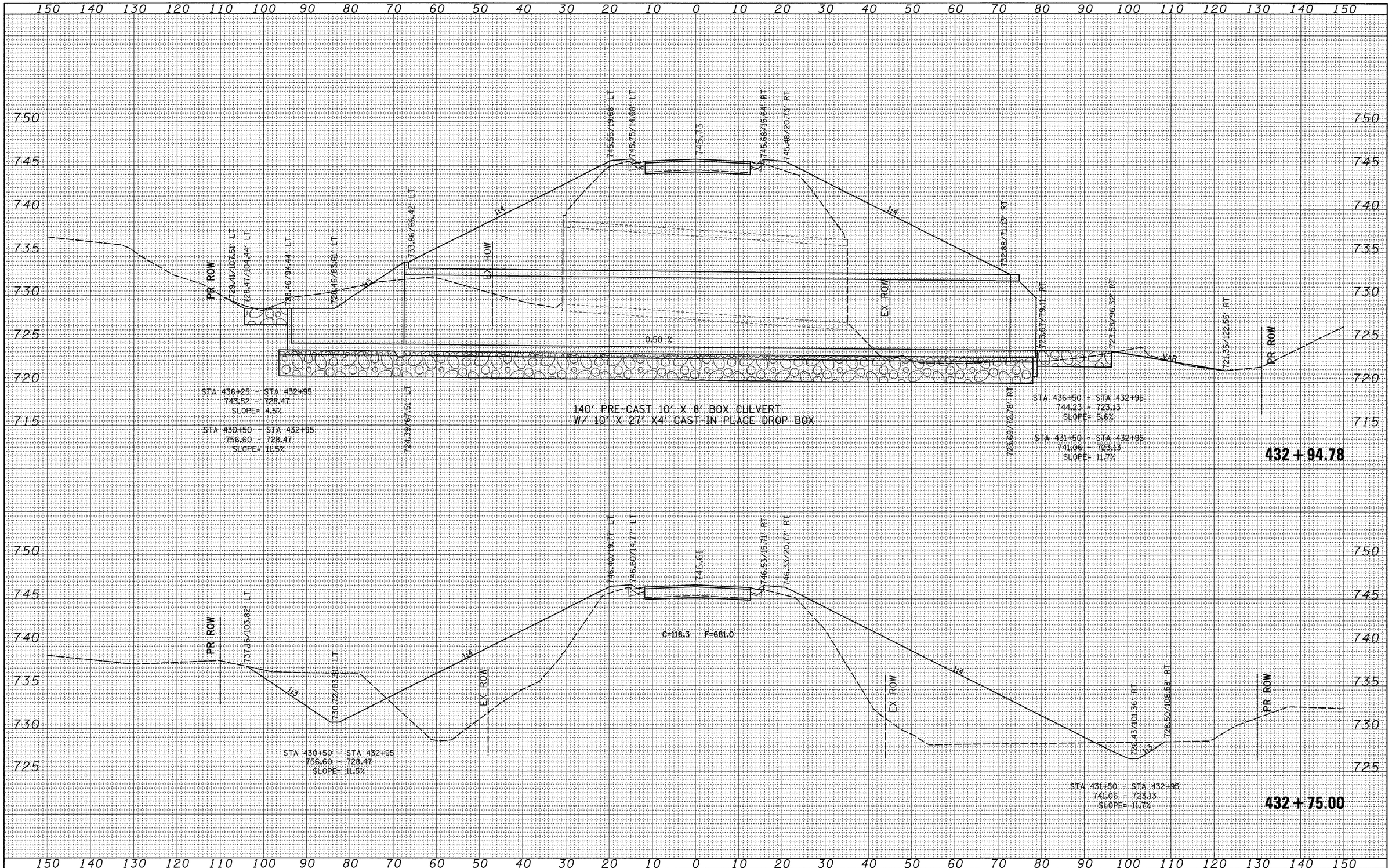
	PLOT DATE = Wed Jan 23 08:58:58 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 432+25.00 TO STA. 432+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	33
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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	PLOT DATE = Wed Jan 23 08:56:58 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

