

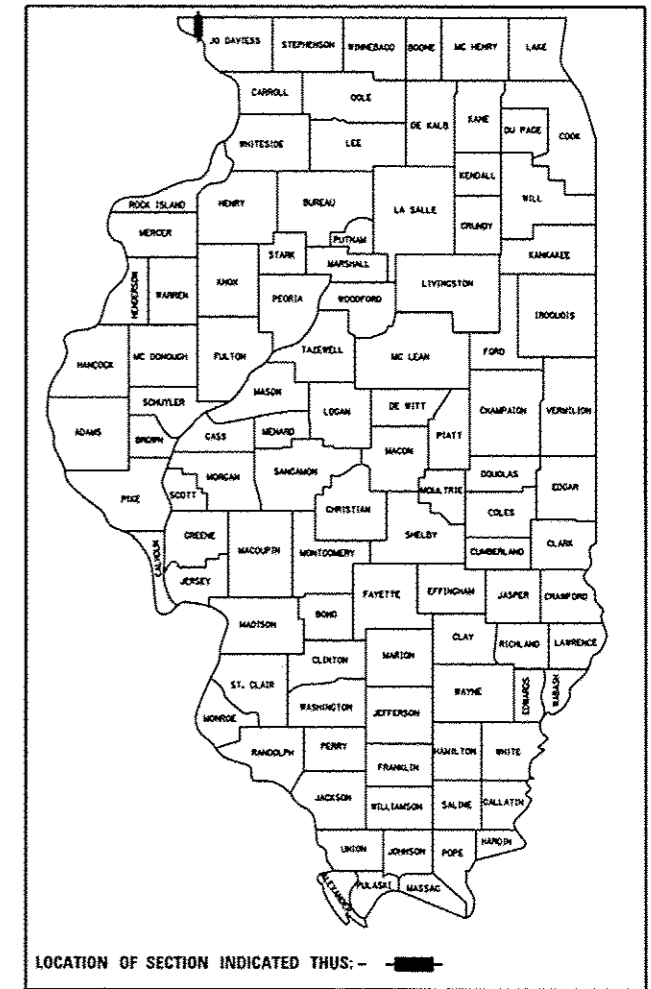
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JODAVIESS	64	1
		ILLINOIS	CONTRACT NO. 64F75	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 570 (IL 84)
SECTION 101T
PROJECT : F-0570(003)
REMOVAL & REPLACEMENT OF
TWO BOX CULVERTS ALONG IL 84
JODAVIESS COUNTY

D-92-014-10



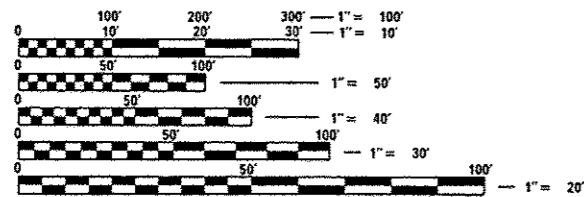
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

PROJECT ENDS
STA 1497+75

C-92-078-12

EXISTING: SN 043-1008
PROPOSED: SN 043-1100
STA 1494+03 - REMOVE
EXISTING 4'x5' BOX CULVERT
(42'-0") AND CONSTRUCT A
CAST-IN-PLACE 4'x5' BOX
CULVERT (90'-11")

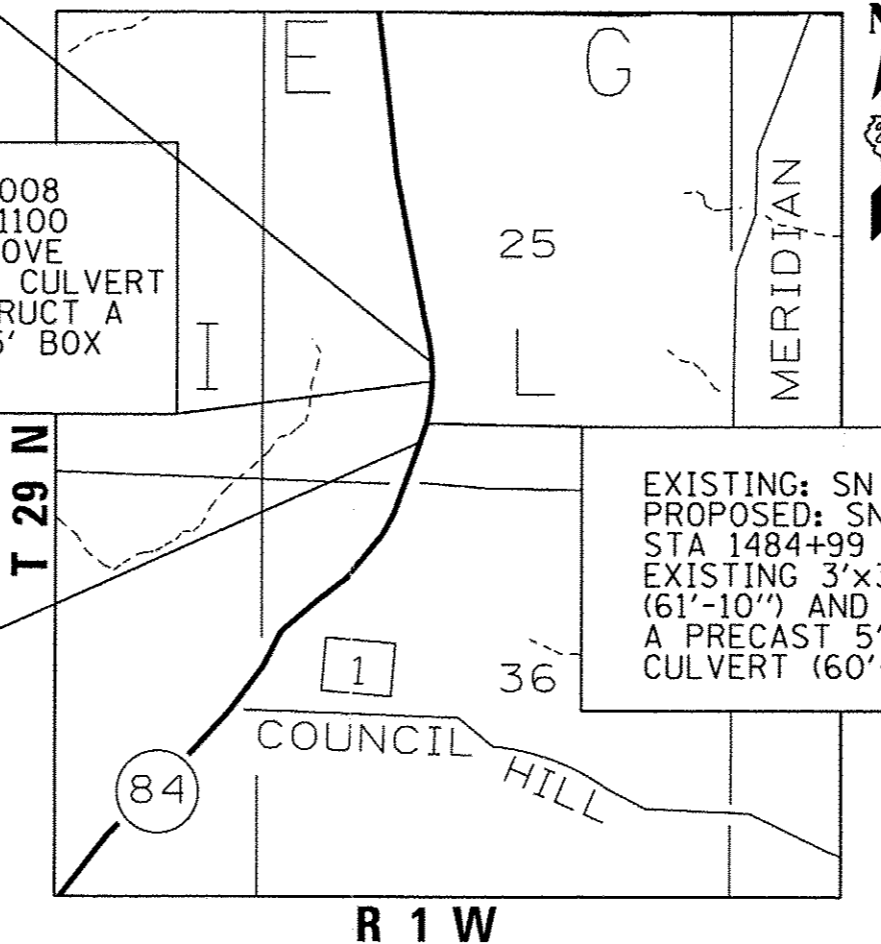
VINEGAR HILL TOWNSHIP
SECTION 25



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 BEGINS
STA 1481+75



EXISTING: SN 043-C001
PROPOSED: SN 043-1101
STA 1484+99 - REMOVE
EXISTING 3'x3' BOX CULVERT
(61'-10") AND CONSTRUCT
A PRECAST 5'x3' BOX
CULVERT (60'-0")

PROJECT ENGINEER: VAL LYKHOLAP PHONE# (815) 284-5933
PROJECT MANAGER: MASOOD AHMAD

CONTRACT NO. 64F75

GROSS LENGTH = 1600 FT. = 0.303 MILE
NET LENGTH = 1600 FT. = 0.303 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 22 20 13
Paul A. Korte
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MARCH 22 20 13
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

MARCH 22 20 13
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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FILE NAME : c:\pwork\pwork\idot\undbloderr\0233029	USER NAME : rundbloderr 0281410-aht-cover.dgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS / STATE STANDARDS	F.A.P. RTE. 570	SECTION 101T	COUNTY JO DAVIESS	TOTAL SHEETS 64	SHEET NO. 2
	PLOT SCALE : 48,0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 64F75 ILLINOIS FED. AID PROJECT				
	PLOT DATE : Tue Jan 22 11:39:36 2013	DATE -	REVISED -							

GENERAL NOTES

See cross sections for special ditches and backslopes.

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

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

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

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.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses less than 12 inches shall be constructed of aggregate of CA02 gradation.

Class C Patches shall be tied to the adjacent lane when the patches are more than 20 feet. The cost of the tie bars shall be included in the cost of the patch.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 9.5FG*	IL 9.5 or 9.5FG	BAM or IL 19.0
Friction Aggregate	C	N/A	C	N/A
20 Year ESAL	1.8	1.8	N/A	N/A
Mix Unit Weight	112 lb/sy/in		112 lb/sy/in	

* On projects with less than 2000 tons level binder, growth curve will be used for density and IL 9.5 may be used.

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

The area to be primed shall be limited to that which can be covered with HMA on the next days productivity, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

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 LEVELING BINDER (MACHINE METHOD) of the type specified.

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

The new numbers for these structures will be SN 043-1101 & SN 043-1100.

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

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

A Precast Box Culvert at Sta. 1494+03 is not an option on the project due to soil conditions. The culvert is located 0.9 mile north of Council Hill Road.

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

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

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

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 6" for Pipe Drains and 8" for Storm Sewer, but the size must be at least 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.

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

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

- All words, such as ONLY, shall be 8' high.
- All non-freeway arrows shall be the large size.
- The distance between yellow no-passing lines shall be 8", not 7" as shown in the detail of Typical Lane and Edge Lines.

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

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. Option 2 would be to install a vaulted style, monumented as described by NGS as a 3D monument (Top Security Sleeve Rod Monument), with installation instructions provided by the District Chief of Surveys. If poured in place, the bottom of the marker shall be 5'-0" below the ground surface.

FILE NAME = 64F75.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES			ROUTE	SECTION	COUNTY	DATE	SHEET
	PLOT SCALE =	DRAWN -	REVISED -					FAP 670	101T	Jedavless	64	3
	PLOT DATE = 1/19/2013 2:38 PM	CHECKED -	REVISED -		(IL 64)	CONTRACT NO. 64F75						
	DATE = 11/02/2011 8:10 AM	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

The Permanent Survey Markers, if possible, shall be installed at the beginning of the job and protected throughout.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal coordinates must be derived by GPS and the elevation derived using an electronic level. The meta data, such as the Geoid used, (NGS adjustment ie: 97 HARN, 03, 07), and the base point(s) name or number shall be submitted along with a complete collection log. If collected using RTK method, it will require either 3 collections (averaged) from 2 different bases, or a minimum of 3 collections (averaged), at least 2 hours apart, from the same base. If using a CORS type network, the collection procedure shall include localizing with check shots on at least 2 different HARN monuments both before and after collection. The level circuit shall be run from furnished mark to furnished mark and then adjusted. The error of closure shall be submitted with the electronic level notes in a recognized format approved by the Engineer and/or the Chief of Surveys. The Engineer shall submit this information to the District Chief of Surveys.

The temporary concrete barrier shall be anchored to the pavement with 3 anchors per section on the traffic side at the following locations:

- Sta. 1484+80 to 1485+18 and
- Sta. 1493+84 to 1494+22 for all stages

The Contractor shall begin fence erection as soon as clearing operations permit. Before removing existing fence from an area that contains livestock, the Contractor shall erect, along the proposed right of way lines, a temporary fence or wire meeting the approval of the Engineer. The Contractor shall concentrate his permanent fencing operations at these locations and at other specific locations as directed by the Engineer. The cost of arranging work as herein specified will not be paid for as a separate item but shall be included in the contract unit price per Foot for WOVEN WIRE FENCE, CHAIN LINK FENCE. Temporary Fence shall be paid for by the Foot for TEMPORARY FENCE.

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 per Highway Standard 666001 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 12 inches inside the new right-of-way line. Method of installation shall be approved by the Engineer.

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:

- AT&T (815/394-7297)
- Jo-Carroll Energy/Gas (815/273-2222)
- Jo-Carroll Energy/Electric (815/858-2207)

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

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

Temporary Impact Attenuators will be measured as each for each attenuator supplied on the job as specified in the plans, and shall include the cost of renting/owning the attenuator for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, TEMPORARY of the type specified.

Relocate Temporary Impact Attenuators will be paid for as Each and will be paid for each time the attenuator is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

This work shall be done in accordance with Section 704 of the Standard Specifications. Temporary Concrete Barrier will be measured in feet along the centerline of the barrier and shall include the cost of renting/owning the barrier for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway in accordance with Section 704 of the Standard Specification. This shall be paid for at the contract unit price per Foot for TEMPORARY CONCRETE BARRIER.

Relocate Temporary Concrete Barrier will be paid for in Feet along the centerline of the barrier, and will be paid for each time the barrier is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

The Contractor shall contact the property owner, Monica Houtakker, two weeks prior to construction. Temporary fence must be maintained throughout the duration of construction.

FILE NAME = 6475.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			FAP 570	191T	JoDaviess	64	4
	PLOT SCALE =	CHECKED -	REVISED -			(IL 84)		CONTRACT NO. 6475		
	PLOT DATE = 1/19/2013 2:36 PM	DATE = 11/09/2011 8:10 AM	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.

SUMMARY OF QUANTITIES

0040

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36
20101000	TEMPORARY FENCE	FOOT	2,778	2,778
20200100	EARTH EXCAVATION	CU YD	8,717	8,717
* 21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	1,422	1,422
* 25000210	SEEDING, CLASS 2A	ACRE	1.75	1.75
* 25000310	SEEDING, CLASS 4	ACRE	1.25	1.25
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	274	274
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	274	274
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	274	274
*** 25000750	MOWING	ACRE	1.75	1.75
* 25100125	MULCH, METHOD 3	ACRE	2.75	2.75
* 25100630	EROSION CONTROL BLANKET	SQ YD	2,037	2,037
* 25100900	TURF REINFORCEMENT MAT	SQ YD	16.0	16.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2,100	2,100
28000305	TEMPORARY DITCH CHECKS	FOOT	310	310
28000400	PERIMETER EROSION BARRIER	FOOT	1,050	1,050
28000500	INLET AND PIPE PROTECTION	EACH	4	4
28100107	STONE RIPRAP, CLASS A4	SQ YD	3	3

* SPECIALTY ITEM
 *** NON-PARTICIPATING 100%

SUMMARY OF QUANTITIES

0040

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE
28200200	FILTER FABRIC	SQ YD	103	103
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	100	100
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2,650.0	2,650.0
35101400	AGGREGATE BASE COURSE, TYPE B	TON	449	449
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	301	301
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	260	260
40600990	TEMPORARY RAMP	SQ YD	29	29
40603310	HOT- MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	316	316
40603335	HOT- MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	388	388
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	12	12
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	174	174
48203019	HOT- MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	2,256	2,256
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,460	6,460
50800515	BAR SPLICERS	EACH	27	27
51500100	NAME PLATES	EACH	2	2
54001001	BOX CULVERT END SECTIONS, CULVERT NO.1	EACH	1	1

* SPECIALTY ITEM
 *** NON- PARTICIPATING 100%

FILE NAME : c:\pwworkspace\pwworkspace\dossdd\0233029\02014	USER NAME : dossdd	DESIGNED : -	REVISED : -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 84	F.A.P. RTE. 570	SECTION IGIT	COUNTY JO DAVIESS	TOTAL SHEETS 64	SHEET NO. 6	CONTRACT NO. 64F75
PLOT SCALE : 100.0000 / 1 in.		CHECKED : -									
PLOT DATE : Tue Jan 22 11:30:16 2013		DATE : -									
						SCALE:		SHEET OF SHEETS		STA. TO STA.	
ILLINOIS FED. AID PROJECT											

SUMMARY OF QUANTITIES

0040

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE
54001002	BOX CULVERT END SECTIONS, CULVERT NO.2	EACH	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	46.1	46.1
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	60	60
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	94	94
5421D036	PIPE CULVERTS, CLASS D, TYPE 1 36" (TEMPORARY)	FOOT	20	20
5421D048	PIPE CULVERTS, CLASS D, TYPE 1 48" (TEMPORARY)	FOOT	20	20
54213450	END SECTIONS 15"	EACH	4	4
54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	1	1
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	6	6
60100915	PIPE DRAINS 6"	FOOT	59	59
60107600	PIPE UNDERDRAINS 4"	FOOT	355	355
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	100	100
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	100	100
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	767	767
63500105	DELINEATORS	EACH	8	8
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	30	30
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2

* SPECIALTY ITEM
 *** NON-PARTICIPATING 100%

FILE NAME * c:\pwworkspace\10000000\d0233029\02014	USER NAME * dosadd 0-shi-500.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 84	F.A.P. RTE. 570	SECTION 101T	COUNTY JO DAVIESS	TOTAL SHEETS 64	SHEET NO. 7
PLOT SCALE * 1/8"=1'-0" / in.				SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 64F75 ILLINOIS FED. AID PROJECT				
PLOT DATE * Tue Jan 22 11:30:26 2013										

SUMMARY OF QUANTITIES

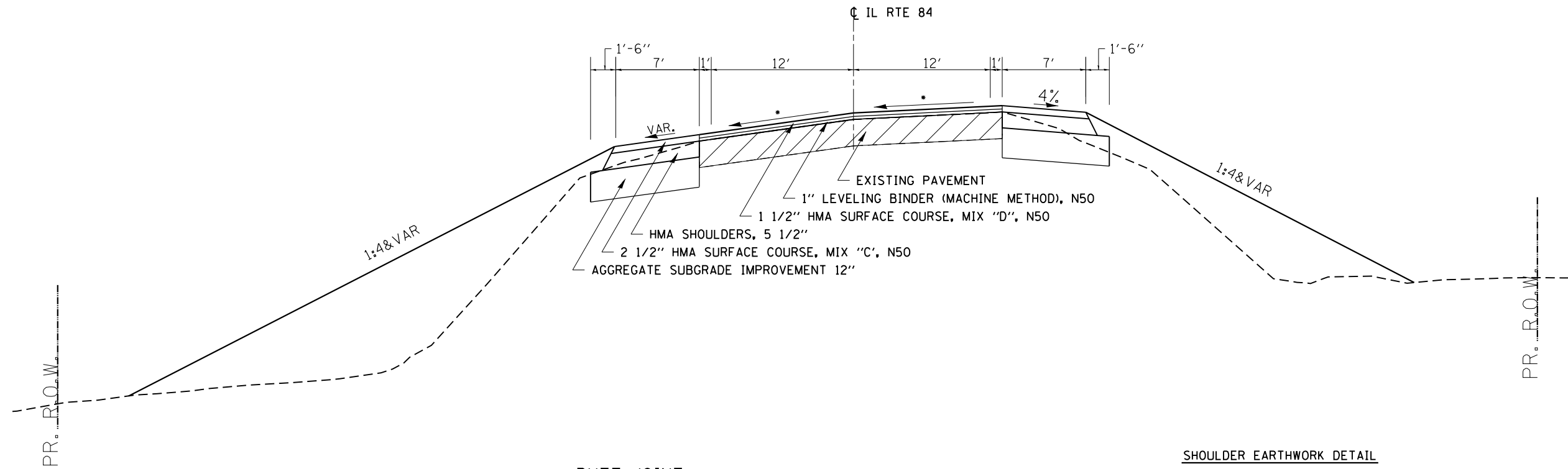
0040

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	2
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	18	18
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	2
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12
70300100	SHORT TERM PAVEMENT MARKING	FOOT	283	283
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,359	3,359
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48	48
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,312	1,312
70400100	TEMPORARY CONCRETE BARRIER	FOOT	612.5	612.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	537.5	537.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON - REDIRECTIVE), TEST LEVEL 3	EACH	4	4
70600350	IMPACT ATTENUATORS, RELOCATE (NON - REDIRECTIVE), TEST LEVEL 3	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6,400	6,400

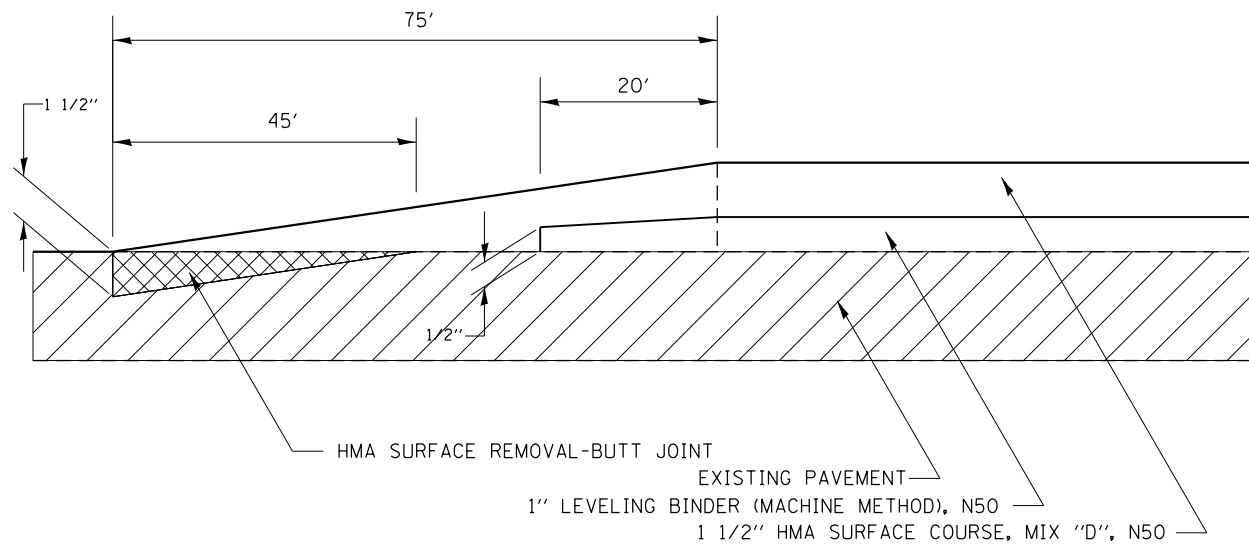
* SPECIALTY ITEM
 *** NON- PARTICIPATING 100%

TYPICAL SECTIONS

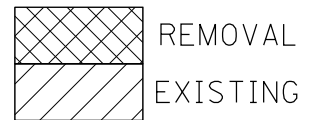
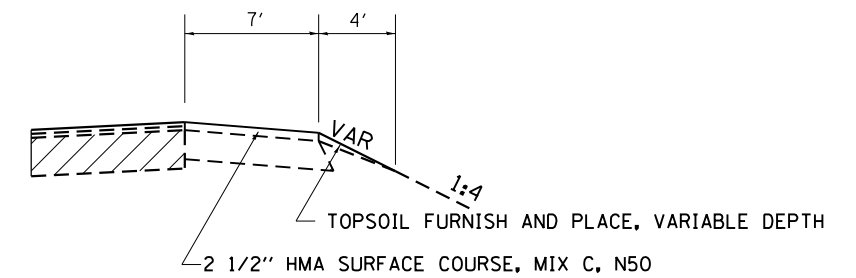
PROPOSED TYPICAL
 STA 1482+50 TO 1484+84
 STA 1485+14 TO 1493+88
 STA 1494+18 TO 1497+00



BUTT-JOINT
 STA 1481+75 TO 1482+50
 STA 1497+00 TO 1497+75



SHOULDER EARTHWORK DETAIL



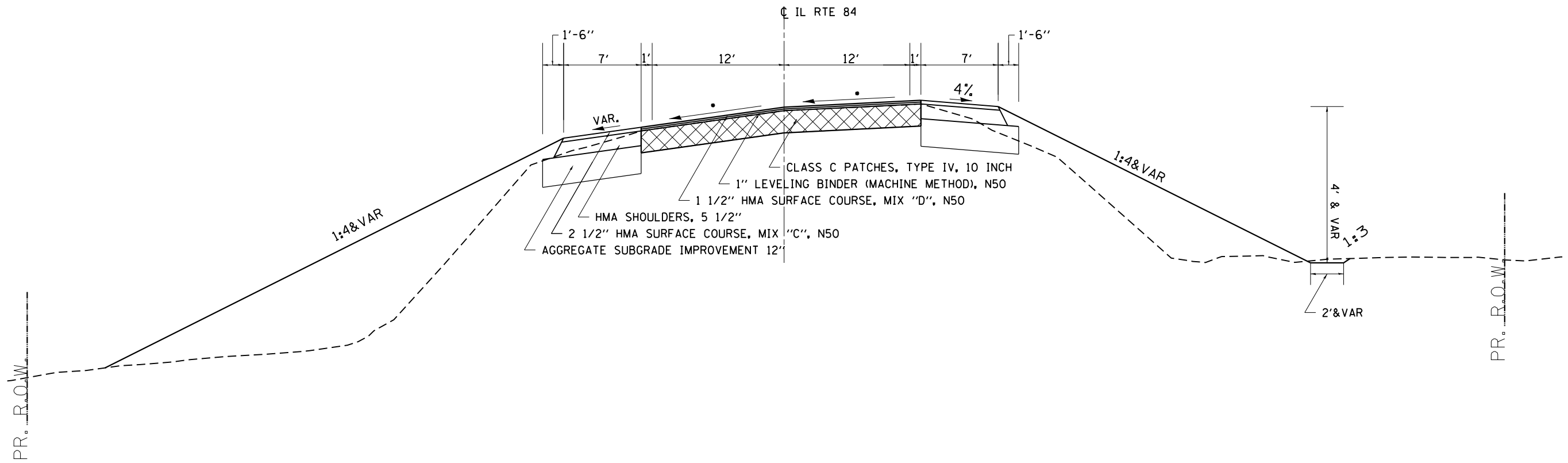
BITUMINOUS MIXTURES:
 112 LBS/SQ YD/INCH

* - MATCH EXISTING

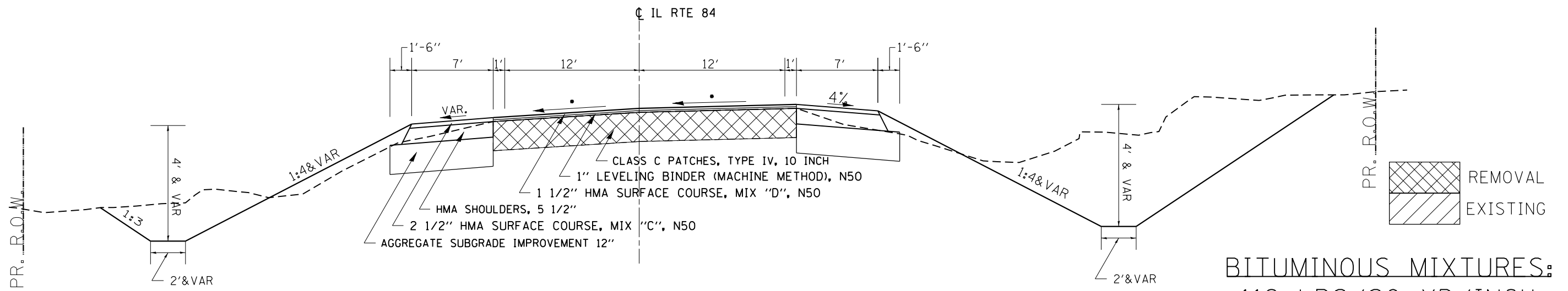
FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 84 TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\dosddd\0233029\02014	0-sht-typical.dgn	DRAWN -	REVISED -		570	101T	JO DAVIESS	64	10			
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 64F75				
	PLOT DATE = Tue Jan 22 11:22:37 2013	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

TYPICAL SECTIONS

PROPOSED TYPICAL
STA 1484+84 TO 1485+14



PROPOSED TYPICAL
STA 1493+88 TO 1494+18

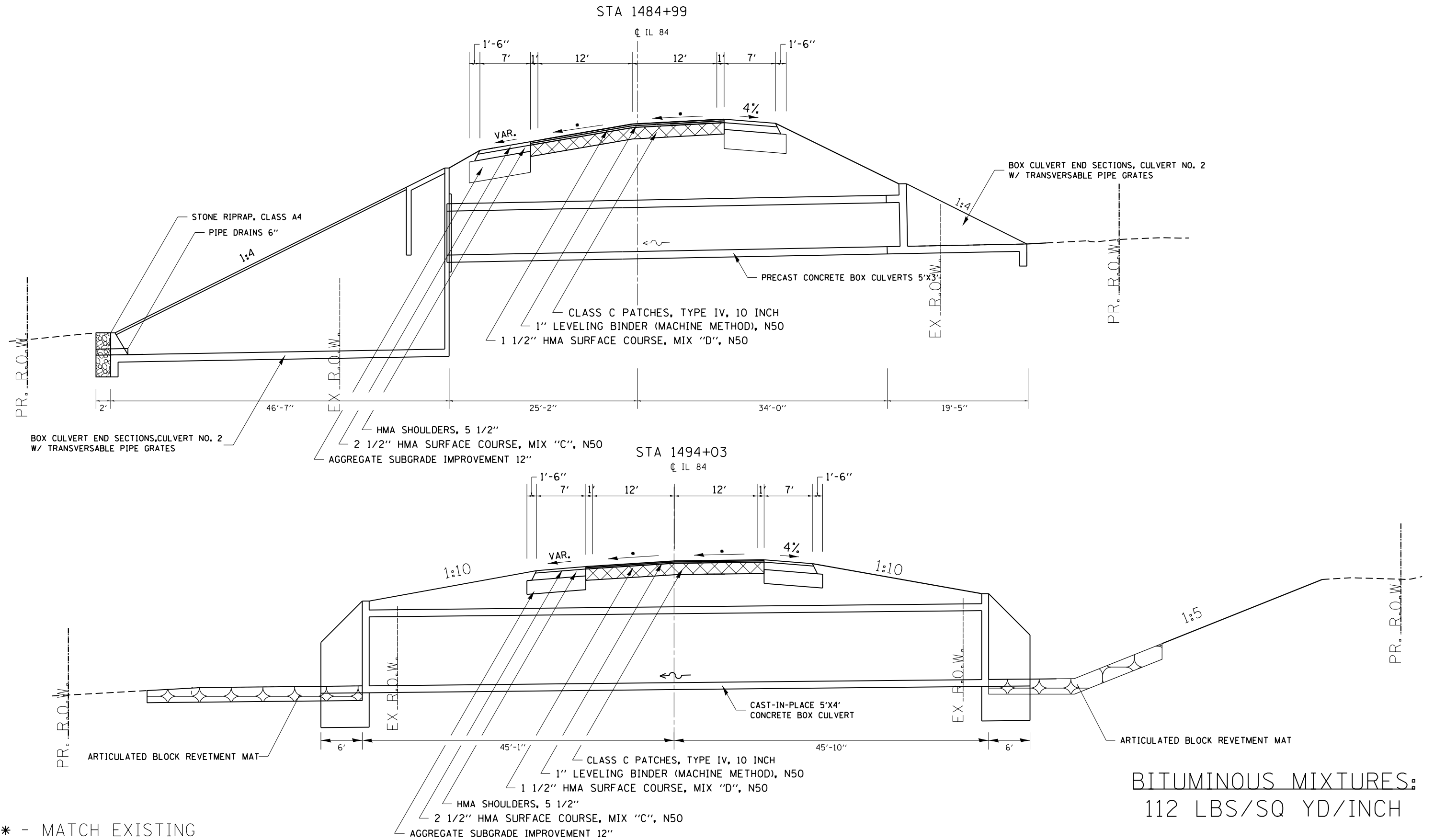


BITUMINOUS MIXTURES:
112 LBS/SQ YD/INCH

* - MATCH EXISTING

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 84 TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TYPICAL SECTIONS



BITUMINOUS MIXTURES:
 112 LBS/SQ YD/INCH

* - MATCH EXISTING

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 84 TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
et:\pw\work\p\dot\dosddd\0233029\02014	0-sht-typical.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	570	101T	JO DAVIESS	64	12
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SCHEDULE OF QUANTITIES

1 LOCATION	2 EARTH EXCAVATION 20200100	3 EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	4 EMBANKMENT	5 EARTHWORK BALANCE (+)
	CU YD	CU YD	CU YD	CU YD
Sta. 1482+50 to 1497+00 LT	3675	2756	1347	1409
Sta. 1482+50 to 1497+00 RT	5042	3782	960	2822
TOTAL	8717	6538	2307	4231

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION
	IL 84
36.0	Sta 1495 + 55 RT
36.0	TOTAL

20101000 TEMPORARY FENCE

FOOT	LOCATION
	IL 84
401.0	Sta 1483 + 00 - 1486 + 46 LT
833.0	Sta 1488 + 01 - 1495 + 53 LT
123.0	Sta 1495 + 77 - 1497 + 00 LT
492.0	Sta 1483 + 00 - 1487 + 61 RT
929.0	Sta 1487 + 94 - 1497 + 00 RT
2,778.0	TOTAL

21101600 TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH

SQ YD	LOCATION
	US 20
711.1	Sta 1481 + 75 - 1497 + 75 LT
711.1	Sta 1481 + 75 - 1497 + 75 RT
1422.2	TOTAL

25000210 SEEDING, CLASS 2A

ACRE	LOCATION
	IL 84
0.77	Sta 1482 + 50 - 1497 + 00 RT
0.99	Sta 1482 + 50 - 1497 + 00 LT
1.76	TOTAL

25000310 SEEDING, CLASS 4

ACRE	LOCATION
	IL 84
0.72	Sta 1482 + 50 - 1497 + 00 RT
0.56	Sta 1482 + 50 - 1497 + 00 LT
1.28	TOTAL

25000400 NITROGEN FERTILIZER NUTRIENT

POUND	LOCATION
	IL 84
134.1	Sta 1482 + 50 - 1497 + 00 RT
139.5	Sta 1482 + 50 - 1497 + 00 LT
273.6	TOTAL

25000500 PHOSPHORUS FERTILIZER NUTRIENT

POUND	LOCATION
	IL 84
134.1	Sta 1482 + 50 - 1497 + 00 RT
139.5	Sta 1482 + 50 - 1497 + 00 LT
273.6	TOTAL

25000600 POTASSIUM FERTILIZER NUTRIENT

POUND	LOCATION
	IL 84
134.1	Sta 1482 + 50 - 1497 + 00 RT
139.5	Sta 1482 + 50 - 1497 + 00 LT
273.6	TOTAL

25000750 MOWING

ACRE	LOCATION
	IL 84
0.77	Sta 1482 + 50 - 1497 + 00 RT
0.99	Sta 1482 + 50 - 1497 + 00 LT
1.76	TOTAL

25100125 MULCH, METHOD 3

ACRE	LOCATION
	IL 84
1.41	Sta 1482 + 50 - 1497 + 00 RT
1.34	Sta 1482 + 50 - 1497 + 00 LT
2.75	TOTAL

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION
	IL 84
230.0	Sta 1482 + 79 - 1484 + 76 RT
114.0	Sta 1486 + 50 - 1487 + 51 RT
650.0	Sta 1488 + 14 - 1493 + 93 RT
327.0	Sta 1494 + 13 - 1497 + 00 RT
36.0	Sta 1486 + 00 - 1486 + 34 LT
680.0	Sta 1486 + 89 - 1493 + 00 LT
2037.0	TOTAL

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION
	IL 84
16.0	Sta 1484 + 94 - 1485 + 03 RT
16.0	TOTAL

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION
	IL 84
2100.0	See Erosion Plans (7 applications)
2100.0	TOTAL

SCHEDULE OF QUANTITIES

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION
	IL 84
10.0	Sta 1483+75 RT
10.0	Sta 1484+00 RT
10.0	Sta 1484+50 RT
10.0	Sta 1484+75 RT
10.0	Sta 1486+75 RT
10.0	Sta 1487+00 RT
10.0	Sta 1488+25 RT
10.0	Sta 1489+00 RT
10.0	Sta 1490+00 RT
10.0	Sta 1491+00 RT
10.0	Sta 1492+20 RT
10.0	Sta 1493+00 RT
10.0	Sta 1493+50 RT
10.0	Sta 1493+70 RT
10.0	Sta 1493+90 RT
10.0	Sta 1494+20 RT
10.0	Sta 1494+35 RT
10.0	Sta 1494+50 RT
10.0	Sta 1494+75 RT
10.0	Sta 1495+00 RT
10.0	Sta 1495+50 RT
10.0	Sta 1496+00 RT
10.0	Sta 1496+50 RT
10.0	Sta 1486+00 LT
10.0	Sta 1486+25 LT
10.0	Sta 1487+00 LT
10.0	Sta 1488+00 LT
10.0	Sta 1489+00 LT
10.0	Sta 1490+00 LT
10.0	Sta 1492+00 LT
10.0	Sta 1493+00 LT
<u>310.0</u>	TOTAL

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION
	IL 84
100.0	Sta 1482+50 - 1483+50 RT
200.0	Sta 1484+75 - 1486+75 RT
350.0	Sta 1482+50 - 1486+00 LT
400.0	Sta 1493+00 - 1497+00 LT
<u>1050.0</u>	TOTAL

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION
	IL 84
1.0	Sta 1484+99 RT
1.0	Sta 1494+03 RT
1.0	Sta 1488+14 RT
1.0	Sta 1486+89 LT
<u>4.0</u>	TOTAL

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION
	IL 84
3.0	Sta 1484+99 LT
<u>3.0</u>	TOTAL

28200200 FILTER FABRIC

SQ YD	LOCATION
	IL 84
3.0	Sta 1484+99 LT End Section
50.0	Sta 1493+93 - 1494+13 RT ABRM
50.0	Sta 1493+93 - 1494+13 LT ABRM
<u>103.0</u>	TOTAL

28500400 ARTICULATED BLOCK REVETMENT MAT

SQ YD	LOCATION
	IL 84
50.0	Sta 1493+93 - 1494+13 RT
50.0	Sta 1493+93 - 1494+13 LT
<u>100.0</u>	TOTAL

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

SQ YD	LOCATION
	IL 84
1,320.0	Sta 1482+50 - 1497+00 LT SHOULDER
1,330.0	Sta 1482+50 - 1497+00 RT SHOULDER
<u>2,650.0</u>	TOTAL

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION
	IL 84
108.0	Sta 1486+64 LT Private Entrance
120.0	Sta 1487+83 RT Field Entrance
221.0	Sta 1495+63 LT Field Entrance
<u>449.0</u>	TOTAL

40600625 LEVELING BINDER (MACHINE METHOD), N50

TON	LOCATION
	IL 84
301.3	Sta 1482+30 - 1497+20
<u>301.3</u>	TOTAL

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION
	IL 84
130.0	Sta 1481+75 - 1482+20
130.0	Sta 1497+30 - 1497+75
<u>260.0</u>	TOTAL

40600990 TEMPORARY RAMP

SQ YD	LOCATION
	IL 84
14.4	Sta 1481+75 - 1482+20
14.4	Sta 1497+30 - 1497+75
<u>28.8</u>	TOTAL

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

TON	LOCATION
	IL 84
158.0	Sta 1482+50 - 1497+00 LT
158.0	Sta 1482+50 - 1497+00 RT
<u>316.0</u>	TOTAL

SCHEDULE OF QUANTITIES

40603335 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

<u>TON</u>	<u>LOCATION</u>
	IL 84
388.3	Sta 1481+75 - 1497+75
388.3	TOTAL

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

<u>TON</u>	<u>LOCATION</u>
	IL 84
12.0	Sta 1486+61 LT Private Entrance
12.0	TOTAL

44201359 CLASS C PATCHES, TYPE IV, 10 INCH

<u>SQ YD</u>	<u>LOCATION</u>
	IL 84
88.0	Sta 1484+84 - 1485+14
86.0	Sta 1493+88 - 1494+18
174.0	TOTAL

48203019 HOT-MIX ASPHALT SHOULDERS, 5 1/2"

<u>SQ YD</u>	<u>LOCATION</u>
	IL 84
1,127.8	Sta 1482+50 - 1497+00 RT
1,127.8	Sta 1482+50 - 1497+00 LT
2,255.6	TOTAL

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	Sta 1484+99
1.0	TOTAL

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	Sta 1494+03
1.0	TOTAL

51500100 NAME PLATES

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	Sta 1484+99
1.0	Sta 1494+03
2.0	TOTAL

542D0220 PIPE CULVERTS, CLASS D, TYPE 1 15"

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
43.0	Sta 1486+34 - 1486+89 LT
51.0	Sta 1487+51 - 1488+14 RT
94.0	TOTAL

5421D036 PIPE CULVERTS, CLASS D, TYPE 1 36" (TEMPORARY)

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
20.0	Sta 1484+99
20.0	TOTAL

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

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
20.0	Sta 1494+03
20.0	TOTAL

54213450 END SECTIONS 15"

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	Sta 1486+37 LT
1.0	Sta 1486+86 LT
1.0	Sta 1487+54 RT
1.0	Sta 1488+11 RT
4.0	TOTAL

54215408 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	As Needed & Directed by the Resident Engineer
1.0	TOTAL

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

<u>EACH</u>	<u>LOCATION</u>
	IL 84
2.0	Sta 1484+84 LT/RT
2.0	Sta 1485+14 LT/RT
2.0	Sta 1494+14 LT/RT
6.0	TOTAL

60100915 PIPE DRAIN 6"

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
9.0	Sta 1484+99
25.0	As Needed and Direct by the Resident Engineer
25.0	As Needed and Direct by the Resident Engineer
59.0	TOTAL

60107600 PIPE UNDERDRAINS 4"

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
126.0	Sta 1484+84
126.0	Sta 1485+14
103.0	Sta 1493+88
355.0	TOTAL

SCHEDULE OF QUANTITIES

61100500 EXPLORATION TRENCH 52" DEPTH

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
50.0	Sta 1484 +87 - 1485+ 12 LT/RT
50.0	Sta 1493 +90 - 1494+ 15 LT/RT
<u>100.0</u>	TOTAL

61101009 STORM SEWERS PROTECTED, CLASS A, 8"

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
100.0	As Needed & Directed by the Resident Engineer
<u>100.0</u>	TOTAL

61133100 FIELD TILE JUNCTION VAULTS, 2 DIA.

<u>EACH</u>	<u>LOCATION</u>
	IL 84
2.0	Sta 1484 +99 RT & LT
2.0	Sta 1494 +03 RT & LT
<u>4.0</u>	TOTAL

63200310 GUARDRAIL REMOVAL

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
288.0	Sta 1483 +44 - 1486+ 35 LT
214.0	Sta 1483 +77 - 1485+ 88 RT
139.0	Sta 1492 +99 - 1494+ 38 RT
<u>126.0</u>	Sta 1493 +74 - 1495+ 00 LT
767.0	

63500105 DELINEATORS

<u>EACH</u>	<u>LOCATION</u>
	IL 84
4.0	Sta 1484 +99
4.0	Sta 1494 +03
<u>8.0</u>	TOTAL

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	Sta 1483 +00 40.00' RT
1.0	Sta 1483 +06 54.00' LT
1.0	Sta 1484 +00 60.00' RT
1.0	Sta 1484 +00 70.00' LT
1.0	Sta 1484 +75 65.00' RT
1.0	Sta 1484 +75 115.00' LT
1.0	Sta 1485 +25 65.00' RT
1.0	Sta 1485 +25 115.00' LT
1.0	Sta 1486 +00 55.00' LT
1.0	Sta 1487 +00 55.00' RT
1.0	Sta 1487 +00 55.00' LT
1.0	Sta 1488 +00 65.00' RT
1.0	Sta 1488 +00 80.00' LT
1.0	Sta 1488 +55 70.00' RT
1.0	Sta 1490 +00 75.00' RT
1.0	Sta 1491 +00 75.00' RT
1.0	Sta 1491 +00 70.00' LT
1.0	Sta 1492 +00 65.00' LT
1.0	Sta 1493 +00 65.00' RT
1.0	Sta 1493 +00 55.00' LT
1.0	Sta 1493 +00 55.00' LT
1.0	Sta 1493 +50 55.00' LT
1.0	Sta 1493 +75 90.00' RT
1.0	Sta 1493 +75 85.00' LT
1.0	Sta 1494 +25 90.00' RT
1.0	Sta 1494 +50 85.00' LT
1.0	Sta 1495 +00 60.00' RT
1.0	Sta 1495 +00 55.00' LT
1.0	Sta 1496 +00 50.00' LT
1.0	Sta 1497 +00 40.00' RT
1.0	Sta 1497 +00 40.00' LT
<u>30.0</u>	TOTAL

66700305 PERMANENT SURVEY MARKERS, TYPE II

<u>EACH</u>	<u>LOCATION</u>
	IL 84
2.0	As Directed by the Resident and Coordination with Surveys
<u>2.0</u>	TOTAL

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	As required per Standard 701321 Stage I&II SN 043-1100
1.0	As required per Standard 701321 Stage I&II SN 043-1101
<u>2.0</u>	TOTAL

70106700 TEMPORARY RUMBLE STRIPS

<u>EACH</u>	<u>LOCATION</u>
	IL 84
12.0	As required per Standard 701321
<u>12.0</u>	TOTAL

70300100 SHORT TERM PAVEMENT MARKING

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
61.6	Sta 1481 +75 - 1497 +75 White Shoulder LT
61.6	Sta 1481 +75 - 1497 +75 White Shoulder RT
160.0	Sta 1481 +75 - 1497 +75 Yellow Centerline
<u>283.2</u>	TOTAL

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

<u>FOOT</u>	<u>LOCATION</u>
	IL 84
336.0	Sta 1483 +28 - 1486 +59 Stage I RT
514.0	Sta 1482 +57 - 1487 +68 Stage I LT
434.0	Sta 1482 +87 - 1487 +18 Stage II RT
283.0	Sta 1483 +53 - 1486 +39 Stage II LT
353.0	Sta 1492 +10 - 1495 +60 Stage III RT
613.0	Sta 1491 +12 - 1497 +22 Stage III LT
518.0	Sta 1491 +44 - 1496 +59 Stage IV RT
308.0	Sta 1492 +45 - 1495 +50 Stage IV LT
<u>3,359.0</u>	TOTAL

SCHEDULE OF QUANTITIES

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	LOCATION
	IL 84
12.0	Sta 1481 + 92 Stages I and II
12.0	Sta 1487 + 78 Stages I and II
12.0	Sta 1490 + 52 Stages III and IV
12.0	Sta 1497 + 32 Stages III and IV
<u>48.0</u>	TOTAL

