

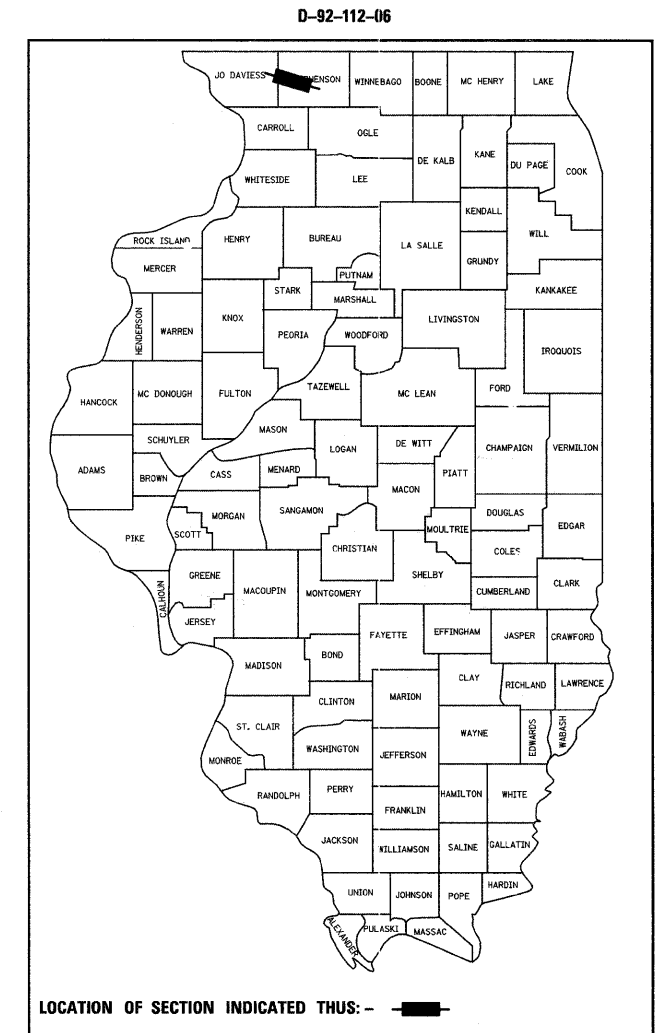
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

**PROPOSED**  
**HIGHWAY PLANS**

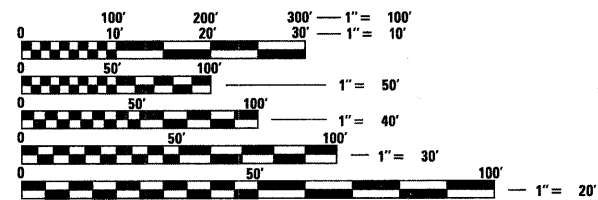
FAP ROUTE 301 (US 20)  
 SECTION 21T-2  
 PROJECT NHF-0301(054)  
 STEPHENSON COUNTY  
 CULVERT REPLACEMENTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64C63		

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



ERIN TOWNSHIP, SECTION 14



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

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

PROJECT ENGINEER: MASOOD AHMAD  
 SQUAD ENGINEER: TRACI HELFRICH (815) 284-5932

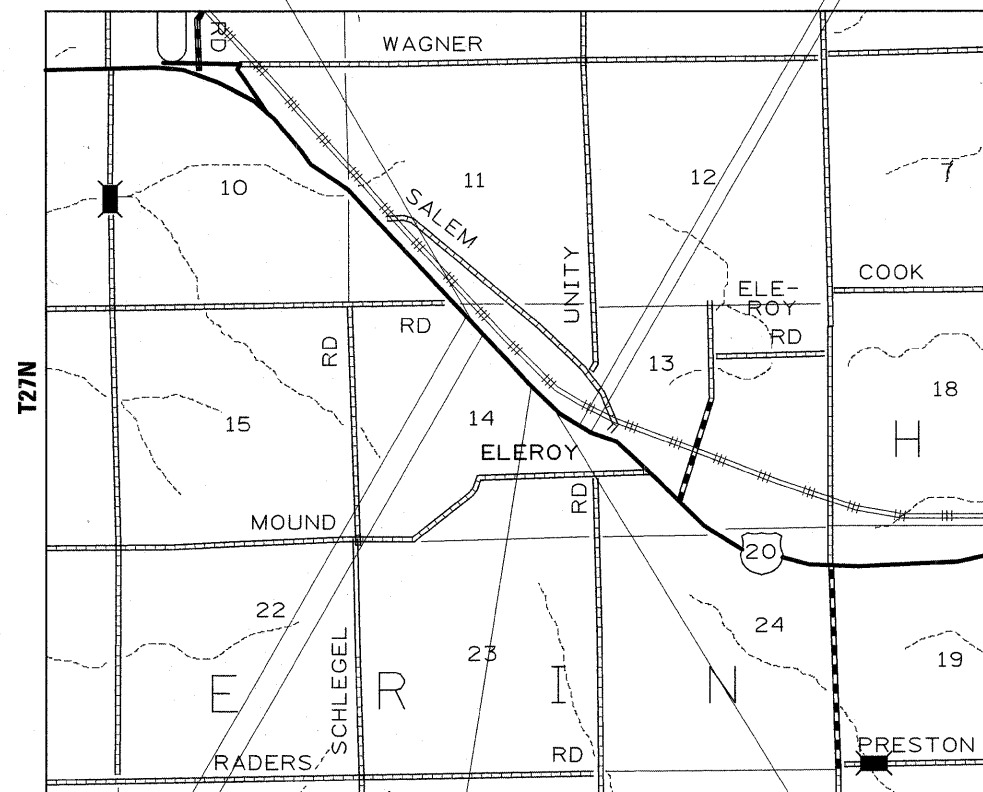
CONTRACT NO. 64C63

STEPHENSON COUNTY

STA 421 + 25.0091  
 EXISTING S.N. 089-079  
 PROPOSED S.N. 089-1122

C-92-091-07

SECTION ENDS  
 STA 446 + 00  
 IMPROVEMENT ENDS  
 STA 446 + 50



SECTION BEGINS  
 STA 418 + 50  
 IMPROVEMENT BEGINS  
 STA 418 + 00

OMISSION  
 STA 424 + 50 TO 441 + 50

STA 444 + 08  
 EXISTING S.N. 089-081  
 PROPOSED S.N. 089-1110

GROSS LENGTH = 2750 LIN. FT. = 0.521 MILE  
 NET LENGTH = 1050.00 LIN. FT. = 0.199 MILE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED Dec 4 20 08

George F. Ryan  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 30, 20 09  
Charles J. Ingersoll  
 ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 20 09  
Christine M. Reed  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

SECTION 21T-2

FAP ROUTE 301

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000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTIONS FOR PIPE CULVERTS
635001-01	DELINEATORS
666001-01	RIGHT-OF-WAY MARKERS
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM EDGE OF PAVEMENT
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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 ≥ 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720011-01	METAL POST FOR SIGNS, MARKERS, AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

FILE NAME =	USER NAME = dssdd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS STATE STANDARDS</b>	F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\PWIDOT\DOSSDD\dms34382\st1120	pcvr.dgn	DRAWN -	REVISED -			301	21I-2	STEPHENSON	56	2
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -				CONTRACT NO. 64C63				
PLOT DATE = Thu Dec 04 13:26:35 2008	DATE -	REVISED -				SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _ [ILLINOIS] FED. AID PROJECT	

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% Fed 20% State MINOR STRUCTURE Y007
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	220
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	28
20101000	TEMPORARY FENCE	FOOT	1225
20200100	EARTH EXCAVATION	CU YD	3658
20200200	ROCK EXCAVATION	CU YD	100
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
* 25000210	SEEDING, CLASS 2A	ACRE	1.25
* 25000310	SEEDING, CLASS 4	ACRE	1.25
* 25000322	SEEDING, CLASS 5A	ACRE	1.25
: 25000750	MOWING	ACRE	2.5
* 25100115	MULCH, METHOD 2	ACRE	2.5
* 25100630	EROSION CONTROL BLANKET	SQ YD	2759
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	916
28000300	TEMPORARY DITCH CHECKS	EACH	103
28000400	PERIMETER EROSION BARRIER	FOOT	200
28000500	INLET AND PIPE PROTECTION	EACH	3
28100107	STONE RIPRAP, CLASS A4	SQ YD	195
28200200	FILTER FABRIC	SQ YD	195
35101400	AGGREGATE BASE COURSE, TYPE B	TON	323
40600990	TEMPORARY RAMP	SQ YD	59
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	200
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	31

\* SPECIALTY ITEMS  
:) NON PARTICIPATING 100% STATE

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% Fed 20% State MINOR STRUCTURE Y007
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	7
42001200	PAVEMENT FABRIC	SQ YD	220
44004250	PAVED SHOULDER REMOVAL	SQ YD	35
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	220
44213200	SAW CUTS	FOOT	109
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1783
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	202
51500100	NAME PLATES	EACH	2
52100510	ANCHOR BOLTS, 3/4"	EACH	8
54213453	END SECTIONS 18"	EACH	2
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	2
54213729	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 84"	EACH	1
54248510	CONCRETE COLLAR	CU YD	0.5
X0323660	DROP BOX NO. 1	EACH	1
63200310	GUARDRAIL REMOVAL	FOOT	162.5
63500105	DELINEATORS	EACH	9
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	20
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1

\* SPECIALTY ITEMS  
:) NON PARTICIPATING 100% STATE

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% Fed 20% State
			MINOR STRUCTURE Y007
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	67
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1639
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	24
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	615
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	250
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	22800
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2
78300100	PAVEMENT MARKING REMOVAL	SQ FT	643
5421D042	PIPE CULVERTS, CLASS D, TYPE 1 42" (TEMPORARY)	FOOT	22
5421D048	PIPE CULVERTS, CLASS D, TYPE 1 48" (TEMPORARY)	FOOT	19
542A0265	PIPE CULVERTS, CLASS A, TYPE 1 60"	FOOT	78
542A1129	PIPE CULVERTS, CLASS A, TYPE 2 84"	FOOT	87
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	60
* A2001714	TREE, ACER SACCHARUM (SUGAR MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	9

\* SPECIALTY ITEMS  
:) NON PARTICIPATING 100% STATE

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	80% Fed 20% State
			MINOR STRUCTURE Y007
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	9
* A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	659
XX001135	PAVEMENT PATCHING SPECIAL	SQ YD	110
Z0005400	BREAKER-RUN CRUSHED STONE	TON	324
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0017100	DOWEL BARS	EACH	40
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Z0075300	TIE BARS	EACH	78

\* SPECIALTY ITEMS  
:) NON PARTICIPATING 100% STATE

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301 (US 20)	21T-2	Stephenson	56	5
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C63				

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.

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 & 5A mixture 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. 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.

All mandatory joint sealing for Class A, Class B, and Class B (Hinge Jointed) patches as shown on the plans will not be measured for payment. Optional sawing of the joint for the sealant reservoir will not be measured for payment.

For all concrete patching that will not be resurfaced, the concrete shall be struck off flush with the existing pavement surface at each end of the patch.

The Engineer reserves the right to check all patches for smoothness by the use of a 10' rolling straight edge set to a 3/16" tolerance in the wheel paths. Any patch areas higher than 3/16" must be ground smooth with an approved grinding device consisting of multiple saws. The use of bushhammer or other impact devices will not be permitted. Any patch with depressions greater than 3/16" shall be repaired in a manner approved by the Engineer.

The mandatory saw cuts for pavement patching are:

**Class A Patch:** Cut two transverse saw cuts at each end of the patch; one full depth and one partial depth. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

**Class B Patch:** Cut two transverse saw cuts outlining the patch and one transverse pressure relief saw cut. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

The mandatory saw cuts will be paid for at the contract unit price per Meter (Foot) for SAW CUTS.

The existing hot-mix asphalt on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. This could be the entire entrance or tapered at the end depending on if the mainline is resurfaced or milled and resurfaced. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Top Shoulder	Bottom Shoulder	HMA over Patch
PG:	PG 58-22	PG 58-22	PG 64-22
Design Air Voids	3 @ N50	2 @ N50	4 @ N70
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	BAM	IL 9.5 or 12.5
Friction Aggregate	C	N/A	D
20 Year ESAL	N/A	N/A	4.0

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 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 of the type specified.

The new numbers for the structures will be SN 089-1122 & SN 089-1110.

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

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

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

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 EARTH EXCAVATION.

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.

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

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.

# GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 301 (US 20)	21T-2	Stephenson	56	6
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64C63				

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.

In addition to the pins required in Section 704 of the Standard Specifications, the temporary concrete barrier shall be anchored to the pavement with 6 anchors per section at the following locations:

Sta. 442+83.7 to 445+33.3 STAGE I  
Sta. 442+34.0 to 445+83.25 STAGE II

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. Alternate planting site if needed shall be along US 20 Freeport Bypass.

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

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

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

Commonwealth Edison Co.                      Verizon

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

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

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

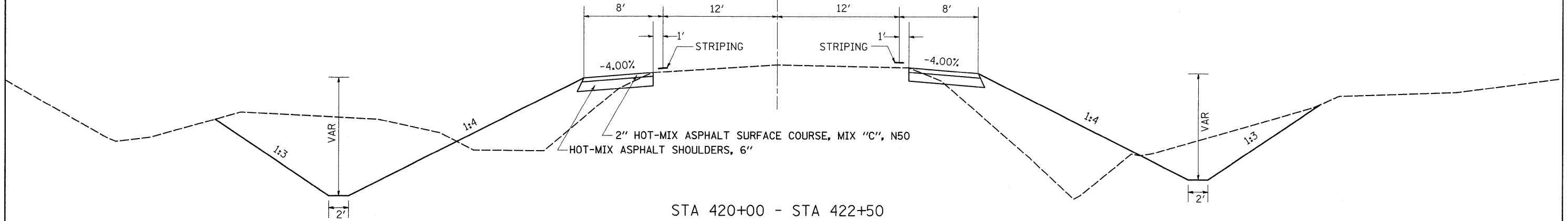
## COMMITMENTS

1. A roadside prairie is located north of US 20, beginning at the rest area and going westward to the Salem Road intersection west of Dameier Road. The prairie is located within 6 feet from the edge of pavement. The construction limits in this area shall be minimized along the prairie remnant as much as possible as shown on the project plans.
2. In order to minimize impacts to the prairie remnant, no construction activities shall take place 10' beyond the construction limits as shown in the plans.
3. Construction limits on the north side of US 20 shall be marked with temporary fencing before construction begins. The temporary fencing shall be removed after construction is completed.
4. No parking of vehicles or storage equipment or materials shall be allowed on the north side of US 20 to protect this prairie remnant described in Commitment #1.
5. After construction, all disturbed areas will be seeded with native prairie seed mix (Class 4 and 5A) in accordance with Section 250 (Seeding) of the Standard Specifications for Road and Bridge Construction (2007).

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

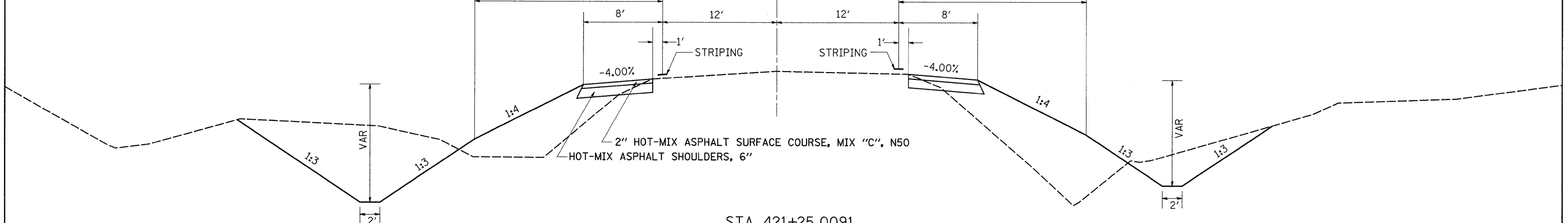
STA 418+00 - STA 420+00  
 STA 422+50 - STA 424+50

U.S. 20



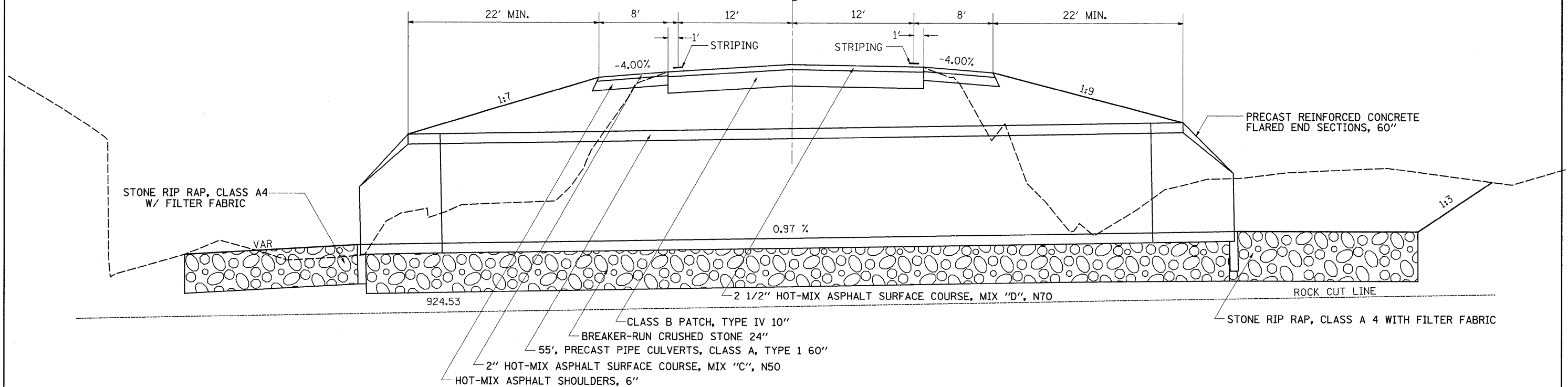
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U.S. 20



STA 421+25.0091  
 S.N. 089-1122

U.S. 20



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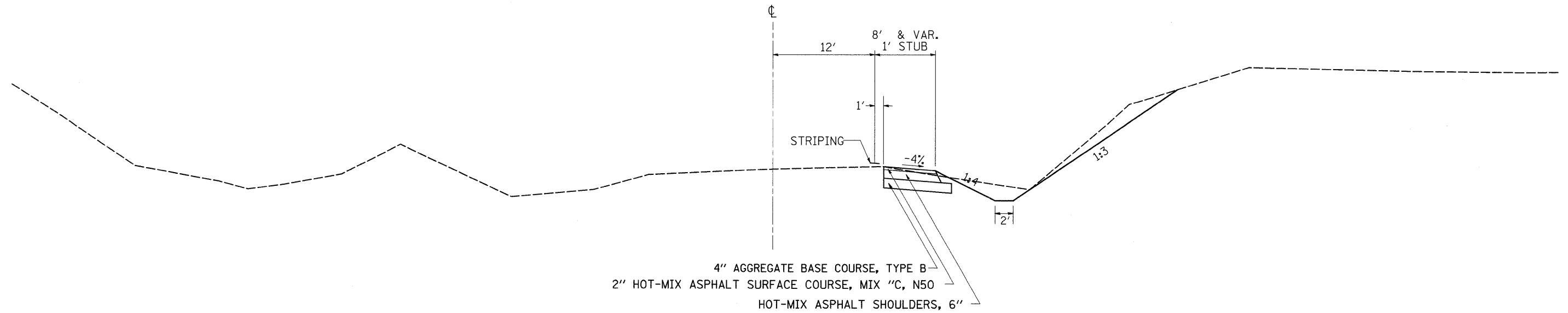
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US 20  
 TYPICAL SECTIONS  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

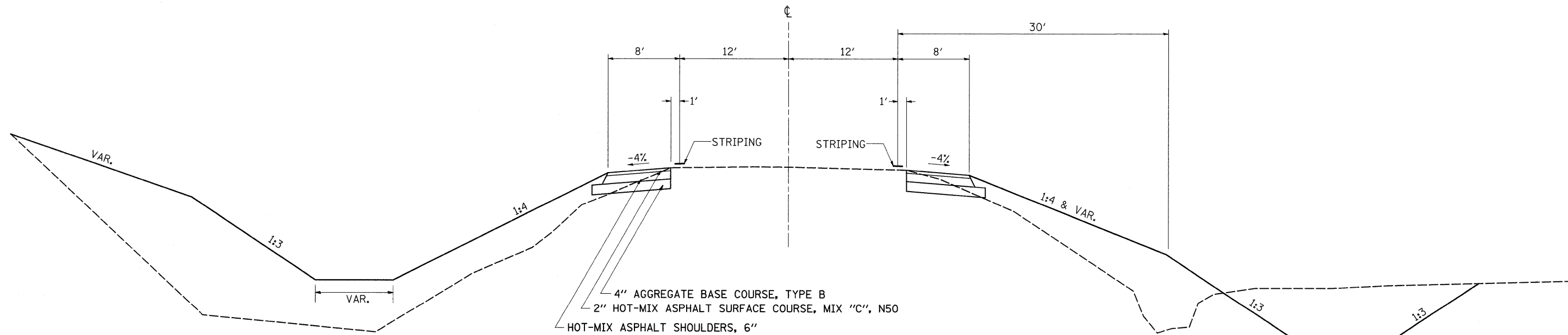
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	7
CONTRACT NO. 64C63				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

STA. 441+69.37 - 442+00 RT



ROCK CUT LINE

STA. 443+50 - 444+50

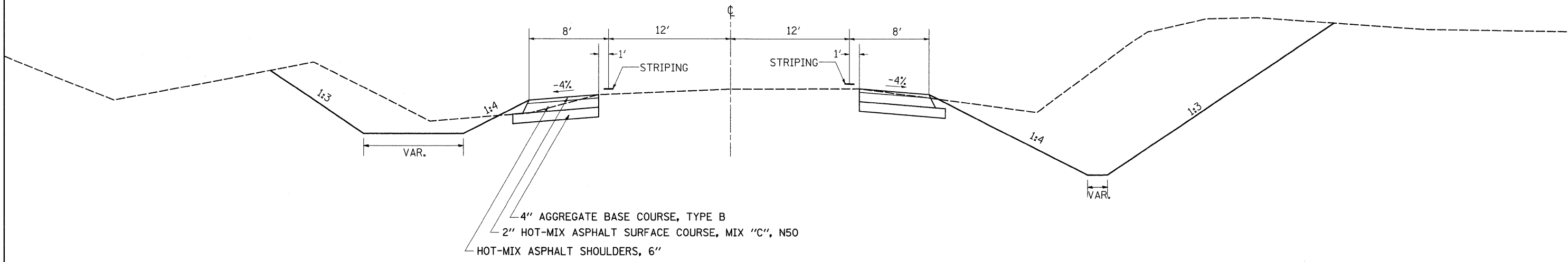


ROCK CUT LINE

FILE NAME =	USER NAME = dosidd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 20 TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\PWIDOT\DOSSDD\dms34382\st1106.dgn		DRAWN -	REVISED -		301	21T-2	STEPHENSON	56	8			
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64C63							
PLOT DATE = Thu Dec 04 07:47:04 2008		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
SCALE:					SHEET NO. OF SHEETS STA. TO STA.							



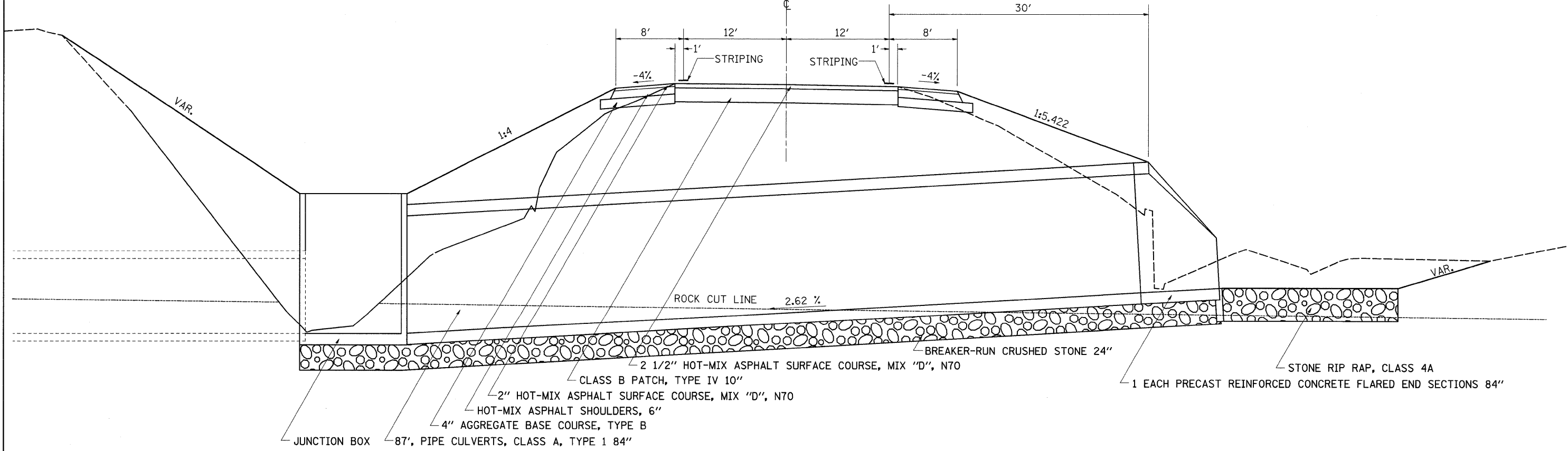
STA. 442+00 - 443+50 & STA 444+50 - STA 446+00



- 4" AGGREGATE BASE COURSE, TYPE B
- 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6"

ROCK CUT LINE

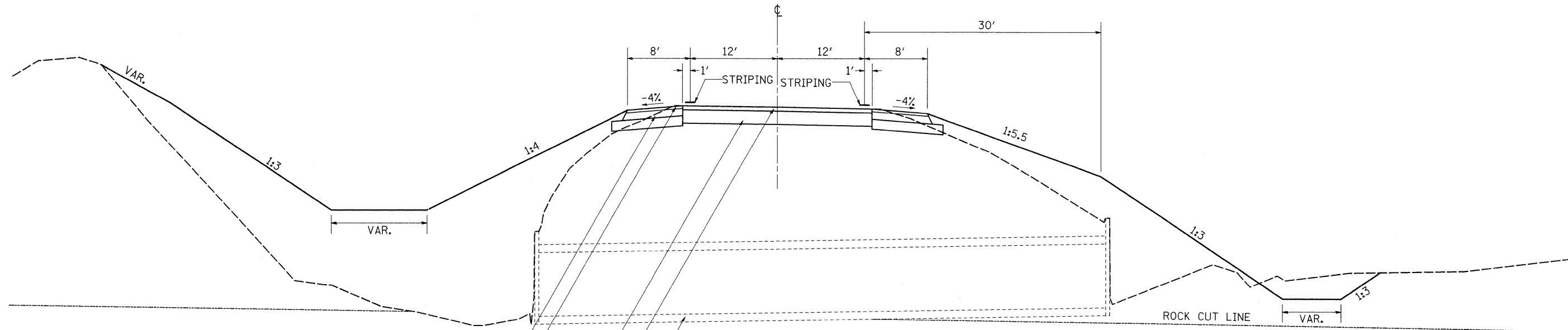
STA. 444+02



- 2 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- CLASS B PATCH, TYPE IV 10"
- 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- HOT-MIX ASPHALT SHOULDERS, 6"
- 4" AGGREGATE BASE COURSE, TYPE B
- 87', PIPE CULVERTS, CLASS A, TYPE 1 84"
- BREAKER-RUN CRUSHED STONE 24"
- STONE RIP RAP, CLASS 4A
- 1 EACH PRECAST REINFORCED CONCRETE FLARED END SECTIONS 84"

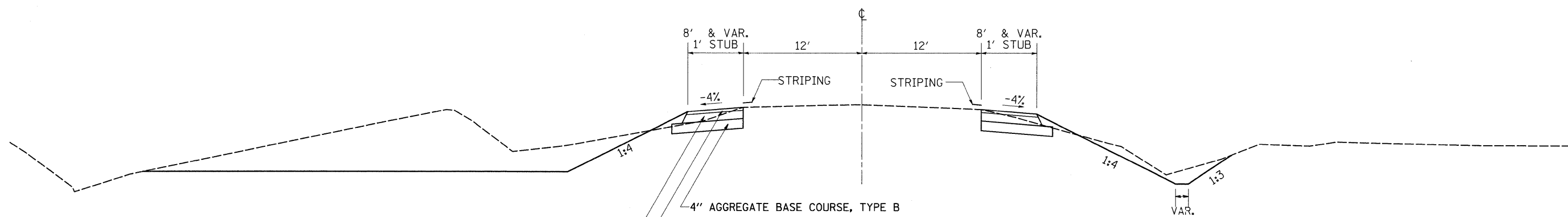
FILE NAME =	USER NAME = dosodd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 20 TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct\pw_work\PWIDOT\DOSSDD\dms34382\st1186	sup.dgn	DRAWN -	REVISED -		301	21T-2	STEPHENSON	56	9	CONTRACT NO. 64C63			
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
PLOT DATE = Thu Dec 04 07:47:05 2008	DATE -	REVISED -	REVISED -										

STA. 444+14.94



- REMOVAL OF EXISTING STRUCTURES NO. 1
- 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- CLASS B PATCH, TYPE IV 10.5"
- 4" AGGREGATE BASE COURSE, TYPE B
- 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6"

STA. 446+00 - STA. 446+50



- 4" AGGREGATE BASE COURSE, TYPE B
- 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6"

ROCK CUT LINE

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 20</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pw\dot\dosddd\dms34382\sl186.dgn		DRAWN -	REVISED -		<b>TYPICAL SECTIONS</b>		301	21T-2	STEPHENSON	56	10
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64C63	
PLOT DATE = Thu Dec 04 13:34:09 2008		DATE -	REVISED -								

**20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)**

UNIT	LOCATION	OFFSET	REMARKS
7	418+22	34' LT	
6	418+38	34' LT	
9	418+50	35' LT	
7	418+64	35' LT	
10	418+77	35' LT	
10	418+87	37' LT	
7	418+96	37' LT	
7	419+00	36.5' LT	
7	419+49	40' LT	
14	420+03	33.7' LT	
14	420+78	41' RT	
8	421+04	62' RT	
10	421+07	57' RT	
7	421+10	50' RT	
6	421+40	51' RT	
6	421+43	56' RT	
8	421+50	56' RT	
10	421+60	56' RT	
13	421+76	60' RT	
9	421+95	62' RT	
6	423+72	31' LT	
8	423+72	33' LT	
7	424+00	46' LT	
7	424+16	40' LT	
7	424+17	39' LT	
6	442+85	42' LT	
6	443+30	52' LT	
<b>220</b>	<b>TOTAL</b>		

**20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)**

UNIT	LOCATION	OFFSET	REMARKS
28	420+78	22' LT	
<b>28</b>	<b>TOTAL</b>		

**20101000 TEMPORARY FENCE**

FOOT	LOCATION	OFFSET	REMARKS
725	418+00 TO 425+11	LT	TO BE USED ALONG CONSTRUCTION LIMIT LINE
500	441+50 TO 446+27	LT	TO BE USED ALONG CONSTRUCTION LIMIT LINE
<b>1225</b>	<b>TOTAL</b>		

**20200100 EARTH EXCAVATION**

CU YD	LOCATION	OFFSET	REMARKS
954	418+00 TO 422+50	LT & RT	Haul Borrow for Stage I from 422+50 to 425+11
861	422+50 TO 425+11	LT & RT	
1843	441+50 TO 446+27	LT & RT	Haul Borrow for Stage II from Stage I
<b>3658</b>	<b>TOTAL</b>		