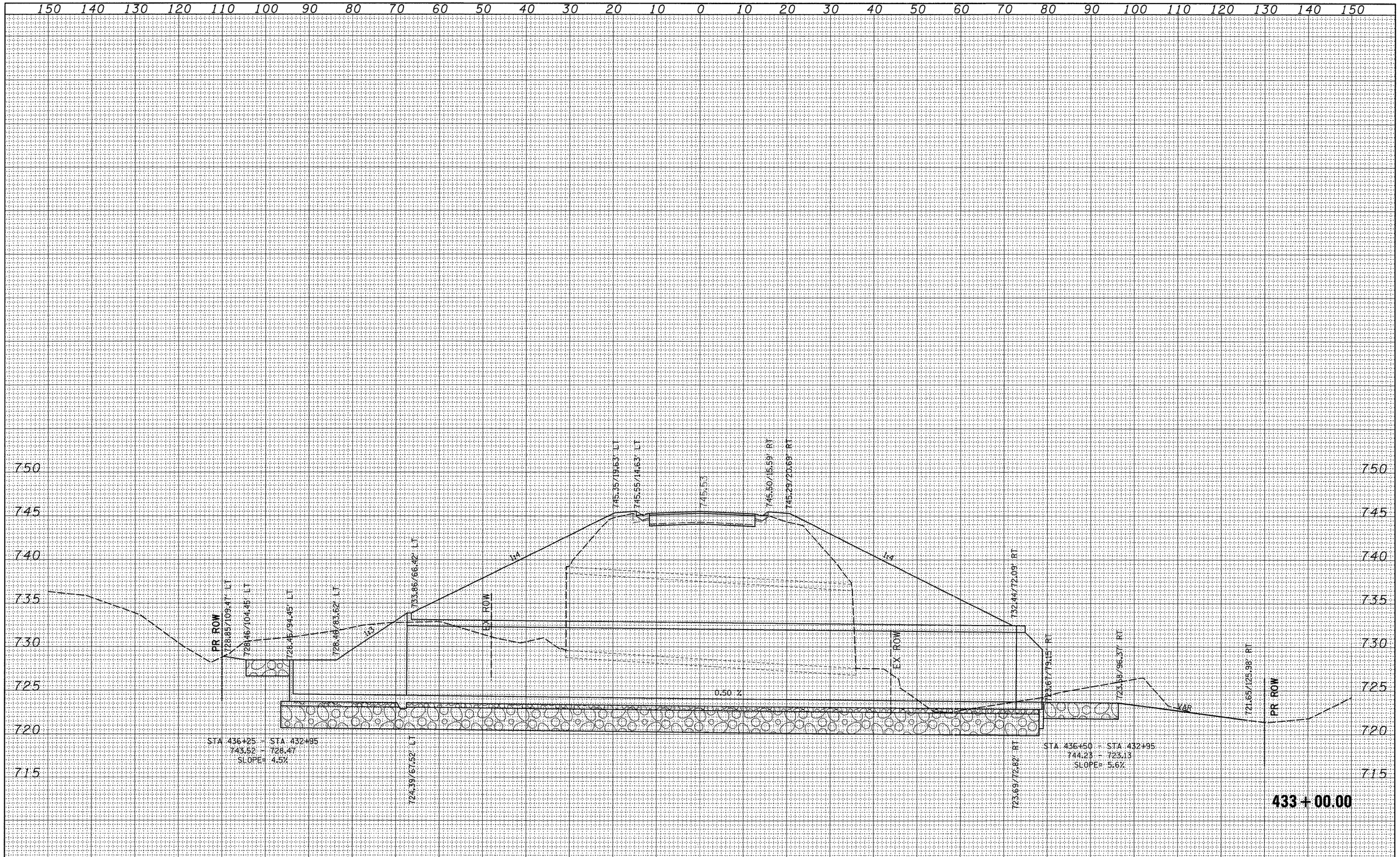
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 432+75.00 TO STA. 432+94.78