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION
	IL 84
21.3	Sta 1481 + 75 - 1497 + 75 White Shoulder LT
21.3	Sta 1481 + 75 - 1497 + 75 White Shoulder RT
53.3	Sta 1481 + 75 - 1497 + 75 Yellow Centerline
112.0	Sta 1483 + 28 - 1486 + 59 Stage I RT
171.3	Sta 1482 + 57 - 1487 + 68 Stage I LT
144.7	Sta 1482 + 87 - 1487 + 18 Stage II RT
94.3	Sta 1483 + 53 - 1486 + 39 Stage II LT
117.7	Sta 1492 + 10 - 1495 + 60 Stage III RT
204.3	Sta 1491 + 12 - 1497 + 22 Stage III LT
172.7	Sta 1491 + 44 - 1496 + 59 Stage IV RT
102.7	Sta 1492 + 45 - 1495 + 50 Stage IV LT
24.0	Sta 1481 + 92 Stages I and II
24.0	Sta 1487 + 78 Stages I and II
24.0	Sta 1490 + 52 Stages III and IV
24.0	Sta 1497 + 32 Stages III and IV
<u>1,311.6</u>	TOTAL

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
	IL 84
275.0	Sta 1483 + 67 - 1486 + 34 Stage I
<u>337.5</u>	Sta 1492 + 36 - 1495 + 71 Stage III
612.5	TOTAL

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
	IL 84
275.0	Sta 1483 + 70 - 1486 + 35 Stage II
<u>262.5</u>	Sta 1492 + 80 - 1495 + 38 Stage IV
537.5	TOTAL

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
	IL 84
1.0	Sta 1483 + 54 Stage I
1.0	Sta 1486 + 47 Stage I
1.0	Sta 1492 + 23 Stage III
1.0	Sta 1495 + 85 Stage III
<u>4.0</u>	TOTAL

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION
	IL 84
1.0	Sta 1483 + 57 Stage II
1.0	Sta 1486 + 48 Stage II
1.0	Sta 1492 + 66 Stage IV
1.0	Sta 1495 + 52 Stage IV
<u>4.0</u>	TOTAL

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
	IL 84
1,600.0	Sta 1481 + 75 - 1497 + 75 White Shoulder LT
1,600.0	Sta 1481 + 75 - 1497 + 75 White Shoulder RT
1,600.0	Sta 1481 + 75 - 1497 + 75 Yellow Centerline LT
1,600.0	Sta 1481 + 75 - 1497 + 75 Yellow Centerline RT
<u>6,400.0</u>	TOTAL

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION
	IL 84
<u>20.0</u>	Sta 1481 + 75 - 1497 + 75 @ 80'-0"
20.0	TOTAL

78300100 PAVEMENT MARKING REMOVAL

SQ FT	LOCATION
	IL 84
114.6	Sta 1481 + 92 - 1483 + 64 Stage I CL
92.6	Sta 1486 + 41 - 1487 + 80 Stage I CL
221.8	Sta 1483 + 27 - 1486 + 60 Stage I RT
192.5	Sta 1483 + 51 - 1486 + 40 Stage I LT
133.2	Sta 1490 + 52 - 1492 + 52 Stage III CL
123.9	Sta 1495 + 46 - 1497 + 32 Stage III CL
233.1	Sta 1492 + 11 - 1495 + 61 Stage III RT
<u>203.1</u>	Sta 1492 + 45 - 1495 + 50 Stage III LT
1,314.8	TOTAL

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
	IL 84
<u>20.0</u>	Sta 1481 + 75 - 1497 + 75
20.0	TOTAL

Z0025505 PROPERTY MARKERS

EACH	LOCATION
	IL 84
<u>10.0</u>	As Needed & Directed by the Resident Engineer
10.0	TOTAL

SCHEDULE OF QUANTITIES

Z0054400 ROCK FILL

<u>CU YD</u>	<u>LOCATION</u>
	IL 84
30.8	Sta 1484 + 99 RT End Section, 1'
82.3	Sta 1484 + 99 Culvert & LT End Section, 2'-10"
45.5	Sta 1494 + 03 Culvert, 1'-6"
<u>158.6</u>	TOTAL

Z0062456 TEMPORARY PAVEMENT

<u>SQ YD</u>	<u>LOCATION</u>
	IL 84
24.0	Sta 1484 + 84 - 1485 + 14
23.3	Sta 1493 + 88 - 1494 + 18
<u>47.3</u>	TOTAL

Z0073002 TEMPORARY SOIL RETENTION SYSTEM

<u>SQ FT</u>	<u>LOCATION</u>
	IL 84
201.80	Sta 1484 + 87 - 1485 + 13 Stage I
201.80	Sta 1484 + 87 - 1485 + 13 Stage II
184.20	Sta 1493 + 90 - 1494 + 16 Stage I
184.20	Sta 1493 + 90 - 1494 + 16 Stage II
<u>772.00</u>	TOTAL

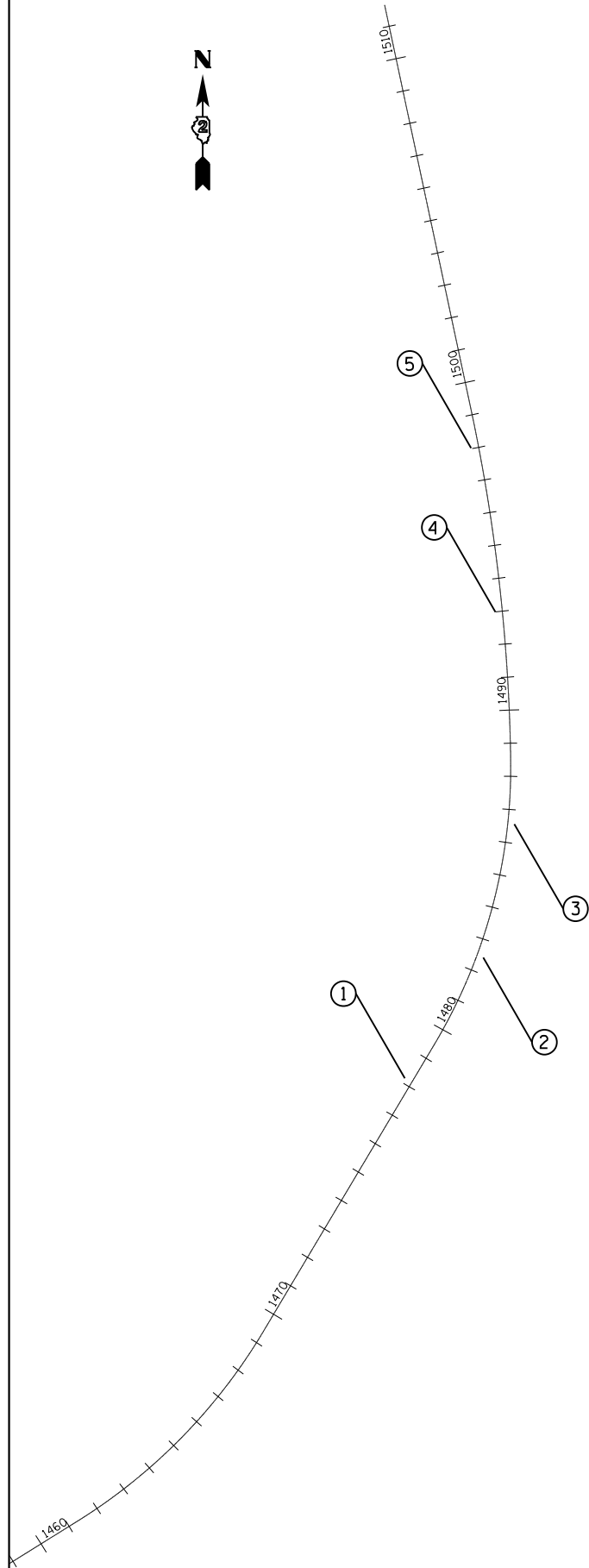
A2006514 TREE, QUERCUS BICOLOR (SWAMP WHITE OAK),
1-3/4" CALIPER, BALLED AND BURLAPPED

<u>EACH</u>	<u>LOCATION</u>
	IL 84
1.0	As Needed & Directed by the Resident Engineer
<u>1.0</u>	TOTAL

X4400110 TEMPORARY PAVEMENT REMOVAL

<u>SQ YD</u>	<u>LOCATION</u>
	IL 84
24.0	Sta 1484 + 84 - 1485 + 14
23.3	Sta 1493 + 88 - 1494 + 18
<u>47.3</u>	TOTAL

HORIZONTAL & VERTICAL CONTROL



Chain IL84 contains:
CUR 280 CUR 290 CUR 300 1003

Beginning chain IL84 description

Point 50 N 2,103,641.3100 E 2,219,022.8080 Sta 1339+23.0300

Course from PT 270 to PC 280 58° 05' 27.0760" Dist 290.0734'

Curve Data

Curve 280
P.I. Station 1465+41.8276 N 2,114,676.6747 E 2,221,991.1855
Delta = 27° 18' 07.5341" (LT)
Degree = 3° 21' 59.9802"
Tangent = 413.3280'
Length = 810.9546'
Radius = 1,701.8576'
External = 49.4731'
Long Chord = 803.3039'
Mid. Ord. = 48.0756'
P.C. Station 1461+28.4996 N 2,114,458.2004 E 2,221,640.3166
P.T. Station 1469+39.4542 N 2,115,031.7484 E 2,222,202.7575
C.C. N 2,115,902.8857 E 2,220,740.7592

Course from PT 280 to PC 290 30° 47' 19.5421" Dist 1,009.0844'

Curve Data

Curve 290
P.I. Station 1484+13.4427 N 2,116,297.9934 E 2,222,957.2545
Delta = 31° 42' 11.9557" (LT)
Degree = 3° 29' 57.8622"
Tangent = 464.9041'
Length = 905.9629'
Radius = 1,637.3001'
External = 64.7244'
Long Chord = 894.4495'
Mid. Ord. = 62.2631'
P.C. Station 1479+48.5386 N 2,115,898.6128 E 2,222,719.2820
P.T. Station 1488+54.5015 N 2,116,762.8383 E 2,222,949.8339
C.C. N 2,116,736.7047 E 2,221,312.7424

Curve Data

Curve 300
P.I. Station 1493+87.2730 N 2,117,295.5420 E 2,222,941.3302
Delta = 11° 08' 35.5736" (LT)
Degree = 1° 02' 56.7126"
Tangent = 532.7716'
Length = 1,062.1823'
Radius = 5,461.4907'
External = 25.9246'
Long Chord = 1,060.5091'
Mid. Ord. = 25.8021'
P.C. Station 1488+54.5015 N 2,116,762.8383 E 2,222,949.8339
P.T. Station 1499+16.6838 N 2,117,816.5593 E 2,222,830.0353
C.C. N 2,116,675.6653 E 2,217,489.0390

Course from PT 300 to 1003 347° 56' 32.0127" Dist 1,249.1523'

Point 1003 N 2,119,038.1521 E 2,222,569.0900 Sta 1511+65.8361

Ending chain IL84 description

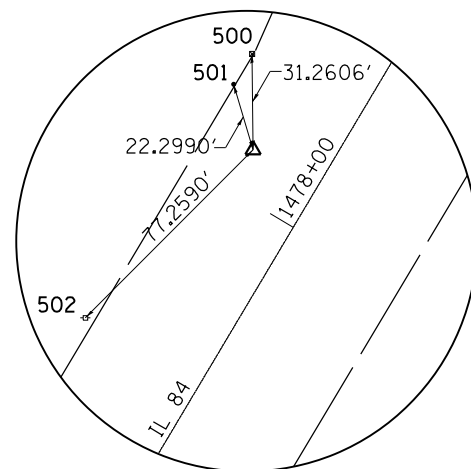
CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL84	280	280	281	282	283
IL84	290	290	291	292	293
IL84	300	300	301	302	303

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2113186.7705	2220659.3903	895.1180	IL84	1444+69.2912	27.3919' RT	HEADWALL, CHISELED SQUARE
401	2114551.8352	2221735.1287	884.0599	IL84	1462+60.4946	24.3272' LT	HEADWALL, CHISELED SQUARE
402	2116170.6296	2222879.3120	884.8335	IL84	1482+60.6371	28.4074' RT	HEADWALL, CHISELED SQUARE
403	2111863.7970	2219267.8670	884.0550	IL84	1425+41.6665	39.8841' LT	R.O.W. MARKER, TOP
404	2113996.5310	2221094.3670	897.3490	IL84	1454+02.5538	39.4469' RT	R.O.W. MARKER, TOP
405	2117880.2393	2222771.6696	899.8721	IL84	1499+91.1514	43.7754' LT	POWER POLE, RAIL ROAD SPIKE

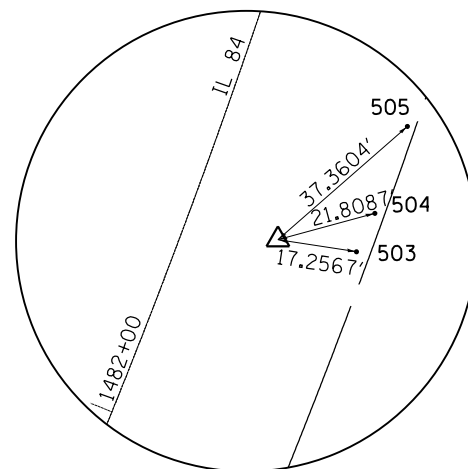
HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2115796.2173	2222630.1389	896.0824	IL84	1478+14.9447	24.1656' LT	TOPO SURVEY POINT, PIN
2	2116161.0192	2222866.9762	885.5198	IL84	1482+47.5670	20.1246' RT	TOPO SURVEY POINT, PIN
3	2116563.9998	2222960.9037	881.8767	IL84	1486+57.4238	19.8851' RT	TOPO SURVEY POINT, PIN
4	2117204.6242	2222903.9484	885.4186	IL84	1492+99.1466	20.8068' LT	TOPO SURVEY POINT, PIN
5	2117699.9760	2222830.3802	890.4820	IL84	1498+02.1135	22.8201' LT	TOPO SURVEY POINT, PIN

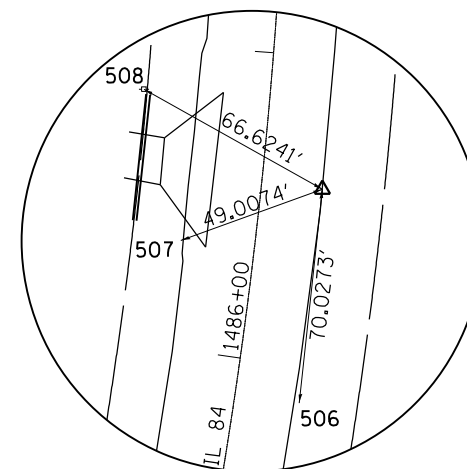
REFERENCE TIES							
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION	
500	2115827.4763	2222629.8220	IL84	1478+41.6358	40.4386' LT	R.O.W. MARKER, BACK	
501	2115817.6058	2222623.8321	IL84	1478+30.0904	40.5318' LT	FENCE POST, SHINER	
502	2115741.5165	2222575.5791	IL84	1477+40.0256	43.0359' LT	POWER POLE, SHINER	
503	2116158.3951	2222884.0322	IL84	1482+50.9539	37.0337' RT	FENCE POST, SHINER	
504	2116166.7489	2222888.0188	IL84	1482+59.9619	37.9149' RT	GATE POST, SHINER	
505	2116185.6229	2222895.0913	IL84	1482+79.6564	38.2652' RT	GATE POST, SHINER	
506	2116494.3776	2222953.3819	IL84	1485+88.2689	21.139' RT	GUARDRAIL STEEL PLATE BEAM, END	
507	2116547.3335	2222914.8173	IL84	1486+35.7257	24.0718' LT	GUARDRAIL STEEL PLATE BEAM, END	
508	2116596.6035	2222902.8023	IL84	1486+84.4748	41.0799' LT	POWER POLE, SHINER	
509	2117278.3505	2222896.4481	IL84	1493+73.5357	20.599' LT	GUARDRAIL STEEL PLATE BEAM, END	
510	2117208.9794	2222946.5940	IL84	1492+99.3343	22.0602' RT	GUARDRAIL STEEL PLATE BEAM, END	
511	2117104.9333	2222893.6845	IL84	1492+00.1990	39.8245' LT	R.O.W. MARKER, BACK	
512	2117880.2477	2222771.7427	IL84	1499+91.1443	43.7021' LT	POWER POLE, SHINER	
513	2117761.5596	2222828.9571	IL84	1498+63.0013	12.2805' LT	PAVEMENT STATION NUMBER	
514	2117616.2402	2222827.2320	IL84	1497+19.8475	41.0677' LT	POWER POLE, SHINER	



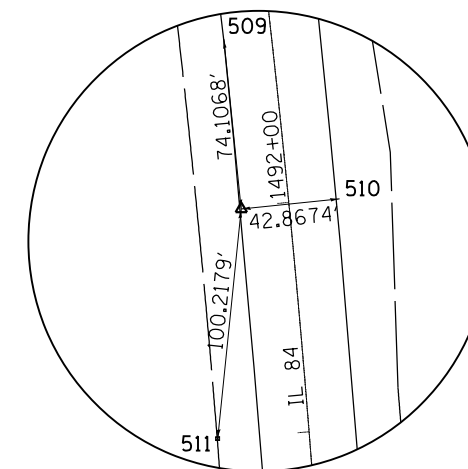
HORIZONTAL CONTROL POINT No. 1



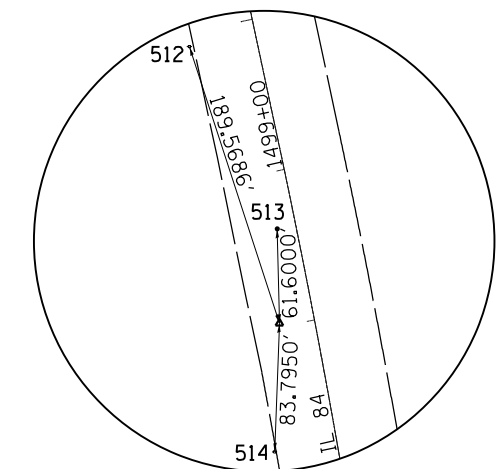
HORIZONTAL CONTROL POINT No. 2



HORIZONTAL CONTROL POINT No. 3



HORIZONTAL CONTROL POINT No. 4



HORIZONTAL CONTROL POINT No. 5

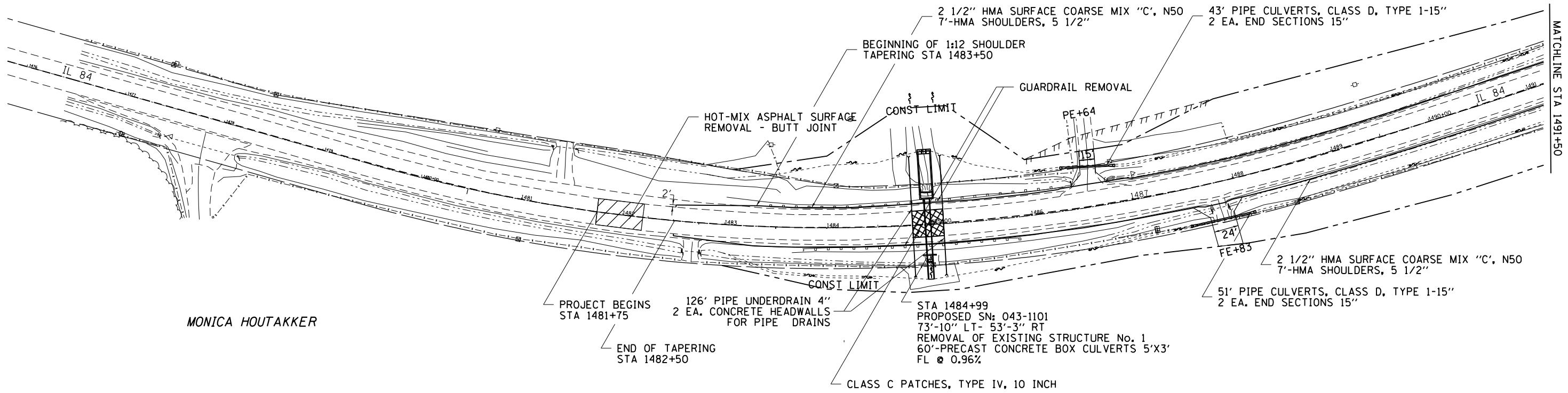
SPEED LIMIT ≤ 55MPH

GALENA ←

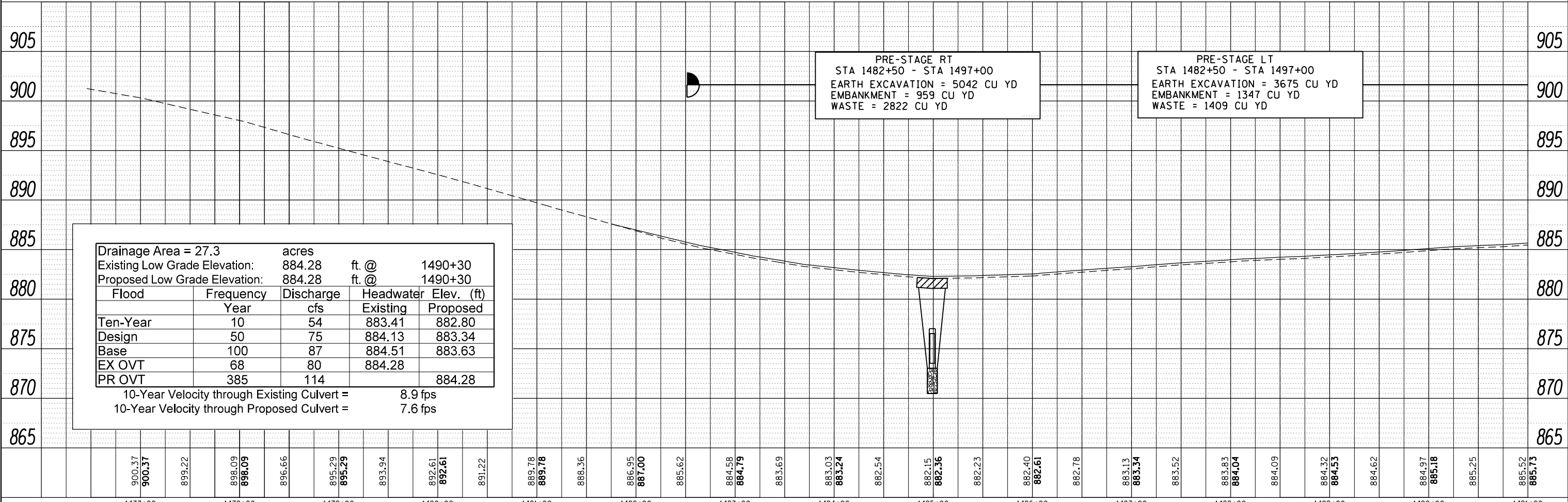
MONICA HOUTAKKER



PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	FILE NAME	



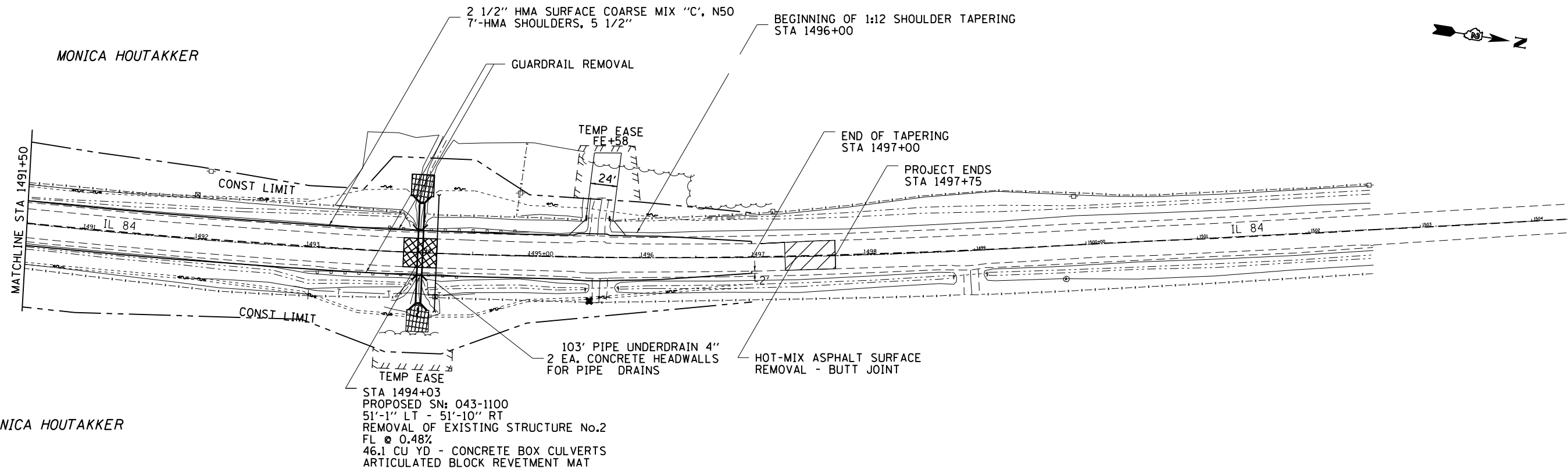
Drainage Area = 27.3 acres				
Existing Low Grade Elevation:		884.28	ft. @	1490+30
Proposed Low Grade Elevation:		884.28	ft. @	1490+30
Flood	Frequency	Discharge	Headwater Elev. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	54	883.41	882.80
Design	50	75	884.13	883.34
Base	100	87	884.51	883.63
EX OVT	68	80	884.28	
PR OVT	385	114		884.28

10-Year Velocity through Existing Culvert = 8.9 fps
 10-Year Velocity through Proposed Culvert = 7.6 fps

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				IL 84 Plan and Profile				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
c:\pwork\pwork\dossdd\0233029\0201410	dossdd	DRAWN -	REVISED -									570	101T	JO DAIVISS	64	21				
		CHECKED -	REVISED -									SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 64F75			
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT								

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

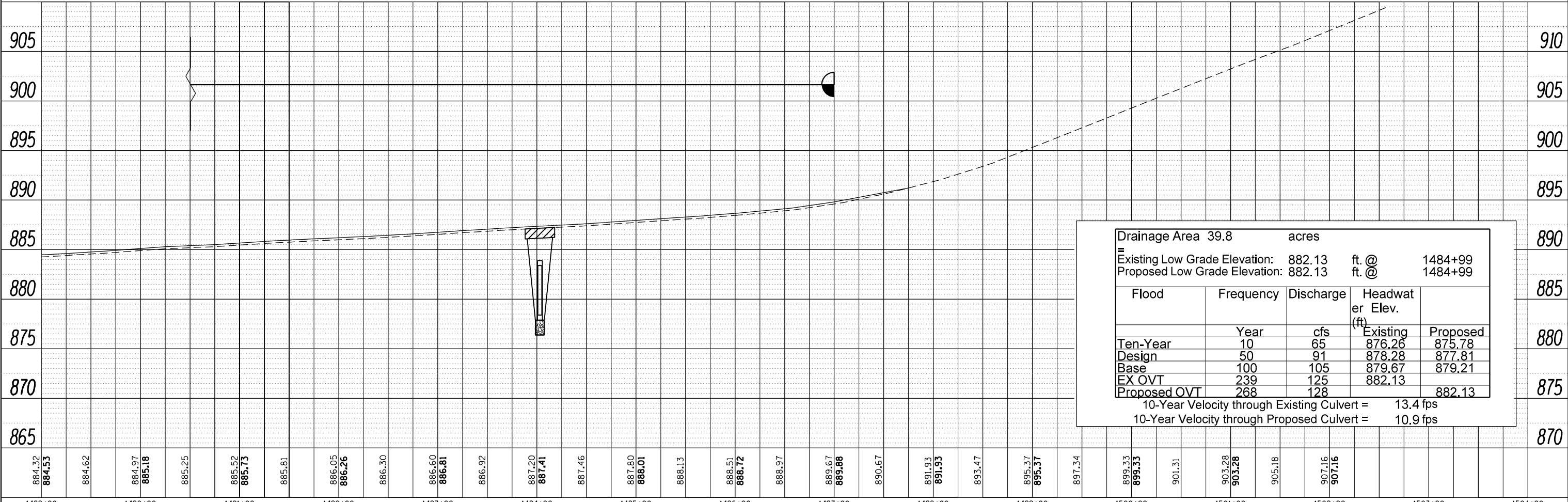


MONICA HOUTAKKER

MONICA HOUTAKKER

STA 1494+03
 PROPOSED SN: 043-1100
 51'-1" LT - 51'-10" RT
 REMOVAL OF EXISTING STRUCTURE No.2
 FL @ 0.48%
 46.1 CU YD - CONCRETE BOX CULVERTS
 ARTICULATED BLOCK REVETMENT MAT

✕ = TREE REMOVAL



Drainage Area 39.8 acres				
Existing Low Grade Elevation:		882.13	ft. @	1484+99
Proposed Low Grade Elevation:		882.13	ft. @	1484+99
Flood	Frequency	Discharge	Headwater Elev.	
	Year	cfs	Existing	Proposed
Ten-Year	10	65	876.26	875.78
Design	50	91	878.28	877.81
Base	100	105	879.67	879.21
EX OVT	239	125	882.13	
Proposed OVT	268	128		882.13

10-Year Velocity through Existing Culvert = 13.4 fps
 10-Year Velocity through Proposed Culvert = 10.9 fps

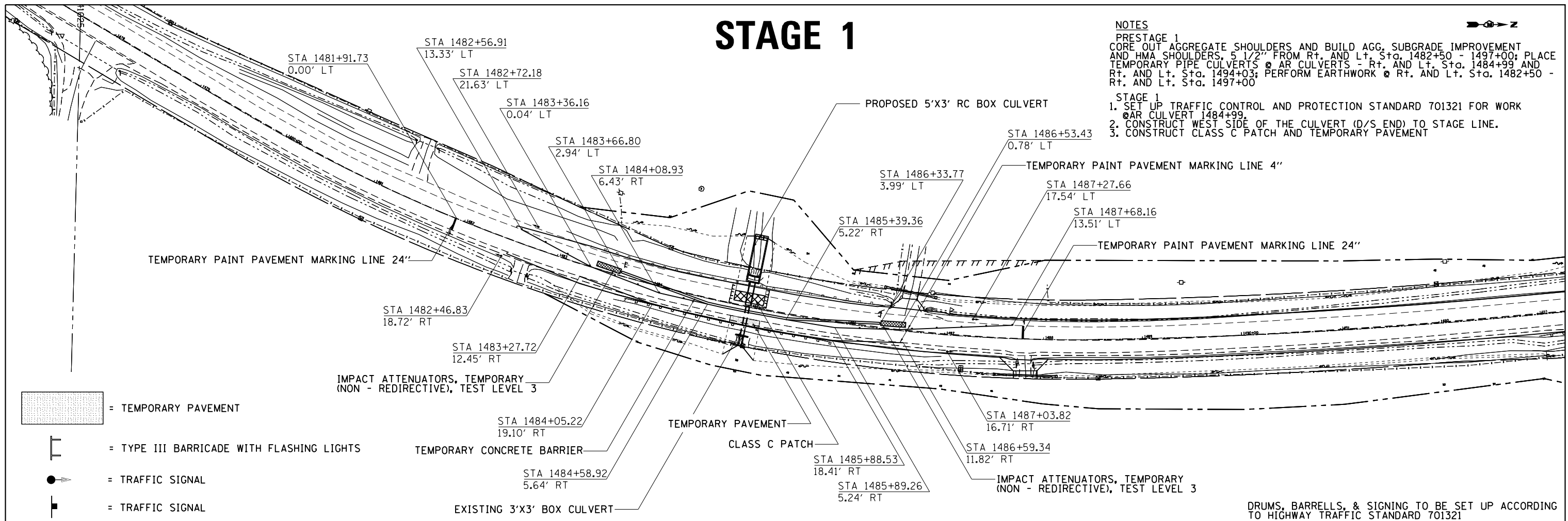
STAGE 1

NOTES

PRESTAGE 1
CORE OUT AGGREGATE SHOULDERS AND BUILD AGG. SUBGRADE IMPROVEMENT AND HMA SHOULDERS, 5 1/2" FROM Rt. AND Lt. Sta. 1482+50 - 1497+00; PLACE TEMPORARY PIPE CULVERTS @ AR CULVERTS - Rt. AND Lt. Sta. 1484+99 AND Rt. AND Lt. Sta. 1494+03; PERFORM EARTHWORK @ Rt. AND Lt. Sta. 1482+50 - Rt. AND Lt. Sta. 1497+00

STAGE 1

1. SET UP TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR WORK @ AR CULVERT 1484+99.
2. CONSTRUCT WEST SIDE OF THE CULVERT (D/S END) TO STAGE LINE.
3. CONSTRUCT CLASS C PATCH AND TEMPORARY PAVEMENT

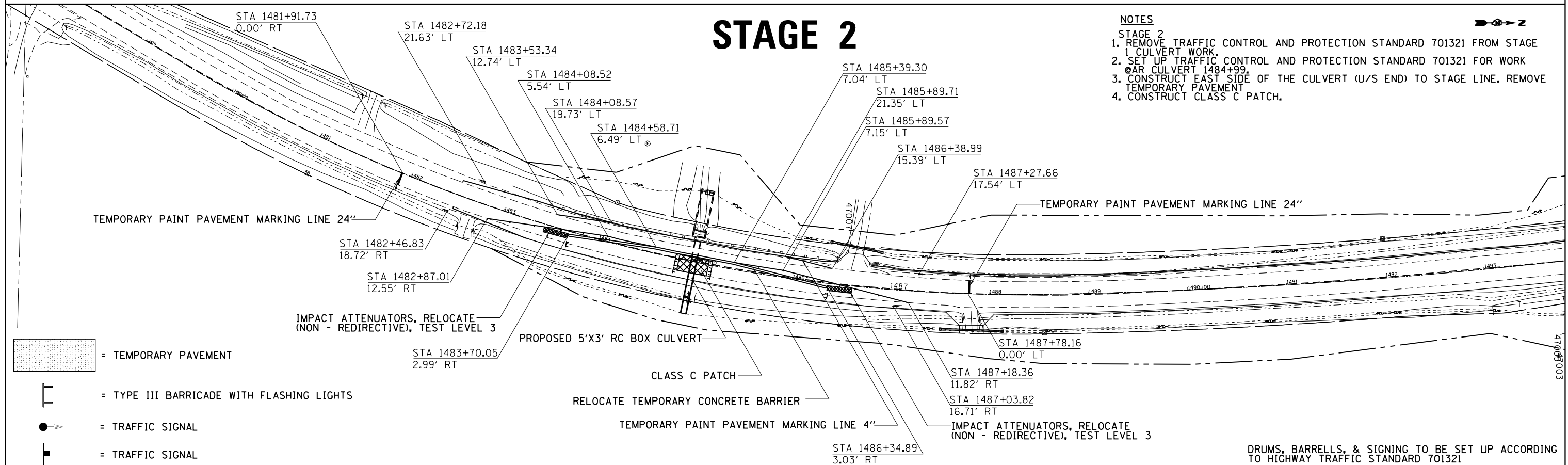


DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO HIGHWAY TRAFFIC STANDARD 701321

STAGE 2

NOTES

- STAGE 2
1. REMOVE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FROM STAGE 1 CULVERT WORK.
 2. SET UP TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR WORK @ AR CULVERT 1484+99.
 3. CONSTRUCT EAST SIDE OF THE CULVERT (U/S END) TO STAGE LINE. REMOVE TEMPORARY PAVEMENT
 4. CONSTRUCT CLASS C PATCH.



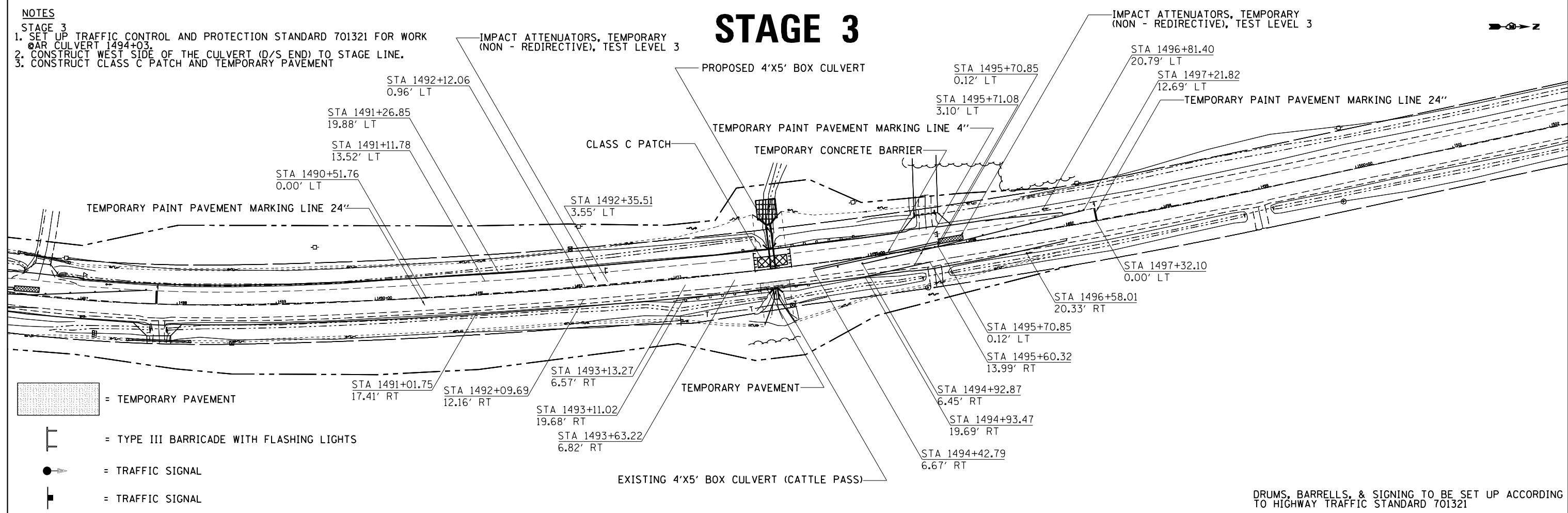
DRUMS, BARRELS, & SIGNING TO BE SET UP ACCORDING TO HIGHWAY TRAFFIC STANDARD 701321

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	0-sh1-staging.dgn	DRAWN -	REVISED -						570	101T	JO DAVISS	64	23
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 64F75				ILLINOIS FED. AID PROJECT				
	PLOT DATE = Tue Jan 22 11:27:31 2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

NOTES

- STAGE 3**
 1. SET UP TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR WORK @**AR CULVERT 1494+03.**
 2. CONSTRUCT WEST SIDE OF THE CULVERT (D/S END) TO STAGE LINE.
 3. CONSTRUCT CLASS C PATCH AND TEMPORARY PAVEMENT

STAGE 3



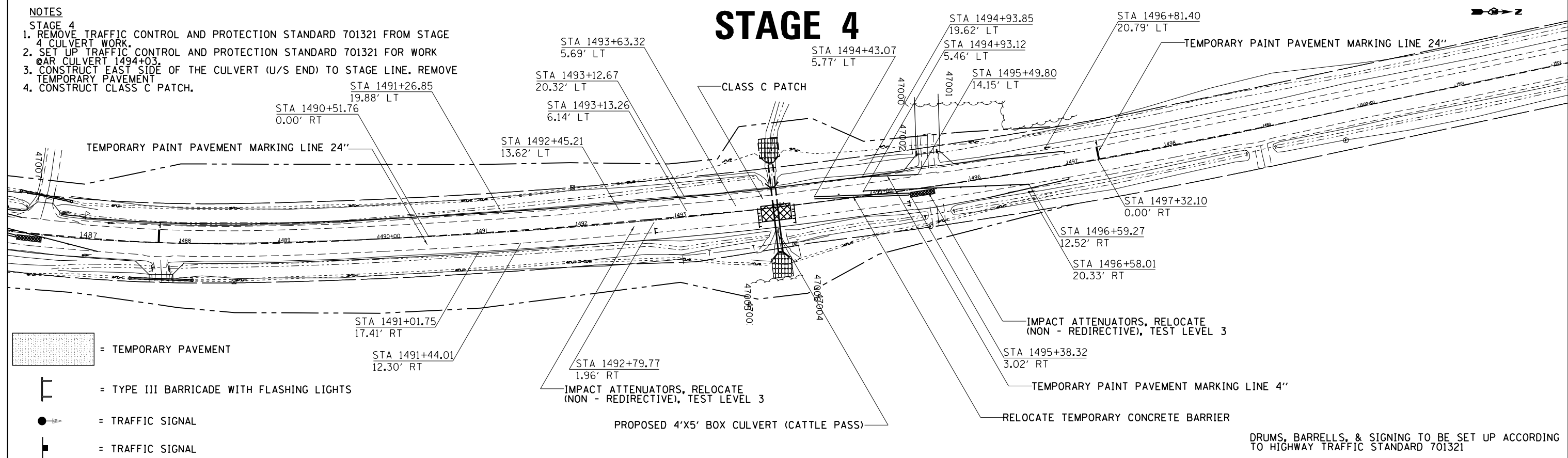
- = TEMPORARY PAVEMENT
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = TRAFFIC SIGNAL
- = TRAFFIC SIGNAL

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

NOTES

- STAGE 4**
 1. REMOVE TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FROM STAGE 3 CULVERT WORK.
 2. SET UP TRAFFIC CONTROL AND PROTECTION STANDARD 701321 FOR WORK @**AR CULVERT 1494+03.**
 3. CONSTRUCT EAST SIDE OF THE CULVERT (U/S END) TO STAGE LINE. REMOVE TEMPORARY PAVEMENT
 4. CONSTRUCT CLASS C PATCH.

