

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

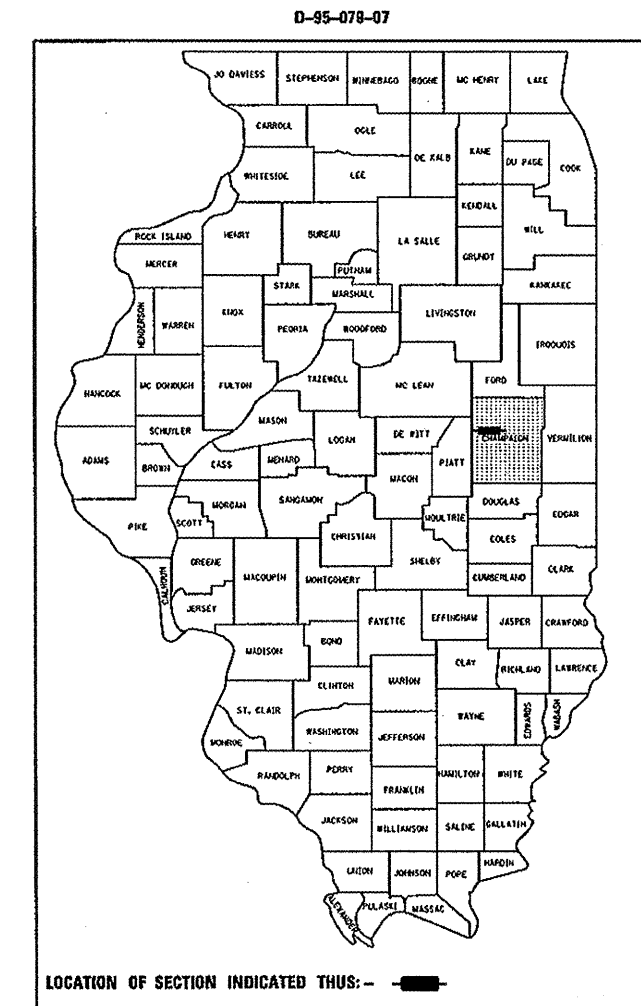
F.A.S. ROUTE 1514 (IL 10)
SECTION 4CR
PROJECT ACRS-1514 (102)
CULVERT REPLACEMENT
CHAMPAIGN COUNTY

C-95-079-07
DITCH WEST OF BONDVILLE

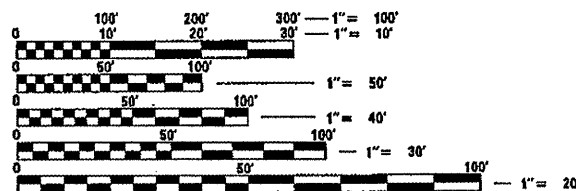
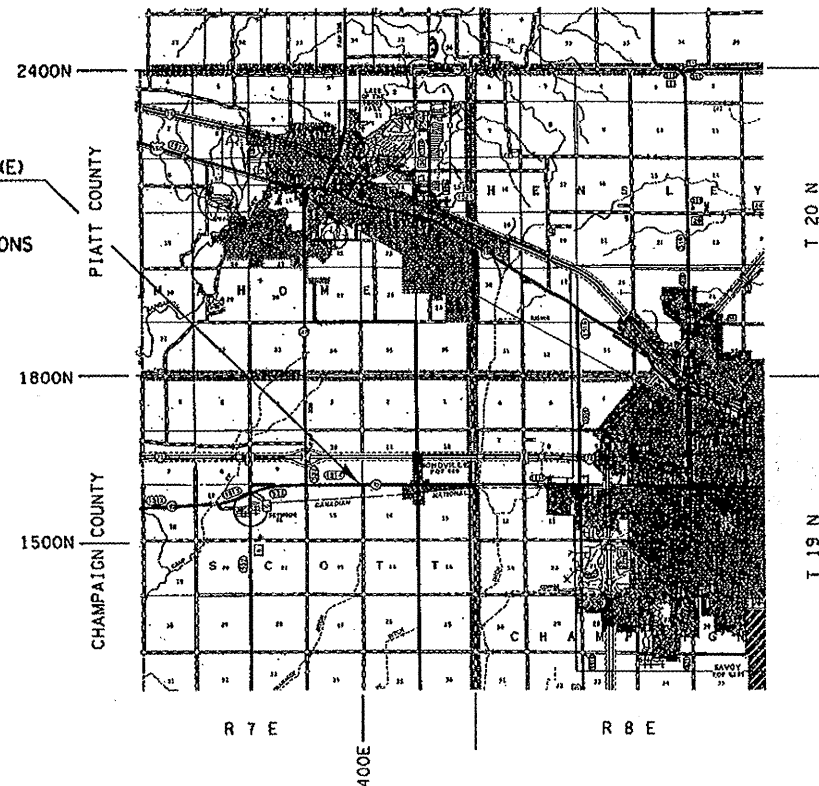
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	Champaign	29	1
		ILLINOIS	CONTRACT NO. 70701	

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

DESIGN DESIGNATION
N/A
MAJOR COLLECTOR IL RTE. 10
ADT 2950 (2009)



S.N. 010-8135 (P); S.N. 010-8115 (E)
STA. 338+61.00
1 @ 8'X2'X40'
PRCBC WITH PRECAST END SECTIONS



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: NANCY FASIG
DESIGNER: TODD BLACK
(217) 465-4181

CONTRACT NO. 70701

GROSS LENGTH = 600.00 FT. = 0.114 MILE
NET LENGTH = 600.00 FT. = 0.114 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 3/24 2010
Joseph E. Lowry
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 25 2010
Scott E. Stitt, P.E./s/c
acting ENGINEER OF DESIGN AND ENVIRONMENT

June 25 2010
Christine M. Reed /s/c
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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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
515001-03	NAME PLATE
602306-02	INLET - TYPE B
604001-03	FRAME AND LIDS TYPE 1
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 \geq 45 MPH
701206-02	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS \geq 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

GENERAL NOTES

G.N.-100
 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.09A
 ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31
 UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

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

G.N.-214 SPECIAL
 GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR GRADING AND SHAPING DITCHES 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 And Incidental HMA Surfacing
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.) and 2" Incidental HMA Surfacing
 **This mixture shall be used for the bottom lifts 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 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.-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.-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 8'x2' BOX SECTION.

FILE NAME = c:\pwork\pwork\1001\BLACKR1\08132012\1054	USER NAME = blackr1 /01-shi-gennote.dgn	DESIGNED - RTB DRAWN - BBP	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.S. RTE. 1514	SECTION 4CR	COUNTY CHAMPAIGN	TOTAL SHEETS 29	SHEET NO. 3
PLOT SCALE = 48.0263' / IN. PLOT DATE = 3/30/2010	CHECKED - DATE - 03/05/10	REVISED - REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 70701			

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 1514 (IL 10)
 CHAMPAIGN COUNTY
 S.N.010-8135
 STA. 336+00.00
 TO
 STA. 342+00.00
 RURAL 2-LANE
 80% FED 20% STATE
 Y007

LOCATION OF WORK: FAS 1514 (IL 10)
 CHAMPAIGN COUNTY
 S.N.010-8135
 STA. 336+00.00
 TO
 STA. 342+00.00
 RURAL 2-LANE
 80% FED 20% STATE
 Y007

CONSTRUCTION TYPE CODE:

CONSTRUCTION TYPE CODE:

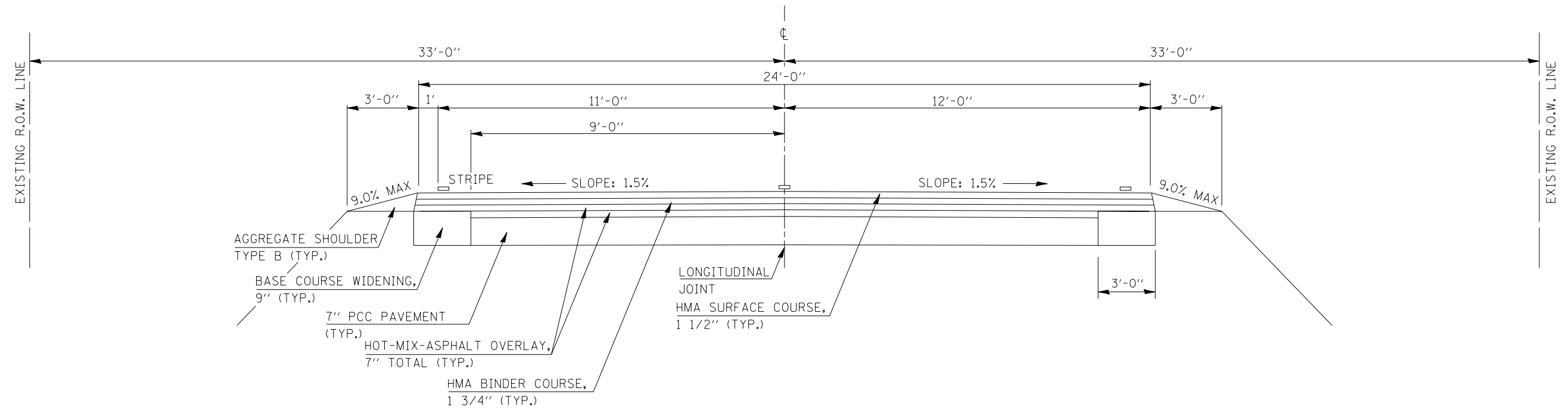
CODE NO	ITEM	UNIT	TOTAL QUANTITY
20700220	POROUS GRANULAR EMBANKMENT	CU YD	140.0
21400100	GRADING AND SHAPING DITCHES	FOOT	340.0
25000200	SEEDING, CLASS 2	ACRE	0.10
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	10.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	10.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	10.0
25100115	MULCH, METHOD 2	ACRE	0.10
25100630	EROSION CONTROL BLANKET	SQ YD	25.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10.0
28000305	TEMPORARY DITCH CHECKS	FOOT	100.0
28000400	PERIMETER EROSION BARRIER	FOOT	415.0
28000500	INLET AND PIPE PROTECTION	EACH	6.0
28100201	STONE RIPRAP, CLASS A1	TON	55.0
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	200.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	65.0
40600300	AGGREGATE (PRIME COAT)	TON	0.25
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	10.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	2.0
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	104.0

CODE NO	ITEM	UNIT	TOTAL QUANTITY
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	20.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
51500100	NAME PLATES	EACH	1.0
54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	2.0
54020802	PRECAST CONCRETE BOX CULVERT 8' X 2' (M273)	FOOT	40.0
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	185.0
61101016	STORM SEWERS PROTECTED, CLASS A, 14"	FOOT	80.0
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2.0
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	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
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	10.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	500.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2.0
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	500.0
X6660410	REMOVE RIGHT-OF-WAY MARKERS	EACH	1.0
XX005655	STORM SEWER REMOVAL UNDER 18"	FOOT	80.0
• SPECIALTY ITEMS			

EXISTING TYPICAL CROSS SECTION

F.A.S. 1514 (IL ROUTE 10)

STATION TO STATION
336+00.00 342+00.00



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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTION			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

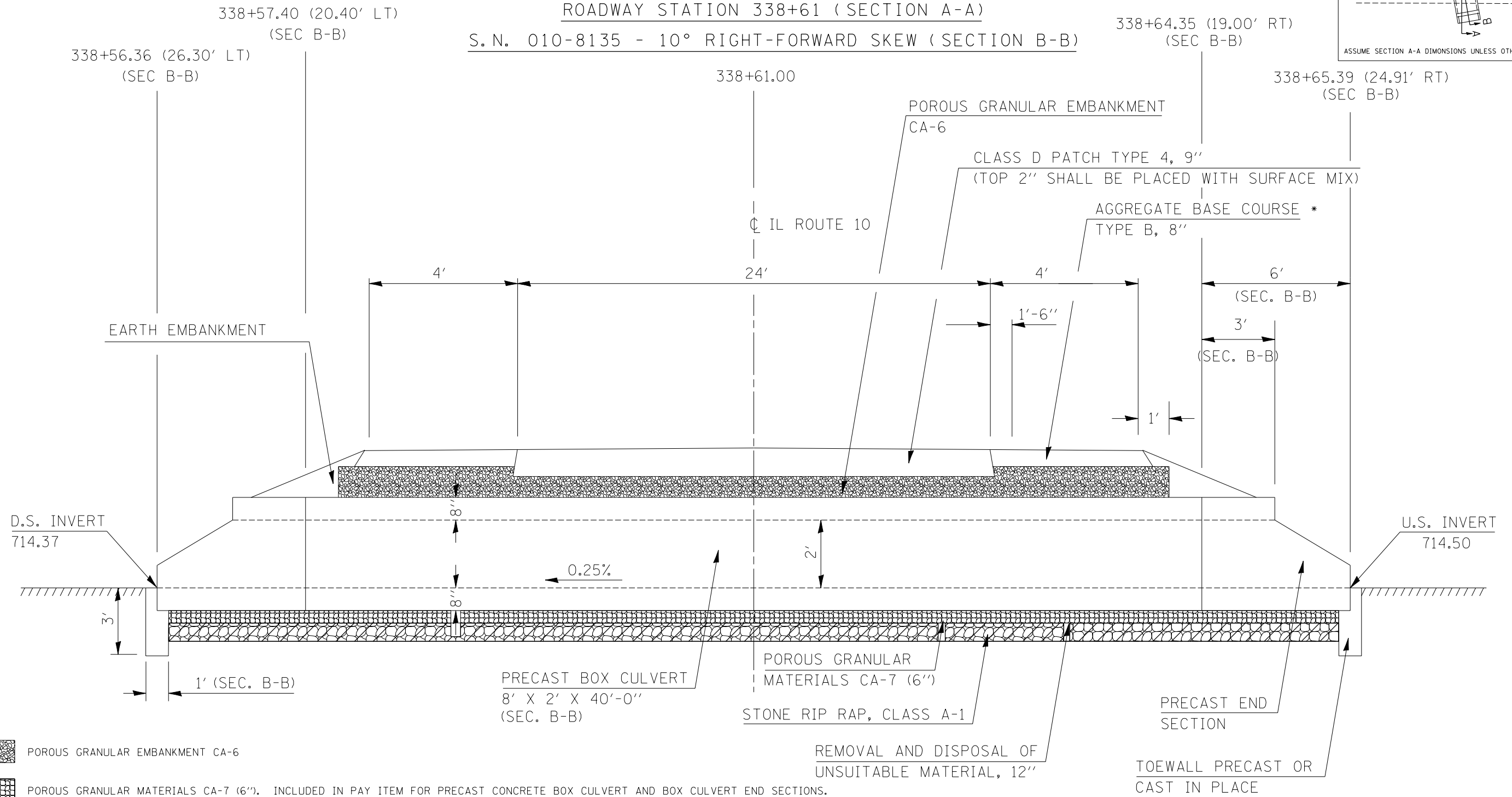
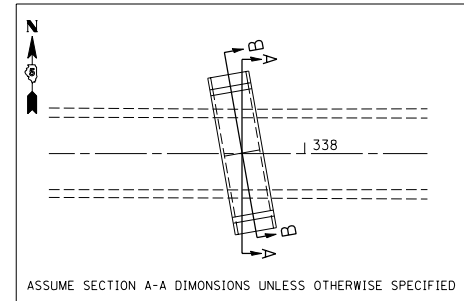
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	5
CONTRACT NO. 70701				
ILLINOIS FED. AID PROJECT				





PROPOSED BOX CULVERT SECTION

F. A. S. 1514 (IL ROUTE 10)

ROADWAY STATION 338+61 (SECTION A-A)

S. N. 010-8135 - 10° RIGHT-FORWARD SKEW (SECTION B-B)



-  POROUS GRANULAR EMBANKMENT CA-6
-  POROUS GRANULAR MATERIALS CA-7 (6''). INCLUDED IN PAY ITEM FOR PRECAST CONCRETE BOX CULVERT AND BOX CULVERT END SECTIONS.
-  STONE RIP RAP, CLASS A-1.
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, 12''. INCLUDED IN PAY ITEM FOR STONE RIPRAP, CLASS A-1.

* AGGREGATE WEDGE SHOULDER, TYPE B. TO BE PLACED WITHIN PROJECT LIMITS AT 3' WIDTH AS NEEDED AND DETERMINED BY ENGINEER.