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	34
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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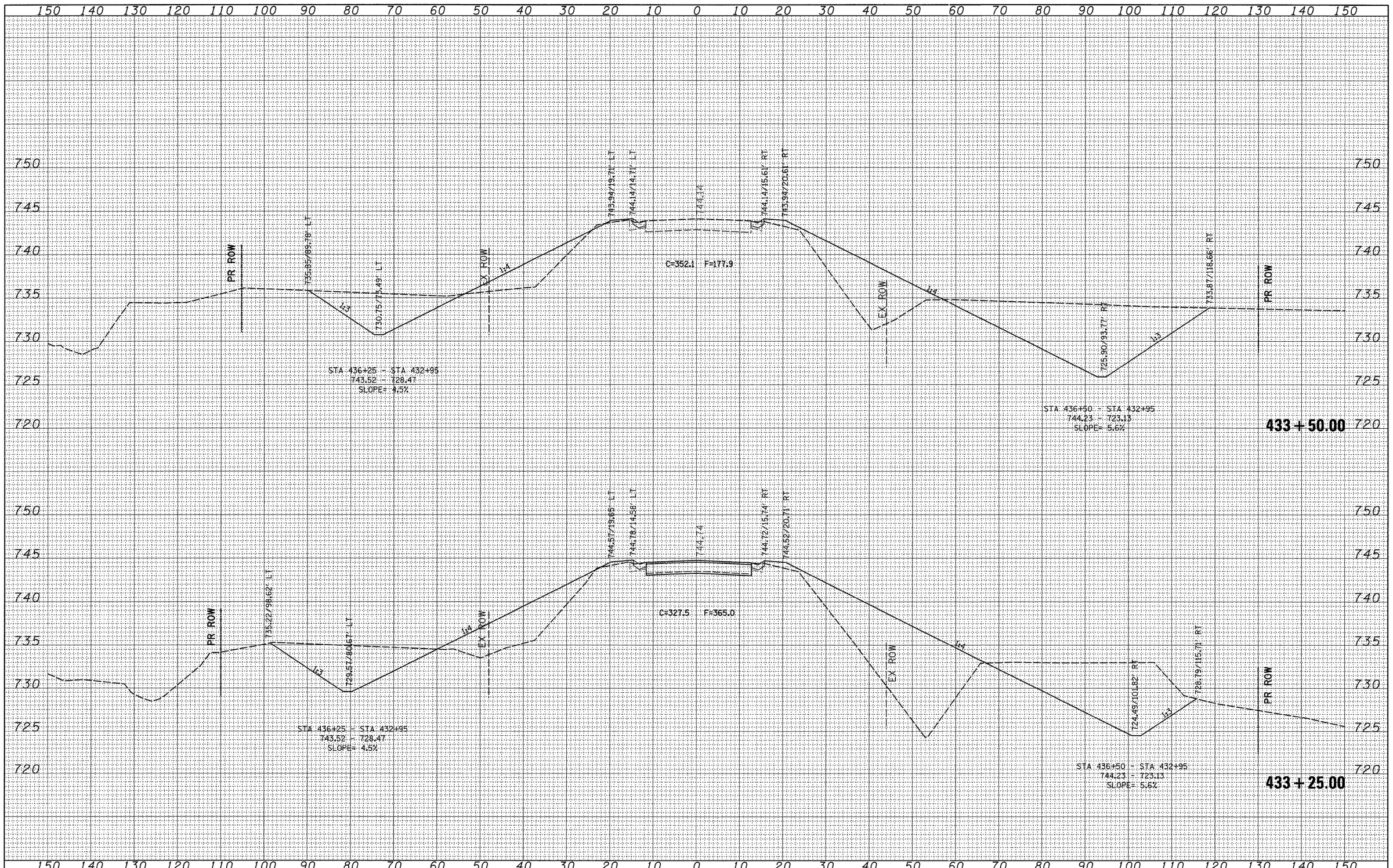
	PLOT DATE = Wed Jan 23 08:56:59 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 433+00.00 TO STA. 433+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	35
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY — NOTE BOOK — NO.

