

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 116 (IL130)  
SECTION (7BR,7BY)B-1  
PROJECT ACF-0116 (061)  
BRIDGE REPLACEMENTS  
EDWARDS COUNTY

C-97-032-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT (2013) = 3450

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	1
ILLINOIS			CONTRACT NO. 74354	

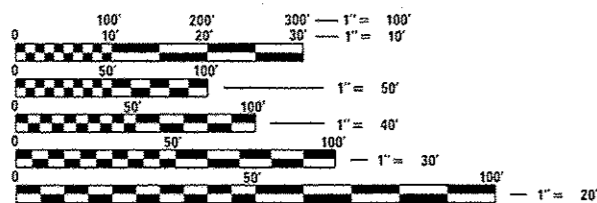
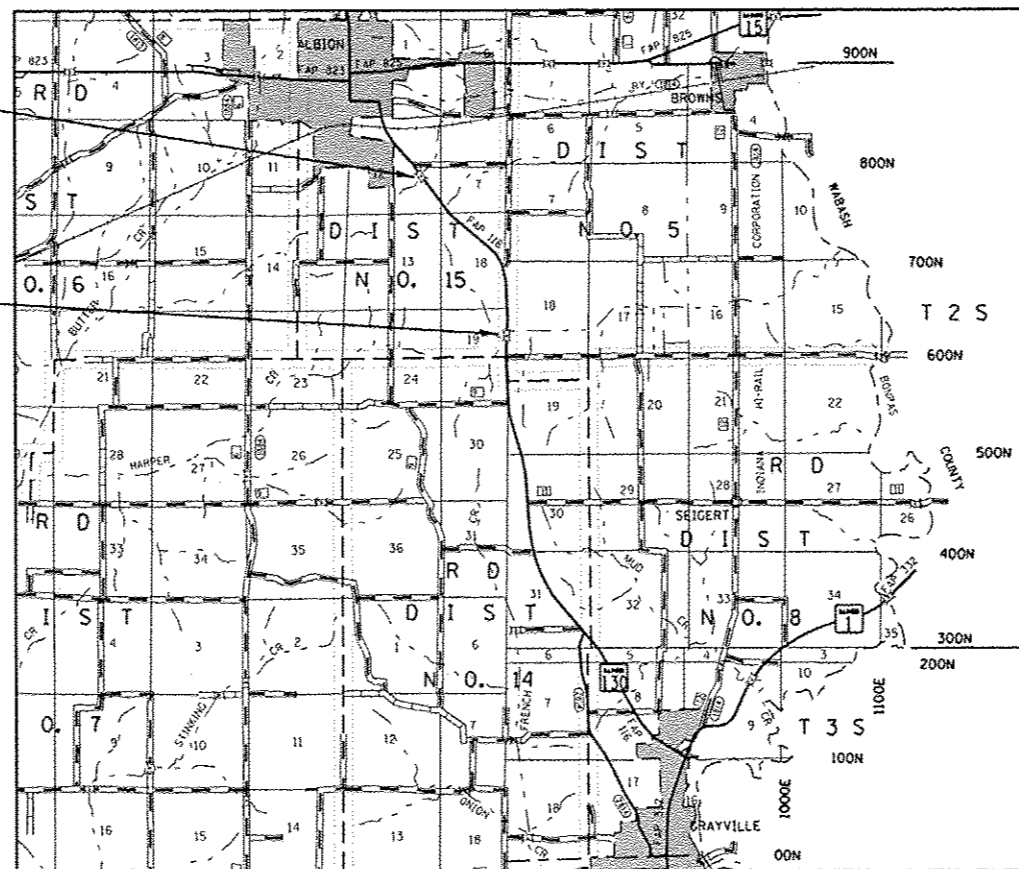
\*72+3 = 75 TOTAL SHEETS