**20200200 ROCK EXCAVATION**

CU YD	LOCATION	OFFSET	REMARKS
50	418+00 TO 425+11		TO BE USED IF NEEDED
50	441+50 TO 446+27		TO BE USED IF NEEDED
<b>100</b>	<b>TOTAL</b>		

**20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL**

CU YD	LOCATION	OFFSET	REMARKS
50	418+00 TO 425+11		TO BE USED IF NEEDED
50	441+50 TO 446+27		TO BE USED IF NEEDED
<b>100</b>	<b>TOTAL</b>		

**25000210 SEEDING, CLASS 2A**

ACRE	LOCATION	OFFSET	REMARKS
0.31	418+00 TO 425+11	LT	FORESLOPES
0.24	418+00 TO 425+11	RT	FORESLOPES
0.34	441+50 TO 446+27	LT	FORESLOPES
0.28	441+50 TO 446+27	RT	FORESLOPES
<b>1.17</b>	<b>TOTAL</b>		

**25000310 SEEDING, CLASS 4**

ACRE	LOCATION	OFFSET	REMARKS
0.12	418+00 TO 425+11	LT	BACKSLOPES
0.14	418+00 TO 425+11	RT	BACKSLOPES
0.44	441+50 TO 446+27	LT	BACKSLOPES
0.42	441+50 TO 446+27	RT	BACKSLOPES
<b>1.12</b>	<b>TOTAL</b>		

**25000322 SEEDING, CLASS 5A**

ACRE	LOCATION	OFFSET	REMARKS
0.12	418+00 TO 425+11	LT	BACKSLOPES
0.14	418+00 TO 425+11	RT	BACKSLOPES
0.44	441+50 TO 446+27	LT	BACKSLOPES
0.42	441+50 TO 446+27	RT	BACKSLOPES
<b>1.12</b>	<b>TOTAL</b>		

**25000750 MOWING**

ACRE	LOCATION	OFFSET	REMARKS
0.43	418+00 TO 425+11	LT	
0.38	418+00 TO 425+11	RT	
0.78	441+50 TO 446+27	LT	
0.70	441+50 TO 446+27	RT	
<b>2.29</b>	<b>TOTAL</b>		

**25100115 MULCH, METHOD 2**

ACRE	LOCATION	OFFSET	REMARKS
0.43	418+00 TO 425+11	LT	
0.38	418+00 TO 425+11	RT	
0.78	441+50 TO 446+27	LT	
0.70	441+50 TO 446+27	RT	
<b>2.29</b>	<b>TOTAL</b>		

**25100630 EROSION CONTROL BLANKET**

SQ YD	LOCATION	OFFSET	REMARKS
289	418+00 TO 421+16	LT	8' WIDE
289	418+00 TO 421+16	RT	8' WIDE
289	421+34 TO 424+50	LT	8' WIDE
289	421+34 TO 424+50	RT	8' WIDE
107	441+50 TO 442+68	RT	8' WIDE
280	441+50 TO 443+90	LT	8' TO 13' WIDE
124	443+26 TO 444+03	RT	8' TO 20' WIDE
888	444+15 TO 446+50	LT	18' TO 50' WIDE
204	444+24 TO 446+50	RT	8' WIDE
<b>2759</b>	<b>TOTAL</b>		

**28000250 TEMPORARY EROSION CONTROL SEEDING**

POUND	LOCATION	OFFSET	REMARKS
916	418+00 TO 446+27	LT & RT	4 APPLICATIONS IF APPLICABLE
<b>916</b>	<b>TOTAL</b>		

**28000300 TEMPORARY DITCH CHECKS**

EACH	LOCATION	OFFSET	REMARKS
19	418+00 TO 422+50	LT	25' SPACING
8	418+00 TO 420+00.0	RT	30' SPACING
7	420+00 TO 421+50	RT	25' SPACING
11	421+50 TO 424+50	RT	30' SPACING
8	422+50 TO 424+50	LT	30' SPACING
7	441+50 TO 444+50	LT	50' SPACING
8	441+50 TO 442+50	RT	15' SPACING
11	442+50 TO 444+50	RT	20' SPACING
6	444+50 TO 446+00	LT	30' SPACING
14	444+50 TO 446+50	RT	15' SPACING
4	446+00 TO 446+50	LT	15' SPACING
<b>103</b>	<b>TOTAL</b>		

**28000400 PERIMETER EROSION BARRIER**

FOOT	LOCATION	OFFSET	REMARKS
50	421+00 TO 421+50	LT	
150	443+50 TO 445+00	LT	
<b>200</b>	<b>TOTAL</b>		

**28000500 INLET AND PIPE PROTECTION**

EACH	LOCATION	OFFSET	REMARKS
1	421+25	RT	
1	442+68	RT	
1	444+02	RT	
<b>3</b>	<b>TOTAL</b>		

**28100107 STONE RIP RAP, CLASS 4A**

SQ YD	LOCATION	OFFSET	REMARKS
33.3	421+25	RT	20' X 15'
31.5	421+25	LT	14.17' X 20'
44.4	444+02	RT	20' X 20'
85.7	444+02	LT	25' X 30.85'
<b>194.9</b>	<b>TOTAL</b>		

**28200200 FILTER FABRIC**

SQ YD	LOCATION	OFFSET	REMARKS
33.3	421+25	RT	20' X 15'
31.5	421+25	LT	14.17' X 20'
44.4	444+02	RT	20' X 20'
85.7	444+02	LT	25' X 30.85'
<b>194.9</b>	<b>TOTAL</b>		

**35101400 AGGREGATE BASE COURSE, TYPE B**

TON	LOCATION	OFFSET	REMARKS
19	420+24 TO 421+17.6	LT	Assume 4" build up for Stage I - 8' wide PE (8" THICKNESS)
30	424+79	RT	
97	441+50 TO 446+50	RT	FE (8" THICKNESS)
89	442+00 TO 446+50	LT	
88	443+97		
<b>323</b>	<b>TOTAL</b>		

**40600990 TEMPORARY RAMP**

SQ YD	LOCATION	OFFSET	REMARKS
15	421+06		TO BE USED IF NEEDED TO ALLOW CURE TIME FOR CLASS B PATCHES BEFORE SURFACE PLACEMENT
15	421+37		
15	443+87		
15	444+32		
<b>59</b>	<b>TOTAL</b>		

**40603310 HOT MIX ASPHALT SURFACE COURSE, MIX "C", N 50**

TON	LOCATION	OFFSET	REMARKS
61	418+00 TO 425+11	RT	STAGE II
55	418+00 TO 424+50	LT	
42	441+50 TO 446+50	RT	
38	442+00 TO 446+50	LT	
4	443+87 TO 444+32	LT	
<b>200</b>	<b>TOTAL</b>		

**40603340 HOT MIX ASPHALT SURFACE COURSE, MIX "D", N 70**

TON	LOCATION	OFFSET	REMARKS
13	421+06 TO 421+37		PATCH
18	443+87 TO 444+32		PATCH
<b>31</b>	<b>TOTAL</b>		

**40800050 INCIDENTAL HOT-MIX SURFACING**

TON	LOCATION	OFFSET	REMARKS
6.8	424+79	RT	PE

**42001200 PAVEMENT FABRIC**

SQ YD	LOCATION	OFFSET	REMARKS
90	421+06 TO 421+37		
130	443+87 TO 444+32		
<b>220</b>	<b>TOTAL</b>		

**44004250 PAVED SHOULDER REMOVAL**

SQ YD	LOCATION	OFFSET	REMARKS
35	443+87 TO 444+32	LT	STAGE II
<b>35</b>	<b>TOTAL</b>		

**44200976 CLASS B PATCHES, TYPE IV, 10 INCH**

SQ YD	LOCATION	OFFSET	REMARKS
90	421+06 TO 421+37		
130	443+87 TO 444+32		
<b>220</b>	<b>TOTAL</b>		

**44213200 SAW CUTS**

FOOT	LOCATION	OFFSET	REMARKS
109	421+06 TO 421+37		
123	443+87 TO 444+32		
<b>109</b>	<b>TOTAL</b>		

**48203021 HOT - MIX ASPHALT SHOULDERS, 6"**

SQ YD	LOCATION	OFFSET	REMARKS
541	418+00 TO 425+11	RT	
493	418+00 TO 424+50	LT	
372	441+50 TO 446+50	RT	
342	442+00 TO 446+50	LT	
35	443+87 TO 444+32	LT	
<b>1783</b>	<b>TOTAL</b>		

**50100300 REMOVAL OF EXISTING STRUCTURE NO. 1**

EACH	LOCATION	OFFSET	REMARKS
1	421+25.0		6' X 6' Box Culvert with CMP Extensions

**50100400 REMOVAL OF EXISTING STRUCTURE NO. 2**

EACH	LOCATION	OFFSET	REMARKS
1	444+14.9		5' X 4' Box Culvert

**50200400 ROCK EXCAVATION FOR STRUCTURES**

CU YD	LOCATION	OFFSET	REMARKS
202	444+02		Assume 3.5' Depth 12' x 130'

**51500100 NAME PLATES**

EACH	LOCATION	OFFSET	REMARKS
1	421+25		
1	444+02		
<b>2</b>	<b>TOTAL</b>		

**52100510 ANCHOR BOLTS, 3/4"**

EACH	LOCATION	OFFSET	REMARKS
8	444+02		Concrete Collar for Temporary Pipe

**542A0265 PIPE CULVERTS, CLASS A, TYPE 1 60"**

FOOT	LOCATION	OFFSET	REMARKS
78	421+25		

**542A1129 PIPE CULVERTS, CLASS A, TYPE 2 84"**

FOOT	LOCATION	OFFSET	REMARKS
87	444+02		

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

FOOT	LOCATION	OFFSET	REMARKS
60	442+68 TO 443+26	RT	FE

**5421D042 PIPE CULVERTS, CLASS D, TYPE 1 42" (TEMPORARY)**

FOOT	LOCATION	OFFSET	REMARKS
22	444+02	LT	

**5421D048 PIPE CULVERTS, CLASS D, TYPE 1 48" (TEMPORARY)**

FOOT	LOCATION	OFFSET	REMARKS
19	421+25	LT	

**54213453 END SECTIONS 18"**

EACH	LOCATION	OFFSET	REMARKS
1	442+68	RT	FE
1	443+26	RT	FE
<b>2</b>	<b>TOTAL</b>		

**54213705 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"**

EACH	LOCATION	OFFSET	REMARKS
2	421+25	LT & RT	

**54213729 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 84"**

EACH	LOCATION	OFFSET	REMARKS
1	444+02	RT	AR

**54248510 CONCRETE COLLAR**

CU YD	LOCATION	OFFSET	REMARKS
0.5	444+02	LT	

**60247200 JUNCTION BOX**

EACH	LOCATION	OFFSET	REMARKS
1	444+02	LT	

**63200310 GUARDRAIL REMOVAL**

FOOT	LOCATION	OFFSET	REMARKS
87.5	420+74.5 TO 421+62.0	RT	
75.0	420+78.6 TO 421+53.6	LT	
<b>162.5</b>	<b>TOTAL</b>		

**63500105 DELINEATORS**

EACH	LOCATION	OFFSET	REMARKS
2	421+25	LT & RT	
2	442+68 TO 443+26	RT	EACH END OF FE CULVERT
5	444+02		4 LT & 1 RT
<b>9</b>	<b>TOTAL</b>		

**66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS**

EACH	LOCATION	OFFSET	REMARKS
1	418+00	34.3' RT	
1	418+50	50' RT	
1	420+00	50' RT	
1	421+00	75' RT	
1	421+15	31.7' LT	
1	421+15	60' LT	
1	421+35	31.7' LT	
1	421+35	60' LT	
1	422+00	75' RT	
1	424+00	55' RT	
1	425+00	34.4' RT	
1	441+00	50' RT	
1	442+00	55' RT	
1	443+50	105' RT	
1	443+90	39.2' LT	
1	443+90	70' LT	
1	444+15	39.3' LT	
1	444+15	70' LT	
1	444+50	95' RT	
1	446+67	50' RT	
<b>20</b>	<b>TOTAL</b>		

**66700305 PERMANENT SURVEY MARKERS, TYPE II**

EACH	LOCATION	OFFSET	REMARKS
2	AT EACH CULVERT		
2	AT EACH CULVERT		CONTACT SURVEY DEPARTMENT
<b>4</b>	<b>TOTAL</b>		

**70300100 SHORT-TERM PAVEMENT MARKING**

FOOT	LOCATION	OFFSET	REMARKS
4	421+06 TO 421+37		
63	441+05 TO 447+31		
<b>67</b>	<b>TOTAL</b>		

**70300520 PAVEMENT MARKING TAPE, TYPE III 4"**

FOOT	LOCATION	OFFSET	REMARKS
583	441+19 TO 446+99		STAGE I (WHITE)
492	441+65 TO 446+97		STAGE II (WHITE)
316	442+53 TO 445+09		STAGE I (WHITE)
248	442+91 TO 445+23		STAGE II (WHITE)
<b>1639</b>	<b>TOTAL</b>		

**70300570 PAVEMENT MARKING TAPE, TYPE III 24"**

FOOT	LOCATION	OFFSET	REMARKS
12	441+05	RT	STOP BAR
12	447+31	LT	STOP BAR
<b>24</b>	<b>TOTAL</b>		

**70301000 WORK ZONE PAVEMENT MARKING REMOVAL**

SQ FT	LOCATION	OFFSET	REMARKS
1	421+06 TO 421+37		SHORT TERM
24	441+05	RT	STOP BAR
21	441+05 TO 447+31		SHORT TERM
194	441+19 TO 446+99		STAGE I
164	441+65 TO 446+97		STAGE II
105	442+53 TO 445+09		STAGE I
83	442+91 TO 445+23		STAGE II
24	447+31	LT	STOP BAR
<b>615</b>	<b>TOTAL</b>		

**70400100 TEMPORARY CONCRETE BARRIER**

FOOT	LOCATION	OFFSET	REMARKS
350	442+34 TO 445+83		STAGE I

**70400200 RELOCATE TEMPORARY CONCRETE BARRIER**

FOOT	LOCATION	OFFSET	REMARKS
250	442+84 TO 445+33		STAGE II

**78001110 PAINT PAVEMENT MARKING - LINE 4"**

FOOT	LOCATION	OFFSET	REMARKS
11400	418+00 TO 446+50	RT & LT	white edge lines (2 applications)
11400	418+00 TO 446+50	CL	Double Yellow (2 applications)
<b>22800</b>	<b>TOTAL</b>		

**78100100 RAISED REFLECTIVE PAVEMENT MARKER**

EACH	LOCATION	OFFSET	REMARKS
1	421+25		
1	448+02		
<b>2</b>	<b>TOTAL</b>		

**78300100 PAVEMENT MARKING REMOVAL**

SQ FT	LOCATION	OFFSET	REMARKS
461	440+65.6 TO 447+57.0		STAGE I - Double Yellow
105	442+53.0 TO 445+68.3		STAGE II - white edge line
77	442+90.9 TO 445+23.5		STAGE I - white edge line
<b>643</b>	<b>TOTAL</b>		

**XX001135 PAVEMENT PATCHING SPECIAL**

SQ YD	LOCATION	OFFSET	REMARKS
55	421+06 TO 421+37	RT	STAGE I AFTER PIPE INSTALLATION
55	421+06 TO 421+37	RT	STAGE III - REM OF EXIST STR NO. 1 - RT
<b>110</b>	<b>TOTAL</b>		

**Z0005400 BREAKER-RUN CRUSHED STONE**

TON	LOCATION	OFFSET	REMARKS
119	421+25		
205	444+08		
<b>324</b>	<b>TOTAL</b>		

**X0323988 TEMPORARY SOIL RETENTION SYSTEM**

SQ. FT	LOCATION	OFFSET	REMARKS
300	443+89 TO 444+30		STAGE I
359	443+89 TO 444+30		STAGE II
<b>659</b>	<b>TOTAL</b>		

**Z0017100 DOWEL BARS**

EACH	LOCATION	OFFSET	REMARKS
10	421+06		
10	442+37		
10	443+87		
10	444+32		
<b>40</b>	<b>TOTAL</b>		

**Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3**

EACH	LOCATION	OFFSET	REMARKS
1	442+84		STAGE I
1	445+33		STAGE I
<b>2</b>	<b>TOTAL</b>		

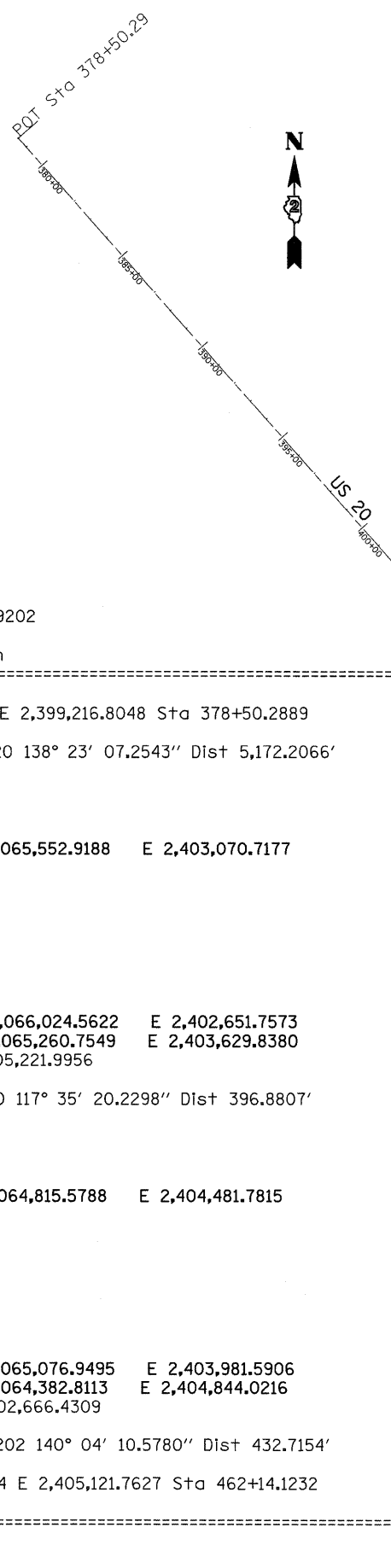
**Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3**

EACH	LOCATION	OFFSET	REMARKS
1	442+34		STAGE II
1	445+83		STAGE II
<b>2</b>	<b>TOTAL</b>		

**Z0075300 TIE BARS**

EACH	LOCATION	OFFSET	REMARKS
32	421+06 TO 421+37		
46	443+87 TO 444+32		
<b>78</b>	<b>TOTAL</b>		





Chain 20 contains:  
SS111213 CUR 220 CUR 230 SS049202

Beginning chain 20 description

Point SS111213 N 2,069,891.4501 E 2,399,216.8048 Sta 378+50.2889

Course from SS111213 to PC 220 138° 23' 07.2543" Dist 5,172.2066'

Curve Data

Curve 220

P.I. Station 436+53.3483 N 2,065,552.9188 E 2,403,070.7177  
 Delta = 20° 47' 47.0244" (LT)  
 Degree = 1° 39' 59.8097"  
 Tangent = 630.8528'  
 Length = 1,247.8233'  
 Radius = 3,437.8558'  
 External = 57.4021'  
 Long Chord = 1,240.9849'  
 Mid. Ord. = 56.4594'  
 P.C. Station 430+22.4955 N 2,066,024.5622 E 2,402,651.7573  
 P.T. Station 442+70.3188 N 2,065,260.7549 E 2,403,629.8380  
 C.C. N 2,068,307.7021 E 2,405,221.9956

Course from PT 220 to PC 230 117° 35' 20.2298" Dist 396.8807'

Curve Data

Curve 230

P.I. Station 452+31.5625 N 2,064,815.5788 E 2,404,481.7815  
 Delta = 22° 28' 50.3482" (RT)  
 Degree = 2° 01' 03.4845"  
 Tangent = 564.3630'  
 Length = 1,114.2083'  
 Radius = 2,839.7501'  
 External = 55.5368'  
 Long Chord = 1,107.0750'  
 Mid. Ord. = 54.4715'  
 P.C. Station 446+67.1995 N 2,065,076.9495 E 2,403,981.5906  
 P.T. Station 457+81.4078 N 2,064,382.8113 E 2,404,844.0216  
 C.C. N 2,062,560.0992 E 2,402,666.4309

Course from PT 230 to SS049202 140° 04' 10.5780" Dist 432.7154'

Point SS049202 N 2,064,050.9944 E 2,405,121.7627 Sta 462+14.1232

Ending chain 20 description

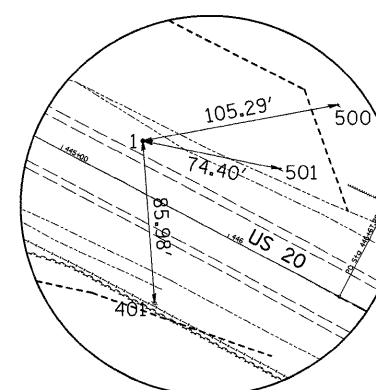
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2065159.0460	2403877.1670	913.1660	20	445+36.6286	24.4003' LT	GPS CONTROL POINT, PIN
2	2065386.1440	2403450.3530	911.9790	20	440+51.6833	21.1002' LT	GPS CONTROL POINT, PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2064835.6740	2403948.4010	923.7020	20	447+56.7232	227.9139' RT	TOPO SURVEY POINT, NAIL
101	2065241.1000	2403554.8590	917.2910	20	442+13.8301	52.6159' RT	TOPO SURVEY POINT, NAIL
102	2065392.4610	2403883.7610	902.6230	20	444+34.3725	234.3282' LT	TOPO SURVEY POINT, NAIL

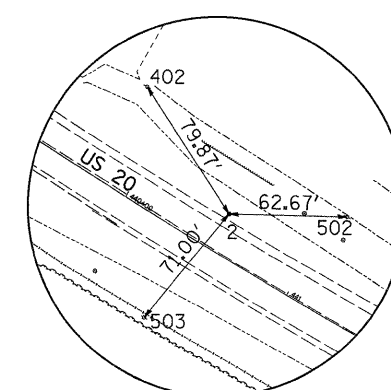
BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
405	2063784.0550	2405335.5160	917.4750	20	OUT OF CHAIN	-----	HEADWALL, CHISELED SQUARE
401	2065072.5310	2403883.7240	914.3460	20	445+82.5073	49.2406' RT	POWER POLE, POWER POLE
402	2065452.6260	2403407.9770	907.0350	20	439+79.8172	55.2351' LT	TELEGRAPH POLE, TELEGRAPH POLE

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	20	446+19.4920	89.3587' LT	WARNING SIGN, FACE
501	20	446+08.0911	45.1125' LT	WARNING SIGN, FACE
502	20	441+06.8358	52.0124' LT	TELEGRAPH POLE, FACE
503	20	440+41.6763	49.0902' RT	POWER POLE, FACE

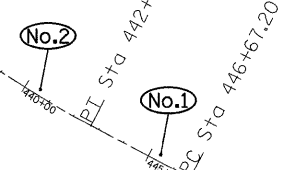
CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
20	220	220	221	222	223
20	230	230	231	232	233



HORIZONTAL CONTROL POINT No.1



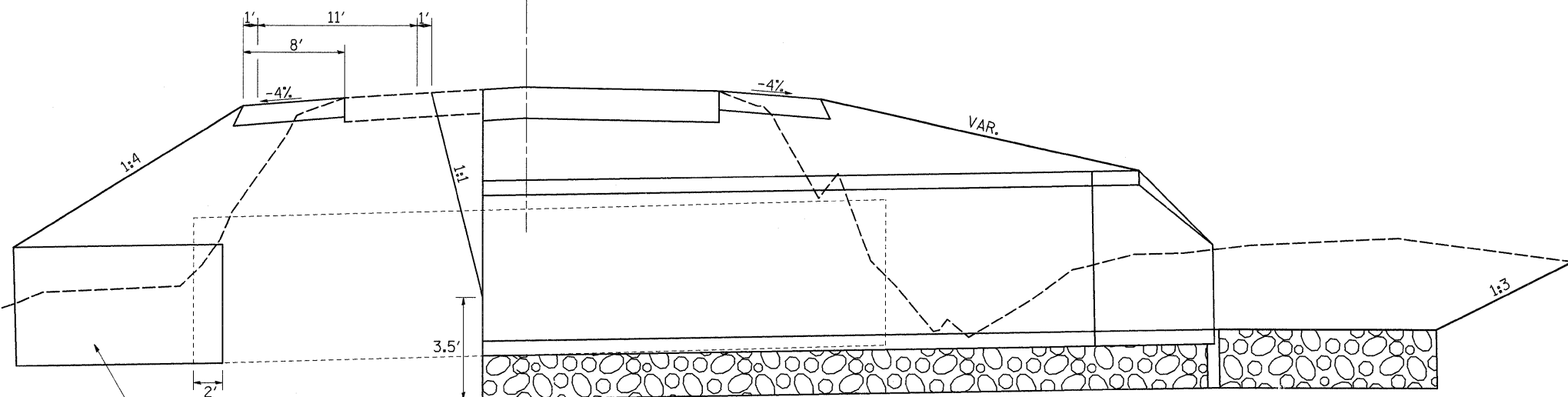
HORIZONTAL CONTROL POINT No.2



**STAGE I**

STA 421+25

U.S. 20



ROCK CUT LINE

19' PIPE CULVERTS, CLASS D, TYPE 1, 48" TEMPORARY

**STAGE I**

1. INSTALL TEMPORARY CULVERT.
2. REMOVE EXISTING GUARDRAIL.
3. CONSTRUCT AGGREGATE SHOULDER.
4. REMOVE AND REPLACE EXISTING STRUCTURE ON THE U/S END.
5. INSTALL TEMPORARY PATCH.
6. CONSTRUCT 7' HOT-MIX ASPHALT SHOULDER FOR A TOTAL OF 8' HOT-MIX ASPHALT SHOULDER.

NOTE: SEE CULVERT DETAIL  
TEMPORARY SOIL RETENTION  
SYSTEM SHEET

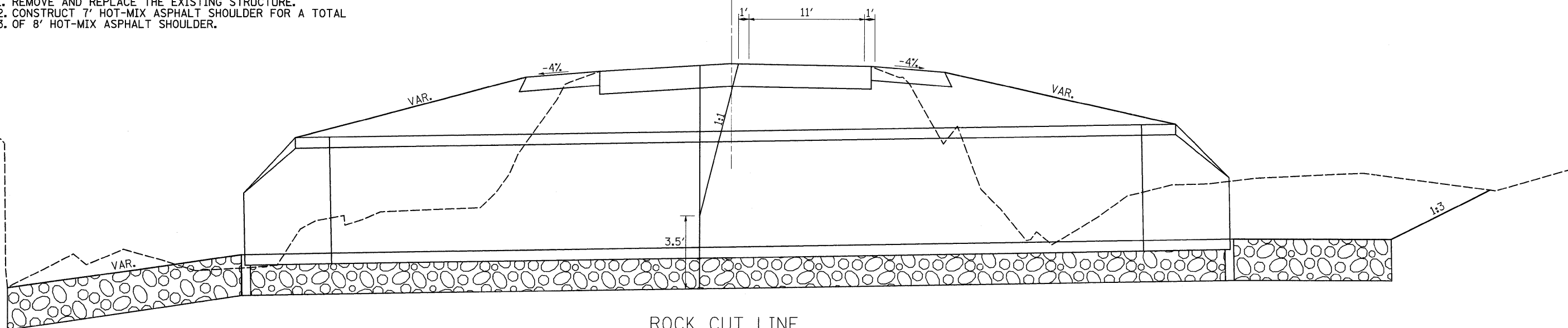
**STAGE II**

1. REMOVE AND REPLACE THE EXISTING STRUCTURE.
2. CONSTRUCT 7' HOT-MIX ASPHALT SHOULDER FOR A TOTAL OF 8' HOT-MIX ASPHALT SHOULDER.