SURVEYED — BY — DATE
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK — NO.

SURVEYED — BY — DATE
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

FILE NAME = c:\projects\p203705\d03705xm.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Jan 23 08:56:59 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 433+25.00 TO STA. 433+50.00

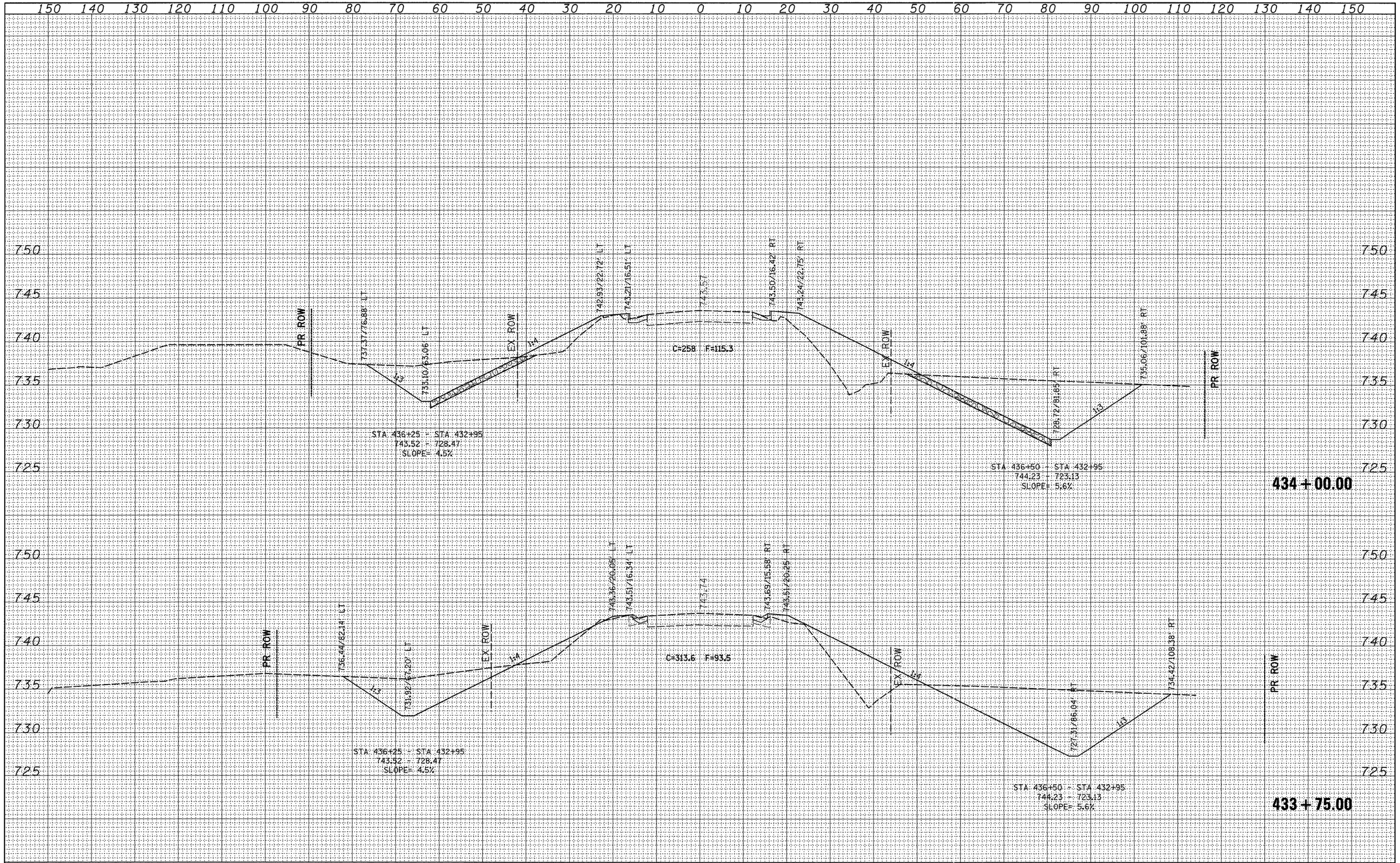
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	36
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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	PLOT DATE = Wed Jan 23 08:56:59 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 433+75.00 TO STA. 434+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	37
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