STAGE 4



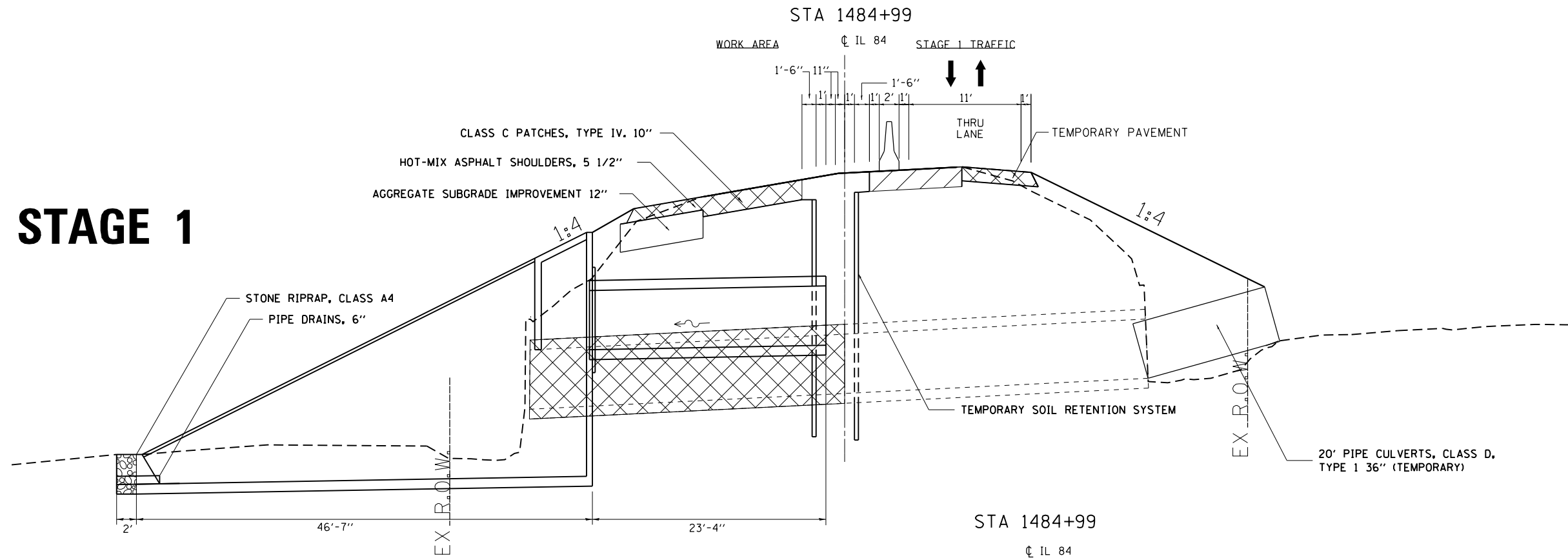
- = TEMPORARY PAVEMENT
- = TYPE III BARRICADE WITH FLASHING LIGHTS
- = TRAFFIC SIGNAL
- = TRAFFIC SIGNAL

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

FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGING DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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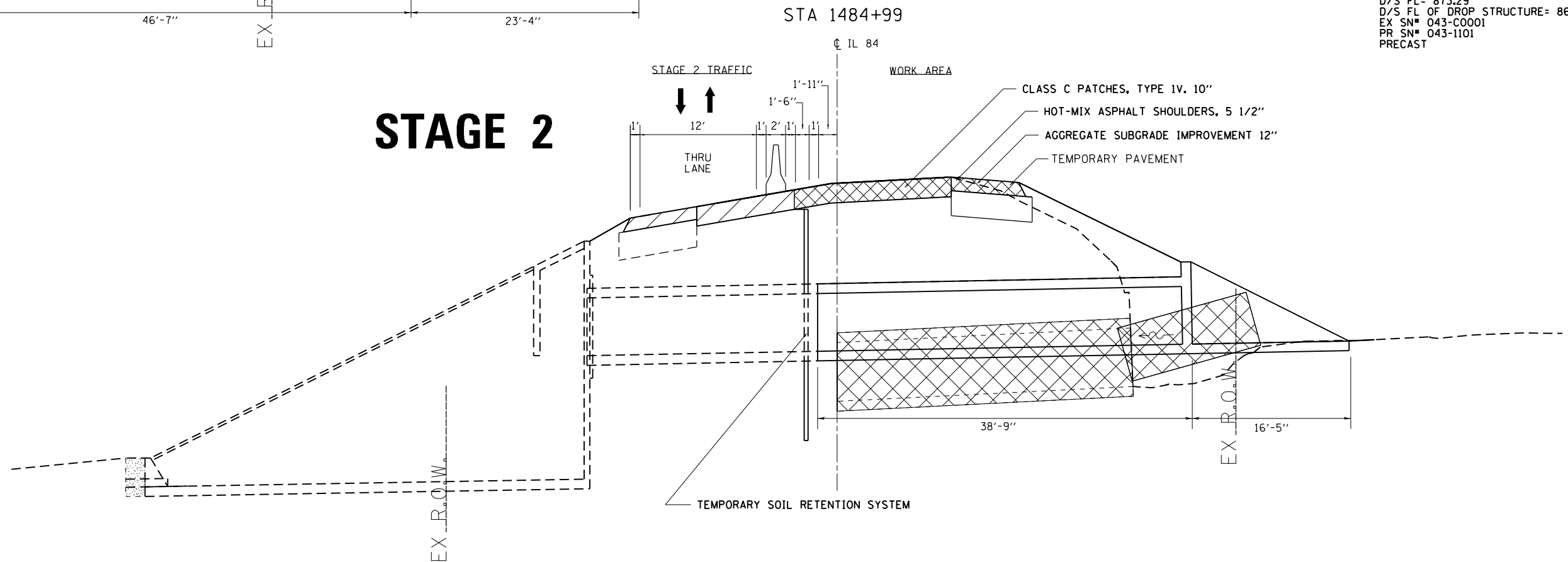
TYPICAL SECTIONS

STAGE 1



STA 1484+99
 REMOVE EXISTING 3'X3' BOX CULVERT
 PROPOSED 5'X3' RC BOX CULVERT
 2 EACH GRATED END SECTIONS
 U/S FL= 873.90'
 D/S FL= 873.29'
 D/S FL OF DROP STRUCTURE= 866.39'
 EX SN# 043-C0001
 PR SN# 043-1101
 PRECAST

STAGE 2



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -
et:\pw\work\p1dot\dosddd\0233029\02014	0-sht-typical.dgn	DRAWN -	REVISED -
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	PLOT DATE = Tue Jan 22 11:24:15 2013	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

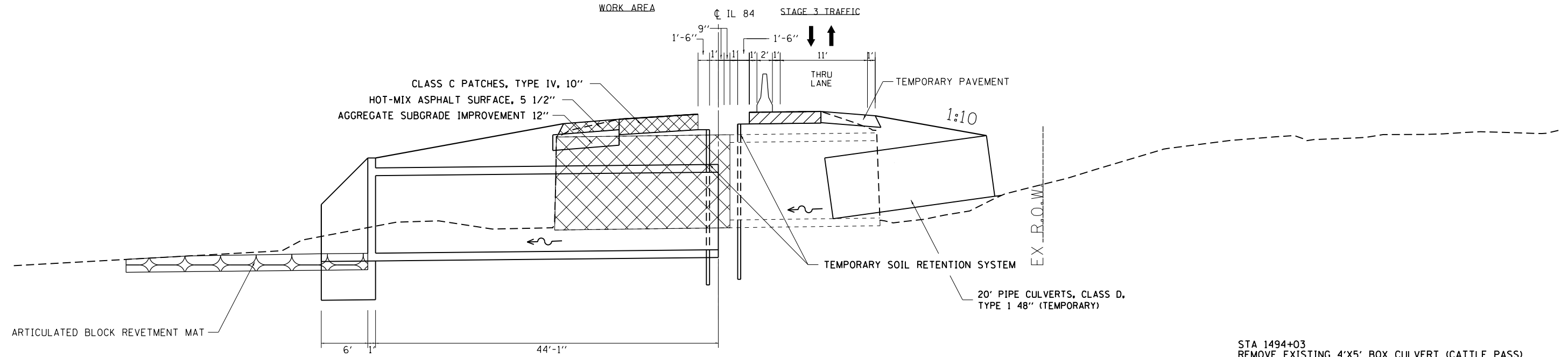
IL 84	
STAGING DETAILS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	25
			CONTRACT NO. 64F75	
ILLINOIS FED. AID PROJECT				

TYPICAL SECTIONS

STA 1494+03

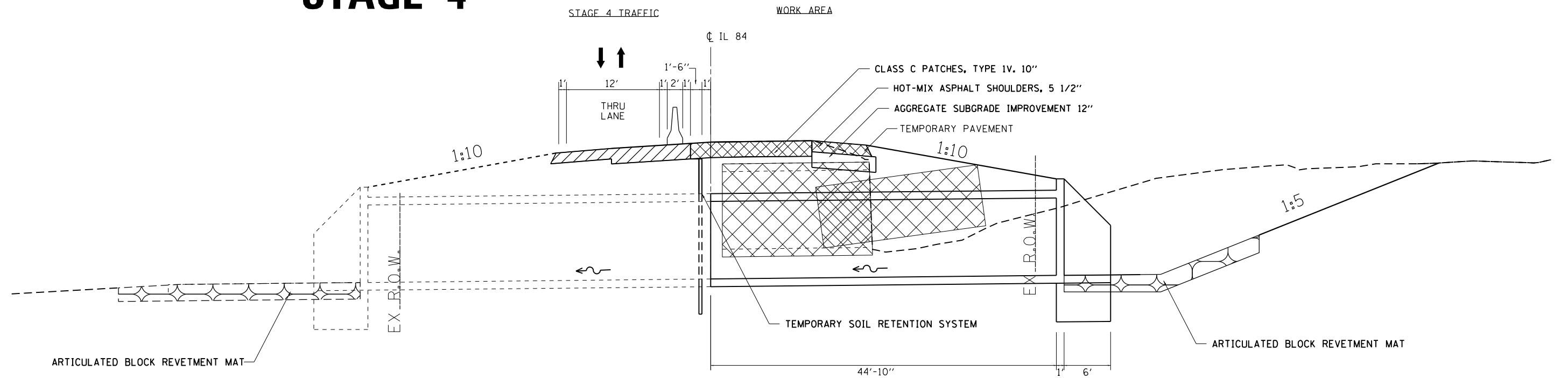
STAGE 3



STA 1494+03
 REMOVE EXISTING 4'X5' BOX CULVERT (CATTLE PASS)
 PREPOSED 4'X5' BOX CULVERT (CATTLE PASS)
 WING WALLS
 U/S FL=878.61FT
 D/S FL=878.17FT
 EX SN# 043-1008
 PR SN# 043-1100
 CAST IN PLACE

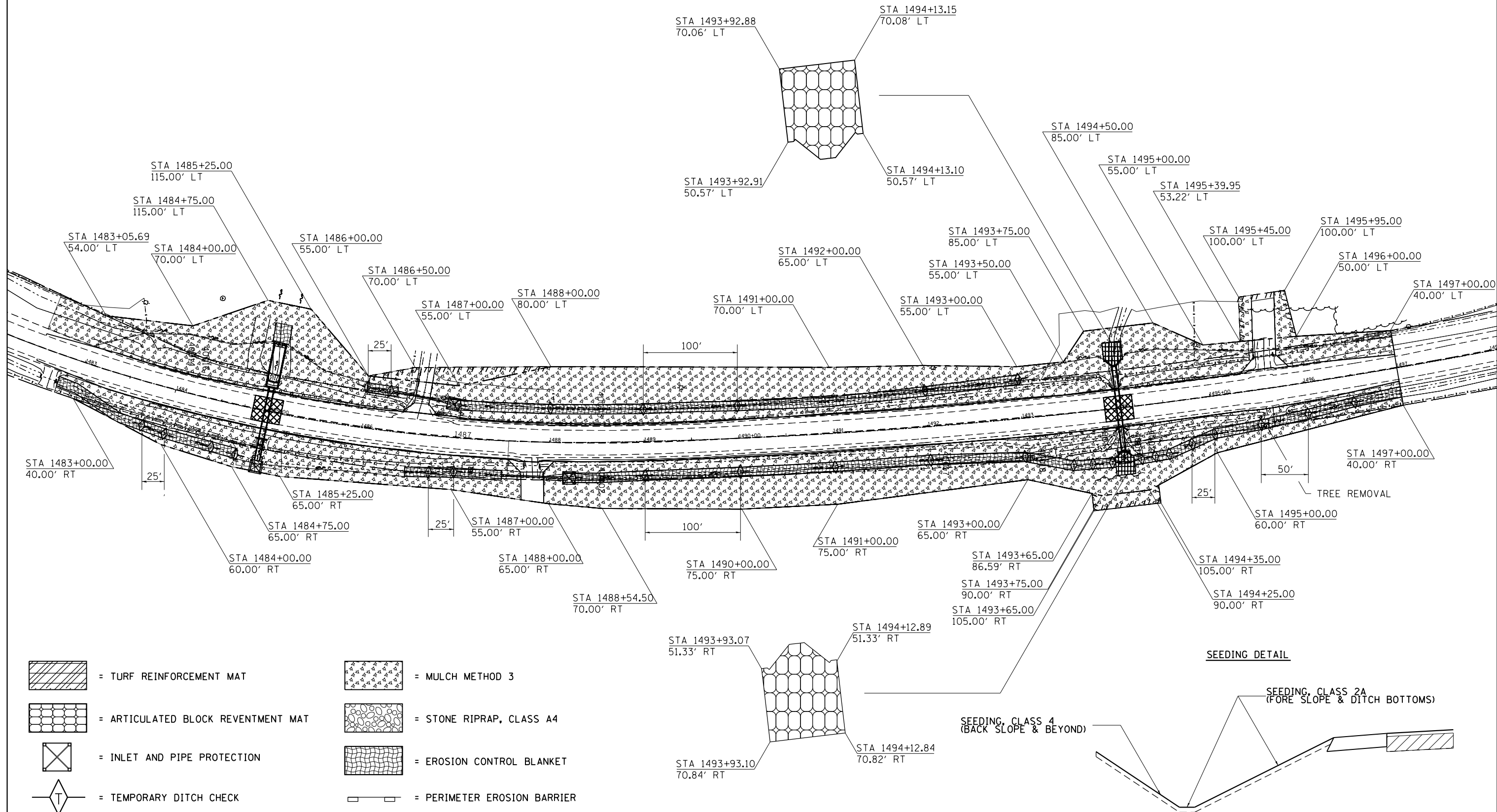
STAGE 4

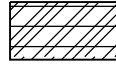
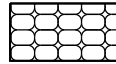



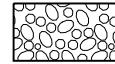
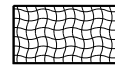
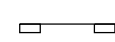
STA 1494+03



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 84 STAGING DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pwork\pwork\dot\dosddd\0233029\02014	0-sh-t-typical.dgn	DRAWN -	REVISED -			570	101T	JO DAVIESS	64	26	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 64F75								
PLOT DATE = Tue Jan 22 11:24:27 2013	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

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



-  = TURF REINFORCEMENT MAT
-  = ARTICULATED BLOCK REVENTMENT MAT
-  = INLET AND PIPE PROTECTION
-  = TEMPORARY DITCH CHECK
-  = MULCH METHOD 3
-  = STONE RIPRAP, CLASS A4
-  = EROSION CONTROL BLANKET
-  = PERIMETER EROSION BARRIER

FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	27
CONTRACT NO. 64F75				
ILLINOIS FED. AID PROJECT				

BORING LOGS



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

SOIL BORING LOG

Page 1 of 1
Date 7/13/10

ROUTE FAP 570 DESCRIPTION P92-014-10 IL 84 culvert, .9 m. N. of Council Hill Road LOGGED BY W. Garza


SECTION 101T LOCATION Vinegar Hill - 25SW, SEC. , TWP. 29N, RNG. 1W

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

STRUCT. NO. Station	D E P T H S	B L O S S	U C S	M O I S T U R E	Surface Water Elev. _____ ft	D E P T H S	B L O S S	U C S	M O I S T U R E
BORING NO. <u>B-2b</u> Station <u>10' N</u> Offset <u>16.00ft E CL</u> Ground Surface Elev. <u>887.00</u> ft									
STIFF light brown SILTY CLAY LOAM			1.0	20.0	VERY DENSE tan weathered LIMESTONE (continued)	866.00	6	100/4"	
			P		End of Boring				
STIFF brown LOAM	885.00	5							
		6	2.0	18.0					
	883.50	5	P						
SOFT brown SILTY LOAM		1							
		4	0.4	23.0					
	881.00	6	P						
STIFF dark brown SILTY LOAM		1							
		4	1.0	27.0					
	878.50	5	B						
SOFT tan SILTY LOAM		2							
		2	0.4	28.0					
	876.00	3	B						
SOFT tan SILTY LOAM		0							
		1	0.3	32.0					
	873.50	2	B						
SOFT light gray SILT		1							
		2	0.3	25.0					
	871.00	3	B						
VERY STIFF tan CLAY LOAM		2							
		4	2.1	20.0					
	868.00	7	B						
		1							

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 7/17/10

ROUTE FAP 570 DESCRIPTION P92-014-10 IL 84 Culvert, .9 m. N. of W. Council Hill Road LOGGED BY W. Garza

SECTION 101T LOCATION Vinegar Hill Twp. - 25SW, SEC. , TWP. 29N, RNG. 1W

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

STRUCT. NO. Station	D E P T H S	B L O S S	U C S	M O I S T U R E	Surface Water Elev. _____ ft	D E P T H S	B L O S S	U C S	M O I S T U R E
BORING NO. <u>B-1b</u> Station <u>15' S</u> Offset <u>14.00ft W CL</u> Ground Surface Elev. <u>886.00</u> ft									
MEDIUM brown SILTY CLAY LOAM		0.6	22.0		VERY DENSE tan weathered LIMESTONE (continued)	865.00			
		P			End of Boring				
MEDIUM brown SILTY LOAM	884.00	1							
		2	0.6	29.0					
	882.50	3	P						
STIFF light brown SILTY LOAM		1							
		2	1.3	26.0					
	880.00	3	P						
MEDIUM light brown SILTY CLAY LOAM		0							
		2	0.9	28.0					
	877.50	3	B						
SOFT tan SILTY LOAM		0							
		1	0.3	28.0					
	875.00	3	B						
VERY STIFF gray/tan CLAY LOAM with LIMESTONE fragments		0							
		3	2.9	19.0					
	872.50	6	B						
HARD tan CLAY LOAM		5							
		8	5.0	16.0					
		12	B						
	869.50								
DENSE tan weathered LIMESTONE		1							
		6							
	867.50	27							
		100/9"							

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)

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BORING LOGS



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

SOIL BORING LOG

Page 1 of 1

Date 3/2/10

ROUTE FAP 570 DESCRIPTION P92-014-10 Box Culvert on IL 84, .6 m. N. of Council Hill Road LOGGED BY W. Garza

SECTION 101T LOCATION Vinegar Hill - 25SW, SEC. , TWP. 29N, RNG. 1W

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

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	P	L	S	O	ft	P	L	S	O
BORING NO.	T	O	Qu	I	Stream Bed Elev.	H	S	Qu	I
Station	W	S	T	T	ft	W	S	T	T
Offset	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.:	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.					First Encounter				
					Upon Completion				
					After Hrs.				
0+0					87.30				
B-2					None				
18' N					Dry				
15.00ft W CL									
881.10									
879.10	2				DENSE tan weathered LIMESTONE	21			
877.60	3	1.9	27.0		Auger Refusal at 21.5' (continued)	29			
875.10	4	B			End of Boring				
872.60	4								
870.10	3								
867.60	4	1.3	22.0						
864.60	4	P							
862.60	4	1.1	23.0						
	1								
	3	0.9	24.0						
	4	P							
	3								
	4	1.0	31.0						
	2								
	5	1.7	48.0						
	9	B							
	11								
	21								
	25								
	9								

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 3/2/10

ROUTE FAP 570 DESCRIPTION P92-014-10 Box Culvert 043-C001 on IL 84, .6 m. N. of Council Hill Road LOGGED BY W. Garza

SECTION 101T LOCATION Vinegar Hill - 25SW, SEC. , TWP. 29N, RNG. 1W

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

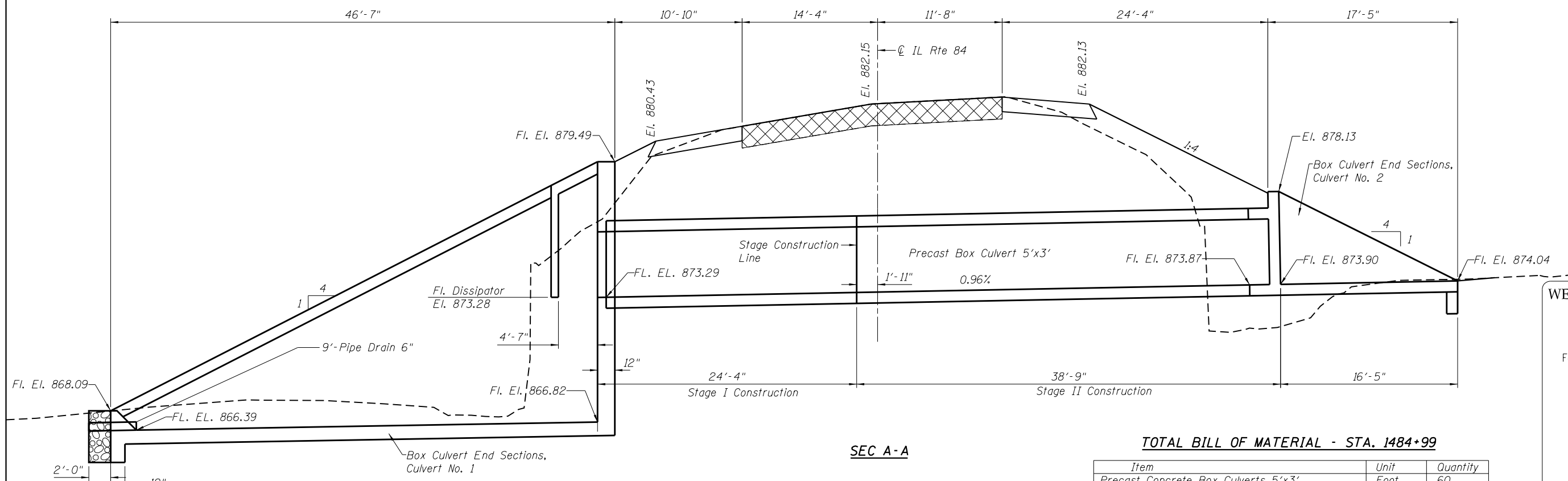
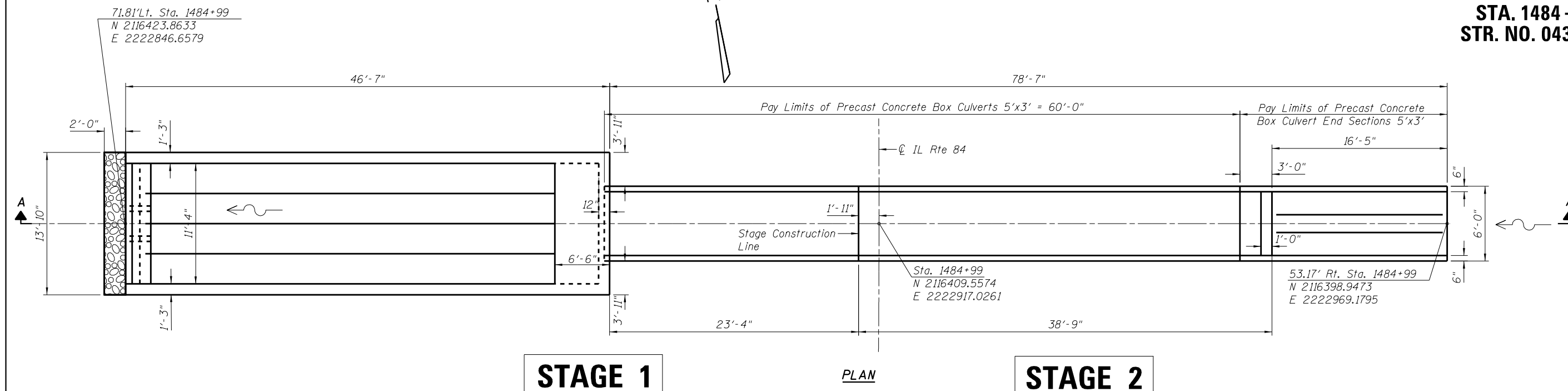
STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	P	L	S	O	ft	P	L	S	O
BORING NO.	T	O	Qu	I	Stream Bed Elev.	H	S	Qu	I
Station	W	S	T	T	ft	W	S	T	T
Offset	(ft)	(/6")	(tsf)	(%)	Groundwater Elev.:	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.					First Encounter				
					Upon Completion				
					After Hrs.				
0+0					87.30				
B-1					None				
14' S					Dry				
15.00ft E CL									
882.20									
880.20	0.8		19.0		MEDIUM brown SILTY CLAY LOAM	11			22.0
878.70	5				STIFF brown SILTY CLAY LOAM	8			
875.70	2	1.5	23.0		STIFF brown SILTY CLAY LOAM	2			
872.70	5	P			STIFF brown SILTY CLAY LOAM	9			
870.70	1				STIFF brown SILTY CLAY LOAM	28			
867.70	5	1.5	24.0		STIFF brown SILTY CLAY LOAM	3			
864.70	6	P			STIFF brown SILTY CLAY LOAM	1	0.4	32.0	
862.70	23				STIFF brown SILTY CLAY LOAM	2	P		
860.70	12				MEDIUM tan weathered LIMESTONE "floater"	0			
858.70	6				MEDIUM tan weathered LIMESTONE (continued)	0	0.6	29.0	
856.70	4				MEDIUM tan weathered LIMESTONE ledge	3	P		
854.70	2				MEDIUM tan CLAY LOAM, very little recovery	0			
852.70	3				MEDIUM tan CLAY LOAM, very little recovery	0	0.2	45.0	
850.70	4				SOFT tan CLAY LOAM with 19% ORGANICS	4	B		
848.70	11	4.5	15.0		SOFT tan CLAY LOAM with 19% ORGANICS	1			
846.70	14	P			SOFT tan CLAY LOAM with 19% ORGANICS	5	0.4	38.0	
844.70	7				VERY SOFT tan LOAM with SAND lens with 18% ORGANICS	4	S		
842.70	10	2.9	22.0		VERY SOFT tan LOAM with SAND lens with 18% ORGANICS	100/1"			
840.70	12	S			VERY STIFF dark gray SILTY CLAY LOAM	35			
838.70	0				VERY STIFF dark gray SILTY CLAY LOAM				
836.70	2	0.7	31.0		VERY STIFF dark gray SILTY CLAY LOAM				
834.70	4	S			VERY STIFF dark gray SILTY CLAY LOAM				
832.70	10				VERY STIFF dark gray SILTY CLAY LOAM				

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 = rundbladerr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = Tue Jan 22 11:54:43 2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

**BOX CULVERT PLAN
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1484 + 99
STR. NO. 043-1101**



TOTAL BILL OF MATERIAL - STA. 1484+99

Item	Unit	Quantity
Precast Concrete Box Culverts 5'x3'	Foot	60
Box Culvert End Sections, Culvert No. 1	Each	1
Box Culvert End Sections, Culvert No. 2	Each	1
Transversable Pipe Grate	Foot	196

WENDLER ENGINEERING SERVICES, INC.
Illinois Professional Design
Firm No. 184-000848
Sheets 1 thru 8
For Structural Adequacy Only



DATE
SCOTT A. BROWN
DIXON, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-005981
EXPIRES 11-30-2014



USER NAME = dossdd	DESIGNED - SB	REVISED - -
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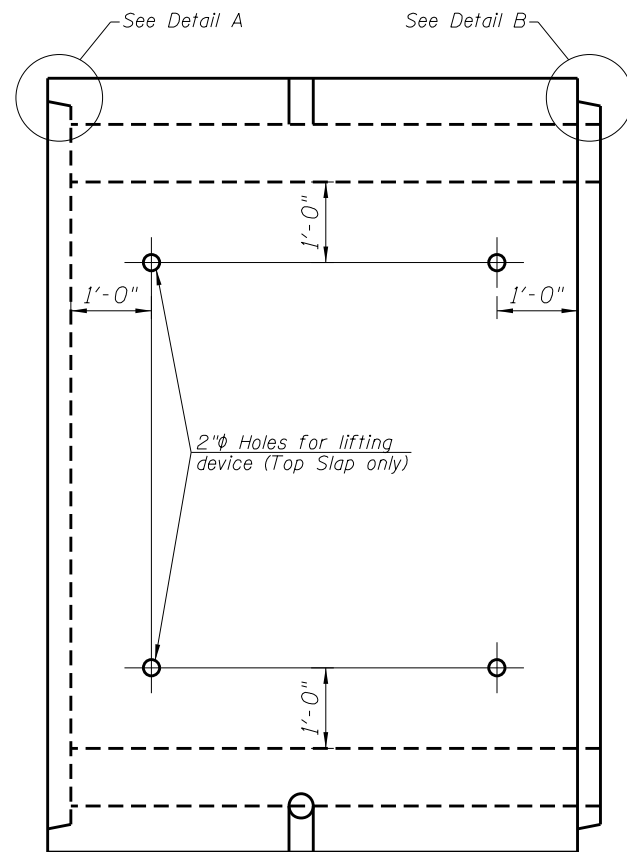
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT PLAN STA. 1484 + 99
STRUCTURE NO. 043-1101**

SHEET 1 OF 8 SHEETS STA. 1484+99

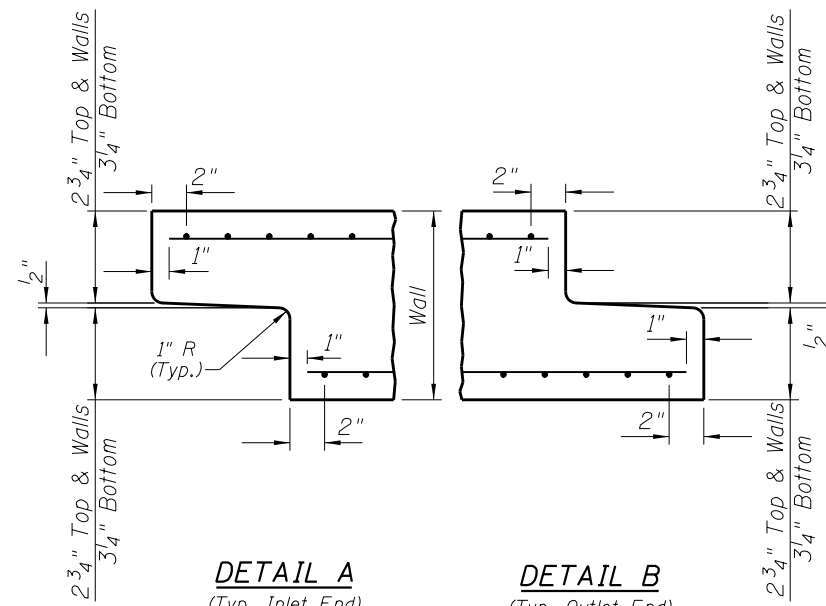
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CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

BARREL DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1484 + 99
STR. NO. 043-1101



PLAN

Location of lifting holes may be varied as needed to clear reinforcement.



DETAIL A

(Typ. Inlet End)

DETAIL B

(Typ. Outlet End)

Note: Inlet and outlet ends shall be compatible

GENERAL NOTES

Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of ASTM C1577.

The minimum concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

FILL = 3.2' Min. To 4.3' Max.

REQUIRED AASHTO STEEL AREAS (in²/ft.)

- As1 0.14
- As2 0.17
- As3 0.16
- As4 0.14

See ASTM C1577 for Longitudinal Steel

REINFORCEMENT PROVIDED

(To be filled out during construction)

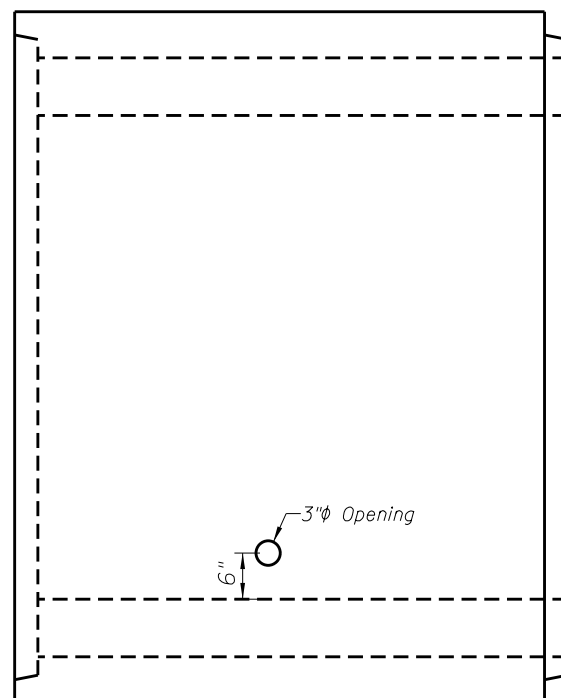
AREA

(in²/ft.)

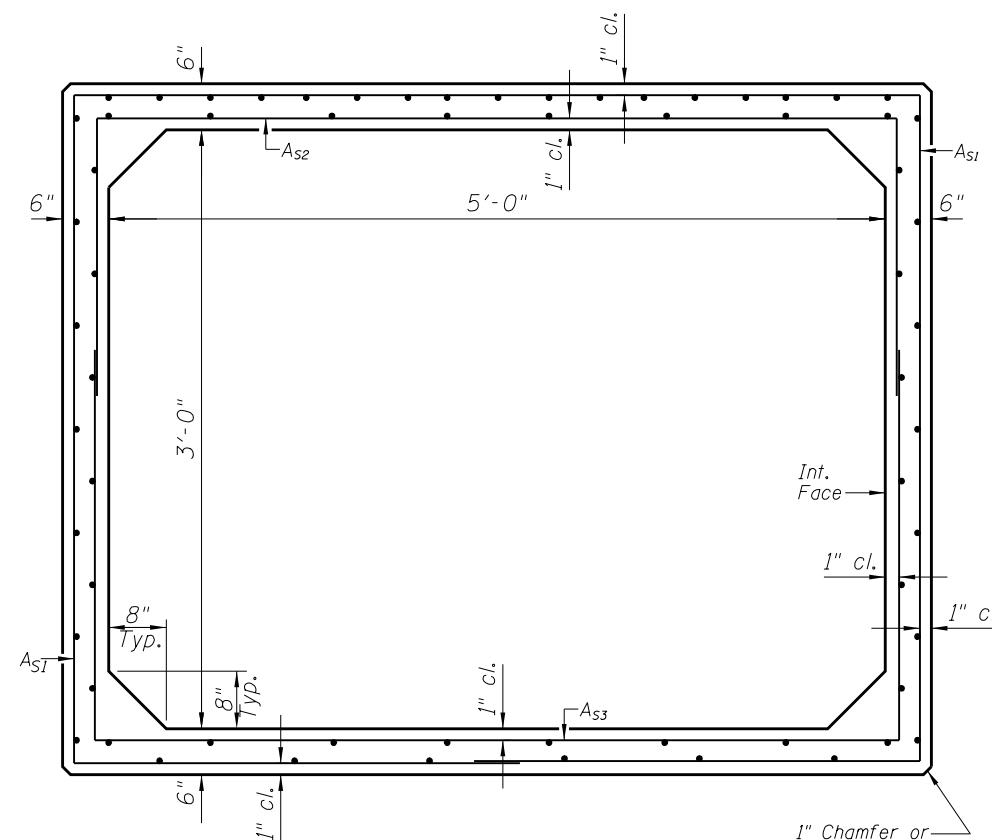
- As1 --- x --- W --- x W --- = ---
- As2 --- x --- W --- x W --- = ---
- As3 --- x --- W --- x W --- = ---
- As4 provided by As3 and As3

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 5' x 3'	Ft.	60



ELEVATION



CROSS SECTION

DESIGN LOADING

HL-93



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 WES JOB # = 2120015
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 CHECKED - DB
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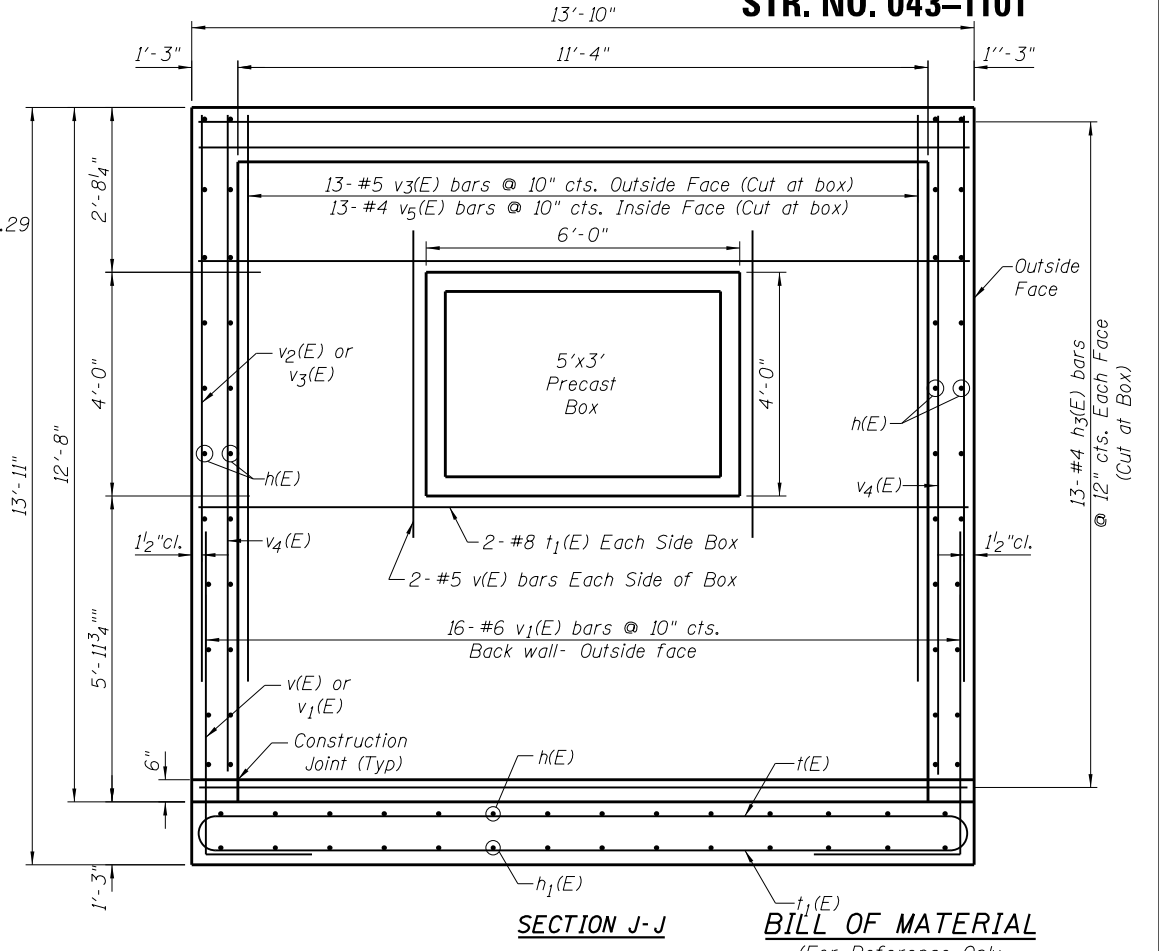
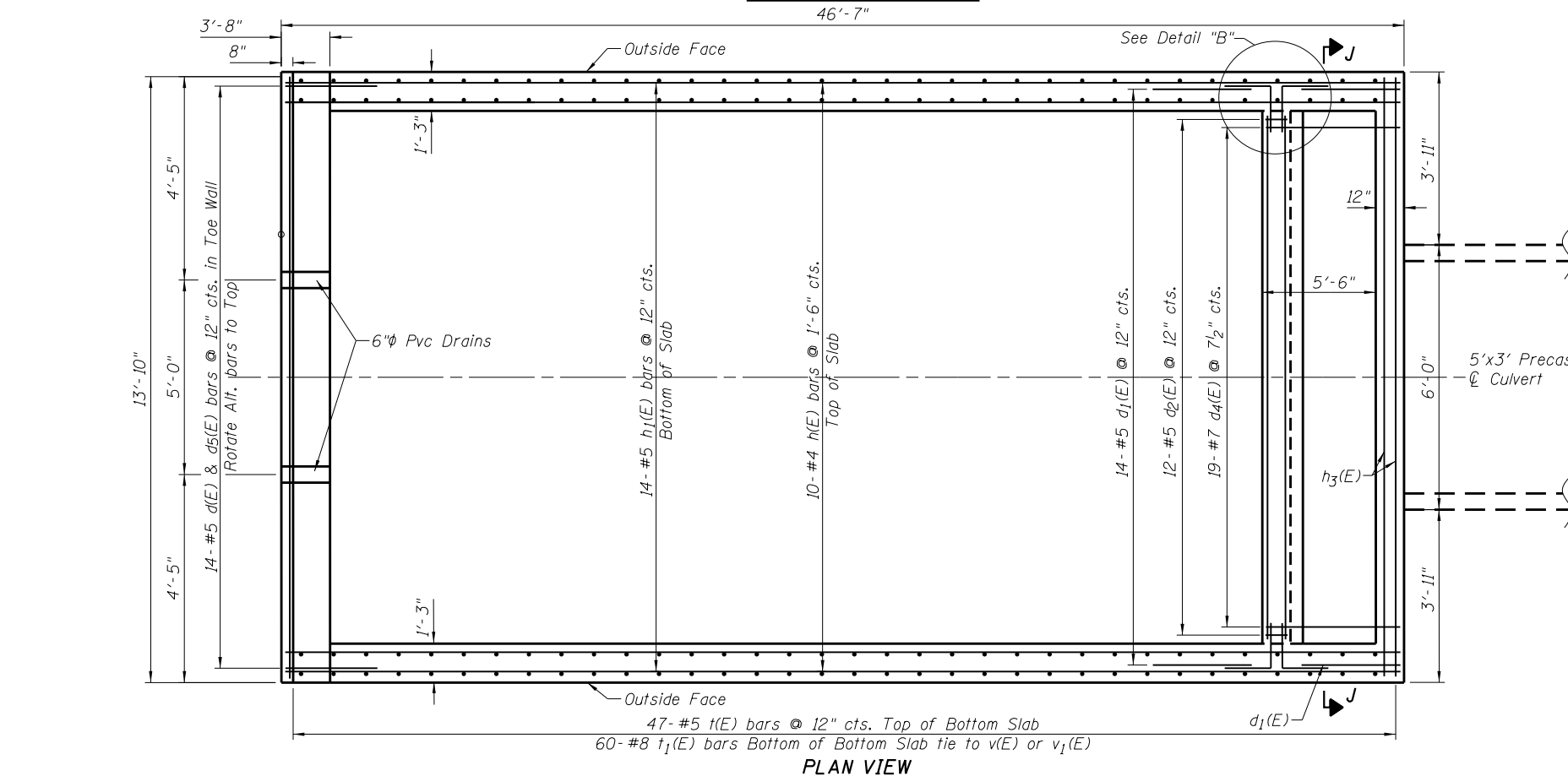
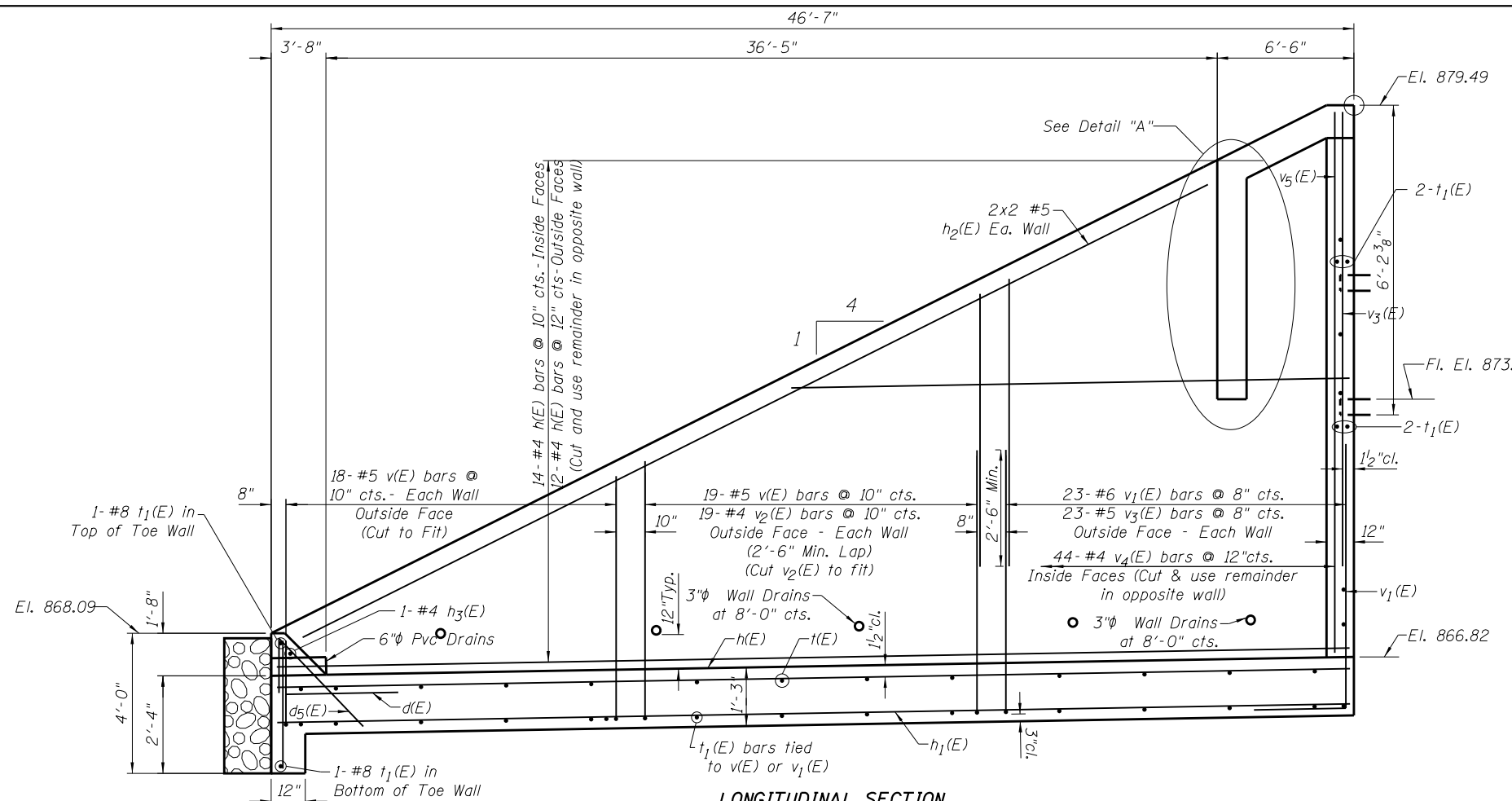
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 84 STA. 1484 + 99 BARREL DETAILS
STRUCTURE NO. 043-1101

SHEET 2 OF 8 SHEETS STA. 1484+99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	31
			CONTRACT NO. 64F75	
ILLINOIS FED. AID PROJECT				

END SECTION DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1484 + 99
STR. NO. 043-1101



MIN LAP

- #4 2'-0"
- #5 2'-6"
- #6 3'-0"
- #8 5'-2"

SECTION J-J

BILL OF MATERIAL

(For Reference Only
 Costs Included in Box Culvert
 End Section, Culvert No. 1)