**STAGE II**

STA 421+25

U.S. 20



ROCK CUT LINE

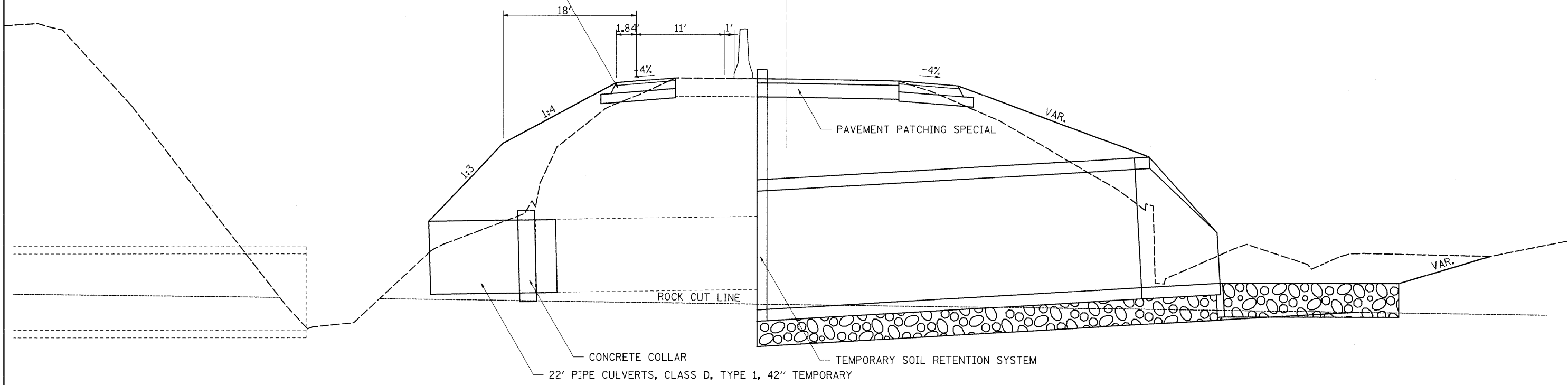
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c:\pw_work\FWIDOT\DOSSDD\dms34371\d11206atg.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	301	21T-2	STEPHENSON	56	18
		CHECKED -	REVISED -		CONTRACT NO. 64C63										
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT										

CONSTRUCT SHOULDER PER DIST. STD 23.4a  
 PRIOR TO PLACING TEMPORARY BARRIER WALL  
 USING TRAFFIC CONTROL AND PROTECTION STANDARD 701201

**STAGE I**

STA. 444+02

U.S. 20

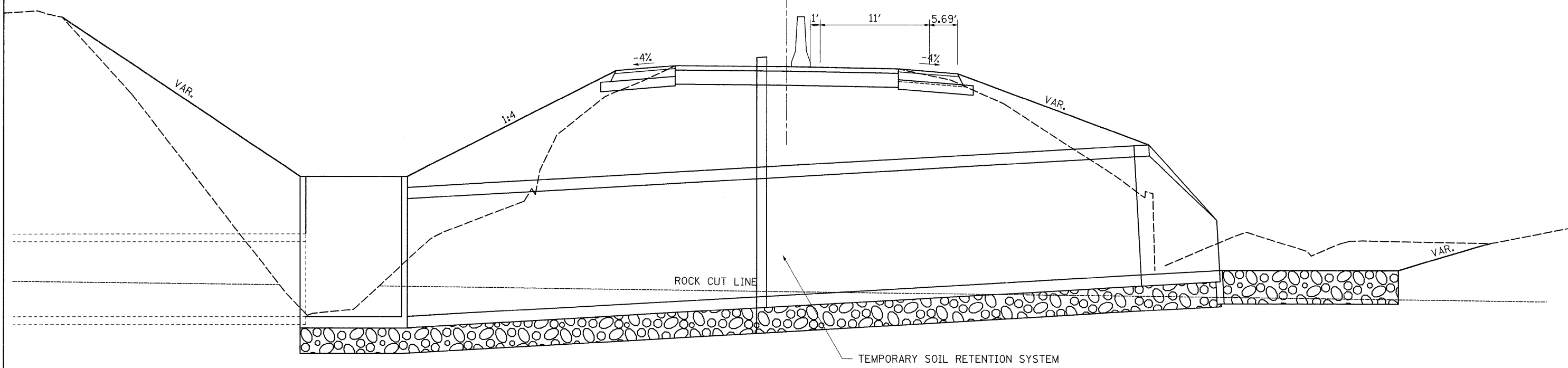


NOTE: SEE CULVERT DETAIL  
 TEMPORARY SOIL RETENTION  
 SYSTEM SHEET

**STAGE II**

STA. 444+02

U.S. 20



FILE NAME =  
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USER NAME = dssdd  
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 PLOT DATE = Thu Dec 04 07:22:03 2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**








**STAGING TYPICAL  
 CULVERT STA 444 + 08**

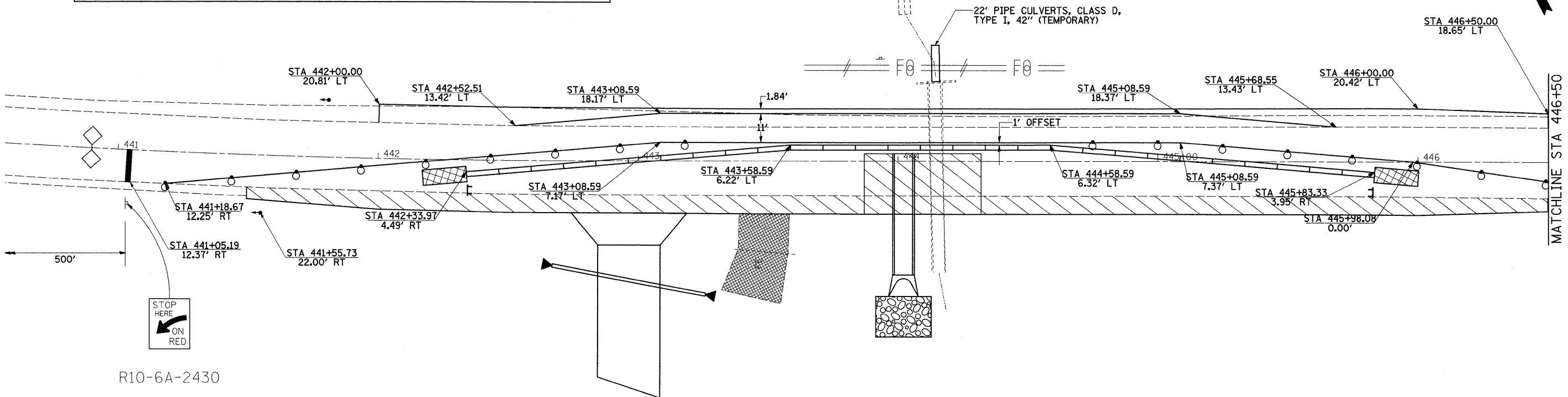
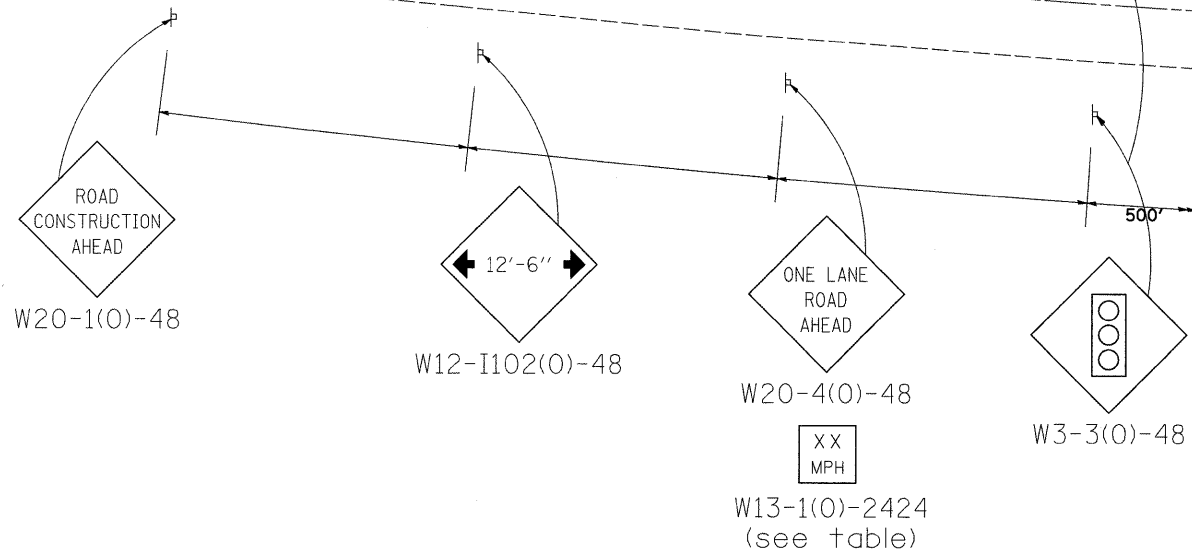
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C63	

**STAGE I**

1. INSTALL 42" TEMPORARY CULVERT WITH CONCRETE COLLAR.
2. CONSTRUCT 7' HOT-MIX ASPHALT SHOULDER FOR A TOTAL OF 8' HOT-MIX ASPHALT SHOULDER - LEFT.
3. REMOVE THE EXISTING HEADWALL AND WING WALLS AND LEAVE THE EXISTING CULVERT IN PLACE TO MAINTAIN THE FLOW OF THE CULVERT.
4. INSTALL PIPE CULVERT, CLASS A, TYPE 1, 84".
5. INSTALL PAVEMENT PATCHING SPECIAL.
6. CONSTRUCT 7' HOT-MIX ASPHALT SHOULDER FOR A TOTAL OF 8' HOT-MIX ASPHALT SHOULDER - RIGHT.

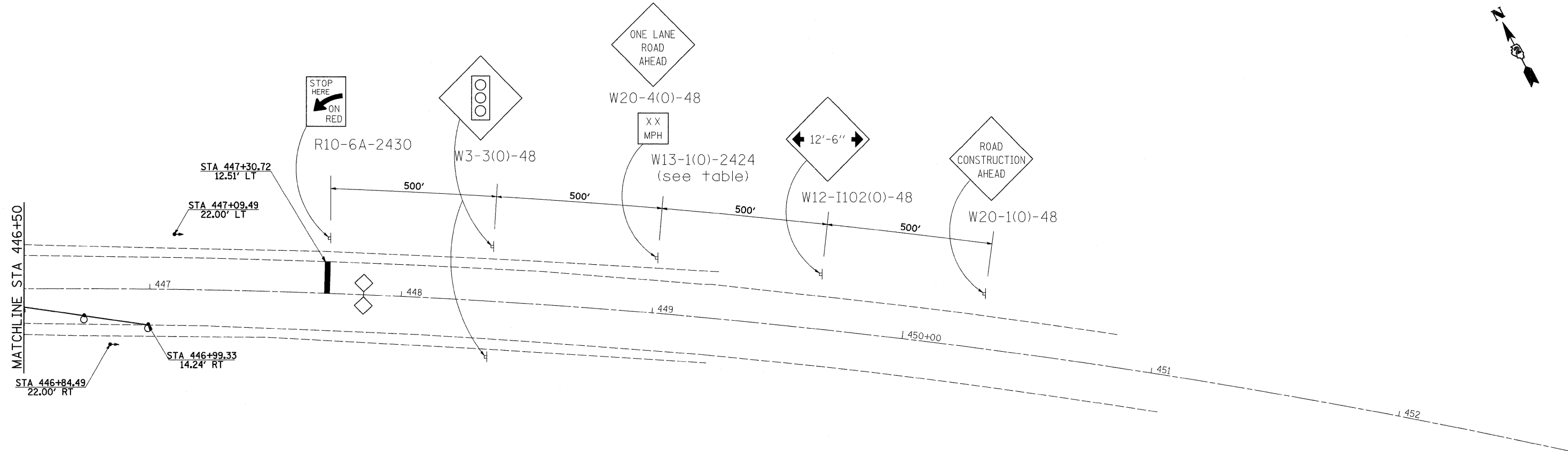
LEGEND	
	Work area
	Type III barricade
	Traffic signal
	Detector loops
	Drum with steady burning light
	Temporary concrete barrier
	Impact attenuator



R10-6A-2430

NOTE: THE TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH SIX PINS THROUGHOUT THE LENGTH OF THE PATCH  
 • SET TRAFFIC CONTROL PROTECTION PER STANDARD 701321 & 704001 FOR OTHER DEVICES NOT SHOWN IN WORK ZONE

FILE NAME =	USER NAME = dosodd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE I CONSTRUCTION CULVERT STA 444 + 02</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64C63							
PLOT DATE = Thu Dec 04 07:22:04 2008		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



LEGEND	
	Work area
	Type III barricade
	Traffic signal
	Detector loops
	Drum with steady burning light
	Temporary concrete barrier
	Impact attenuator

NOTE: THE TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH SIX PINS THROUGHOUT THE LENGTH OF THE PATCH  
 • SET TRAFFIC CONTROL PROTECTION PER STANDARD 701321 & 704001 FOR OTHER DEVICES NOT SHOWN IN WORK ZONE

FILE NAME =	USER NAME = dosadd	DESIGNED -	REVISED -
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PLOT DATE = Thu Dec 04 07:22:04 2008		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE I CONSTRUCTION  
CULVERT STA 444 + 02**








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

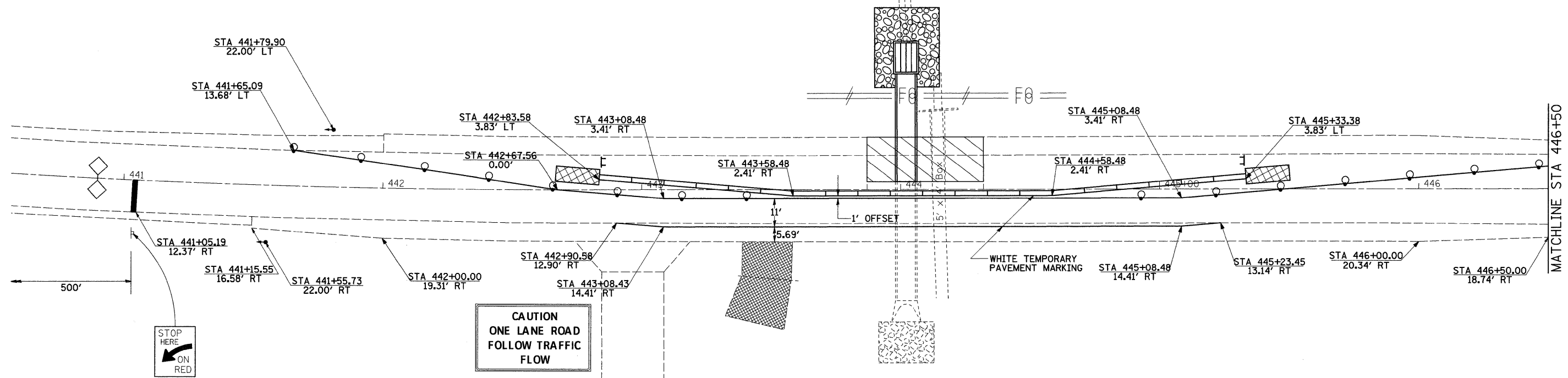
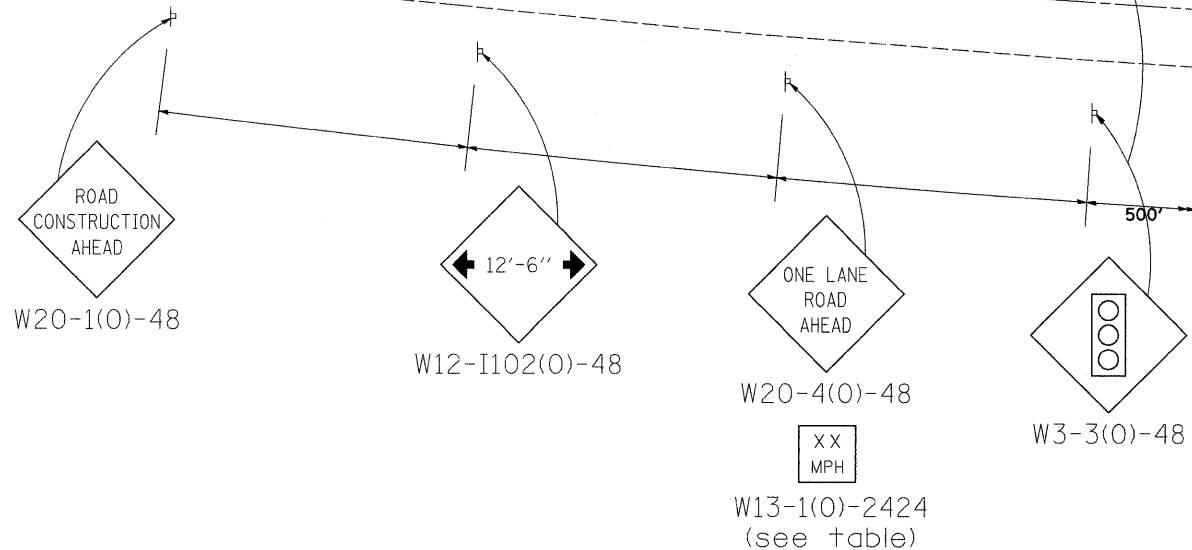
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	21
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64C63	

- STAGE II**
1. INSTALL PIPE CULVERT CLASS A, TYPE 1, 84" AND JUNCTION BOX.
  2. REMOVE EXISTING STRUCTURE NO. 2.
  3. CONSTRUCT CLASS B PATCH 10" WITH 2 1/2" SURFACE COURSE.

- STAGE III**  
USING STANDARD 701201
1. REMOVE THE REMAINING EXISTING STRUCTURE NO. 2 RIGHT FROM STAGE I.
  2. INSTALL PAVEMENT PATCHING SPECIAL (IF NEEDED)
  3. CONSTRUCT CLASS B, PATCH 10" WITH 2 1/2" SURFACE COURSE.

**LEGEND**

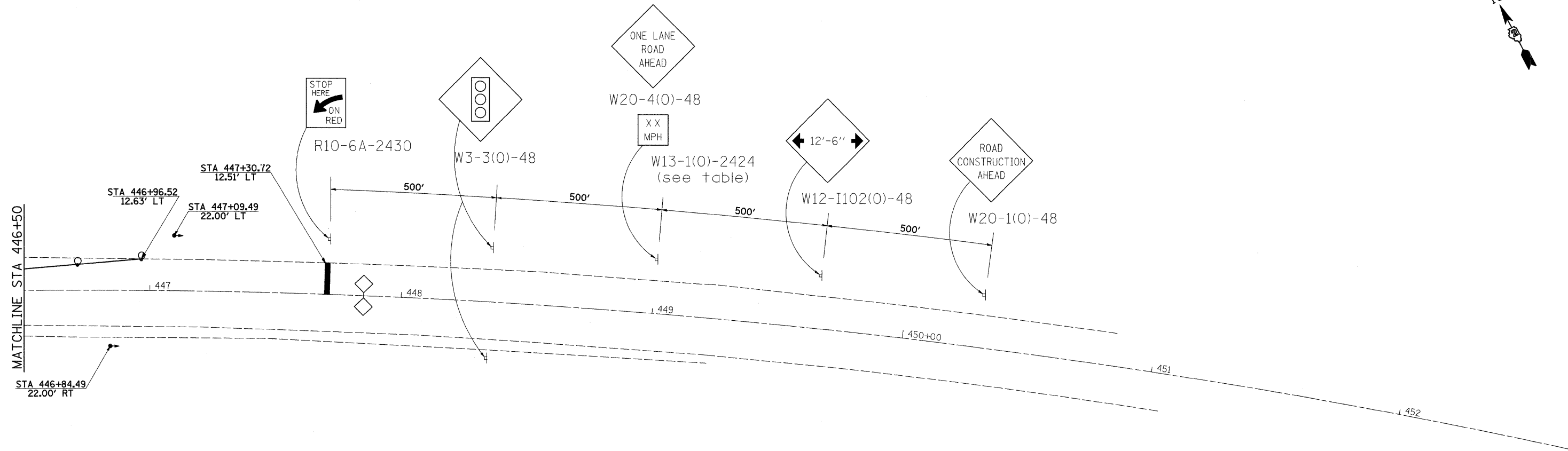
	Work area		Drum with steady burning light
	Type III barricade		Temporary concrete barrier
	Traffic signal		Impact attenuator
	Detector loops		



NOTE: THE TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH SIX PINS THROUGHOUT THE LENGTH OF THE PATCH  
 • SET TRAFFIC CONTROL PROTECTION PER STANDARD 701321, 704001 & DISTRICT STANDARD 75.2 FOR OTHER DEVICES NOT SHOWN IN WORK ZONE

R10-6A-2430

FILE NAME =	USER NAME = dssdd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE II CONSTRUCTION CULVERT STA 444 + 02</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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		CHECKED -	REVISED -												
		DATE -	REVISED -												
												CONTRACT NO. 64C63			
											ILLINOIS FED. AID PROJECT				



LEGEND	
	Work area
	Type III barricade
	Traffic signal
	Detector loops
	Drum with steady burning light
	Temporary concrete barrier
	Impact attenuator

NOTE: THE TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH SIX PINS THROUGHOUT THE LENGTH OF THE PATCH  
 • SET TRAFFIC CONTROL PROTECTION PER STANDARD 701321, 704001 & DISTRICT STANDARD 75.2 FOR OTHER DEVICES NOT SHOWN IN WORK ZONE

FILE NAME =	USER NAME = dosadd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE II CONSTRUCTION CULVERT STA 444 + 02</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Thu Dec 04 07:22:05 2008		DATE -	REVISED -		CONTRACT NO. 64C63								

09-12-14-504-001  
CHICAGO CENTRAL &  
PACIFIC RAILROAD

STONE RIPRAP, CLASS A4  
WITH FILTER FABRIC

7' HOT-MIX ASPHALT SHOULDERS, 6"  
2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

TEMP. EASEMENT

CONSTRUCTION LIMITS

REMOVAL OF EXISTING STRUCTURES NO. 1

S.N. 089-1122  
78' PIPE CULVERTS, CLASS "A", TYPE "1" 60"  
STA 421+25.0091 - 38.00' LT TO 40.00' RT  
2 EACH PRECAST CONCRETE FLARED  
END SECTION 60"

IMPROVEMENT BEGINS  
STA 418+00

EXISTING R.O.W.

417 US RTE 20 418 419 420+00 421 422

EXISTING R.O.W.

PROPOSED R.O.W.

PIPE GUARDRAIL REMOVAL

CONSTRUCTION LIMITS

2 1/2" HOT-MIX ASPHALT SURFACE  
COURSE, MIX "D" N70  
CLASS B PATCH, TYPE IV, 10"  
STA 421+06 - STA 421+37

SECTION BEGINS  
STA 418+50

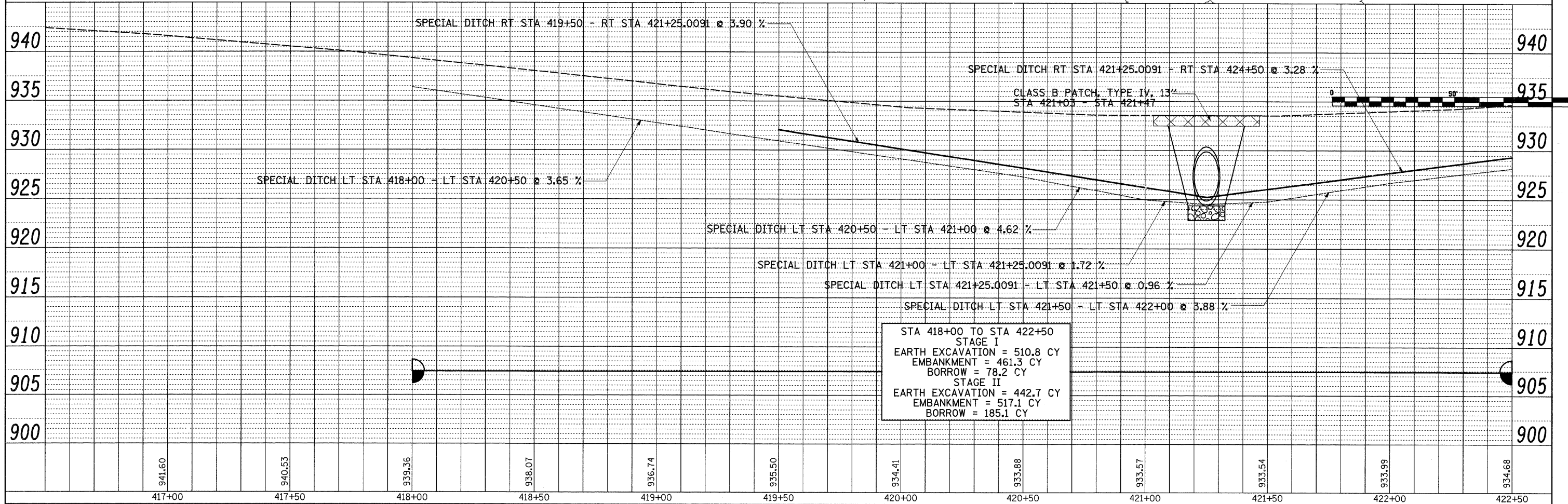
X = TREE REMOVAL

09-12-14-200-029  
MICHAEL & AMY ANDERSON



DATE	
BY	
PLAN	
SURVEYED	
PLANNED	
CHECKED	
NO. OF WAY CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

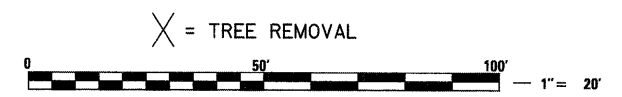
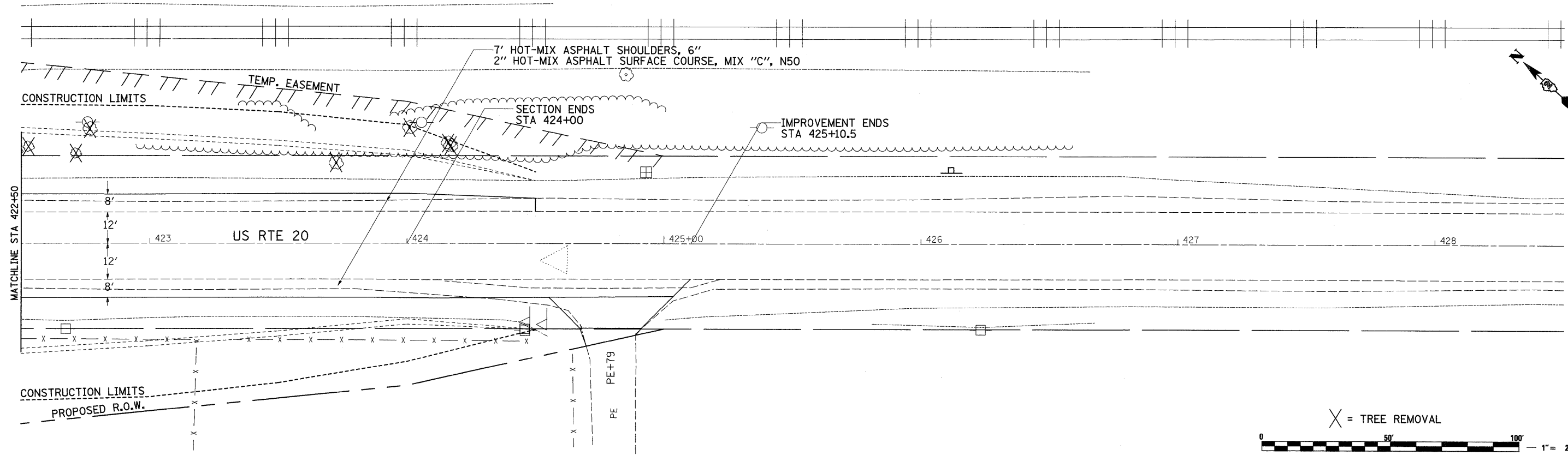
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STRUCTURE NOTATIONS CRFD	



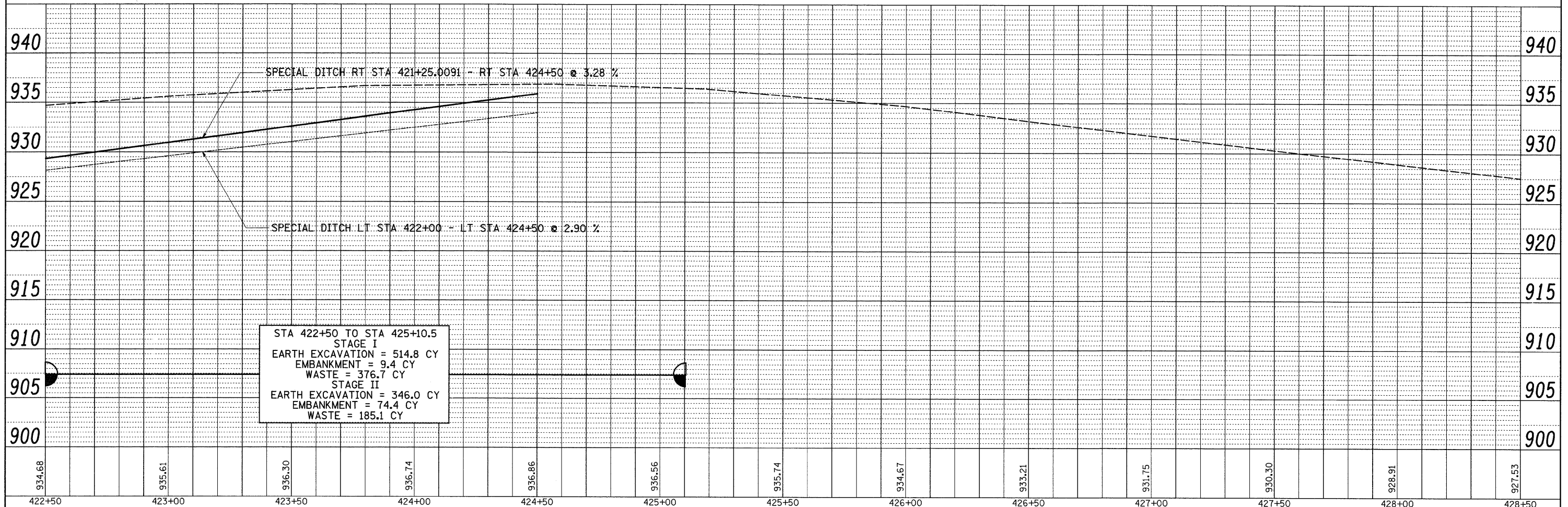
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PLOT DATE = Thu Dec 04 08:06:26 2008		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 REVISIONS \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CADD FILE NAME \_\_\_\_\_



PROFILE  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 REVISIONS \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 STRUCTURE NOTATIONS CHFD



FILE NAME =	USER NAME = dosadd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 20</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Thu Dec 04 08:06:26 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
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X = TREE REMOVAL

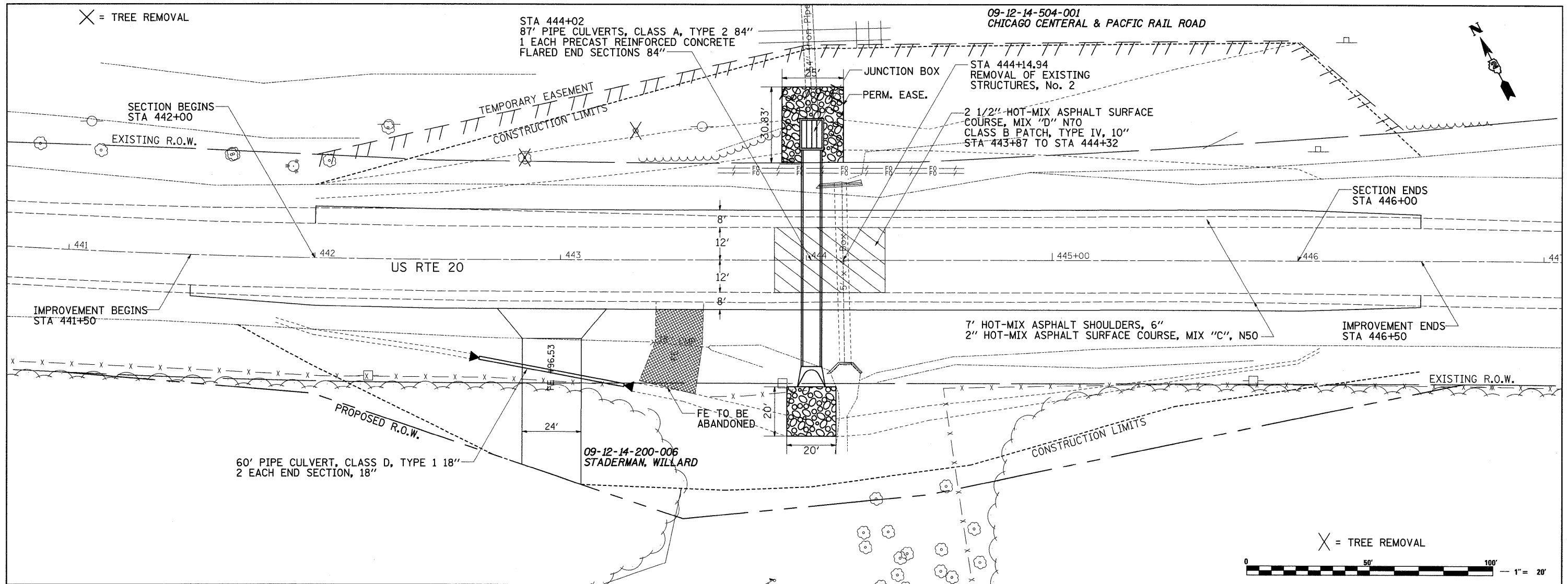
STA 444+02  
87' PIPE CULVERTS, CLASS A, TYPE 2 84"  
1 EACH PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 84"