D-97-009-09



LOCATION OF PROPOSED  
BRIDGE REPLACEMENT  
STATION 1198+82.00

LOCATION OF PROPOSED  
CULVERT REPLACEMENT  
STATION 1091+15.10



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: MARK DAUGHERTY  
PROJECT MANAGER: BRIAN LEWIS

CONTRACT NO. 74354

GROSS LENGTH = 1727 FT. = 0.33 MILE  
NET LENGTH = 1727 FT. = 0.33 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED August 31, 2015  
Rogers L. D'Amico  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 2, 2015  
John D. Baranzelli P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 2, 2015  
Chris C. Moran P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**



80% FED  
20% STATE

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20% STATE

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014 SOUTH	0014 NORTH
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14		14
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	69		69
20100500	TREE REMOVAL, ACRES	ACRE	0.8	0.8	
20200100	EARTH EXCAVATION	CU YD	4410	4110	300
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	336	336	
21000300	GRANULAR EMBANKMENT, SPECIAL	TON	1470	1470	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1390	1120	270
* 25000200	SEEDING, CLASS 2	ACRE	2	1.7	0.3
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	153	27
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	153	27
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	153	27
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	4	3.4	0.6
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	170	30
28000305	TEMPORARY DITCH CHECKS	FOOT	216	96	120

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014 SOUTH	0014 NORTH
28000400	PERIMETER EROSION BARRIER	FOOT	200		200
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100109	STONE RIPRAP, CLASS A5	SQ YD	899	732	167
28200200	FILTER FABRIC	SQ YD	899	732	167
28400100	GABIONS	CU YD	9		9
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SQ YD	639	410	229
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	106	106	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	54	54	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	640	640	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	353	353	
40600990	TEMPORARY RAMP	SQ YD	56	56	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	338	338	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	91	91	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	12	12	

\* SPECIALTY ITEMS

FILE NAME :	USER NAME : staffanrk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pu:\112846BID\INTRG\Illinois.gov\PI00T\Documents\100T_Offices\District_7\Projects\743-OBAMA\CA\Sheets\0774354-ht-500.dgn	CHECKED -	REVISED -	116			(78Y)B-1	Edwards	12	3	
PLOT SCALE = 100.0000' / 1" IN.	CHECKED -	REVISED -	CONTRACT NO. 74354							
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: SHEET OF SHEETS STA. TO STA.						

80% FED  
20% STATE

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20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH	
42000400	PORTLAND CEMENT CONCRETE PAVEMENT 9"	SO YD	927	927		
42000411	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	SO YD	176		176	
42001200	PAVEMENT FABRIC	SO YD	927	927		
44000100	PAVEMENT REMOVAL	SO YD	290	114	176	
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SO YD	41		41	
44000167	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/2"	SO YD	33	33		
44004250	PAVED SHOULDER REMOVAL	SO YD	825	497	328	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	725	603	122	
48101610	AGGREGATE SHOULDERS, TYPE B 9"	SO YD	350	229	121	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	334		334	
48300400	PORTLAND CEMENT CONCRETE SHOULDERS 9"	SO YD	1015	695	320	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	390	390		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH	
50300225	CONCRETE STRUCTURES	CU YD	44.6	44.6		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	34.8	20.5	14.3	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	148360	113060	35300	
50800515	BAR SPLICERS	EACH	257	181	76	
51201400	FURNISHING STEEL PILES HP10X42	FOOT	350	350		
51202305	DRIVING PILES	FOOT	350	350		
51500100	NAME PLATES	EACH	2	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	424.3	318.3	106	
54213471	END SECTIONS 36"	EACH	2	2		
54200241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	65	65		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	245	220	25	
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	100	100		
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	81.2	81.2		

\* SPECIALTY ITEMS

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PLOT SCALE = 1/8" = 1' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 74354					
PLOT DATE = 8/28/2015	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					

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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	337.5		337.5
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	3	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	2	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	8	4	4
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	180	100	80
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	60	33	27

