

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 64C57	

* 34
+ 1
35

P-92-100-06



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 638 (IL 82)
SECTION 136T
PROJECT ACF-0638(009)
HENRY COUNTY

C-92-122-07



FOR INDEX OF SHEETS, SEE SHEET NO. 2

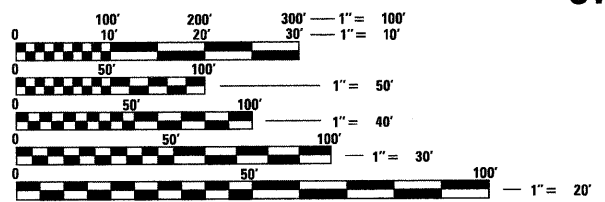
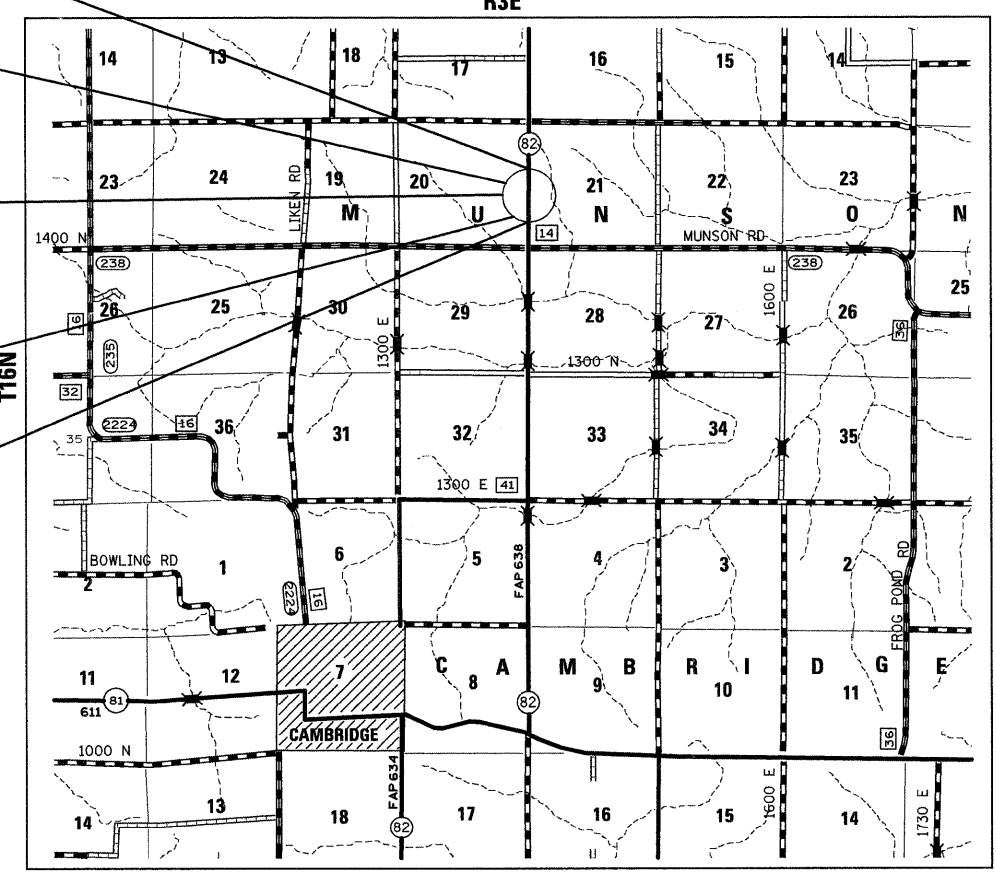
IMPROVEMENT ENDS
STA 779+00.00

SECTION ENDS
STA 775+81.50

6' X 4' CULVERT
STA 775+56.50

SECTION BEGINS
STA 775+31.50

IMPROVEMENT BEGINS
STA 773+00



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

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

EXISTING 6' X 4' CULVERT SN# 037-1080
PROPOSED 6' X 4' CULVERT SN# 037-1180

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED January 31, 2008

Steve F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2008
Eric E. Harsh
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2008
Christina M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GROSS LENGTH OF PROJECT = 50 LIN. FT. = .01 MI.
NET LENGTH = 50 LIN. FT. = .01 MI.

MUNSON TOWNSHIP 20,21
CONTRACT NO. 64C57

PROJECT ENGINEER: BECKY MARRUFFO

SQUAD LEADER: JENNIFER LUBBS (815) 284-5958

1	COVER SHEET	280001-04	Temporary Erosion Control Systems
2	INDEX OF SHEETS AND STANDARDS	420001-07	Pavement Joints
3	SUMMARY OF QUANTITIES	442201-03	Class C & D Patches
4 - 5	GENERAL NOTES	635001	Delineators
6 - 8	TYPICAL SECTIONS	666001	Right of Way Markers
9 - 12	SCHEDULE OF QUANTITIES	667101	Permanent Survey Markers
13	HORIZONTAL AND VERTICAL CONTROL	701006-02	Off-Road Operations, 2L, 2W, 4.5m (15') to 600mm (24") From Pavement Edge
14	PLAN AND PROFILE	701011-01	Off-Road Moving Operations, 2L, 2W, Day Only
15 - 20	STAGING DETAILS	701201-02	Lane Closure, 2L, 2W, Day Only, for Speeds \geq 45 MPH
21	TEMPORARY SOIL RETENTION SYSTEM DETAILS	701301-02	Lane Closure, 2L, 2W, Short Time Operations
22 - 24	CULVERT DETAILS	701311-02	Lane Closure, 2L, 2W Moving Operations - Day Only
25A	SOIL BORING LOGS \longrightarrow 25A BAR SPLICER DETAILS	701321-09	Lane Closure, 2L, 2W Bridge Repair with Barrier
26	HOT-MIX ASPHALT SHOULDER (23.4a)	701901	Traffic Control Devices
26	DELINEATOR AND POST (37.4)	704001-04	Temporary Concrete Barrier
26	LAND SECTION & REFERENCE MARKERS (63.4)	720011	Metal Posts for Signs, Markers & Delineators
26	LETTERING FOR NAMEPLATE (89.4)	728001	Telescoping Steel Sign Support
27	STOP LINE SIGN FOR TEMPORARY SIGNALS (99.4)	729001	Applications of Types A & B Metal Posts (For Signs & Markers)
27	EROSION CONTROL DETAILS FOR SILT FENCE (29.2)	780001-01	Typical Pavement Markings
28	FIELD TILE JUNCTION VAULTS (30.2)	886001	Detector Loop Installations
28	WITNESS MARKER AND PERMANENT SURVEY MARKERS, TYPE II (66.2)	886006	Typical Layout for Detection Loops
29 - 30	TYPICAL PAVEMENT MARKINGS (41.1)	000001-05	Standard Symbols, Abbreviations and Patterns
31 - 34	CROSS SECTIONS	001001-01	Areas of Reinforcement Bars
		001006	Decimal of an Inch and of a Foot

SP

CODE NUMBER	PAY ITEM	UNIT	RURAL 80% FED. 20% STATE Y007 TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	1866
25000210	SEEDING, CLASS 2A	ACRE	0.71
25000310	SEEDING, CLASS 4	ACRE	0.18
25000350	SEEDING, CLASS 7	ACRE	0.24
25000750	MOWING	ACRE	0.89
25100115	MULCH, METHOD 2	ACRE	0.89
25100900	TURF REINFORCEMENT MAT	SQ YD	1689
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	375
28000300	TEMPORARY DITCH CHECKS	EACH	25
28000400	PERIMETER EROSION BARRIER	FOOT	220
28100107	STONE RIPRAP, CLASS A4	SQ YD	69
28200200	FILTER FABRIC	SQ YD	69
35100100	AGGREGATE BASE COURSE, TYPE A	TON	380
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	10
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	12
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	88
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	145
48101200	AGGREGATE SHOULDERS, TYPE B	TON	219
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	2
50800105	REINFORCEMENT BARS	POUND	8,870
50800515	BAR SPLICERS	EACH	31
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	323
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	52.3
542D5503	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	35
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	75
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	5
61140000	STORM SEWERS (SPECIAL) 8"	FOOT	76
61140100	STORM SEWERS (SPECIAL) 10"	FOOT	10

SP

CODE NUMBER	PAY ITEM	UNIT	RURAL 80% FED. 20% STATE Y007 TOTAL QUANTITY
61140400	STORM SEWERS, SPECIAL 15"	FOOT	12
61140600	STORM SEWERS, SPECIAL 18"	FOOT	196
63200310	GUARDRAIL REMOVAL	FOOT	378
63500105	DELINEATORS	EACH	2
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	15
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	270
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2083
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	834
70400100	TEMPORARY CONCRETE BARRIER	FOOT	438
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	7200
78300100	PAVEMENT MARKING REMOVAL	SQ FT	636
Z0005400	BREAKER-RUN CRUSHED STONE	TON	230
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0023600	FILLING EXISTING CULVERTS	EACH	1
* Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
* Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0064505	SECTION CORNER MARKERS	EACH	1
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	523

* SPECIALTY ITEMS ● 100% STATE

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PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = Thu Jan 31 06:46:42 2008	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 638	SECTION 136T	COUNTY HENRY	TOTAL SHEETS 34	SHEET NO. 3
CONTRACT NO. 64A57				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 638 (IL 82)	136T	Henry	34	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C57				

See cross sections for special ditches and backslopes.

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.

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.

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

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

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

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Mainline Surface Course	Level Binder	Incidental
PG:	PG 64-22	PG 64-22	PG 58-22
Design Air Voids	4.0 @ N50	4.0 @ N50	4.2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 9.5 or 12.5
Friction Aggregate	C	N/A	C
20 Year ESAL	2.2	2.2	

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.

New number for this structure will be 037-1180.

Cuts for Class C Patch shall be cut with a saw. Patch shall also include tie bars at 2' centers along centerline. This work shall be included in the contract unit price per Square Yard for CLASS C PATCH of the type specified.

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

It shall be up to the Contractor to devise a method of containing the embankment around the temporary sheet piling. This work shall be included in the contract unit price per Square Foot for TEMPORARY SHEET PILING.

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.

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

Existing culvert shall be cleaned to maintain drainage during construction. This work shall be included in the pay item for CONCRETE BOX CULVERTS.

A Precast Box Culvert is not an option on the project due to soil conditions.

The Contractor shall remove all field tile culverts at locations described in the plans. The field tile culverts shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for EARTH EXCAVATION.

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

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

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

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

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

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

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

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.

The Contractor shall protect the existing ROW pins. If damaged, the Contractor shall replace at their cost.

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.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 638 (IL 82)	136T	Henry	34	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C57				

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:

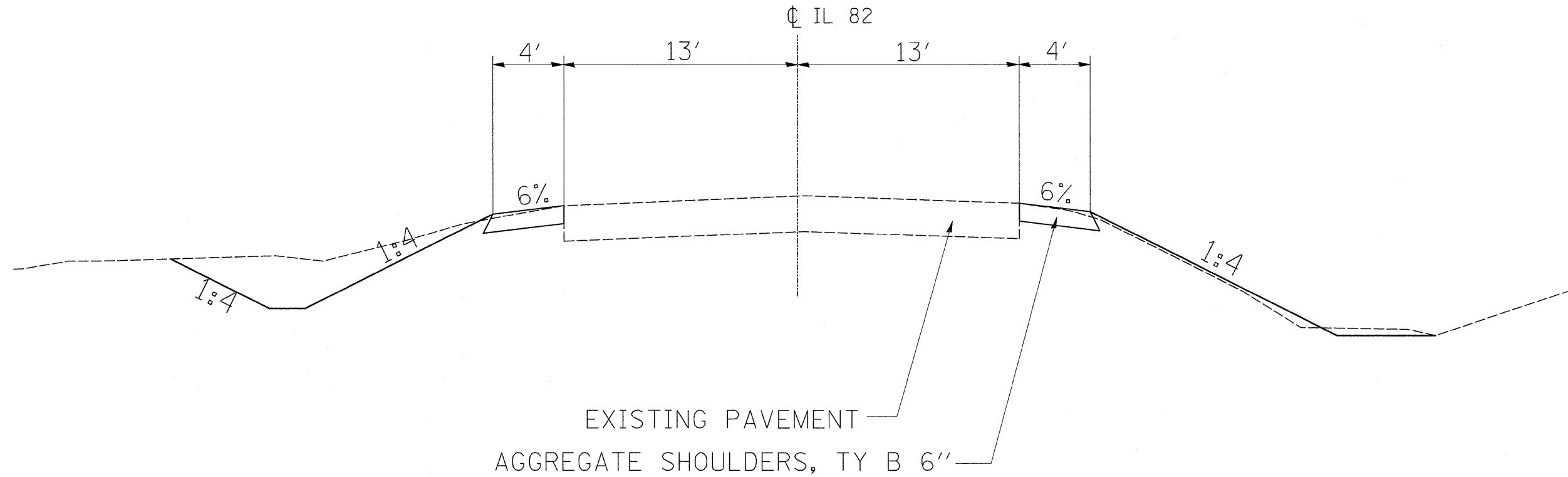
Geneseo Telephone Co.
NICOR Gas Co.

MidAmerican Energy Co.

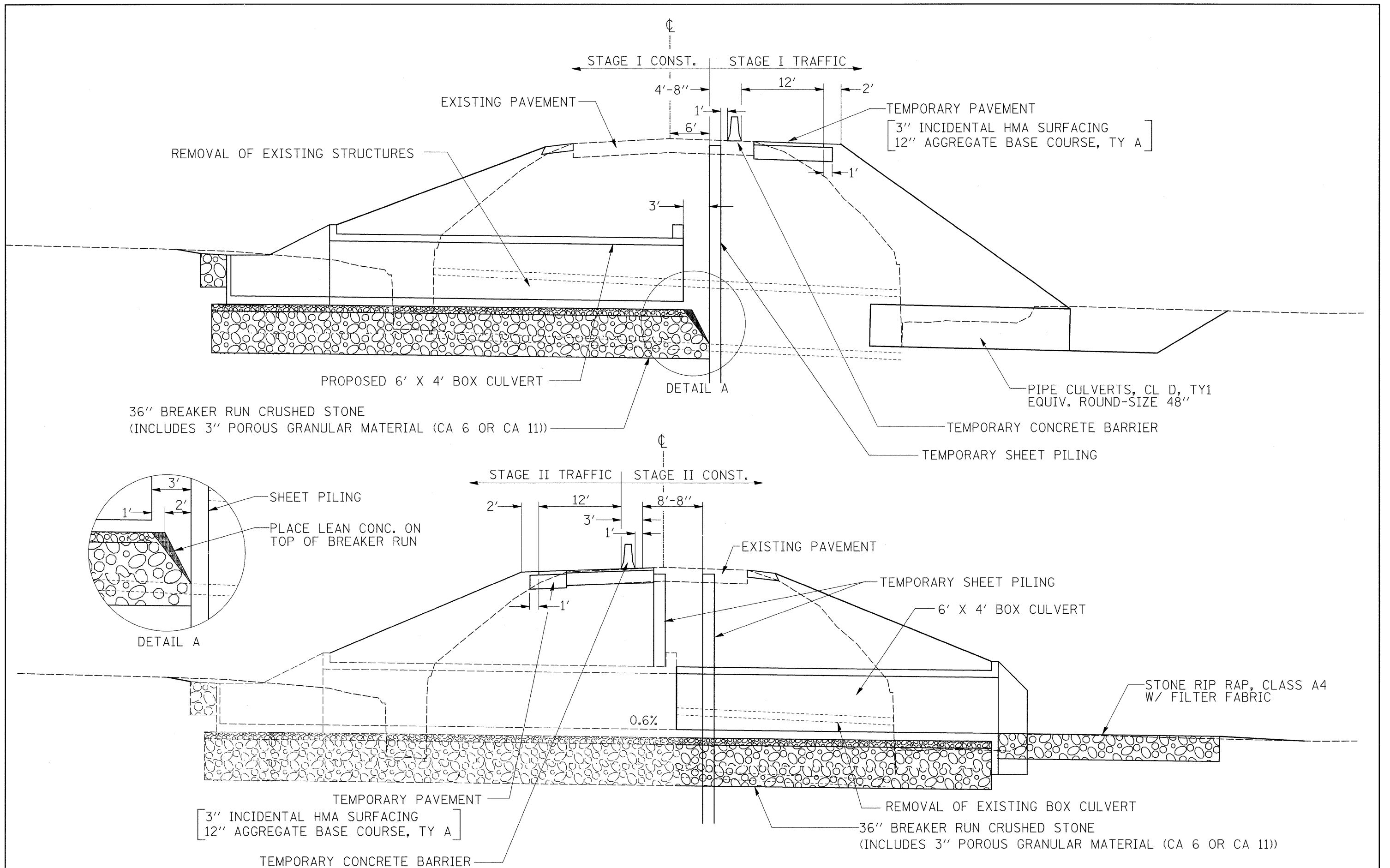
CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any 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.