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	PLOT DATE = 5/4/2010	DATE - 3-3-2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED BOX CULVERT SECTION

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70701	

SCHEDULE OF QUANTITIES EROSION CONTROL DETAIL

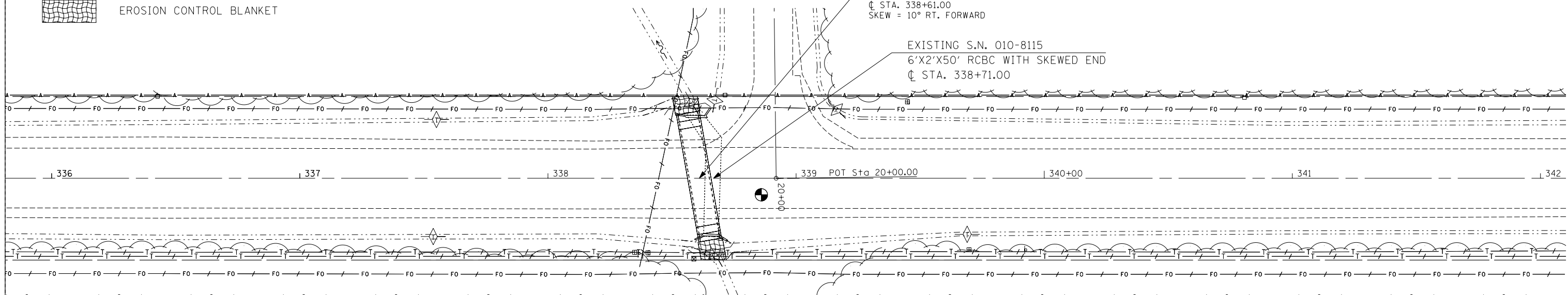


TEMPORARY DITCH CHECK

EROSION CONTROL BLANKET

PROPOSED S.N. 010-8135
8'X2'X40' PRCBC WITH PRECAST END SECTIONS
CL STA. 338+61.00
SKEW = 10° RT. FORWARD

EXISTING S.N. 010-8115
6'X2'X50' RCBC WITH SKEWED END
CL STA. 338+71.00



28000500 INLET & PIPE PROTECTION

STATION	OFFSET		(EACH)
338+71	27.0' LT	SN 010-8115	1.0
338+55	27.0' LT	SN 010-8135	1.0
338+75	30.0' LT	Junction Vault*	1.0
338+71	25.0' RT	SN 010-8115	1.0
338+61	25.0' RT	SN 010-8135	1.0
338+75	30.0' RT	Junction Vault*	1.0
TOTAL =			6.0
USE =			6.0

28000400 PERIMETER EROSION BARRIER

STATION	TO	STATION	LENGTH (FOOT)
ROW LT	337+50	338+80	130.0
ROW LT	339+15	339+75	60.0
ROW RT	337+50	339+75	225.0
TOTAL =			415.0
USE =			415.0

50100100 REMOVAL EXISTING STRUCTURE

STATION	(EACH)
338+71	SN 010-8115 with 9'x24' RC SLAB
TOTAL =	
USE =	

61100500 EXPLORATION TRENCH, 52"

STATION	TO	STATION	LENGTH (FOOT)
ROW LT	338+00	338+85	85.0
ROW RT	338+00	339+00	100.0
TOTAL =			185.0
USE =			185.0

*Junction Vault Location to be Determined by Engineer During Construction

EARTHWORK AND SEEDING

28000305 TEMPORARY DITCH CHECKS

STATION	OFFSET	(FOOT)
337+51	23.0' LT	8.0
337+51	23.0' RT	8.0
338+55	32.0' LT	26.0
338+65	32.0' RT	26.0
338+70	32.0' LT	12.0
339+20	23.0' LT	8.0
339+71	23.0' RT	8.0
TOTAL		96.0
USE =		100.0

STATION	TO	STATION	OFFSET	21400100 GRADING AND SHAPING DITCHES (FOOT)	20700220 POUROUS GRANULAR EMBANK (CU YD)	25000200 SEEDING CL 2 (ACRE)	25000400 NITROGEN FERTILIZER NUTRIENT (POUND)	25000500 PHOSPORUS FERTILIZER NUTRIENT (POUND)	25000600 POTASSIUM FERTILIZER NUTRIENT (POUND)	25100115 MULCH METHOD 2 (ACRE)	28000250 TEMP EROS CTL SEEDING (POUND)	25100630 EROS CTL BLANKET (SQ YD)
337+51.00		338+70.00	20.0' LT - 25.0' LT	119.0	-	-	-	-	-	-	-	-
337+51.00		339+71.00	20.0' RT - 25.0' RT	220.0	-	-	-	-	-	-	-	-
338+41.50		338+56.25	17.0' LT - 17.0' RT	-	68.4	-	-	-	-	-	-	-
338+65.75		338+80.50	17.0' LT - 17.0' RT	-	68.4	-	-	-	-	-	-	-
338+66.66		338+80.50	17.0' LT - 30.0' LT	-	2.8	-	-	-	-	-	-	-
337+51.00		338+70.00	15.0' LT - 25.0' LT	-	-	0.03	3.0	3.0	3.0	0.03	3.0	-
337+51.00		339+71.00	15.0' RT - 25.0' RT	-	-	0.05	5.0	5.0	5.0	0.05	5.0	-
338+50.00		338+60.00	26.0' LT - 36.0' LT	-	-	-	-	-	-	-	-	11.1
338+60.00		338+70.00	25.0' RT - 35.0' RT	-	-	-	-	-	-	-	-	11.1
TOTAL =				339.0	139.6	0.08	8.0	8.0	8.0	0.08	8.0	22.2
USE =				340.0	140.0	0.10	10.0	10.0	10.0	0.10	10.0	25.0

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	PLOT DATE = 5/4/2010	DATE - 3-3-2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
EROSION CONTROL DETAIL**

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 70701	

SCHEDULE OF QUANTITIES

28100201 STONE RIPRAP, CLASS A1

	STATION	OFFSET	LENGTH (FOOT)	WIDTH (FOOT)	(TON)
LT	338+61	0' LT - 26' LT	15.5	26.0	27.0
RT	338+61	0' RT - 25' RT	15.5	25.0	26.0
TOTAL =					53.0
USE =					55.0

35102000 AGGREGATE BASE COURSE, TYPE B, 8 INCH

	STATION	TO	STATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ YD)
LT	337+51		339+71	220.0	4.0	97.8
RT	337+51		339+71	220.0	4.0	97.8
TOTAL =						195.6
USE =						200.0

54020802 PRE-CAST BOX CULVERT 8 X 2 (M273)

STATION		(FOOT)
338+61.00	SN 010-8135	40.0
TOTAL =		40.0
USE =		40.0

54001001 BOX CULVERT END SECTION, CULVERT 1

	STATION		(EACH)
LT	338+61.00	SN 010-8135	1.0
RT	338+61.00	SN 010-8135	1.0
TOTAL =			2.0
USE =			2.0

51500100 NAME PLATES

	STATION		(EACH)
RT	338+61.00	SN 010-8135	1.0
TOTAL =			1.0
USE =			1.0

61101016 STORM SEWERS, CLA, PROTECTED, 14"

STATION		(FOOT)
338+71	LOCATION TO BE DETERMINED BY ENGINEER DURING CONSTRUCTION	80.0
TOTAL =		80.0
USE =		80.0

61133200 FIELD TILE JUNCTION VAULT, 3' DIA

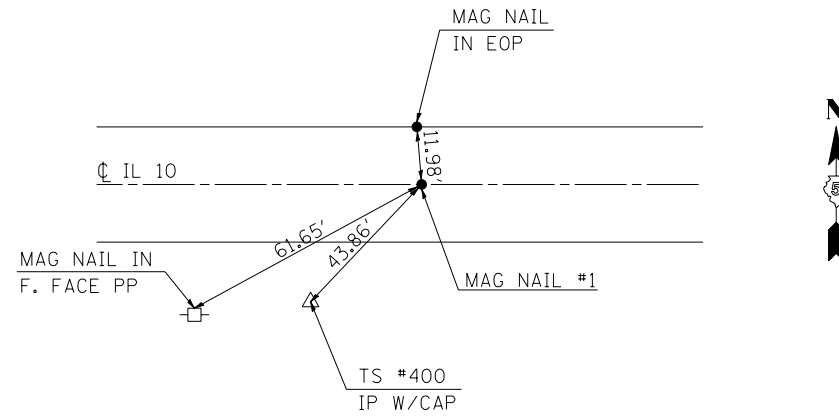
STATION		(EACH)
338+71	LOCATIONS TO BE DETERMINED BY ENGINEER DURING CONSTRUCTION	2.0
TOTAL =		2.0
USE =		2.0

XX005655 STORM SEWER REMOVAL, UNDER 18"

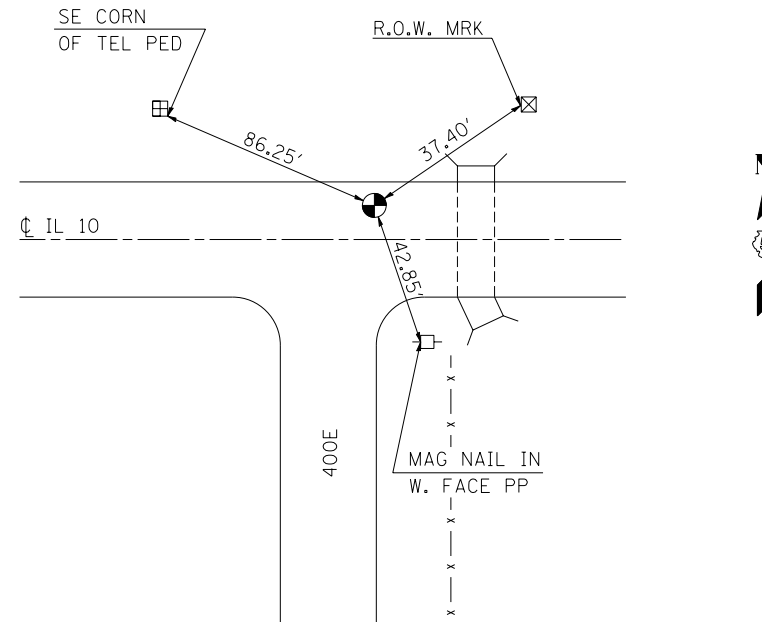
STATION		(FOOT)
338+71	LOCATION TO BE DETERMINED BY ENGINEER DURING CONSTRUCTION	80.0
TOTAL =		80.0
USE =		80.0

TIE POINTS

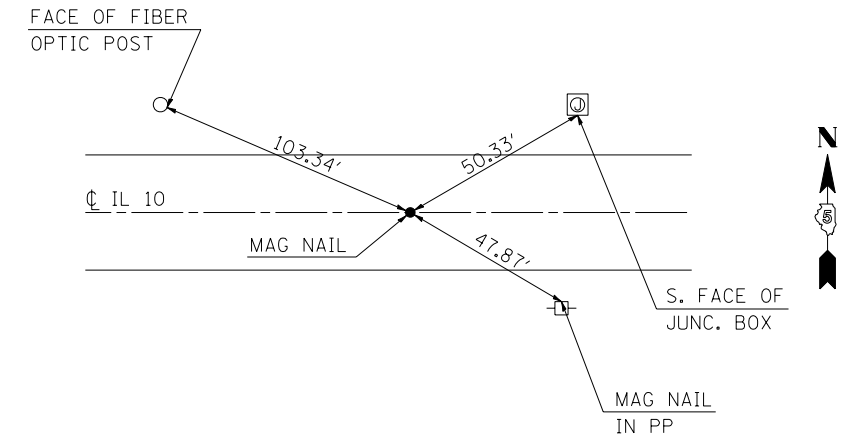
P.O.T. #1
STATION 328 + 67.66



SECTION CORNER #2
STATION 338 + 86, 6.67' RT.



P.O.T. #7
STATION 345 + 59.83
BASIS OF STATIONING



BENCHMARKS

BENCHMARK #4863-1
CHISELED SQUARE ON THE SOUTHEAST CORNER
OF THE SOUTH HEADWALL
S.N. 010-8115
STATION 338+56, LT. 25', ELEV. = 717.612

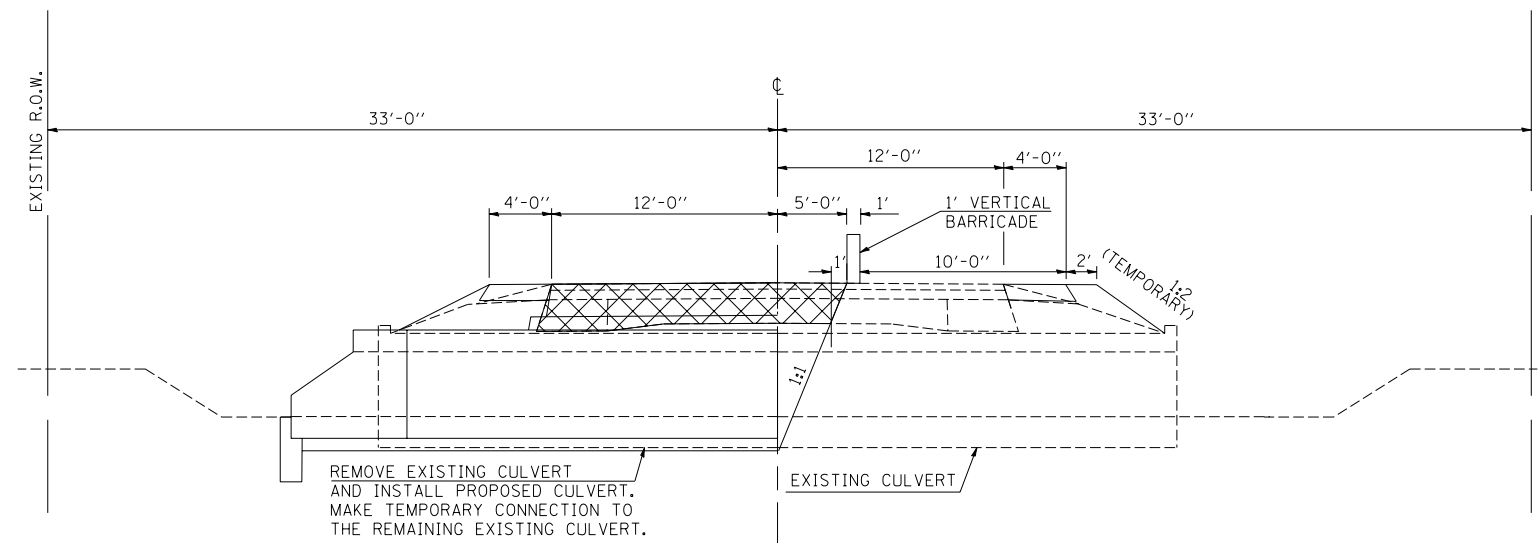
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	PLOT DATE = 3/30/2010	DATE - 03/05/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIE POINTS & BENCHMARKS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	10
			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				



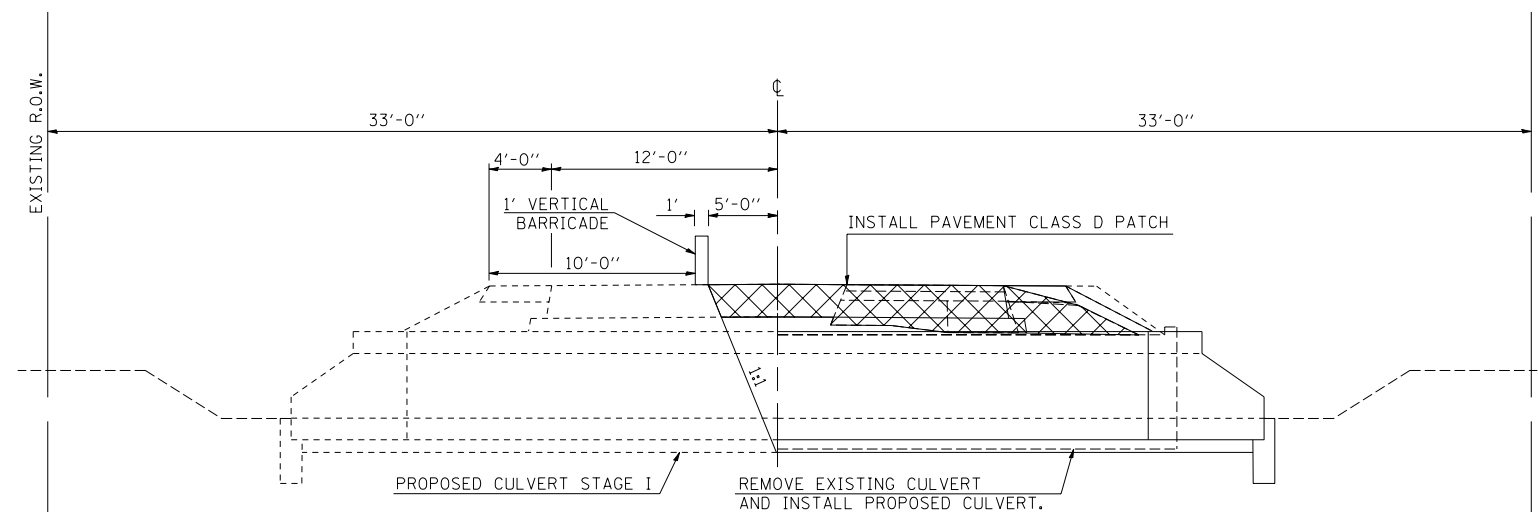
TYPICAL STAGE I SECTION VIEW

PRE-STAGE NOTES:

- ① CONSTRUCT PROPOSED AGGREGATE BASE COURSE TYPE B, 8" FOR STAGE CONSTRUCTION TRAFFIC, 110' EACH SIDE OF PROPOSED CULVERT FOR STAGE I TRAFFIC.
- ② SAW CUT PAVEMENT

STAGE I NOTES:

- ① INSTALL TRAFFIC CONTROL AND PROTECTION 701201, PLACE 1' VERTICAL BARRICADE AROUND CULVERT CONSTRUCTION AREA.
- ② REMOVE EXISTING PAVEMENT AND EXISTING DOWNSTREAM END OF THE CULVERT TO THE APPROXIMATE CENTERLINE OF THE ROAD.
- ③ INSTALL THE DOWNSTREAM PORTION OF THE PROPOSED CULVERT AND MAINTAIN DRAINAGE DOWNSTREAM.
- ④ BACKFILL THE TRENCH USING POROUS GRANULAR EMBANKMENT, PLACE CLASS D PAVEMENT PATCH AND AGGREGATE SHOULDER.
- ⑤ OPEN TO TWO LANE & TWO-WAY TRAFFIC AT THE END OF EACH WORK DAY.



TYPICAL STAGE II SECTION VIEW

PRE-STAGE NOTES:

- ① CONSTRUCT PROPOSED AGGREGATE BASE COURSE TYPE B, 8" FOR STAGE CONSTRUCTION TRAFFIC, 110' EACH SIDE OF PROPOSED CULVERT FOR STAGE II TRAFFIC.
- ② SAW CUT PAVEMENT

STAGE II NOTES:

- ① INSTALL TRAFFIC CONTROL PROTECTION 701201.
- ② REMOVE PAVEMENT AND PART OF CLASS D PATCH AS NECESSARY FOR CULVERT REMOVAL AND REPLACEMENT.
- ③ REMOVE EXISTING 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.

