

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	104T-2	JO DAVIESS	53	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64C79		

INDEX OF SHEETS

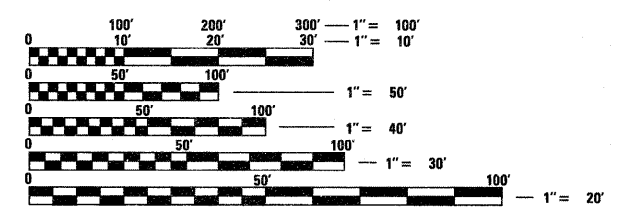
- 1 COVER SHEET
- 2 - 3 SUMMARY OF QUANTITIES
- 4 - 5 GENERAL NOTES
- 6 - 11 TYPICAL SECTIONS
- 12 - 15 SCHEDULE OF QUANTITIES
- 16 EARTHWORK SCHEDULE
- 17 - 18 HORIZONTAL AND VERTICAL CONTROL
- 19 - 20 PLAN AND PROFILE SHEETS
- 21 - 22 STAGING DETAILS
- 23 - 24 R.O.W., EROSION CONTROL, AND SEEDING DETAILS
- 25 - 27 GRATED CULVERT EXTENSION DETAILS
- 28 TEMPORARY SHEET PILING DETAIL
- 29 - 30 SOIL BORING LOGS
- 31 HOT-MIX ASPHALT SHOULDERS (DIST STD 23.4a)
- 31 DELINEATOR AND POST (DIST STD 37.4)
- 31 TYPICAL BENCHING DETAIL ON EXISTING EMBANKMENT (DIST STD 50.4)
- 31 TREE REPLACEMENT SCHEDULE (DIST STD 90.4)
- 32 STOP LINE SIGN FOR TEMPORARY SIGNALS (DIST STD 99.4)
- 33 EROSION CONTROL DETAILS FOR SILT FENCE (DIST STD 29.2)
- 33 FIELD TILE JUNCTION VAULTS (DIST STD 30.2)
- 34 INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES) (DIST STD 39.2)
- 34 WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II (DIST STD 66.2)
- 35 ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (DIST STD 75.2)
- 35 NAME PLATE FOR CULVERTS (DIST STD 88.2)
- 36 STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN (DIST STD 2.1)
- 37 ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS (DIST STD 22.1)
- 38 - 40 TYPICAL PAVEMENT MARKINGS (DIST STD 41.1)
- 41 DETAILS OF PLANTING AND BRACING TREES (DIST STD 92.1)
- 42 - 53 CROSS SECTIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAP ROUTE 650 (IL 78)
SECTION 104T-2
PROJECT ESP-065(008)
JO DAVIESS COUNTY

STATE STANDARDS

- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 442201-03 CLASS C AND D PATCHES
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 635001-01 DELINEATORS
- 666001-01 RIGHT-OF-WAY MARKERS
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 4.5M (15') TO 600 MM (24") FROM PAVEMENT EDGE
- 701201-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-10 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-03 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45MPH
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-06 TEMPORARY CONCRETE BARRIER
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUT FOR DETECTION LOOPS
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT

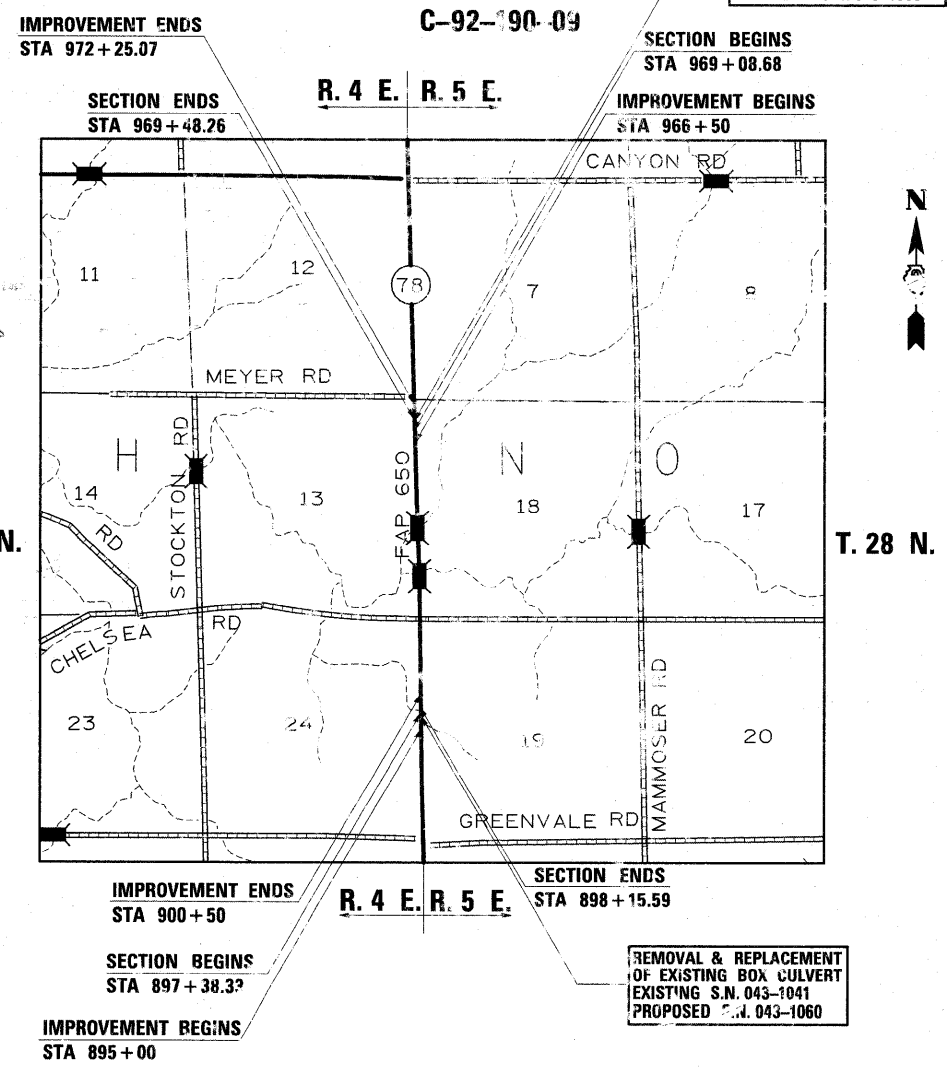


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

RUSH TOWNSHIP : SECTIONS 13 & 24
NORA TOWNSHIP : SECTIONS 18 & 19
PROJECT ENGINEER : MASOOD AHMAD
PROJECT MANAGER : JENNIFER WILLIAMS (815)-284-5950
CONTRACT NO. 64C79

JO DAVIESS COUNTY SECTION 104T-2 F.A.P. 650 (IL 78)



REMOVAL & REPLACEMENT OF EXISTING BOX CULVERT EXISTING S.N. 043-1039 PROPOSED S.N. 043-1059

REMOVAL & REPLACEMENT OF EXISTING BOX CULVERT EXISTING S.N. 043-1041 PROPOSED S.N. 043-1060

GROSS SECTION LENGTH = 116.84 FT. = 0.022 MILE
NET SECTION LENGTH = 116.84 FT. = 0.022 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 6, 2009
George F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 4, 2009
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	FEDERAL 100%
			Y007 TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	53
20200100	EARTH EXCAVATION	CU YD	825
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	52
20400800	FURNISHED EXCAVATION	CU YD	585
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100
* 25000210	SEEDING, CLASS 2A	ACRE	1.00
* 25000310	SEEDING, CLASS 4	ACRE	0.25
;) * 25000750	MOWING	ACRE	1.00
* 25100115	MULCH, METHOD 2	ACRE	1.25
* 25100630	EROSION CONTROL BLANKET	SQ YD	6051
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	375
28000305	TEMPORARY DITCH CHECKS	FOOT	720
28000400	PERIMETER EROSION BARRIER	FOOT	474
28000500	INLET AND PIPE PROTECTION	EACH	4
28100107	STONE RIPRAP, CLASS A4	SQ YD	190
28200200	FILTER FABRIC	SQ YD	190
35101400	AGGREGATE BASE COURSE, TYPE B	TON	416
40600990	TEMPORARY RAMP	SQ YD	52
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	289
44004250	PAVED SHOULDER REMOVAL	SQ YD	61
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	339
48101200	AGGREGATE SHOULDERS, TYPE B	TON	389
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	1715
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
51205200	TEMPORARY SHEET PILING	SQ FT	569
51500100	NAME PLATES	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	102
54200475	PIPE CULVERTS, TYPE 1 RCCP 60"	FOOT	82
54207615	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 60"	FOOT	120
54213450	END SECTIONS 15"	EACH	4
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	2

* SPECIALTY ITEM
;) NON-PARTICIPATING 100% STATE

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	FEDERAL 100%
			Y007
			TOTAL QUANTITY
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	1072
63500105	DELINEATORS	EACH	4
66411900	TEMPORARY FENCE	FOOT	356
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	236
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	2119
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	26
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	80
70400100	TEMPORARY CONCRETE BARRIER	FOOT	420
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	420
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9000
78300100	PAVEMENT MARKING REMOVAL	SQ FT	760
* A2005114	TREE, JUGLANS NIGRA (BLACK WALNUT), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	4
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	4
Z0005400	BREAKER-RUN CRUSHED STONE	TON	106
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	3
Z0029001	GRADED CULVERT EXTENSION, NO. 1	EACH	2
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
XX001135	PAVEMENT PATCHING SPECIAL	SQ YD	301

* SPECIALTY ITEM
 :) NON-PARTICIPATING

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 650 (IL 78)	104T-2	JoDavieess	53	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C79				

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.

It is estimated that 585 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 25% has been used.

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

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

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

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. Impervious material shall be used on the outer 3 feet of each end of the culvert. 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):	Surface	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 58-22
Design Air Voids	4.0 @ N50	4 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5 or 12.5	BAM
Friction Aggregate	C	C	N/A
20 Year ESAL	0.9	0.9	N/A
Mix Unit Weight	112 lbs/sy/in	112 lbs/sy/in	

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 Ton for HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new numbers for the structures will be:

Structure Number	Structure Location
043-1059	Sta. 969+28.62
043-1060	Sta. 897+77.46

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 Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price for PIPE CULVERTS, CLASS D, TYPE 1 15".

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. 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: 4 Each.

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

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal and vertical coordinates must be derived by GPS and the elevation derived by a closed level circuit. The Engineer shall submit this information to the Survey Crew.

The temporary concrete barrier shall be anchored to the pavement with 6 anchors per section at the following location: Sta. 897+38.33 to 898+15.59

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

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

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

GENERAL NOTES

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Contract #64C79				

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

Commonwealth Edison Co.
NICOR Gas Co.

Verizon
Mediacom

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.

No section of guardrail shall be removed until such time that removal is necessary to complete work in that area. This is necessary to protect motorists from hazards in the clear zone. When guardrail is removed, the hazard that was protected shall be alleviated within 48 hours or protected with a longitudinal barrier and/or temporary impact attenuator at no cost to the department. The barrier and temporary impact attenuator layout shall be approved by the department prior to installation.

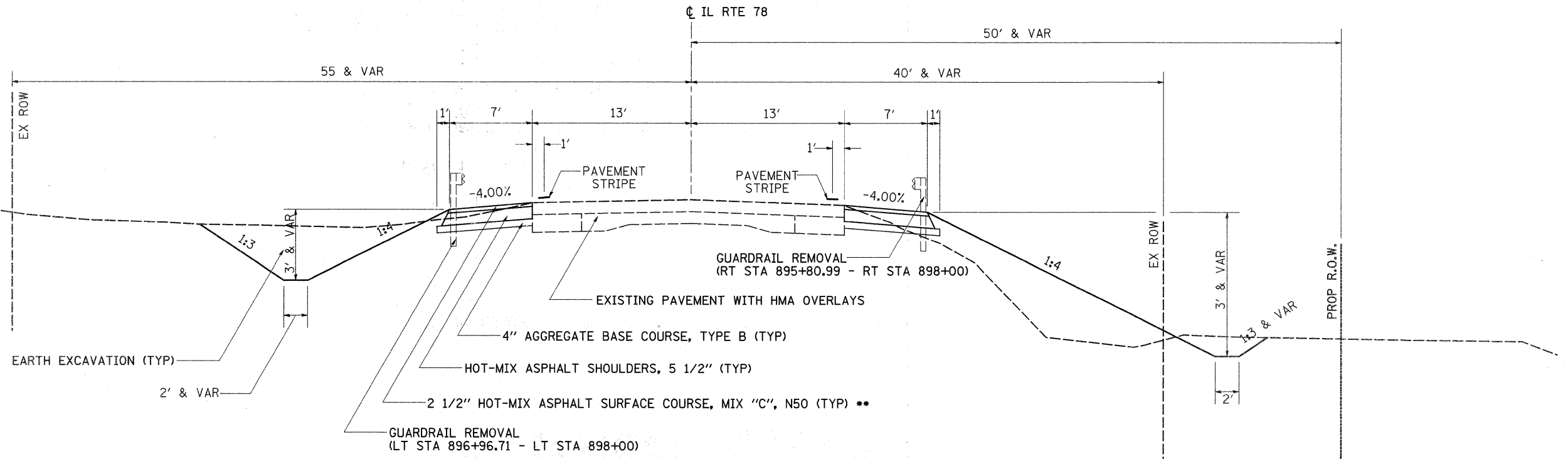
The Class C Patches shall be placed according to Section 442 of the Standard Specifications. Class PP-2 or PP-3 concrete conforming to Section 1020.04 and 1020.05(b)(5) of the Standard Specifications shall be utilized for this patch. No additional compensation shall be allowed for the work, but shall be included in the contract unit price per Square Yard for CLASS C PATCHES, TYPE IV, 10 INCH.

The Contractor shall not have Field Tile Junction Vault ordered or constructed until exploratory trench is used to determine depth of existing field tile.

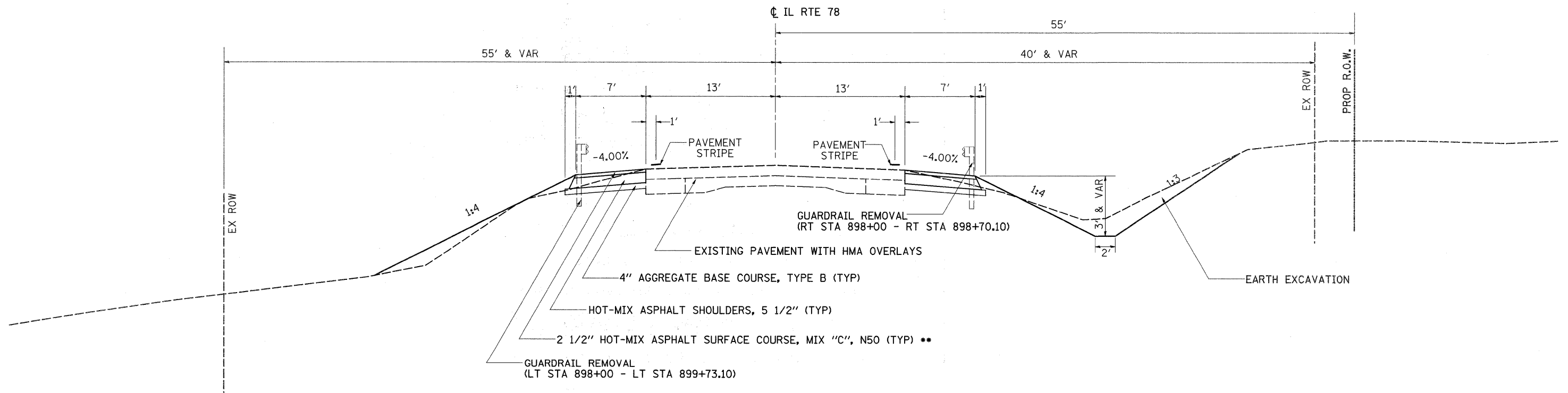
The Contractor shall notify Rinker Materials Concrete Pipe Division in Buffalo, IA to order the reinforced concrete arch pipe. Rinker Materials Concrete is the only producer on the approved list that makes this type of pipe. Elliptical or round pipes will not be allowed as a substitution.

Tie bars are required for Class C Patches more than 20'-0" in length. No additional compensation shall be allowed for the work, but shall be included in the contract unit price per Square Yard for CLASS C, PATCHES, TYPE IV, 10 INCH.

TYPICAL SECTIONS



CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1060
STA 895+00 - STA 898+00

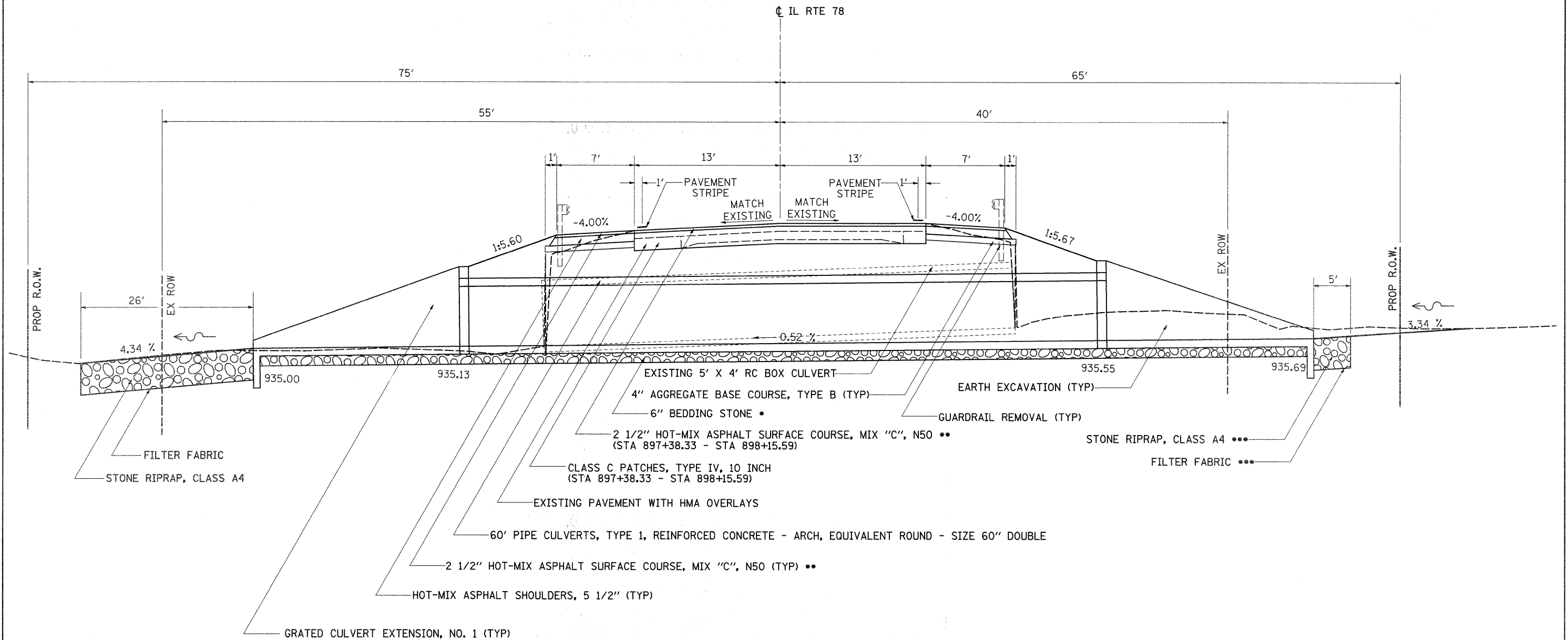


CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1060
STA 898+00 - STA 900+50

** HMA PLACED IN 2 LIFTS:
1 1/2" TOP LIFT AND 1" BOTTOM LIFT; 112 LBS/SY/IN
NOTE: NO DITCH RT STA 895+00 - RT STA 896+50

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwork\FWIDOT\GOFFJL\dms37299\d01107.tpd.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 6 SHEETS	STA. 895+00 TO STA. 900+50	650	104T-2	JO DAVIESS	53	6
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64C79							
PLOT DATE = Mon Sep 21 07:55:24 2009		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL SECTIONS

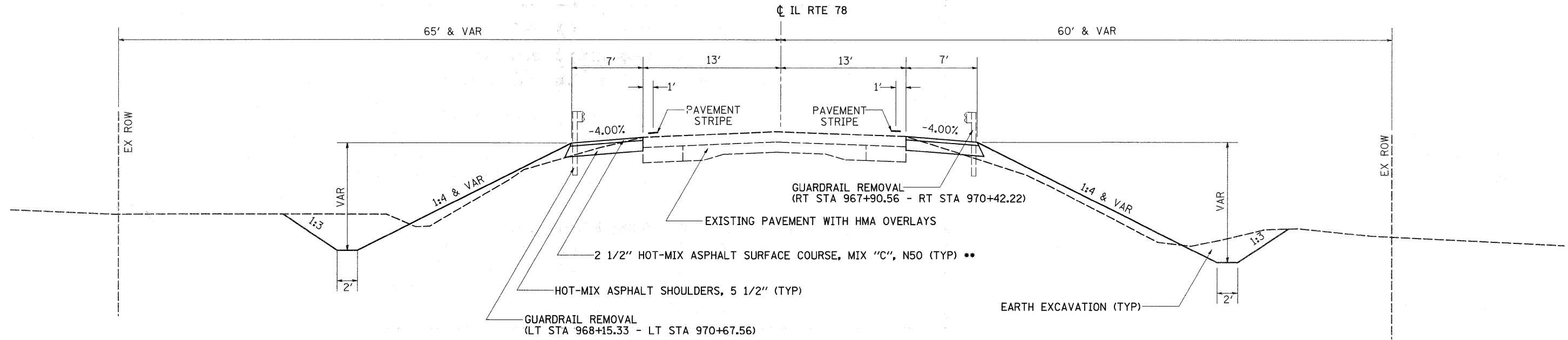


CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1060
STA 897+77.46

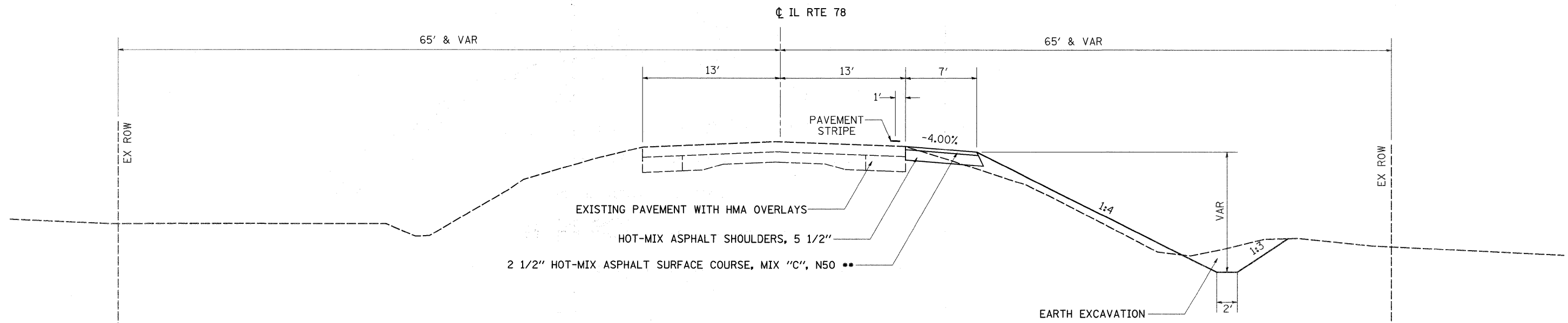
* BEDDING STONE INCLUDED IN THE COST OF THE PIPE CULVERT
 ** HMA PLACED IN 2 LIFTS:
 1 1/2" TOP LIFT AND 1" BOTTOM LIFT; 112 LBS/SY/IN
 *** PROPOSED STONE RIPRAP, CLASS A4
 AND FILTER FABRIC RT STA 897+05.36 - RT STA 897+50.65

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PLOT DATE = Mon Sep 21 07:55:24 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. 2 OF 6 SHEETS			STA. 897+77.46 TO STA. 897+77.46		

TYPICAL SECTIONS



CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1059
STA 966+50 - STA 971+00

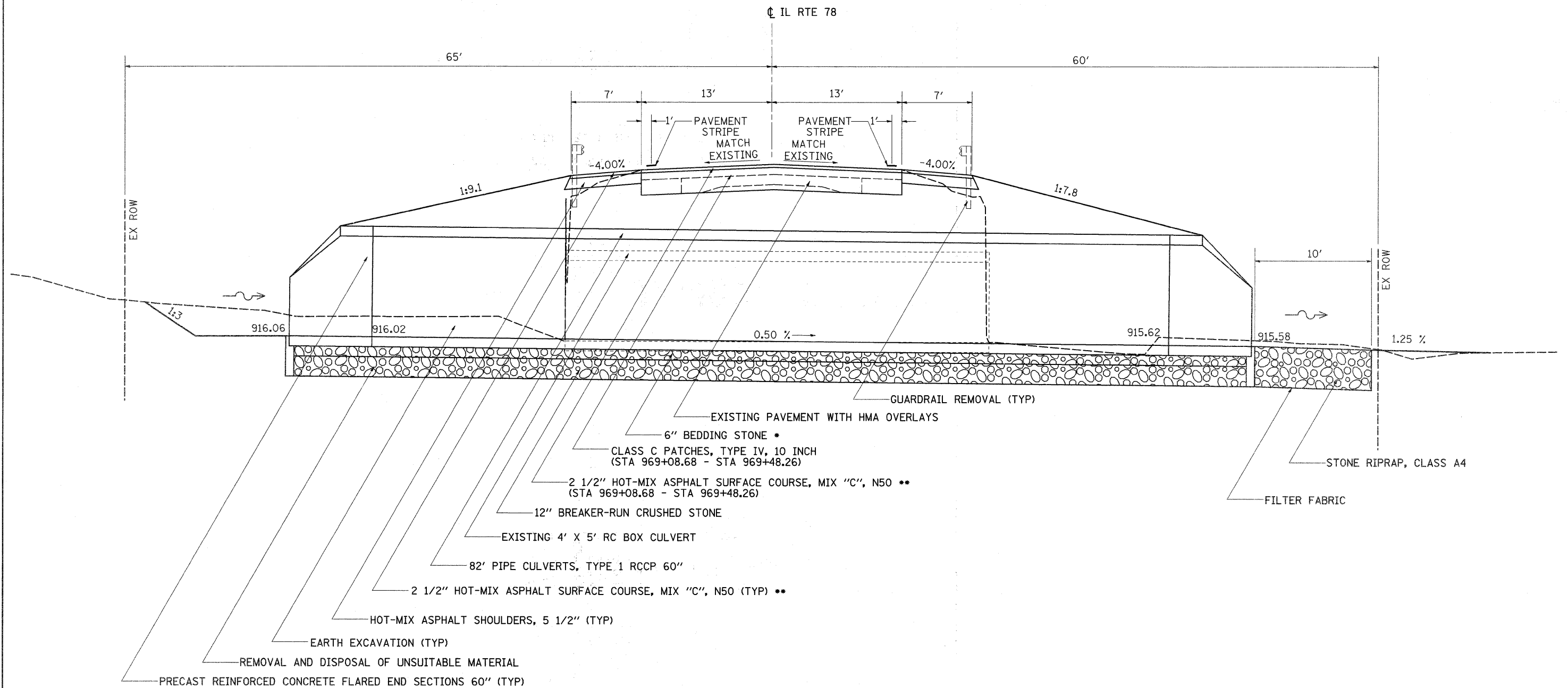


CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1059
STA 971+00 - STA 972+25.07