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

STA 773+00.00 - 775+31.50
 STA 775+81.50 - 779+00.00



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	PLOT DATE = Tue Jan 29 11:47:48 2008	CHECKED -	REVISED -					CONTRACT NO. 64C57				
	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



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PLOT DATE = Tue Jan 29 11:47:48 2008	DATE -	REVISED -	CONTRACT NO. 64C57									
								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			

20200100 EARTH EXCAVATION

CU YD	LOCATION		
388.3	RT Sta.	773+74.0 TO	778+99.0
1140.7	LT Sta.	773+75.0 TO	779+00.0
236.5	RT Sta.	773+00.0 TO	777+75.0
100.0	LT Sta.	773+00.0 TO	779+50.0
1865.5	TOTAL		

REMARKS
STAGE 1A
STAGE 1
STAGE 2
STAGE 3

25000210 SEEDING, CLASS 2A

ACRE	LOCATION		
0.33	LT Sta.	773+00.0 TO	779+00.0
0.37	RT Sta.	773+00.0 TO	779+00.0
0.71	TOTAL		

REMARKS

25000310 SEEDING, CLASS 4

ACRE	LOCATION		
0.14	LT Sta.	773+00.0 TO	779+50.0
0.04	RT Sta.	773+00.0 TO	779+00.0
0.18	TOTAL		

REMARKS

25000350 SEEDING, CLASS 7

ACRE	LOCATION		
0.09	LT Sta.	773+00.0 TO	779+00.0
0.15	RT Sta.	773+00.0 TO	779+00.0
0.24	TOTAL		

REMARKS

25000750 MOWING

ACRE	LOCATION		
0.47	LT Sta.	773+00.0 TO	779+00.0
0.41	RT Sta.	773+00.0 TO	779+00.0
0.49	TOTAL		

25100115 MULCH, METHOD 2

ACRE	LOCATION		
0.47	LT Sta.	773+00.0 TO	779+00.0
0.41	RT Sta.	773+00.0 TO	779+00.0
0.89	TOTAL		

REMARKS

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION		
977.8	LT Sta.	773+50.0 TO	779+00.0
711.2	RT Sta.	773+50.0 TO	777+50.0
1689.0	TOTAL		

REMARKS

Approx - 8' on foreslope, 2' ditch & 6' backslope
Approx - 8' on foreslope, 2' ditch & 6' backslope

28000250 TEMPORARY EROSION CONTRL SEEDING

POUND	LOCATION		
375	LT & RT Sta	773+00.0 TO	779+50.0
375	TOTAL		

REMARKS

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION		
2	LT & RT Sta	773+75.0	
2	LT & RT Sta	774+00.0	
2	LT & RT Sta	774+25.0	
2	LT & RT Sta	774+50.0	
1	LT Sta.	774+75.0	
1	LT Sta.	775+00.0	
1	RT Sta.	776+00.0	
2	LT & RT Sta	776+25.0	
2	LT & RT Sta	776+50.0	
2	LT & RT Sta	776+75.0	
2	LT & RT Sta	777+00.0	
1	LT Sta.	777+25.0	
1	LT Sta.	777+50.0	
1	LT Sta.	777+75.0	
1	LT Sta.	778+00.0	
1	LT Sta.	778+25.0	
1	LT Sta.	778+50.0	
25	TOTAL		

REMARKS

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION		
111.4	LT Sta.	775+01.3 TO	776+01.9
109.1	RT Sta.	774+54.5 TO	775+46.4
220.5	TOTAL		

REMARKS

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION		
56.9	RT Sta.	775+56.5	
12.5	LT Sta.	775+56.5	
69.4	TOTAL		

DIMENSION
16' x 32'

REMARKS
OUTLET OF CULVERT
AROUND 6' X 6' DROP BOX

28200200 FILTER FABRIC

SQ YD	LOCATION		
56.9	RT Sta.	775+56.5	
12.5	LT Sta.	775+56.5	
69.4	TOTAL		

DIMENSION
16' x 32'

REMARKS

35100100 AGGREGATE BASE COURSE, TYPE A

TON	LOCATION		
267.5	RT Sta.	773+36.5 TO	777+61.2
112.2	LT Sta.	773+93.8 TO	777+18.6
379.6	TOTAL		

THICKNESS (in)
12.0
12.0

REMARKS
Stage 1--Temporary run-around
Stage 2--Temporary run-around

40600625 LEVELING BINDER (MACHINE METHOD) N50

TON	LOCATION			THICKNESS (in)	REMARKS
5.1	LT Sta.	775+31.5 TO	775+81.5	1 (calc'd at 1.25)	OVER CLASS C PATCH
5.1	RT Sta.	775+31.5 TO	775+81.5	1 (calc'd at 1.25)	OVER CLASS C PATCH
10.2	TOTAL				

REMARKS
OVER CLASS C PATCH
OVER CLASS C PATCH

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

TON	LOCATION	THICKNESS (In)
6.1	Sta. 775+31.5 TO 775+81.5	1.5
6.1	Sta. 775+31.5 TO 775+81.5	1.5
12.2	TOTAL	

REMARKS
OVER CLASS C PATCH
OVER CLASS C PATCH

542D5503 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 48"

FOOT	LOCATION
35.0	LT Sta. 775+56.5
35.0	TOTAL

REMARKS
STAGE 1 - Temporary Pipe

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

TON	LOCATION	THICKNESS (In)
63.3	Sta. 773+16.5 TO 777+71.2	3
24.7	Sta. 773+83.7 TO 777+28.6	3
88.0	TOTAL	

REMARKS
Stage 1--Temporary run-around
Stage 2--Temporary run-around

61100500 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION	OFFSET (ft)
50.0	LT Sta. 775+56.5	66.3
25.0	LT Sta. 778+55.6	37.7
75.0	TOTAL	

REMARKS
Field tiles
Field tiles

44201359 CLASS C PATCHES, TYPE IV, 10 INCH

SQ YD	LOCATION
72.3	LT Sta. 775+31.5 TO 775+81.5
72.3	RT Sta. 775+31.5 TO 775+81.5
144.6	TOTAL

REMARKS
50 x 13 - One Lane
50 x 13 - One Lane

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA.

EACH	LOCATION	OFFSET (ft)
1	LT Sta. 775+49.7	67.6
1	LT Sta. 775+60.7	66.4
1	LT Sta. 775+73.5	66.7
1	RT Sta. 775+67.3	99.4
1	LT Sta. 778+55.6	37.7
5	TOTAL	

REMARKS

48101200 AGGREGATE SHOULDERS, TYPE B

TON	LOCATION
109.4	LT Sta. 773+00.0 TO 779+00.0
109.4	RT Sta. 773+00.0 TO 779+00.0
218.8	TOTAL

REMARKS

61140000 STORM SEWERS (SPECIAL) 8"

FOOT	LOCATION	OFFSET (ft)
75.7	Sta. 778+55.4	36.72' LT to 38.83' RT
75.7	TOTAL	

REMARKS

50100100 REMOVAL OF EXISTING STRUCTURES

EACH	LOCATION
1	Sta. 775+56.5
1	TOTAL

REMARKS
EXISTING 6' X 4' BOX CULVERT

61140100 STORM SEWERS (SPECIAL) 10"

FOOT	LOCATION	OFFSET (ft)
10.0	LT Sta. 775+73.5 To 775+60.7	53.03' LT to 52.74' LT
10.0	TOTAL	

REMARKS

50104400 CONCRETE HEADWALL REMOVAL

EACH	LOCATION
2	Sta. 778+53.5
2	TOTAL

REMARKS
See special provision

61140400 STORM SEWERS, SPECIAL 15"

FOOT	LOCATION	OFFSET (ft)
12.0	LT Sta. 775+49.7 to 775+59.6	67.57' LT to 66.50' LT
12.0	TOTAL	

REMARKS

51205200 TEMPORARY SHEET PILING

SQ FT	LOCATION
1200.0	Sta. 775+56.5
160.0	Sta. 775+56.5
1360.0	TOTAL

REMARKS
STAGE 1
STAGE 2

61140600 STORM SEWERS, SPECIAL 18"

FOOT	LOCATION	OFFSET (ft)	REMARKS
166.0	Sta. 775+60.7	66.38' LT to 99.40' R	15 degree bend or less to get around End Section
30.0	Sta. 775+67.3	99.40' RT to 118' RT	Use to drain into ditch
196.0	TOTAL		

REMARKS

51500100 NAME PLATES

EACH	LOCATION
1	Sta. 775+56.5
1	TOTAL

REMARKS

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION
177.0	LT Sta. 774+68.3 TO 776+44.2
201.0	RT Sta. 774+54.3 TO 776+54.6
378.0	TOTAL

REMARKS
During Stage I
Prior to Stage 1

FILE NAME = c:\projects\p210006\d10006cwr.dgn

USER NAME = grantpm
PLOT SCALE = 50.0000' / IN.
PLOT DATE = Thu Jan 31 07:04:50 2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

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.
638	136T	HENRY	34	10
CONTRACT NO. 64A57				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

63500105 DELINEATORS

EACH	LOCATION
2	LT & RT Sta 775+56.5
2	TOTAL

REMARKS
At ends of culvert

70300570 PAVEMENT MARKING TAPE, TYPE III 24"

FOOT	LOCATION
12.0	RT Sta. 771+51.8
12.0	LT Sta. 779+09.1
24.0	TOTAL

REMARKS
STOP BAR STAGE 1 & 2
STOP BAR STAGE 1 & 2

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION	OFFSET (ft)
1	LT Sta. 775+00.94	55' LT
1	LT Sta. 775+35.00	70' LT
1	LT Sta. 775+80.00	70' LT
1	LT Sta. 776+50.00	60' LT
1	LT Sta. 777+50.00	85' LT
1	LT Sta. 778+50.00	45' LT
1	LT Sta. 779+00.00	40' LT
1	RT Sta. 773+00.00	40' RT
1	RT Sta. 774+00.00	45' RT
1	RT Sta. 775+00.19	65' RT
1	RT Sta. 775+35.00	105' RT
1	RT Sta. 775+80.00	105' RT
1	RT Sta. 776+00.00	65' RT
1	RT Sta. 777+00.00	60' RT
1	RT Sta. 778+00.00	40' RT
15	TOTAL	

REMARKS

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SO FT	LOCATION
230.0	LT Sta. 772+11.6 TO 778+98.3
152.0	RT Sta. 773+26.5 TO 777+60.4
205.0	RT Sta. 772+28.2 TO 778+39.3
109.0	LT Sta. 773+93.8 TO 777+18.5
24.0	RT Sta. 771+51.8
24.0	LT Sta. 779+09.1
30.0	Sta. 775+31.5 TO 775+81.5
60.0	Sta. 775+31.5 TO 775+81.5
834.0	TOTAL

REMARKS
STAGE 1 - Inside, white
STAGE 1 - Outside, white
STAGE 2 - Inside, white
STAGE 2 - Outside, white
STOP BAR STAGE 1 & 2
STOP BAR STAGE 1 & 2
CL dbi yellow - Use between staging & permanent paint
2 Edge Lines - Use between staging & permanent paint

66700305 PERMANENT SURVEY MARKERS TYPE II

EACH	LOCATION
2.0	ENTIRE JOB
2.0	TOTAL

REMARKS

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
437.5	RT Sta. 772+44.5 TO 777+68.5
437.5	TOTAL

STAGE 1

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
325.0	RT Sta. 773+94.3 TO 777+18.7
325.0	TOTAL

STAGE 2

70106700 TEMPORARY RUMBLE STRIP

EACH	LOCATION
1	RT Sta. 754+51.7
1	RT Sta. 759+51.7
1	RT Sta. 764+51.7
1	LT Sta. 786+09.7
1	LT Sta. 791+09.7
1	LT Sta. 796+09.7
6	TOTAL

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
3600.0	Sta. 771+00.0 TO 780+00.0
3600.0	Sta. 771+00.0 TO 780+00.0
7200.0	TOTAL

REMARKS
2 YELLOW CENTERLINE - TWO COATS
2 WHITE EDGE LINES - TWO COATS

70300100 SHORT-TERM PAVEMENT MARKING

FOOT	LOCATION
90.0	Sta. 771+00.0 TO 780+00.0
180.0	Sta. 771+00.0 TO 780+00.0
270.0	TOTAL

REMARKS
CL - Use between staging & permanent paint
2 Edge Lines - Use between staging & permanent paint

78300100 PAVEMENT MARKING REMOVAL

SO FT	LOCATION
206.0	Sta. 771+51.8 TO 774+60.0
174.0	Sta. 776+50.0 TO 779+09.1
146.0	Sta. 773+26.4 TO 777+60.4
110.0	Sta. 773+93.8 TO 777+18.6
636.0	TOTAL

REMARKS
Existing CL - Dbi Yellow (STAGE 1)(will also rem for stage 2)
Existing CL - Dbi Yellow (STAGE 1)(will also rem for stage 2)
Existing Edgeline RT (STAGE 1)
Existing Edgeline LT (STAGE 2)

70300520 PAVEMENT MARKING TAPE, TYPE III 4"

FOOT	LOCATION
689.0	RT Sta. 772+11.6 TO 778+98.3
456.0	RT Sta. 773+26.5 TO 777+60.4
613.0	LT Sta. 772+28.2 TO 778+39.3
325.0	LT Sta. 773+93.8 TO 777+18.5
2083.0	TOTAL

REMARKS
STAGE 1 - Inside, white
STAGE 1 - Outside, white
STAGE 2 - Inside, white
STAGE 2 - Outside, white

Z0005400 BREAKER-RUN CRUSHED STONE

TON	LOCATION	THICKNESS (in)
229.6	Sta. 775+56.5	36
229.6	TOTAL	

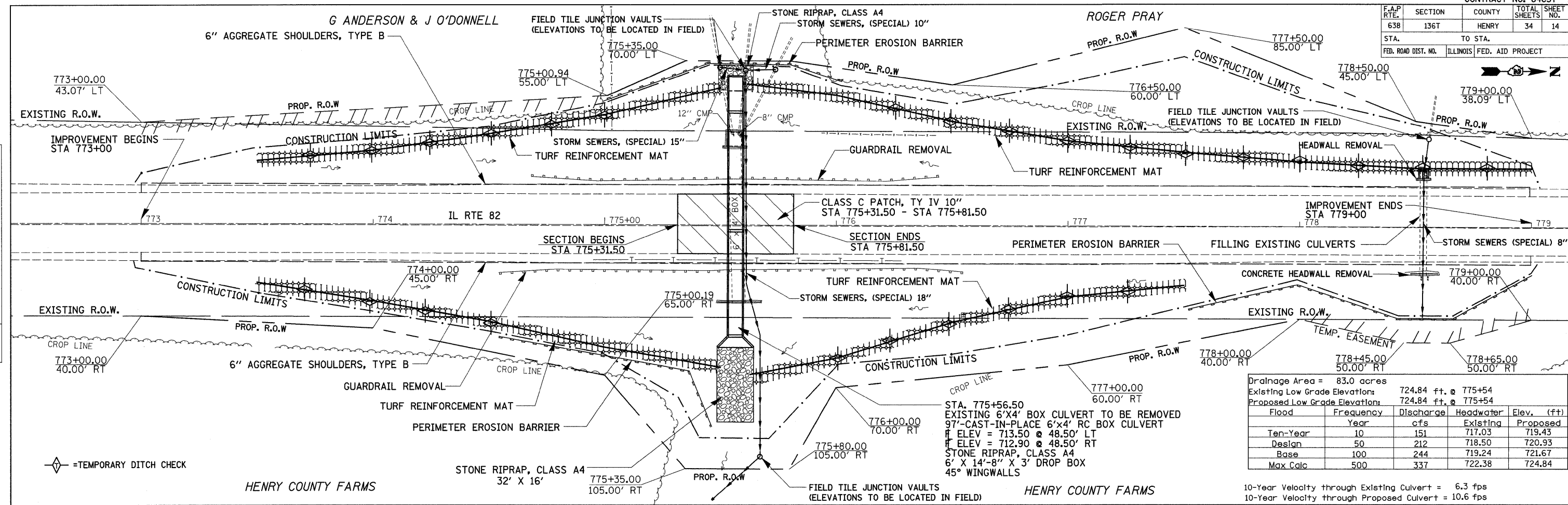
REMARKS
9 x 112 UNDER CULVERT & DROP BOX
(Includes 3" of Porous Granular Material)

Z0023600 FILLING EXISTING CULVERTS

EACH	LOCATION
1	Sta. 775+56.5
1	TOTAL

TO MAINTAIN DRAINAGE DURING CONSTRUCTION

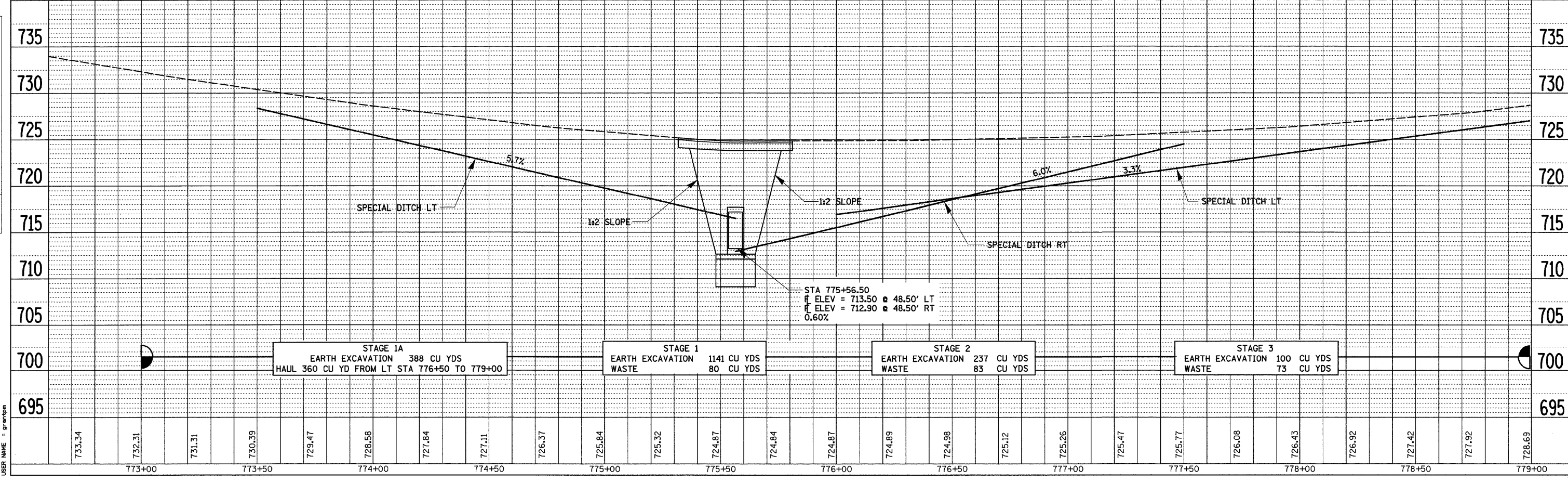
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT



Drainage Area = 83.0 acres
 Existing Low Grade Elevation: 724.84 ft. @ 775+54
 Proposed Low Grade Elevation: 724.84 ft. @ 775+54

Flood Year	Frequency	Discharge cfs	Headwater Existing	Elev. (ft) Proposed
Ten-Year	10	151	717.03	719.43
Design	50	212	718.50	720.93
Base	100	244	719.24	721.67
Max Calc	500	337	722.38	724.84

10-Year Velocity through Existing Culvert = 6.3 fps
 10-Year Velocity through Proposed Culvert = 10.6 fps



DATE: _____ BY: _____
 SURVEYED: _____ ALIGNED: _____ CHECKED: _____
 PLAN: _____ NOTE BOOK: _____ NO. OF WAYS CHECKED: _____
 NO. _____

DATE: _____ BY: _____
 SURVEYED: _____ GRADES CHECKED: _____
 PROFILE: _____ ELEV. NOTED: _____
 NO. _____

PLOT DATE: Tue Jan 29 11:46:43 2008
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 PLOT SCALE: 1" = 20' / IN
 USER NAME: gremson