09-12-14-504-001  
CHICAGO CENTRAL & PACIFIC RAIL ROAD

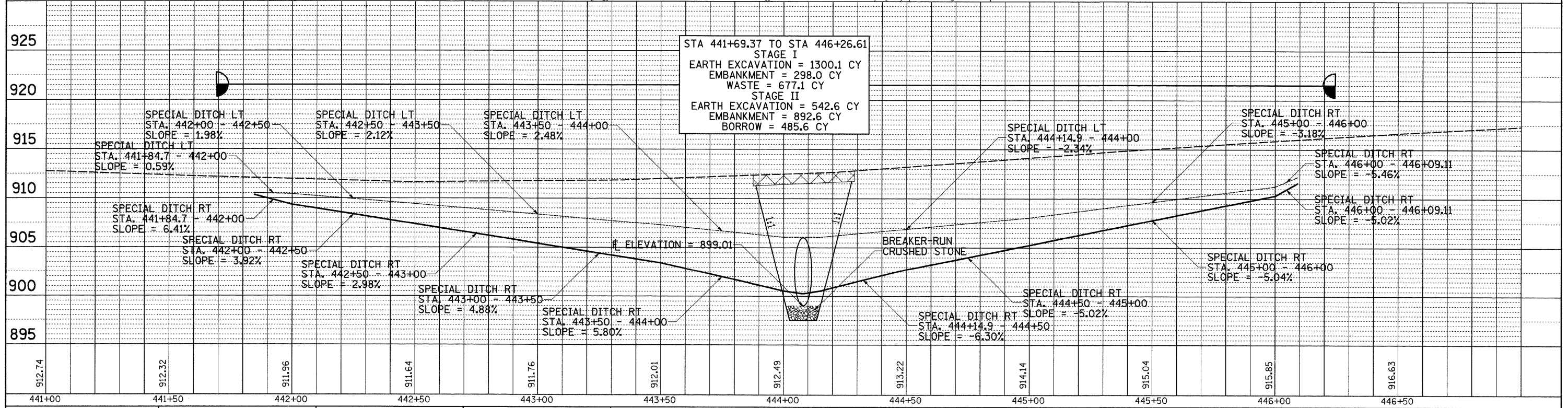


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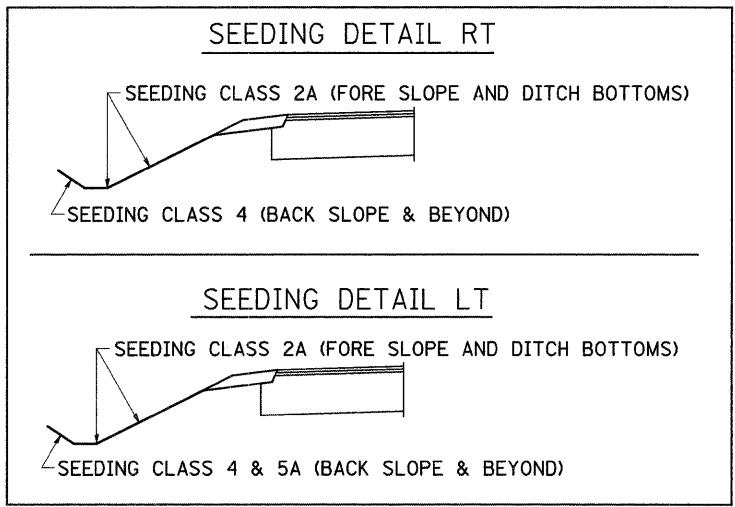
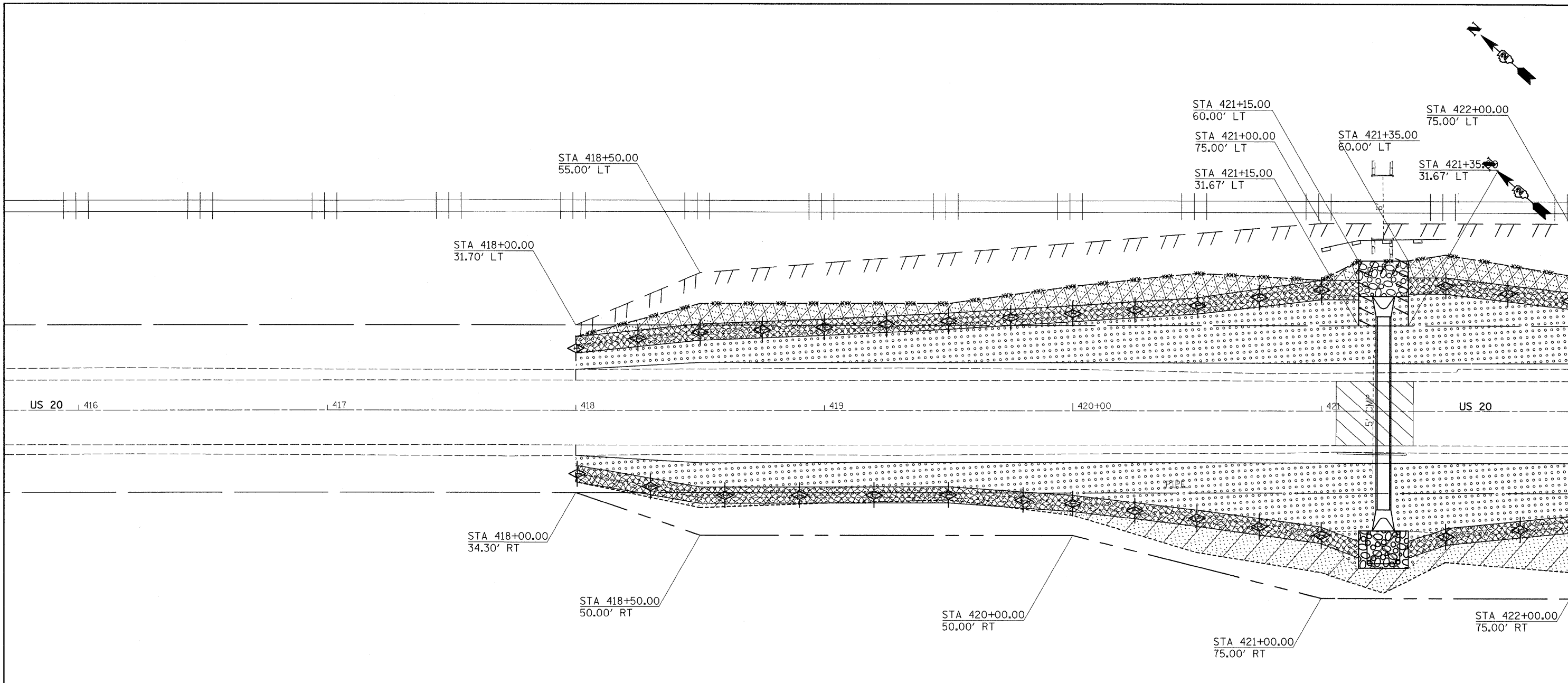
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REVISIONS	
NO.	



X = TREE REMOVAL



FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 20</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Thu Dec 04 08:06:27 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



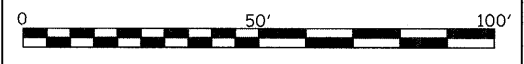
**TEMPORARY DITCH CHECK LOCATIONS**

US 20	
STA.	*OFFSET
25' INTERVALS - LT 418+00 TO 422+00	
30' INTERVALS - RT 418+00 TO 420+00	
25' INTERVALS - RT 420+00 TO 421+50	
30' INTERVALS - RT 421+50 TO 422+00	

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

**LEGEND**

- INLET PROTECTION STD 280001
- TEMPORARY DITCH CHECK
- TEMPORARY FENCE
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- CLASS 2A SEEDING
- CLASS 4 SEEDING
- CLASS 4 & 5A SEEDING



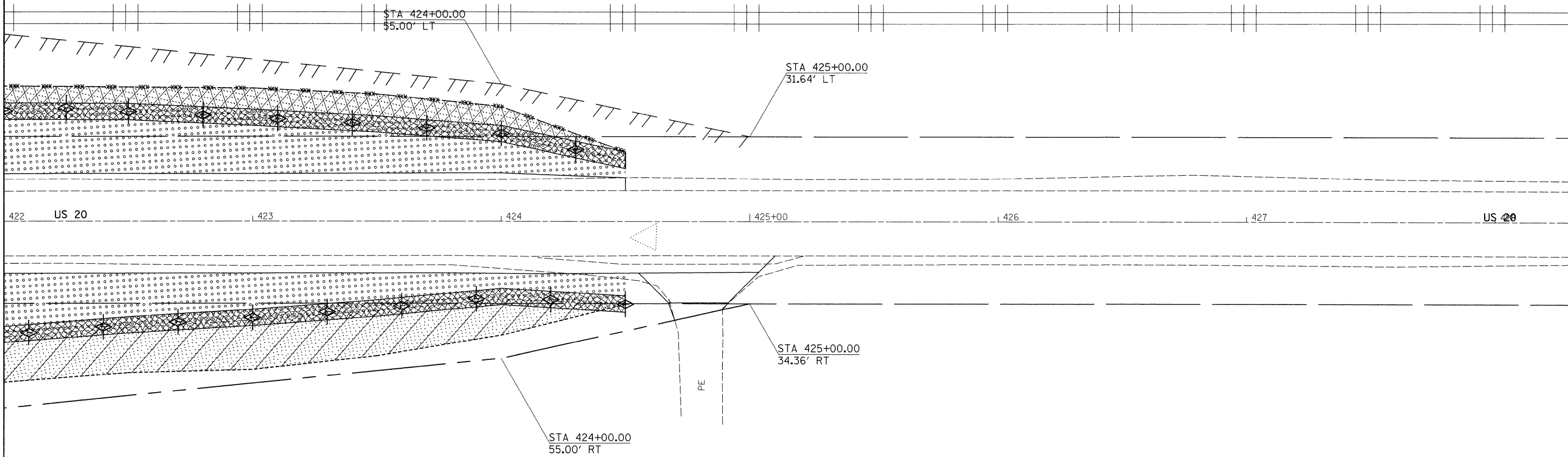
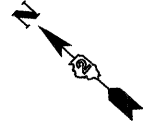
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 20  
EROSION CONTROL, SEEDING & R.O.W. DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	27
CONTRACT NO. 64C63				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



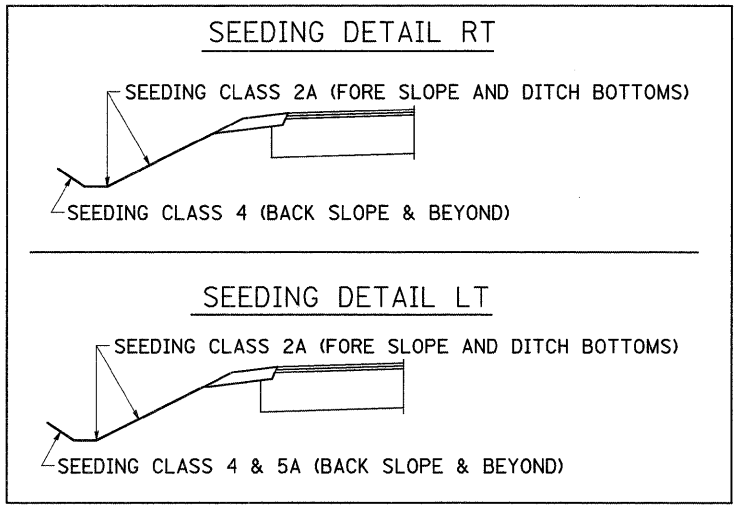
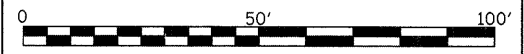
**TEMPORARY DITCH CHECK LOCATIONS**

US 20	
STA.	*OFFSET
25' INTERVALS - LT 422+00 TO 422+50	
30' INTERVALS - LT 422+50 TO 424+50	
30' INTERVALS - RT 422+00 TO 424+50	

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

**LEGEND**

- INLET PROTECTION  
STD 280001
- TEMPORARY DITCH CHECK
- TEMPORARY FENCE
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- CLASS 2A SEEDING
- CLASS 4 SEEDING
- CLASS 4 & 5A SEEDING



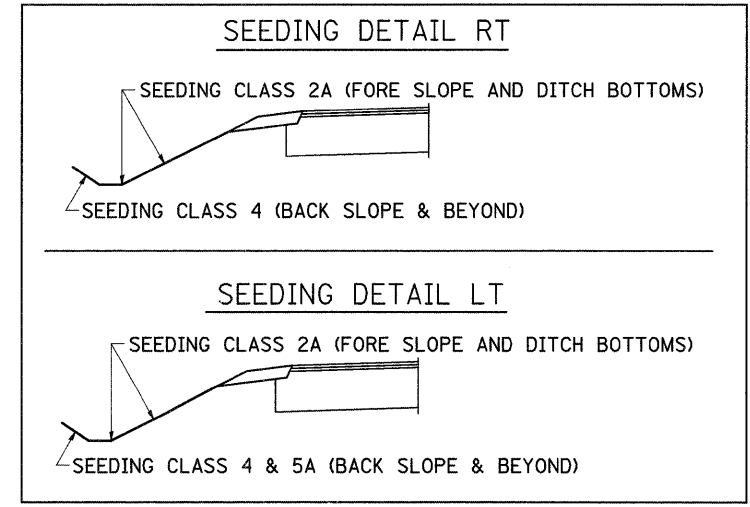
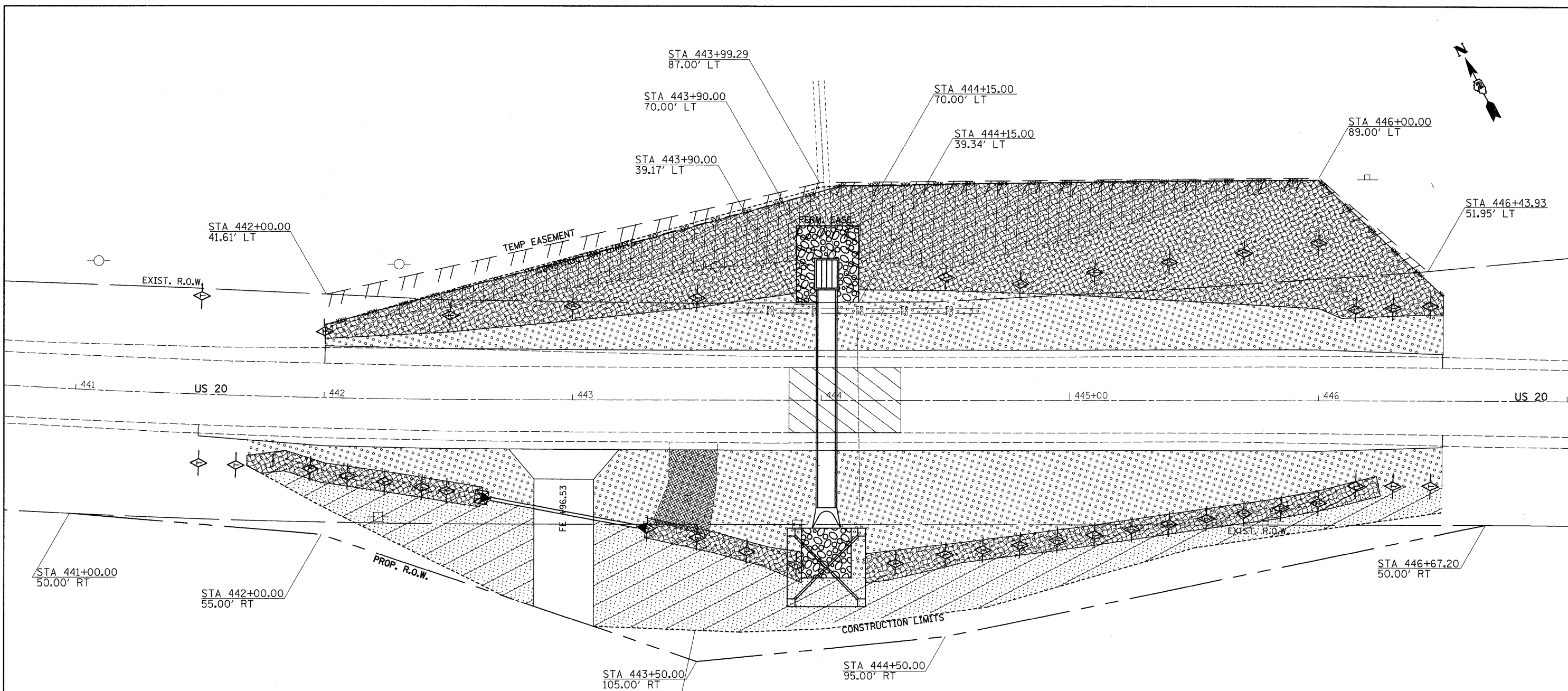
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	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = Thu Dec 04 07:50:04 2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US 20  
EROSION CONTROL, SEEDING & R.O.W. DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	28
CONTRACT NO. 64C63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TEMPORARY DITCH CHECK LOCATIONS**

US 20	
STA.	*OFFSET
50' INTERVALS - LT 441+50 TO 444+50	
30' INTERVALS - LT 444+50 TO 446+00	
15' INTERVALS - LT 446+00 TO 446+50	
15' INTERVALS - RT 441+50 TO 442+50	
20' INTERVALS - RT 442+50 TO 444+50	
15' INTERVALS - RT 444+50 TO 446+50	

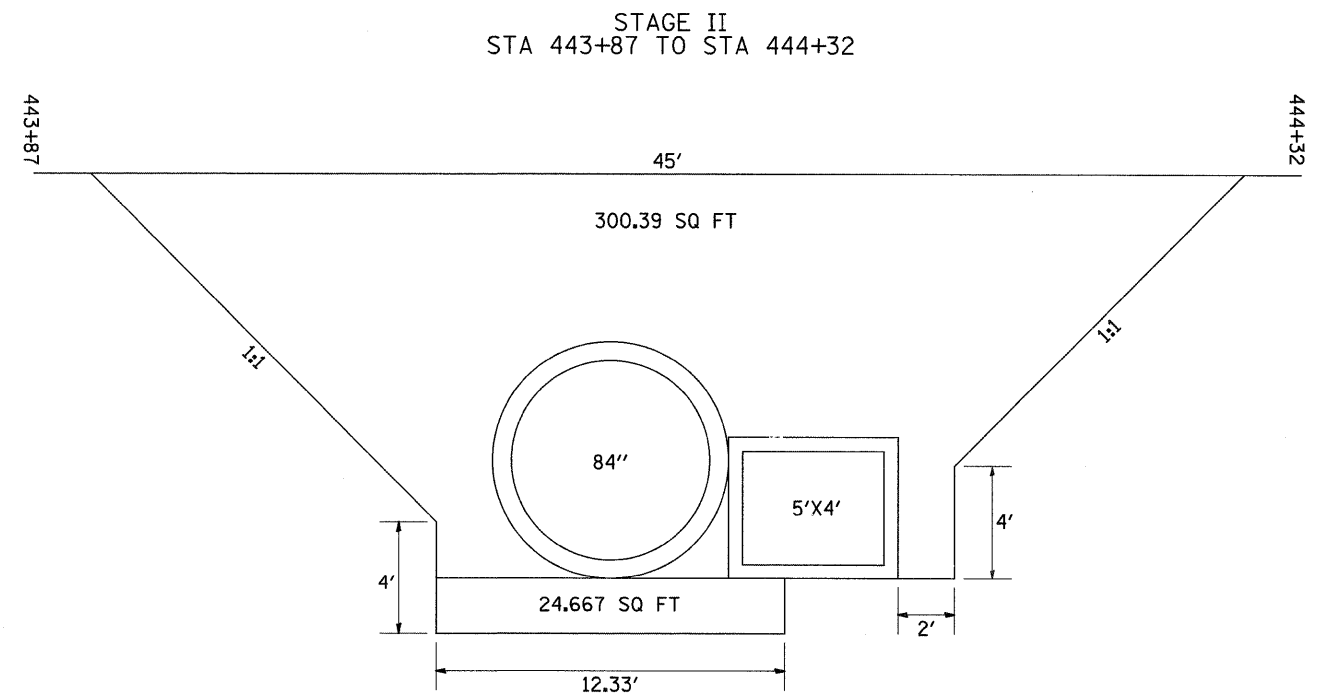
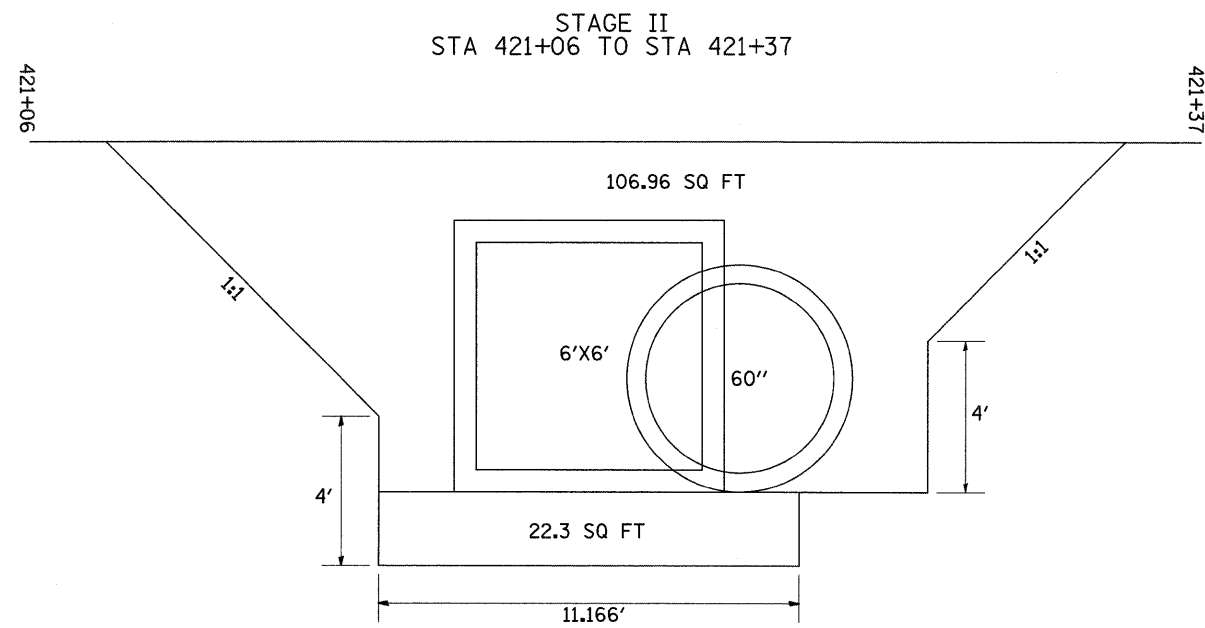
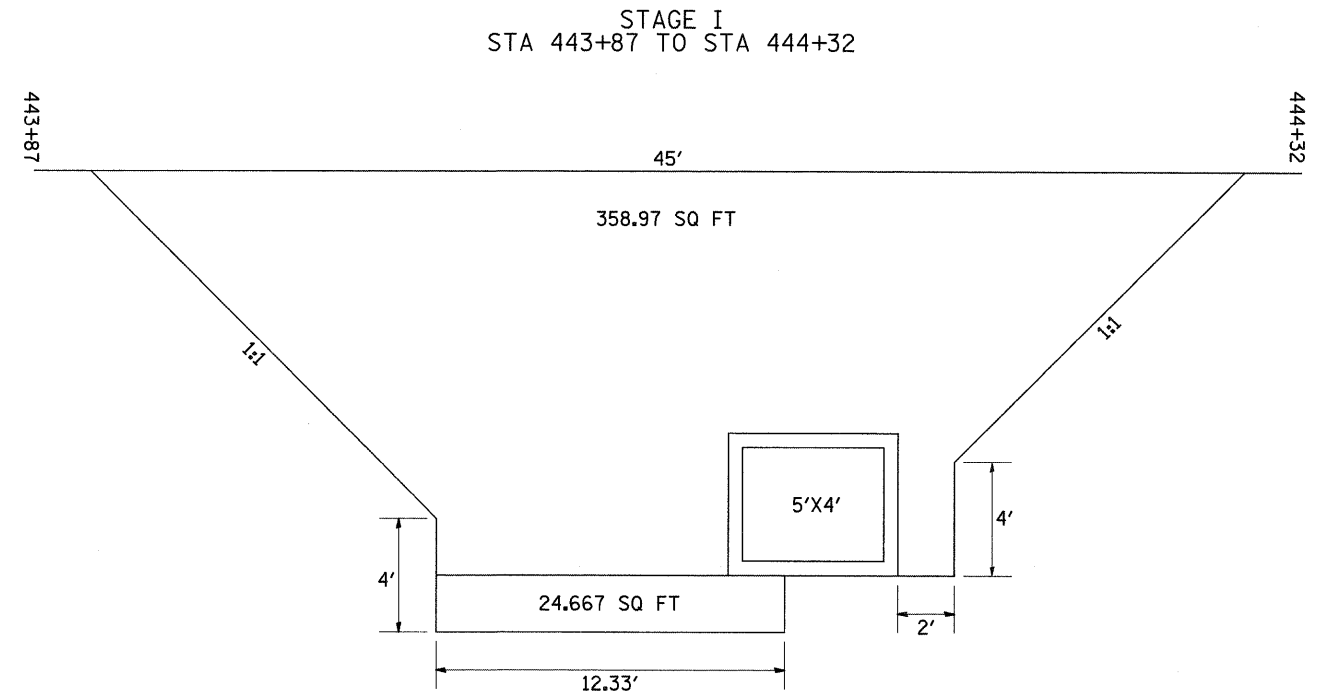
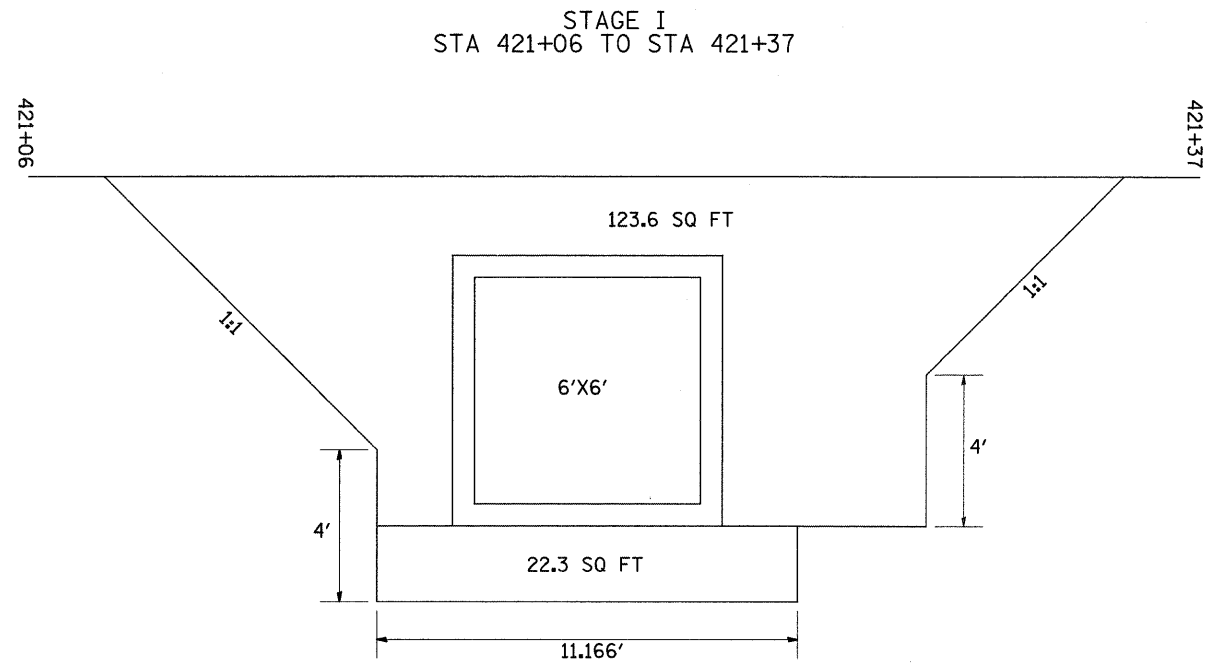
\* OFFSET LOCATIONS FOR TEMPORARY DITCH CHECKS ARE TO THE CENTER OF DITCH (SEE CROSS SECTIONS)

**LEGEND**

- INLET PROTECTION STD 280001
- TEMPORARY DITCH CHECK
- TEMPORARY FENCE
- PERIMETER EROSION BARRIER
- EROSION CONTROL BLANKET
- CLASS 2A SEEDING
- CLASS 4 SEEDING
- CLASS 4 & 5A SEEDING

0 50' 100'





NOTE: THE CULVERT AT STA 421+25 DOES NOT REQUIRE A TEMPORARY SOIL RETENTION SYSTEM - FOR INFORMATION ONLY

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USER NAME = dossdd  
Junction Box.dgn

DESIGNED -  
DRAWN -

REVISED -  
REVISED -

PLOT SCALE = 50.0000' / IN.  
PLOT DATE = Wed Dec 03 15:18:52 2008

CHECKED -  
DATE -

REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAIL  
TEMPORARY SOIL RETENTION SYSTEM

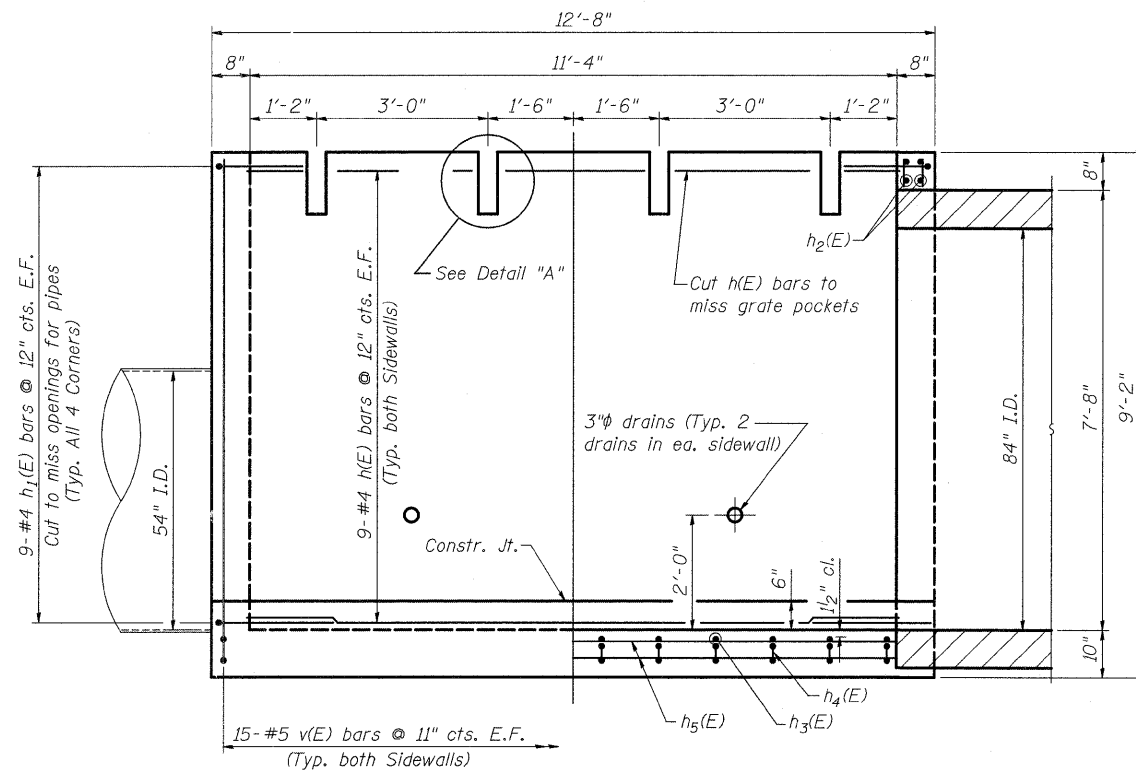
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	31
CONTRACT NO. 64C63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE: Wed Dec 03 15:18:53 2008