7:50 7:45 7:40 7:35 7:30 7:25

PR ROW

738.76/58.41' LT

735.45/41.51' LT

EX ROW

742.68/17.58' LT

742.92/13.58' LT

743.06/41.76' RT

742.82/15.76' RT

732.95/36.25' RT

737.11/69.72' RT

PR ROW

STA 436+25 - STA 432+95
743.52 - 728.47
SLOPE= 4.5%

C=137.1 F=13.8

STA 436+50 - STA 432+95
744.23 - 723.13
SLOPE= 5.6%

434+50.00

PR ROW

737.94/67.46' LT

734.27/55.46' LT

EX ROW

742.84/20.20' LT

743.12/15.53' LT

743.38/15.28' RT

743.10/19.93' RT

730.13/72.82' RT

735.88/91.08' RT

PR ROW

STA 436+25 - STA 432+95
743.52 - 728.47
SLOPE= 4.5%

C=215.9 F=60.9

STA 436+50 - STA 432+95
744.23 - 723.13
SLOPE= 5.6%

434+25.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = c:\projects\p203705\d03705xm.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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	PLOT DATE = Wed Jan 23 08:57:00 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

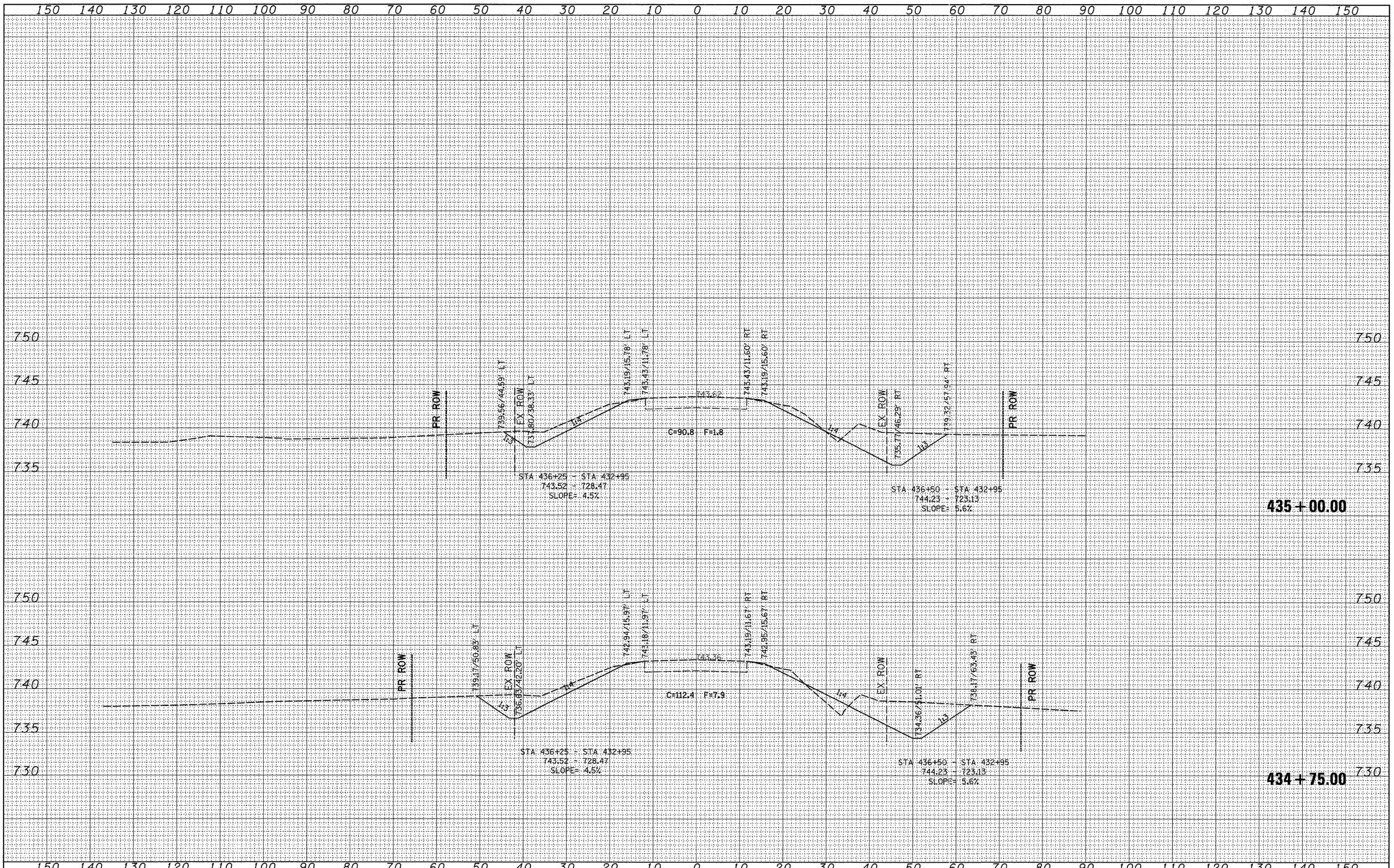
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 434+25.00 TO STA. 434+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	38
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