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1050	612.5	437.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	837.5	475	362.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	4	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3930	2234	1696
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	8	8
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	3	4
78300100	PAVEMENT MARKING REMOVAL	SO FT	361	223	138
* A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	24	24	
* A2005816	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 2" CALIPER, BALLED AND BURLAPPED	EACH	12	12	

\* SPECIALTY ITEMS

FILE NAME *	USER NAME = staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 8/28/2015					ILLINOIS FED. AID PROJECT					

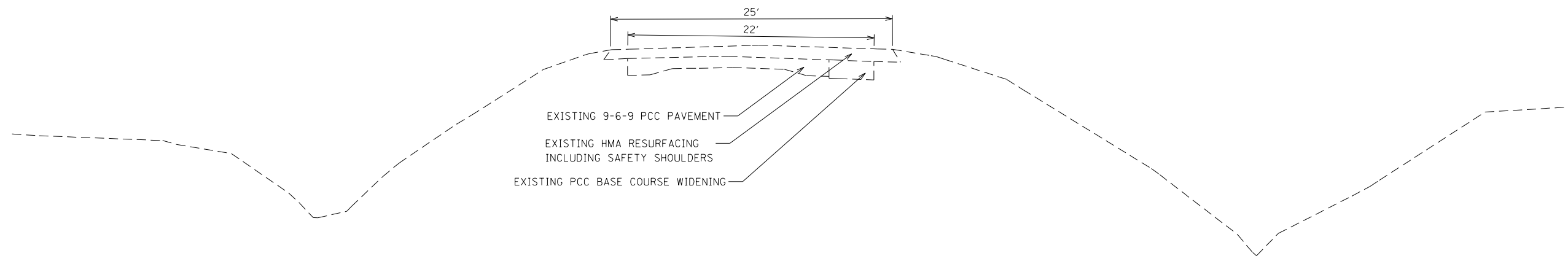
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SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH
* A2006016	TREE, POPULUS DELTOIDES ROBUSTA (ROBUSTA COTTONLESS POPLAR), 2" CALIPER, BALLED AND BURLAPPED	EACH	12	12	
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	24	24	
* B2001116	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	24	24	
X0327301	RELOCATE EXISTING MAILBOX	EACH	1	1	
<del>X0327726</del>	<del>MEMBRANE WATERPROOFING FOR CULVERTS</del>	<del>SO YD</del>	<del>257</del>	<del>257</del>	
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	38	38	
X5030275	CONCRETE WEARING SURFACE REMOVAL	SO YD	29	29	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	135	75	60
Z0004552	APPROACH SLAB REMOVAL	SO YD	49	49	
Z0041500	PLUG EXISTING CULVERTS	EACH	1	1	
* Z0054505	ROCK FILL - REPLACEMENT	TON	648.8	601.2	47.6

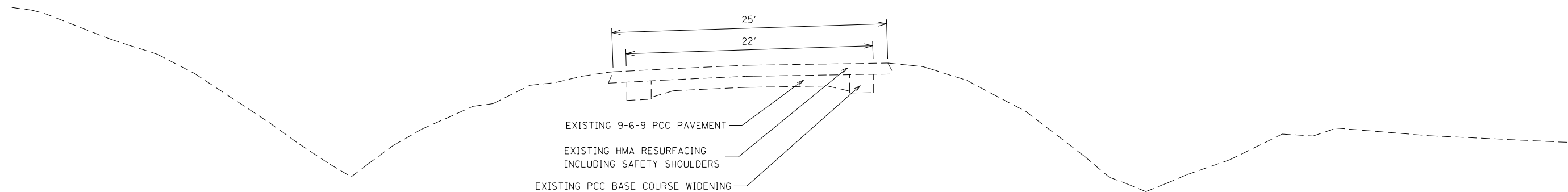
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0014 SOUTH	0014 NORTH
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1331	819	512

\* SPECIALTY ITEMS



EXISTING 9-6-9 PCC PAVEMENT  
 EXISTING HMA RESURFACING  
 INCLUDING SAFETY SHOULDERS  
 EXISTING PCC BASE COURSE WIDENING