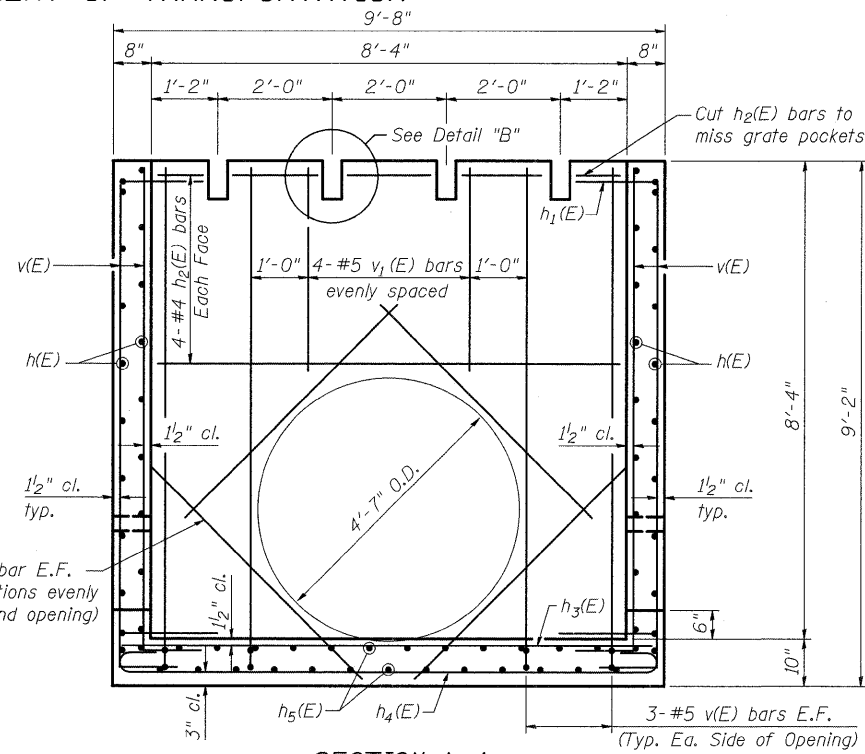
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

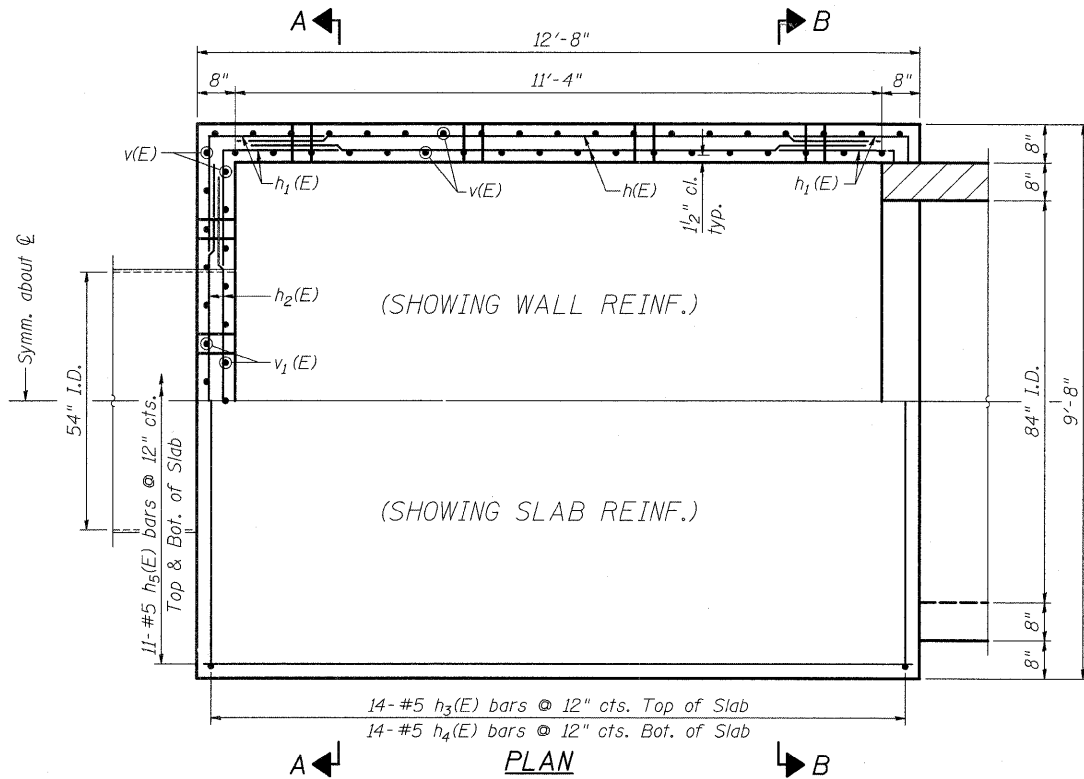


HALF ELEVATION

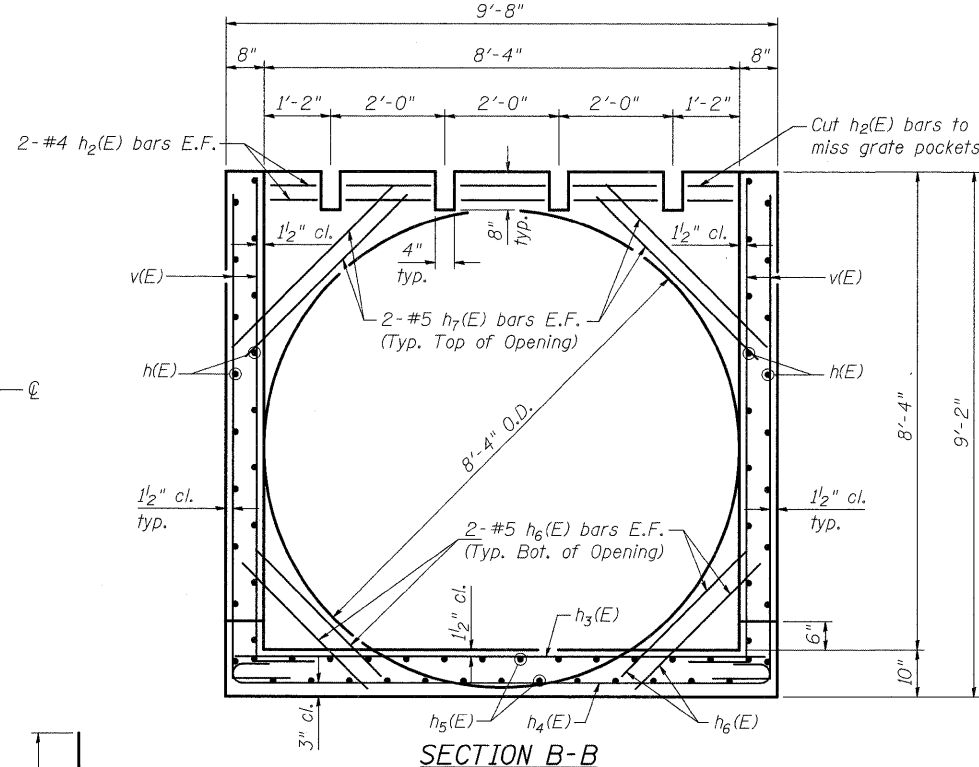
HALF LONG. SECTION



SECTION A-A



PLAN



SECTION B-B

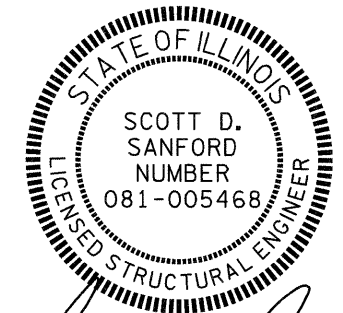
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified) See Special Provisions. The contractor shall be responsible for diverting the water flow from the construction area using a method meeting the approval of the Engineer. Cost included with "Drop Box". Drain holes shall be constructed in accordance with section 503.11.

BILL OF MATERIAL

(For information only)

Bar	No.	Size	Length	Shape
h(E)	36	#4	12'-5"	—
h1(E)	72	#4	3'-4"	—
h2(E)	12	#4	9'-5"	—
h3(E)	14	#5	9'-5"	—
h4(E)	14	#5	10'-6"	—
h5(E)	22	#5	12'-5"	—
h6(E)	8	#5	3'-1"	—
h7(E)	8	#5	3'-11"	—
h8(E)	8	#5	5'-3"	—
v(E)	36	#5	10'-6"	—
v1(E)	8	#5	3'-6"	—
Concrete Structures		Cu. Yd.	9.8	
Reinforcement Bars, Epoxy Coated		Pound	1,640	

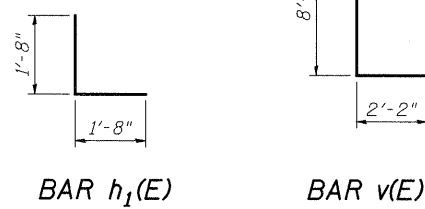


*Scott D. Sanford*  
Expires: 11/30/2010

JUNCTION BOX  
REINFORCEMENT DETAILS  
FAP ROUTE 301 (US 20)  
SECTION 21T-2  
STEPHENSON COUNTY  
S.N. 089-1110

DESIGNED - S.D.S.
CHECKED - S.D.S.
DRAWN - D.L.H.
CHECKED - S.D.S./D.L.H.

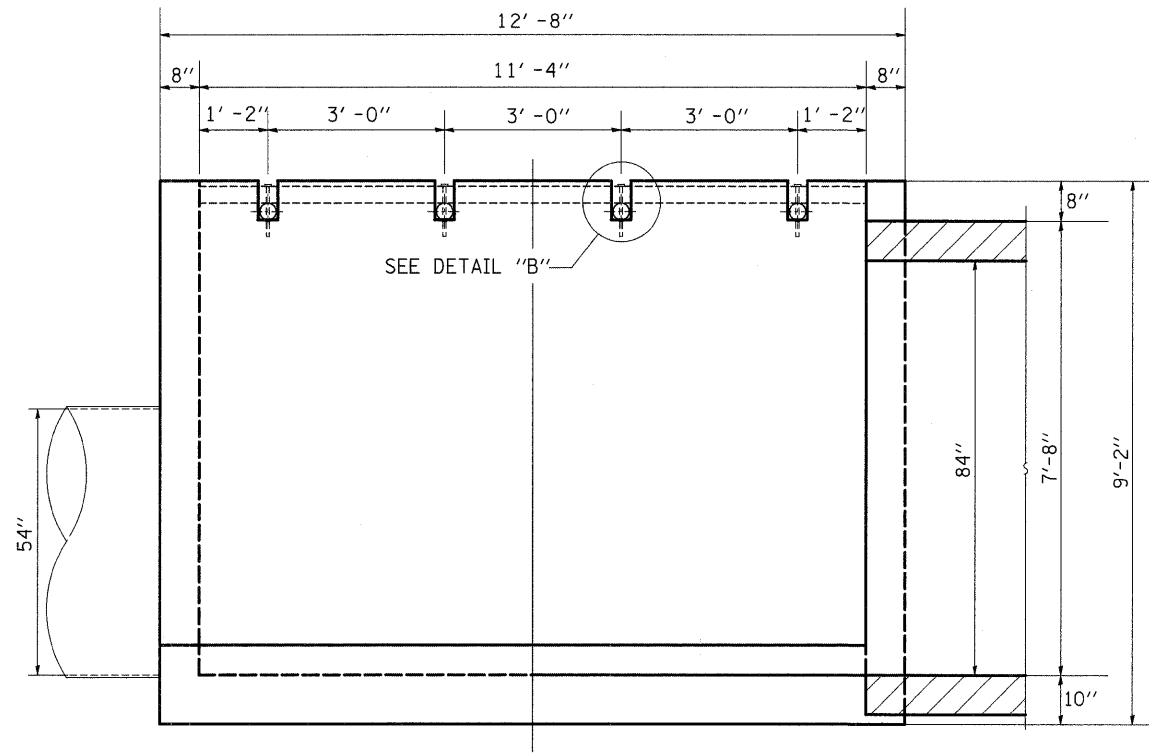
**WHKS & CO.**  
ENGINEERING  
7018 KINGSMILL CT.,  
SPRINGFIELD, IL  
(217) 483-9457  
DESIGN FIRM #184001036



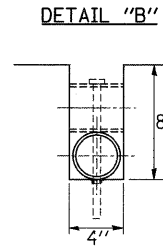
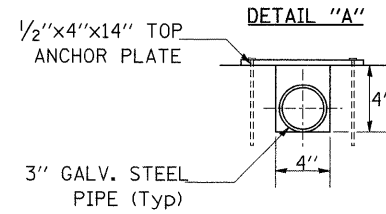
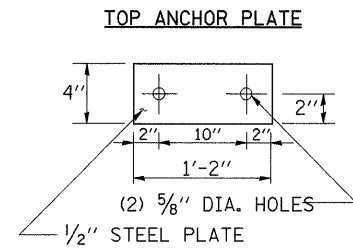
US 20  
JUNCTION BOX DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	32
S.N. 089-1110		CONTRACT NO. 64C63		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





SECTION B-B



**GENERAL NOTES**

This work shall be done according to the applicable portion of 503, 508, and 542 of the Standard Specifications.

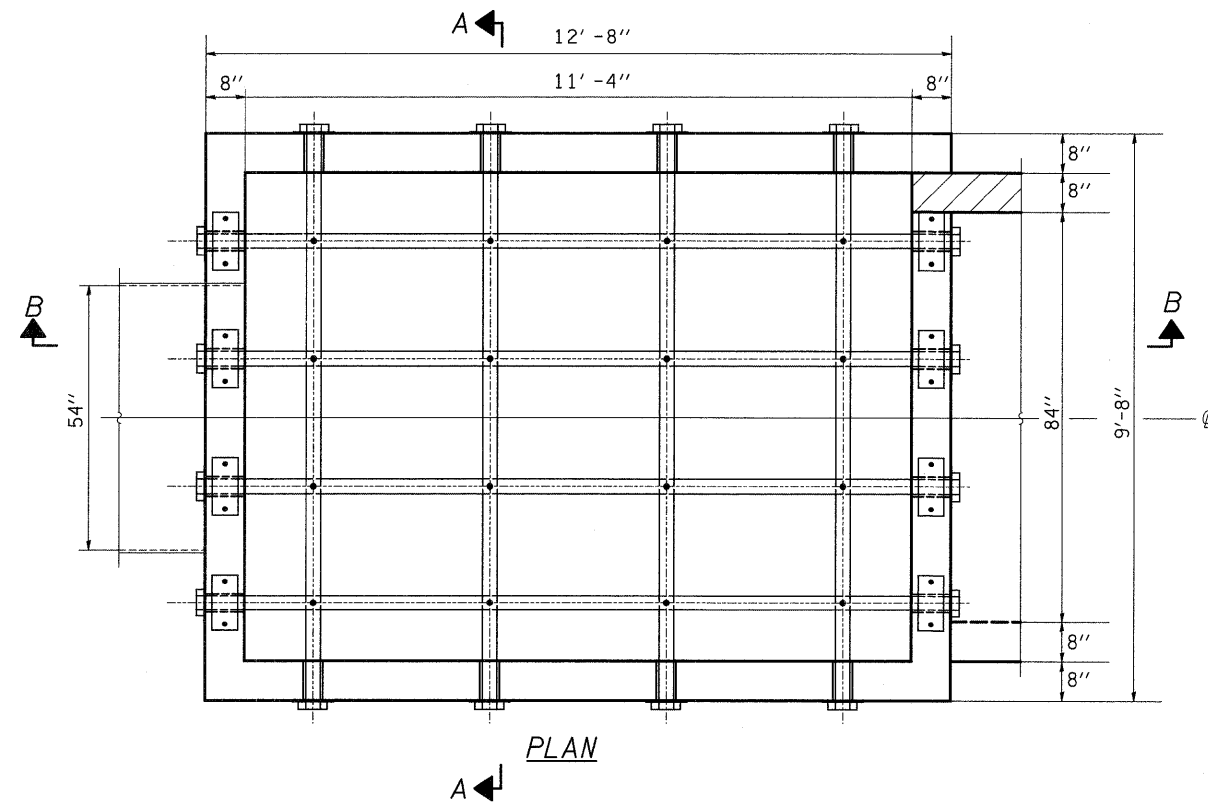
The contract unit price "each" for DROP BOX shall include the SI Concrete, Reinforcement Bars, Expansion Bolts, Galvanized Pipe, Bolts, Nuts, Washers, Steel Plates, earth excavation where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60.

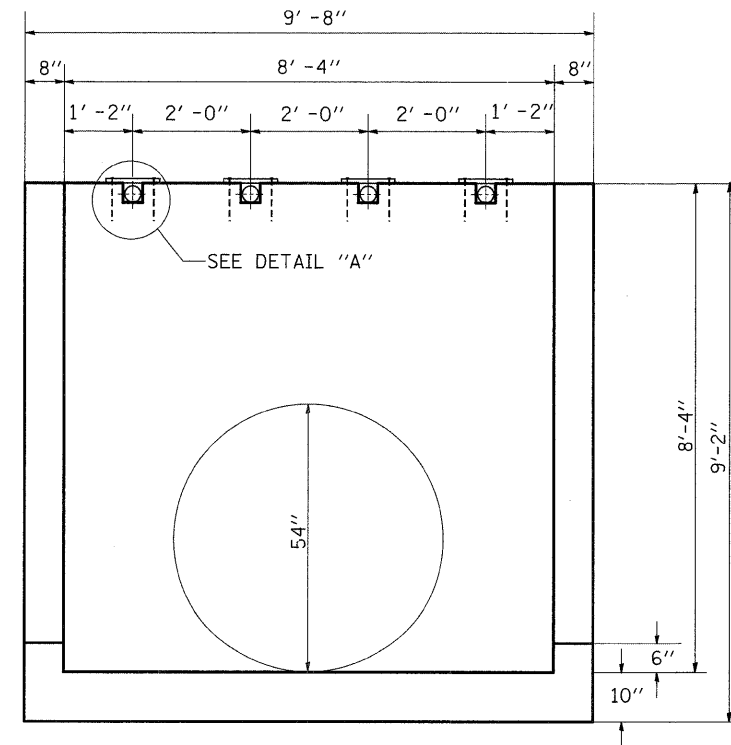
STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with Article 710.11 of the Standard Specification and shall be galvanized.

Contractor shall field verify Galvanized pipe length.



PLAN



SECTION A-A

**BILL OF MATERIAL**

DESCRIPTION	UNIT	QTY
5/8" X 9" GALV. STEEL BOLTS	EACH	32
3" GALV. STEEL PIPE @4		10'-0"
3" GALV. STEEL PIPE @4		13'-0"
3" GALV. PIPE CAPS	EACH	16
1/2" X 4" X 14" GALV. PLATE	EACH	8
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	16

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PLOT DATE = Wed Dec 03 15:18:54 2008

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DATE -

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REVISED -

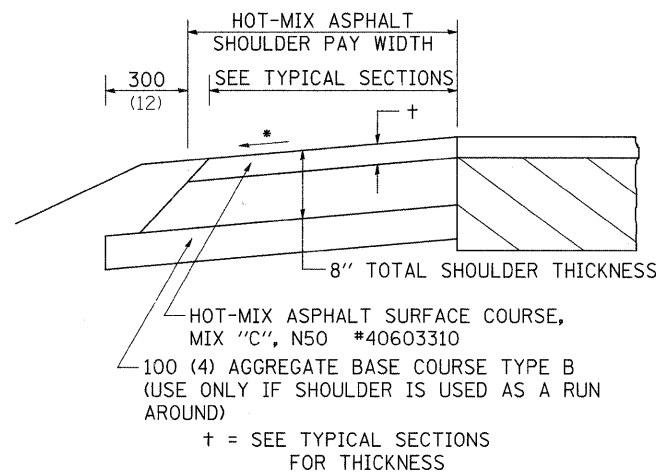
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 20  
JUNCTION BOX DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	33
CONTRACT NO. 64C63				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

# 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.

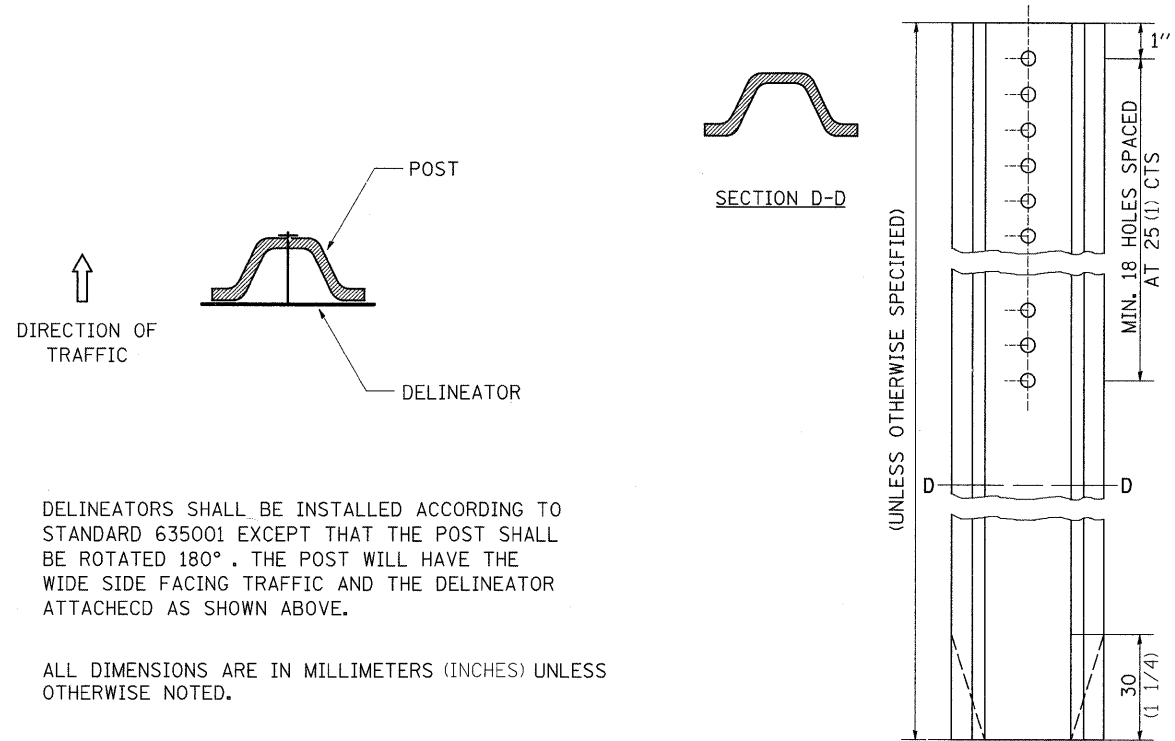
\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

**HOT-MIX ASPHALT SHOULDER 23.4a**

# DELINEATOR AND POST ORIENTATION



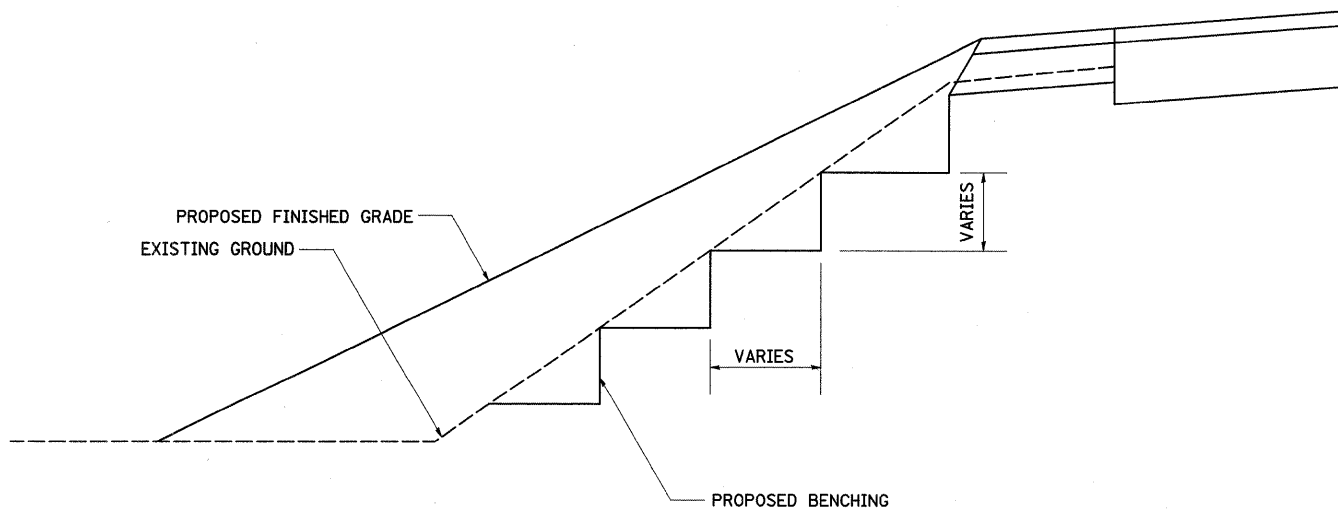
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

REVISED - 11-01-07

**DELINEATOR AND POST ORIENTATION 37.4**

# TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

**TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4**

# LETTERING FOR NAME PLATE

STATION  
BUILT 2009 BY  
STATE OF ILLINOIS  
FAP RTE. 301 SEC. 21T-2  
FA PROJECT  
LOADING HS 20  
STR. NO.

SEE STD. 515001

STATION	STRUCTURE NO.
421+25	089-1122
444+02	089-1110

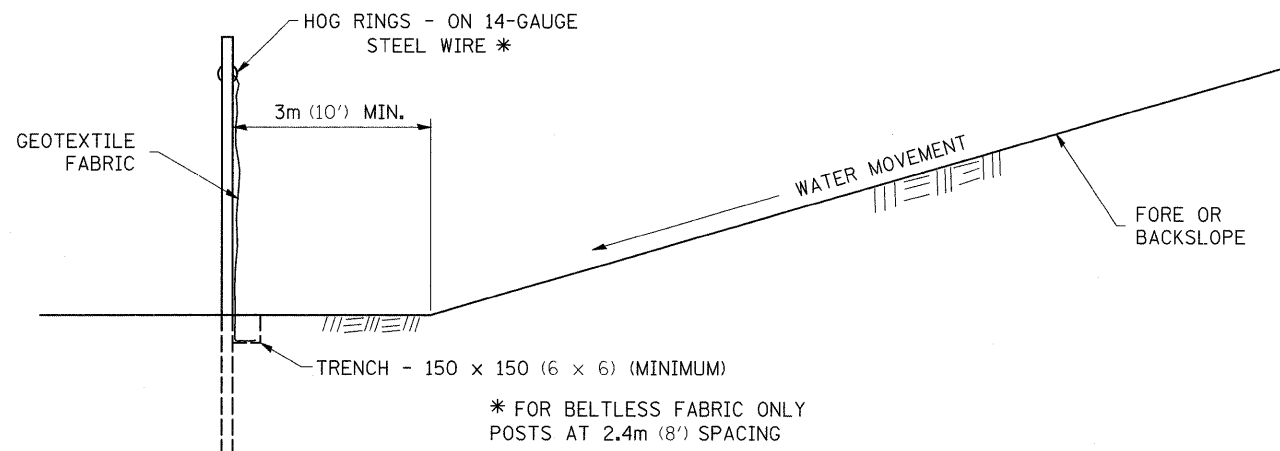
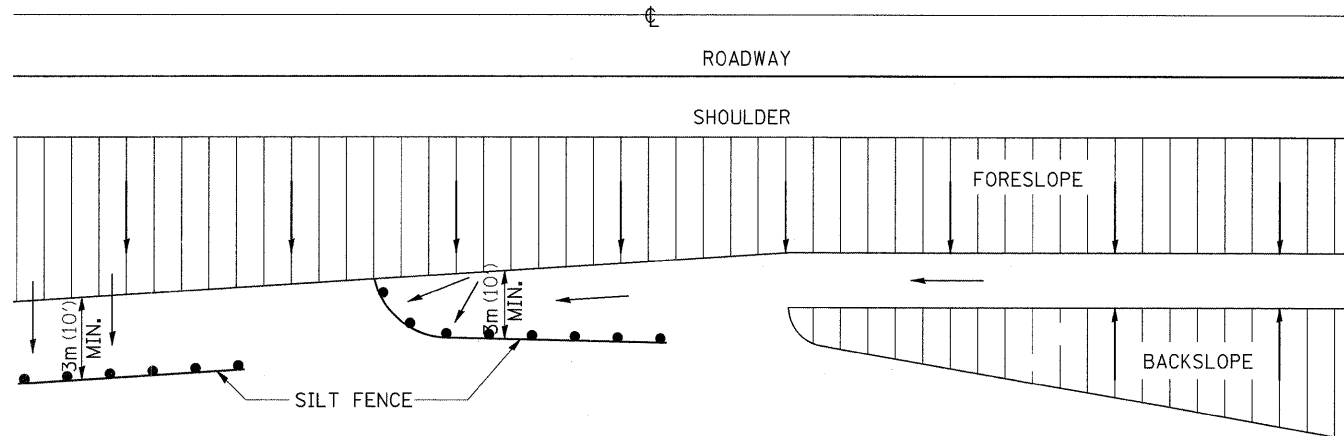
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		301	21T-2	STEPHENSON	56	34
REVISED -		CONTRACT NO. 64C63				
REVISED -		SCALE: 50.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

**LETTERING FOR NAME PLATE 89.4**



# EROSION CONTROL DETAILS FOR SILT FENCE



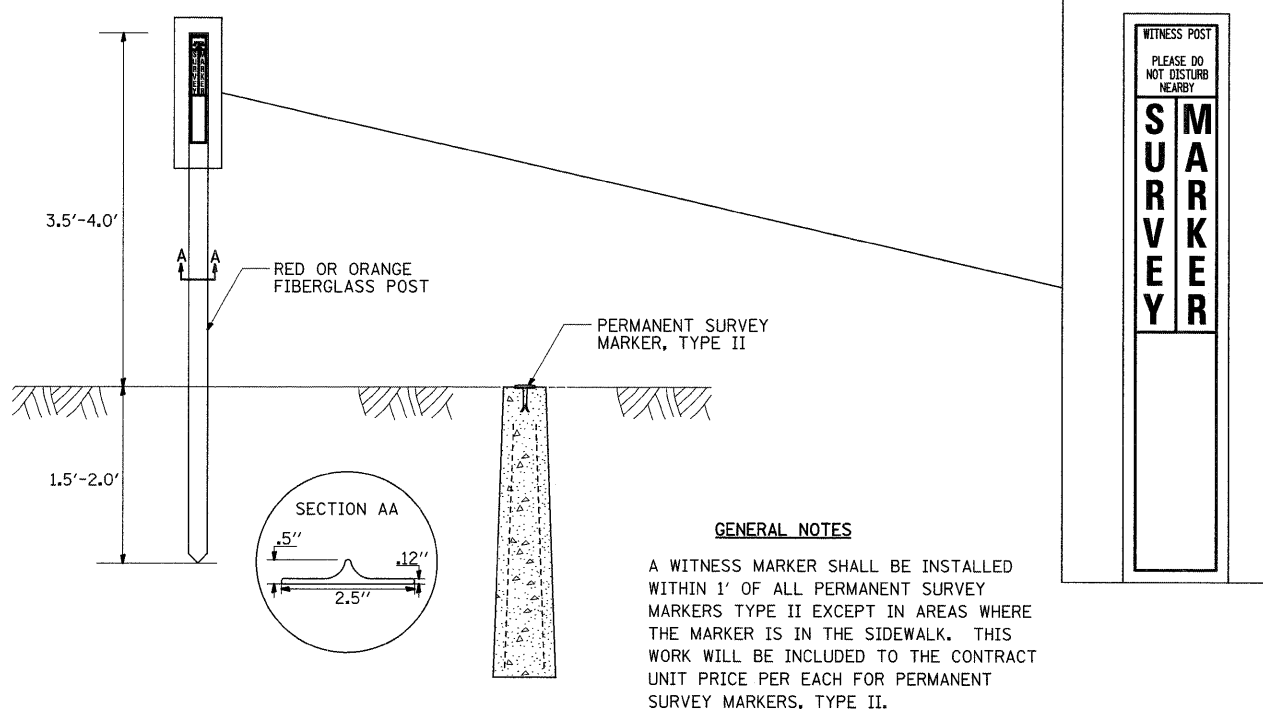
DETAILS OF SILT FENCE

\* FOR BELTLESS FABRIC ONLY  
POSTS AT 2.4m (8') SPACING

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

REVISED - 10-22-01

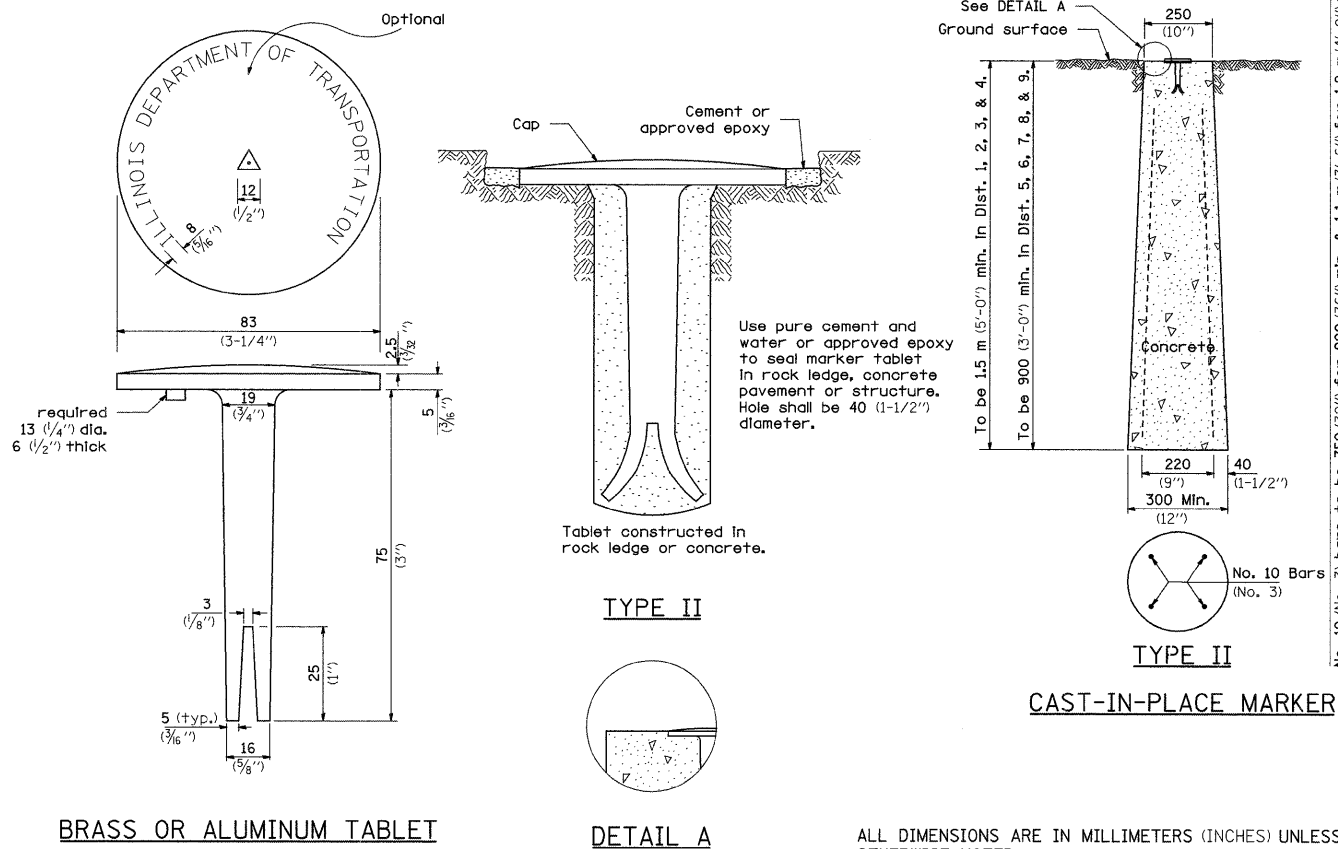
# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



**GENERAL NOTES**

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

# PERMANENT SURVEY MARKERS, TYPE II



BRASS OR ALUMINUM TABLET

DETAIL A

TYPE II

TYPE II

CAST-IN-PLACE MARKER

Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 40 (1-1/2") diameter.