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1

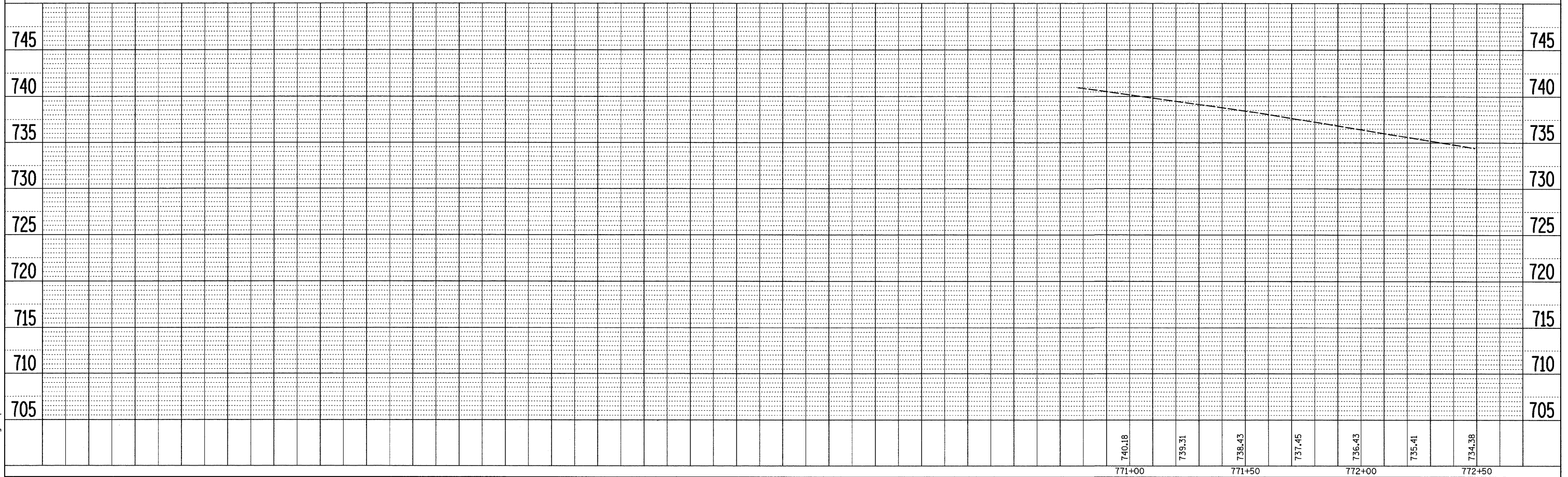
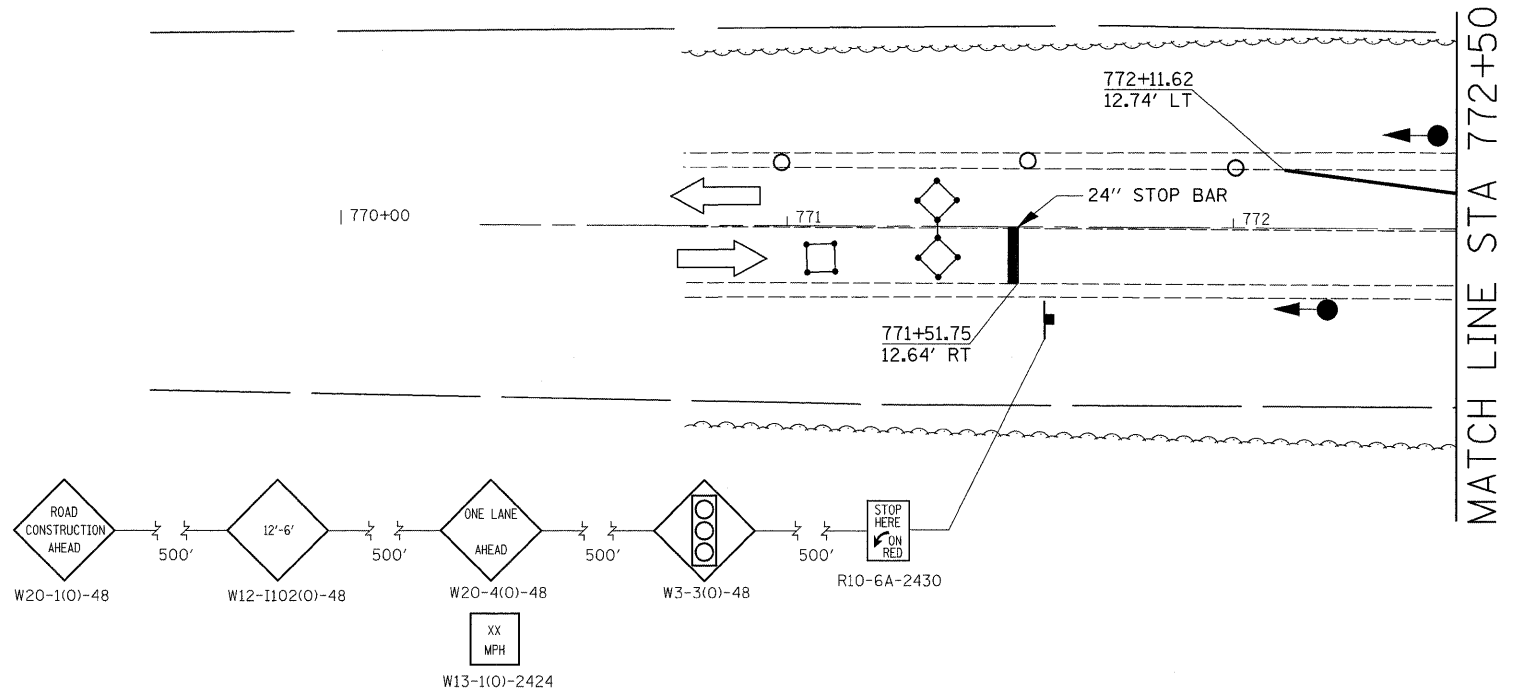
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NOTE BOOK NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	FIELD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	E.M. NOTED		
	STRUCTURE NOTATIONS OK'D		

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 USER NAME = grantgm

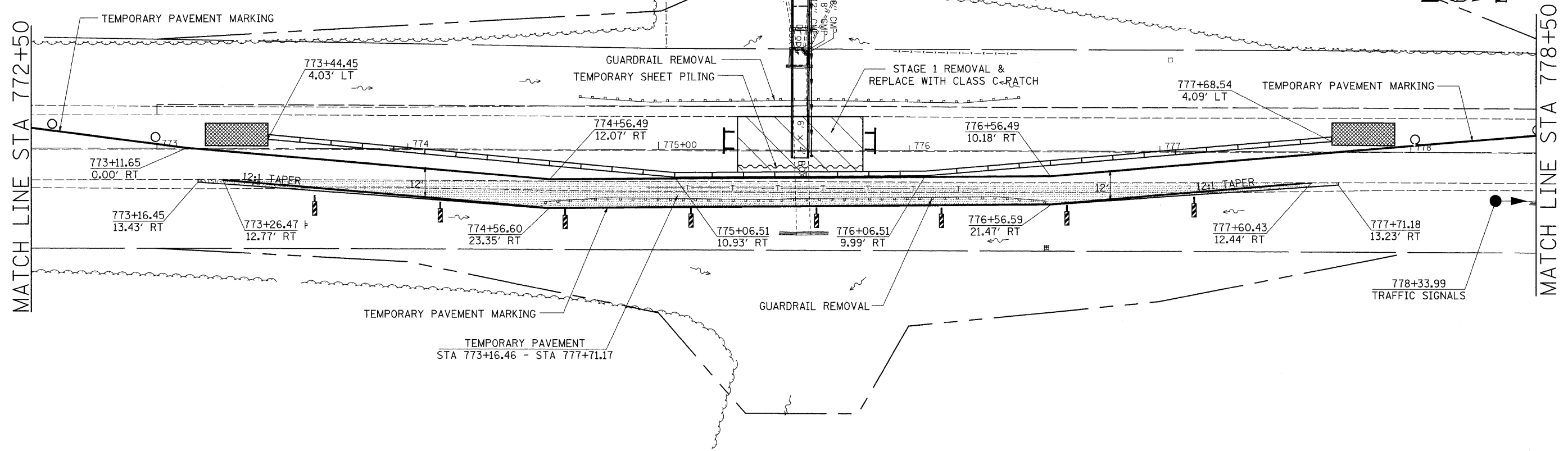
LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DRUM WITH STEADY BURNING LIGHT
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
- = TRAFFIC SIGNAL
- = INDUCTION LOOP DETECTOR
- = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 1



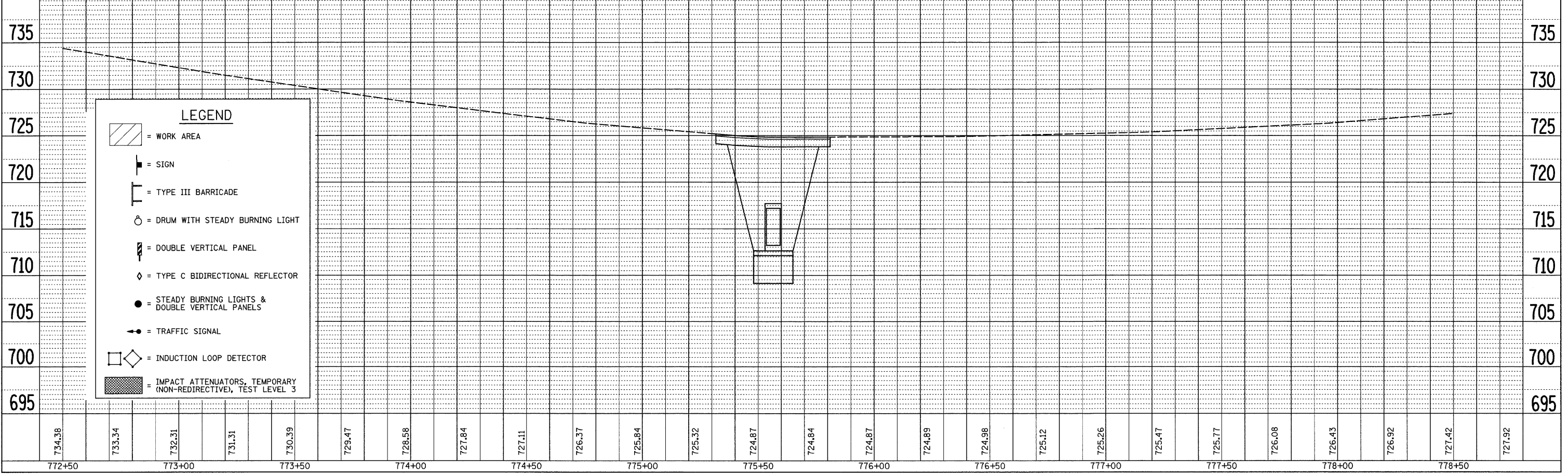
DATE	BY
DATE	BY

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

DATE	BY
DATE	BY

SURVEYED _____
 GRADES CHECKED _____
 RT. NOTED _____
 NO. _____
 PROFILE NO. _____

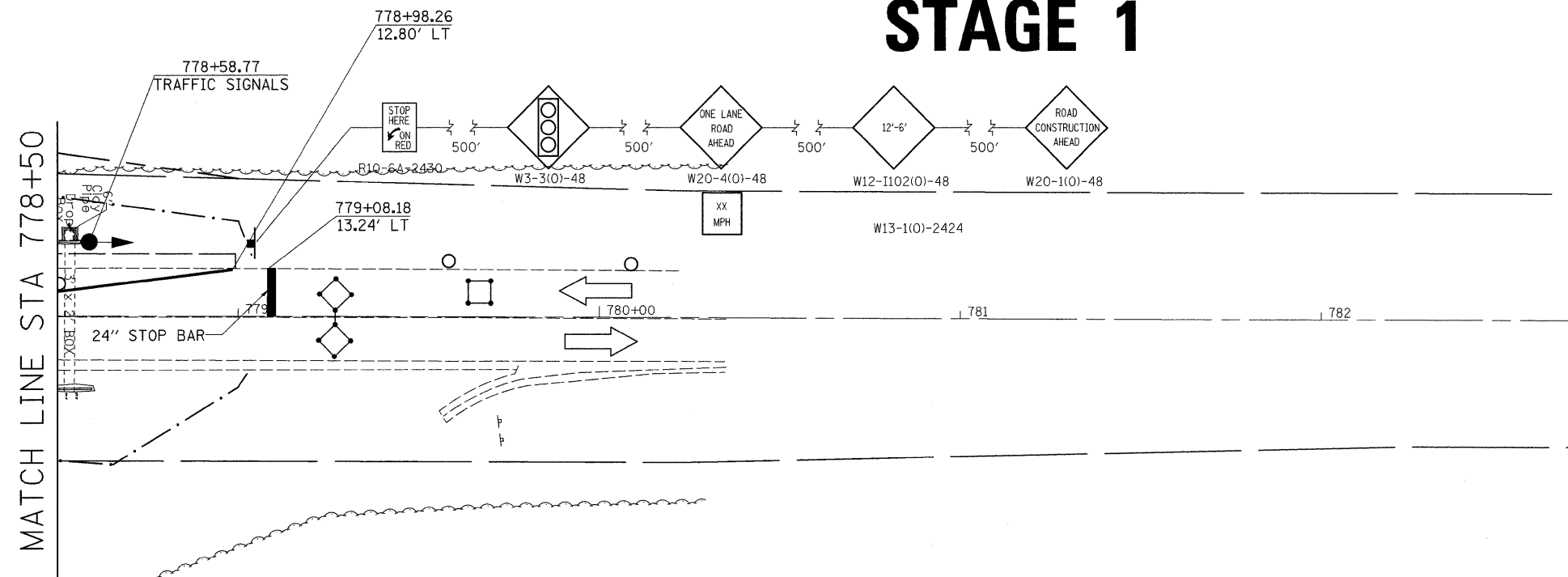
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 USER NAME = ggrant



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	17

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

STAGE 1



LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DRUM WITH STEADY BURNING LIGHT
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
- = TRAFFIC SIGNAL
- = INDUCTION LOOP DETECTOR
- = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

PLAN

DATE	BY

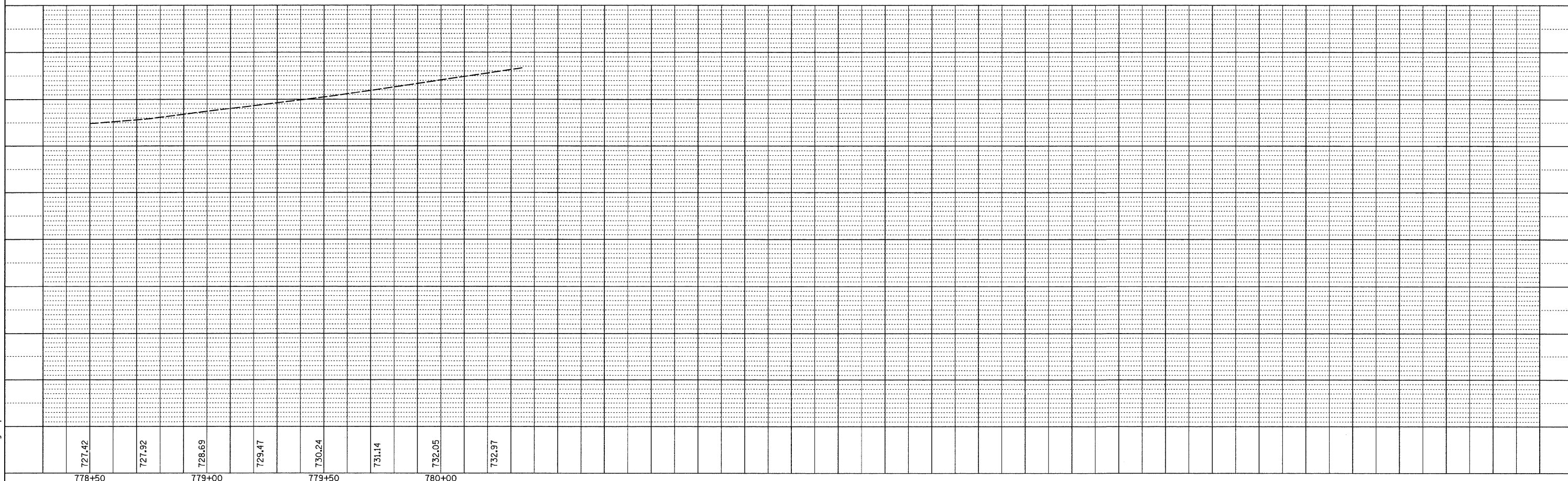
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 ALIGNED CHECKED _____
 RT. OF WAY CHECKED _____
 NO. _____
 FILE NAME _____

PROFILE

DATE	BY

SURVEYED _____
 GRADES CHECKED _____
 E.M. NOTED _____
 NO. _____
 STRUCTURE NOTATIONS CHKD _____

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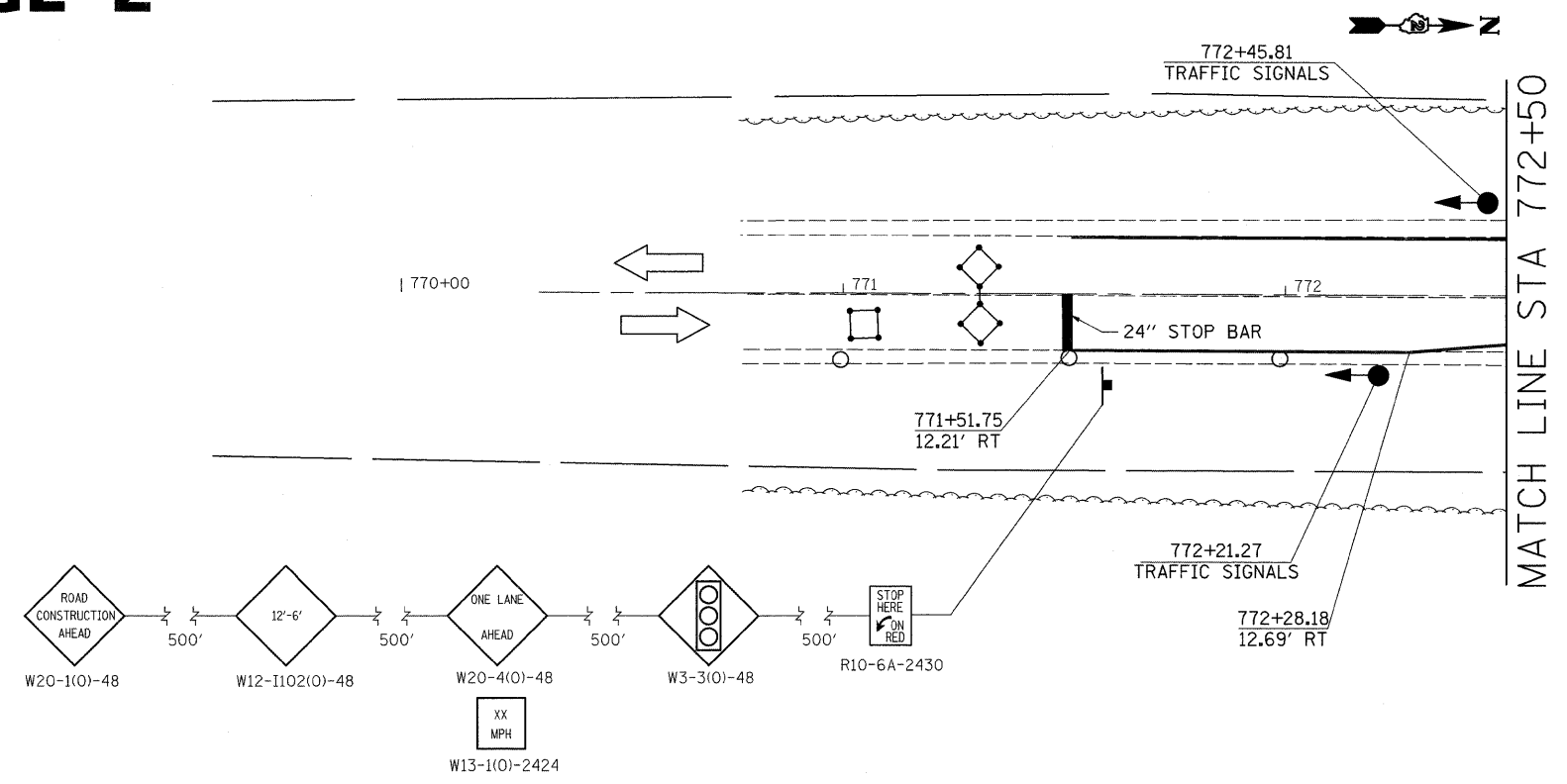


