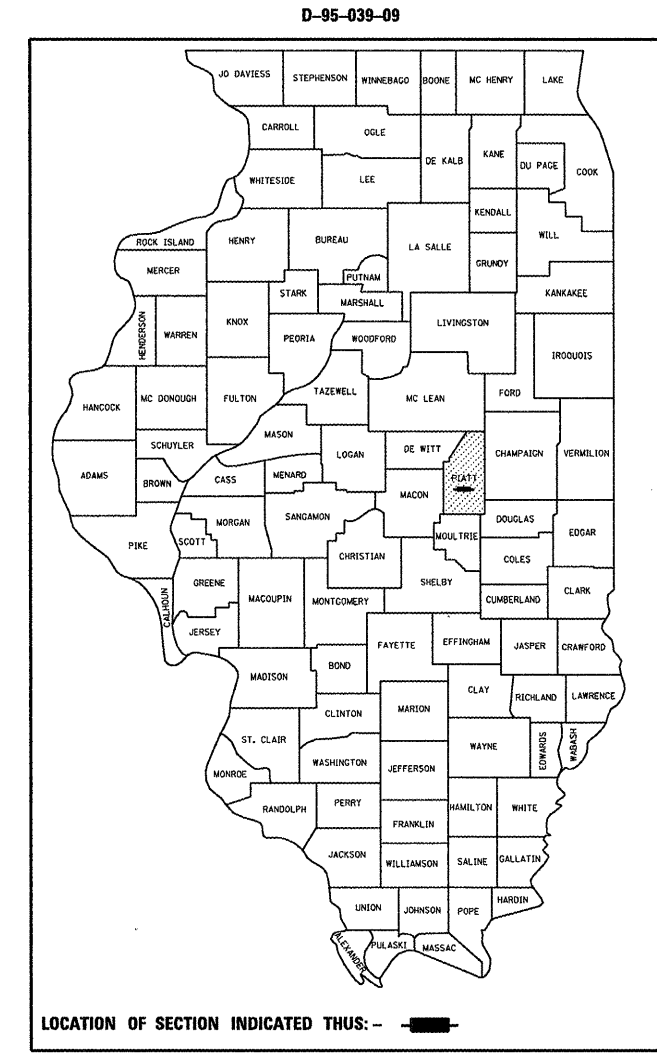


**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	1
		ILLINOIS	CONTRACT NO. 70800	

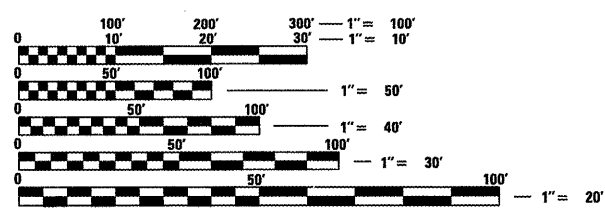
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

CURRENT ADT: (2010)	
LEG "A" (IL 105 WEST OF IL 32)	= 2,100
LEG "B" (IL 105/IL 32)	= 1,800
LEG "C" (IL 105 EAST OF CERRO GORDO)	= 900
LEG "D" (IL 105 SOUTH OF BEMENT)	= 1,500



- CULVERT REPLACEMENTS:**
- ① 2' X 2' X 44' PCBC
  - ② 8' X 2' X 44' PCBC PROP. S. N. 074-8062
  - ③ 8' X 3' X 42' PCBC PROP. S. N. 074-8065
  - ④ 12' X 4' X 73' PCBC EXIST. S. N. 074-8029; PROP. S. N. 074-8315

C-95-039-09  
**IL 32 (S) TO SCL OF BEMENT**  
**CULVERT REPLACEMENTS**

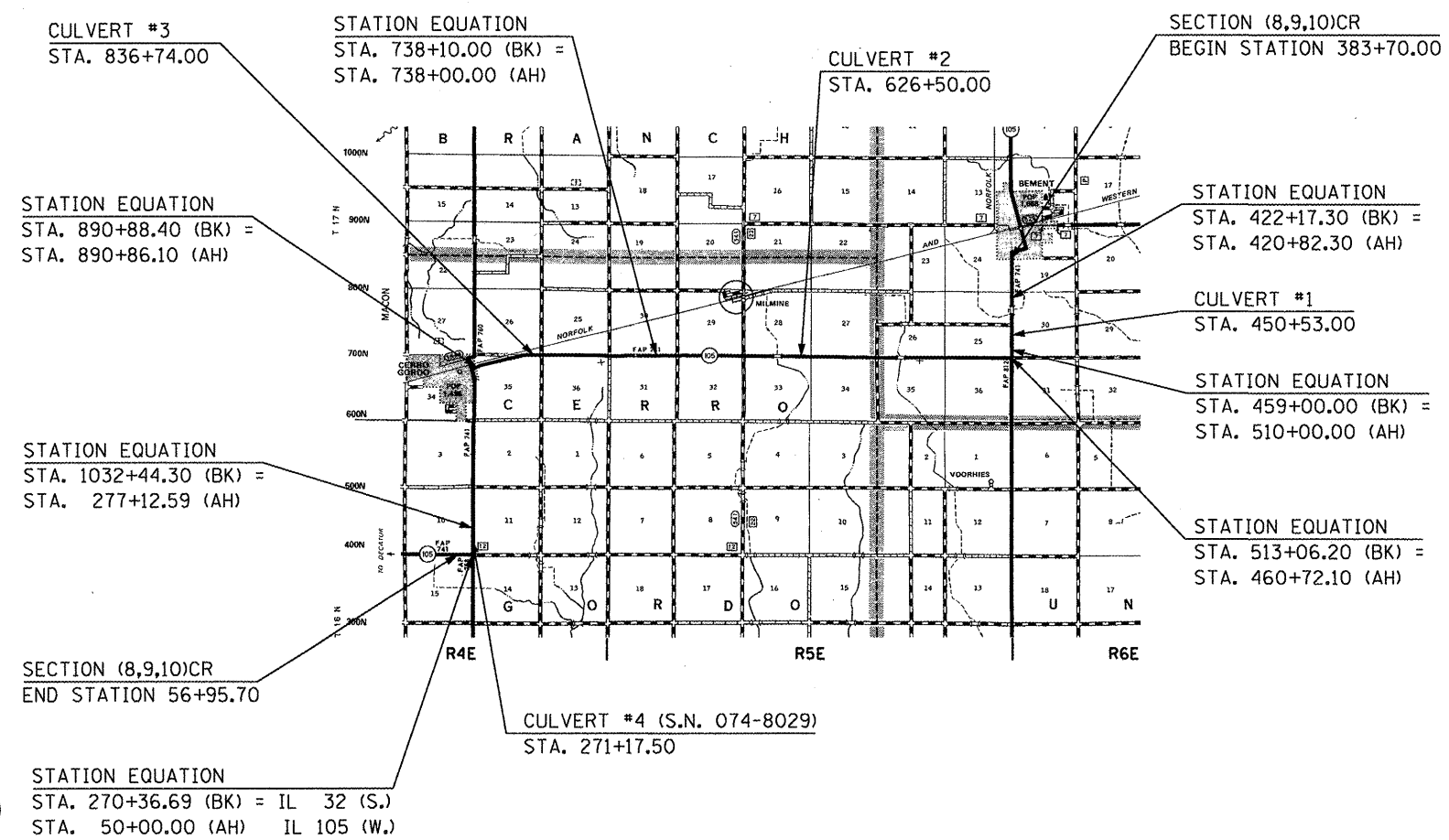


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER : KEVIN TRAPP (217-465-4181)  
 PROJECT DESIGNER : DANA HENNESS

CONTRACT NO. 70800



GROSS & NET LENGTH OF PROJECT = 79.88 FT. = 0.015 MILE

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 1010 2010

*Joseph E. Casper (KAC)*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*Scott E. Stitt P.E.*  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS**

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## HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420701-02	PAVEMENT FABRIC
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
667101-01	PERMANENT SURVEY MARKERS
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS

FILE NAME = c:\pwwork\pwwork\hennessm\d0184799\05	USER NAME = hennessm 70800-sht-gennote.dgn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS / LIST OF HIGHWAY STANDARDS</b>	F.A.P. RTE. 741	SECTION (8,9,10)CR	COUNTY PIATT	TOTAL SHEETS 65	SHEET NO. 2
PLOT SCALE = 40,0000' / IN.		CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 70800 ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/19/2010		DATE -	REVISED -							

## GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C & OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N.-202 (SPECIAL)

GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-250C

SEEDING, CLASS 7 AND MULCH, METHOD 2 IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE CLASS 7 SEEDING AND MULCH WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-440B

THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-442B -- PATCHING SCHEDULES

THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-540

THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-667

THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038

AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

NO COMMITMENTS ON THIS PROJECT.

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PLOT SCALE = 40.0000' / IN.	PLOT DATE = 10/19/2010	DRAWN -	REVISIED -	CHECKED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

## SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAP 741 (IL 105)  
 PIATT COUNTY  
 STA. 383+70.00  
 TO STA. 56+95.70  
 RURAL 2-LANE  
 80% FEDERAL  
 20% STATE  
 0040

CONSTRUCTION TYPE CODE:

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	395.0
20400800	FURNISHED EXCAVATION	CU YD	71.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	250.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	900.0
* 25000200	SEEDING, CLASS 2	ACRE	0.8
* 25000350	SEEDING, CLASS 7	ACRE	0.8
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	75.0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	75.0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	75.0
* 25100115	MULCH, METHOD 2	ACRE	0.8
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	83.0
28000305	TEMPORARY DITCH CHECKS	FOOT	276.0
28000400	PERIMETER EROSION BARRIER	FOOT	2,044.0
28000500	INLET <sup>AND</sup> PIPE PROTECTION	EACH	3.0
28100201	STONE RIPRAP, CLASS A1	TON	253.0
28100207	STONE RIPRAP, CLASS A4	TON	67.0
28200200	FILTER FABRIC	SQ YD	101.0
44201341	CLASS C PATCHES, TYPE II, 9 INCH	SQ YD	30.0
44201345	CLASS C PATCHES, TYPE III, 9 INCH	SQ YD	97.0
44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	154.0
44213100	PAVEMENT FABRIC	SQ YD	250.0
44213204	TIE BARS 3/4"	EACH	48.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	272.0

\*SPECIALTY ITEM

FILE NAME : c:\pw_work\pwidot\hennessdm\08184799\05	USER NAME : hennessdm 08080-sh1-S00.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE. 741	SECTION (8,9,10)CR	COUNTY PIATT	TOTAL SHEETS 65	SHEET NO. 4
PLOT SCALE : 40.0000' / IN.		CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 70800			
PLOT DATE : 10/20/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



## SUMMARY OF QUANTITIES (CONT'D)

LOCATION OF WORK:

FAP 741(IL 105)  
PIATT COUNTY  
STA. 383+70.00  
TO STA. 56+95.70  
RURAL 2-LANE  
80% FEDERAL  
20% STATE  
0040

CONSTRUCTION TYPE CODE:

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1.0
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1.0
51500100	NAME PLATES	EACH	3.0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2.0
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2.0
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2.0
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	2.0
54020202	PRECAST CONCRETE BOX CULVERTS 2' X 2' (M273)	FOOT	44.0
54020802	PRECAST CONCRETE BOX CULVERTS 8' X 2' (M273)	FOOT	41.0
54020803	PRECAST CONCRETE BOX CULVERTS 8' X 3' (M273)	FOOT	39.0
54021204	PRECAST CONCRETE BOX CULVERTS 12' X 4' (M273)	FOOT	70.0
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1.0
61100605	MISCELLANEOUS CONCRETE	CU YD	0.4
61140600	STORM SEWERS(SPECIAL) 18"	FOOT	92.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	2.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	24.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	261.0
<input type="checkbox"/> Z0010555	DITCH CLEANING	FOOT	400.0
Z0030900	INSPECTION WELLS	EACH	2.0

\*SPECIALTY ITEM  
 NON-PARTICIPATING  
100% STATE

FILE NAME :	USER NAME : hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 10/20/2010	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.				

## SUMMARY OF QUANTITIES (CONT'D)

LOCATION OF WORK:

FAP 741 (IL 105)  
 PIATT COUNTY  
 STA. 383+70.00  
 TO STA. 56+95.70  
 RURAL 2-LANE  
 80% FEDERAL  
 20% STATE  
 0040

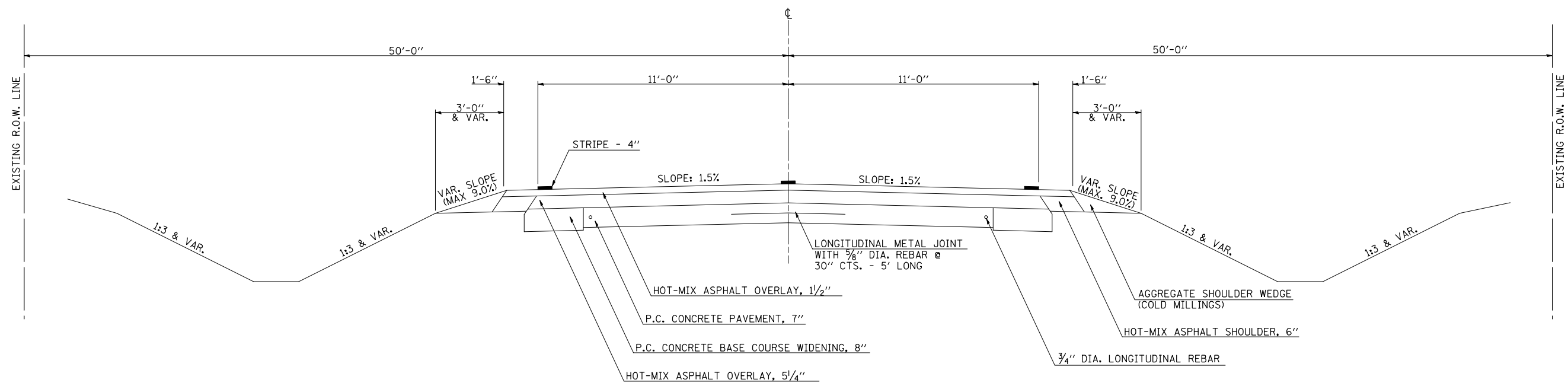
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Z0038800	PERMANENT BENCH MARKS, TYPE I	EACH	3.0
* SPECIALTY ITEMS			

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		CONTRACT NO. 70800							
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		PLOT DATE = 10/20/2010	DATE -									

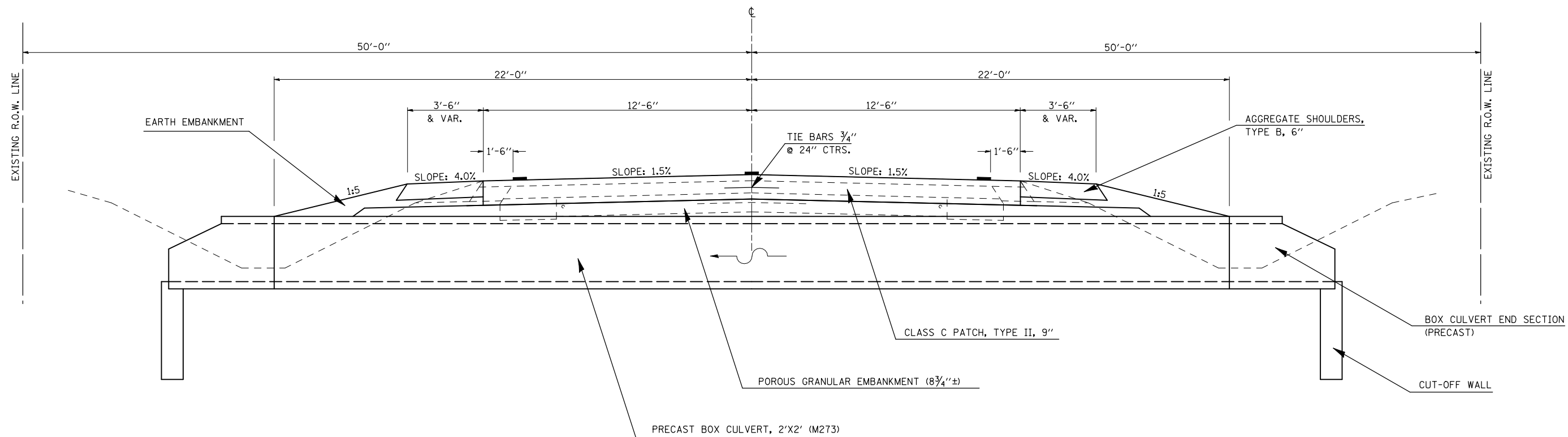
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## PROPOSED TYPICAL SECTION

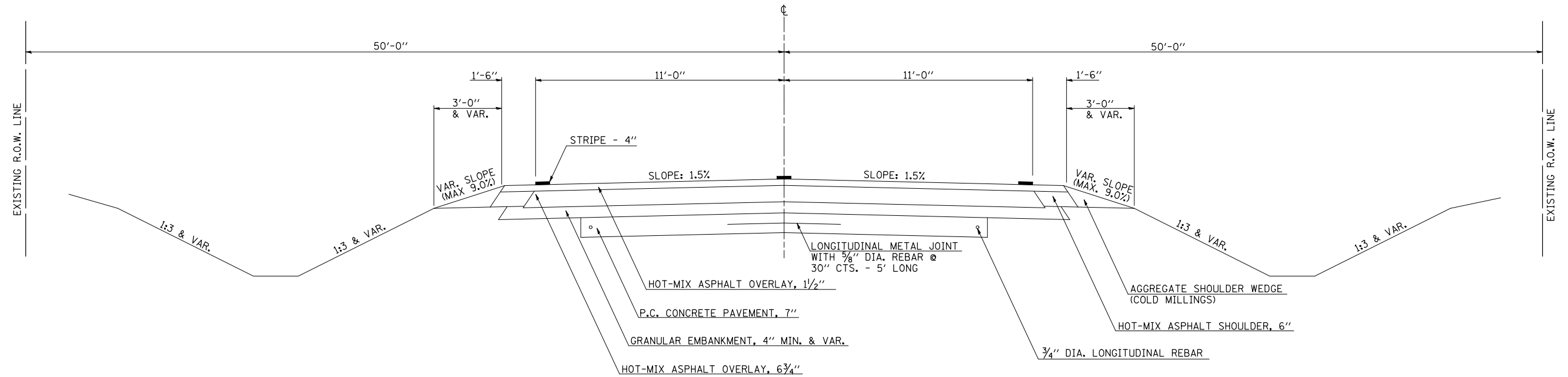
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450+47.67 450+58.33



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PLOT DATE = 10/19/2010		DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.				

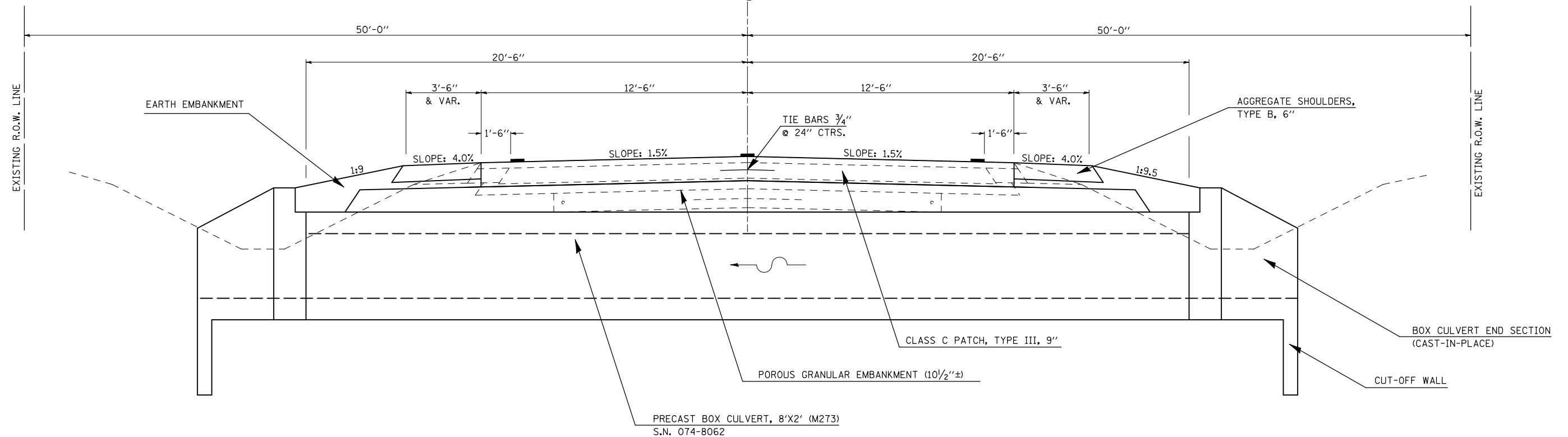
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## PROPOSED TYPICAL SECTION

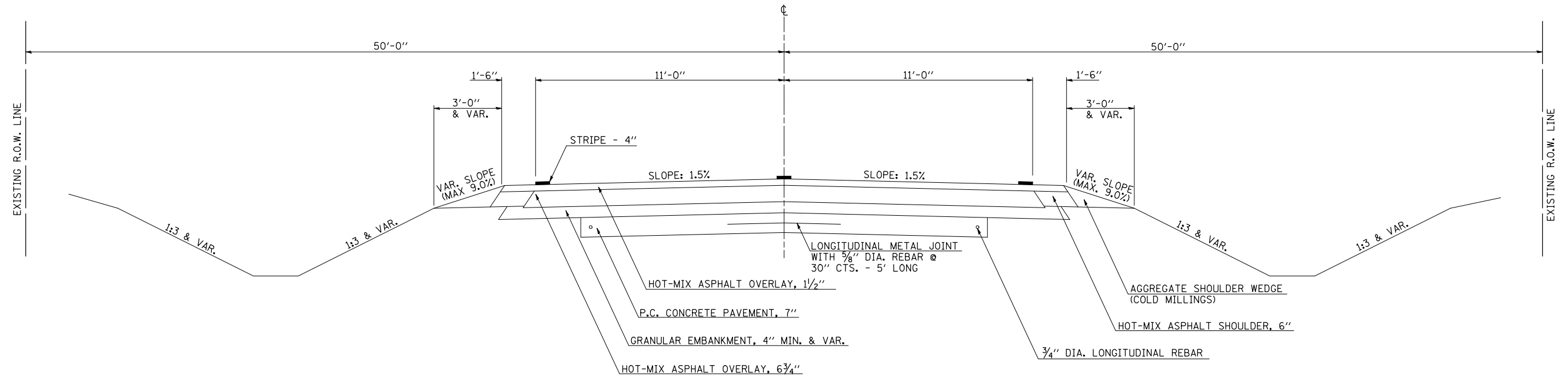
STATION TO STATION  
626+41.33 626+58.67



FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING &amp; PROPOSED TYPICAL SECTION S.N. 074-8062 (CULVERT #2)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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					ILLINOIS FED. AID PROJECT					
					CONTRACT NO. 70800					

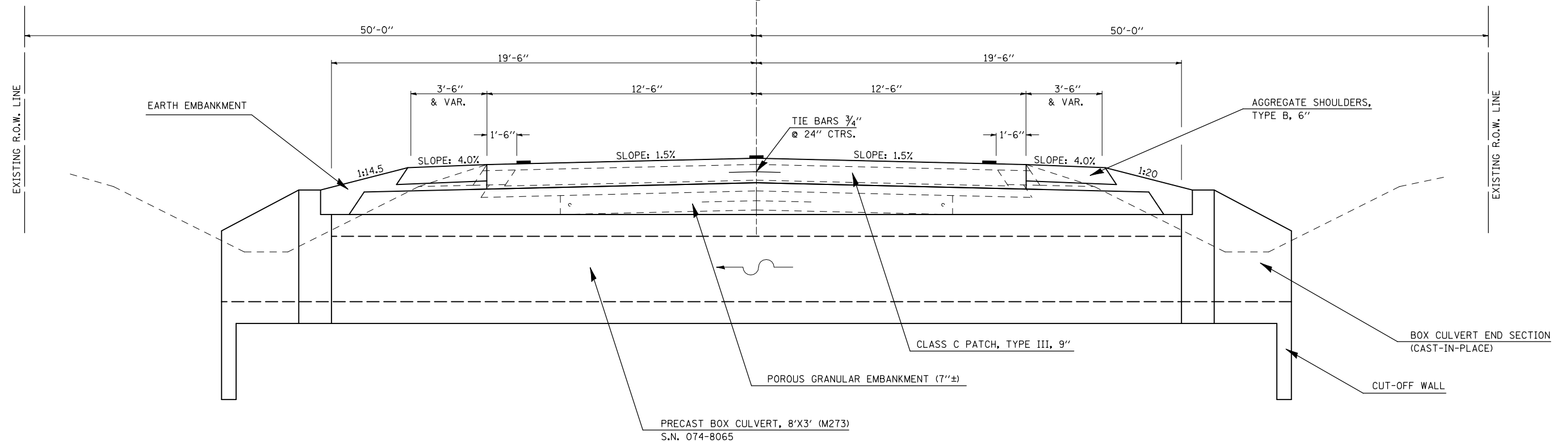
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STATION TO STATION  
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## PROPOSED TYPICAL SECTION

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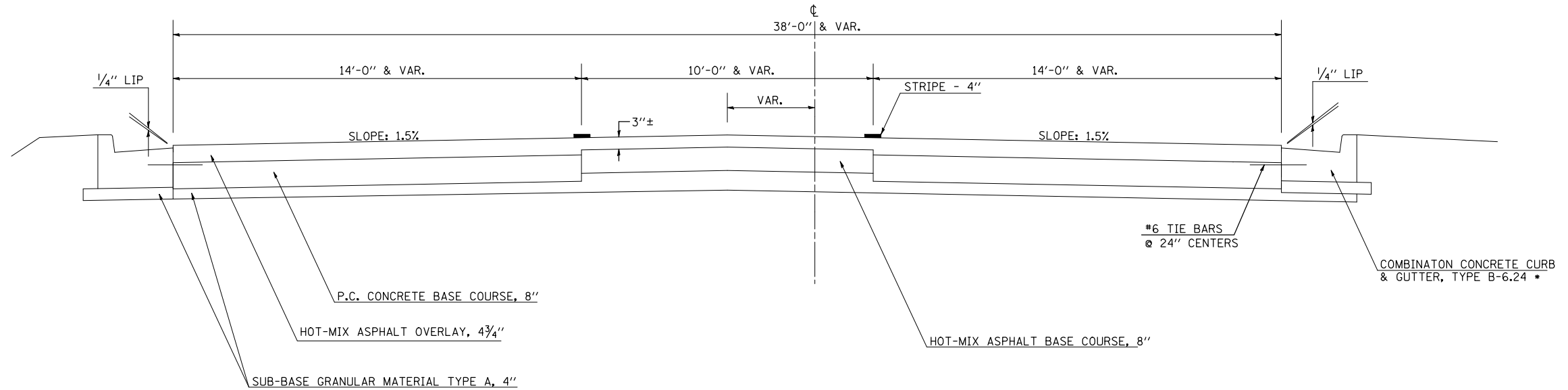


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PLOT DATE = 10/19/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

## EXISTING TYPICAL SECTION

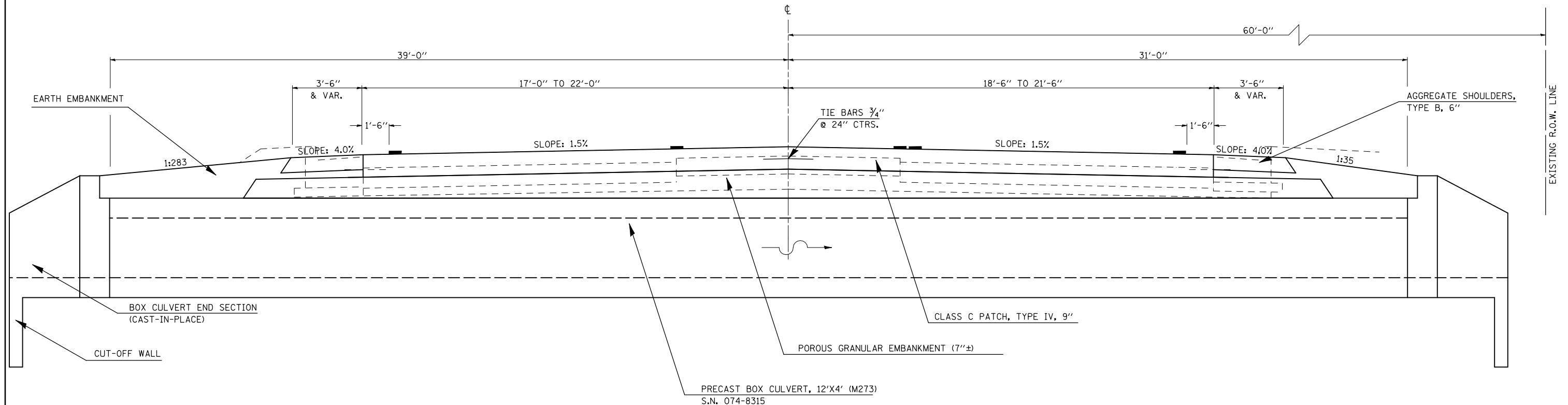
STATION      TO      STATION  
268+34.00 ( IL 32)      277+12.59 ( IL 105)



\* LT. STATION 269+38.90 TO LT. STATION 271+07.80  
RT. STATION 269+80.00 TO RT. STATION 271+17.80

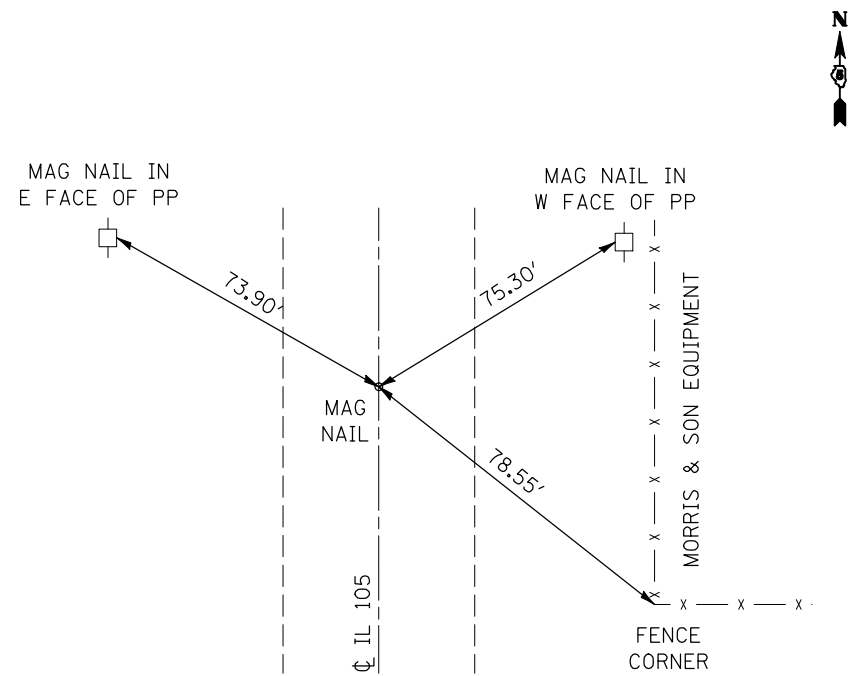
## PROPOSED TYPICAL SECTION

STATION      TO      STATION  
271+04.73      271+39.27

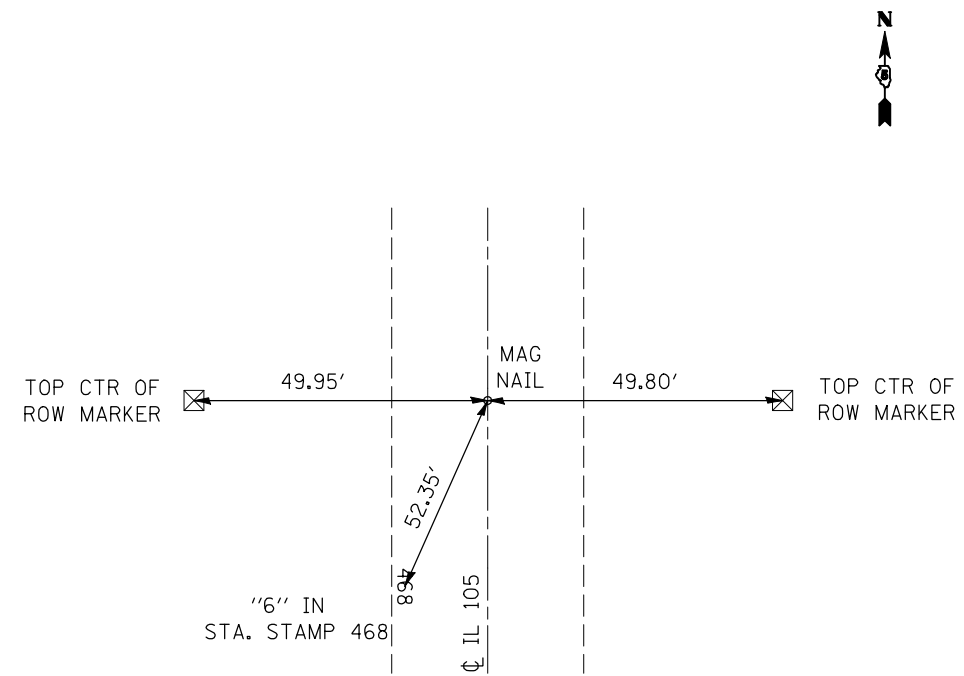


FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING &amp; PROPOSED TYPICAL SECTION S.N. 074-8315 (CULVERT #4)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
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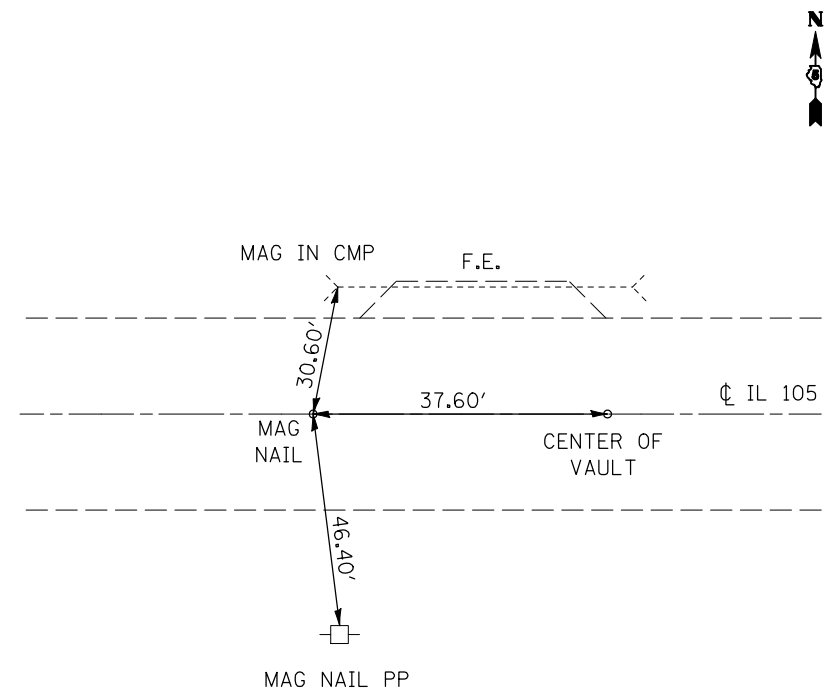
**P.O.T. #1**  
**STA. 443 + 78.38**



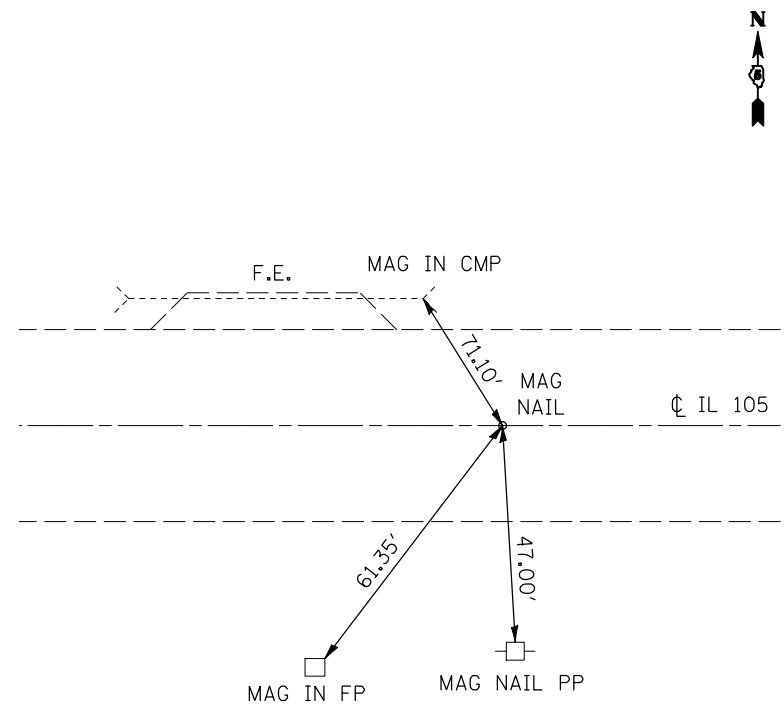
**P.O.T. #3**  
**STA. 457 + 44.29**



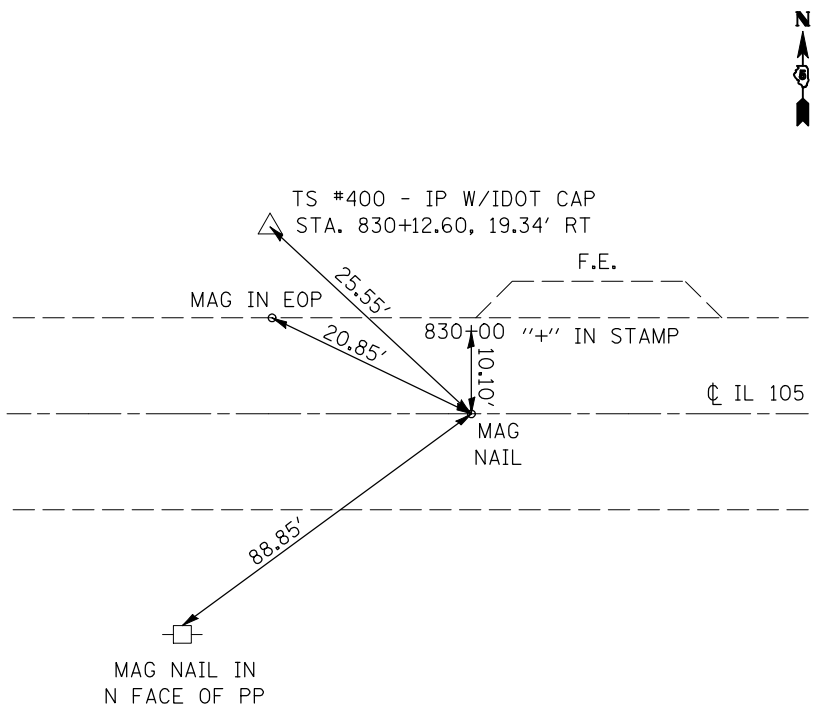
**P.O.T. #4**  
**STA. 620 + 49.06**



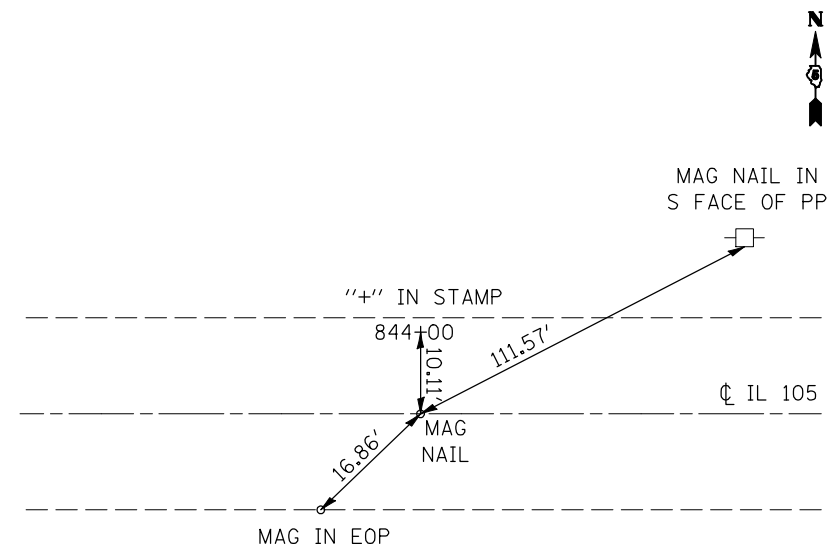
**P.O.T. #6**  
**STA. 632 + 93.39**



**P.O.T. #1**  
**STA. 829 + 95.96**



**P.O.T. #2**  
**STA. 843 + 96.17**



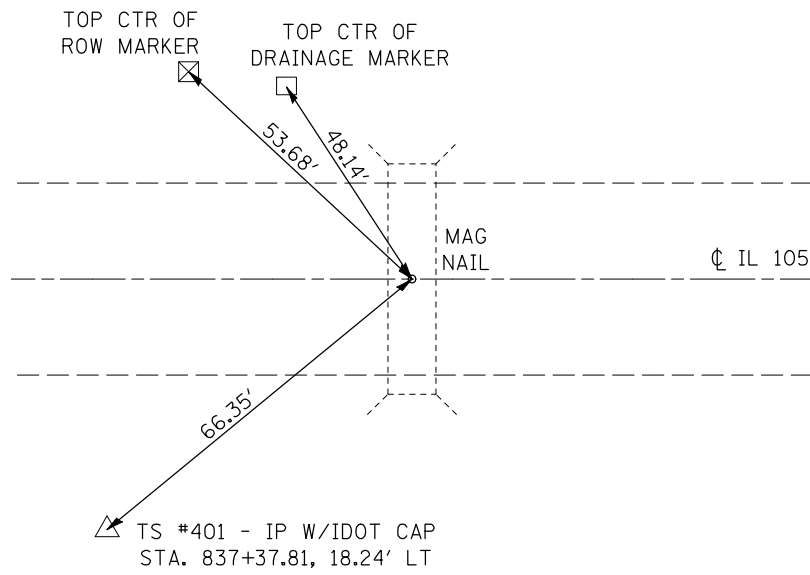
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2010	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

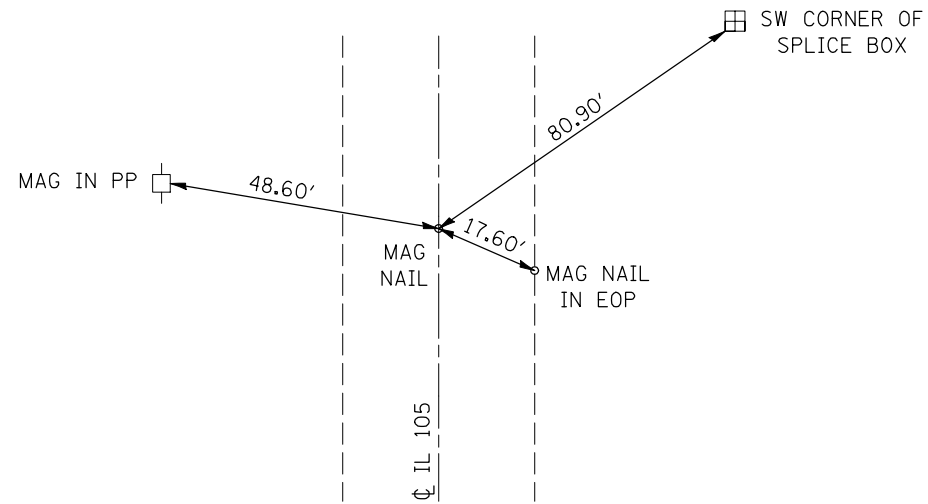
<b>TIE POINTS</b>			
SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Platt	65	11
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

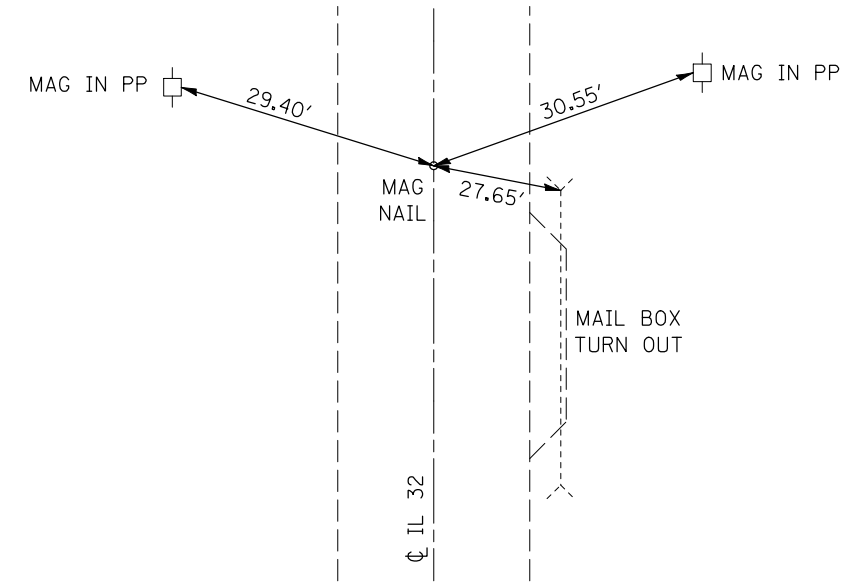
**P.O.T. #7**  
**STA. 836 + 74.00**



**P.O.T. #7**  
**STA. 281 + 35.34**



**P.O.T. #11**  
**STA. 261 + 08.36**



FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
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	PLOT DATE = 10/19/2010	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TIE POINTS</b>	
SCALE:	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Platt	65	12
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



# SCHEDULE OF QUANTITIES

**EARTHWORK SCHEDULE**

STATION	(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YDS)		(20400800) FURNISHED EXCAVATION (CU YDS)		(Z0010555) DITCH CLEANING (FEET)	
	LI	RI	LI	RI	LI	RI
<b>CULVERT #1</b>						
450+00.00	1.9	2.5	2.4	2.2	0.0	0.0
450+50.00	0.2	0.2	0.1	0.1	0.0	0.0
450+53.00	4.0	3.6	0.3	0.2	0.0	0.0
451+00.00	3.4	3.5	0.3	0.2	0.0	0.0
451+50.00						
<b>SUBTOTAL =</b>	<b>9.5</b>	<b>9.8</b>	<b>3.1</b>	<b>2.7</b>	<b>0.0</b>	<b>0.0</b>
<b>CULVERT #2</b>						
625+50.00	3.7	2.9	1.3	0.8	0.0	0.0
626+00.00	6.6	3.5	1.3	0.8	0.0	0.0
626+50.00	12.4	6.0	0.1	0.2	0.0	0.0
626+78.50	0.0	9.0	0.0	0.2	0.0	0.0
627+00.00	0.0	7.4	0.0	0.1	0.0	0.0
627+33.50						
<b>SUBTOTAL =</b>	<b>22.7</b>	<b>28.8</b>	<b>2.7</b>	<b>2.1</b>	<b>0.0</b>	<b>0.0</b>
<b>CULVERT #3</b>						
835+50.00	0.0	0.0	0.0	0.0	50.0	50.0
836+00.00	7.5	10.5	0.4	0.2	0.0	0.0
836+50.00	4.3	4.7	0.2	0.1	0.0	0.0
836+74.00	4.8	1.7	0.3	5.4	0.0	0.0
837+00.00	7.2	6.0	0.6	10.5	0.0	0.0
837+50.00	0.0	3.8	0.0	0.0	0.0	0.0
838+00.00						
<b>SUBTOTAL =</b>	<b>23.8</b>	<b>26.7</b>	<b>1.5</b>	<b>16.2</b>	<b>50.0</b>	<b>50.0</b>

STATION	(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YDS)		(20400800) FURNISHED EXCAVATION (CU YDS)		(Z0010555) DITCH CLEANING (FEET)	
	LI	RI	LI	RI	LI	RI
<b>CULVERT #4</b>						
271+00.00	2.8	2.0	0.0	0.0	0.0	0.0
271+22.00	12.0	12.6	0.1	0.1	0.0	0.0
271+50.00	18.4	26.5	0.2	0.2	0.0	0.0
272+00.00	0.0	10.6	0.0	0.0	50.0	0.0
272+50.00	0.0	0.0	0.0	0.0	0.0	50.0
273+00.00						
<b>SUBTOTAL =</b>	<b>33.2</b>	<b>51.7</b>	<b>0.3</b>	<b>0.3</b>	<b>50.0</b>	<b>50.0</b>
(CH 12)						
45+00.00	N/A	0.0	N/A	0.0	N/A	50.0
45+50.00	N/A	0.0	N/A	0.0	N/A	50.0
46+00.00	N/A	0.0	N/A	0.0	N/A	50.0
46+50.00	N/A	0.0	N/A	0.0	N/A	50.0
47+00.00	N/A	14.1	N/A	5.4	N/A	0.0
48+00.00	N/A	11.2	N/A	6.3	N/A	0.0
48+50.00	N/A	11.6	N/A	14.5	N/A	0.0
49+00.00	N/A	7.1	N/A	10.9	N/A	0.0
49+50.00						
<b>SUBTOTAL =</b>	<b>N/A</b>	<b>44.0</b>	<b>N/A</b>	<b>37.1</b>	<b>N/A</b>	<b>200.0</b>

STATION	(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YDS)		(20400800) FURNISHED EXCAVATION (CU YDS)		(Z0010555) DITCH CLEANING (FEET)	
	LI	RI	LI	RI	LI	RI
(IL105 WEST)						
50+50.00	N/A	29.7	N/A	0.0	N/A	0.0
51+00.00	N/A	51.3	N/A	0.0	N/A	0.0
51+50.00	N/A	32.7	N/A	0.0	N/A	0.0
52+00.00	N/A	17.1	N/A	0.0	N/A	0.0
52+50.00	N/A	7.1	N/A	0.0	N/A	0.0
53+00.00	N/A	1.1	N/A	2.3	N/A	0.0
53+50.00	N/A	3.9	N/A	2.4	N/A	0.0
54+00.00	N/A	1.1	N/A	0.0	N/A	0.0
54+14.00						
<b>SUBTOTAL =</b>	<b>N/A</b>	<b>144.1</b>	<b>N/A</b>	<b>4.7</b>	<b>N/A</b>	<b>0.0</b>
<b>GRAND TOTAL =</b>		<b>395.0</b>		<b>71.0</b>		<b>400.0</b>

**EXPLORATION TRENCH, 52" DEPTH (21301052)**

STATION	TO STATION	LENGTH (FT)
<b>(CULVERT #1)</b>		
450+00.00 (LT)	451+00.00 (LT)	100.0
450+00.00 (RT)	451+00.00 (RT)	100.0
<b>(CULVERT #2)</b>		
626+00.00 (LT)	627+00.00 (LT)	100.0
626+00.00 (RT)	627+00.00 (RT)	100.0
<b>(CULVERT #3)</b>		
836+25.00 (LT)	837+25.00 (LT)	100.0
836+25.00 (RT)	837+25.00 (RT)	100.0
<b>(CULVERT #4)</b>		
270+75.00 (LT)	272+25.00 (LT)	150.0
270+75.00 (RT)	272+25.00 (RT)	150.0

**TOTAL = 900.0**

## SCHEDULE OF QUANTITIES (CONT'D)

### CULVERT SCHEDULE

STATION	(20700220) POROUS GRANULAR EMBANKMENT (CU YDS)	(28100201) STONE RIPRAP, CLASS A1 (TONS)	(28100207) STONE RIPRAP, CLASS A4 (TONS)	(28200200) FILTER FABRIC (SQ YDS)	(54001001) BC END SECTIONS, CULVERT NO. 1 (EACH)	(54001002) BC END SECTIONS, CULVERT NO. 2 (EACH)	(54001003) BC END SECTIONS, CULVERT NO. 3 (EACH)	(54001004) BC END SECTIONS, CULVERT NO. 4 (EACH)	(54020202) PCBC 2'x2' (M273) (FEET)	(54020802) PCBC 8'x2' (M273) (FEET)	(54020803) PCBC 8'x3' (M273) (FEET)	(54021204) PCBC 12'x4' (M273) (FEET)
450+53.00	25.1				2.0				44.0			
626+50.00	35.1	19.5				2.0				41.0		
836+74.00	36.1	21.0					2.0				39.0	
271+22.00	146.3	187.1						2.0				70.0
271+22.00 (DS)		25.1	66.7	100.3								
<b>TOTAL =</b>	<b>243.0</b>	<b>253.0</b>	<b>67.0</b>	<b>101.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>44.0</b>	<b>41.0</b>	<b>39.0</b>	<b>70.0</b>

### STORM SEWERS, SPECIAL 18" (61140600)

STATION	TO STATION	FEET
836+44.00 (LT)	836+83.00 (RT)	92.0
<b>TOTAL =</b>		<b>92.0</b>

### POROUS GRANULAR EMBANKMENT (20700220) (FOR STORM SEWERS, SPECIAL 18")

STATION	TO STATION	W (FT)	H (FT)	L (FT)	CU YDS
836+60.00 (LT)	836+77.00 (RT)	3.33	1.78	40.0	6.8
<b>TOTAL =</b>					<b>7.0</b>

### AGGREGATE SHOULDERS, TYPE B, 6" (48101500)

STATION	TO STATION	LENGTH (FT)	WIDTH (FT)	SQ YDS
<b>(CULVERT #1)</b>				
450+03.00 LT	451+03.00 LT	100.0	3.5	38.9
450+03.00 RT	451+03.00 RT	100.0	3.5	38.9
<b>(CULVERT #2)</b>				
626+00.00 LT	626+81.00 LT	81.0	3.5	31.5
626+00.00 RT	627+00.00 RT	100.0	3.5	38.9
<b>(CULVERT #3)</b>				
836+24.00 LT	837+24.00 LT	100.0	3.5	38.9
836+24.00 RT	837+24.00 RT	100.0	3.5	38.9
<b>(CULVERT #4)</b>				
271+13.00 LT	271+72.00 LT	59.0	3.5	22.9
271+13.00 RT	271+72.00 RT	59.0	3.5	22.9
<b>TOTAL =</b>				<b>272.0</b>

### MISCELLANEOUS CONCRETE (61100605)

(CONCRETE COLLAR FOR STORM SEWERS, SPECIAL 18")

STATION	W (FT)	H (FT)	L (FT)	CU YDS
836+44.00 (LT)	2.83	2.83	1.67	0.33
<b>TOTAL =</b>				<b>0.4</b>

### NAME PLATES (51500100)

STATION	OFFSET	EACH
626+50.00	22.0' RT	1.0
836+74.00	21.0' RT	1.0
271+22.00	32.5' RT	1.0
<b>TOTAL =</b>		<b>3.0</b>

### CATCH BASINS TO BE ADJUSTED (60250200)

STATION	OFFSET	EACH
836+83.63	33.10' RT	1.0
<b>TOTAL =</b>		<b>1.0</b>

### PATCHING SCHEDULE

STATION	TO STATION	(44201341) CLASS C PATCHES, TYPE II, 9" (SQ YDS)	(44201345) CLASS C PATCHES, TYPE III, 9" (SQ YDS)	(44201347) CLASS C PATCHES, TYPE IV, 9" (SQ YDS)	(44213100) PAVEMENT FABRIC (SQ YDS)	(44213204) TIE BARS 3/4" (EACH)
450+47.67	450+58.33	29.6				5.0
626+41.33	626+58.67		48.2		48.2	9.0
836+65.33	836+82.67		48.2		48.2	9.0
271+04.73	271+39.27			153.5	153.5	25.0
<b>TOTAL =</b>		<b>30.0</b>	<b>97.0</b>	<b>154.0</b>	<b>250.0</b>	<b>48.0</b>

### INSPECTION WELLS (Z0030900)

STATION	OFFSET	EACH
625+98.75	49.5' LT	1.0
272+21.00	59.5' LT	1.0
<b>TOTAL =</b>		<b>2.0</b>

## SCHEDULE OF QUANTITIES (CONT'D)

### SEEDING SCHEDULE

		(28000250) TEMPORARY										
STATION	TO STATION	AREA (ACRE)	(25000200)		(25000350)		(25000400)		(25000500)		(25000600)	
			EROSION CONTROL SEEDING (POUND)	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 7 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUNDS)	PHOSPHOR. FERTILIZER NUTRIENT (POUNDS)	POTASS. FERTILIZER NUTRIENT (POUNDS)	(25100115) MULCH METHOD 2 (ACRE)			
<b>CULVERT #1</b>												
450+00.00 LT	451+50.00 LT	0.04	4.0	0.04	0.04	3.6	3.6	3.6	0.04			
450+00.00 RT	451+50.00 RT	0.04	4.0	0.04	0.04	3.6	3.6	3.6	0.04			
SUBTOTAL =		0.08	8.0	0.08	0.08	7.2	7.2	7.2	0.08			
<b>CULVERT #2</b>												
625+50.00 LT	626+79.00 LT	0.04	4.0	0.04	0.04	3.6	3.6	3.6	0.04			
625+50.00 RT	627+34.00 RT	0.06	6.0	0.06	0.06	5.4	5.4	5.4	0.06			
SUBTOTAL =		0.10	10.0	0.10	0.10	9.0	9.0	9.0	0.10			
<b>CULVERT #3</b>												
835+50.00 LT	837+50.00 LT	0.05	5.0	0.05	0.05	4.5	4.5	4.5	0.05			
835+50.00 RT	838+00.00 RT	0.08	8.0	0.08	0.08	7.2	7.2	7.2	0.08			
SUBTOTAL =		0.13	13.0	0.13	0.13	11.7	11.7	11.7	0.13			
<b>CULVERT #4</b>												
271+00.00 LT	272+50.00 LT	0.06	6.0	0.06	0.06	5.4	5.4	5.4	0.06			
271+00.00 RT	273+00.00 RT	0.10	10.0	0.10	0.10	9.0	9.0	9.0	0.10			
45+00.00 RT	49+50.00 RT	0.14	14.0	0.14	0.14	12.6	12.6	12.6	0.14			
51+00.00 RT	54+14.00 RT	0.22	22.0	0.22	0.22	19.8	19.8	19.8	0.22			
SUBTOTAL =		0.52	52.0	0.52	0.52	46.8	46.8	46.8	0.52			
GRAND TOTAL =		0.8	83.0	0.8	0.8	75.0	75.0	75.0	0.8			

### TEMPORARY DITCH CHECKS (28000305)

STATION (CULVERT #1)	FEET
450+35.00 (LT)	13.0
450+35.00 (RT)	15.0
450+70.00 (LT)	13.0
450+70.00 (RT)	17.0
<b>(CULVERT #2)</b>	
626+25.00 (LT)	14.0
626+25.00 (RT)	14.0
626+70.00 (LT)	12.0
626+70.00 (RT)	13.0
<b>(CULVERT #3)</b>	
836+25.00 (LT)	18.0
836+50.00 (RT)	14.0
837+00.00 (LT)	21.0
837+00.00 (RT)	14.0
<b>(CULVERT #4)</b>	
271+50.00 (LT)	15.0
271+50.00 (RT)	15.0
272+00.00 (LT)	20.0
272+45.00 (LT)	20.0
51+50.00 (RT)	17.0
53+80.00 (RT)	11.0
<b>TOTAL =</b>	<b>276.0</b>

### INLET AND PIPE PROTECTION (28000500)

STATION	OFFSET	EACH
625+98.78	31.11' RT	1.0
836+83.63	33.10' RT	1.0
271+10.33	49.81' LT	1.0
<b>TOTAL =</b>		<b>3.0</b>

### PERMANENT BENCHMARKS, TYPE I (Z0038800)

STATION	OFFSET	EACH
626+50.00	21.5' RT	1.0
836+74.00	20.5' RT	1.0
271+22.00	32.0' RT	1.0
<b>TOTAL =</b>		<b>3.0</b>

### PERIMETER EROSION BARRIER (28000400)

STATION (CULVERT #1)	TO STATION	LENGTH (FT)
450+00.00 LT	451+50.00 LT	150.0
450+00.00 RT	451+50.00 RT	150.0
<b>(CULVERT #2)</b>		
625+50.00 LT	626+80.00 LT	130.0
625+50.00 RT	627+33.00 RT	183.0
<b>(CULVERT #3)</b>		
835+50.00 LT	837+50.00 LT	200.0
835+50.00 RT	837+50.00 RT	200.0
<b>(CULVERT #4)</b>		
51+79.00 RT	54+00.00 RT	221.0
271+00.00 LT	272+16.00 LT	189.0
272+16.00 LT	272+50.00 LT	34.0
45+00.00 RT	47+10.00 RT	210.0
47+10.00 RT	49+42.00 RT	246.0
271+19.00 RT	272+50.00 RT	131.0
<b>TOTAL =</b>		<b>2,044.0</b>

## SCHEDULE OF QUANTITIES (CONT'D)

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

**WHITE-**

STATION	TO STATION	LOCATION	FEET
450+47.67	450+58.33	11.0' LT	10.7
450+47.67	450+58.33	11.0' RT	10.7
626+41.33	626+58.67	11.0' LT	17.3
626+41.33	626+58.67	11.0' RT	17.3
836+65.33	836+82.67	11.0' LT	17.3
836+65.33	836+82.67	11.0' RT	17.3
271+13.00	271+39.27	17.0' LT	27.0
271+13.00	271+39.27	17.0' RT	27.0
271+04.73	271+39.27	6.0' LT	<u>34.5</u>

TOTAL = 180.0

**YELLOW-**

STATION	TO STATION	LOCATION	FEET
450+47.67	450+58.33	SKIP-DASH	2.7
626+41.33	626+58.67	SKIP-DASH	4.3
836+65.33	836+82.67	SKIP-DASH	4.3
271+04.73	271+39.27	DOUBLE SOLID	<u>69.0</u>

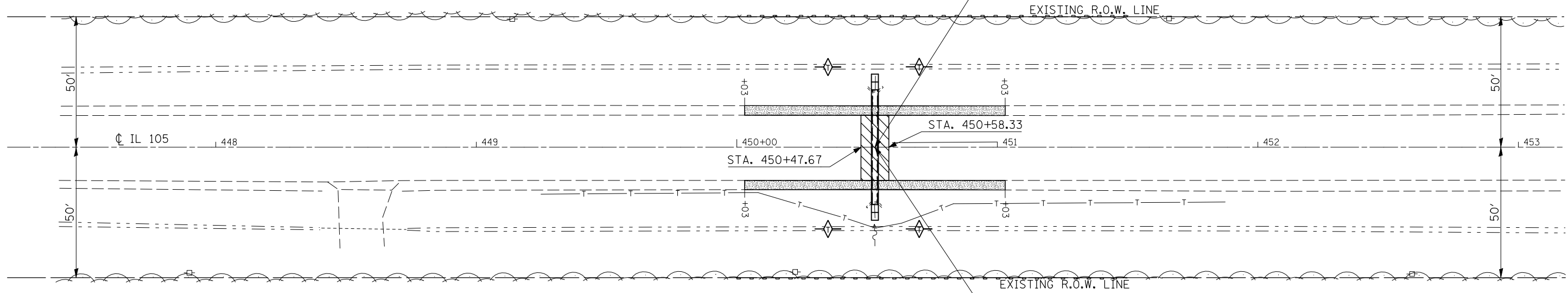
TOTAL = 81.0

SEC. 30, T 17 N, R 6 E, 3RD P.M.

REMOVE EXISTING STRUCTURE NO. 1  
STATION 450+53.00  
1 @ 2'x1.5'x44' R.C. BOX CULVERT



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ALIGNED		
	FILED		
NOTE BOOK NO.	CADD FILE NAME		



CLASS C PATCHES, TYPE II, 9" = 29.6 SQ.YD.

TEMPORARY DITCH CHECK

AGGREGATE SHOULDERS, TYPE B, 6" = 77.8 SQ.YD.

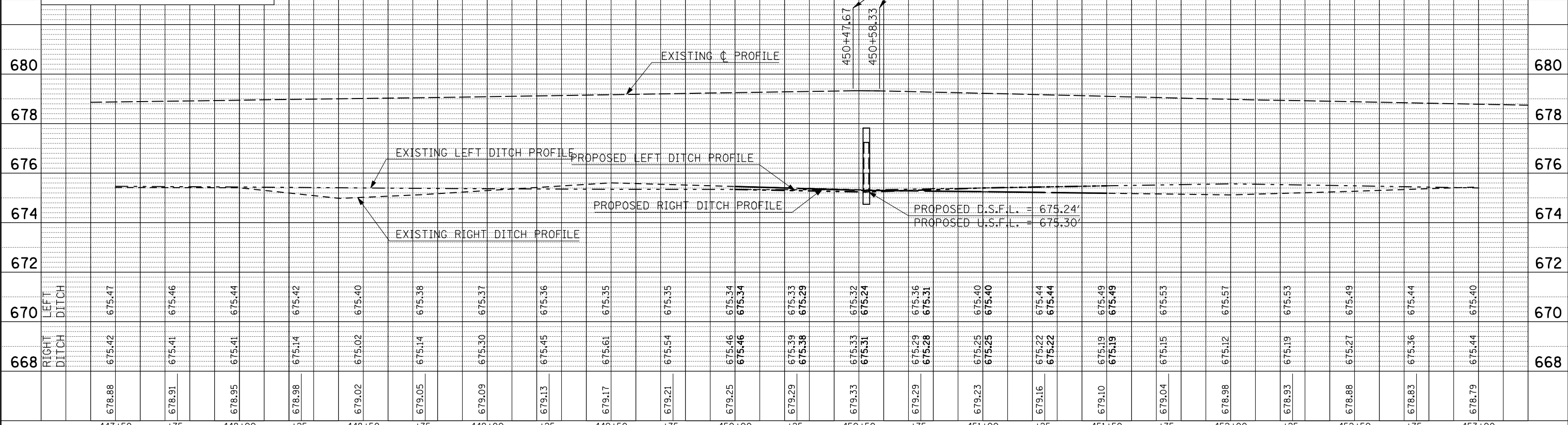
PERIMETER EROSION BARRIER

PROPOSED CULVERT #1, STA. 450+53.00  
PRECAST BOX CULVERT 1 @ 2'x2'x44' (M273), 0° SKEW  
WITH PRECAST END SECTIONS - 2 EACH  
STA. 450+53.00, LT. 22.0', D.S.F.L. = 675.24'  
STA. 450+53.00, RT. 22.0', U.S.F.L. = 675.30'

SEC. 25, T 17 N, R 5 E, 3RD P.M.

BENCHMARK 4837-1  
CHISLED "□" ON THE WEST HEADWALL  
OF EXISTING 2'x1.5' BOX CULVERT  
STATION 450+53.02, 21.21' RT.  
ELEVATION = 678.28' (NAVD 1988)

LIMITS OF ROADWAY WORK



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	GRADES		
	STRUCTURE		
NOTE BOOK NO.	NOTATION CHNO		

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE (CULVERT #1)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\hennessdm\d0184799\0570800-sht-plnprf.dgn		DRAWN -	REVISED -			741	(8,3,10)CR	PIATT	65	17
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 70800				
PLOT DATE = 10/19/2010		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

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

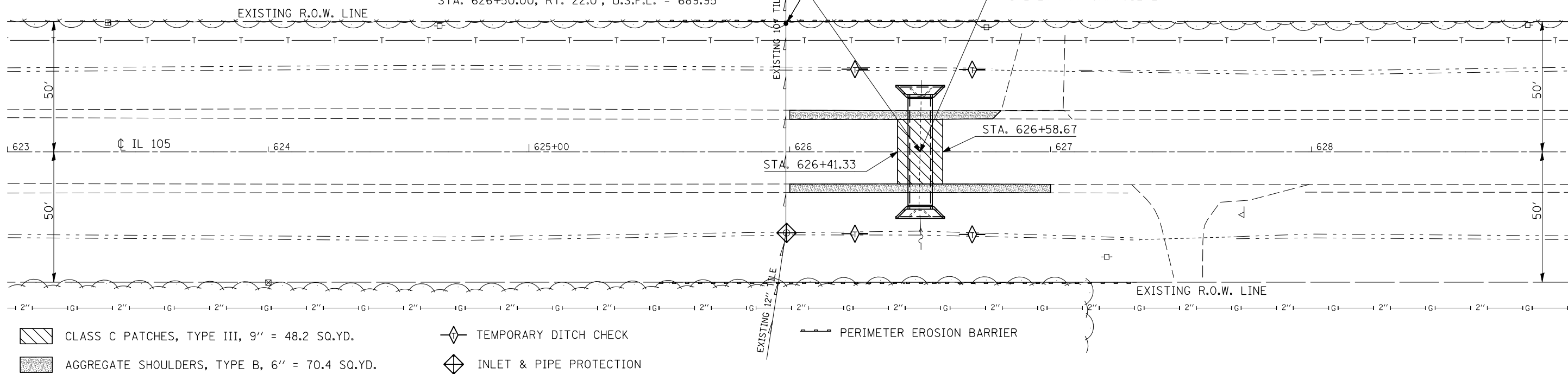
SEC. 33, T 17 N, R 5 E, 3RD P.M.

PROPOSED S.N. 074-8062, STA. 626+50.00  
 PRECAST BOX CULVERT 1 @ 8'x2'x44' (M273), 0° SKEW  
 WITH CAST-IN-PLACE END SECTIONS - 2 EACH  
 STA. 626+50.00, LT. 22.0', D.S.F.L. = 689.90'  
 STA. 626+50.00, RT. 22.0', U.S.F.L. = 689.95'

INSPECTION WELL - 1 EACH  
 STA. 625+98.75, 49.5' LT.

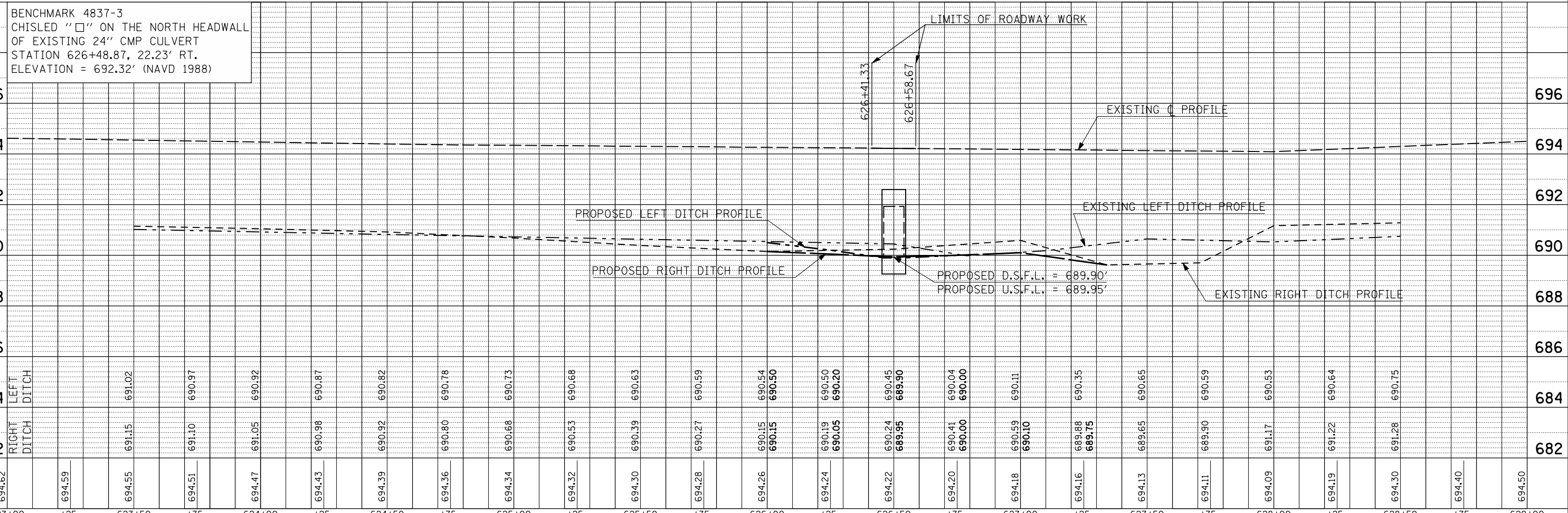
REMOVE EXISTING STRUCTURE NO. 2  
 STATION 626+50.00  
 1 @ 24'x44' CMP CULVERT

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ATTEMPTED	
	FILE NAME	
NOTE BOOK		
NO.		



SEC. 28, T 17 N, R 5 E, 3RD P.M.

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	ATTEMPTED	
	FILE NAME	
NOTE BOOK		
NO.		



623+00	+25	623+50	+75	624+00	+25	624+50	+75	625+00	+25	625+50	+75	626+00	+25	626+50	+75	627+00	+25	627+50	+75	628+00	+25	628+50	+75	629+00
694.62	694.59	694.55	694.51	694.47	694.43	694.39	694.36	694.34	694.32	694.30	694.28	694.26	694.24	694.22	694.20	694.18	694.16	694.13	694.11	694.09	694.19	694.30	694.40	694.50
		691.02	690.97	690.92	690.87	690.82	690.78	690.73	690.68	690.63	690.59	690.54	690.50	690.45	690.40	690.35	690.30	690.25	690.20	690.15	690.10	690.05	690.00	689.95
		691.15	691.10	691.05	690.98	690.92	690.80	690.68	690.53	690.39	690.27	690.15	690.05	689.95	690.41	689.88	689.75	689.65	689.50	691.17	691.22	691.28	691.40	691.50

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE S.N. 074-8062 (CULVERT #2)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,3,10)CR	PIATT	65	18
CONTRACT NO. 70800				

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

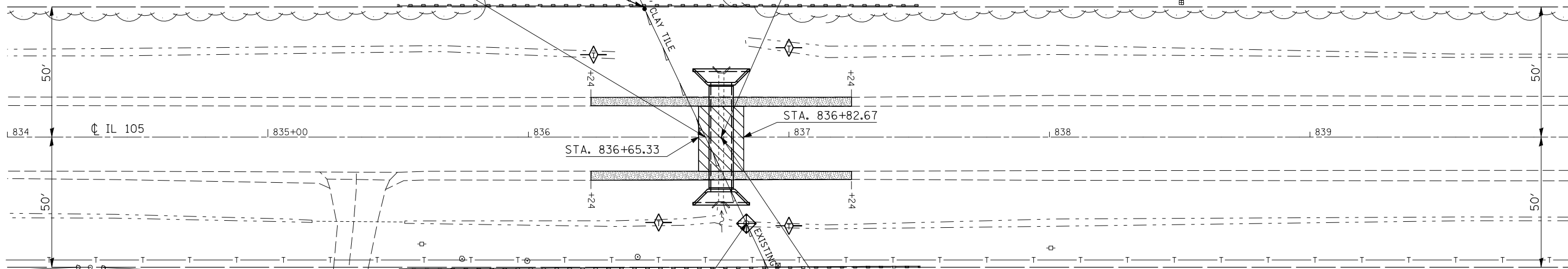
ILLINOIS FED. AID PROJECT

SEC. 35, T 17 N, R 4 E, 3RD P.M.

INSPECTION WELL - 1 EACH  
STA. 836+44.00, 49.5' LT.

REMOVE EXISTING STRUCTURE NO. 3  
STATION 836+74.00  
1 @ 2'x1.5'x50' R.C. BOX CULVERT

STORM SEWERS, SPECIAL 18"  
STA. 836+68.00



CLASS C PATCHES, TYPE III, 9" = 48.2 SQ.YD.

AGGREGATE SHOULDERS, TYPE B, 6" = 77.8 SQ.YD.

CATCH BASIN TO BE ADJUSTED - 1 EACH  
STA. 836+83.63, 33.10' RT.  
EXIST. ELEV. (TOP OF GRATE) = 721.82'  
PROP. ELEV. (TOP OF GRATE) = 722.68'

PROPOSED S.N. 074-8065, STA. 836+74.00  
PRECAST BOX CULVERT 1 @ 8'x3'x42" (M273), 0° SKEW  
WITH CAST-IN-PLACE END SECTIONS - 2 EACH  
STA. 836+74.00, LT. 21.0', D.S.F.L. = 722.59'  
STA. 836+74.00, RT. 21.0', U.S.F.L. = 722.68'

◇ TEMPORARY DITCH CHECK

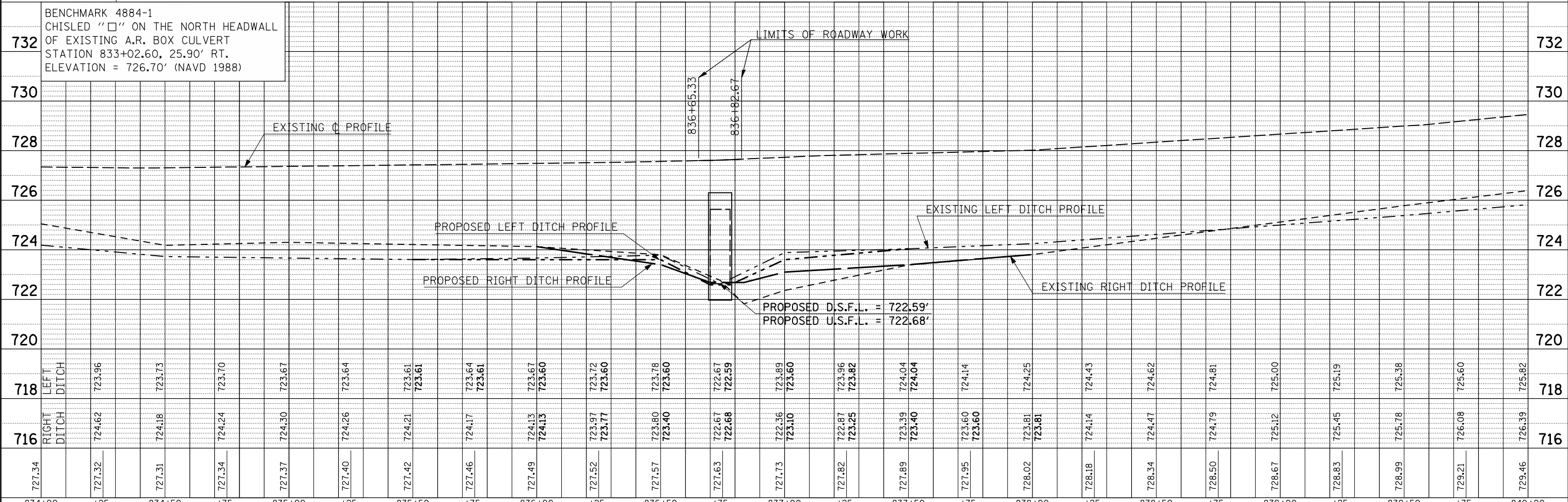
— PERIMETER EROSION BARRIER

◇ INLET & PIPE PROTECTION

SEC. 26, T 17 N, R 4 E, 3RD P.M.

BENCHMARK 4884-1  
CHISLED "□" ON THE NORTH HEADWALL  
OF EXISTING A.R. BOX CULVERT  
STATION 833+02.60, 25.90' RT.  
ELEVATION = 726.70' (NAVD 1988)

LIMITS OF ROADWAY WORK

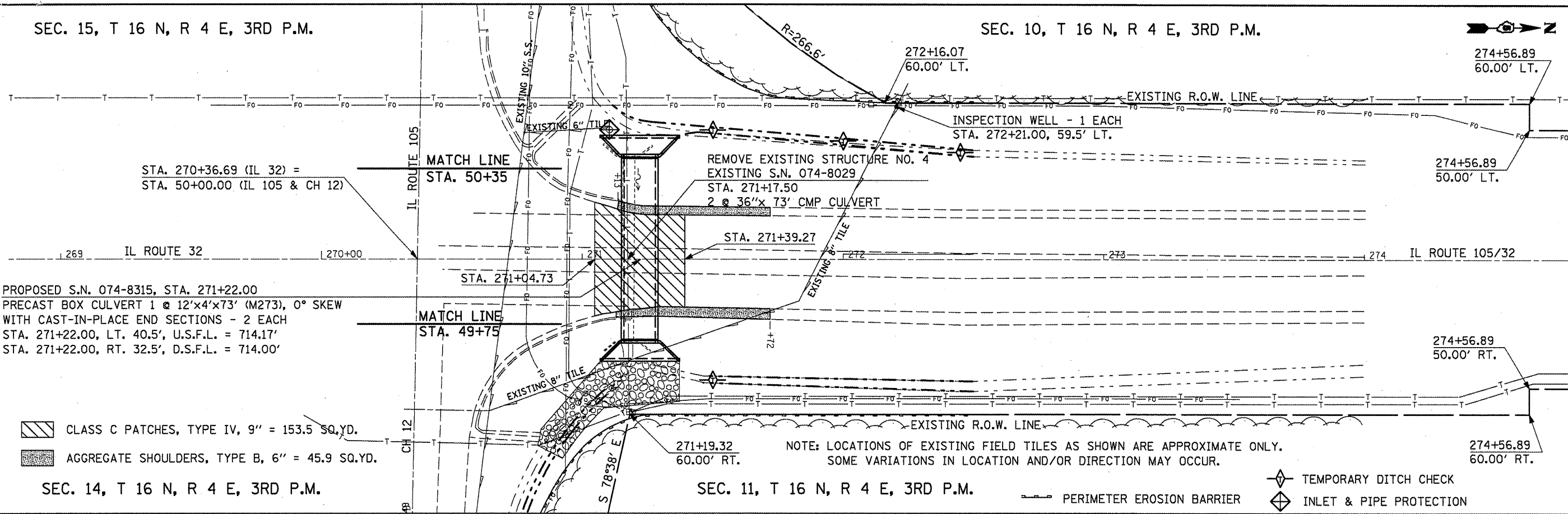


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ATTEMPTED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ATTEMPTED		
	STRUCTURE		
	NOTATION		
	CHRD		
	NO.		

SEC. 15, T 16 N, R 4 E, 3RD P.M.

SEC. 10, T 16 N, R 4 E, 3RD P.M.



STA. 270+36.69 (IL 32) =  
STA. 50+00.00 (IL 105 & CH 12)

PROPOSED S.N. 074-8315, STA. 271+22.00  
PRECAST BOX CULVERT 1 @ 12'x4'x73' (M273), 0° SKEW  
WITH CAST-IN-PLACE END SECTIONS - 2 EACH  
STA. 271+22.00, LT. 40.5', U.S.F.L. = 714.17'  
STA. 271+22.00, RT. 32.5', D.S.F.L. = 714.00'

CLASS C PATCHES, TYPE IV, 9" = 153.5 SQ.YD.  
AGGREGATE SHOULDERS, TYPE B, 6" = 45.9 SQ.YD.

NOTE: LOCATIONS OF EXISTING FIELD TILES AS SHOWN ARE APPROXIMATE ONLY.  
SOME VARIATIONS IN LOCATION AND/OR DIRECTION MAY OCCUR.

TEMPORARY DITCH CHECK  
INLET & PIPE PROTECTION

SEC. 14, T 16 N, R 4 E, 3RD P.M.

SEC. 11, T 16 N, R 4 E, 3RD P.M.

NOTE: COMBINATION CURB AND GUTTER REMOVAL DEEMED NECESSARY DURING THE REMOVAL OF S.N. 074-8029 SHALL BE INCLUDED IN THE COST OF "REMOVAL OF EXISTING STRUCTURES NO. 4" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

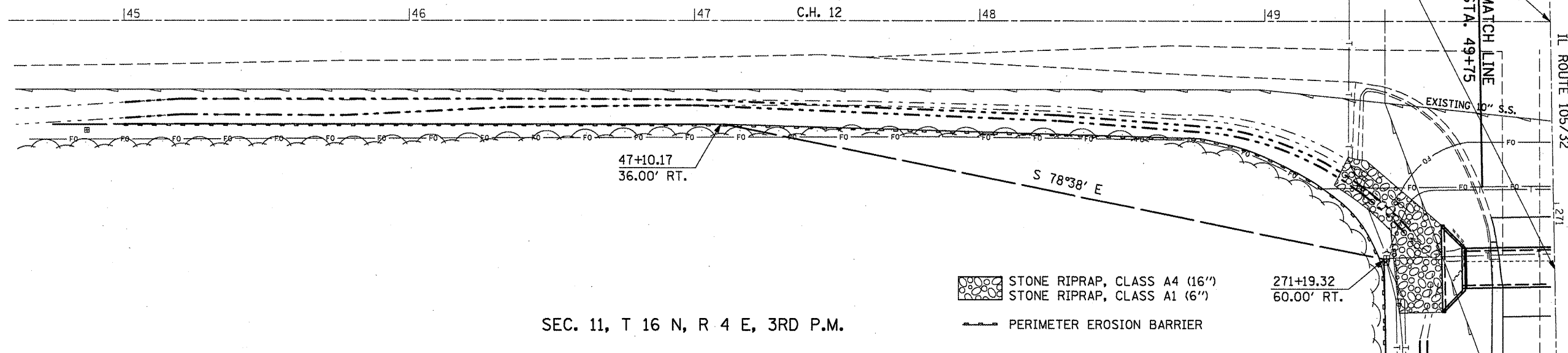
		LIMITS OF ROADWAY WORK																	
		BENCHMARK 4351-23 CHISLED "□" ON THE EAST HEADWALL OF S.N. 074-8029 STATION 271+21.59, 32.01' RT. ELEVATION = 717.69' (NAVD 1988)																	
STATION	TYPE	722	720	718	716	714	712	710	708	722	720	718	716	714	712	710	708	722	720
270+50																			
270+75																			
271+00																			
271+25																			
271+50																			
271+75																			
272+00																			
272+25																			
272+50																			
272+75																			
273+00																			
273+25																			
273+50																			
273+75																			
274+00																			



SEC. 14, T 16 N, R 4 E, 3RD P.M.

STA. 270+36.69 (IL 32) =  
STA. 50+00.00 (IL 105 & CH 12)

PROPOSED S.N. 074-8315, STA. 271+22.00  
PRECAST BOX CULVERT 1 @ 12'x4'x73" (M273), 0° SKEW  
WITH CAST-IN-PLACE END SECTIONS - 2 EACH,  
STA. 271+22.00, LT. 40.5', U.S.F.L. = 714.17  
STA. 271+22.00, RT. 32.5', D.S.F.L. = 714.00'



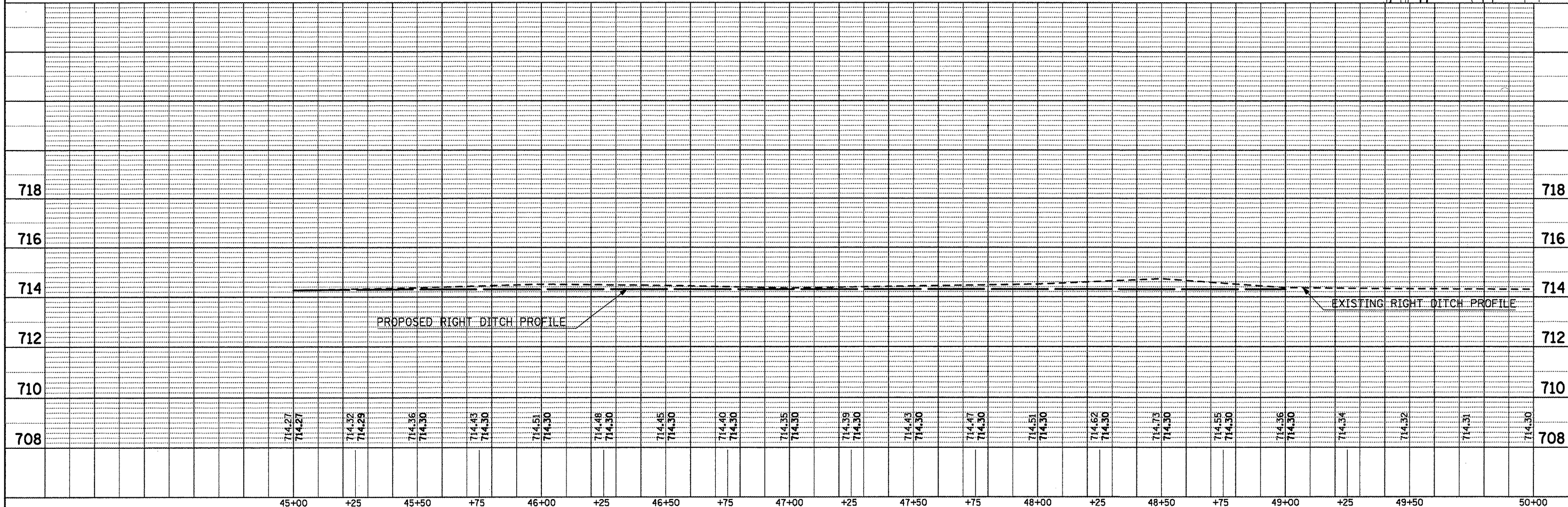
SEC. 11, T 16 N, R 4 E, 3RD P.M.

STONE RIPRAP, CLASS A4 (16")  
STONE RIPRAP, CLASS A1 (6")

PERIMETER EROSION BARRIER

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF MAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO. OF MAY CHECKED	
	STRUCTURE NOTATION CHKO	



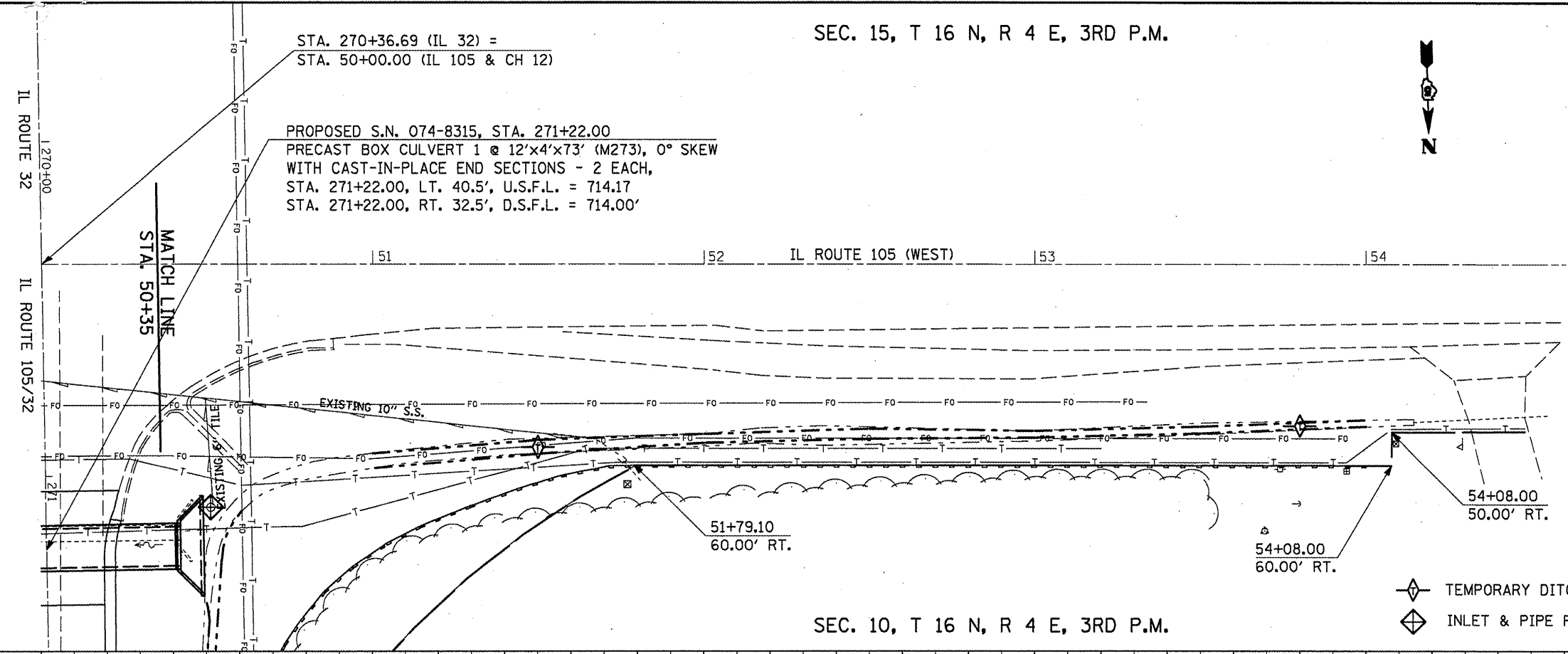
FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>C.H. 12 (RIGHT DITCH) PLAN &amp; PROFILE</b></p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\paw\dot\hennessdm\0184799\0576800-ahf-plnprf.dgn		DRAWN -	REVISED -			741	(8,9,10)CR	PLATT	65	21
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 70800				
PLOT DATE = 10/26/2018		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SEC. 15, T 16 N, R 4 E, 3RD P.M.



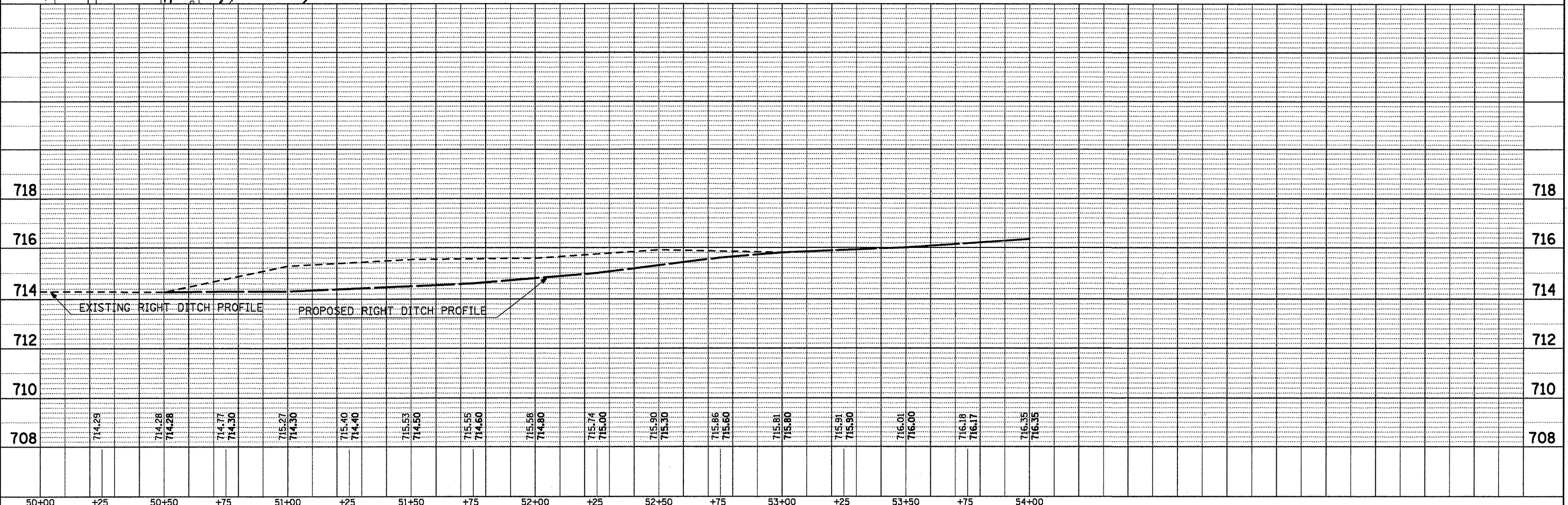
STA. 270+36.69 (IL 32) =  
STA. 50+00.00 (IL 105 & CH 12)

PROPOSED S.N. 074-8315, STA. 271+22.00  
PRECAST BOX CULVERT 1 @ 12'x4'x73' (M273), 0° SKEW  
WITH CAST-IN-PLACE END SECTIONS - 2 EACH,  
STA. 271+22.00, LT. 40.5', U.S.F.L. = 714.17  
STA. 271+22.00, RT. 32.5', D.S.F.L. = 714.00'



SEC. 10, T 16 N, R 4 E, 3RD P.M.

- TEMPORARY DITCH CHECK
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER



FILE NAME =	USER NAME = hennessdn	DESIGNED -	REVISED -	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 48.0000 "/> <td></td> <td>CHECKED -</td> <td>REVISED -</td> <td colspan="4">CONTRACT NO. 70800</td> <td></td>		CHECKED -	REVISED -	CONTRACT NO. 70800				
PLOT DATE = 10/26/2010		DATE -	REVISED -	ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 105 (RIGHT DITCH) PLAN & PROFILE

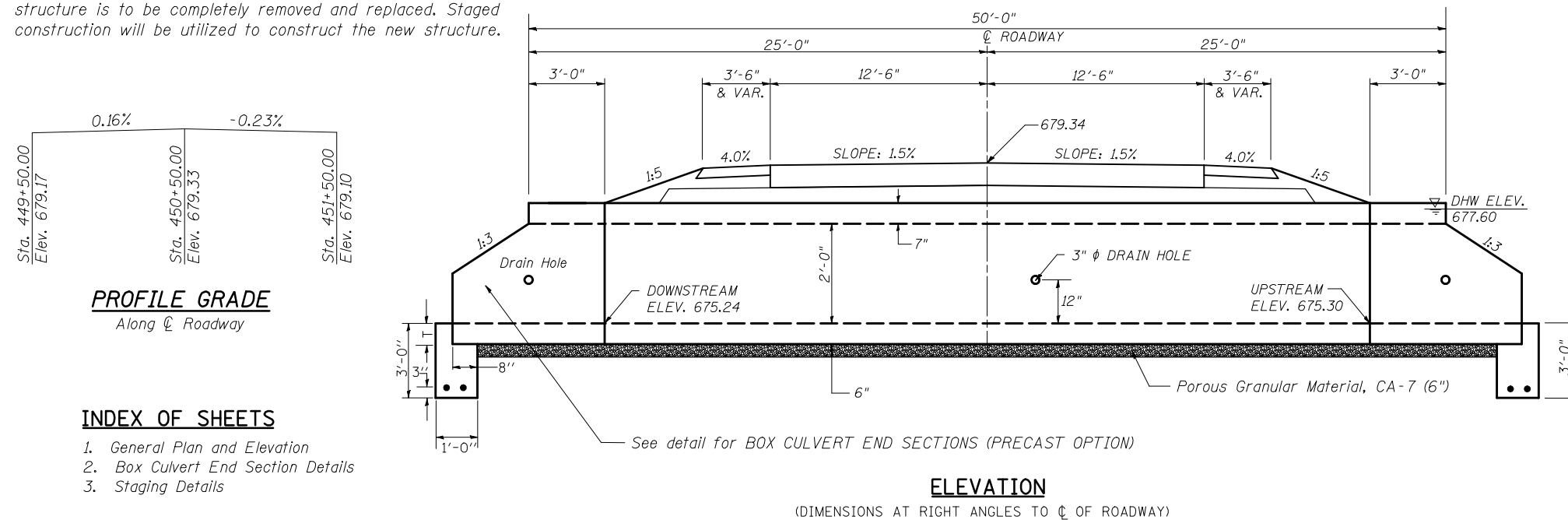
SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	STRUCTURE NOTATIONS CHRD	

BENCHMARK ELEVATION: 678.28' Chiseled square on the west headwall of existing 2'x1.5' box culvert. Station 450+53.02, 21.21' RT.

EXISTING STRUCTURE: A 2'x1.5'x44' concrete box culvert was constructed in 1922 as part of Section 8 in Platt County. Each end was extended in 1958 as part of Section (7S,8,28)W&RS. The existing structure is to be completely removed and replaced. Staged construction will be utilized to construct the new structure.



### GENERAL NOTES

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

All bars should be rounded and conform to the requirements of Article 1006.10 of the Standard Specifications.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

If the Contractor elects to use a precast cut-off wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

Drawings not to scale.

### INDEX OF SHEETS

1. General Plan and Elevation
2. Box Culvert End Section Details
3. Staging Details

### DESIGN SPECIFICATIONS

2002 AASHTO

### LOADING HS20-44

Allow 50#/sq.ft. for future wearing surface

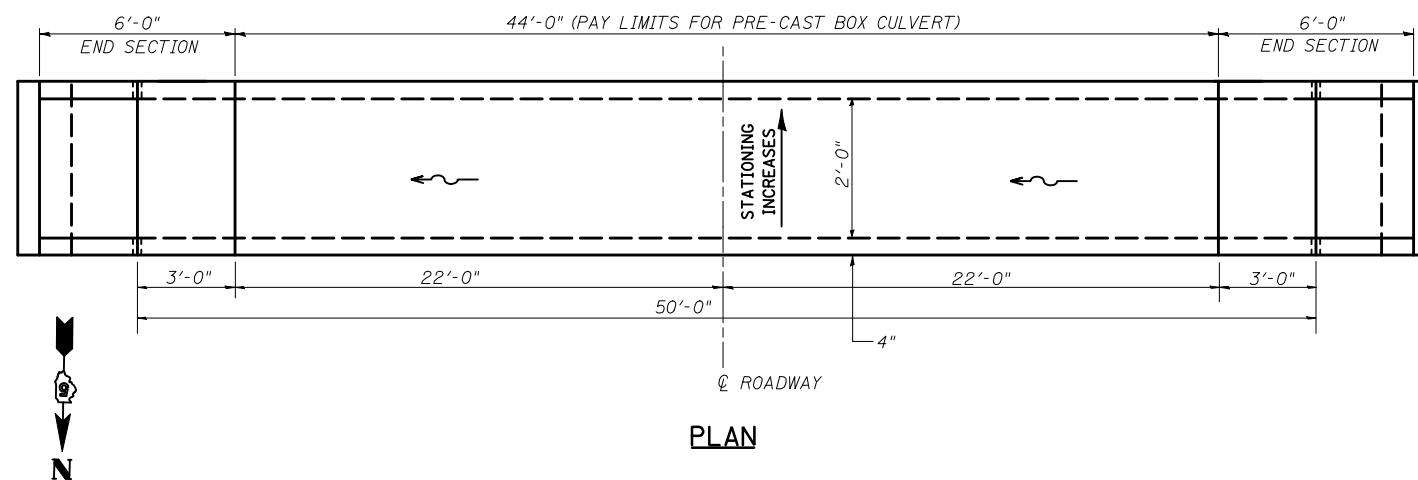
### DESIGN STRESSES

#### FIELD UNITS

- $f'_c = 3,500$  psi
- $f_y = 60,000$  psi (reinforcement)
- $f_y = 65,000$  psi (welded wire fabric)

#### PRECAST UNITS

- $f'_c = 5,000$  psi
- $f_y = 65,000$  psi (welded wire fabric)



### TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures No. 1	Foot	44
Precast Concrete Box Culvert 2'x2' (M273)	Foot	44
Box Culvert End Section, Culvert No. 1	Each	2
Porous Granular Embankment	Cu Yd	25.1

### WATERWAY INFORMATION

Drainage Area = 0.03 sq.mi. Proposed Low Grade Elev. 678.98 @ Sta. 452+04

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	11	3	4			677.3	677.2	
Base	50	16	3	4			677.7	677.6	
Overtopping	100	18	3	4			678.2	677.8	
Max. Calc.	500	25	3	4			Over	678.6	

10 year velocity through existing bridge = 4.52 fps 10 year velocity through proposed bridge = 3.77 fps  
Note: Information provided utilizing Rational Method (Collins Equations)

### DESIGN SCOUR ELEVATION TABLE

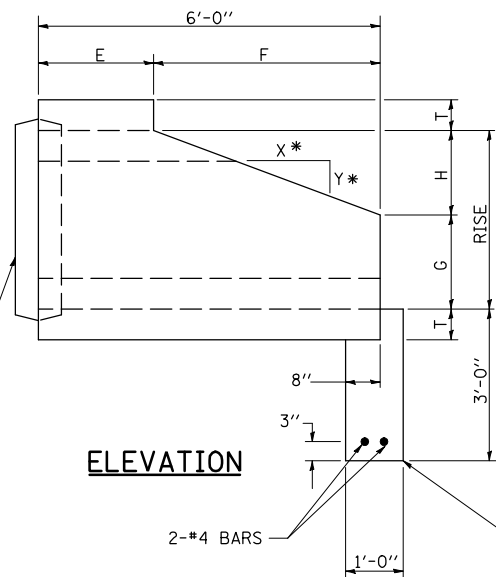
Design Scour Elevation (ft.)	Upstream	Downstream
	672.30	672.24

### GENERAL PLAN AND ELEVATION SINGLE 2'x2' PRECAST BOX CULVERT E.A.P. ROUTE 741 - SECTION (8,9,10)CR STATION 450+53.00 CULVERT NO. 1

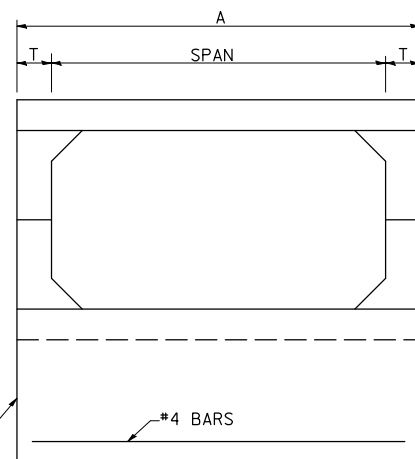
FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION (CULVERT #1)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\hennessdm\0184799\0570800-sh1-Details.dgn	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -					741	(8,9,10)CR	Platt	65	23
	PLOT DATE = 10/19/2010	CHECKED -	REVISED -		SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 70800				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

**DIMENSIONS \*\***

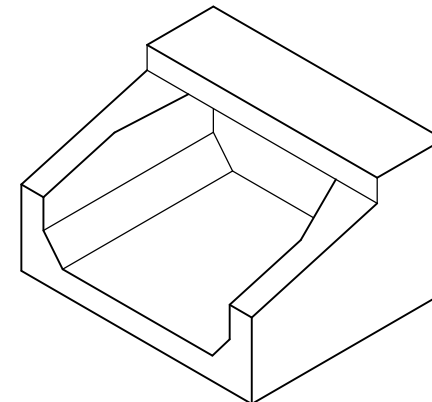
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7	2-0	4-0	3-0	2-0	2:1
6' X 6'	7	7-2	7-2	7	2-0	4-0	4-0	2-0	2:1
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8					
7' X 6'	8	8-4	7-4	8					
7' X 7'	8	8-4	8-4	8					
8' X 4'	8	9-4	5-4	8	2-0	4-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8					
8' X 6'	8	9-4	7-4	8					
8' X 7'	8	9-4	8-4	8					
8' X 8'	8	9-4	9-4	8					
9' X 5'	9	10-6	6-6	9					
9' X 6'	9	10-6	7-6	9					
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10					
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11' X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	11	12-10	12-10	11					
12' X 2'	12	14-0	4-0	12					
12' X 4'	12	14-0	6-0	12					
12' X 6'	12	14-0	8-0	12					
12' X 8'	12	14-0	10-0	12					
12' X 10'	12	14-0	12-0	12					
12' X 12'	12	14-0	14-0	12					



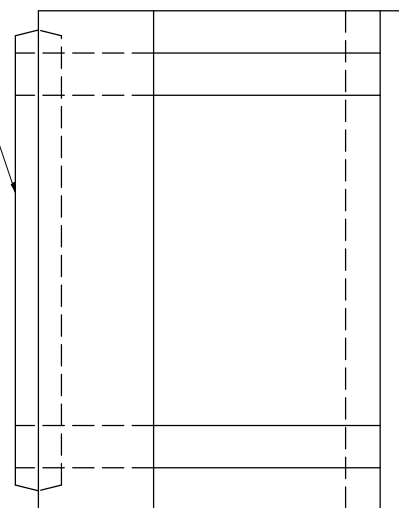
\*2:1 SLOPE MINIMUM



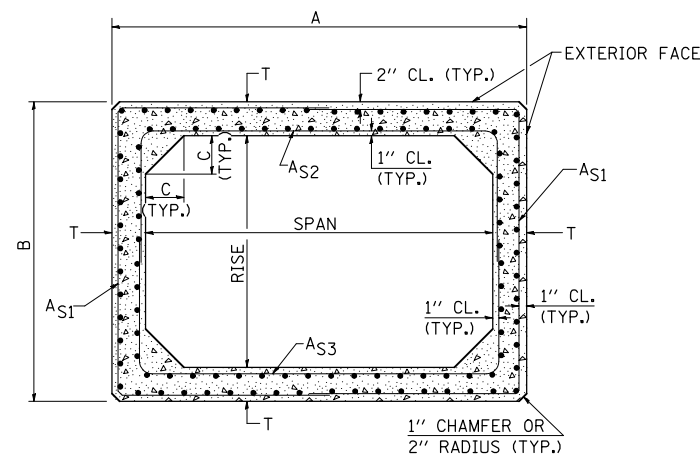
**END VIEW**



**ISOMETRIC**



**PLAN**



**CROSS SECTION**

**GENERAL NOTES**

SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03(b) OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH SECTION 1055 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

**\*\* NOTE:**

THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

STD. 9-50 (FROM DISTRICT 9)

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
ct:\pw\work\p\wdot\hennessdm\d0184799\0570800-sh1-Details.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/19/2010		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

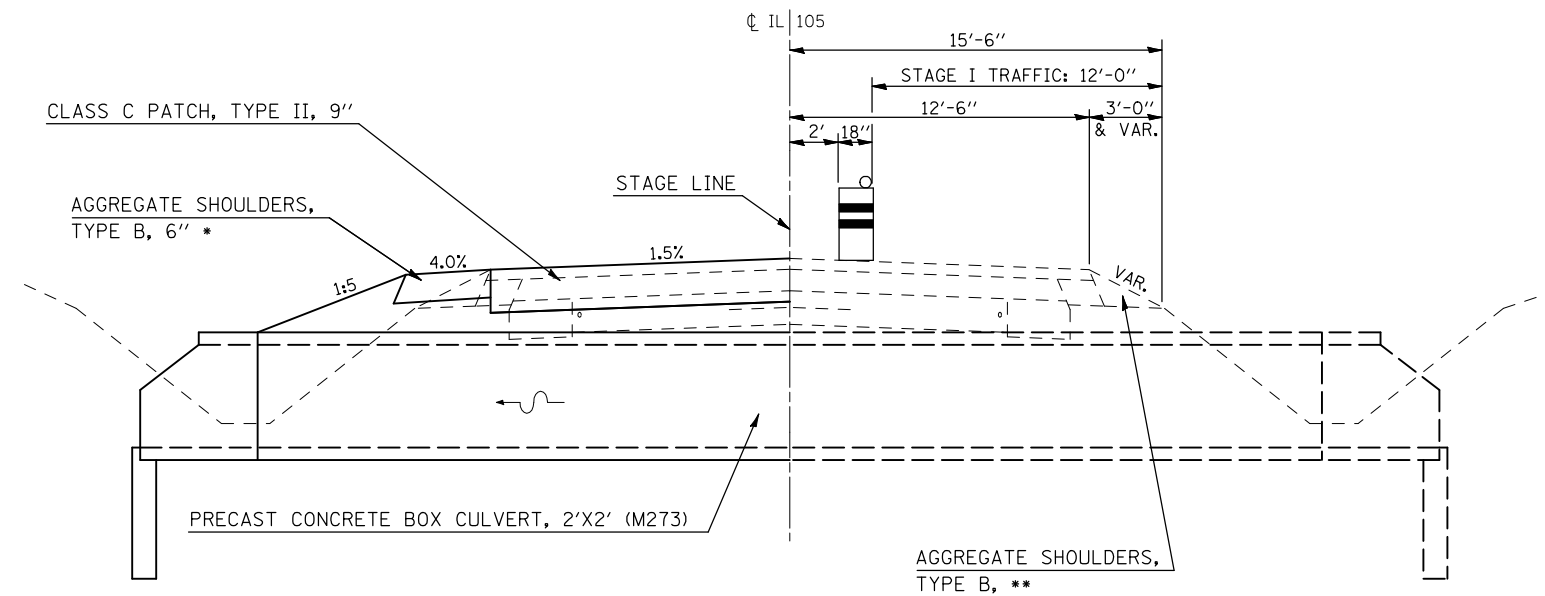
**BOX CULVERT END SECTION DETAILS (PRECAST OPTION)  
CULVERT NO. 1**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

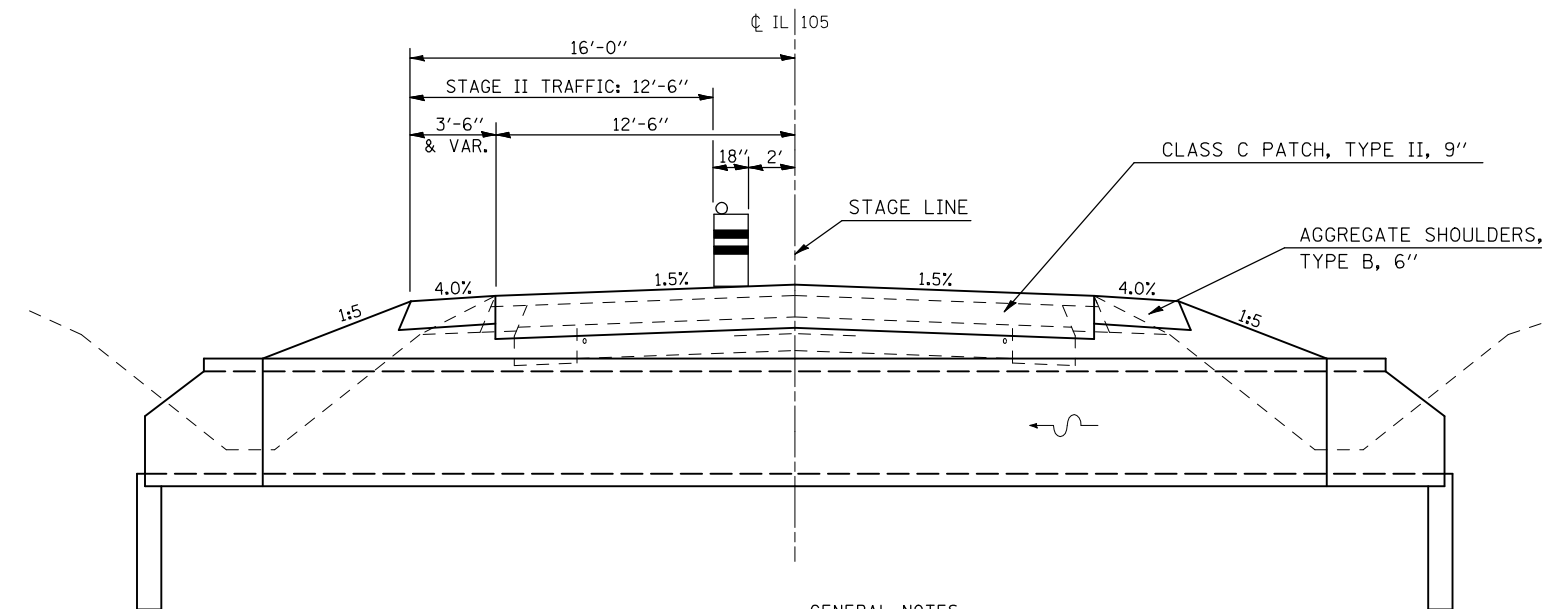
**DISTRICT 5 DETAIL NO. 54001AAA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Platt	65	24
CONTRACT NO. 70800				
ILLINOIS FED. AID PROJECT				

# TYPICAL STAGING DETAILS @ PROPOSED CULVERT #1 STAGE I



# TYPICAL STAGING DETAILS @ PROPOSED CULVERT #1 STAGE II



**GENERAL NOTES**

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 and STAGE CONSTRUCTED ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of AGGREGATE SHOULDERS, TYPE B, 6" and EARTH EXCAVATION based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. AGGREGATE SHOULDERS, TYPE B, 6" for Stage I may be completed at any time prior to Stage I. AGGREGATE SHOULDERS, TYPE B, 6" for Stage II should not be completed until the half-width culvert from Stage I has been constructed.
- \* 5. Replace previously constructed AGGREGATE SHOULDERS, TYPE B, 6" as needed when construction is completed.
- \*\* 6. Extra Quantities for AGGREGATE SHOULDERS, TYPE B are included in the plans, if needed, to build up the existing shoulder for STAGE I TRAFFIC.

A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME
STA. 450+53.00	701201	24 HRS (2) - 12 HR DAY SHIFTS

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
ct:\pw\work\pwwork\hennessdm\0184799\0570800-sh1-staging.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

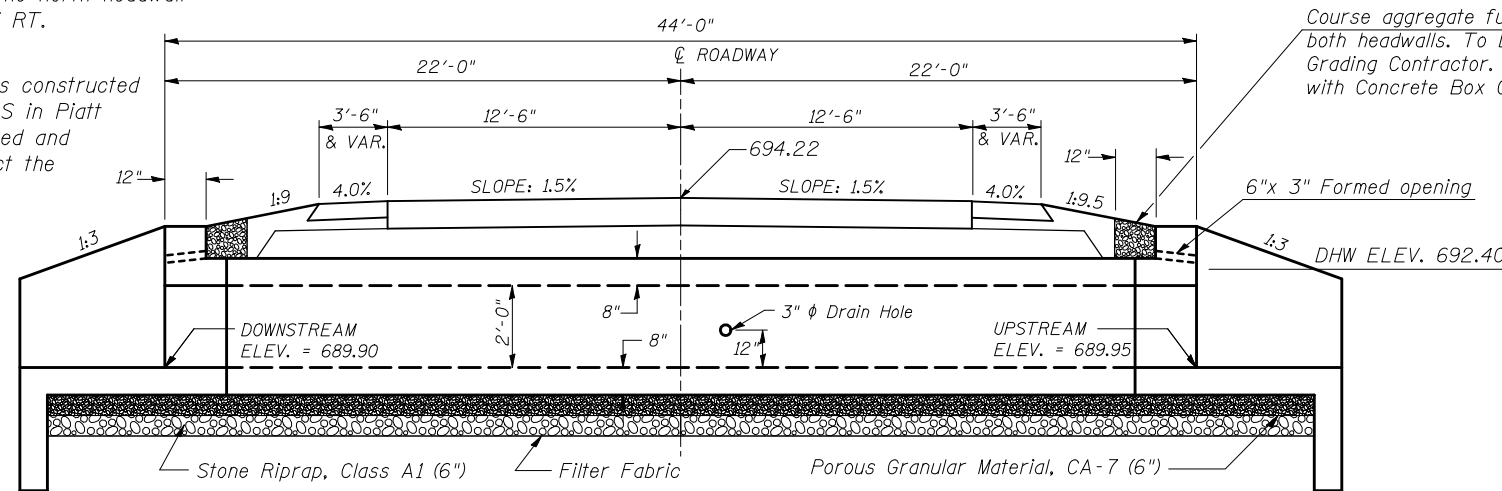
**TYPICAL STAGING DETAILS**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

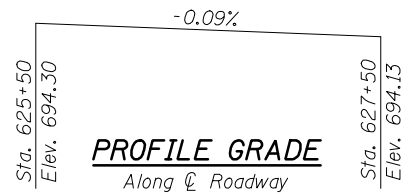
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	25
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

BENCHMARK ELEVATION: 692.32' Chiseled square on the north headwall of existing 24" CMP culvert. Station 626+48.87, 22.23' RT.

EXISTING STRUCTURE: An existing 24" CMP culvert was constructed in 1960 as part of Section 8W-1,(9,10)W & 8RS-1,(9,10)RS in Piatt County. The existing structure is to be completely removed and replaced. Staged construction will be utilized to construct the new structure.



**ELEVATION**  
(DIMENSIONS AT RIGHT ANGLES TO C OF ROADWAY)



STATION 626+50.00  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 741 SEC. (8,9,10)CR  
LOADING HS 20  
STRUCTURE NO. 074-8062

**NAME PLATE**  
See Std. 515001

**INDEX OF SHEETS**

1. General Plan and Elevation
2. Box Culvert End Section Details
3. Staging Details

**DESIGN SPECIFICATIONS**

2002 AASHTO

**LOADING HS20-44**

Allow 50#/sq.ft. for future wearing surface

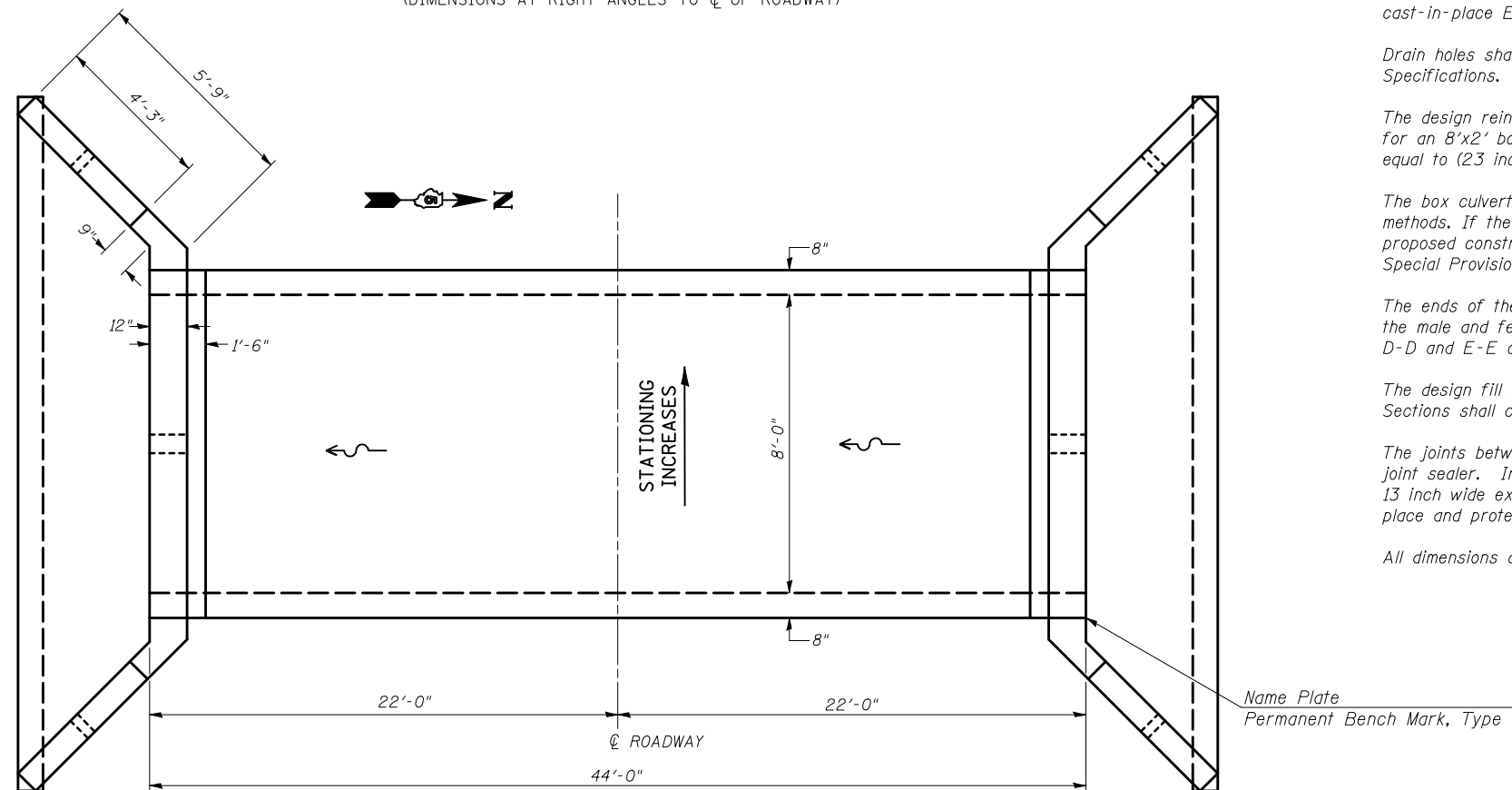
**DESIGN STRESSES**

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

PRECAST UNITS

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (welded wire fabric)



**PLAN**

**WATERWAY INFORMATION**

Drainage Area = 0.220 sq.mi. Low Grade Elev. 694.09 @ Sta. 628+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	53	3	15			Over	691.8	
Design	50	84	3	16			Over	692.4	
Base	100	98	3	16			Over	692.8	
Overtopping									
Max. Calc.	500	132	3	16			Over	694.0	

10 year velocity through existing bridge = 3.01 fps 10 year velocity through proposed bridge = 4.25 fps  
Note: Information provided utilizing USGS Method (2004-5103)

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
		686.95

**GENERAL NOTES**

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The design reinforcement areas shall conform to those found in Table 1 of AASHTO M273 for an 8'x2' box section except the extension of the A51 bars into the top slab shall be equal to (23 inches + 2 longitudinal wire spaces).

The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D and E-E on Sheet 2.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.

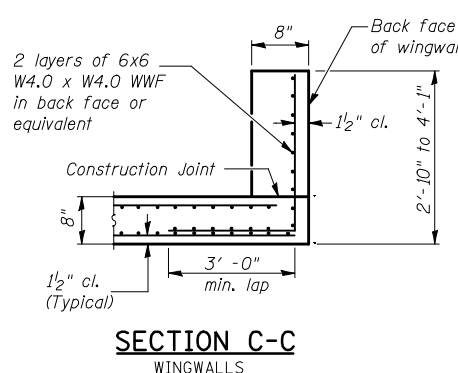
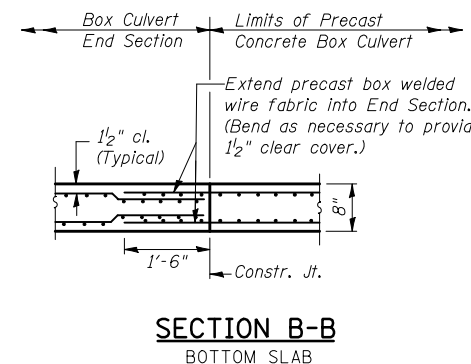
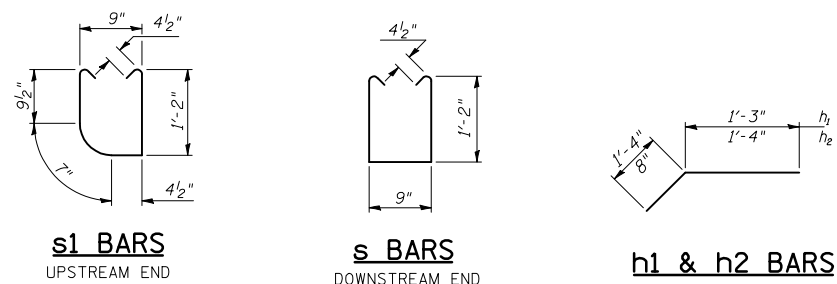
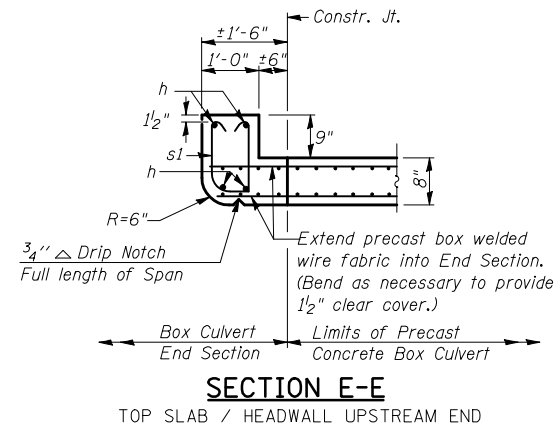
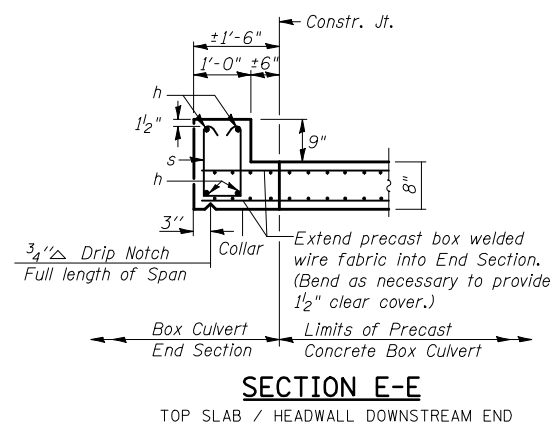
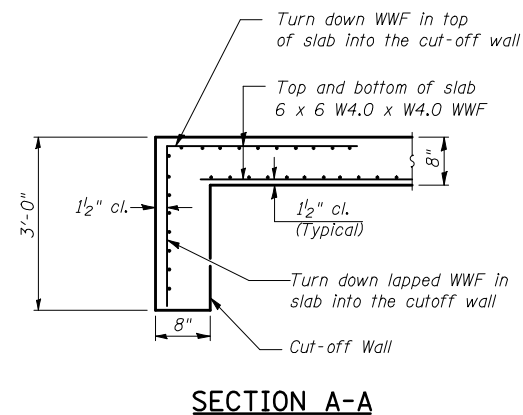
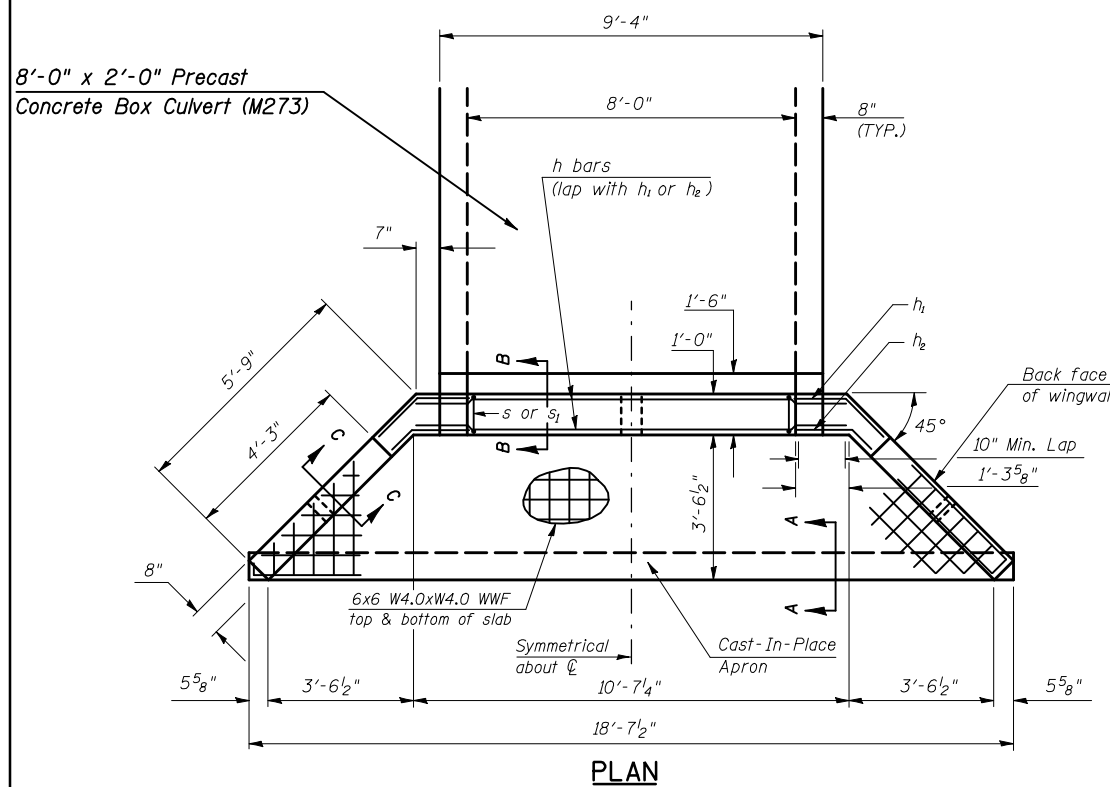
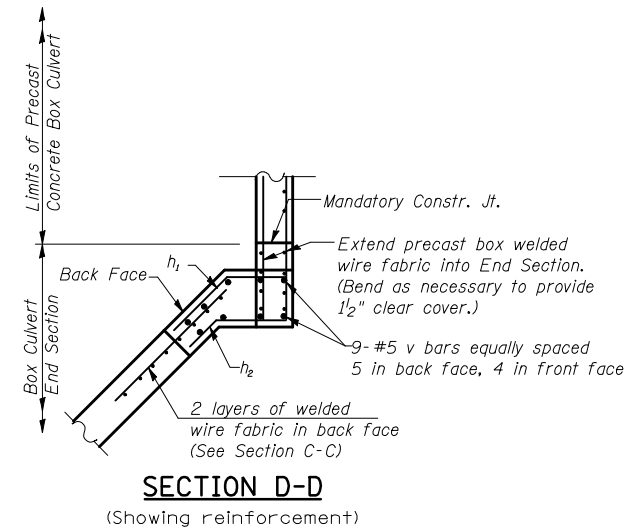
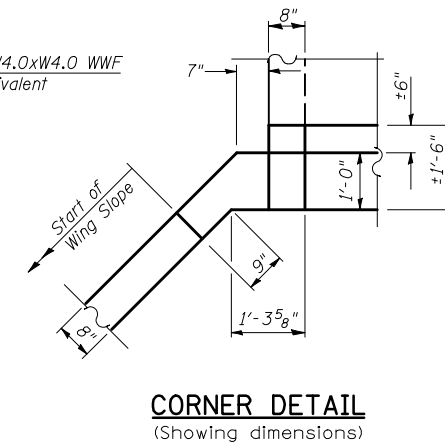
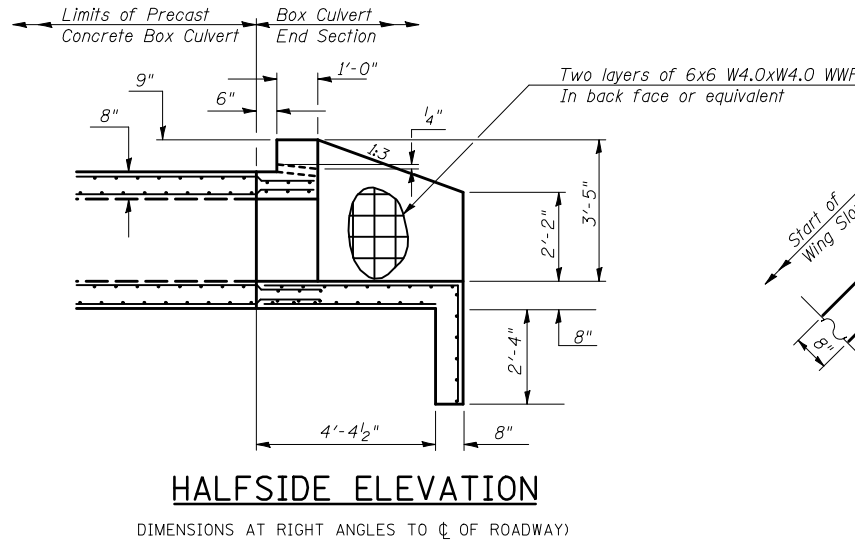
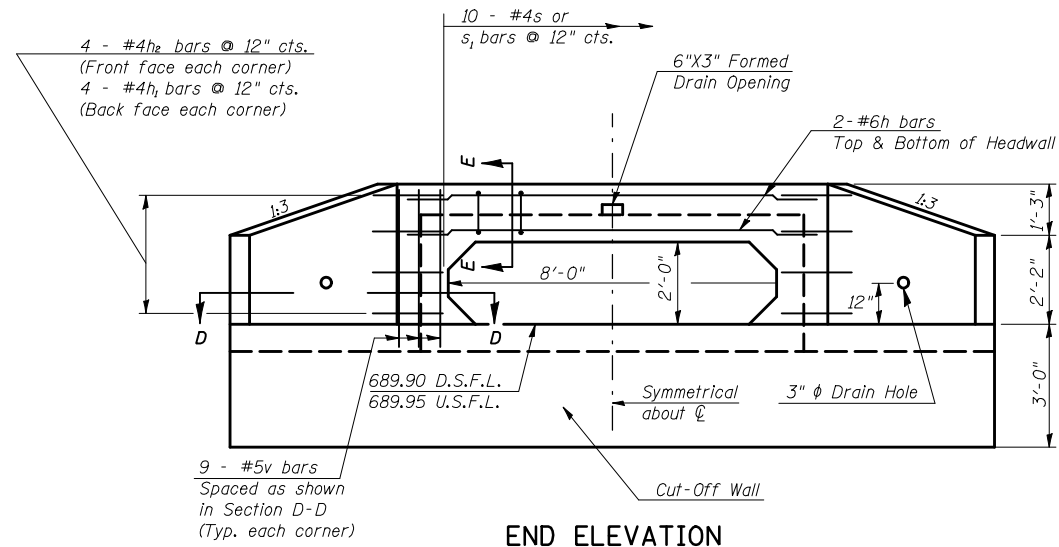
**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Structures No. 2	Each	1
Precast Concrete Box Culvert 8'x2' (M273)	Foot	41
Box Culvert End Section, Culvert No. 2	Each	2
Name Plates	Each	1
Permanent Bench Marks, Type I	Each	1
Porous Granular Embankment	Cu Yd	35.1
Stone Riprap, Class A1	Ton	19.5

**GENERAL PLAN AND ELEVATION  
SINGLE 8'x2' PRECAST BOX CULVERT  
F.A.P. ROUTE 741 - SECTION (8,9,10)CR  
STATION 626+50.00, S.N. 074-8062  
CULVERT NO. 2**

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION S.N.074-8062 (CULVERT #2)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISD -			CONTRACT NO. 70800				
PLOT DATE = 10/19/2010		DATE -	REVISD -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.			





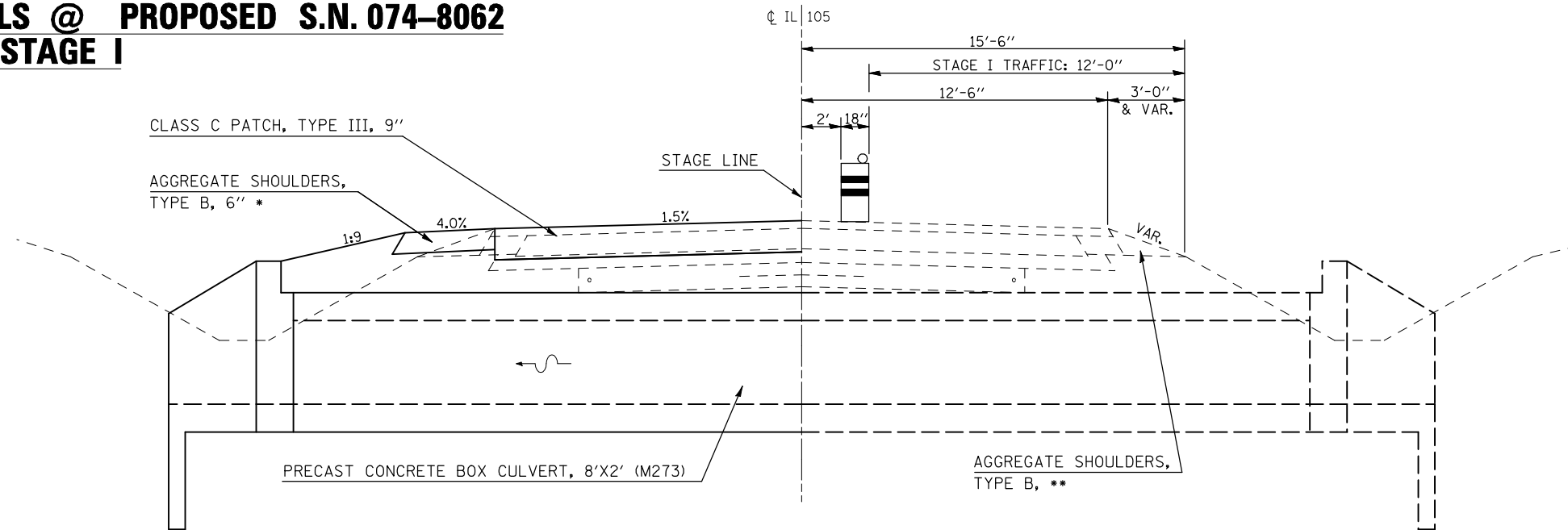
**BILL OF MATERIAL**

For Information Only  
(One End Section)

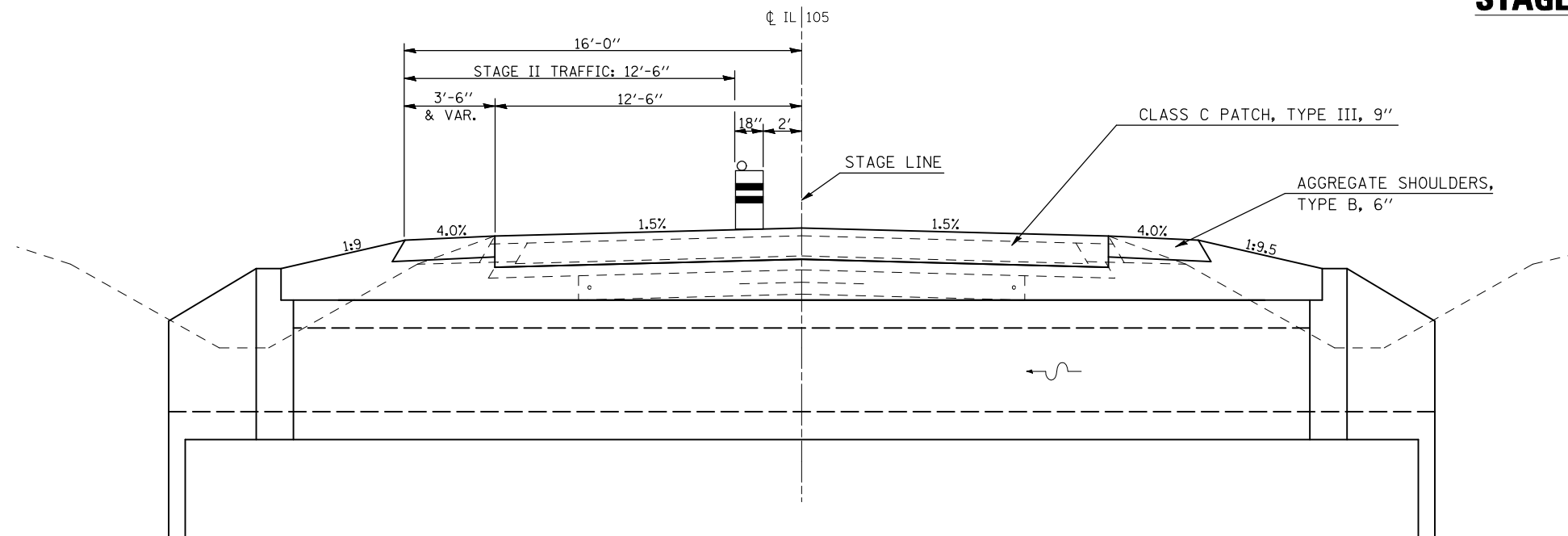
Bar	No.	Size	Length	Shape
h	4	#6	10'-8"	—
h <sub>1</sub>	8	#4	2'-7"	—
h <sub>2</sub>	8	#4	2'-0"	—
s or s <sub>1</sub>	10	#4	3'-10"	—
v	18	#5	3'-10"	—
Item	Unit	Total		
Concrete Box Culverts	Cu. Yd.	4.5		
Reinforcement Bars	Pound	187.0		
Welded Wire Fabric	Sq. Ft.	303.0		

**END SECTION DETAILS**  
**SINGLE 8'x2' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 741 - SECTION (8,9,10)CR**  
**STATION 626+50.00, S.N. 074-8062**  
**CULVERT NO. 2**

**TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8062**  
**STAGE I**



**TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8062**  
**STAGE II**



**GENERAL NOTES**

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 and STAGE CONSTRUCTED ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of AGGREGATE SHOULDERS, TYPE B, 6" and EARTH EXCAVATION based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. AGGREGATE SHOULDERS, TYPE B, 6" for Stage I may be completed at any time prior to Stage I. AGGREGATE SHOULDERS, TYPE B, 6" for Stage II should not be completed until the half-width culvert from Stage I has been constructed.
- \* 5. Replace previously constructed AGGREGATE SHOULDERS, TYPE B, 6" as needed when construction is completed.
- \*\* 6. Extra Quantities for AGGREGATE SHOULDERS, TYPE B are included in the plans, if needed, to build up the existing shoulder for STAGE I TRAFFIC.

A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME
STA. 626+50.00	701201	24 HRS (2) - 12 HR DAY SHIFTS

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2010	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL STAGING DETAILS**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	28
CONTRACT NO. 70800				
ILLINOIS FED. AID PROJECT				



BENCHMARK ELEVATION: 726.70' Chiseled square on the north headwall of existing A.R. box culvert. Station 833+02.60, 25.90' RT.

EXISTING STRUCTURE: A 2'x1.5' concrete box culvert was constructed in 1923 as part of Section 10 in Platt County. Each end was extended in 1960 as part of Section 8W-1,(9,10)W & 8RS-1,(9,10)RS. The existing structure is to be completely removed and replaced. Staged construction will be utilized to construct the new structure.

**GENERAL NOTES**

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The design reinforcement areas shall conform to those found in Table 1 of AASHTO M273 for an 8'x3' box section except the extension of the As1 bars into the top slab shall be equal to (23 inches + 2 longitudinal wire spaces).

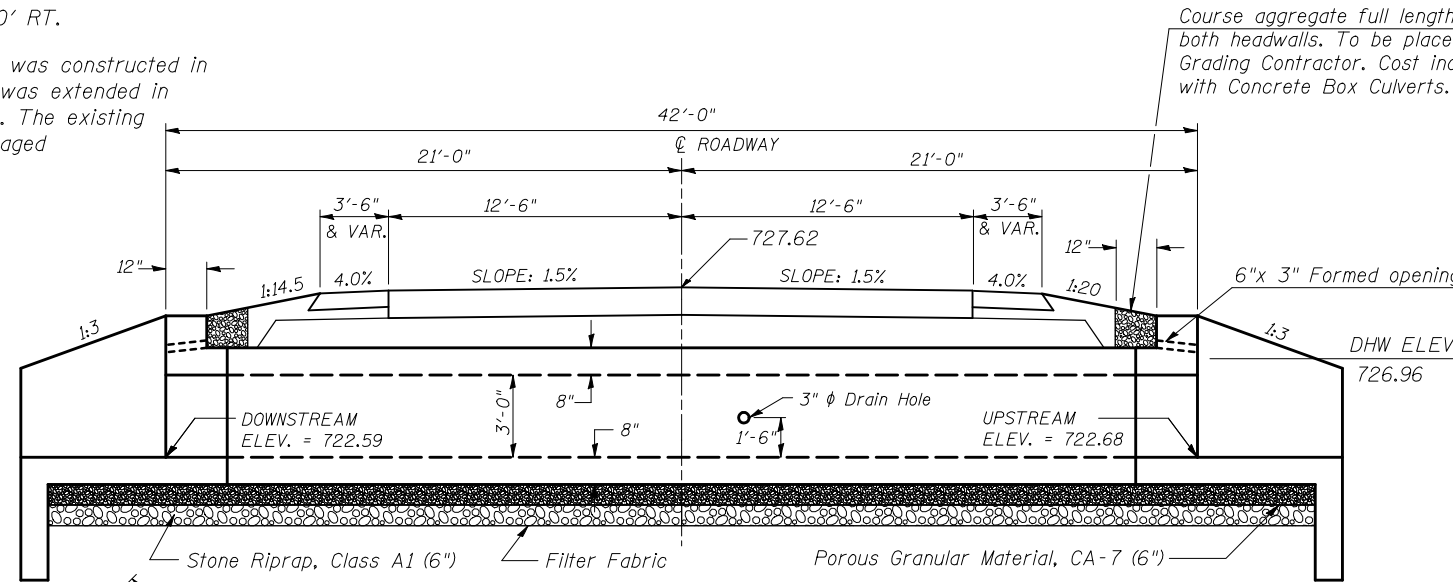
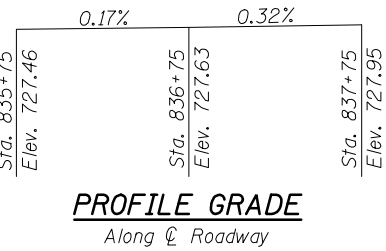
The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D and E-E on Sheet 2.

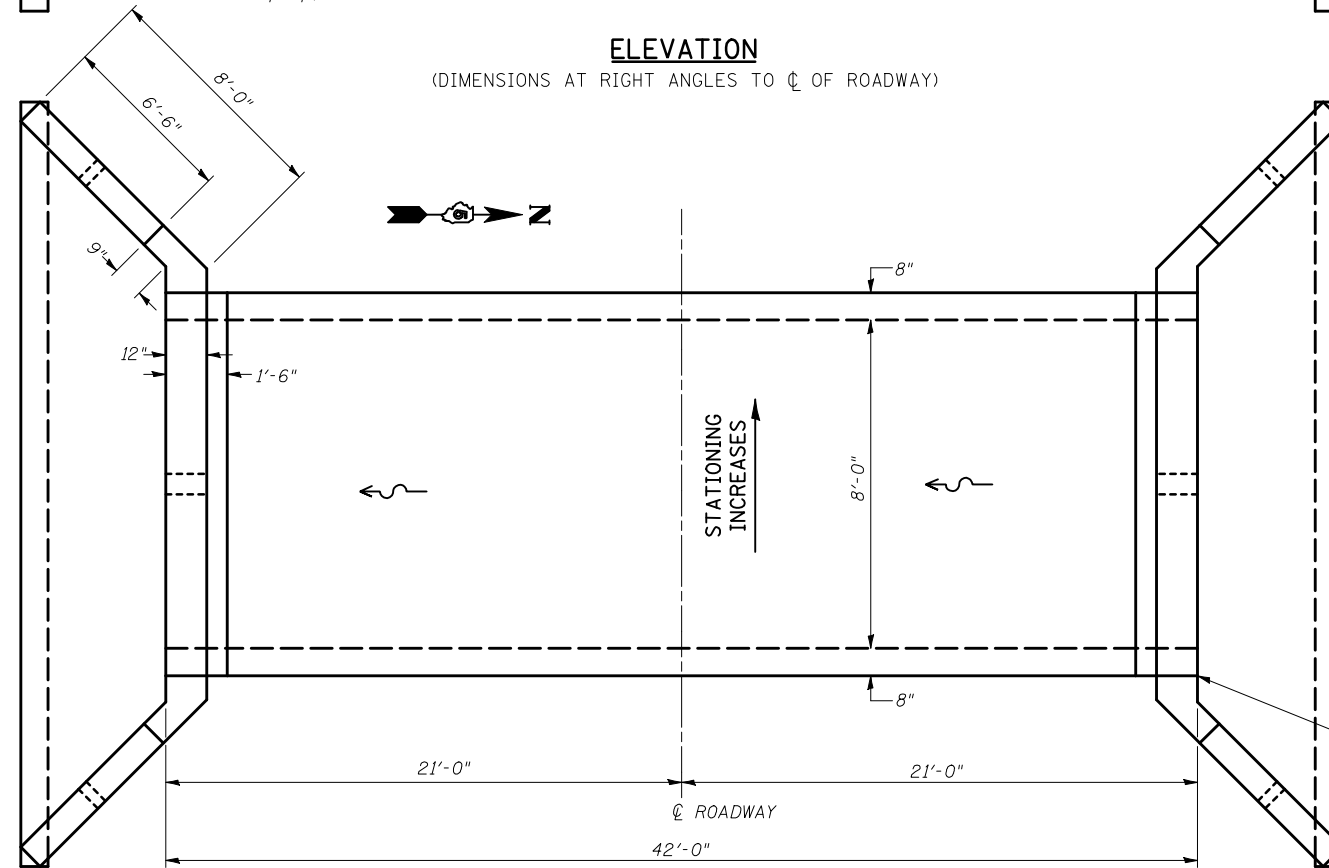
The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.



**ELEVATION**  
(DIMENSIONS AT RIGHT ANGLES TO  $\phi$  OF ROADWAY)



**PLAN**

Name Plate  
Permanent Bench Mark, Type I

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Removal of Existing Structures No. 3	Each	1
Precast Concrete Box Culvert 8'x3' (M273)	Foot	39
Box Culvert End Section, Culvert No. 3	Each	2
Name Plates	Each	1
Permanent Bench Marks, Type I	Each	1
Porous Granular Embankment	Cu.Yd.	36.1
Stone Riprap, Class A1	Ton	21.0

**GENERAL PLAN AND ELEVATION  
SINGLE 8'x3' PRECAST BOX CULVERT  
F.A.P. ROUTE 741 - SECTION (8,9,10)CR  
STATION 836+74.00 S.N. 074-8065  
CULVERT NO. 3**

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	719.68	719.59

**WATERWAY INFORMATION**

Drainage Area = 0.32 sq.mi. Low Grade Elev. 727.31 @ Sta. 834+42

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	108	3	24			Over	725.72	
Design	50	178	3	24			Over	726.96	
Base	100	209	3	24			Over	727.62	
Overtopping									
Max. Calc.	500	287	3	24			Over	Over	

10 year velocity through existing bridge = Unknown 10 year velocity through proposed bridge = 5.63 fps  
Note: Information provided utilizing USGS Method (2004-5103)

STATION 836+74.00  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 741 SEC. (8,9,10)CR  
LOADING HS 20  
STRUCTURE NO. 074-8065

**NAME PLATE**  
See Std. 515001

**INDEX OF SHEETS**

- General Plan and Elevation
- Box Culvert End Section Details
- Staging Details

**DESIGN SPECIFICATIONS**  
2002 AASHTO

**LOADING HS20-44**

Allow 50#/sq.ft. for future wearing surface

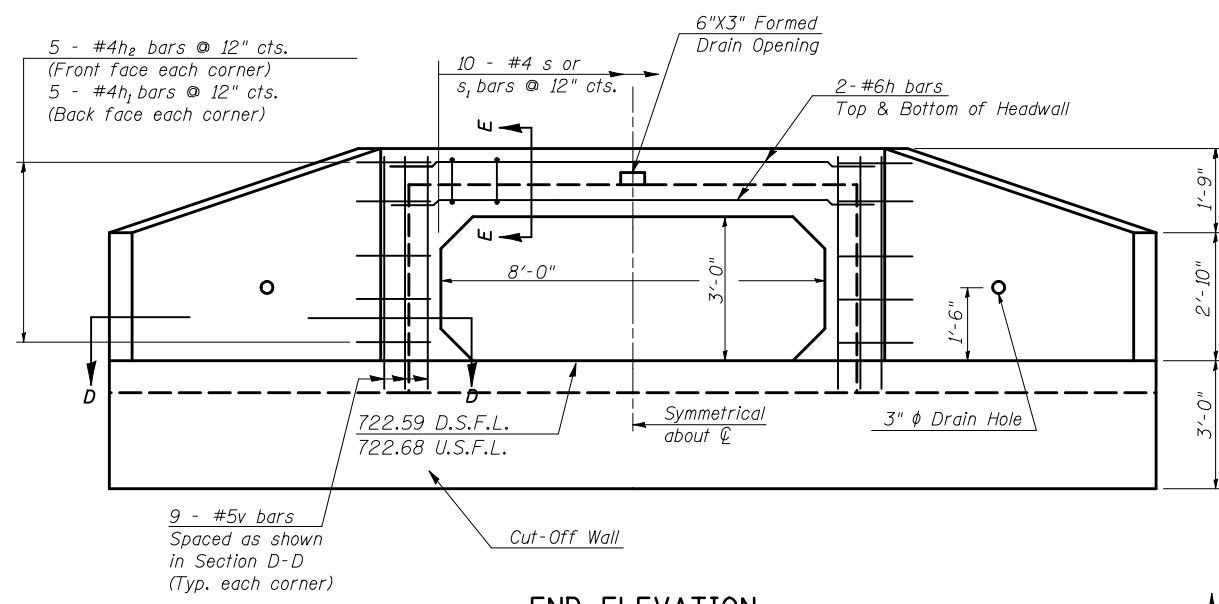
**DESIGN STRESSES**

**FIELD UNITS**

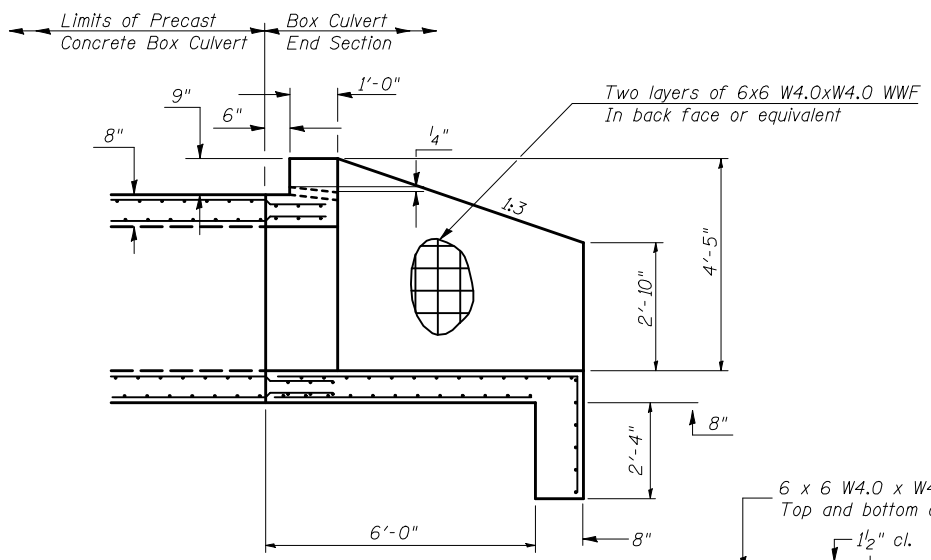
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

**PRECAST UNITS**

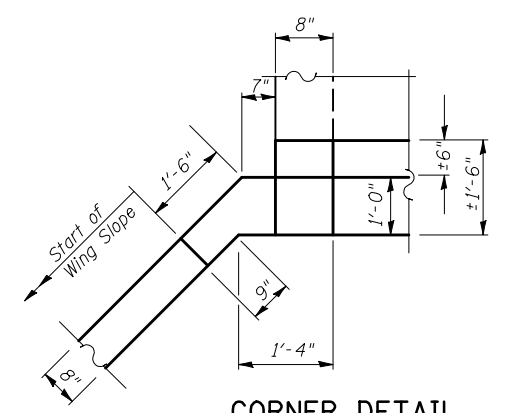
$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (welded wire fabric)



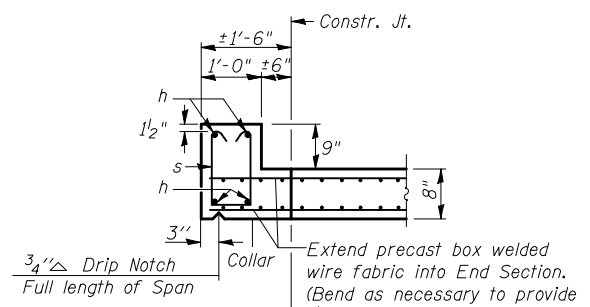
**END ELEVATION**



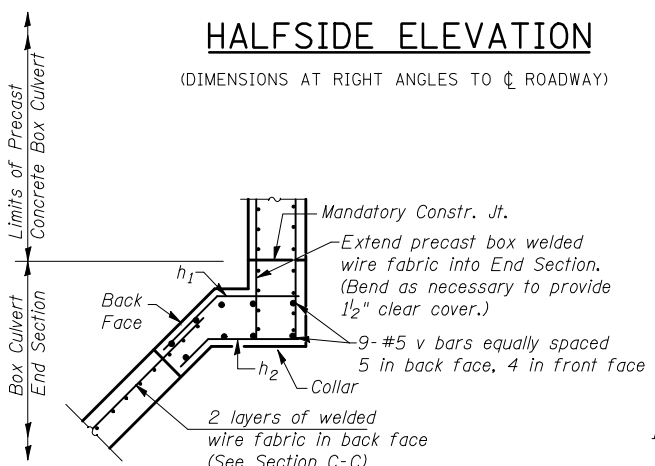
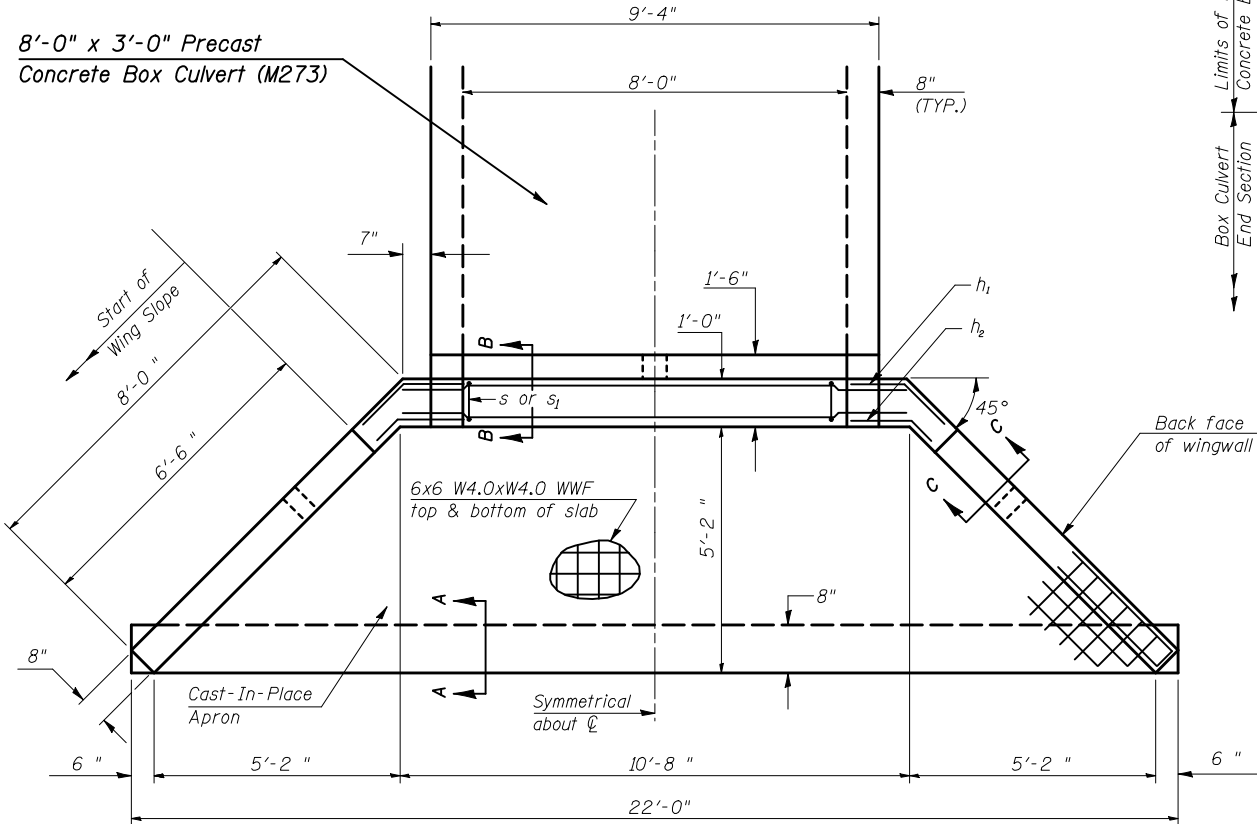
**HALFSIDE ELEVATION**  
 (DIMENSIONS AT RIGHT ANGLES TO  $\bar{C}$  ROADWAY)



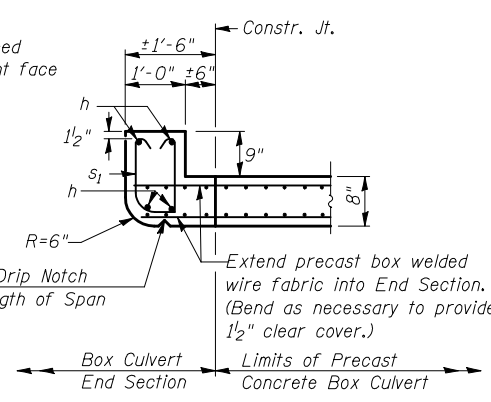
**CORNER DETAIL**  
 (Showing dimensions)



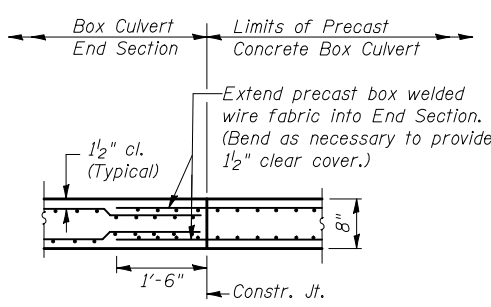
**SECTION E-E**  
 TOP SLAB / HEADWALL DOWNSTREAM END



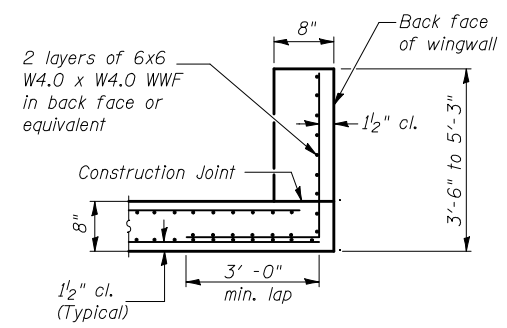
**SECTION D-D**  
 (Showing reinforcement)



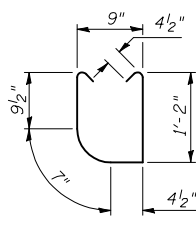
**SECTION E-E**  
 TOP SLAB / HEADWALL UPSTREAM END



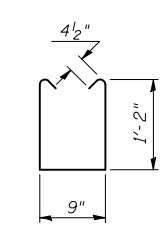
**SECTION B-B**  
 BOTTOM SLAB



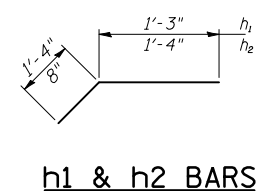
**SECTION C-C**  
 WINGWALLS



**s<sub>1</sub> BARS**  
 UPSTREAM END



**s BARS**  
 DOWNSTREAM END



**h<sub>1</sub> & h<sub>2</sub> BARS**

**BILL OF MATERIAL**  
 For Information Only  
 (One End Section)

Bar	No.	Size	Length	Shape
h	4	#6	10'-5"	—
h <sub>1</sub>	10	#4	2'-7"	—
h <sub>2</sub>	10	#4	2'-0"	—
s or s <sub>1</sub>	10	#4	3'-10"	U U
v	18	#5	4'-10"	—
Item	Unit	Total		
Concrete Box Culverts	Cu. Yd.	6.5		
Reinforcement Bars	Pound	210.0		
Welded Wire Fabric	Sq. Ft.	391.0		

**END SECTION DETAILS**  
**SINGLE 8'x3' PRECAST BOX CULVERT**  
**F.A.P. ROUTE 741 - SECTION (8,9,10)CR**  
**STATION 836+74.00, S.N. 074-8065**  
**CULVERT NO. 3**

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/19/2010		DATE -	REVISED -

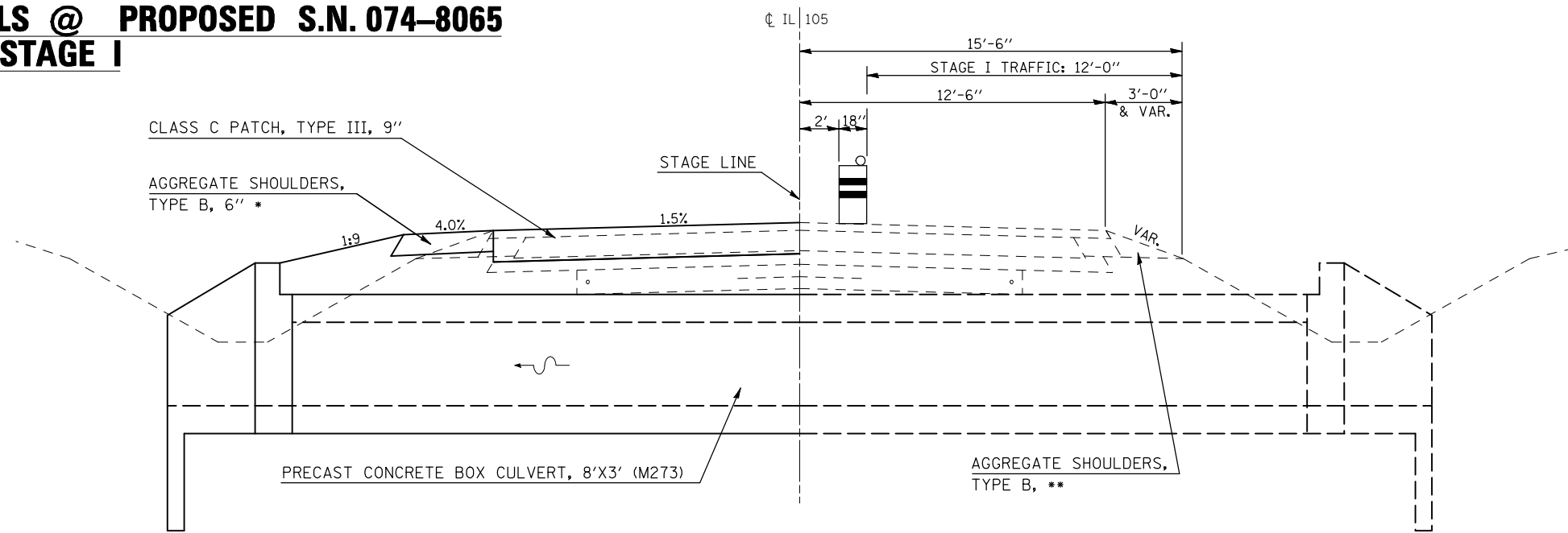
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTION DETAILS**  
**S.N. 074-8065 (CULVERT #3)**

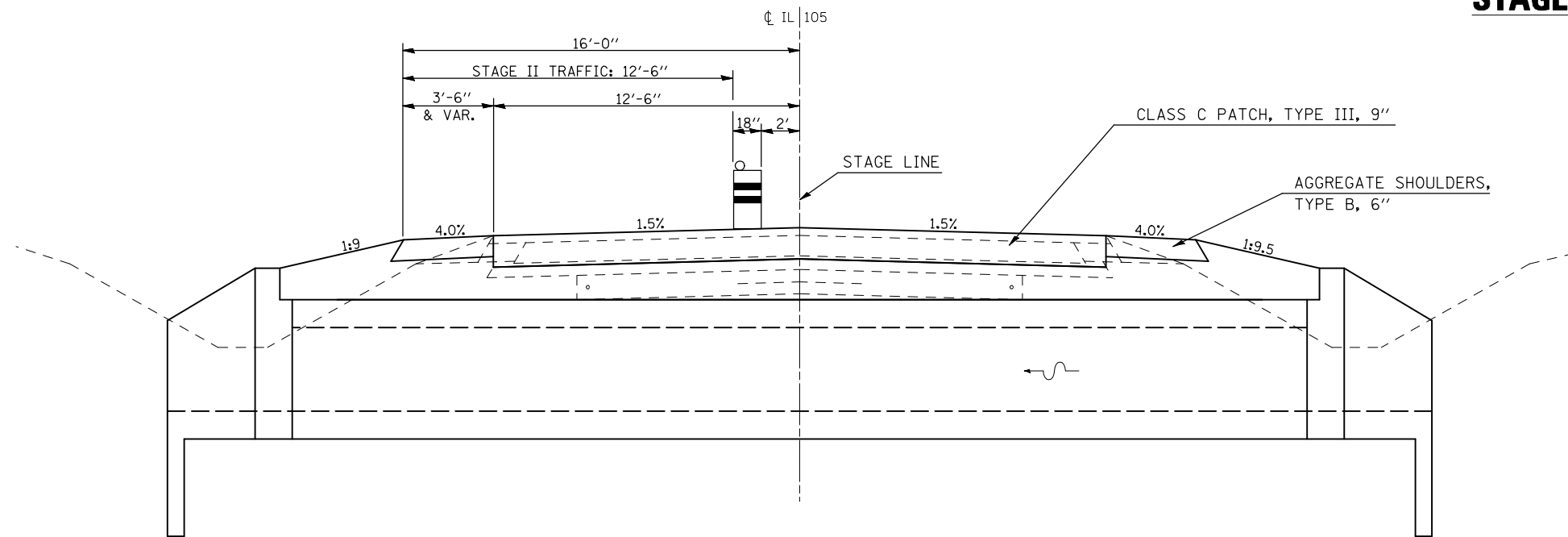
SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Platt	65	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	

**TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8065**  
**STAGE I**



**TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8065**  
**STAGE II**



**GENERAL NOTES**

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 and STAGE CONSTRUCTED ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of AGGREGATE SHOULDERS, TYPE B, 6" and EARTH EXCAVATION based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. AGGREGATE SHOULDERS, TYPE B, 6" for Stage I may be completed at any time prior to Stage I. AGGREGATE SHOULDERS, TYPE B, 6" for Stage II should not be completed until the half-width culvert from Stage I has been constructed.
- \*5. Replace previously constructed AGGREGATE SHOULDERS, TYPE B, 6" as needed when construction is completed.
- \*\*6. Extra Quantities for AGGREGATE SHOULDERS, TYPE B are included in the plans, if needed, to build up the existing shoulder for STAGE I TRAFFIC.

A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME
STA. 836+74.00	701201	24 HRS (2) - 12 HR DAY SHIFTS

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/19/2010	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL STAGING DETAILS**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	31
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	

BENCHMARK ELEV. 717.69' Chiseled square on the east headwall of S.N. 074-8029. Station 271+21.59, 32.01' RT.

EXISTING STRUCTURE: S.N. 074-8029, a double 36"x73' CMP culvert was constructed in 1960 as part of Section 8W-1,(9,10)W & 8RS-1,(9,10)RS in Piatt County. The existing structure is to be completely removed and replaced. Staged construction will be utilized to construct the new structure.

Course aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

### GENERAL NOTES

All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. (IL Modified). See Special Provisions.

The 6" Porous Granular Material required per Art. 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".

End Sections will be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in Section 540 of the Standard Specifications.

Class SI Concrete shall be used throughout.

Concrete, Rebar, and Welded Wire Fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.

Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.

The design reinforcement areas shall conform to those found in Table 1 of AASHTO M273 for a 12'x4' box section except the extension of the As1 bars into the top slab shall be equal to (23 inches + 2 longitudinal wire spaces).

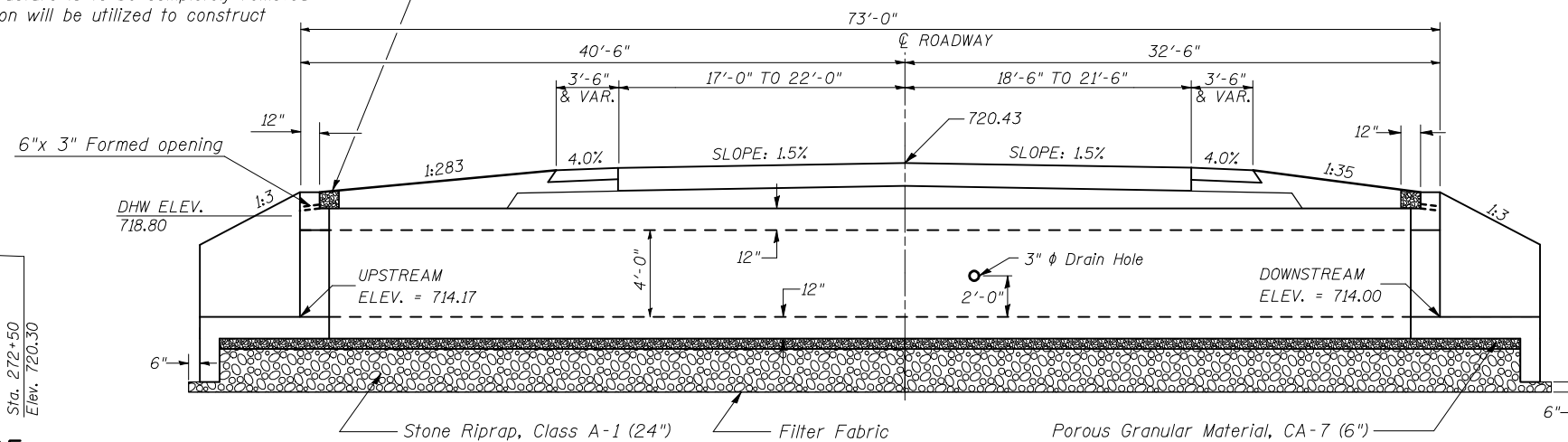
The box culvert end section may be built in the field or using precast construction methods. If the contractor elects to use precast construction methods, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval. See Special Provisions.

The ends of the precast box sections adjacent to the end section shall be formed without the male and female shapes specified in Article 8.1 of AASHTO M273. See Sections B-B, D-D and E-E on Sheet 2.

The design fill height for this box is less than 2 feet. The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M 273.

The joints between precast box sections shall be sealed and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.



### PROFILE GRADE

Along  $\phi$  Roadway

STATION 271+22.00  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 741 SEC. (8,9,10)CR  
LOADING HS 20  
STRUCTURE NO. 074-8315

### NAME PLATE

See Std. 515001

### INDEX OF SHEETS

1. General Plan and Elevation
2. Box Culvert End Section Details
3. Staging Details
4. Soil Boring Log

### DESIGN SPECIFICATIONS

2002 AASHTO

### LOADING HS20-44

Allow 50#/sq.ft. for future wearing surface

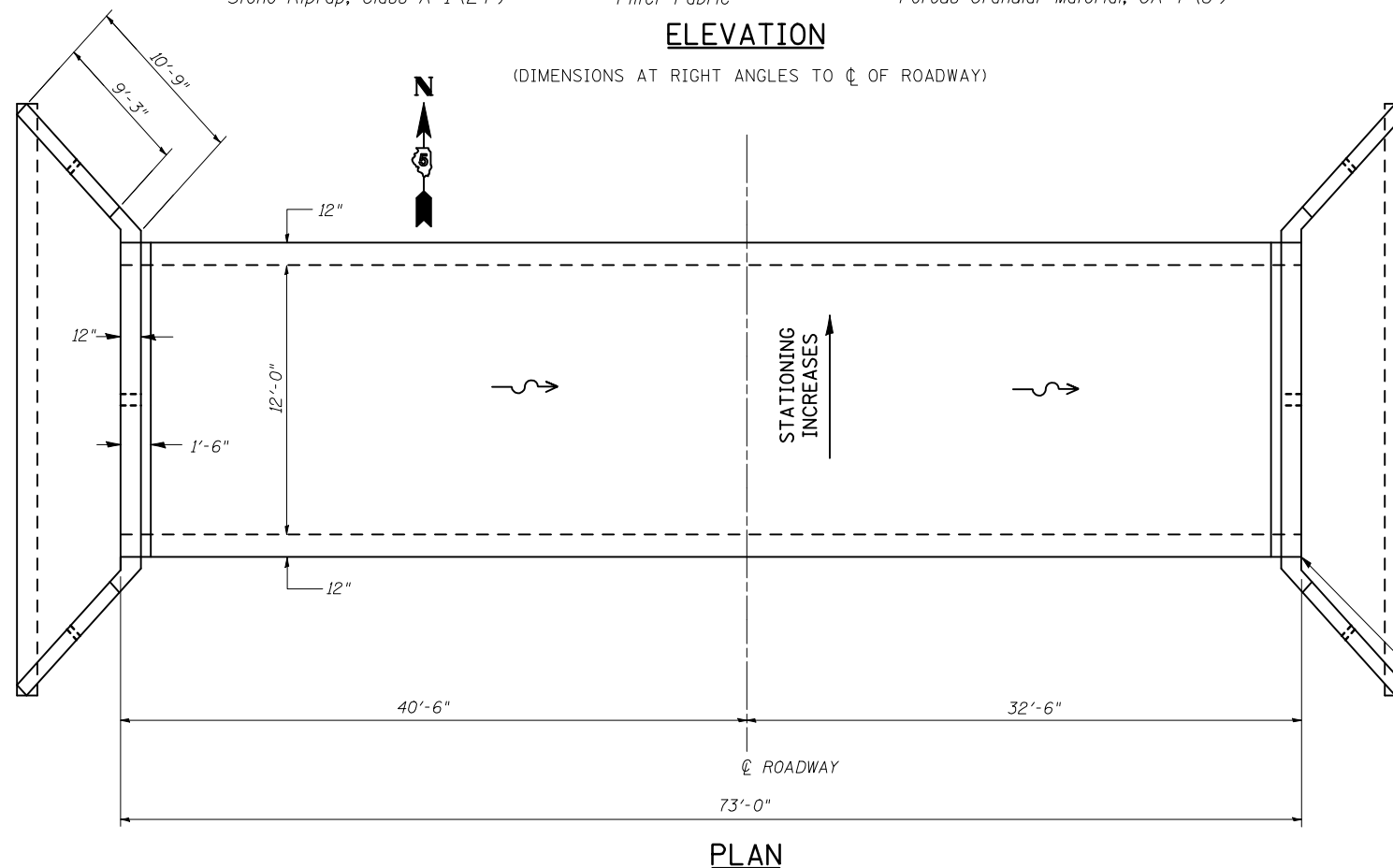
### DESIGN STRESSES

#### FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

#### PRECAST UNITS

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (welded wire fabric)



### PLAN

### WATERWAY INFORMATION

Drainage Area = 0.56 sq. mi. Low Grade Elev. 719.91 @ Sta. 274+00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
	10	186	14	42			722.6 717.6
Design	50	310	14	48			732.4 718.8
Base	100	366	14	48			Over 719.3
Overtopping							
Max. Calc.	500	504	14	48			Over Over

10 year velocity through existing bridge = 8.82 fps 10 year velocity through proposed bridge = 5.20 fps

Note: Information provided utilizing USGS Method (2004-5103)

### DESIGN SCOUR ELEVATION TABLE

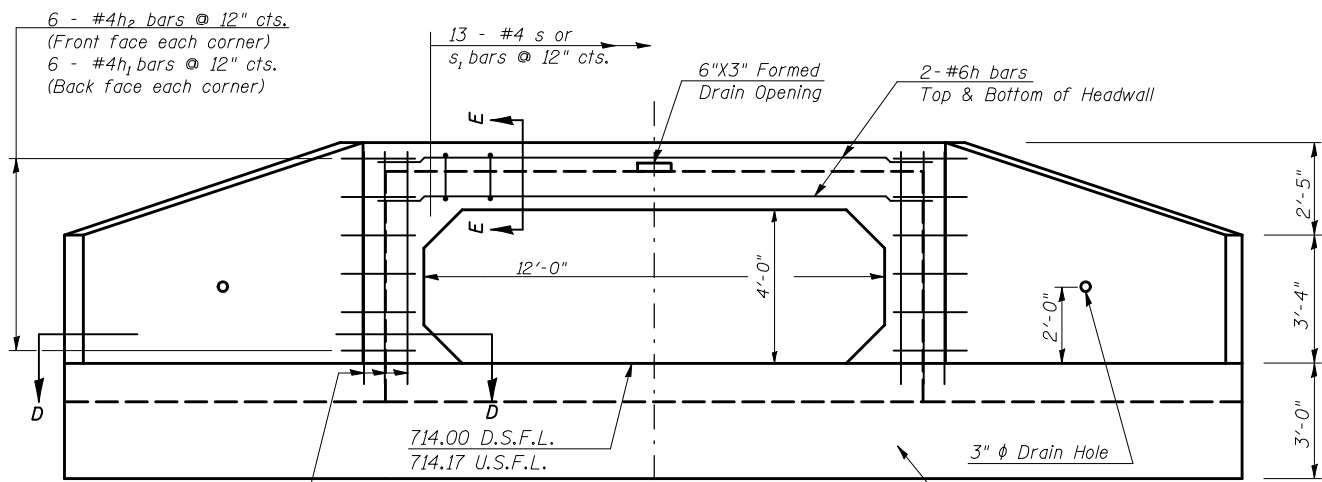
Design Scour Elevation (ft.)	Upstream	Downstream
	711.17	711.00

### TOTAL BILL OF MATERIAL

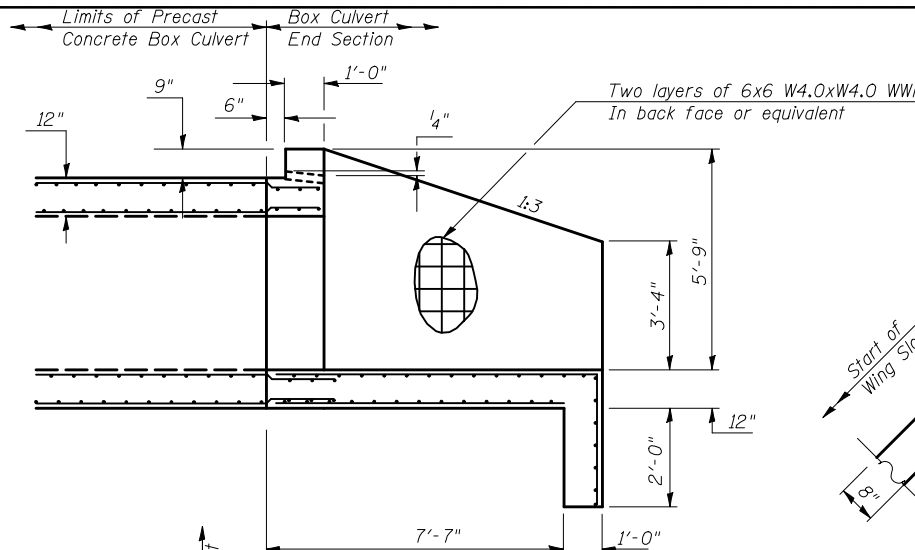
Item	Unit	Total
Removal of Existing Structures No. 4	Each	1
Precast Concrete Box Culvert 12'x4' (M273)	Foot	70
Box Culvert End Section, Culvert No. 4	Each	2
Name Plates	Each	1
Permanent Bench Marks, Type 1	Each	1
Porous Granular Embankment	Cu.Yd.	146.3
Stone Riprap, Class A1	Ton	187.1

### GENERAL PLAN AND ELEVATION SINGLE 12'x4' PRECAST BOX CULVERT F.A.P. ROUTE 741 - SECTION (8,9,10)CR STATION 271+22.00 S.N. 074-8315 CULVERT NO. 4

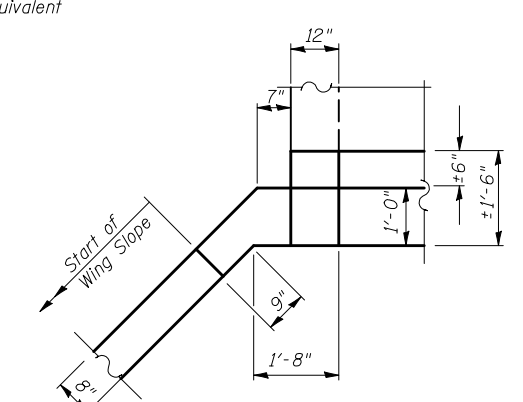
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ct:\pw\work\p\dot\hennessdm\d0184799\0570800-sh1-Details.dgn		DRAWN -	REVISD -			741	(8,9,10)CR	Piatt	65	32
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISD -			CONTRACT NO. 70800				
PLOT DATE = 10/19/2010		DATE -	REVISD -			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.			



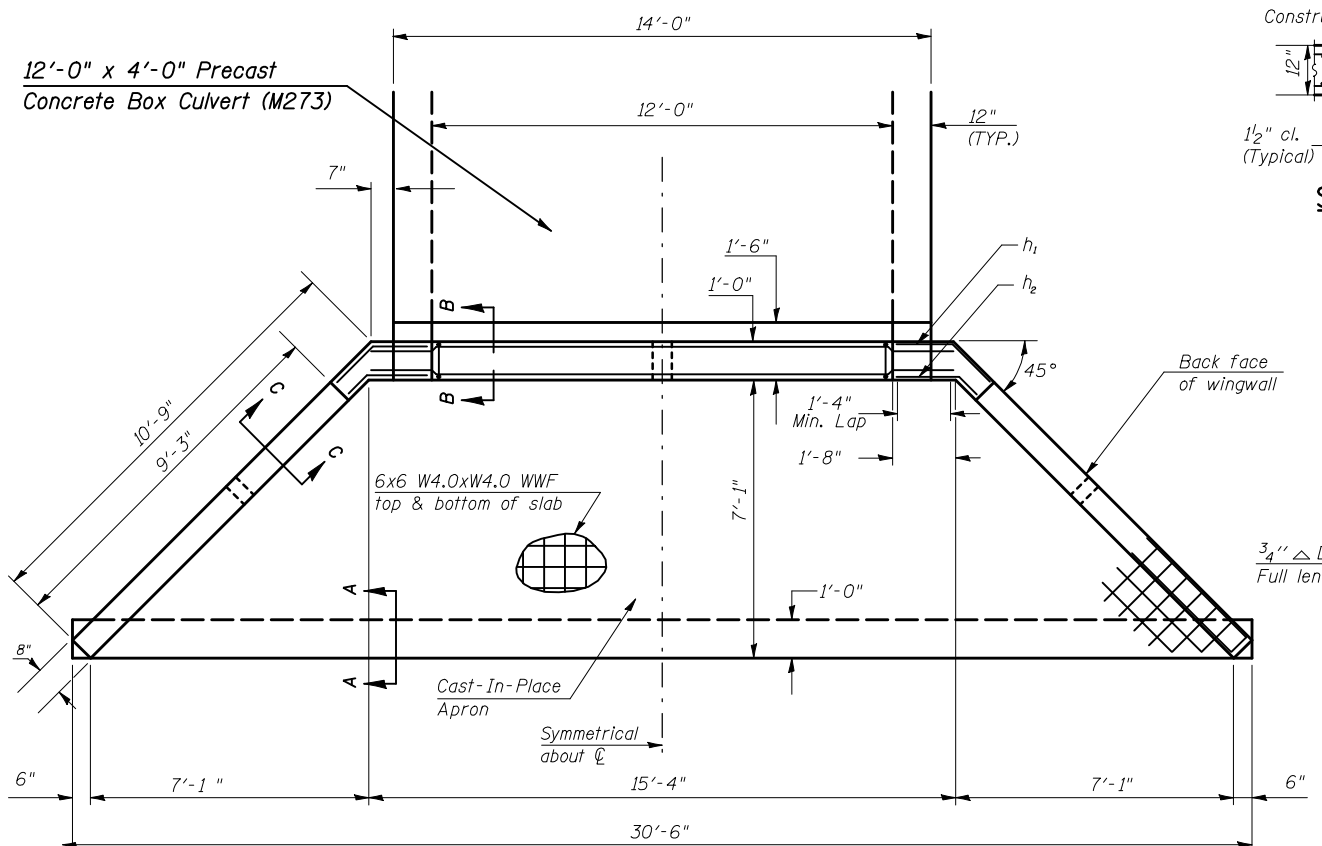
**END ELEVATION**



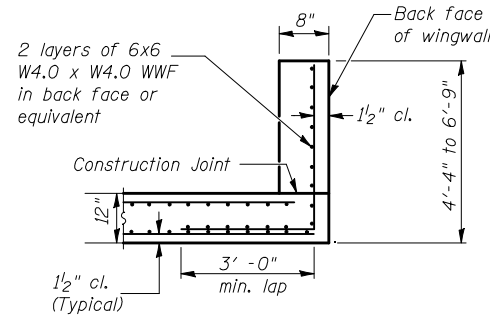
**HALFSIDE ELEVATION**



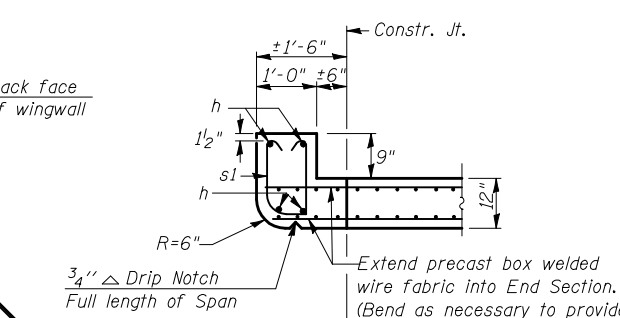
**CORNER DETAIL**  
(Showing dimensions)



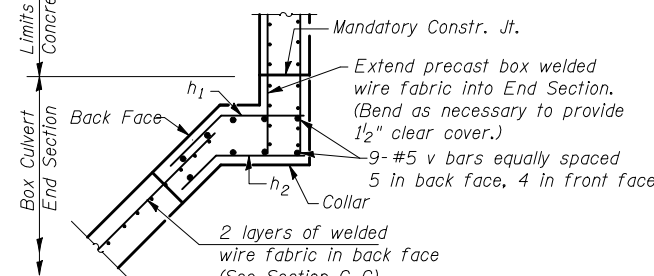
**PLAN**



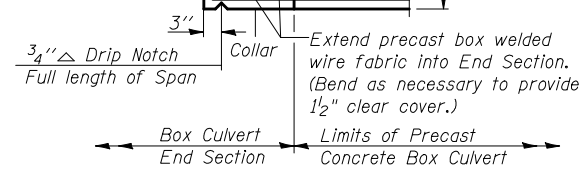
**SECTION C-C**  
WINGWALLS



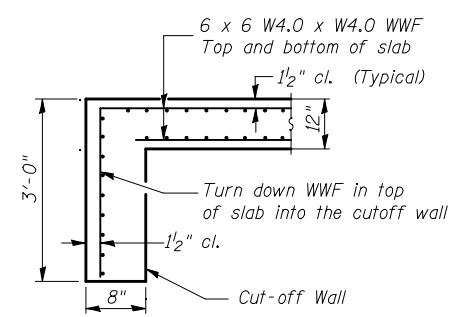
**SECTION E-E**  
TOP SLAB / HEADWALL UPSTREAM END



**SECTION D-D**



**SECTION E-E**  
TOP SLAB / HEADWALL DOWNSTREAM END

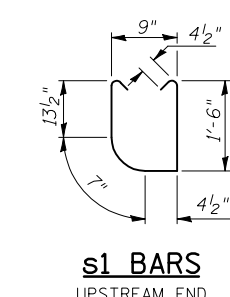


**SECTION A-A**  
DOWNSTREAM END

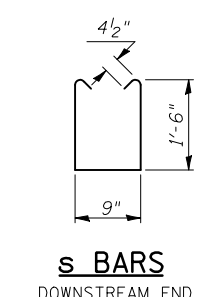
**BILL OF MATERIAL**

For Information Only  
(One End Section)

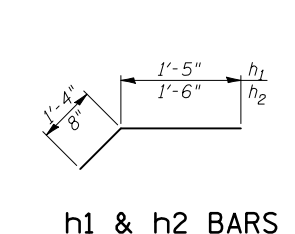
Bar	No.	Size	Length	Shape
h	4	#6	15'-1"	—
h <sub>1</sub>	12	#4	2'-9"	—
h <sub>2</sub>	12	#4	2'-2"	—
s or s <sub>1</sub>	13	#4	4'-6"	⌞
v	18	#5	6'-6"	—
Item		Unit	Total	
Concrete Box Culverts		Cu. Yd.	15.5	
Reinforcement Bars		Pound	291.0	
Welded Wire Fabric		Sq. Ft.	718.0	



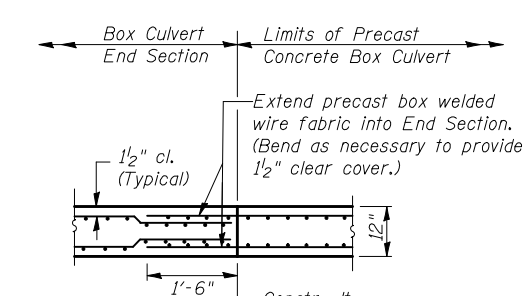
**s1 BARS**  
UPSTREAM END



**s BARS**  
DOWNSTREAM END



**h1 & h2 BARS**



**SECTION B-B**  
BOTTOM SLAB

**END SECTION DETAILS**  
SINGLE 12'x4' PRECAST BOX CULVERT  
F.A.P. ROUTE 741 - SECTION (8,9,10)CR  
STATION 271+22.00 S.N. 074-8315  
CULVERT NO. 4

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/19/2010		DATE -	REVISED -

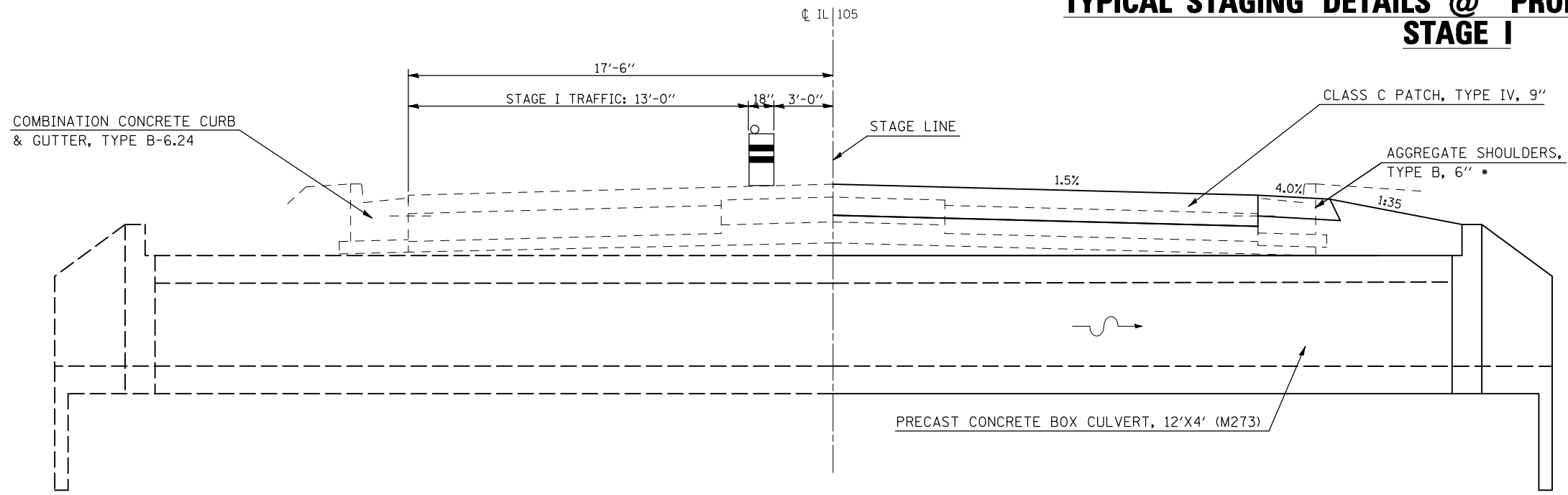
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTION DETAILS**  
**S.N. 074-8315 (CULVERT #4)**

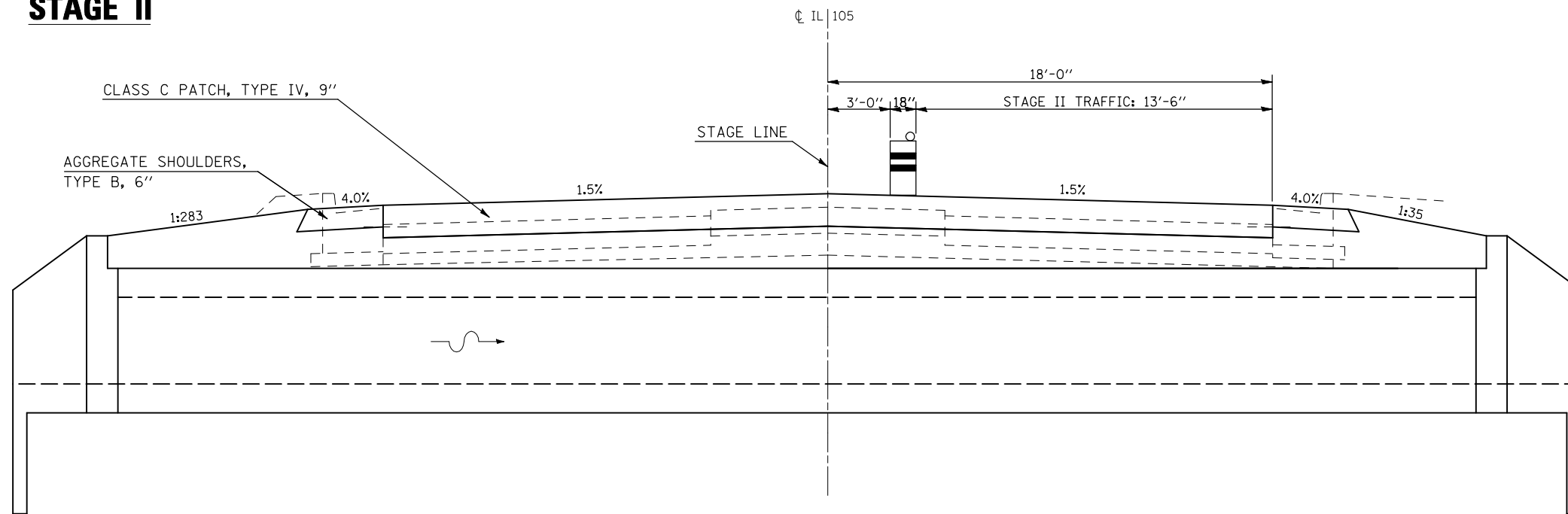
SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Platt	65	33
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

## TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8315 STAGE I



## TYPICAL STAGING DETAILS @ PROPOSED S.N. 074-8315 STAGE II



GENERAL NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 and STAGE CONSTRUCTED ACROSS ROAD STRUCTURES for additional information.
2. The Engineer may reduce or eliminate lengths or locations of AGGREGATE SHOULDERS, TYPE B, 6" and EARTH EXCAVATION based on field conditions.
3. Construct downstream end of A.R. culvert first.
4. AGGREGATE SHOULDERS, TYPE B, 6" for Stage I may be completed at any time prior to Stage I. AGGREGATE SHOULDERS, TYPE B, 6" for Stage II should not be completed until the half-width culvert from Stage I has been constructed.
- 5. Replace previously constructed AGGREGATE SHOULDERS, TYPE B, 6" as needed when construction is completed.
- 6. Extra Quantities for AGGREGATE SHOULDERS, TYPE B are included in the plans, if needed, to build up the existing shoulder for STAGE I TRAFFIC.

A.R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME
STA. 271+22.00	701201	24 HRS (2) - 12 HR DAY SHIFTS

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PLOT DATE = 10/19/2010	DATE -	CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL STAGING DETAILS**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	34
CONTRACT NO. 70800				
ILLINOIS FED. AID PROJECT				



Illinois Department  
of Transportation  
Division of Highways  
IDOT - Region 5/Dist 5

### SOIL BORING LOG

Page 1 of 1  
Date 4/5/10

ROUTE FAP 741 (IL 105) DESCRIPTION Box Culvert 3 Miles South of Cerro Gordo on IL 105 LOGGED BY CNA

SECTION (8,9,10)CR LOCATION SW, SEC. 11, TWP. 16N, RNG. 4E, 3rd PM GPS:

COUNTY PIATT DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	(ft)	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
074-8315 (Prop.)	271+22	1 NE Boring	271+24	28.0 ft Rt.	719.3						725.4	714.1				
Black Silty Clay					719.3											
					718.3											
Black/Gray Silty Clay Loam (Fill)							2									
							2	1.2		27						
					714.3	-8	3	B								
Brown/Gray Mottled Silty Clay Loam					718.3											
Brown Sandy Clay Loam Till							3									
							2	0.2		24						
							1	B								
							1									
					709.3	-10	3	B		19						
Gray Clay Loam Till																
(No Sample Obtained)							3									
							7									
							10									
							5									
							8	5.2		9						
							9	B								
							6									
							8	4.7		11						
					699.3	-20	10	B								

End of Boring  
An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
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  
IDOT - Region 5/Dist 5

### SOIL BORING LOG

Page 1 of 1  
Date 4/5/10

ROUTE FAP 741 (IL 105) DESCRIPTION Box Culvert 3 Miles South of Cerro Gordo on IL 105 LOGGED BY CNA

SECTION (8,9,10)CR LOCATION SE, SEC. 10, TWP. 16N, RNG. 4E, 3rd PM GPS:

COUNTY PIATT DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	(ft)	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Hrs.
074-8315 (Prop.)	271+22	2 NW Boring	271+24	32.0 ft Lt.	719.7						725.4	714.1				
Black Silty Clay Loam					719.7											
					718.7											
Black/Gray Silty Clay Loam (Fill)							2									
							2	1.2		29						
					714.7	-5	3	B								
Brown Wet Sand Loam with Small Gravel							1									
					712.7	▼	1	0.1								
Brown Mottled Silty Clay Loam to Clay Loam (Weathered Till)							2	E								
					710.7		1									
Gray Clay Loam Till							1	0.4		26						
							2	B								
							1									
							4	2.1		12						
							6	B								
							2									
							4	1.9		14						
					704.7	-15	7	B								
End of Boring																

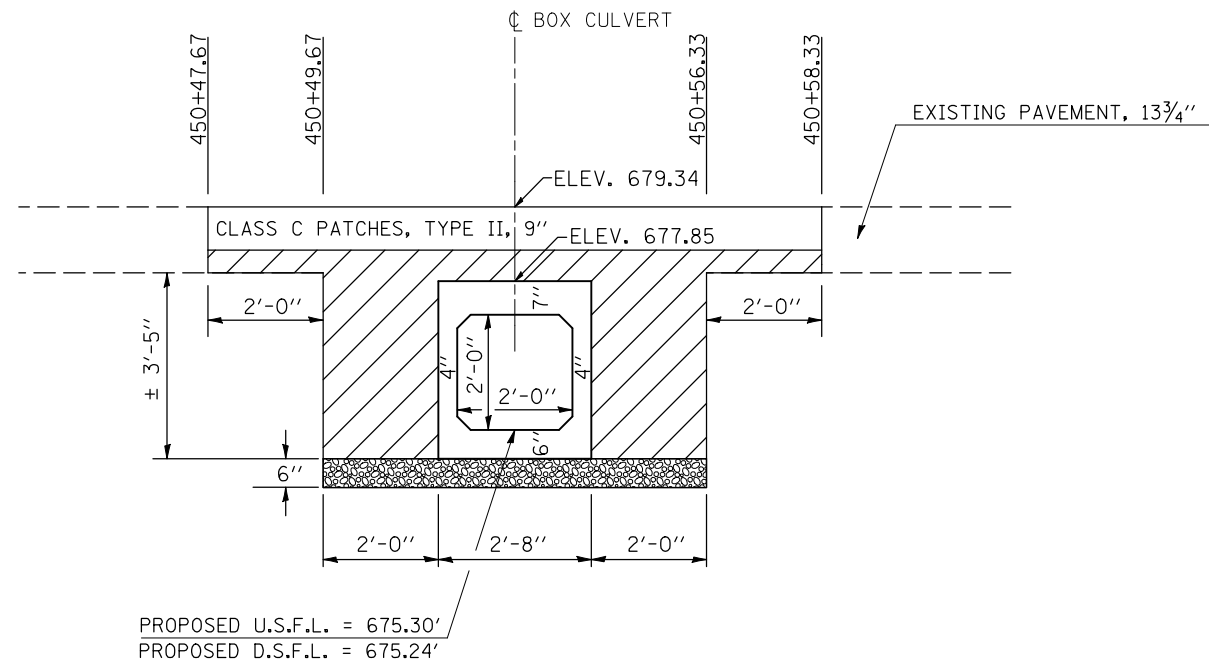
End of Boring  
An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.  
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME =	USER NAME = hennsdm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SOIL BORING LOGS S.N. 074-8315 (CULVERT #4)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p1dot\hennsdm\d0184799\DS70800-sh1-b1og.dgn		DRAWN -	REVISED -					741	(8,9,10)CR	PIATT	65	35
PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -								CONTRACT NO. 70800	
PLOT DATE = 10/20/2010		DATE -	REVISED -							ILLINOIS FED. AID PROJECT		

# POROUS GRANULAR EMBANKMENT DETAILS

## CULVERT NO. 1, STATION 450 + 53.00



### GENERAL NOTES

#### STONE RIPRAP, CLASS A1

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE, RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

#### POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

WORK SHOWN IN DETAIL SHALL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

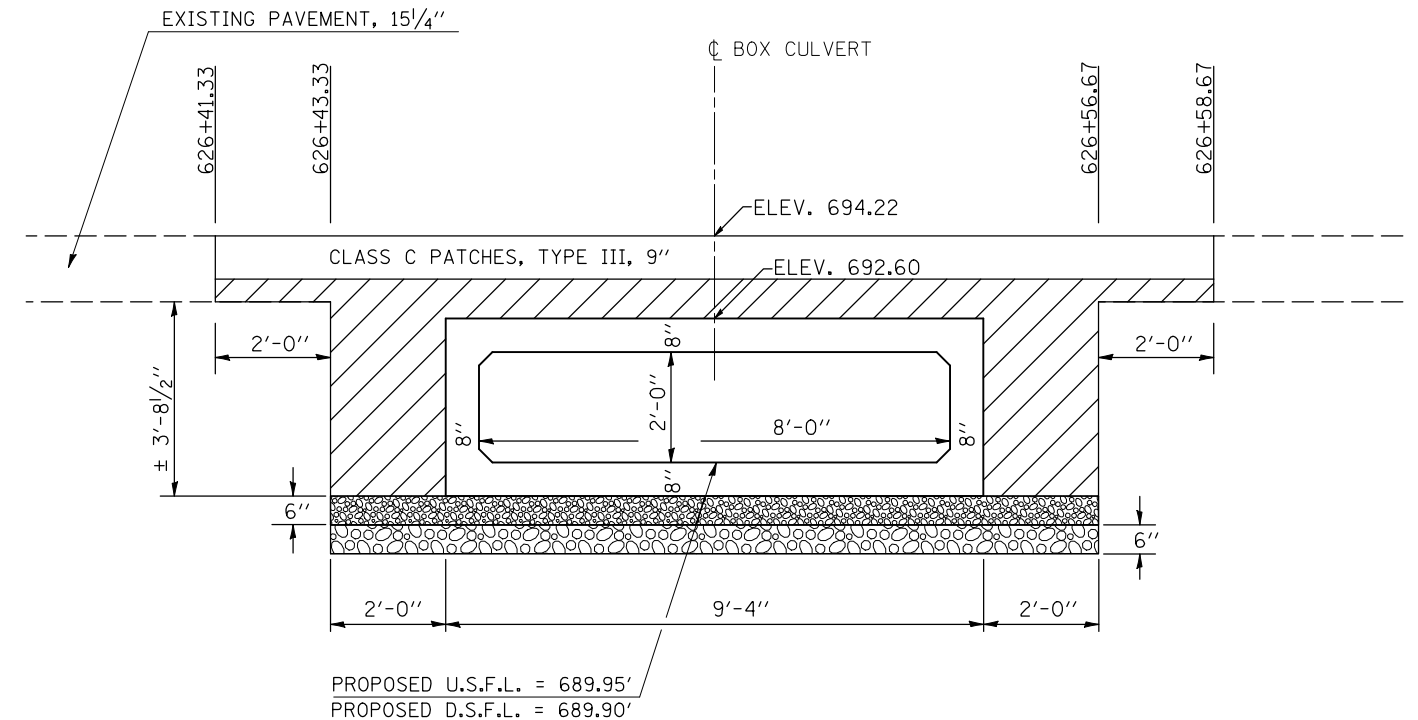
THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS.

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) INCLUDED WITH PRECAST BOX CULVERT ITEMS

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YDS	25.1

# POROUS GRANULAR EMBANKMENT DETAILS

## CULVERT NO. 2, STATION 626 + 50.00 S.N. 074-8062



### GENERAL NOTES

#### STONE RIPRAP, CLASS A1

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE, RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

#### POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

WORK SHOWN IN DETAIL SHALL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS.

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) INCLUDED WITH PRECAST BOX CULVERT ITEMS
	STONE RIPRAP, CLASS A1

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YDS	35.1
STONE RIPRAP, CLASS A1	TONS	19.5

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
ct:\pw\work\p\dot\hennessdm\d0184799\0570800-sh1-Details.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/20/2010		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POROUS GRANULAR EMBANKMENT DETAILS  
FOR CULVERT NO. 1 & 2

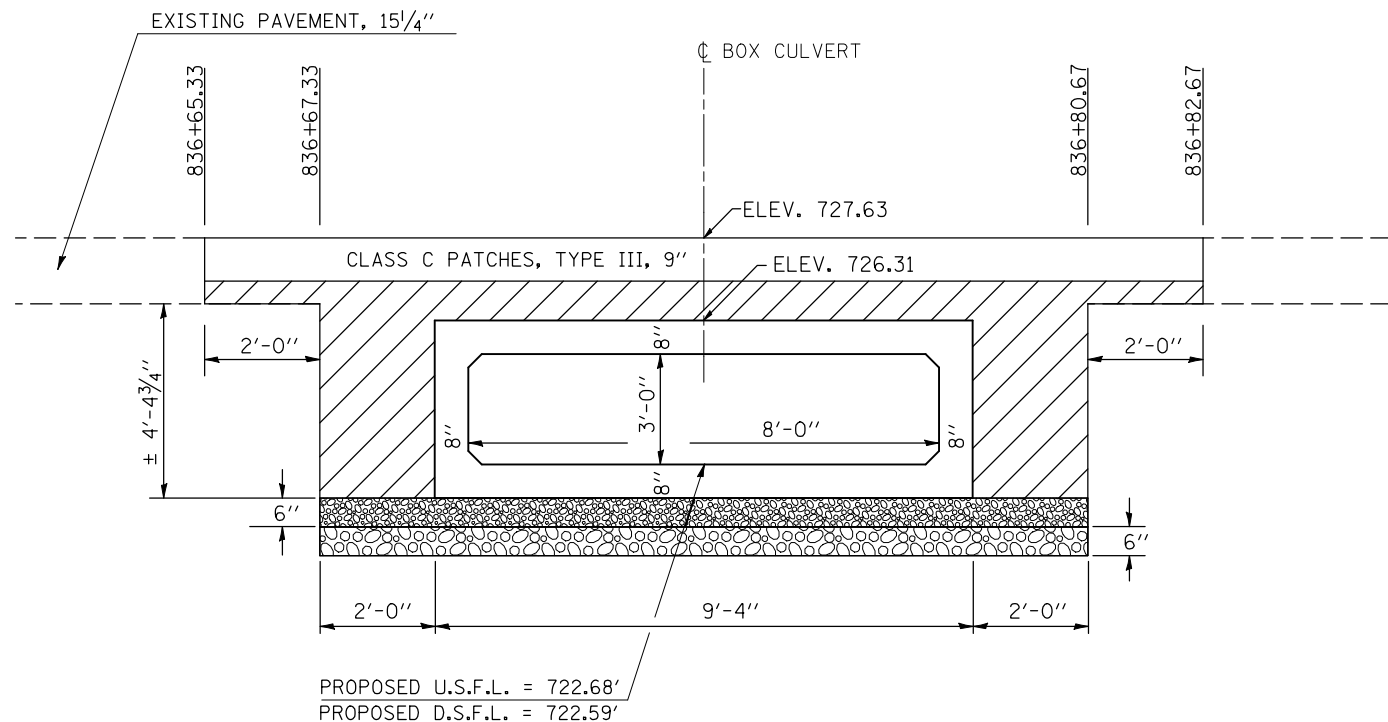
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Pigg	65	36
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



# POROUS GRANULAR EMBANKMENT DETAILS

## CULVERT NO. 3, STATION 836 + 74.00 S.N. 074-8065



### GENERAL NOTES

#### STONE RIPRAP, CLASS A1

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE, RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) INCLUDED WITH PRECAST BOX CULVERT ITEMS
	STONE RIPRAP, CLASS A1

#### POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

WORK SHOWN IN DETAIL SHALL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

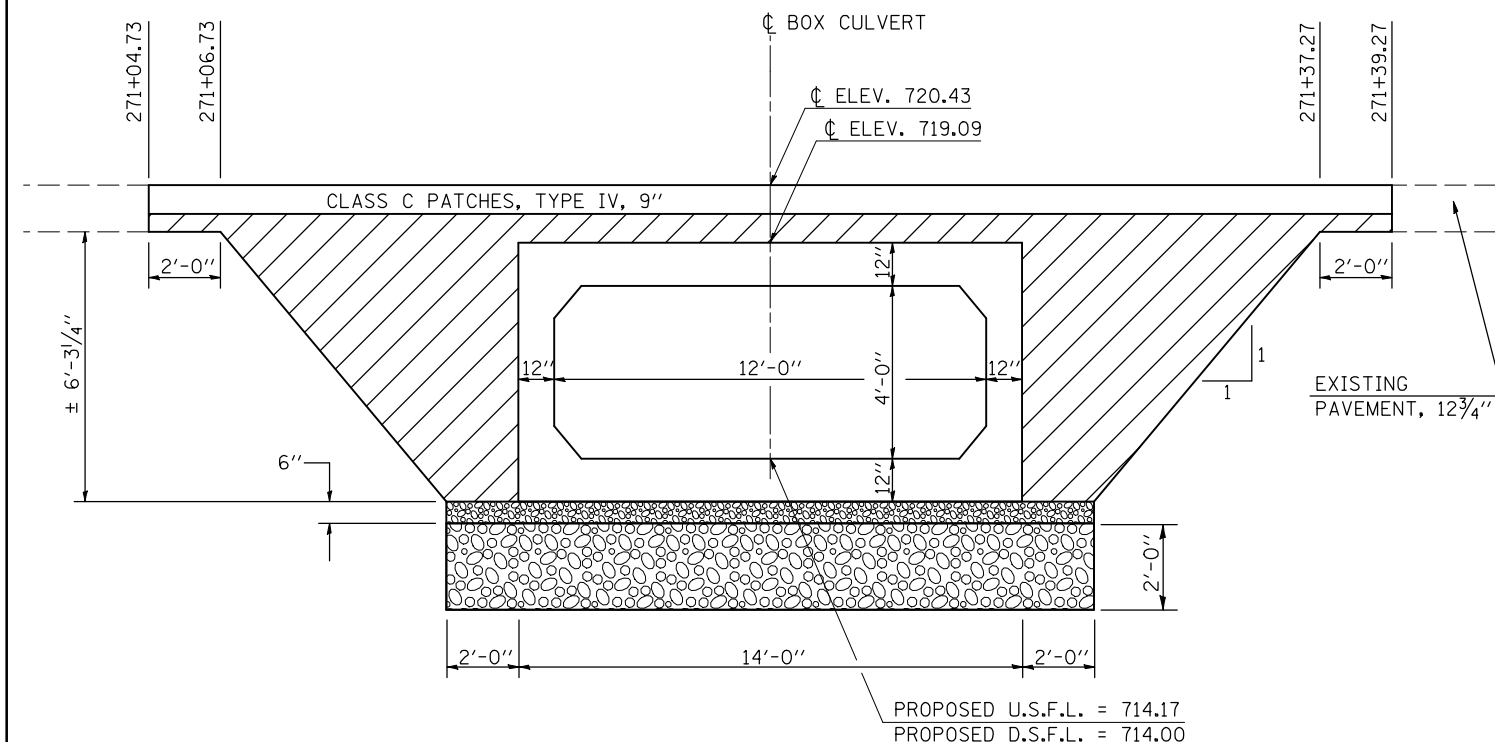
THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS.

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YDS	36.1
STONE RIPRAP, CLASS A1	TONS	21.0

# POROUS GRANULAR EMBANKMENT DETAIL

## CULVERT NO. 4, STATION 271 + 22.00 S.N. 074-8315



### GENERAL NOTES

#### STONE RIPRAP, CLASS A1

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE, RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF THE UNSUITABLE MATERIAL UNDER THE STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

LEGEND	
	POROUS GRANULAR EMBANKMENT (CA-6)
	POROUS GRANULAR MATERIAL (CA-7) INCLUDED WITH PRECAST BOX CULVERT ITEMS
	STONE RIPRAP, CLASS A1

#### POROUS GRANULAR EMBANKMENT

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

WORK SHOWN IN DETAIL SHALL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR POROUS GRANULAR EMBANKMENT.

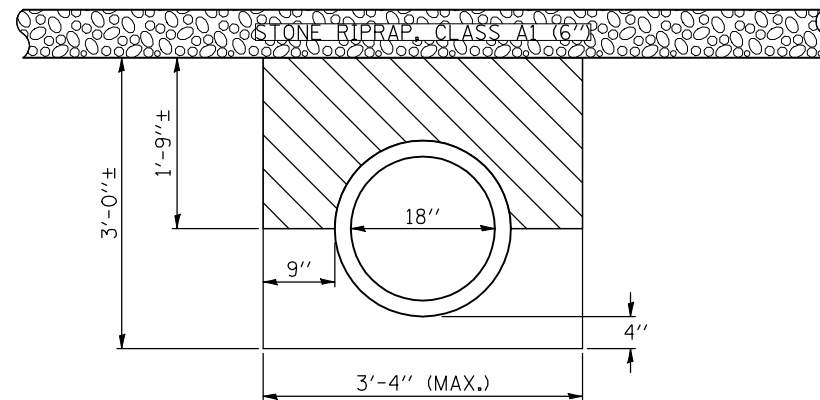
THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE CONSIDERED AS INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND BOX CULVERT END SECTIONS.

BILL OF MATERIAL		
ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YDS	146.3
STONE RIPRAP, CLASS A1	TONS	187.1

# POROUS GRANULAR EMBANKMENT DETAIL

## STORM SEWER, SPECIAL 18"

### STATION 836 + 68.00



PAY LIMITS OF POROUS GRANULAR EMBANKMENT (CA-6) = 6.8 CU.YD.

POROUS GRANULAR BACKFILL SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER.

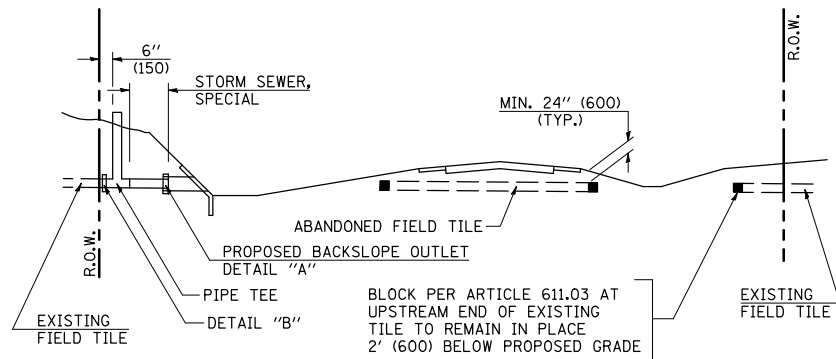
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/20/2010		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**POROUS GRANULAR EMBANKMENT DETAIL**

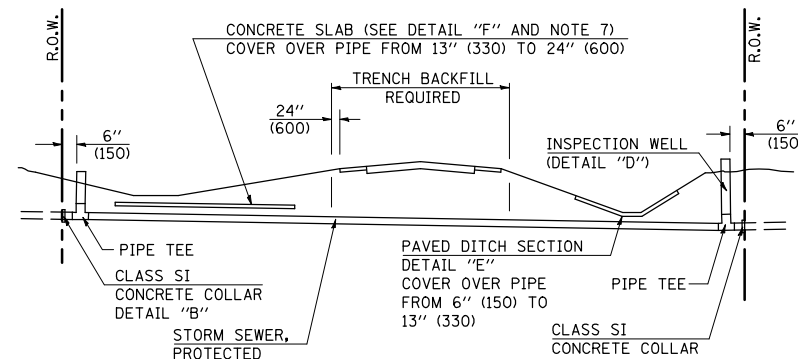
SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	Pigg	65	38
CONTRACT NO. 70800				
ILLINOIS FED. AID PROJECT				



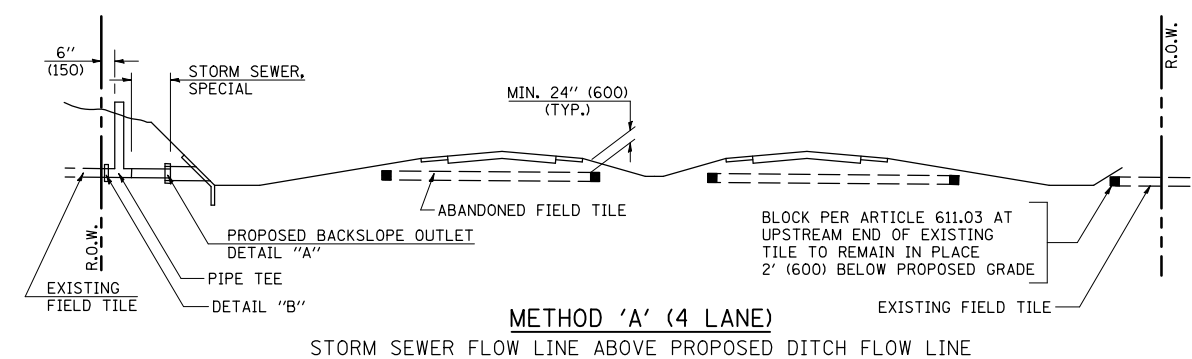
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



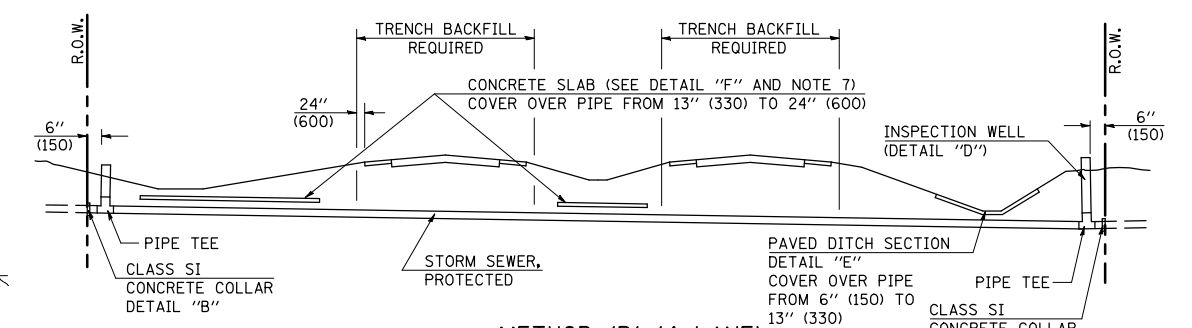
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



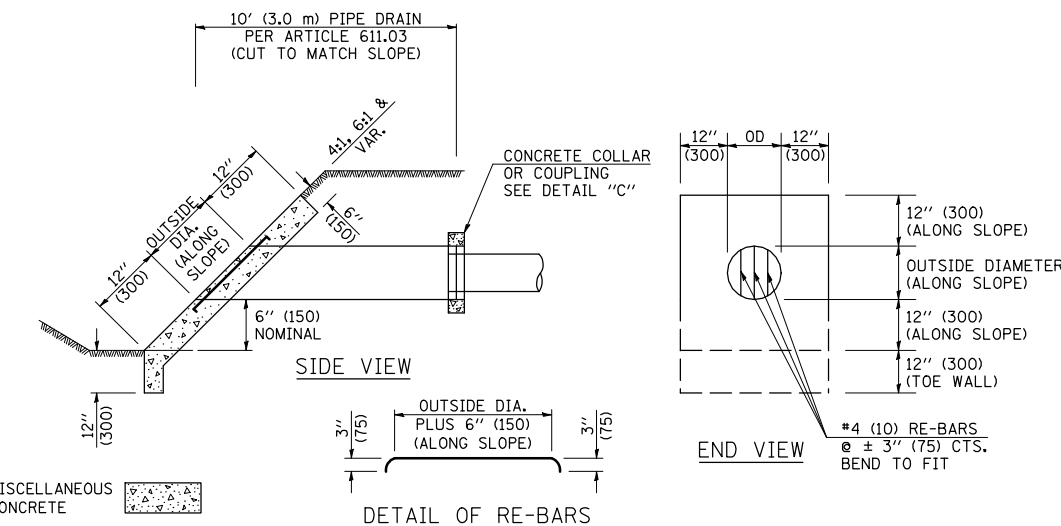
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

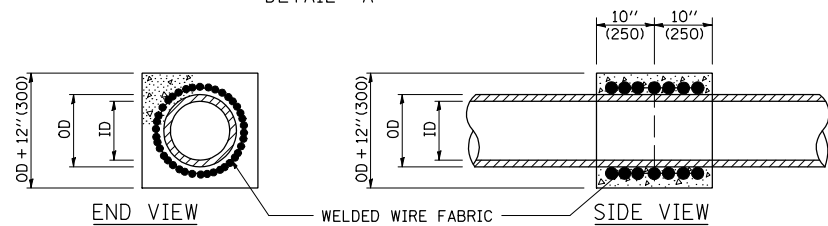


**METHOD 'B' (4 LANE)**

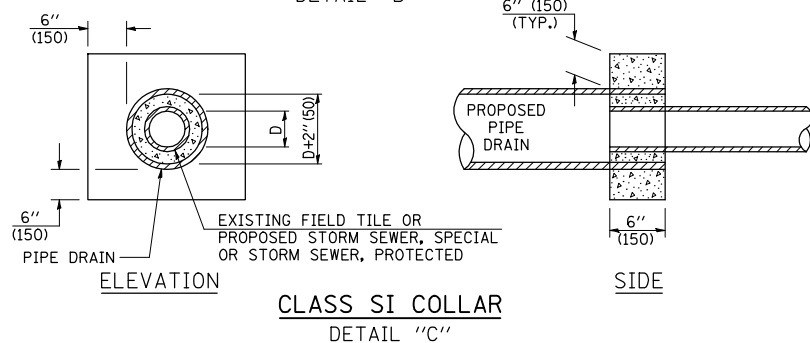
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



**HEADWALL FOR BACKSLOPE OUTLET DETAIL 'A'**



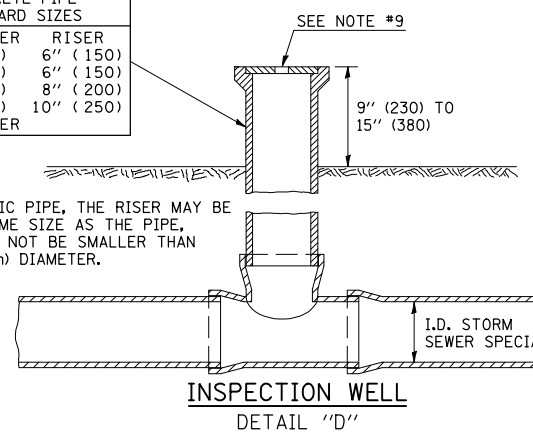
**CONCRETE COLLAR DETAIL 'B'**



**CLASS SI COLLAR DETAIL 'C'**

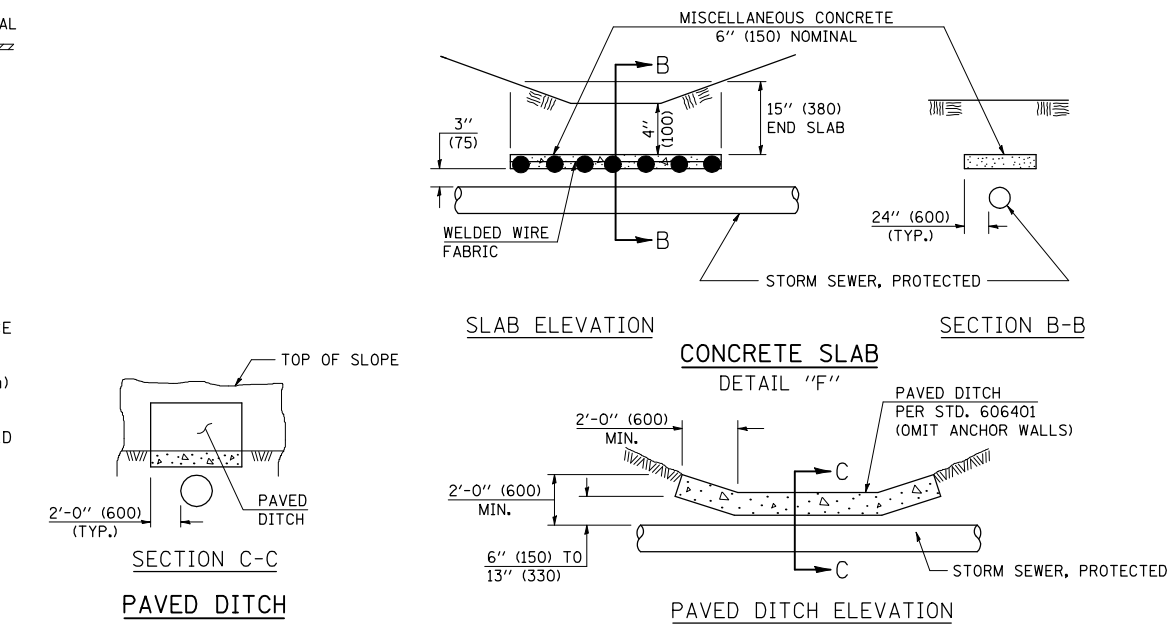
CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	8" (200)
OR GREATER	10" (250)

FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

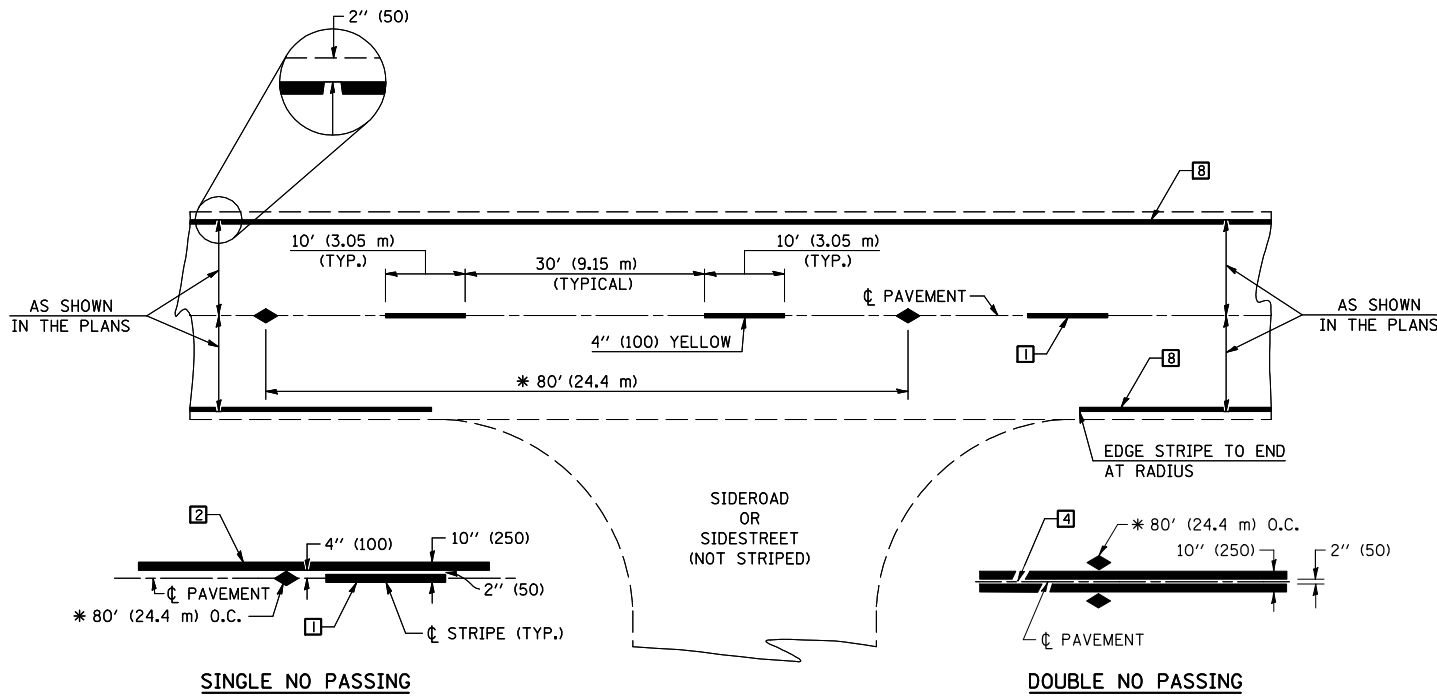
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PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/20/2010		DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	39
CONTRACT NO. 70800				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

**TWO LANE/TWO WAY**

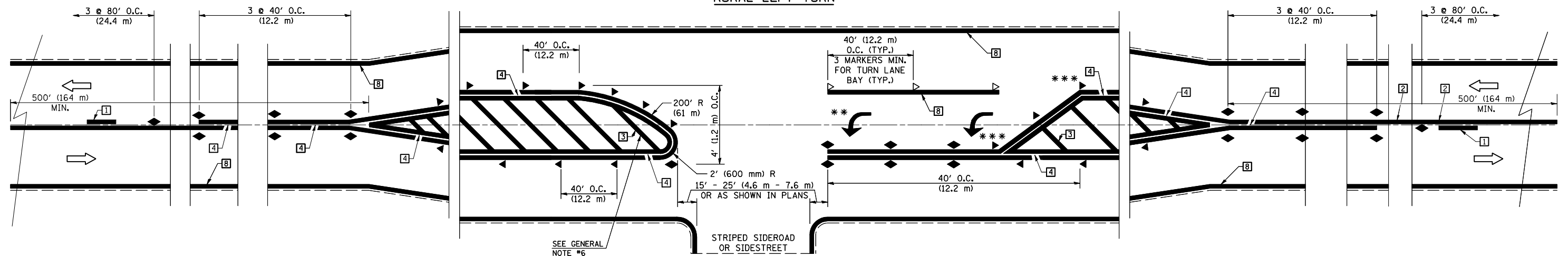
**TYPICAL PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RURAL LEFT TURN**



\*\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

\*\* TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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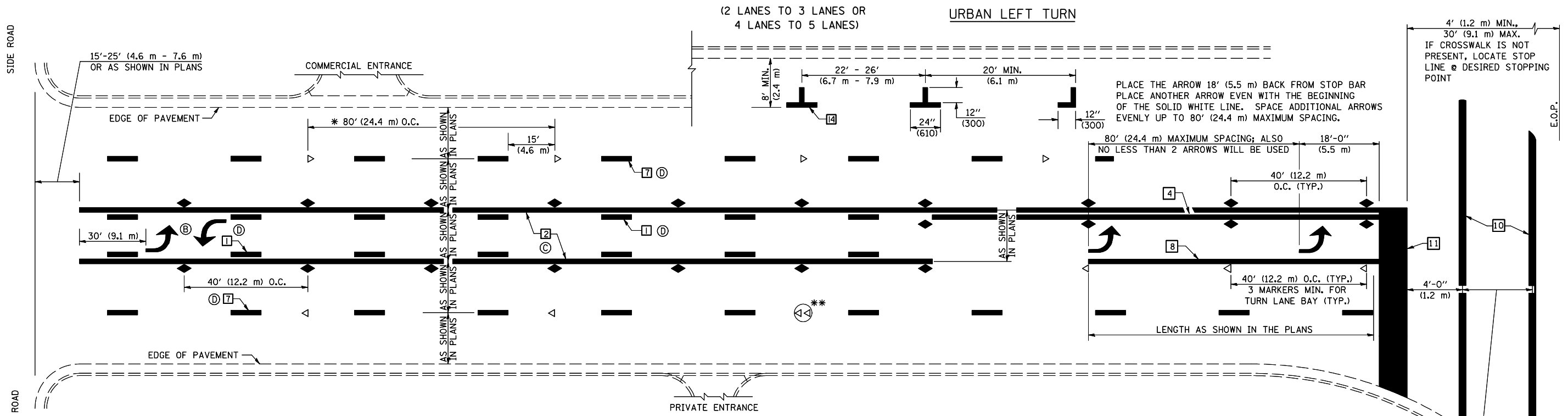
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

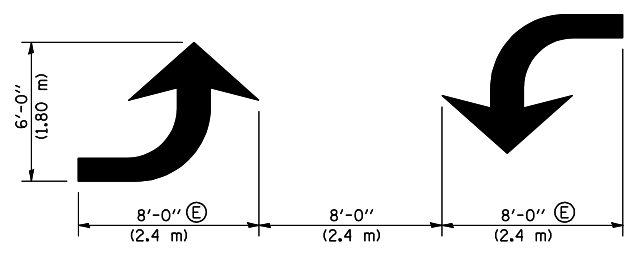
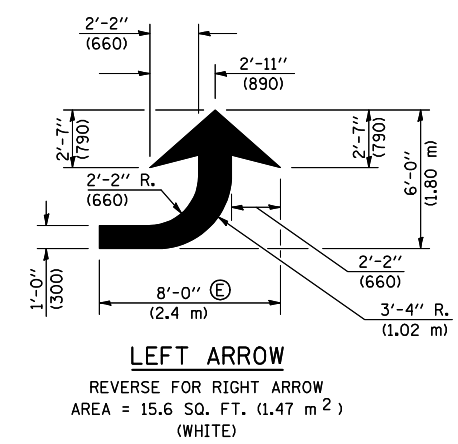
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	40
CONTRACT NO. 70800				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



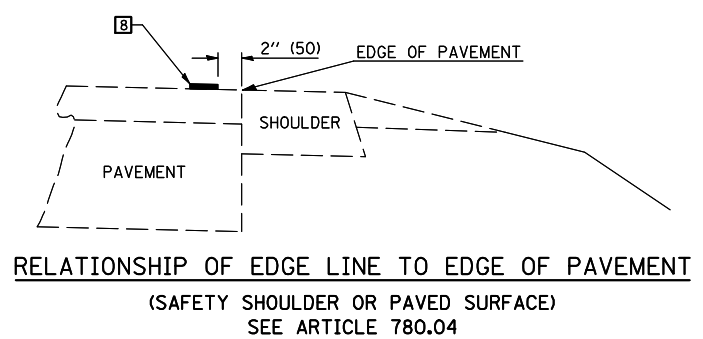
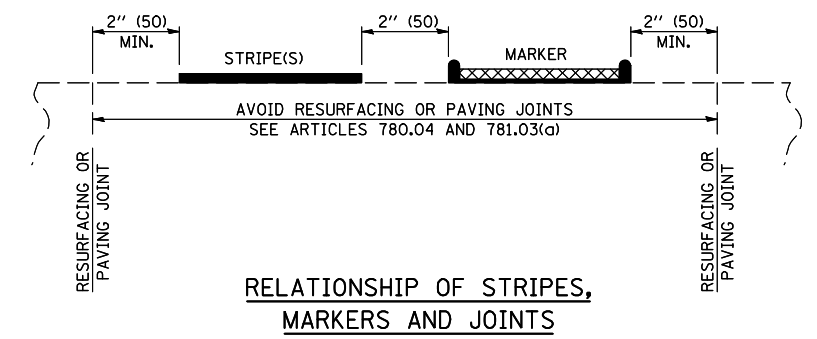
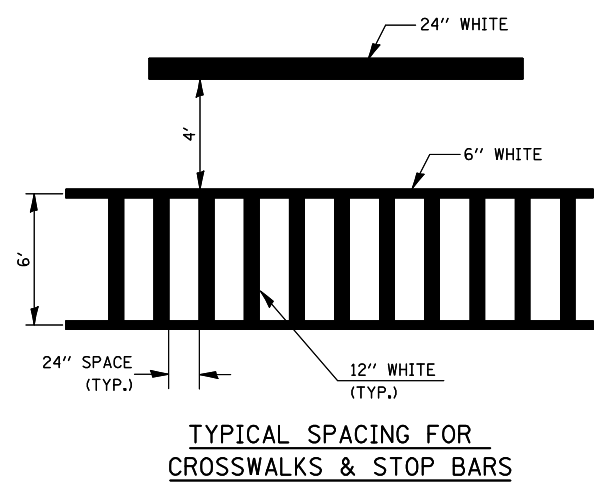
\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

- GENERAL NOTES:**
- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
  - Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
  - Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
  - Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



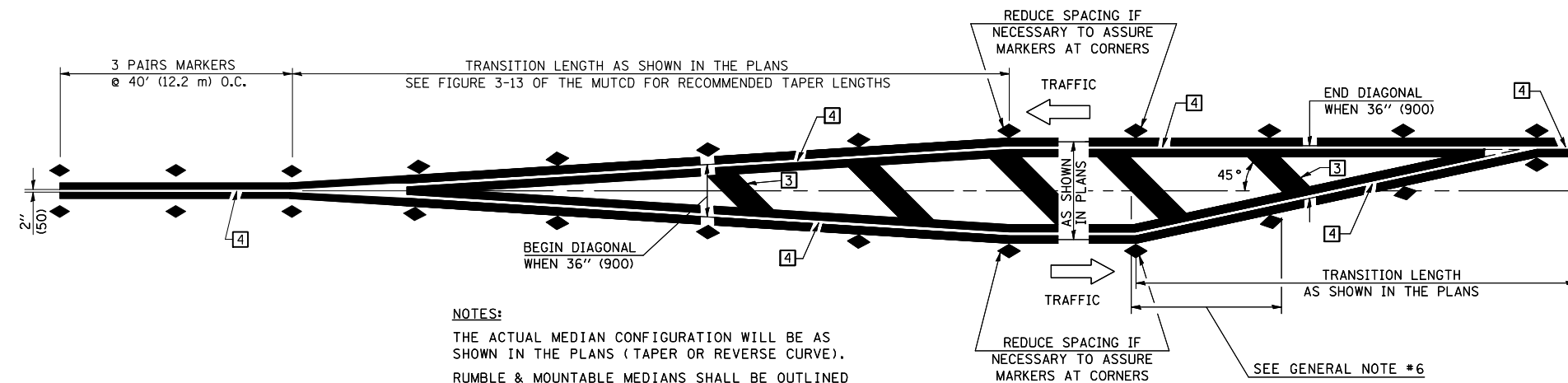
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



CROSSWALK WIDTH 6'-0" (1.8 m) OR AS SHOWN IN THE PLANS

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED - 11/06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\hennessdm\d0184799\0570800-sh1-Details.dgn	DRAWN -	REVISED - 09/2009 - KJT	741			(8,9,10)CR	PIATT	65	41	
PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70800							
PLOT DATE = 10/20/2010	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			

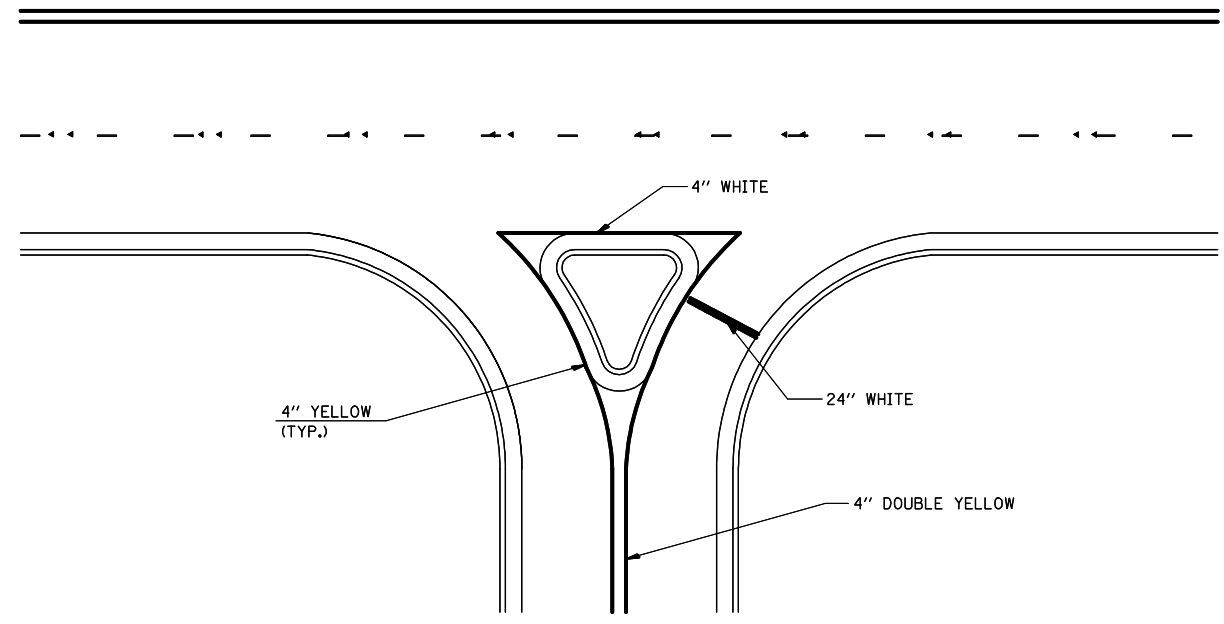


**NOTES:**  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

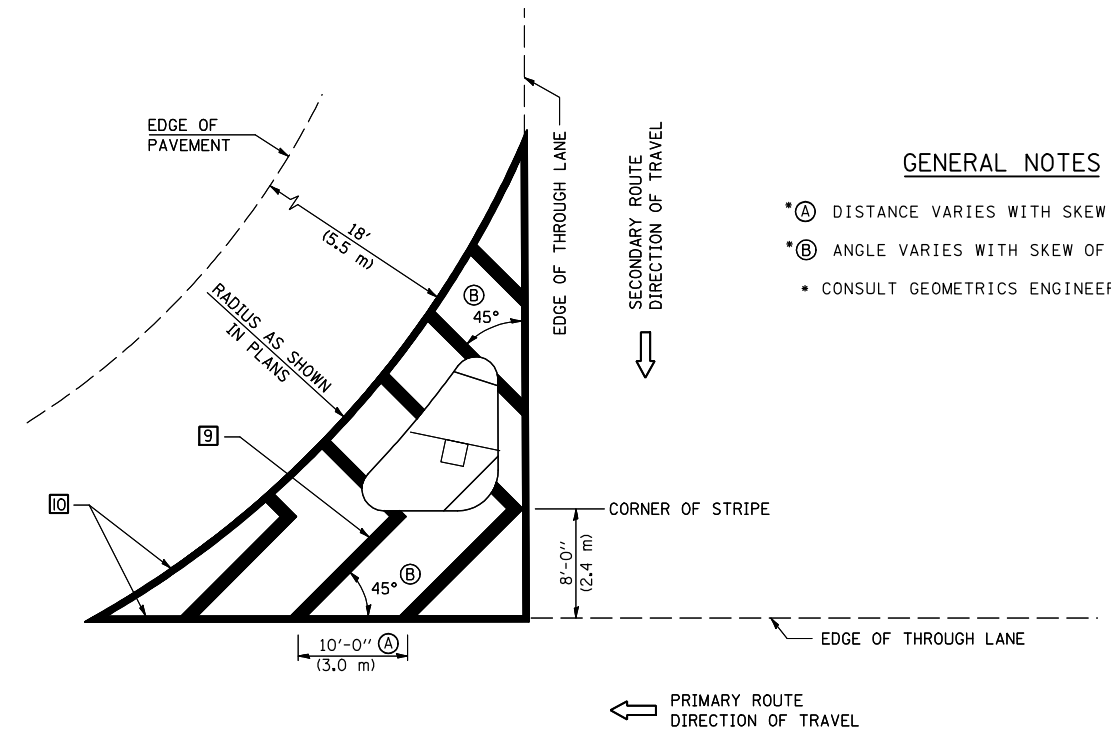
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)  
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**GENERAL NOTES**

- \*A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \*B ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

**ISLAND**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 10/20/2010	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

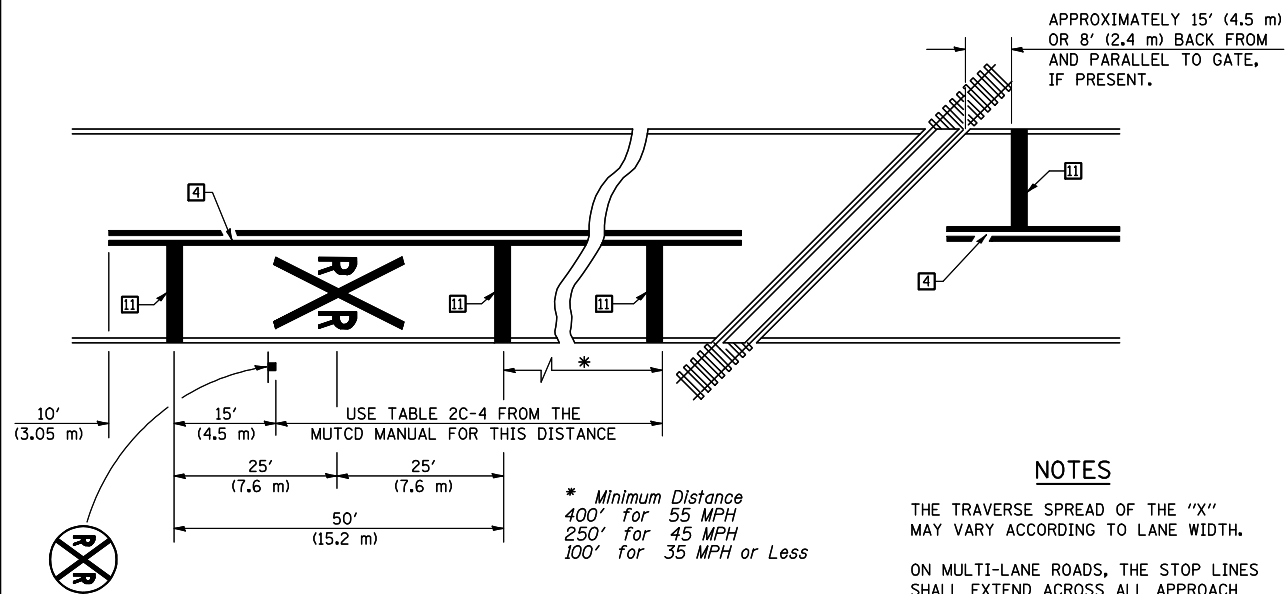
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

**DISTRICT 5 DETAIL NO. 7800AAA**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



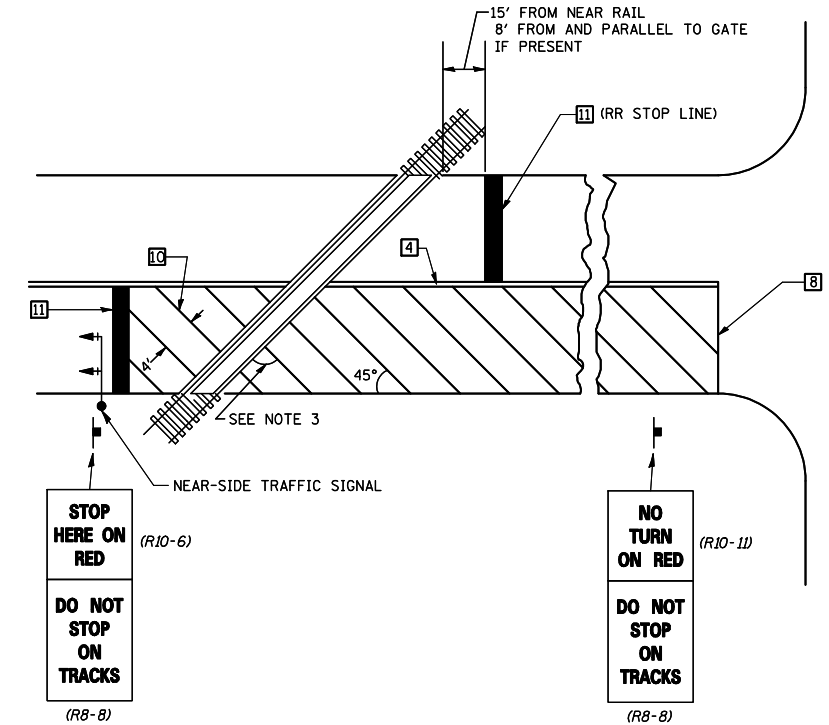
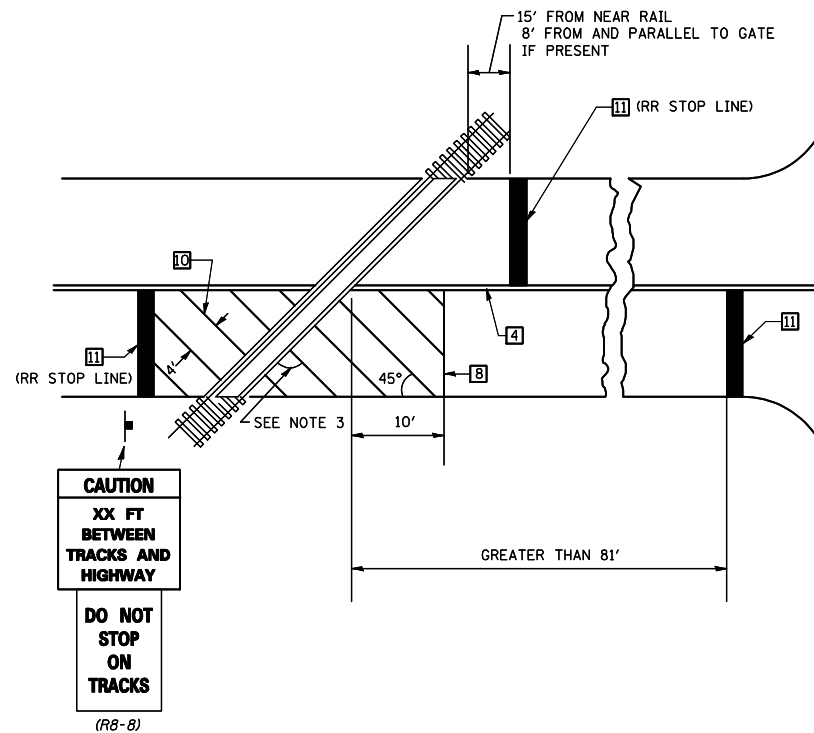
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

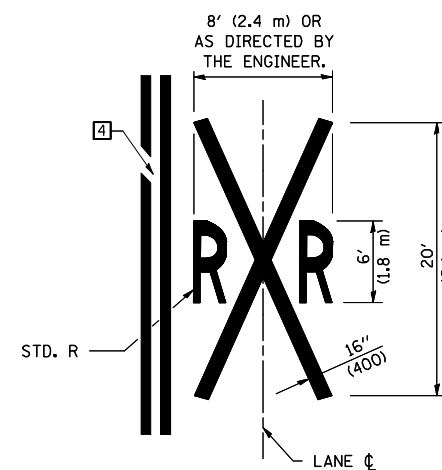
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

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	PLOT DATE = 10/20/2010	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

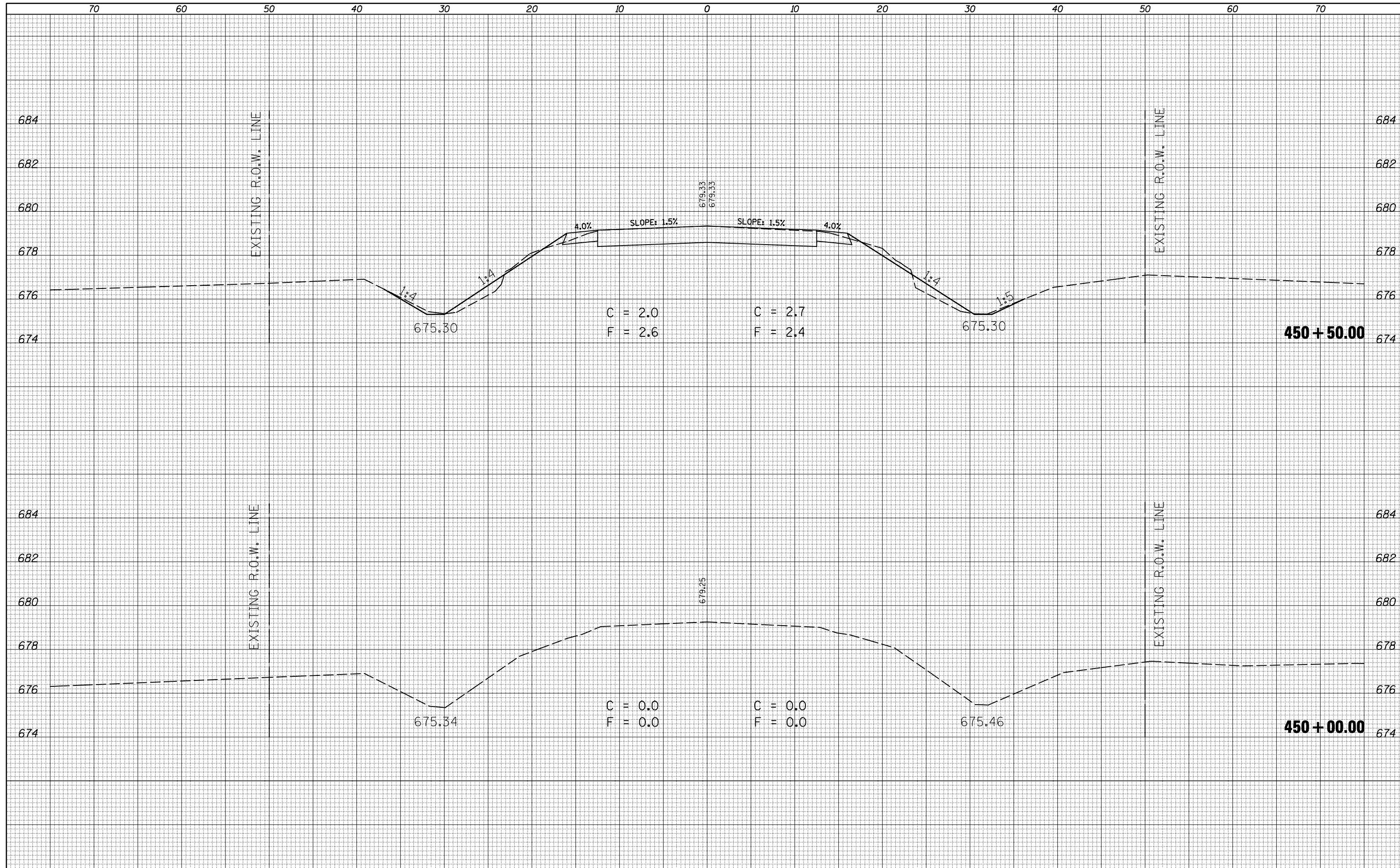
PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	43
CONTRACT NO. 70800				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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NOTE BOOK	
AREAS CHECKED	
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 PLOT DATE = 10/20/2010

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS (CULVERT #1)**

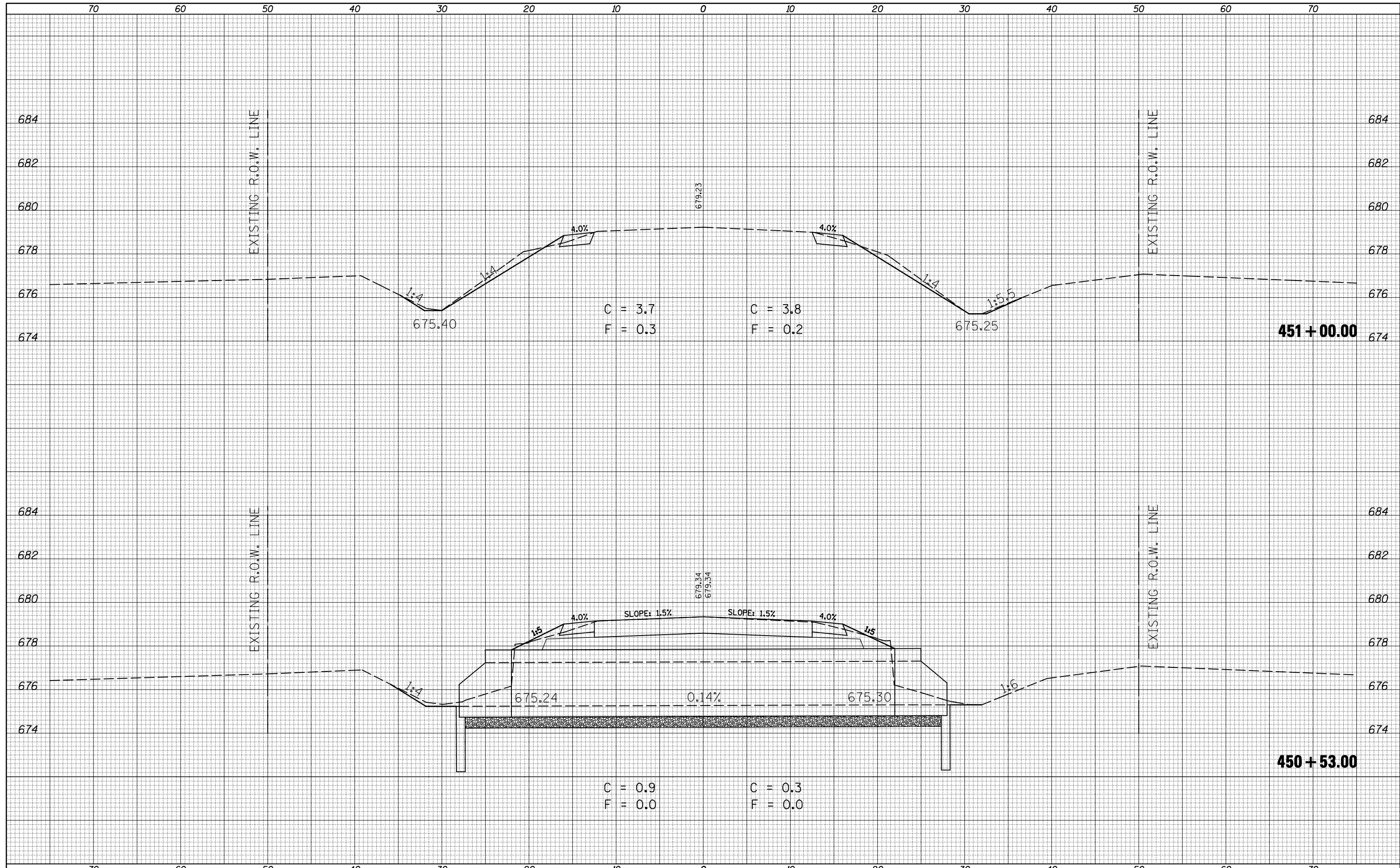
SCALE: SHEET NO. 1 OF 3 SHEETS STA. 450+00.00 TO STA. 450+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	44
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



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

DATE	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



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USER NAME = hennesdm  
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 CHECKED -  
 DATE -

REVISIED -  
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DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

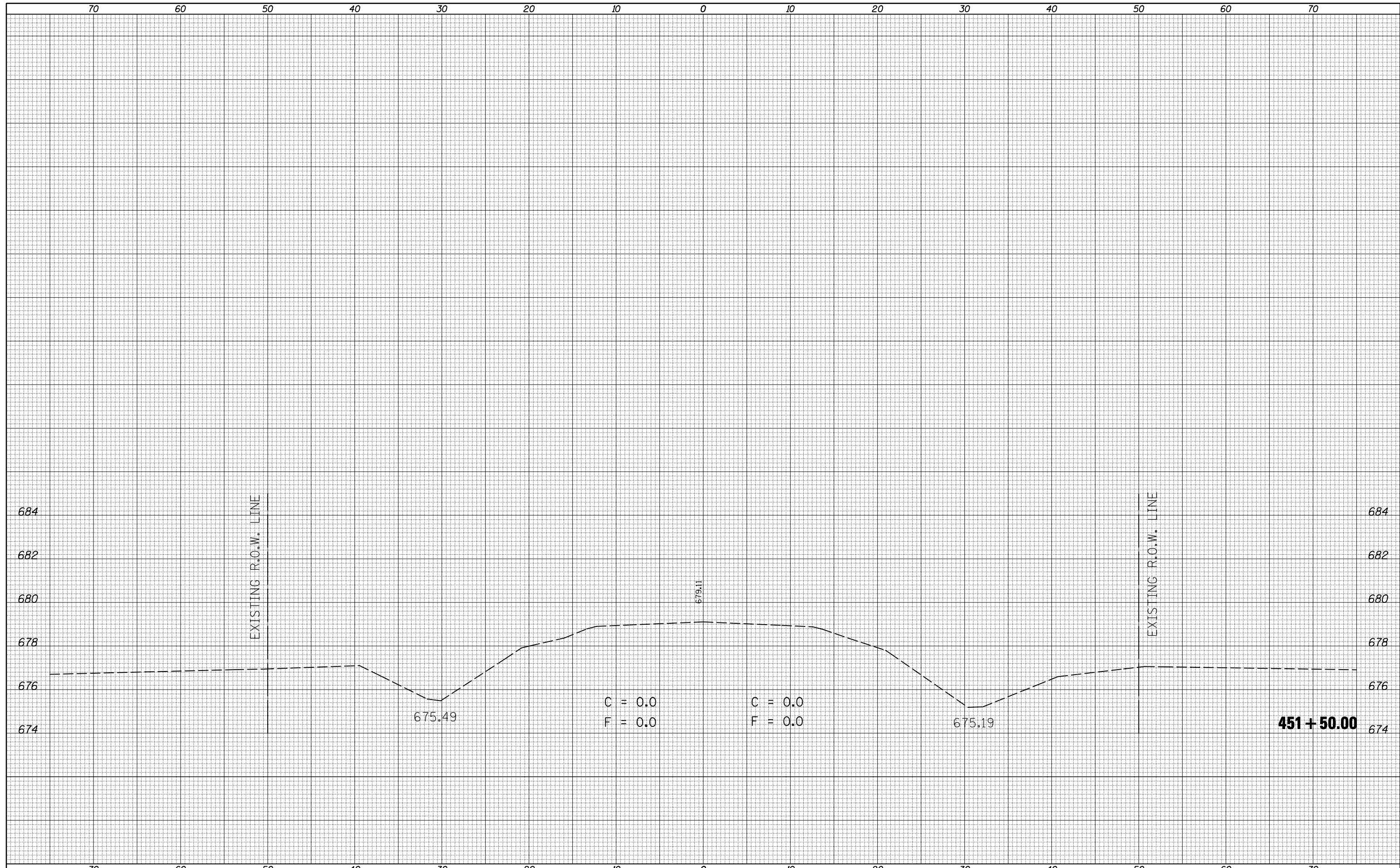
**CROSS SECTIONS (CULVERT #1)**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 450+53.00 TO STA. 451+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	45
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =  
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 PLOT DATE = 10/20/2010

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

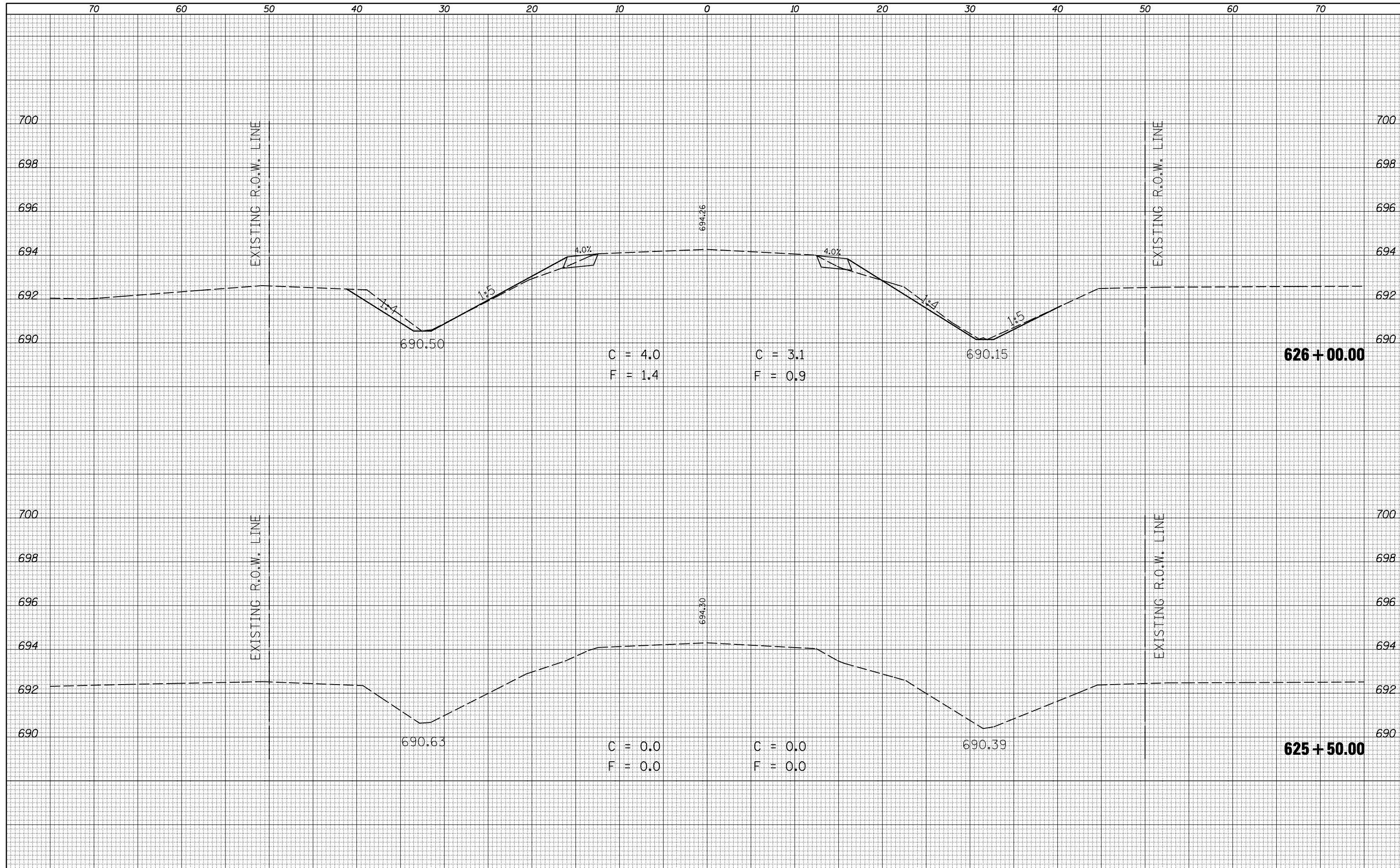
**CROSS SECTIONS (CULVERT #1)**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 451+50.00 TO STA. 451+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	46
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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FILE NAME =  
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 PLOT DATE = 10/20/2010

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

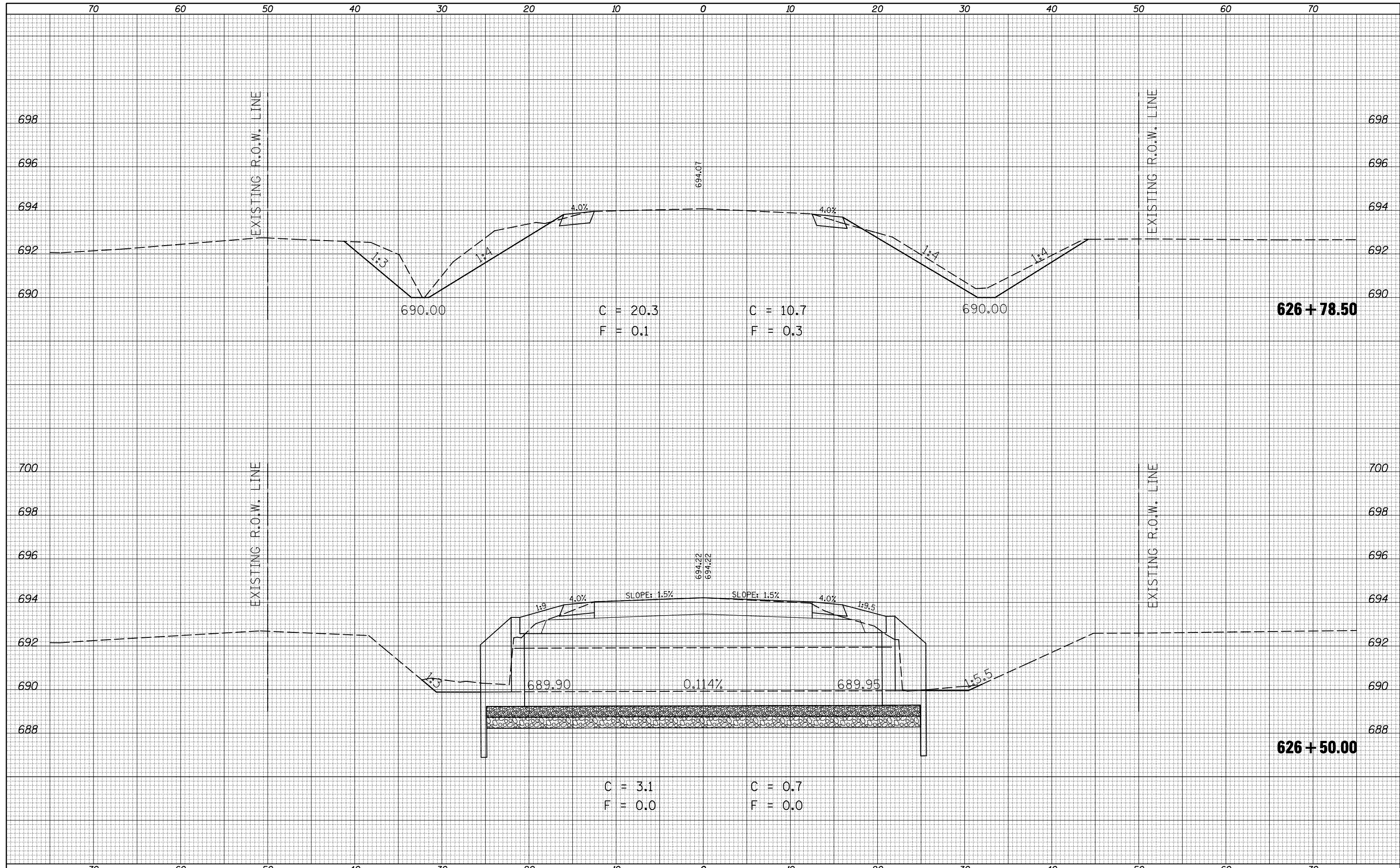
**CROSS SECTIONS S.N. 074-8062 (CULVERT #2)**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. 625+50.00 TO STA. 626+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	

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

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



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DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS S.N. 074-8062 (CULVERT #2)**

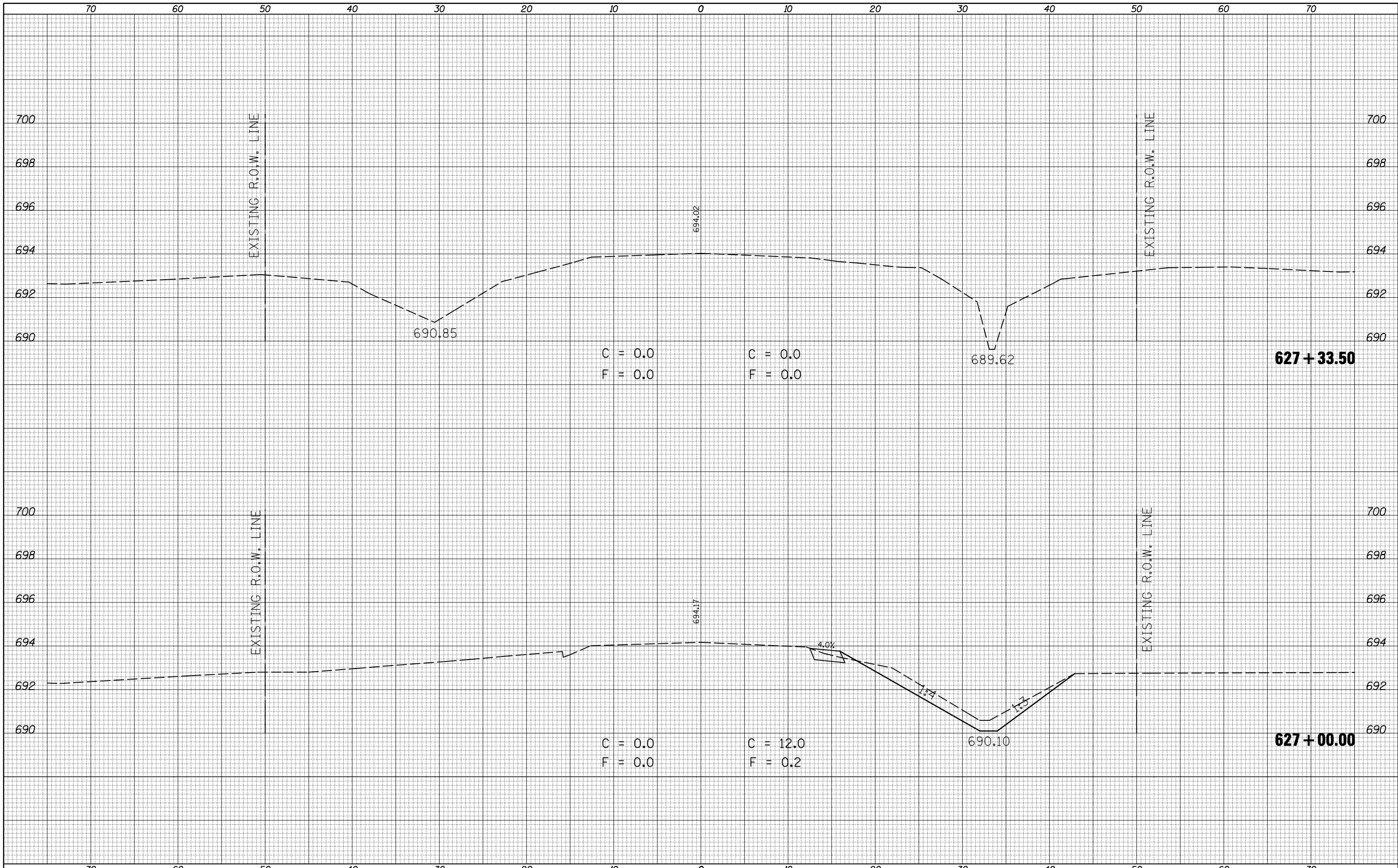
SCALE:      SHEET NO. 2 OF 3 SHEETS      STA. 626+50.00 TO STA. 626+78.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	



DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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USER NAME = hennesdm  
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 PLOT DATE = 10/20/2010

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

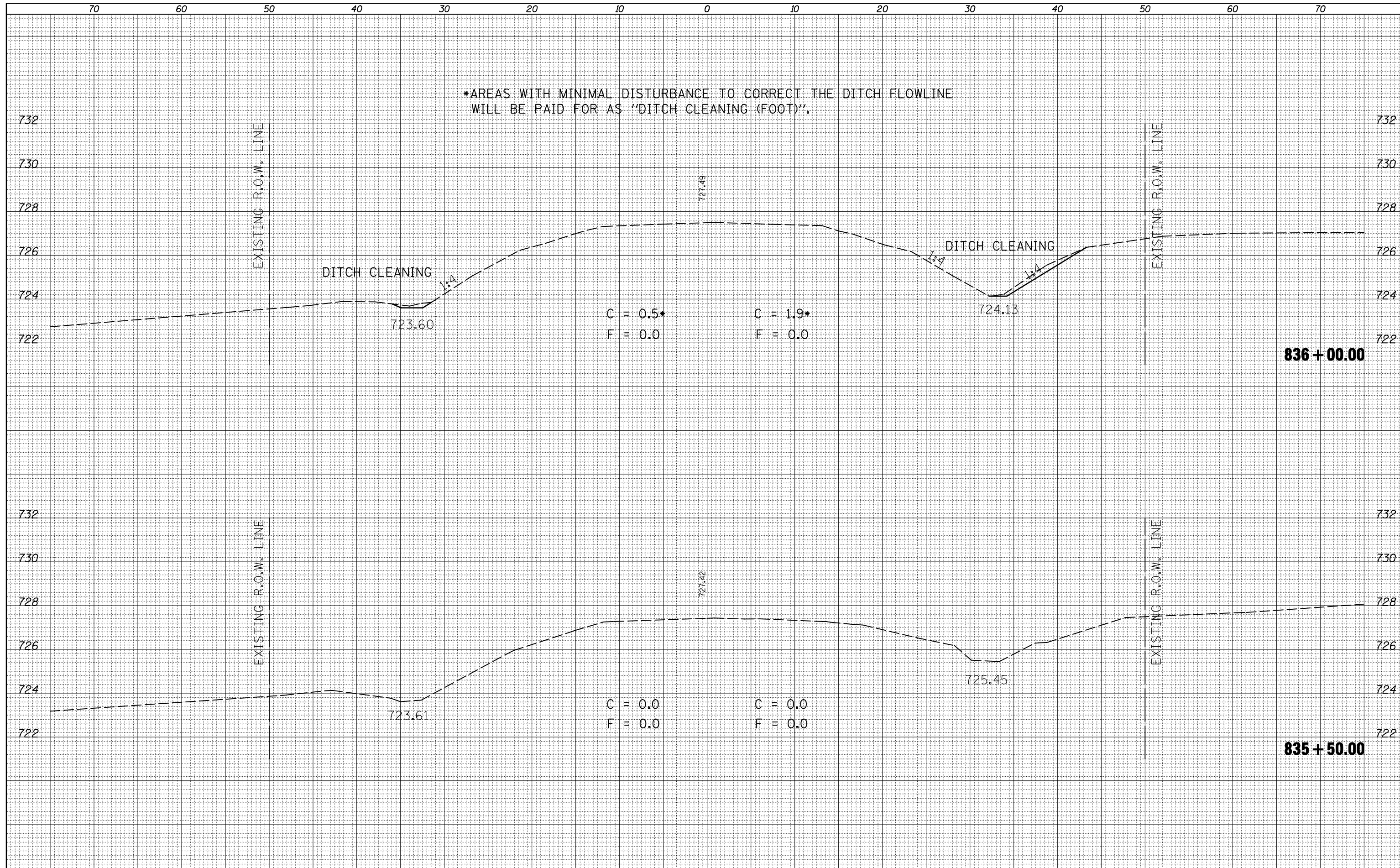
**CROSS SECTIONS S.N. 074-8062 (CULVERT #2)**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 627+00.00 TO STA. 627+33.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	49
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

DATE	
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 PLOT DATE = 10/20/2010

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

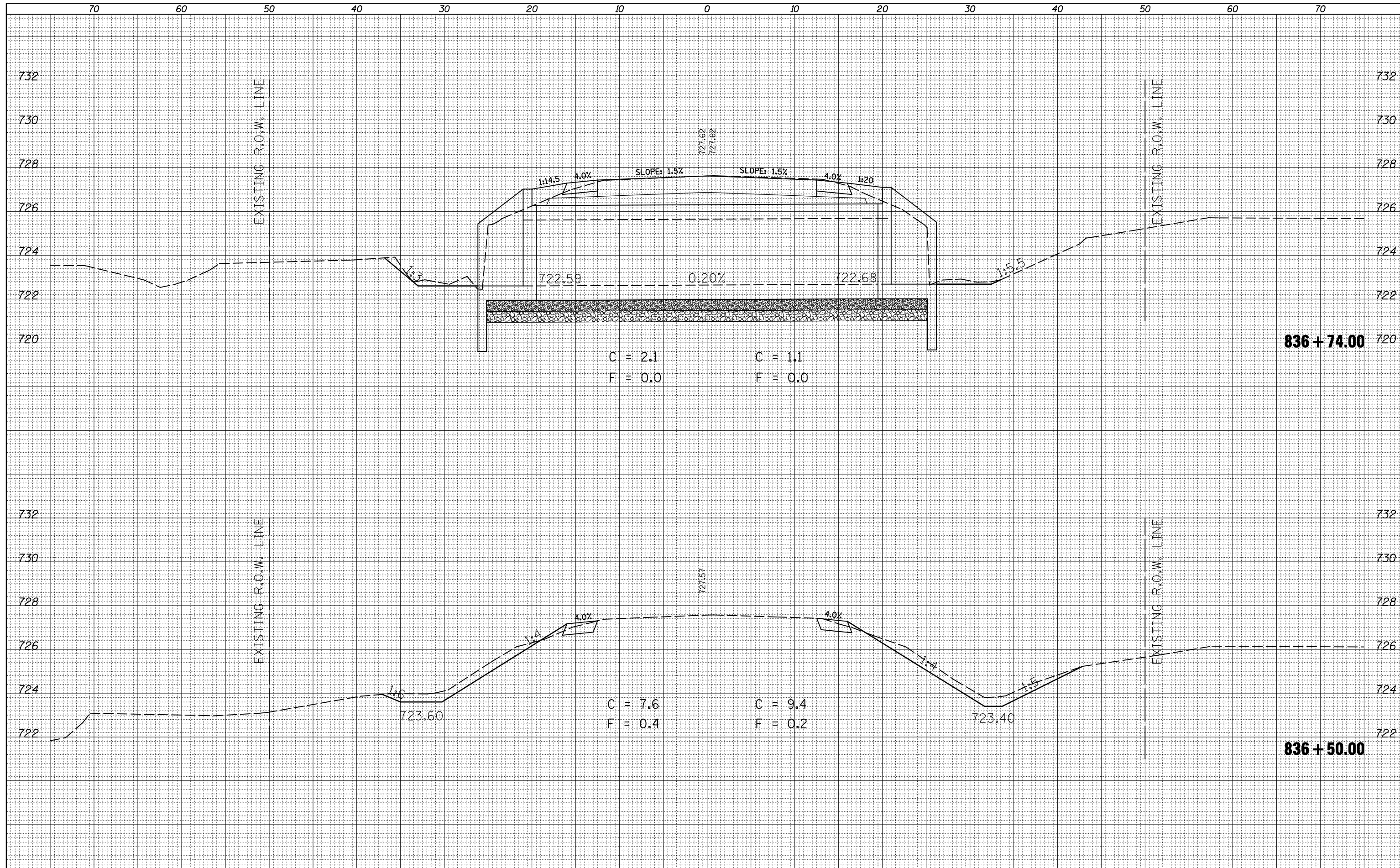
**CROSS SECTIONS S.N. 074-8065 (CULVERT #3)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. 835+50.00 TO STA. 836+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	50
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

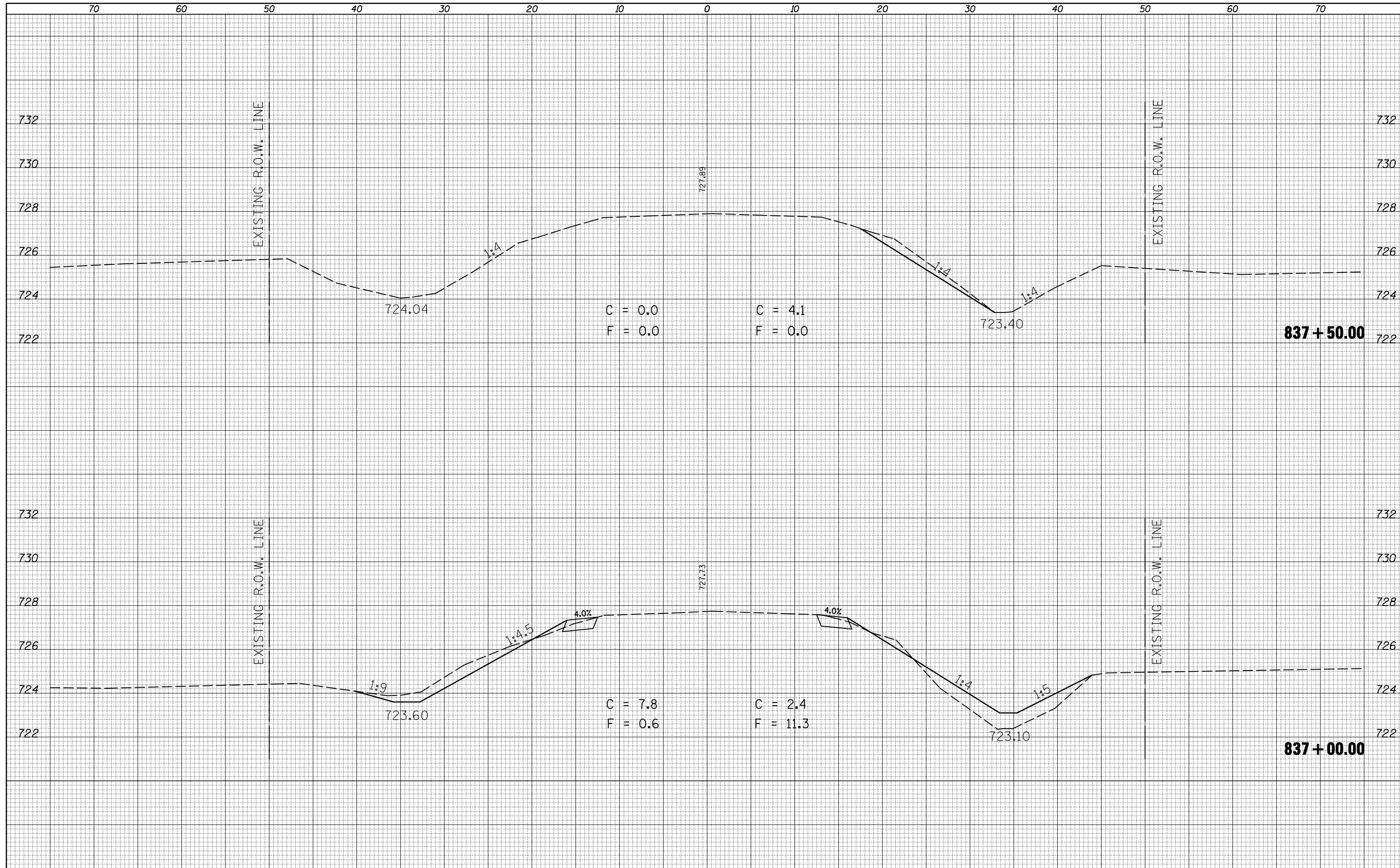
**CROSS SECTIONS S.N. 074-8065 (CULVERT #3)**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. 836+50.00 TO STA. 836+74.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70800	

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

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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USER NAME = hennessdm  
 PLOT SCALE = 10.0000 "/ IN.  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS S.N. 074-8065 (CULVERT #3)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 837+00.00 TO STA. 837+50.00

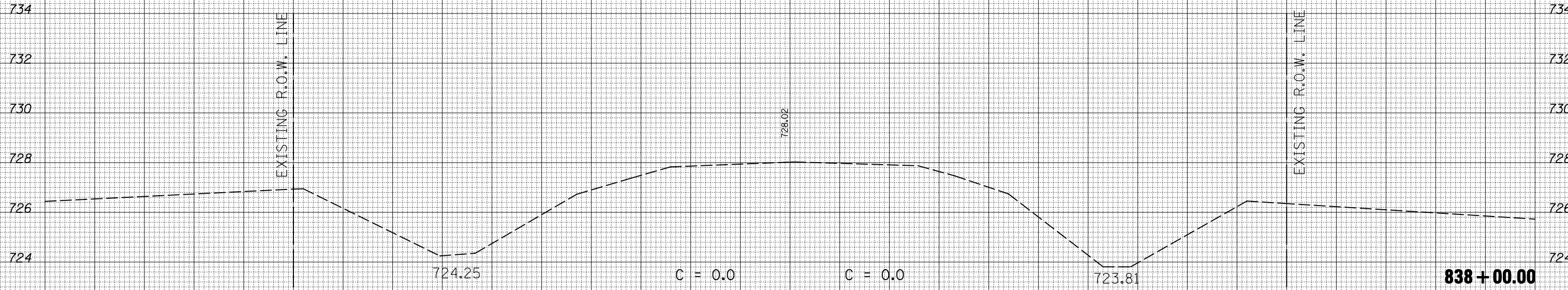
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	52
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