STA. 1080+50 TO 1090+89  
 STA. 1091+39 TO 1094+50 \*  
 \*OMISSION INCLUDES CULVERT TOP SLAB  
 AND APPROACH SLABS



EXISTING 9-6-9 PCC PAVEMENT  
 EXISTING HMA RESURFACING  
 INCLUDING SAFETY SHOULDERS  
 EXISTING PCC BASE COURSE WIDENING

STA. 1195+00 TO 1202+00

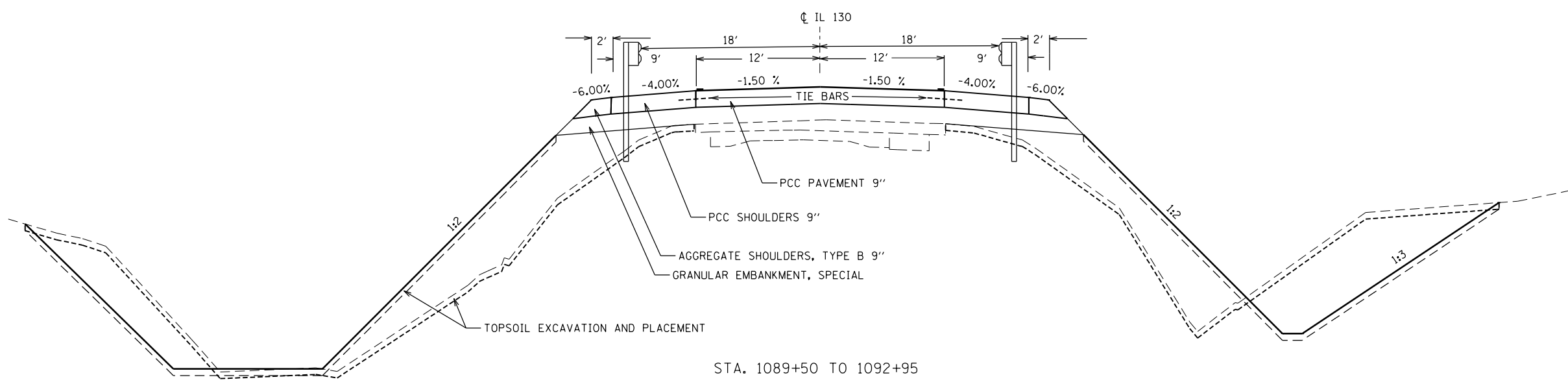
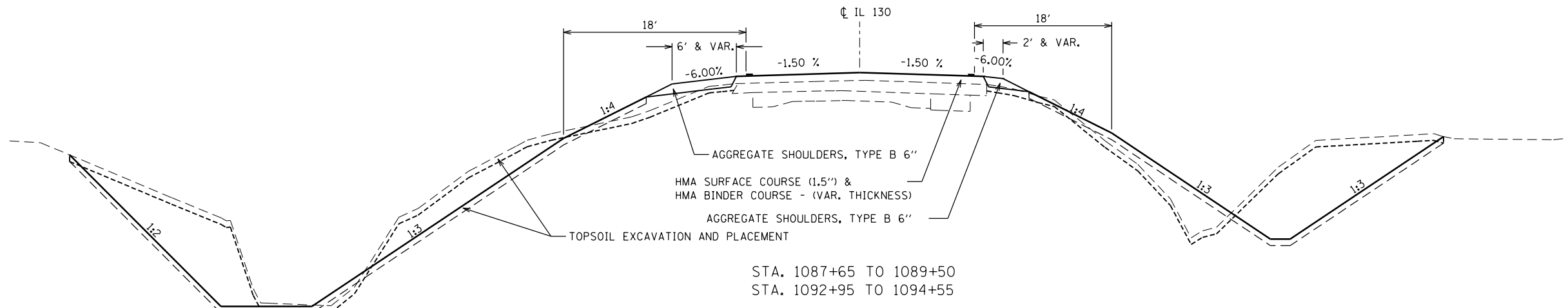
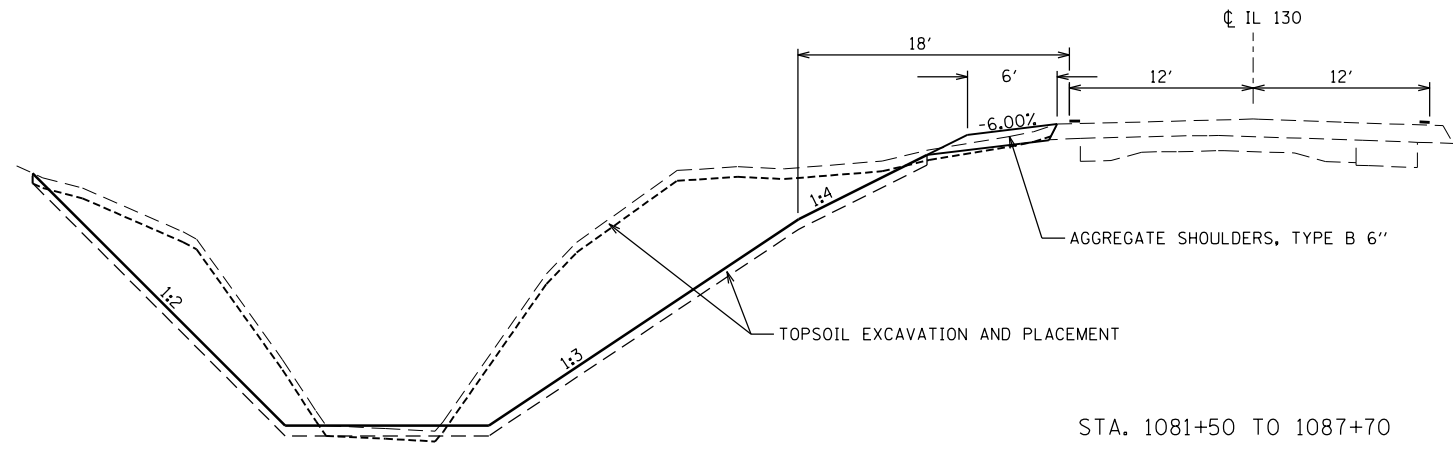
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	PLOT DATE = 8/28/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS -  
 EXISTING**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	Edwards	72	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74354	