See DETAIL A

Ground surface

To be 15 m (5'-0") min. In Dist. 1, 2, 3, & 4.

To be 900 (3'-0") min. In Dist. 5, 6, 7, 8, & 9.

No. 10 (No. 3) bars to be 750 (30") for 900 (36") min. & 1.1 m (3'-6") for 1.2 m (4'-0") min.

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

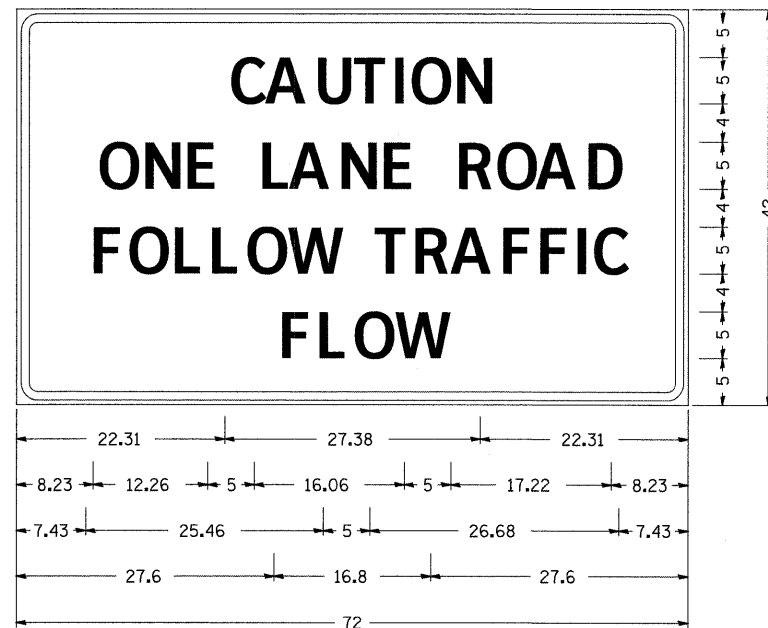
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REGION 2 / DISTRICT 2 STANDARD

SCALE: 50,000' IN SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	36
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C63	

# 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	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													
	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
	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				
	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

REVISED -	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		301	21T-2	STEPHENSON	56	37
REVISED -		CONTRACT NO. 64C63				
REVISED -		SCALE: 50,0000' / IN.	SHEET NO.	OF	SHEETS	STA.

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

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

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

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

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

**SITE DESCRIPTION**

**DESCRIPTION OF CONSTRUCTION ACTIVITY:**

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF BOX CULVERTS LOCATED 0.2 MILE NORTHWEST OF SALEM ROAD AND 0.3 MILE EAST OF DAMEIER ROAD ALONG US 20 NEAR ELROY.

**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) 2.95 ACRES  
PROPOSED R.O.W (TOTAL PARCEL AREA) 0.74 ACRES  
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.33 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

UNNAMED TRIBUTARY TO YELLOW CREEK

**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:**

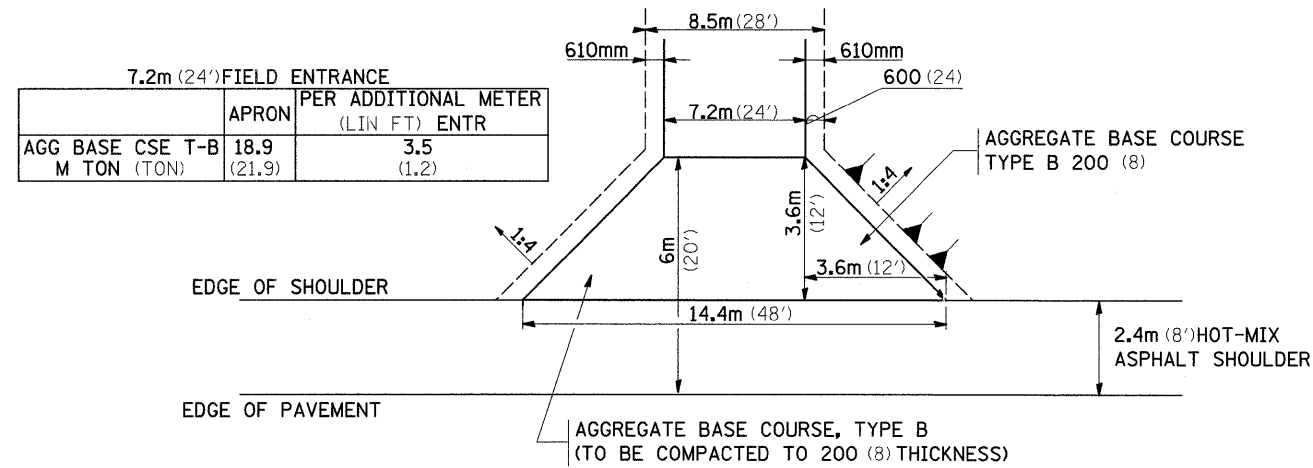
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING 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 = dssedd	DESIGNED -	REVISED - 5-12-04	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\pw\dot\dossdd\dms34371\IL 73	Junction Box.dgn	DRAWN -	REVISED -			301	21T-2	STEPHENSON	56	38	
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	PLOT DATE = Wed Dec 03 15:18:55 2008	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 64C63					

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

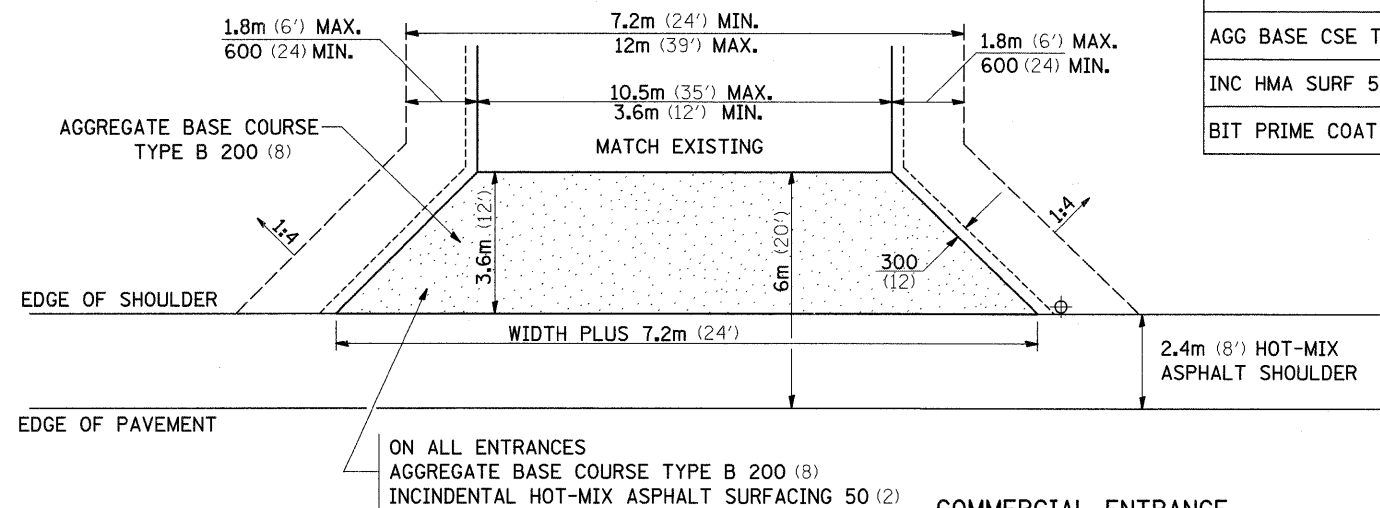


**FIELD ENTRANCE**

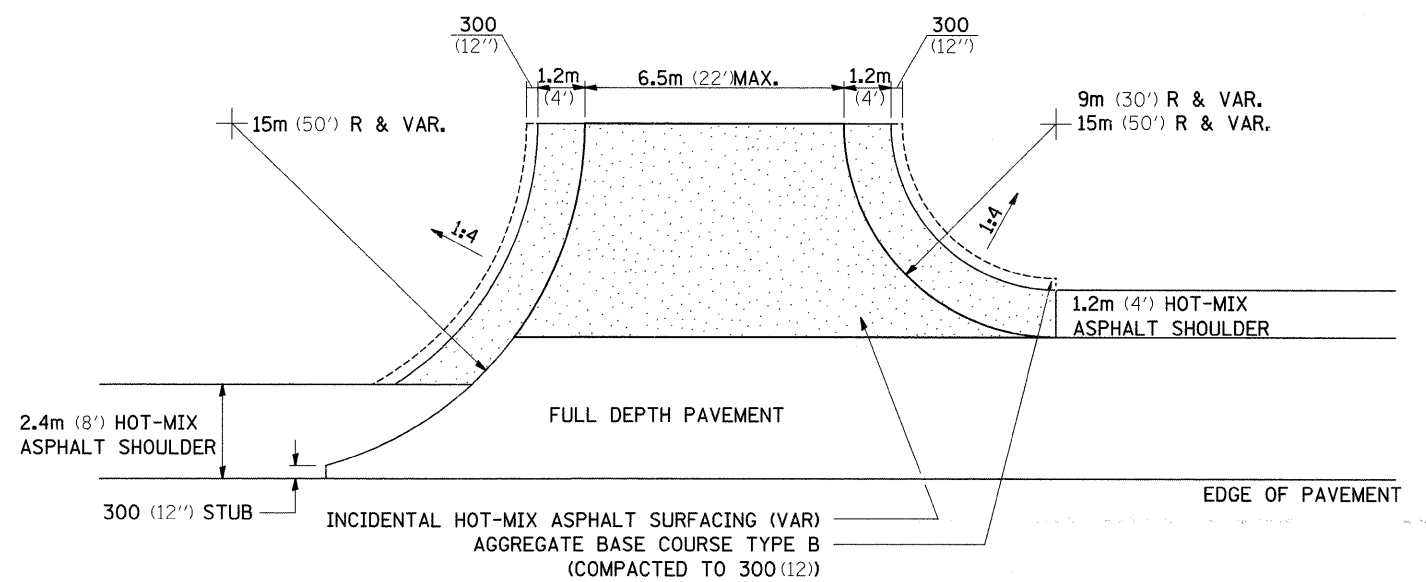
	COMMERCIAL ENTRANCE		PER METER ENTR (FOOT)	
	3.6m (12')	10.5m (35')	3.6m (12')	10.5m (35')
AGG BASE CSE T-B (TON)	14.3 (15.8)	27.0 (29.8)	0.64 (0.70)	1.70 (1.87)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	6.35 (7.0)	0.14 (0.15)	0.40 (0.44)
BIT PRIME COAT (TON)	0.042 (0.046)	0.082 (0.090)	0.002 (0.002)	0.005 (0.006)

**NOTE**

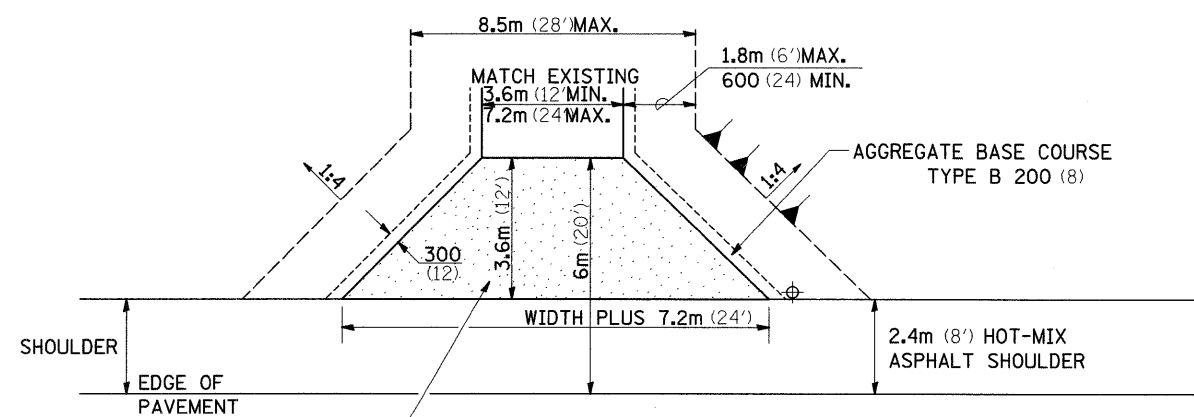
- ① ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ② FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- ③ QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE 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.



**COMMERCIAL ENTRANCE**



**SIDE ROAD RETURN**



**PRIVATE ENTRANCE**

	3.6m (12') PRIVATE ENTRANCE		PER METER ENTR (FOOT)	
	3.6m (12')	7.2m (24')	3.6m (12')	7.2m (24')
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)	1.20 (1.32)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)	0.27 (0.30)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)	0.004 (0.004)

ON ALL ENTRANCES  
AGGREGATE BASE COURSE TYPE B  
(TO BE COMPACTED TO 200 (8) THICKNESS)  
INCIDENTAL HOT-MIX ASPHALT SURFACING 50 (2)

FILE NAME =  
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USER NAME = dossdd  
Junction Box.dgn  
PLOT SCALE = 50.0000' / IN.  
PLOT DATE = Wed Dec 03 15:18:56 2008

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DATE -

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

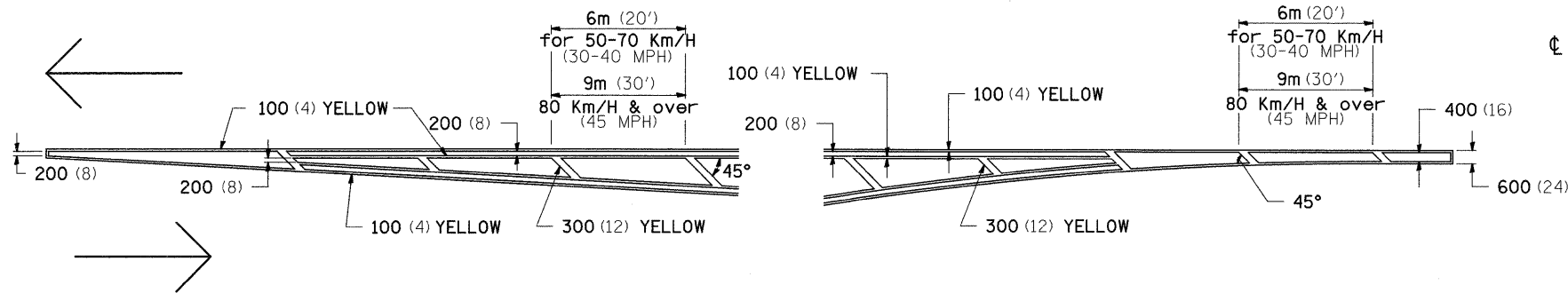
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	39
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64C63				



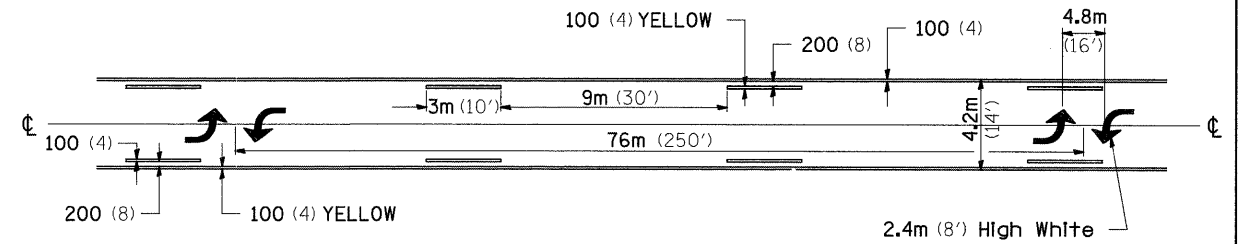


# TYPICAL PAVEMENT MARKINGS

## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

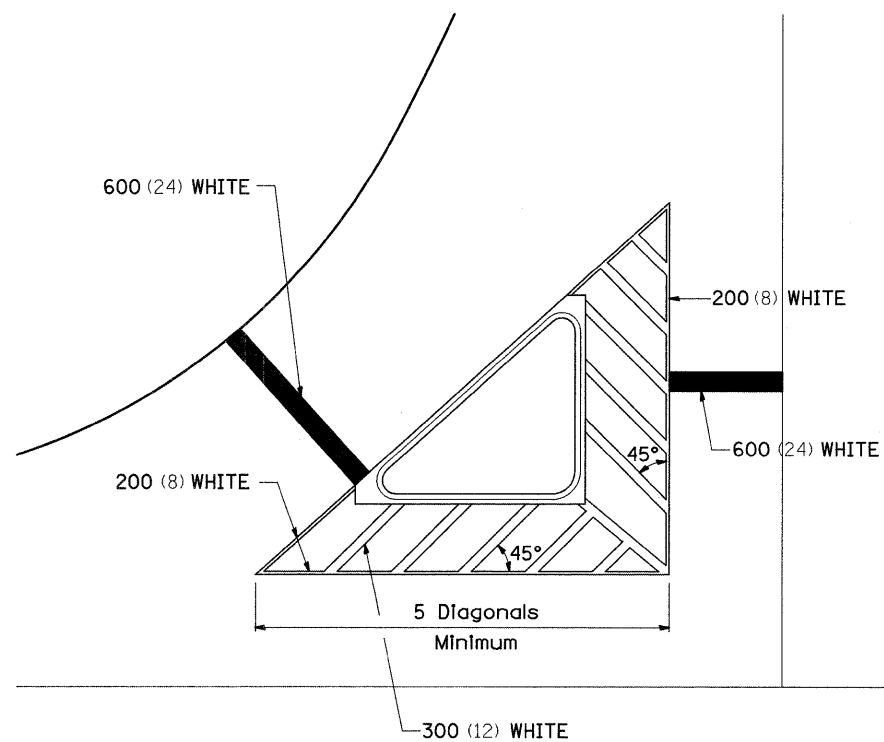


## MEDIAN PAVEMENT MARKING

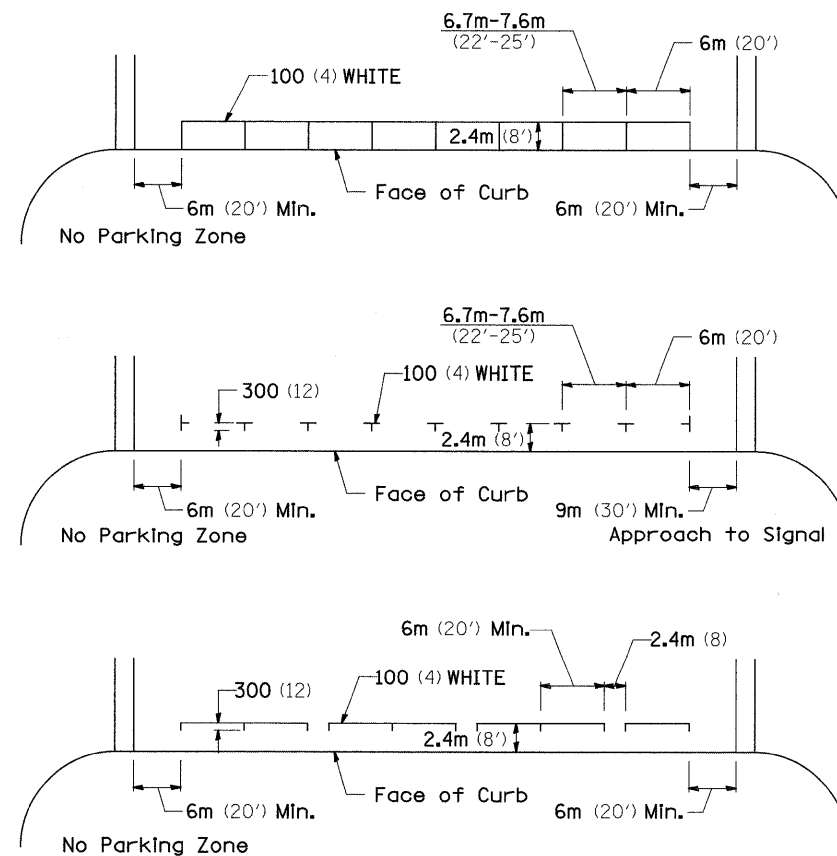


•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

## TYPICAL ISLAND OFFSET SHOULDER WIDTH

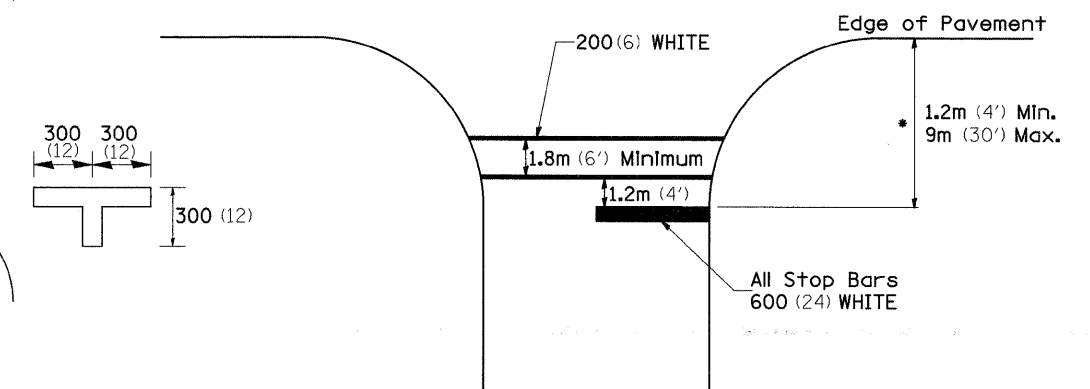


## TYPICAL PARKING SPACING



## STANDARD CROSSWALK MARKING

See Schedules for Locations

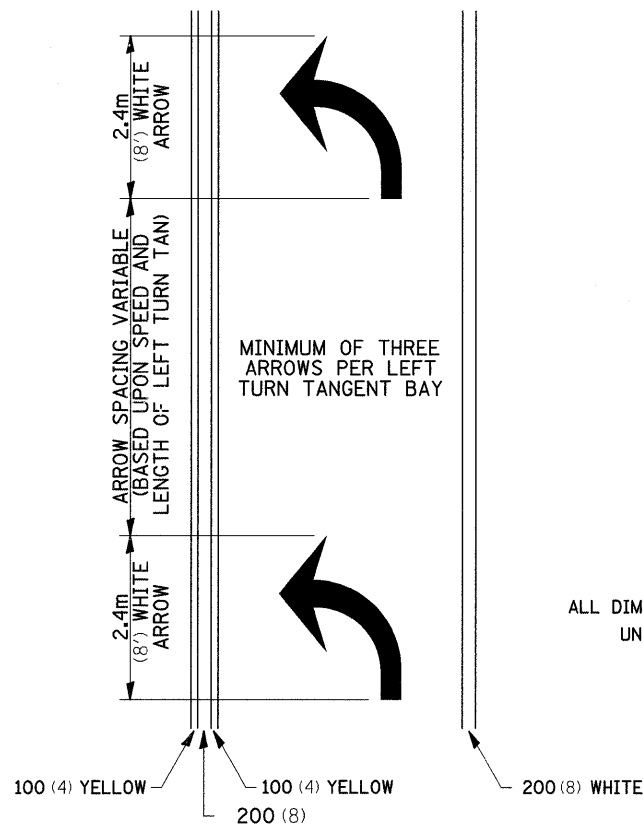


\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 10-21-08	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REGION 2 / DISTRICT 2 STANDARD</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = Wed Dec 03 15:10:57 2008	DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							

# TYPICAL PAVEMENT MARKINGS

## ARROW LAYOUT

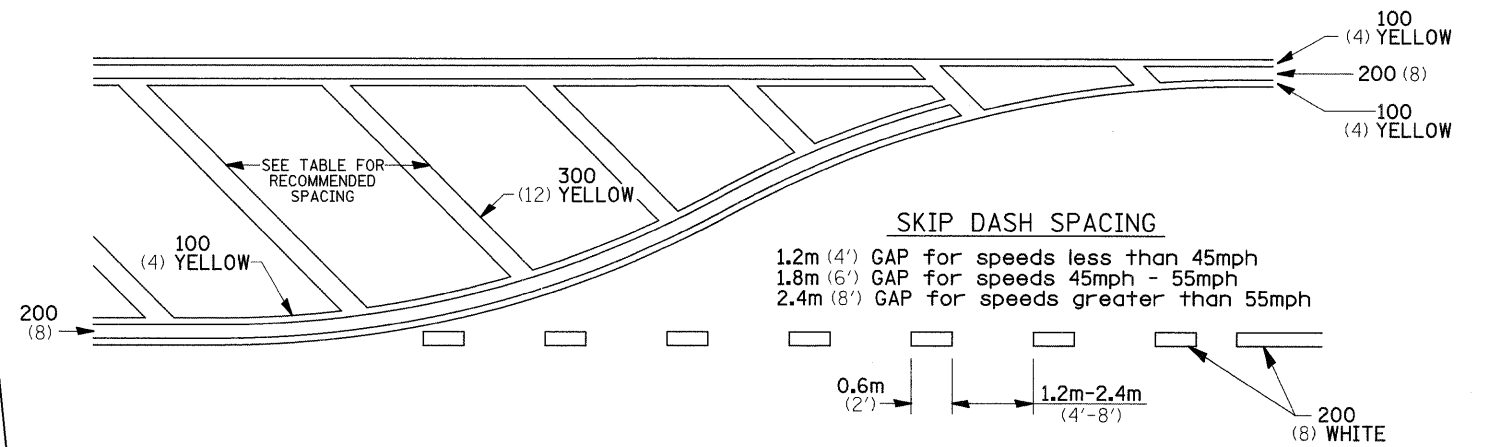


- ▲ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

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

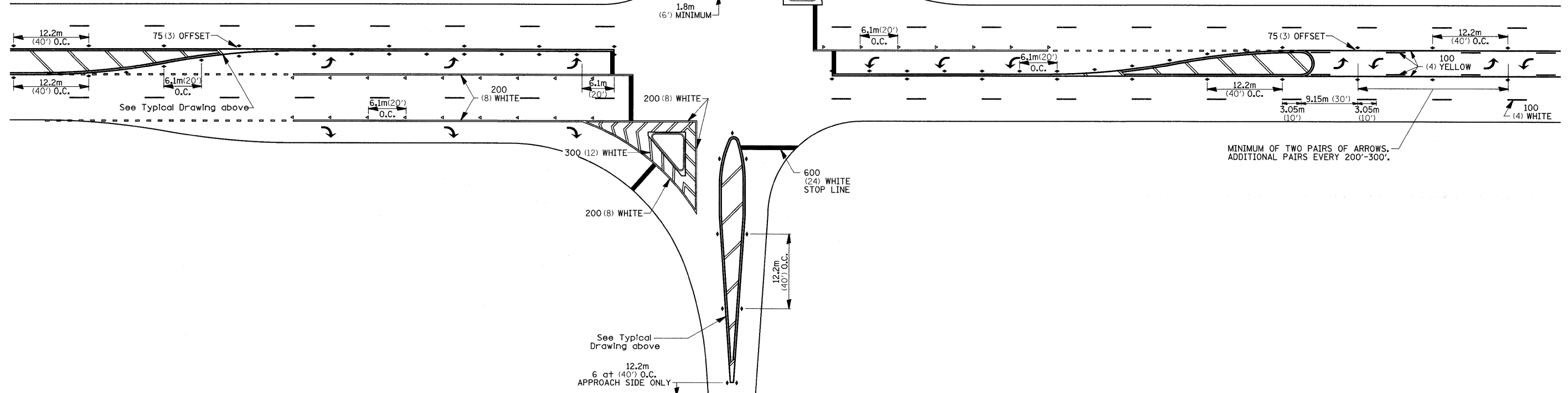
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

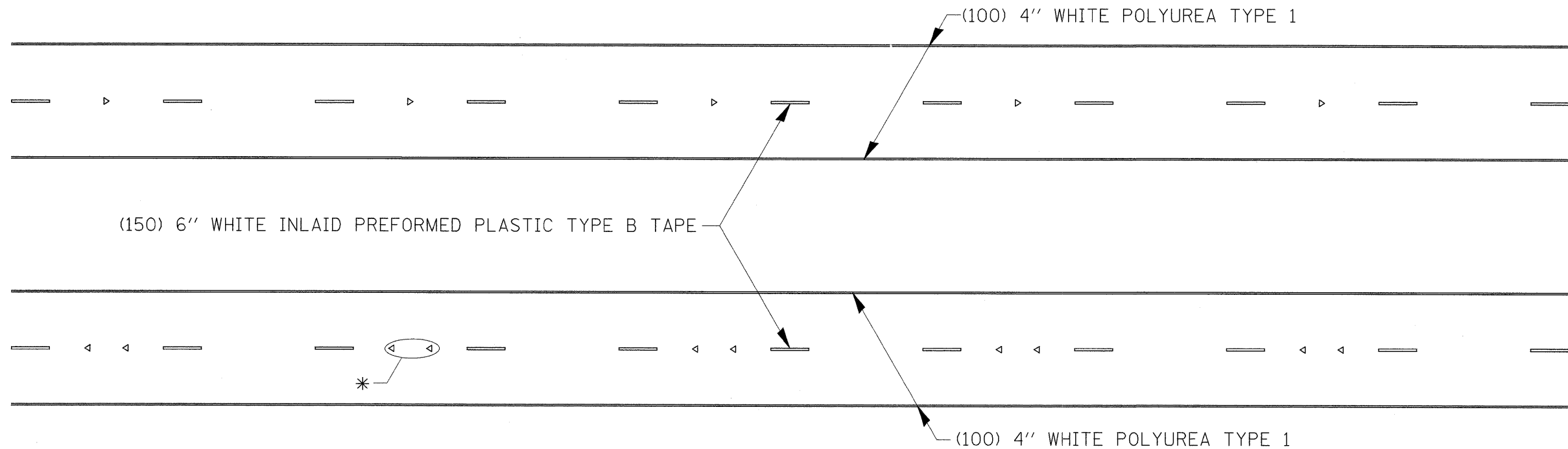
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

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.



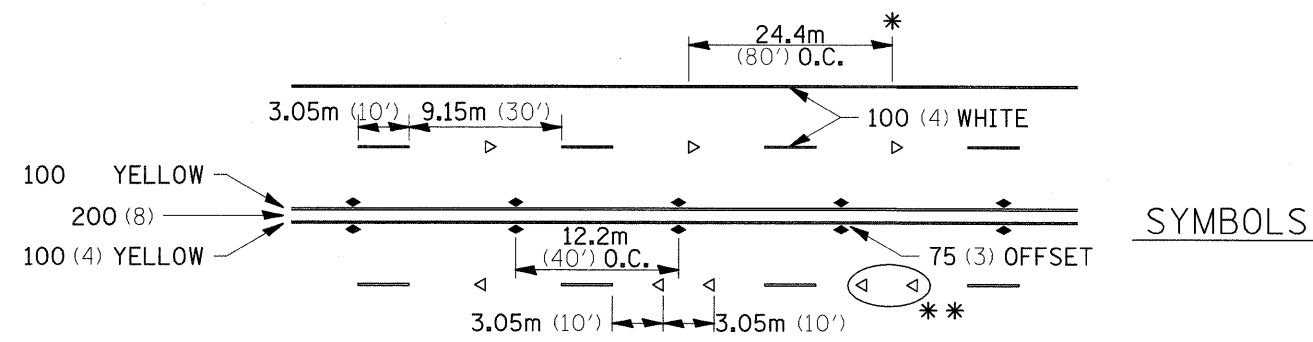
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ct\pw_work\pwsdot\dosadd\dms3437\11L 73	Junction Box.dgn	DRAWN -	REVISED -			301	21T-2	STEPHENSON	56	42	
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	PLOT DATE = Wed Dec 03 15:18:57 2008	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

# TYPICAL PAVEMENT MARKINGS



\* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.  
USE DOUBLE MARKERS WHEN ADT  $\geq$  25,000.

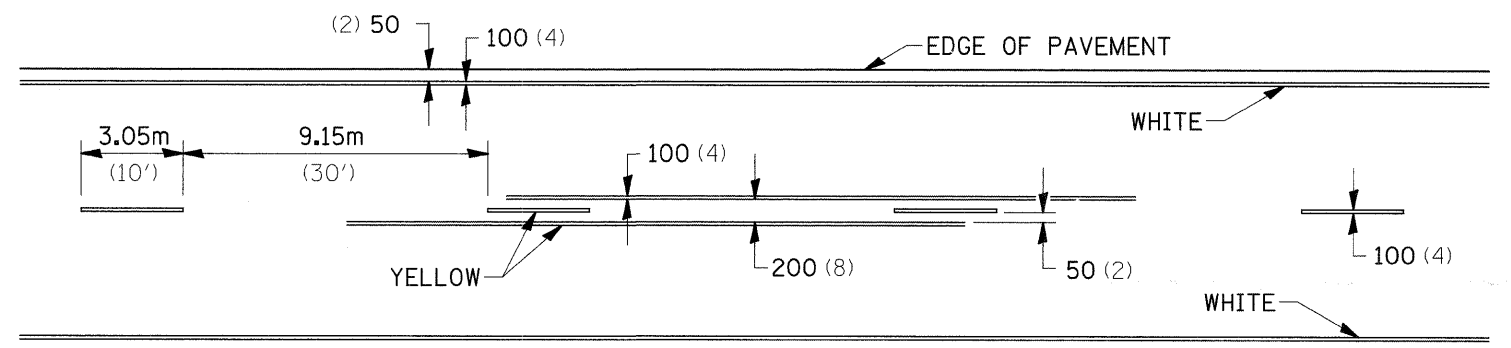
## MULTI-LANE / DIVIDED



\* 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  $\geq$  25,000

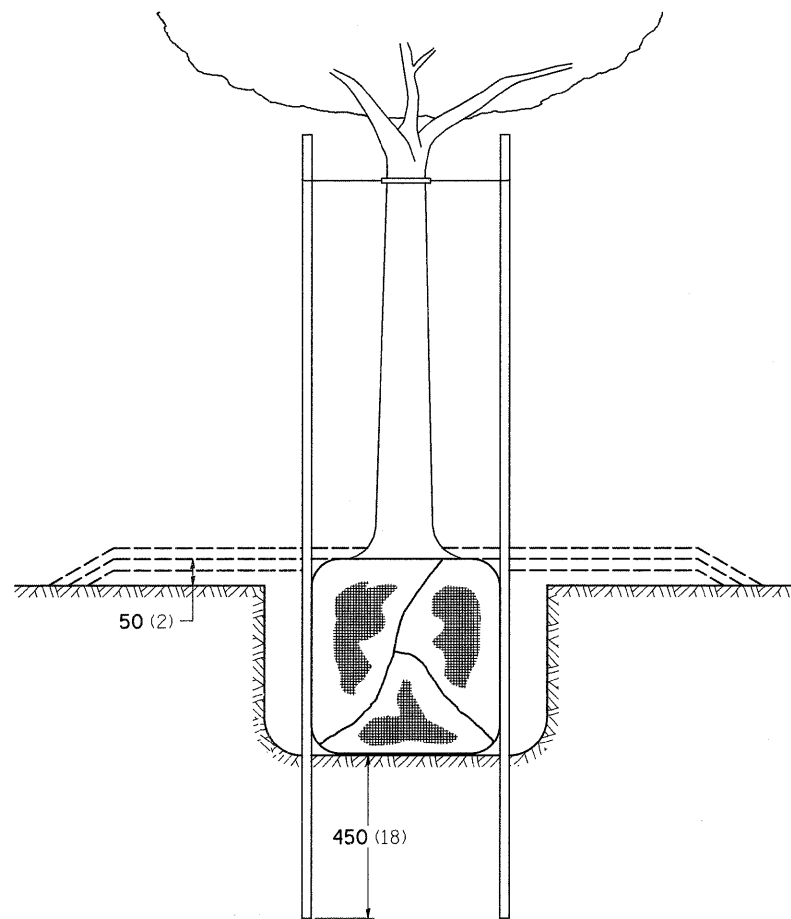
## MULTI-LANE / UNDIVIDED

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES

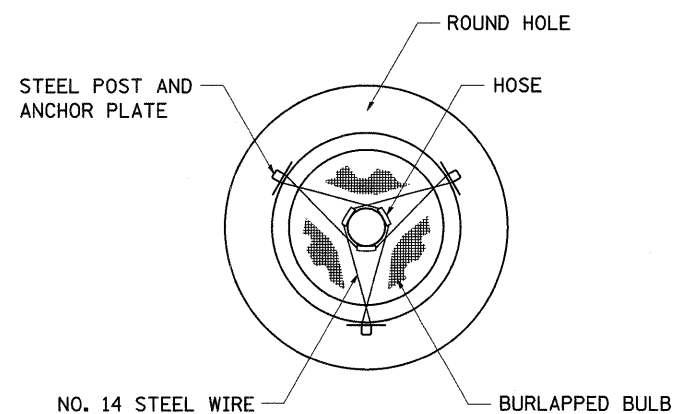


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cr\pw_work\pwsdot\dosddd\dms34371\IL 73 Junction Box.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	301	21T-2	STEPHENSON	56	43
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		DATE -	REVISED -						ILLINOIS FED. AID PROJECT					

# DETAILS OF PLANTING AND BRACING TREES

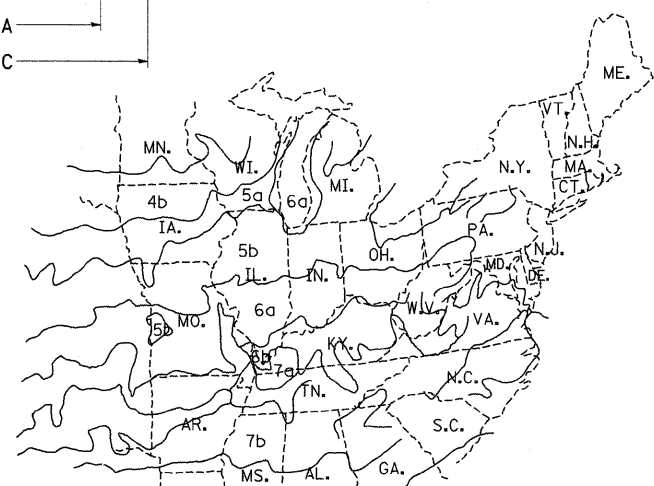
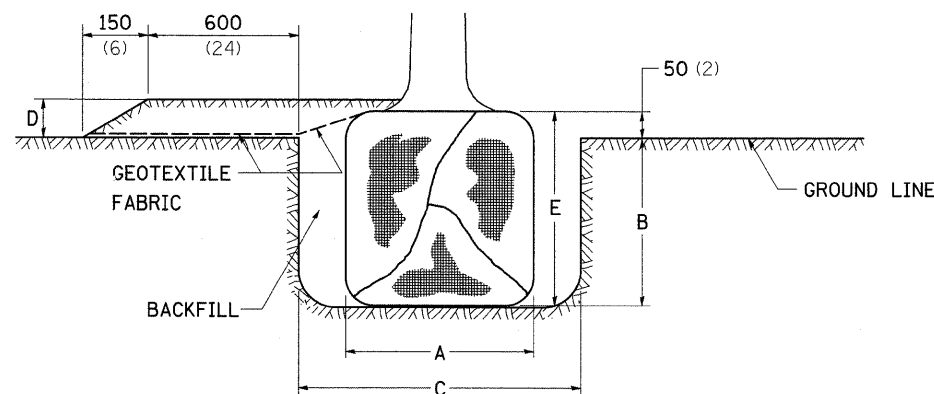


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

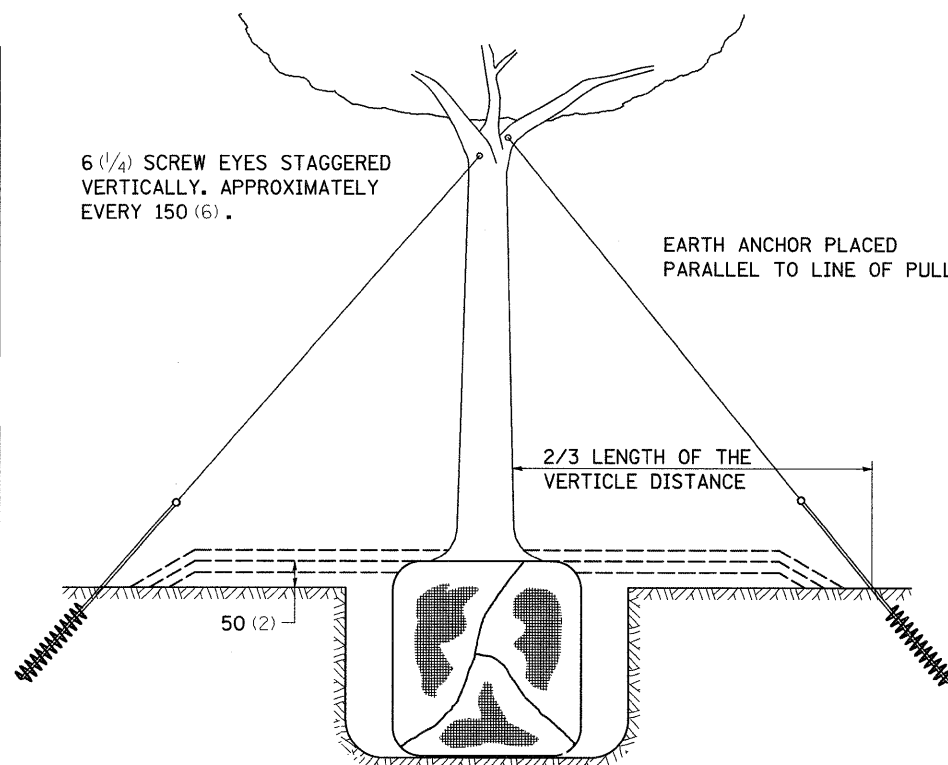


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB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

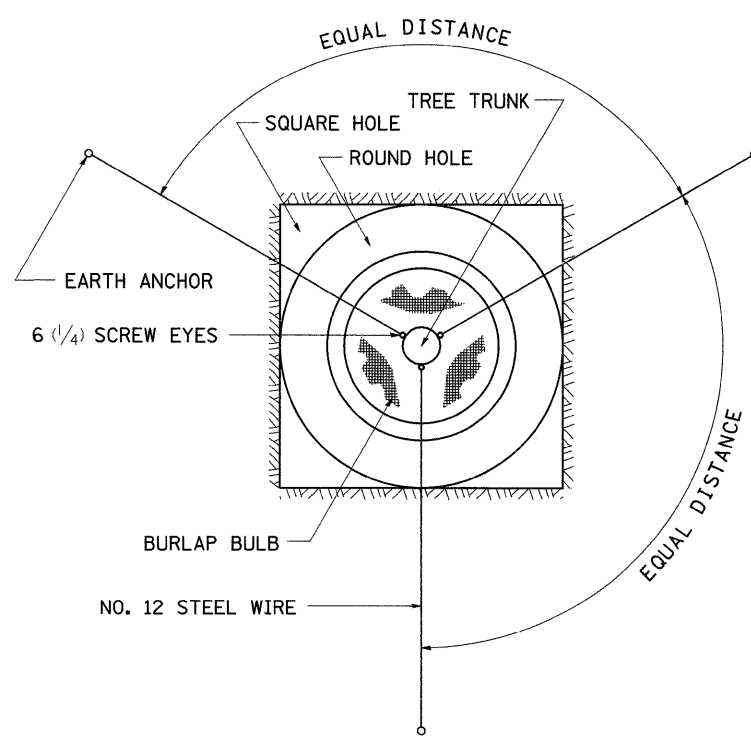
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)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



PLANT HARDINESS ZONE MAP  
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



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

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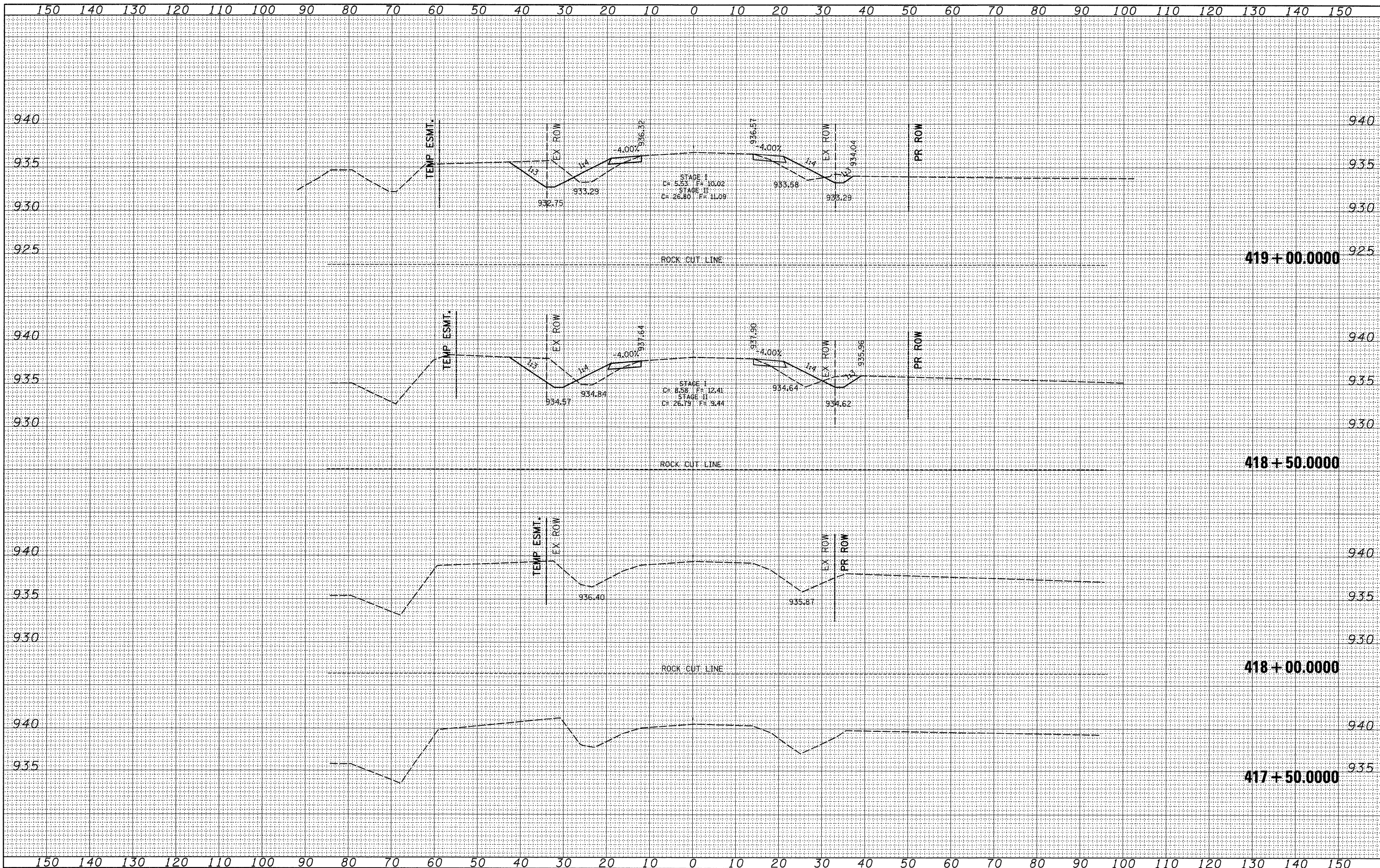
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	44
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64C63	

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NOTE BOOK	
AREAS CHECKED	

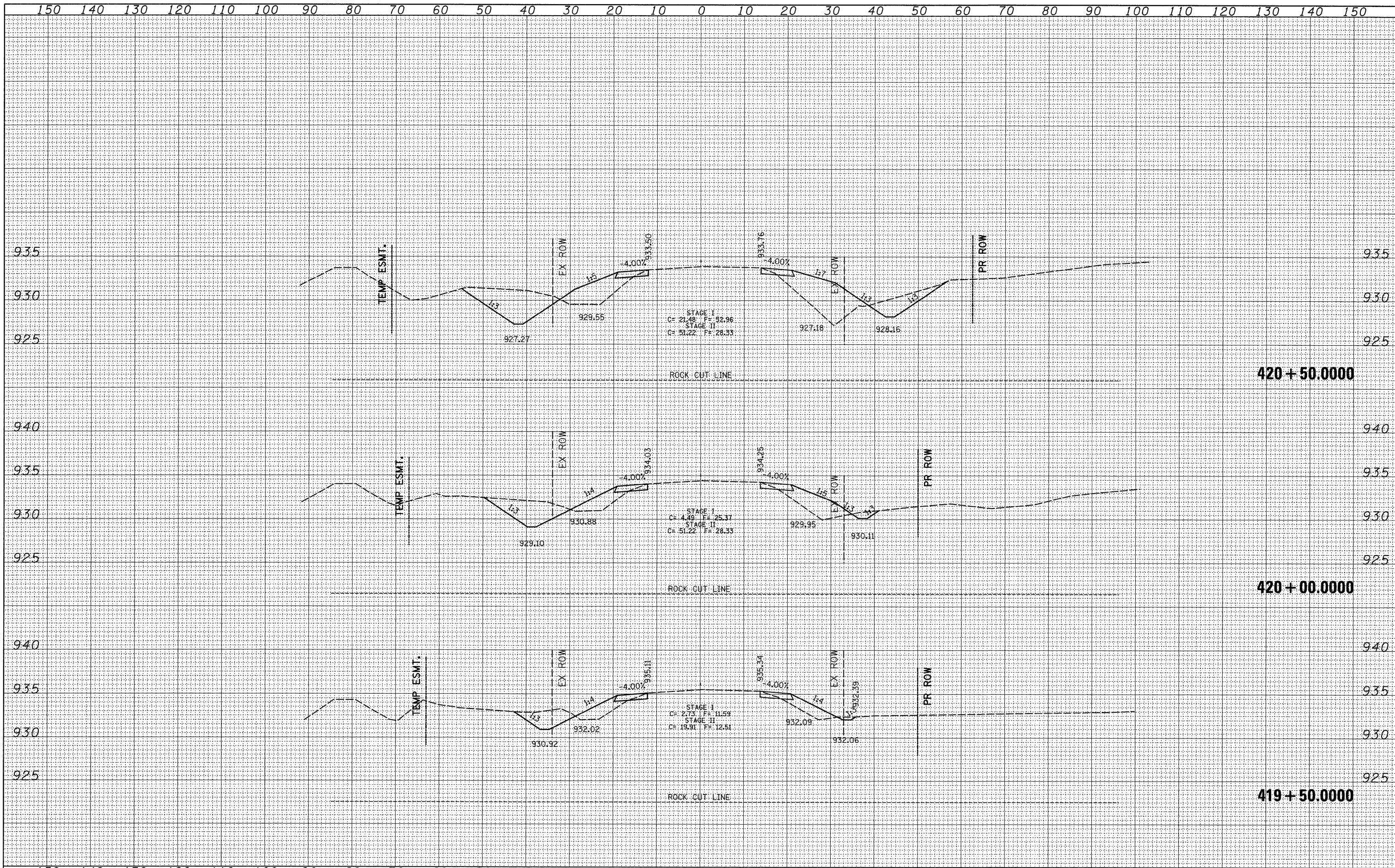
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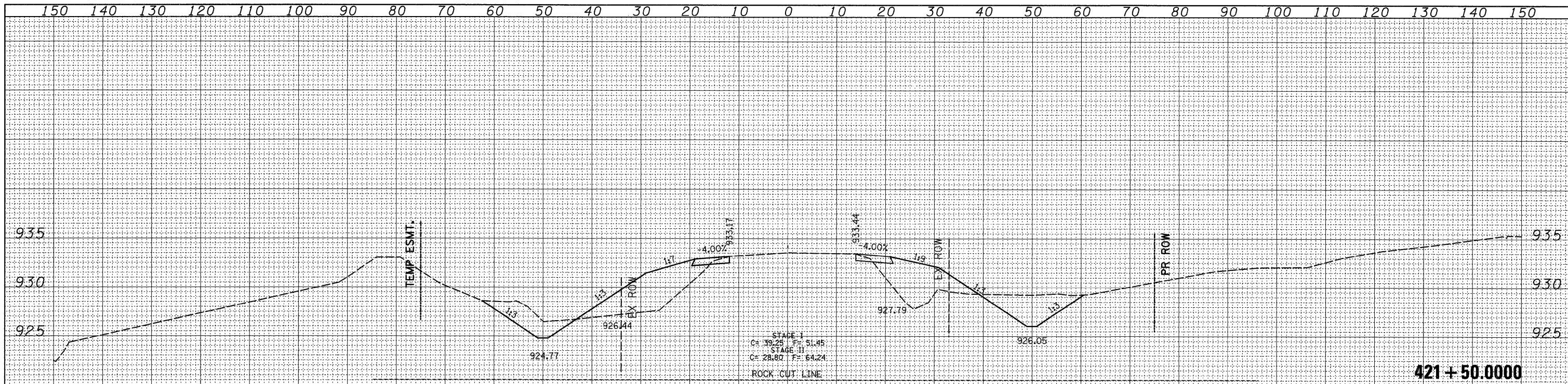
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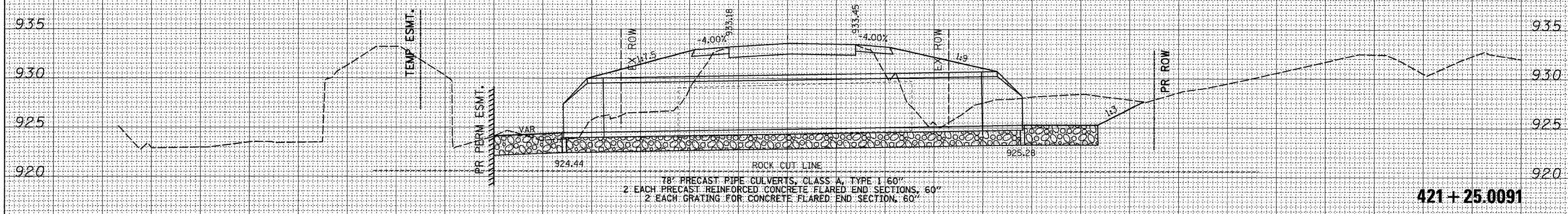


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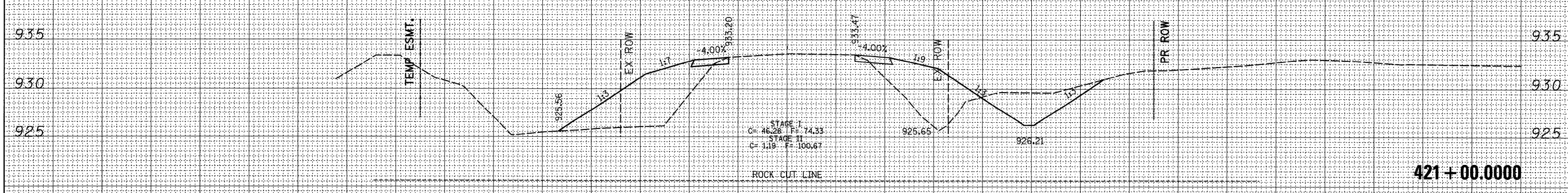
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421+50.0000



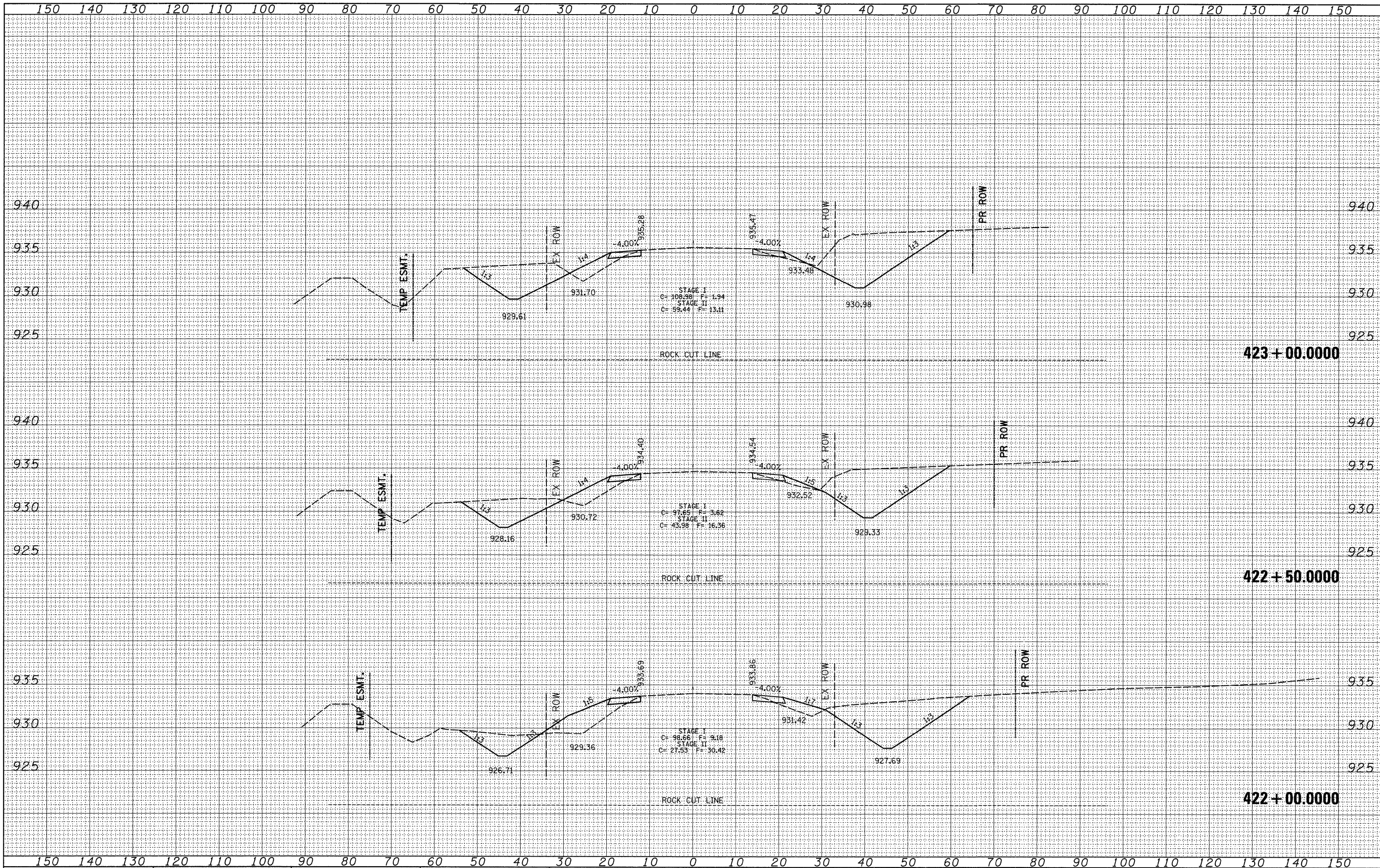
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421+00.0000