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2

LEGEND

- = WORK AREA
- = SIGN
- = TYPE III BARRICADE
- = DRUM WITH STEADY BURNING LIGHT
- = DOUBLE VERTICAL PANEL
- = TYPE C BIDIRECTIONAL REFLECTOR
- = STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
- = TRAFFIC SIGNAL
- = INDUCTION LOOP DETECTOR
- = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3



PLAN

DATE	BY

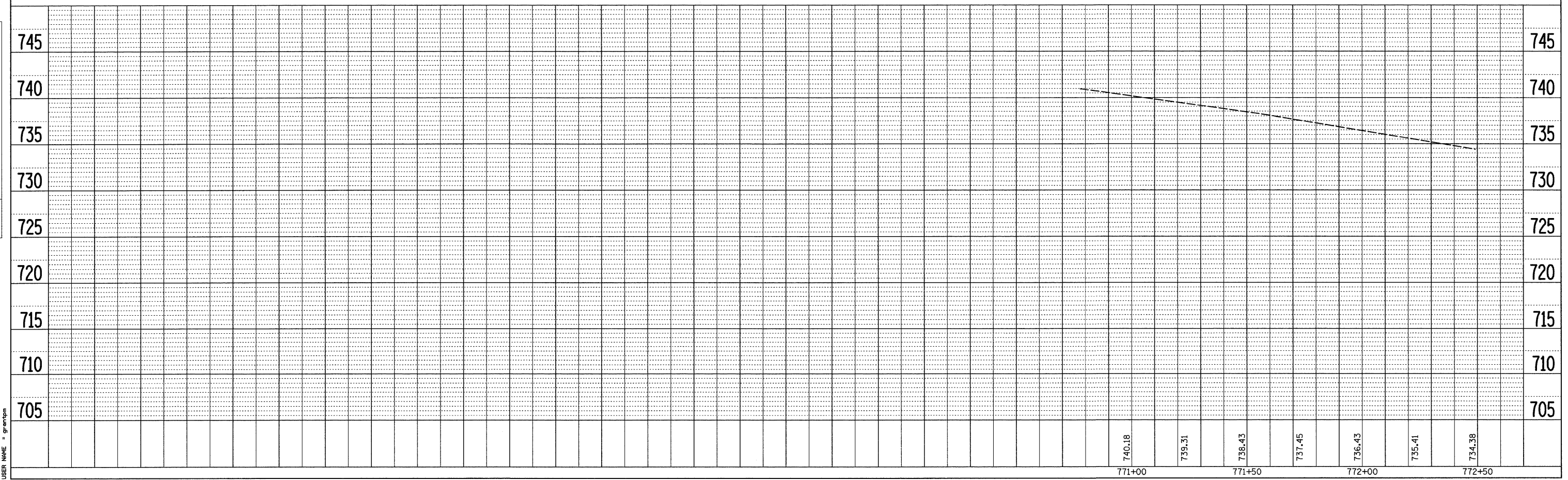
SURVEYED _____
 ALIGNED _____
 RT. OF WAY CHECKED _____
 NOTE BOOK NO. _____
 ROAD FILE NAME _____

PROFILE

DATE	BY

SURVEYED _____
 GRADES CHECKED _____
 E.M. NOTES _____
 STRUCTURE NOTATIONS CHECKED _____
 NOTE BOOK NO. _____
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 USER NAME = gremson

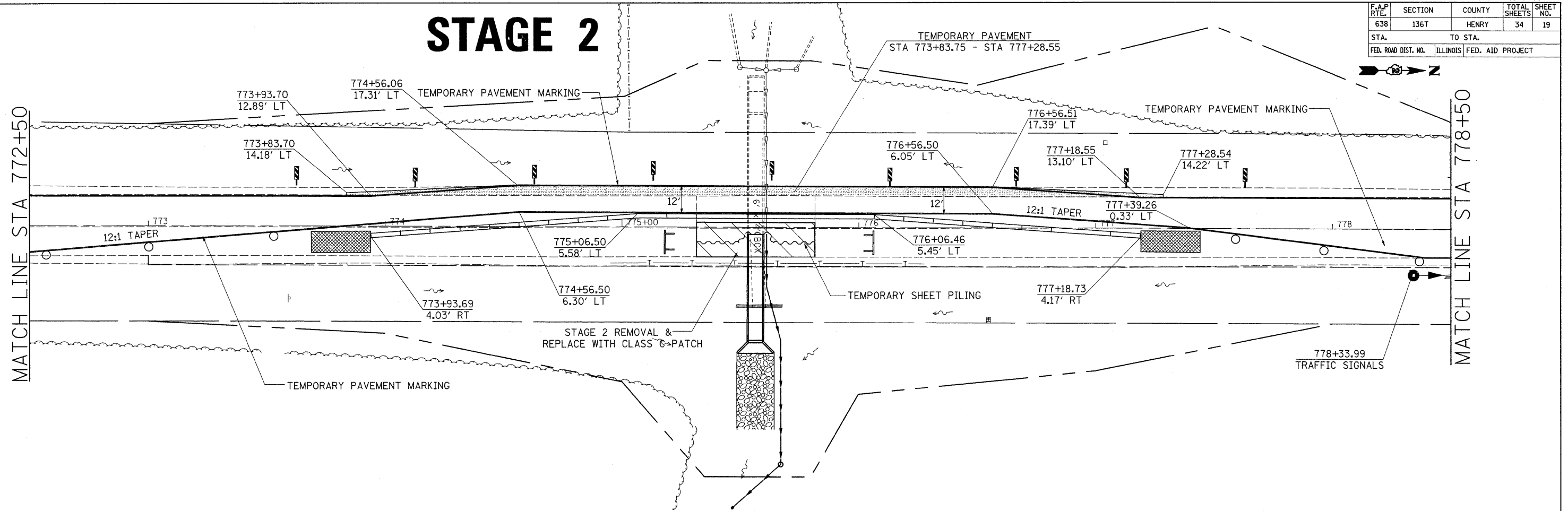


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2

MATCH LINE STA 772+50

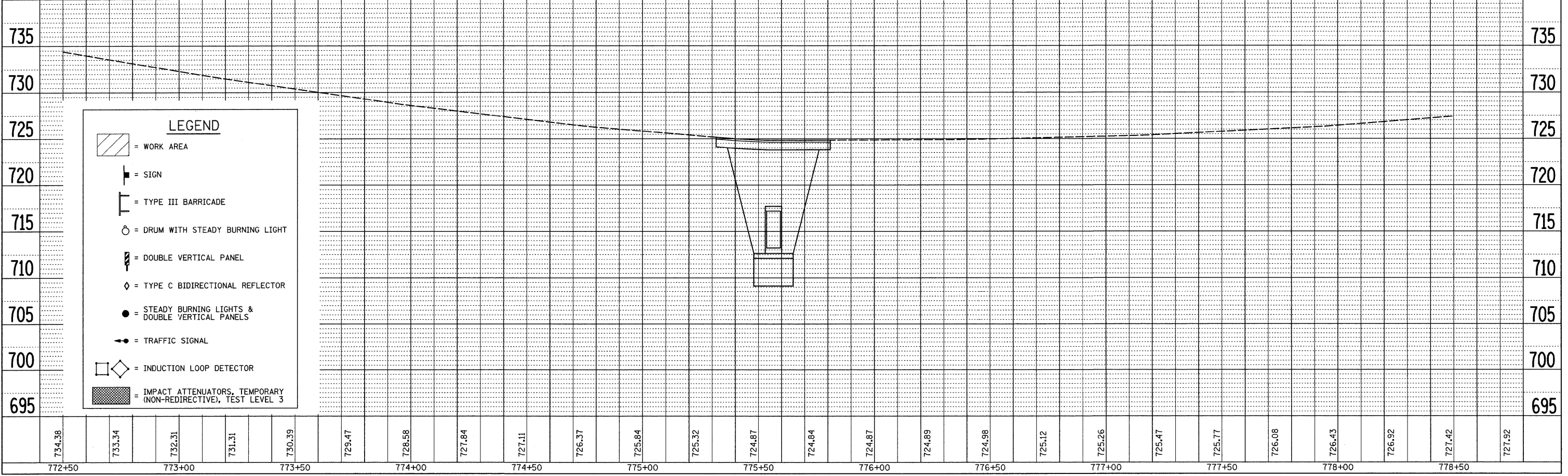
MATCH LINE STA 778+50



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	RT. OF WAY CHECKED	
	ROAD FILE NAME	

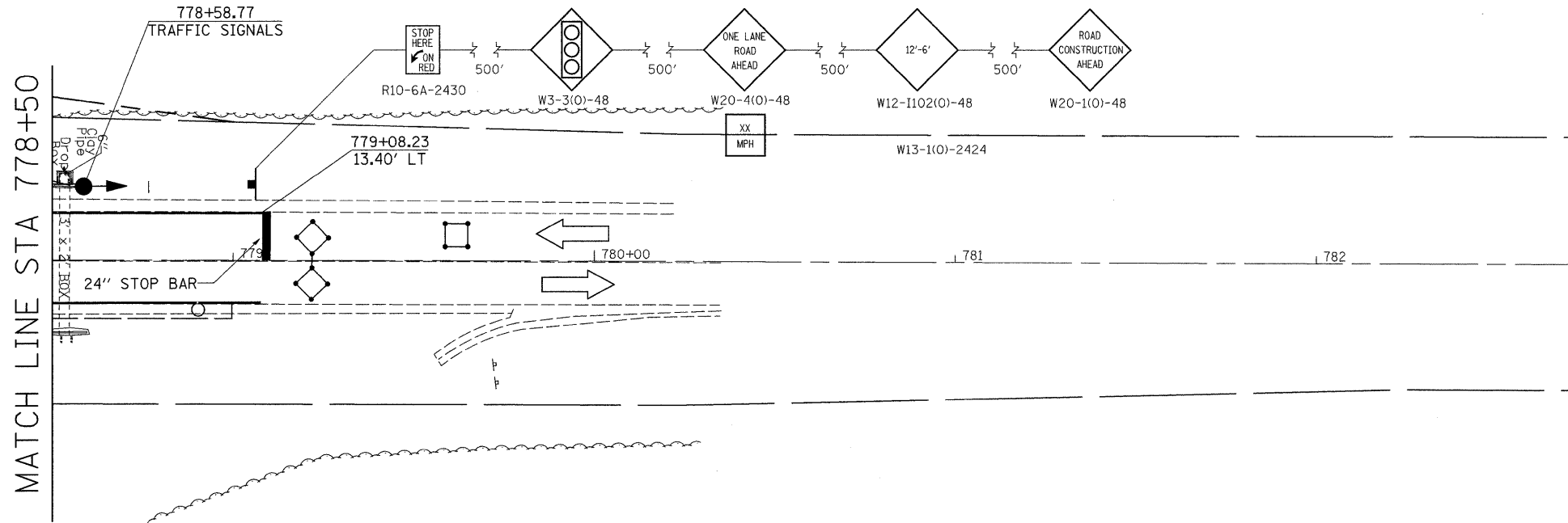
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NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE NOTATIONS OK'D	

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 PLOT SCALE = 211765 / IN
 USER NAME = gremph



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STAGE 2

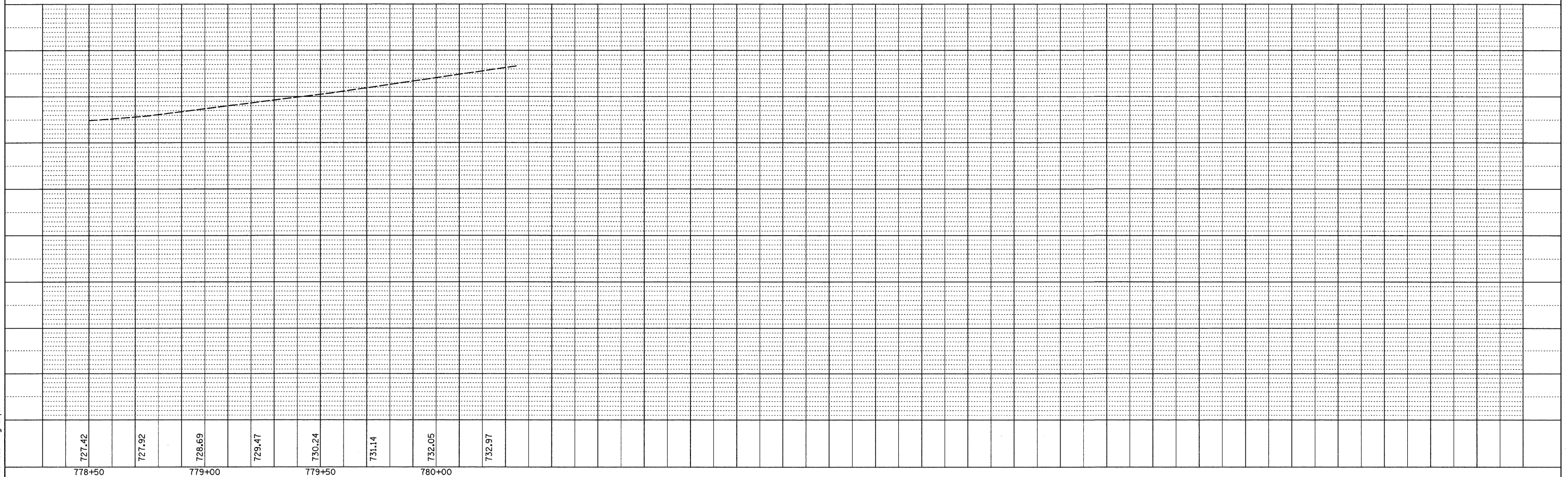


LEGEND	
	= WORK AREA
	= SIGN
	= TYPE III BARRICADE
	= DRUM WITH STEADY BURNING LIGHT
	= DOUBLE VERTICAL PANEL
	= TYPE C BIDIRECTIONAL REFLECTOR
	= STEADY BURNING LIGHTS & DOUBLE VERTICAL PANELS
	= TRAFFIC SIGNAL
	= INDUCTION LOOP DETECTOR
	= IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

PLAN	DATE
SURVEYED	
ALIGNED	
BY	
NOTE BOOK NO.	
FILE NAME	

PROFILE	DATE
SURVEYED	
GRADES CHECKED	
BY	
NOTE BOOK NO.	
FILE NAME	

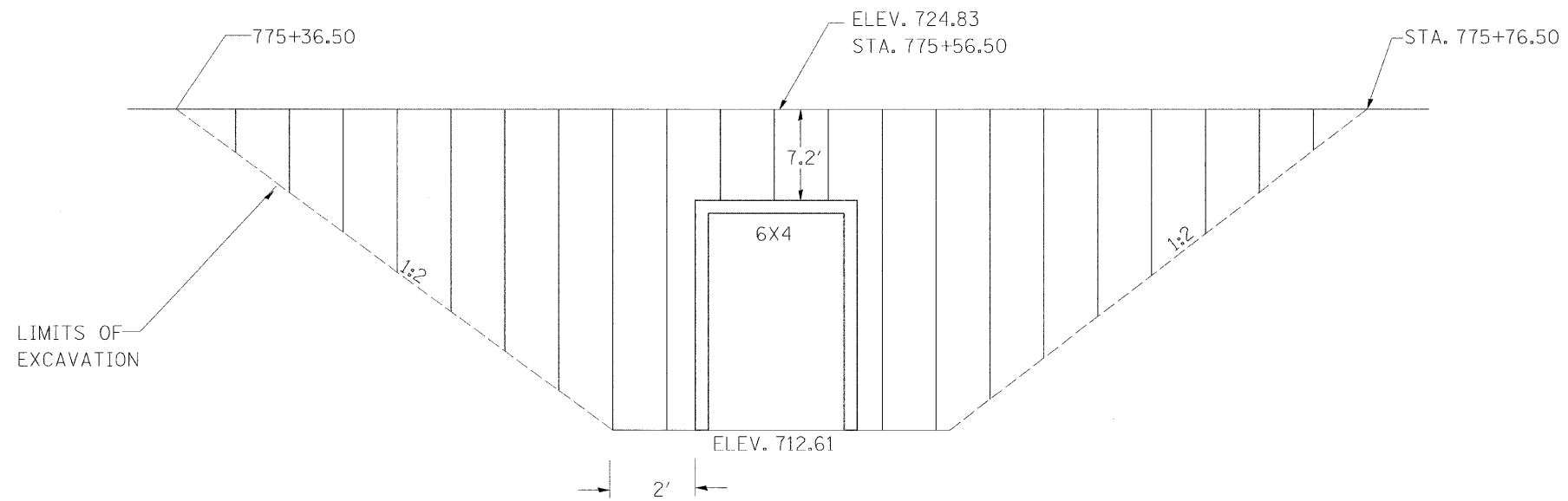
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BOX CULVERT TEMP SOIL RETENTION SYSTEM