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	PLOT DATE = 3/30/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CULVERT STAGE CONSTRUCTION

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	12
CONTRACT NO. 70701				
ILLINOIS FED. AID PROJECT				

- INCIDENTAL HMA SURFACING
- CLASS D PATCHES, TYPE IV, 9"
- PAVEMENT REMOVAL (INCLUDED IN PAY ITEMS FOR CLASS D PATCH & REMOVAL OF EXISTING STRUCTURE)

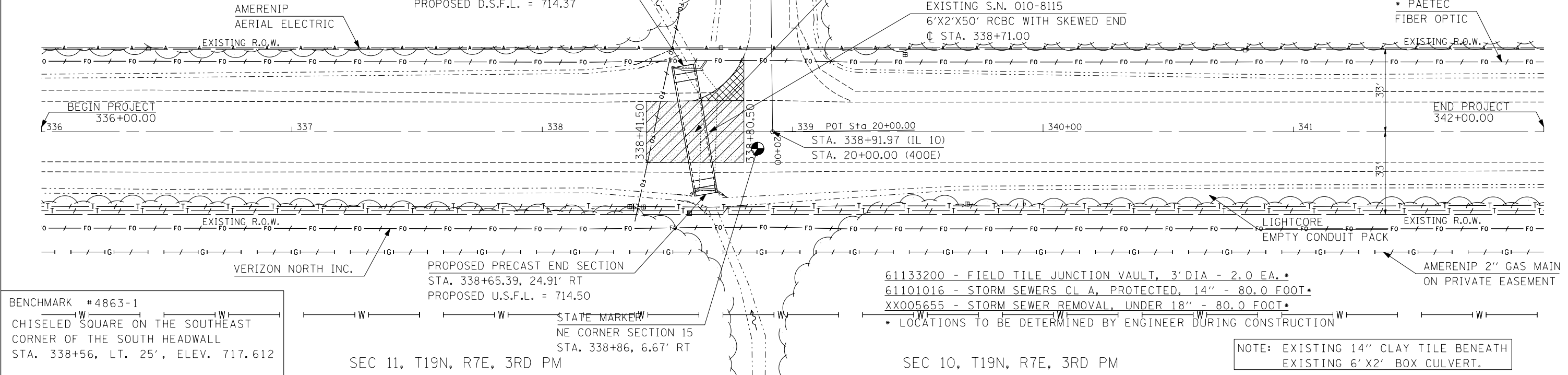
SEC 14, T19N, R7E, 3RD PM

SEC 15, T19N, R7E, 3RD PM

* PAETEC FIBER IS 4' DEEP, 16' FROM EOP.
1' FROM WINGWALL OF EXISTING CULVERT.



PLAN	DATE
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SURVEYED PLOTTED CHECKED NOTE BOOK NO.	DATE
SURVEYED PLOTTED CHECKED NOTE BOOK NO.	DATE



BENCHMARK #4863-1
CHISELED SQUARE ON THE SOUTHEAST CORNER OF THE SOUTH HEADWALL
STA. 338+56, LT. 25', ELEV. 717.612

SEC 11, T19N, R7E, 3RD PM

SEC 10, T19N, R7E, 3RD PM

NOTE: EXISTING 14" CLAY TILE BENEATH EXISTING 6' X2' BOX CULVERT.

722																					722				
720																					720				
718																					718				
716																					716				
714																					714				
712																					712				
710																					710				
708	WB DITCH	715.21	715.13	715.06	715.12	715.17	715.17	714.96	714.62	715.42	715.16	716.26	716.26	717.09	717.50	717.91	718.35	718.79	708						
706	EB DITCH	715.61	715.54	715.47	715.58	715.69	715.69	713.82	714.41	718.75	718.79	718.94	719.09	719.24	719.39	719.54	719.69	719.84	720.46	706					
		718.01	718.00	718.00	718.08	718.15	718.23	718.31	718.39	718.46	718.55	718.64	718.72	718.79	718.94	719.09	719.24	719.39	719.54	719.69	719.84	720.00	720.15	720.31	720.46
		336+00	336+50	337+00	337+50	338+00	338+50	339+00	339+50	340+00	340+50	341+00	341+50	342+00											

PROFILE	DATE
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SURVEYED PLOTTED CHECKED NOTE BOOK NO.	DATE

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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

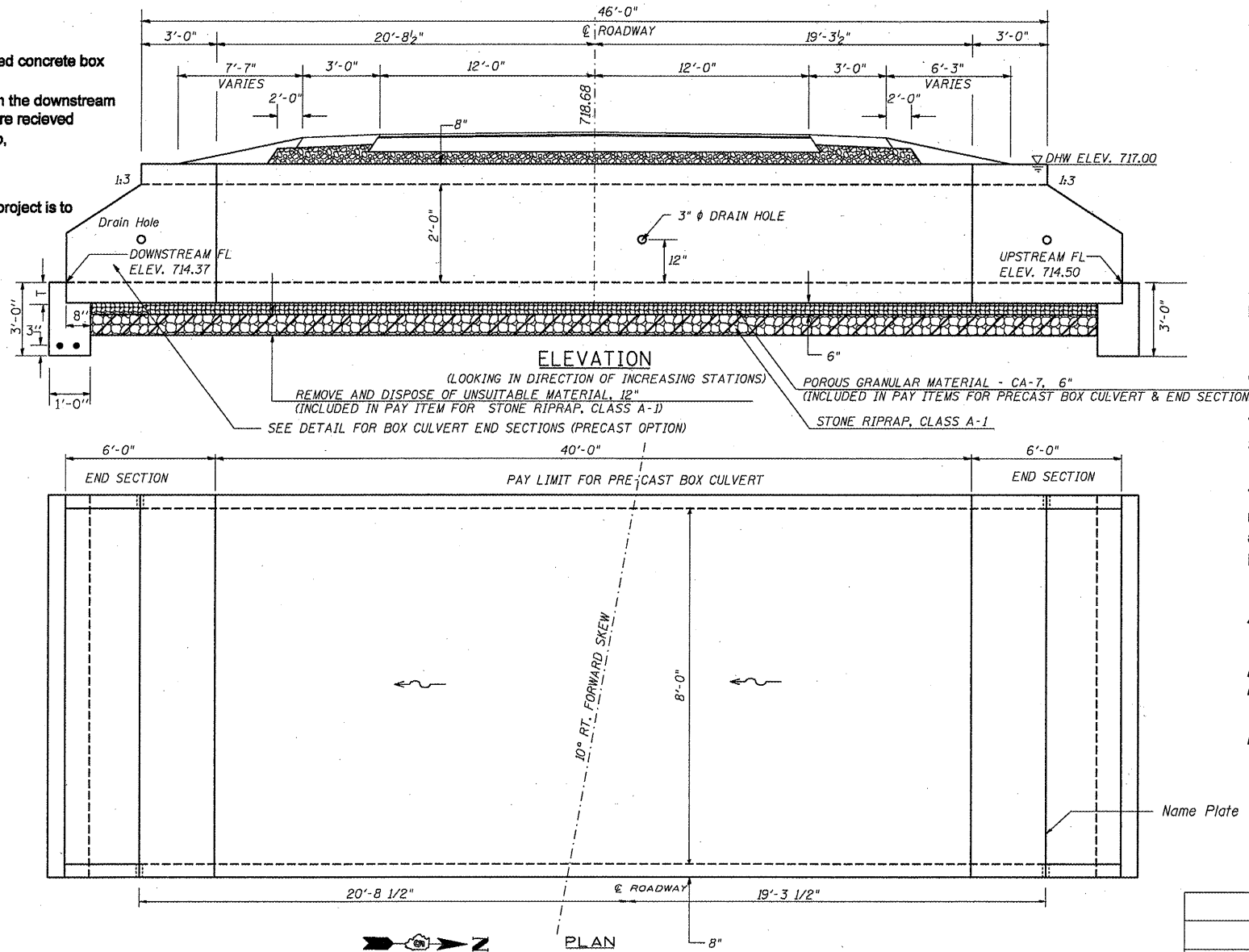
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	Champaign	29	13
CONTRACT NO. 70701			ILLINOIS FED. AID PROJECT	

BENCHMARK ELEV. = 717.612 Chiseled square on the southeast corner of the south headwall of S.N. 010-8115.

EXISTING STRUCTURE: S.N. 010-8115, a single cell 6' x 2' reinforced concrete box culvert, constructed in 1924 at Station 338+71 as part of Section 4. In 1986 the structure was modified with a skewed extension added on the downstream end as part of section 5(W,RS-1) & 4(W-1, RS-2). In 2009 the structure recieved posting mitigation repairs, consisting of an 8" reinforced concrete slab, with dimensions of 9' x 24'.

The existing structure is to be completely removed and replaced. The project is to be completed under stage construction. No Salvage.



General Notes

End sections will be paid for at the contract unit price per each for BOX CULVERT END SECTION, CULVERT NO. 1, as outlined in Section 540 of the Standard Specifications.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60. The Porous Granular Material CA-7 6", required per article 540.06 of the standard specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.

Class SI concrete shall be used throughout.

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.

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

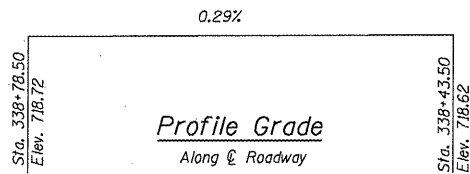
The joints between precast box sections shall be sealed, and all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the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

ALL DIMENSIONS ARE IN FEET (') - INCHES (") UNLESS OTHERWISE NOTED.

ROADWAY DIMENSIONS MEASURED PERPENDICULAR TO ROADWAY. BOX CULVERT DIMENSIONS MEASURED ALONG 10 RT. FORWARD SKEW.

DRAWINGS ARE NOT TO SCALE.

The design of the box section shall be in accordance with M273 Table 1 for an 8x4 box except As1 shall extend into the top slab a dimension equal to 24" + 2 longitudinal wire spacings.



STATION 338+61.00
 BUILT 2010 BY
 STATE OF ILLINOIS
 F.A.S. RTE. 1514 SEC. 4CR
 LOADING HS20
 STRUCTURE NO. 010-8135

NAME PLATE
 See Std. 515001

INDEX OF SHEETS

1. General Plan and Elevation
2. Box Culvert End Section (Precast Option) Details
3. Porous Granular Embankment Detail

DESIGN SPECIFICATIONS
 2002 AASHTO

LOADING HS20-44
 Allow 50#/sq.ft. for future wearing surface

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (reinforcement)
 fy = 65,000 psi (welded wire fabric)

PRECAST UNITS
 f'c = 5,000 psi
 fy = 65,000 psi (welded wire fabric)

Proposed Low Grade Elev. = 717.99 @ Sta. 336+46		Existing Low Grade Elev. = 717.99 @ Sta. 336+46							
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	46	12	14				716.5	716.3
Design	50	76	12	16				717.5	717.0
Base	100	89	12	16				overtopped	717.3
Overtopping									
Max. Calc.	500	122	12	16				overtopped	overtopped

10 YEAR VELOCITY THROUGH EXISTING BRIDGE = 8.88 ft/s 10 YEAR VELOCITY THROUGH PROPOSED BRIDGE = 3.83 ft/s
 * Information provided using the USGS method (2004 equations)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Cut-Off Wall	N. Cut-Off Wall
	710.95	711.50

All - Time H.W.E. & Date:
 12/22/1990 - High water reported by IDOT Maintenance.
 Approximately 3' deep at centerline.
 Reason: Floodwaters have no positive outfall in immediate area, ponding in adjacent fields.

Name Plate

BILL OF MATERIAL

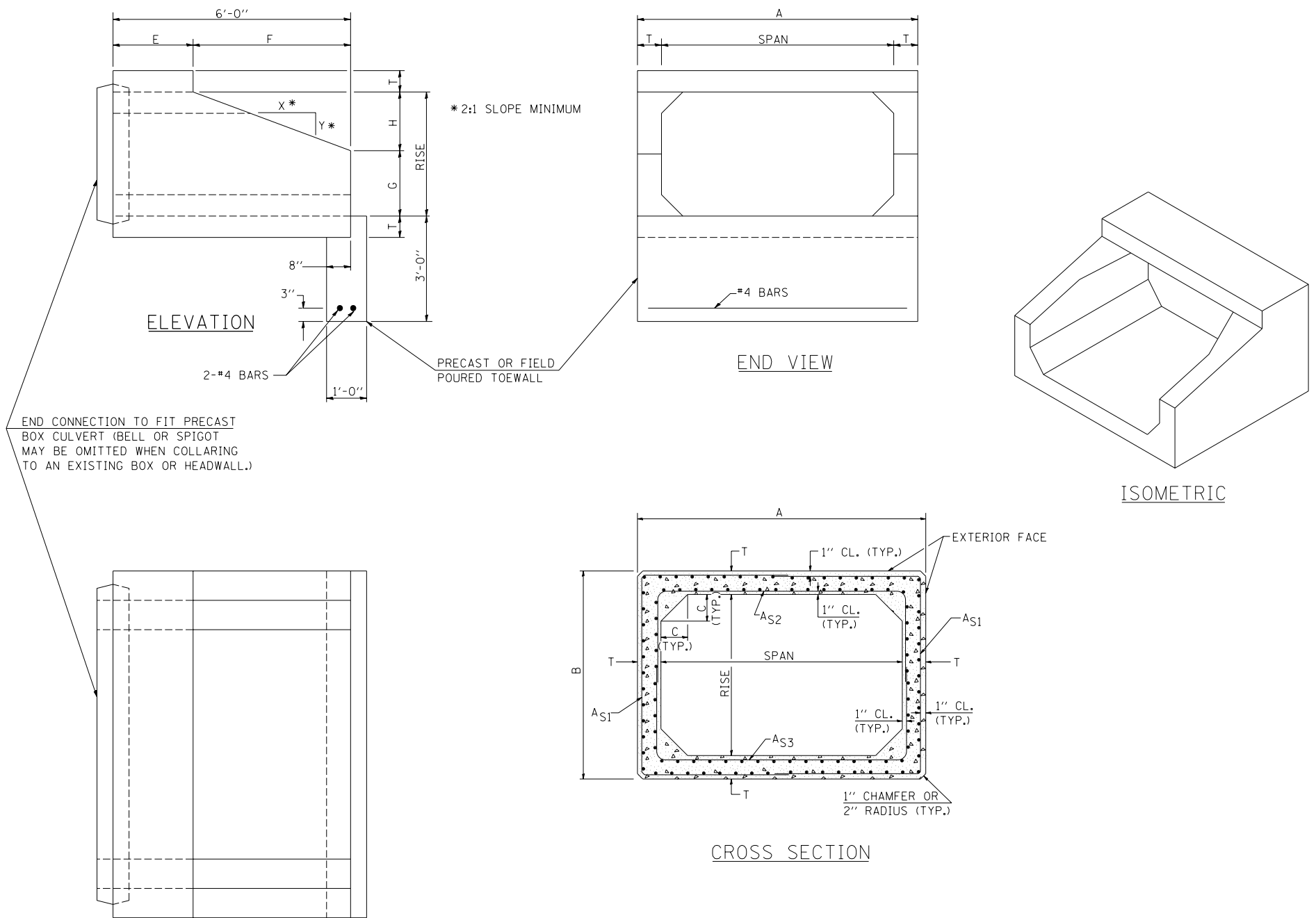
Item	Unit	Total
Removal of Existing Structures	Each	1.0
Precast Concrete Box Culverts 8' x 2' (M273)	Foot	40.0
Box Culvert End Section, Culvert No. 1	Each	2.0
Name Plates	Each	1.0
Porous Granular Embankment	Cu Yd	140.0
Stone RIPRAP Class A-1	Tons	55.0

GENERAL PLAN AND ELEVATION
SINGLE 8' x 2' PRECAST BOX CULVERT
F.A.S. ROUTE 1514 - SECTION 4CR
CHAMPAIGN COUNTY
STATION 338+61.00, S.N. 010-8135

FILE NAME =	USER NAME = bleckrt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION	F.A.S. RTE. 1514	SECTION 4CR	COUNTY CHAMPAIGN	TOTAL SHEETS 29	SHEET NO. 14		
CONTRACT NO. 70701	PLOT SCALE = 3/8" = 1' / IN.	CHECKED -	REVISED -			SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
	PLOT DATE = 5/5/2010	DATE -	REVISED -									

DIMENSIONS **

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



END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL.)

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

GENERAL NOTES
SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 1042.03(b) OF THE STANDARD SPECIFICATIONS.
MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH SECTION 1055 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
THE TERMS AS1, AS2, & AS3 DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M259. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO AASHTO M55-81.

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

STD. 9-50 (FROM DISTRICT 9)

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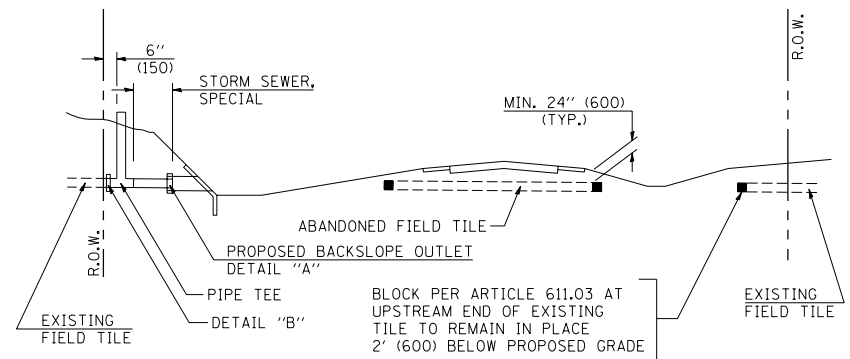
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT END SECTION
(PRECAST OPTION)**

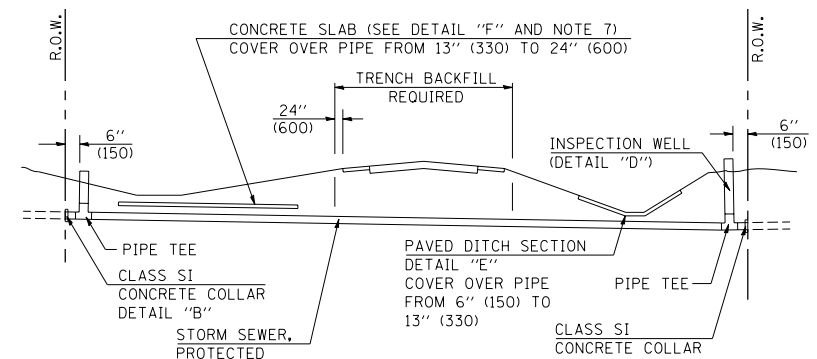
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DISTRICT 5 DETAIL NO. 54001AAA

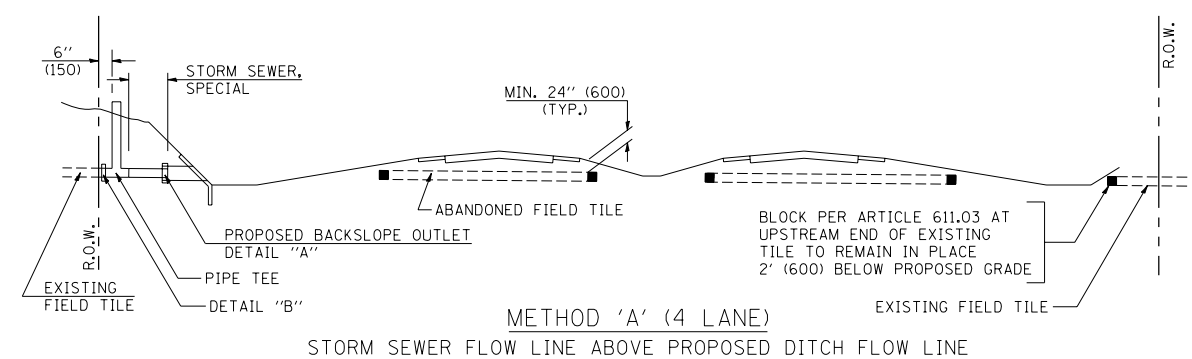
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1514	4CR	CHAMPAIGN	29	15
			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				



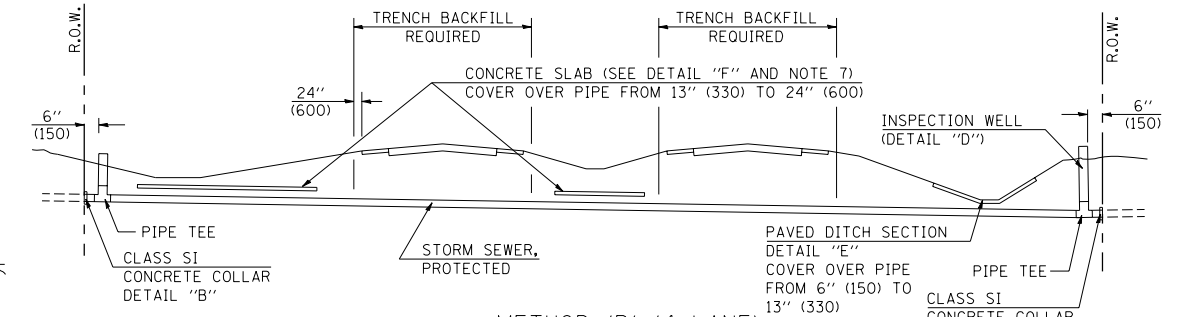
METHOD 'A' (2 LANE)
STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



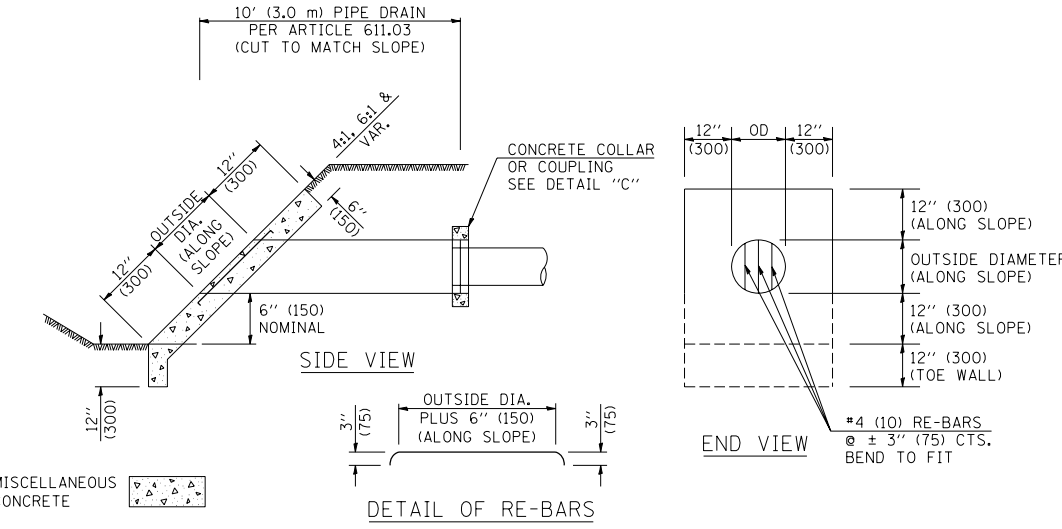
METHOD 'B' (2 LANE)
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



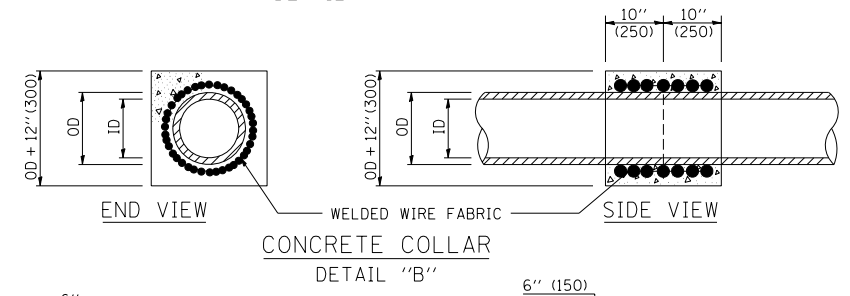
METHOD 'A' (4 LANE)
STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



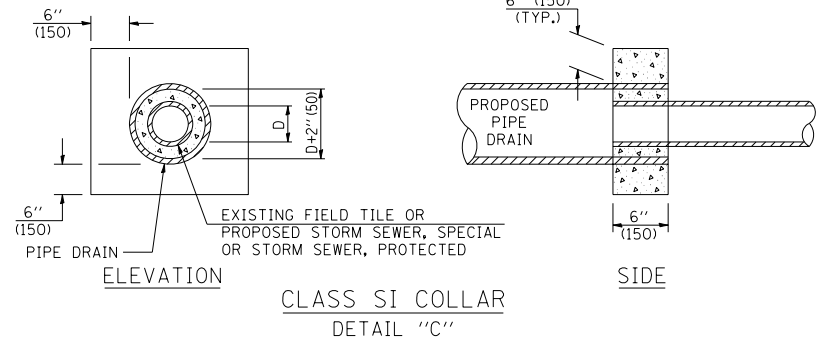
METHOD 'B' (4 LANE)
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



HEADWALL FOR BACKSLOPE OUTLET
DETAIL "A"



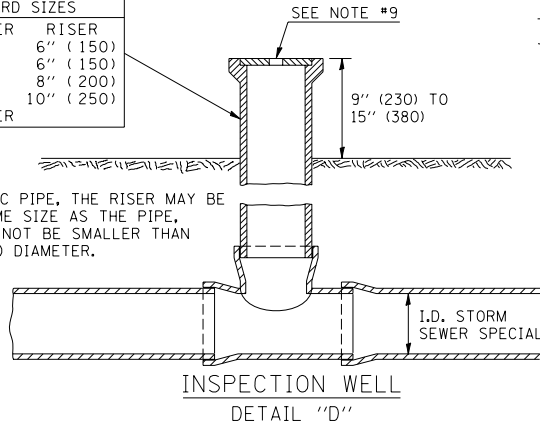
CONCRETE COLLAR
DETAIL "B"



CLASS SI COLLAR
DETAIL "C"

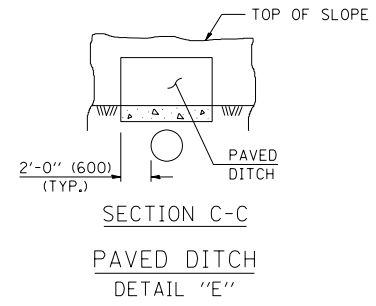
CONCRETE PIPE STANDARD SIZES	
STORM SEWER RISER	
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

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

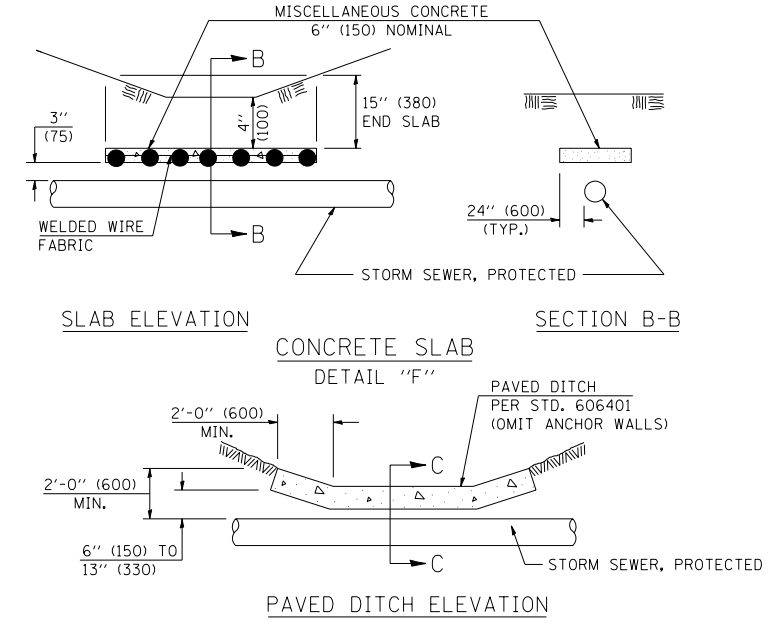


GENERAL NOTES

- 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.



SECTION C-C
PAVED DITCH
DETAIL "E"



SLAB ELEVATION
SECTION B-B
CONCRETE SLAB
DETAIL "F"
PAVED DITCH ELEVATION

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

DISTRICT 5 DETAIL NO. 61101011A

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		CHECKED -	REVISED -
		DATE -	REVISED -

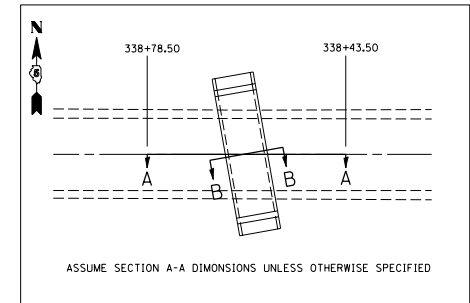
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

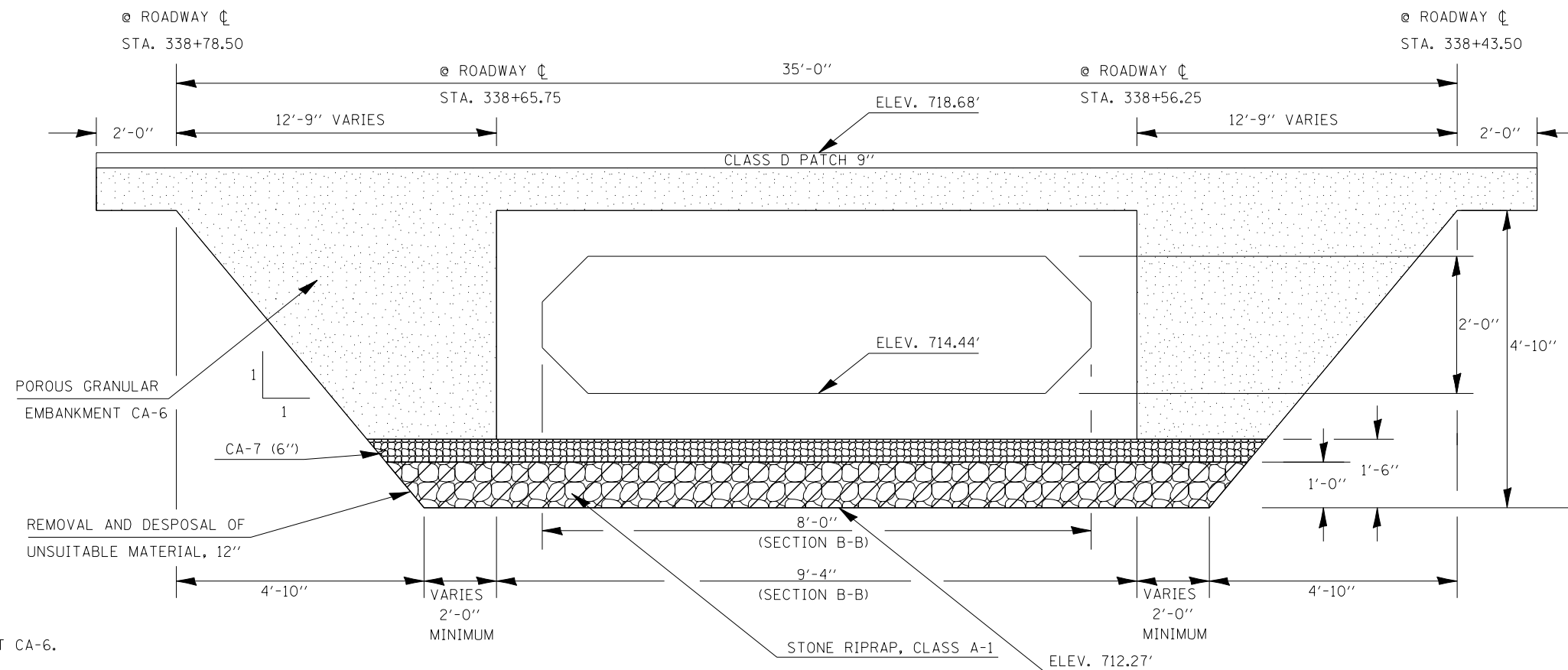
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	16
CONTRACT NO. 70701				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL OF POROUS GRANULAR EMBANKMENT PAY LIMITS

PROPOSED STRUCTURE 010-8135 STA. 338+61.00



SECTION A-A



- POROUS GRANULAR EMBANKMENT CA-6.
- POROUS GRANULAR MATERIAL CA-7, 6". (INCLUDED IN PAY ITEMS FOR PCBC AND END SECTIONS)
- STONE RIP RAP, CLASS A-1.
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, 12". (INCLUDED IN PAY ITEM FOR STONE RIPRAP, CLASS A-1).