Bar	No.	Size	Length	Shape
d(E)	14	#5	4'-6"	L
d1(E)	14	#5	7'-0"	L
d2(E)	12	#5	6'-7"	L
d3(E)	36	#5	6'-0"	L
d4(E)	19	#7	7'-11"	L
d5(E)	14	#5	5'-0"	L
h(E)	36	#4	46'-4"	—
h1(E)	14	#5	45'-10"	—
h2(E)	8	#5	25'-0"	—
h3(E)	27	#4	13'-7"	—
h4(E)	16	#5	11'-1"	—
h5(E)	4	#6	7'-6"	—
t(E)	47	#5	13'-7"	—
t1(E)	66	#8	15'-4"	U
v(E)	78	#5	8'-10"	L
v1(E)	62	#6	10'-10"	L
v2(E)	38	#4	6'-6"	—
v3(E)	59	#5	8'-3"	—
v4(E)	44	#4	12'-0"	—
v5(E)	13	#4	12'-0"	—
Concrete Structures		Cu. Yd.	71.5	
Reinforcement Bars		Pound	9,550	
Epoxy Coated				



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 PLOT DATE = Tue Jan 22 11:01:38 2013

DESIGNED - SB
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 CHECKED - DB
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

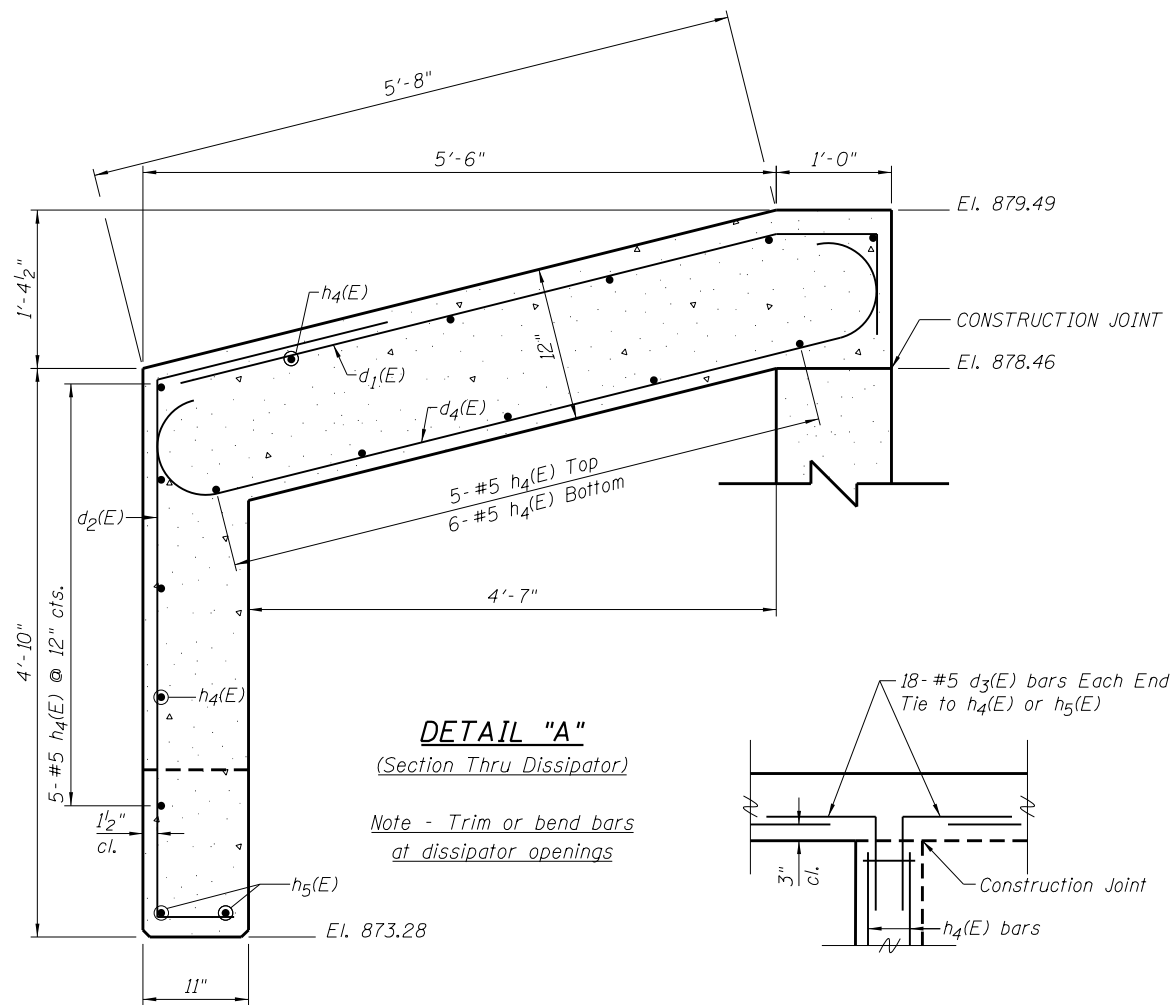
STA. 1484 + 99 LT. DOWNSTREAM END SECTION DETAILS
STRUCTURE NO. 043-1101

SHEET 3 OF 8 SHEETS STA. 1484+99

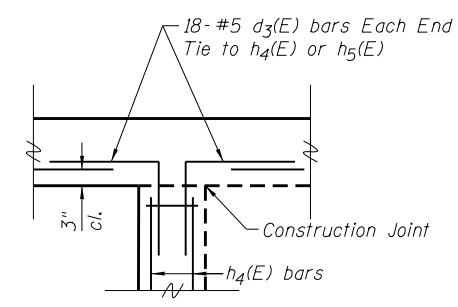
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570	101T	JO DAVIESS	64	32
CONTRACT NO. 64F75				

ILLINOIS FED. AID PROJECT

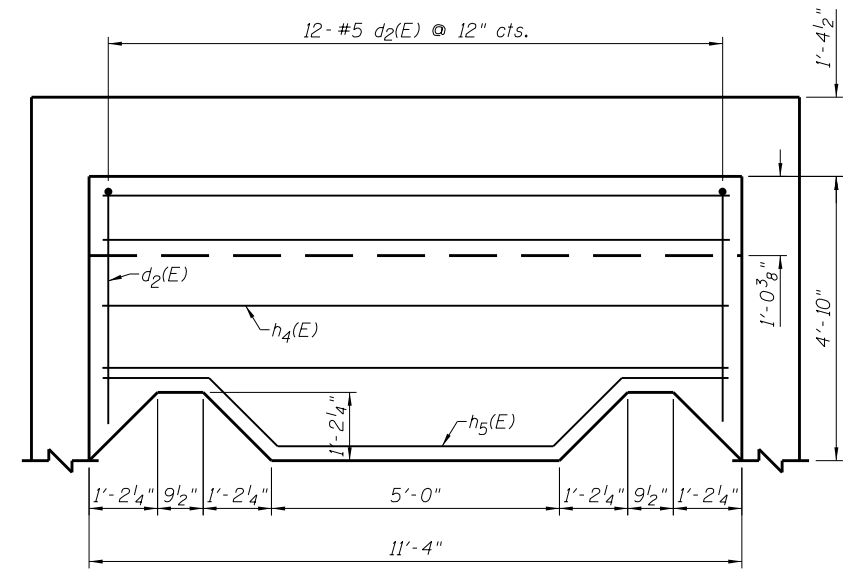
**END SECTION DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1484 + 99
STR. NO. 043-1101**



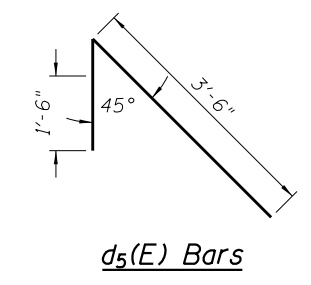
DETAIL "A"
(Section Thru Dissipator)
Note - Trim or bend bars at dissipator openings



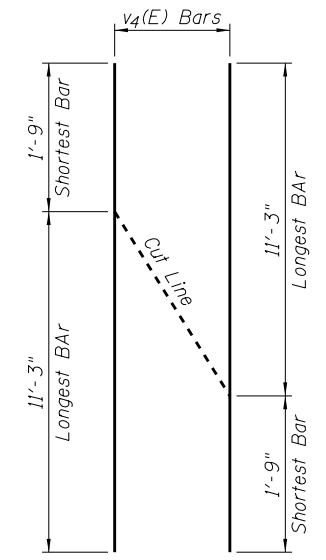
DETAIL "B"
(Plan View at Ends)



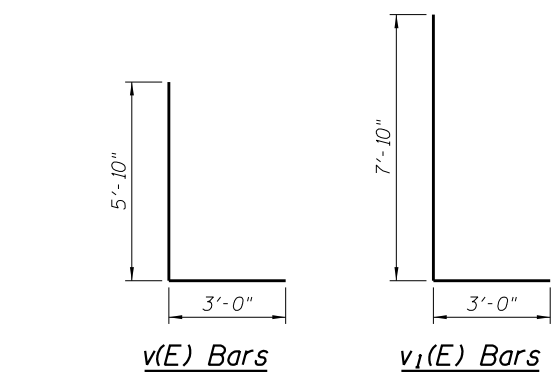
ELEVATION VIEW OF DISSIPATOR
Note - Trim or bend bars at dissipator openings



d5(E) Bars

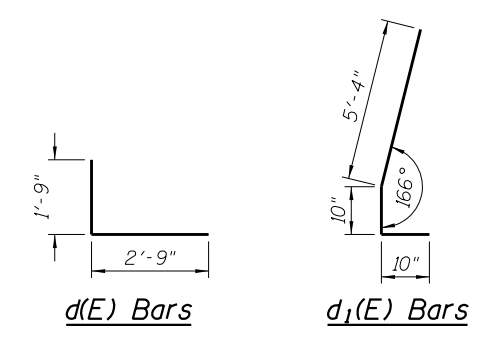


**Bar v4(E)
Cut Diagram**



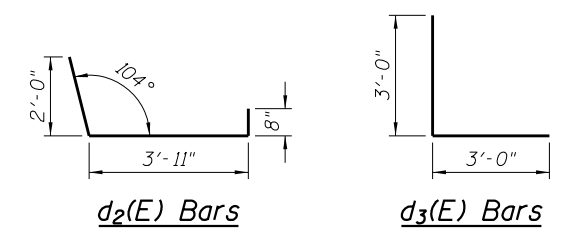
v(E) Bars

v1(E) Bars



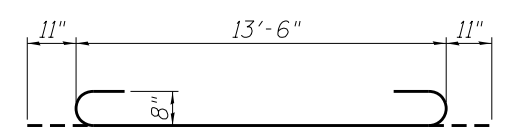
d(E) Bars

d1(E) Bars

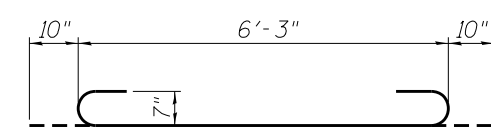


d2(E) Bars

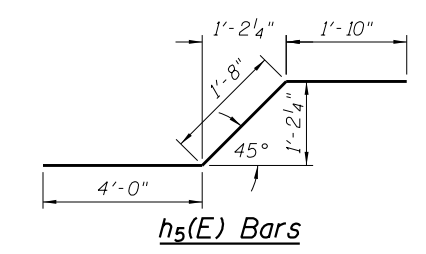
d3(E) Bars



BAR t1(E)



BAR d4(E)



h5(E) Bars

GENERAL NOTES

This work shall be done in accordance to the applicable portions of sections 503, 508, and 540 of the Standard Specifications.

Exposed edges shall be beveled 3/4".

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified).

Steel plates shall conform to AASHTO M-270 Grade 36 and shall be galvanized conforming to AASHTO M-111.

Bolts, Nuts, and Washers shall be in accordance with article 505 of the Standard Specifications and shall be galvanized.

See Plan and Profile Sheet for more information.

See Cross Section Sheet for more information.

Backfill and Compaction shall be in accordance with Section 207 for Porous Granular Embankment. Excavation for the culvert and end sections shall be considered included in the unit price bid for Precast Concrete Box Culverts.

A deposit of gravel or broken stone shall be placed behind drain holes, in accordance with article 503.12 of the standard specifications. A double layer of geotechnical filter fabric shall be placed against the drain hole and around the deposit to prevent leakage of backfill material through the 3" diameter opening. Filter fabric shall be in accordance with section 282 of the standard specifications, with the exception that under method of measurement and basis of payment this item will be considered incidental to the concrete box culvert.

A mechanical tamper shall be used for backfill on the sides of the culvert and end sections.



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PLOT DATE = Tue Jan 22 11:01:51 2013	DATE - 1/08/2013	REVISED - -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STA. 1484 + 99 LT. DOWNSTREAM END SECTION DETAILS
STRUCTURE NO. 043-1101**

SHEET 4 OF 8 SHEETS STA. 1484+99

F.A.P. RTE. 570	SECTION 101T	COUNTY JO DAVIESS	TOTAL SHEETS 64	SHEET NO. 33
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

**END SECTION
TRAVERSIBLE PIPE GRATE DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
LT. STA. 1484 + 99
DOWNSTREAM END
STR. NO. 043-1101**

GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor except as shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

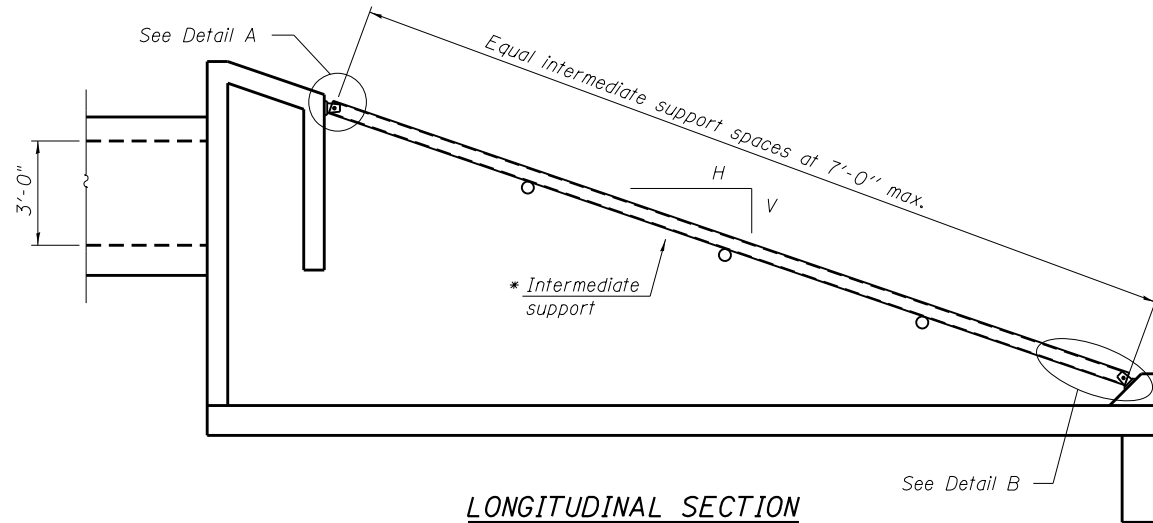
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

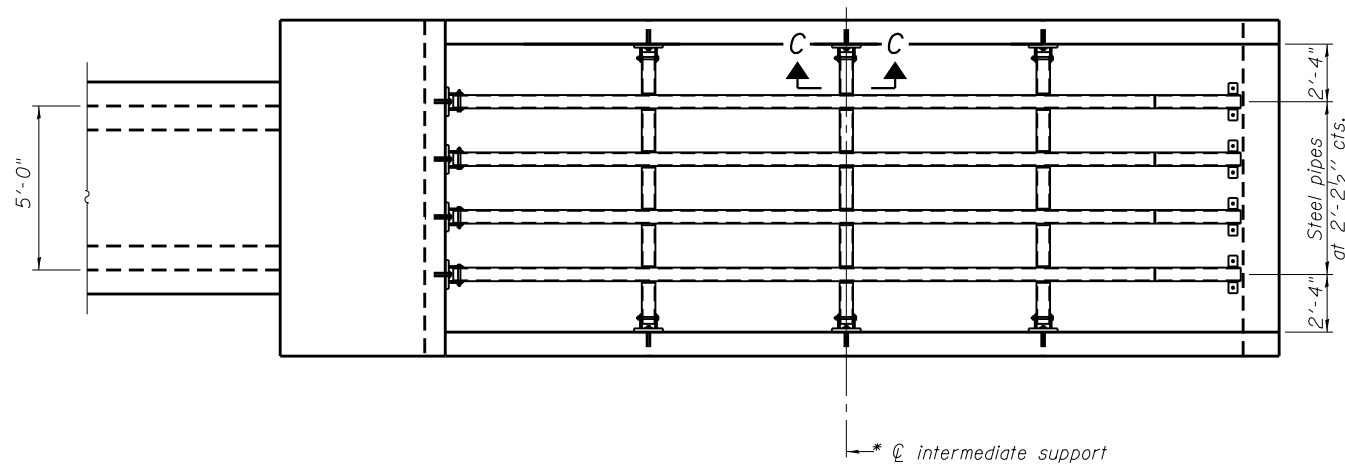
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

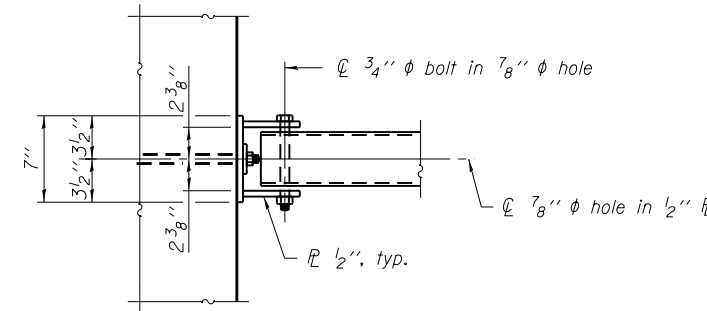
All cost associated with fabricating, furnishing, and installing the Traversable Pipe Grate System shall be included in the contract unit price for Traversable Pipe Grate.



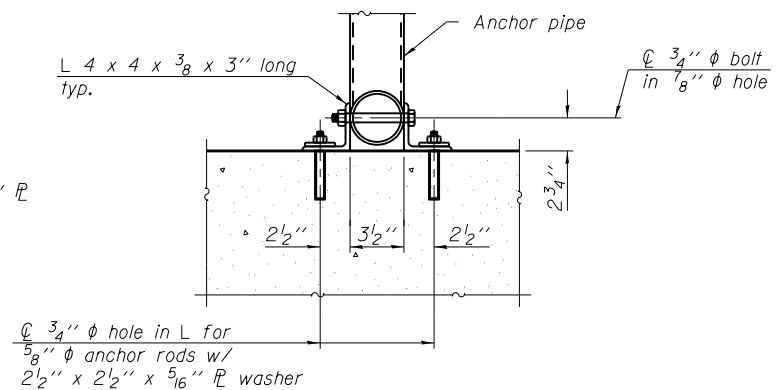
LONGITUDINAL SECTION



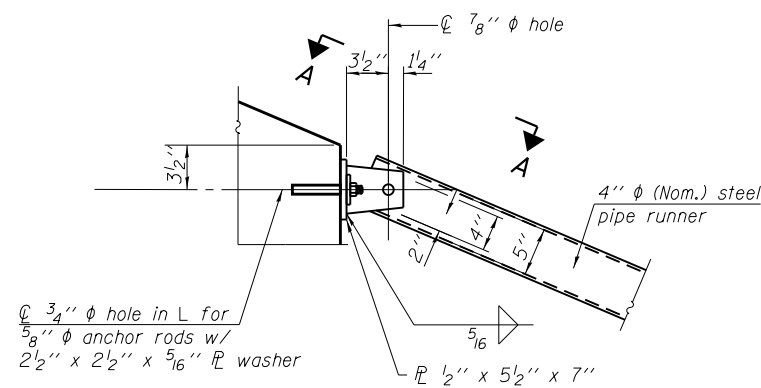
PLAN VIEW



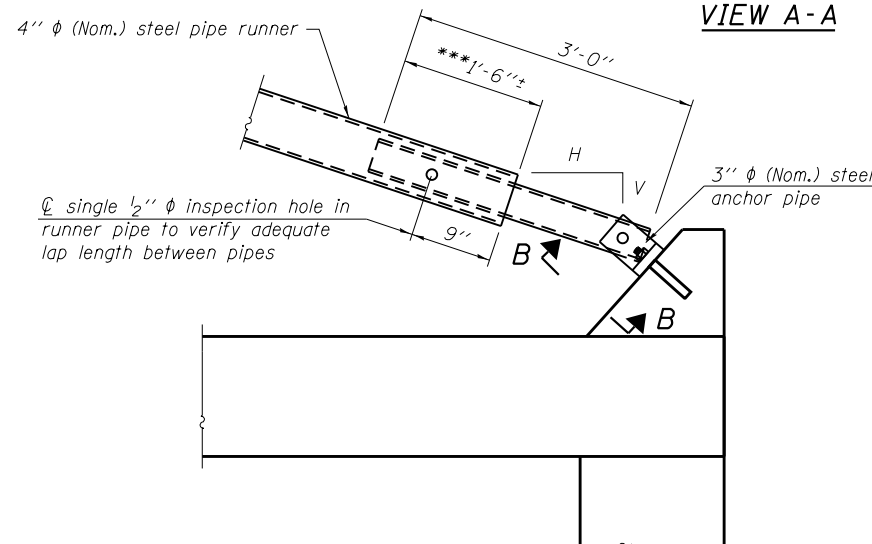
VIEW A-A



SECTION B-B

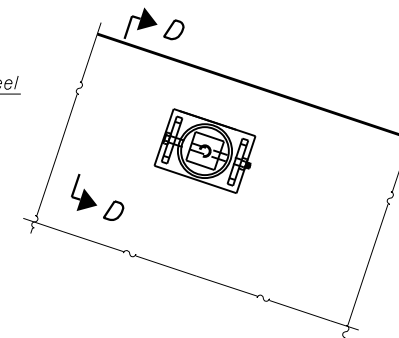


DETAIL A



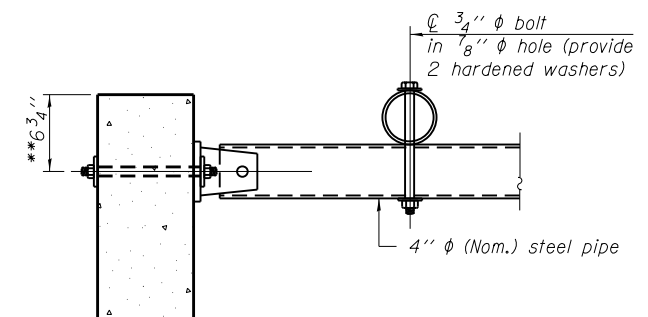
DETAIL B

*** The lap length between pipes may be adjusted in the field to accommodate construction tolerances but shall not be less than 9".



SECTION C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

Item	Unit	Quantity
Traversable Pipe Grate	Foot	162

2-16-11



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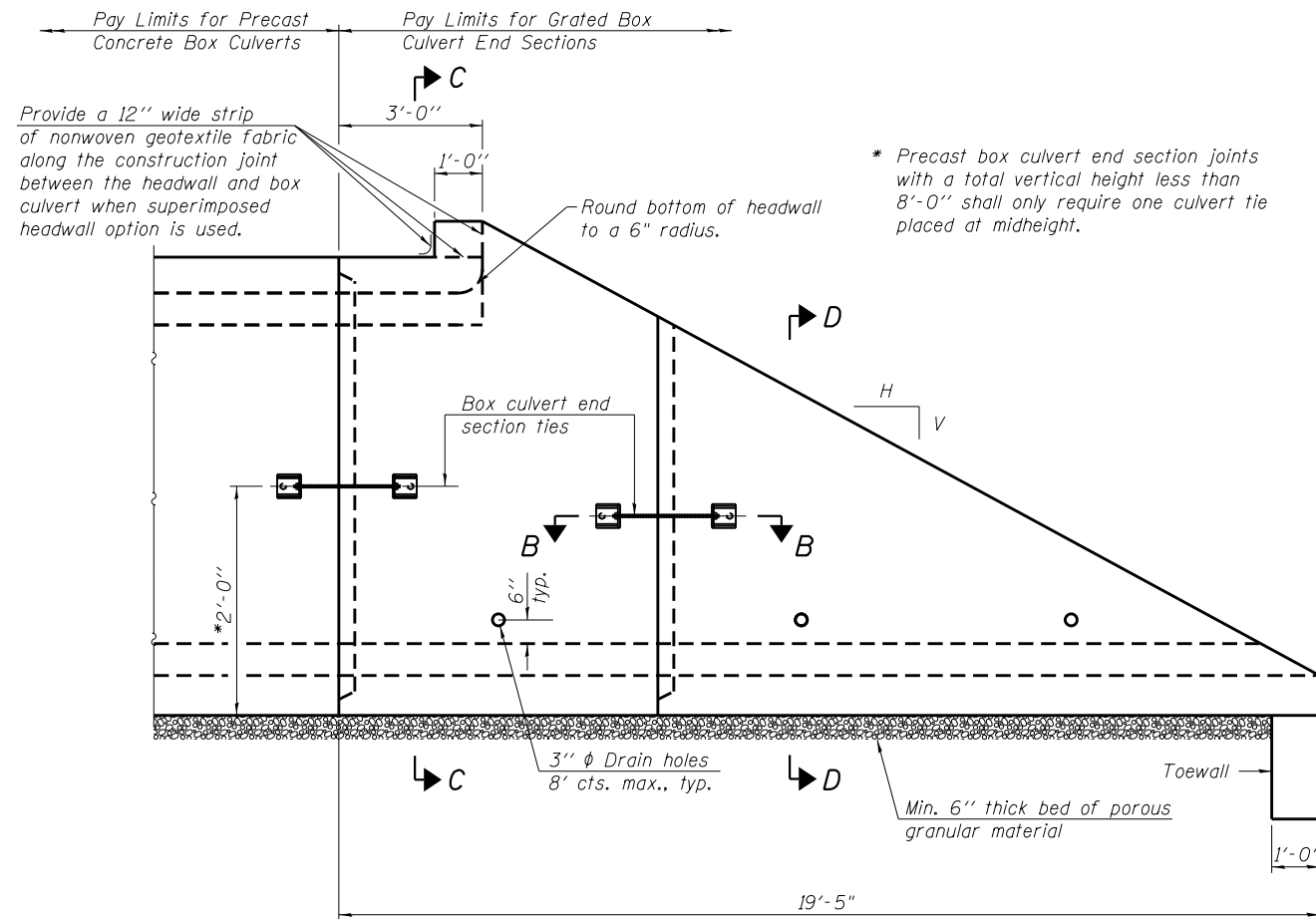
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**END SECTION TRAVERSIBLE PIPE GRATE DETAILS
LT. STA. 1484 + 99 DOWNSTREAM END - STRUCTURE NO. 043-1101**

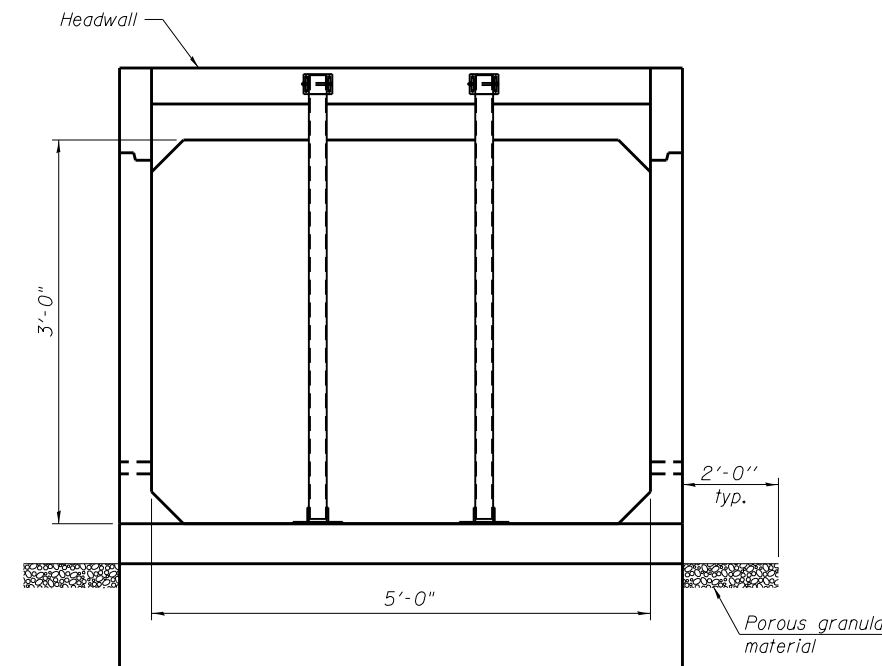
SHEET 5 OF 8 SHEETS STA. 1484+99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	34
			CONTRACT NO. 64F75	
ILLINOIS FED. AID PROJECT				

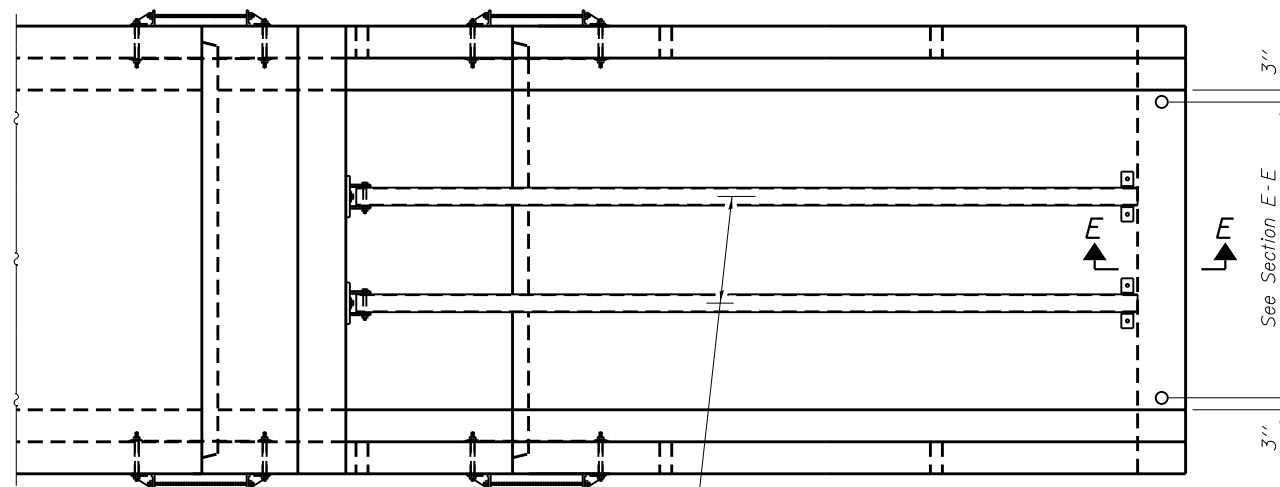
**PRECAST END SECTION DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
RT. STA. 1484 + 99
UPSTREAM END
STR. NO. 043-1101**



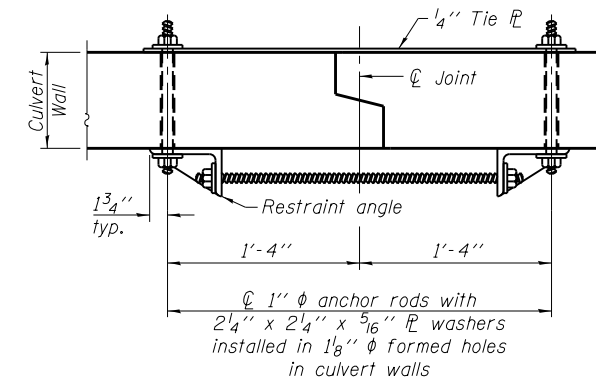
SIDE ELEVATION



END VIEW



PLAN VIEW



**SECTION B-B
(Showing culvert tie details)**

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Precast Box Culvert End Sections 5'x3'.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of AASHTO C1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The section joint shown in Side Elevation is for example only. Length of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

The headwall may be cast monolithically with the box section or a superimposed headwall may be cast directly onto the box sections. Anchor rods shall conform to the requirements of Article 1006.09 of the Standard Specifications and the anchor rods and associated hardware for securing the superimposed headwall to the box section shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. Class SI concrete may be used for construction of superimposed headwall.

In lieu of using ferrule loop inserts, the Contractor may attach the superimposed headwall to the box section by epoxy grouting reinforcement bars according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving the minimum proof load stated with drilled hole depths that do not exceed 2/3 of the thickness of the slab of the box section.

All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, headwall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections, Culvert No. 2.

Reinforcement bars designated (E) shall be epoxy coated.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

2-16-11



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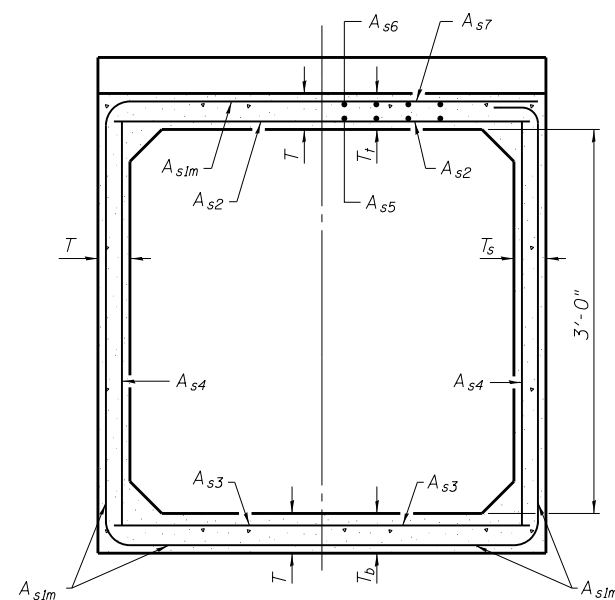
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST END SECTION DETAILS RT. STA. 1484 + 99 UPSTREAM END
STRUCTURE NO. 043-1101**

SHEET 6 OF 8 SHEETS STA. 1484+99

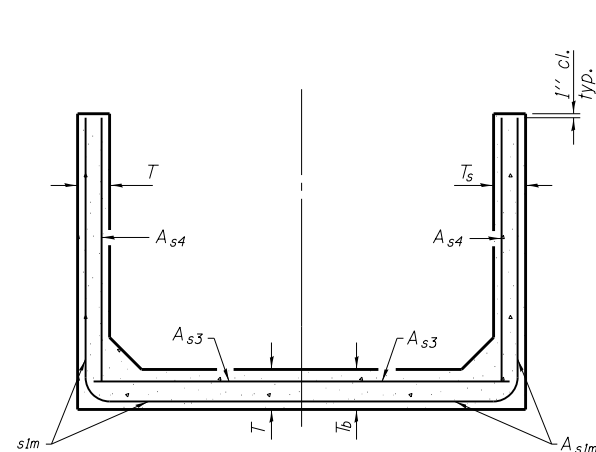
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	35
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

PRECAST END SECTION DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
RT. STA. 1484 + 99
UPSTREAM END
STR. NO. 043-1101



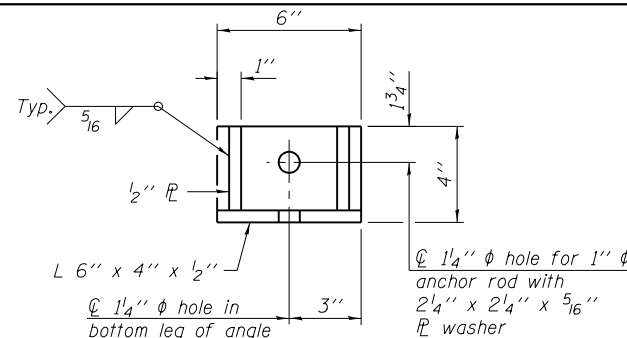
(See AASHTO C1577 for Reinforcement)

SECTION C-C

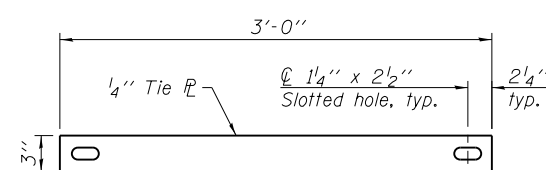


(See AASHTO C1577 for Reinforcement)

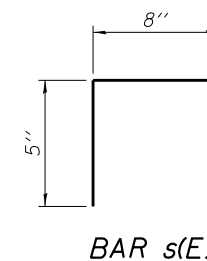
SECTION D-D



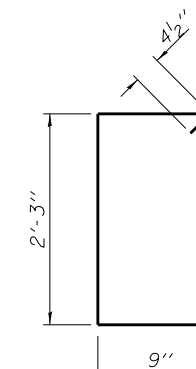
RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL



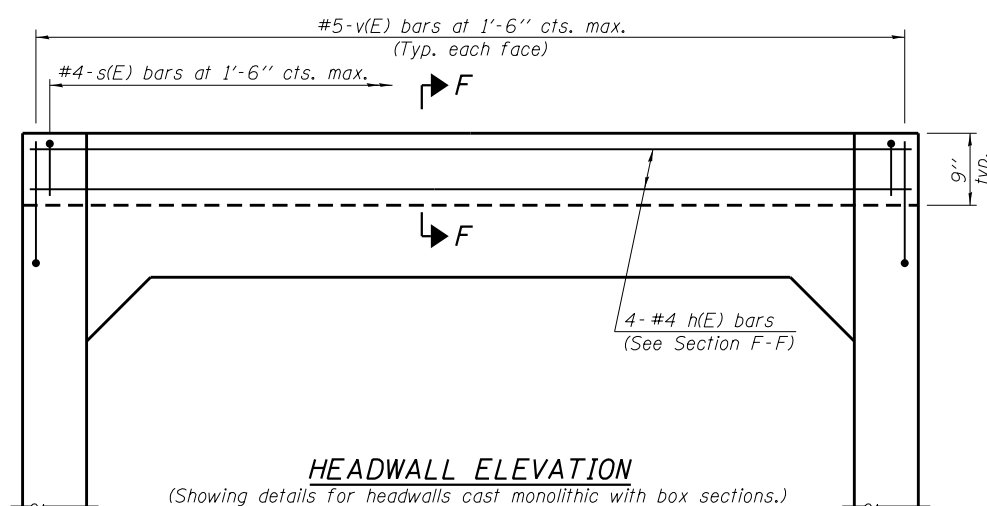
BAR s(E)



BAR s1

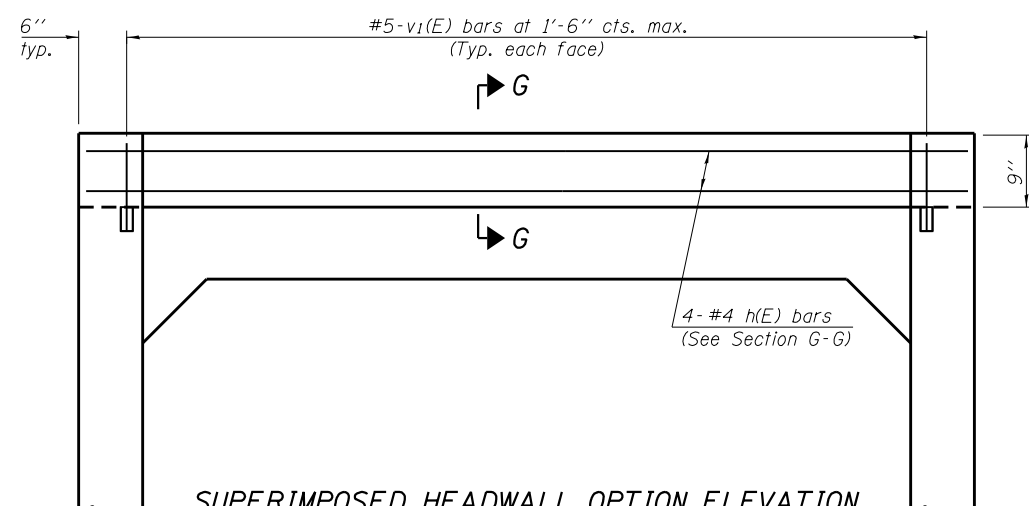
L1 DIMENSION

- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"



(Showing details for headwalls cast monolithic with box sections.)
 (Allow sidewall reinforcement to extend into end of headwall.)

HEADWALL ELEVATION



SUPERIMPOSED HEADWALL OPTION ELEVATION

12" x 12" block of CA5, CA7 or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

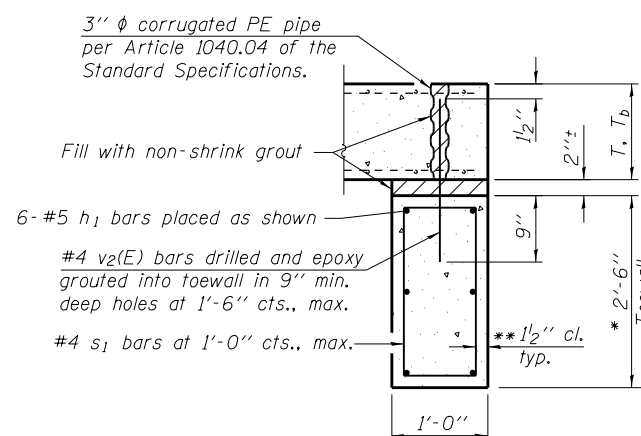
Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" φ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed after concrete has cured)

SECTION A-A

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)



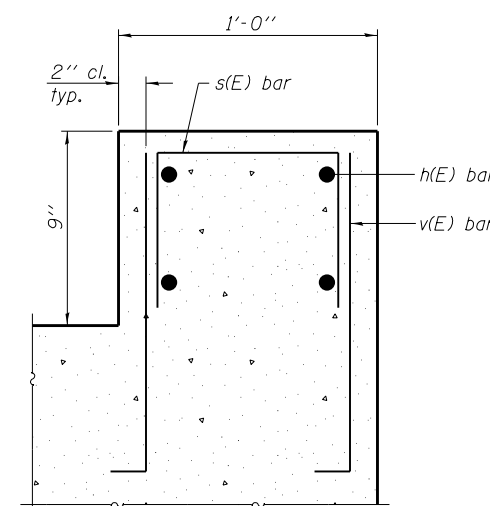
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

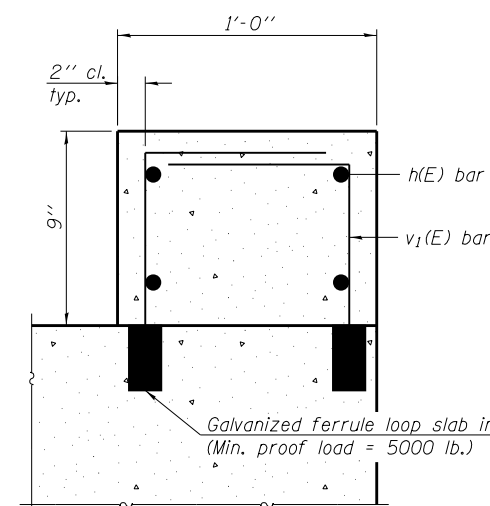
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end sections in place.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

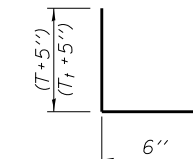
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



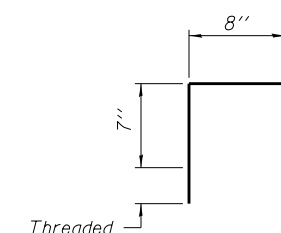
SECTION F-F



SECTION G-G



BAR v(E)



BAR v1(E)

2-16-11



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DEPARTMENT OF TRANSPORTATION

PRECAST END SECTION DETAILS RT. STA. 1484 + 99 UPSTREAM END
STRUCTURE NO. 043-1101

SHEET 7 OF 8 SHEETS STA. 1484+99

F.A.P. RTE. 570	SECTION 101T	COUNTY JO DAVIESS	TOTAL SHEETS 64	SHEET NO. 36
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

**END SECTION
TRAVERSIBLE PIPE GRATE DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
RT. STA. 1484 + 99
UPSTREAM END
STR. NO. 043-1101**

GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor except as shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Traversable Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

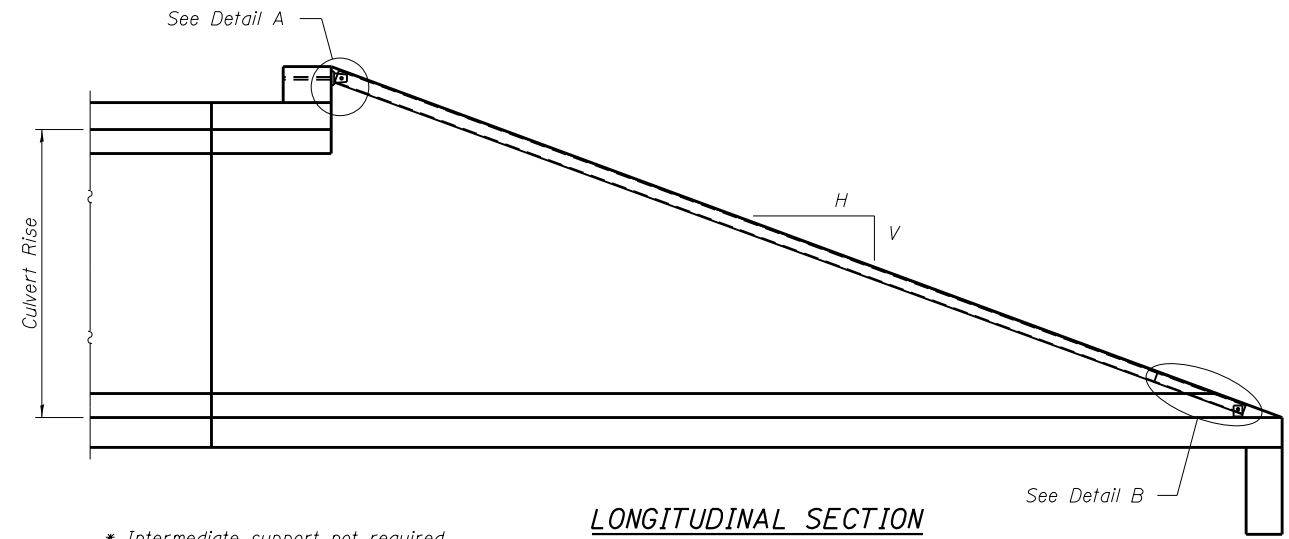
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.

