STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR SUMMARY OF QUANTITIES, SEE SHEETS NO.4 & NO.5

PROPOSED HIGHWAY PLANS

FAP ROUTE 836 (IL ROUTE 49) **SECTION 119CR** PROJECTACF-0836(029)
CULVERT REPLACEMENT **CHAMPAIGN COUNTY**

21

28

1600N

1500N

1300N

1200N

C-95-081-07

R 14 W

DESIGN DESIGNATION 3,300 (2008) MINOR ARTERIAL IL.RTE.49

> SN010-8131(P); SN010-8101(E) STA. 1133 + 79 1 @ 12'x3'x37.5' PRCBC WPRECAST END SECTIONS

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED

0

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION -800-892-0123 OR 811

PROJECT ENGINEER: NANCY FASIG PROJECT MANAGER: TODD BLACK

CONTRACT NO. 70698

GROSS LENGTH = 500.00 FT. = 0.095 MILE NET LENGTH = 500 FT. = 0.095 MILE

SCALE

R 11 E

GLOVER

CHAMPAIGN 29 1





STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS & LIST OF HIGHWAY STANDARDS
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16	DETAIL OF EROSION CONTROL PLAN
17	DETAIL OF BOX CULVERT END SECTION
18	DETAIL FOR TREATMENT OF EXISTING FIELD TILE SYSTEMS
19	DETAIL OF STRUCTURAL EXCAVATION AND POROUS GRANULAR EMBANKMENT
20	DETAIL OF EXISTING REINFORCED BOX CULVERT
21-24	DETAIL OF TYPICAL APPLICATIONS OF PAVEMENT MARKINGS AND MARKERS
25 - 29	STATION CROSS SECTIONS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	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
442201-03	CLASS C AND D PATCHES
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 m (15') AWAY FROM EDGE OF PAVEMENT
701006-03	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
~ 701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
701206-02	

	FILE NAME =	USER NAME = blackrt	DESIGNED	-	RTB	REVISED	-
	c:\pw_work\PWIDOT\BLACKRT\d0124546\D576	698-SHT-GENNOTE.dgn	DRAWN	-	RTB	REVISED	4
		PLOT SCALE = 40.0344 '/ IN.	CHECKED	_		REVISED	~
1		PLOT DATE = 10/23/2009	DATE	-	09/2009	REVISED	~

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		INDEX	0F	SHEETS
		HIGHWAY	ST	ANDARDS
* 11/A ·	CUECT NO	OC. CUE	rrc	CTA

	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	836	119CR	CHAMPAIGN	29	2
			CONTRACT	NO. 7	0698
į		THE INOIS FED. AT	IN PROJECT		

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.

UTLILITY 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.-20

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 EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-280

TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL 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.-406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	Pavement Patch (F.D.) Binder	Pavement Patch (F.D.) Surface
Mixture Use(s):	**	*
AC/PG:	PG 64-22	PG 64-22
RAP %: (Max)**	25 %	15 %
Design Air Voids:	4 % @ N Design = 50	4 % @ N Design = 50
Mixture Composition: (Gradation Mixture)	IL 19.0	IL 9.5
Friction Aggregate:	N/A	Mix C

^{*} This mixture shall be used for the top 2" of Pavement Patch (F.D.)

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 ORAND 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.-542.07

AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

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.-781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01

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

NO COMMITMENTS ON THIS PROJECT

THE DESIGN REINFORCEMENT AREAS SHALL CONFORM TO THOSE FOUND IN TABLE 1 OF THE AASHTO M273 SPECIFICATION FOR A 12' x 4' BOX SECTION.

FILE NAME =	USER NAME = blackrt	DESIGNED - RTB	REVISED -		GENERAL NOTES	F.A.P	SECTION	COUNTY	TOTAL
c:\pw_work\PWIDOT\BLACKRT\dØ124546\D576	698-SHT-GENNOTE.dgn	DRAWN - RTB	REVISED -	STATE OF ILLINOIS	AND A AND THE THE THE	836	119CR	CHAMPAIGN	35
	PLOT SCALE = 40.0317 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO.
1	PLOT DATE = 10/23/2009	DATE - 09/2009	REVISED -		SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. /	AID PROJECT	

^{**}This mixture shall be used for the bottom lifts of Pavement Patch (F.D.)

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAP ROUTE 836 (IL 49)

CHAMPAIGN COUNTY

SN 010-8131

STA. 1129+75.00 to STA. 1139+25

RURAL TWO-LANE

80% FED

20% STATE

CONSTRUCTION TYPE CODE:

T00Y

			TOTAL
CODE NO	ITEM	UNIT	QUANTITY
X0326785	PRECAST CONCRETE BOX CULVERT END SECTIONS 12'X 3'	EACH	2.0
X542A485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30", TEMPORARY	FOOT	40.0
20400800	FURNISHED EXCAVATION	CUYD	25.0
20700220	POROUS GRANULAR EMBANKMENT	CUYD	55.0
* 25000200	SEEDING, CLASS 2	ACRE	0.1
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10.0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10.0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	. 10.0
*25100115	MULCH, METHOD 2	ACRE	0.1
¥ 25100630	EROSION CONTROL BLANKET	SQ YD	140.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10.0
28000305	TEMPORARY DITCH CHECKS	FOOT	114.0
28000400	PERIMETER EROSION BARRIER	FOOT	300.0
28000500	INLET AND PIPE PROTECTION	EACH	5.0
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQYD	100.0
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	100.0
40800010	BITUMINOUS MATERIALS(PRIME COAT)	GALLON	9.0
40800030	AGGREGATE(PRIME COAT)	TON	0.2
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	11.0

· SPECIALTY ITEMS

FILE NAME =	USER NAME = blackrt	DESIGNED - RTB	REVISED -		SUMMARY OF QUANTITIES		F.A.P RTÉ.	SECTION	COUNTY TOTAL SHEETS	SHEET NO.
c:\pw.work\pwidot\blackrt\d0124546\0570	98-SHT-500.dgn	DRAWN ~ RTB	REVISED -	STATE OF ILLINOIS			836	119CR	CHAMPAIGN 29	4
	PLOT SCALE = 40.0268 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 70	J698
	PLOT DATE = 10/23/2009	DATE - 09/2009	REVISED -		SCALE: N/A SHEET NO. 1 OF 2 SHEETS STA. TO	STA.		ILLINOIS FED. A	AID PROJECT	

SUMMARY OF QUANTITIES

LOCATION OF WORK:

FAP ROUTE 836 (IL 49)

CHAMPAIGN COUNTY

SN 010-8131

STA. 1129+75.00 to STA. 1139+25

RURAL TWO-LANE

80% FED

20% STATE

CONSTRUCTION TYPE CODE:

TOTAL

TO OY

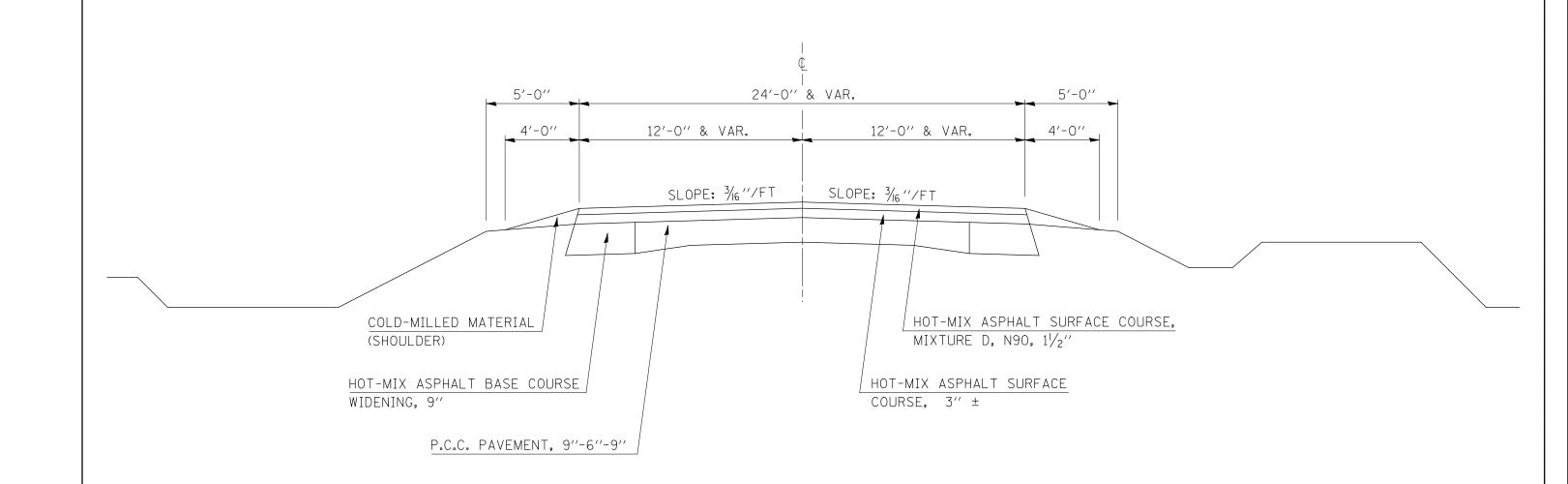
CODE NO	ITEM	<u>UNIT</u>	QUANTITY
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
50200100	STRUCTURE EXCAVATION	CUYD	75.0
54021203	PRECAST CONCRETE BOX CULVERT 12'X 3' (M273)	FOOT	37.5
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	300.0
67100100	MOBILIZATION	LSUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1.0
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1070.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1125.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	715.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1125.0
X4420099	CLASS D PATCHES, TYPE IV, 9 1/2 INCH	SQYD	90.0
Z0010555	DITCH CLEANING	FOOT	100.0