GENERAL NOTES

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

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

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

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

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

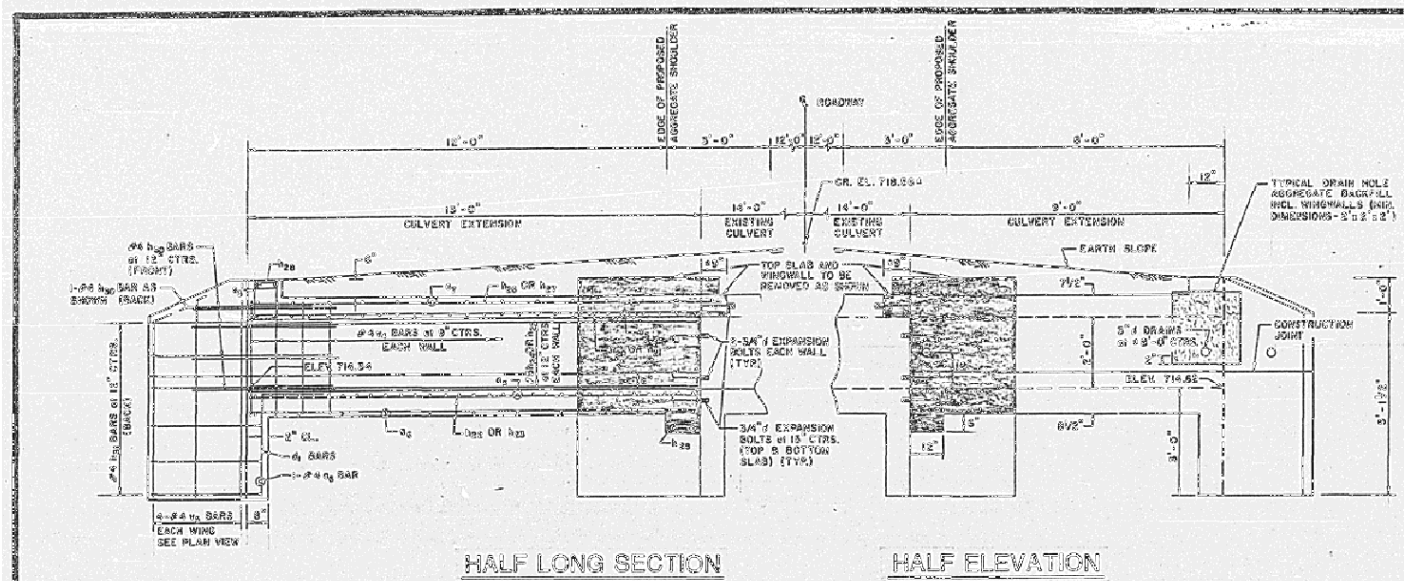
BILL OF MATERIAL

ITEM	UNIT	TOTAL
POROUS GRANULAR EMBANKMENT	CU YD	140.0
STONE RIPRAP, CLASS A1	TON	55.0

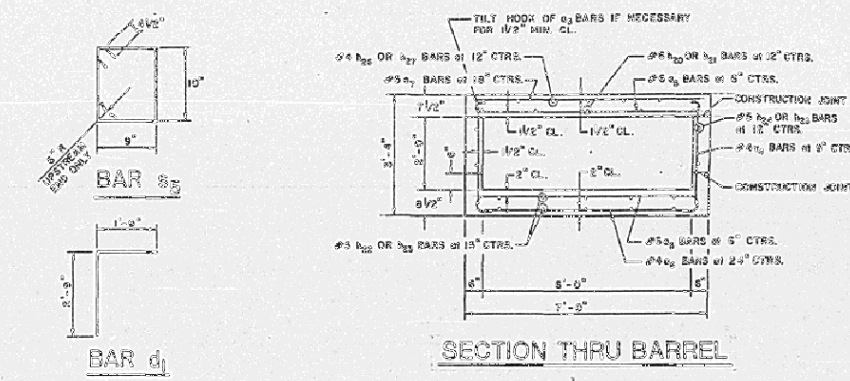
AS-BUILT PLANS – FOR INFORMATION ONLY

DETAIL OF EXISTING REINFORCED BOX CULVERT AND EXTENSION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514 & 532	4 (W-1,RS-2)	CHAMPAIGN	48	32

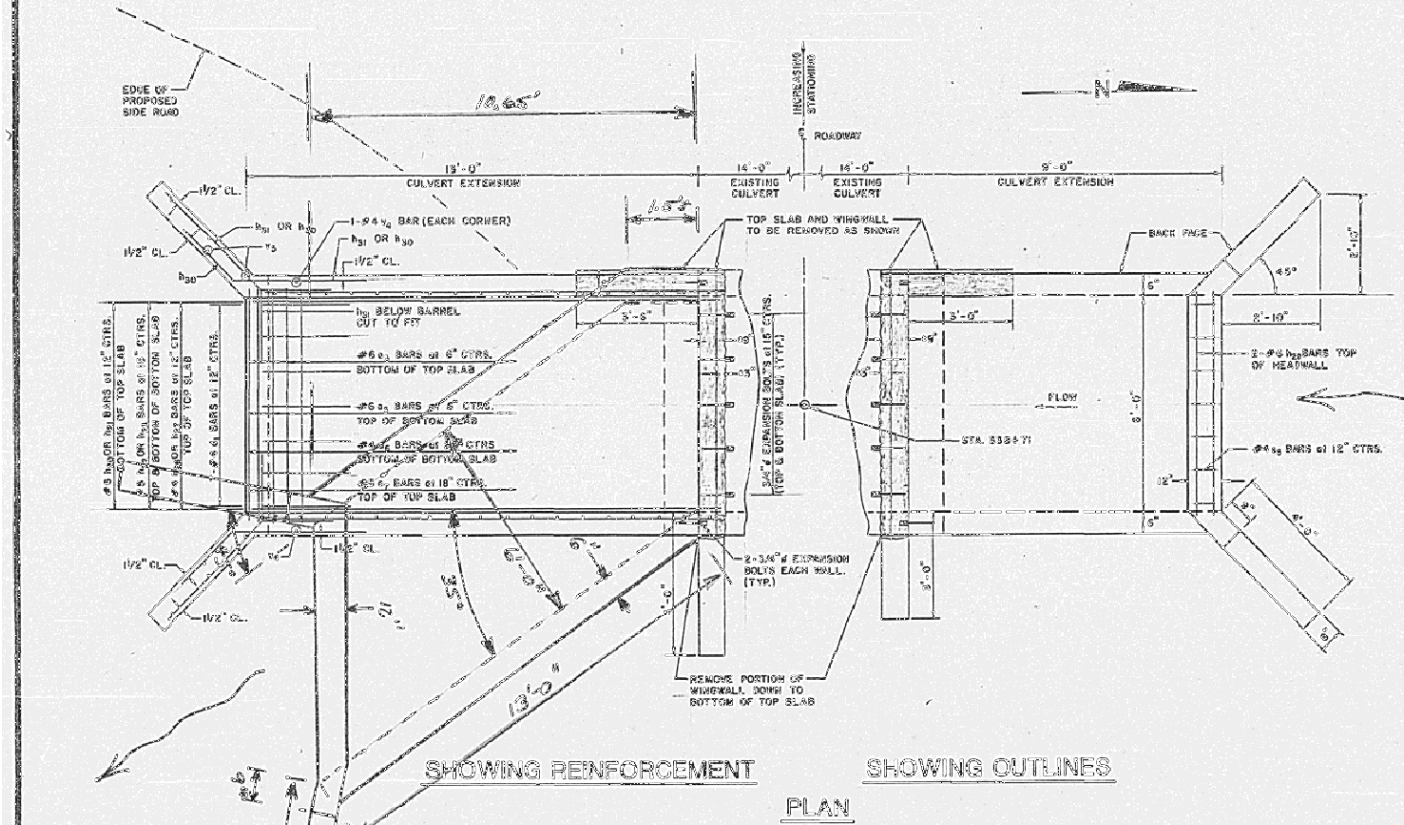


HALF LONG SECTION HALF ELEVATION



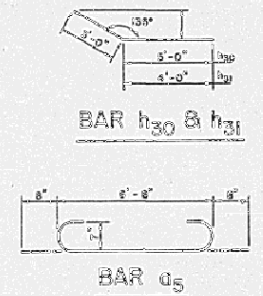
SECTION THRU BARREL

SECTION THRU HEADWALL
UPSTREAM END ONLY



SHOWING REINFORCEMENT SHOWING OUTLINES

PLAN



DESIGN STRESSES

$f_c = 60,000$ P.S.I.
 $f_s = 3,500$ P.S.I.

LOADING HS 20-44 & ALT.

NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT.
AT LEAST SIX FEET OF BARREL SHALL BE POURED MONOLITHICALLY WITH WINDWALLS.
EXPOSED REBARS SHALL BE BEVELLED 30°.
FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-51 OR M-33 GRADE 60.
ALL REINFORCEMENT BARS EXPOSED DURING REMOVAL OF EXISTING HEADWALL SHALL BE STRAIGHTENED AND THOROUGHLY CLEANED FOR RE-USE IN NEW SLAB.

SKAWAD EXTENSION REQUIRED TO MAINT EXISTING DRAINAGE DITCH. RE-BAR AS SHOWN IN BILL OF MATERIAL FILED MODIFIED FOR SKAWAD EXTENSION.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
#1	92	#6	6'-0"
#2	14	#4	6'-3"
#3	17	#5	6'-3"
#4	14	#6	4'-6"
#5	7	#6	15'-5"
#6	7	#6	9'-3"
#7	20	#5	12'-5"
#8	20	#5	9'-3"
#9	4	#5	12'-0"
#10	4	#5	8'-3"
#11	7	#4	13'-5"
#12	7	#4	8'-3"
#13	8	#6	6'-3"
#14	20	#4	6'-0"
#15	24	#4	7'-0"
#16	14	#4	5'-11"
#17	6	#6	3'-0"
#18	16	#4	3'-6"
CONCRETE REMOVAL			CU. YD. 0.8
EXPANSION BOLTS 3/4" INCH EACH			28
CLASS X CONCRETE BOX CHAMBERS			SQ. YD. 13.0
REINFORCEMENT BARS			LB. 27.8

BOX CULVERT EXTENSION – 6' x 2'

STA. 338 + 71

ILLINOIS RTE. 10

JOB NO. 0401

FILE NAME =
USER NAME = blackrt
DRAWN -
PLOT SCALE = 40.0000 ' / IN.
PLOT DATE = 3/30/2010

DESIGNED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

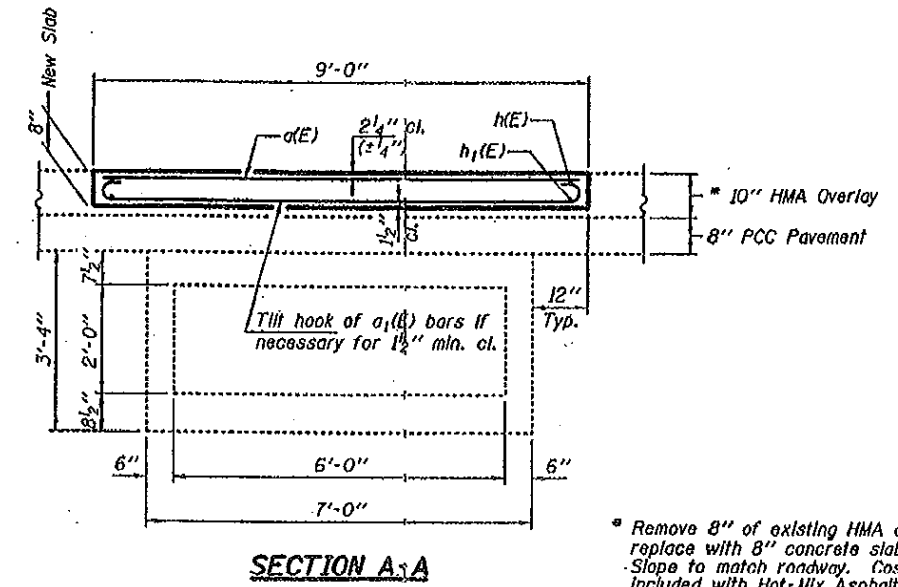
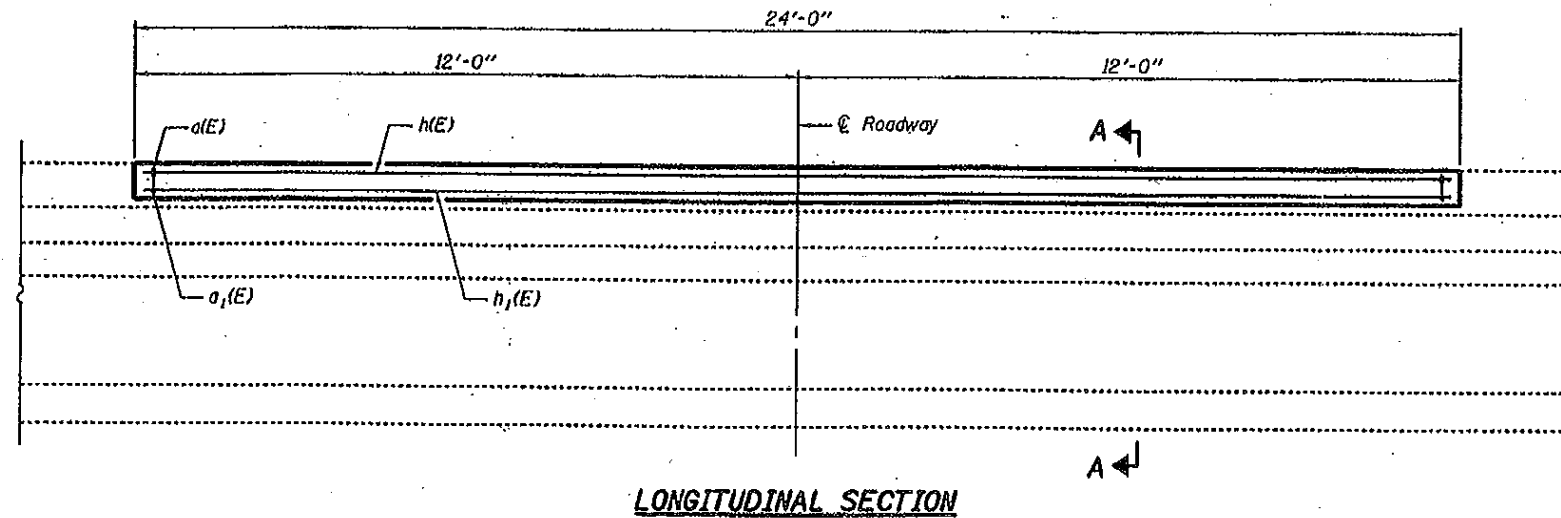
DETAIL OF EXISTING CONCRETE SLAB

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

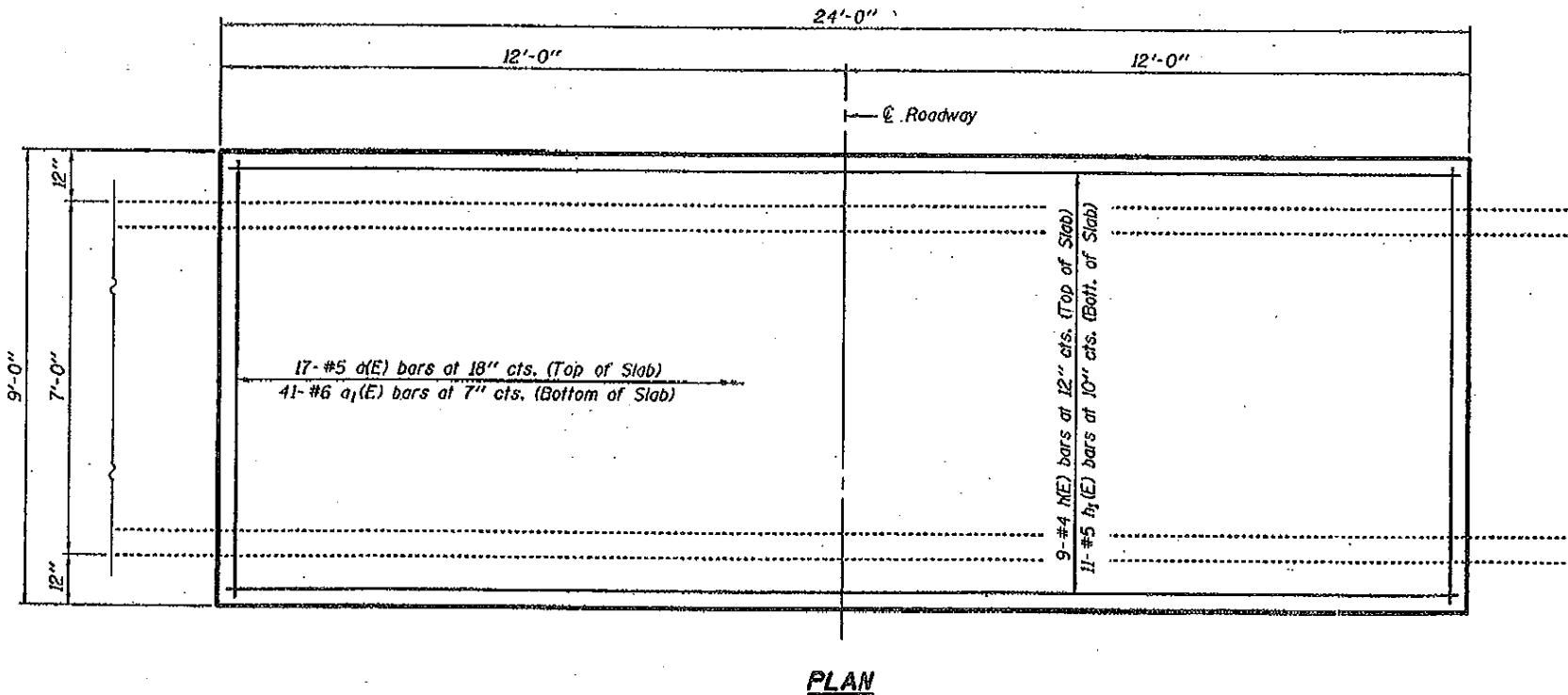
F.A.S. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	18
CONTRACT NO. 70701				
ILLINOIS FED. AID PROJECT				

AS-BUILT PLANS – FOR INFORMATION ONLY

DETAIL OF EXISTING CONCRETE SLAB INSTALLED FOR POSTING MITIGATION



* Remove 8" of existing HMA overlay and replace with 8" concrete slab as shown. Slope to match roadway. Cost of removal included with Hot-Mix Asphalt Surface Removal.



GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Reinforcement bars designated (E) shall be epoxy coated.

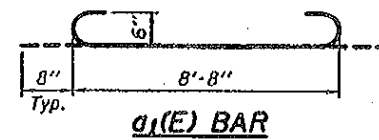
The deck surface shall have its final finish lined according to Article 420.09(a)(1) of the Standard Specifications. Cost included with Concrete Superstructures.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	17	#5	8'-8"	—	
a1(E)	41	#6	10'-0"	—	
h(E)	9	#4	23'-8"	—	
h1(E)	11	#5	23'-8"	—	
Hot-Mix Asphalt Surface Removal				Sq. Yds.	24.0
Reinforcement Bars, Epoxy Coated				Pound	1180
Concrete Superstructure				Cu. Yds.	5.4

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

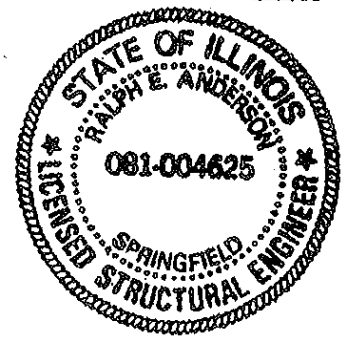


SLAB DETAILS SN 010-8115

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1 SHEETS	1514	-	CHAMPAIGN	-	-
CONTRACT NO.					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DESIGNED: *V. H. Voliz*
 CHECKED: *R. M. Babin*
 DRAWN: *Kyle M. Steffen*
 CHECKED: *V. H. Voliz*

FEBRUARY 4, 2009
 EXAMINED: *R. E. Anderson*
 PASSED: *R. E. Anderson*



Expires: November 30, 2010

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

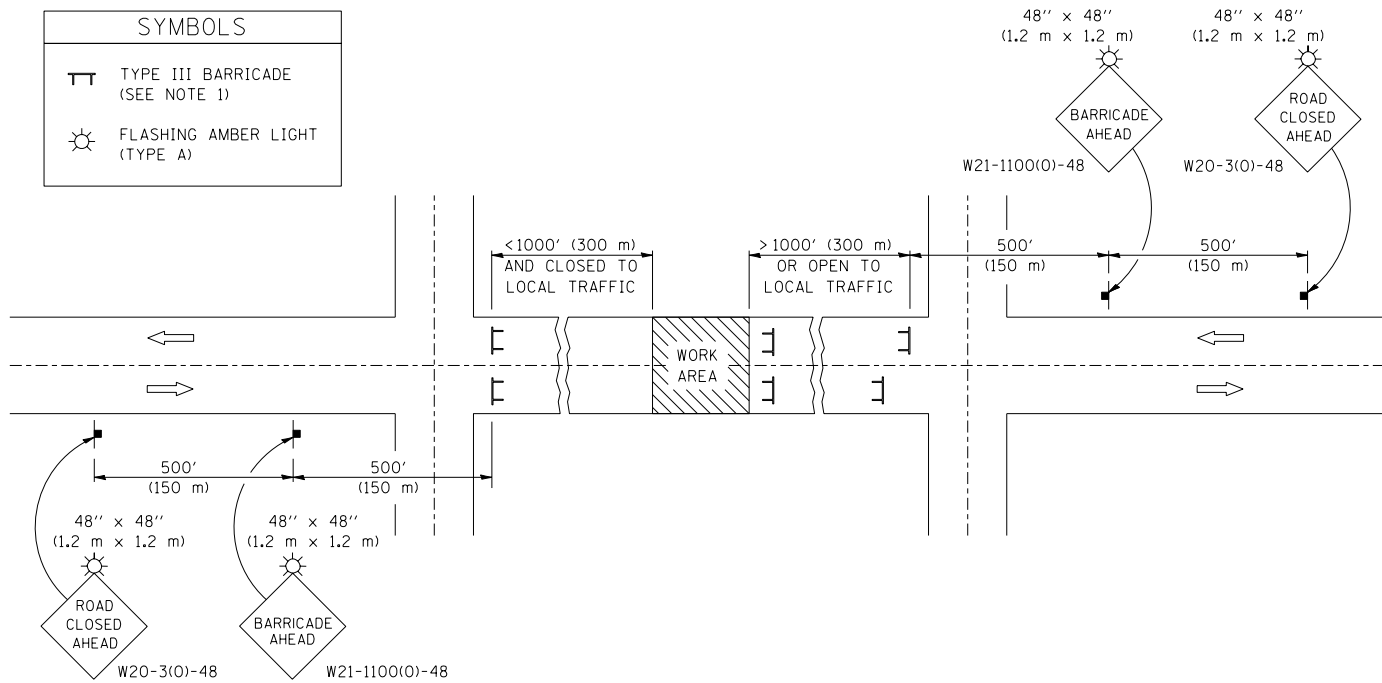
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAIL OF EXISTING CONCRETE SLAB

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

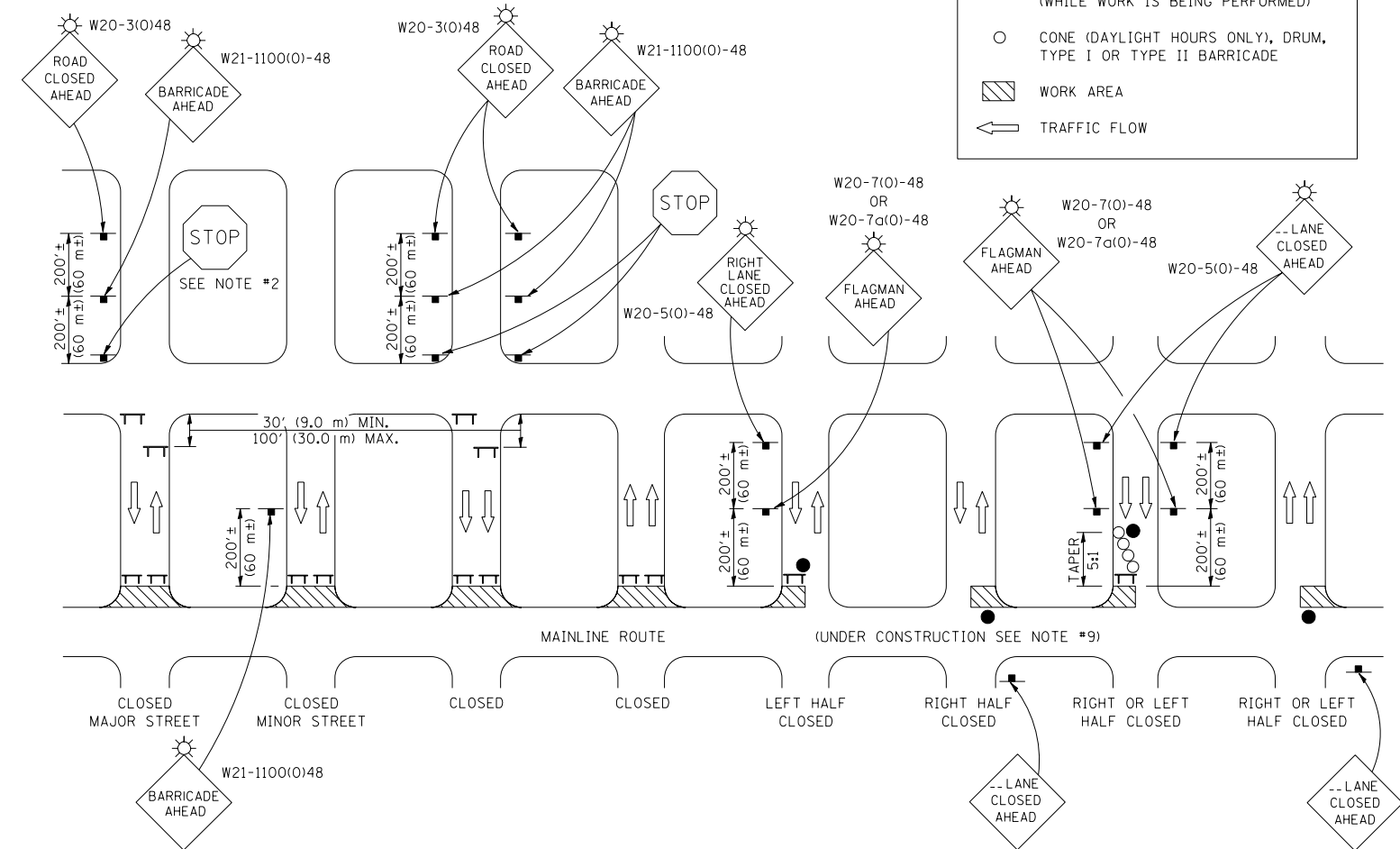
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

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

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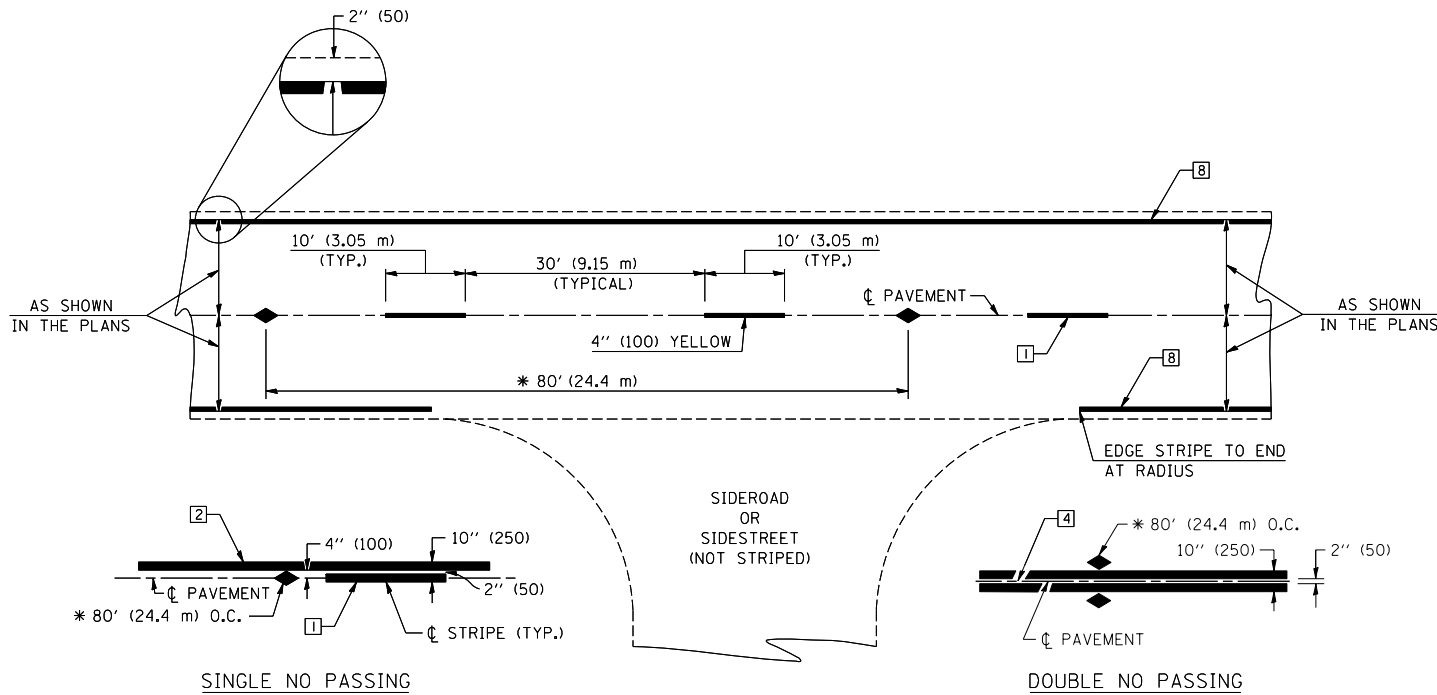
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES
(ROAD & SIDEROAD/STREET CLOSURES)

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

DISTRICT 5 DETAIL NO. 7020000

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	20
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 70701	



* 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

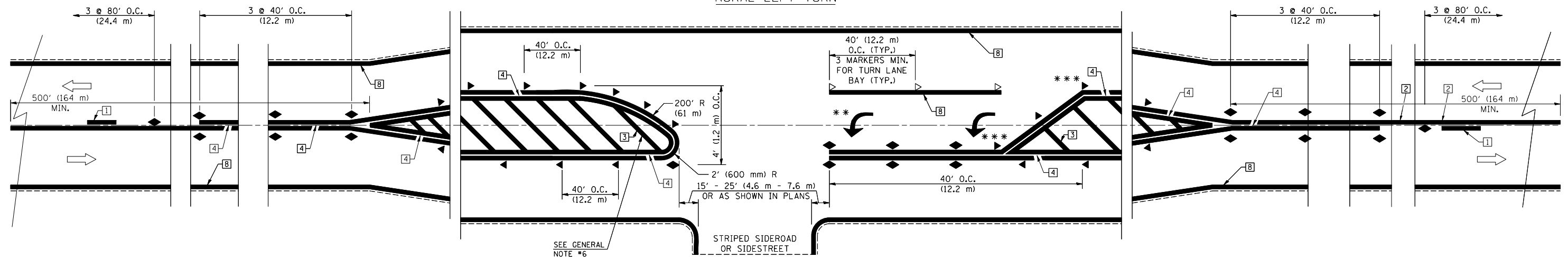
TYPICAL PAVEMENT MARKING LEGEND

- 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.

FILE NAME =	USER NAME = blackrt	DESIGNED -	REVISED - 11/06
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	PLOT DATE = 3/30/2010	DATE -	REVISED -

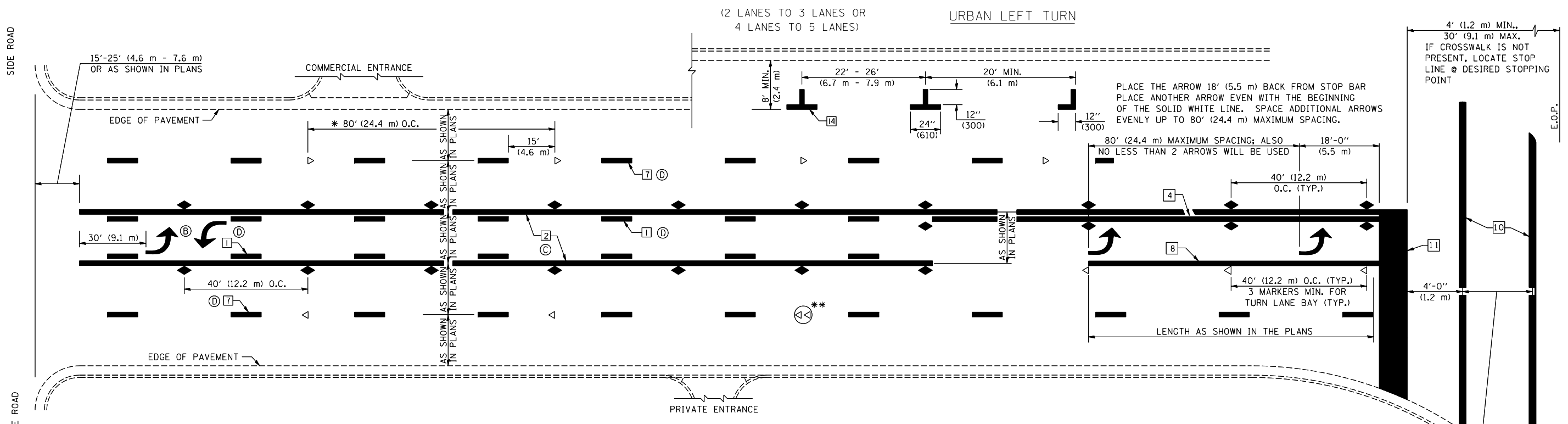
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

DISTRICT 5 DETAIL NO. 7800AAA

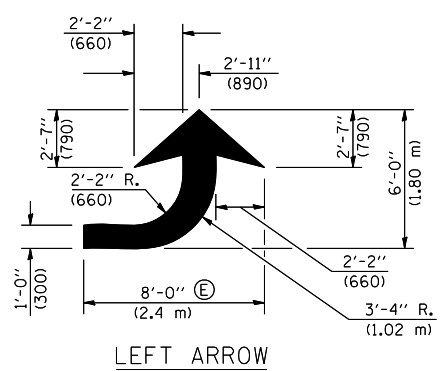
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	21
CONTRACT NO. 70701				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



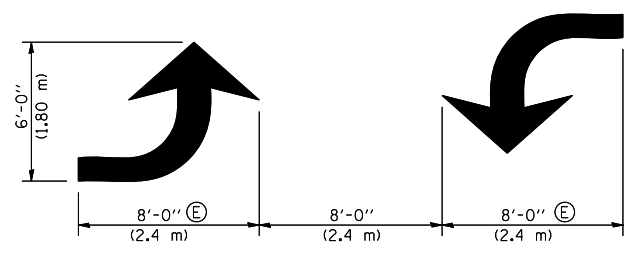
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

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

- GENERAL NOTES:**
- (B) 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.
 - (C) 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.
 - (D) 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.
 - (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

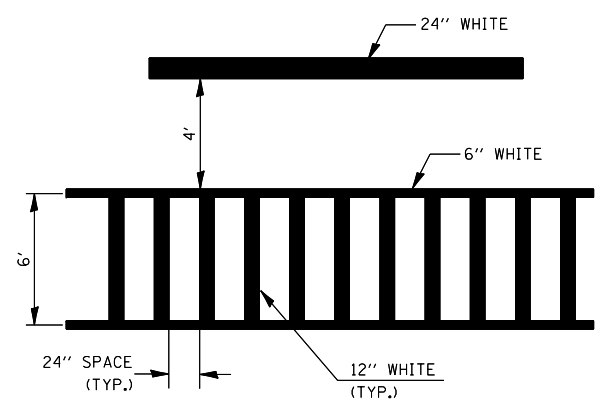


LEFT ARROW
 REVERSE FOR RIGHT ARROW
 AREA = 15.6 SQ. FT. (1.47 m²)
 (WHITE)

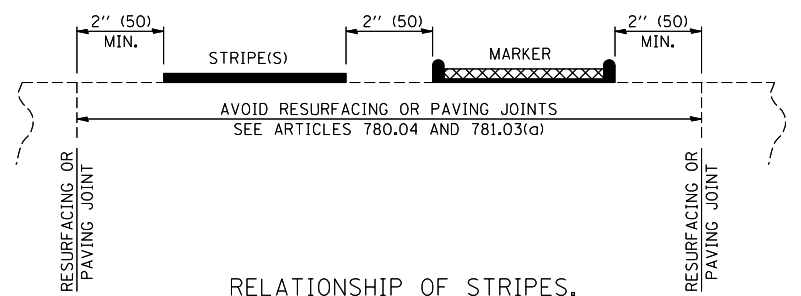


TYPICAL DOUBLE TURN ARROWS (WHITE)

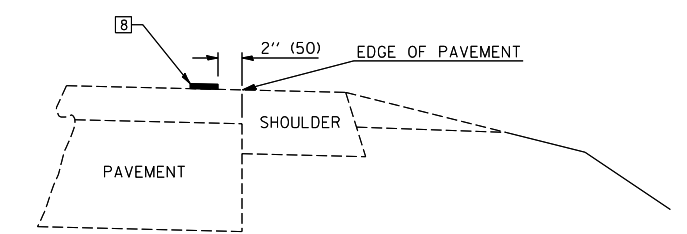
BLOOMINGTON-NORMAL CITY LIMITS ONLY



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

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

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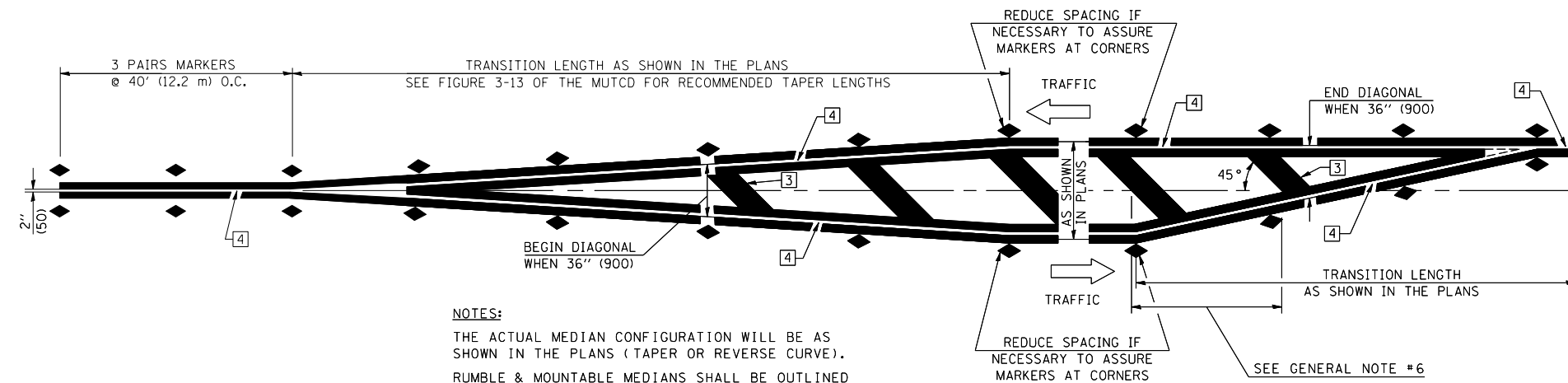
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

DISTRICT 5 DETAIL NO. 7800AAA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70701	

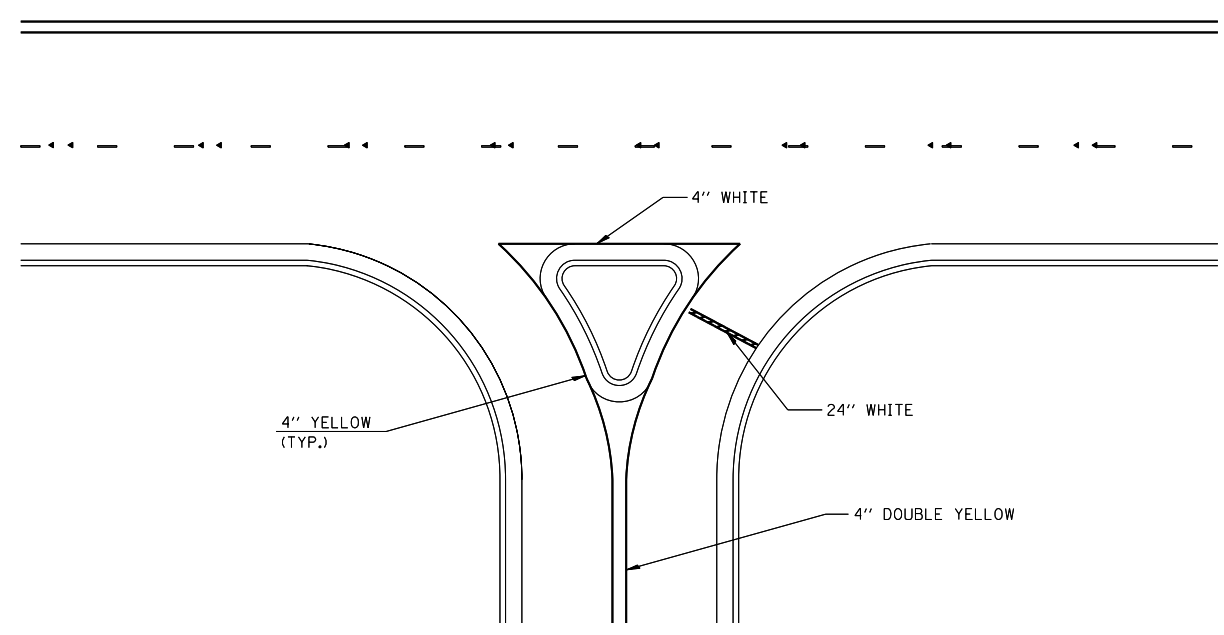


NOTES:
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

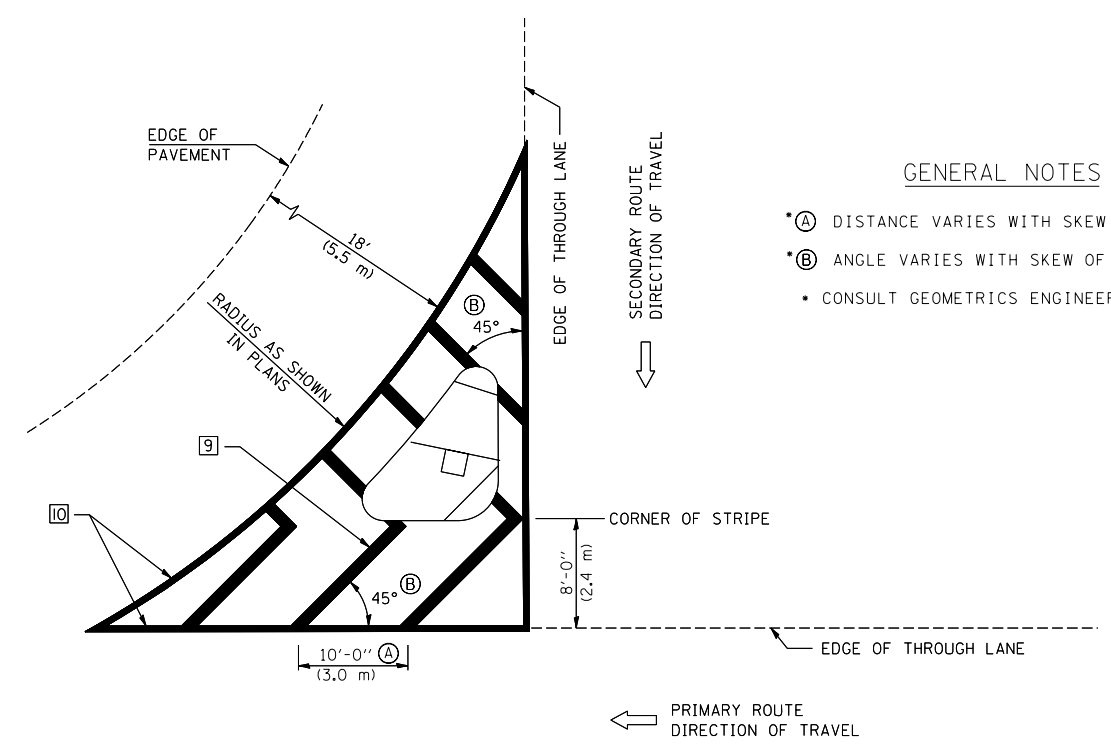
TYPICAL MEDIAN TRANSITIONS

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



ISLAND

GENERAL NOTES

- (A) DISTANCE VARIES WITH SKEW OF INTERSECTION.
- (B) ANGLE VARIES WITH SKEW OF INTERSECTION.
- CONSULT GEOMETRICS ENGINEER

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

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

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

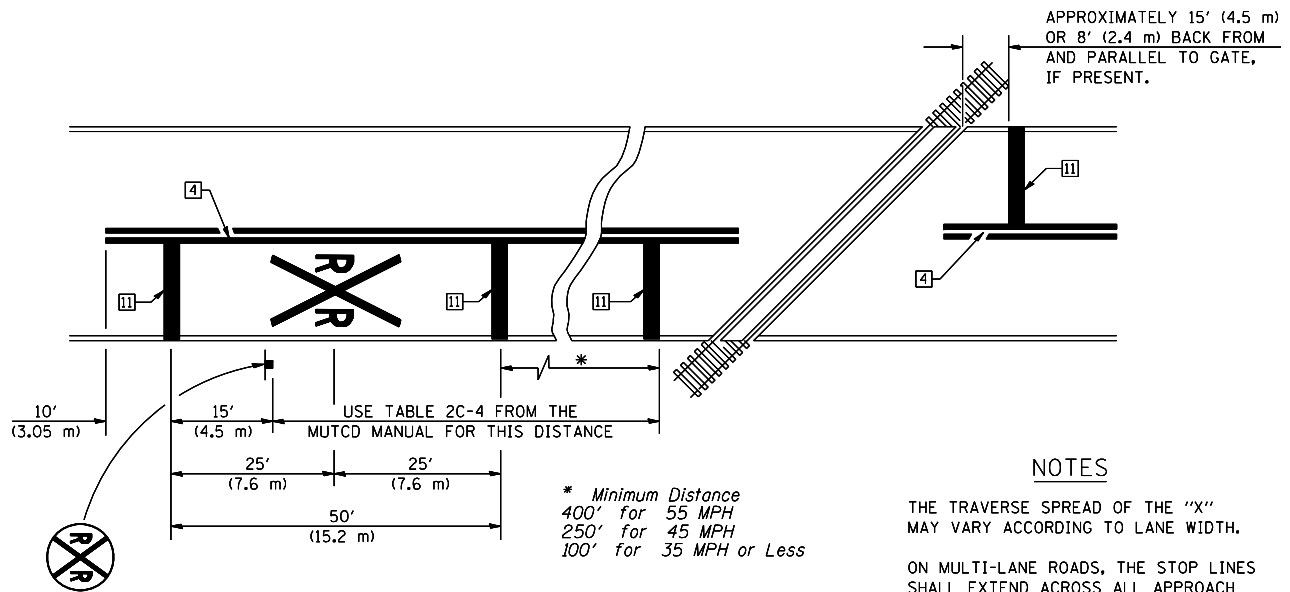
SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

DISTRICT 5 DETAIL NO. 7800AAA

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70701	

RAILROAD CROSSING WITH INTERCONNECT ONLY

RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



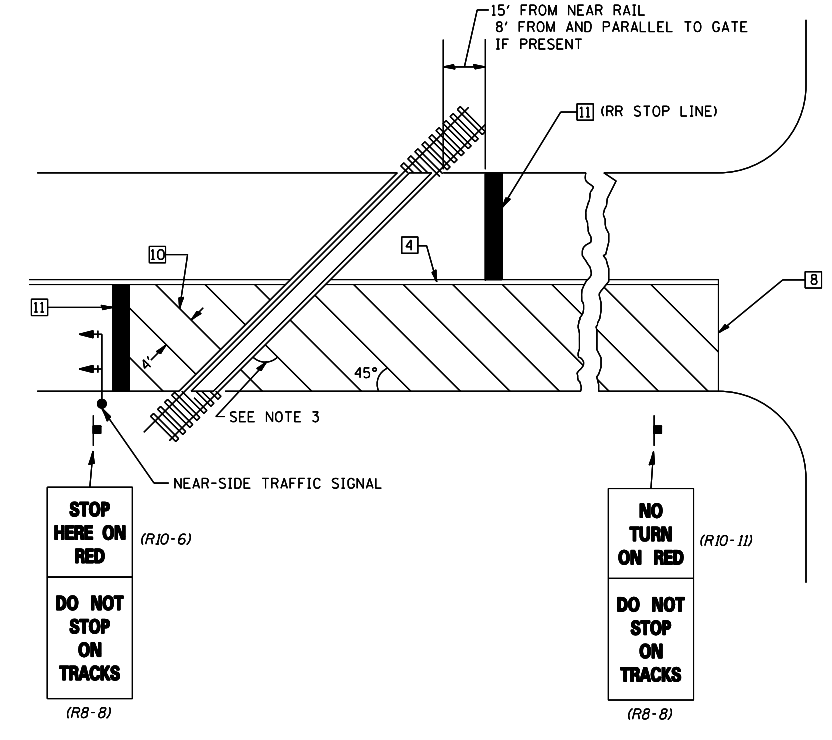
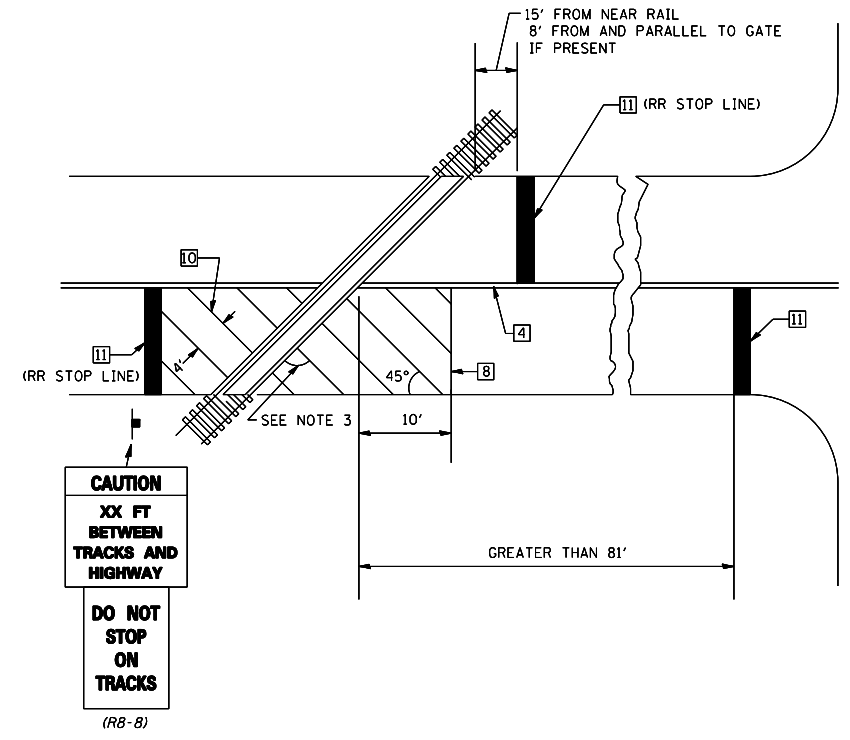
PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

NOTES

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

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

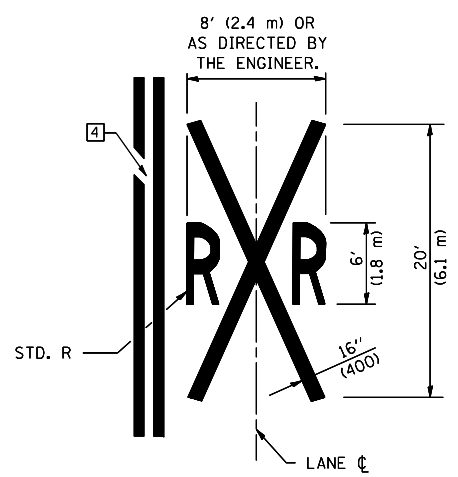
WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

GENERAL NOTES

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



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

DISTRICT 5 DETAIL NO. 7800AAAA

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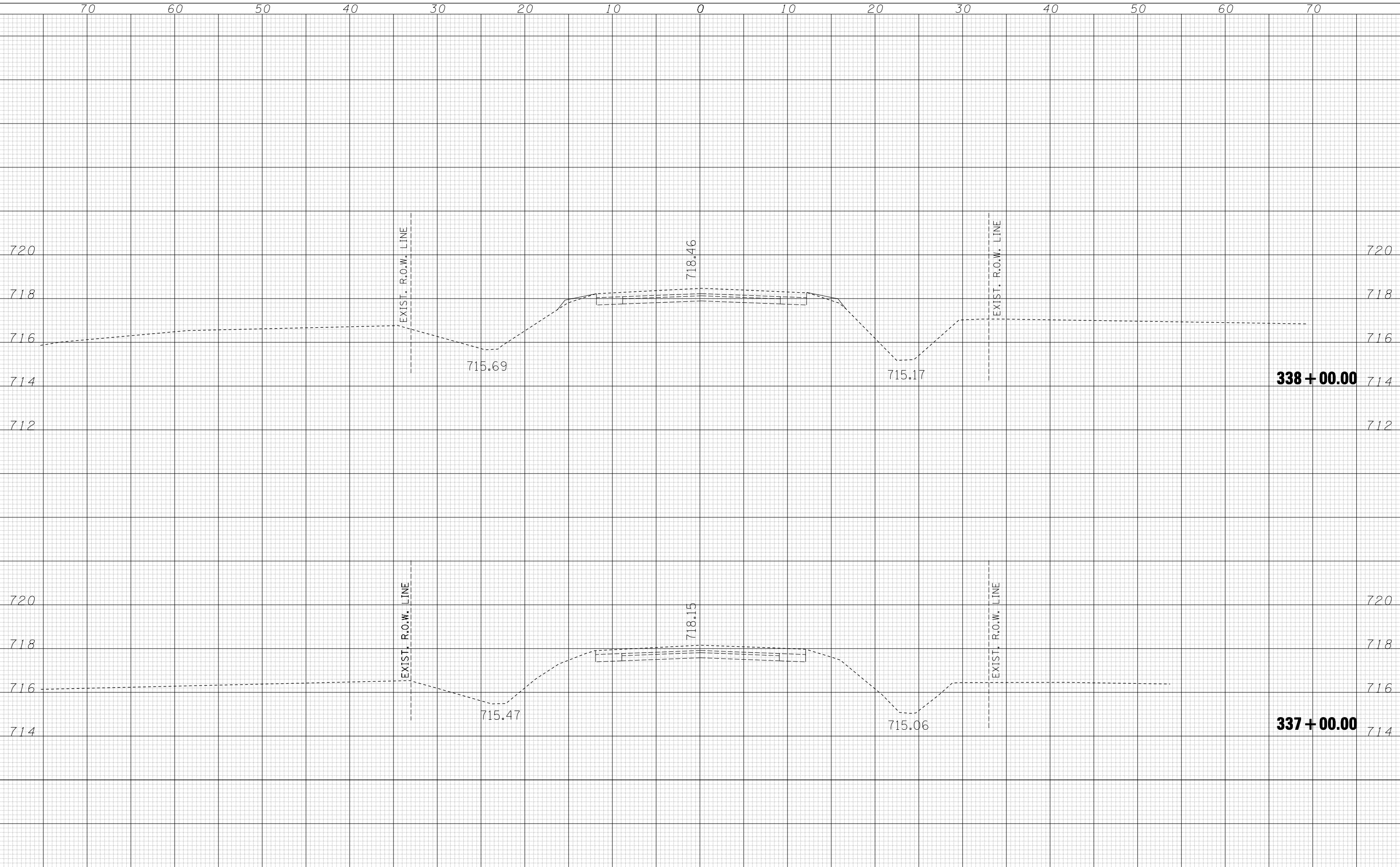
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	CHAMPAIGN	29	24
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 70701	