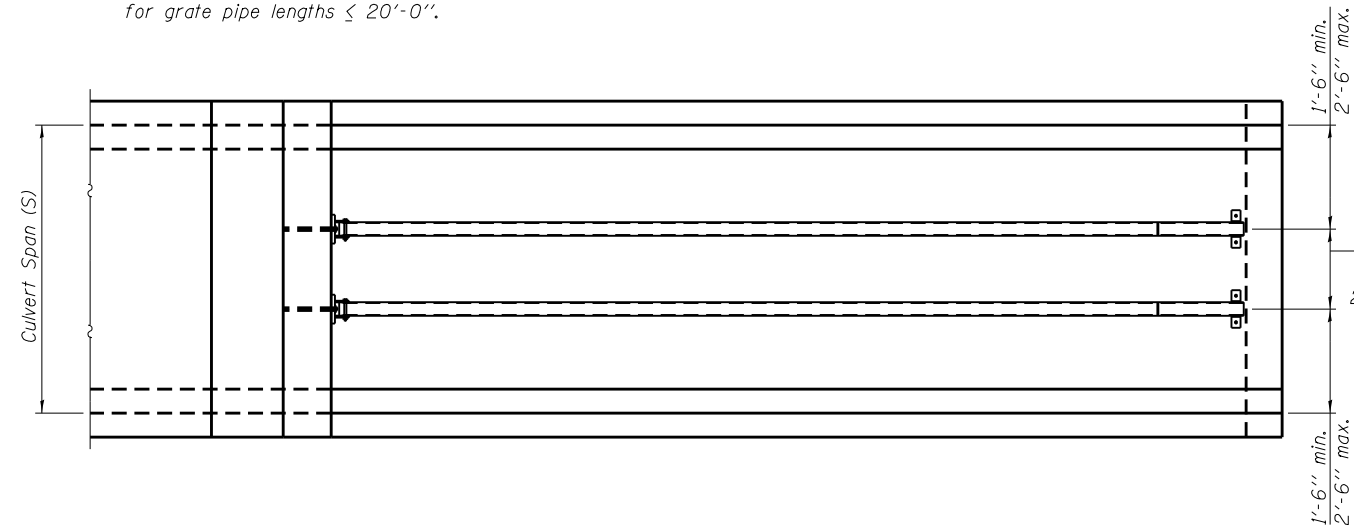
Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

All cost associated with fabricating, furnishing, and installing the Traversable Pipe Grate System shall be included in the contract unit price for Traversable Pipe Grate.

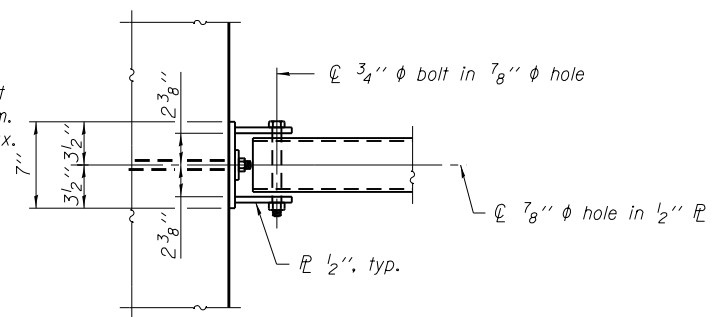


LONGITUDINAL SECTION

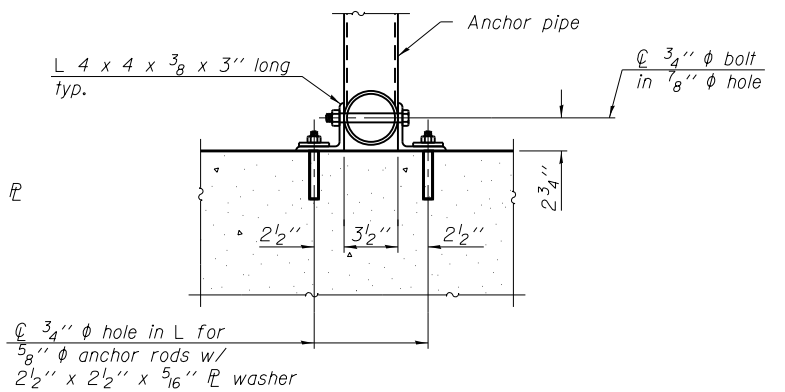
* Intermediate support not required for grate pipe lengths ≤ 20'-0".



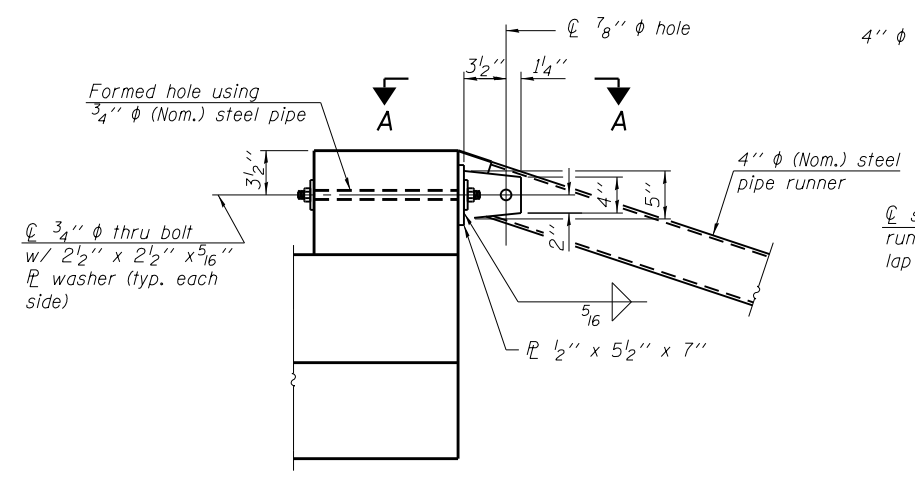
PLAN VIEW



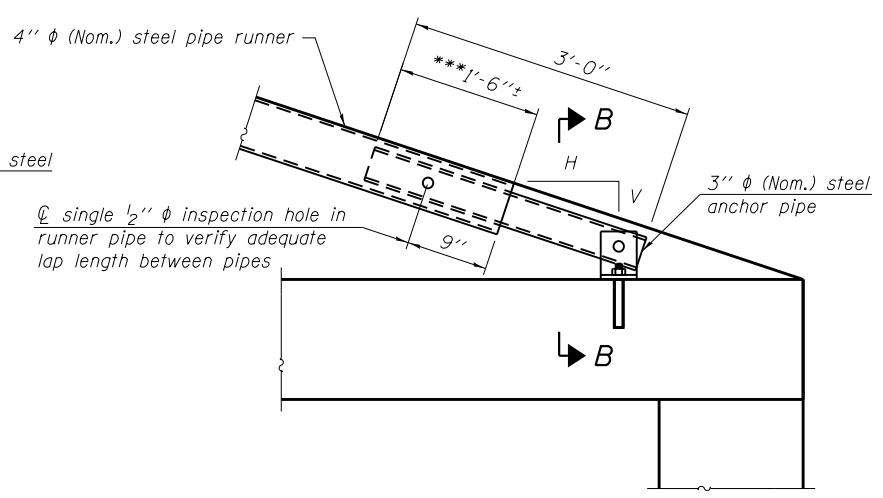
VIEW A-A



SECTION B-B



DETAIL A



DETAIL B

*** The lap length between pipes may be adjusted in the field to accommodate construction tolerances but shall not be less than 9".

Item	Unit	Quantity
Traversable Pipe Grate	Foot	34

2-16-11



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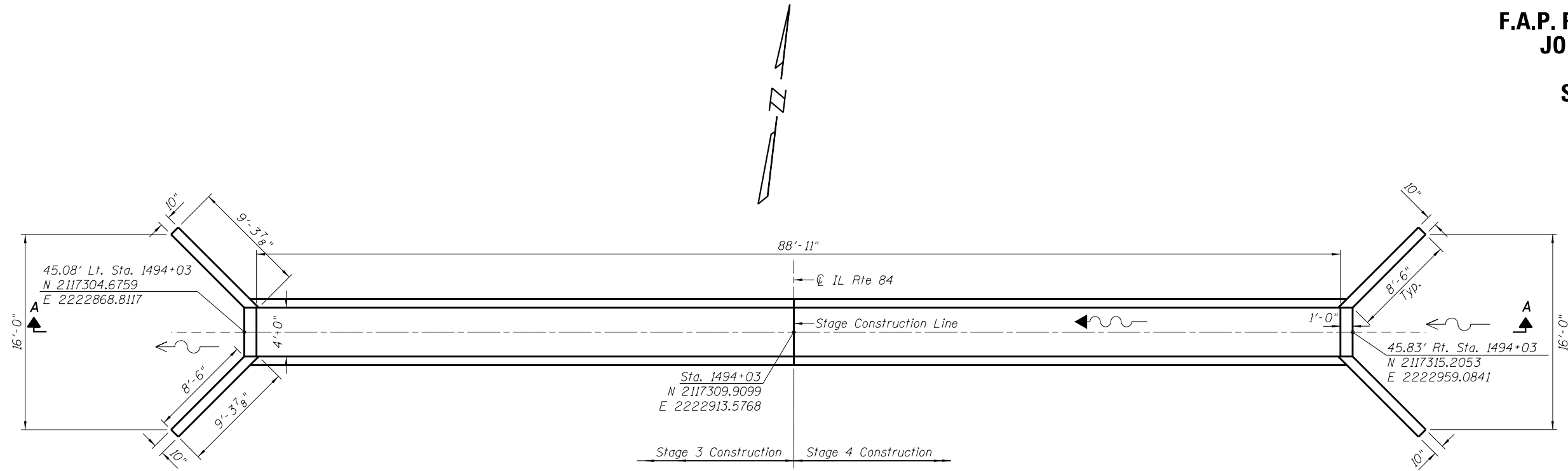
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**END SECTION TRAVERSIBLE PIPE GRATE DETAILS
RT. STA. 1484 + 99 UPSTREAM END - STRUCTURE NO. 043-1101**

SHEET 8 OF 8 SHEETS STA. 1484+99

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	37
			CONTRACT NO. 64F75	
ILLINOIS FED. AID PROJECT				

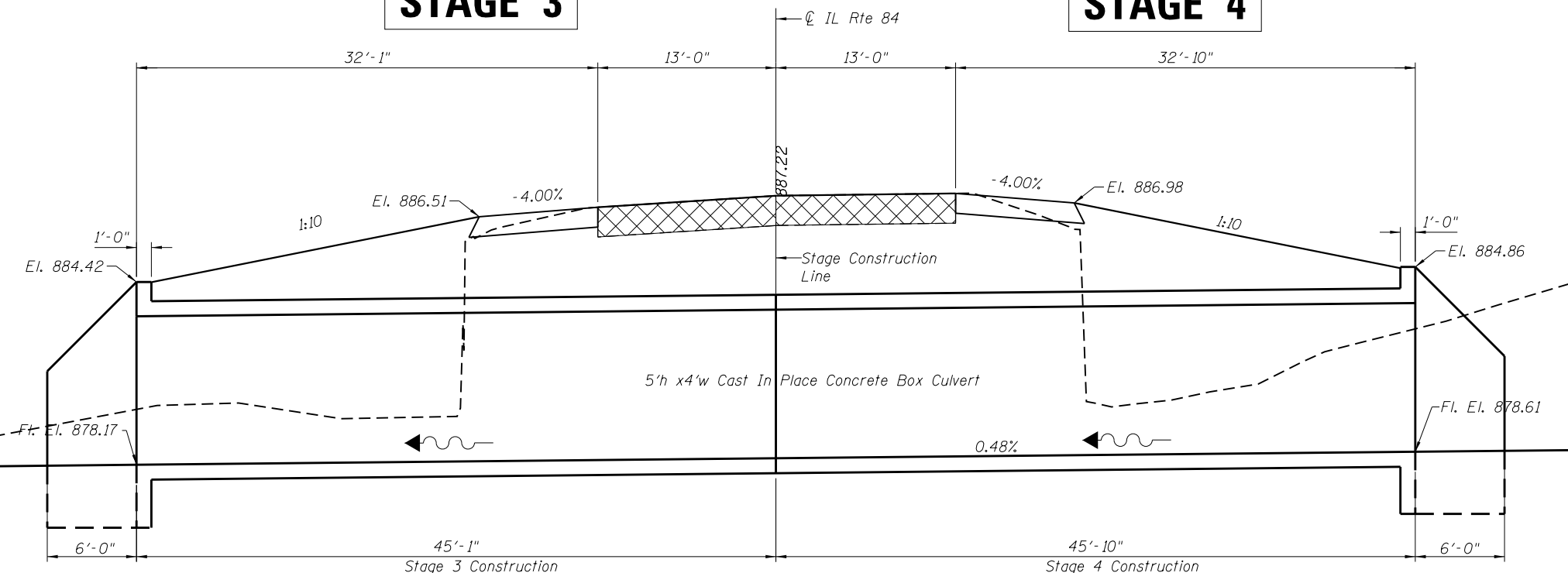
BOX CULVERT PLAN
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1494 + 03
STR. NO. 043-1100



STAGE 3

PLAN

STAGE 4



SEC A-A

TOTAL BILL OF MATERIAL - STA. 1494+03

Item	Unit	Quantity
Concrete Box Culverts	Cu.Yd.	46.1
Reinforcement Bars, Epoxy Coated	Pound	6460
Bar Splicers	Each	27

DESIGN STRESSES
 $f_y = 60,000 \text{ psi}$
 $f'_c = 4,000 \text{ psi}$

LOADING HL-93

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 DIXON, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
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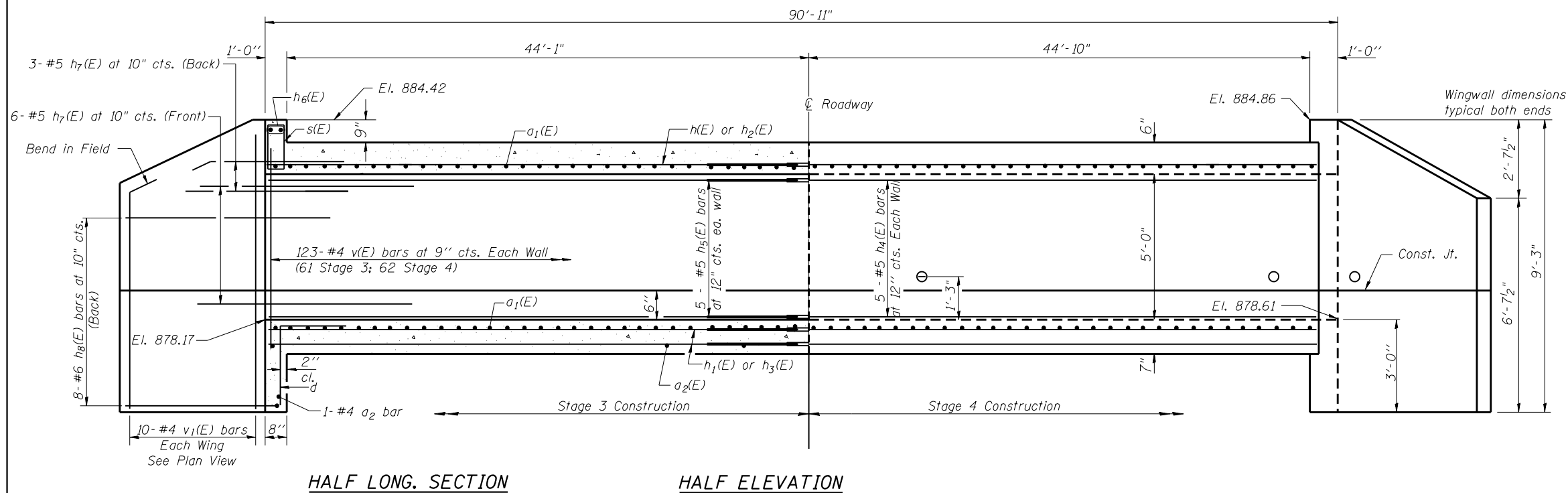
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT PLAN STA. 1494 + 03
STRUCTURE NO. 043-1100

SHEET 1 OF 3 SHEETS STA. 1494+03

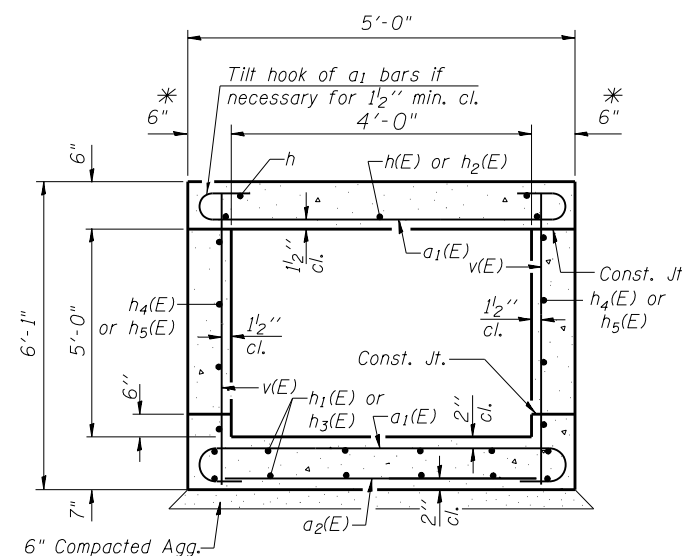
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	38
CONTRACT NO. 64F75				
ILLINOIS FED. AID PROJECT				

BOX CULVERT DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1494 + 03
STR. NO. 043-1100



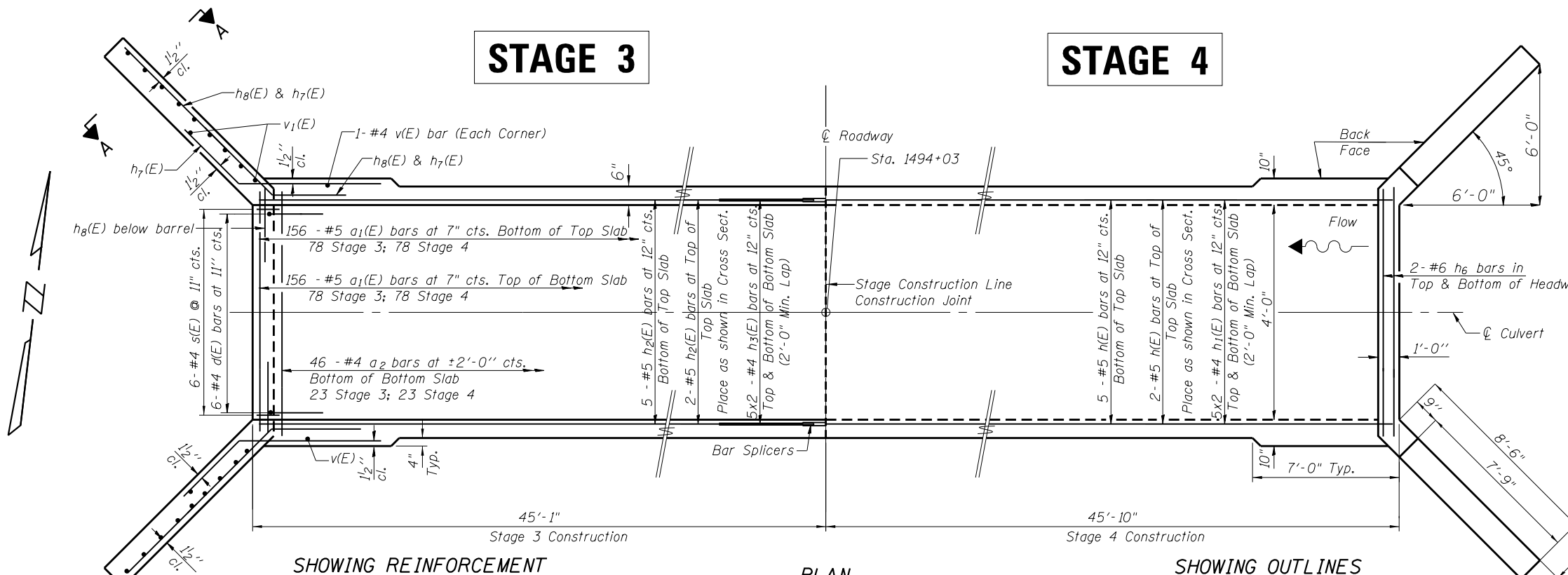
HALF LONG. SECTION

HALF ELEVATION



SECTION THRU BARREL

* WALL t INCREASES TO 10" AT ENDS



SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

NOTES

A distance of half the length of the wingwall but not less than seven feet of the barrel shall be poured monolithically with the wingwalls.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
 Bars designated (E) shall be epoxy coated.

BAR LAP

#4 2'-0"
 #5 2'-6"

TOTAL BILL OF MATERIAL - STA. 1494+03

Bar	No.	Size	Length	Shape
a1 (E)	312	#5	5'-11"	U
a2 (E)	48	#4	4'-9"	—
d (E)	12	#4	4'-6"	L
h (E)	7	#5	45'-8"	—
h1 (E)	20	#4	23'-10"	—
h2 (E)	7	#5	44'-10"	—
h3 (E)	20	#4	23'-6"	—
h4 (E)	10	#5	45'-8"	—
h5 (E)	10	#5	44'-10"	—
h6 (E)	8	#6	4'-4"	—
h7 (E)	36	#5	8'-0"	—
h8 (E)	32	#6	11'-6"	—
s (E)	12	#4	4'-3"	S
v (E)	250	#4	5'-9"	—
v1 (E)	40	#4	9'-0"	—
Concrete Box Culverts	Cu. Yd.	46.1		
Reinforcement Bars	Pound	6,490		
Epoxy Coated				
Bar Splicers	Each	27		

SSB-H-0

7-1-10



USER NAME = dossdd
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 PLOT DATE = Tue Jan 22 10:59:48 2013

DESIGNED - SB
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 CHECKED - DB
 DATE - 08/08/2012

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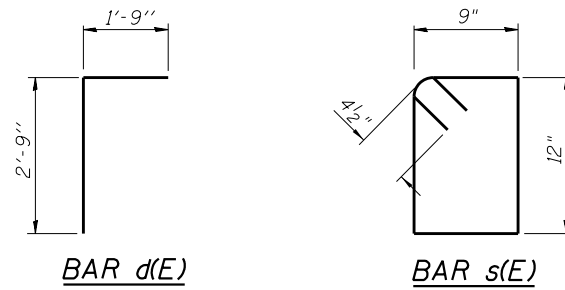
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS STA. 1494 + 03
 STRUCTURE NO. 043-1100

SHEET 2 OF 3 SHEETS STA. 1494+03

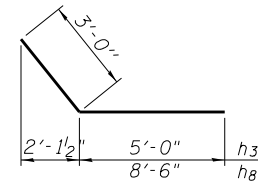
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	39
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

BOX CULVERT DETAILS
IL RTE 84
F.A.P. RTE 570 SECTION 101T
JO DAVIESS COUNTY
STA. 1494 + 03
STR. NO. 043-1100

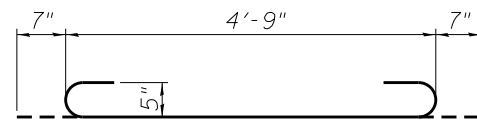


BAR d(E)

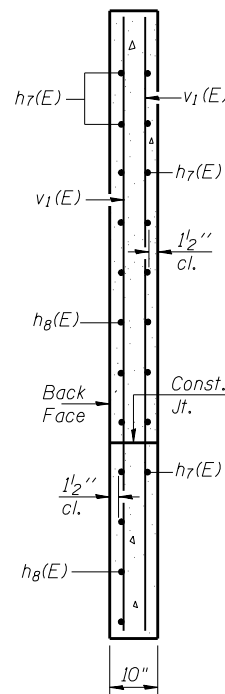
BAR s(E)



BARS h7(E) & h8(E)



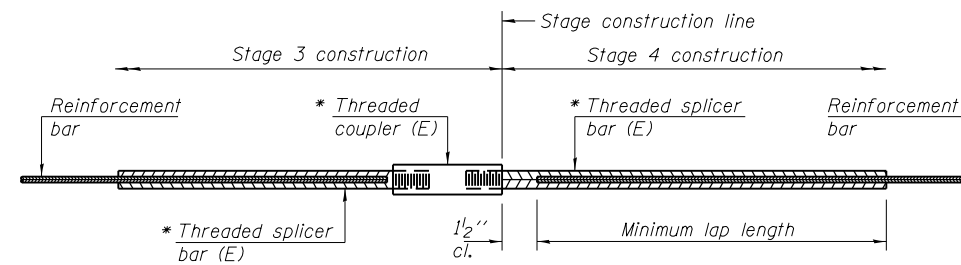
BAR a1(E)



SECTION A-A

MIN. BAR LAP

#4 2'-0"
 #5 2'-6"



STANDARD BAR SPLICER ASSEMBLY

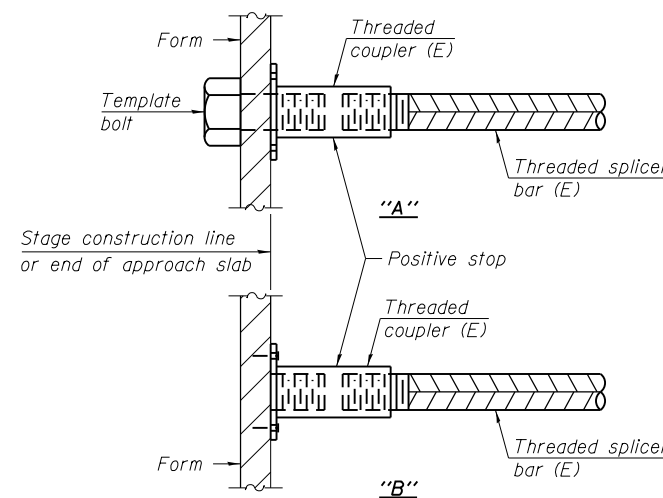
Minimum Lap Lengths - For Splicers						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

Table 1: Black bar, 0.8 Class C
 Table 2: Black bar, Top bar lap, 0.8 Class C
 Table 3: Epoxy bar, 0.8 Class C
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C
 Table 5: Epoxy bar, Class C
 Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#5	7	5
Bottom Slab	#4	10	5
Walls	#5	10	5



INSTALLATION AND SETTING METHODS

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

GENERAL NOTES

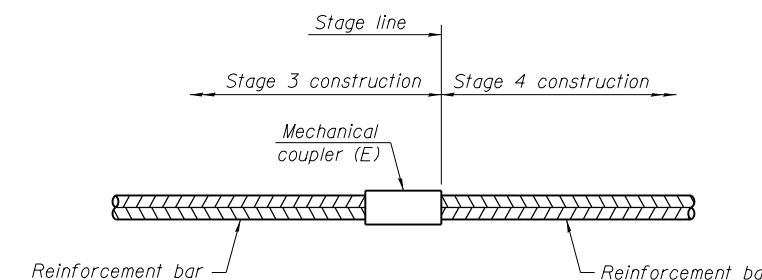
- All work and materials shall be in accordance with the Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction adopted January 1, 2012 and latest supplemental specifications and recurring special provisions, unless noted otherwise on these plans or special provisions.
- The Contractor shall verify all dimensions in the field prior to commencing work. The engineer shall be notified of any discrepancies which may exist, prior to proceeding with the work.
- Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. prior to excavation.
- The Contractor is responsible for design, installation and removal of all excavation support systems.
- The excavation and work area shall be properly drained at all times during construction. All wet, loose, frozen or other unsuitable material shall be removed prior to placement of concrete or compacted backfill. The cost of any pumping required shall be included in the cost of "Concrete Box Culverts".
- It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and cost shall be included with "Concrete Box Culverts".
- 6" Compacted Aggregate base below box culvert shall not be paid for separately but considered included in the contract price for concrete box culverts.

CAST-IN-PLACE CONCRETE NOTES

- All cast-in-place concrete work shall be in accordance with Section 540 of the Illinois Department of Transportation (IDOT) Standard Specifications for Road and Bridge Construction adopted January 1, 2012, supplemental specifications and recurring special provisions and as noted below.
- Reinforcement bars shall conform to the requirements of ASTM A 706 GR60.
- Exposed edges of cast-in-place concrete shall be beveled 3/4".
- All construction joints shall be bonded.
- Concrete mix designs shall be submitted to the Engineer for review and approval a minimum of 7 days prior to ordering or placing concrete.
- Backfill material on all sides of the box and wings shall be compacted in accordance with Section 502 using walk behind tampers.

BAR SPLICER NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.



STANDARD MECHANICAL SPLICER
 (Alternate)



USER NAME = dossdd	DESIGNED - SB	REVISED - -
WES JOB # = 2120015	DRAWN - BEH	REVISED - -
PLOT SCALE = 10.0000 / in.	CHECKED - DB	REVISED - -
PLOT DATE = Tue Jan 22 11:00:03 2013	DATE - 08/08/2012	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

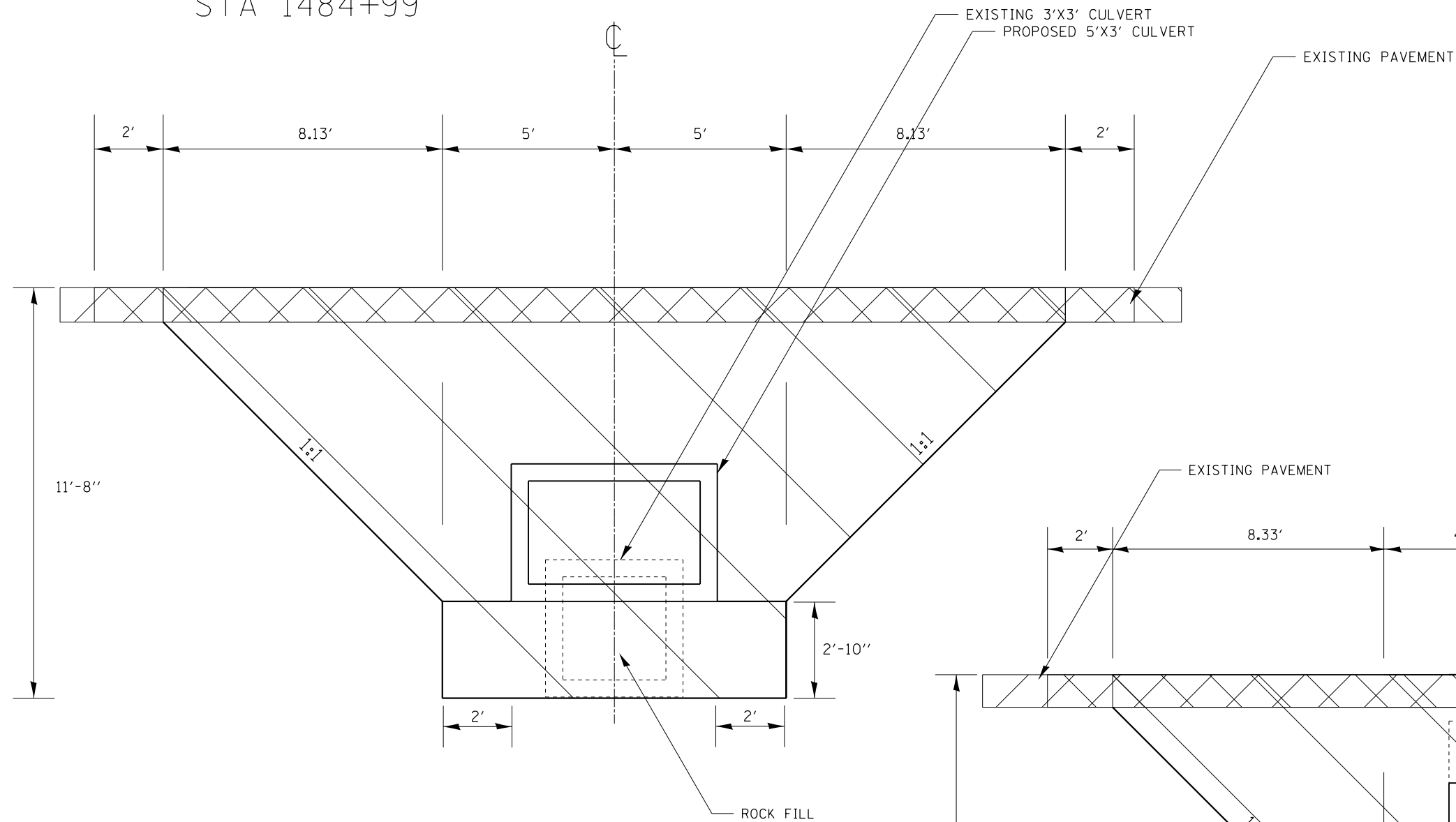
BOX CULVERT DETAILS STA. 1494 + 03
STRUCTURE NO. 043-1100

SHEET 3 OF 3 SHEETS STA. 1494+03

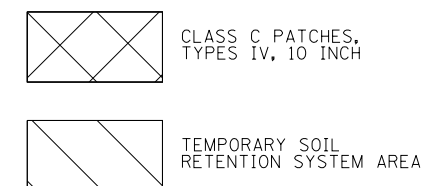
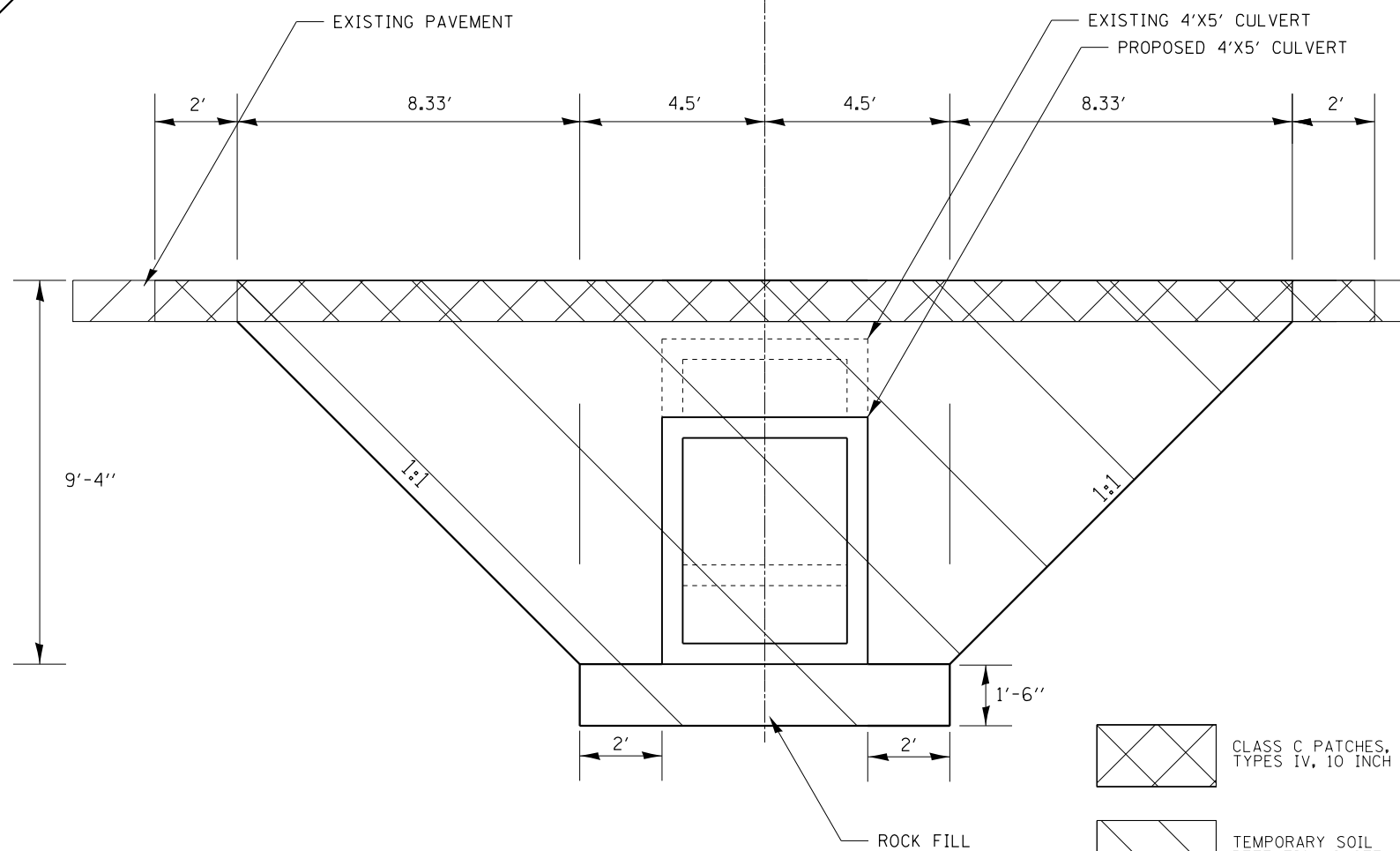
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	40
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

TEMPORARY SOIL RETENTION SYSTEM DETAILS

STA 1484+99



STA 1494+03



FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED -
et:\pwork\pwork\rundbladerr\d0233029	D201410-shr-details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Tue Jan 22 11:18:22 2013	DATE -	REVISED -

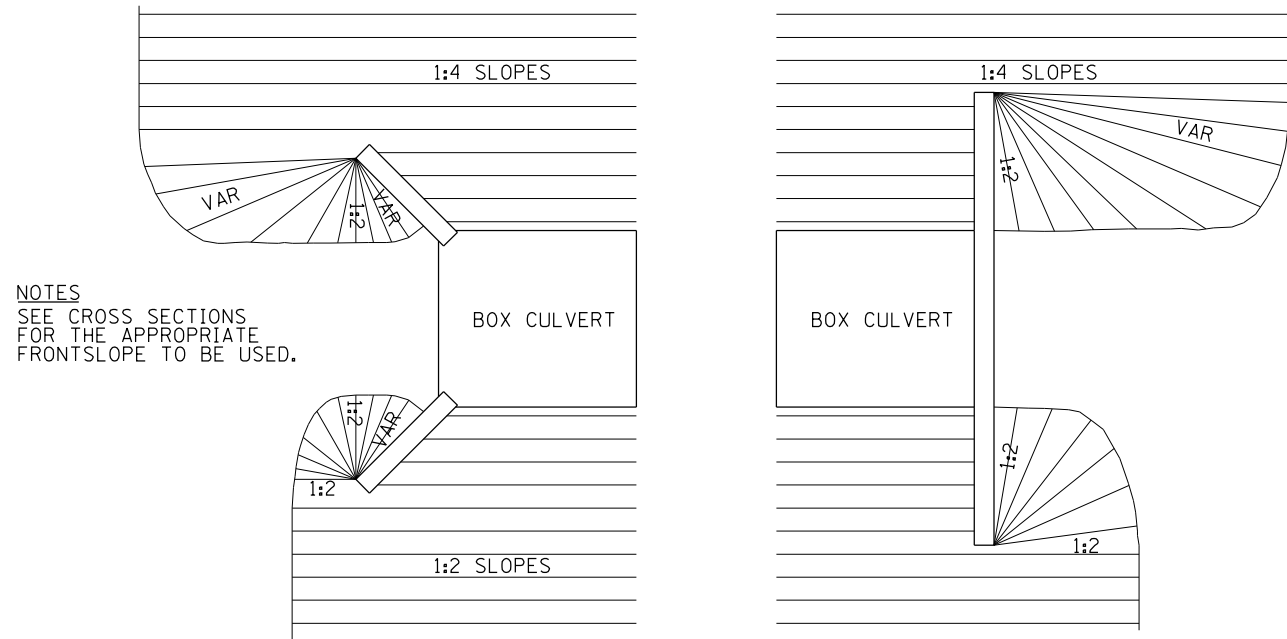
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION
SYSTEM DETAIL

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64F75	

GRADING AROUND WINGWALLS

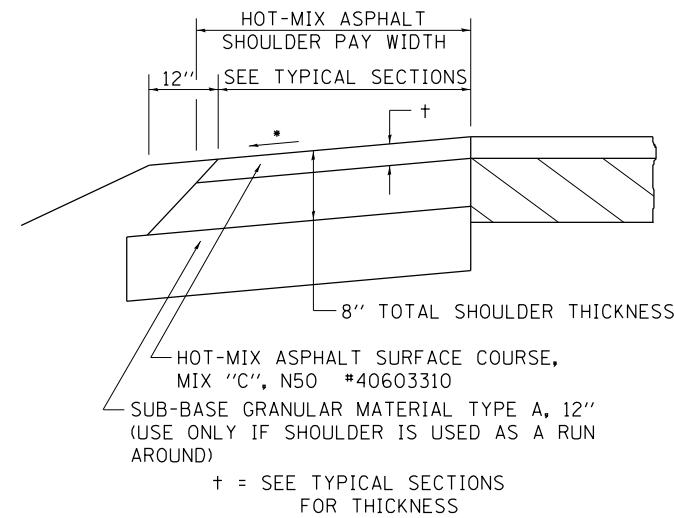


NOTES
SEE CROSS SECTIONS FOR THE APPROPRIATE FRONTSLOPE TO BE USED.

5-27-09

GRADING AROUND WINGWALLS 20.4

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.