FILE NAME = c:\projects\p203705\d03705xm.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Wed Jan 23 08:57:00 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 434+75.00 TO STA. 435+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	39
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

7.50
7.45
7.40
7.35

EX. ROW
PR. ROW

741.83'/36.72' LT
741.32'/34.18' LT
744.53'/15.64' LT
744.77'/11.64' LT
744.78'/11.55' RT
744.54'/15.55' RT
744.20'/48.31' RT
740.00'/44.69' RT

C=64.5 F=1.0

STA 436+25 - STA 432+95
743.52 - 728.47
SLOPE= 4.5%

STA 436+50 - STA 432+95
744.23 - 723.13
SLOPE= 5.6%

435 + 75.00

741.04'/38.57' LT
740.15'/34.89' LT
744.02'/15.64' LT
744.26'/11.64' LT
744.26'/11.55' RT
744.02'/15.55' RT
742.42'/50.78' RT
738.59'/38.27' RT

C=69.4 F=2.3

STA 436+25 - STA 432+95
743.52 - 728.47
SLOPE= 4.5%

STA 436+50 - STA 432+95
744.23 - 723.13
SLOPE= 5.6%

435 + 50.00

740.11'/41.92' LT
738.97'/37.50' LT
743.50'/15.63' LT
743.74'/11.63' LT
743.75'/11.55' RT
743.51'/15.55' RT
740.86'/53.91' RT
737.18'/41.86' RT

C=75.1 F=3.5

STA 436+25 - STA 432+95
743.52 - 728.47
SLOPE= 4.5%

STA 436+50 - STA 432+95
744.23 - 723.13
SLOPE= 5.6%

435 + 25.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

FILE NAME = c:\projects\p203705\d03705xm.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
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	PLOT DATE = Wed Jan 23 08:57:00 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