BY	DATE
FINISHED SURVEY	SURVEYED
NOTE BOOK NO.	PLATTED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLATTED
	AREAS CHECKED



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

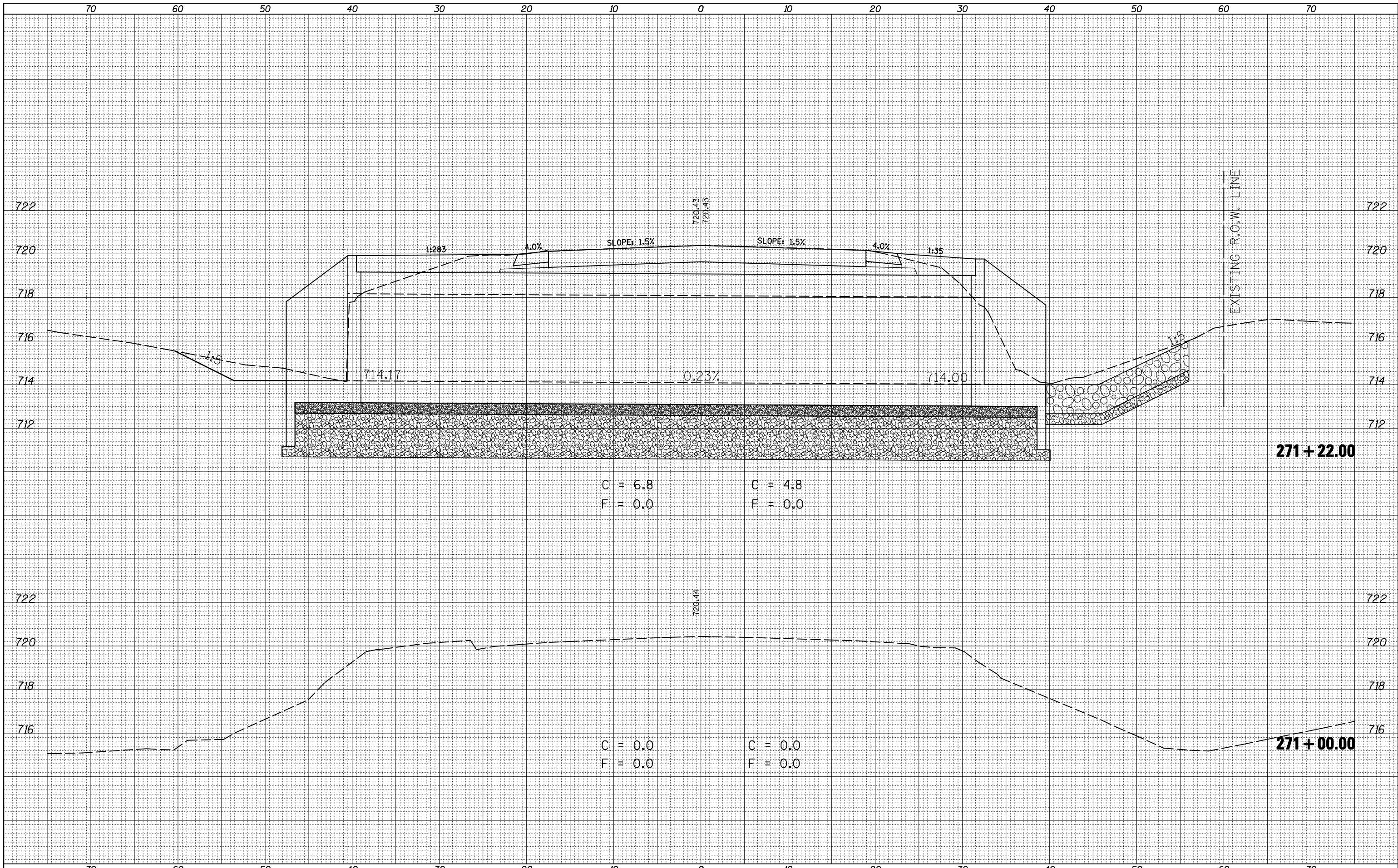
CROSS SECTIONS S.N. 074-8065 (CULVERT #3)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. 838+00.00 TO STA. 838+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	53
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

BY	DATE

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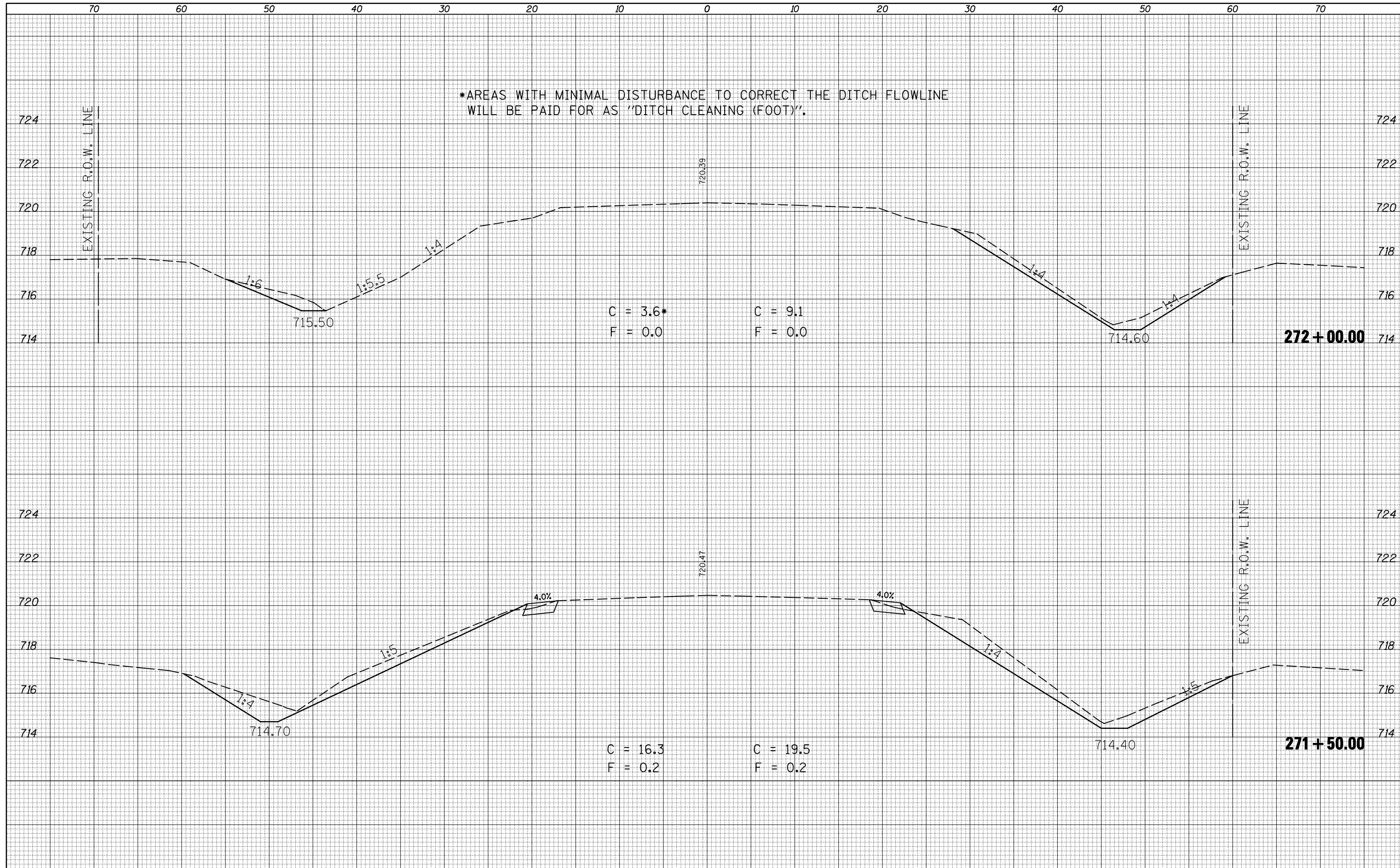
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS S.N. 074-8315 (CULVERT #4)**  
 SCALE: SHEET NO. 1 OF 3 SHEETS STA. 271+00.00 TO STA. 271+22.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	54
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED

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



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

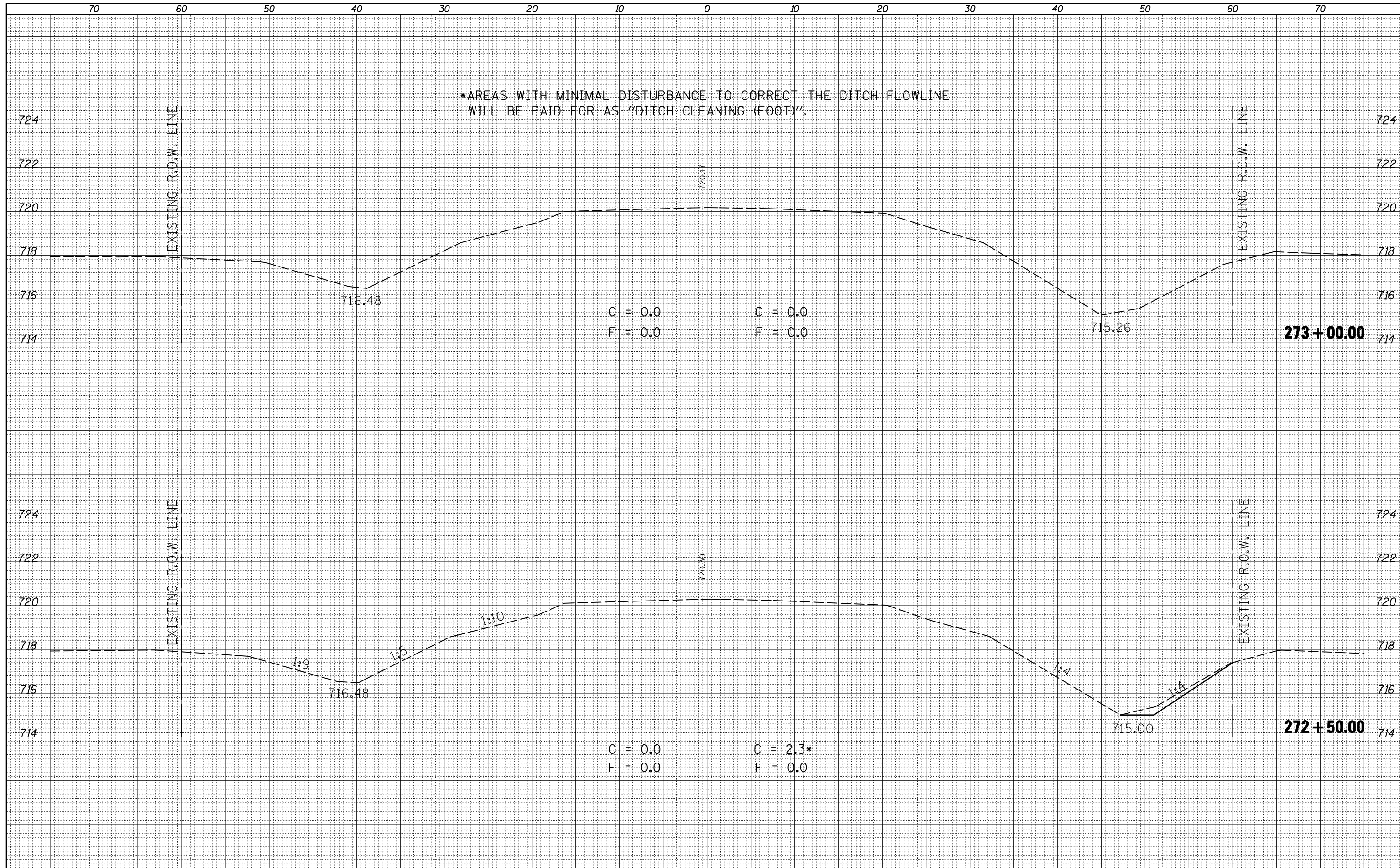
**CROSS SECTIONS S.N. 074-8315 (CULVERT #4)**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 271+50.00 TO STA. 272+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	55
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

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

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



\*AREAS WITH MINIMAL DISTURBANCE TO CORRECT THE DITCH FLOWLINE  
WILL BE PAID FOR AS "DITCH CLEANING (FOOT)".

C = 0.0  
F = 0.0

C = 0.0  
F = 0.0

C = 2.3\*  
F = 0.0

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PLOT DATE = 10/20/2010

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REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS S.N. 074-8315 (CULVERT #4)

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 272+50.00 TO STA. 273+00.00

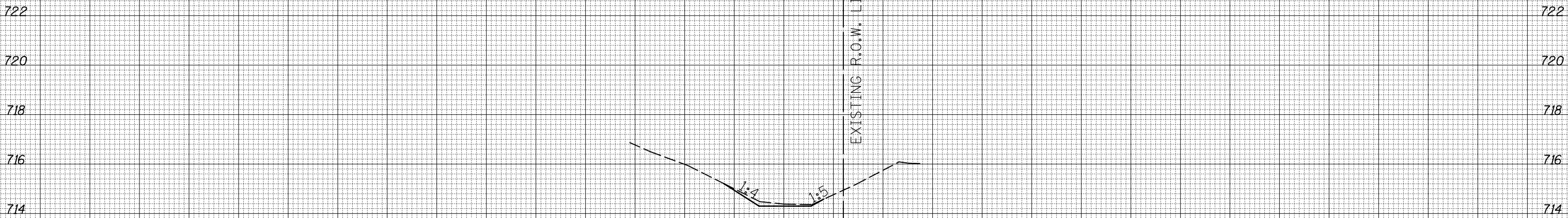
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	56
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

\*AREAS WITH MINIMAL DISTURBANCE TO CORRECT THE DITCH FLOWLINE WILL BE PAID FOR AS "DITCH CLEANING (FOOT)".

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NO.	
NOTE BOOK	
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C = 0.9\*  
F = 0.0

**45 + 50.00**

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NO.	
NOTE BOOK	
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C = 0.0  
F = 0.0

**45 + 00.00**

FILE NAME =	ca:\pwwork\pwwork\hennessdm\00184799\0570800-sht-xssh-105west.dgn
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PLOT DATE = 10/20/2010	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET NO. 1 OF 9 SHEETS	STA. 45+00.00 TO STA. 45+50.00	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	57

<b>CROSS SECTIONS C.H. 12 &amp; IL 105 (WEST)</b>	
CONTRACT NO. 70800	
ILLINOIS FED. AID PROJECT	

40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

\*AREAS WITH MINIMAL DISTURBANCE TO CORRECT THE DITCH FLOWLINE  
WILL BE PAID FOR AS 'DITCH CLEANING (FOOT)'.

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL	
SURVEY	
NOTE BOOK	
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722  
720  
718  
716  
714

722  
720  
718  
716  
714

714.30

C = 1.8\*  
F = 0.0

46 + 50.00

EXISTING R.O.W. LINE

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

722  
720  
718  
716  
714

722  
720  
718  
716  
714

714.30

C = 2.2\*  
F = 0.0

46 + 00.00

EXISTING R.O.W. LINE

40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS C.H. 12 & IL 105 (WEST)

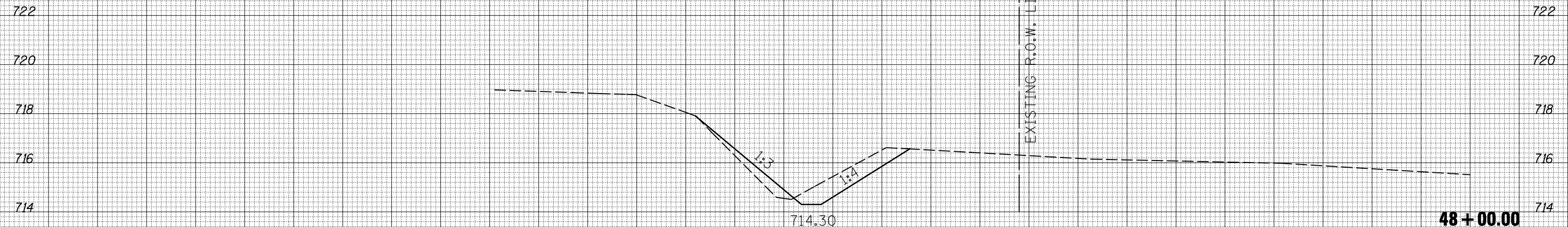
SCALE: SHEET NO. 2 OF 9 SHEETS STA. 46+00.00 TO STA. 46+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	58
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

\*AREAS WITH MINIMAL DISTURBANCE TO CORRECT THE DITCH FLOWLINE  
WILL BE PAID FOR AS "DITCH CLEANING (FOOT)".

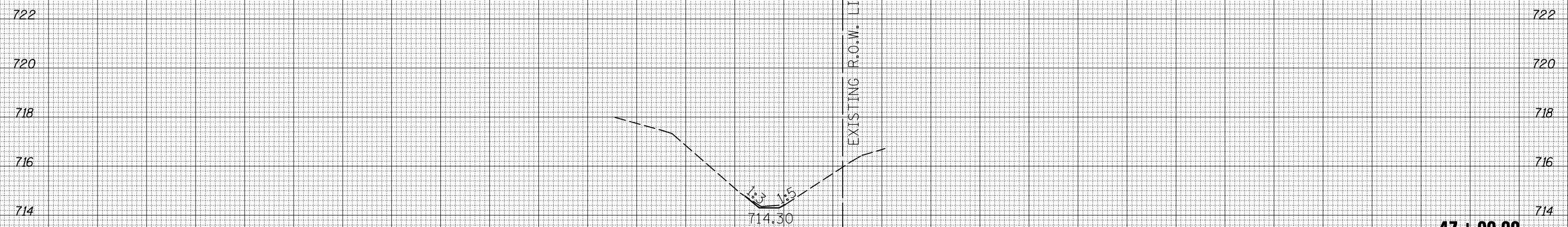
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C = 7.3  
F = 2.9

48+00.00

DATE	
BY	
SURVEYED	
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TEMPLATE	
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ORIGINAL	
SURVEY	
NOTE BOOK	
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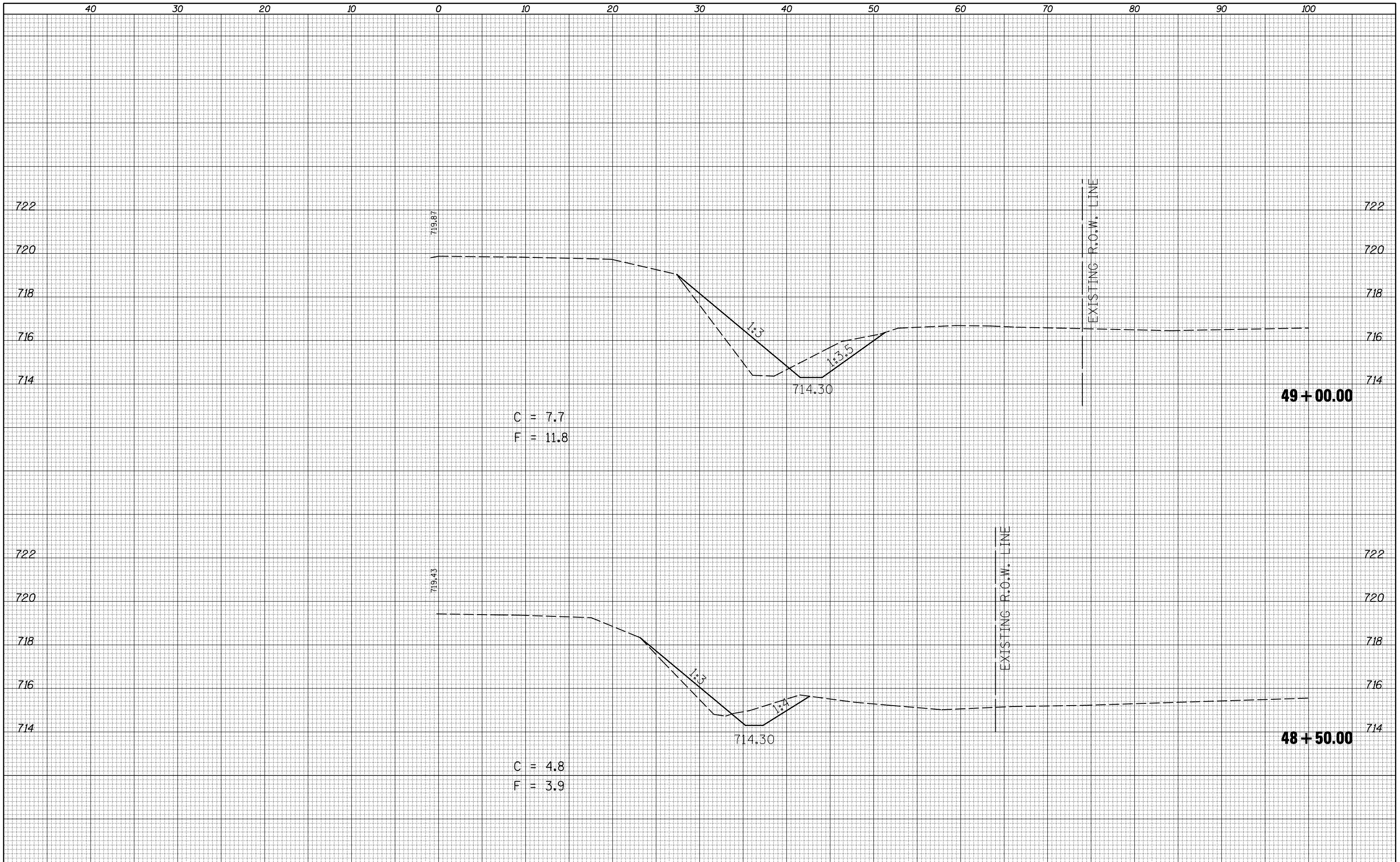


C = 0.3\*  
F = 0.0

47+00.00

BY	DATE
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED

BY	DATE
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED



C = 7.7  
F = 11.8

C = 4.8  
F = 3.9

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

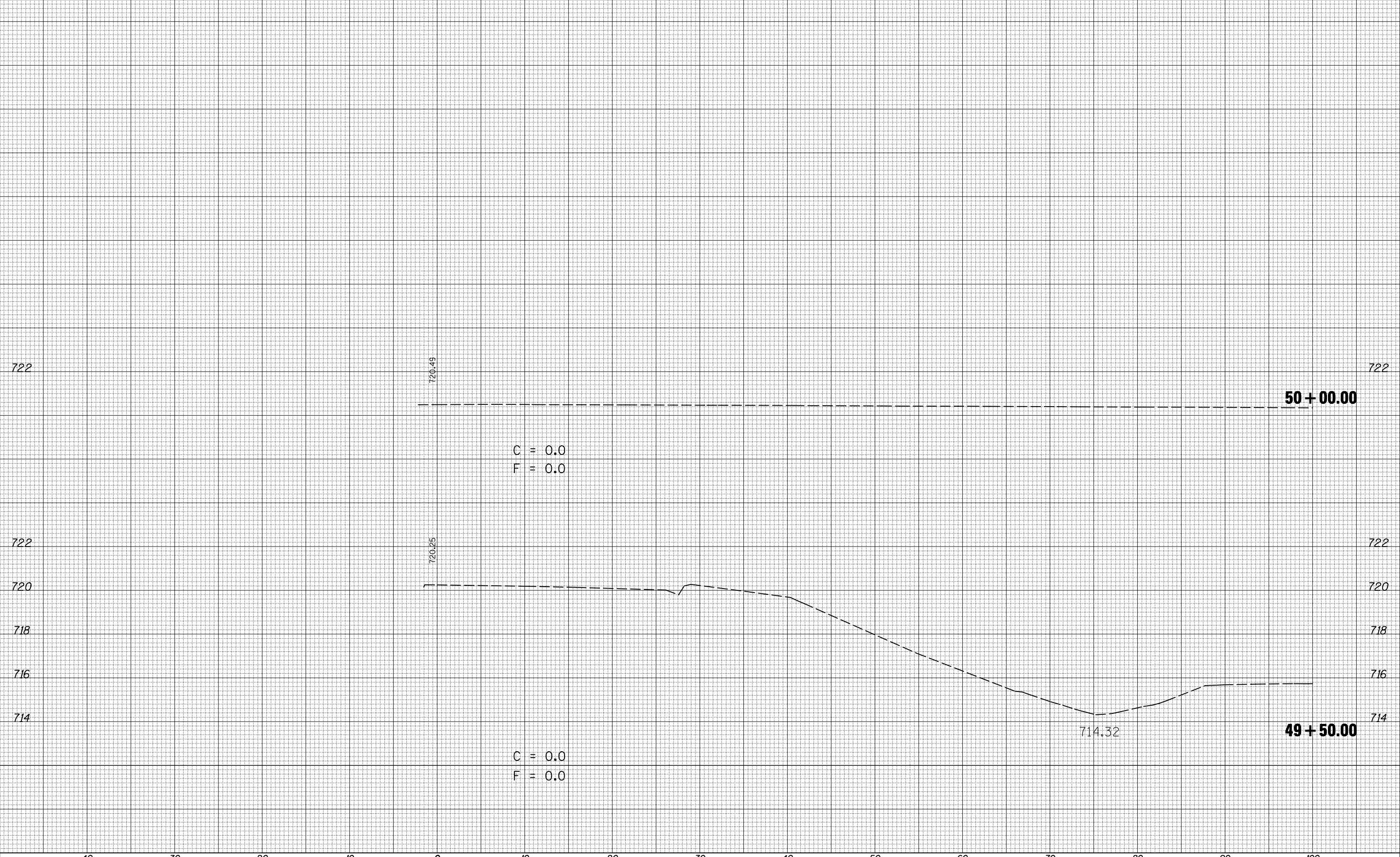
CROSS SECTIONS C.H. 12 & IL 105 (WEST)

SCALE: SHEET NO. 4 OF 9 SHEETS STA. 48+50.00 TO STA. 49+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	60
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	



40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

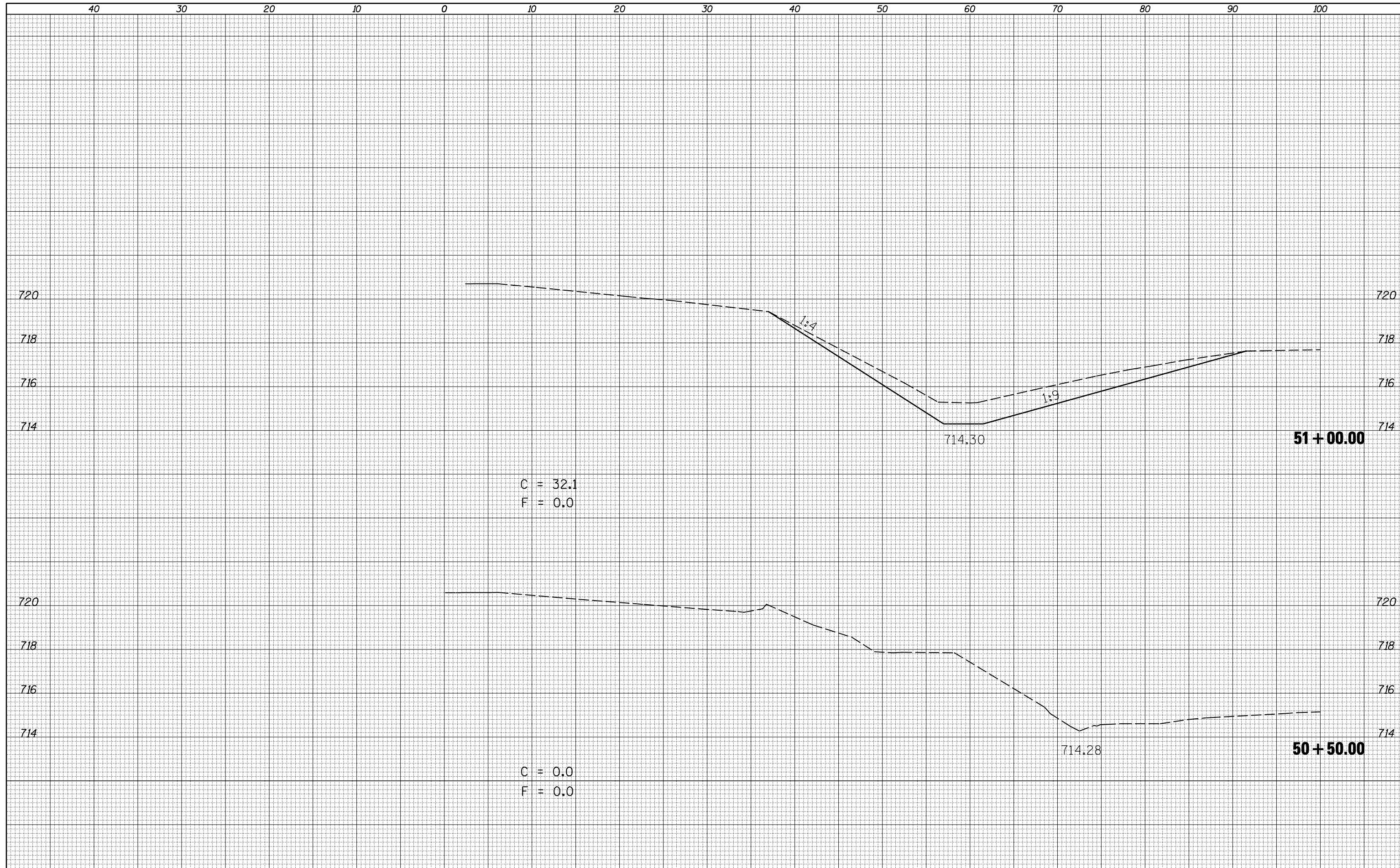


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		NOTE BOOK	TEMPLATE
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

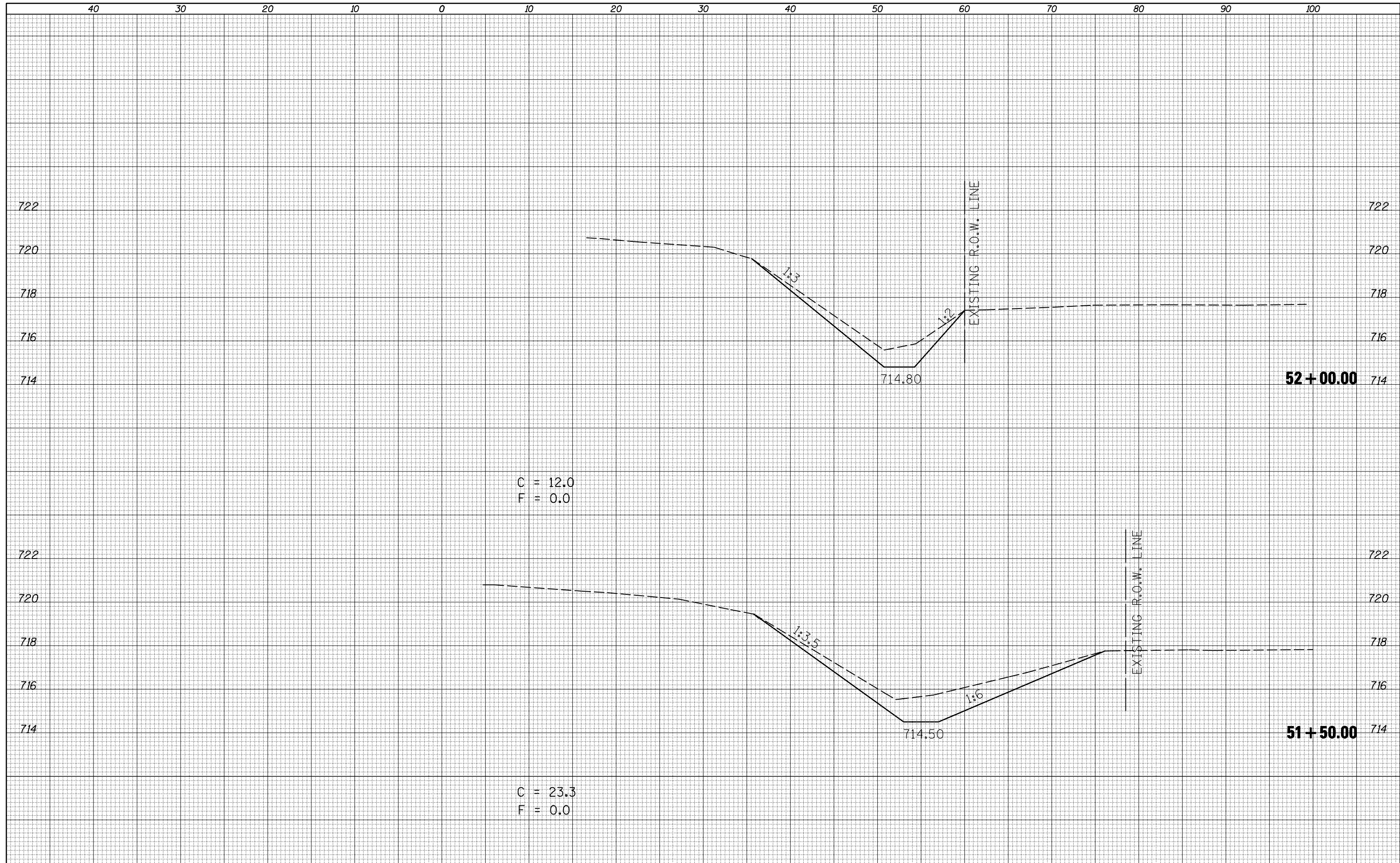
**CROSS SECTIONS C.H. 12 & IL 105 (WEST)**

SCALE: SHEET NO. 6 OF 9 SHEETS STA. 50+50.00 TO STA. 51+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	62
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	

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

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



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USER NAME = hennesdm  
 DRAWN -  
 PLOT SCALE = 10.0000 / IN.  
 PLOT DATE = 10/20/2010

DESIGNED -	REVISÉ -
CHECKED -	REVISÉ -
DATE -	REVISÉ -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

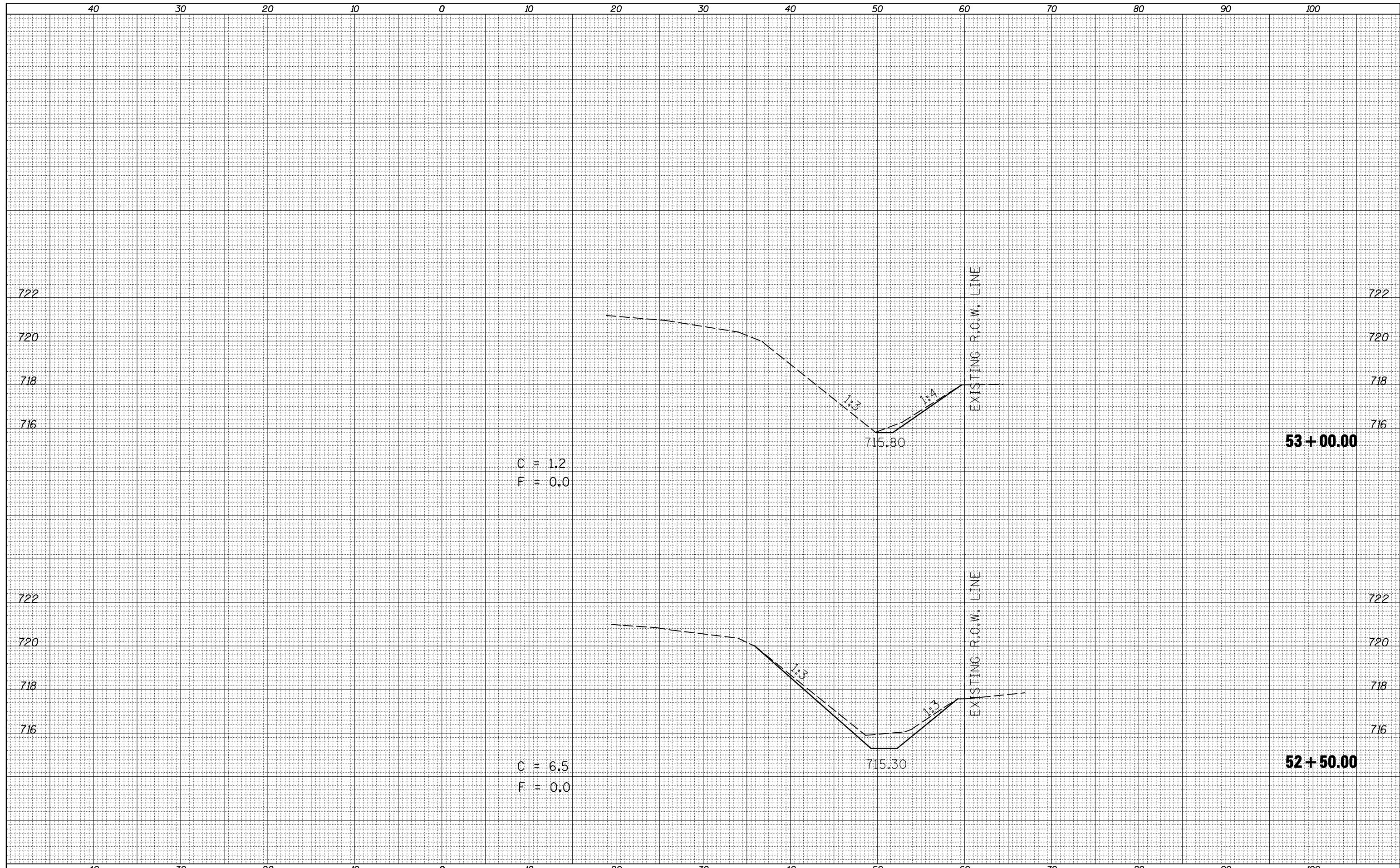
**CROSS SECTIONS C.H. 12 & IL 105 (WEST)**

SCALE:      SHEET NO. 7 OF 9 SHEETS      STA. 51+50.00 TO STA. 52+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	63
CONTRACT NO. 70800				
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE = 10/20/2010

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS C.H. 12 & IL 105 (WEST)**

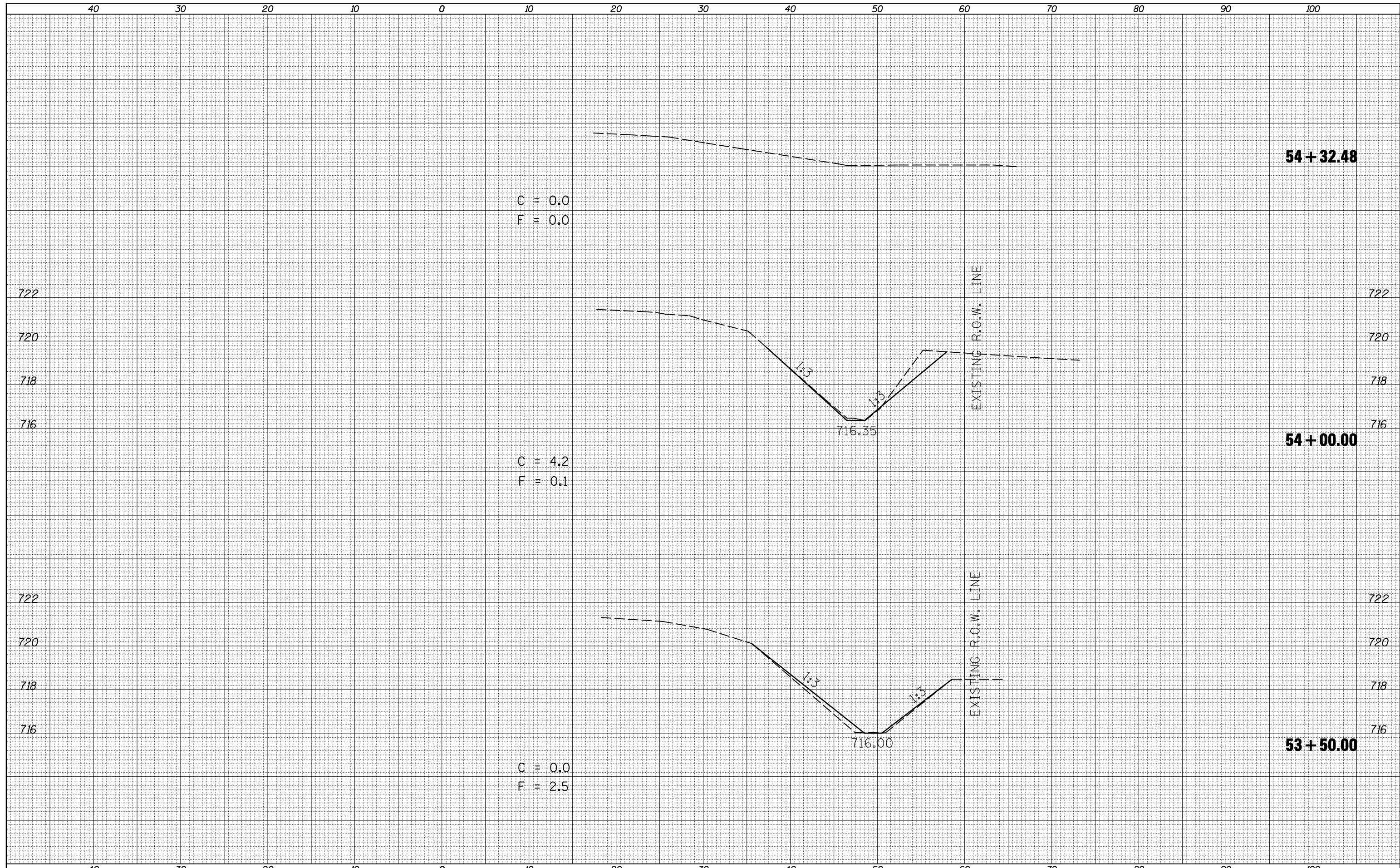
SCALE: SHEET NO. 8 OF 9 SHEETS STA. 52+50.00 TO STA. 53+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	64
CONTRACT NO. 70800			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



FILE NAME =	USER NAME = hennessdm	DESIGNED -	REVISED -
ca:\pw\work\p\dot\hennessdm\00184799\0570800-ent-xssht-105west.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS C.H. 12 & IL 105 (WEST)**

SCALE: SHEET NO. 9 OF 9 SHEETS STA. 53+50.00 TO STA. 54+32.48

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
741	(8,9,10)CR	PIATT	65	65
CONTRACT NO. 70800			ILLINOIS FED. AID PROJECT	