* SPECIALTY ITEMS

FILE NAME =	USER NAME = blackrt	DESIGNED - RTB	REVISED -			SUMMARY OF QUANTITIES		F.A.P RTF.	SECTION	COUNTY TOTAL SHEET NO.
c:\pw_work\pwidot\blackrt\d0124546\05706	98-SHT-S00.dgn	DRAWN - RTB	REVISED -	STATE OF ILLINOIS				836	119CR	CHAMPAIGN 29 5
	PLOT SCALE = 40.0268 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		<u> </u>				CONTRACT NO. 70698
	PLOT DATE = 10/23/2009	DATE - 09/2009	REVISED -		SCALE: N/A	SHEET NO. 2 OF 2 SHEETS STA.	TO STA.		ILLINOIS FED. A	AID PROJECT

EXISTING TYPICAL SECTION

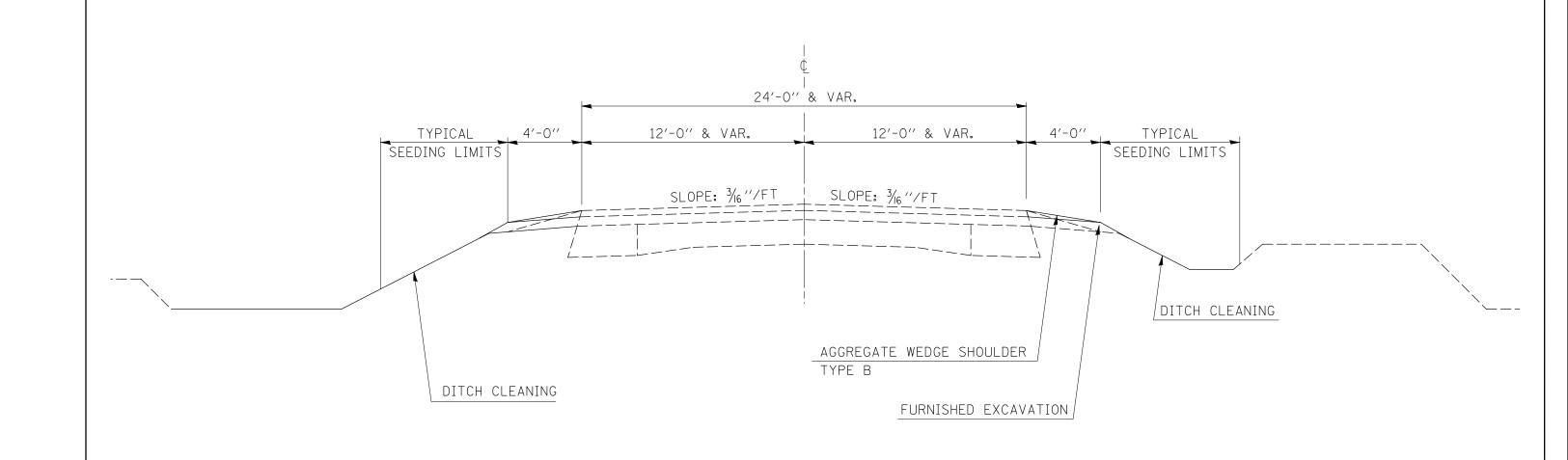
F.A.P. ROUTE 836 (IL ROUTE 49)
STATION 1131+00.00 TO STATION 1136+00.00



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c:\pw_work\pwidot\craigre\dØ124546\D570	98-SHT-TYPICAL.DGN	DRAWN - JRP	REVISED -	STATE OF ILLINOIS					119CR	CHAMPAIGN 29 6
	PLOT SCALE = 40,0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 70698	
	PLOT DATE = 10/23/2009	DATE - SEPTEMBER 2008	REVISED -		SCALE: N/A	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIS	T. NO. ILLINOIS FE	D. AID PROJECT

PROPOSED TYPICAL SECTION

F.A.P. ROUTE 836 (IL ROUTE 49)
STATION 1131+00.00 TO STATION 1136+00.00



FILE NAME =	USER NAME = craigre	DESIGNED	-	RTB	REVISED	-	
c:\pw_work\pwidot\craigre\d0124546\D5700	98-SHT-TYPICAL.DGN	DRAWN	-	RTB	REVISED	-]
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	PLOT DATE = 10/23/2009	DATE	-	10/2009	REVISED	-	

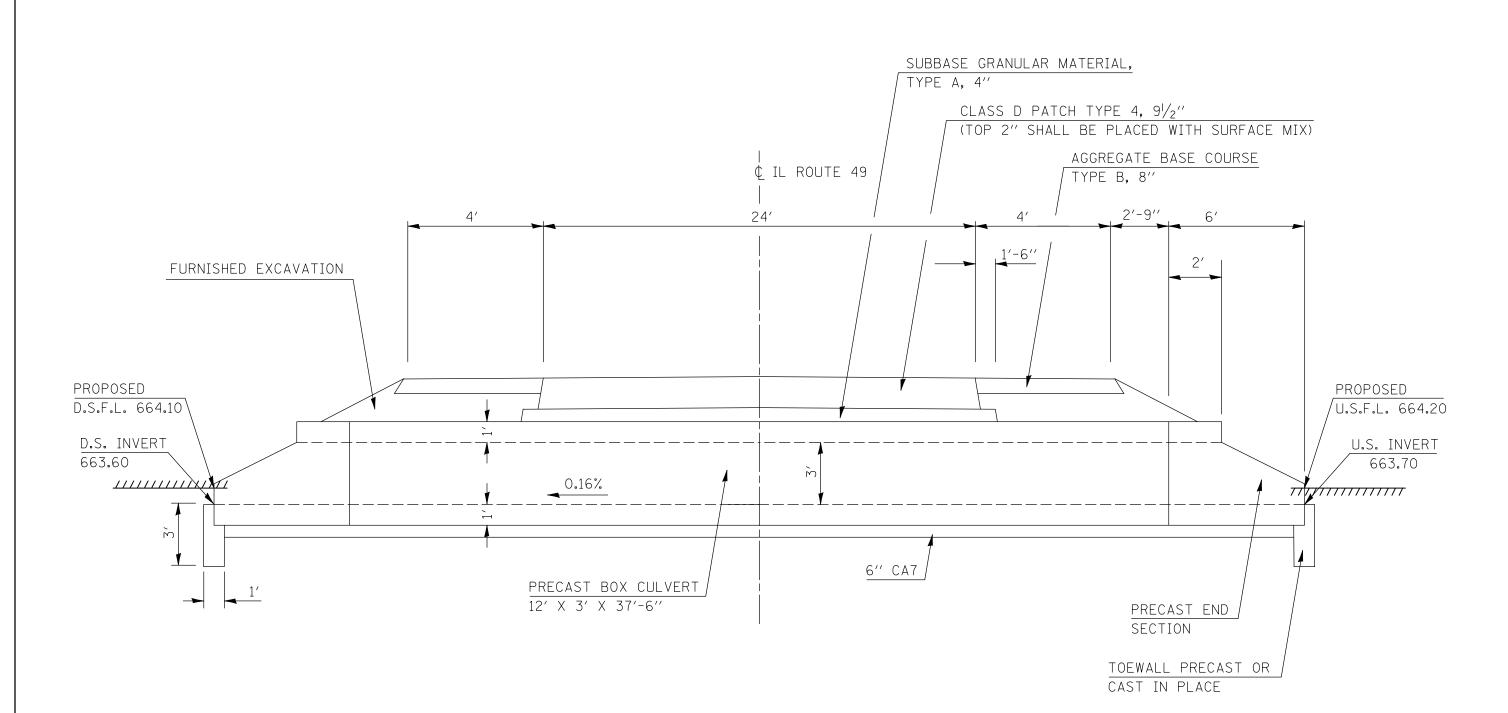
STATI	E OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

SCALE: N/A

					F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
PRO	POSED	TYPICA	L SECTION		836	119CR	CHAMPAIGN	29	7
FROTOSED TITICAL SECTION							CONTRACT	L NO.	70698
SHEET NO.	HEET NO. OF SHEETS STA. TO STA.				ILLINOIS FED.	AID PROJECT			

PROPOSED BOX CULVERT SECTION

F. A. P. ROUTE 836 (IL ROUTE 49)
S. N. 010-8131 - STATION 1133+79.00



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c:\pw_work\pwidot\craigre\d0124546\D570	98-SHT-TYPICAL.DGN	DRAWN - JJB	REVISED -	STATE OF ILLINOIS		PROPO:	SED BO	X CULVI	ERT SECTION		836	119CR	CHAMPAIGN	29	8
	PLOT SCALE = 40.00000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							'		CONTRACT	NO. 7	0698
	PLOT DATE = 10/23/2009	DATE - 3-3-2009	REVISED -		SCALE: N/A	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED.			

SCHEDULE OF QUANTITIES

EARTHWORK

									20700220
					Z0010555		20400800	50200100	POUROUS
					DITCH		FURNISH	STRUCTURE	GRANULAR
					CLEANING	EMBANK	EXCAVAT	EXCAVAT	EMBANK
LOCATION	STATION	TO	STATION	OFFSET	(FOOT)	(CUYD)	(CU YD)	(CU YD)	(CU YD)
RT DITCH CUT	1133+50.00		1134+50.00	16.0'RT - 25.0'LT	100.0				
LT EMBANKMENT	1133+00.00		1135+00.00	16.0' LT - 30.0' LT		7.9	7.9		
RT EMBANKMENT	1133+00.00		1135+00.00	16.0' RT - 25.0' RT		12.5	12.5		-
LT STRUCTURE	1133+64.50		1133+93.50	18.0' LT - 0.0' LT				37.5	27.5
RT STRUCTURE	1133+64.50		1133+93.50	0.0 RT - 18.0' RT				37.5	27.5
				TOTAL =	100.0	20.4	20.4	75.0	55.0
				USE =	100.0		25.0	75.0	55.0

ASSUME 25% SHRINKAGE FACTOR FOR EARTH EXCAVATION

SEEDING					25000400	25000500	25000600		28000250
				25000200	NITROGEN	PHOSPORUS	POTASSIUM	25100115	TEMP
				SEEDING	FERTILIZER	FERTILIZER	FERTILIZER	MULCH	EROS CTL
				CL 2	NUTRIENT	NUTRIENT	NUTRIENT	METHOD 2	SEEDING
STATION	TO	STATION	OFFSET	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	(POUND)
1133+00.00		1134+50.00	16.0' LT - 30.0'LT	0.05	4.5	4.5	4.5	0.05	5.0
1133+00.00		1134+50.00	16.0' RT - 35.0' RT	0.05	4.5	4.5	4.5	0.05	5.0
			TOTAL =	0.10	9.0	9.0	9.0	0.10	10.0
			USE =	0.10	10.0	10.0	10.0	0.10	10.0

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	PLOT SCALE = 40.0000 '/ IN.	CHECKED	-		REVISED	-	
	PLOT DATE = 10/23/2009	DATE	-	10/2009	REVISED	-	

STATI	: OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	SCHEDULE OF QU	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		836	119CR	CHAMPAIGN	29	9		
				CONTRACT	NO. 7	70698		
SCALE: N/A	CALE: N/A SHEET NO. 1 OF 3 SHEETS STA. TO STA.				ILLINOIS FED. A	ID PROJECT		

SCHEDULE OF QUANTITIES

28000400 PERIME	IETER	EROSION BA	RRIER			25100630 ERC	SIONC	ONTROL BLAN	<u>KET</u>		AVEDACE	
		STATION	TO	STATION	LENGTH (FOOT			STATION	TO STATION	LENGTH (FOOT	AVERAGE WIDTH (FOOT)	AREA (SQ YD)
	LT	1133+00.00		1134+50.00	150.0	BOX CULV	LT	1133+65.00	1133+90.00	25.0	10.0	30.0
ROW	RT	1133+00.00		1134+50.00	150.0							
				TOTAL =	300.0	DITCH	RT	1133+00.00	1135+00.00	200.0	4.0	90.0
				USE =	300.0							
						BOX CULV	RT	1133+65.00	1133+90.00	25.0	6.0	20.0
61100500 EXPLOR	RATIO	N TRENCH, 52	<u>"</u>									
					LENGTH						TOTAL =	140.0
		STATION	TO	STATION	(FOOT					_	USE =	140.0
ROW L	LT	1133+00.00		1134+50.00	150.0							
		1133+00.00		1134+50.00	150.0							
						28000500 INLE	T & PIF	PE PROTECTION				
				TOTAL =	300.0							
			_	USE =	300.0	STATION		<u>OFFSET</u>		(EACH)		
						1133+79.00		20.0' LT	SN 010-810	1 1.0		
						1133+79.00		45.0' LT	SN 010-813	1 1.0		
28000305 TEMPOR	RARY	DITCH CHECK	<u>(S</u>			1133+79.00		20.0' RT	SN 010-810			
						1133+79.00		45.0' RT	SN 010-813			
STATION		OFFSET		(EACH)		1133+95.00		37.0' LT	FIELD INLET	1.0		
1132+00.00		40.0' LT		25.0					TOTAL =	5.0		
1132+00.00		25.0' RT		6.0								
1133+15.00		50.0' LT		20.0					USE =	5.0	-	
1133+15.00		34.0' RT		6.0								
1134+43.00		45.0' LT		25.0		50100100 REM	OVAL E	EXISTING STRU	CTURE			
1134+43.00		32.0' RT		6.0								
1134+43.00		54.0' RT		20.0		STATION			(EACH)			
1136+00.00 1136+00.00		35.0' LT 24.0' RT		20.0 6.0								
				5.0		1133+79.00		SN 010-810	1.0			
1100.00.00												
			TO1					TOTAL =	1.0			

35102000 AGGREGATE BASE COURSE, TYPE B, 8 INCH

		STATION	Ю	STATION	LENGTH (FOOT	WIDTH (FOOT)	AREA (SQ YD)
	.T RT	1133+24.00 1133+24.00		1134+34.00 1134+34.00	110.0 110.0	4.0 4.0	50.0 50.0
_						TOTAL =	100.0
					_	USE =	100.0

#5000910 PIPE CULVERTS, EQV R-S 30" TEMPORARY

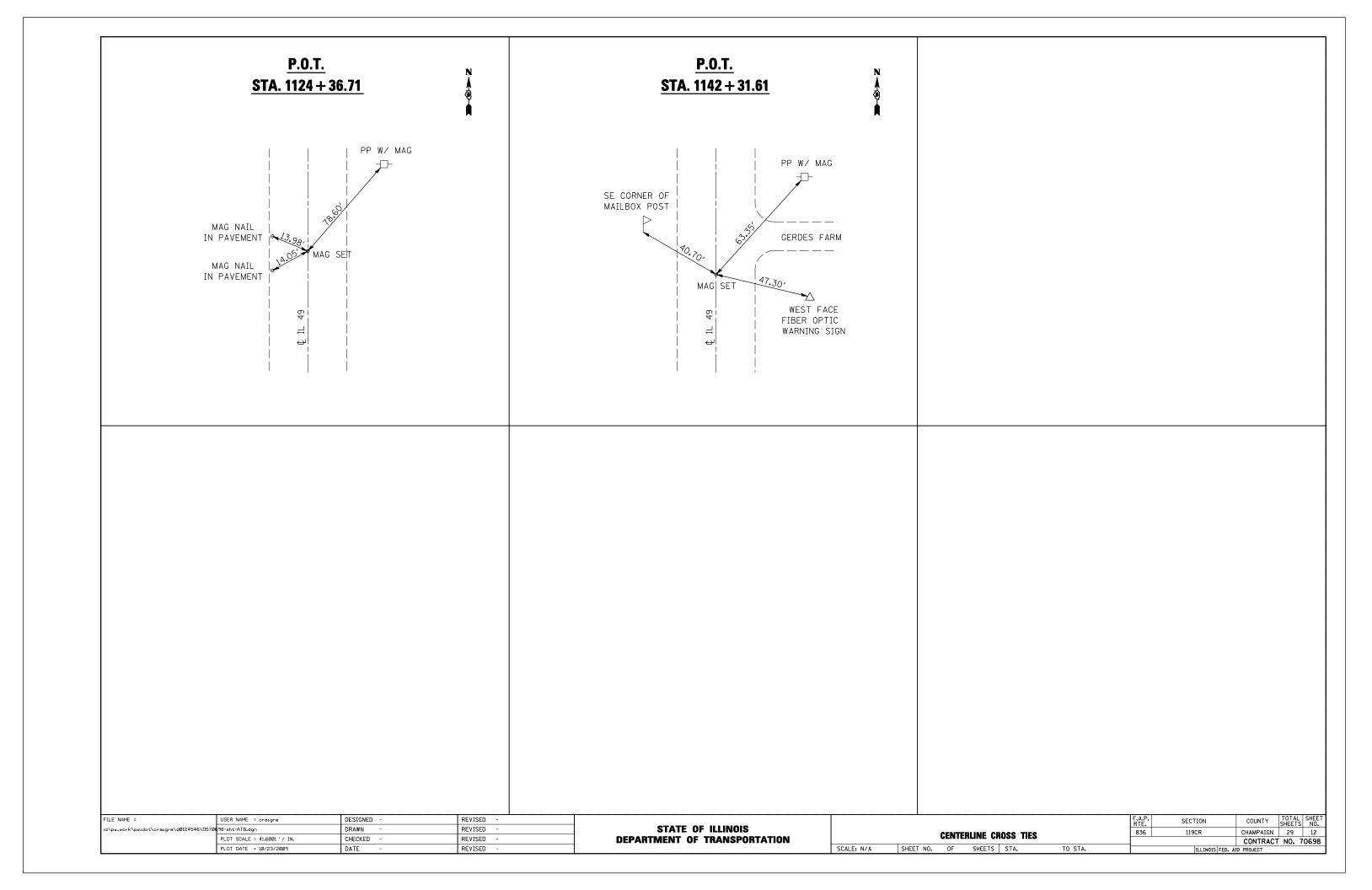
STATION	OFFSEI		(FOO1)
1133+79.00	4.0' RT - 24.0' RT		40.0
		TOTAL	40.0
		USF =	40.0

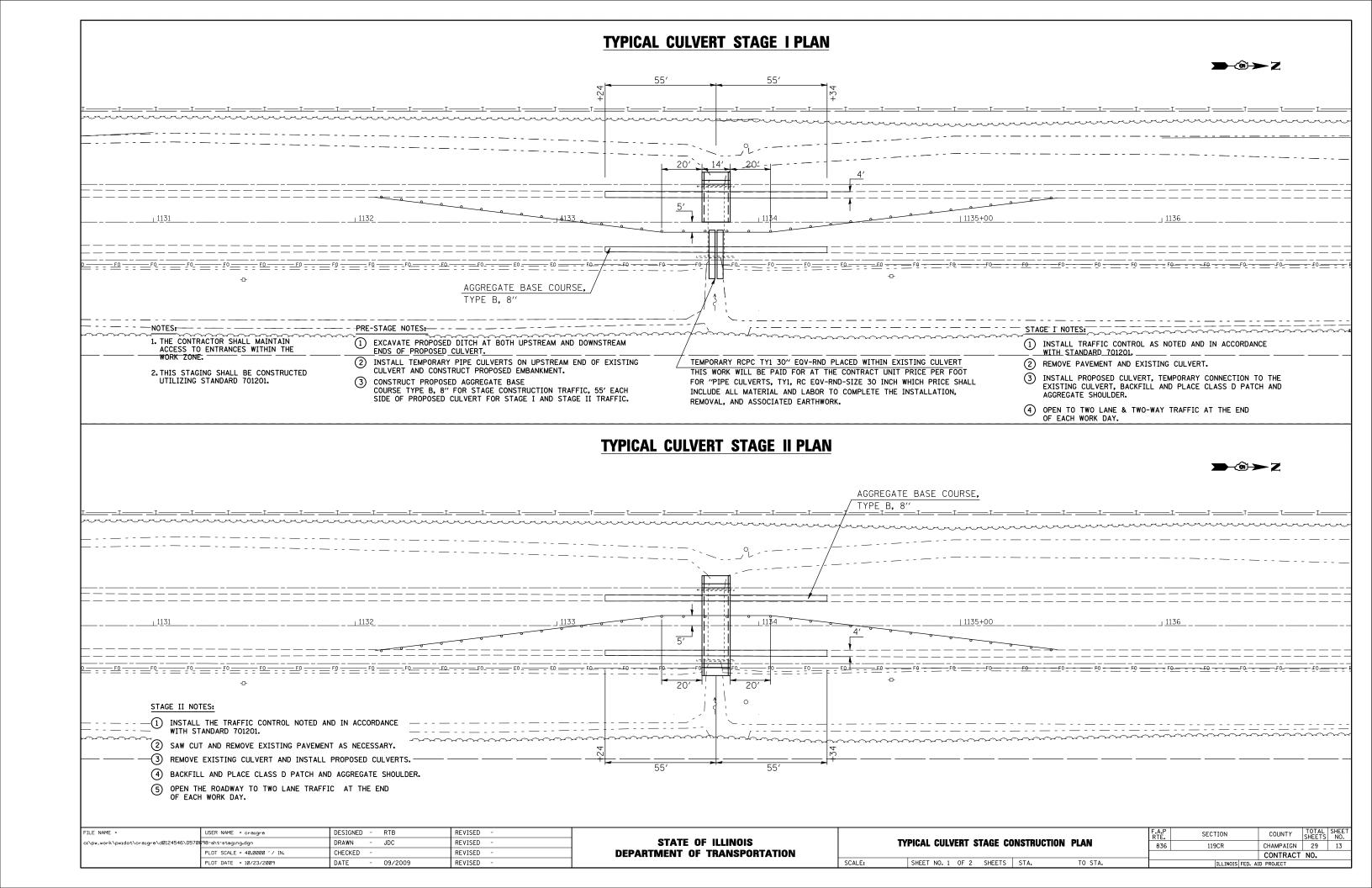
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	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			- I		CONTRACT	NO. 7069	8
	PLOT DATE = 10/23/2009	DATE - 10/2009	REVISED -		SCALE N/A SHEET NO. 3 OF 3 SHEETS STA. TO STA.	F		TILITNOIS EED AT	IN DOUBLET		\neg

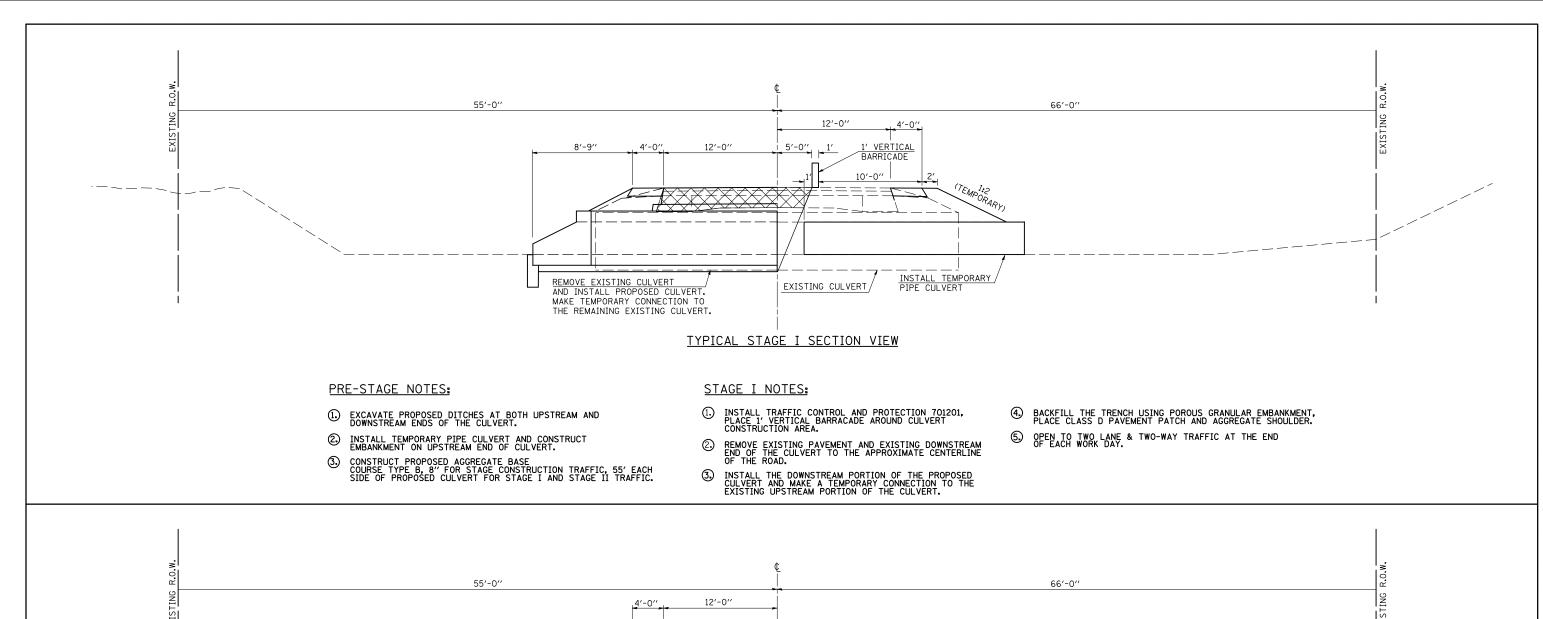
SCHEDULE OF QUANTITIES

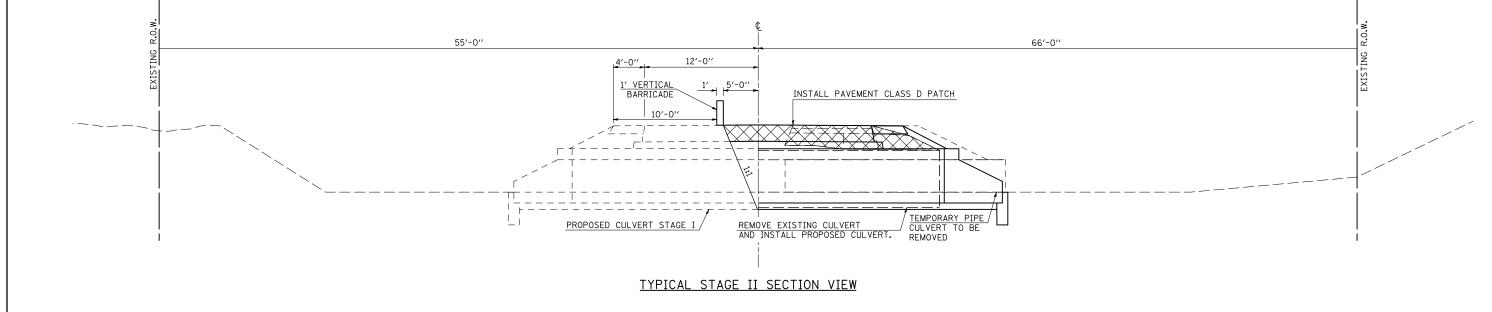
<u>31100</u>	300 SUB-BASE	GRANL	ILAR MATERIAL	.A 4"			48102100 A	GGREGATE W	EDGE SI	HOULDER, TYP	EB			SHOULDER			<u>5</u>	402120	3 PRE-	CAST BOX CULVERT 12	X 3 (M273)
				LENGTH	WIDTH	AREA				L	ENGTH	WIDTH	AREA	THICKNESS				STAT	<u>ION</u>		(FOOT)
	STATION	IQ	STATION	(FOOT	(FOOT)	(SQ YD)	<u>\$1</u>	ATION TO	STA	ATION	(FOOT	(FOOT)	(SQ YD)	(INCHES)	(TON)			1133+	79 00	SN 010-8131	37.5
LT	1133+62.50		1133+95.50	33.0	13.5	49.5												1100	10.00		
RT	1133+62.50		1133+95.50	33.0	13.5	49.5	LT 113	3+15.00	1134	+50.00	135.0	4.0	60.0	1.50	5.2		_			TOTAL =	37.5
					TOTAL =	99.0		3+15.00		+50.00	135.0	4.0	60.0	1.50	5.2					USE =	37.5
					USE =	100.0								TOTAL =	10.4						
														U0E -							
X4420	1099 CLASS D.I	PATCH.	TYPE 4, 9 1/2 INC	CH										USE =	11.0						
7.772	,000 OD 100 D 1	HIGH	111 24,0 1/2116																		
	STATION	<u>TO</u>	STATION	LENGTH (FOOT	WIDTH (FOOT)	AREA (SQ YD)	<u>70300100 \$</u>	HORT-TERM F	PAVEME	NT MARKING							#50008	362 PRE	-CAST	BOX CULVERT END SEC	TION 12 X 3
															70301000			STAT	ION		(EACH)
LT RT	1133+62.50 1133+62.50		1133+95.50 1133+95.50	33.0 33.0	12.0 12.0	44.0 44.0								7E+07	WK ZN PVT MK		LT	1133+7	70.00	SN 010-8131	1.0
13.1	1100102.00		1100190.00	55.0	12.0	44.0					В	INDER	SURFACE	TOTAL	REM			1133+7		SN 010-8131	1.0
					TOTAL =	88.0		STATIO	N I	STATION		FOOT	FOOT	FOOT	SQFT						
					USE =	90.0	LT SHLD	1133+24	00	1134+34.0	00	110.0	110.0	22.0	3.6		_			TOTAL =	2.0
				_	OOL-	<u> </u>	CL	1133+24		1134+34.0		110.0	110.0	22.0	3.6					USE =	2.0
							RT SHLE			1134+34.0		110.0	110.0	22.0	3.6						
40800	010 BITUMINO	OUS MA	TERIALS PRIME	COAT			CLOSUR	E 1133+00	.00	1136+00.0	00			1000.0	701.3						
													TOTAL =	1066.0	712.2						
	STATION	TO	STATION	LENGTH (FOOT	WIDTH (FOOT)	(GALLON)							USE =	1070.0	715.0						
LT RT	1133+62.50 1133+62.50		1133+95.50 1133+95.50	33.0 33.0	12.0 12.0	4.4 4.4	70300220 1	EMPORARY P	AVEMEI	NT MARKING -	LINE 4"					78001110 PAIN	Γ PAVEME	NT MA	RKING	- LINE 4"	
				33.0																	
					TOTAL =	8.8	WHITE	STA1	<u>ION</u>	TO STAT	<u>ION</u>		(FOOT)			WHITE	STAT	ION	<u>10</u>	STATION	(FOOT)
				_	USE =	9.0	LT EO		00.00	1136+0			500.0			LT EOP	1131+			1136+00.00	500.0
							RT EO	P 1131+	00.00	1136+0	00.00		500.0			RT EOP	1131+	00.00		1136+00.00	500.0
408000	30 AGGREGA	ATE PRI	ME COAT							SUB-TOTAL W	/HITE =		1000.0						SUB-1	TOTAL WHITE =	1000.0
				LENGTH	WIDTH		YELLO	N STAT	ION	TO STAT	ION					YELLOW	STAT	ION	TO	STATION	
	STATION	<u>TO</u>	STATION	(FOOT	(FOOT)	(TON)															
	1400.00.50		4400.05.50		40.0	0.4	CL	1131+	00.00	1136+0	00.00		125.0			CL	1131+	00.00		1136+00.00	125.0
LT RT	1133+62.50 1133+62.50		1133+95.50 1133+95.50	33.0 33.0	12.0 12.0	0.1 0.1			SI	JB-TOTAL YEL	LOW =		125.0					S	UB-TO	TAL YELLOW =	125.0
					TOTAL =	0.3				T	OTAL =		1125.0						_	TOTAL =	1125.0
					IOIAL -	0.2					USE =		1125.0							USE =	1125.0
				-	USE =	0.2					U3E =		1120.0						_	USE =	1125.0

ſ	FILE NAME =	USER NAME = blackrt	DESIGNED - RTB	REVISED -			SCHEDULE OF QUANTITIES		F.A.P	SECTION	COUNTY CHEET	SHEET
	c:\pw_work\pwidot\blackrt\dØ124546\D5700	98-SHT-SCHEDULE.dgn	DRAWN - RTB	REVISED -	STATE OF ILLINOIS		CONLEGED OF GOARTHIES		836	119CR	CHAMPAIGN 29	11
		PLOT SCALE = 40.00000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO.	70698
		PLOT DATE = 10/23/2009	DATE - 10/2009	REVISED -		SCALE: N/A	SHEET NO. 2 OF 3 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	







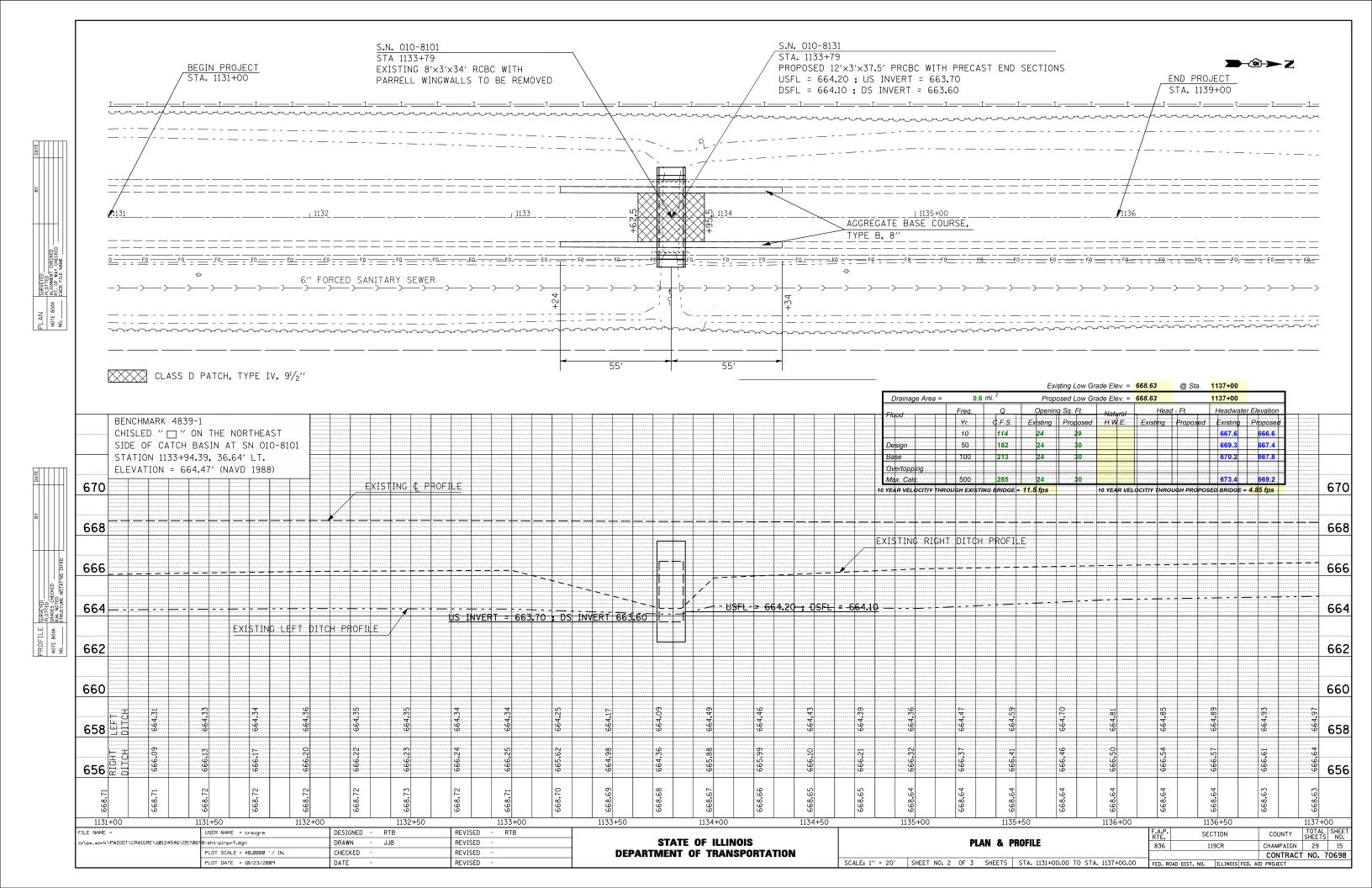


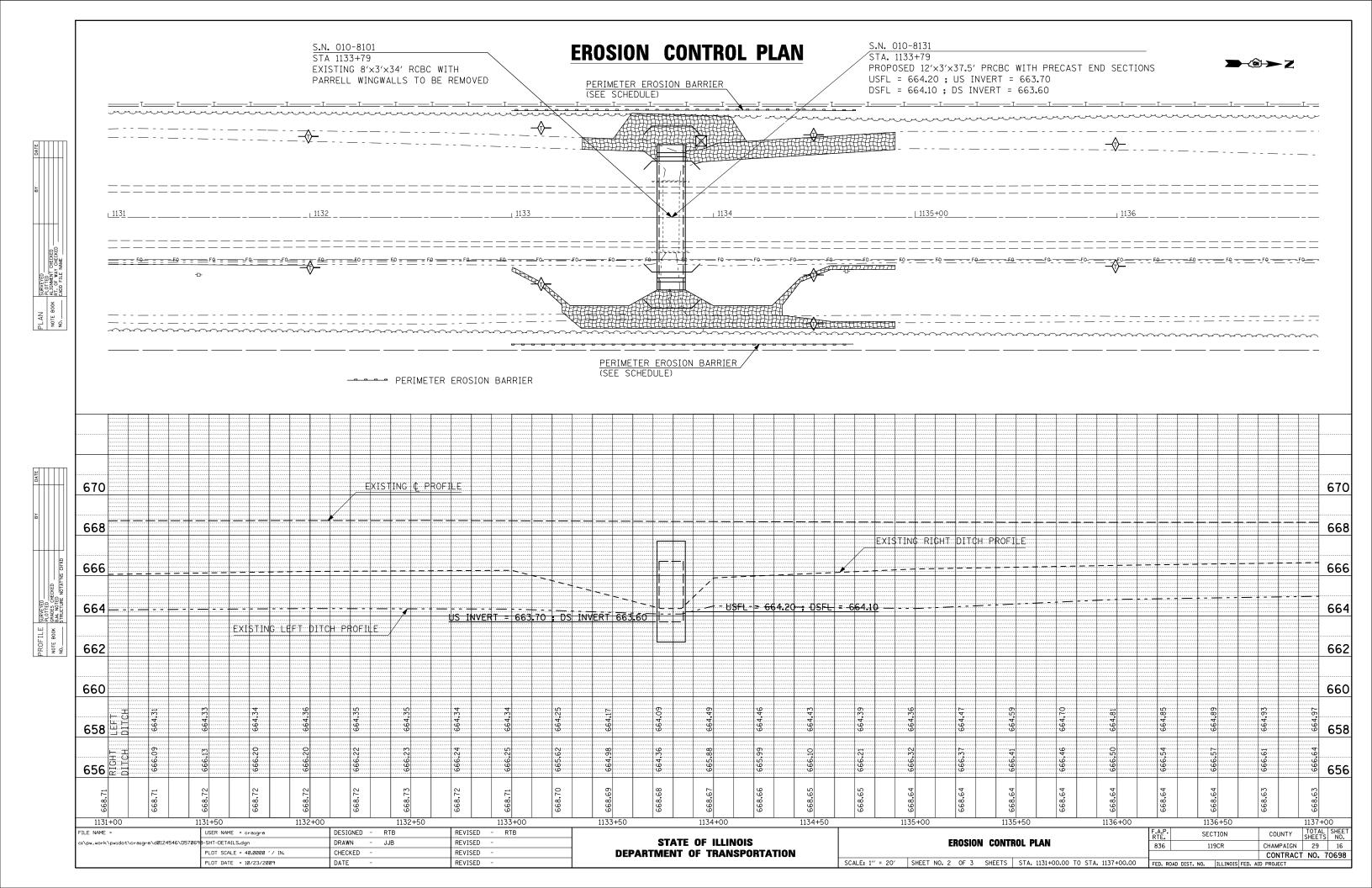
STAGE II NOTES:

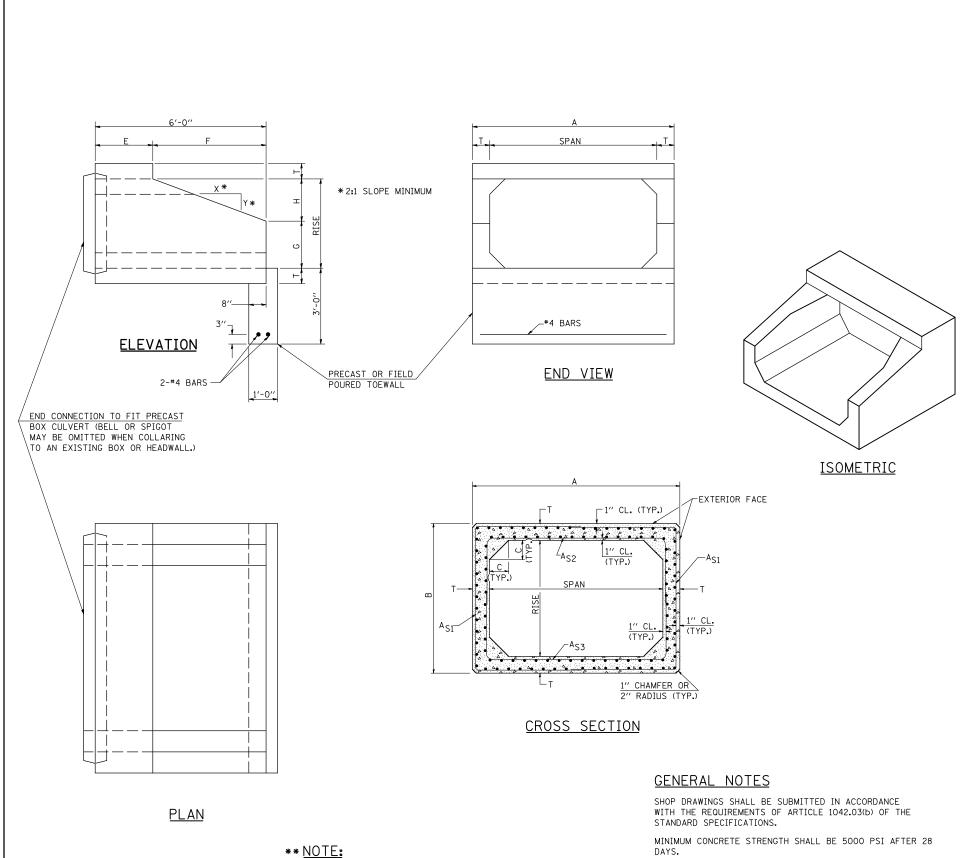
- 1. INSTALL TRAFFIC CONTROL PROTECTION 701201.
- SAW CUT AND REMOVE PAVEMENT AND PART OF CLASS D PATCH AS NECESSARY FOR CULVERT REMOVAL AND REPLACEMENT.
- 3 REMOVE TEMPORARY CONNECTION, EXISTING CULVERT AND TEMPORARY PIPE CULVERT. INSTALL THE PROPOSED CULVERT AND BACKFILL.
- (4) INSTALL THE CLASS D PAVEMENT PATCH AND PROPOSED AGGREGATE SHOULDER.
- (5) OPEN THE ROADWAY TO TWO LANE TRAFFIC AT THE END OF EACH WORK DAY.

COUNTY TOTAL SHEETS NO.

CHAMPAIGN 29 14 DESIGNED - RTB REVISED - RTB FILE NAME = SECTION STATE OF ILLINOIS DRAWN JJB REVISED RTB TYPICAL CULVERT STAGE CONSTRUCTION PLAN 836 119CR LOT SCALE = 100.0000 '/ IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70698 SHEET NO. 2 OF 2 SHEETS STA. DATE REVISED







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 M259. REINFORCE-MENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

STATE OF

DEPARTMENT OF

Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.
DISTRICT F DETAIL NO FACOLADA

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DIMENSIONS **

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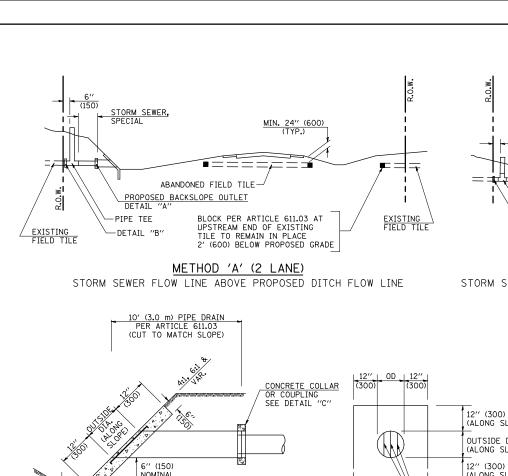
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F 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ВОХ	CULV	ERT END	SECTIO	N	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F_ILLINOIS		(PRECAST OPTION)						119CR	CHAMPAIGN	29	17
TRANSPORTATION			/r 11E-	UAU! U!	11011,				CONTRAC	NO. 7	0698
	SCALE, N/A	SHEET NO	OΕ	SHEETS	AT2	ATS OT		THE THOTO FED. AT	D DDO IECT		

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.

STD. 9-50 (FROM DISTRICT 9)

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED - RTB
c:\pw_work\pwidot\craigre\dØ124546\D5706	98-SHT-DETAILS.dgn	DRAWN - JJB	REVISED -
	PLOT SCALE = 40.00000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 10/23/2009	DATE - 3-3-2009	REVISED -



SIDE VIEW

END VIEW

ELEVATION

6" (150)

6" (150)

PIPE DRAIN

OUTSIDE DIA. PLUS 6" (150)

(ALONG SLOPE)

DETAIL OF RE-BARS

HEADWALL FOR BACKSLOPE OUTLET

WELDED WIRE FABRIC

PROPOSED PIPE

DRAIN

CONCRETE COLLAR

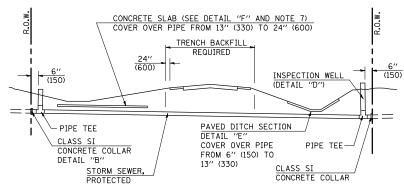
DETAIL "B"

EXISTING FIELD TILE OR
PROPOSED STORM SEWER, SPECIAL
OR STORM SEWER, PROTECTED

CLASS SI COLLAR

DETAIL "C"

DETAIL "A'



METHOD 'B' (2 LANE)

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

12" (300)

(ALONG SLOPE)

(ALONG SLOPE)

(ALONG SLOPE)

(TOE WALL)

#4 (10) RE-BARS @ ± 3" (75) CTS. BEND TO FIT

900000

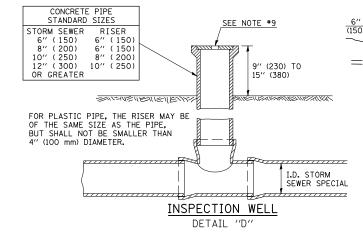
SIDE VIEW

(150)

SIDE

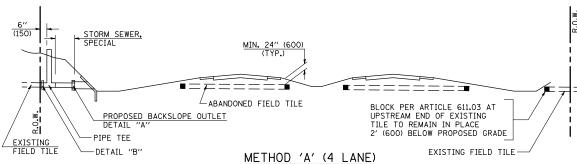
END VIEW

OUTSIDE DIAMETER

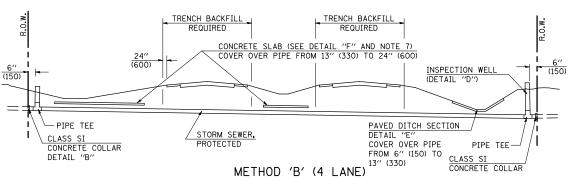


GENERAL NOTES

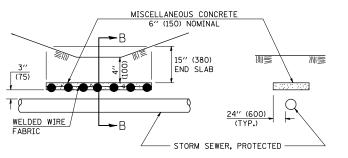
- 1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- 2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- 3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- 8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED
- 9. 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