NOTE: NO DITCH RT STA 968+50 - RT STA 969+28.62
** HMA PLACED IN 2 LIFTS:
1 1/2" TOP LIFT AND 1" BOTTOM LIFT; 112 LBS/SY/IN

FILE NAME =	USER NAME = goff_jl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\pw_work\FWIDOT\GOFFJL\dms37299\d01107.tpp.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 3 OF 6 SHEETS	STA. 966+50 TO STA. 972+25.07	650	104T-2	JO DAVIESS	53	8
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PLOT DATE = Mon Sep 21 07:55:25 2009		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL SECTIONS

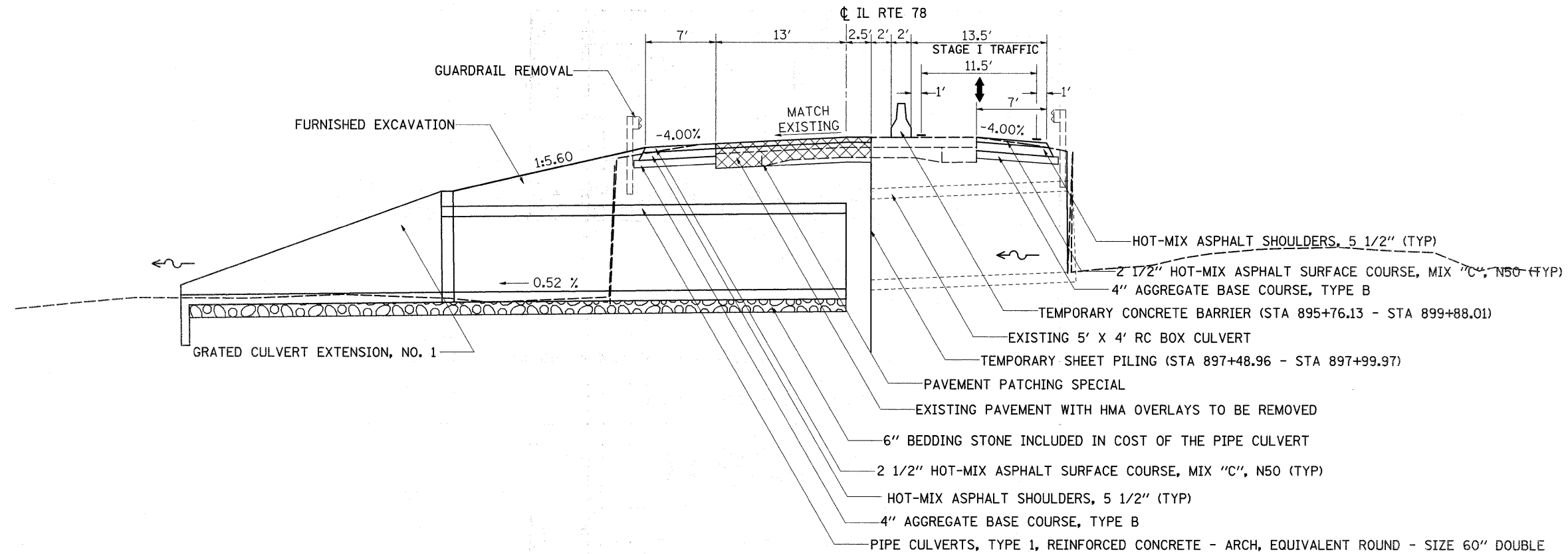


CULVERT TYPICAL SECTION - IL RTE 78 @ PROPOSED CULVERT SN 043-1059
STA 969+28.62

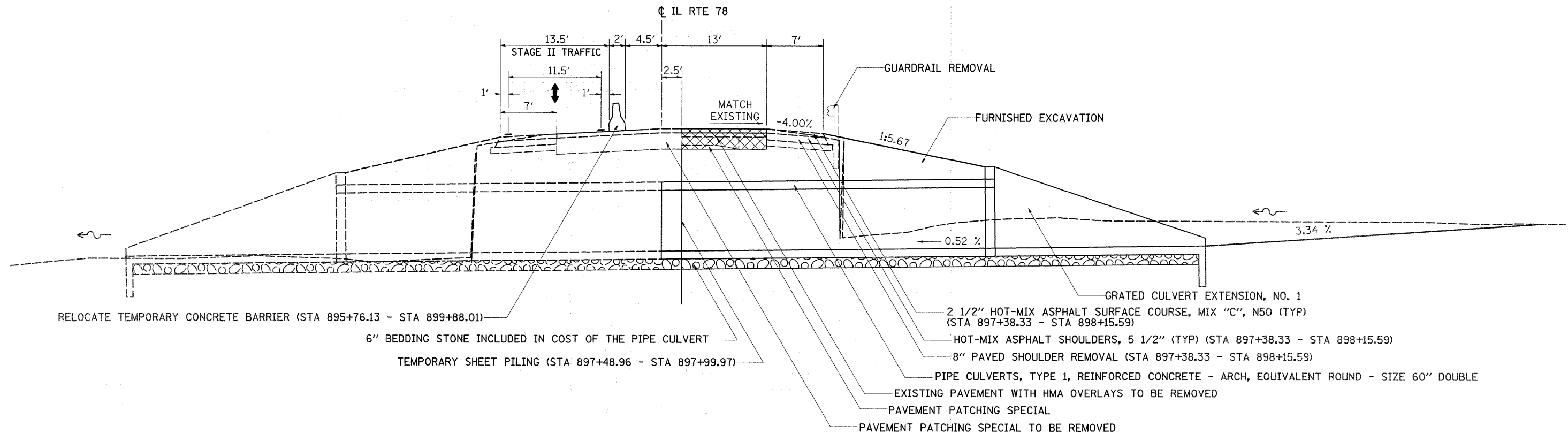
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		DATE -	REVISED -			SCALE:	SHEET NO. 4 OF 6 SHEETS	STA. 969+28.62 TO STA. 969+28.62	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

TYPICAL SECTIONS



STAGE I CULVERT TYPICAL SECTION - IL RTE 78
STA 897+77.46

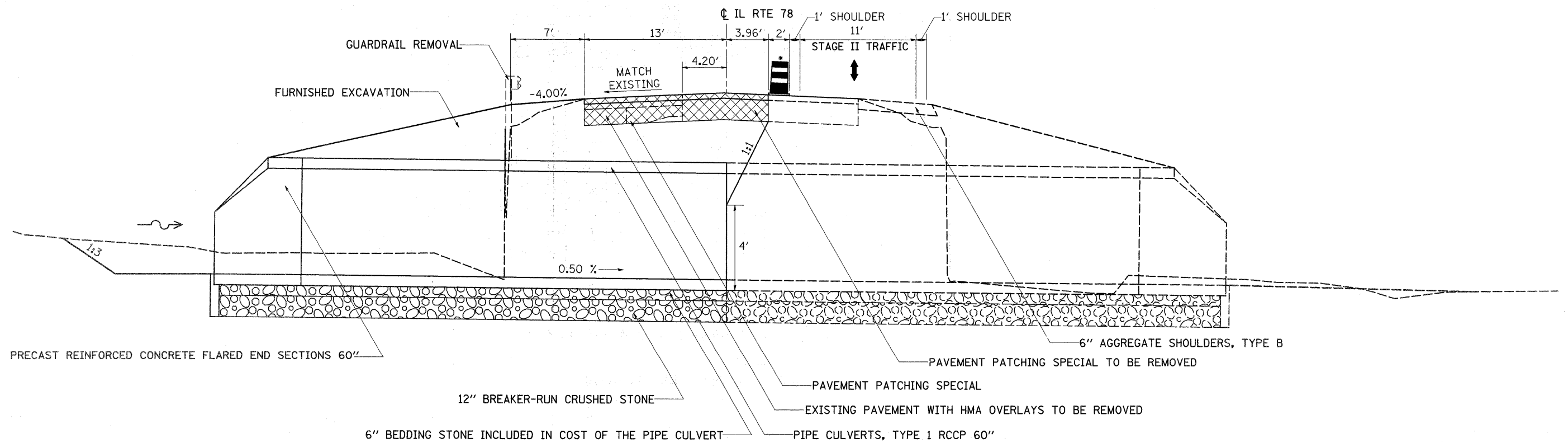
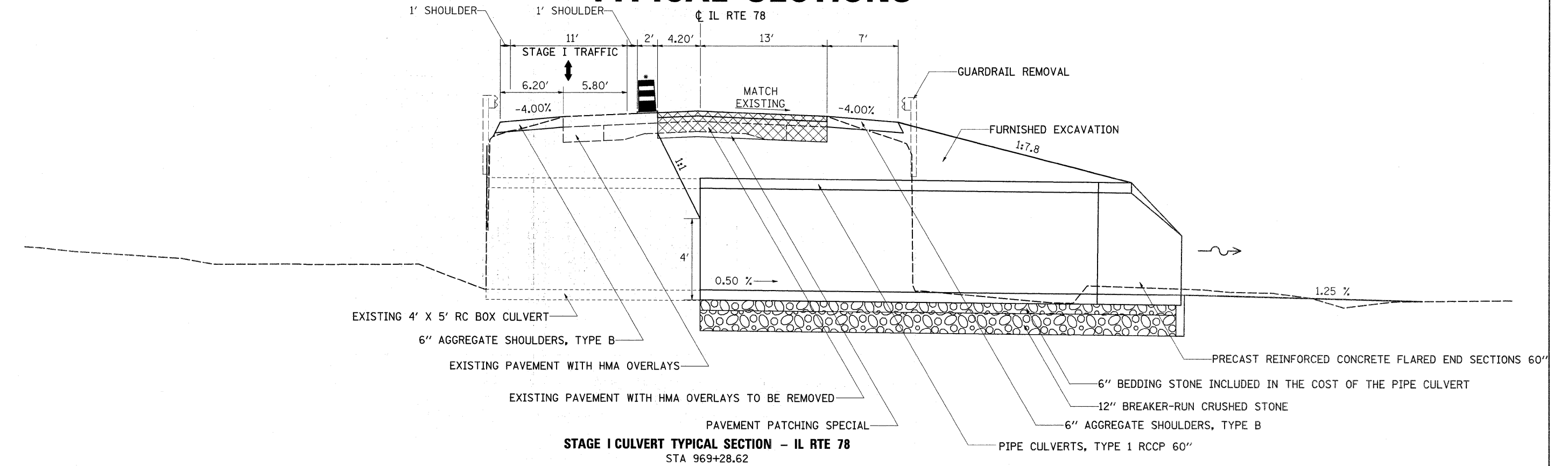


STAGE II CULVERT TYPICAL SECTION - IL RTE 78
STA 897+77.46

* DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\FWIDOT\GOFFJL\dms37299\d01107.tpd.dgn		DRAWN -	REVISED -					650	104T-2	JO DAVIESS	53	10
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. 5 OF 6 SHEETS STA. 897+77.46 TO STA. 897+77.46			CONTRACT NO. 64C79				
PLOT DATE = Mon Sep 21 07:55:26 2009		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL SECTIONS



* DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARDS

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os\pwork\PWIDOT\GOFFJL\dms37299\d01107.tpd.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					650	104T-2	JO DAVIESS	53	11
	PLOT DATE = Mon Sep 21 07:55:26 2009	CHECKED -	REVISED -		SCALE: SHEET NO. 6 OF 6 SHEETS STA. 969+28.62 TO STA. 969+28.62			CONTRACT NO. 64C79				
		DATE -	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	OFFSET (FT.)	UNIT	REMARKS
STA 969+24	58' LT	6	MEYER ROAD
STA 969+24	58' LT	6	MEYER ROAD
STA 969+24	58' LT	7	MEYER ROAD
STA 969+24	58' LT	6	MEYER ROAD
STA 969+24	58' LT	7	MEYER ROAD
STA 969+24	58' LT	8	MEYER ROAD
STA 969+24	58' LT	7	MEYER ROAD
STA 969+24	58' LT	6	MEYER ROAD
TOTAL			53

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

LOCATION	CU YD	REMARKS
STA 969 + 28.62	52	MEYER ROAD
TOTAL		52

20400800 FURNISHED EXCAVATION

LOCATION	TO	FROM	CU YD	REMARKS
STA 895 + 00	TO	STA 900 + 50	345	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	240	MEYER ROAD
TOTAL				585

25000210 SEEDING, CLASS 2A

LOCATION	TO	FROM	ACRE	REMARKS
STA 895 + 00	TO	STA 900 + 50	0.25	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	0.25	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.20	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.30	MEYER ROAD
TOTAL				1.00

25000310 SEEDING, CLASS 4

LOCATION	TO	FROM	ACRE	REMARKS
STA 895 + 00	TO	STA 900 + 50	0.05	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	0.08	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.07	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.05	MEYER ROAD
TOTAL				0.25

25000750 MOWING

LOCATION	TO	FROM	ACRE	REMARKS
STA 895 + 00	TO	STA 900 + 50	0.25	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	0.25	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.20	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.30	MEYER ROAD
TOTAL				1.00

25100115 MULCH, METHOD 2

LOCATION	TO	FROM	ACRE	REMARKS
STA 895 + 00	TO	STA 900 + 50	0.30	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	0.33	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.27	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	0.35	MEYER ROAD
TOTAL				1.25

25100630 EROSION CONTROL BLANKET

LOCATION	TO	FROM	SO YD	REMARKS
STA 895 + 00	TO	STA 900 + 50	1452	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	1598	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	1307	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	1694	MEYER ROAD
TOTAL				6051

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION	TO	FROM	POUND	REMARKS
STA 895 + 00	TO	STA 900 + 50	63	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	62	MEYER ROAD
			125	
TOTAL				375 3 APPLICATIONS

28000305 TEMPORARY DITCH CHECKS

LOCATION	TO	FROM	FOOT	REMARKS
STA 895 + 00	TO	STA 900 + 50	105	CHELSEA ROAD
STA 895 + 00	TO	STA 900 + 50	195	CHELSEA ROAD
STA 966 + 50	TO	STA 972 + 25.07	195	MEYER ROAD
STA 966 + 50	TO	STA 972 + 25.07	225	MEYER ROAD
TOTAL				720

28000400 PERIMETER EROSION BARRIER

LOCATION	TO	FROM	FOOT	REMARKS
STA 895 + 50	TO	STA 896 + 50	101	CHELSEA ROAD
STA 898 + 44.89	TO	STA 900 + 50	209	CHELSEA ROAD
STA 968 + 00	TO	STA 969 + 50	164	MEYER ROAD
TOTAL				474

28000500 INLET AND PIPE PROTECTION

LOCATION	TO	FROM	EACH	REMARKS
STA 896 + 74.95	LT		1	CHELSEA ROAD
STA 897 + 77.46	RT		1	CHELSEA ROAD
STA 967 + 65.95	LT		1	MEYER ROAD
STA 969 + 28.62	LT		1	MEYER ROAD
TOTAL				4

28100107 STONE RIPRAP, CLASS A4

LOCATION	TO	FROM	SO YD	REMARKS
STA 897 + 77.46	LT		117	CHELSEA ROAD
STA 897 + 77.46	RT		40	CHELSEA ROAD
STA 969 + 28.62	RT		33	MEYER ROAD
TOTAL				190

28200200 FILTER FABRIC

LOCATION	TO	FROM	SO YD	REMARKS
STA 897 + 77.46	LT		117	CHELSEA ROAD
STA 897 + 77.46	RT		40	CHELSEA ROAD
STA 969 + 28.62	RT		33	MEYER ROAD
TOTAL				190

SCHEDULE OF QUANTITIES

70300100 SHORT-TERM PAVEMENT MARKING LOCATION STA 897 + 38.33 TO STA 898 + 15.59 STA 969 + 08.68 TO STA 969 + 48.26 TOTAL	EQ FT REMARKS 156 CHELSEA ROAD - NO PASSING ZONE 80 MEYER ROAD - NO PASSING ZONE TOTAL 236	78300100 PAVEMENT MARKING REMOVAL LOCATION STA 894 + 73.27 TO STA 901 + 44.33 LT STA 895 + 91.61 TO STA 899 + 71.69 RT STA 894 + 16.14 TO STA 900 + 90.87 RT STA 895 + 86.20 TO STA 899 + 73.85 LT STA 894 + 06.10 RT STA 901 + 54.31 LT TOTAL	SO FT REMARKS 225 CHELSEA ROAD - STAGE I 127 CHELSEA ROAD - STAGE I 226 CHELSEA ROAD - STAGE II 130 CHELSEA ROAD - STAGE II 26 CHELSEA ROAD - SOUTH 26 CHELSEA ROAD - NORTH TOTAL 760
70300625 TEMPORARY PAINT PAVEMENT MARKING LINE 4" LOCATION STA 894 + 73.27 TO STA 901 + 44.33 LT STA 895 + 91.61 TO STA 899 + 71.69 RT STA 894 + 16.14 TO STA 900 + 90.87 RT STA 895 + 86.20 TO STA 899 + 73.85 LT TOTAL	EQ FT REMARKS 673 CHELSEA ROAD - STAGE I 381 CHELSEA ROAD - STAGE I 677 CHELSEA ROAD - STAGE II 388 CHELSEA ROAD - STAGE II TOTAL 2119	Z0005400 BREAKER-RUN CRUSHED STONE LOCATION STA 969 + 28.62 TOTAL	TON REMARKS 106 MEYER ROAD TOTAL 106
70300660 TEMPORARY PAINT PAVEMENT MARKING LINE 24" LOCATION OFFSET (FT.) STA 894 + 06.10 0.00' RT STA 901 + 54.31 0.00' LT TOTAL	EQ FT REMARKS 13 CHELSEA ROAD - SOUTH 13 CHELSEA ROAD - NORTH TOTAL 26	Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS LOCATION OFFSET (FT.) STA 896 + 11.73 53.52' RT STA 896 + 50.00 65.00' RT STA 897 + 50.00 65.00' RT TOTAL	EACH REMARKS 1 CHELSEA ROAD 1 CHELSEA ROAD 1 CHELSEA ROAD TOTAL 3
70301000 WORK ZONE PAVEMENT MARKING REMOVAL LOCATION STA 897 + 38.33 TO STA 898 + 15.59 STA 969 + 08.68 TO STA 969 + 48.26 TOTAL	SO FT REMARKS 52 CHELSEA ROAD 28 MEYER ROAD TOTAL 80	Z0029001 GRATED CULVERT EXTENSION, NO. 1 LOCATION STA 897 + 77.46 LT STA 897 + 77.46 RT TOTAL	EACH REMARKS 1 CHELSEA ROAD 1 CHELSEA ROAD TOTAL 2
70400100 TEMPORARY CONCRETE BARRIER LOCATION STA 895 + 76.13 TO STA 899 + 88.01 TOTAL	EQ FT REMARKS 420 CHELSEA ROAD - STAGE I TOTAL 420	Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 LOCATION CHELSEA ROAD - STAGE I TOTAL	EACH 2 TOTAL 2
70400200 RELOCATE TEMPORARY CONCRETE BARRIER LOCATION STA 895 + 76.13 TO STA 899 + 88.01 TOTAL	EQ FT REMARKS 420 CHELSEA ROAD - STAGE I TOTAL 420	Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 LOCATION CHELSEA ROAD - STAGE II TOTAL	EACH 2 TOTAL 2
78001110 PAINT PAVEMENT MARKING - LINE 4" LOCATION STA 895 + 00 TO STA 900 + 50 STA 895 + 00 TO STA 900 + 50 LT STA 895 + 00 TO STA 900 + 50 RT STA 966 + 50 TO STA 972 + 25.07 STA 966 + 50 TO STA 972 + 25.07 LT STA 966 + 50 TO STA 972 + 25.07 RT TOTAL	EQ FT REMARKS 1100 CHELSEA ROAD - NO PASSING ZONE 550 CHELSEA ROAD - WHITE EDGE LINE 550 CHELSEA ROAD - WHITE EDGE LINE 1150 MEYER ROAD - NO PASSING ZONE 575 MEYER ROAD - WHITE EDGE LINE 575 MEYER ROAD - WHITE EDGE LINE 4500 TOTAL 9000 2 APPLICATIONS	XX001135 PAVEMENT PATCHING SPECIAL LOCATION STA 969 + 08.68 TO STA 969 + 48.26 STA 969 + 08.68 TO STA 969 + 48.26 TOTAL	SO YD REMARKS 76 MEYER ROAD - STAGE I 225 MEYER ROAD - STAGE II TOTAL 301

EARTHWORK SCHEDULE

LOCATION	20200100 EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
CHELSEA ROAD				
STAGE I 895 + 00 - 900 + 50 LT	198	149	320	-172
STAGE II 895 + 00 - 900 + 50 RT	180	135	308	-173
MEYER ROAD				
STAGE II 966 + 50 - 972 + 50 LT	332	249	101	148
STAGE I 966 + 50 - 972 + 50 RT	111	83	469	-386
TOTALS	821	616	1198	-583

HORIZONTAL & VERTICAL CONTROL

Chain IL78 contains:
260 CUR 200 210 CUR 220 CUR 230 CUR 240 CUR 250 A10717

Beginning chain IL78 description
=====

Point 260 N 2,072,595.3220 E 2,346,710.1504 Sta 710+17.41
Course from 260 to PC 200 N 2° 14' 17.01" W Dist 2,254.0414'

Curve Data

Curve 200
P.I. Station 735+28.83 N 2,075,104.8272 E 2,346,612.0755
Delta = 0° 26' 34.53" (RT)
Degree = 0° 05' 09.76"
Tangent = 257.3795'
Length = 514.7564'
Radius = 66,587.9424'
External = 0.4974'
Long Chord = 514.7552'
Mid. Ord. = 0.4974'
P.C. Station 732+71.45 N 2,074,847.6440 E 2,346,622.1266
P.T. Station 737+86.21 N 2,075,362.0804 E 2,346,604.0129
C.C. N 2,077,448.0063 E 2,413,159.2756

Course from PT 200 to 210 N 1° 47' 42.48" W Dist 5,062.9086'
Point 210 N 2,080,422.5042 E 2,346,445.4128 Sta 788+49.11
Course from 210 to PC 220 N 2° 02' 04.01" W Dist 6,665.9263'

Curve Data

Curve 220
P.I. Station 859+61.57 N 2,087,530.4720 E 2,346,192.9182
Delta = 0° 29' 09.68" (RT)
Degree = 0° 03' 15.92"
Tangent = 446.5247'
Length = 893.0441'
Radius = 105,278.1778'
External = 0.9469'
Long Chord = 893.0414'
Mid. Ord. = 0.9469'
P.C. Station 855+15.04 N 2,087,084.2287 E 2,346,208.7700
P.T. Station 864+08.09 N 2,087,976.8336 E 2,346,180.8523
C.C. N 2,090,821.6417 E 2,451,420.5872

Course from PT 220 to PC 230 N 1° 32' 54.33" W Dist 5,696.2427'

Curve Data

Curve 230
P.I. Station 925+78.19 N 2,094,144.6843 E 2,346,014.1249
Delta = 0° 29' 23.48" (LT)
Degree = 0° 03' 06.08"
Tangent = 473.8610'
Length = 947.7163'
Radius = 110,849.1710'
External = 1.0128'
Long Chord = 947.7134'
Mid. Ord. = 1.0128'
P.C. Station 921+04.33 N 2,093,670.9963 E 2,346,026.9295
P.T. Station 930+52.04 N 2,094,618.2455 E 2,345,997.2710
C.C. N 2,090,675.6499 E 2,235,218.2358

Course from PT 230 to PC 240 N 2° 02' 17.81" W Dist 4,050.1293'

Curve Data

Curve 240
P.I. Station 978+66.16 N 2,099,429.3157 E 2,345,826.0463
Delta = 0° 22' 49.58" (LT)
Degree = 0° 01' 29.63"
Tangent = 763.9868'
Length = 1,527.9680'
Radius = 230,118.0312'
External = 1.2682'
Long Chord = 1,527.9652'
Mid. Ord. = 1.2682'
P.C. Station 971+02.17 N 2,098,665.8123 E 2,345,853.2192
P.T. Station 986+30.14 N 2,100,192.6219 E 2,345,793.8045
C.C. N 2,090,481.1562 E 2,115,880.7867

Course from PT 240 to PC 250 N 2° 25' 07.40" W Dist 4,334.4869'

Curve Data

Curve 250
P.I. Station 1033+60.75 N 2,104,919.0177 E 2,345,594.1627
Delta = 1° 09' 54.45" (RT)
Degree = 0° 08' 49.46"
Tangent = 396.1234'
Length = 792.2196'
Radius = 38,957.9140'
External = 2.0138'
Long Chord = 792.2059'
Mid. Ord. = 2.0137'
P.C. Station 1029+64.63 N 2,104,523.2472 E 2,345,610.8800
P.T. Station 1037+56.85 N 2,105,315.0463 E 2,345,585.4965
C.C. N 2,106,167.3532 E 2,384,534.0861

Course from PT 250 to A10717 N 1° 15' 12.95" W Dist 8,121.8796'

Point A10717 N 2,113,434.9820 E 2,345,407.8090 Sta 1118+78.73

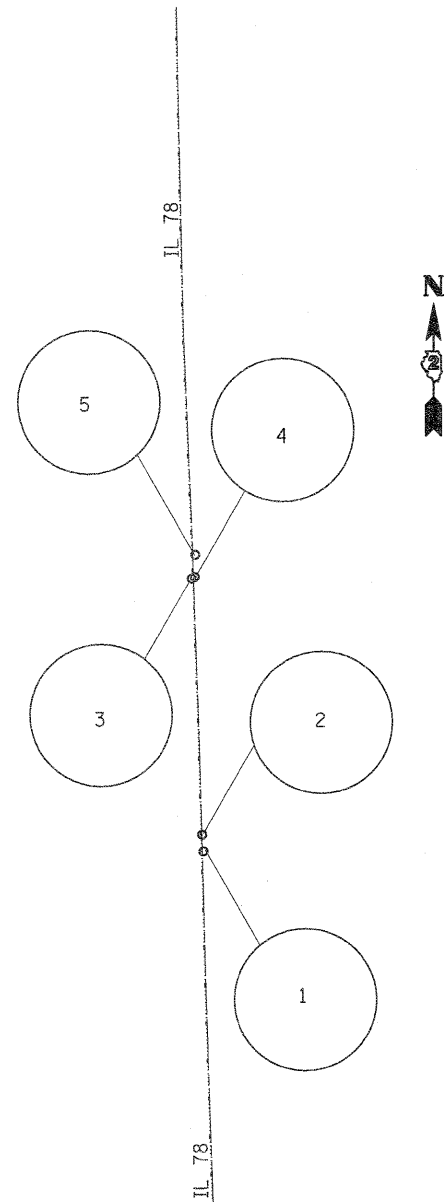
Ending chain IL78 description

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL78	200	200	201	202	203
IL78	220	220	221	222	223
IL78	230	230	231	232	233
IL78	240	240	241	242	243
IL78	250	250	251	252	253