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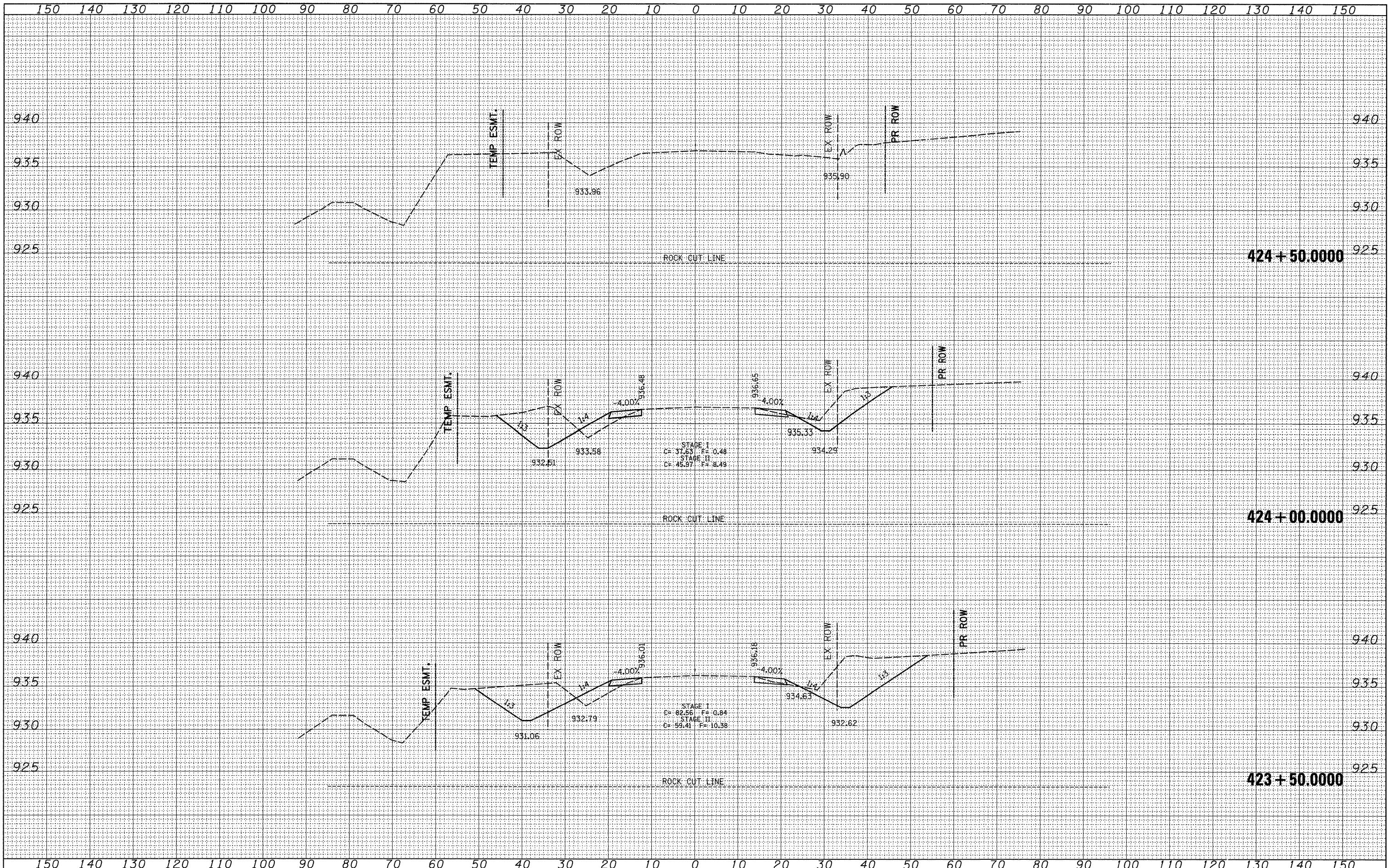
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. 422+00.0000 TO STA. 423+00.0000

F.A.P. RTE. 301	SECTION 21T-2	COUNTY STEPHENSON	TOTAL SHEETS 56	SHEET NO. 48
CONTRACT NO. 64C63			ILLINOIS FED. AID PROJECT	





BY	DATE
SURVEYED	
PLOTTED	
EMULATE	
NOTE BOOK	
AREAS CHECKED	
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BY	DATE
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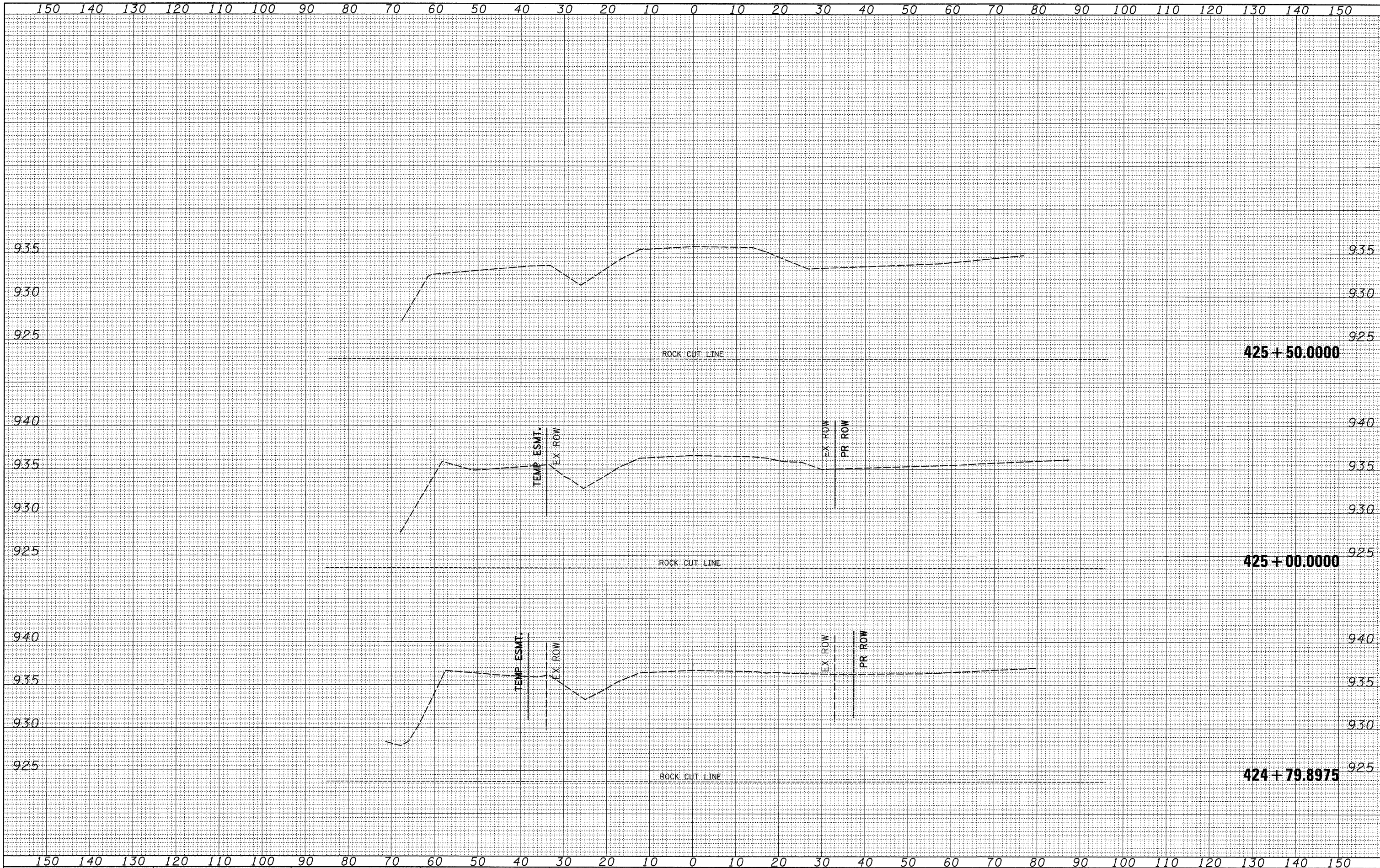
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	21T-2	STEPHENSON	56	49
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 64C63	

DATE	
BY	
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NOTE BOOK	
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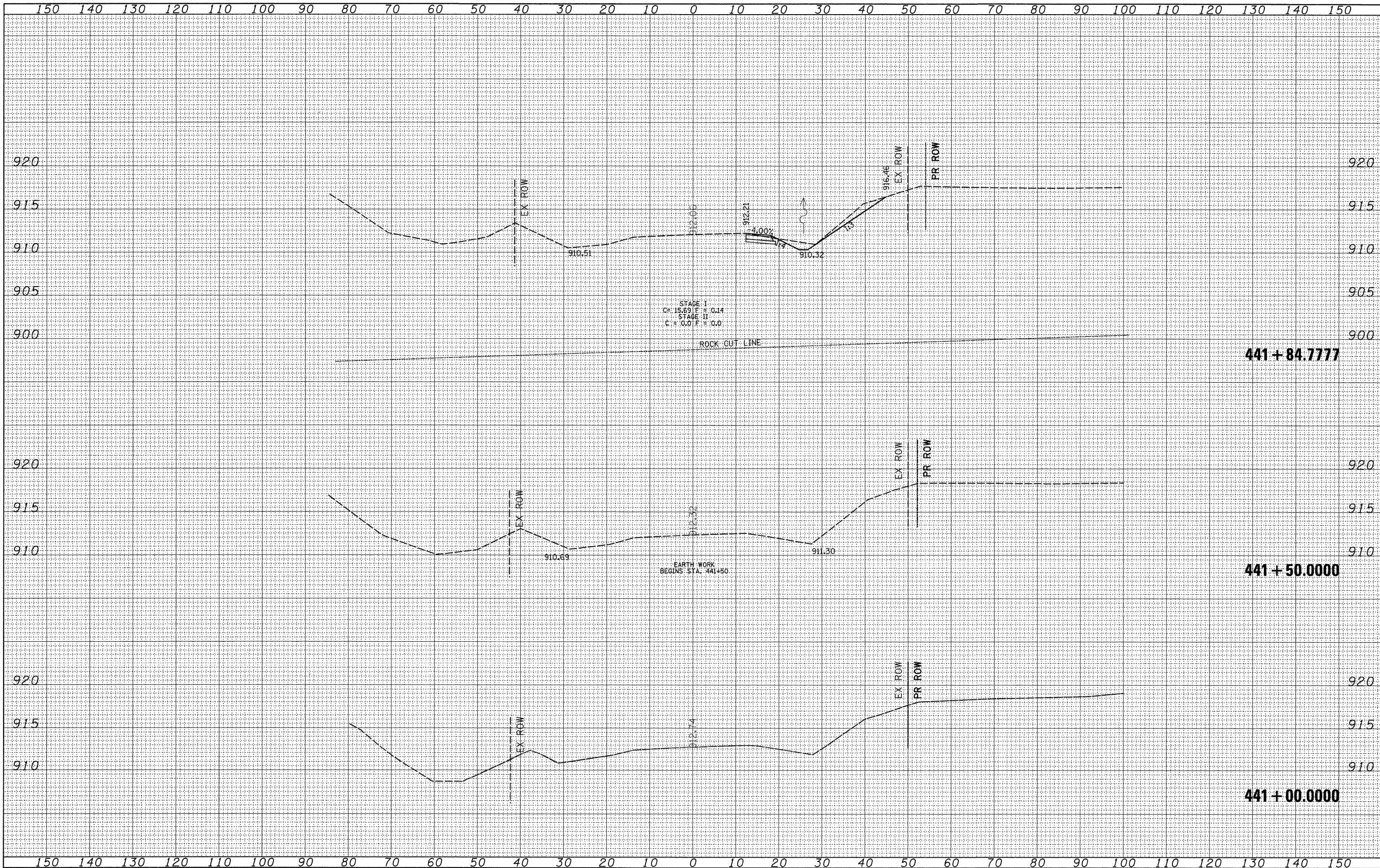
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PLOT DATE = Thu Dec 04 08:13:01 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64C63					
						SCALE:	SHEET NO. OF SHEETS	STA. 424+79.8975 TO STA. 425+50.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

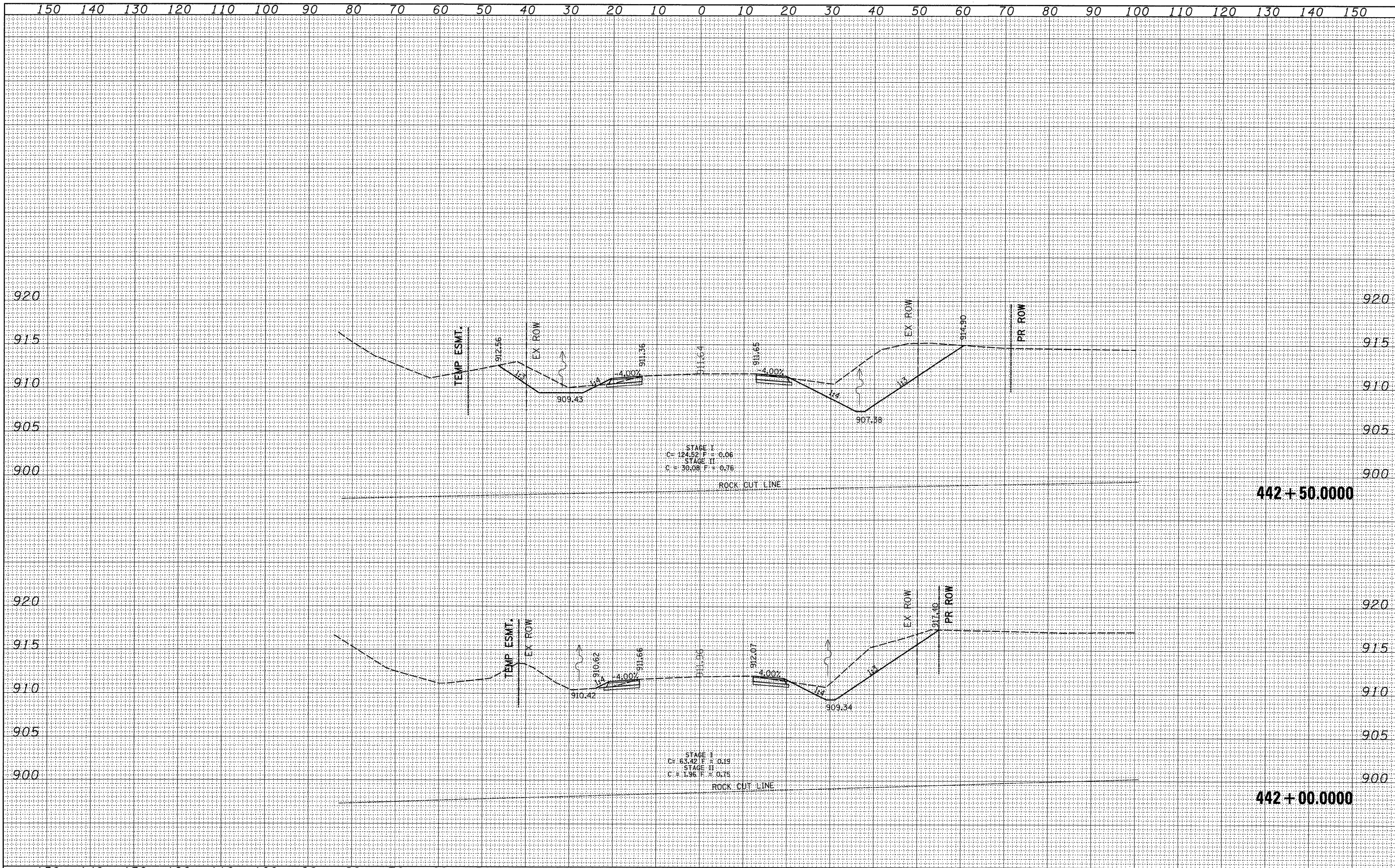
DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



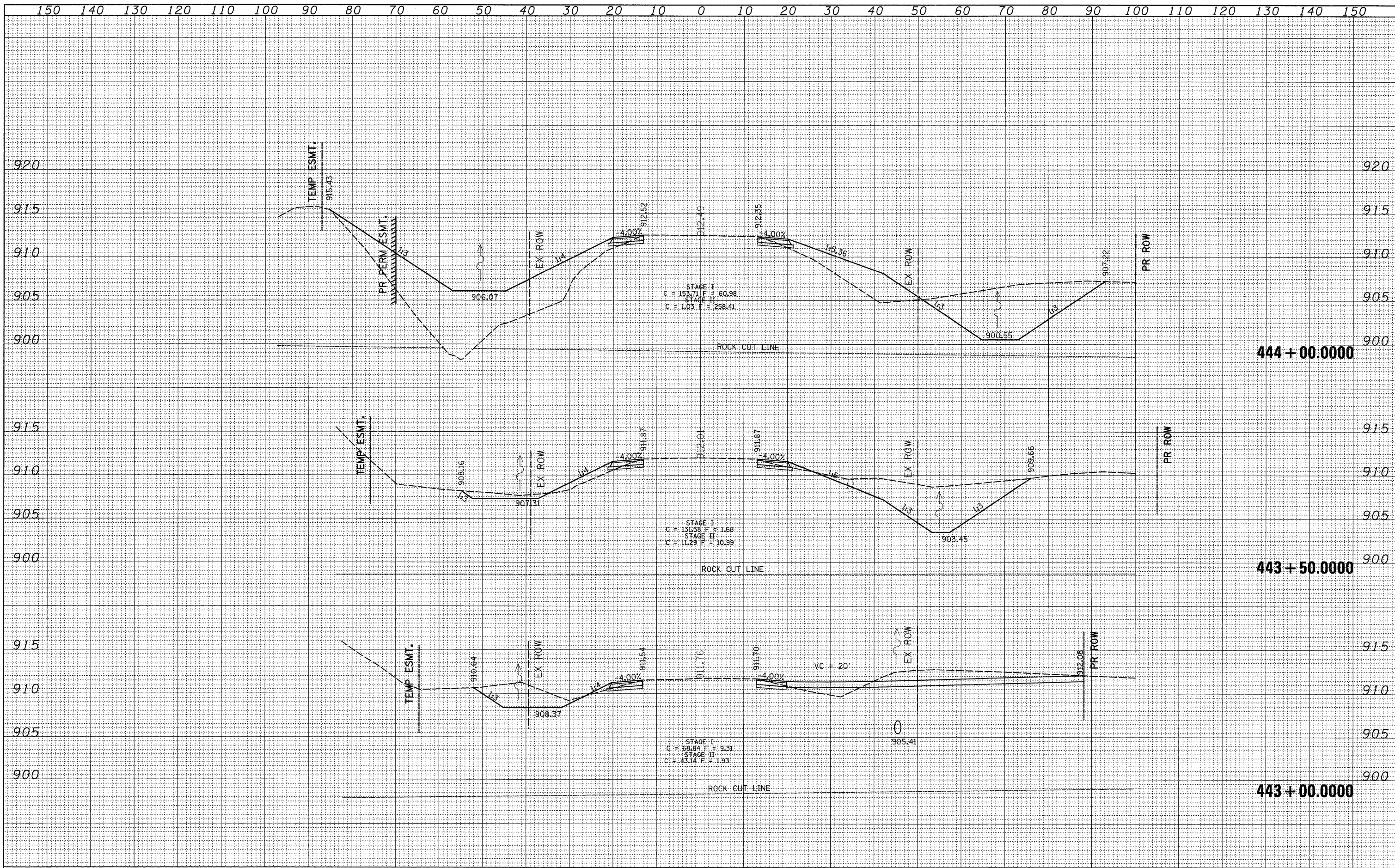
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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



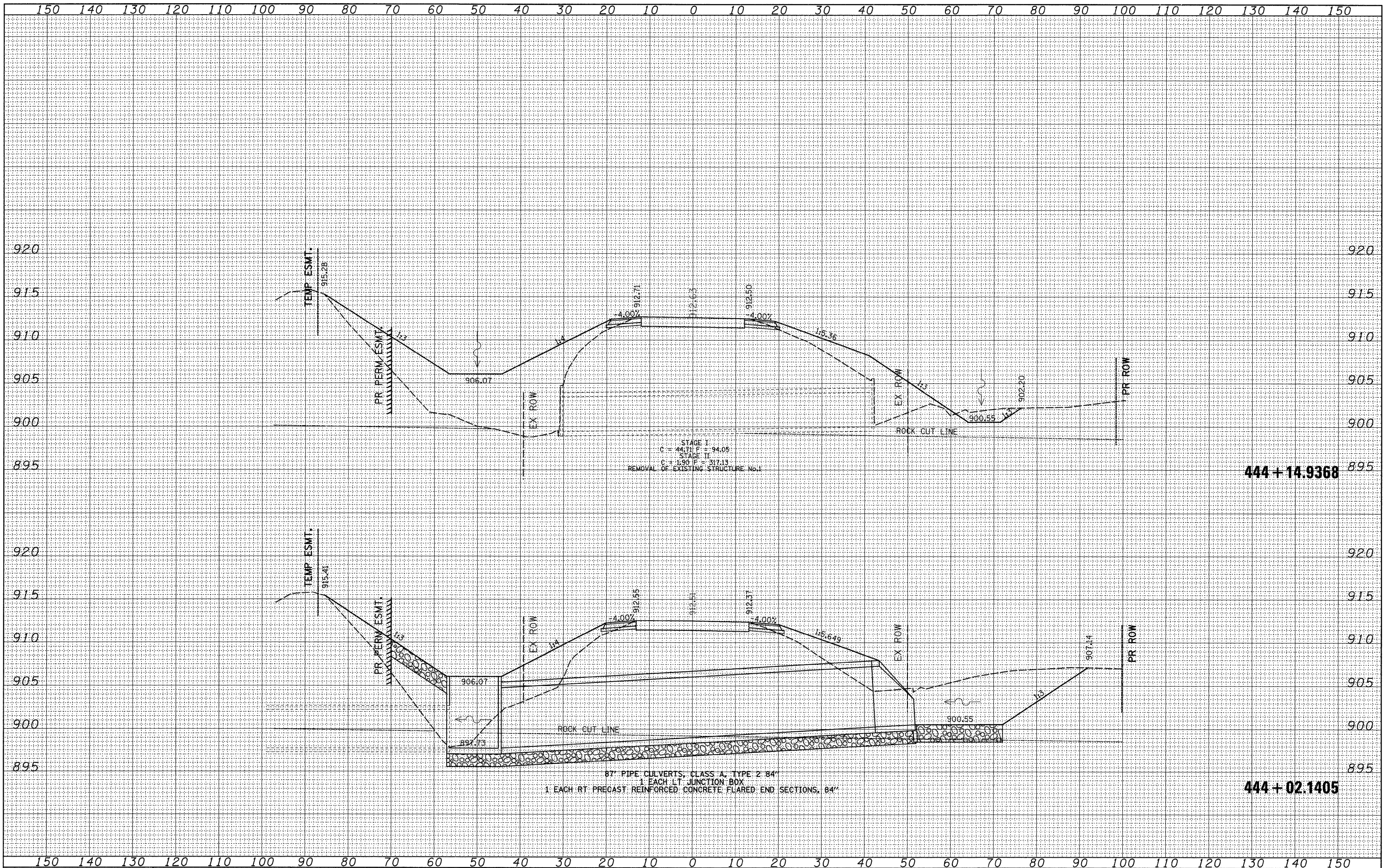
FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



STAGE I  
 C = 44.31 F = 94.05  
 STAGE II  
 C = 1.90 F = 317.13  
 REMOVAL OF EXISTING STRUCTURE NO.1

444 + 14.9368

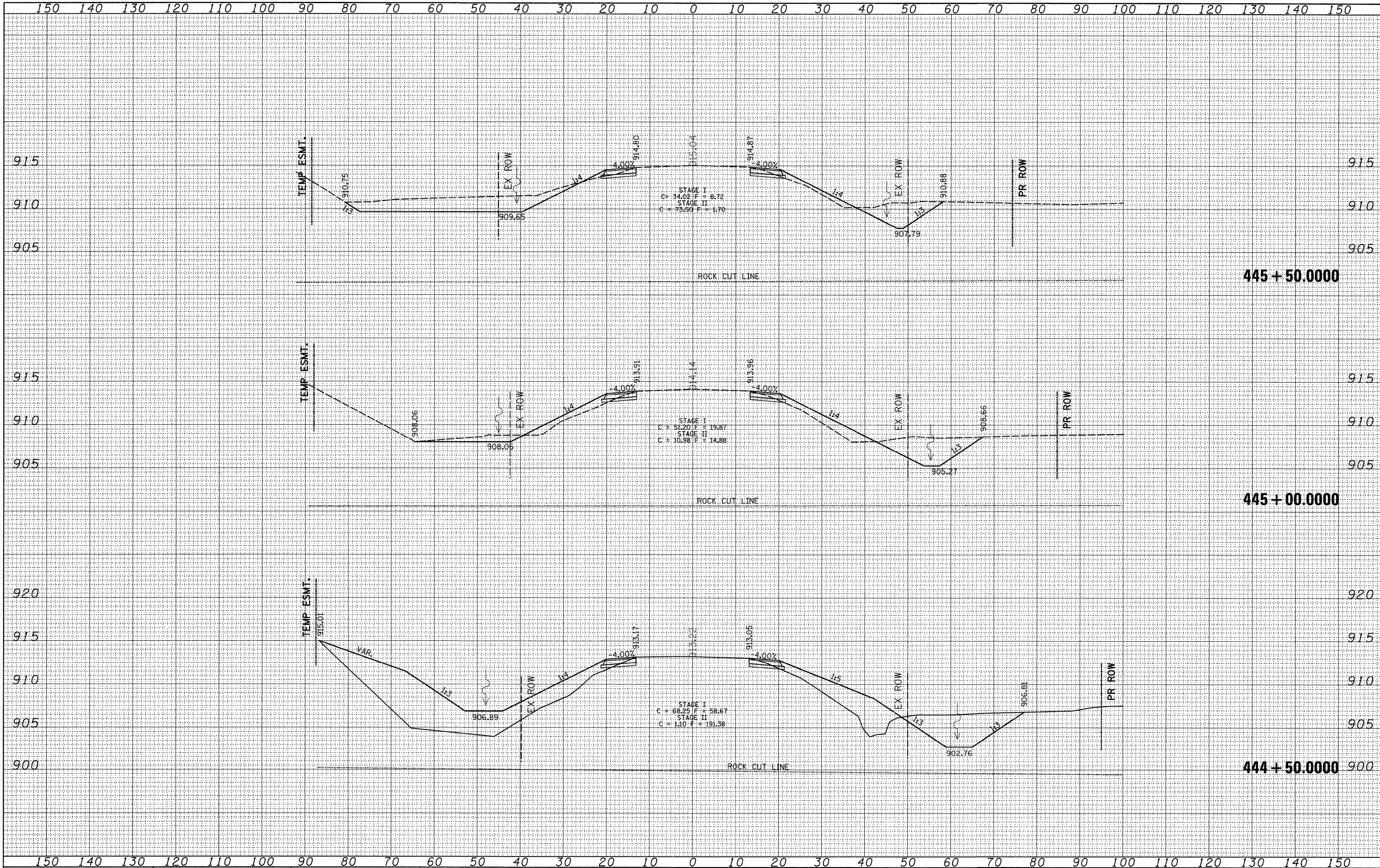
77' PIPE CULVERTS, CLASS A, TYPE 2 84"  
 1 EACH LT. JUNCTION BOX  
 1 EACH RT. PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 84"

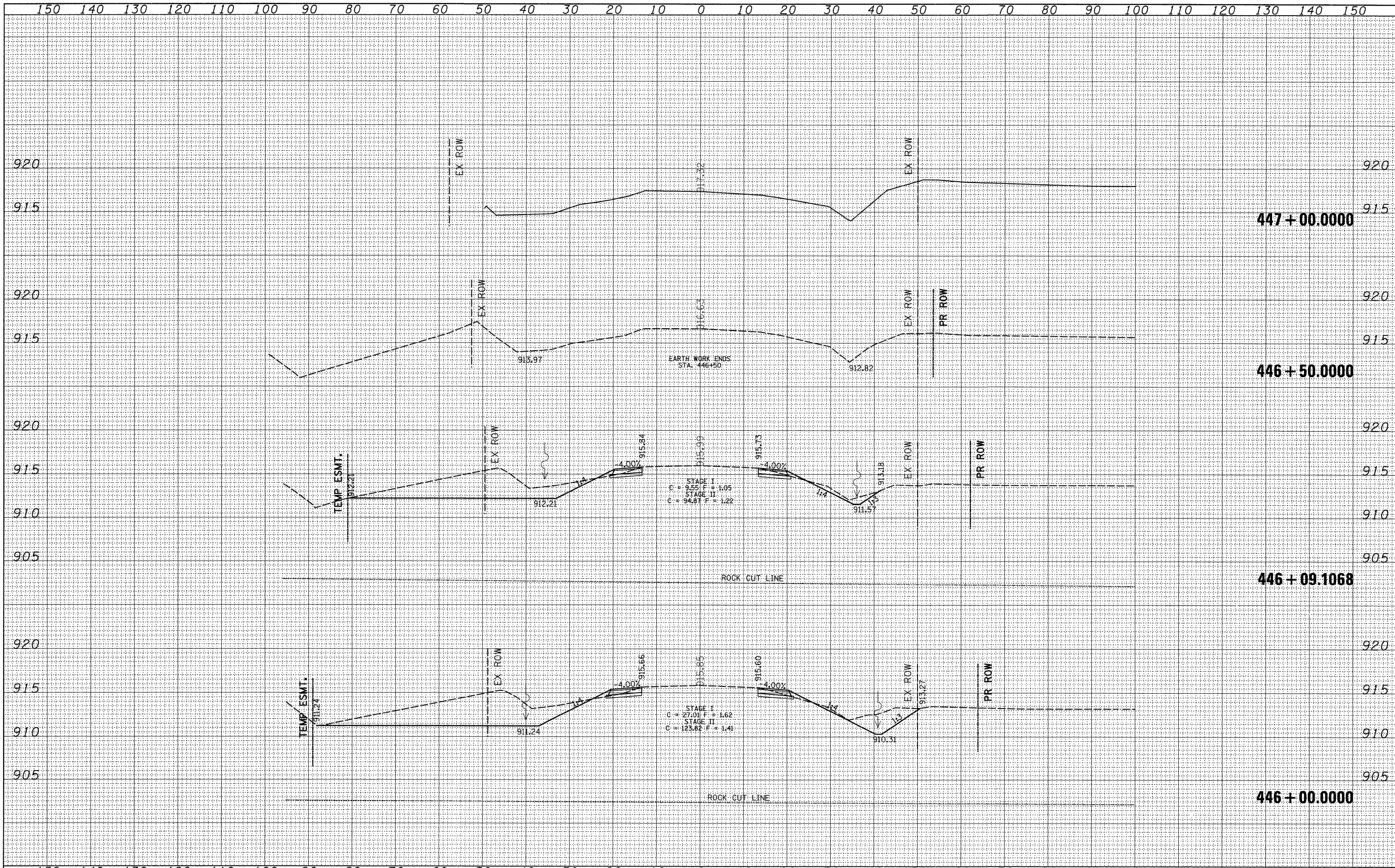
444 + 02.1405

FILE NAME =	USER NAME = donadd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 20</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw_work\PWIDOT\DOSSDD\dms34382\sl1206xm1.dgn		DRAWN -	REVISED -			301	21T-2	STEPHENSON	56	54	
PLOT SCALE = 10.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64C63					
PLOT DATE = Thu Dec 04 08:13:03 2008		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. 444+02.1405 TO STA. 444+14.9368	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
NO.	

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK	
NO.	





DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	