6 X 4 BOX CULVERT

STA. 775+56.50



TEMPORARY SOIL RETENTION SYSTEM STAGE I

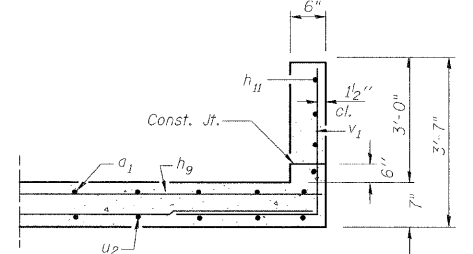
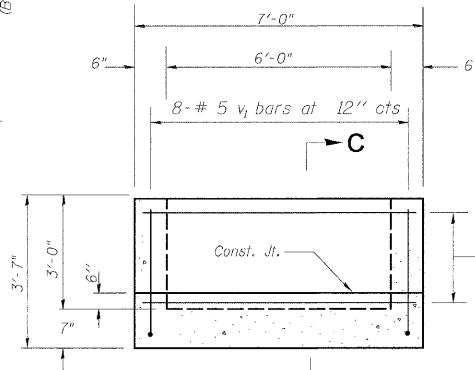
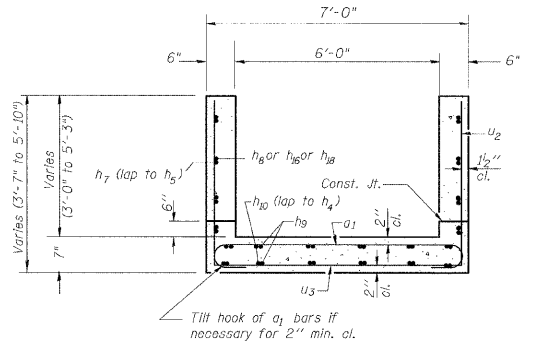
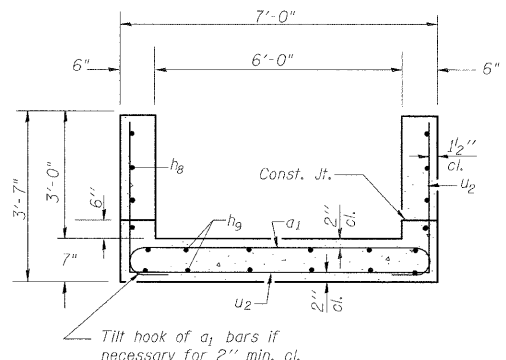
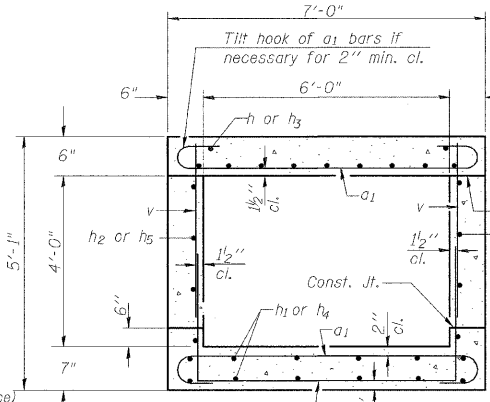
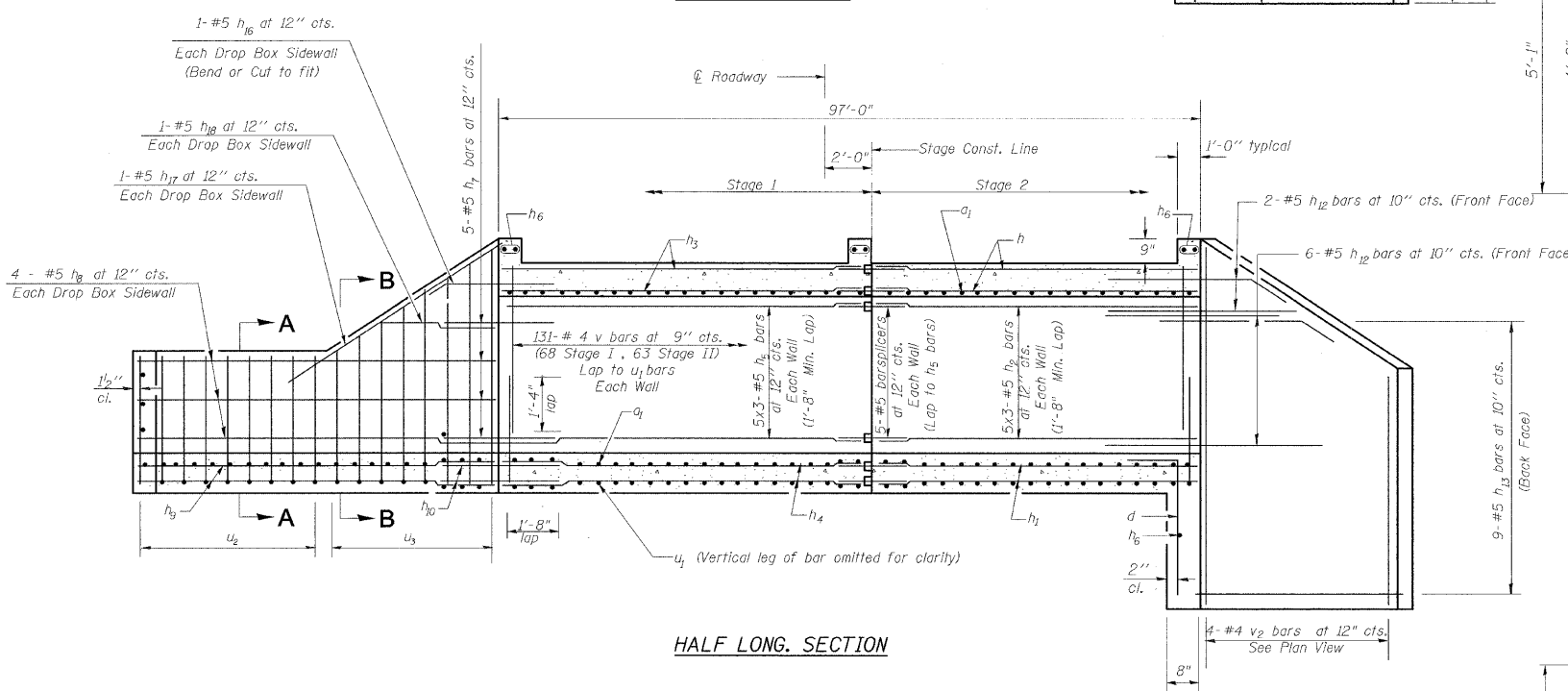
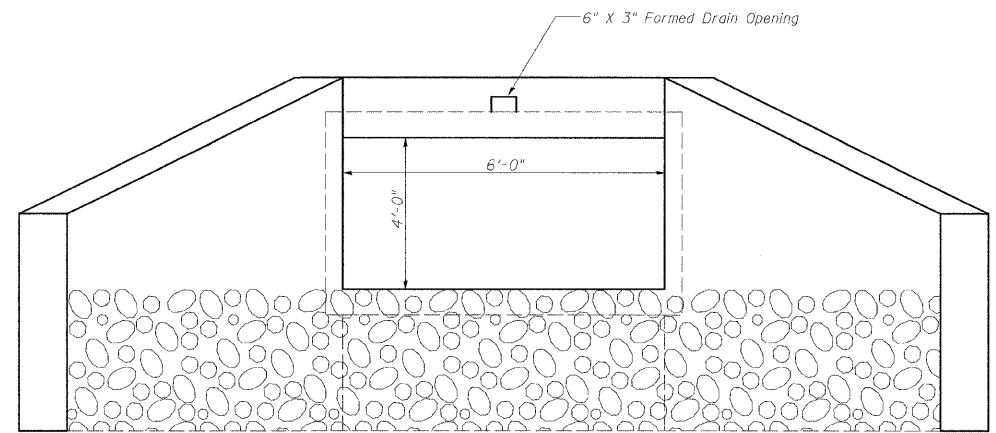
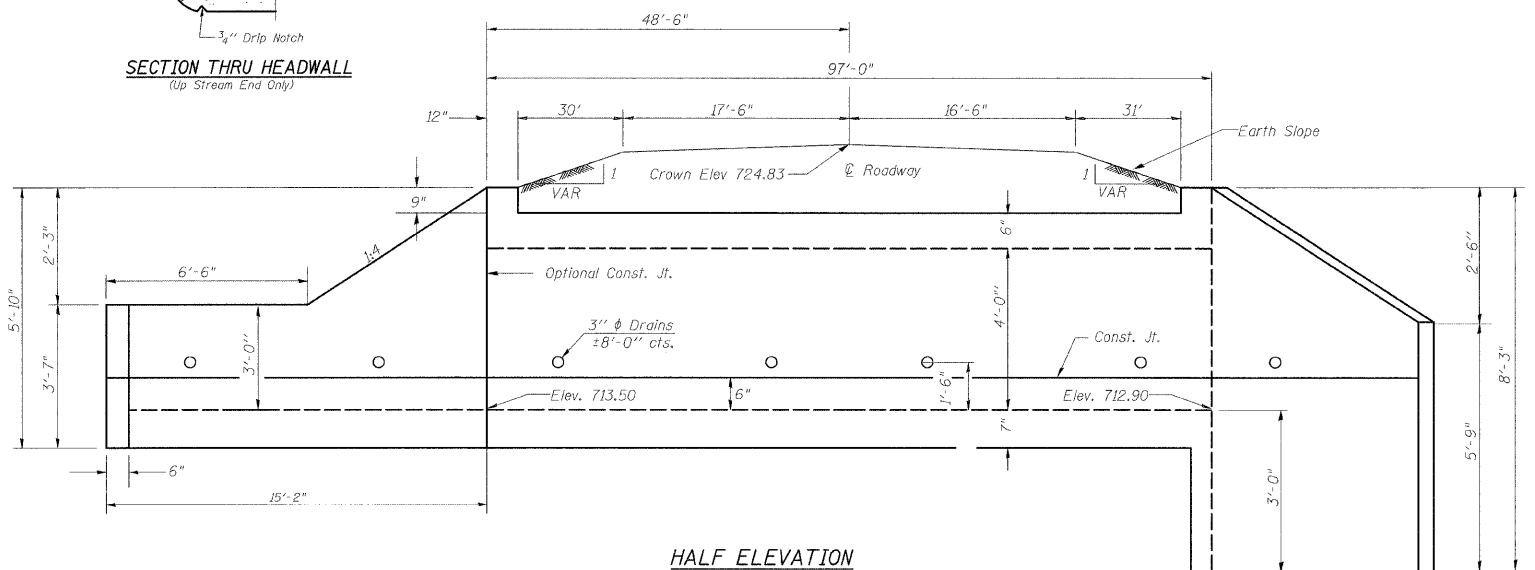
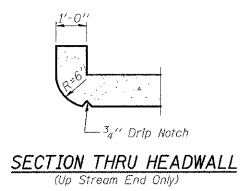
TOTAL AREA
323 FT²

NOTES:

See Special Provisions.

Plan dimensions and details relative to existing structures have been taken from field survey. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SOIL RETENTION SYSTEM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			638	136T	HENRY	34	21	
PLOT SCALE = #SCALE#		CHECKED -	REVISED -			CONTRACT NO. 64C57					
PLOT DATE = #DATE#		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: _____	SHEET NO. ___ OF ___ SHEETS		STA. _____ TO STA. _____			



NOTES

- Precast option is not allowed.
- A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
- Reinforcement Bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions
- Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
- All construction joints shall be bonded.

DESIGN STRESSES
 $f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$

LOADING HS 20-44 & ALT.

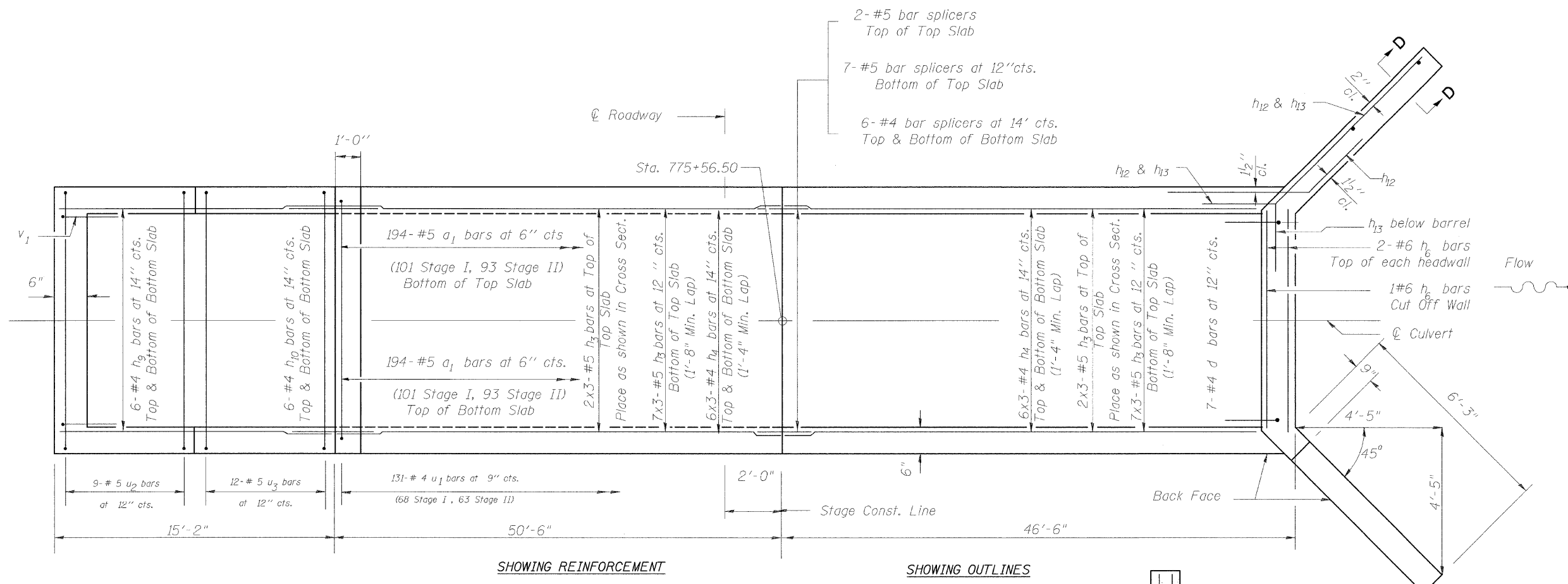
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#FILE#		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS

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

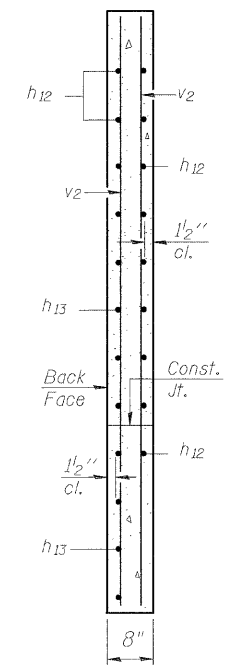
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	22
CONTRACT NO. 64C57				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN



SECTION D-D


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISD -
#FILEL#		DRAWN -	REVISD -
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	PLOT DATE = #DATE#	DATE -	REVISD -

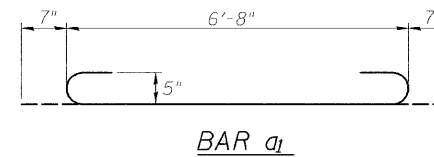
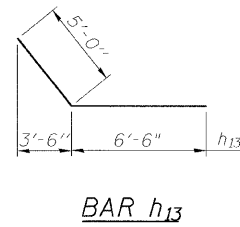
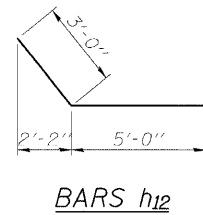
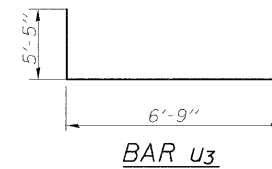
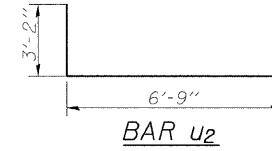
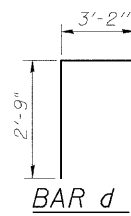
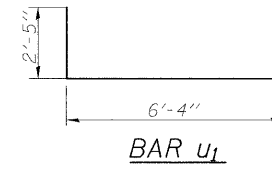
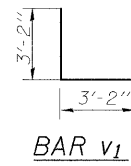
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	31	23
SCALE: _____			SHEET NO. OF _____ SHEETS	
STA. _____ TO STA. _____			CONTRACT NO. 64C57	
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	418	#5	7'-10"	
d	7	#4	5'-11"	
h	27	#5	16'-6"	—
h ₁	36	#4	16'-3"	—
h ₂	30	#5	16'-6"	—
h ₃	27	#5	18'-6"	—
h ₄	36	#4	18'-2"	—
h ₅	30	#5	18'-6"	—
h ₆	7	#5	6'-8"	—
h ₇	10	#5	3'-8"	—
h ₈	8	#5	14'-11"	—
h ₉	12	#4	14'-11"	—
h ₁₀	12	#4	3'-0"	—
h ₁₁	4	#5	6'-8"	—
h ₁₂	2	#5	8'-0"	
h ₁₃	2	#5	11'-6"	
h ₁₆	2	#5	4'-8"	—
h ₁₇	2	#5	11'-0"	—
h ₁₈	2	#5	6'-9"	—
v	262	#4	3'-8"	—
v ₁	8	#5	6'-4"	
v ₂	8	#4	8'-0"	—
u ₁	129	#4	11'-2"	
u ₂	9	#5	13'-1"	
u ₃	12	#5	17'-7"	
Concrete Box Culverts		Cu. Yd.	52.3	
Reinforcement Bars		Pound	8870	
Bar Splicers		Each	31	



FILE NAME =	USER NAME = #USER#	DESIGNED - ---	REVISED - ---
#FILE#		DRAWN - ---	REVISED - ---
		CHECKED - ---	REVISED - ---
		DATE - ---	REVISED - ---

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CULVERT DETAILS

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

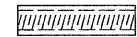
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	24
FED. ROAD DIST. NO. _____			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64C57	

STA 284 + 80.47

The diameter of this part is equal or larger than the diameter of bar spliced.