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



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

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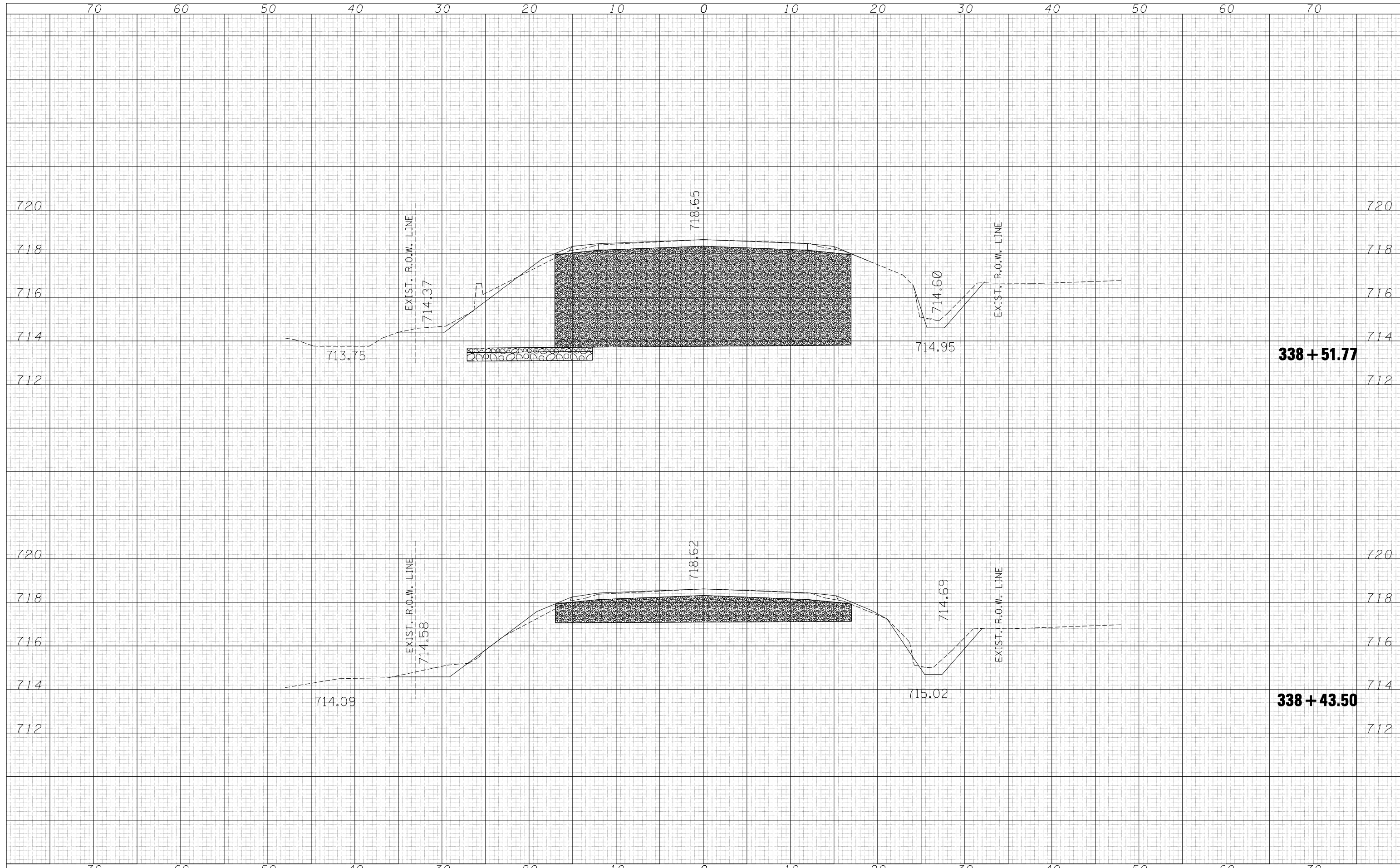
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. 337+00.00 TO STA. 338+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	Champaign	29	25
			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE



338 + 51.77

338 + 43.50

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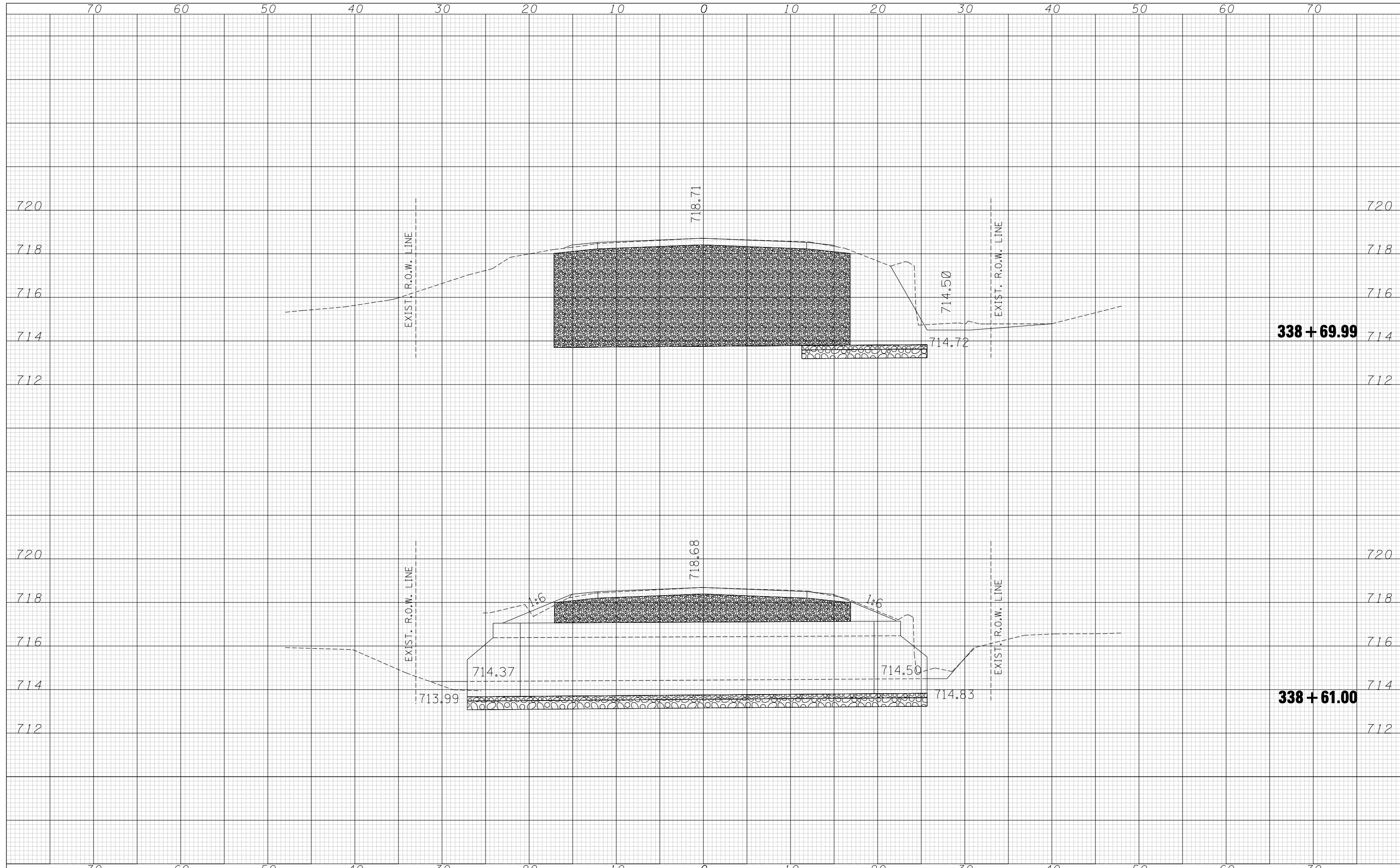
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. 338+43.50 TO STA. 338+51.77

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

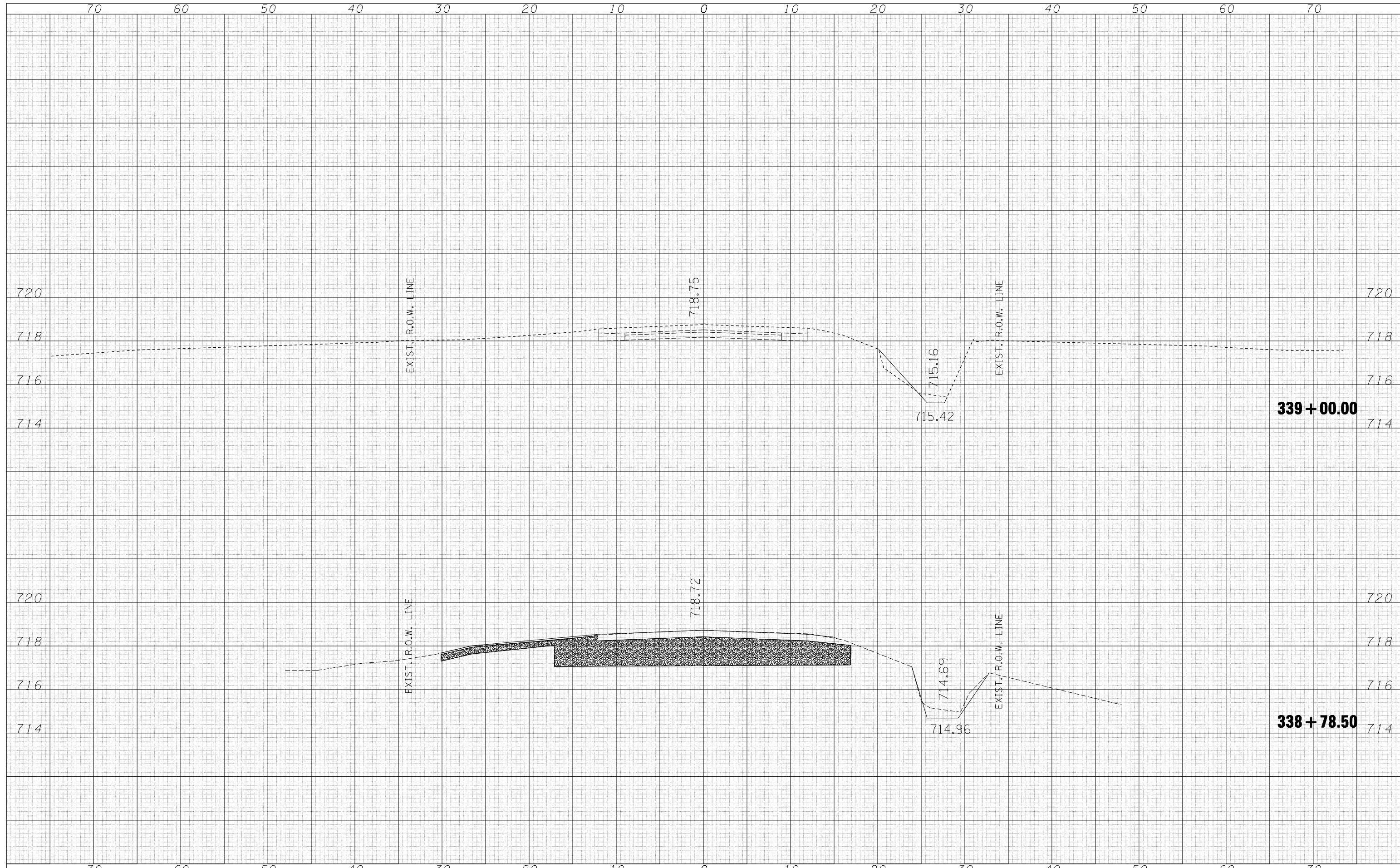
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ORIGINAL SURVEY	
NOTE BOOK	
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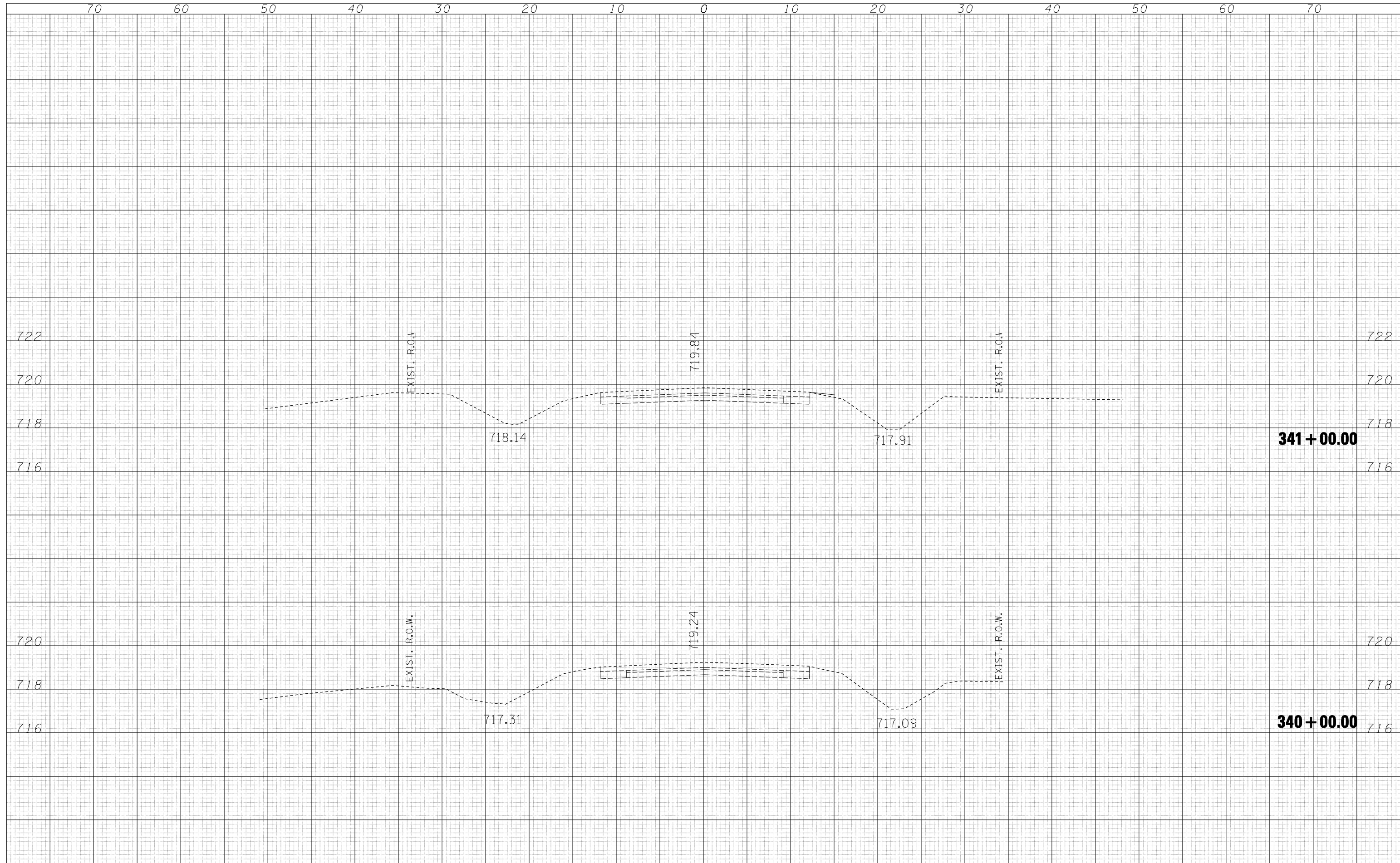
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF	SHEETS	STA. 338+78.50	TO STA. 339+00.00
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				

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BY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
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ORIGINAL SURVEY	
NOTE BOOK	
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PLOT DATE = 3/30/2010	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. 340+00.00 TO STA. 341+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1514	4CR	Champaign	29	29
			CONTRACT NO. 70701	
ILLINOIS FED. AID PROJECT				