BENCH MARKS

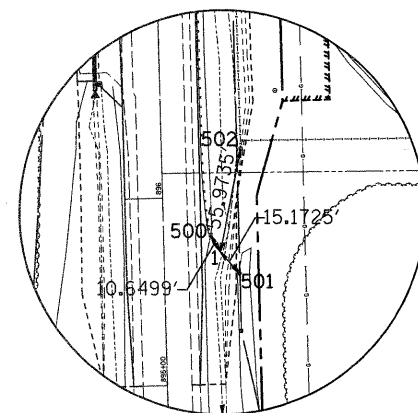
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2080638.7999	2346396.4696	915.1014	IL78	790+67.01	41.2338' LT	R.O.W. MARKER, TOE
401	2085240.8157	2346310.8035	941.1846	IL78	836+69.17	36.5273' RT	PLUG, VERTICAL CONTROL STATION
402	2088476.7743	2346204.2006	960.1728	IL78	869+07.21	36.849' RT	PLUG, VERTICAL CONTROL STATION
403	2091282.6917	2346040.8798	942.6411	IL78	897+16.52	50.5911' LT	PLUG, VERTICAL CONTROL STATION
404	2093985.3500	2346054.8088	958.0627	IL78	924+17.71	36.8067' RT	VERTICAL CONTROL STATION
405	2095007.5051	2345966.0125	907.9535	IL78	934+42.17	17.3938' LT	VERTICAL CONTROL STATION
406	2095743.1005	2345939.9744	905.5226	IL78	941+78.23	17.2524' LT	VERTICAL CONTROL STATION
407	2096484.8675	2345871.1424	901.9020	IL78	949+21.97	59.6583' LT	VERTICAL CONTROL STATION
408	2104565.6335	2345526.4661	980.4665	IL78	1030+10.44	82.5769' LT	VERTICAL CONTROL STATION
409	2106520.8072	2345593.6169	952.7421	IL78	1049+62.14	34.4977' RT	DISK, PERM. SURVEY MARKER
410	2107074.5128	2345503.5365	932.3151	IL78	1055+17.69	43.4474' LT	PLUG, VERTICAL CONTROL STATION
411	2107192.6751	2345501.2725	944.1208	IL78	1056+35.87	43.1258' LT	DISK, PERM. SURVEY MARKER
412	2112376.6533	2345389.6008	945.0177	IL78	1108+21.05	41.3576' LT	PLUG, VERTICAL CONTROL STATION
413	2114773.2537	2345434.9286	993.6375	IL78	OUT OF CHAIN	-----	VERTICAL CONTROL STATION
414	2079076.0472	2346520.2903	921.3792	IL78	775+00.97	32.6618' RT	VERTICAL CONTROL STATION
415	2076141.4069	2346620.7288	988.6119	IL78	745+64.63	41.1208' RT	VERTICAL CONTROL STATION
416	2072530.3139	2346744.0523	967.0659	IL78	OUT OF CHAIN	-----	VERTICAL CONTROL STATION

HORIZONTAL & VERTICAL CONTROL

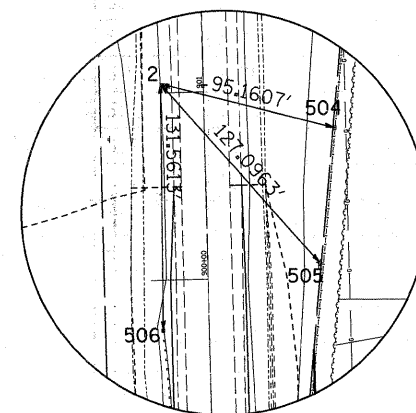


REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	IL78	895+80.02	25.0095' RT	VERTICAL CONTROL STATION, END
501	IL78	895+58.78	39.4688' RT	END, SHINER
502	IL78	896+25.19	42.1916' RT	SHINER, SHINER
503	IL78	897+19.79	52.3491' LT	SHINER, WITNESS CORNER
504	IL78	900+79.25	69.1067' RT	WITNESS CORNER, SHINER
505	IL78	900+07.64	59.366' RT	SHINER, SHINER
506	IL78	899+73.26	24.4282' LT	SHINER, END
507	IL78	970+22.48	58.3814' RT	END, SHINER
508	IL78	970+24.25	59.4454' RT	SHINER, BACK
509	IL78	970+42.72	23.628' RT	BACK, END
510	IL78	969+15.03	62.4987' RT	END, SHINER
511	IL78	968+70.90	58.8292' RT	SHINER, SHINER
512	IL78	967+90.24	24.2116' RT	SHINER, END
513	IL78	968+15.27	24.1756' LT	END, END
514	IL78	968+26.12	64.6446' LT	END, SHINER
515	IL78	968+71.06	64.8485' LT	SHINER, SHINER
516	IL78	974+26.85	79.1346' RT	SHINER, SHINER
517	IL78	974+66.65	78.8547' RT	SHINER, SHINER
518	IL78	975+23.74	77.1549' RT	SHINER, SHINER

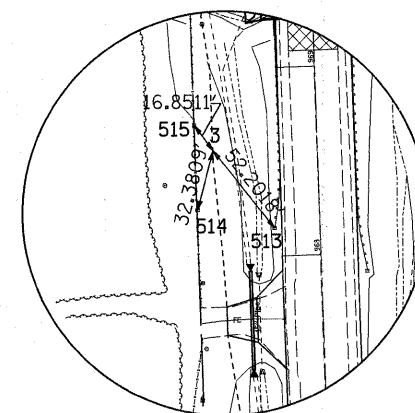
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2091138.9822	2346125.3184	946.5432	IL78	895+70.58	29.9334' RT	TOPO SURVEY POINT, PIN
2	2091671.6015	2346058.4108	943.1979	IL78	901+04.81	22.5575' LT	TOPO SURVEY POINT, PIN
3	2098418.9627	2345806.6202	923.7272	IL78	968+57.14	55.3493' LT	TOPO SURVEY POINT, PIN
4	2098472.8762	2345889.5556	921.3874	IL78	969+08.07	29.4512' RT	TOPO SURVEY POINT, PIN
5	2098994.7860	2345893.8600	939.3929	IL78	974+29.42	52.5485' RT	TOPO SURVEY POINT, PIN



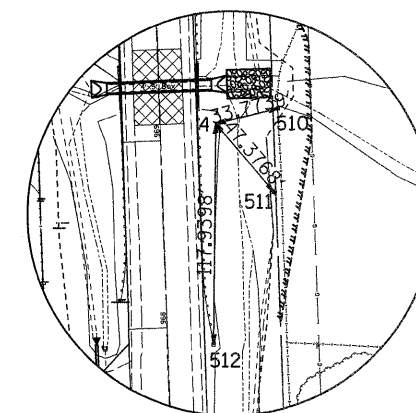
HORIZONTAL CONTROL POINT NO. 1



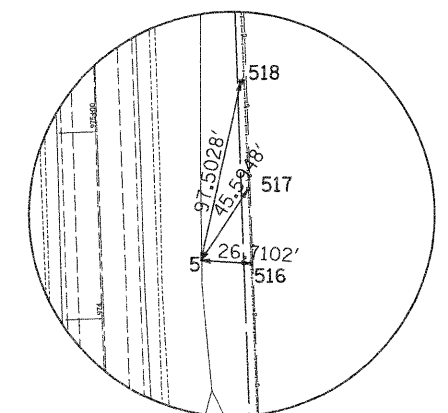
HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3



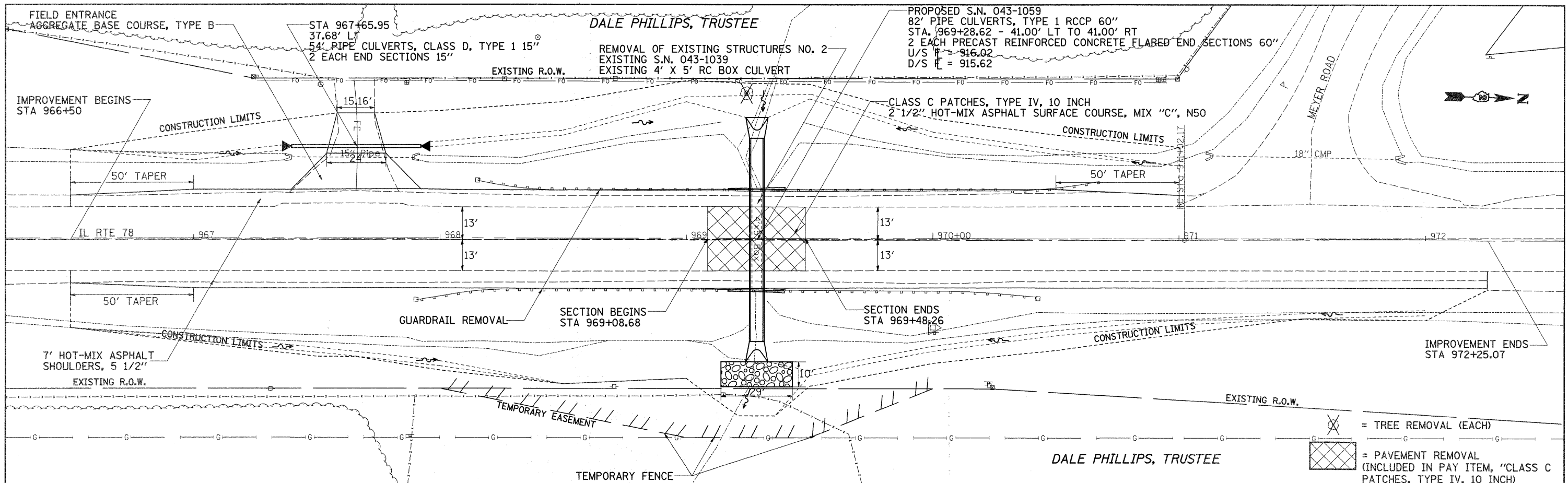
HORIZONTAL CONTROL POINT NO. 4



HORIZONTAL CONTROL POINT NO. 5

DATE: _____
 BY: _____
 SURVEYED _____
 ALIGNED _____
 CHECKED _____
 R/L OF WAY CHECKED _____
 NOTE BOOK NO. _____
 CADD FILE NAME _____

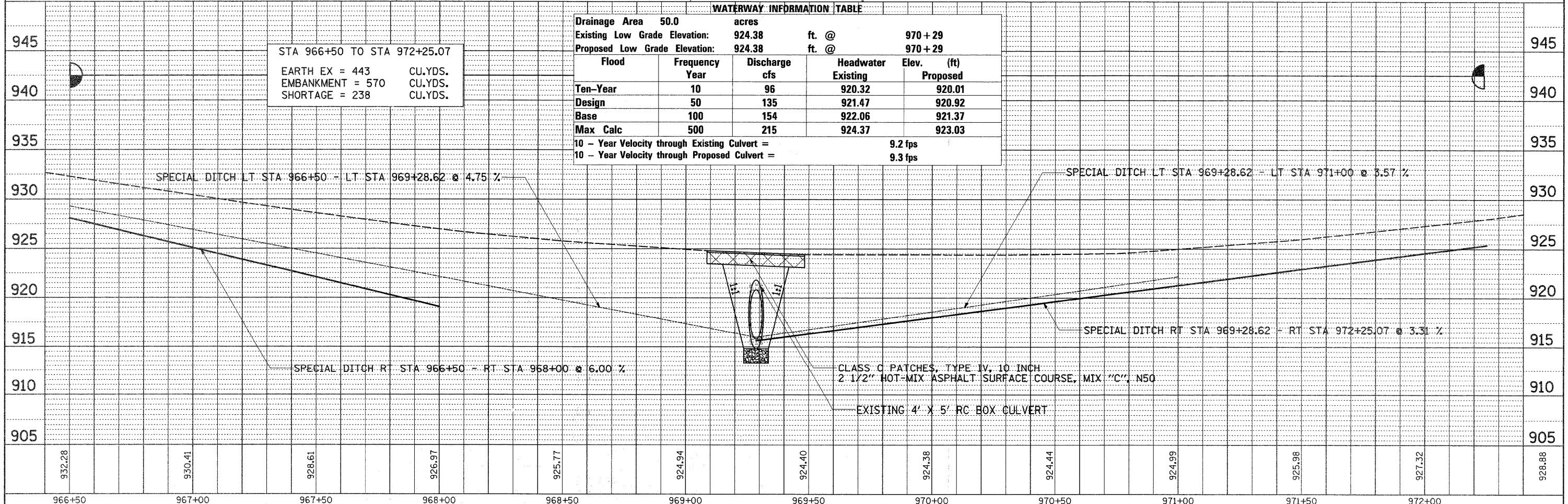
DATE: _____
 BY: _____
 SURVEYED _____
 GRADES CHECKED _____
 B.M. NOTED _____
 STRUCTURE NOTATIONS CRPD _____
 NOTE BOOK NO. _____



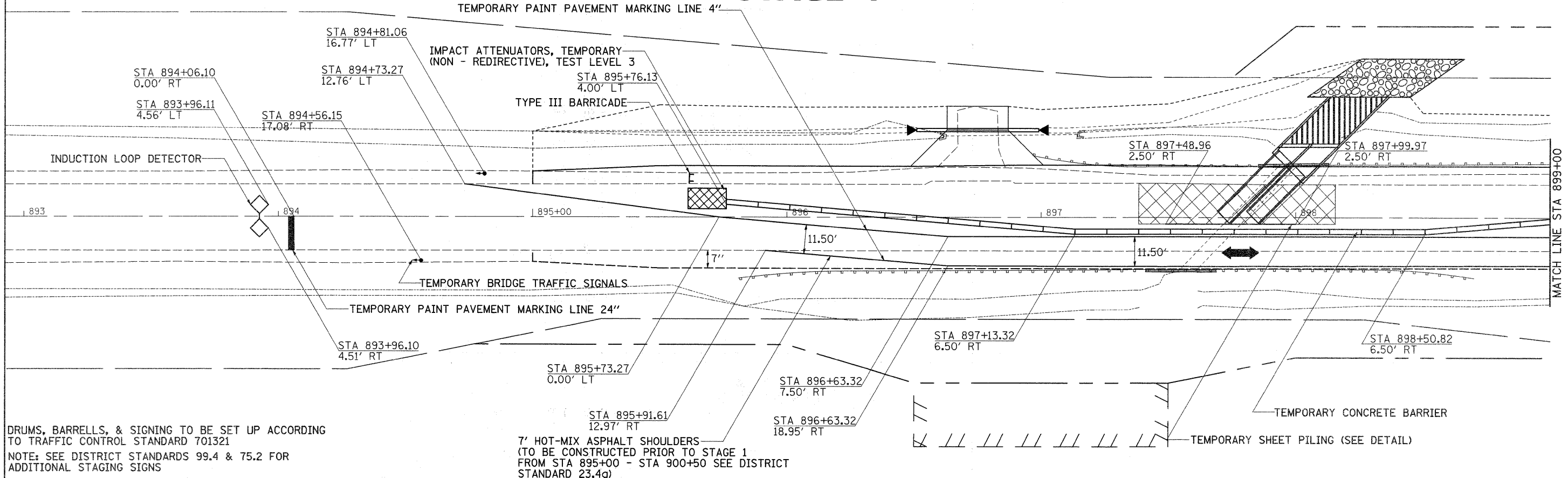
WATERWAY INFORMATION TABLE

Drainage Area	50.0	acres		
Existing Low Grade Elevation:	924.38	ft. @	970+29	
Proposed Low Grade Elevation:	924.38	ft. @	970+29	
Flood	Frequency	Discharge	Headwater	Elev. (ft)
	Year	cfs	Existing	Proposed
Ten-Year	10	96	920.32	920.01
Design	50	135	921.47	920.92
Base	100	154	922.06	921.37
Max Calc	500	215	924.37	923.03
10 - Year Velocity through Existing Culvert =			9.2 fps	
10 - Year Velocity through Proposed Culvert =			9.3 fps	

STA 966+50 TO STA 972+25.07	
EARTH EX = 443	CU.YDS.
EMBANKMENT = 570	CU.YDS.
SHORTAGE = 238	CU.YDS.



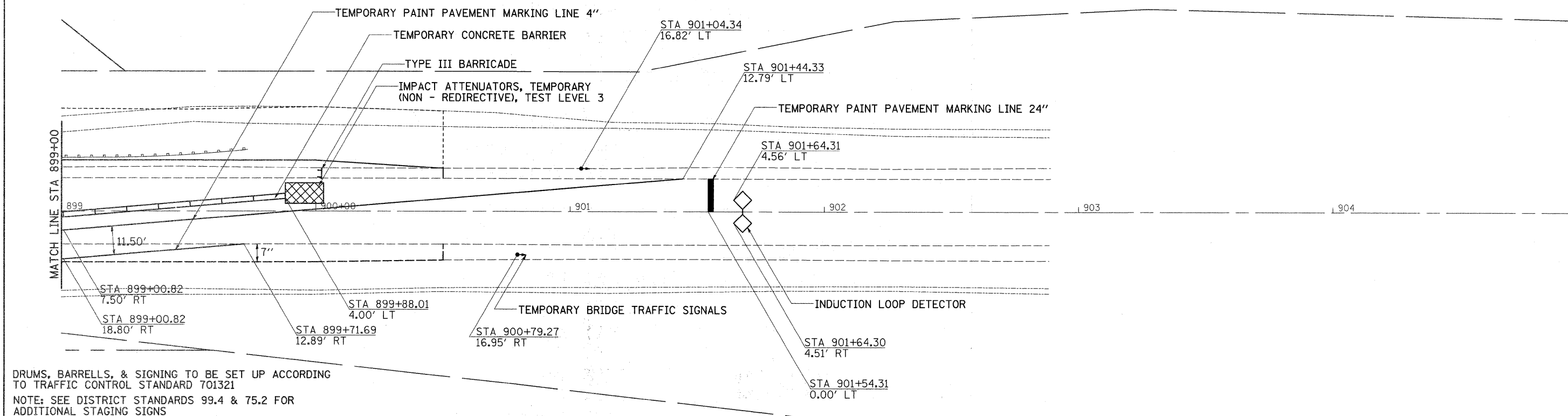
STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321
 NOTE: SEE DISTRICT STANDARDS 99.4 & 75.2 FOR ADDITIONAL STAGING SIGNS

7' HOT-MIX ASPHALT SHOULDERS (TO BE CONSTRUCTED PRIOR TO STAGE 1 FROM STA 895+00 - STA 900+50 SEE DISTRICT STANDARD 23.4a)

STAGE 1



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321
 NOTE: SEE DISTRICT STANDARDS 99.4 & 75.2 FOR ADDITIONAL STAGING SIGNS

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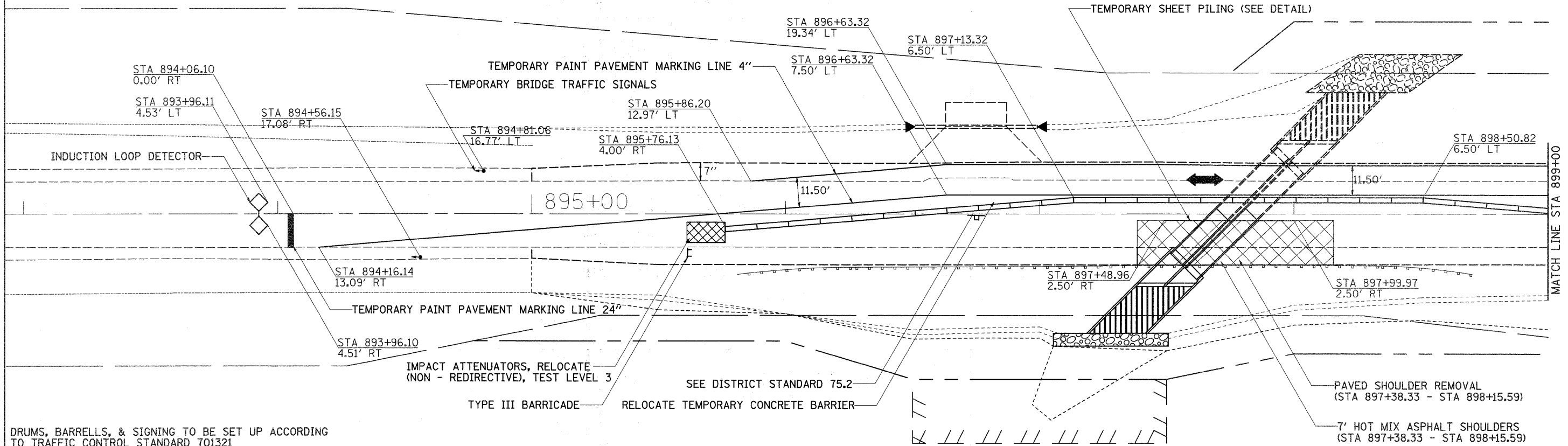
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGING DETAILS

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

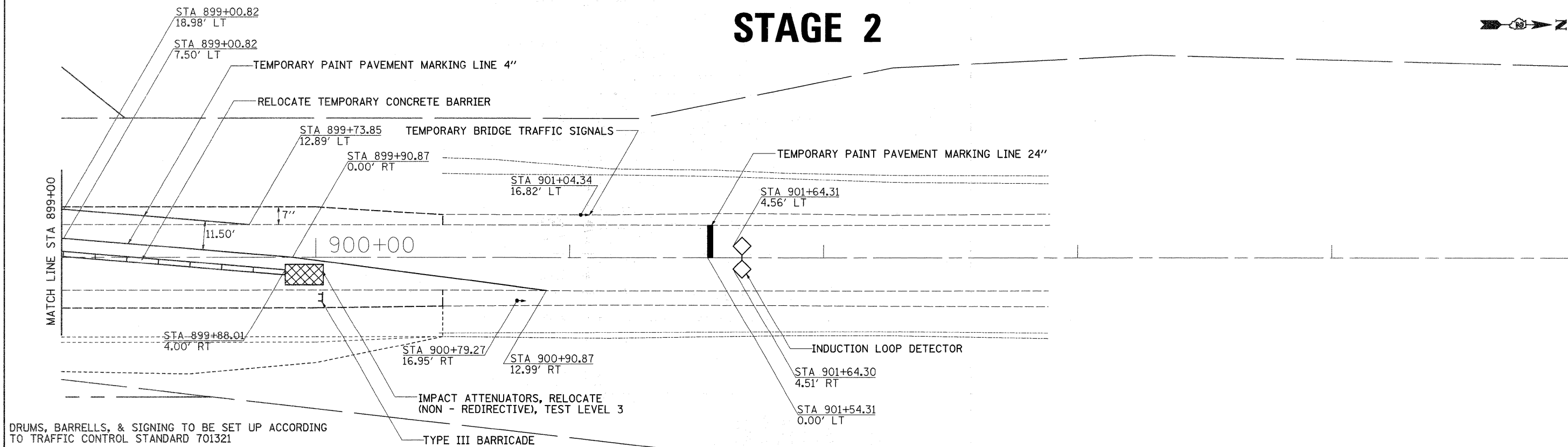
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	104T-2	JO DAVIESS	53	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64C79				

STAGE 2



DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321
 NOTE: SEE DISTRICT STANDARDS 99.4 & 75.2 FOR ADDITIONAL STAGING SIGNS

STAGE 2

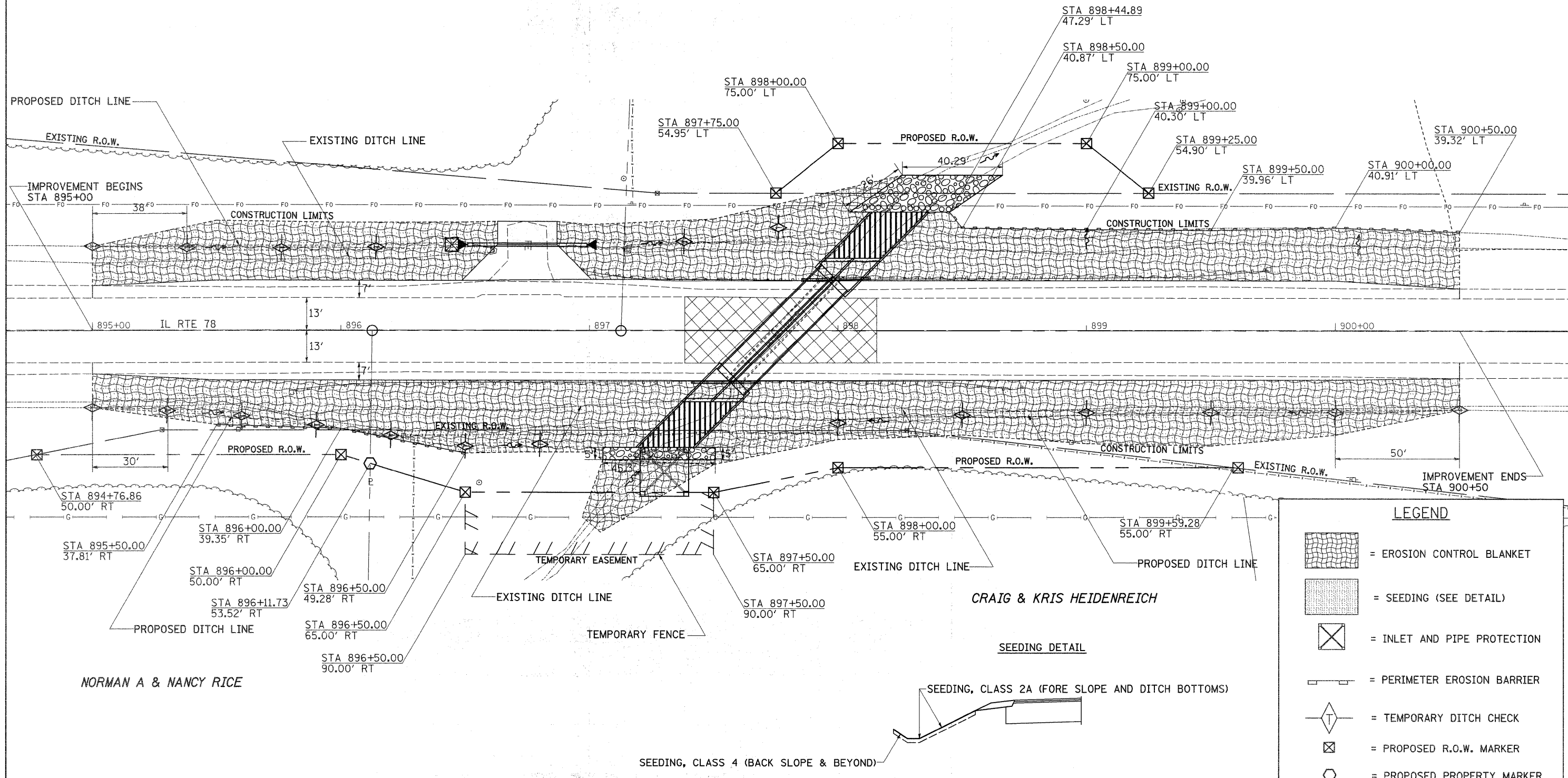


DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO TRAFFIC CONTROL STANDARD 701321
 NOTE: SEE DISTRICT STANDARDS 99.4 & 75.2 FOR ADDITIONAL STAGING SIGNS




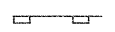
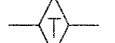


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		PLOT DATE = Mon Sep 21 07:55:15 2009	REVISED -									
								FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
								CONTRACT NO. 64CT9				

R.O.W., EROSION CONTROL, & SEEDING DETAILS

ANELENE HEIDENREICH



LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET AND PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK
-  = PROPOSED R.O.W. MARKER
-  = PROPOSED PROPERTY MARKER