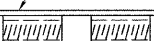
The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

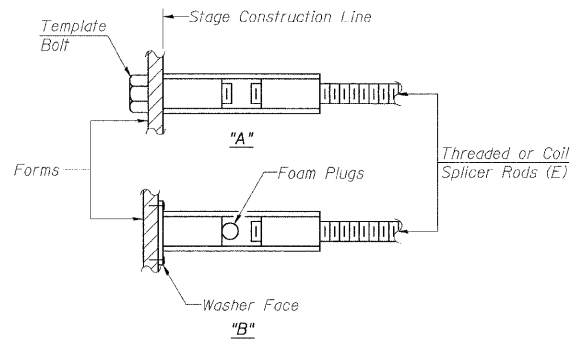
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

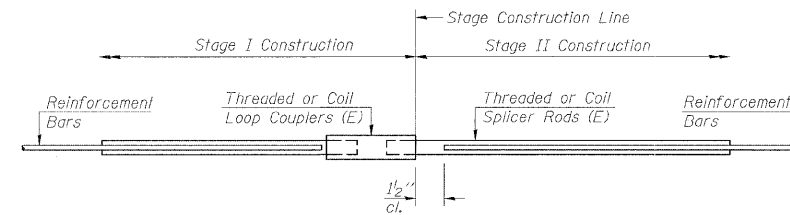
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - Tension	Min. Pull-Out Strength kips - Tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



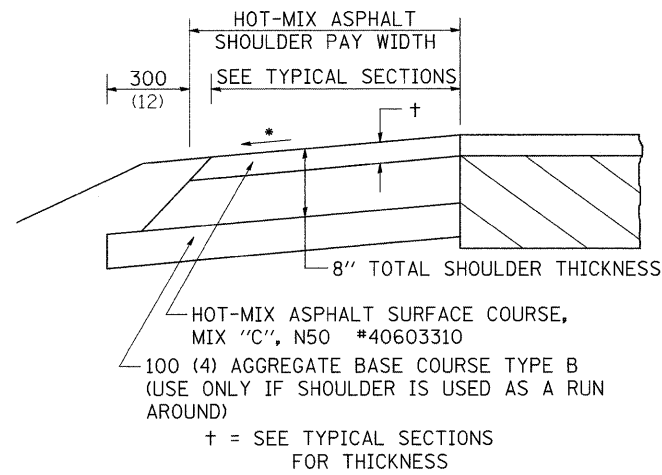
STANDARD

Bar Size	No. Assemblies Required	Location
#5	9	Top Slab
#5	10	Side Walls
#5	12	Bottom Slab

BAR SPLICER ASSEMBLY DETAILS

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN -	REVISED -			638	136T	HENRY	34	25
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 64C57		
	PLOT DATE = *DATE*	DATE -	REVISED -			SCALE: _____	SHEET NO. OF _____ SHEETS	STA. _____ TO STA. _____		

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

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

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

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

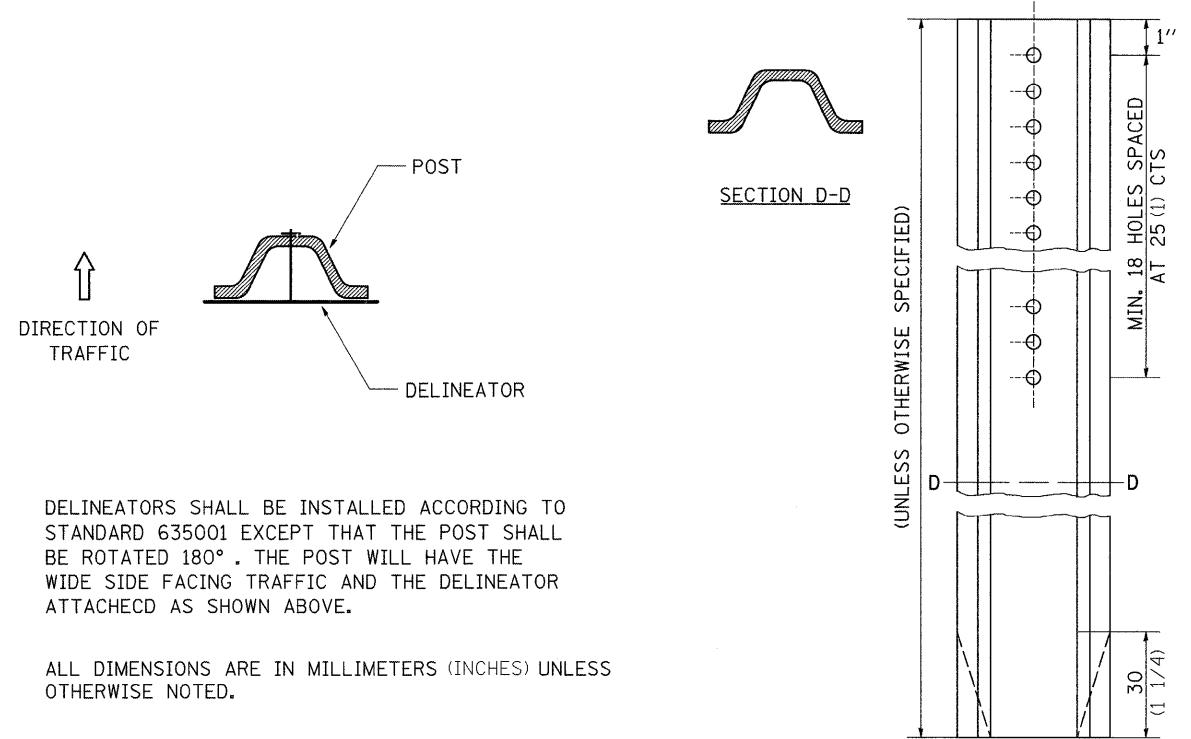
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

DELINEATOR AND POST ORIENTATION



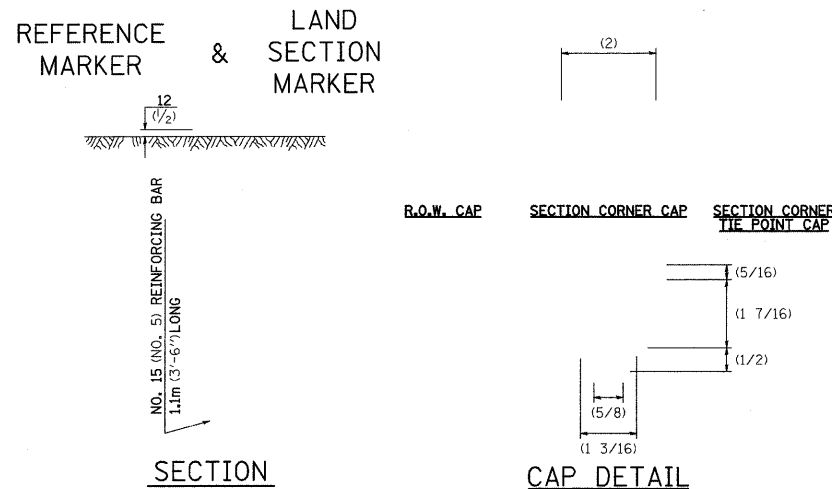
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

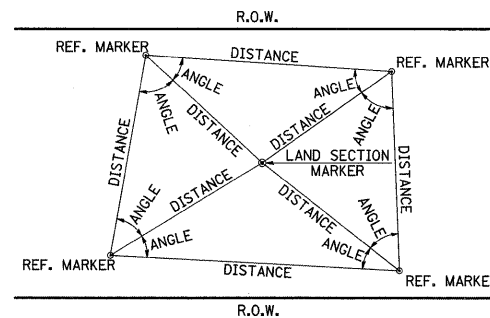
REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



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

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

METHOD OF REFERENCING POINTS

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

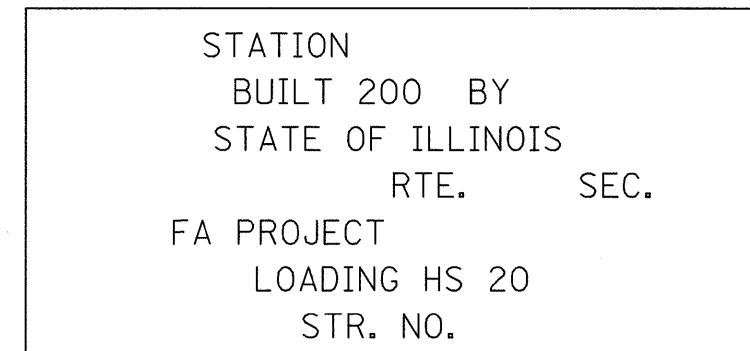
METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE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

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR SECTION CORNER MARKERS.

REVISED - 4-22-05

LAND SECTION & REFERENCE MARKERS 63.4

LETTERING FOR NAME PLATE



SEE STD. 515001

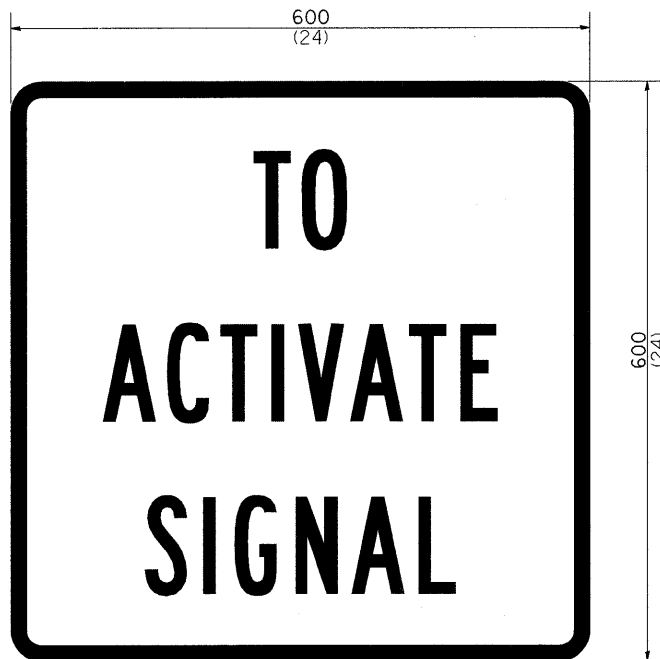
STATION	STRUCTURE NO.
775+56.50	037-1180

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

REVISED - 11-01-07	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		638	136T	HENRY	34	26
REVISED -		SCALE: 50.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64A57		
REVISED -		PLOT DATE = Tue Jan 29 11:45:09 2008		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

LETTERING FOR NAME PLATE 89.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 600(24)

100(4) CAPITAL LETTERS - BLACK

13 (1/2) BORDER - BLACK

WHITE REFLECTIVE - TYPE AP
HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.

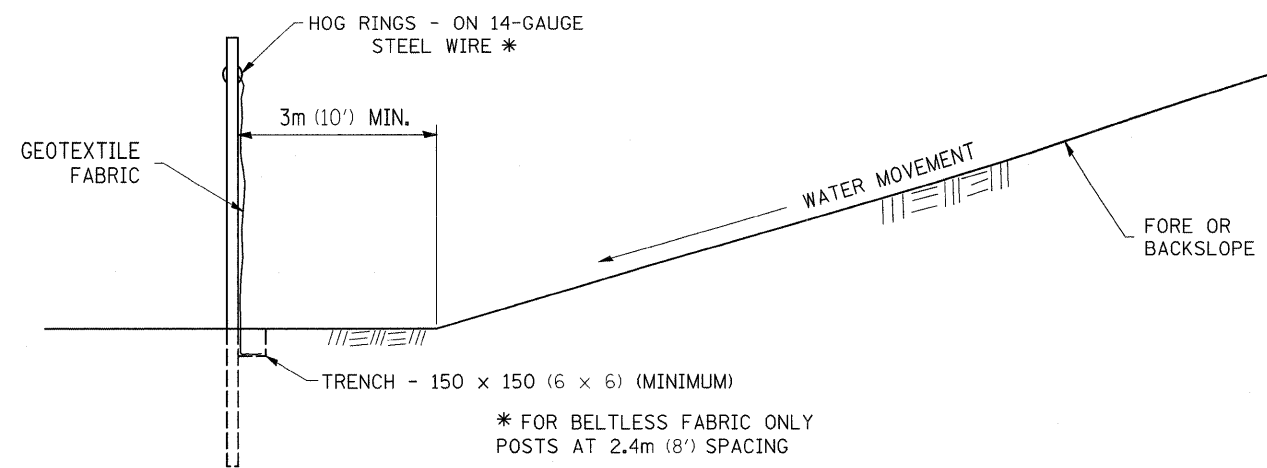
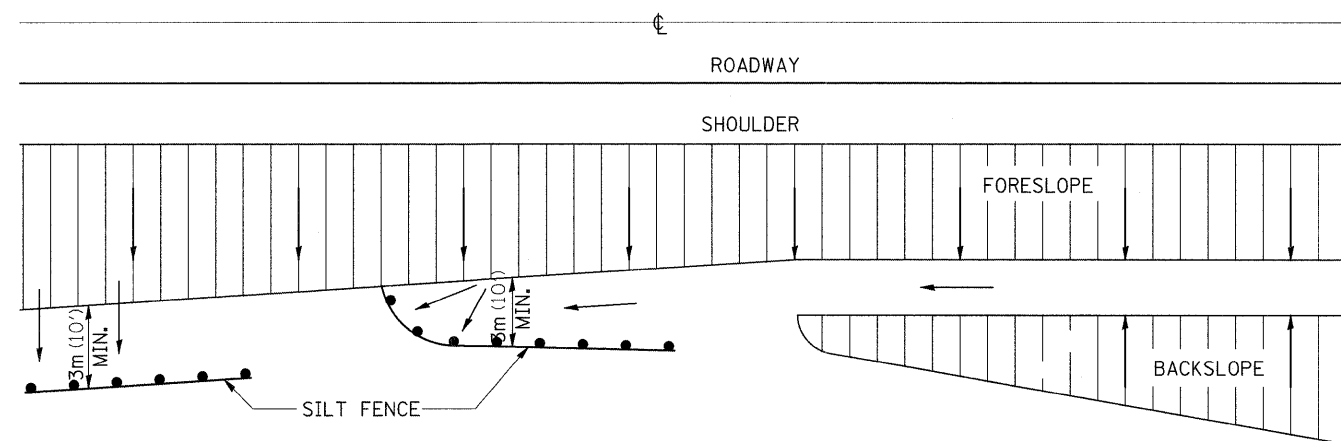
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-22-07

STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

EROSION CONTROL DETAILS FOR SILT FENCE



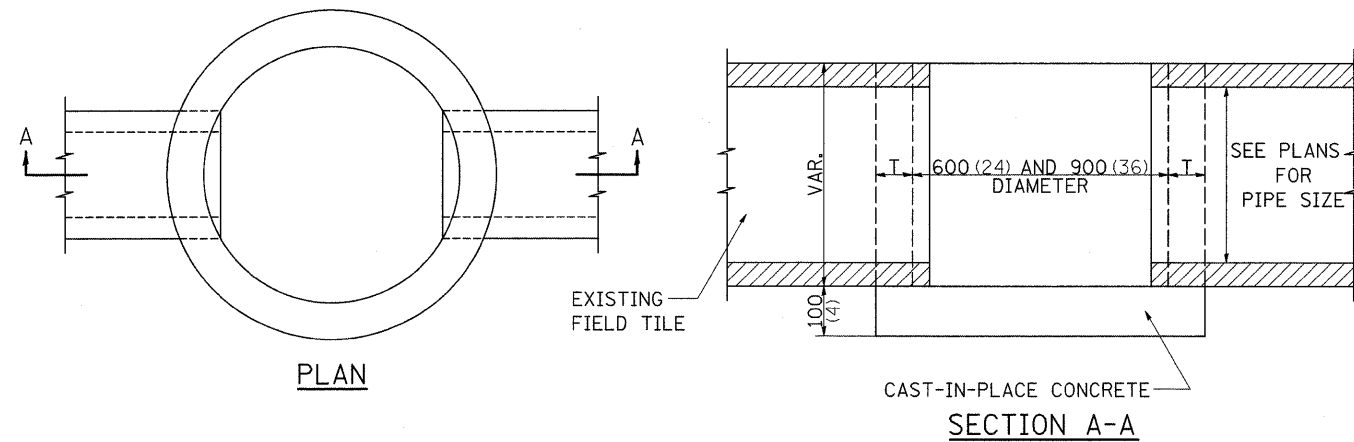
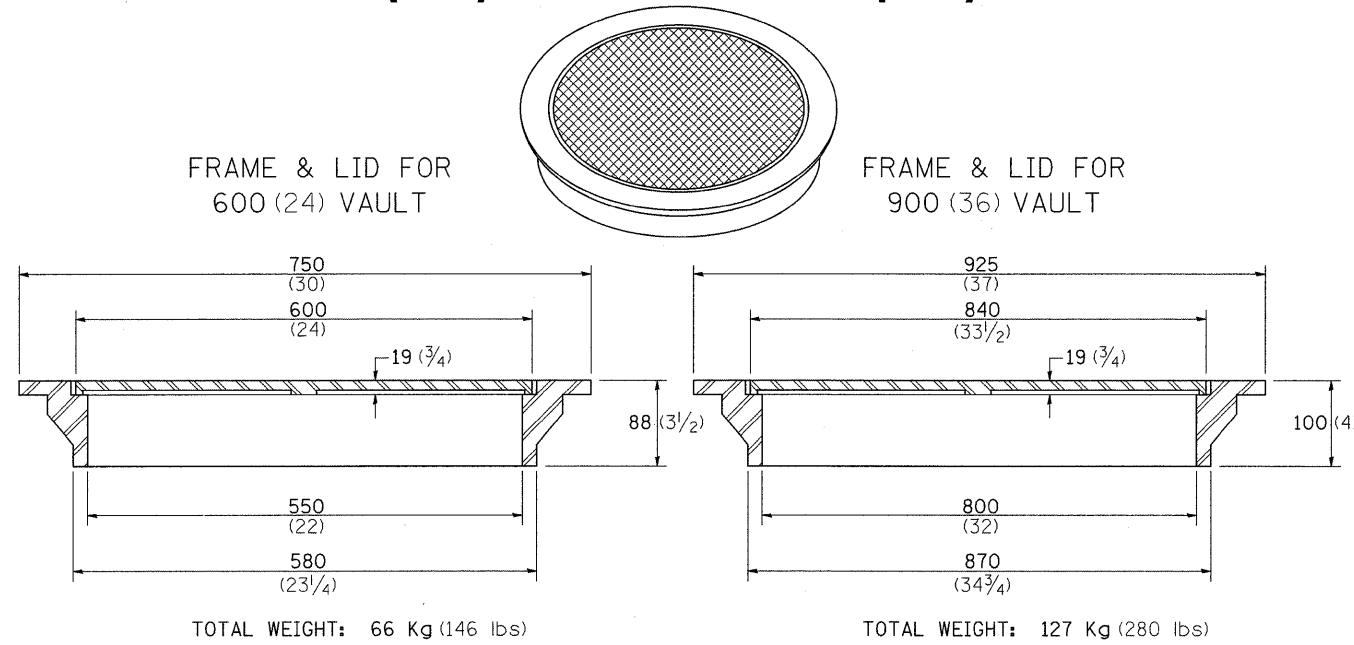
DETAILS OF SILT FENCE

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

REVISED - 10-22-01	REGION 2 / DISTRICT 2 STANDARD				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					638	136T	HENRY	34	27
REVISED -					CONTRACT NO. 64A57				
REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: 50.0000' / IN SHEET NO. OF SHEETS STA. TO STA.									