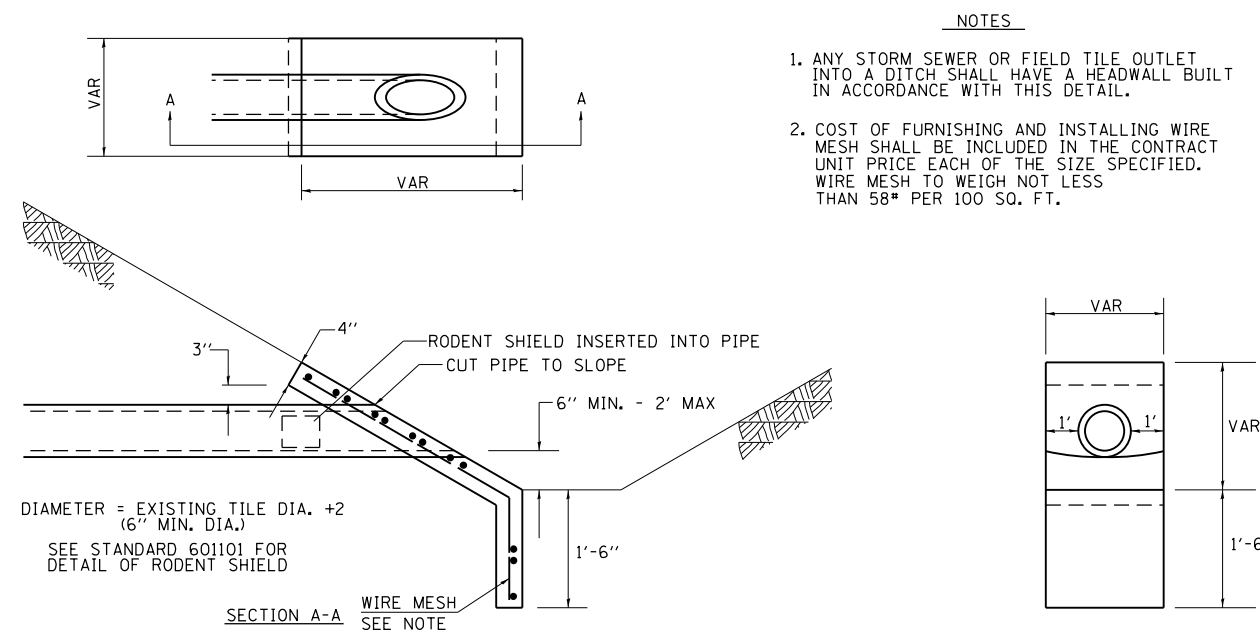
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

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

REVISED - 7-05-12

HOT-MIX ASPHALT SHOULDER 23.4a

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS



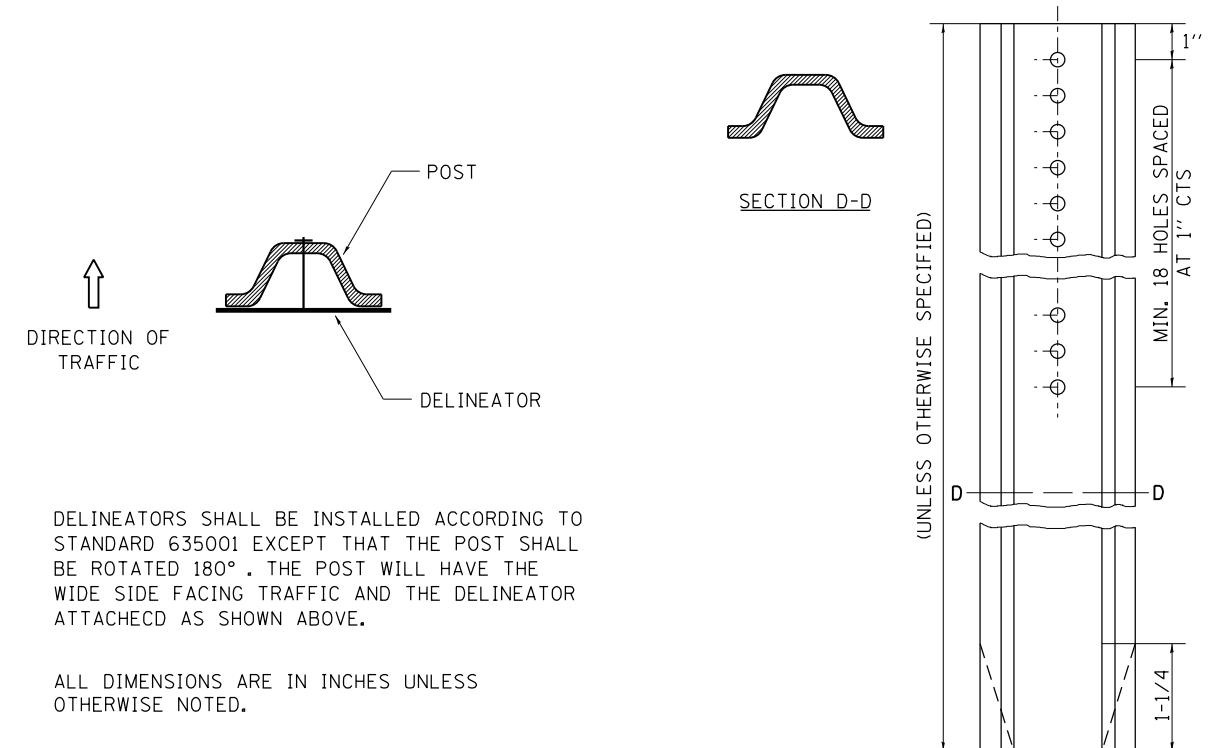
NOTES

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

REVISED - 10-09-12

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 28.4

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 ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: 100.0000 ' / 1"	SHEET NO. OF SHEETS STA. TO STA.	570	101T	JO DAVIESS	64	42
REVISED -			CONTRACT NO. 64F75				
REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DELINEATOR AND POST ORIENTATION 37.4

ROAD CLOSED TO OVERSIZED LOADS



Permit Loads - Loads Over 13 Feet; 3.0" Radius; 1.3" Border; Black on Orange; [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D; Table of letter and object lifts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.2	48.4	54.4	60.7	63.5	69.5	80.8
O	V	E	R	O	V	E	R	O	A	D
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5
X	X	M	I	L	E	S	A	H	A	D
7.6	13.8	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	78.6

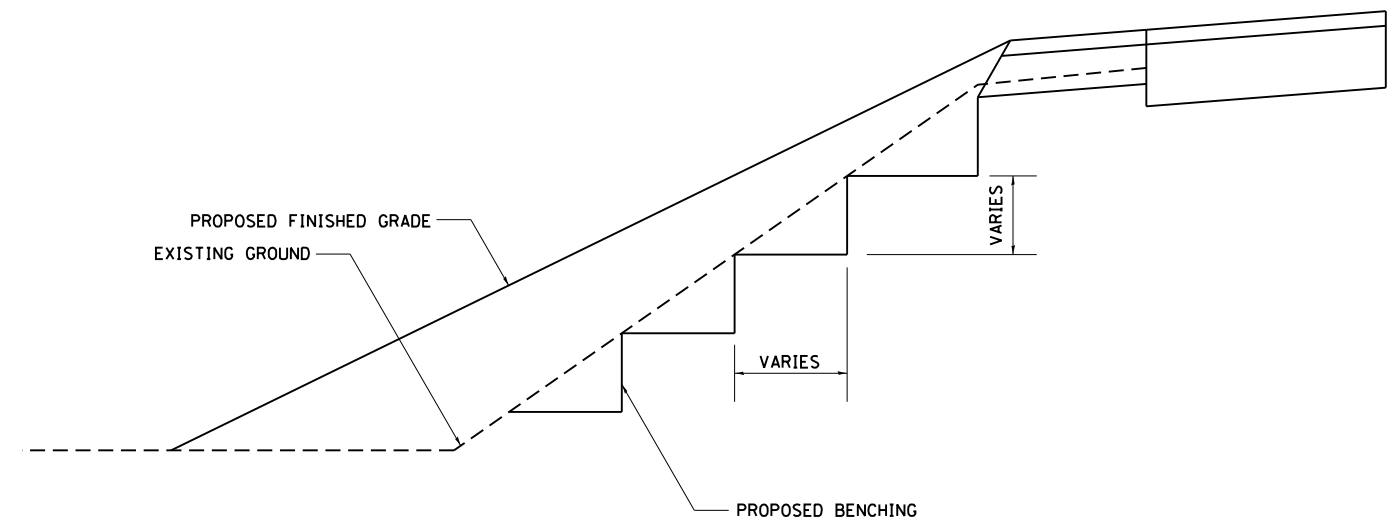
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 3-11-09

ROAD CLOSED TO OVERSIZED LOADS 40.4

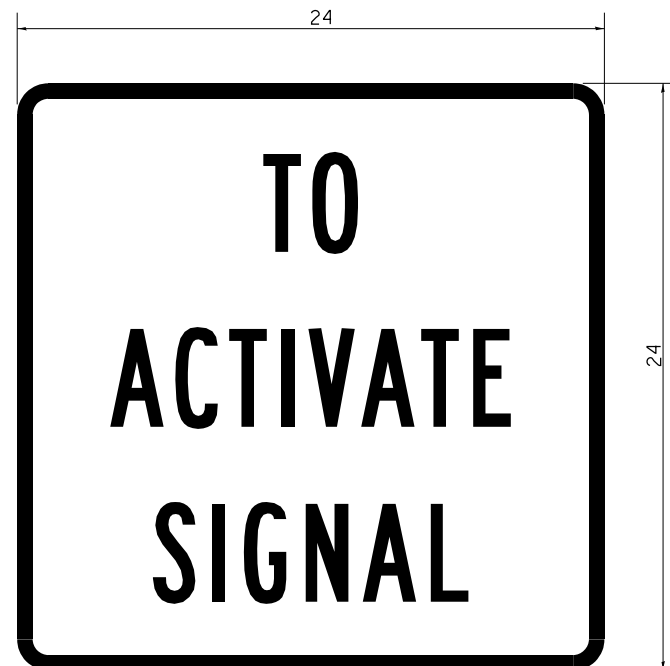
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 24 x 24

4 CAPITAL LETTERS - BLACK

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 INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-11-11

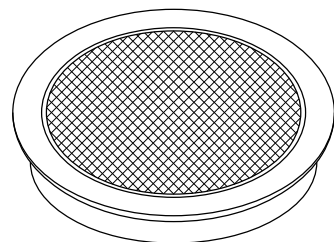
STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		570	101T	JO DAVIESS	64	43
REVISED -		CONTRACT NO. 64F75				
REVISED -		SCALE: 100.0000' / 1" = 100'	SHEET NO.	OF	SHEETS	STA.

PLOT DATE = Tue Jan 22 11:40:22 2013

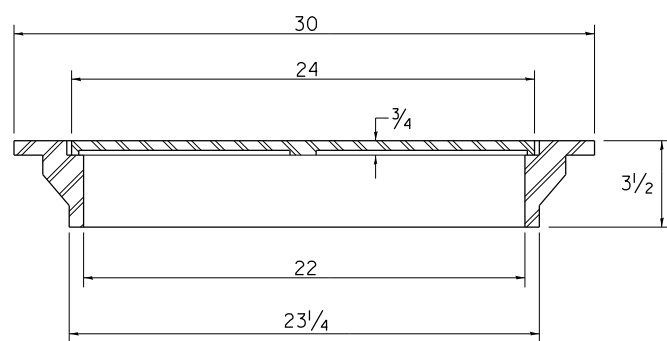
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FIELD TILE JUNCTION VAULTS 24 AND 36 DIA.

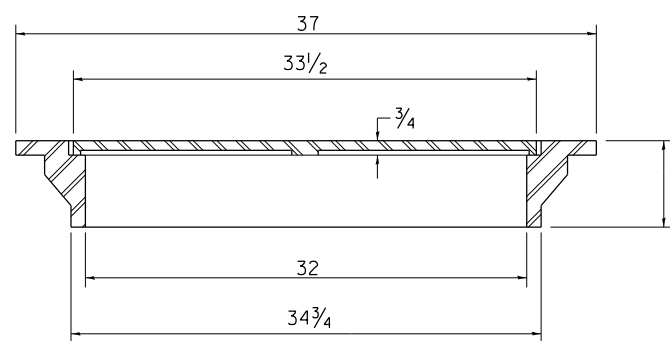


FRAME & LID FOR
24 VAULT

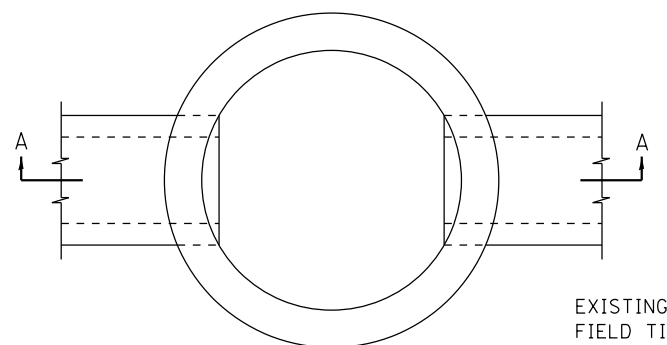
FRAME & LID FOR
36 VAULT



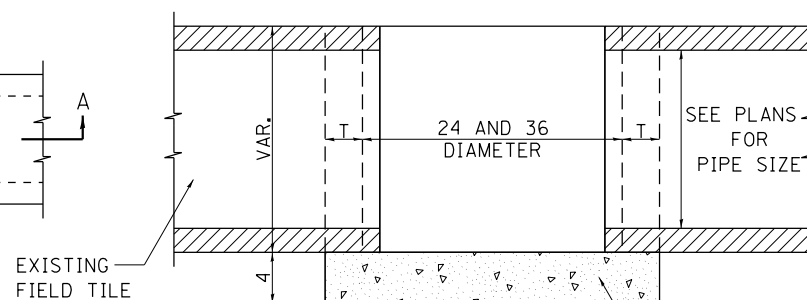
TOTAL WEIGHT: 146 LBS.



TOTAL WEIGHT: 280 LBS.



PLAN

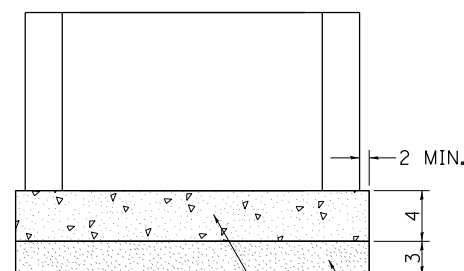


CAST-IN-PLACE CONCRETE
SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3

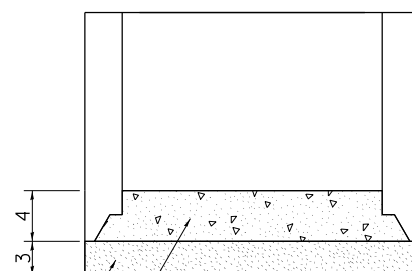
NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



PRECAST REINFORCED
CONCRETE SLAB

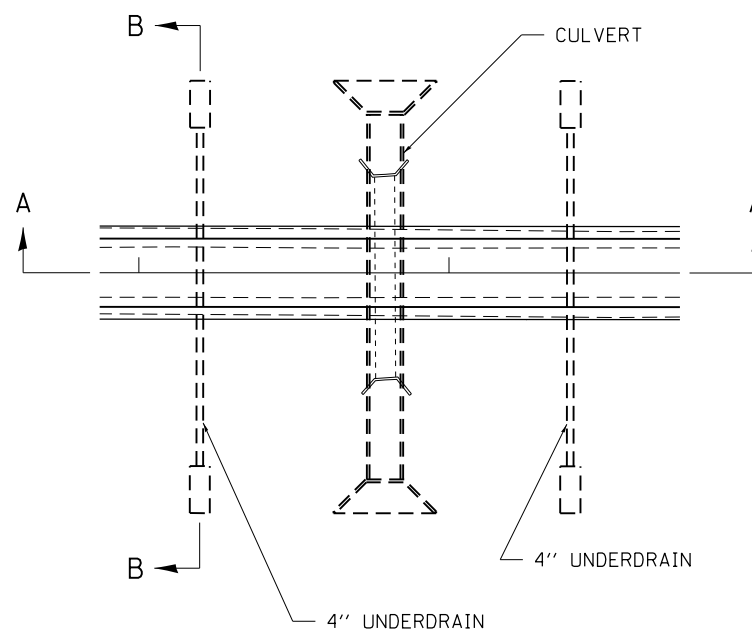
SAND CUSHION
ALTERNATE METHODS



PREFABRICATED CONCRETE SLAB,
WHEN THE PRECAST REINFORCED
CONCRETE SECTION ALTERNATE
IS USED.

REVISED - 10-14-11

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:

IN SAG CONDITIONS INSTAL PIPE UNDERDRAINS ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2% INSTALL PIPE UNDERDRAINS ON THE HIGH SIDE OF THE CULVERT.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATION.

THE UNDERDRAIN SHALL EXTEND UNTIL INTERSECTING WITH THE SIDE SLOPES. THE PIPES SHALL DRAIN INTO CONCRETE HEADWALLS. (SEE ARTICLE 601.05 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARDS 601101).

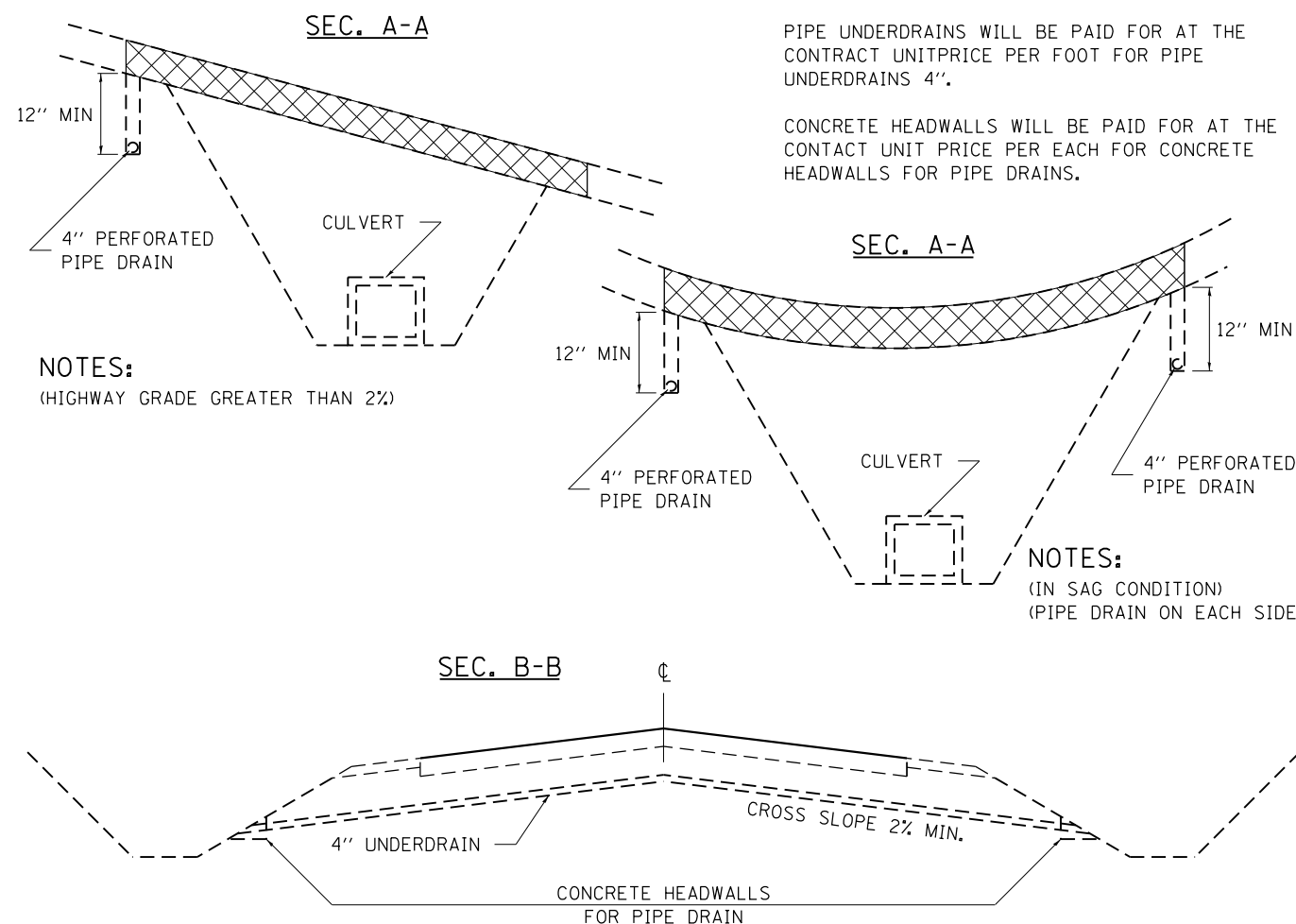
THE UNDERDRAIN SHALL BE A MINIMUM OF 12" BELOW THE EXISTING PAVEMENT.

THE TRENCH FOR THE UNDERDRAIN SHALL BE BACKFILLED WITH CA7 OR CA16.

THE TRENCH SHALL BE WRAPPED USING A FABRIC ENVELOPE MEETING THE REQUIREMENTS OF ARTICLE 1080.05 OF THE STANDARD SPECIFICATIONS. FABRIC ENCASING THE PIPE SHALL BE ELIMINATED.

PIPE UNDERDRAINS WILL BE PAID FOR AT THE CONTRACT UNITPRICE PER FOOT FOR PIPE UNDERDRAINS 4".

CONCRETE HEADWALLS WILL BE PAID FOR AT THE CONTACT UNIT PRICE PER EACH FOR CONCRETE HEADWALLS FOR PIPE DRAINS.



NOTES:

(HIGHWAY GRADE GREATER THAN 2%)

NOTES:

(IN SAG CONDITION)
(PIPE DRAIN ON EACH SIDE)

REVISED - 7-05-12
REVISED -
REVISED -
REVISED -

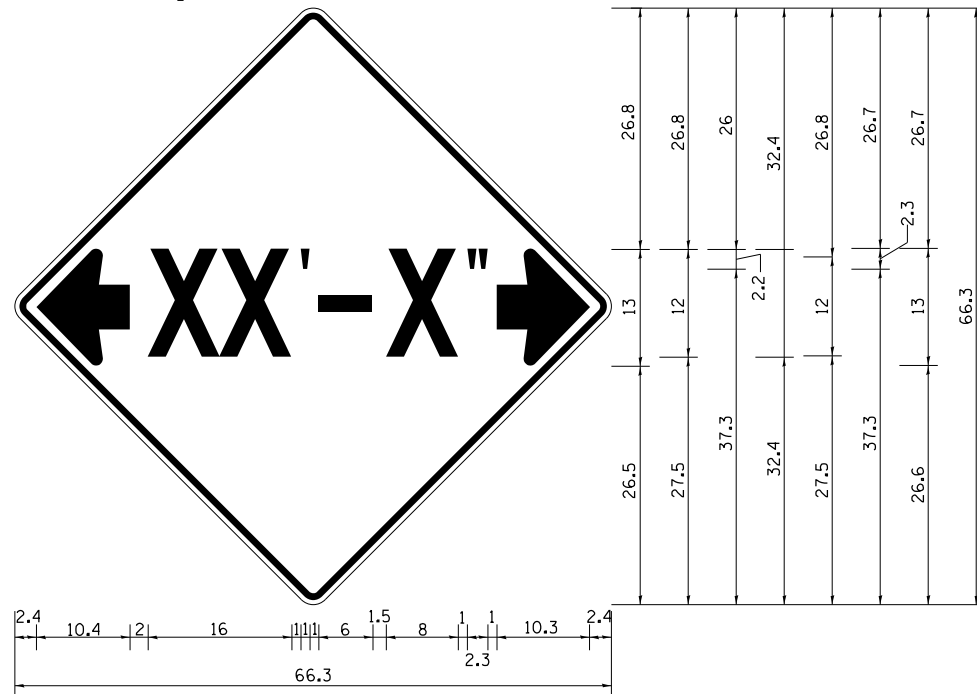
REGION 2 / DISTRICT 2 STANDARD

SCALE: 100.0000' / 1" SHEET NO. OF SHEETS STA. TO STA.

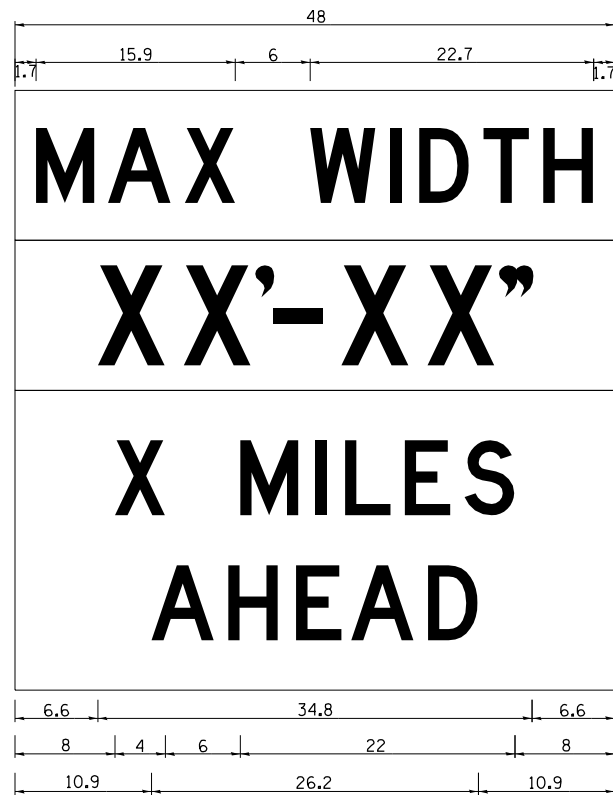
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	44
CONTRACT NO. 64F75				

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

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;

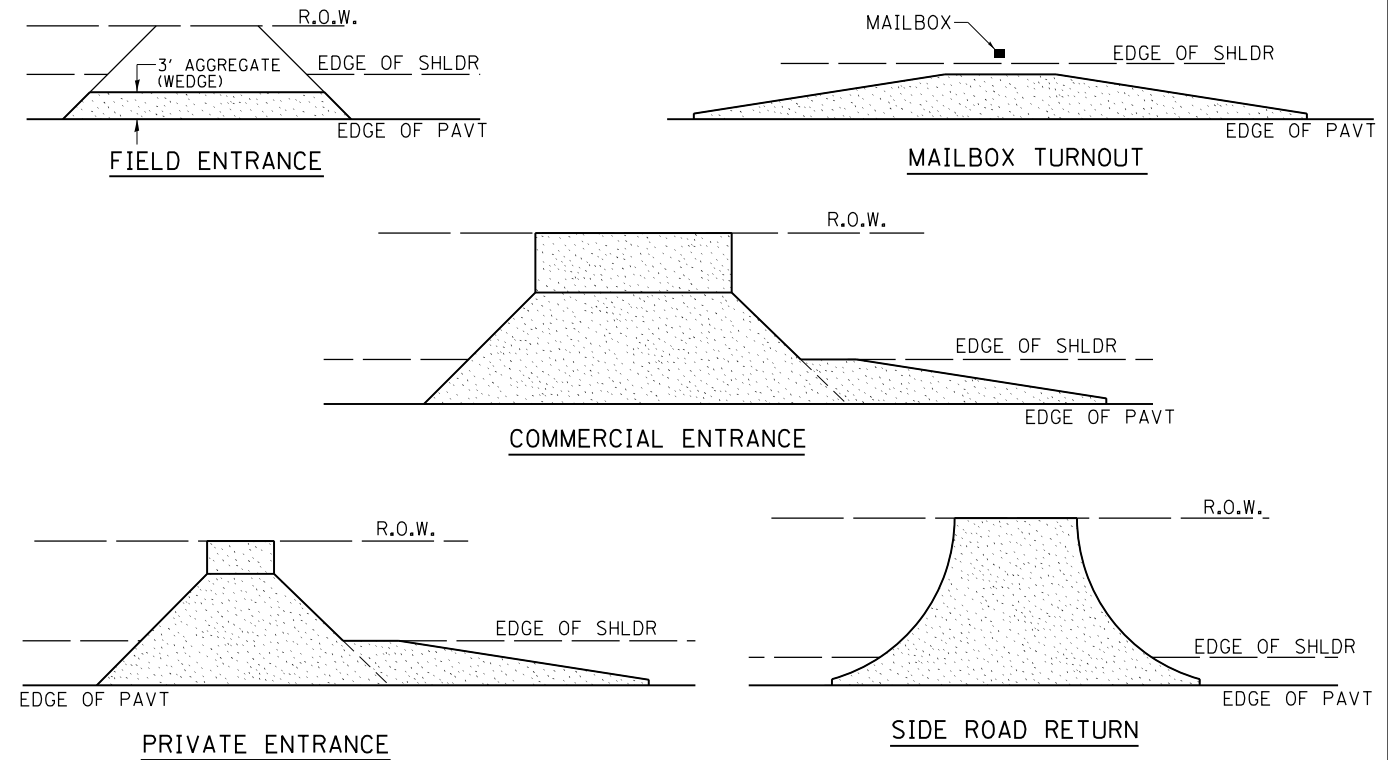
No border, Black on White;
 [X MILES] D; [AHEAD] D;

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

HOT-MIX ASPHALT APPROACHES & MAILBOX RETURNS FOR TWO LIFT (3P) RESURFACING PROJECTS

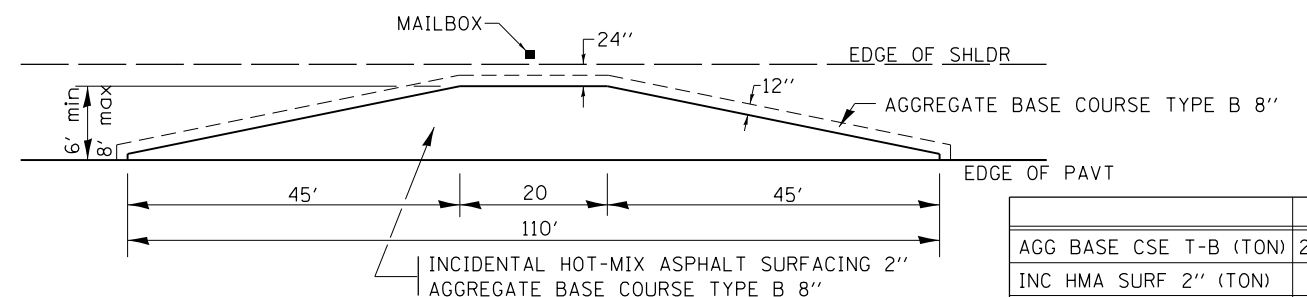


NOTE: EXISTING HMA PE's, CE's, SR's, & MB TURNOUTS
 Place 2 1/4 " Incidental Hot-Mix Asphalt Surfacing #40800050 on entrance to conform to the existing configuration.

EXISTING AGG. PE's & CE's
 Place 2" Incidental Hot-Mix Asphalt Surfacing #40800050 on existing entrance to conform to the present configuration.

EXISTING AGG. SIDEROADS
 Place 3" Incidental Hot-Mix Asphalt Surfacing #40800050 on sideroad to conform to the present configuration.

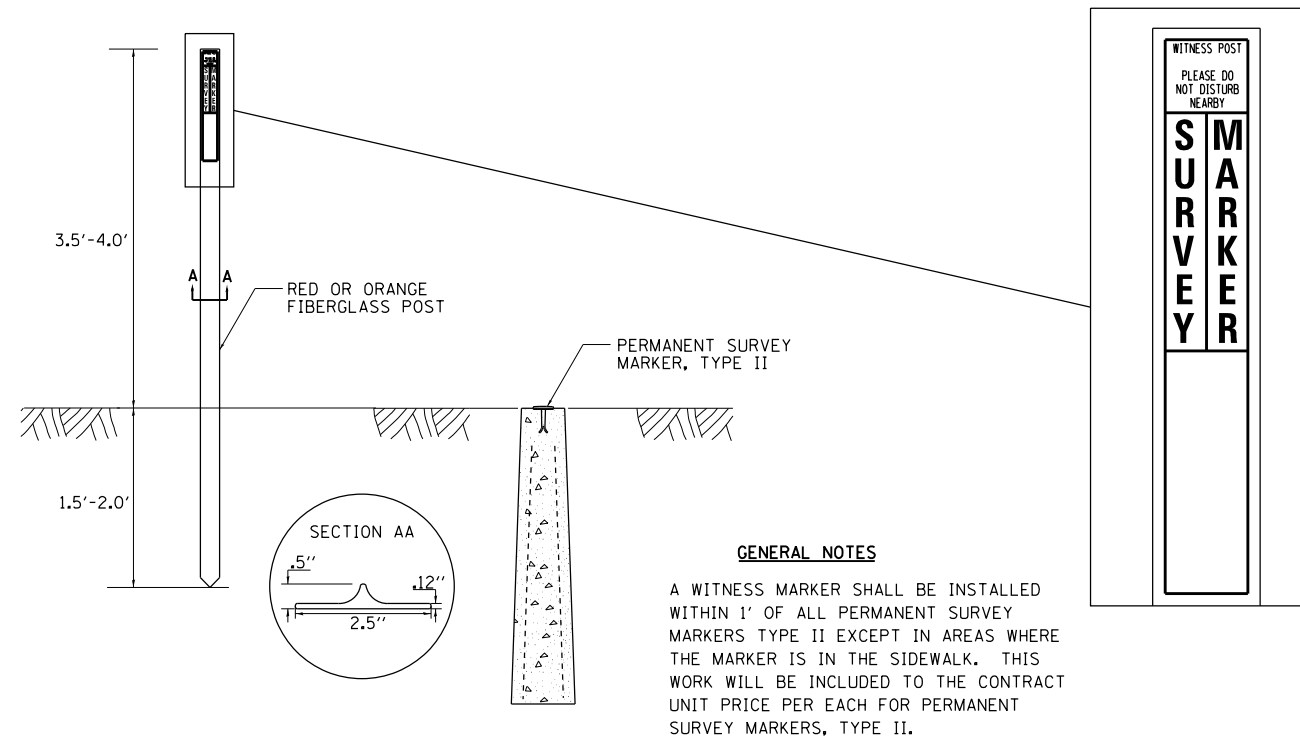
EXISTING AGG. MAILBOX TURNOUTS
 Existing Agg. Mailbox Turnouts shall be constructed as shown below.



	6'	8'
AGG BASE CSE T-B (TON)	24.5	31.1
INC HMA SURF 2" (TON)	7.3	9.8
BIT PRIME COAT (TON)	0.06	0.08

REVISED - 10-21-08	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			570	101T	JO DAVIESS	64	45
REVISED -			CONTRACT NO. 64F75				
REVISED -	SCALE: 100.0000' / 1"	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

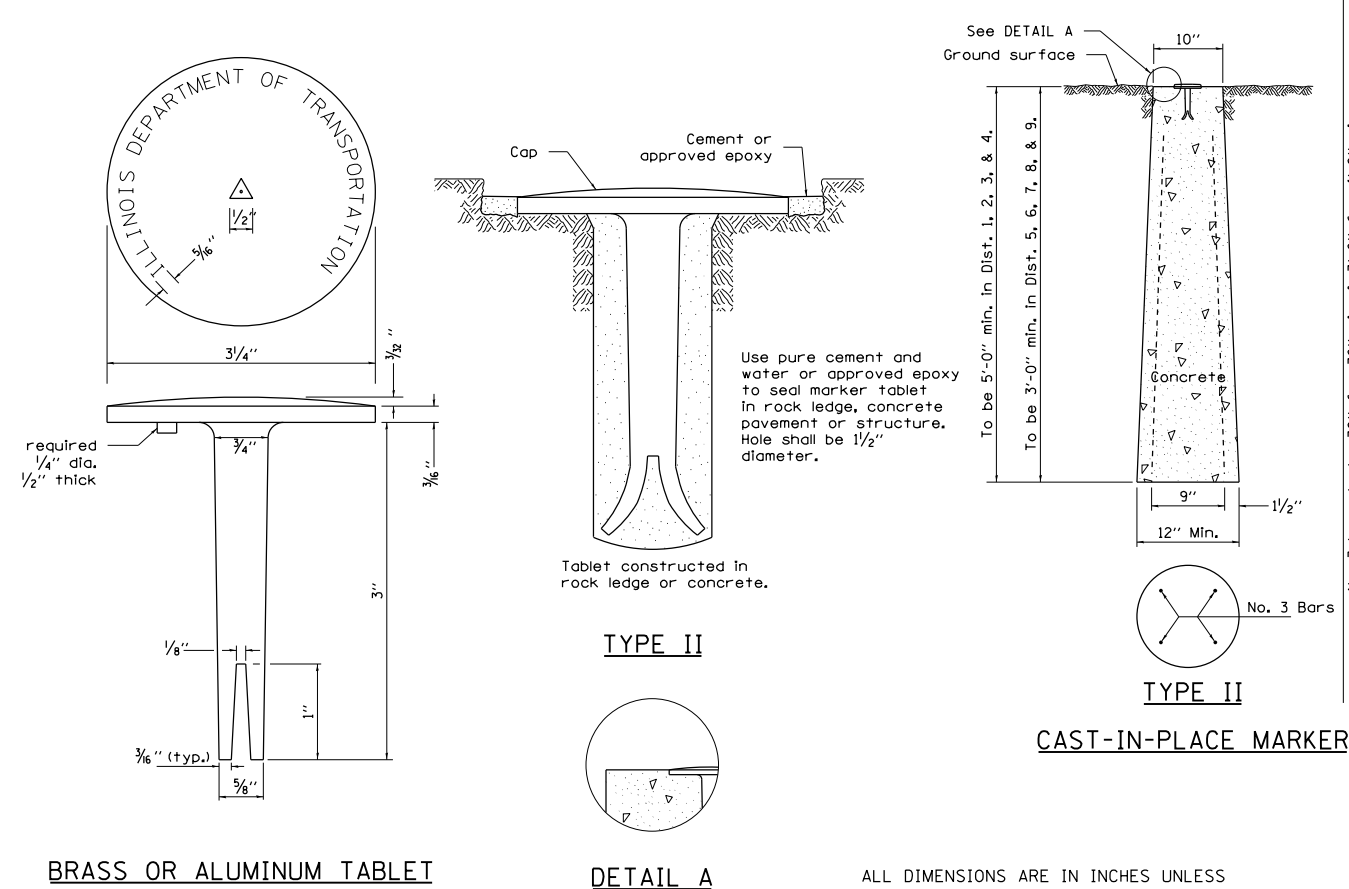
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



GENERAL NOTES

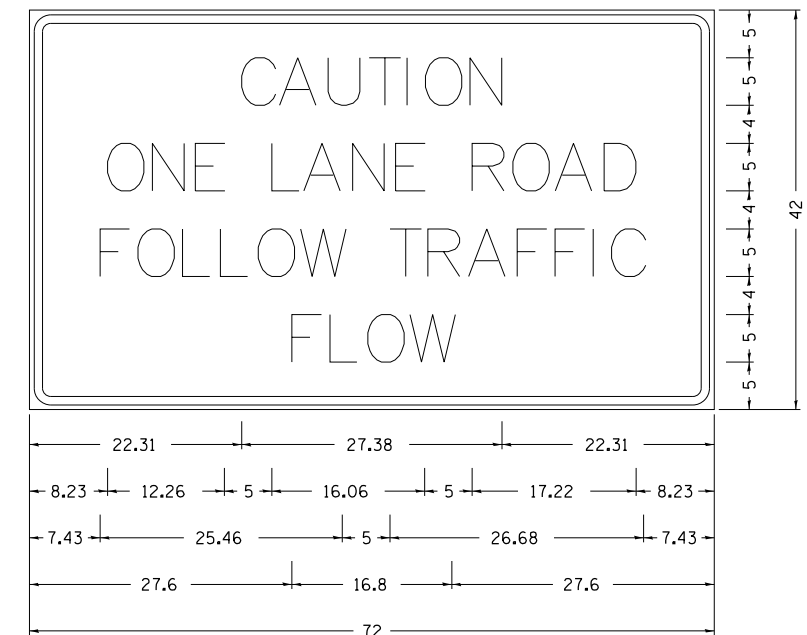
A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

PERMANENT SURVEY MARKERS, TYPE II



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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													
	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.

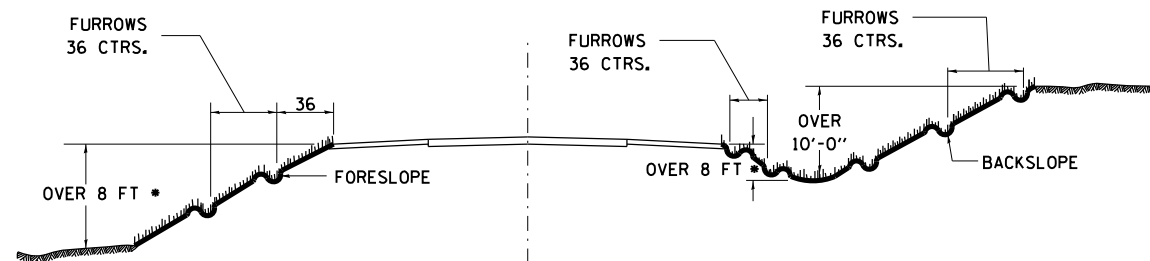
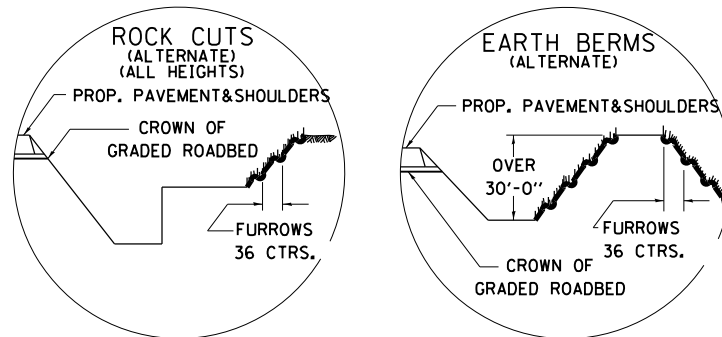
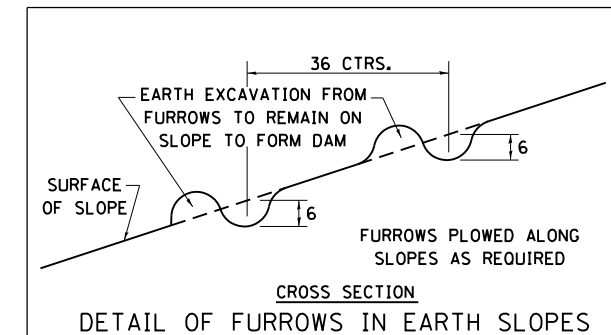
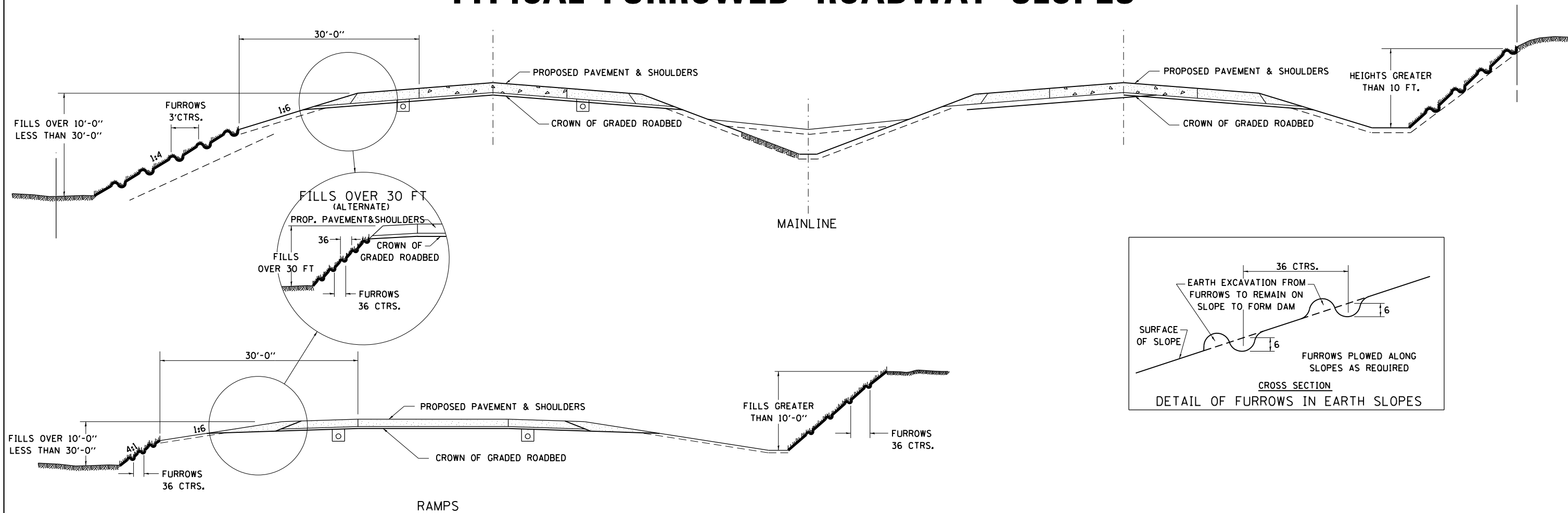
THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-14-11

REVISED - 10-14-11	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -			570	101T	JO DAVIESS	64	46
REVISED -			CONTRACT NO. 64F75				
REVISED -	SCALE: 100.0000' / 1"	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

TYPICAL FURROWED ROADWAY SLOPES



CROSSROAD GRADE SEPERATIONS

GENERAL NOTES

IN GENERAL, THE ENTIRE EARTH SURFACE WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED AND MULCHED.

NO AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO THE GRADED ROADBED.