CRAIG & KRIS HEIDENREICH

SEEDING DETAIL

NORMAN A & NANCY RICE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

R.O.W., EROSION, & SEEDING DETAILS

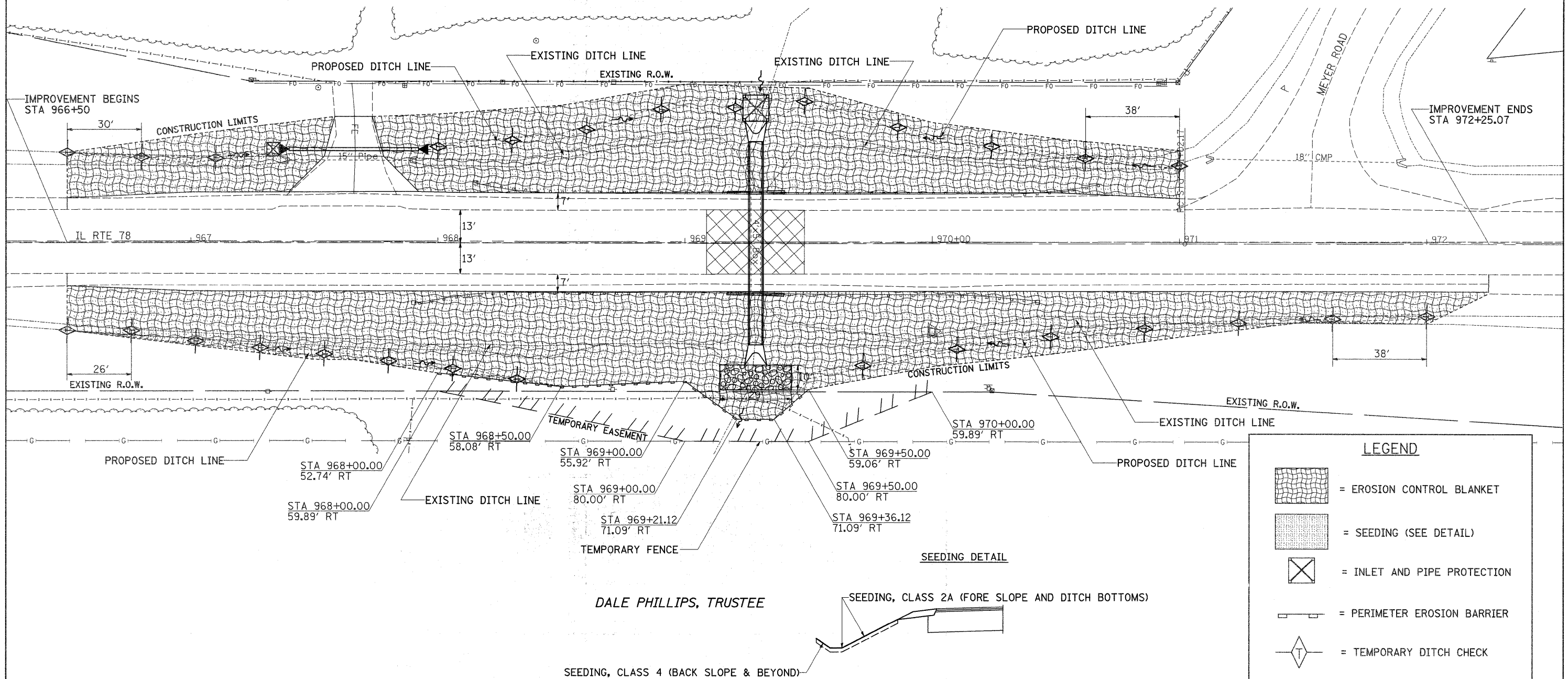
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64C79		

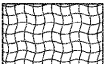




R.O.W., EROSION CONTROL, & SEEDING DETAILS



DALE PHILLIPS, TRUSTEE



LEGEND

-  = EROSION CONTROL BLANKET
-  = SEEDING (SEE DETAIL)
-  = INLET AND PIPE PROTECTION
-  = PERIMETER EROSION BARRIER
-  = TEMPORARY DITCH CHECK

SEEDING DETAIL

SEEDING, CLASS 2A (FORE SLOPE AND DITCH BOTTOMS)

SEEDING, CLASS 4 (BACK SLOPE & BEYOND)

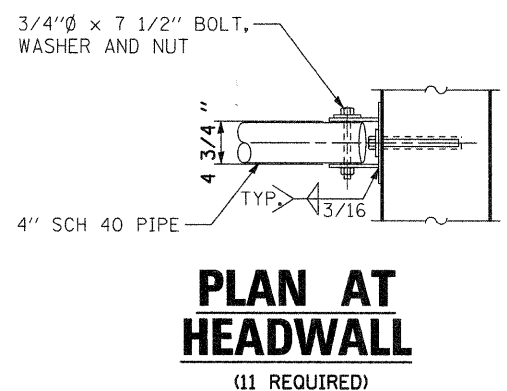
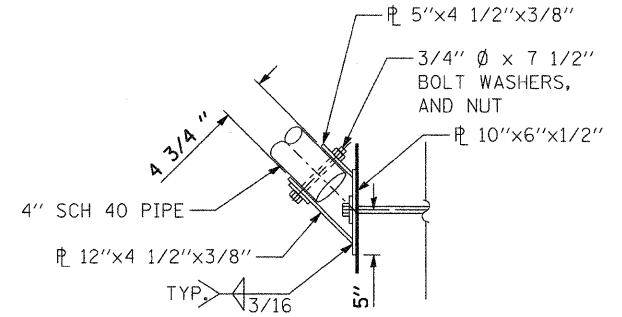
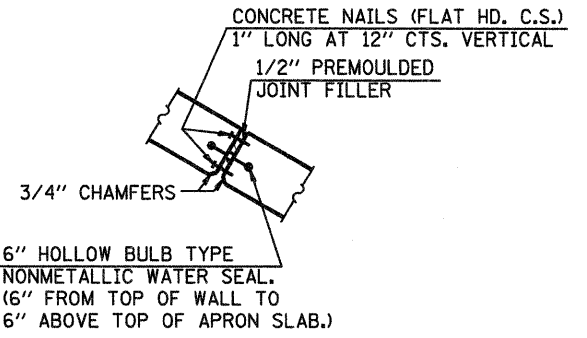
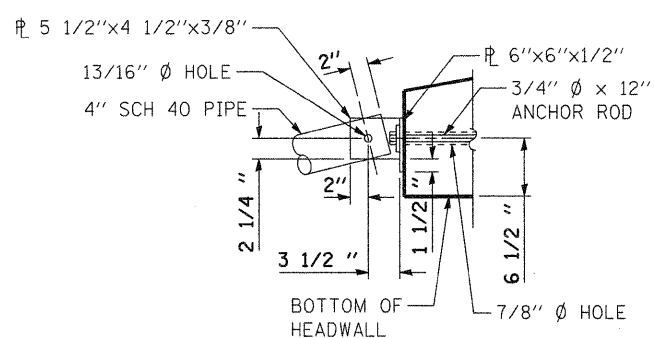
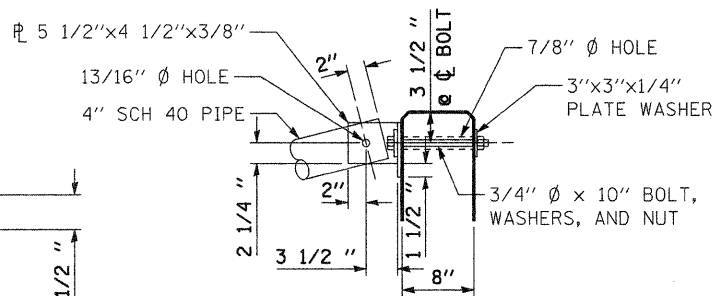
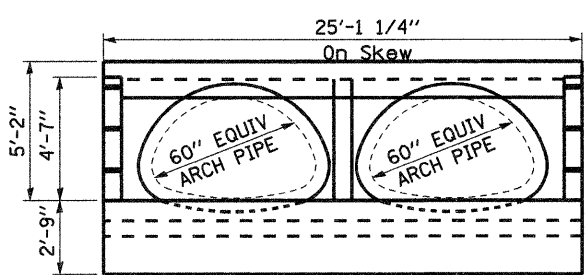
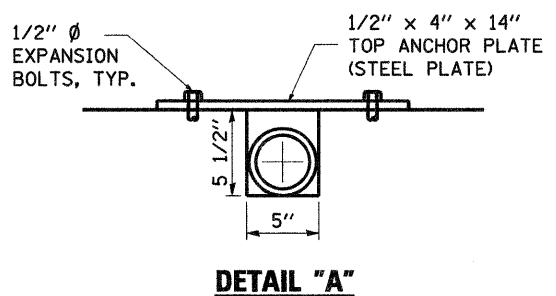
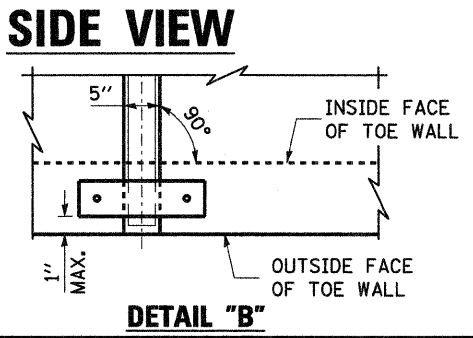
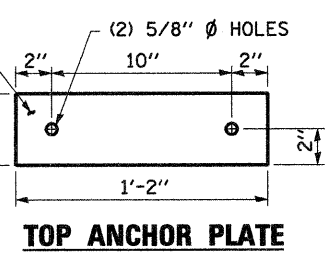
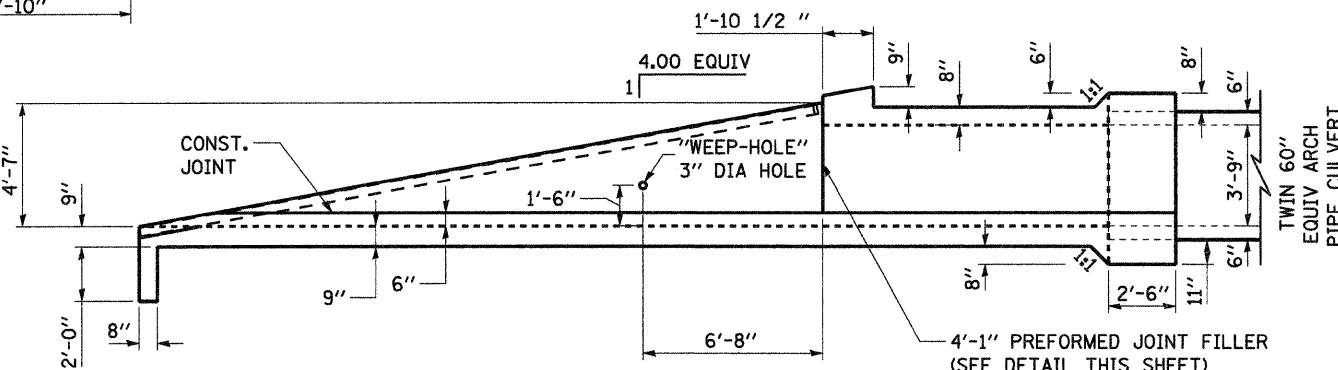
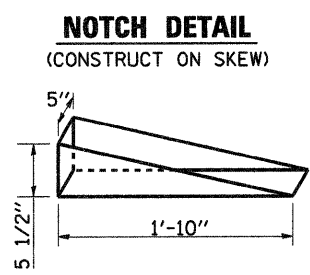
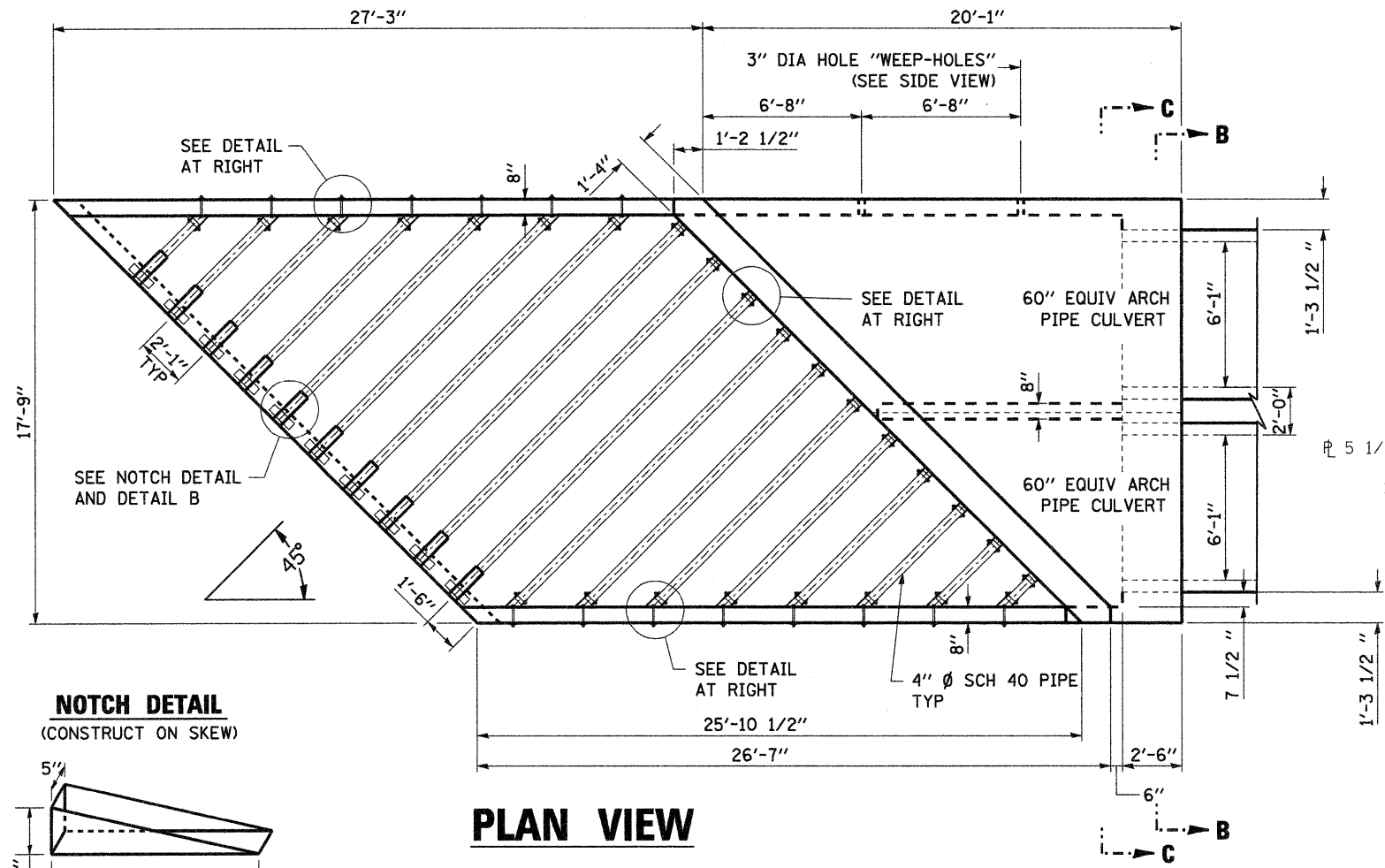
DALE PHILLIPS, TRUSTEE

FILE NAME =	USER NAME = goff_jl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	R.O.W., EROSION, & SEEDING DETAILS			F.A.P. RTE. 650	SECTION 104T-2	COUNTY JO DAVIESS	TOTAL SHEETS 53	SHEET NO. 24
CONTRACT NO. 64C79	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = Mon Sep 21 07:54:29 2009	CHECKED -	REVISED -									
		DATE -	REVISED -									

GRATED CULVERT EXTENSION, NO. 1

SN 043-1041 - RT & LT STA. 897+77.46 (IL RTE 78)

CULVERT @ 45° SKEW TO RDWY



TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN CONFORMS TO THE AASHTO ROADSIDE DESIGN GUIDE. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



COMPANY NAME: SEC GROUP, INC.
PROJECT CONTACT: ROBERT DAVIS
DATE PLOTTED: 8/4/2009 10:01:55 AM
FILE NAME: IL-78-897-1041.dwg
PLOT DRIVER: pldt0101
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PLOT DATE = 8/4/2009	CHECKED - RGD	REVISED -
	DATE - 4/22/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRATED CULVERT EXTENSION, NO. 1 RT & LT STA. 897+77.46			
SHEET 1 OF 3			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE. 650	SECTION 104T-2	COUNTY JODAVIES	TOTAL SHEETS 53	SHEET NO. 25
CONTRACT NO. 64C79				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

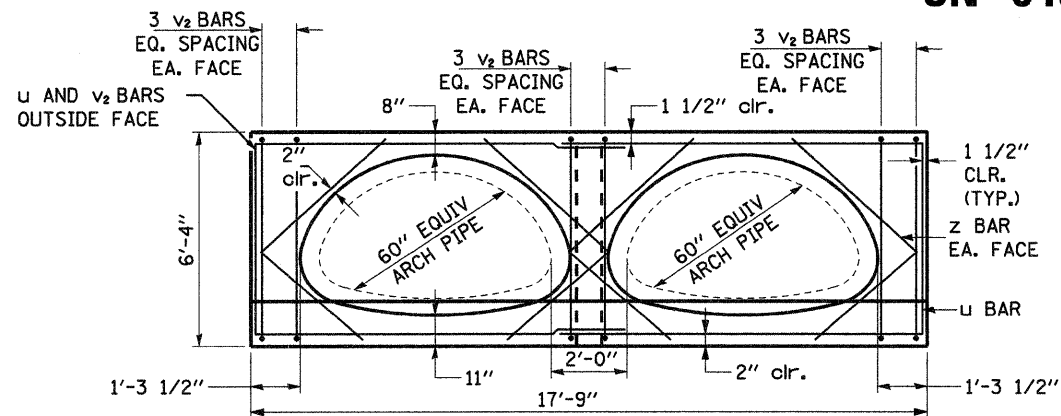
GRATED CULVERT EXTENSION, NO. 1

SN 043-1041 - RT & LT STA. 897+77.46 (IL RTE 78)

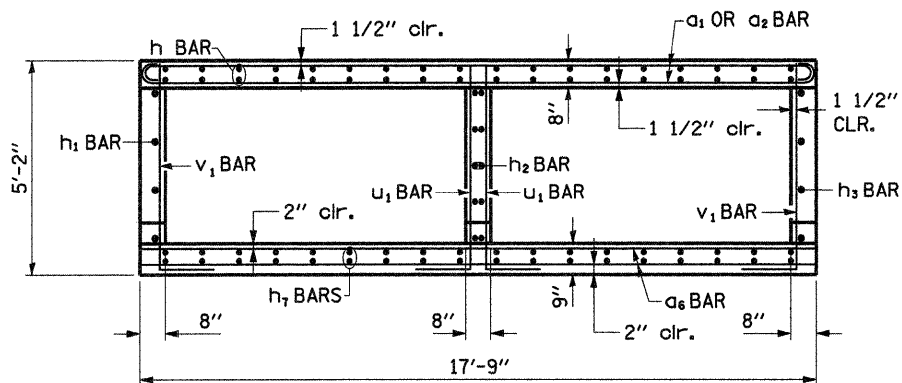
CULVERT @ 45° SKEW TO RDWY

BILL OF BARS - ONE STRUCTURE
(TOTAL OF TWO REQUIRED) (FOR INFORMATION ONLY)

BAR	NO.	SIZE	LENGTH	SHAPE
a	3	#4	24'-9"	▬▬▬
a ₁	30	#6	18'-11"	▬▬▬
a ₂	6	#6	18'-9"	▬▬▬
a ₅	18	#5	17'-10"	▬▬▬
a ₆	54	#5	17'-5"	▬▬▬
d	26	#4	5'-0"	└┘
d ₁	52	#4	5'-3"	└┘
f	36	#4	3'-6"	└┘
h	18	#5	25'-0"	▬▬▬
h ₁	4	#5	21'-0"	▬▬▬
h ₂	8	#5	12'-6"	▬▬▬
h ₃	4	#5	4'-0"	▬▬▬
h ₄	6	#6	24'-8"	▬▬▬
h ₅	9	#4	25'-3"	▬▬▬
h ₆	2	#4	25'-11"	▬▬▬
h ₇	36	#5	26'-0"	▬▬▬
h ₈	18	#5	24'-0"	▬▬▬
s	26	#4	4'-11"	└┘
u	6	#6	31'-7"	▬▬▬
u ₁	32	#4	6'-6"	└┘
v	12	#4	6'-5"	▬▬▬
v ₁	31	#4	6'-6"	▬▬▬
v ₂	18	#4	7'-7"	▬▬▬
z	8	#4	8'-3"	<



SECTION B-B
(REINFORCEMENT DETAIL)



SECTION C-C
(REINFORCEMENT DETAIL)

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR GRATED CULVERT EXTENSION, NO. 1 AND THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CONCRETE STRUCTURES, REINFORCEMENT BARS, ANCHOR RODS, EXPANSION BOLTS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PRE-FORMED JOINT FILLER, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE GRATED CULVERT EXTENSION AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CONCRETE STRUCTURES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE PORTIONS OF SECTION 503. ONLY CLASS SI CONCRETE SHALL BE USED. EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR END SECTION IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED. ALL BOLTS SHALL HAVE WASHERS AT EACH END.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-53. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-270, GR 36 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

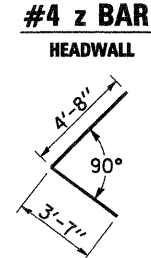
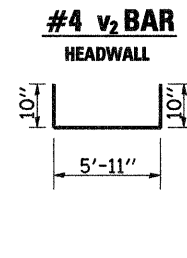
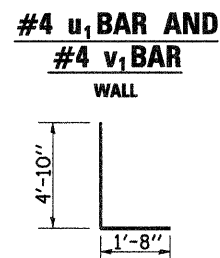
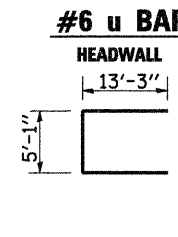
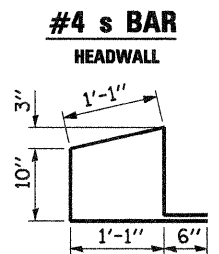
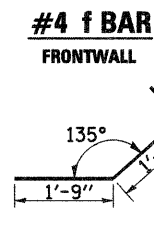
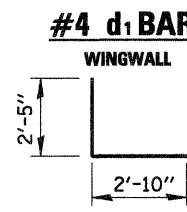
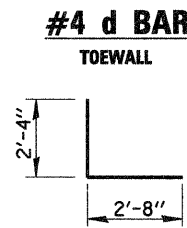
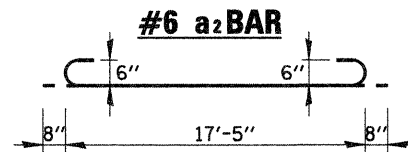
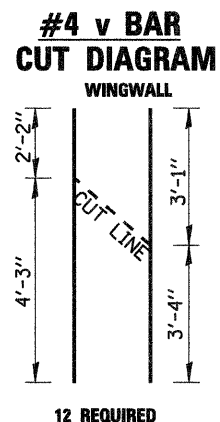
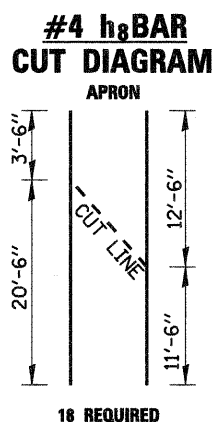
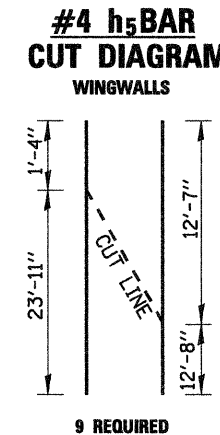
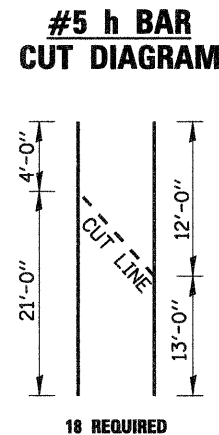
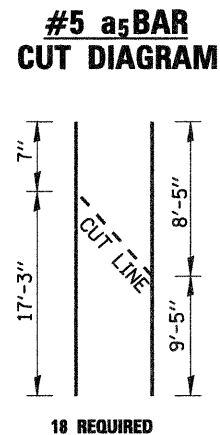
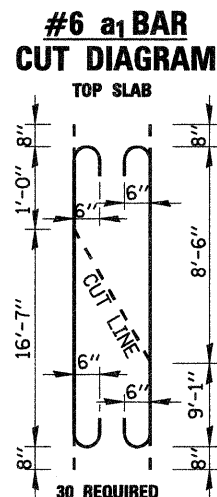
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATION.

GRATING DESIGN CONFORMS TO AASHTO ROADSIDE DESIGN GUIDE ART. 3.4.2.1.

ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD.

ANCHOR RODS SHALL BE FABRICATED IN ACCORDANCE WITH ARTICLE 1006.09 AND INSTALLED IN ACCORDANCE WITH ARTICLE 521.06.