PLOT DATE = Tue Jan 29 11:45:09 2008

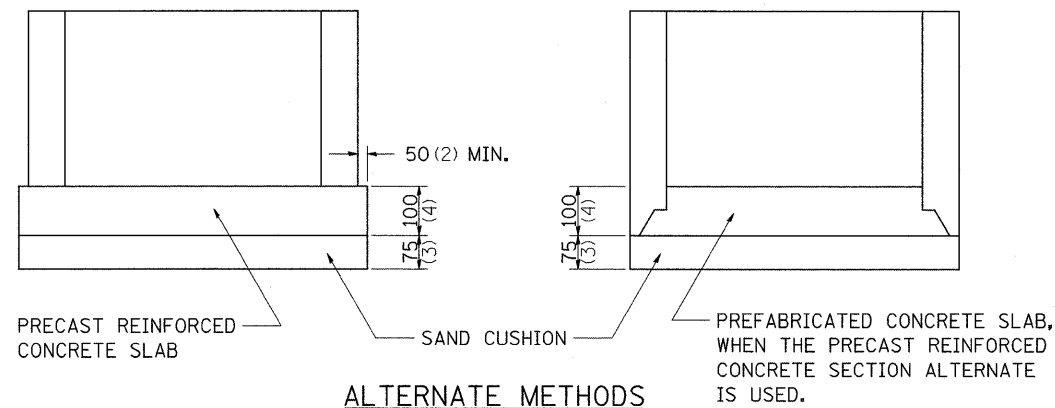
FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



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)

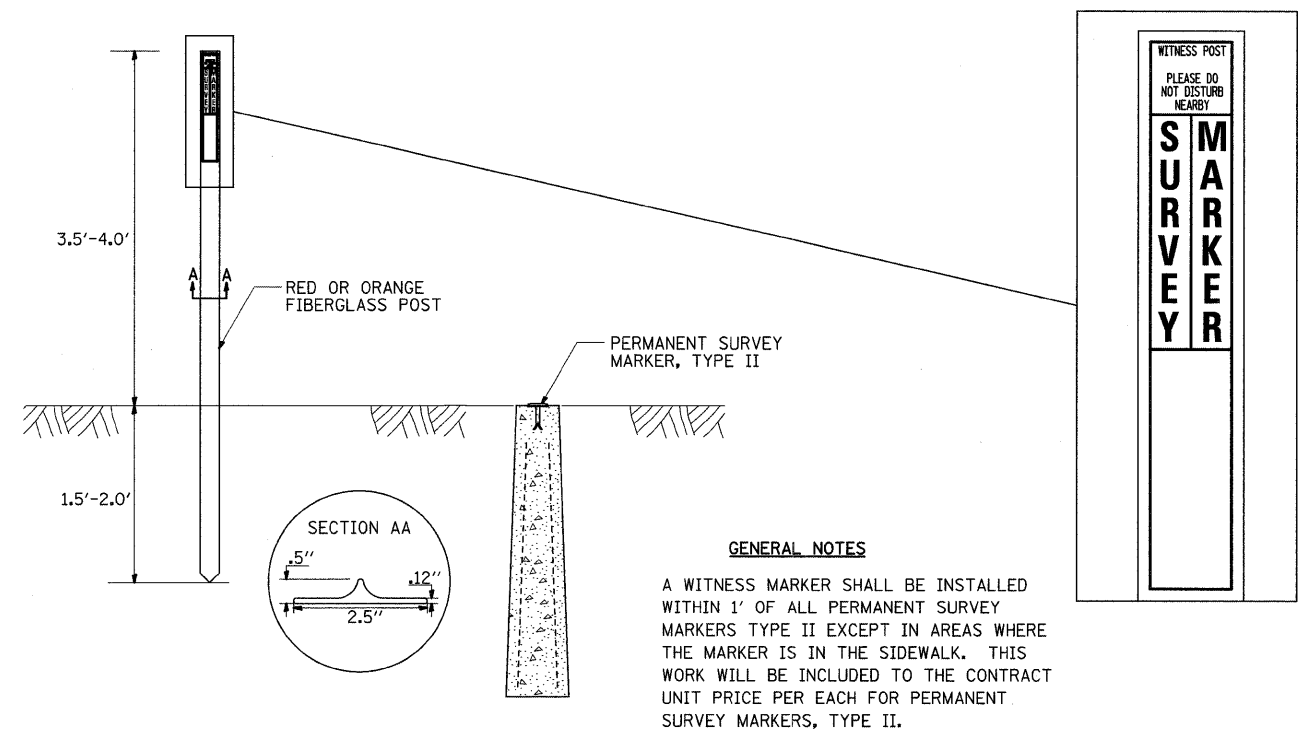
NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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

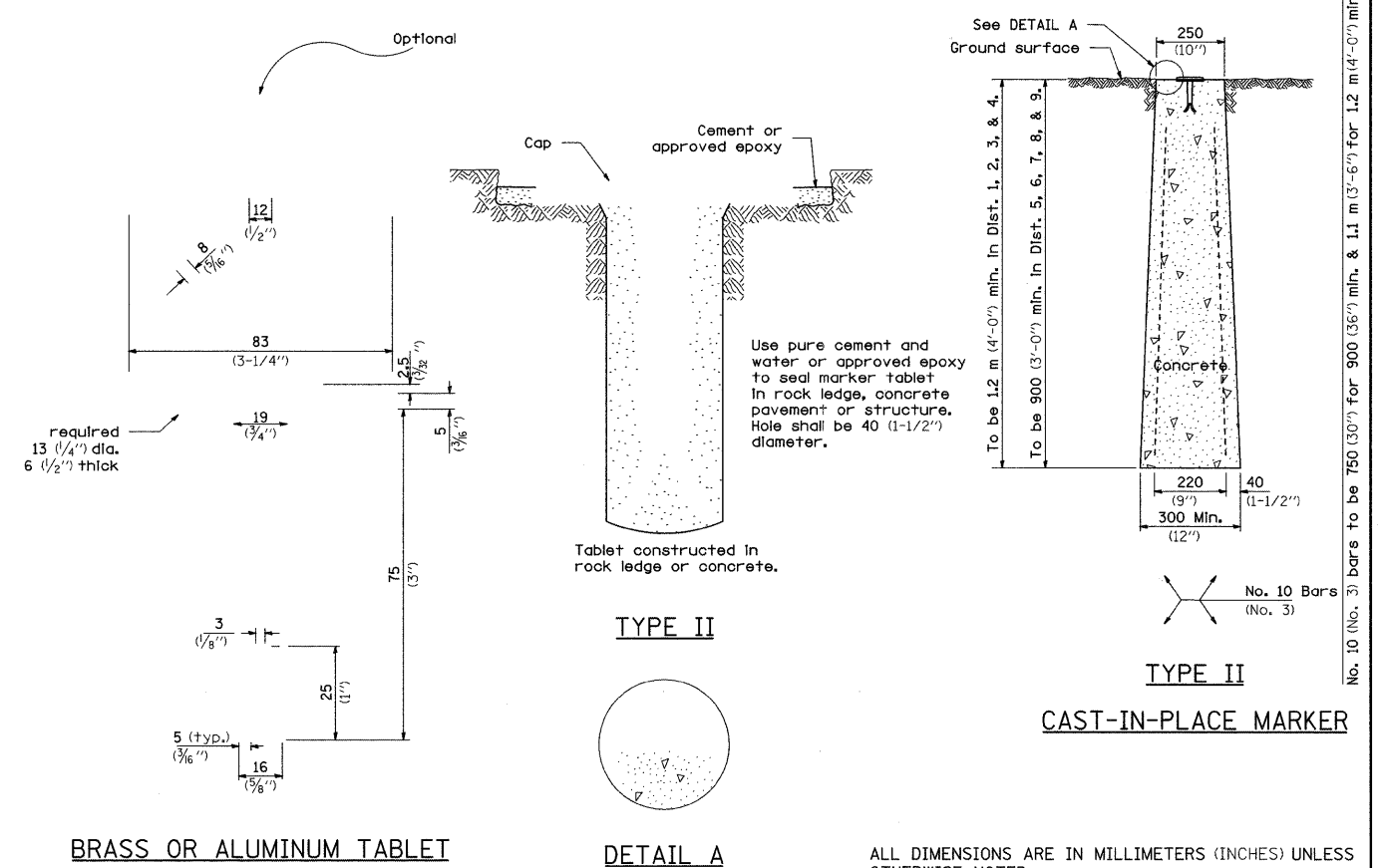


REVISED - 5-03-94

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



PERMANENT SURVEY MARKERS, TYPE II

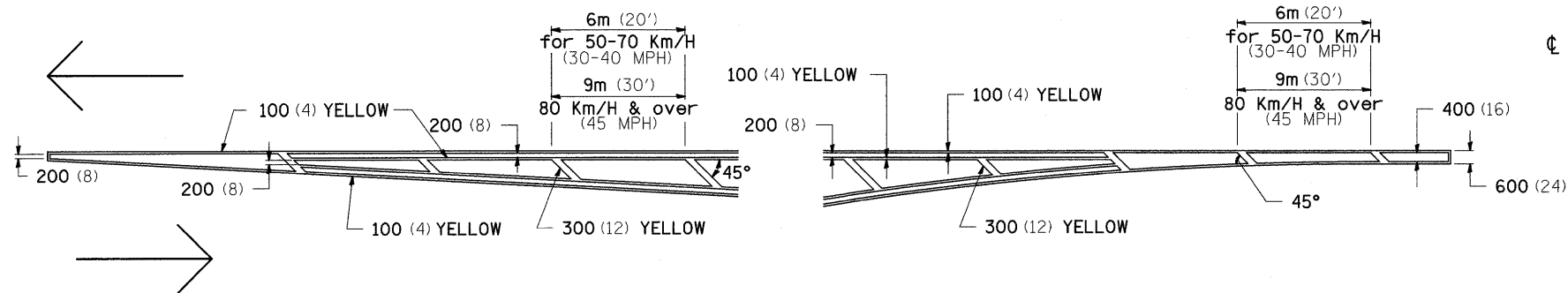


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

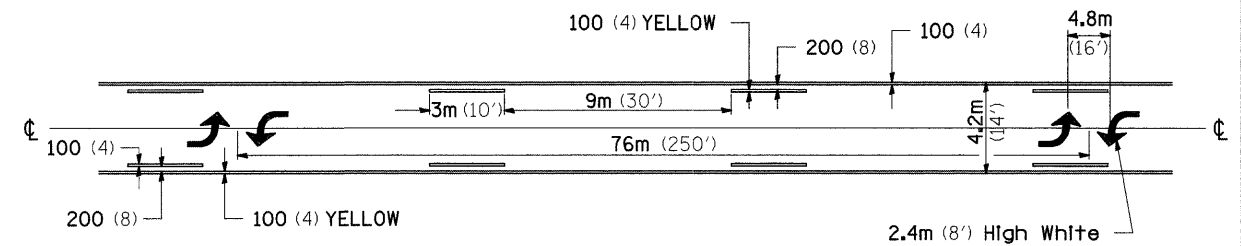
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REVISED -						638	136T	HEHRY	34	28
REVISED -						CONTRACT NO. 64A57				
REVISED -		SCALE: 50.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

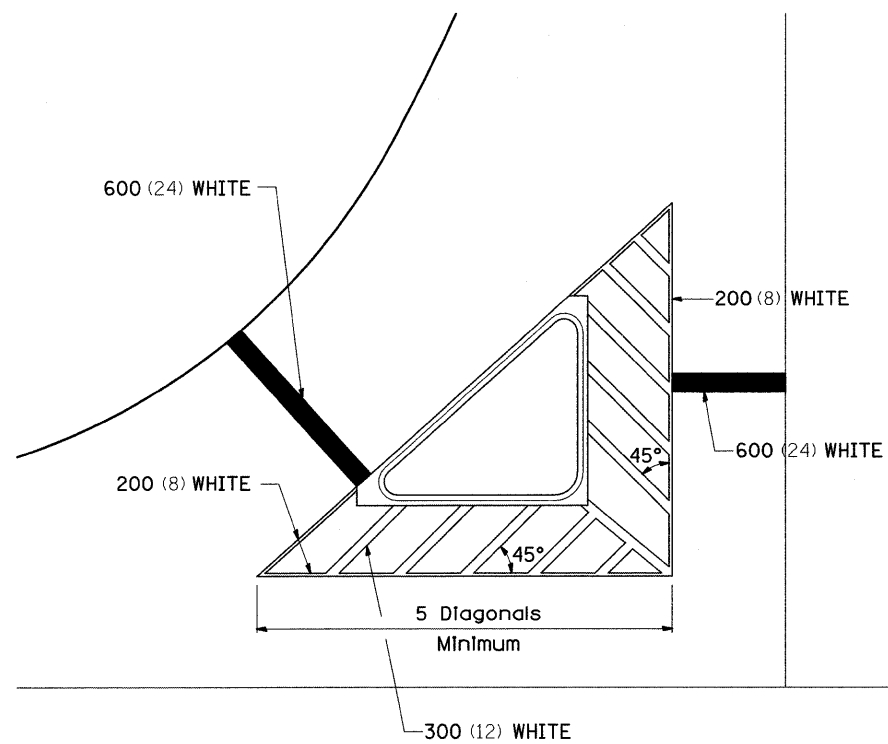


MEDIAN PAVEMENT MARKING

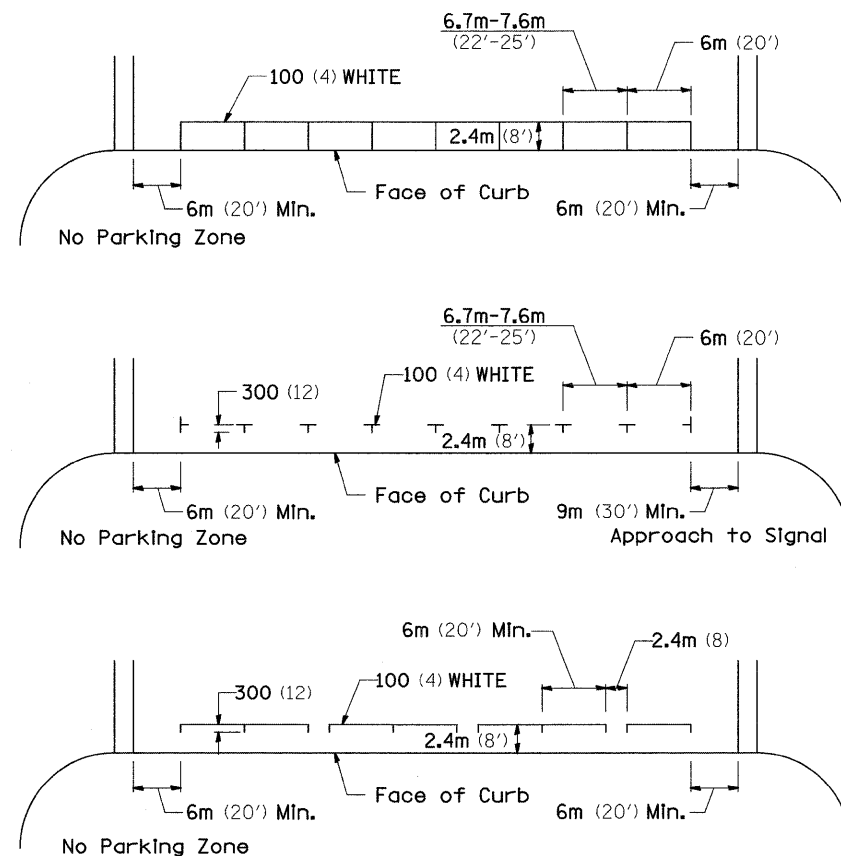


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

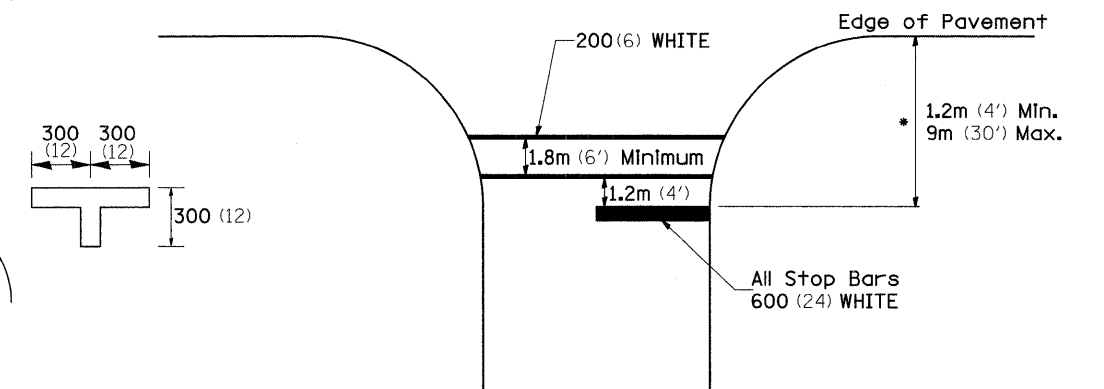


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

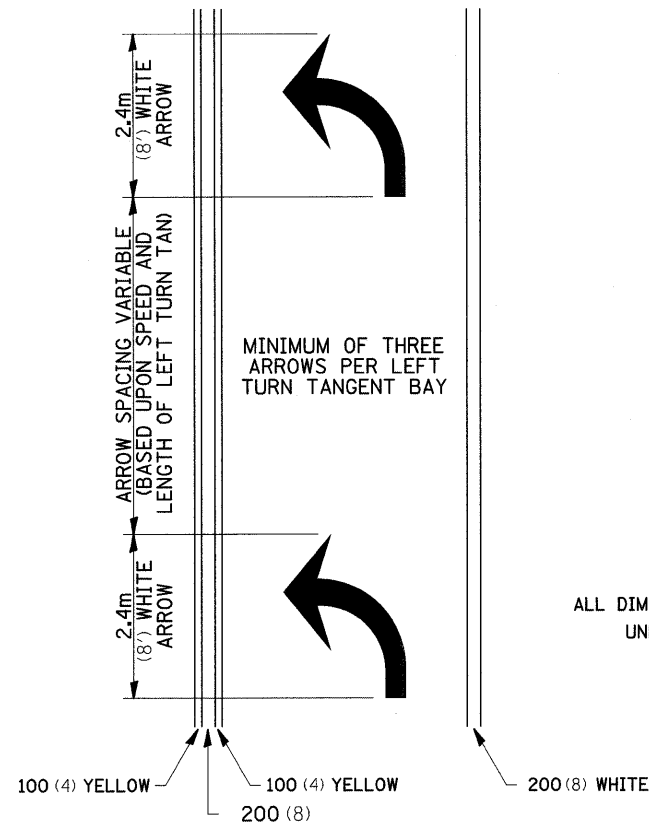


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME = c:\projects\p210006\dl0006sp1.dgn	USER NAME = grantpm	DESIGNED -	REVISED - 1-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 638	SECTION 136T	COUNTY HENRY	TOTAL SHEETS 34	SHEET NO. 29		
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64A57		
	CHECKED -	REVIS	REVIS									
	PLOT DATE = Tue Jan 29 11:45:10 2008	DATE -	REVIS									

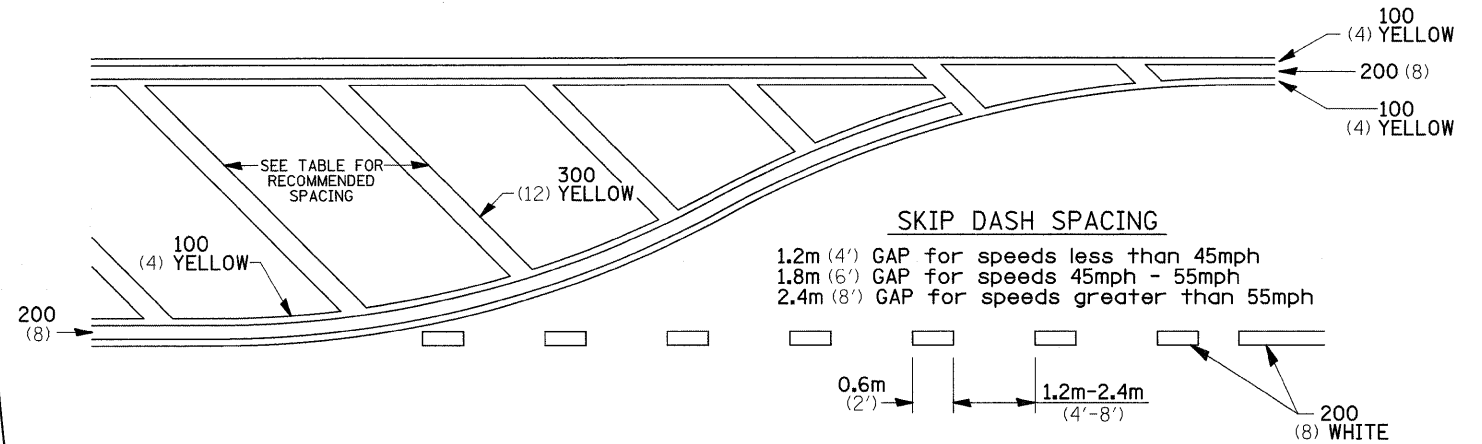
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

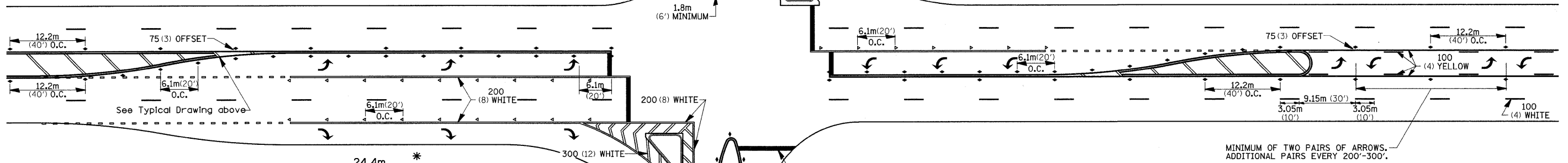
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



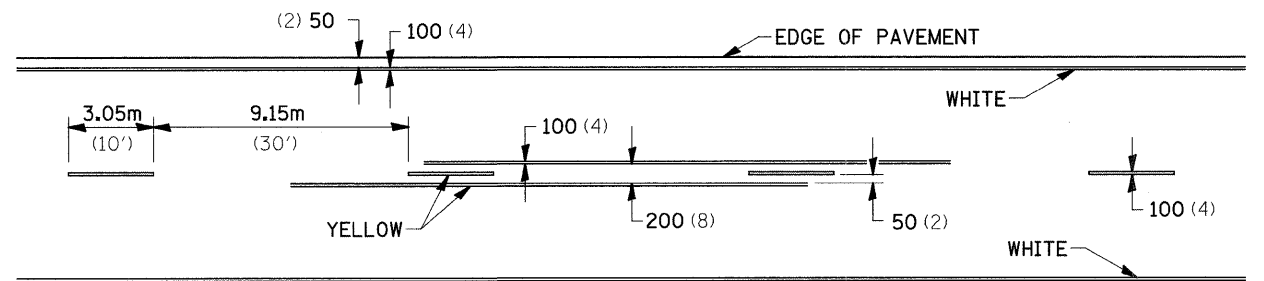
RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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.