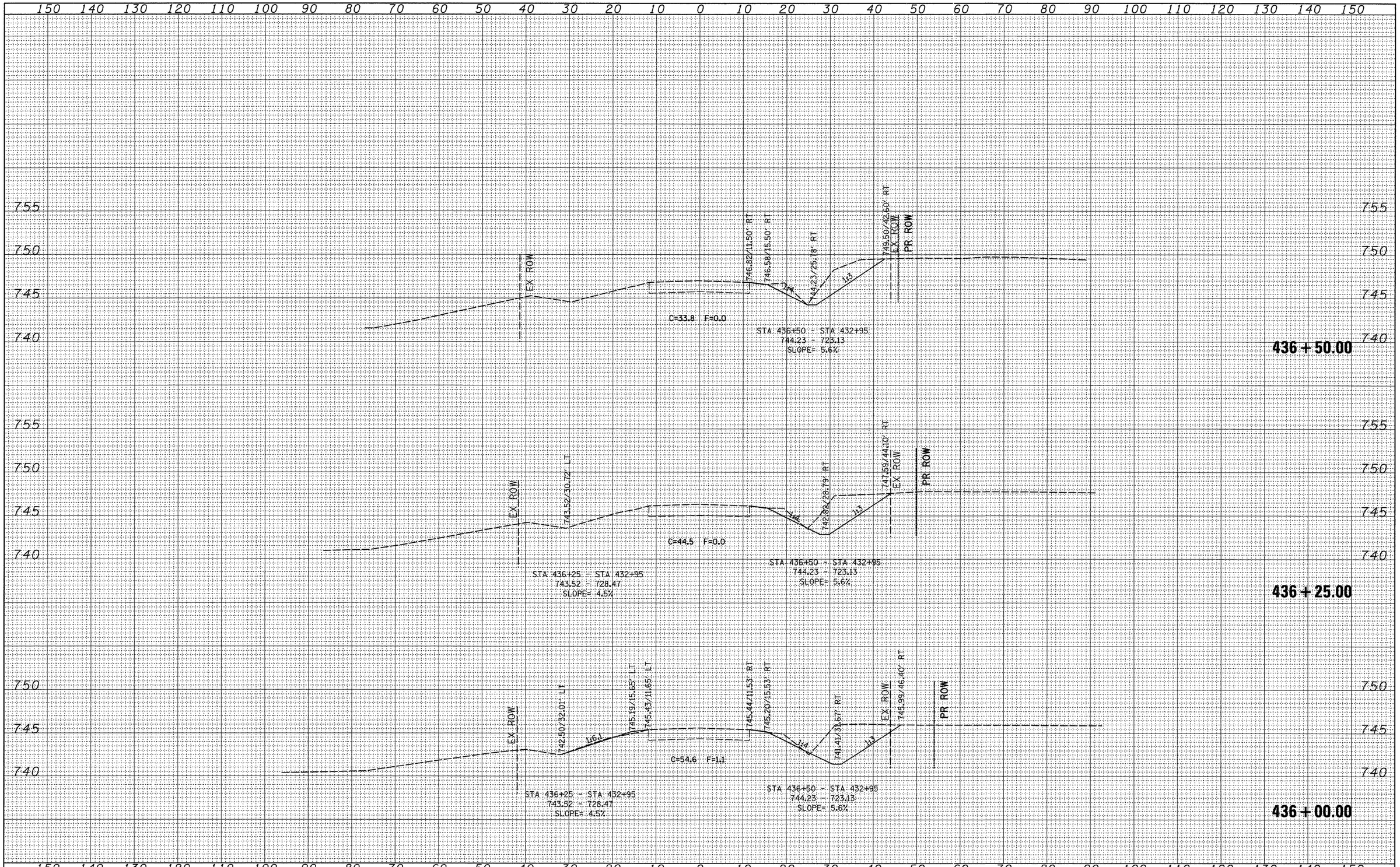
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 435+25.00 TO STA. 435+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	40
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = Wed Jan 23 08:57:01 2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