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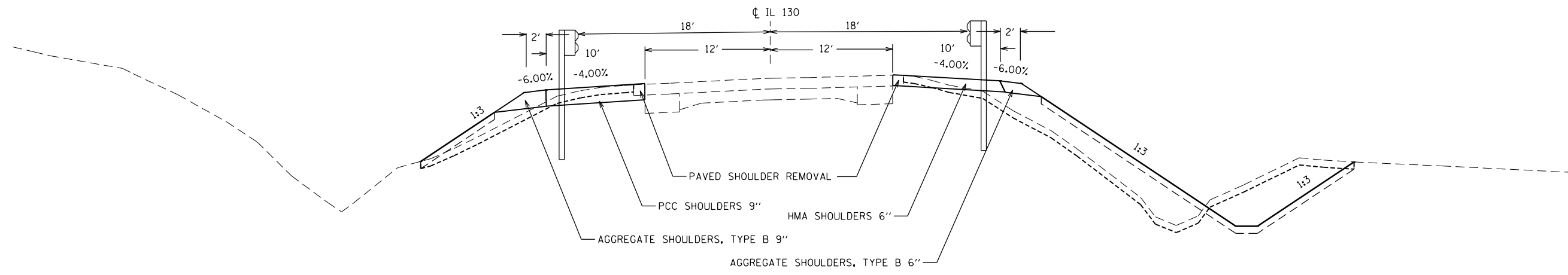
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS -  
SOUTH CULVERT, PROPOSED**