FORESLOPES AND/OR BACKSLOPES 10 FT. OR LESS IN HEIGHT WILL NOT REQUIRE FURROWING UNLESS OTHERWISE NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

FORESLOPES AND/OR BACKSLOPES OVER 10 FT. IN HEIGHT SHALL BE FURROWED. THE OPERATION SHALL INCLUDE FINISHING THE SLOPES TO FINAL LINE AND GRADE, AS SHOWN ON THE CROSS SECTIONS BEFORE FURROWING IS DONE. FURROWS SHALL BE PLOWED ALONG A LEVEL LINE CONFORMING TO THE CONTOURS OF THE SLOPE. THE COST OF FURROWING SHALL BE CONSIDERED INCLUDED IN THE PROJECT COST AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

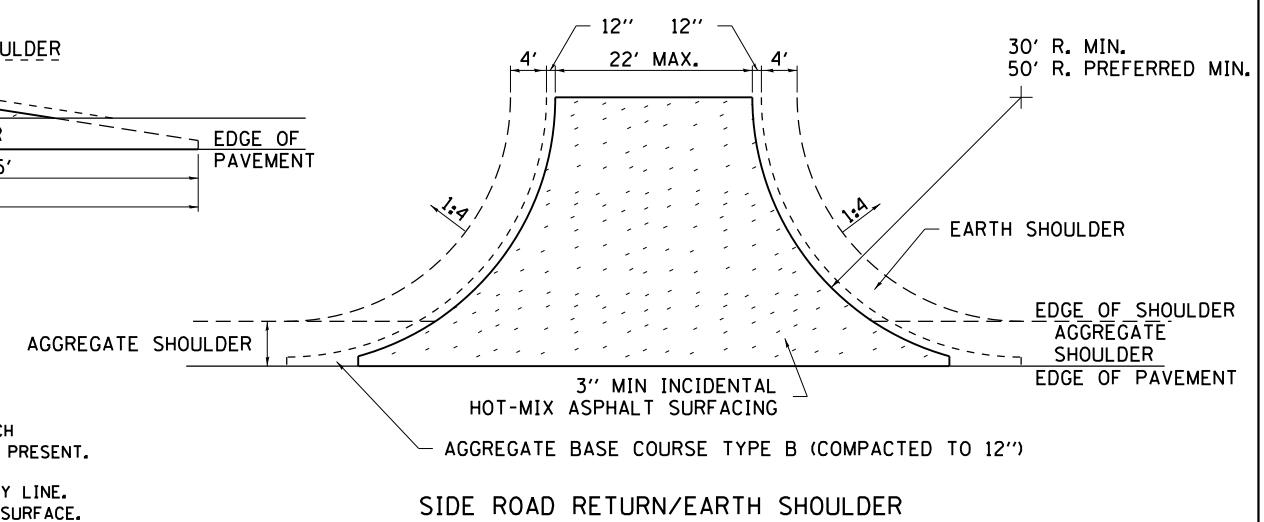
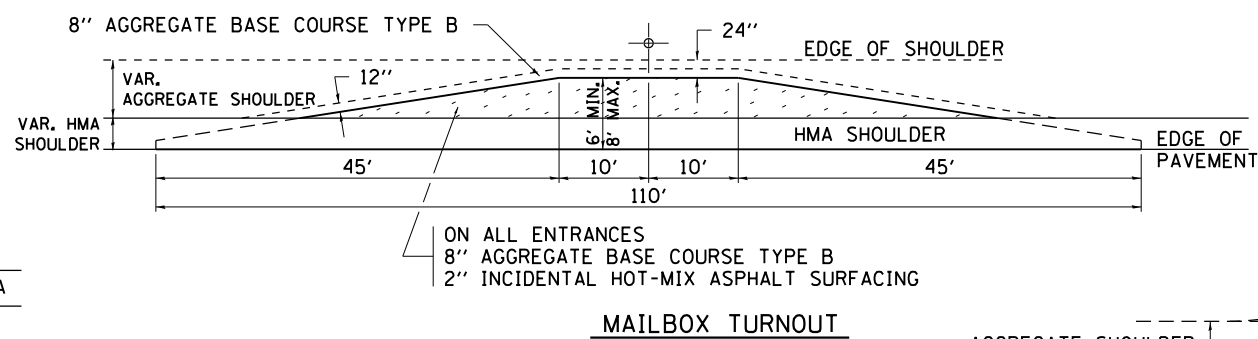
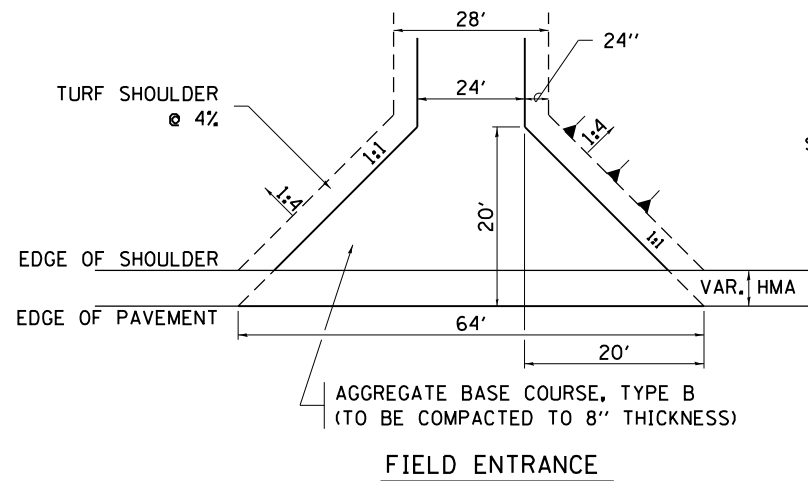
SEQUENCE AND OPERATION FOR SEEDING, MULCHING AND FURROWING OF ROADWAY SLOPES:

1. SPREAD FERTILIZER.
2. PERFORM THE OPERATION OF GROUND PREPARATION.
3. PLOW FURROWS.
4. PERFORM THE OPERATION OF SEEDING. THE SEED SHALL BE SOWN ON THE SURFACE OF THE PREPARED GROUND AFTER FURROWING.
5. THE OPERATION OF COVERING THE SEED, BY HARROWING OR OTHER MEANS, SHALL BE PERFORMED ONLY IF SO DIRECTED BY THE ENGINEER AND SHALL BE INCLUDED TO THE ITEM OF SEEDING.
6. SECTION 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS NOTED HEREIN.

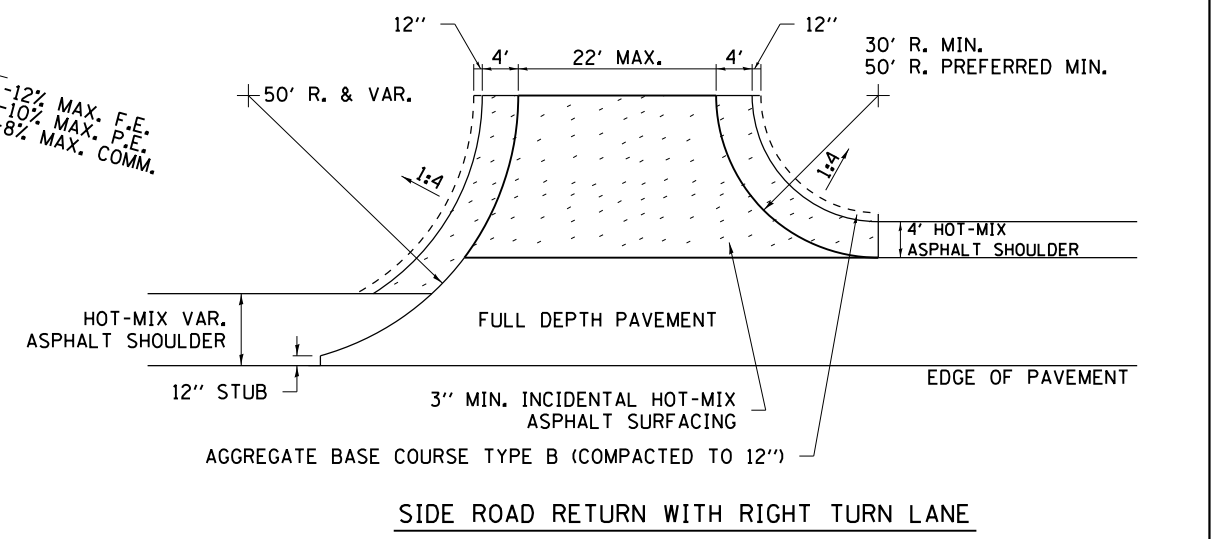
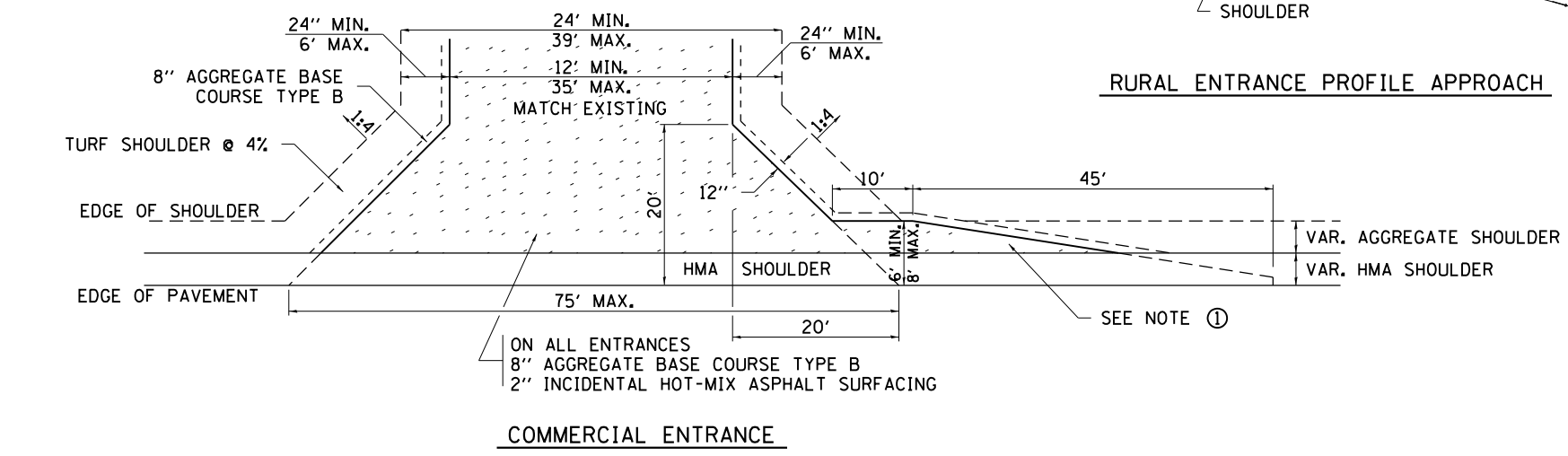
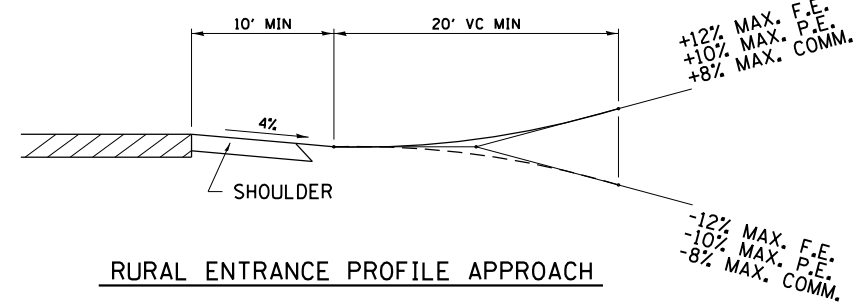
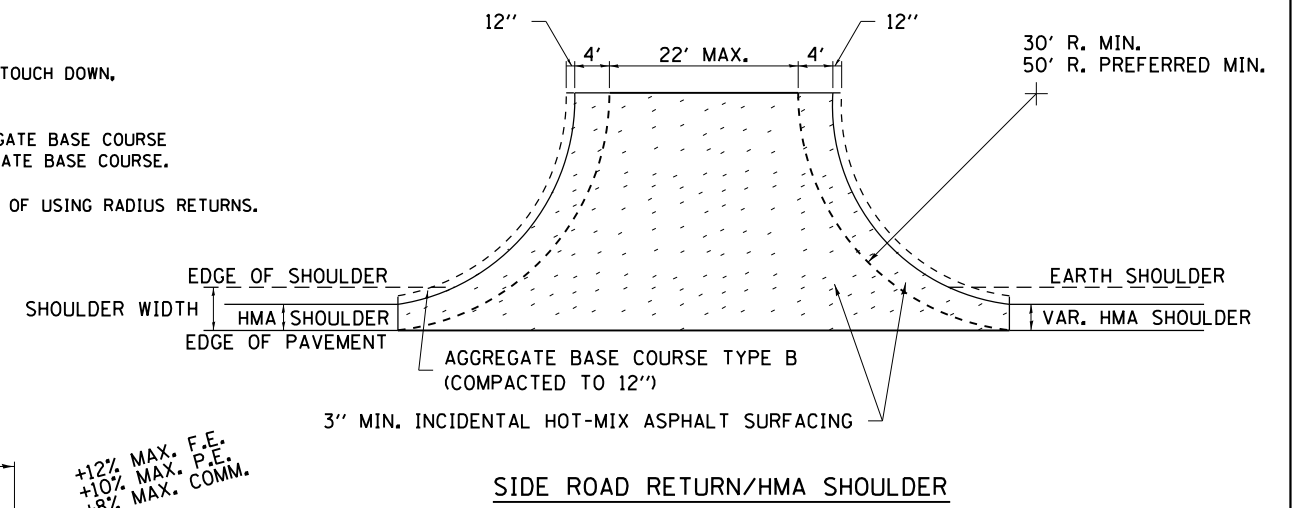
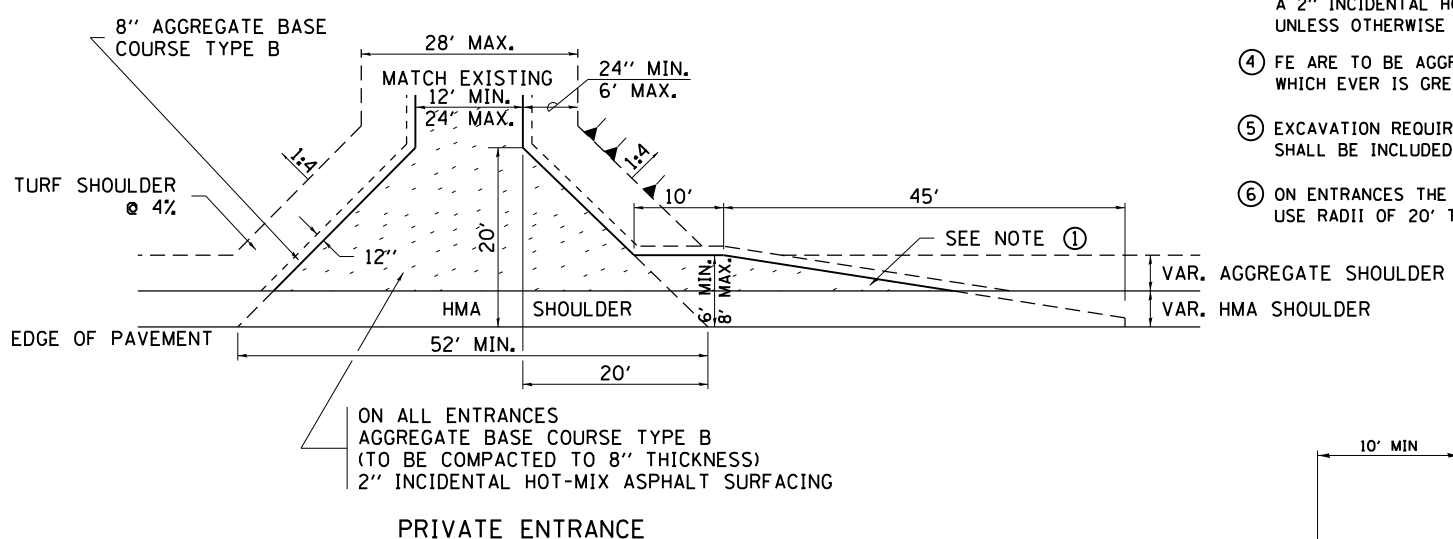
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

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et:\pw\work\p\dot\rundbladerr\d0233029	D201410-shr-cover.dgn	DRAWN -	REVISED -					570	101T	JO DAVIESS	64	47
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 64F75				
	PLOT DATE = Tue Jan 22 11:41:18 2013	DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT APPROACHES AND MAILBOX RETURNS



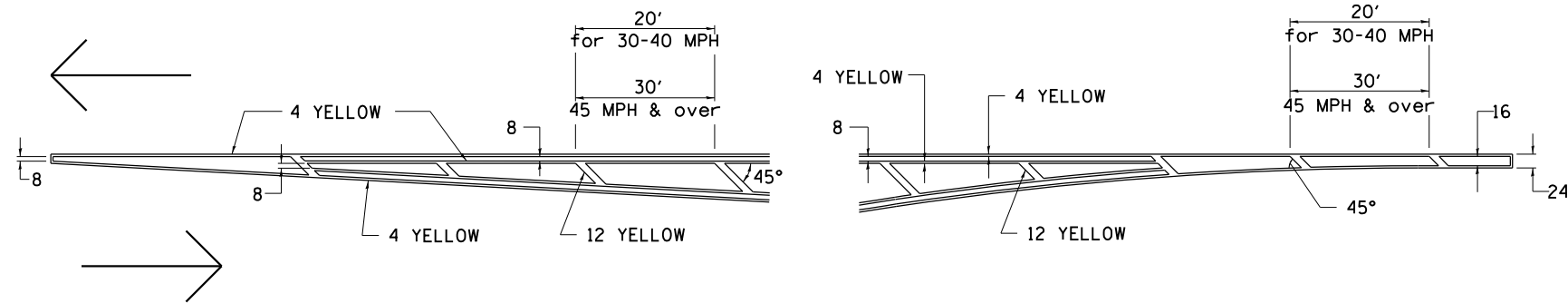
- NOTE**
- TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
 - ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
 - ALL PE & CE TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
 - FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
 - EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
 - ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20' TO 60'.



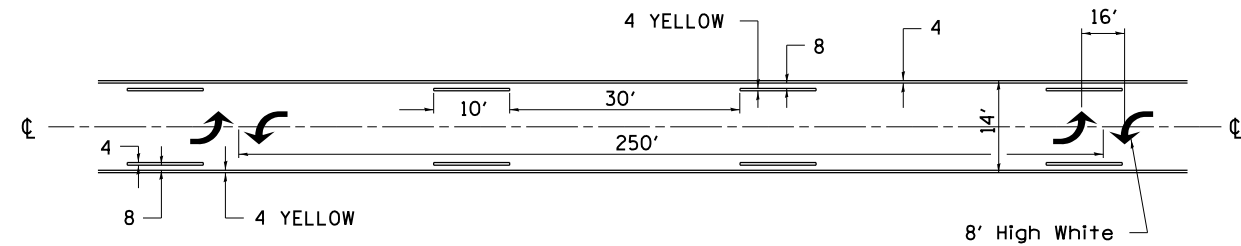
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	PLOT DATE = Tue Jan 22 11:41:38 2013	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

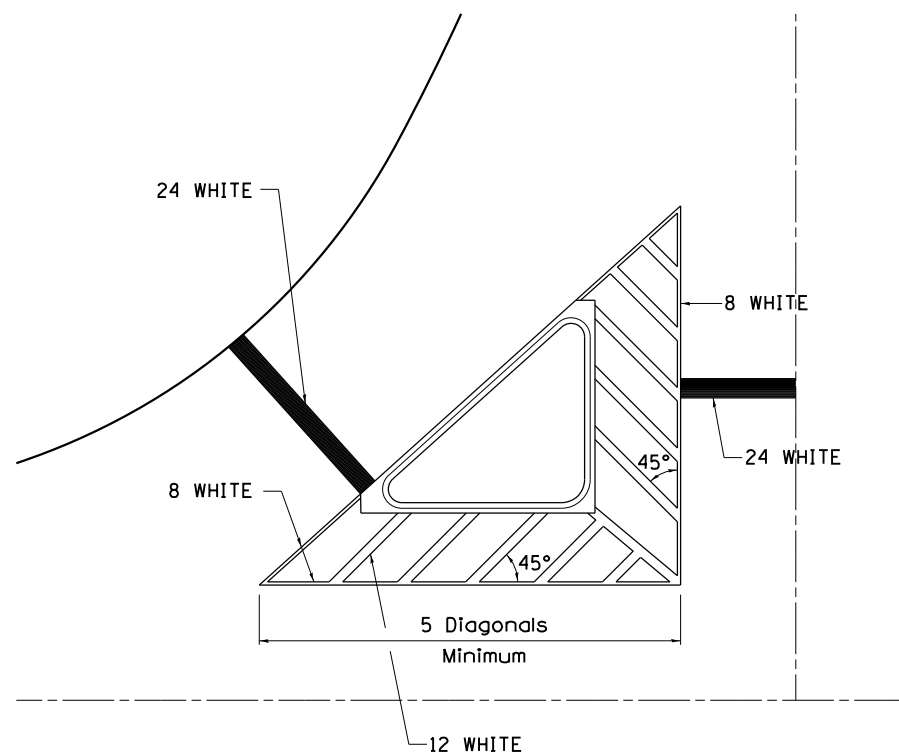


MEDIAN PAVEMENT MARKING

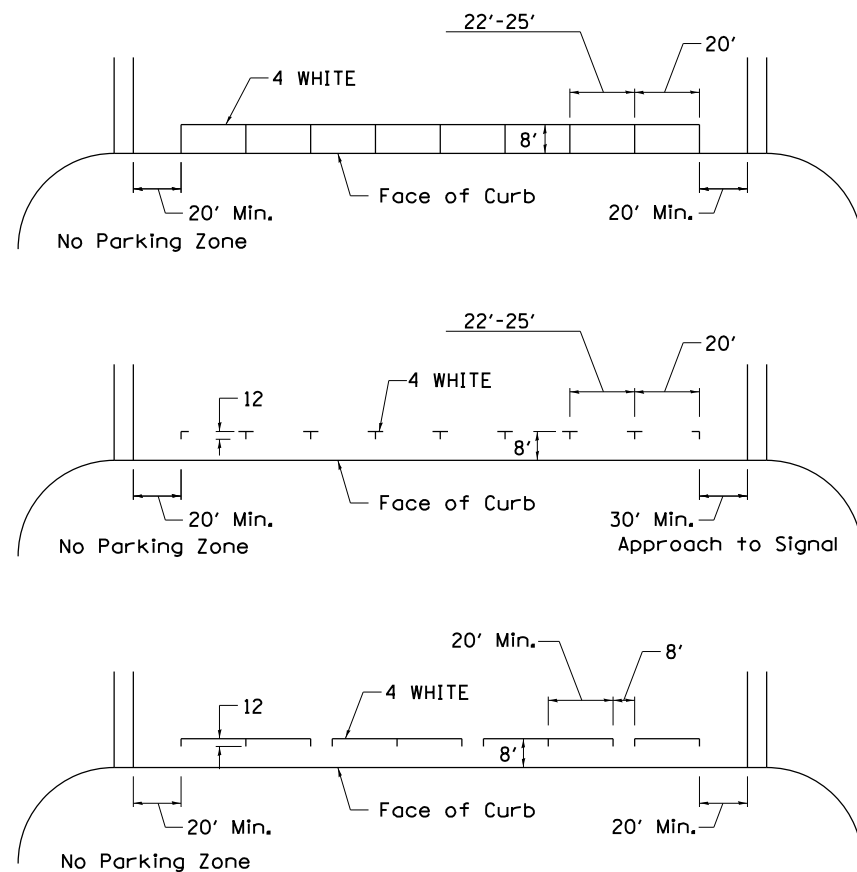


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

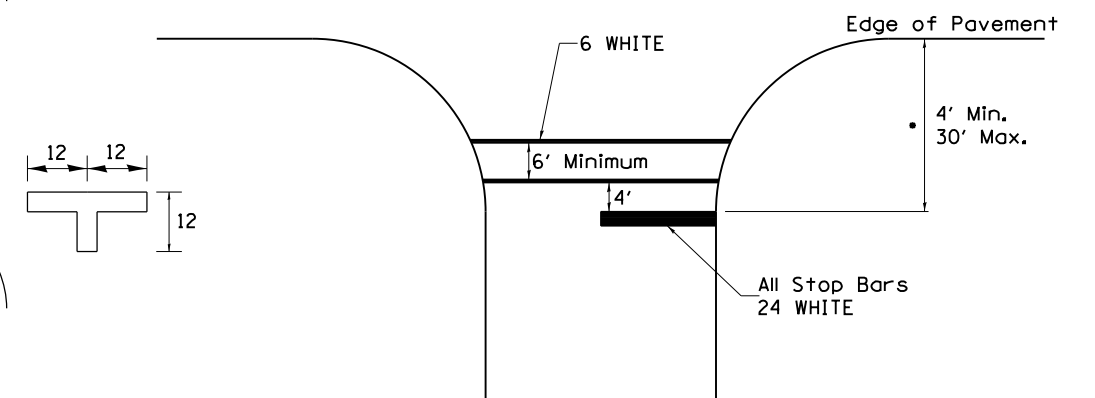


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

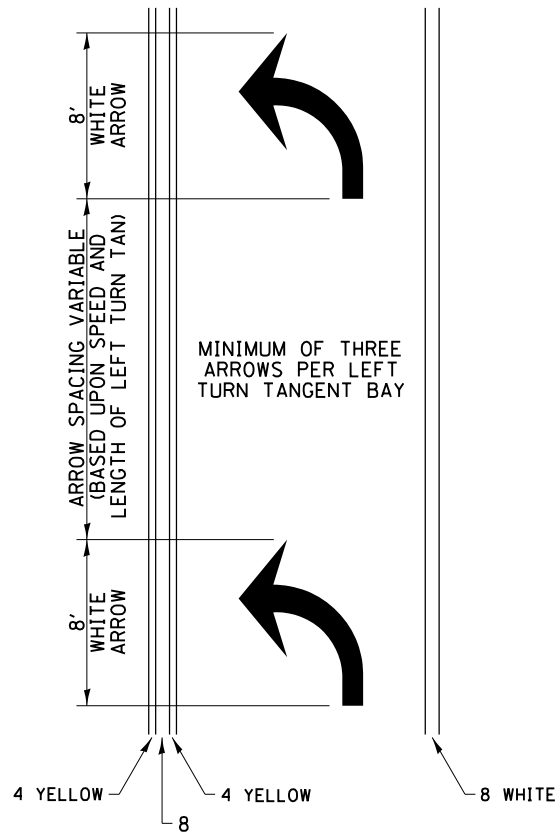


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED - 3-05-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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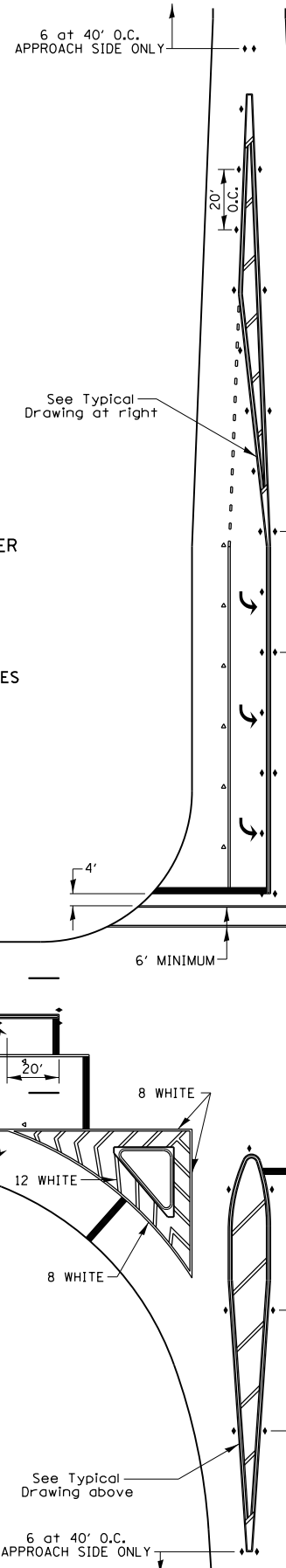
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

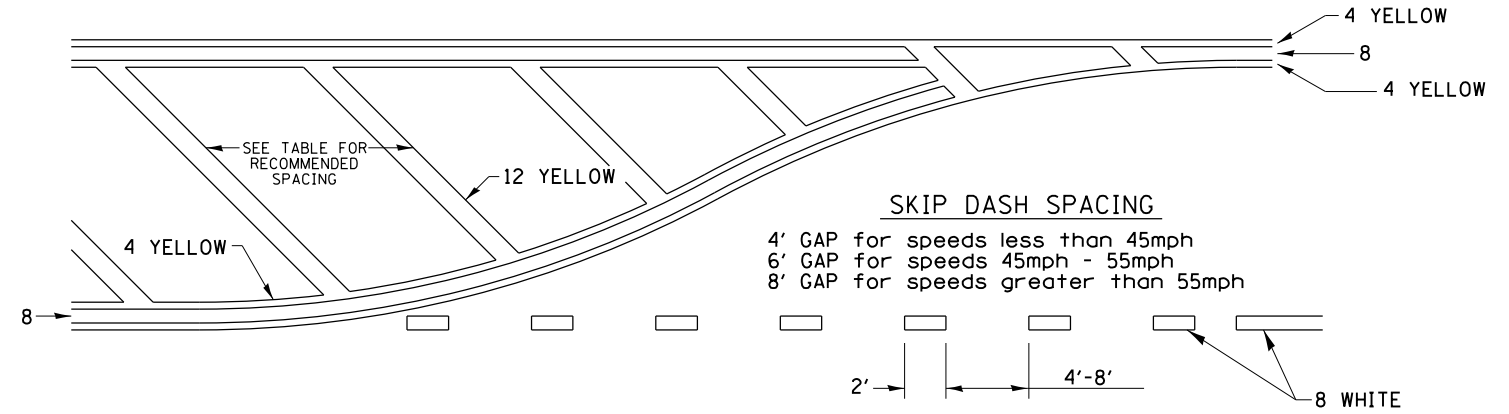


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



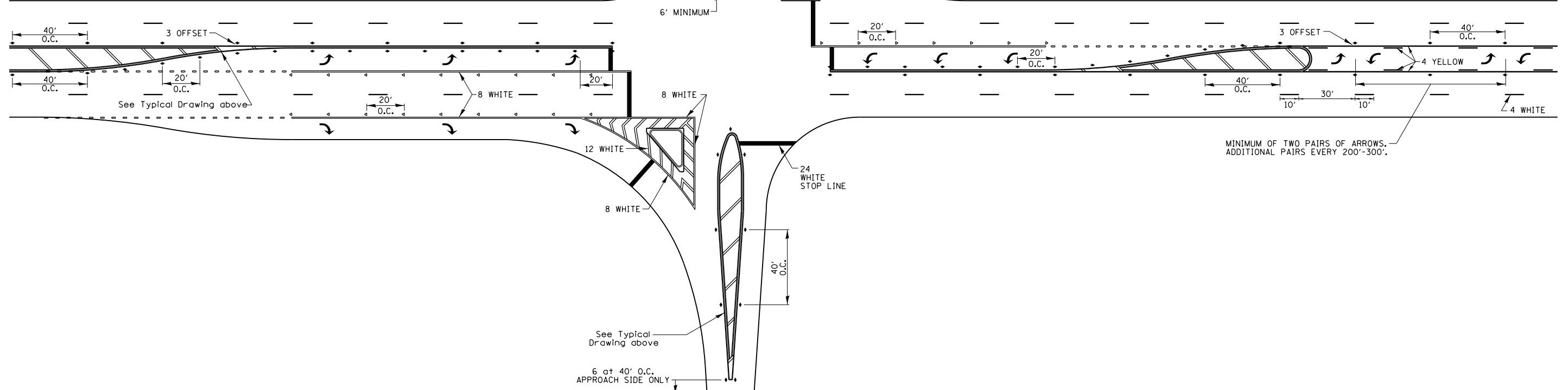
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	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.



FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED - 3-05-12
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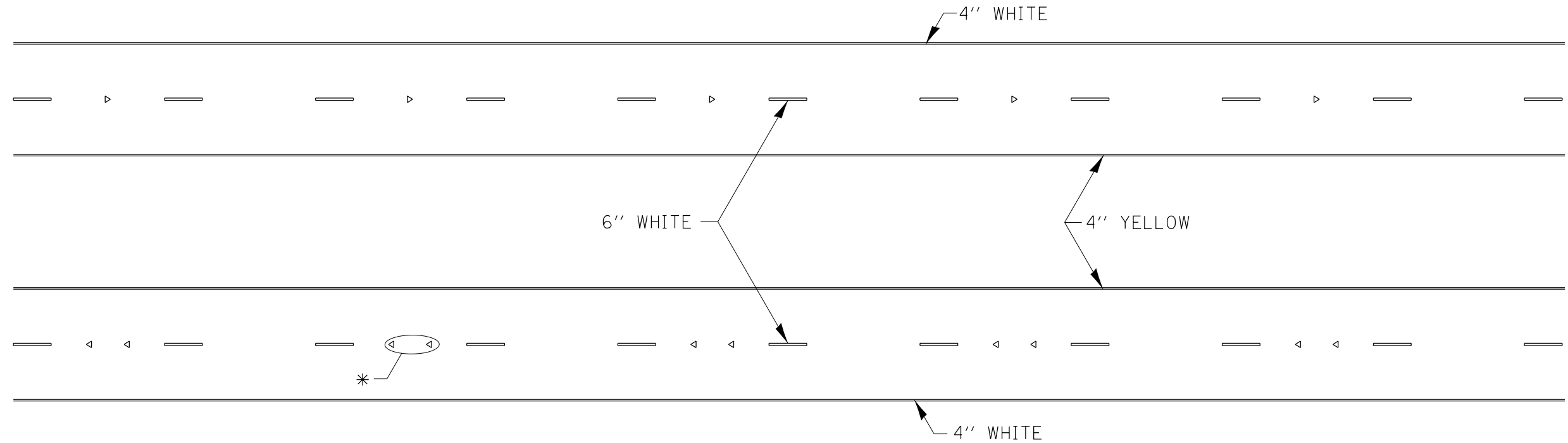
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

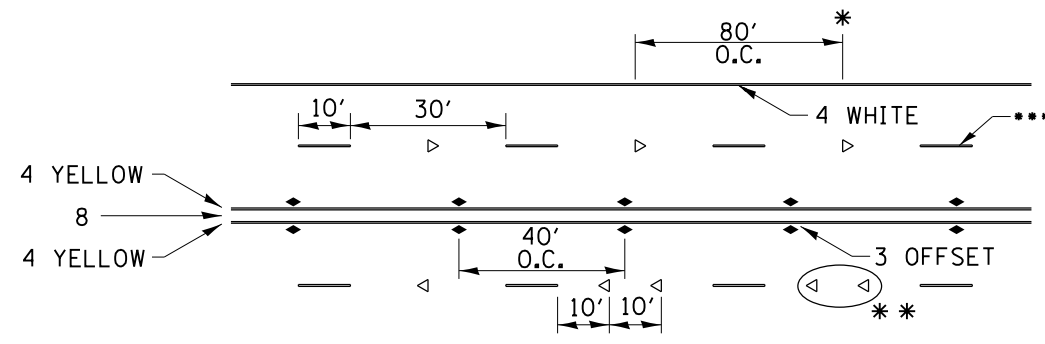
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	50
CONTRACT NO. 64F75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 20,000.

MULTI-LANE / DIVIDED

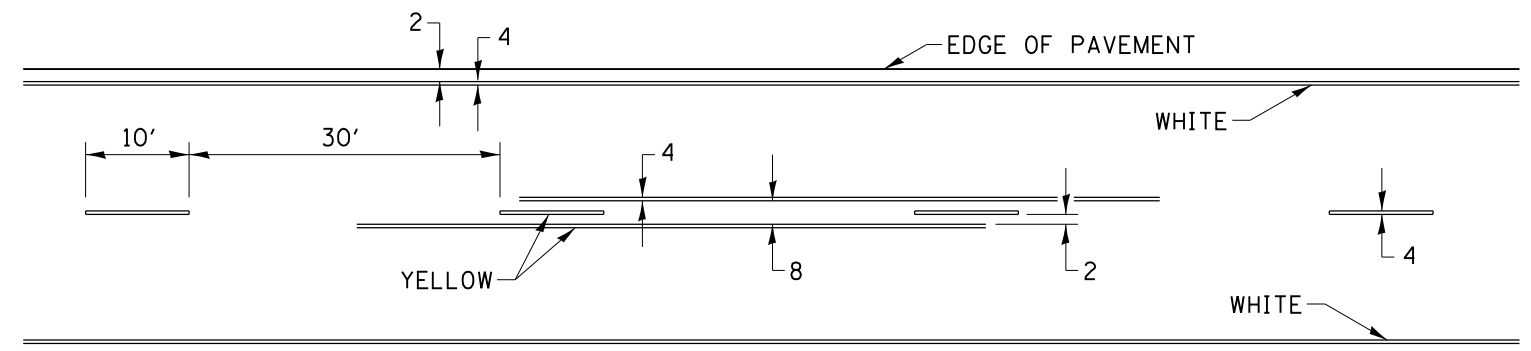


- * REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT \geq 20,000
- *** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE SPEED LIMIT 40 MPH AND OVER USE 6" LINE

MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

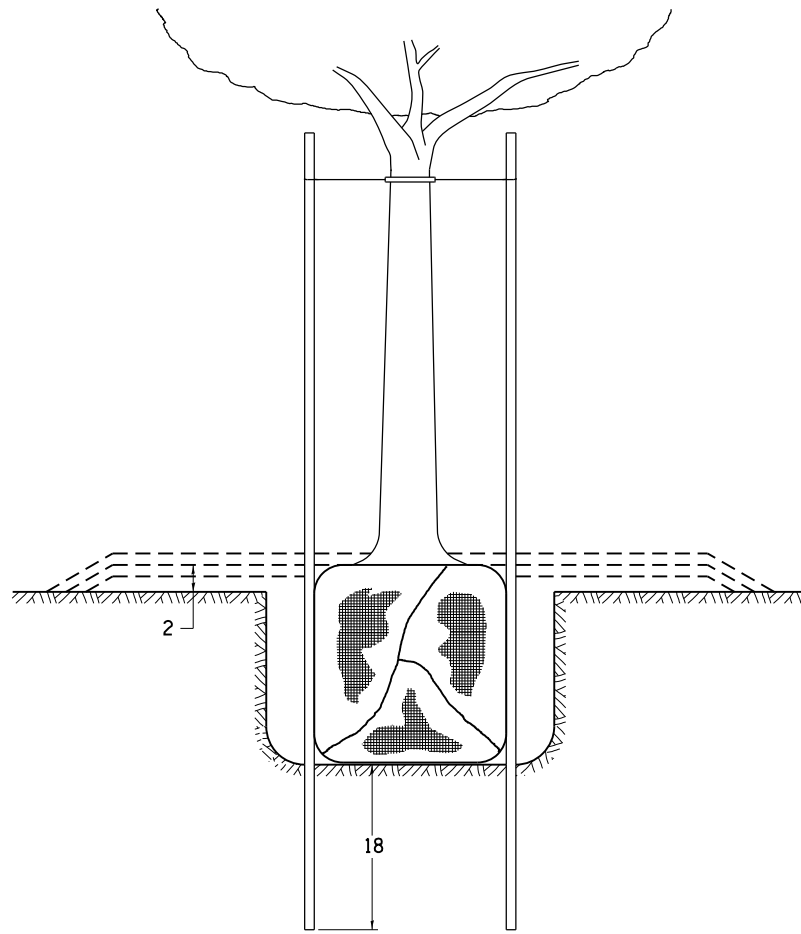
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



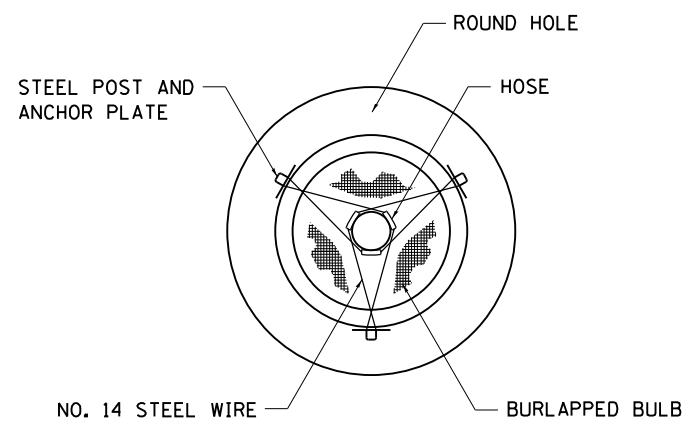
SYMBOLS

FILE NAME =	USER NAME = rundbladerr	DESIGNED -	REVISED - 11-28-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = Tue Jan 22 11:42:21 2013	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

DETAILS OF PLANTING AND BRACING TREES

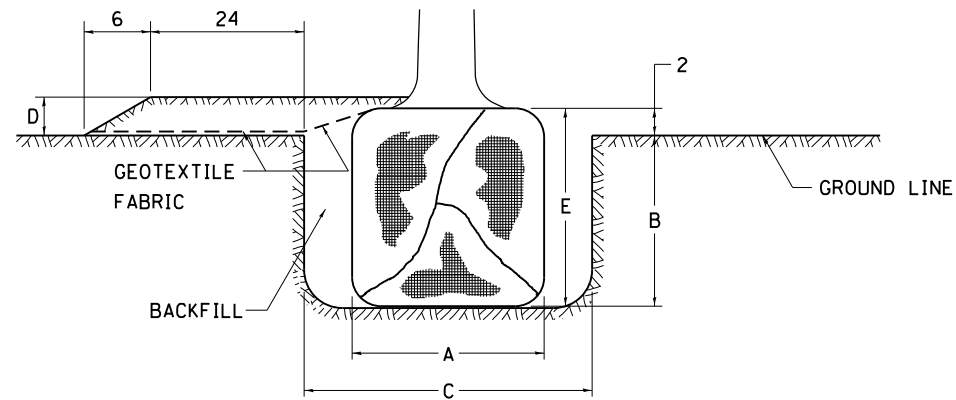


TREES SMALLER THAN 4 1/2 IN DIAMETER

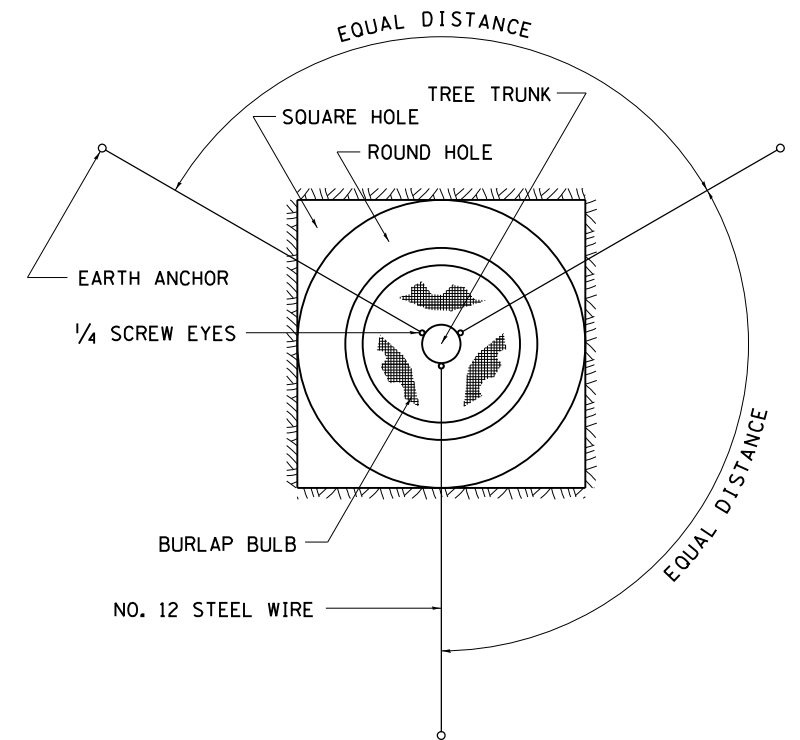


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

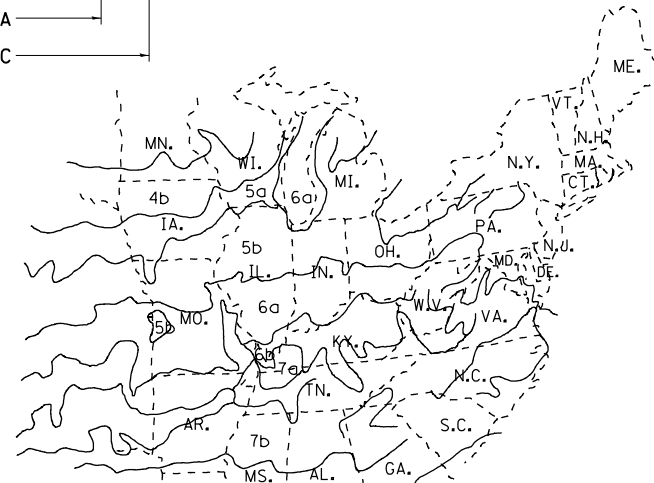
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