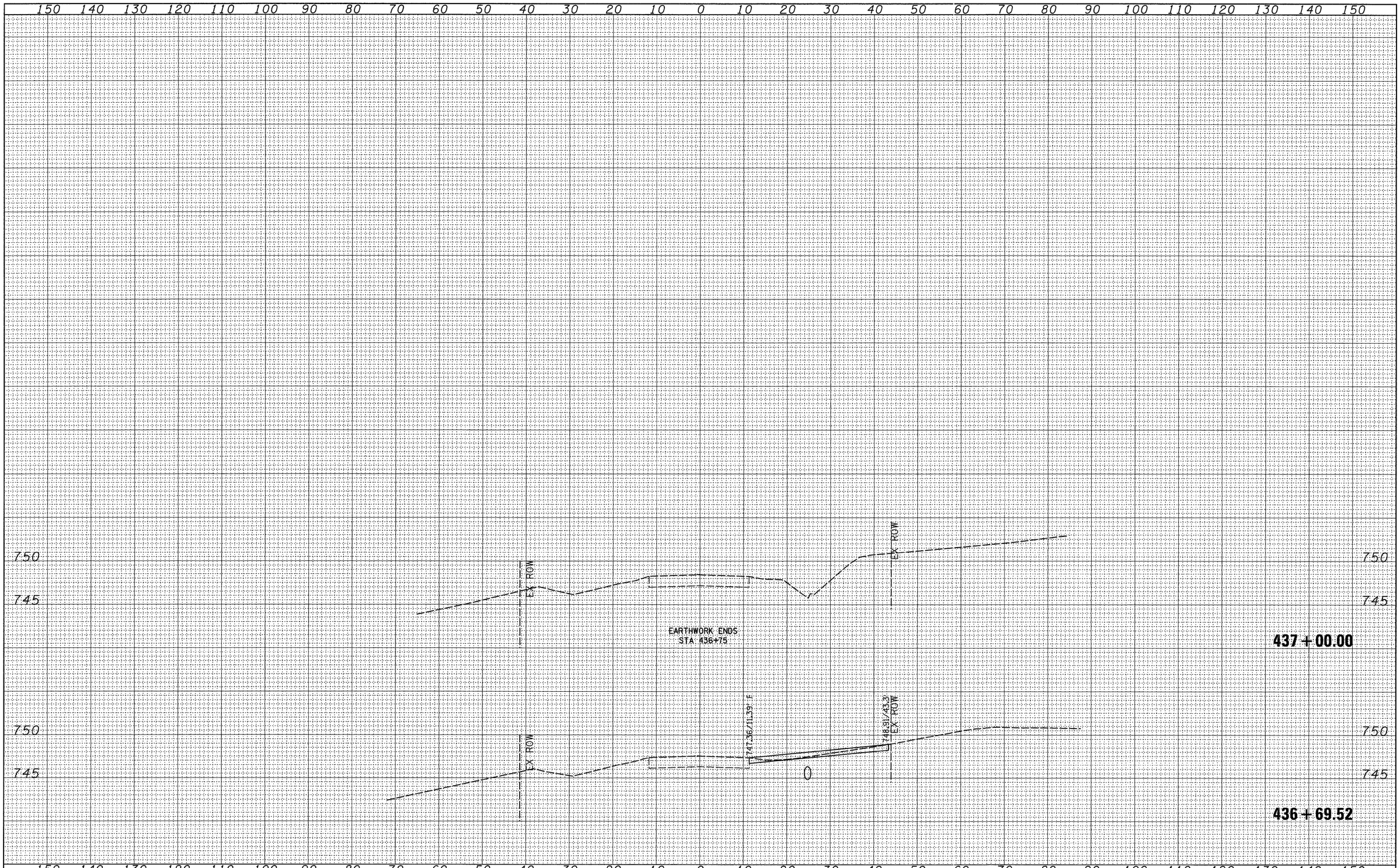
IL 82 X-SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 436+00.00 TO STA. 436+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	41
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TYPED ALT.		
NOTE BOOK	AREAS	
NO.	AREAS	CHECKED

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TYPED ALT.		
NOTE BOOK	AREAS	
NO.	AREAS	CKED



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		DRAWN -	REVISED -		
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -		
	PLOT DATE = Wed Jan 23 08:57:01 2008	DATE -	REVISED -		

SCALE:	SHEET NO.	OF	SHEETS	STA. 436+69.52	TO STA. 437+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	138T	HENRY	42	42
		CONTRACT NO. 64A77		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		