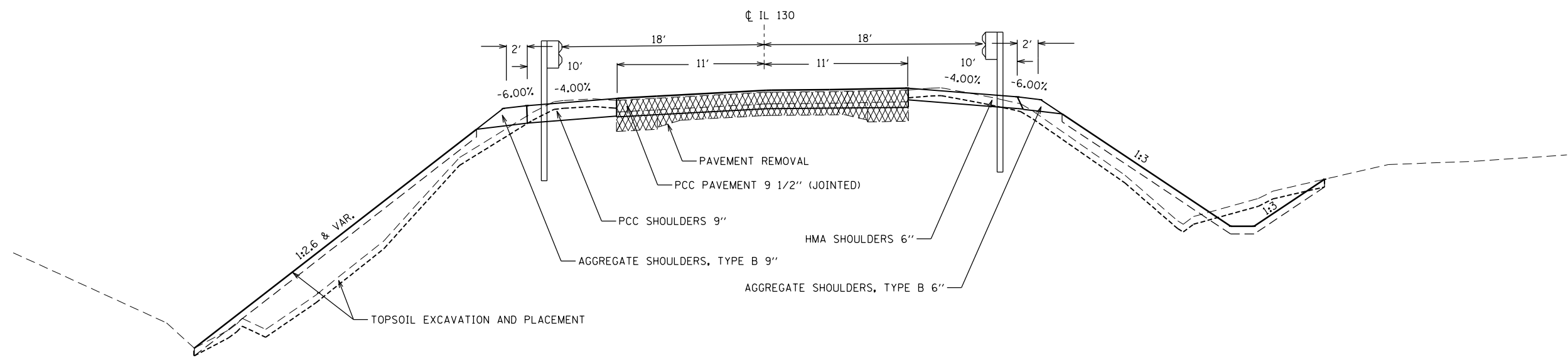
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	Edwards	72	8
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	





STA. 1197+22 TO 1198+46  
 STA. 1199+18 TO 1200+41



STA. 1198+46 TO 1199+18

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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 NORTH CULVERT, PROPOSED**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	Edwards	72	9
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	

TREE REMOVAL, ACRES
LT. STA. 1081+50 TO 1090+00 0.5 ACRE
RT. STA. 1088+85 TO 1093+30 0.3 ACRE
TOTAL 0.8 ACRE

TREE REMOVAL (OVER 15 UNITS DIAMETER)
RT. STA. 1199+01 22 UNIT
RT. STA. 1199+02 20 UNIT
RT. STA. 1199+15 27 UNIT
TOTAL 69 UNIT

TEMPORARY RAMP
STA. 1087+65 TO 1087+70 14 S. Y.
STA. 1089+45 TO 1089+50 14 S. Y.
STA. 1092+95 TO 1093+00 14 S. Y.
STA. 1094+50 TO 1094+55 14 S. Y.
TOTAL 56 S. Y.

CONCRETE WEARING SURFACE REMOVAL
RT. STA. 1091+12 TO 1091+45 14 S. Y.

APPROACH SLAB REMOVAL
STA. 1090+89 TO 1090+99 24.5 S. Y.
STA. 1091+29 TO 1091+39 24.5 S. Y.
TOTAL 49 S. Y.

TREE REMOVAL (6 TO 15 UNITS DIAMETER)
LT. STA. 1198+50 14 UNIT

SEEDING, CLASS 2
SOUTH CULVERT 1.7 ACRE
NORTH CULVERT 0.3 ACRE
TOTAL 2 ACRE

PAVED SHOULDER REMOVAL (INCLUDES PCC WIDENING FOR STAGING)
RT. STA. 1088+54 TO 1093+83 83 S. Y.
RT. STA. 1088+54 TO 1093+83 414 S. Y.
RT. STA. 1197+44 TO 1200+19 46 S. Y.
RT. STA. 1197+44 TO 1200+19 229 S. Y.
LT. STA. 1197+21 TO 1200+39 53 S. Y.
TOTAL 825 S. Y.

TEMPORARY RAMP, SPECIAL
RT. STA. 1091+71 TO 1092+39 38 S. Y.

STONE RIPRAP, CLASS A5
80' LT. STA. 1081+68 TO 1082+43 167 S. Y.
80' LT. STA. 1085+55 TO 1086+40 189 S. Y.
80' LT. STA. 1086+78 TO 1087+28 111 S. Y.
TOTAL 467 S. Y.

EARTHWORK SCHEDULE					
LOCATION	EARTH EXCAVATION CU. YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE CU. YD.	EMBANKMENT CU. YD.	EARTHWORK BALANCE WASTE(+) SHORTAGE(-) CU. YD.	TOPSOIL EXCAVATION AND PLACEMENT CU. YD.
SOUTH CULVERT	4110	3083	1597	1486	1120
NORTH CULVERT	300	225	431	-206	270
TOTALS	4410	3308	2028	1280	1390

GUARDRAIL & SHOULDER SCHEDULE - SOUTH CULVERT

DESCRIPTION	STATIONING		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	TRAFFIC BARRIER TERMINAL, TYPE 2	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	PCC SHOULDERS, 9"
	FROM	TO								
WEST SIDE	1089+53	1090+03			1				1	
	1090+03	1090+53	50					1		
	1090+53	1090+78		25				2		
	1090+78	1091+16				40.6				
	1091+16	1091+41		25						
	1091+41	1091+52	11					1		
	1091+52	1091+82	50							
	1091+82	1091+82					1			
EAST SIDE	1089+50	1092+95								347
	1089+83	1090+33			1				1	
	1090+33	1090+92	59					1		
	1090+92	1091+14		25				2		
	1091+14	1091+55				40.6				
	1091+55	1091+80		25						
	1091+80	1092+30	50					1		
	1092+30	1092+80			1				1	
	1089+50	1092+95								348
	STRUCTURE # 024-2002 TOTAL			220	100	3	81.2	1	8	3

GUARDRAIL & SHOULDER SCHEDULE - NORTH CULVERT

DESCRIPTION	STATIONING		TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	HOT-MIX ASPHALT SHOULDERS, 6"	PCC SHOULDERS, 9"
	FROM	TO							
WEST SIDE	1197+39	1197+89	1		168.75	3	1		
	1197+89	1199+58		12.5		1			
	1199+58	1199+71					1		
	1199+71	1200+21	1						
	1197+21	1200+39							320
EAST SIDE	1197+44	1197+94	1				1		
	1197+94	1198+06		12.5		1			
	1198+06	1199+75			168.75	3			
	1199+75	1200+25	1				1		
	1197+27	1200+42						334	
STRUCTURE # 024-7033 TOTAL			4	25	337.5	8	4	334	320

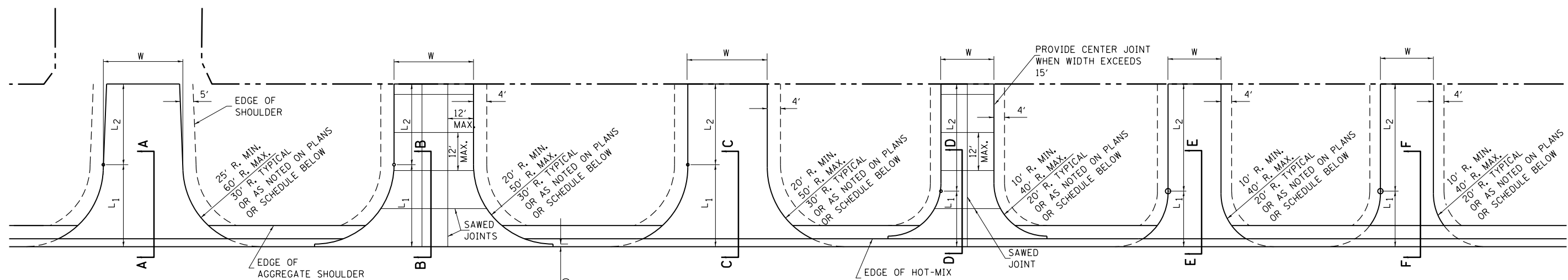
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74354	