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

See Typical Drawing above

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

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

** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

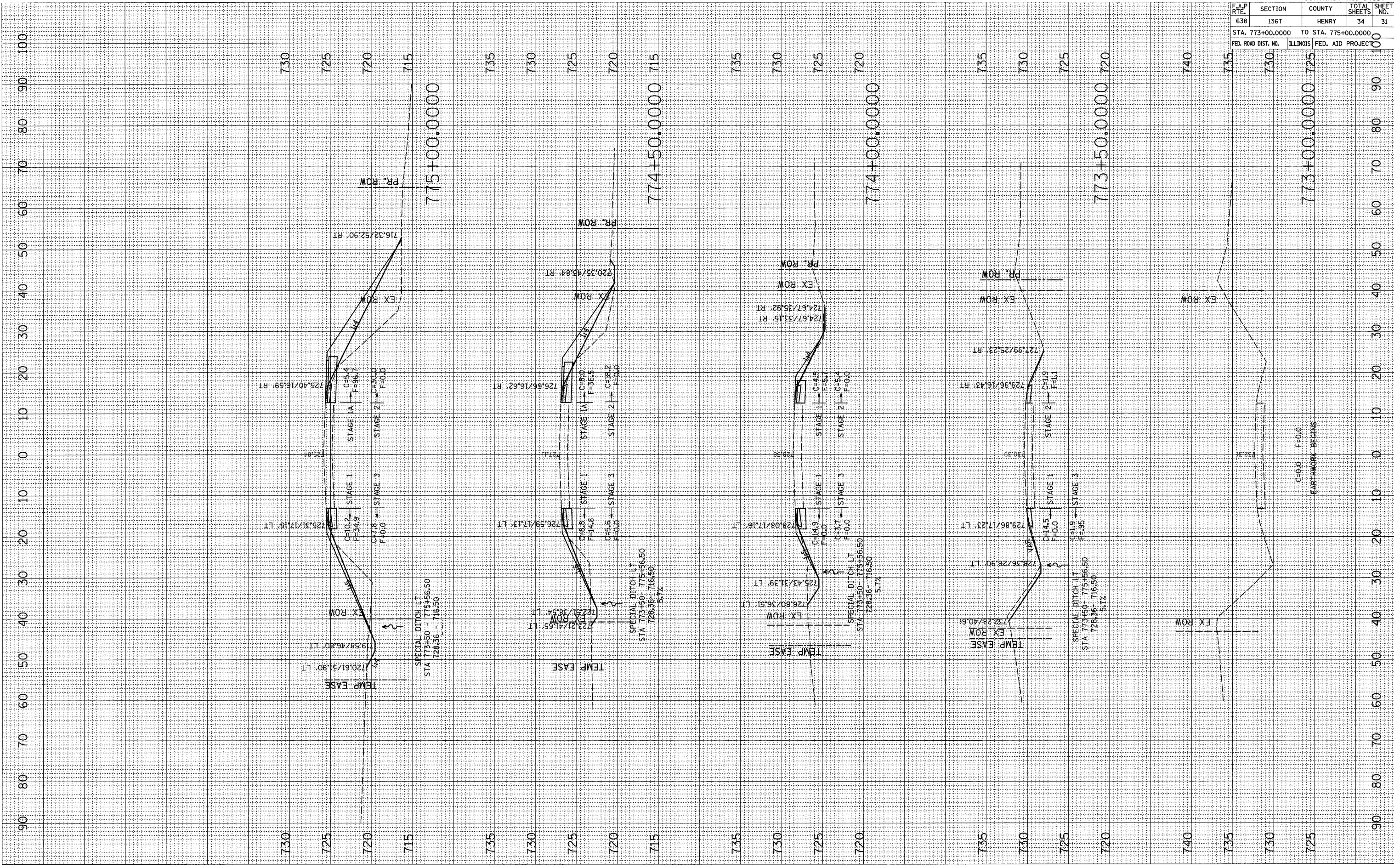
MULTI-LANE / UNDIVIDED

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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = Tue Jan 29 11:45:10 2008		DATE -	REVISED -			CONTRACT NO. 64A57					

PLOT DATE = Tue Jan 29 14:45:53 2008
 PLOT NAME = 22200000.ctb
 PLOT SCALE = 1/8"=1'-0" / IN.
 USER NAME = gromphm

ORIGINAL SURVEYED SURVEY PLOTTED DATE
 NO. NO. DATE

FINAL SURVEY SURVEYED SURVEY PLOTTED DATE
 NO. NO. DATE



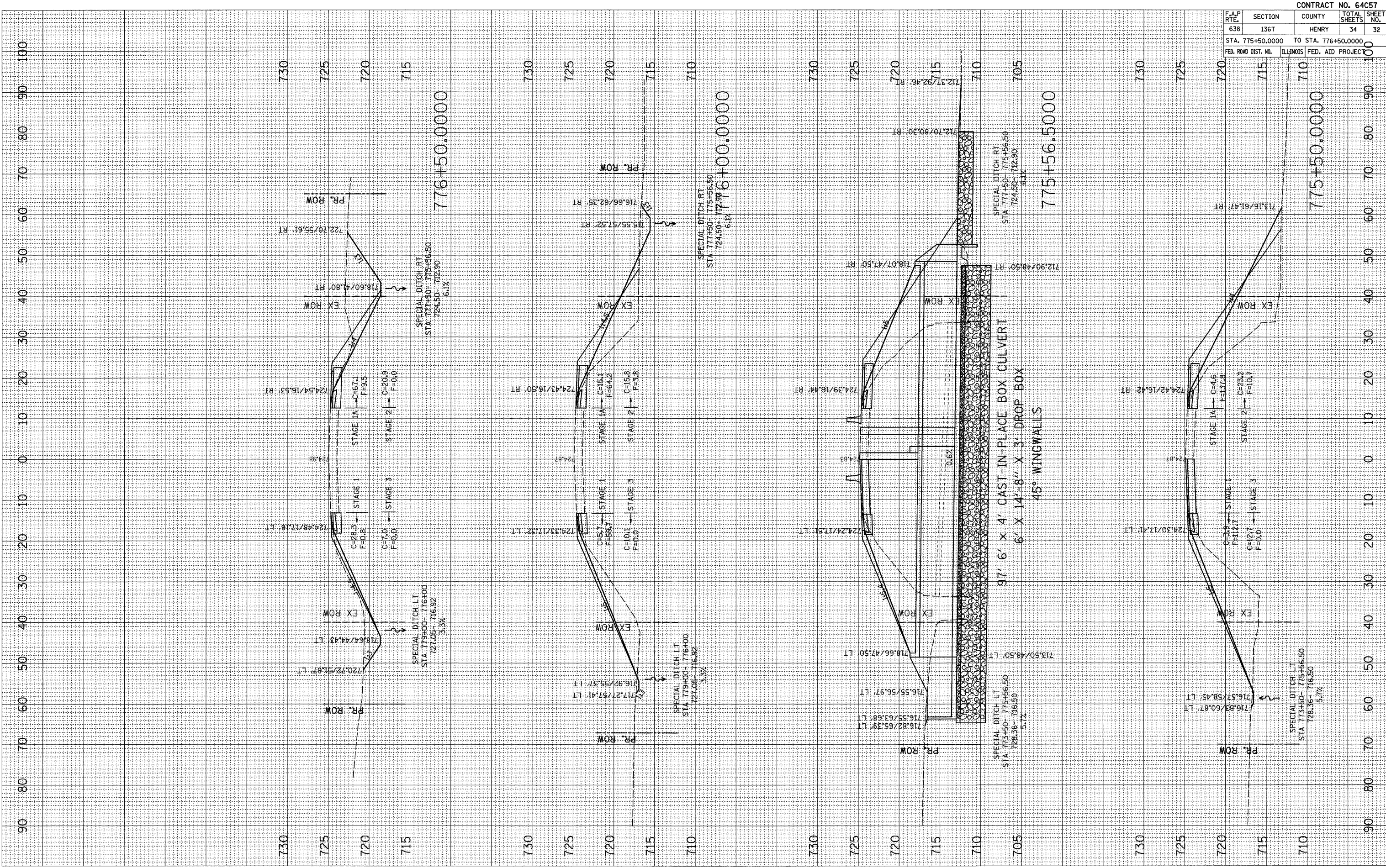
CONTRACT NO. 64C57			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
638	136T	HENRY	34
STA. 773+00.0000 TO STA. 775+00.0000		SHEET NO.	31
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJEC	100

PLOT DATE = Tue Jun 29 11:45:53 2005
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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = grantpm

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

FINAL SURVEY PLOTTED DATE
 SURVEY PLOTTED DATE
 NOTE BOOK NO.
 AREAS CHECKED

BY
 DATE



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	32
STA. 775+50.0000		TO STA. 776+50.0000		100
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJEC		100

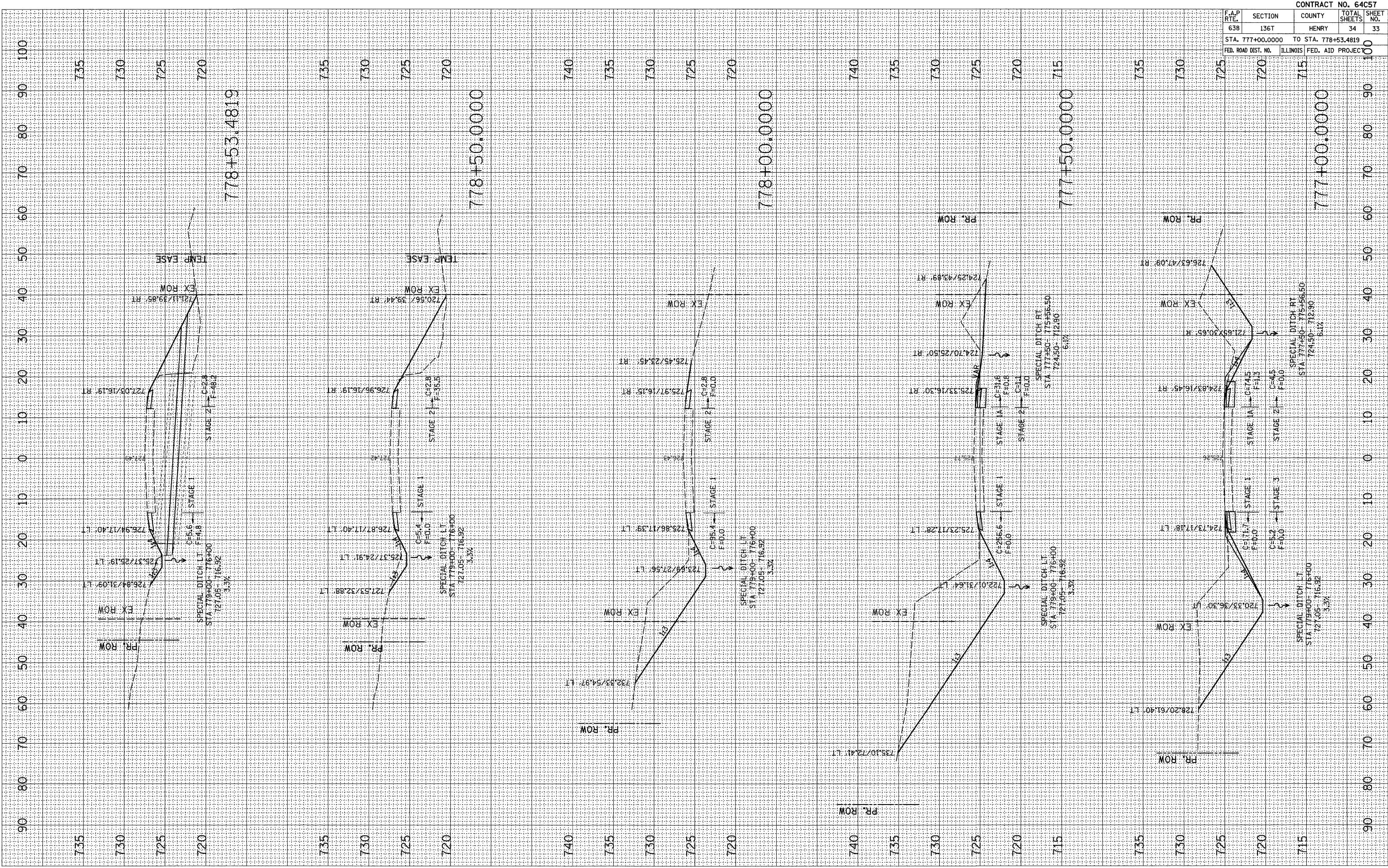
CONTRACT NO. 64C57

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 PLOT SCALE = 1/8"=1'-0"
 USER NAME = grantpm

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 AREA CHECKED

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO.
 AREA CHECKED

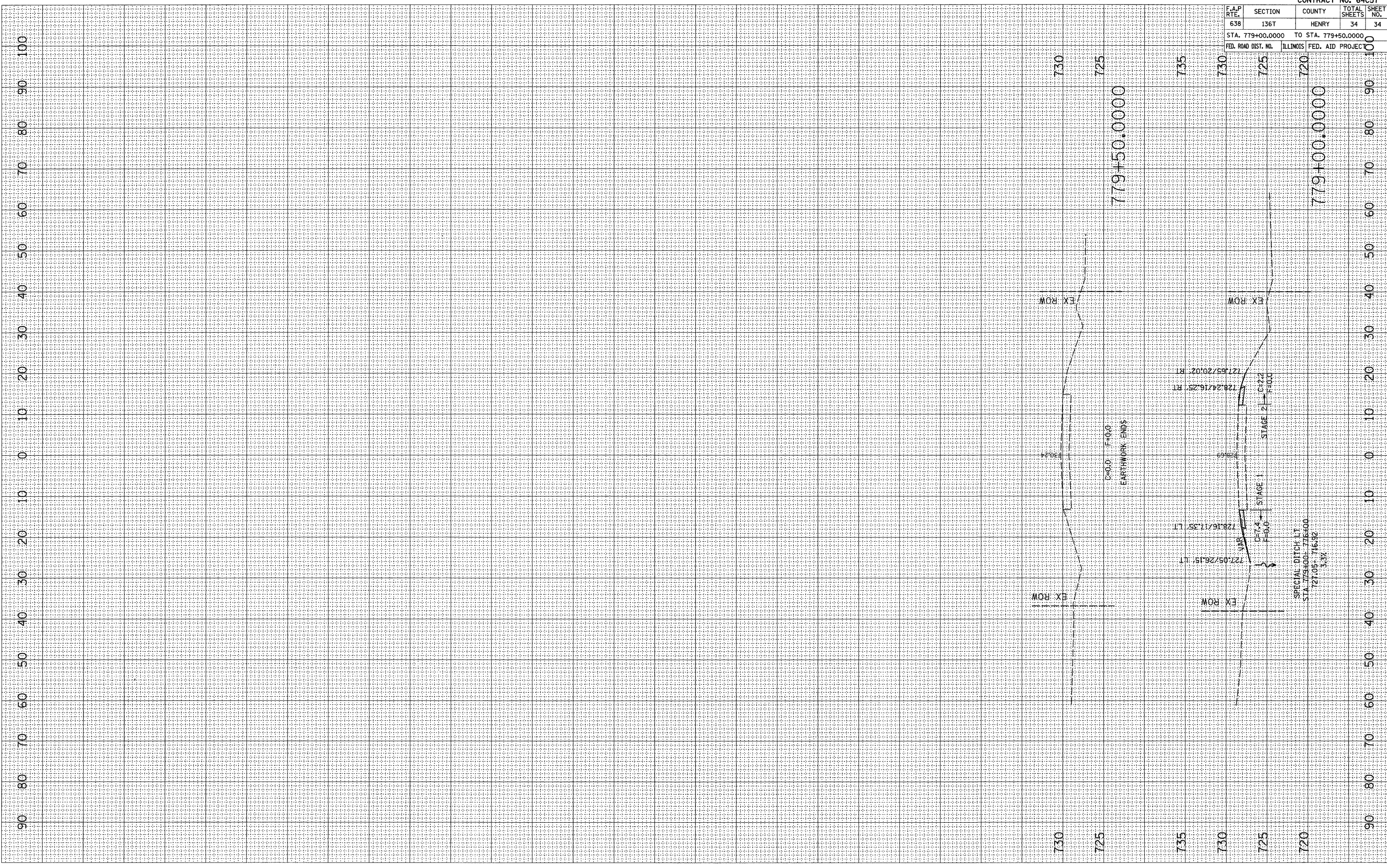
F.A.P. RTE. 638	SECTION 136T	COUNTY HENRY	TOTAL SHEETS 34	SHEET NO. 33
STA. 777+00.0000		TO STA. 778+53.4819		100
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = Tue Jun 29 14:43:4 2000
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 USER NAME = grantpm

ORIGINAL SURVEYED _____
 SURVEY PLOTTED _____
 NOTE BOOK NO. _____
 DATE _____
 BY _____

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



CONTRACT NO. 64C57				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136T	HENRY	34	34
STA. 779+00.0000		TO STA. 779+50.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJEC		