

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermilion	31	1
		ILLINOIS	CONTRACT NO. 70594	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 697 (IL 9)
SECTION 46BR
PROJECT ACF-0697(032)
VERMILION COUNTY

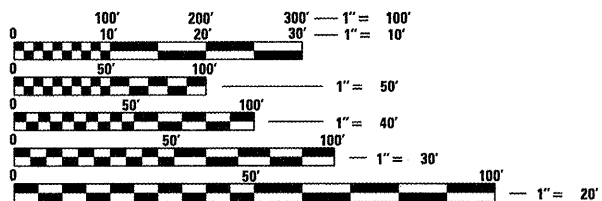
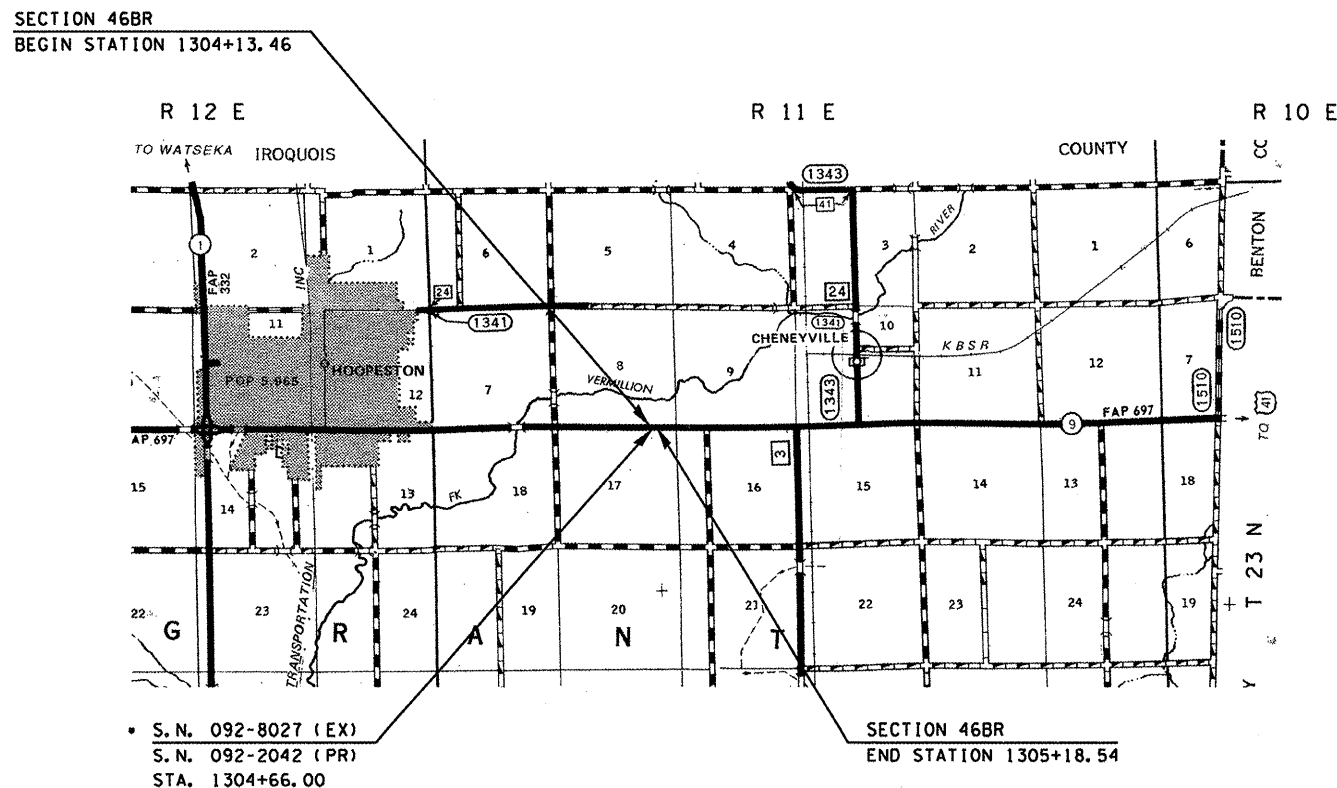
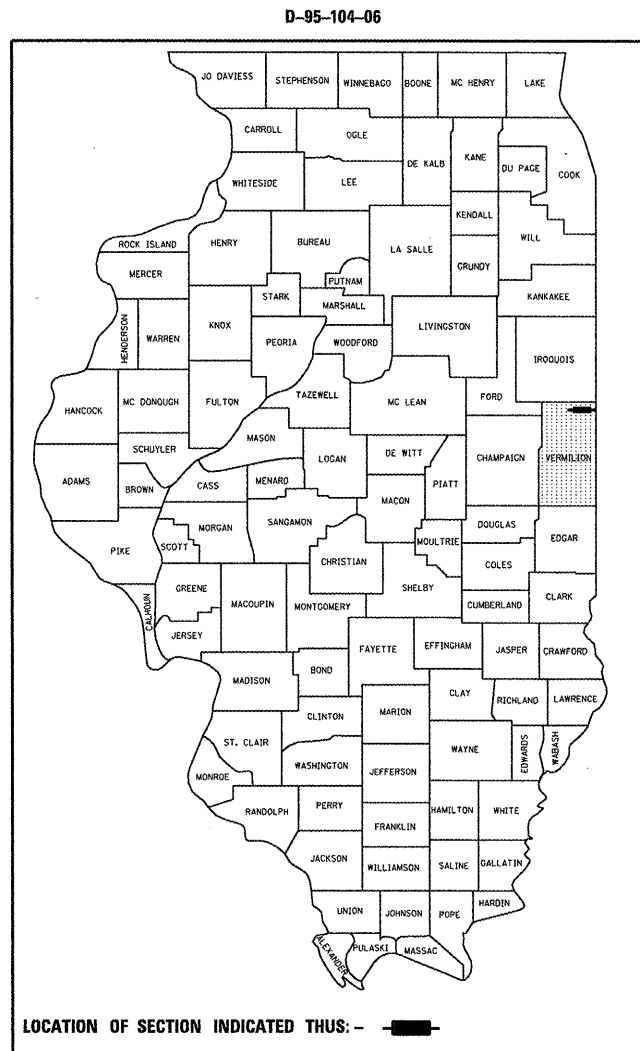
C-95-104-06

BOX CULVERT REPLACEMENT
DITCH 1.8 MILES EAST OF HOOPESTON

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

CURRENT ADT (2009):
LEG "A" (ECL HOOPESTON TO CH3): 1,650

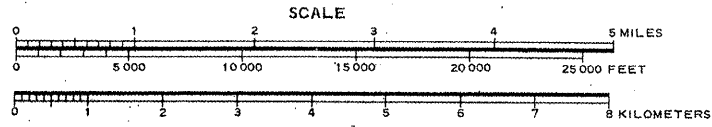
- STRUCTURE REPLACEMENT: S.N. 092-8027 (EX); S.N. 092-2042 (PR)
STA. 1304+66.00



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 MANAGER: DANA HENNESS
SQUAD LEADER: MICHAEL LEROY
CONTRACT NO. 70594



GROSS LENGTH = 105.08 FT. = 0.020 MILE
NET LENGTH = 105.08 FT. = 0.020 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 10/20 20 09

Joseph E. Rowson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

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

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

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OF THE STATE OF ILLINOIS

PLOT DATE = 10/19/2009
FILE NAME = G:\p\d\w\k\p\w\001\CEARL\CK\J\0132042\0570594-sht-ccover.dgn
PLOT SCALE = 40:0000 1/ IN.
USER NAME = cebrickg

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LIST OF HIGHWAY STANDARDS

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
515001-03	NAME PLATE FOR BRIDGES
602301-02	INLET - TYPE A
604036-02	GRATE TYPE 8
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-01	PERMANENT SURVEY MARKERS
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-02	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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) 692-0123 OR 811.

G.N.-202

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.-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.-406

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406.05B

ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION	IL 9	IL 9	IL 9
MIXTURE USE	CLASS D PATCH (TOP 1 1/2")	CLASS D PATCH (BOTTOM 7 1/2")	SURFACE 30' MILLED AREAS
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	15	25	15
DESIGN AIR Voids	4.0% @ Ndes = 50	4.0% @ Ndes = 50	4.0% @ Ndes = 50
MIX COMP (GRADATION)	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX C	N/A	MIX C

G.N.-440 (SPECIAL)

SPECIAL ATTENTION IS DIRECTED TO THE LAST SENTENCE OF ARTICLE 440.04 WHICH STATES: "MILLED PAVEMENT SHALL BE RESURFACED WITHIN TEN CALENDAR DAYS." THE CONTRACTOR SHALL SCHEDULE ACTIVITIES TO ACCOMPLISH THIS REQUIRED SPECIFICATION.

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 (P'S, P'T'S AND P'IS). 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 (9m) 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.

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.

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\ph_work\PH1001\CEARLOCKJD\0132042\	579594-shr-gennote.dgn	DRAWN -	REVISED -		697	46BR	Vermilion	31	3			
	PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 70594				
	PLOT DATE = 10/19/2009	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

FAP 697 (IL 9)
 VERMILION COUNTY
 STATION 1304+13.46
 TO
 STATION 1305+18.54
 RURAL 2-LANE
 80% FEDERAL
 20% STATE
 Y007

LOCATION OF WORK:

CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY
X542A447	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 42", TEMPORARY	FOOT	23.0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	186.0
20400800	FURNISHED EXCAVATION	CU YD	45.0
20700220	POROUS GRANULAR EMBANKMENT	CU YD	124.0
21301072	EXPLORATION TRENCH 72" DEPTH	FOOT	200.0
* 25000210	SEEDING, CLASS 2A	ACRE	0.4
* 25000350	SEEDING, CLASS 7	ACRE	0.4
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	35.0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	35.0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	35.0
* 25100115	MULCH, METHOD 2	ACRE	0.4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	39.0
28000305	TEMPORARY DITCH CHECKS	FOOT	143.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,100.0
28000500	INLET AND PIPE PROTECTION	EACH	1.0
28100201	STONE RIPRAP, CLASS A1	TON	158.0
28200200	FILTER FABRIC	SQ YD	175.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	77.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	14.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	160.0
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	121.0
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	267.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
50200100	STRUCTURE EXCAVATION	CU YD	319.0
51500100	NAME PLATES	EACH	1.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0

*SPECIALTY ITEM

FILE NAME = c:\pr_work\FWIDOT\BUCKLESJJ\d0132042\05	USER NAME = bucklesjj 70594-sh.t-S00.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 697	SECTION 46BR	COUNTY Vermilion	TOTAL SHEETS 31	SHEET NO. 4		
						SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 70594				
						ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES

FAP 697 (L 9)
 VERMILION COUNTY
 STATION 1304+13.46
 TO
 STATION 1305+18.54
 RURAL 2-LANE
 80% FEDERAL
 20% STATE
Y007

LOCATION OF WORK:

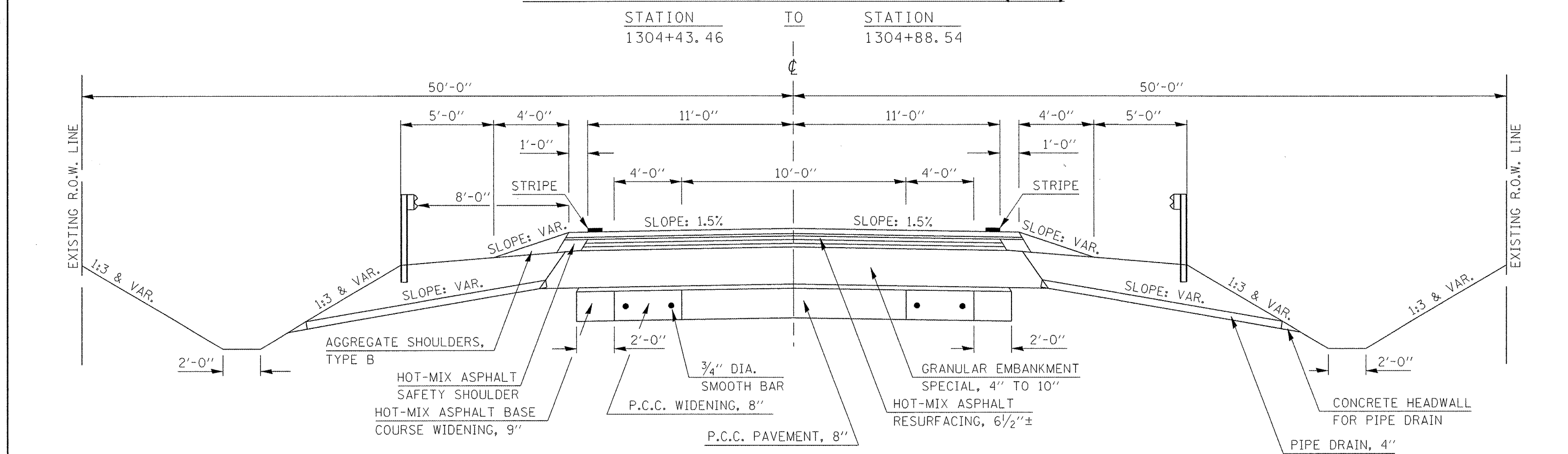
CONSTRUCTION TYPE CODE:

CODE NO	ITEM	UNIT	TOTAL QUANTITY
54021004	PRECAST CONCRETE BOX CULVERT 10' X 4' (M273)	FOOT	90.0
60238800	INLETS, TYPE A	EACH	1.0
60402210	GRATES, TYPE B	EACH	1.0
*63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	325.0
*63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100.0
*63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	50.0
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	4.0
63200310	GUARDRAIL REMOVAL	FOOT	303.0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1.0
67100100	MOBILIZATION	L SUM	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1.0
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	237.0
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2.0
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	8.0
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2.0
Z0010555	DITCH CLEANING	FOOT	341.0
Z0038800	PERMANENT BENCH MARKS, TYPE I	EACH	1.0

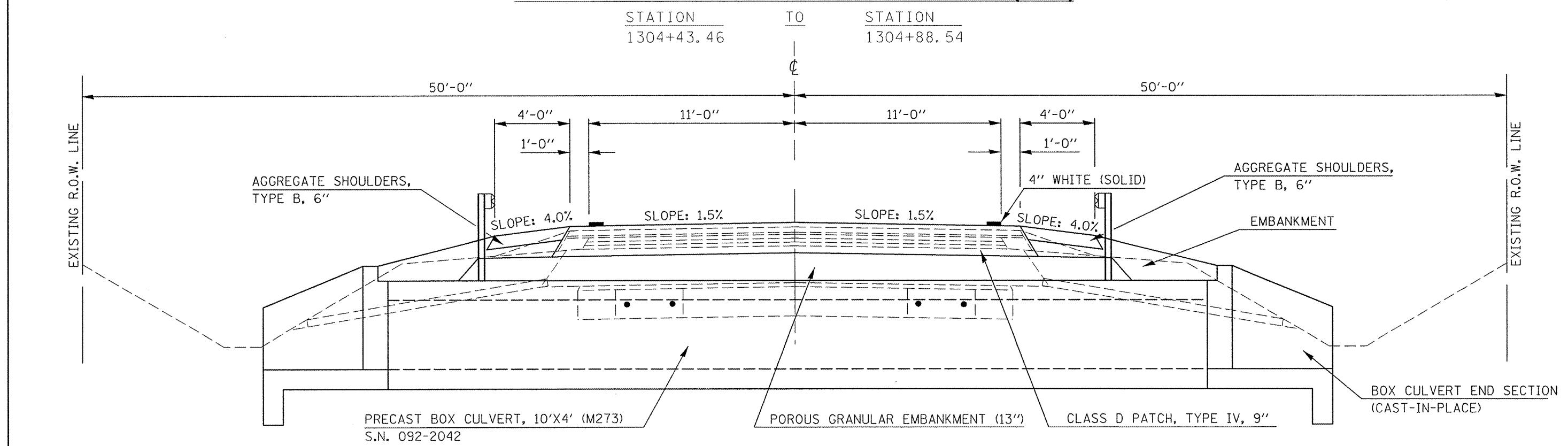
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PLOT SCALE = 48,0000' / IN.		CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 70594		
PLOT DATE = 10/19/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

EXISTING TYPICAL SECTION FAP 697 (IL 9)

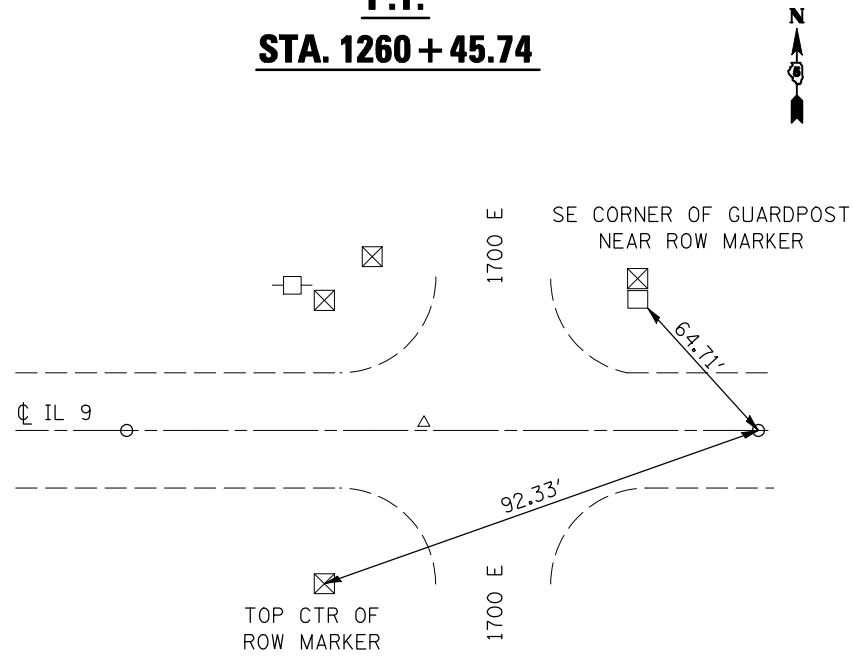


PROPOSED TYPICAL SECTION FAP 697 (IL 9)

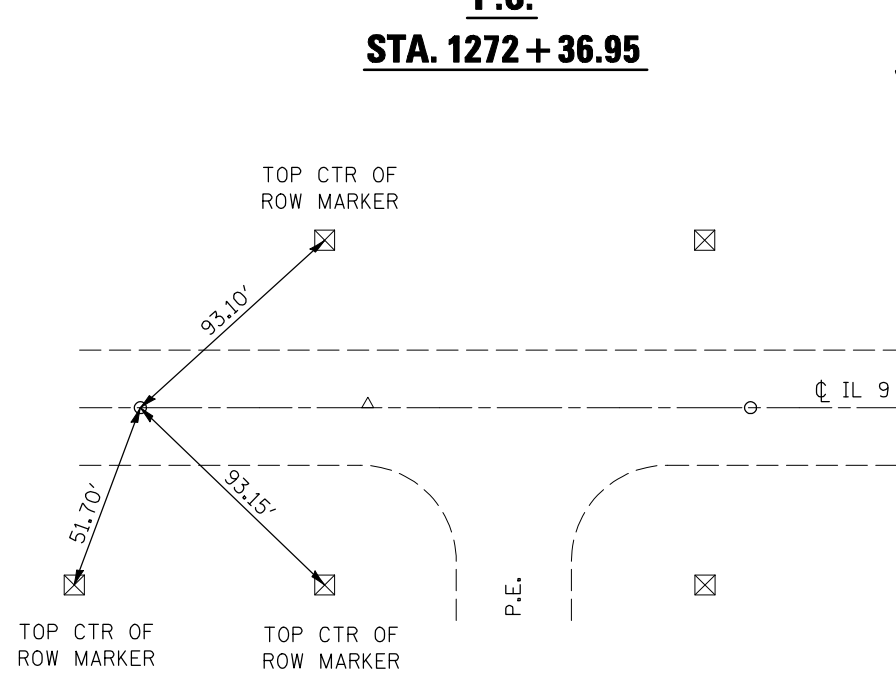


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PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 70594
PLOT DATE = 10/19/2009	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

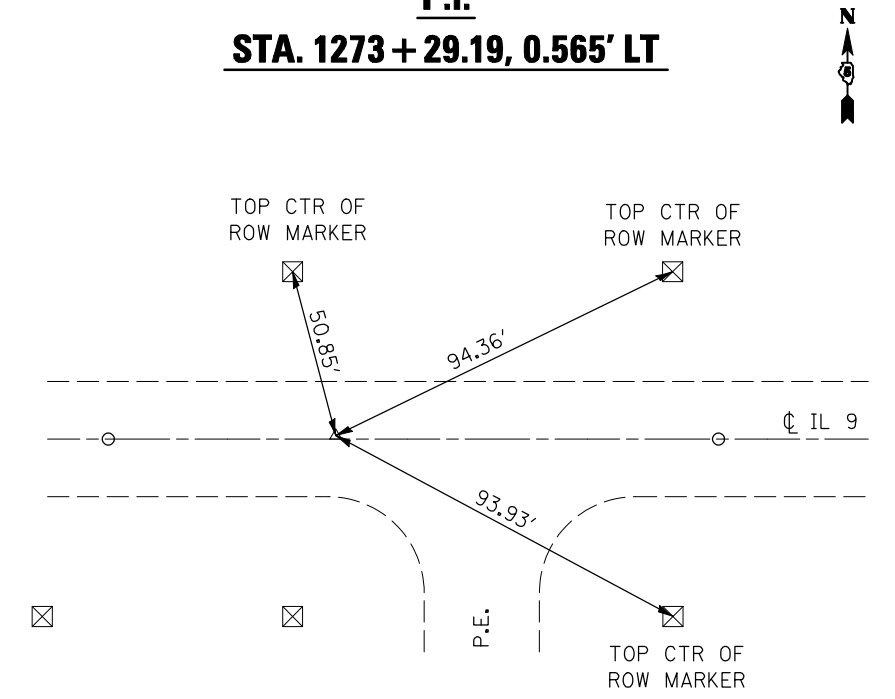
P.T.
STA. 1260 + 45.74



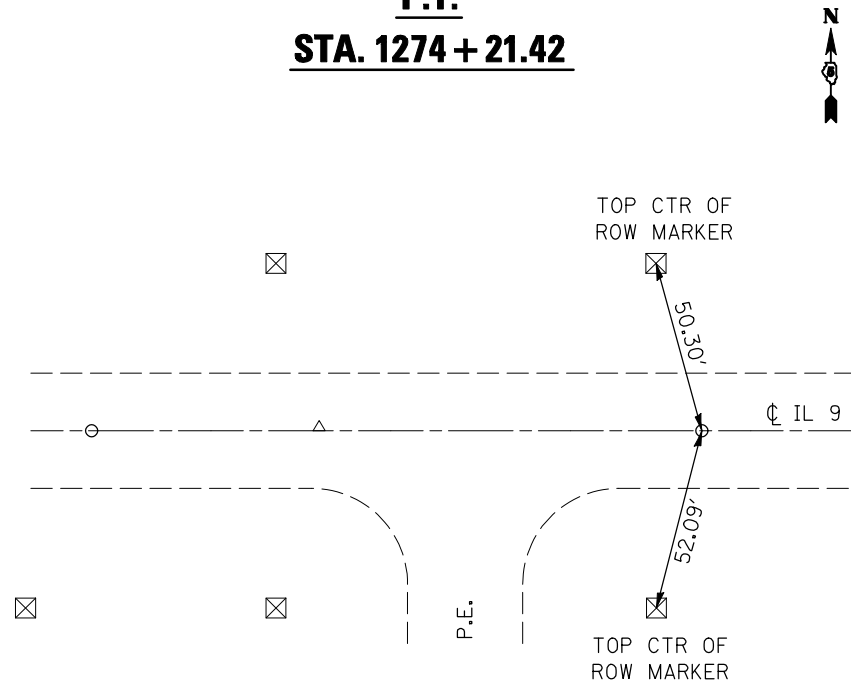
P.C.
STA. 1272 + 36.95



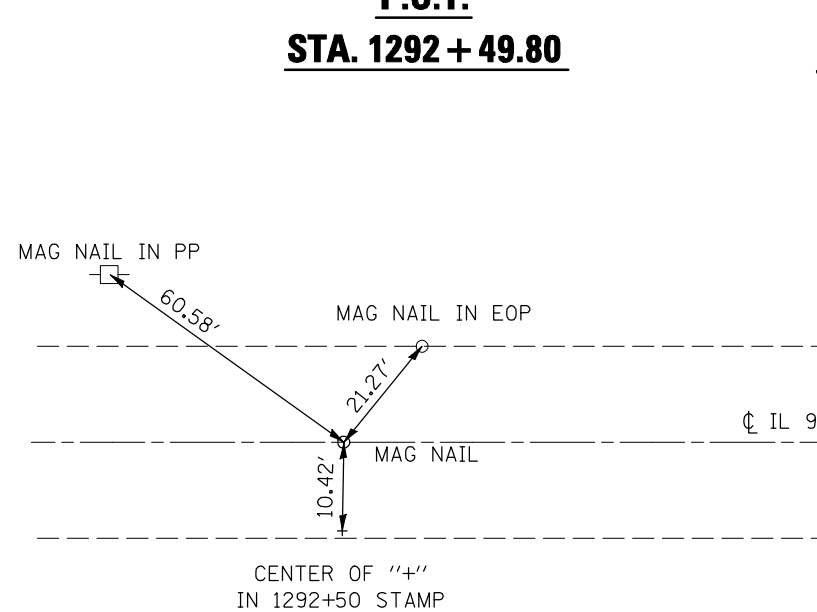
P.I.
STA. 1273 + 29.19, 0.565' LT



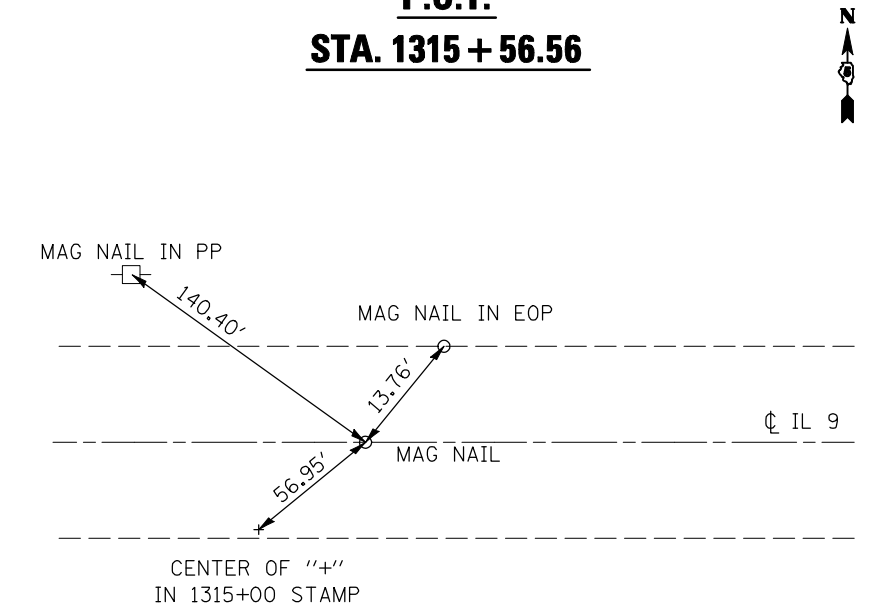
P.T.
STA. 1274 + 21.42



P.O.T.
STA. 1292 + 49.80



P.O.T.
STA. 1315 + 56.56



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 10/19/2009		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

EARTHWORK SCHEDULE

SEEDING SCHEDULE

STATION	(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	(20400800) FURNISHED EXCAVATION (CU YD)
1301+75	N/A	N/A
1302+25	N/A	N/A
1302+75	N/A	N/A
1303+25	8.1	5.3
1303+75	17.9	10.2
1304+25	14.1	6.9
1304+66	5.3	0.6
1304+75	60.2	2.3
1305+25	32.8	2.3
1305+75	17.6	0.4
1306+25	9.3	7.3
1306+75	9.7	7.9
1307+25	8.3	0.9
1307+75	2.5	
1308+25		
TOTALS =	186.0	45.0

STATION	STATION	AREA (ACRE)	(28000250) TEMPORARY EROSION CONTROL SEEDING (POUND)	(25000210) SEEDING CLASS 2A (ACRE)	(25000350) SEEDING CLASS 7 (ACRE)	(25000400) NITROGEN FERTILIZER NUTRIENT (POUNDS)	(25000500) PHOSPHOR. FERTILIZER NUTRIENT (POUNDS)	(25000600) POTASS. FERTILIZER NUTRIENT (POUNDS)	(25100115) MULCH METHOD 2 (ACRE)
1301+75.00 LT	1308+25.00 LT	0.25	24.6	0.25	0.25	22.1	22.1	22.1	0.25
1301+75.00 RT	1308+25.00 RT	0.14	14.1	0.14	0.14	12.7	12.7	12.7	0.14
TOTAL =		0.4	39.0	0.4	0.4	35.0	35.0	35.0	0.4

DITCH CLEANING (Z0010555)

STATION	STATION	LT (FEET)	RT (FEET)
1302+25.00	1302+75.00	50.0	50.0
1302+75.00	1303+25.00	50.0	50.0
1304+25.00	1304+66.00		41.0
1305+75.00	1306+25.00		50.0
1306+25.00	1306+75.00		50.0
SUBTOTALS =		100.0	241.0
TOTAL =		341.0	

INLETS, TYPE A (60238800)

STATION	OFFSET	EACH
1304+67.00	35.80' LT	1.0
TOTAL =		1.0

GRATES, TYPE B (60402210)

STATION	OFFSET	EACH
1304+67.00	35.80' LT	1.0
TOTAL =		1.0

PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 42", TEMPORARY (#5000909)

STATION	LENGTH(FT)
1304+66.00 RT	22.5
TOTAL = 23.0	

PERIMETER EROSION BARRIER (28000400)

STATION	STATION	LENGTH(FT)
1302+25.00 LT	1307+75.00 LT	550.0
1302+25.00 RT	1307+75.00 RT	550.0
TOTAL =		1,100.0

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

STATION	STATION	LENGTH(FT)	WIDTH(FT)	SQ YDS	TONS
1304+13.46	1304+43.46	30.0	24.0	80.0	6.7
1304+88.54	1305+18.54	30.0	24.0	80.0	6.7
TOTAL =				14.0	

EXPLORATION TRENCH, 72" DEPTH (21301072)

STATION	STATION	LENGTH(FT)
1304+16.00 LT	1305+16.00 LT	100.0
1304+16.00 RT	1305+16.00 RT	100.0
TOTAL =		200.0

INLET AND PIPE PROTECTION (28000500)

STATION	OFFSET	EACH
1304+67.00	35.80' LT	1.0
TOTAL =		1.0

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" (44000155)

STATION	STATION	LENGTH(FT)	WIDTH(FT)	SQ YDS
1304+13.46	1304+43.46	30.0	24.0	80.0
1304+88.54	1305+18.54	30.0	24.0	80.0
TOTAL =				160.0

TEMPORARY DITCH CHECKS (28000305)

STATION	FEET
LT 1302+50.00	17.5
RT 1302+50.00	12.5
LT 1304+25.00	15.0
RT 1304+25.00	15.0
LT 1305+00.00	12.5
RT 1305+00.00	10.0
RT 1305+25.00	10.0
LT 1305+75.00	12.5
RT 1305+75.00	12.5
RT 1306+80.00	12.5
RT 1307+70.00	12.5
TOTAL = 142.5	

BITUMINOUS MATERIALS (PRIME COAT) (40600100)

STATION	STATION	LENGTH(FT)	WIDTH(FT)	GALLONS
1304+13.46	1304+43.46	30.0	24.0	8.0
1304+43.46	1304+88.54	45.1	24.0	60.1
1304+88.54	1305+18.54	30.0	24.0	8.0
TOTAL =				77.0

AGGREGATE SHOULDERS, TYPE B, 6" (48101500)

STATION	STATION	LENGTH(FT)	WIDTH(FT)	SQ YDS
1303+66.00 LT	1305+66.00 LT	200.0	4.0	88.9
1303+66.00 RT	1305+66.00 RT	200.0	4.0	88.9
SUBTOTAL =				177.8
(EXTRA QUANTITY, IF NEEDED, TO BUILD UP EXISTING SHOULDER FOR STAGE I TRAFFIC)				
1303+66.00 RT	1305+66.00 RT	200.0	4.0	88.9
TOTAL =				267.0

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS (63000001)

STATION	STATION	LENGTH(FT)
1303+16.5 RT	1304+29.0 RT	112.5
1303+79.0 LT	1304+29.0 LT	50.0
1305+04.0 RT	1305+54.0 RT	50.0
1305+04.0 LT	1306+16.5 LT	112.5
TOTAL =		325.0

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) (63100167)

STATION	EACH	
1303+16.5 RT	1.0	
1303+79.0 LT	1.0	
1305+54.0 RT	1.0	
1306+16.5 LT	1.0	
TOTAL =		4.0

TERMINAL MARKER - DIRECT APPLIED (78201000)

STATION	EACH	
1302+66.5 RT	1.0	
1303+29.0 LT	1.0	
1306+04.0 RT	1.0	
1306+66.5 LT	1.0	
TOTAL =		4.0

STEEL PLATE BEAM GUARDRAIL, TYPE B (63000005)

STATION	STATION	LENGTH(FT)
1304+29.0 LT	1304+54.0 LT	25.0
1304+29.0 RT	1304+54.0 RT	25.0
1304+79.0 LT	1305+04.0 LT	25.0
1304+79.0 RT	1305+04.0 RT	25.0
TOTAL =		100.0

GUARDRAIL REMOVAL (63200310)

STATION	STATION	LENGTH(FT)
1303+90.0 RT	1305+41.5 RT	151.5
1303+91.5 LT	1305+43.0 LT	151.5
TOTAL =		303.0

PERMANENT BENCH MARK, TYPE 1 (Z0038800)

STATION	OFFSET	EACH
1304+53.00	23.50' RT	1.0
TOTAL =		1.0

STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (63000025)

STATION	STATION	LENGTH(FT)
1304+54.0 LT	1304+79.0 LT	25.0
1304+54.0 RT	1304+79.0 RT	25.0
TOTAL =		50.0

PAINT PAVEMENT MARKING - LINE 4" (78001110)

WHITE -

STATION	STATION	LOCATION	FEET
1304+13.46	1305+18.54	11' LT	105.1
1304+13.46	1305+18.54	11' RT	105.1
SUBTOTAL =			210.2

YELLOW -

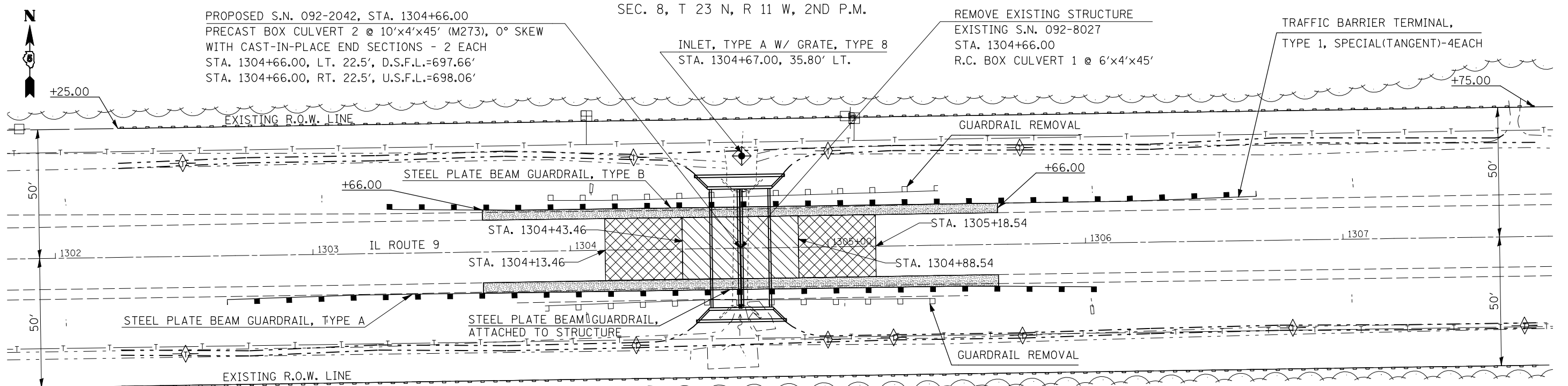
STATION	STATION	LOCATION	FEET
1304+13.46	1305+18.54	SKIP-DASH	26.3
GRAND TOTAL =			237.0

GUARDRAIL MARKER, TYPE A (78200410)

STATION	STATION	EACH
1302+66.5 RT	1306+04.0 RT	4.0
1303+29.0 LT	1306+66.5 LT	4.0
TOTAL =		8.0

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

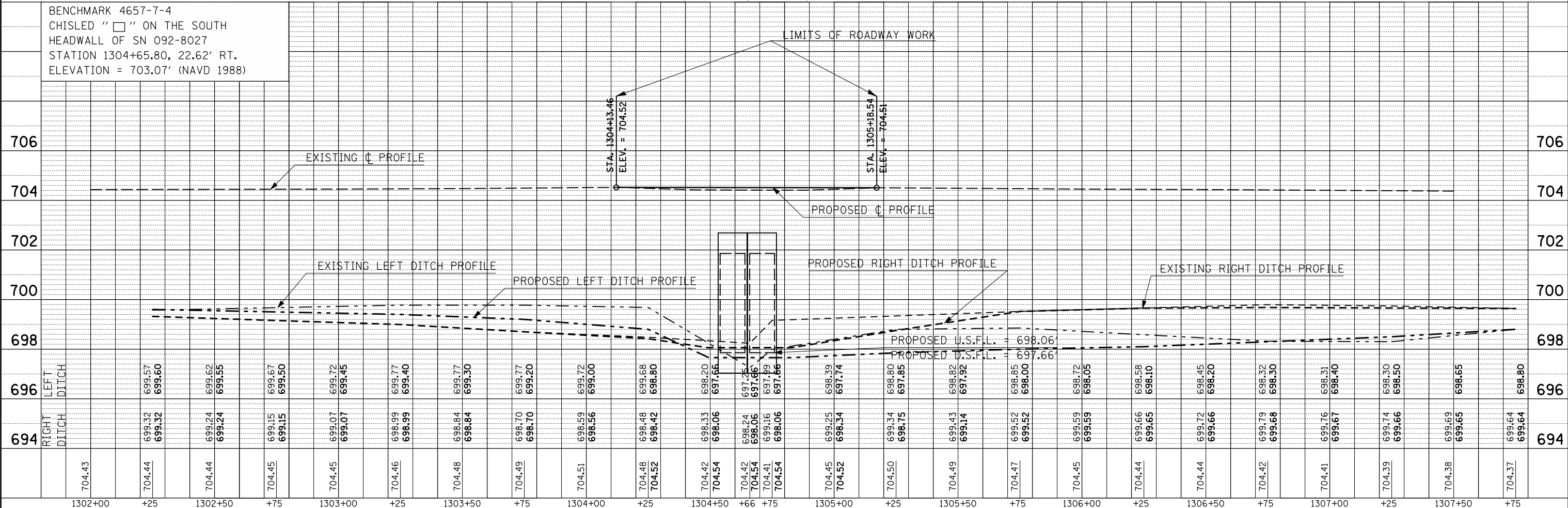
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	ATTEMPTED		
	STRUCTURE NOTATION CHD		
NOTE BOOK NO.			



- HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- CLASS D PATCH, TYPE IV, 9" = 121.0 SQ YDS
- AGGREGATE SHOULDERS, TYPE B, 6"
- PERIMETER EROSION CONTROL BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECKS

PLAN NOTE: THE EXISTING FIELD TILE AT LT. STA. 1304+67.00 SHALL BE EXTENDED TO MEET THE TYPE A INLET, AS SHOWN IN THE PLANS. THE MATERIAL USED SHALL CONFORM TO THE REQUIREMENTS AS STATED IN ARTICLE 542.03 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE INSTALLATION OF THE TYPE A INLET, IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

SEC. 17, T 23 N, R 11 W, 2ND P.M.



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

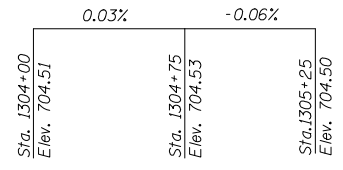
PLAN & PROFILE (S.N. 092-2042)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	11
CONTRACT NO. 70594			ILLINOIS FED. AID PROJECT	

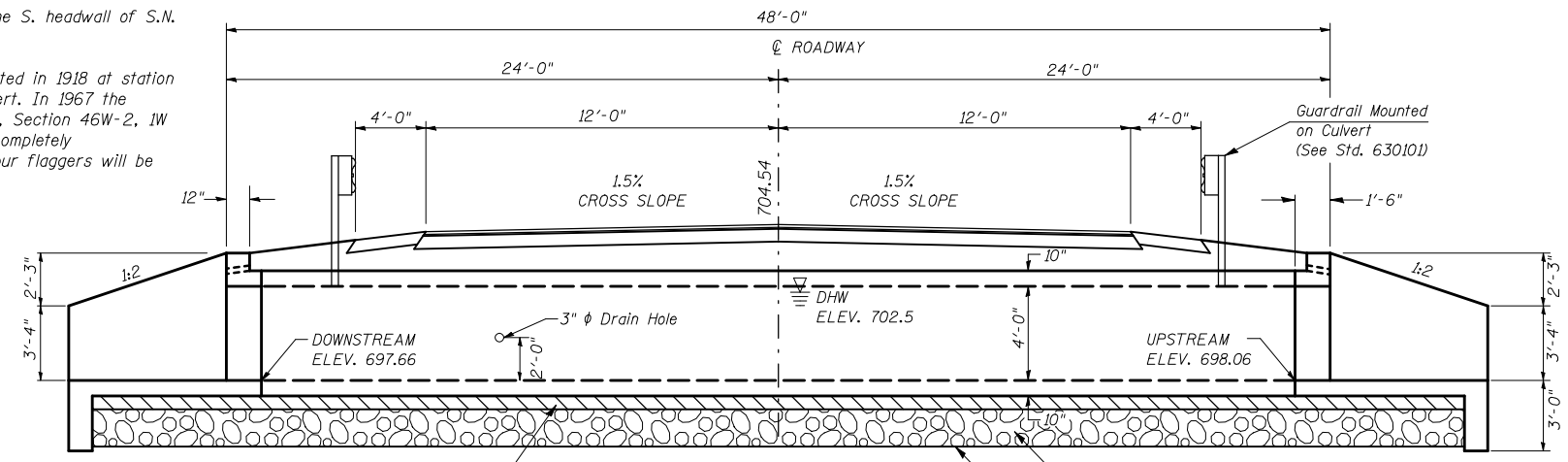
BENCHMARK ELEV. = 703.07' Chiseled square on the S. headwall of S.N. 092-8027.

EXISTING STRUCTURE: S.N. 092-8027 was constructed in 1918 at station 1304+66.00 as a 6'x4' reinforced concrete box culvert. In 1967 the structure was extended on each end as SBI Route 9, Section 46W-2, 1W in Vermillion County. The existing structure is to be completely removed and replaced. Stage Construction with 24-hour flaggers will be utilized.



Profile Grade

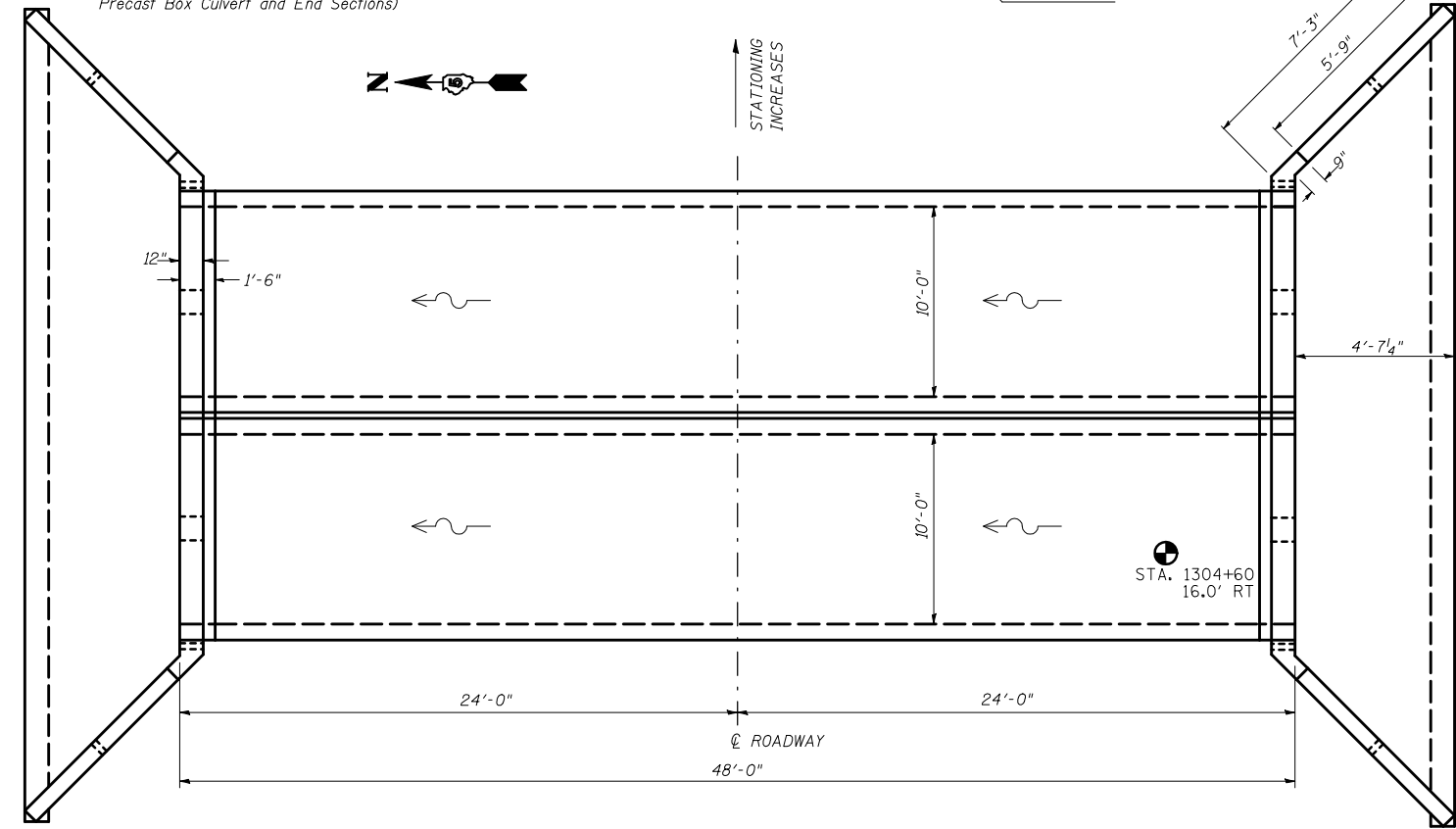
Along ϕ Roadway



ELEVATION

(DIMENSIONS AT RIGHT ANGLES TO ϕ OF ROADWAY)

POROUS GRANULAR MATERIAL - CA 7, 6" (Included in Pay Items for Precast Box Culvert and End Sections)
STONE RIPRAP, CLASS A1, 1'-6"
Filter Fabric



PLAN

WATERWAY INFORMATION

Proposed Low Grade Elev. = 704.38 @ Sta. 1307+50

Existing Low Grade Elev. = 704.38 @ Sta. 1307+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
	10	257	24	57				Overtopped	701.9
Design	50	396	24	80				Overtopped	702.5
Base	100	454	24	80				Overtopped	Overtopped
Max. Calc.	500	590	24	80				Overtopped	Overtopped

10 YEAR VELOCITY THROUGH EXISTING BRIDGE = 15'/s 10 YEAR VELOCITY THROUGH PROPOSED BRIDGE = 3'/s

* Information provided using the USGS method

General Notes

- Build tops of headwalls parallel to the grade lines.
- 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.
- 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. One drain hole on exterior culvert walls shall be provided for each precast box culvert section.

The box culvert end section shall be built in the field and a precast option is not allowed except the cut-off wall may be precast. 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.

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, E-E, and F-F 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 design reinforcement areas shall conform to those found in Table 1 of the AASHTO M273 specification for a 10'x5' box section.

The joints between precast box sections shall be sealed, 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.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Structures	Each	1
Precast Concrete Box Culverts 10'x4'	Foot	90
Box Culvert End Sections	Each	2
Name Plates	Each	1
Stone Riprap, Class A1	Ton	158
Filter Fabric	Sq Yd	175

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Cut-Off Wall	S. Cut-Off Wall
	694.66	695.06

**GENERAL PLAN AND ELEVATION
DOUBLE 10'x4' PRECAST BOX CULVERT
F.A.P. ROUTE 697 - SECTION 46BR
VERMILION COUNTY
STATION 1304+66.00, S.N. 092-2042**

STATION 1304+66.00
BUILT 2010 BY
STATE OF ILLINOIS
F.A.P. RT. 697 SEC. 46BR
LOADING HS 20
STRUCTURE NO. 092-2042

NAME PLATE

See Std. 515001

INDEX OF SHEETS

- General Plan and Elevation
- Box Culvert End Section Details
- Staging Details
- Porous Granular Detail
- Existing Structure Information
- Soil Boring Log

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

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

DESIGN STRESSES

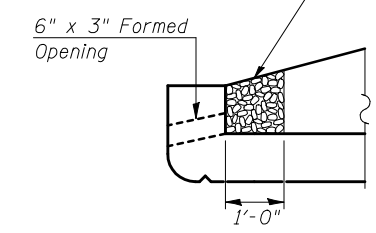
FIELD UNITS

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

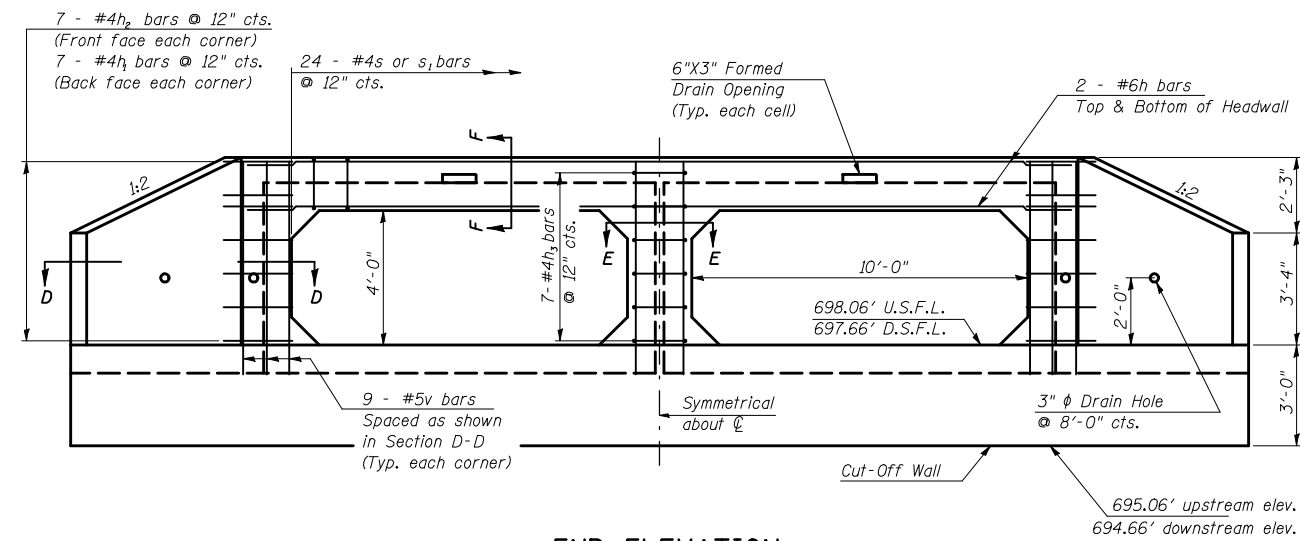
PRECAST UNITS

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

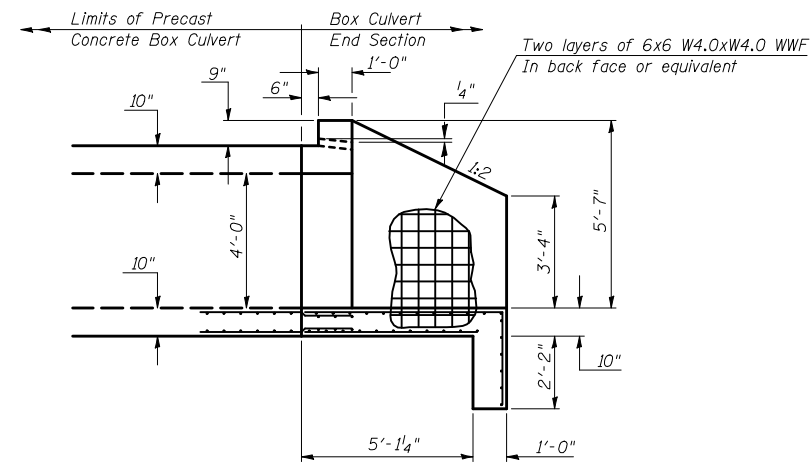
Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Box Culvert End Sections.



DRAIN DETAIL

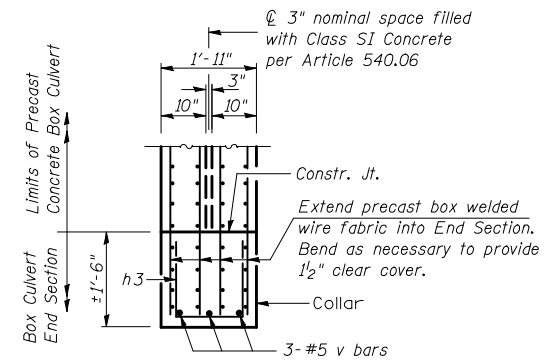


END ELEVATION



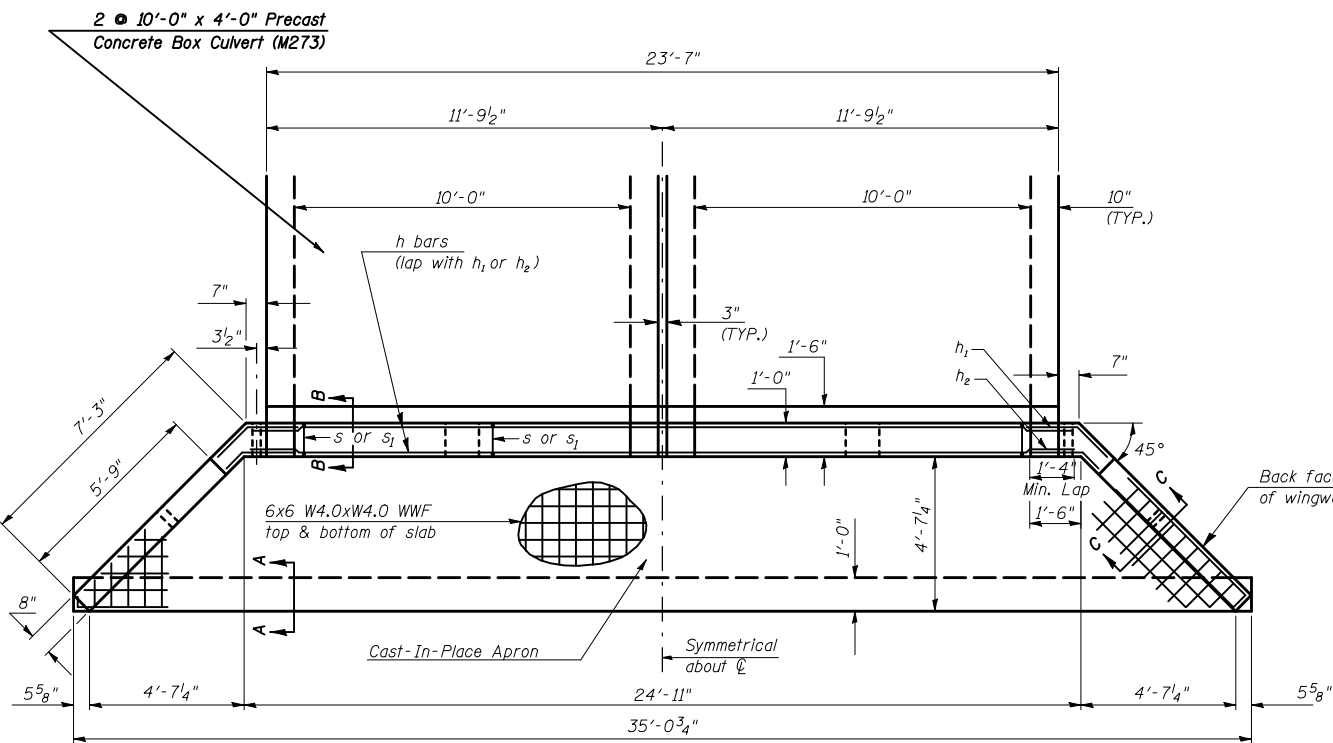
HALF SIDE ELEVATION

(DIMENSIONS AT RIGHT ANGLES TO ϕ OF ROADWAY)

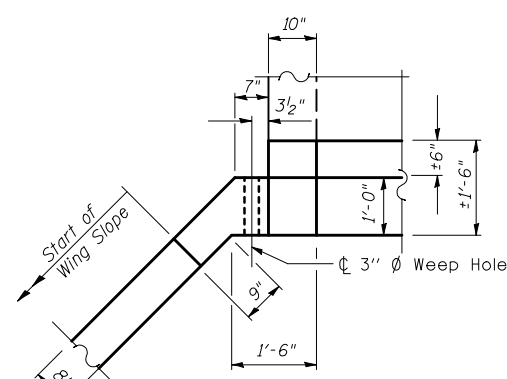


SECTION E-E

Tilt or adjust h_3 bar as necessary to fit

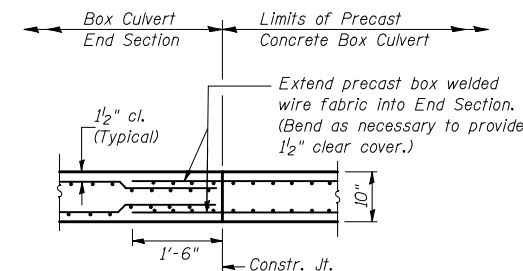


PLAN



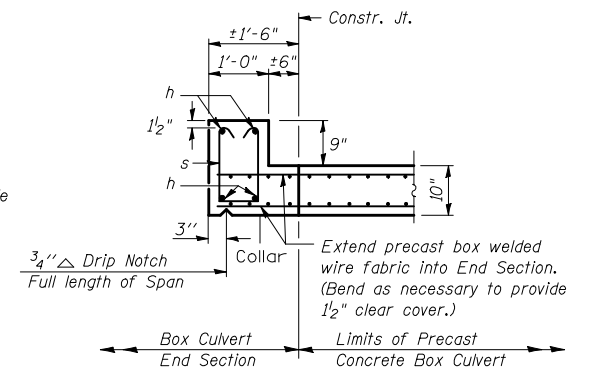
CORNER DETAIL

(Showing dimensions and weep hole)



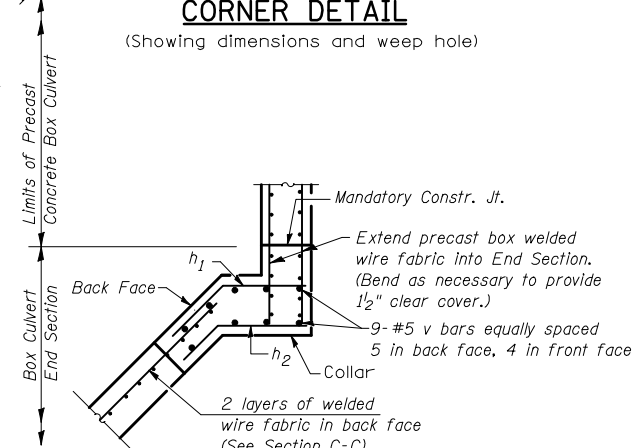
SECTION B-B

BOTTOM SLAB



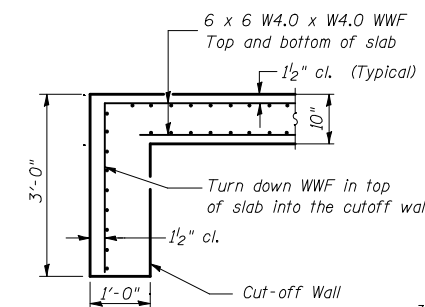
SECTION F-F

TOP SLAB / HEADWALL DOWNSTREAM END



SECTION D-D

(Showing reinforcement)

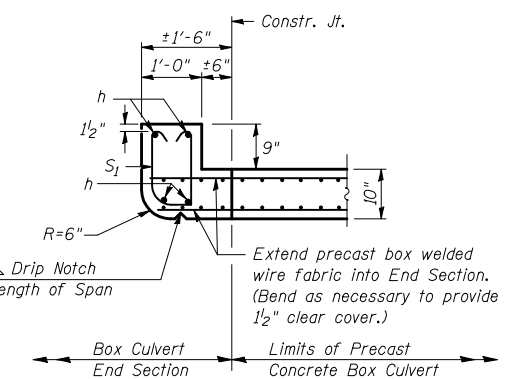


SECTION A-A

BILL OF MATERIAL

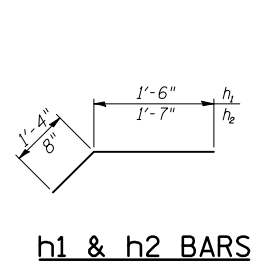
For Information Only
(One End Section)

Bar	No.	Size	Length	Shape
h	4	#6	24'-10"	
h ₁	14	#4	2'-10"	
h ₂	14	#4	2'-3"	
h ₃	7	#4	4'-2"	
s or s ₁	24	#4	4'-2"	
v	21	#5	6'-2"	
Item		Unit	Total	
Class SI Concrete		Cu. Yd.	12.6	
Reinforcement Bars		Pound	418.0	
Welded Wire Fabric		Sq. Ft.	647.0	

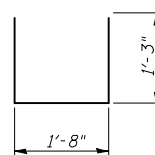


SECTION F-F

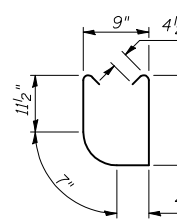
TOP SLAB / HEADWALL UPSTREAM END



h₁ & h₂ BARS

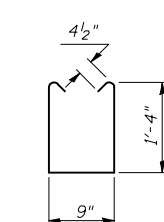


h₃ BARS



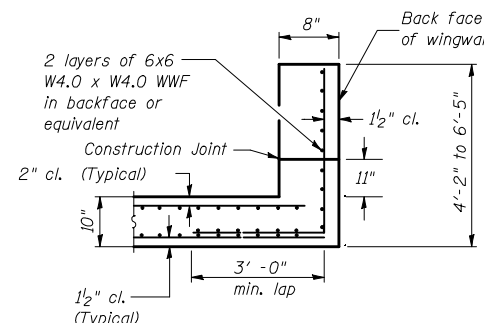
s₁ BARS

UPSTREAM END



s BARS

DOWNSTREAM END



SECTION C-C

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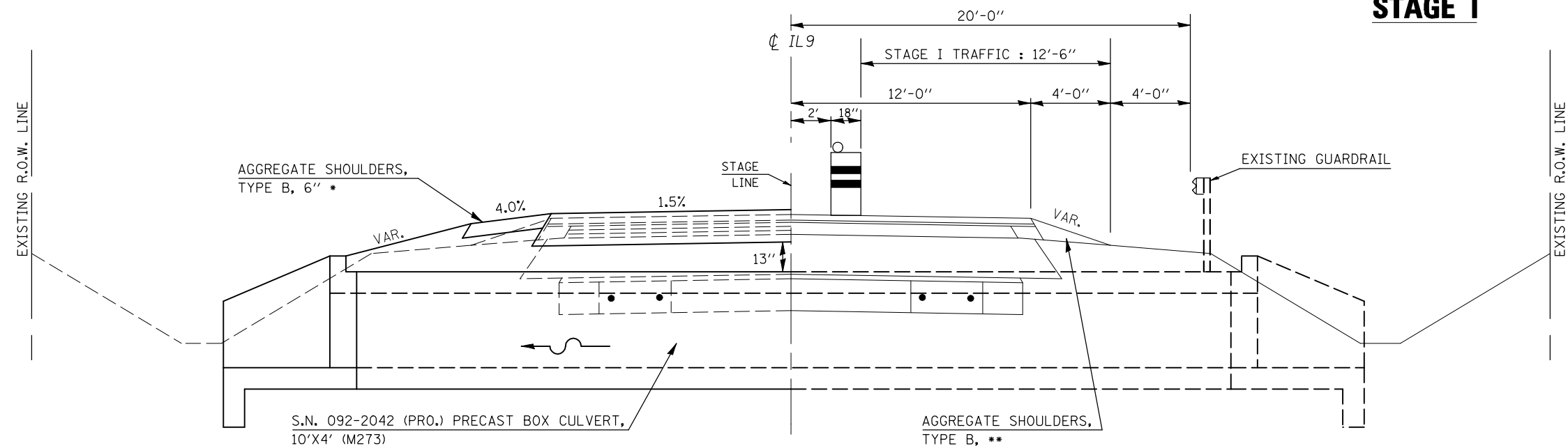
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**END SECTION DETAIL, S.N. 092-2042, STA. 1304 + 66
DOUBLE 10'x4' PRECAST BOX CULVERT**

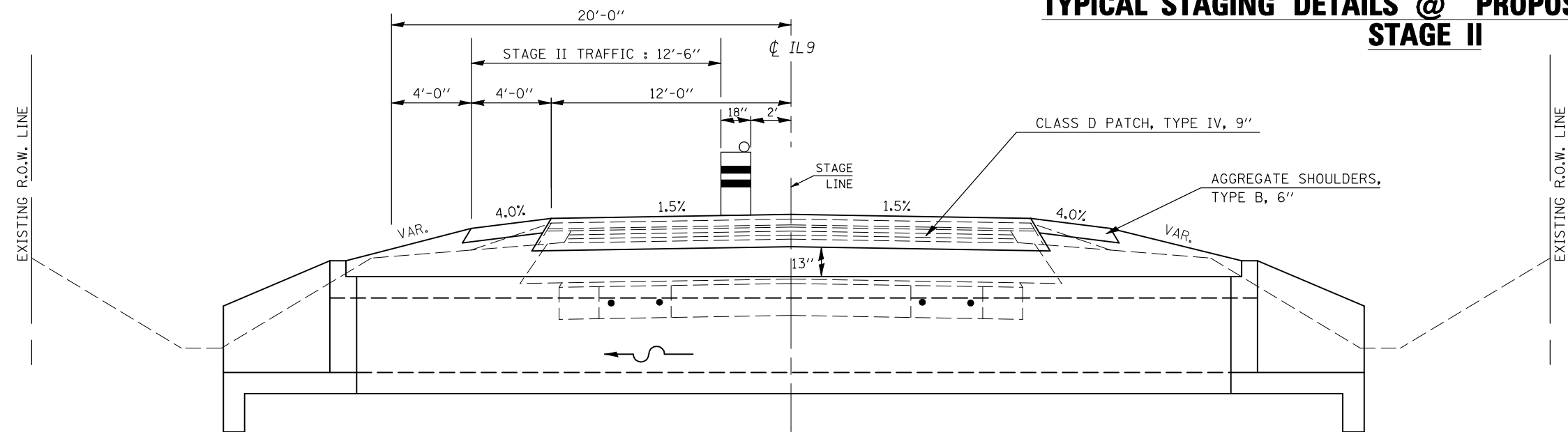
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

TYPICAL STAGING DETAILS @ PROPOSED S.N. 092-2042 STAGE I



TYPICAL STAGING DETAILS @ PROPOSED S.N. 092-2042 STAGE II



NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 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. PIPE CULVERT, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 42" (TEMPORARY), of the length as shown in the plans, shall be placed inside the upstream half of the existing box culvert prior to the removal of the downstream end during Stage I operations.
5. 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.
6. * Replace previously constructed AGGREGATE SHOULDERS, TYPE B, 6" as needed when construction is completed.
7. ** 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. 1304+66.00	701206	1 DAY - 24 HR. NON-STOP (1) - 12 HR. DAY SHIFT (1) - 12 HR. NIGHT SHIFT

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

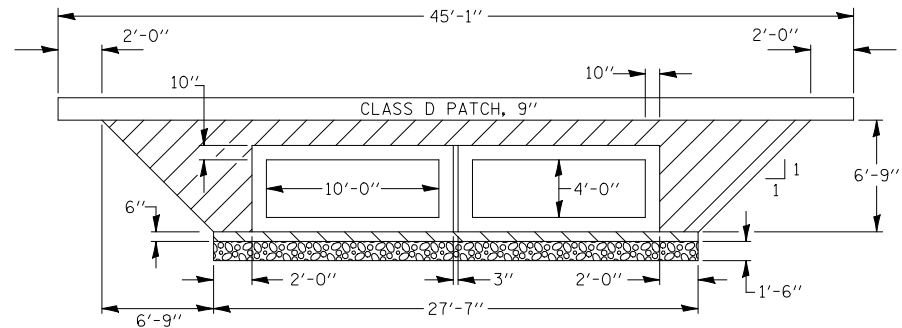
TYPICAL STAGING DETAILS

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermilion	31	14
CONTRACT NO. 70594			ILLINOIS FED. AID PROJECT	

POROUS GRANULAR EMBANKMENT DETAIL

S.N. 092-2042
STA. 1304+66.00

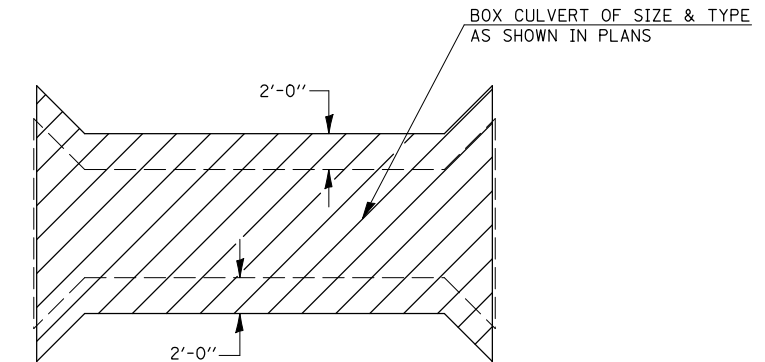


- PAY LIMITS OF POROUS GRANULAR EMBANKMENT - CA 6 = 123.5 CU. YD.
- POROUS GRANULAR MATERIAL - CA 7 (INCLUDED IN PAY ITEM FOR BOX CULVERT)
- STONE RIPRAP, CLASS A1

* POROUS GRANULAR EMBANKMENT SHALL EXTEND 5'-0" OUTSIDE OF THE EDGE OF SAFETY SHOULDER.

BOX CULVERT UNDERCUTTING DETAIL

S.N. 092-2042 (CULVERT #1)

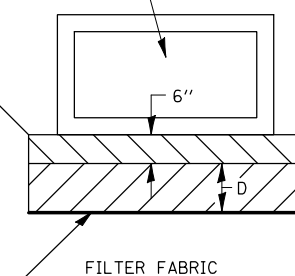


BOX CULVERT OF SIZE & TYPE AS SHOWN IN PLANS

STATION	D	STONE RIPRAP, CLASS A1 (TONS)	FILTER FABRIC (SQ. YD.)
1304+66.00	1'-6"	158.0	175.0

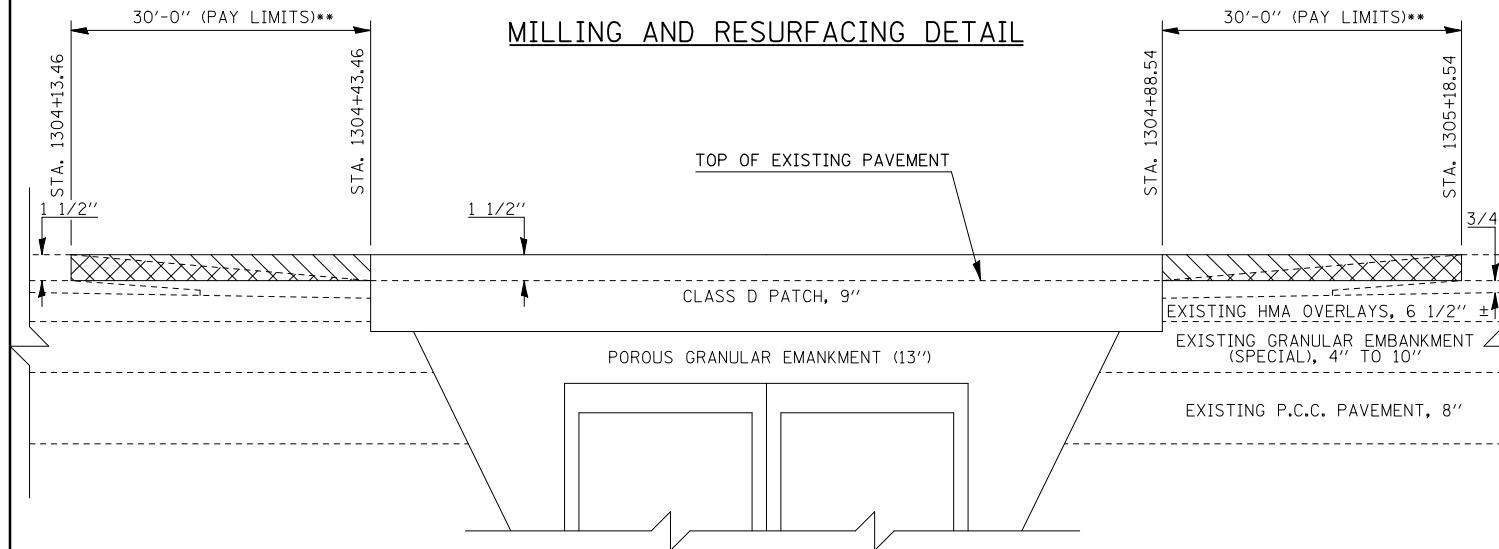
* THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1, WHICH SHALL INCLUDE THE EXCAVATION, EQUIPMENT, LABOR, AND MATERIALS REQUIRED.

- STONE RIPRAP, CLASS A1
- POROUS GRANULAR MATERIAL - CA 7



FILTER FABRIC

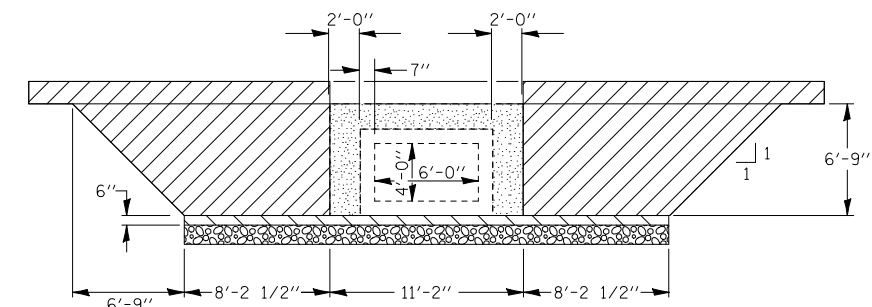
MILLING AND RESURFACING DETAIL



- HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (168 LBS/CU YD)

* PLAN NOTE: THE TOP 1 1/2" OF THE CLASS D PATCH SHALL CONSIST OF HMA SURFACE MIX IN ACCORDANCE WITH THE MIXTURE REQUIREMENTS OF G.N.-406H.
** PLAN NOTE: THE PAVEMENT LIMITS OF HMA SURFACE REMOVAL AS INDICATED IN THE DETAIL SHALL BE MILLED AT A VARIABLE DEPTH OF 0" TO 1 1/2", BUT SHALL BE PAID AS HMA SURFACE REMOVAL, 1 1/2".

STRUCTURE EXCAVATION DETAIL



- AREA INCLUDED IN REMOVAL OF EXISTING BOX
- PAY LIMITS OF STRUCTURE EXCAVATION = 319.0 CU.YD.
- STONE RIPRAP, CLASS A1

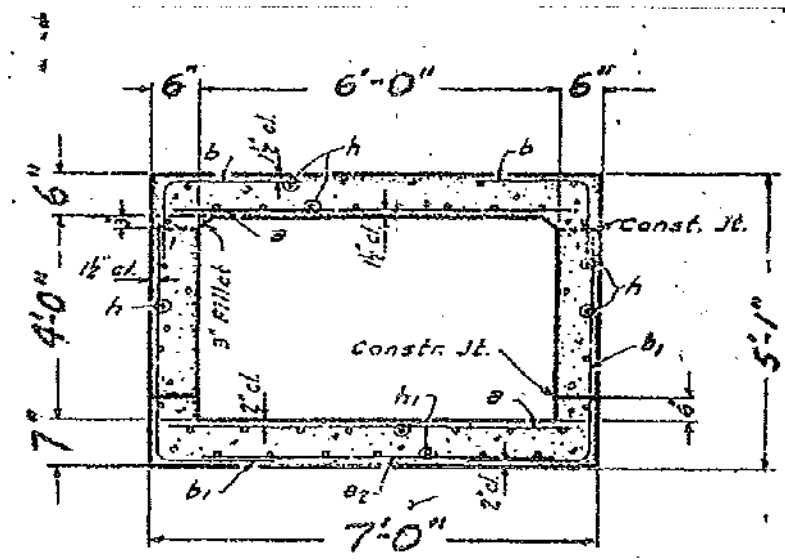
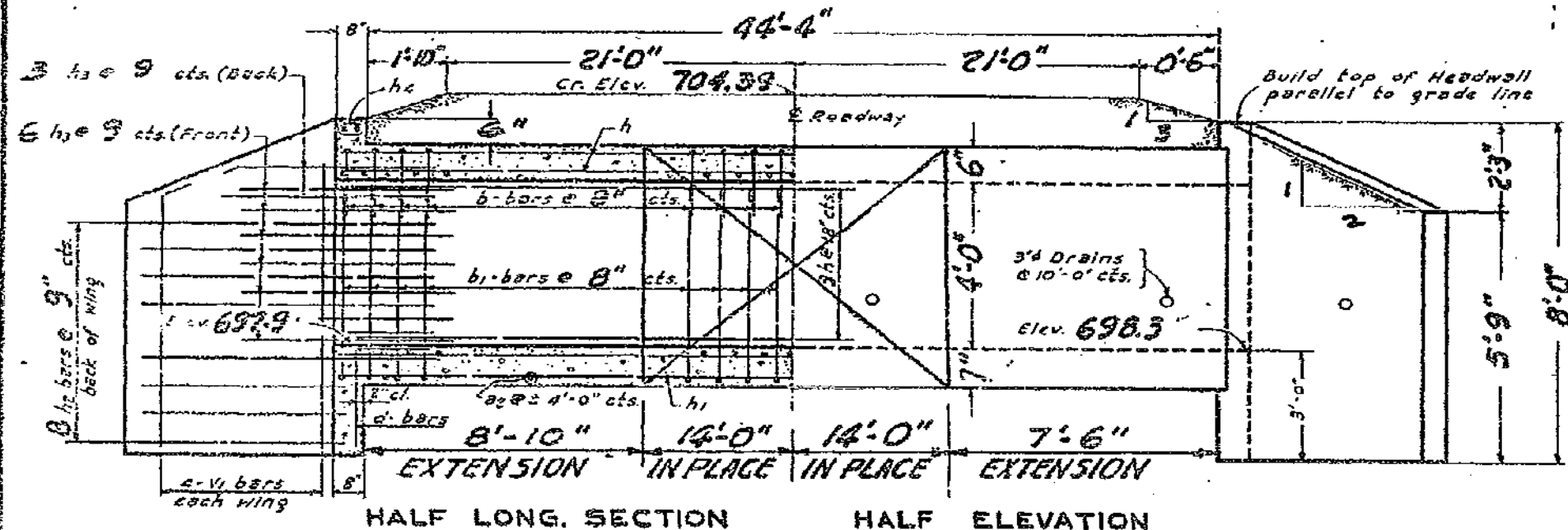
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70594			ILLINOIS FED. AID PROJECT	

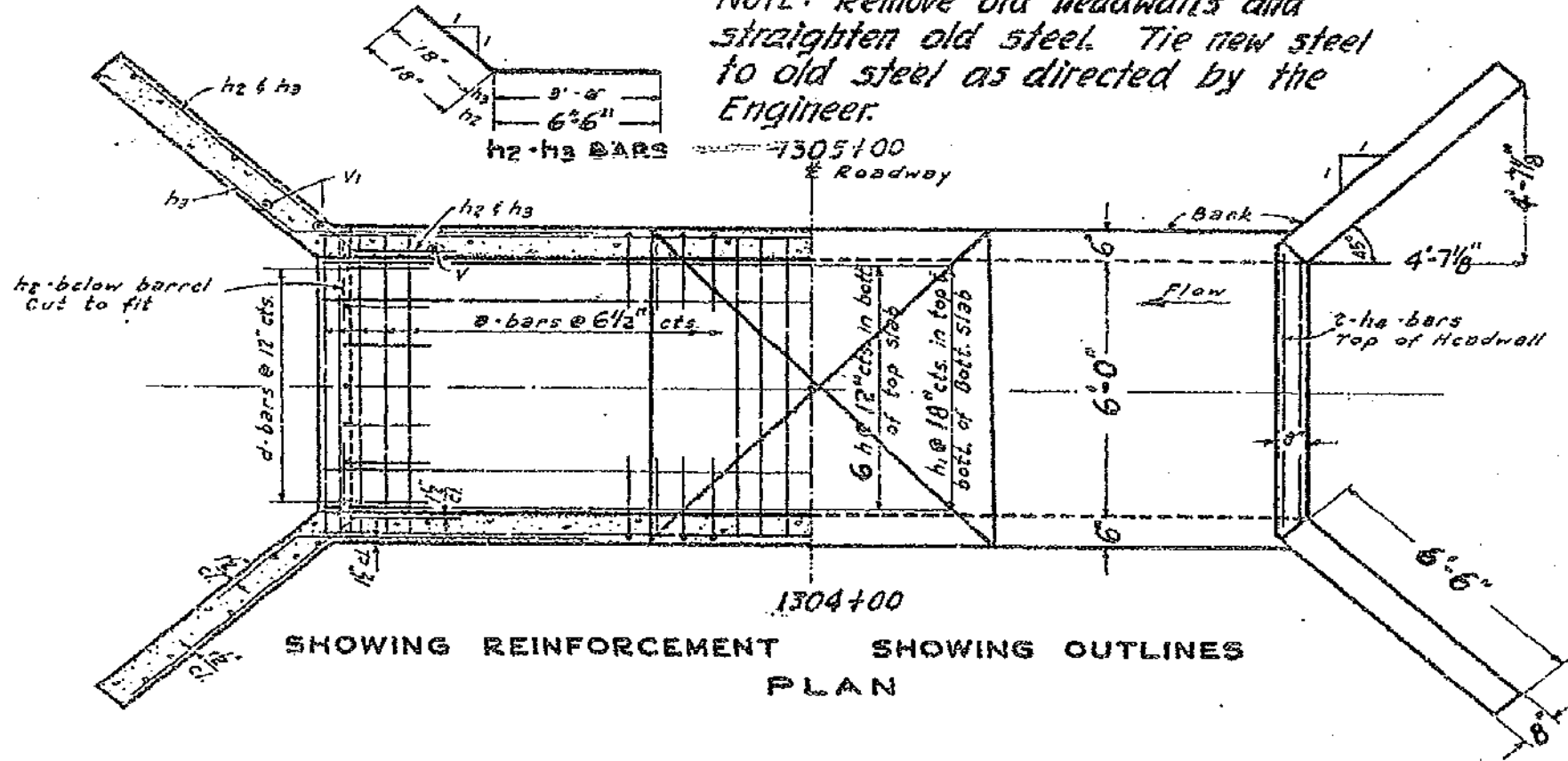
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



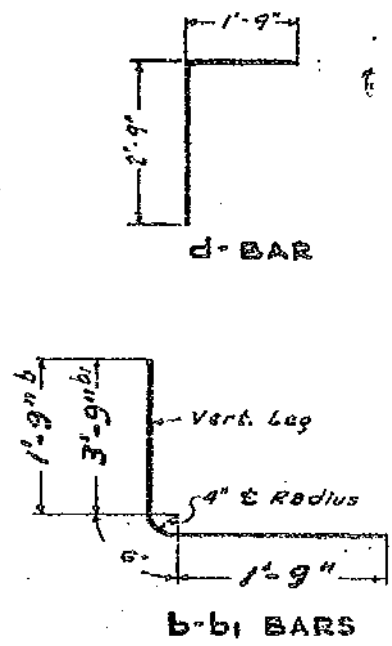
HALF LONG. SECTION HALF ELEVATION

SECTION THRU BARREL

NOTE: Remove old headwalls and straighten old steel. Tie new steel to old steel as directed by the Engineer.



SHOWING REINFORCEMENT SHOWING OUTLINES
PLAN



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
s	68	#5	6'-6"
a2	6	#4	3'-6"
b	56	#4	4'-0"
b1	56	#4	6'-0"
h1L	9	#4	9'-3"
v		#4	
VI	16	#4	6'-9"
d	14	#4	4'-6"
h1R	16	#4	9'-3"
h2R	16	#4	8'-0"
h1R	9	#4	8'-0"
h2	32	#4	8'-0"
h3	36	#4	5'-0"
h4	4	#6	6'-6"
Class X Concrete			Cu. Yds. 12.9
Reinforcement S. S			Lbs. 1580

GENERAL NOTES

Class X concrete shall be used through-out.
Culvert walls and slab may be poured monolithically.
Exposed edges shall be beveled 3".
The wing walls shall be poured monolithically with barrel for a distance of six feet along the barrel.

NOTE: All bars shall be round ASTM A305-49. The size number is the number of 1/8 inches in nominal diameter.

SPECIAL CURVE EXTENSION
S.B.I. RT. 9, SEC. 46 N-2, 1W
VERMILION COUNTY
LT. & RT. STA. 1304+66

f_s = 20,000 #/sq.
f_c = 1200 #/sq.
n = 10
H 20 LOADING

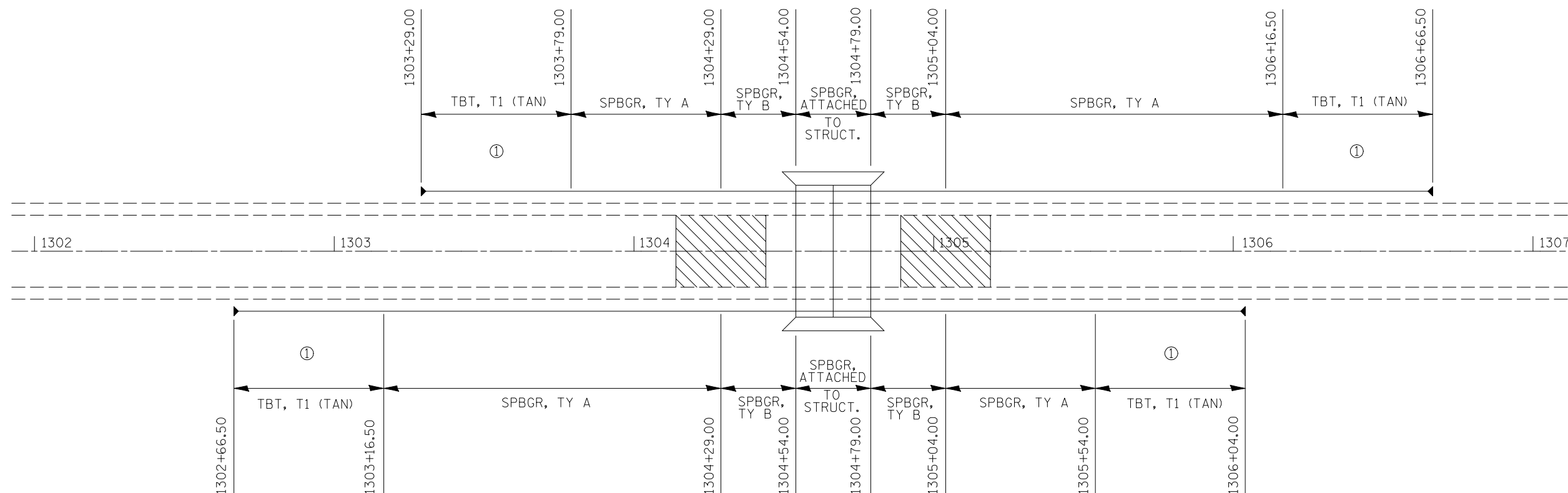
STANDARD	COMPILED	
	CHECKED	
	DRAWN	J.S. MARICCHI
	CHECKED	
SPECIAL	ASSEMBLED	R.D.C.
	CHECKED	P.L.S.

EXAMINED Sept. 16 1966
Carl E. Rummel Jr.
PASSED
APPROVED

Reinf. Revised - 11-60 - J.S.M.

STANDARD 2050

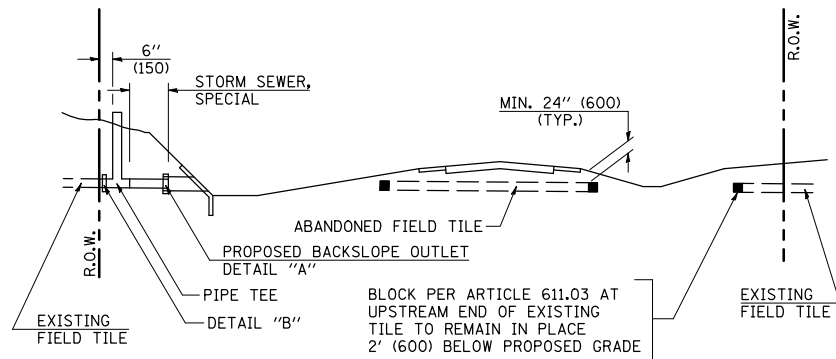
GUARDRAIL DETAILS



PLAN NOTES:

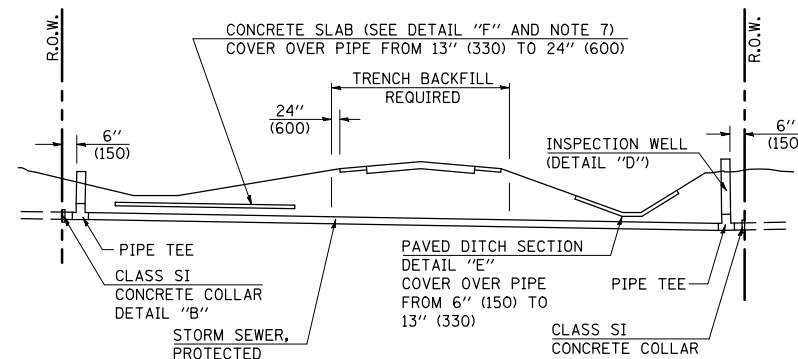
- ① SHOULDER WIDENING FOR TYPE 1 (SPECIAL) TERMINALS SHALL BE CONSTRUCTED PRIOR TO PLACEMENT OF THE NEW GUARDRAIL AND TERMINALS.
- ② THE VARIOUS GUARDRAIL PAY ITEMS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATIONS AND LENGTHS MAY OCCUR.

FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\bucklesjj\d0132042\0570594-sht-details.dgn		DRAWN -	REVISED -					697	46BR	Vermilion	31	18
		CHECKED -	REVISED -								CONTRACT NO. 70594	
		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.



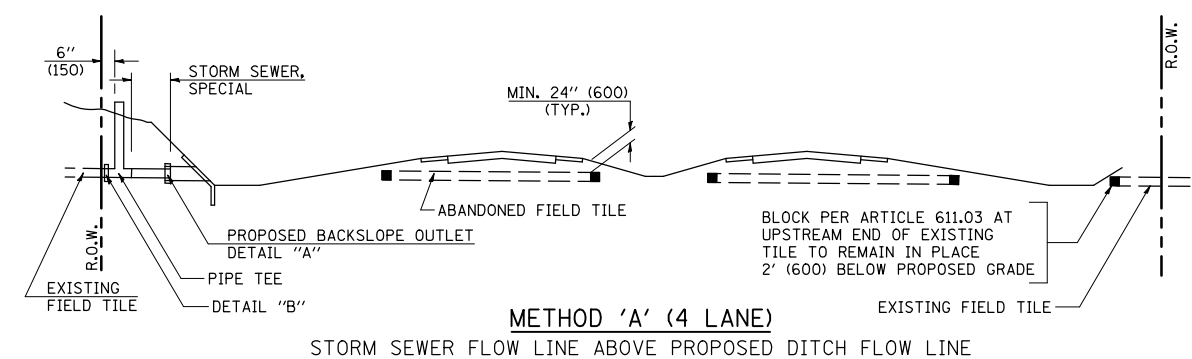
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



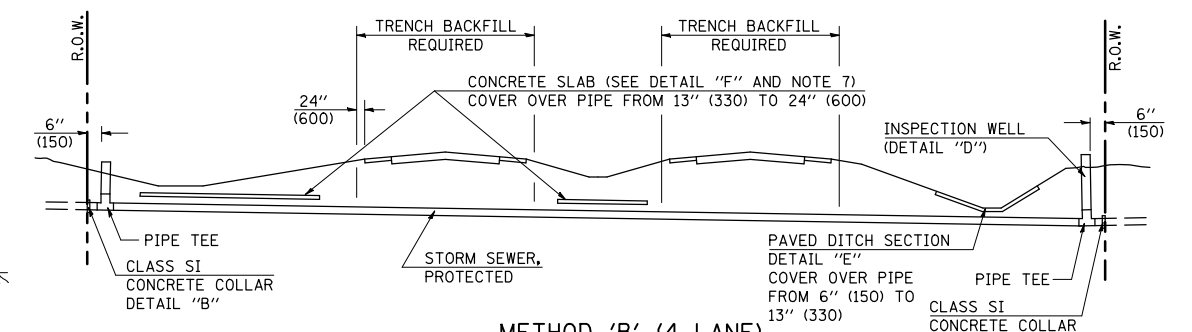
METHOD 'B' (2 LANE)

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



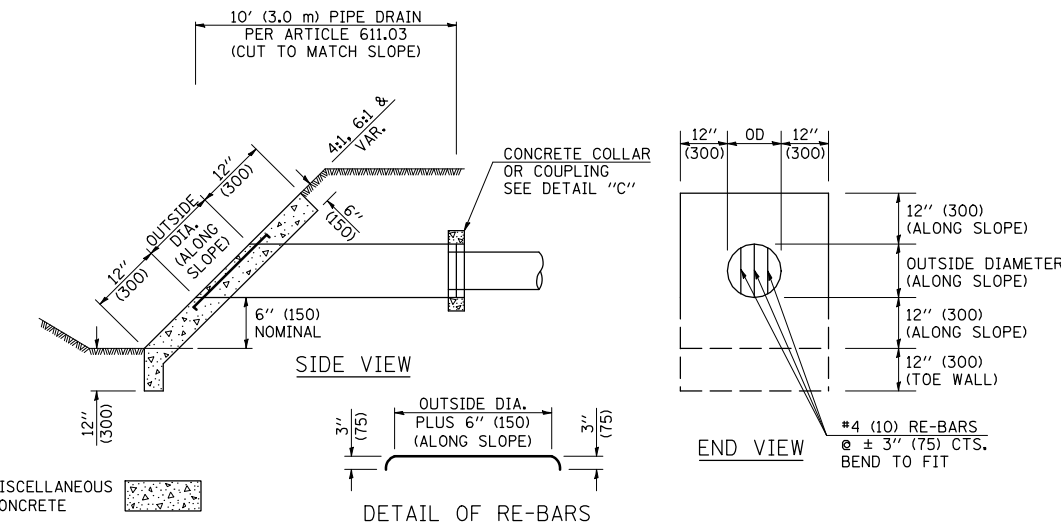
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

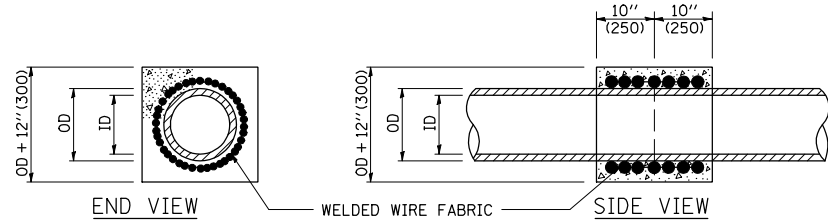


METHOD 'B' (4 LANE)

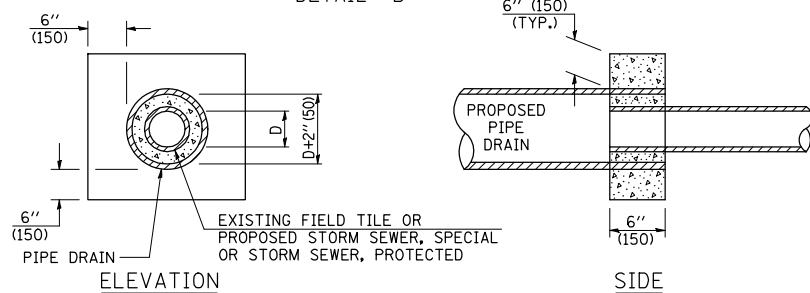
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



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



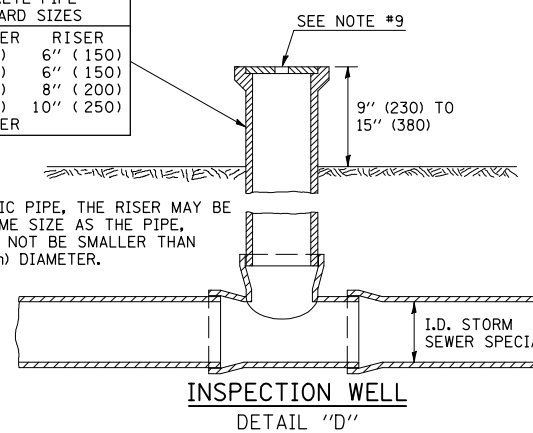
**CONCRETE COLLAR
DETAIL 'B'**



**CLASS SI COLLAR
DETAIL 'C'**

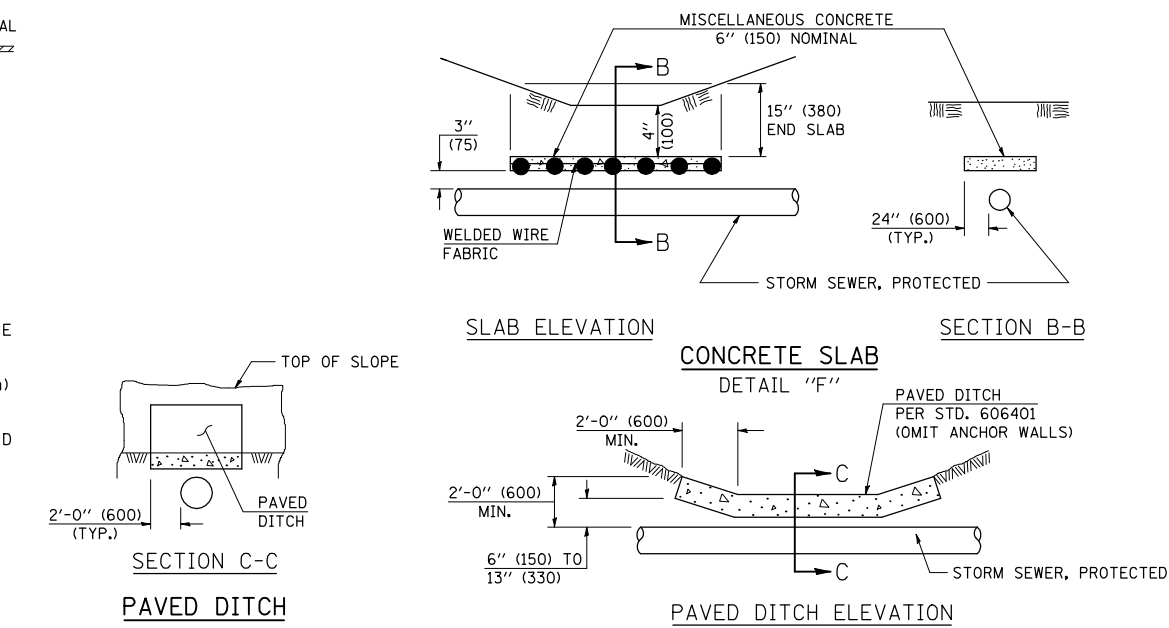
CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	8" (200)
OR GREATER	10" (250)

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

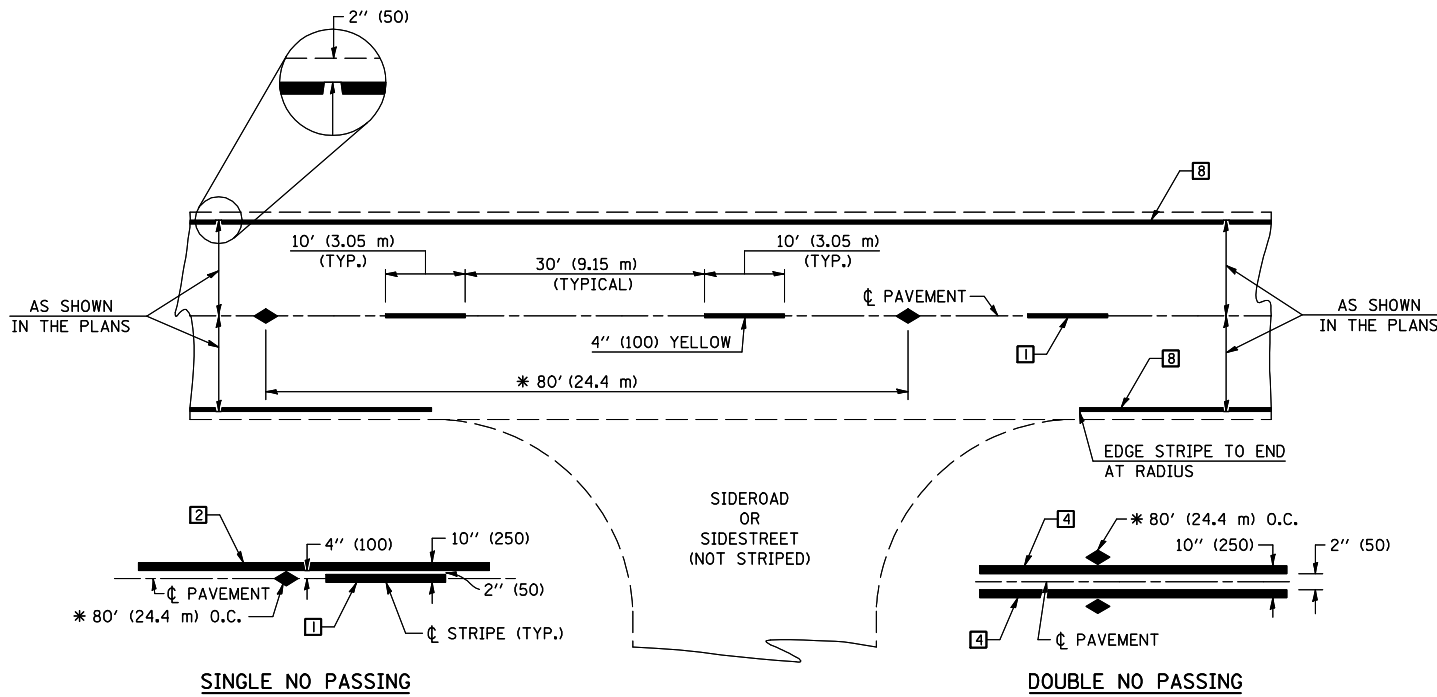
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		CHECKED -	REVISED -
		DATE -	REVISED -

**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.
697	46BR	Vermillion	31	19
CONTRACT NO. 70594				
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

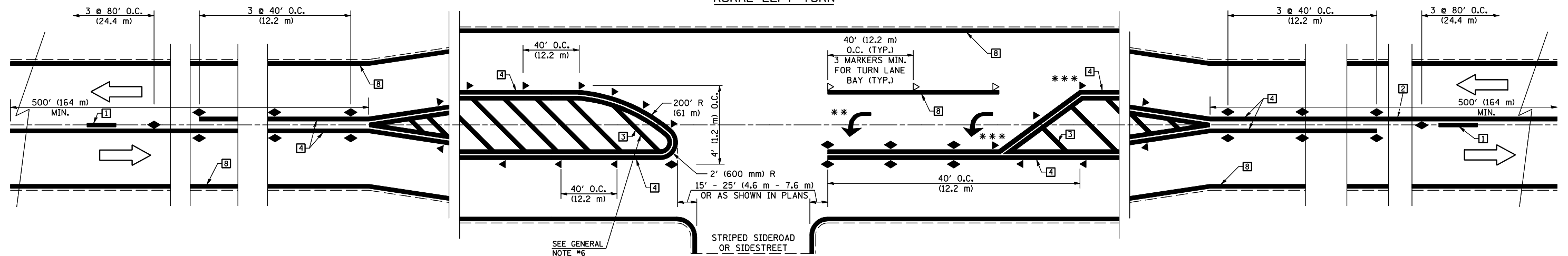
TYPICAL PAVEMENT MARKING LEGEND

- 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.

DISTRICT 5 DETAIL NO. 7800AAA

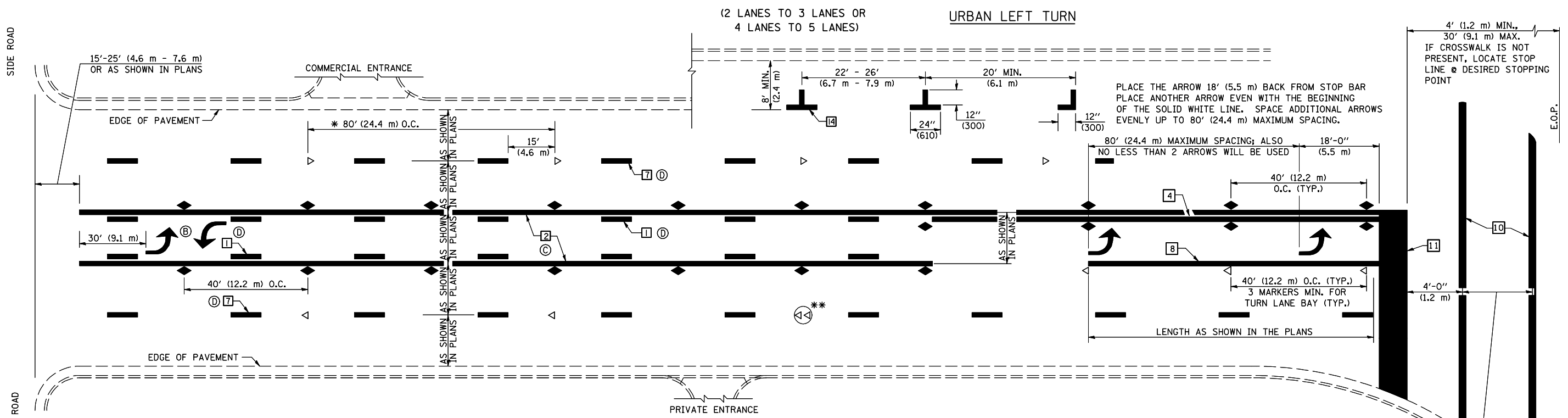
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	20
CONTRACT NO. 70594				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

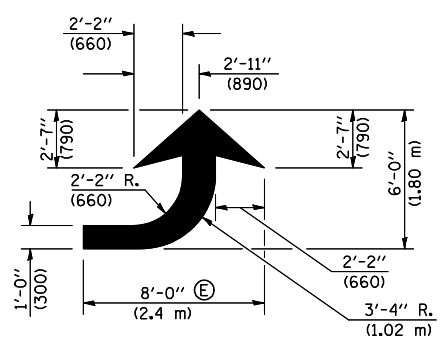


* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

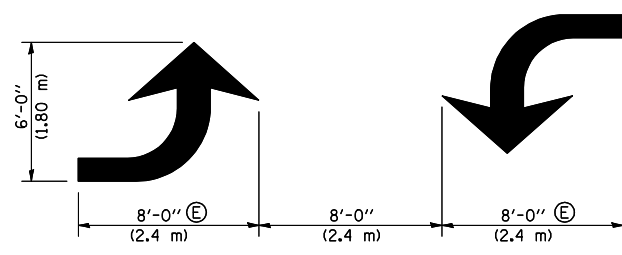
GENERAL NOTES:

- ⓑ 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)



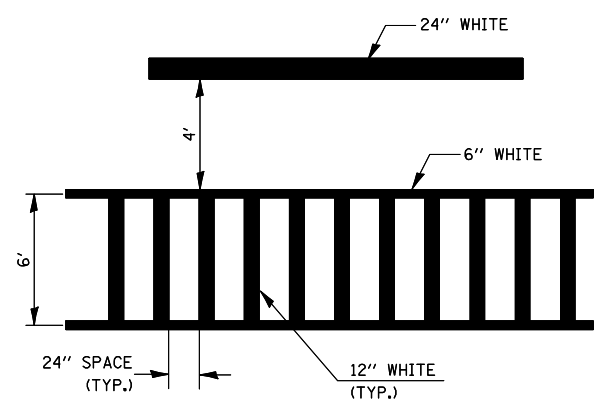
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

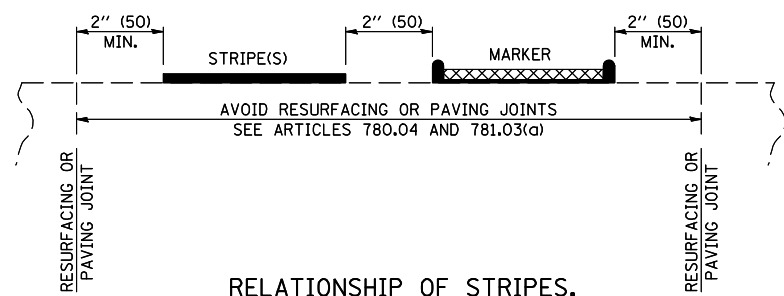


TYPICAL DOUBLE TURN ARROWS (WHITE)

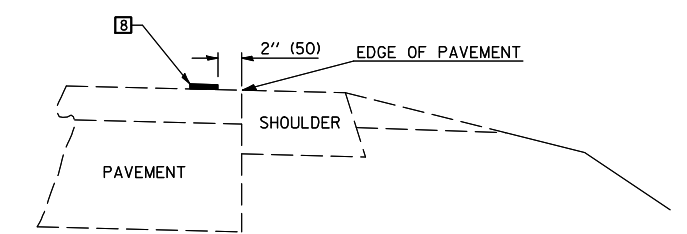
BLOOMINGTON-NORMAL CITY LIMITS ONLY



TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT (SAFETY SHOULDER OR PAVED SURFACE) SEE ARTICLE 780.04

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 = ceerlockjd	DESIGNED -	REVISED - 11/06
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PLOT DATE = 10/19/2009		DATE -	REVISED -

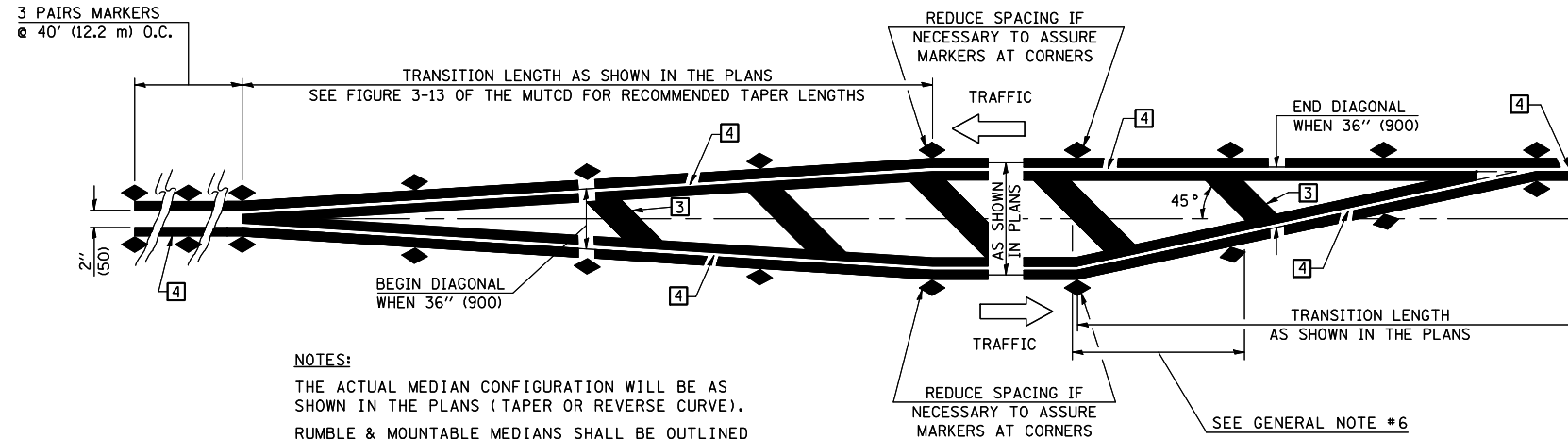
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

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

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	21
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

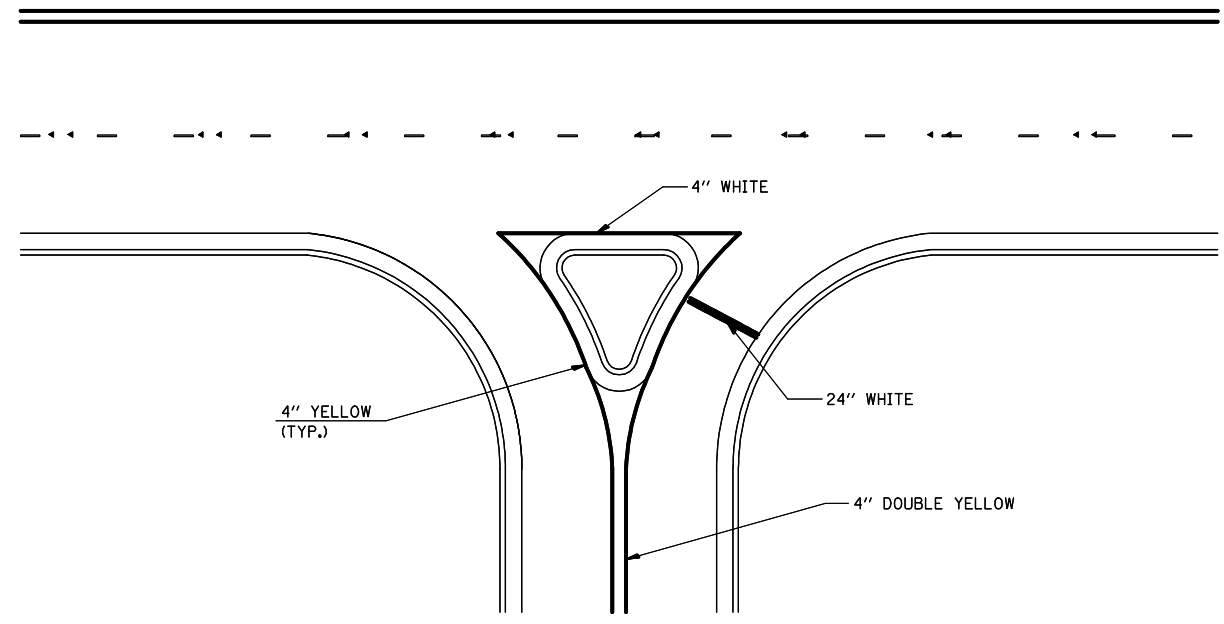


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

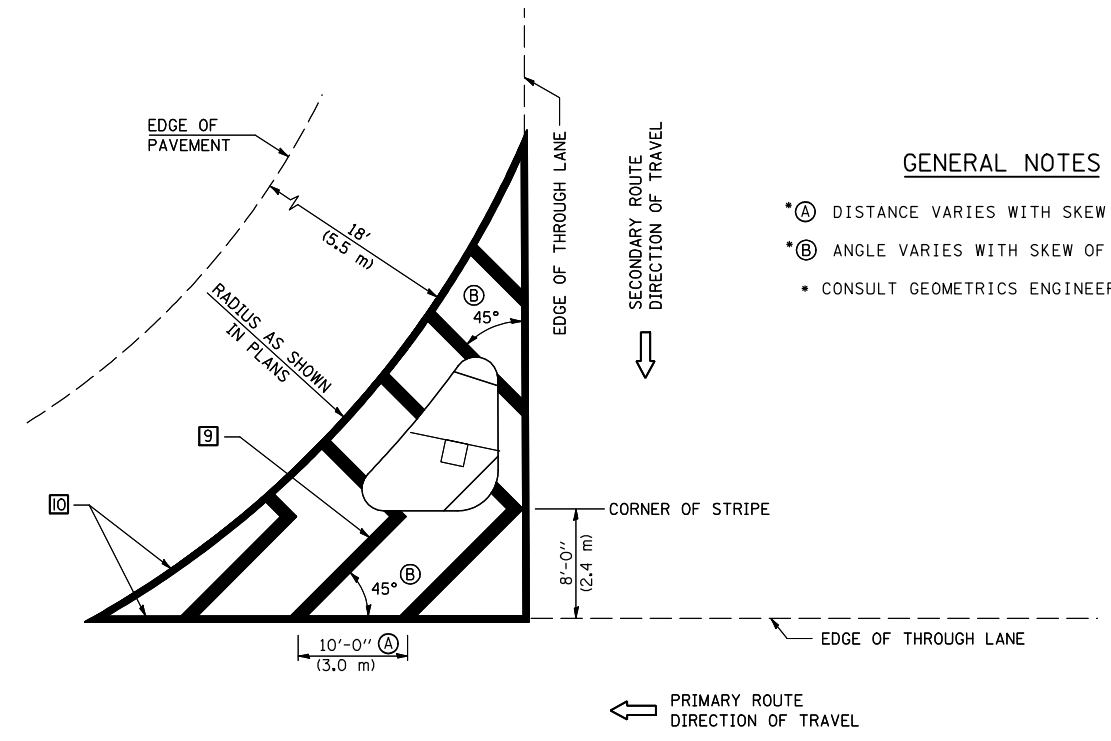
TYPICAL MEDIAN TRANSITIONS

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.

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED - 11/06
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

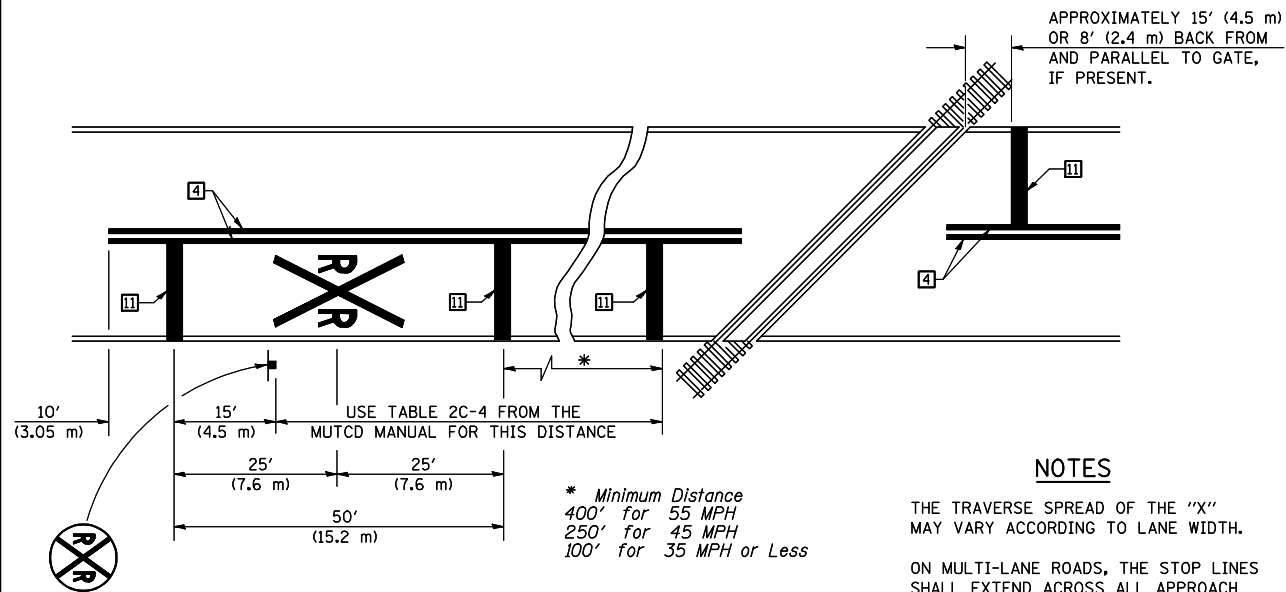
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	22
CONTRACT NO. 70594				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

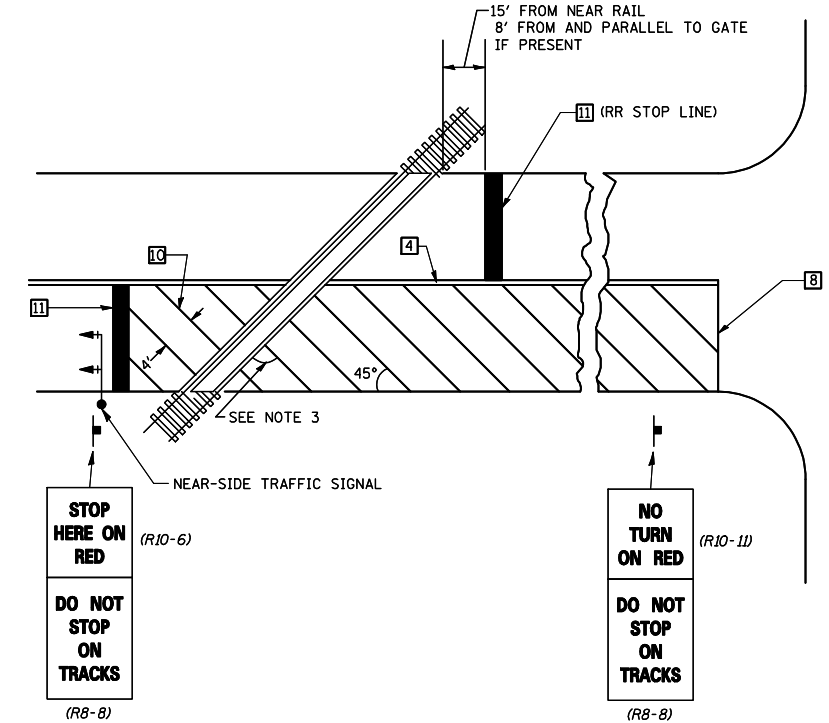
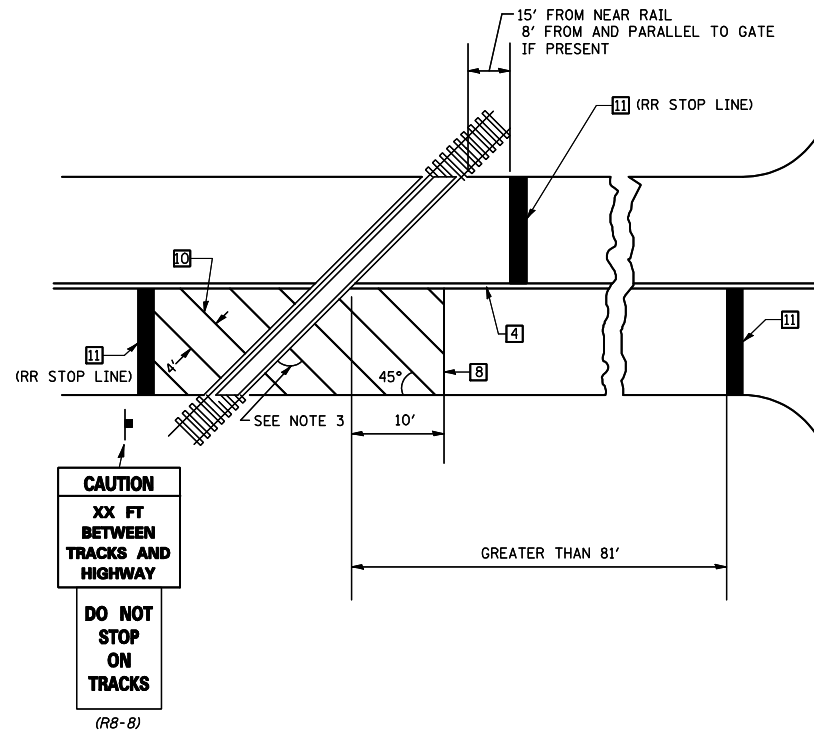
APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.

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

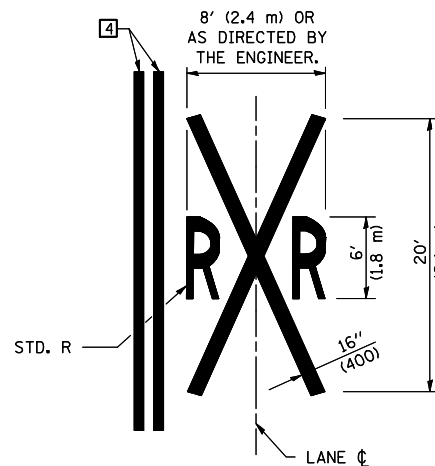
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

* Minimum Distance
400' for 55 MPH
250' for 45 MPH
100' for 35 MPH or Less



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.

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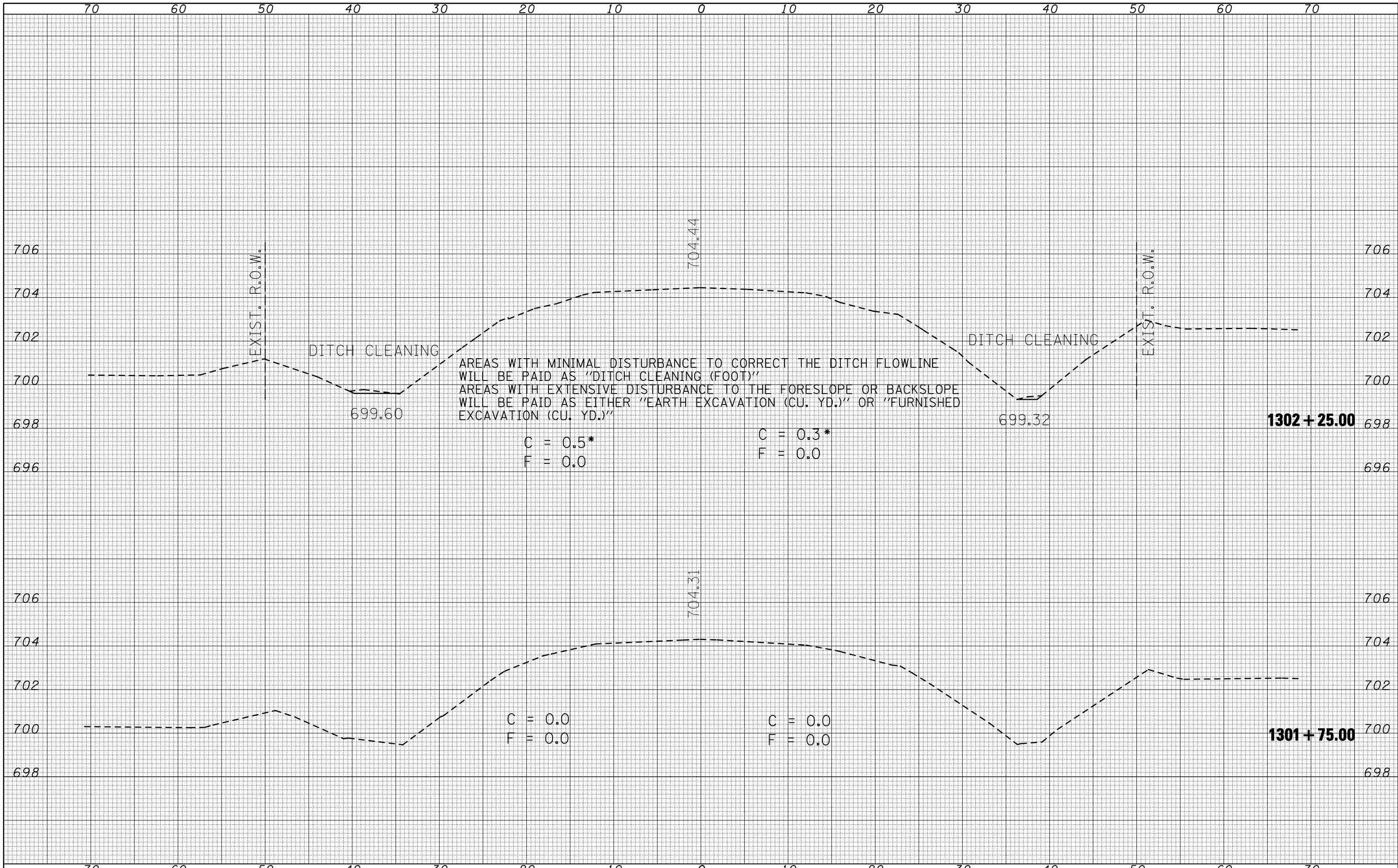
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	



BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

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USER NAME = ceorlockjd
 PLOT SCALE = 10.0000 ' / IN.
 PLOT DATE = 10/19/2009

DESIGNED -
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 CHECKED -
 DATE -

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

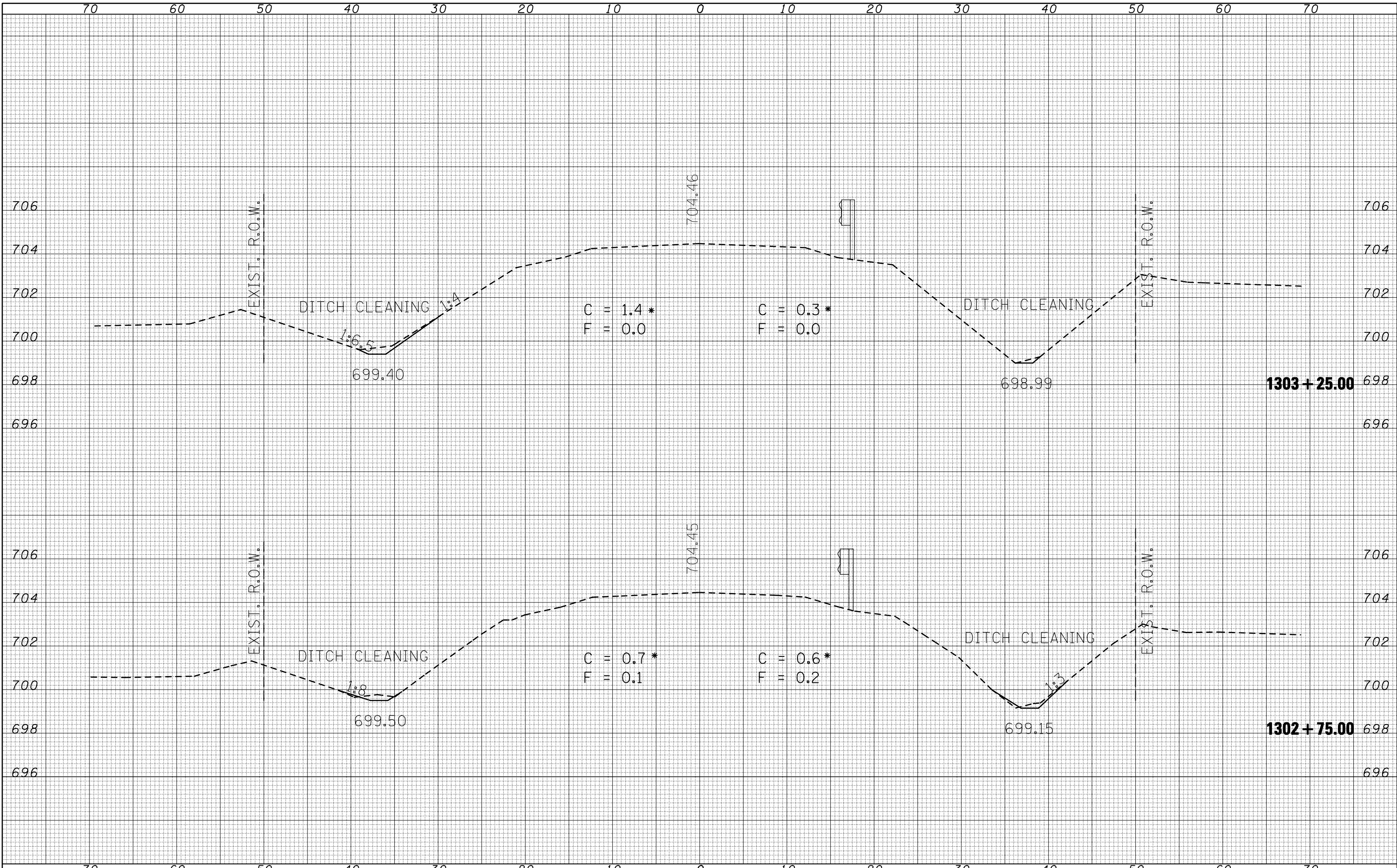
CROSS SECTION SHEETS

SCALE: SHEET NO. OF SHEETS STA. 1301+75.00 TO STA. 1302+25.00

F.A.P. RTE. 697	SECTION 46BR	COUNTY Vermillion	TOTAL SHEETS 31	SHEET NO. 24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

BY	DATE

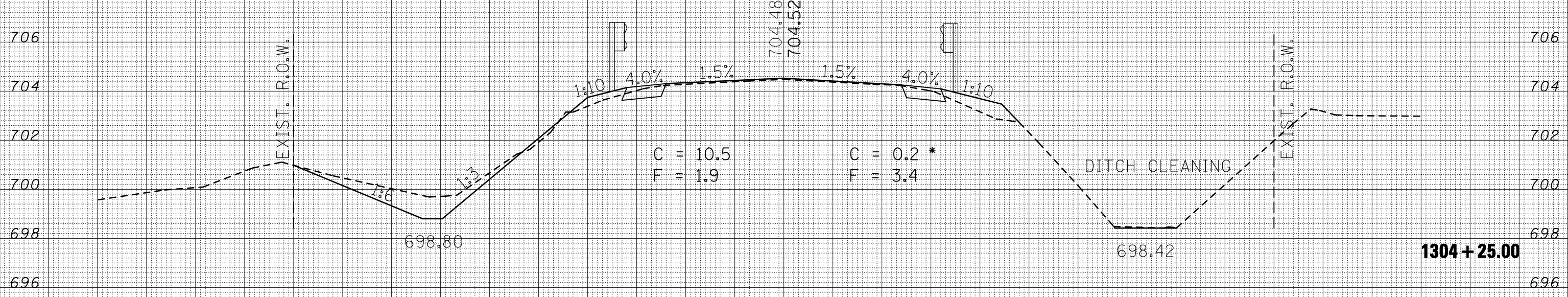
BY	DATE



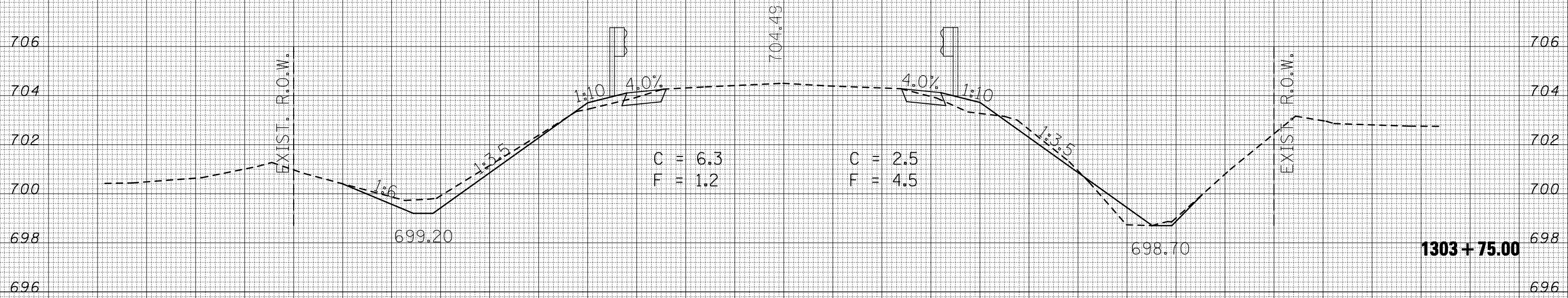
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PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISIED -	CONTRACT NO. 70594							
PLOT DATE = 10/19/2009	DATE -	REVISIED -	ILLINOIS FED. AID PROJECT							

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

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



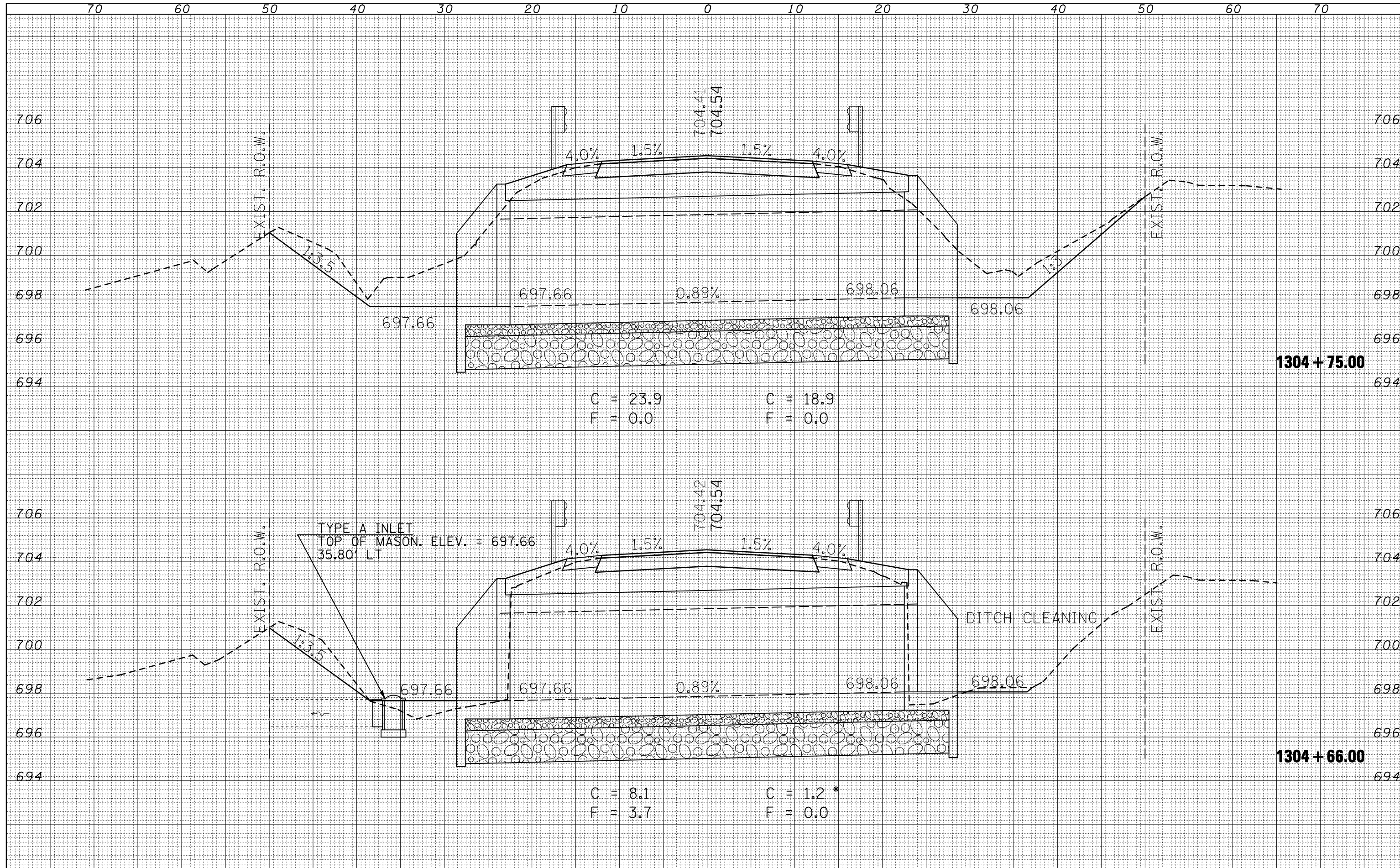
BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = cealockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTION SHEETS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 1303+75.00 TO STA. 1304+25.00	CONTRACT NO. 70594		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

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

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



C = 23.9
F = 0.0

C = 18.9
F = 0.0

C = 8.1
F = 3.7

C = 1.2 *
F = 0.0

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
ca:\pwwork\pwidot\cearlockjd\0132042\1-9.xs.sheets.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

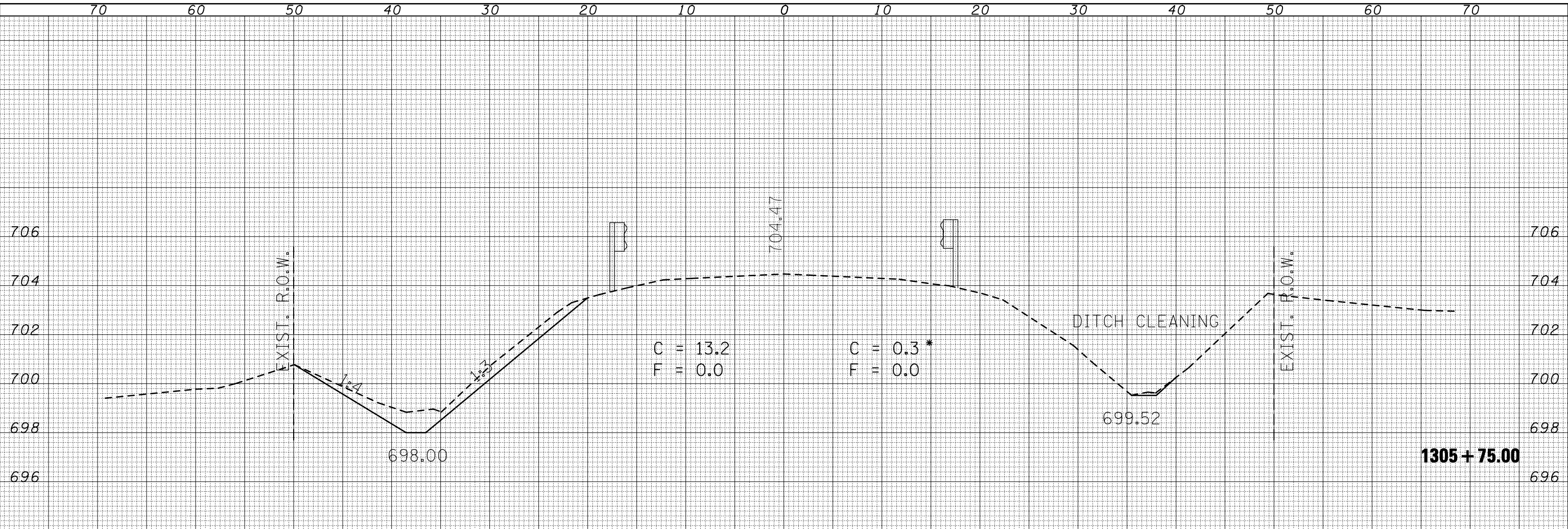
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION SHEETS

SCALE: SHEET NO. OF SHEETS STA. 1304+66.00 TO STA. 1304+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	27
			CONTRACT NO. 70594	
ILLINOIS FED. AID PROJECT				

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

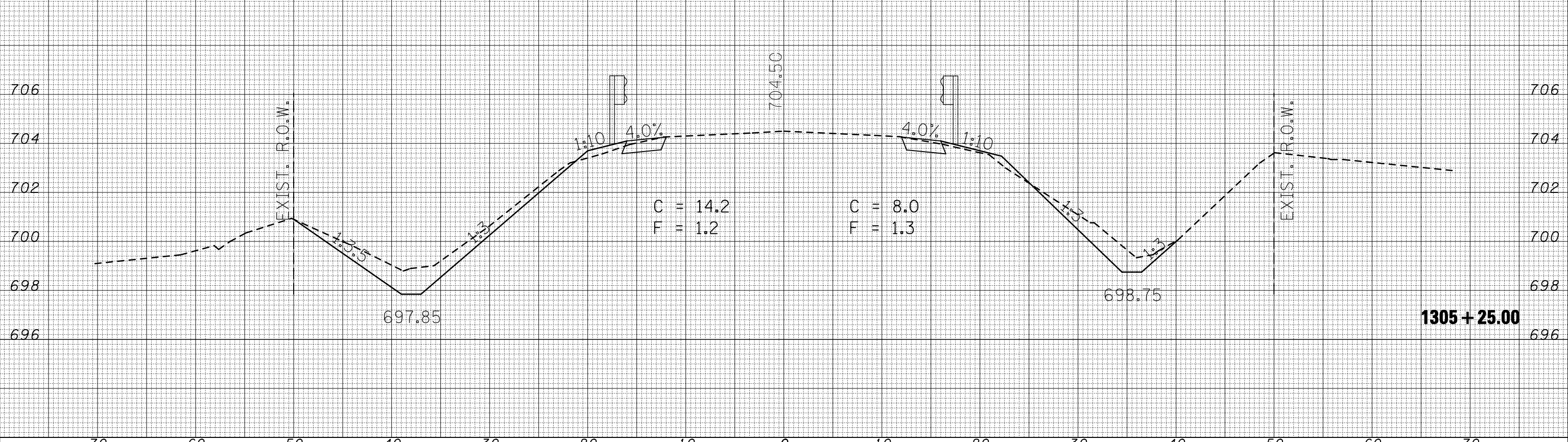


1305 + 75.00

C = 13.2
F = 0.0

C = 0.3*
F = 0.0

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



1305 + 25.00

C = 14.2
F = 1.2

C = 8.0
F = 1.3

FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -
ca:\pwork\pwidot\cearlockjd\0132042\11-9.xs		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

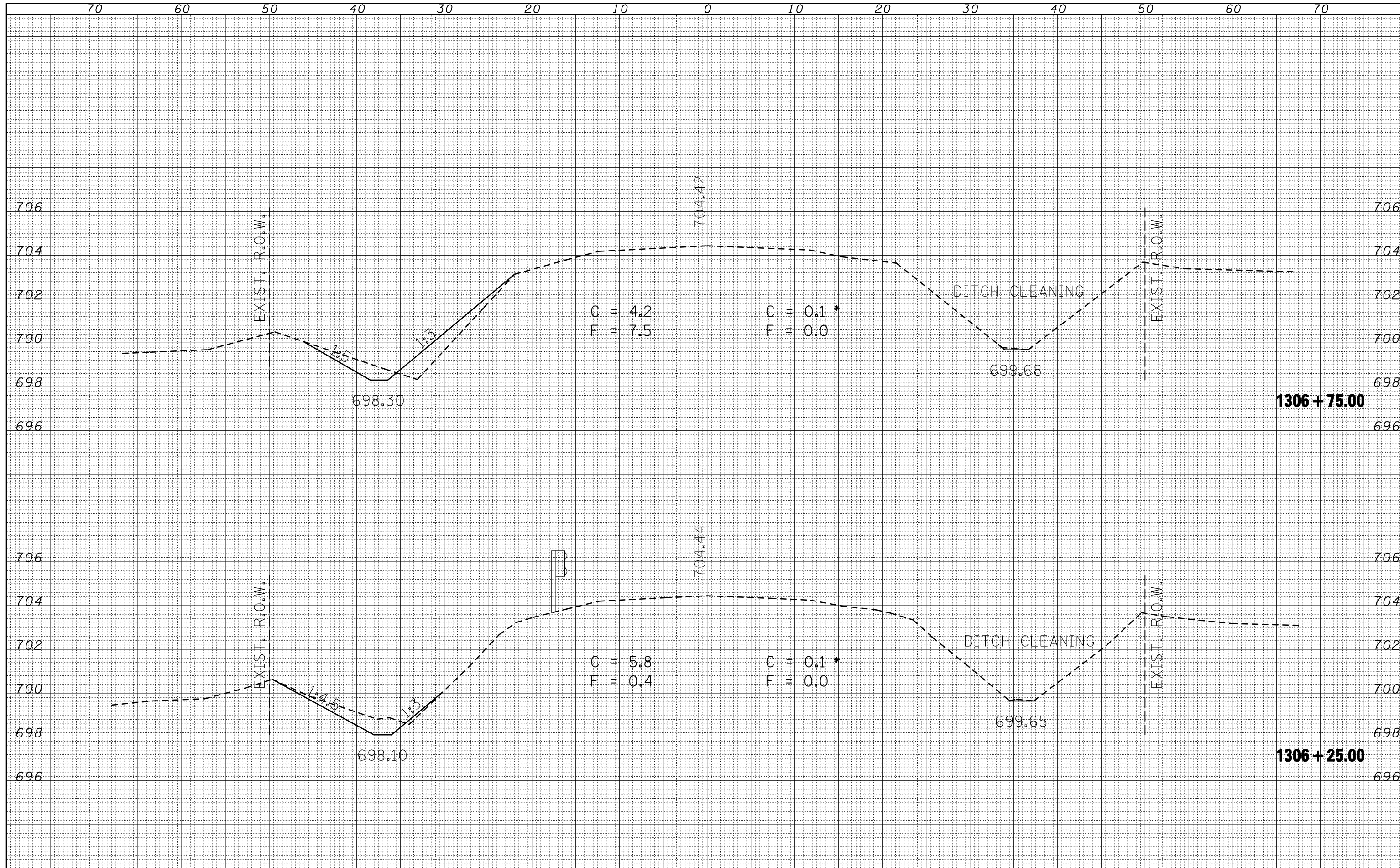
CROSS SECTION SHEETS

SCALE: SHEET NO. OF SHEETS STA. 1305+25.00 TO STA. 1305+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

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

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



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISD -
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		CHECKED -	REVISD -
		DATE -	REVISD -

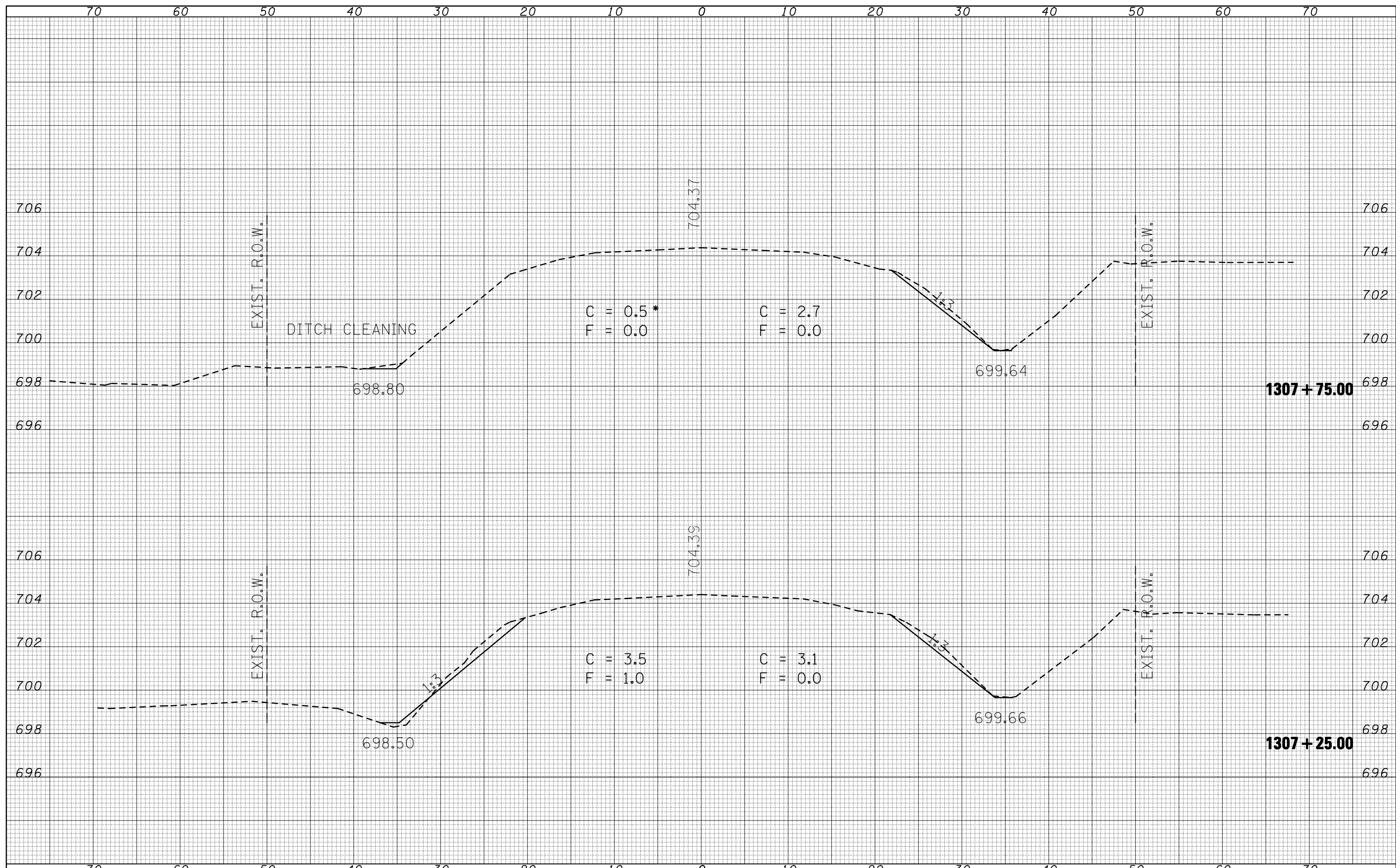
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION SHEETS	
SCALE:	SHEET NO. OF SHEETS STA. 1306+25.00 TO STA. 1306+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
697	46BR	Vermillion	31	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70594	

BY	DATE

BY	DATE



FILE NAME =	USER NAME = cealockjd	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

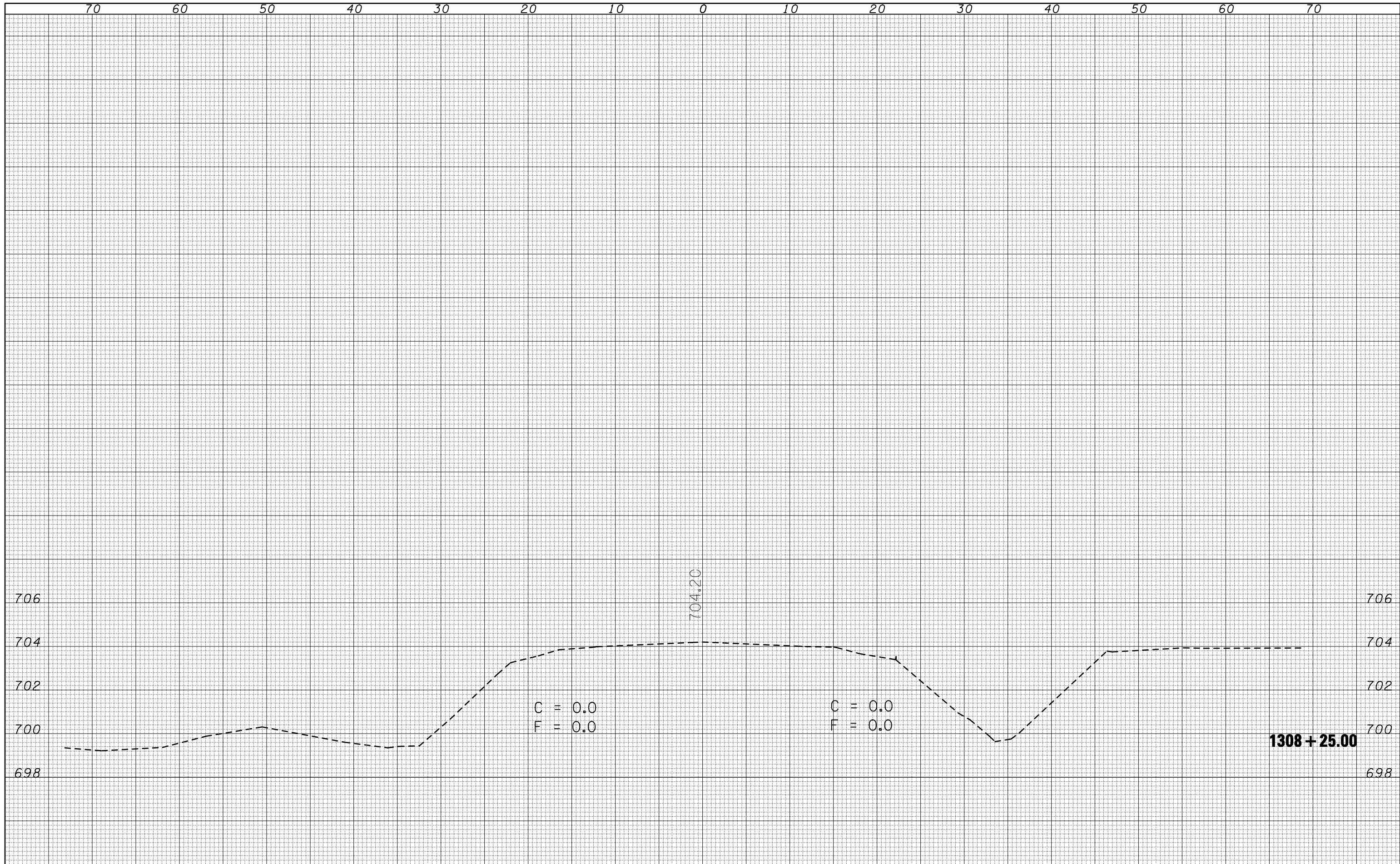
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF SHEETS	STA. 1307+25.00 TO STA. 1307+75.00
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F.A.P. RTE. 697	SECTION 46BR	COUNTY Vermillion	TOTAL SHEETS 31	SHEET NO. 30
			CONTRACT NO. 70594	
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



FILE NAME =	USER NAME = ceorlockjd	DESIGNED -	REVISED -	<p style="text-align: center;">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p style="text-align: center;">CROSS SECTION SHEETS</p>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\PWIDOT\CEARLOCKJD\d0132042\11-9.xs	drawn	DRAWN -	REVISED -		697	46BR	Vermilion	31	31
PLOT SCALE = 10.0000' / IN.	checked	CHECKED -	REVISED -		CONTRACT NO. 70594				
PLOT DATE = 10/19/2009	date	DATE -	REVISED -		ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS		STA. 1308+25.00 TO STA. 1308+25.00		