MINIMUM BAR LAP

- #4 = 1'-8"
- #5 = 2'-2"
- #6 = 2'-7"
- #7 = 3'-5"

BILL OF MATERIALS
GRATED CULVERT EXTENSION, NO. 1

DESCRIPTION	UNIT	QTY.
CONCRETE STRUCTURES	CU YD	38.3
REINFORCEMENT BARS	LB	6,420
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	3 AT 18'-1 1/2"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 16'-5"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 14'-3"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 12'-1 1/2"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 9'-11 3/4"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 7'-10"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 5'-8"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	2 AT 3'-5 1/4"
4" GALVANIZED STEEL PIPE, SCH 40	FOOT	1 AT 1'-4 1/2"
10 1/4" X 4 1/2" X 3/8" GALV. STEEL PLATE	EACH	15
10" X 6" X 1/2" GALV. STEEL PLATE	EACH	15
5" X 4 1/2" X 3/8" GALV. STEEL PLATE	EACH	15
3" X 3" X 1/4" GALV. STEEL PLATE	EACH	30
5 1/2" X 4 1/2" X 3/8" GALV. STEEL PLATE	EACH	22
6" X 6" X 1/2" GALV. STEEL PLATE	EACH	11
14" X 4" X 1/2" GALV. STEEL PLATE	EACH	10
3/4" X 7 1/2" GALV. STEEL BOLTS	EACH	26
3/4" X 10" GALV. STEEL BOLTS	EACH	15
EXPANSION BOLTS 1/2" DIA.	EACH	20
ANCHOR RODS 3/4" DIA. X 12"	EACH	11

COMPANY NAME: SEC GROUP, INC.
 PROJECT CONTACT: ROBERT DAVIES
 CLIENT: JODAVIES
 DATE PLOTTED: 8/4/2009 10:02:37 AM
 FILE NAME: IL-78.dgn
 PLOT DRIVER: pdf.plt
 PEN TABLE: Structure.tbl



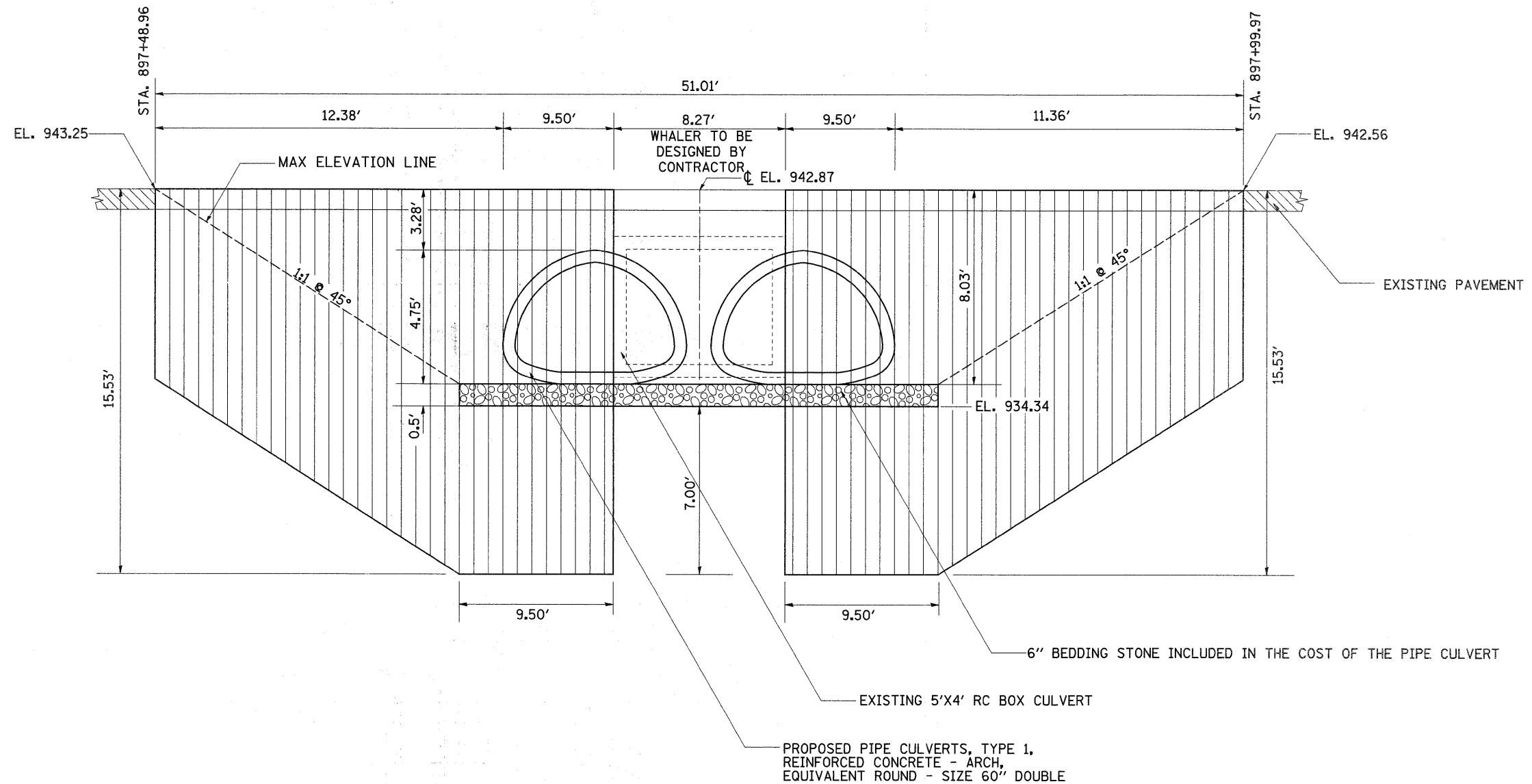
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	DATE - 4/22/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRATED CULVERT EXTENSION, NO. 1 RT & LT STA. 897+77.46
SHEET 3 OF 3

F.A.P. RTE. 650	SECTION 104T-2	COUNTY JODAVIES	TOTAL SHEETS 53	SHEET NO. 27
CONTRACT NO. 64C79			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

TEMPORARY SHEET PILING DETAIL



STAGE 1 & STAGE 2

STA 897+77.46 (LOOKING WEST)
S.N. 043-1060

TEMPORARY SHEET PILING DATA:

EMBEDMENT: 7'-0" BEYOND MAX. EXCAVATION
(MIN.) SECTION MODULUS: 4.5 in³/ft.
F_y: 38,500 psi.

GENERAL NOTES:

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

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SHEET PILING DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -							
PLOT DATE = Mon Sep 21 07:55:07 2009		DATE -	REVISED -							
						SCALE:		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT										

SOIL BORING LOGS



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

SOIL BORING LOG

Page 1 of 1

Date 7/10/06

ROUTE IL 78 DESCRIPTION P92-011-07 Box culvert on IL 78, .1 m. S. of Meyer Road LOGGED BY P. Drezen

SECTION _____ LOCATION Rush Twp. - 13 NE, SEC. , TWP. 28N, RNG. 4E

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

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(/6")	(tsf)	(%)
043-1039							92.00		85.7	87.7						
B-2b	+08 S. Culv. Ctr.															
	14.50ft E CL															
	99.70															
MEDIUM brown LOAM				1.0	19.0											
				P			78.20									
STIFF brown LOAM with GRAVEL	97.20		4													
			4	1.3	14.0											
	95.70		4	P			75.70									
STIFF brown SANDY LOAM with GRAVEL			6													
			5	1.3	14.0											
	93.20		4	P			73.20									
SOFT gray SILTY CLAY			1													
			2	0.4	27.0											
	90.70		3	B			70.70									
MEDIUM black SILTY CLAY			1													
			2	0.8	31.0											
	88.20		4	B			68.20									
STIFF black SILTY CLAY			2													
			4	1.5	31.0											
	85.70		4	B			65.20									
STIFF gray SILTY CLAY			1													
			3	1.1	26.0											
	83.20		6	B			63.20									
MEDIUM gray SILTY CLAY			1													
			2	0.6	28.0											
	80.70		2	B												

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 7/10/06

ROUTE IL 78 DESCRIPTION P92-011-07 Box culvert on IL 78, .1 m. S. of Meyer Road LOGGED BY P. Drezen

SECTION _____ LOCATION Rush Twp. - 13 NE, SEC. , TWP. 28N, RNG. 4E

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

STRUCT. NO.	Station	D E P T H	B L O W S	U C S	M O I S T U R E	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	(ft)	(/6")	(tsf)	(%)
043-1039							92.00		85.3							
B-1b	25' N Culv. Ctr.															
	14.00ft W CL															
	99.30															
MEDIUM brown LOAM				1.0	21.0											
				P			77.80									
MEDIUM brown SILTY LOAM	96.80		2													
			1	0.5	28.0											
	95.30		3	P			75.30									
VERY SOFT brown SILTY CLAY			1													
			1	0.3	29.0											
	92.80		4	P			72.80									
MEDIUM brown SILTY LOAM			1													
			3	0.9	24.0											
	90.30		3	B			70.30									
MEDIUM black SILTY CLAY with 27% ORGANICS			1													
			2	0.7	94.0											
	87.80		3	B			67.30									
STIFF gray/brown SILTY CLAY			1													
			3	1.5	27.0											
	85.30		4	B			65.30									
STIFF brown SILTY CLAY			2													
			3	1.2	27.0											
	82.80		4	B												
MEDIUM brown SILTY CLAY			1													
			3	0.8	28.0											
	80.30		3	B												

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 =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at\pwork\PWIDOT\GOFFJL\dms37299\d81107\logs.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	650	104T-2	JO DAVIESS	53	30
		CHECKED -	REVISED -		CONTRACT NO. 64C79								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

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.

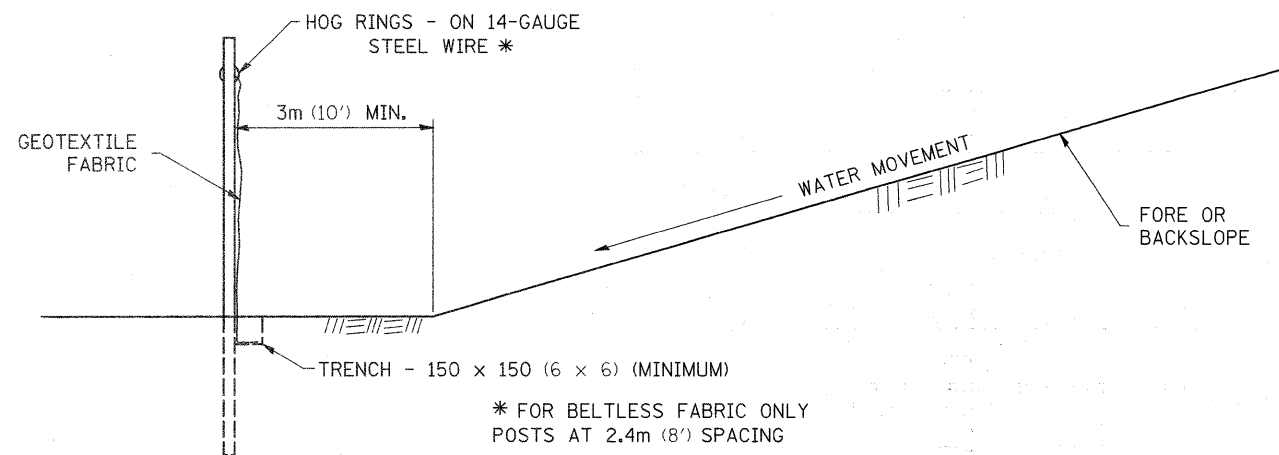
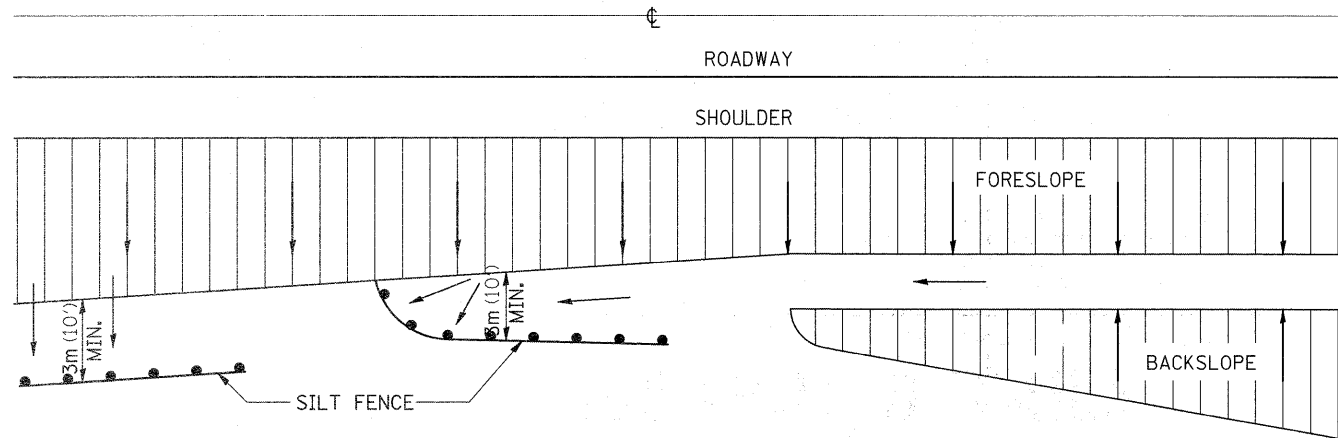
REVISED - 1-22-07

STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		650	104T-2	JO DAVIESS	53	32
REVISED -		CONTRACT NO. 64C79				
REVISED -		SCALE: 50.0000' / 1" SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

EROSION CONTROL DETAILS FOR SILT FENCE

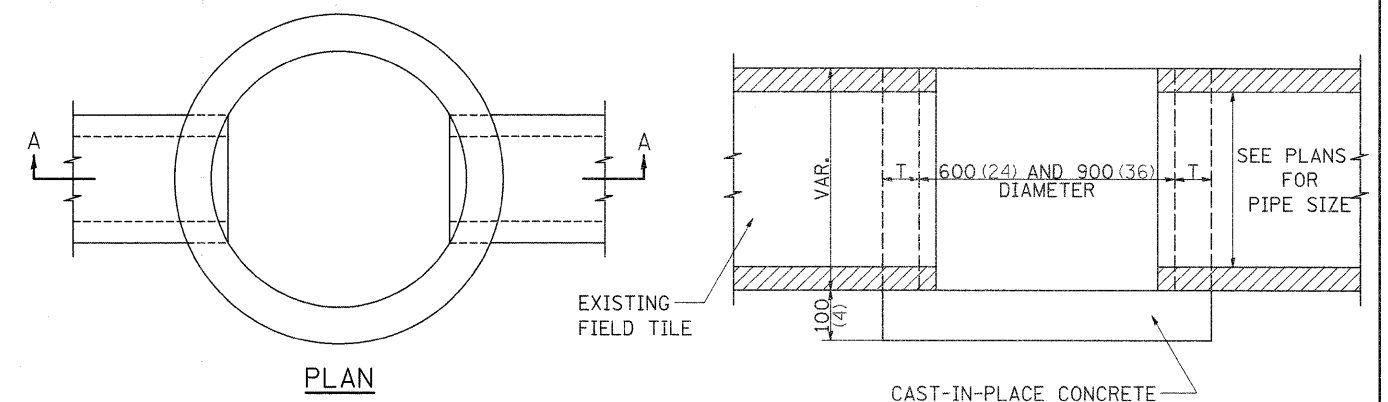
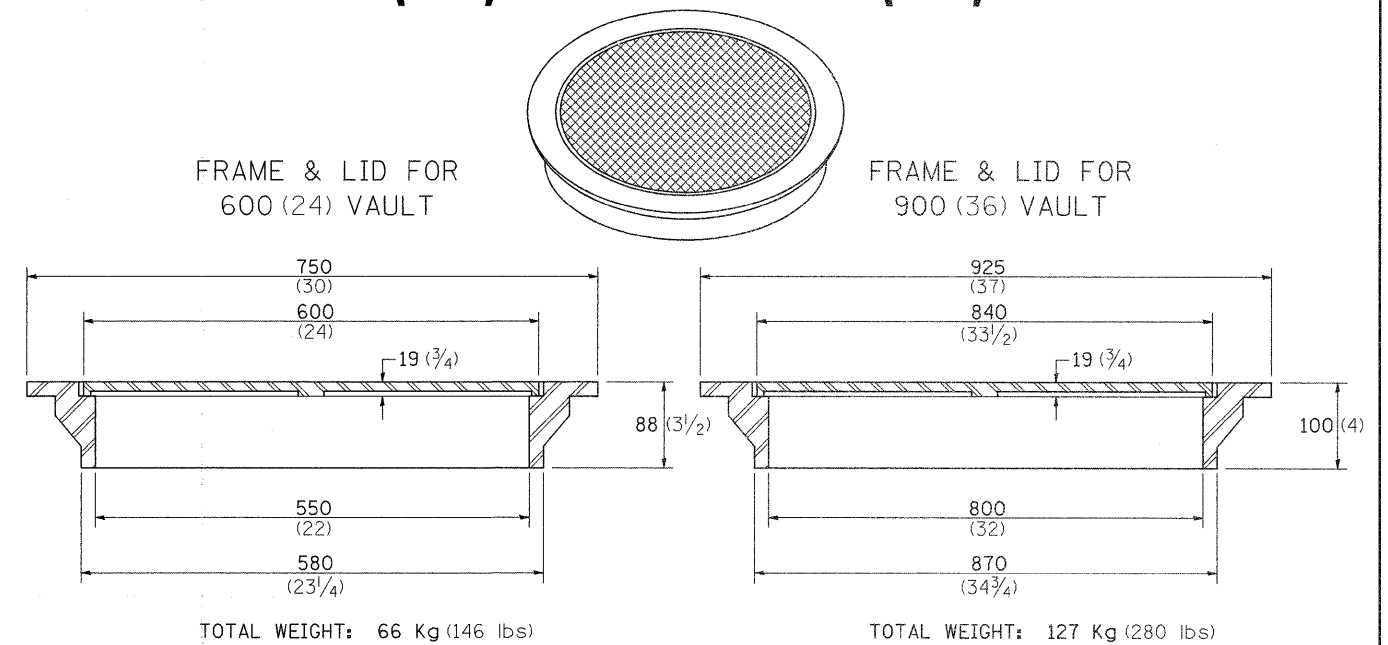


DETAILS OF SILT FENCE

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

REVISED - 10-22-01

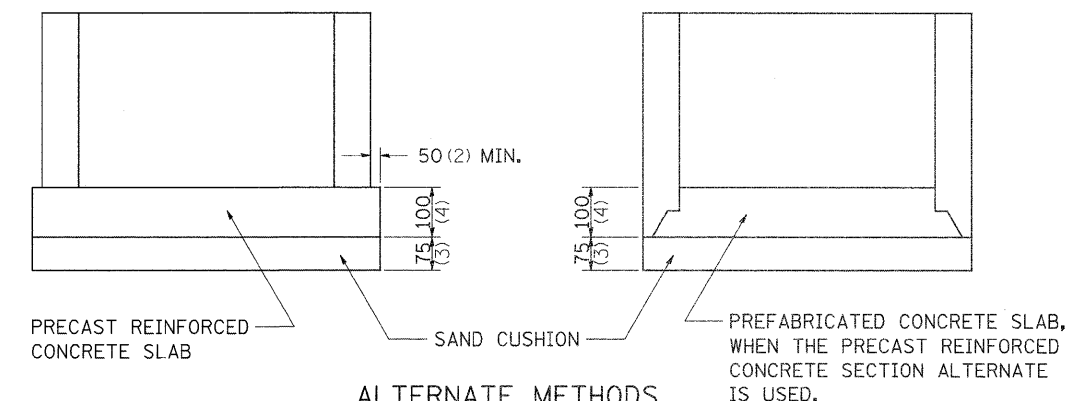
FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



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)

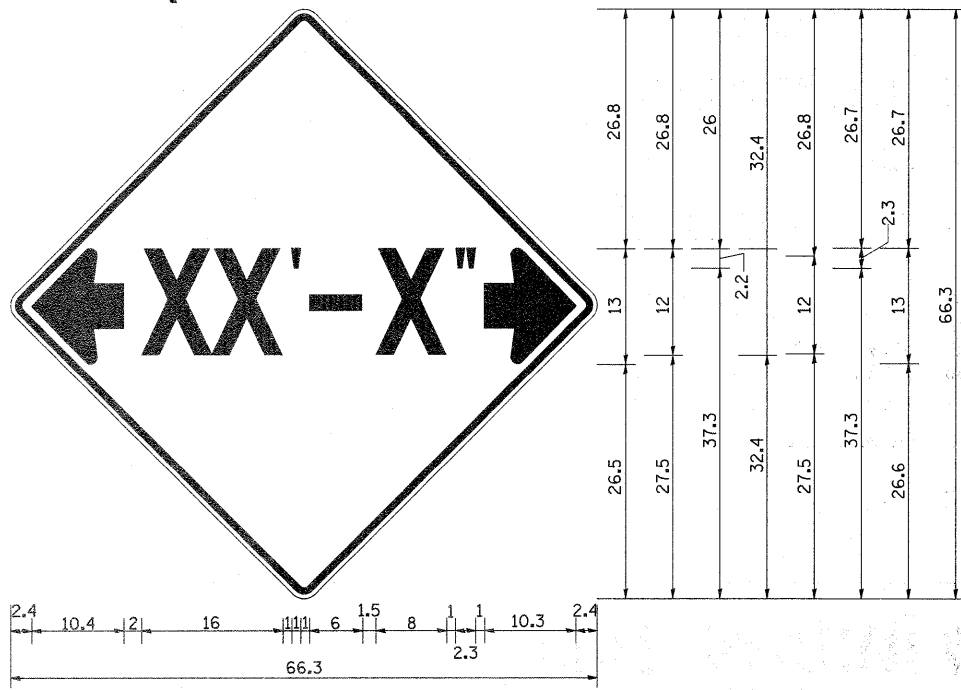
NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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

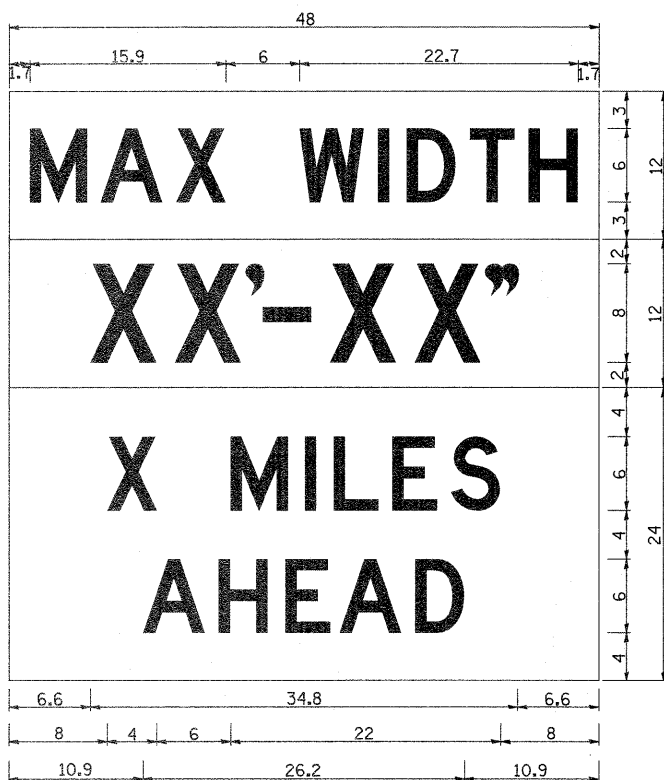


REVISED - 5-03-94	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED -			650	104T-2	JO DAVIESS	53	33	
REVISED -			CONTRACT NO. 64C79		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
REVISED -			SCALE: 50.0000 / IN	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



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



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

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

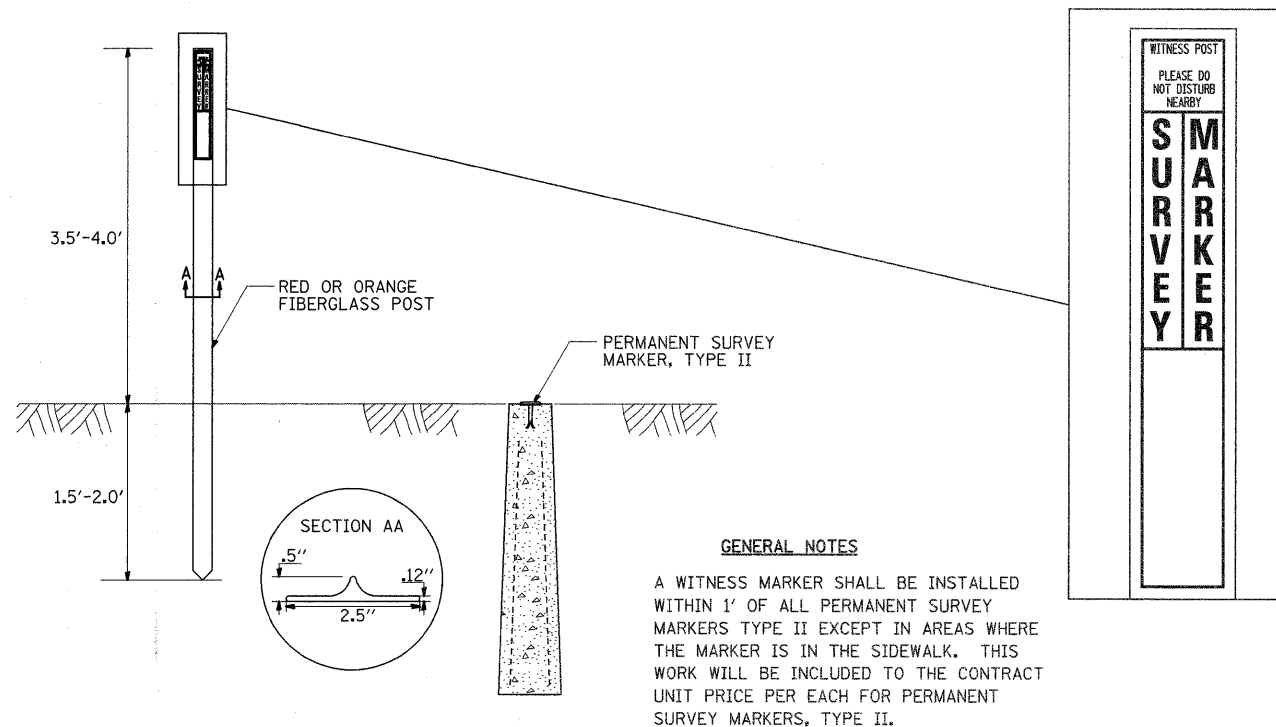
No border, Black on White;
 [X MILES] D; [AHEAD] D;

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

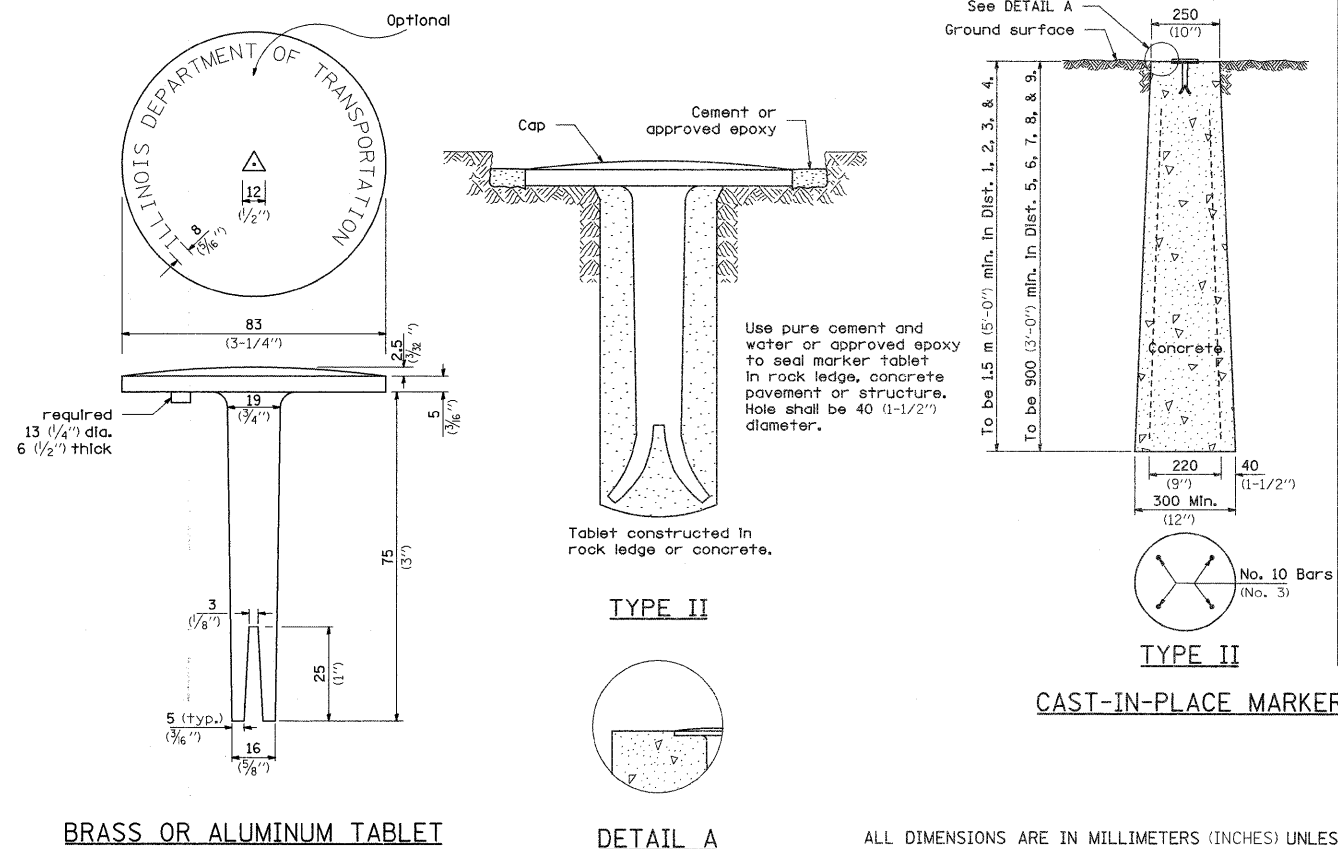
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 5-15-09

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



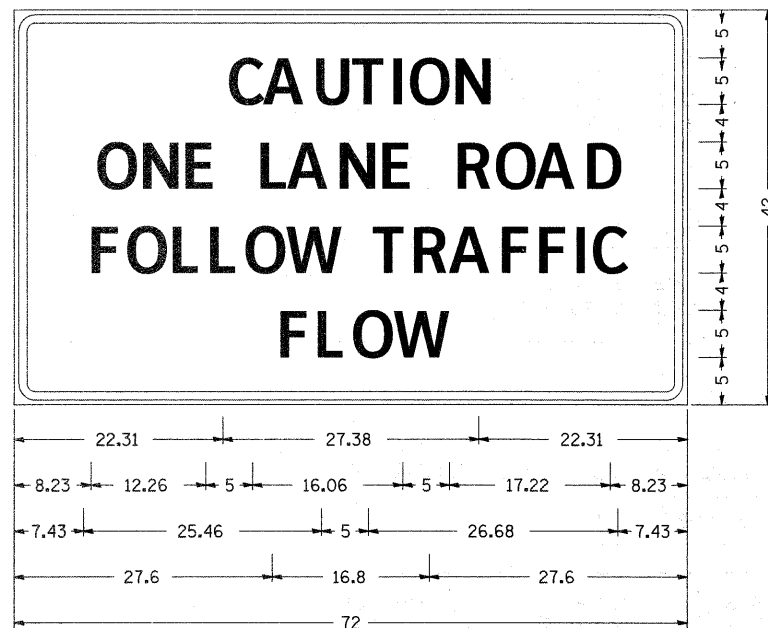
PERMANENT SURVEY MARKERS, TYPE II



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

REVISED - 10-21-08	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		650	104T-2	JO DAVIESS	53	34
REVISED -						CONTRACT NO. 64C79
REVISED -	SCALE: 50:0000 / IN SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



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

Table Of Widths And Spaces

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

GENERAL NOTES

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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

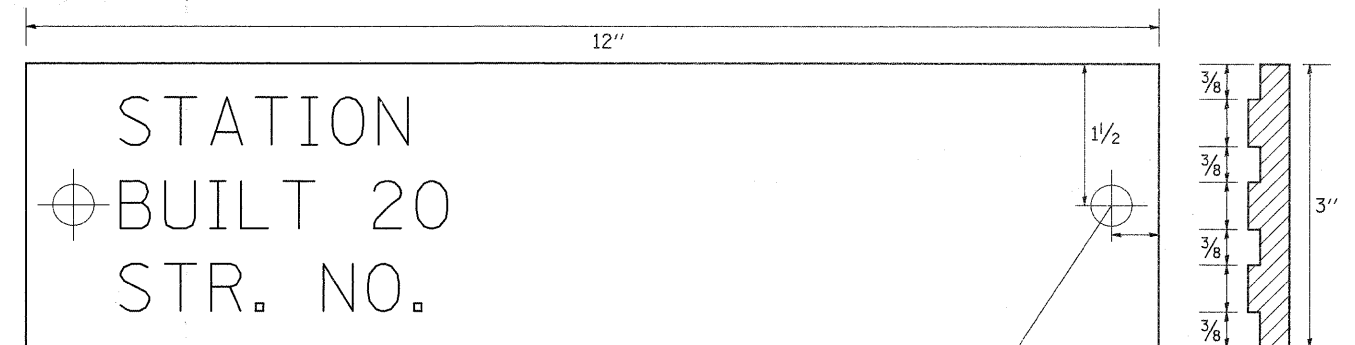
THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

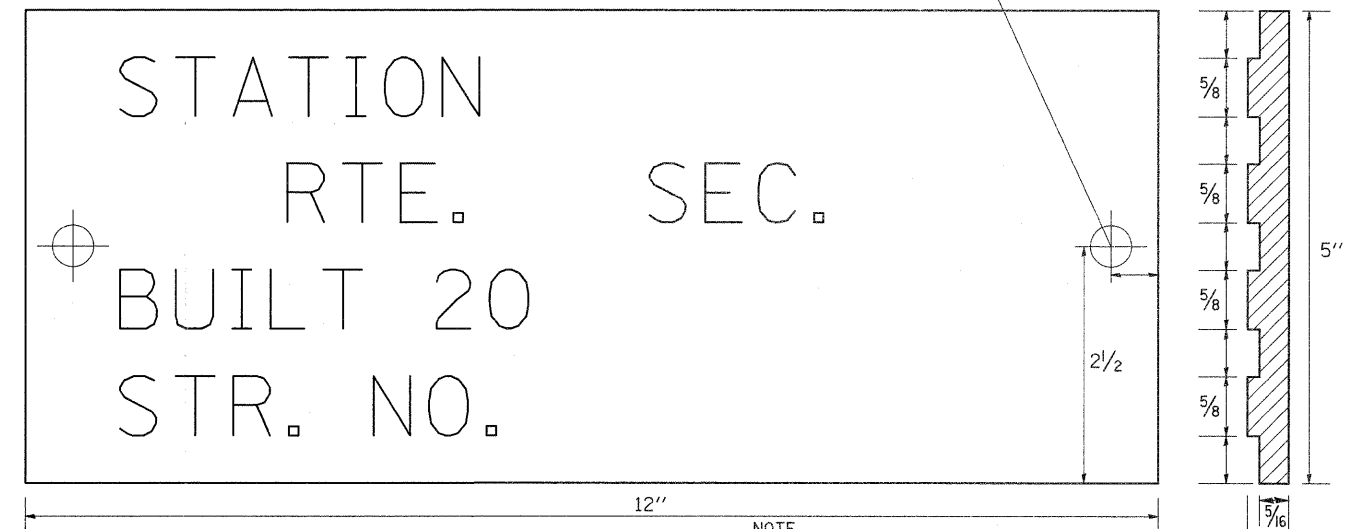
REVISED - 10-28-05

NAME PLATE FOR CULVERTS

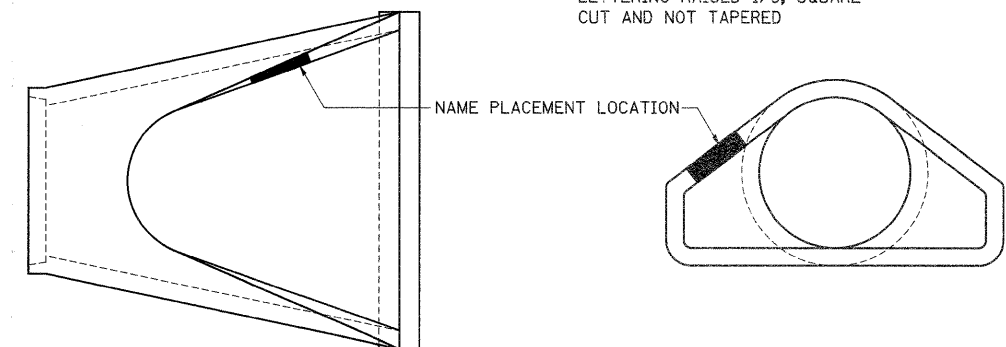
FOR 24"-42" PIPE CULVERTS



FOR 48"-84" PIPE CULVERTS



NOTE
 LETTERING RAISED 1/8, SQUARE CUT AND NOT TAPERED



DESIGNERS NOTE

NAME PLATES SHALL BE FURNISHED & INSTALLED ACCORDING TO SECTION 515 OF THE STANDARD SPECIFICATIONS, EXCEPT 2 BOLTS SHALL BE USED TO FASTEN THE PLATE TO THE END SECTION.

USE STANDARD 515001 FOR BRIDGES AND MULTI-CELL CULVERTS WITH SPANS OF 20' OR MORE MEASURED ALONG THE CENTERLINE AT THE HIGHWAY.

USE THIS DETAIL FOR ALL OTHER PIPE CULVERTS & BOX CULVERTS WITH STRUCTURE NUMBERS. INCLUDE THE INFORMATION TO FILL OUT THE NAME PLATE FOR EACH CULVERT.

IN BOTH CASES INCLUDE A PAY ITEM FOR NAME PLATES.

STATION	STRUCTURE NO.
897 + 77.46	043-1060
969 + 28.62	043-1059

REVISED - 5-27-09
 REVISED -
 REVISED -
 REVISED -

REGION 2 / DISTRICT 2 STANDARD

SCALE: 50.0000' / 1" SHEET NO. 1 OF 1 SHEETS STA.

TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	104T-2	JO DAVIESS	53	35
CONTRACT NO. 64C79			ILLINOIS FED. AID PROJECT	

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

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

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

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

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

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF 2 BOX CULVERTS (S.N. 043-1039 & S.N. 043-1041) LOCATED SOUTH OF WARREN ON IL RTE 78.

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) 2.21 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 0.21 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.60 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

S.N. 043-1059 & S.N. 043-1060 RECEIVE WATER FROM EXISTING DRAINAGE DITCHES, A TRIBUTARY OF APPLE 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:

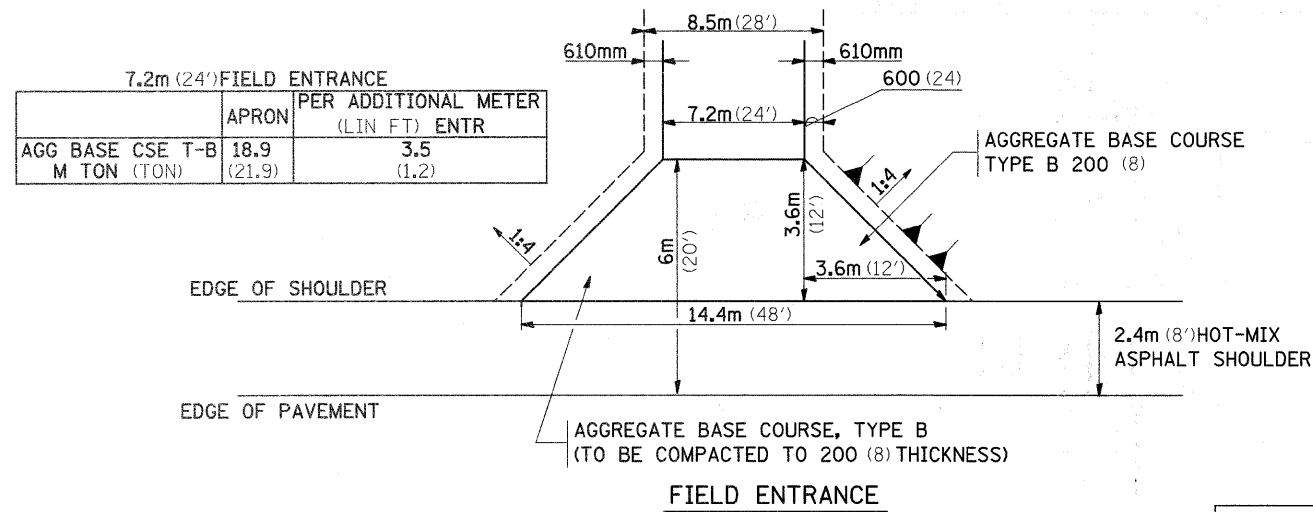
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING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

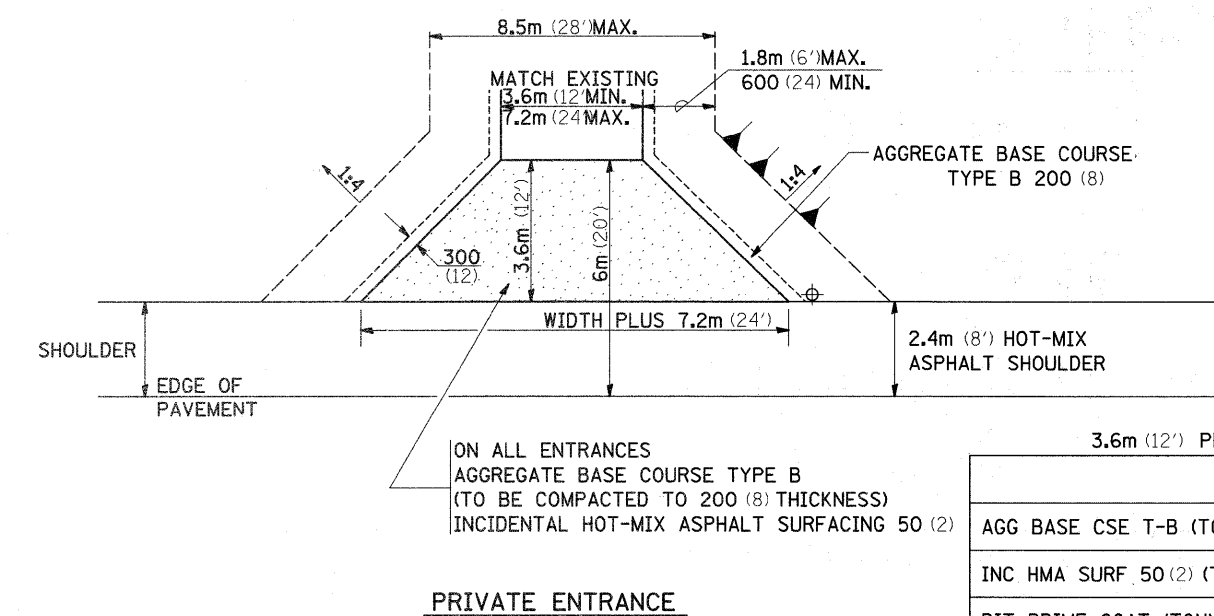
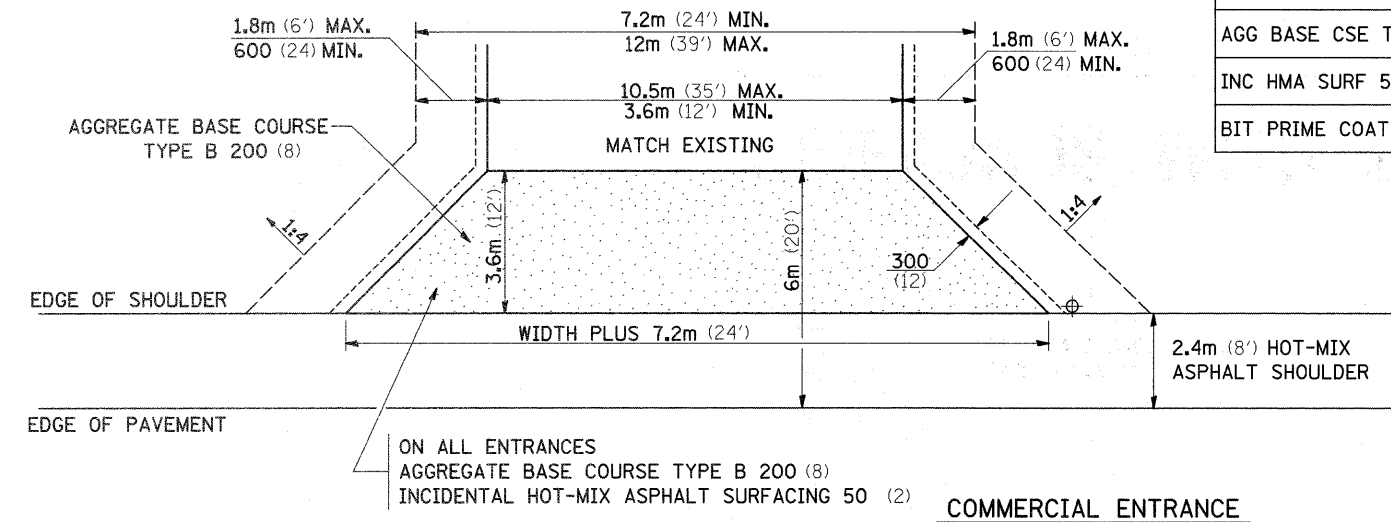
FILE NAME =	USER NAME = williamsj	DESIGNED -	REVISED - 5-12-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pwork\PWIDOT\WILLIAMSJ\des37299\21107spl.dgn		DRAWN -	REVISED -			650	104T-2	JO DAVIESS	53	36	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64C79					
PLOT DATE = Mon Sep 21 11:05:12 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

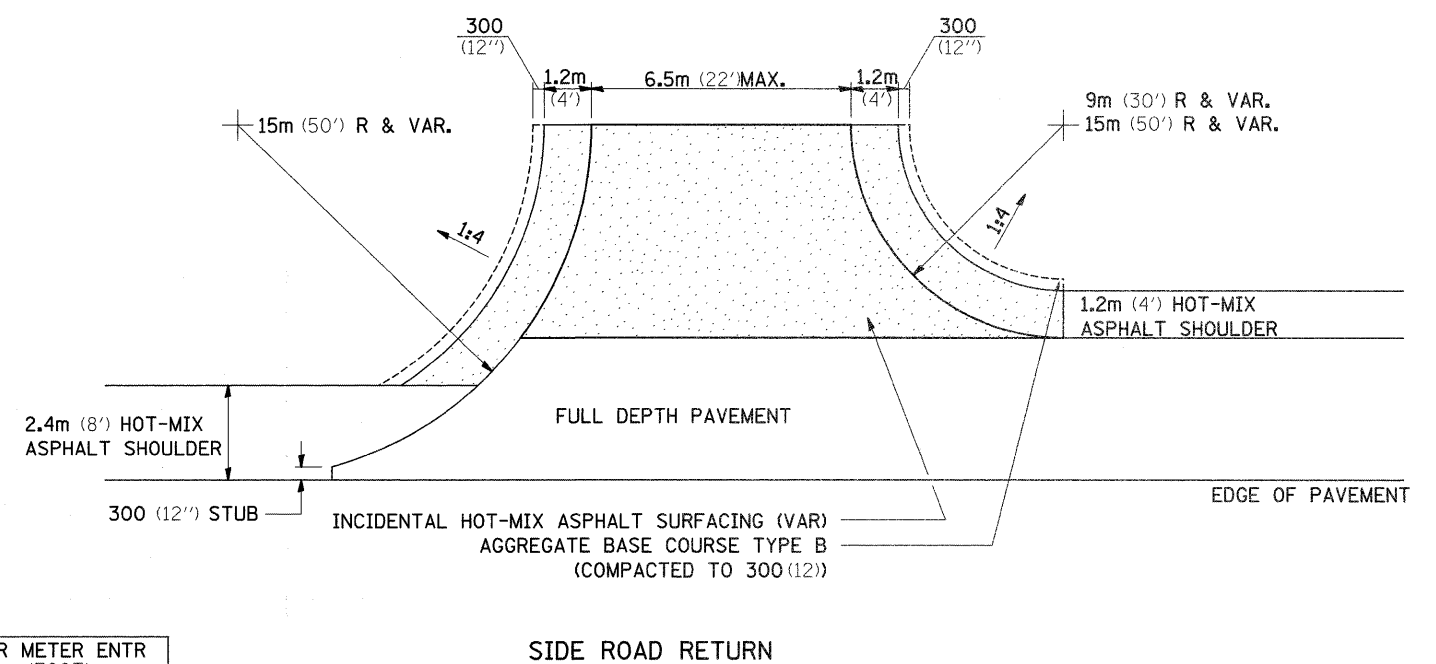


NOTE

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



3.6m (12') PRIVATE ENTRANCE		PER METER ENTR (FOOT)	
	3.6m (12')	7.2m (24')	3.6m (12')
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)



FILE NAME =	USER NAME = williamsj	DESIGNED -	REVISED - 1-15-08
at:\p\work\PWIDOT\WILLIAMSJJ\dms37299\21107spl.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Mon Sep 21 11:05:11 2009		DATE -	REVISED -

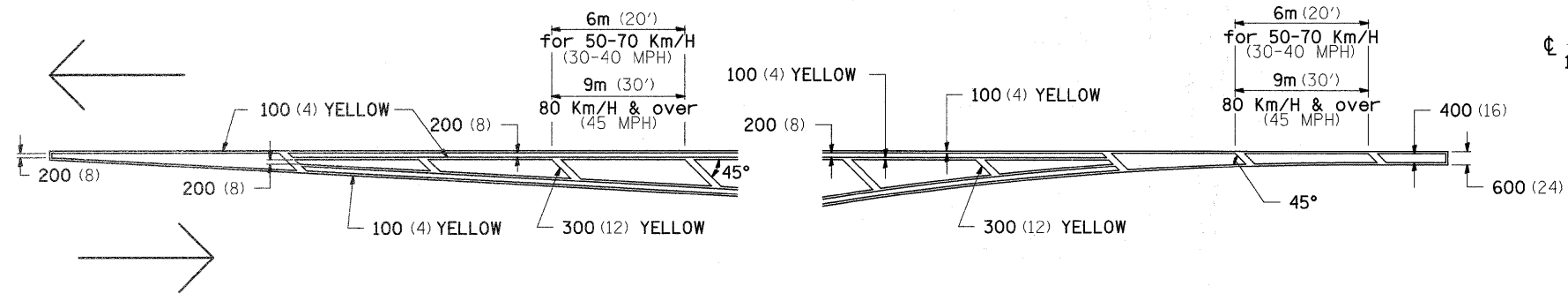
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

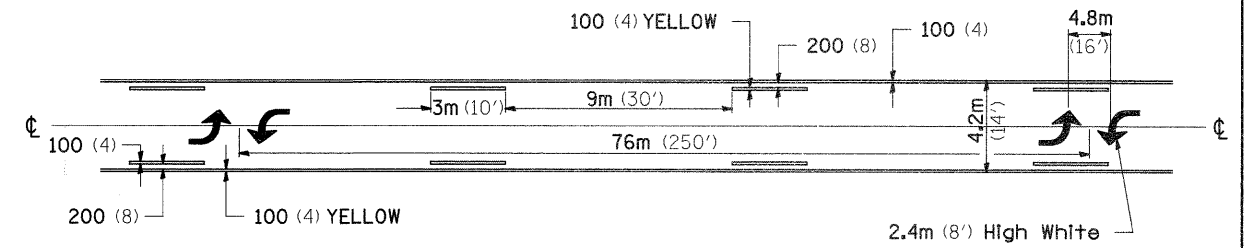
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	104T-2	JO DAVIESS	53	37
CONTRACT NO. 64C79			ILLINOIS FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

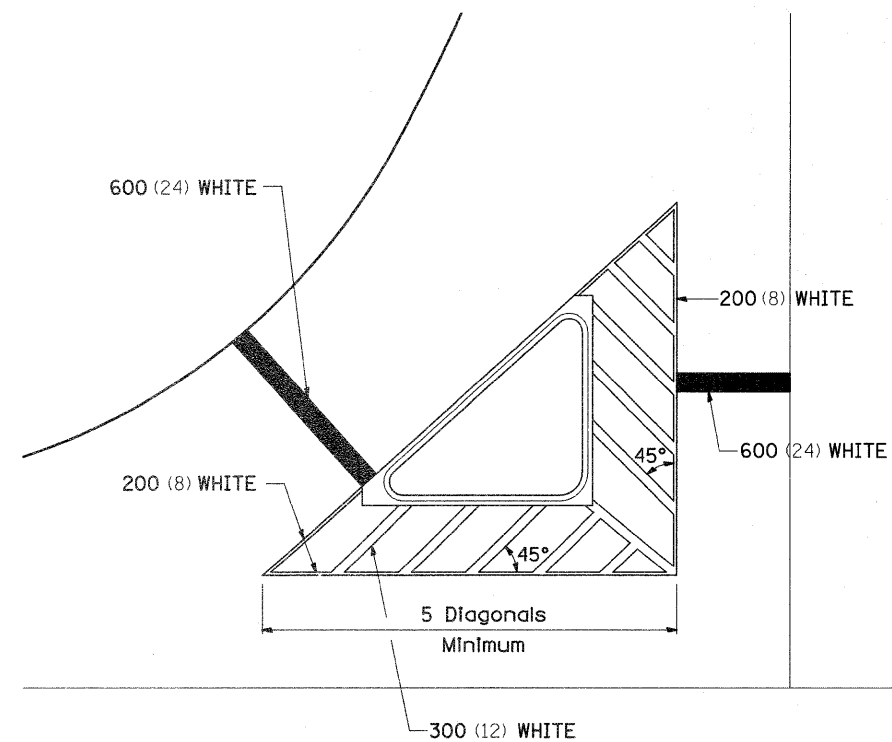


MEDIAN PAVEMENT MARKING

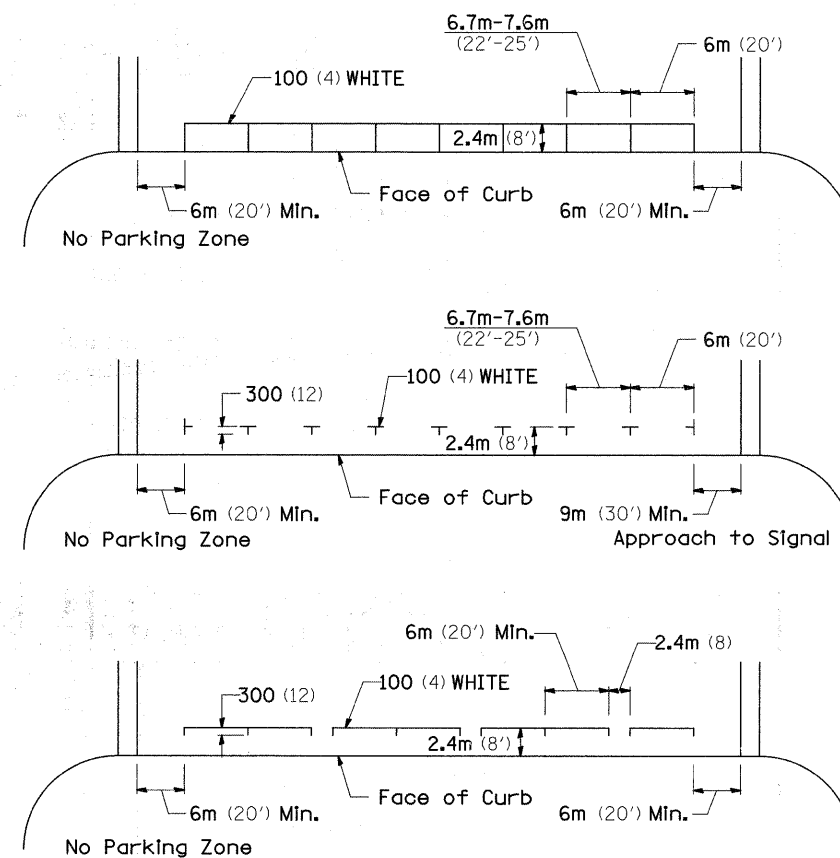


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

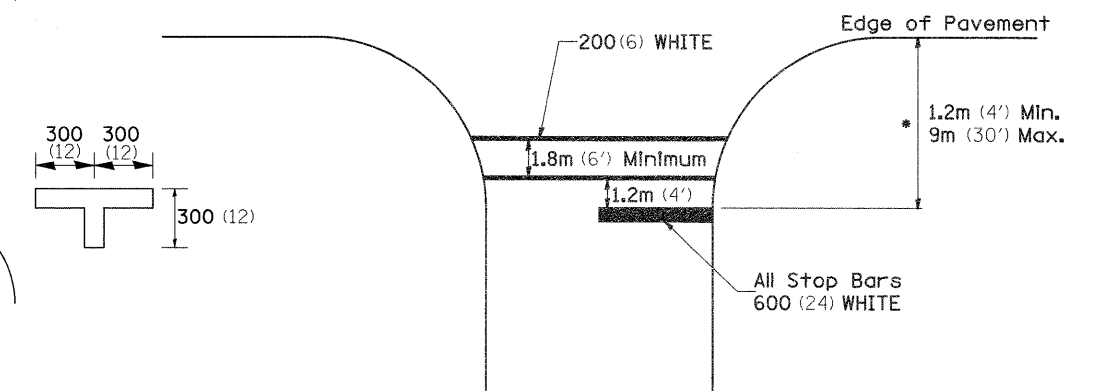


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

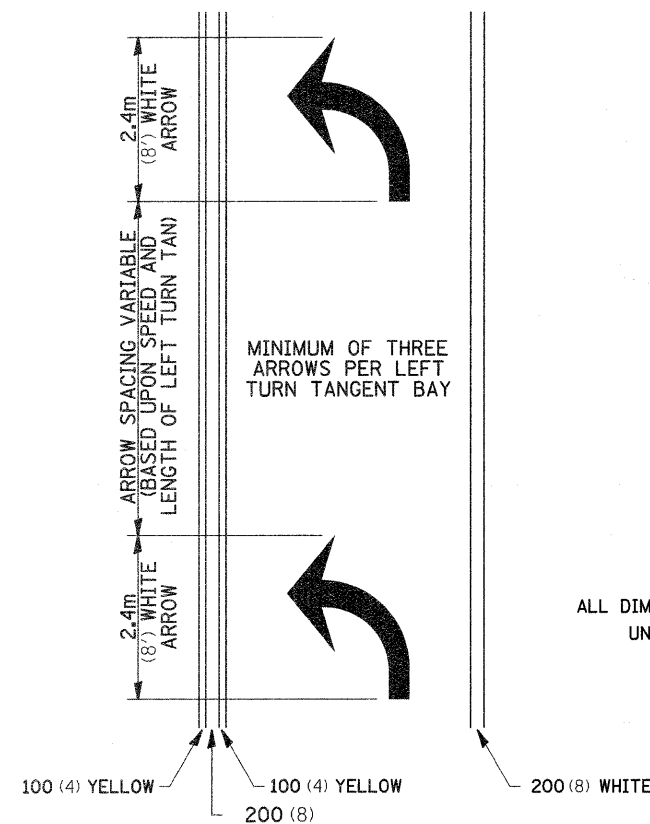


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = williamsj	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr\ps_work\FWIDOT\WILLIAMSJ\des37299\01107spl.dgn		DRAWN -	REVISED -			650	104T-2	JO DAVIESS	53	38
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64CT9				
PLOT DATE = Mon Sep 21 11:05:11 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