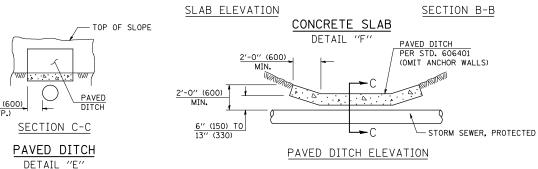


STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



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





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

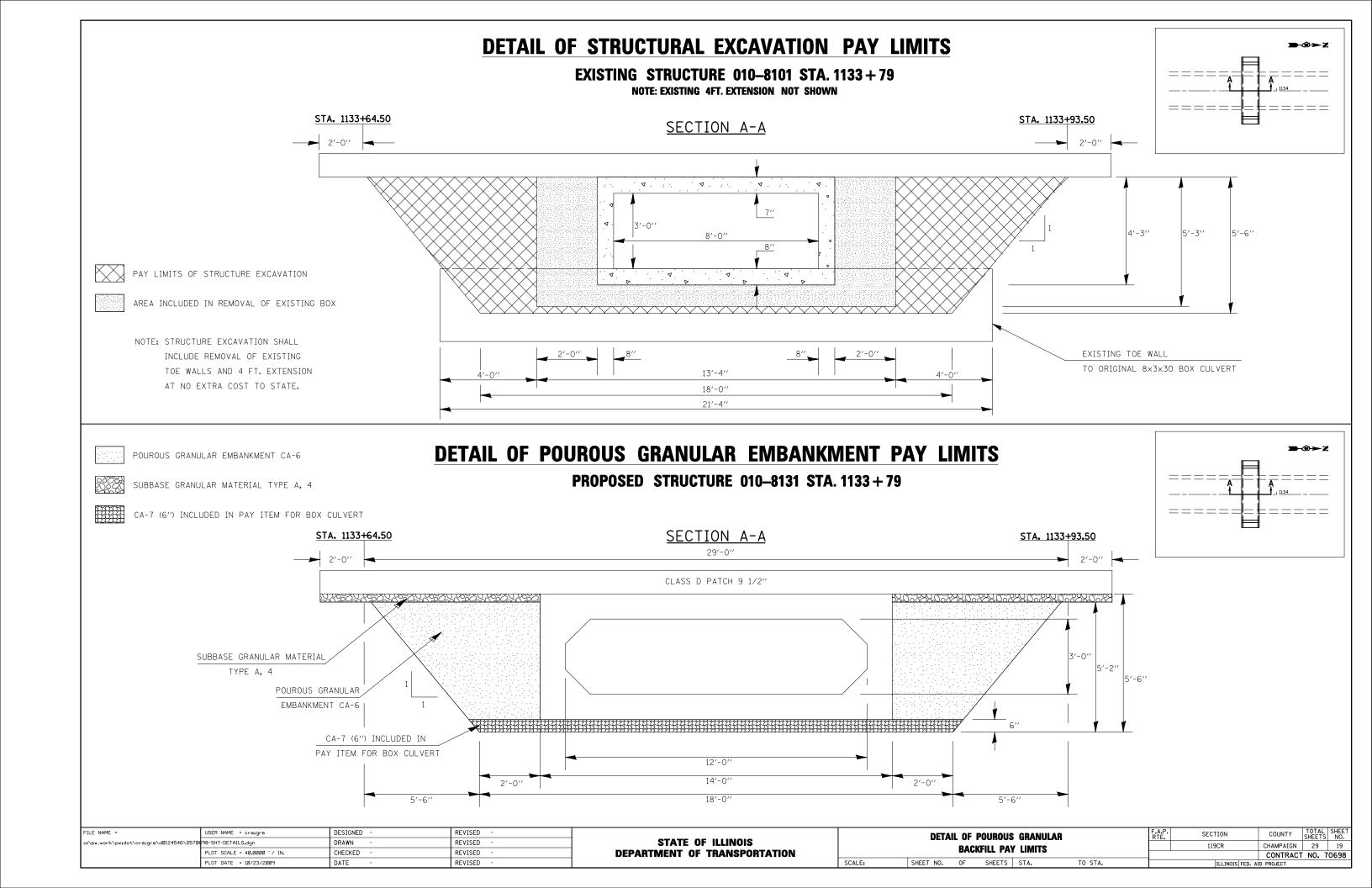
DISTRICT 5 DETAIL NO. 61101011A

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED - 11/06
c:\pw_work\pwidot\craigre\d0124546\D5706	98-SHT-DETAILS.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 10/23/2009	DATE -	REVISED -

STATE	0F	ILLINOIS
DEPARTMENT (DF 1	TRANSPORTATION

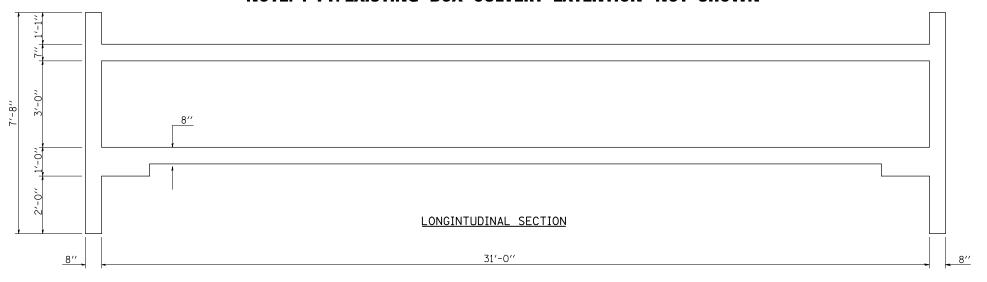
SCALE: N/A

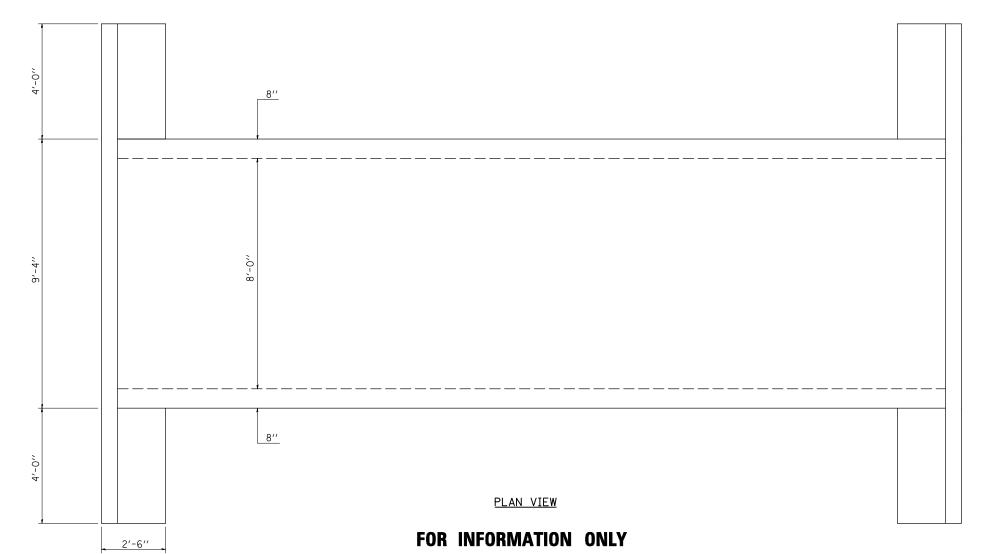
						F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FIE	LD TILE S	YSTEM	S (TREAT	MENT 0	F EXISTING)	836	119CR	CHAMPAIGN	29	18
								CONTRAC	T NO. 7	0698
	SHEET NO.	OF	SHEETS	STA.	TO STA.	EED BO	OAD DIST NO THINNIS FED	ATD PROJECT		



EXISTING REINFORCED BOX CULVERT

NOTE: 4 FT. EXISTING BOX CULVERT EXTENTION NOT SHOWN



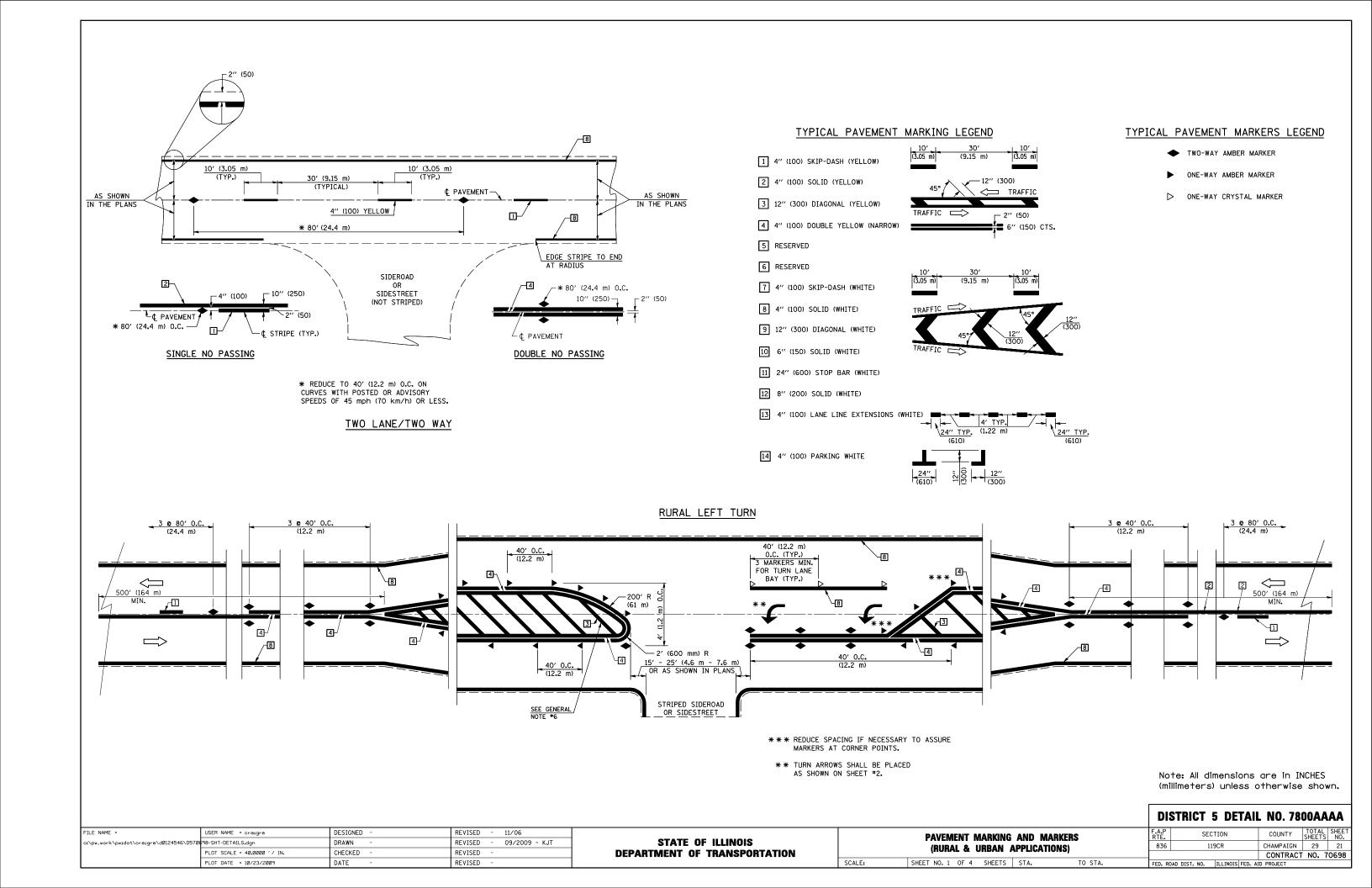


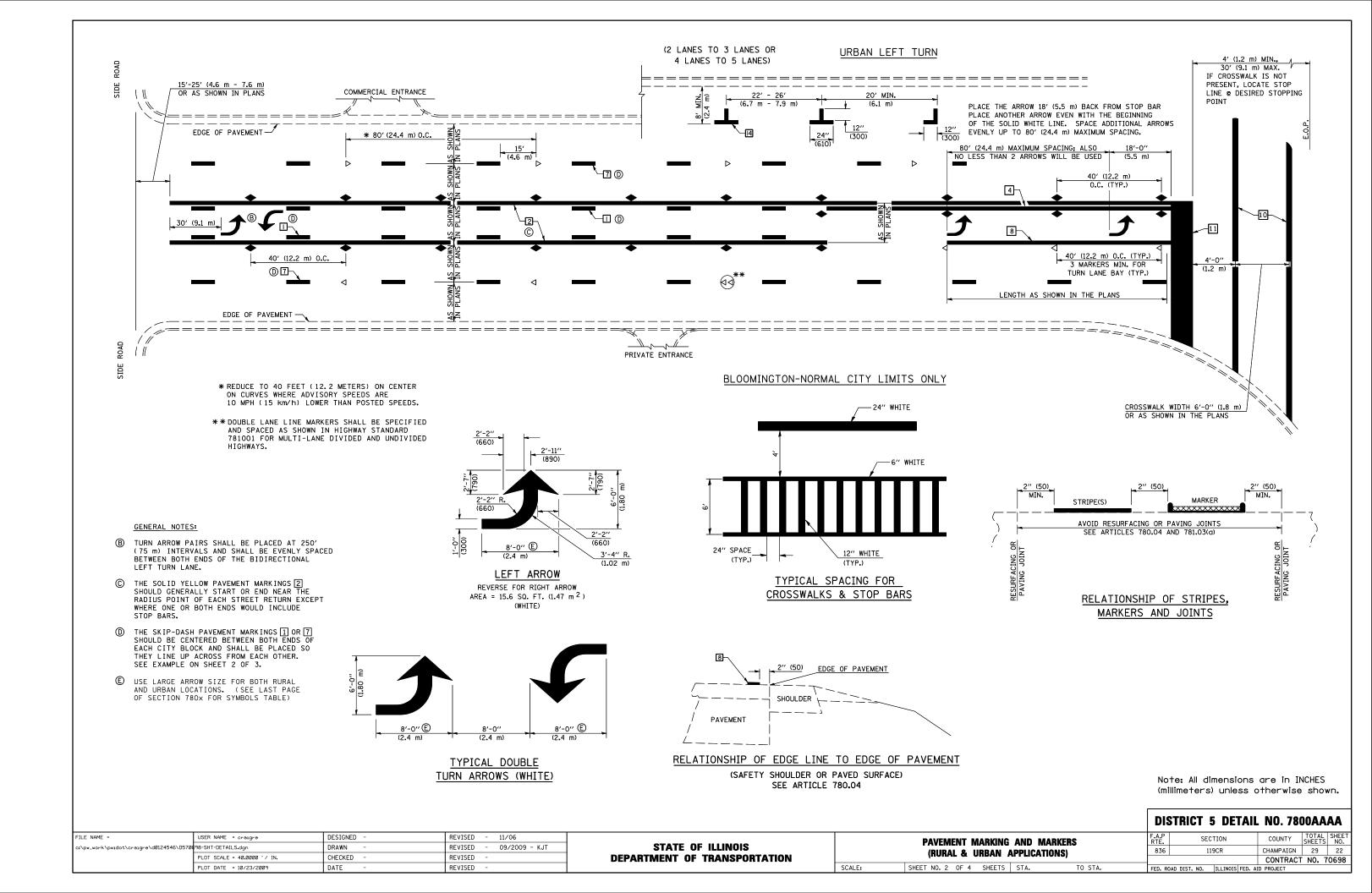
	BILL OF MATERI	ALS
STRUCTURE REMOVAL SUB-TOTAL	ORIGINAL 8'x3'x30' BOX CULVERT	20.1 CU. YD.*
STRUCTURE REMOVAL SUBTOTAL	4 FT. * EXTENSION (NOT SHOWN)	7.6 CU. YD.*
STRUCTURE F	27.7 CU. YD.	

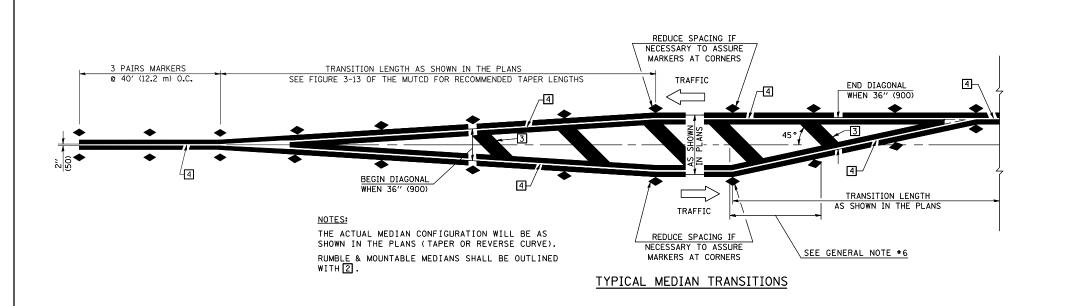
* NO READABLE PLANS AVAILABLE ESTIMATED QUANTITY

REINFORCEMENT DETAILS NOT SHOWN

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED -								F.A.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\craigre\d0124546\D5706	98-SHT-DETAILS.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		EXISTING	CONCRE	ETE BOY	₹ CULVER 7	PLAN	836	119CR	CHAMPAIGN	N 29	20
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRA	CT NO.	70698
	DIOT DATE - 10/22/2000	DATE -	DEVICED -		SCALE, NIZA	SHEET NO	OΕ	CHEETC	CTA	TO STA	550 DAV		10 EED 110 DD0 1507		

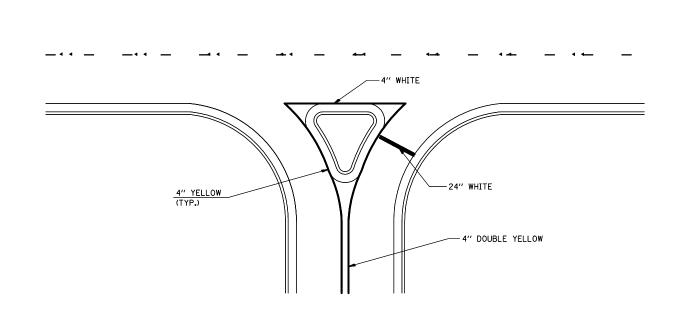




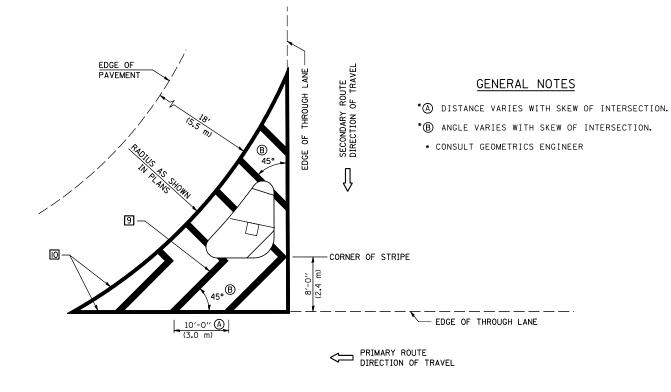


GENERAL NOTES

- 1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
- SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
- 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.
- 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



<u>ISLAND</u>

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

							DISTRI	CT 5 DETAIL	L NO. 7800AAAA
FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED - 11/06			PAVEMENT MARKING AND MARKERS	F.A.P	SECTION	COUNTY SHEET
c:\pw_work\pwidot\craigre\d0124546\D5706	98-SHT-DETAILS.dgn	DRAWN -	REVISED - 09/2009 - KJT	STATE OF ILLINOIS		(RURAL & URBAN APPLICATIONS)	836	119CR	CHAMPAIGN 29 23
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		(NUNAL & UNDAN APPLICATIONS)			CONTRACT NO. 70698
	DI DT DATE - 10/22/2000	DATE _	DEVICED -		SCALE.	SUEET NO 3 OF A SUEETS STA TO STA	550 00:0 DIO		ID DDG IFOT

APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT. IS USE TABLE 2C-4 FROM THE (3.05 m) WINDOW MUTCO MANUAL FOR THIS DISTANCE **MINIMUM Distance 400' for 55 MPH 250' for 45 MPH 100' for 35 MPH or Less 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 BETLACED ADJACENT TO EACH OTHER IN

PAVEMENT MARKINGS AT

RAILROAD-HIGHWAY GRADE CROSSING

EACH LANE.

OF THE MUTCD.

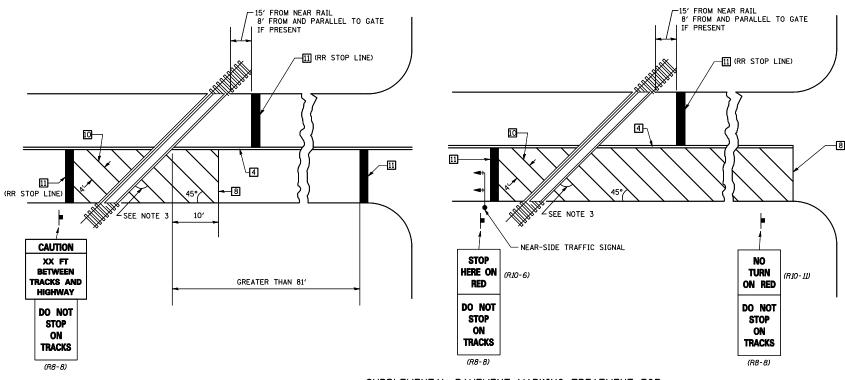
WHEN THE PAVEMENT MARKING SYMBOL

TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B

IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

SCALE:

GENERAL NOTES

- SUPPLEMENTAL PAYEMENT 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.
- 3. 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.

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	PLOT DATE = 10/23/2009	DATE -	REVISED -	

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

PAVEMENT (RURAL &	URBAN A	APPLICAT	
SHEET NO. 4 OF	4 SHEETS	STA.	TO STA.

F.A.P RTE.		SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.
836	836 119CR				CHAMPAIGN	29	24	
						CONTRACT	NO. 7	0698
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