PLANT HARDINESS ZONE MAP

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

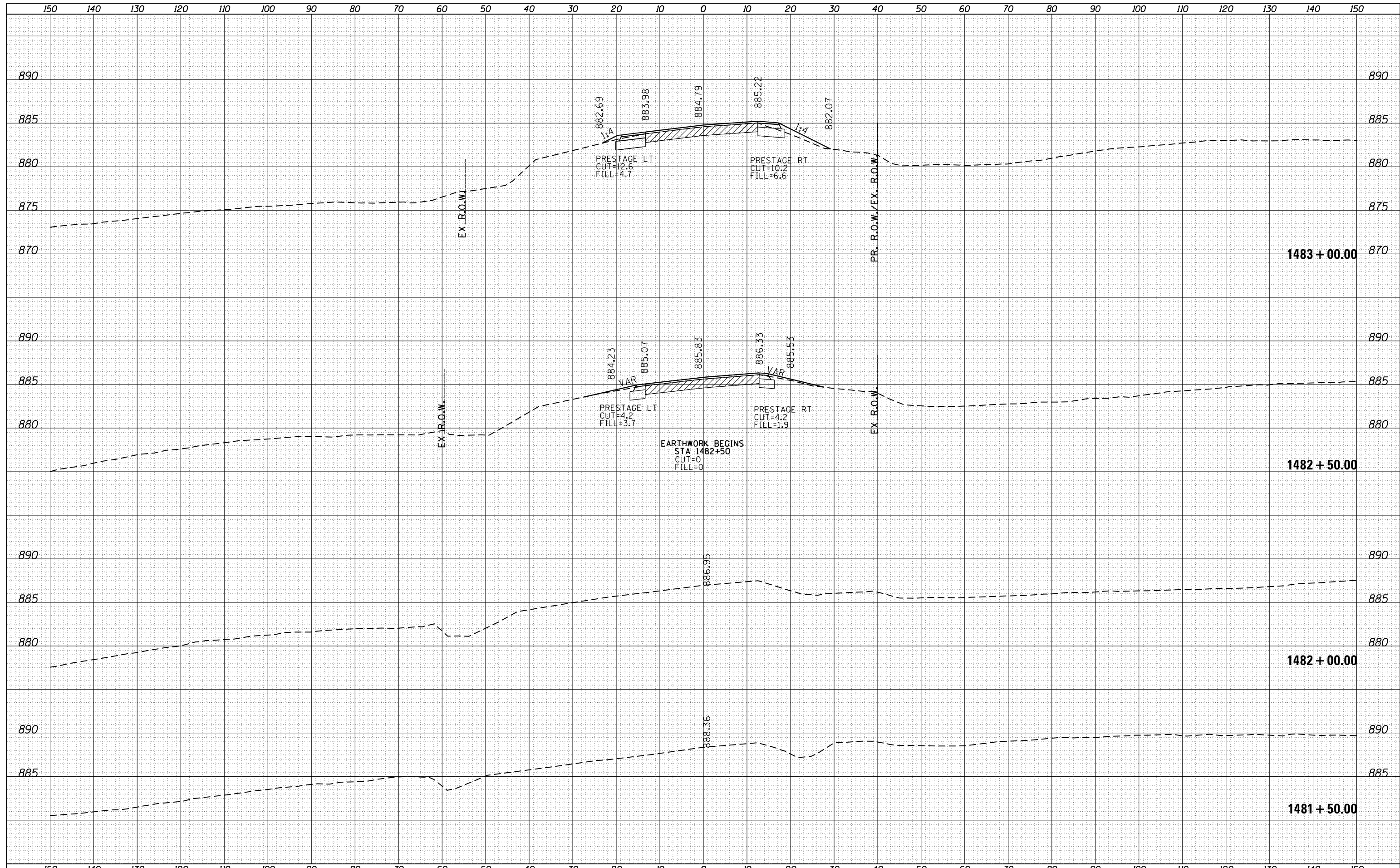
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	52
CONTRACT NO. 64F75				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



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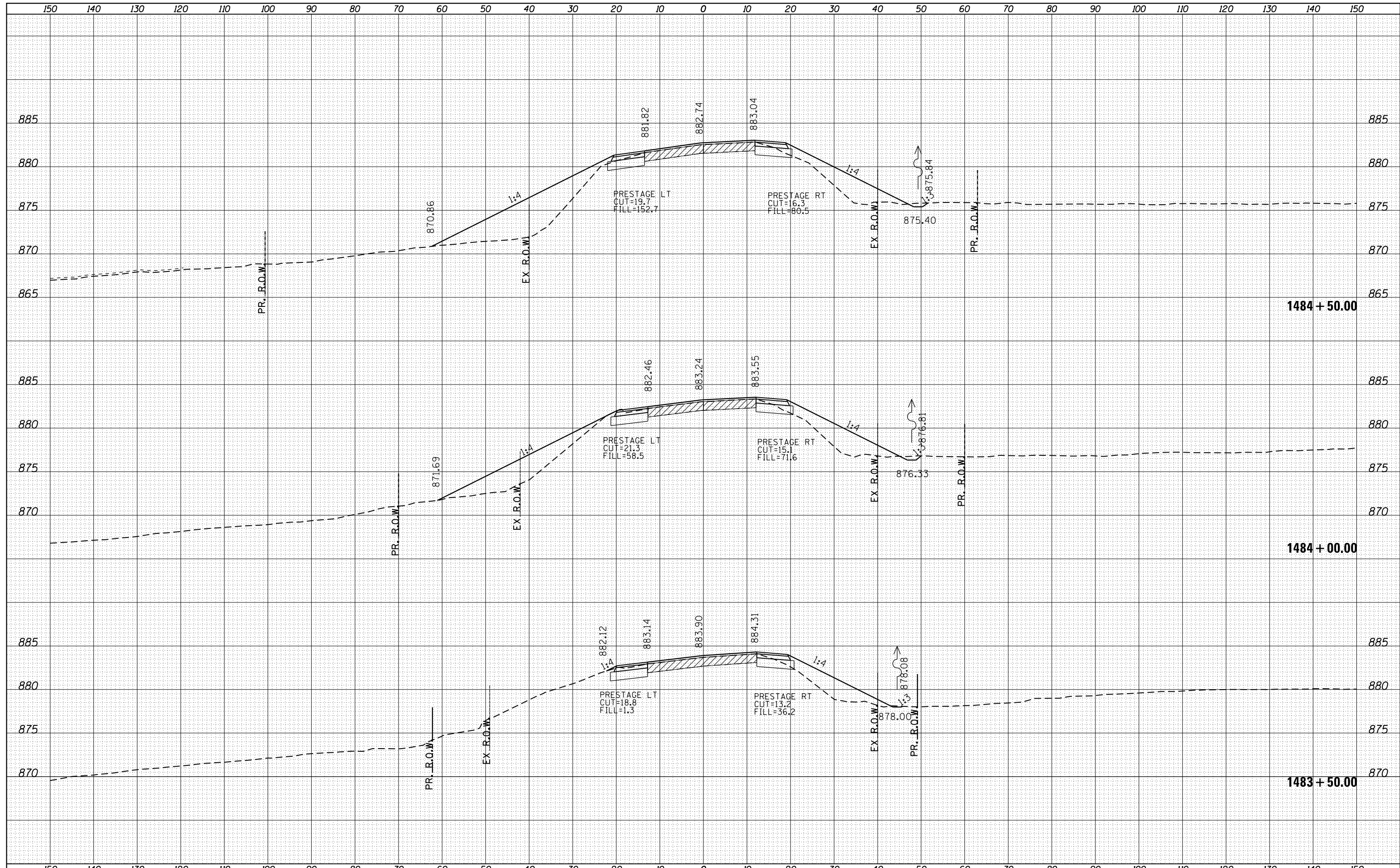
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
570	101T	JO DAVIESS	64
		CONTRACT NO.	64F75
SCALE: _____	SHEET _____	OF _____ SHEETS	STA. 1481+50.00 TO STA. 1483+00.00

ILLINOIS FED. AID PROJECT

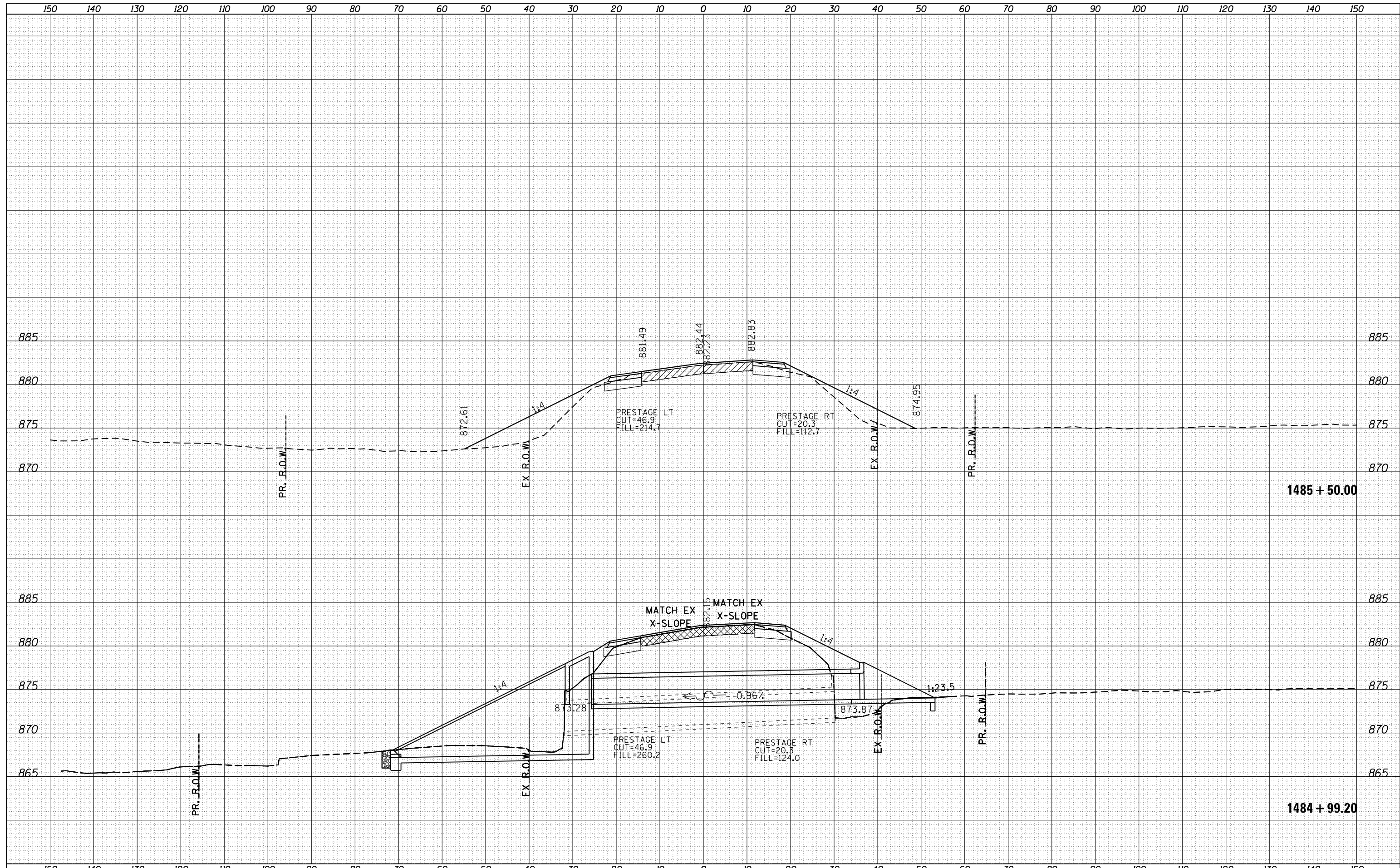
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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



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

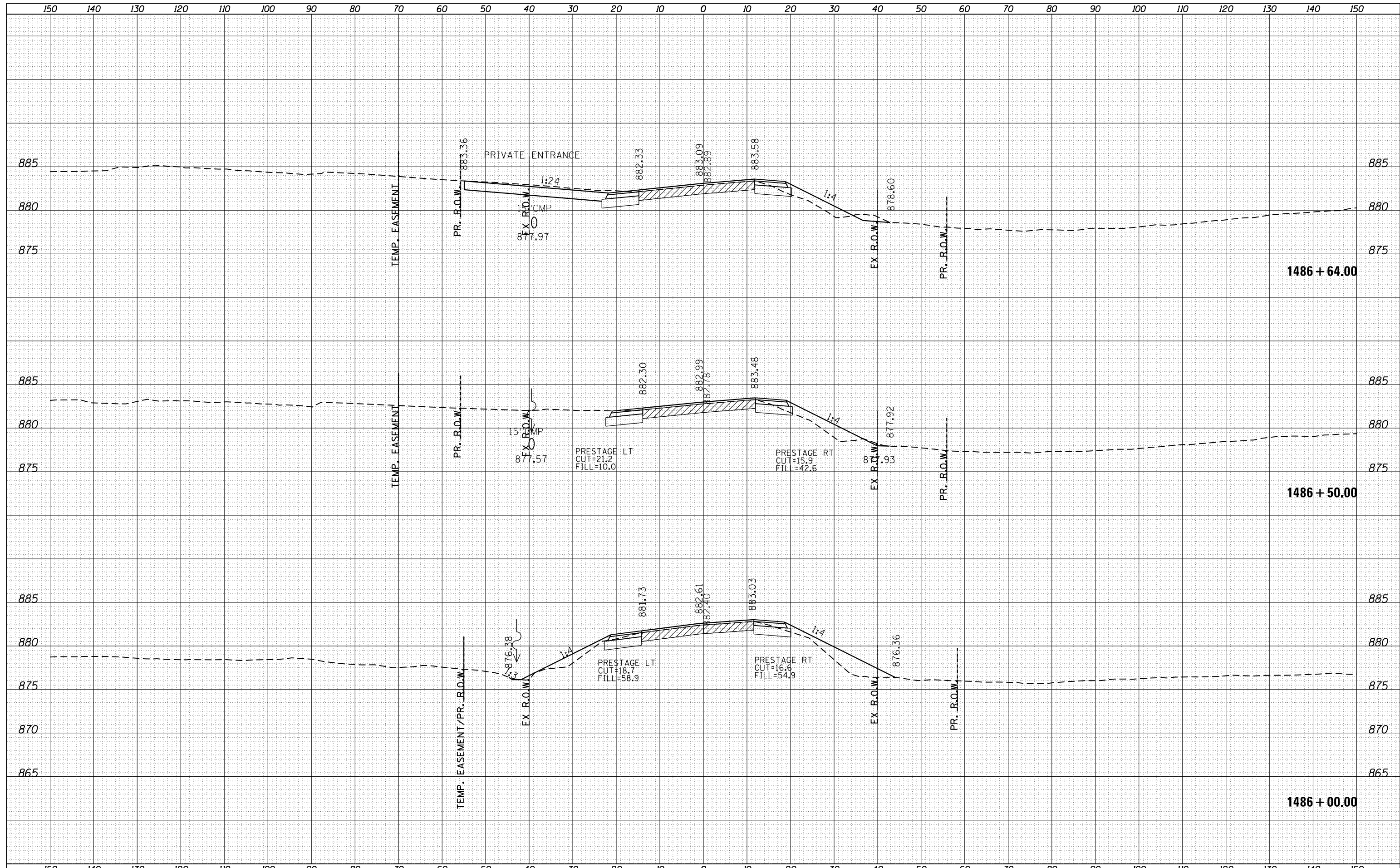
CROSS SECTION

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 1484+99.20 TO STA. 1485+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	55
				CONTRACT NO. 64F75
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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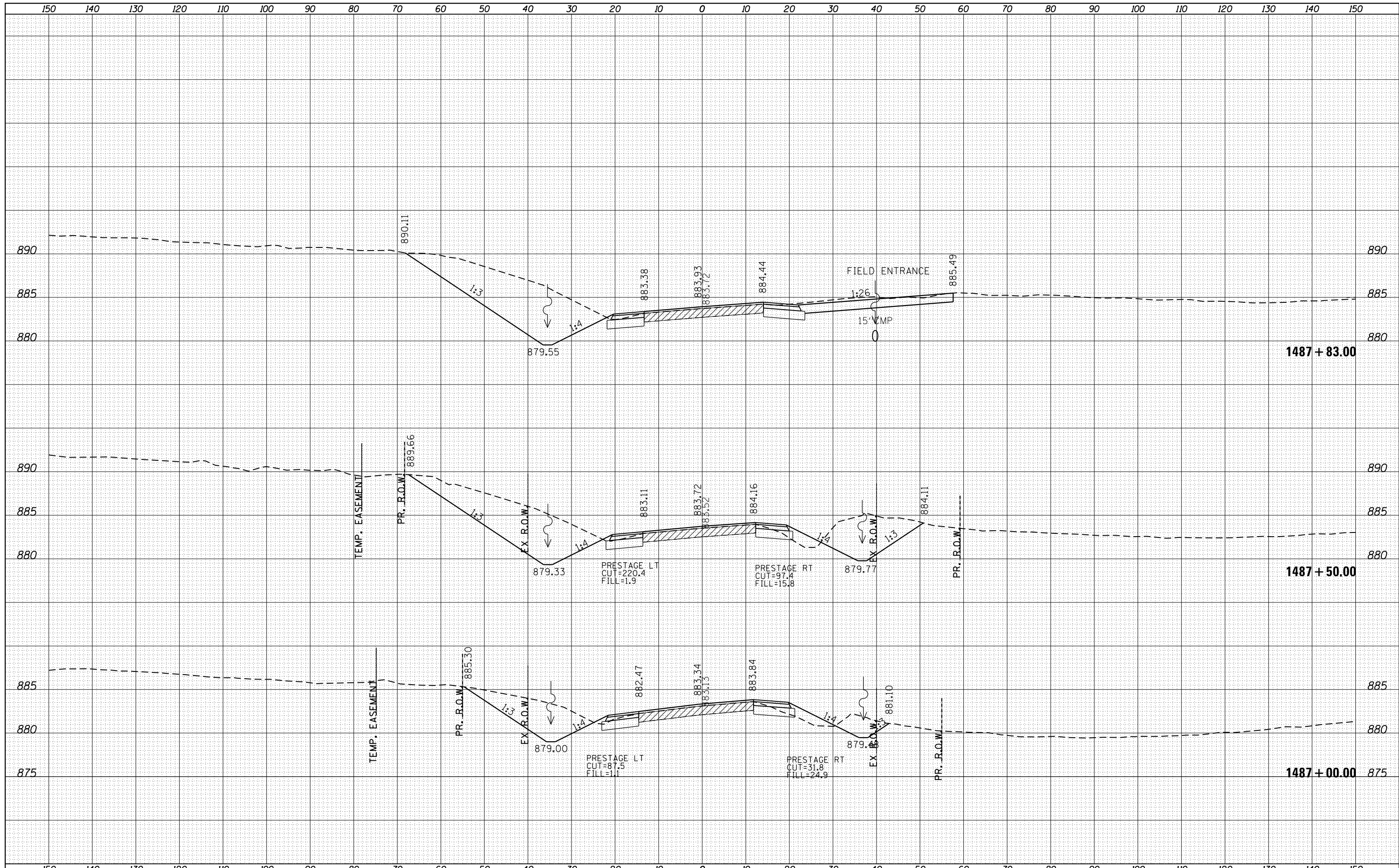
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. 1486+00.00 TO STA. 1486+64.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	56
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

BY	DATE

BY	DATE



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 PLOT DATE = Tue Jan 22 11:16:30 2013

DESIGNED - _____
 DRAWN - _____
 CHECKED - _____
 DATE - _____

REVISED - _____
 REVISED - _____
 REVISED - _____
 REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

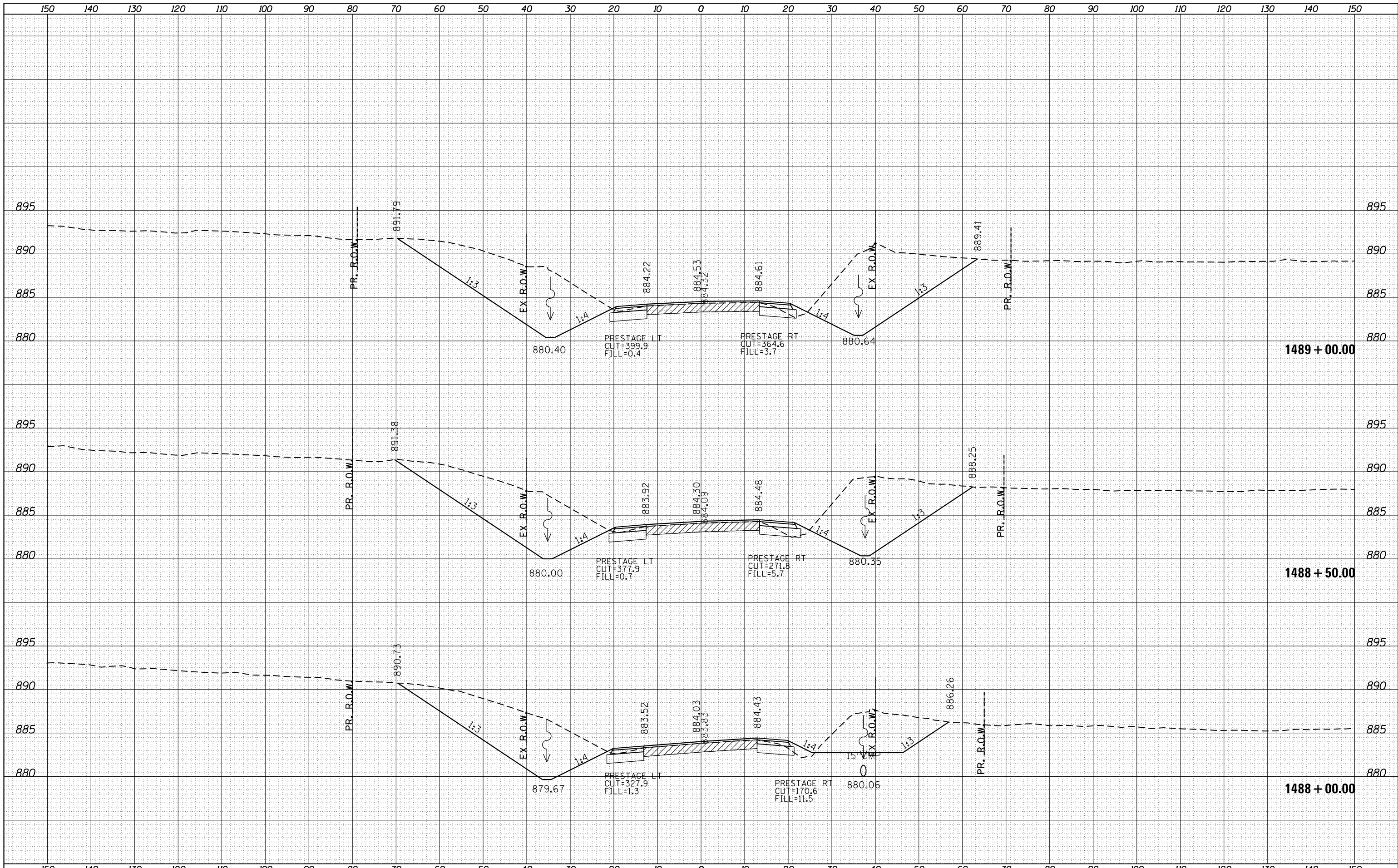
CROSS SECTION

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	57
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	

BY	DATE

BY	DATE



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	DATE -	REVISED -

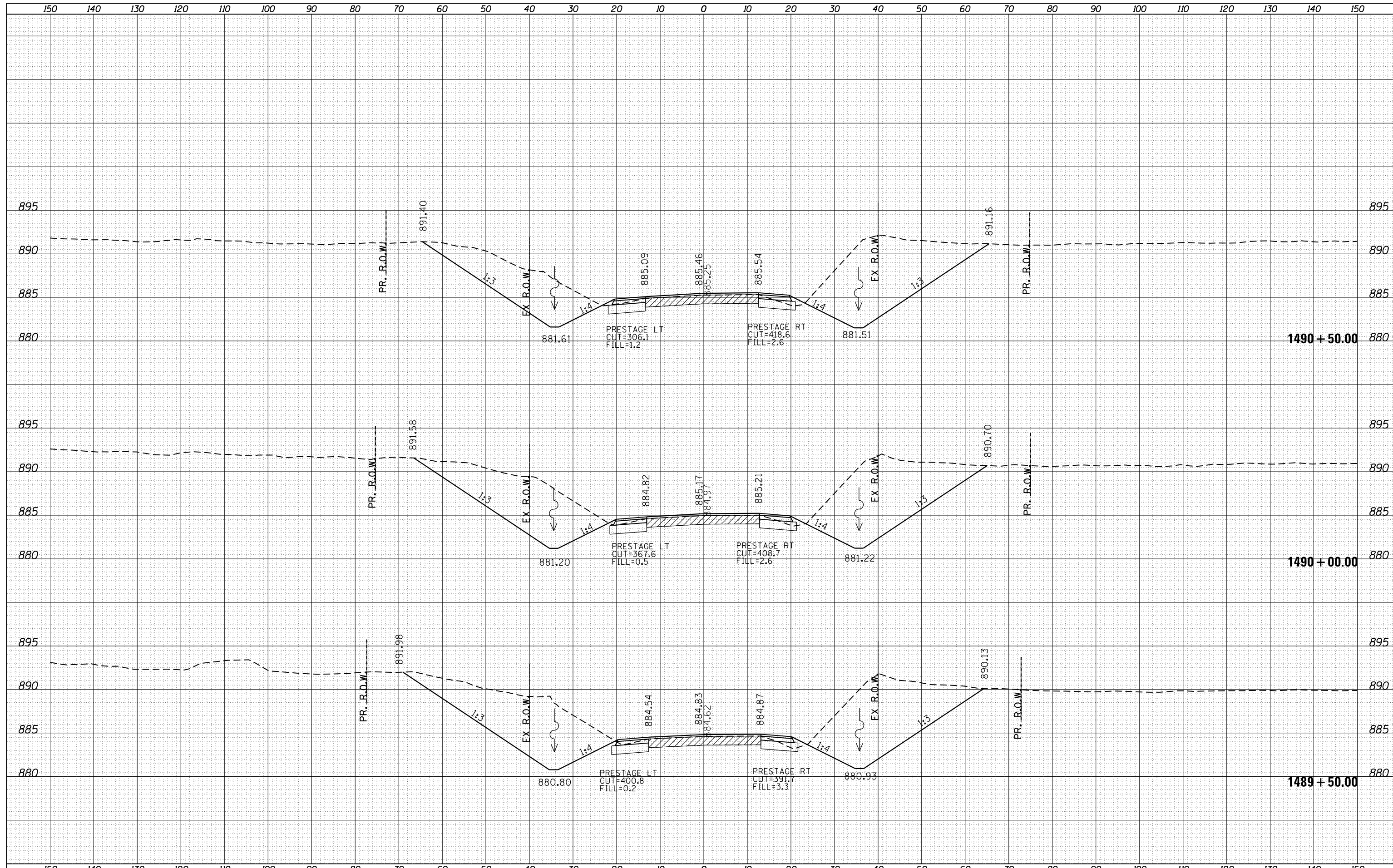
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 1488+00.00 TO STA. 1489+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	58
				CONTRACT NO. 64F75

ILLINOIS FED. AID PROJECT



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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

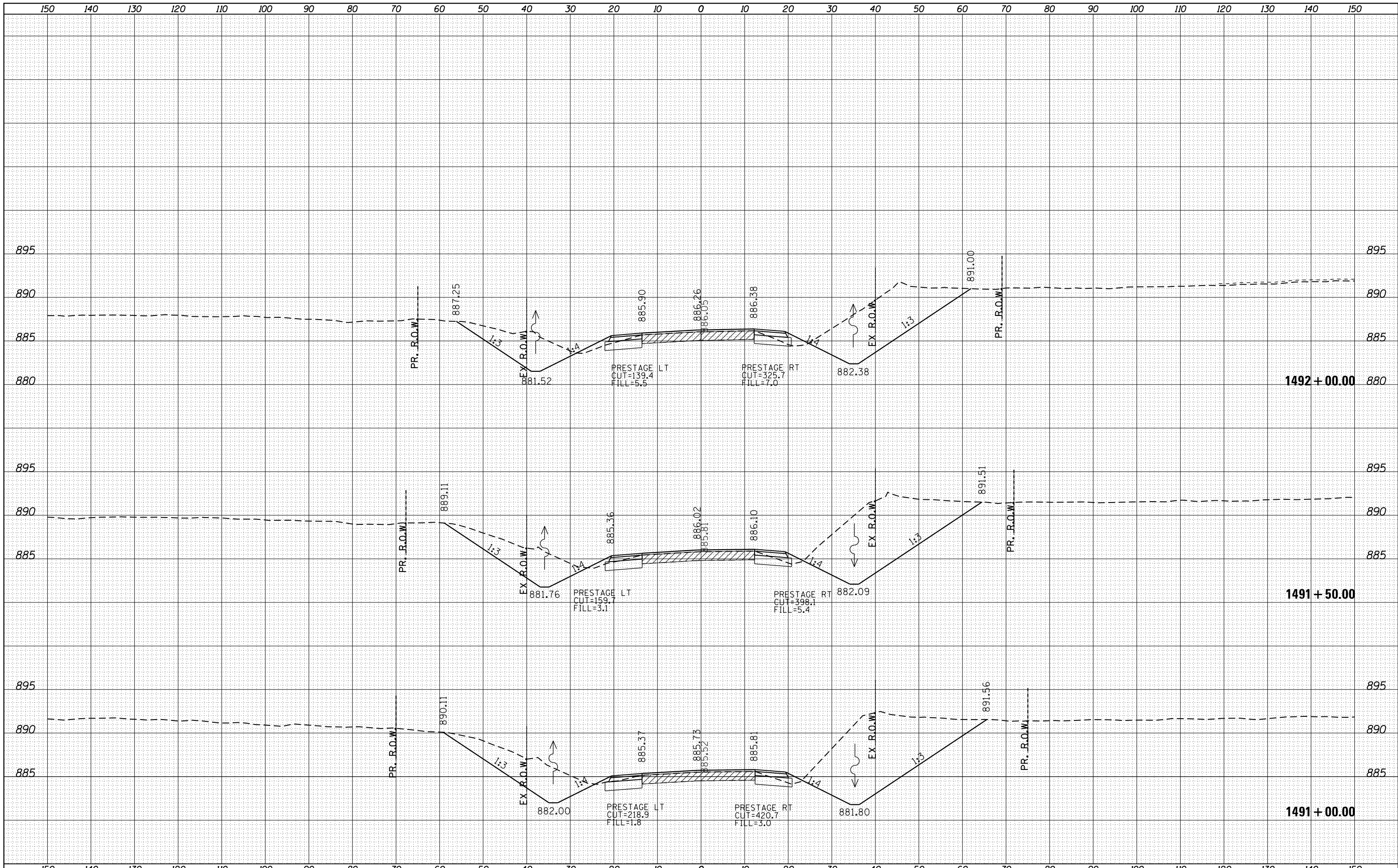
CROSS SECTION

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 1489+50.00 TO STA. 1490+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	59
CONTRACT NO. 64F75				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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

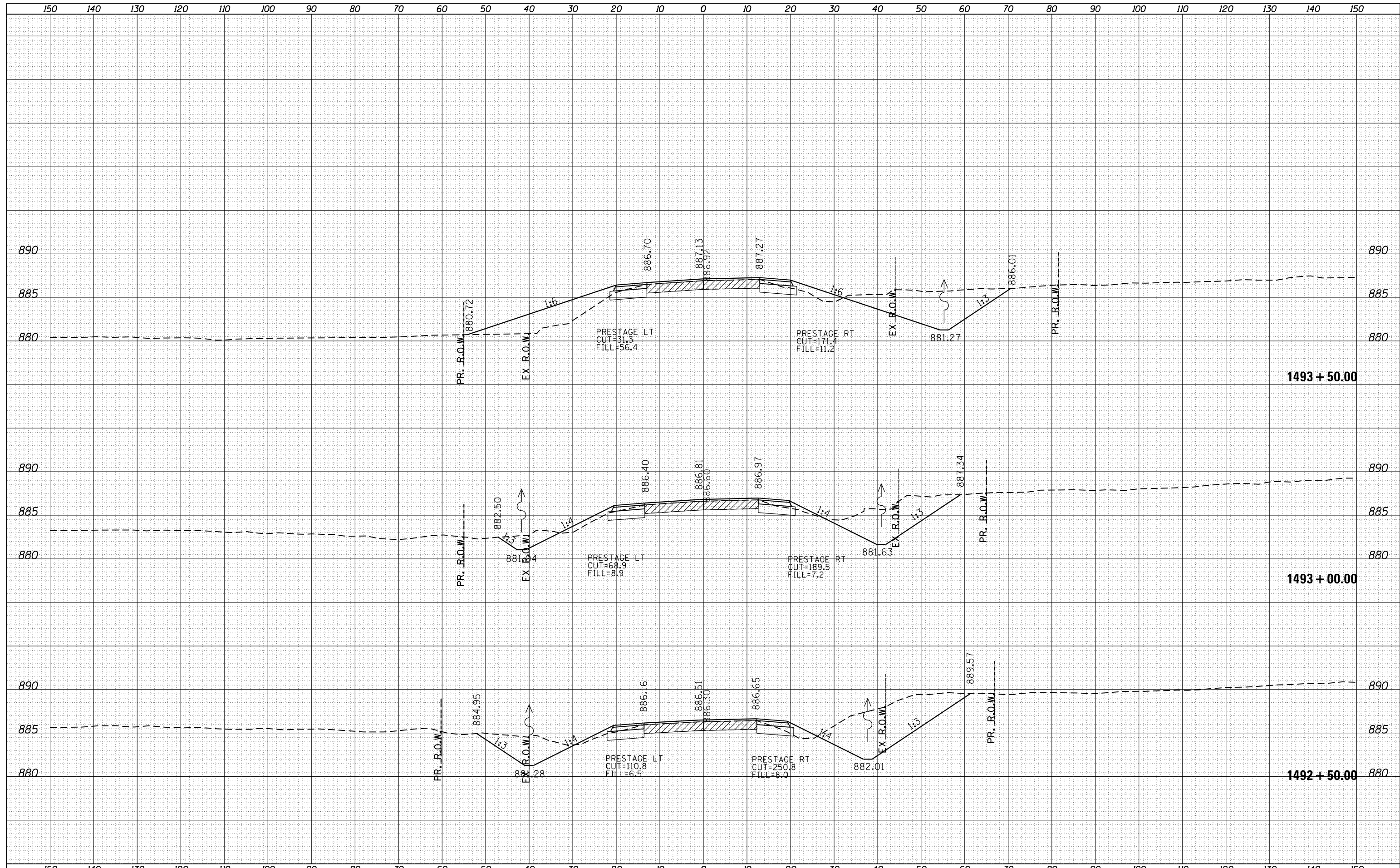
CROSS SECTION

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 1491+00.00 TO STA. 1492+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	60
			CONTRACT NO. 64F75	
ILLINOIS FED. AID PROJECT				

BY	DATE

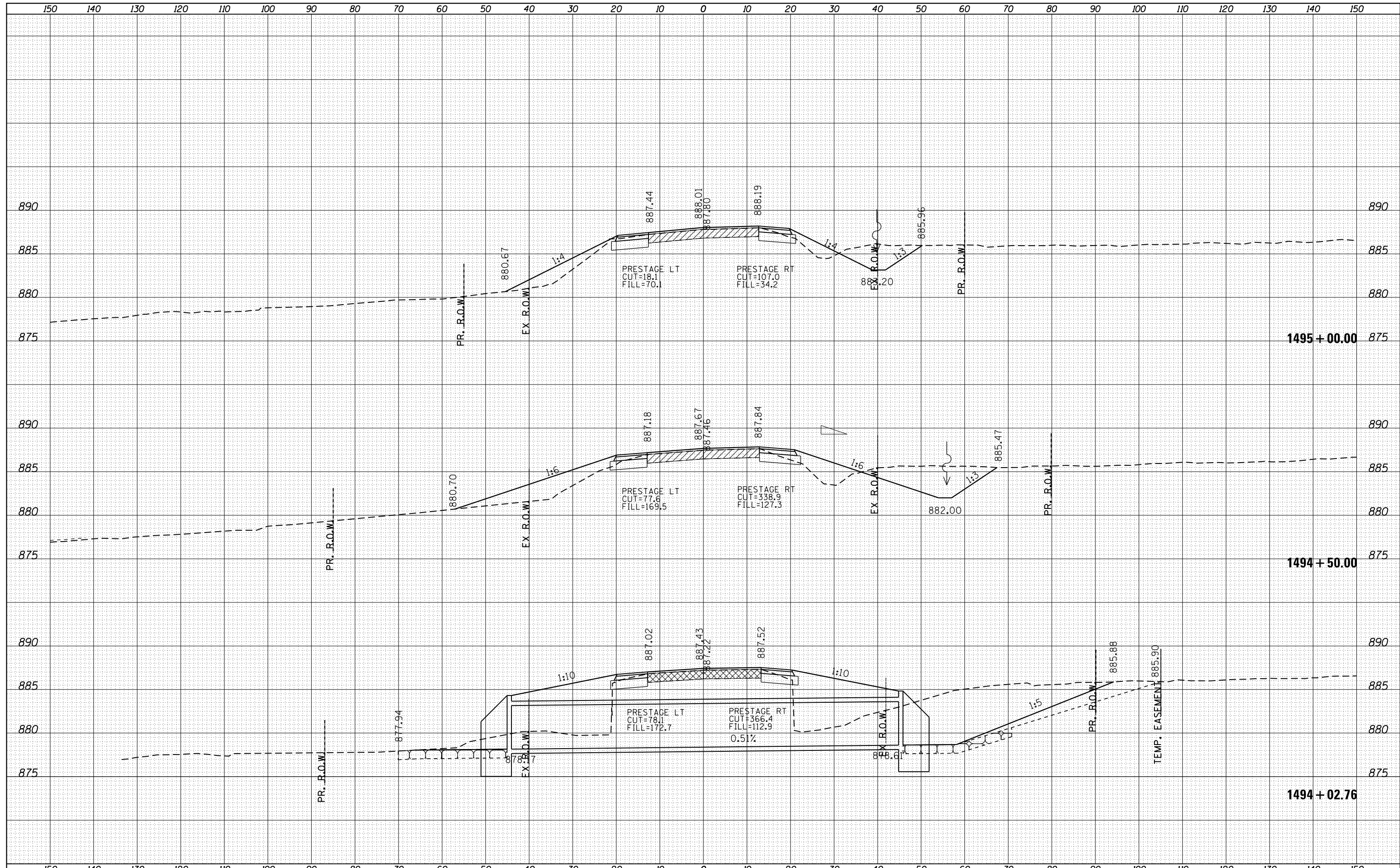
BY	DATE



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED -	<p style="text-align: center;">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p style="text-align: center;">CROSS SECTION</p> <p>SCALE: _____ SHEET ____ OF ____ SHEETS STA. 1492+50.00 TO STA. 1493+50.00</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

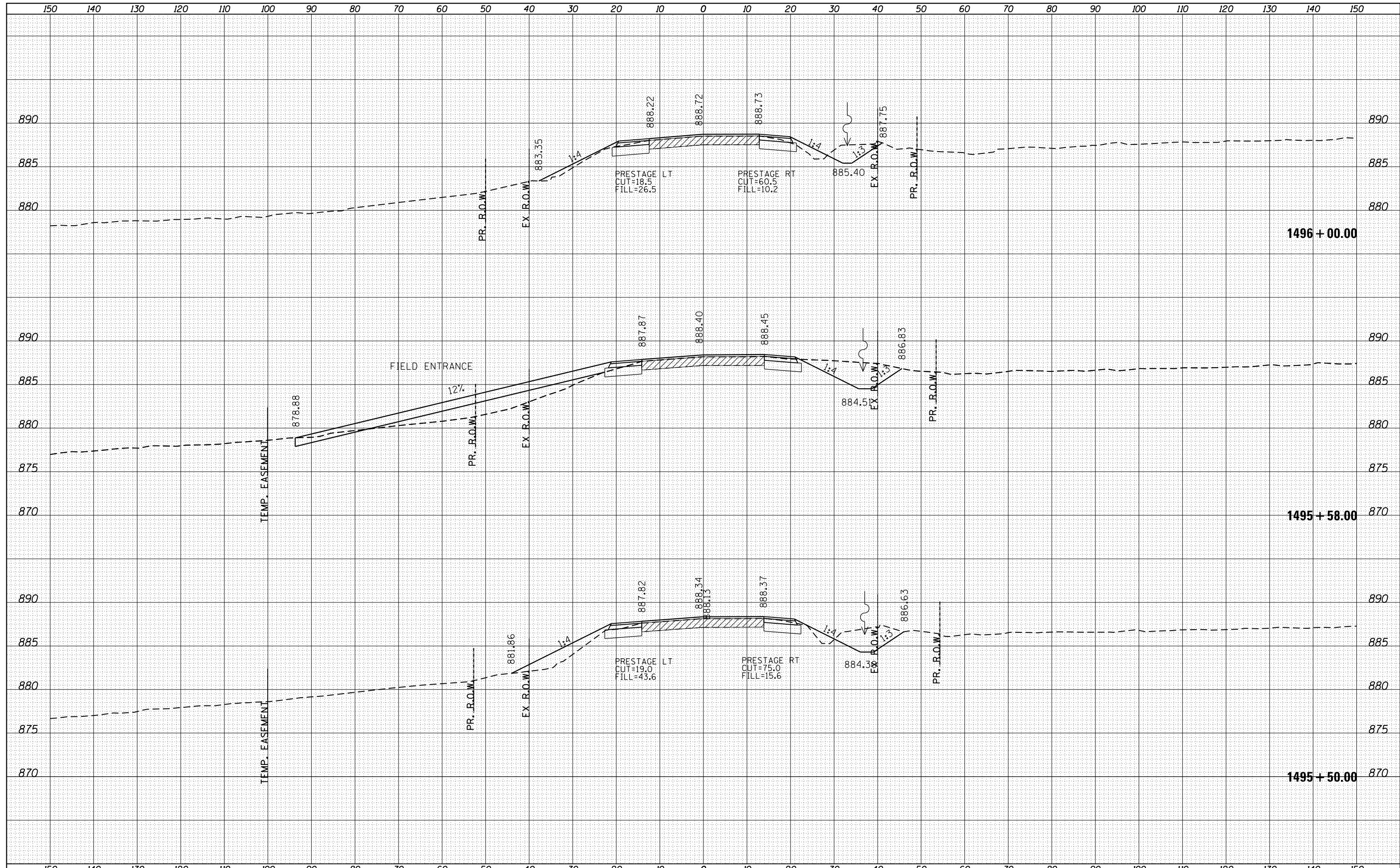
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BY	
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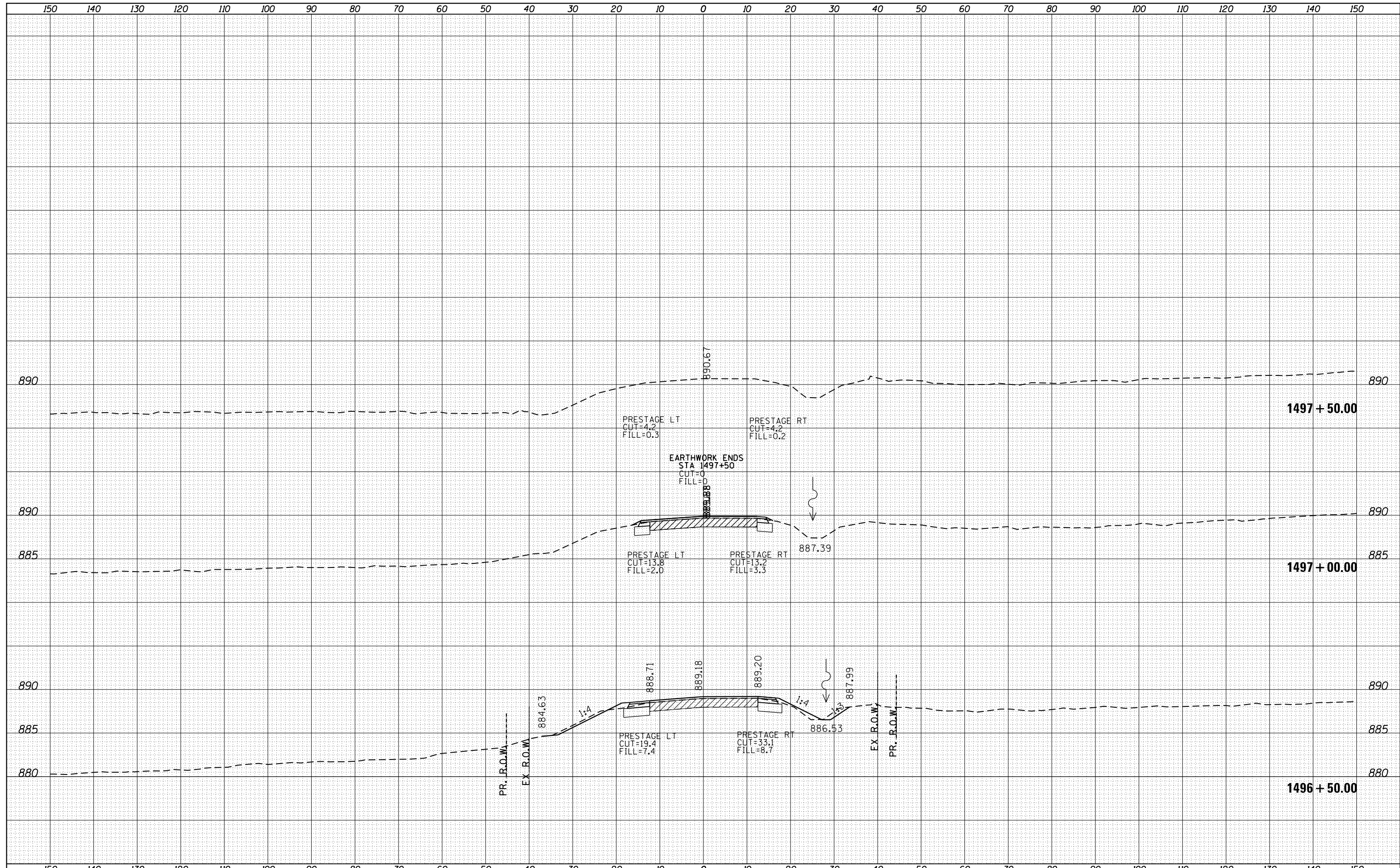
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BY	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



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PLOT DATE = Tue Jan 22 11:18:40 2013	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTION

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 1496+50.00 TO STA. 1497+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
570	101T	JO DAVIESS	64	64
CONTRACT NO. 64F75			ILLINOIS FED. AID PROJECT	