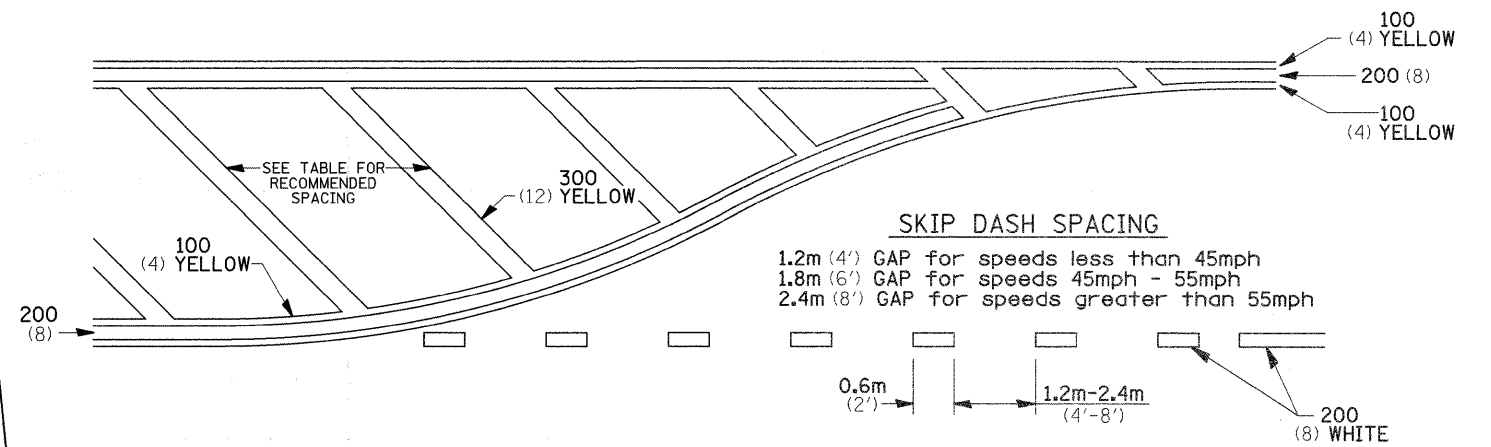


- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

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

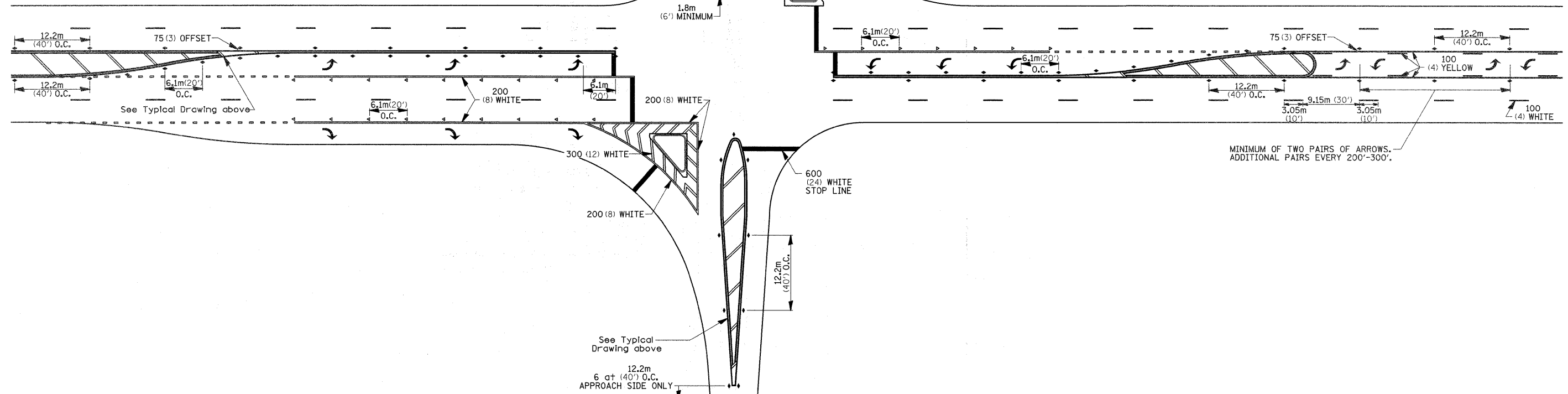
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

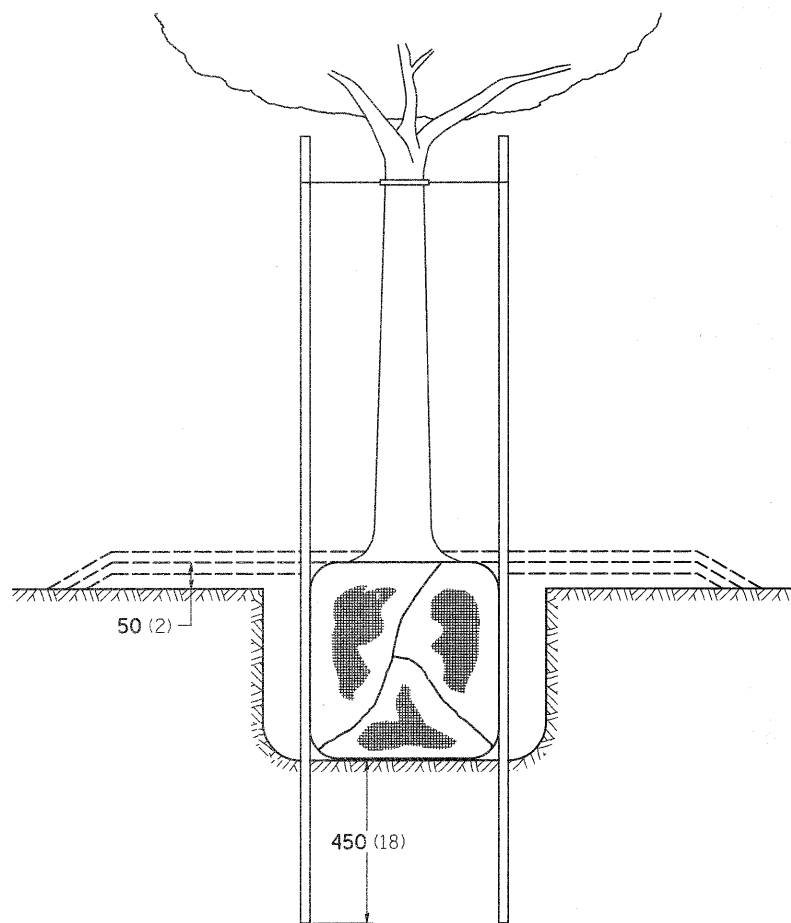
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

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.

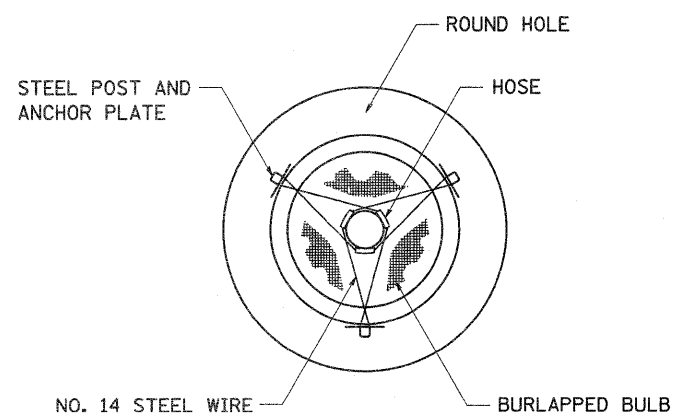


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at\pw_work\PWIDOT\WILLIAMSJJ\des37299\01107apl.dgn		DRAWN -	REVISED -			650	104T-2	JO DAVIESS	53	39	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64C79					
PLOT DATE = Mon Sep 21 11:05:11 2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

DETAILS OF PLANTING AND BRACING TREES

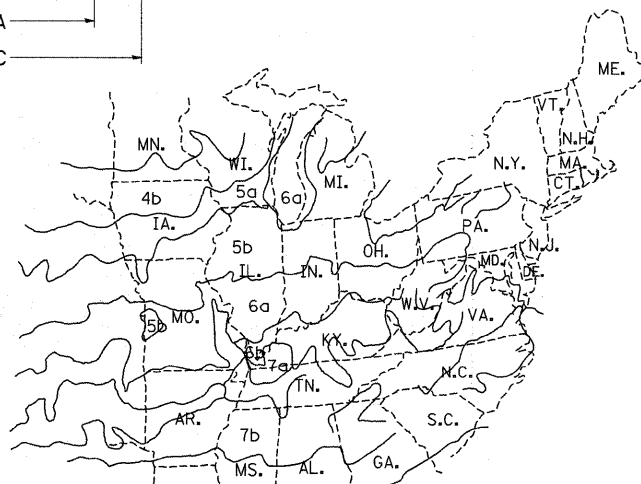
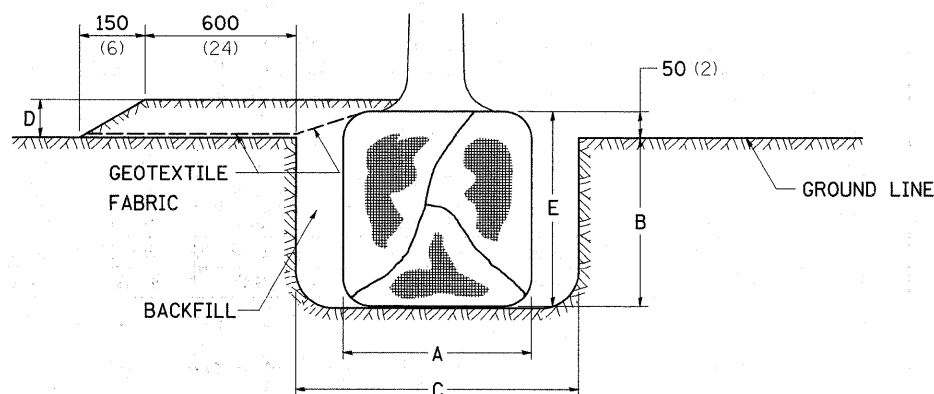


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



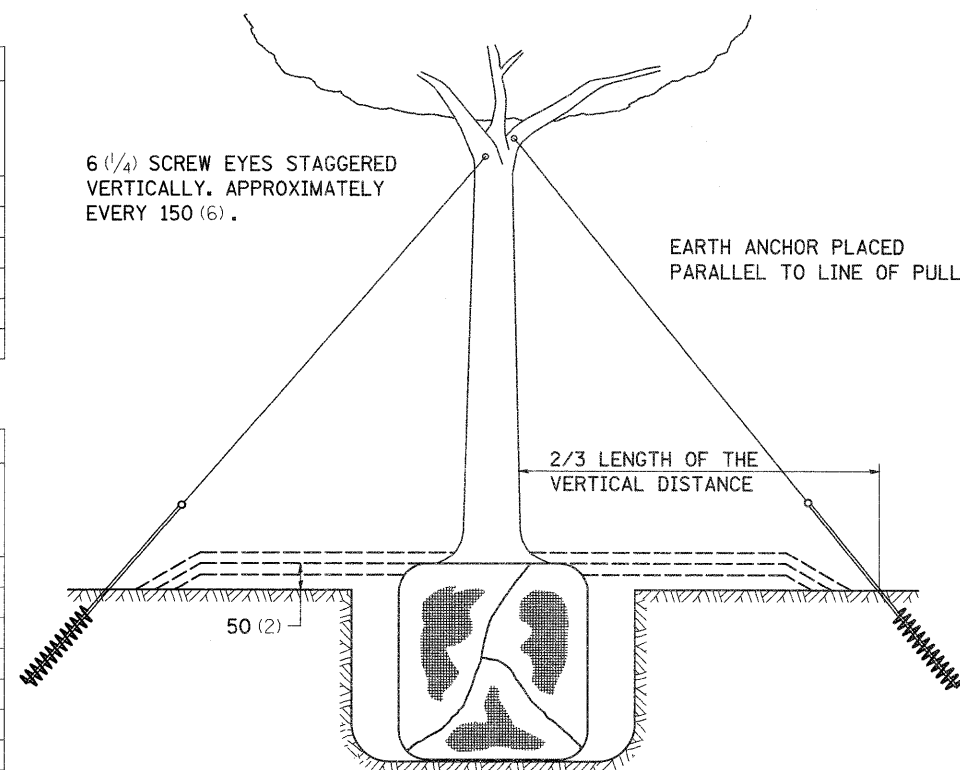
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250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

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

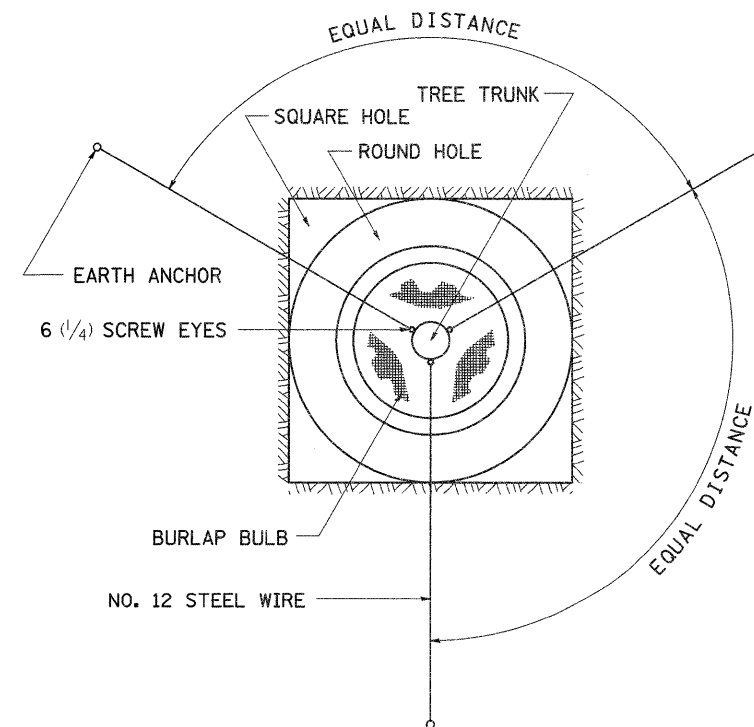


PLANT HARDINESS ZONE MAP

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



TREES OVER 115 (4 1/2) IN DIAMETER

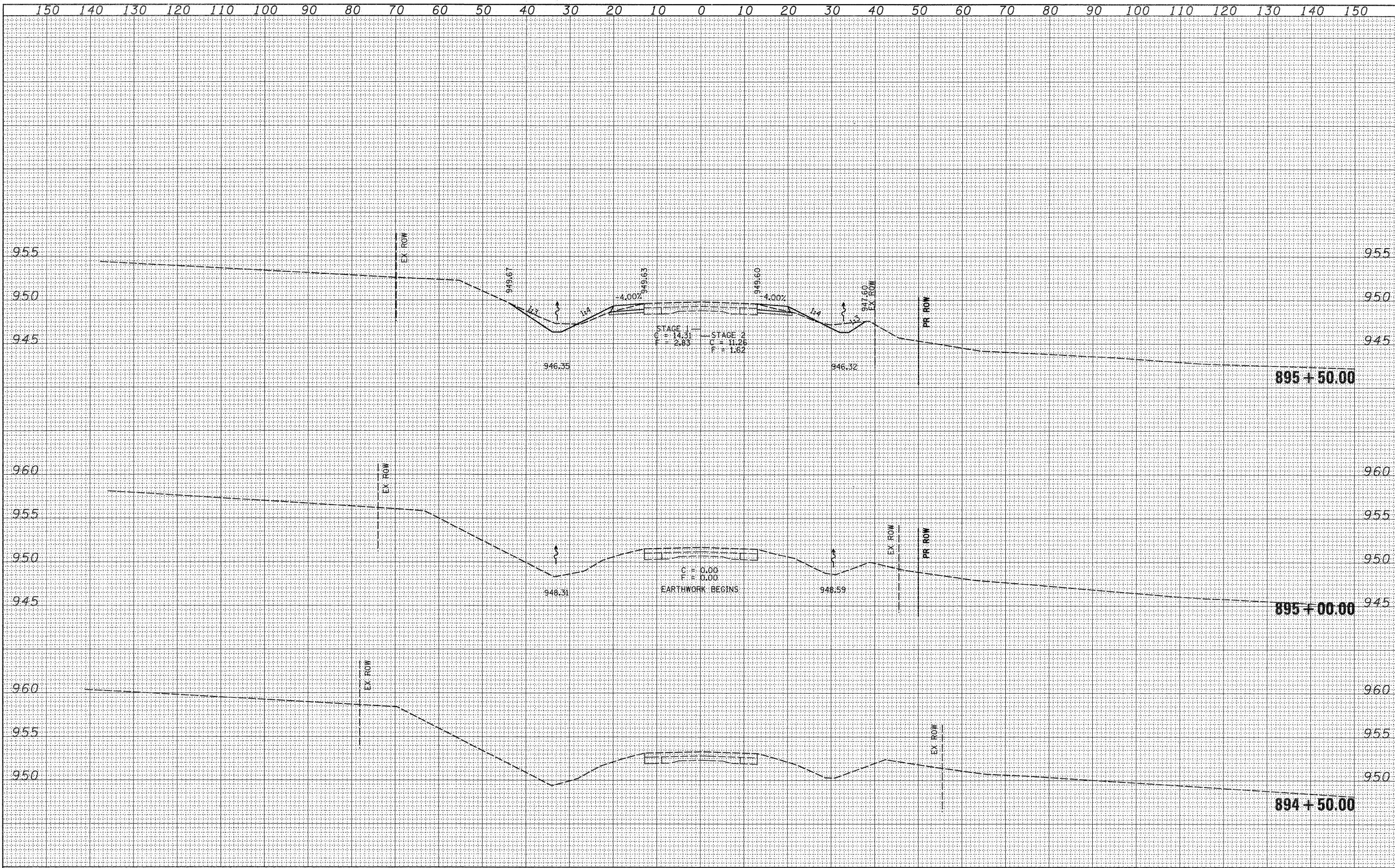


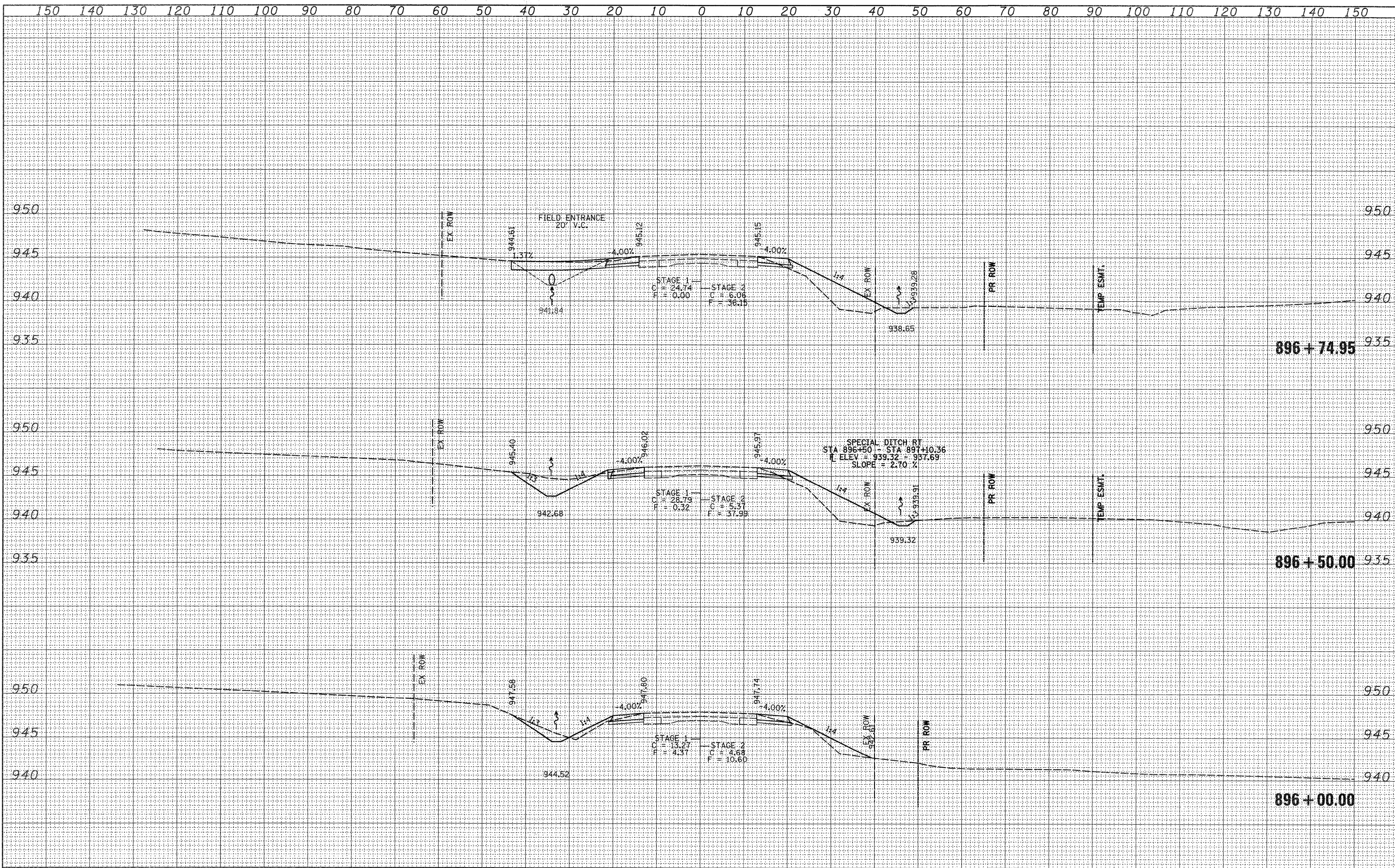
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

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		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

ORIGINAL SURVEY	DATE
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NOTE BOOK	
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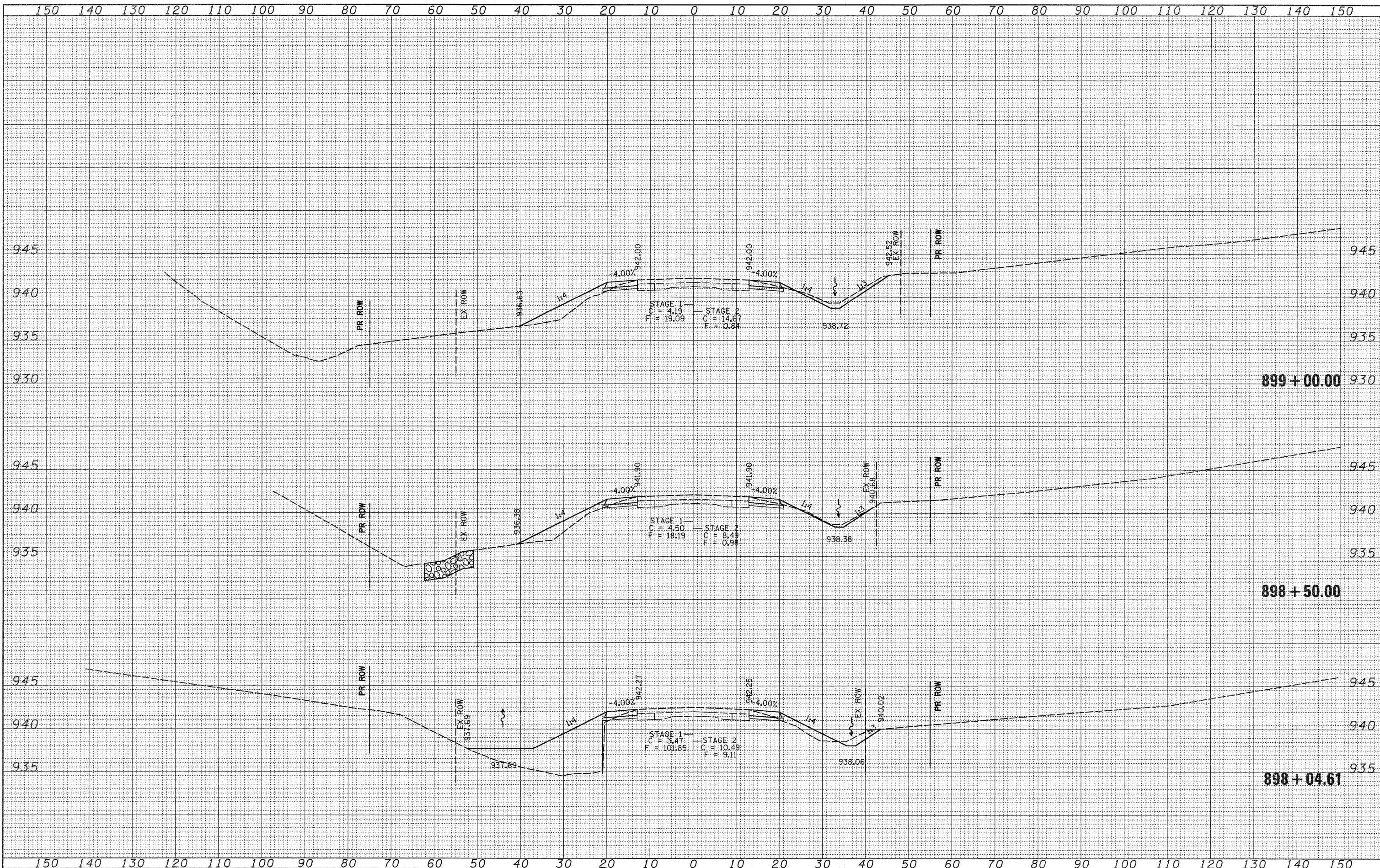


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FINAL SURVEY PLOTTED DATE AREAS CHECKED NO.

ORIGINAL SURVEY PLOTTED DATE AREAS CHECKED NO.



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

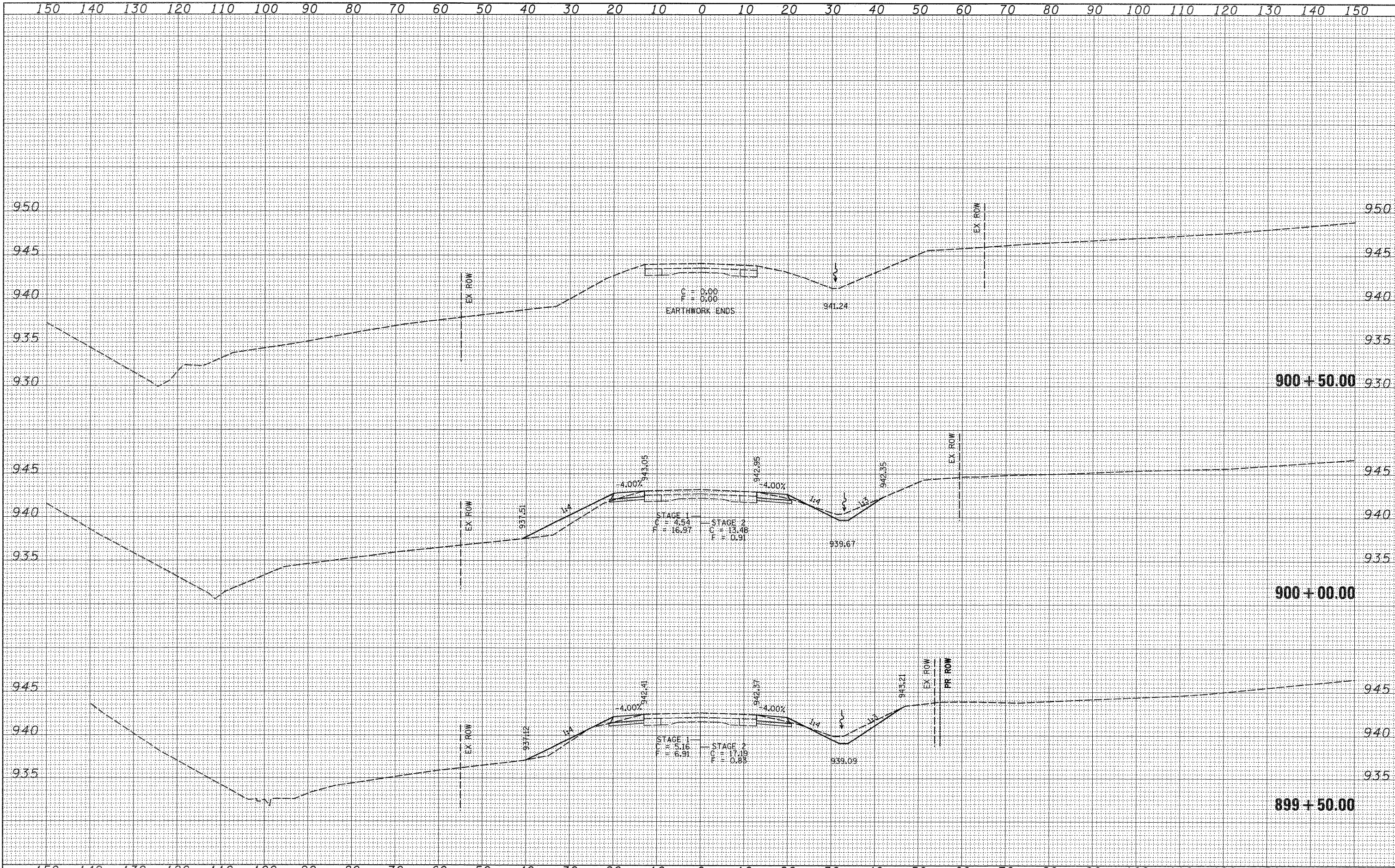
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SCALE: SHEET NO. 5 OF 12 SHEETS STA. 898+04.61 TO STA. 899+00.00

F.A.P. RTE. 650	SECTION 104T-2	COUNTY	TOTAL SHEETS 53	SHEET NO. 46
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64C79				

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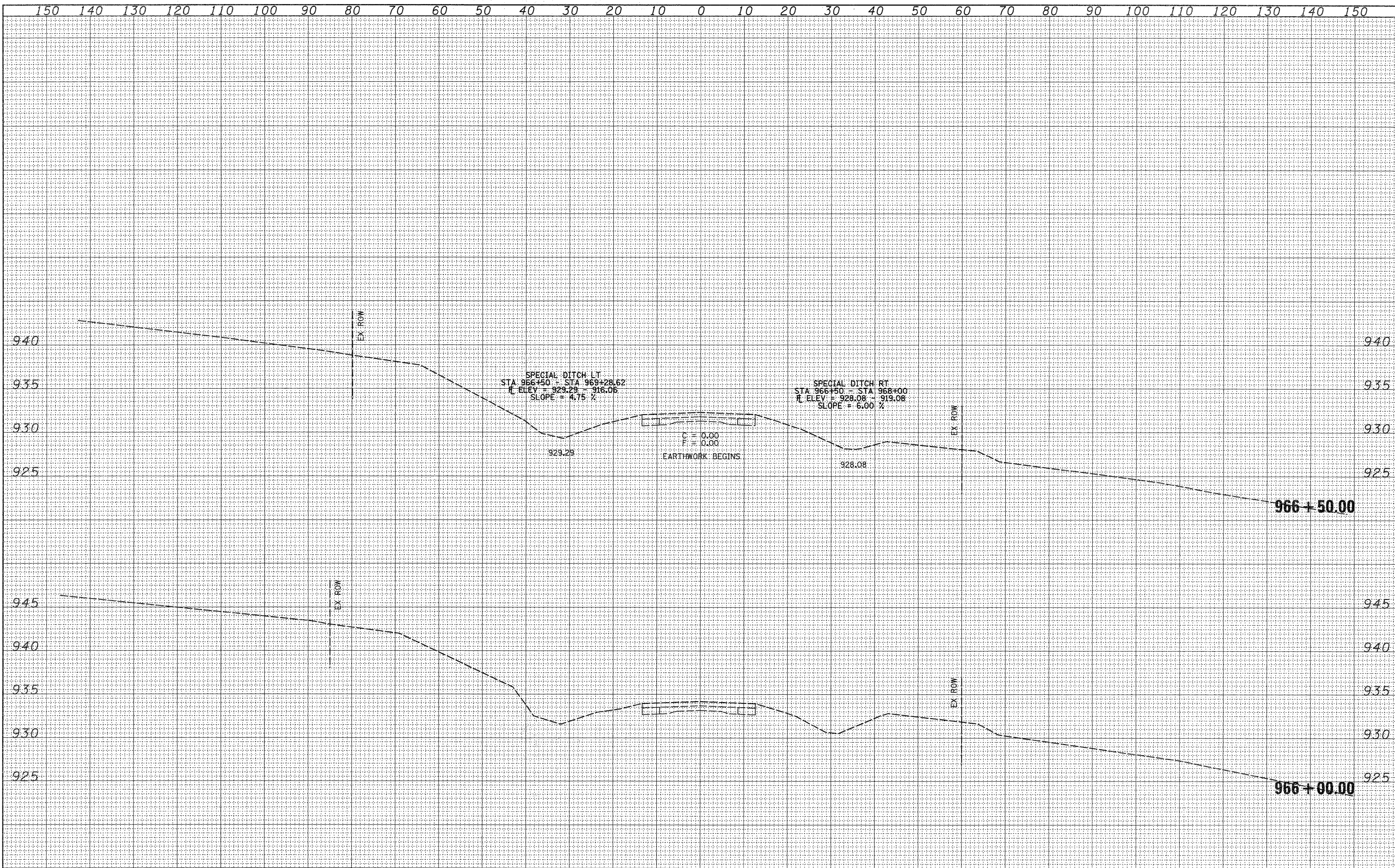
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PLOT DATE = Mon Sep 21 07:55:48 2009		DATE -	REVISED -		SCALE:	SHEET NO. 6 OF 12 SHEETS	STA. 899+50.00 TO STA. 900+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
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ORIGINAL SURVEY	DATE
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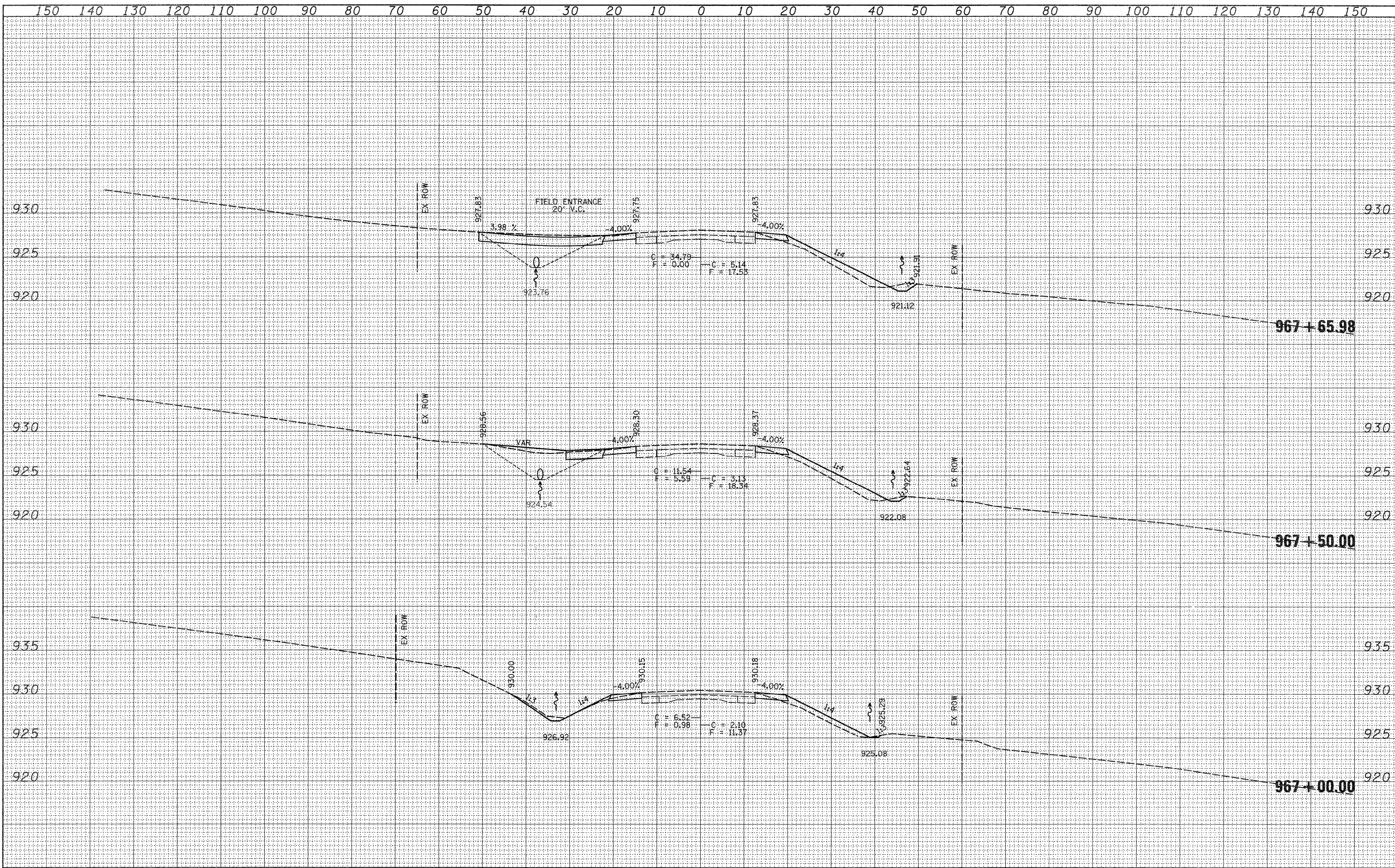


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		DATE -	REVISED -	SCALE:	SHEET NO. 7 OF 12 SHEETS	STA. 966+00.00 TO STA. 966+50.00	ILLINOIS FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BY	DATE
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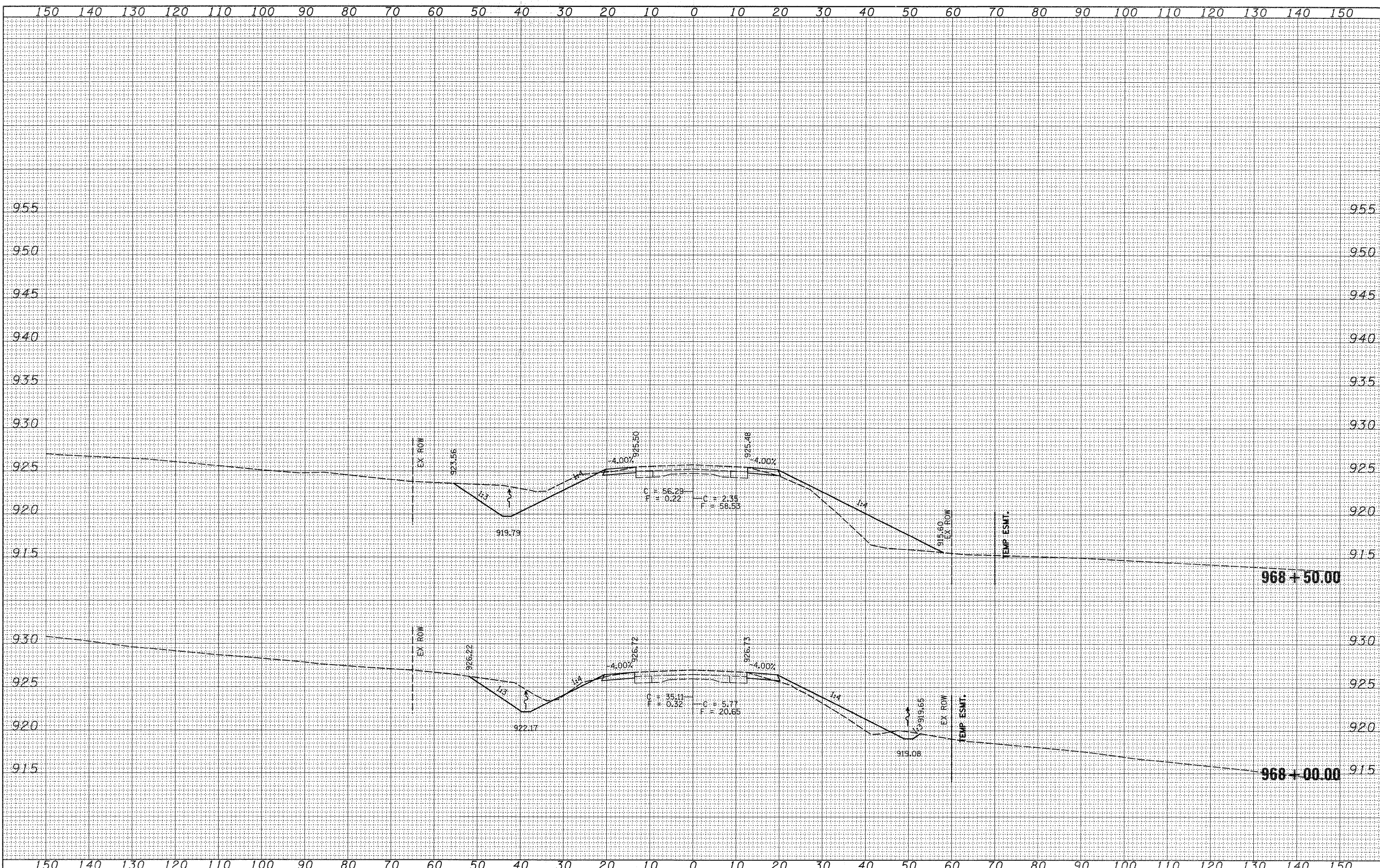
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		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

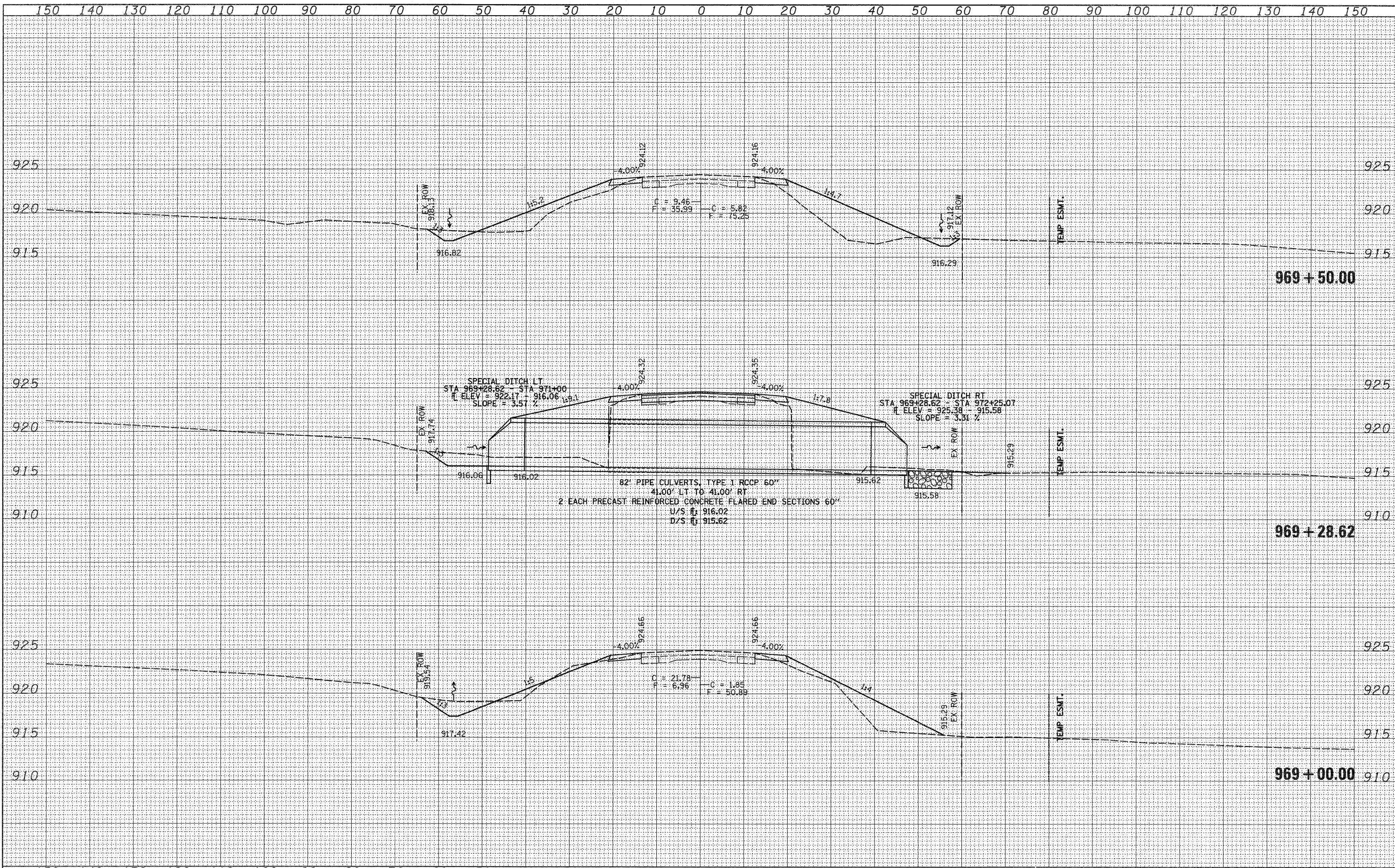
CROSS SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	104T-2	JO DAVIESS	53	50
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 64C79				

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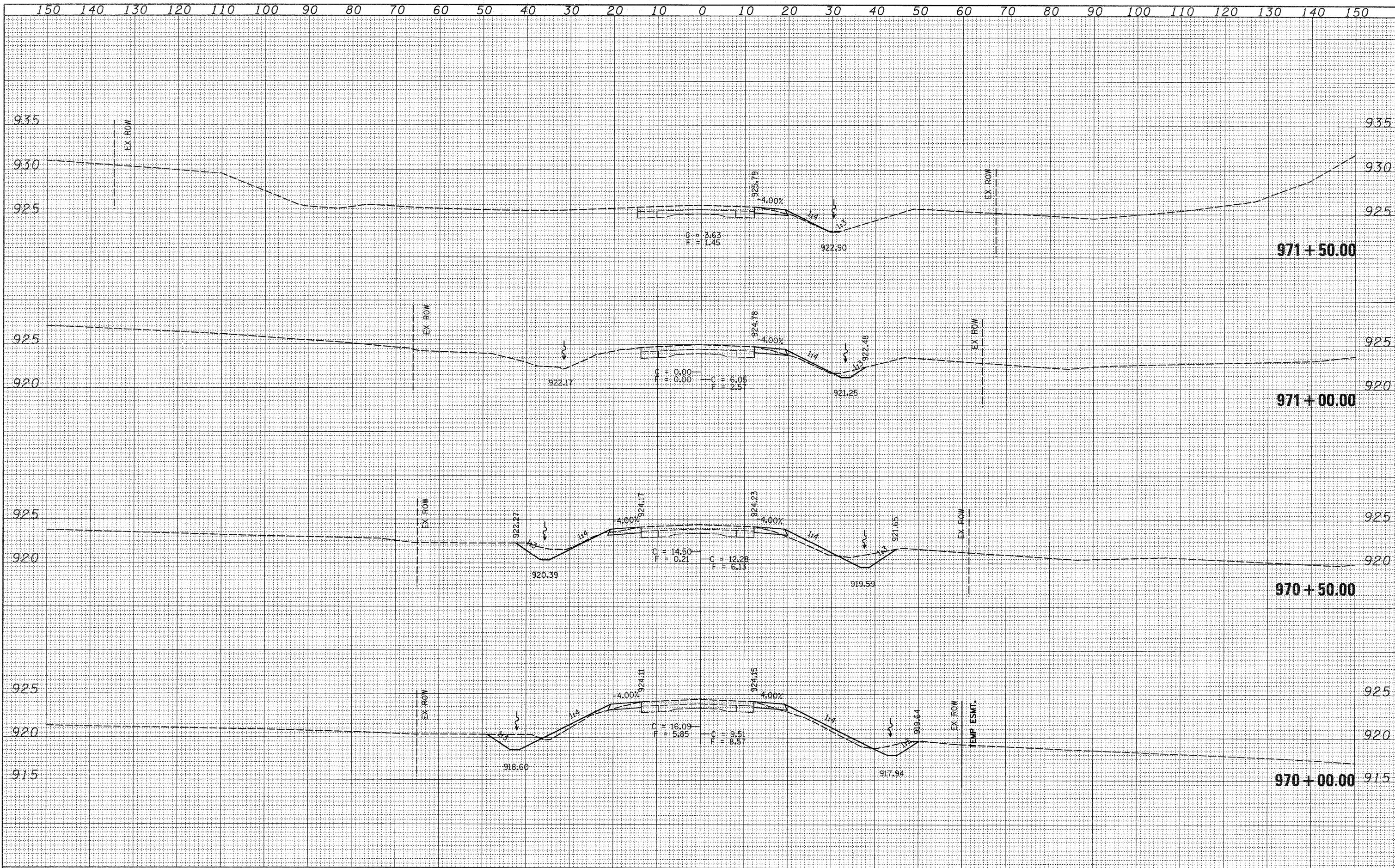
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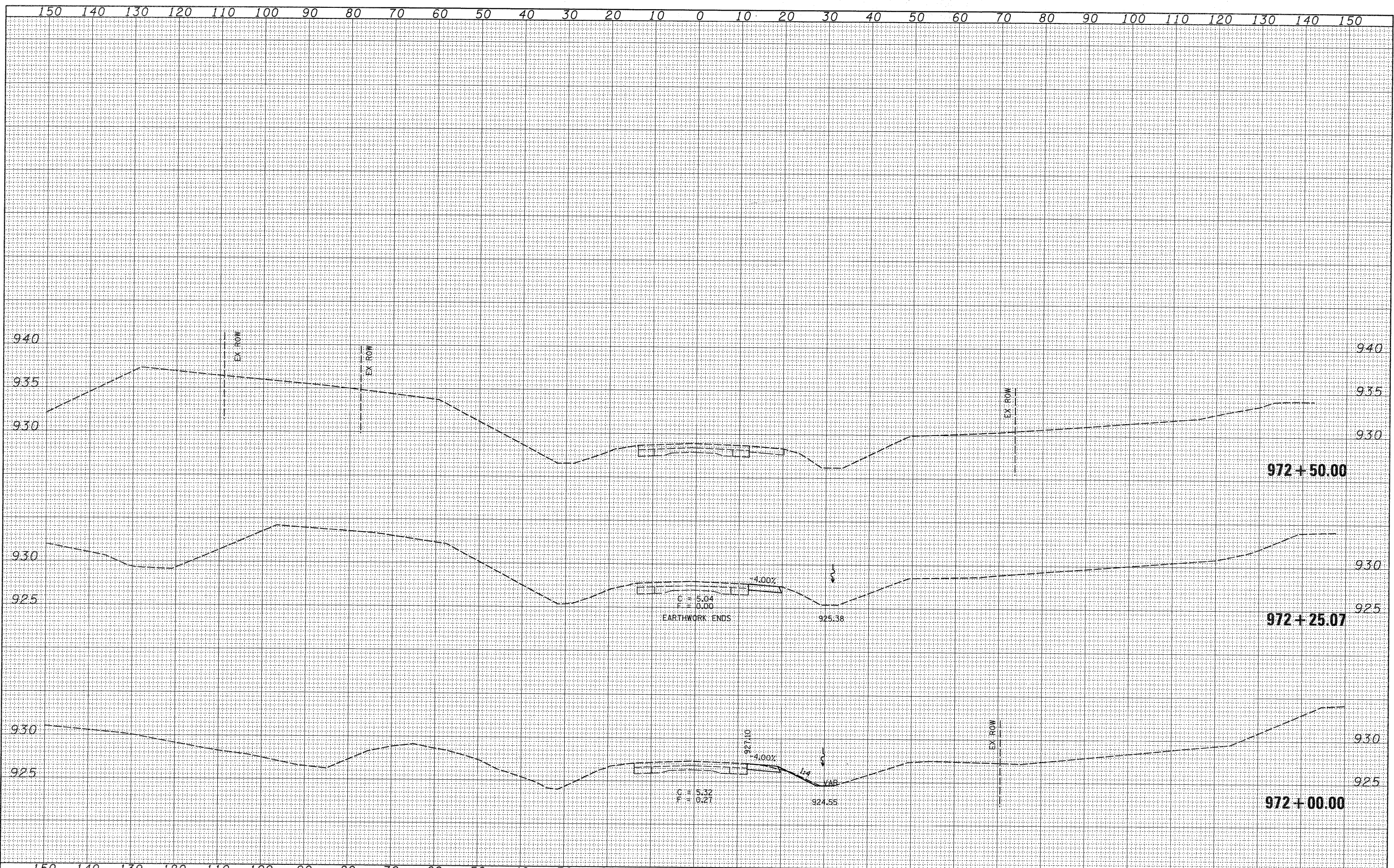
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BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: SHEET NO. 12 OF 12 SHEETS STA. 972+00.00 TO STA. 972+50.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Mon Sep 21 07:55:43 2009	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64C79					
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