**PUBLIC ROAD**

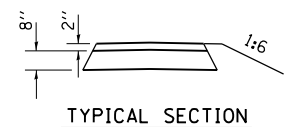
**COMMERCIAL (P.C.C.)**

**COMMERCIAL (HOT-MIX ASPHALT)**

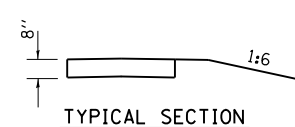
**PRIVATE ENTRANCE (P.C.C.)**

**PRIVATE ENTRANCE (HOT-MIX ASPHALT)**

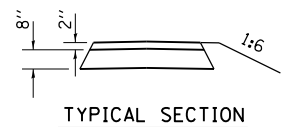
**FIELD ENTRANCE (AGGREGATE)**



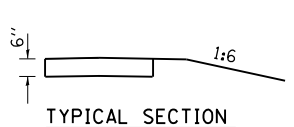
**TYPICAL SECTION**



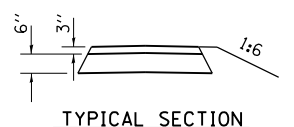
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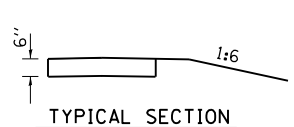
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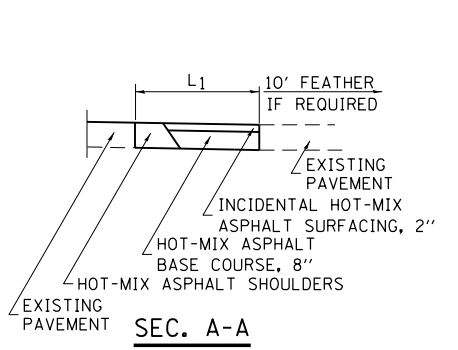
**TYPICAL SECTION**



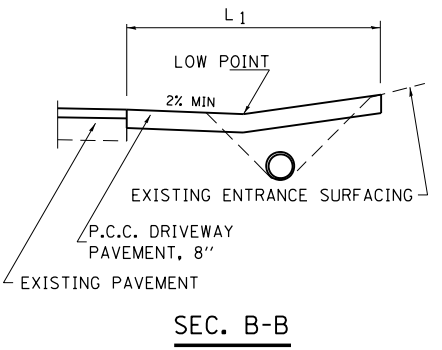
**TYPICAL SECTION**



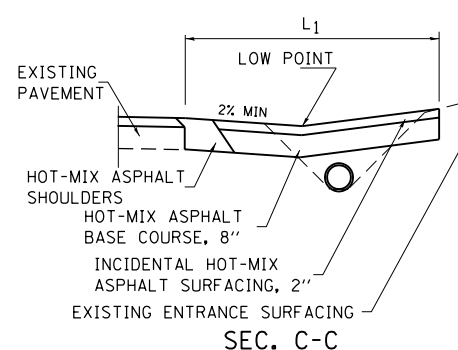
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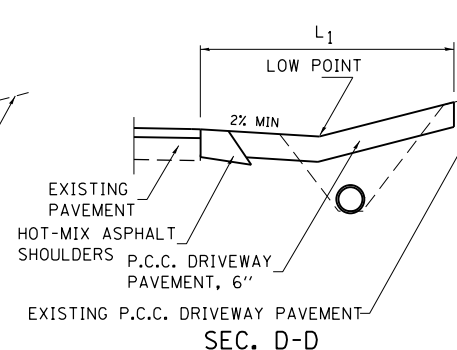
**SEC. A-A**



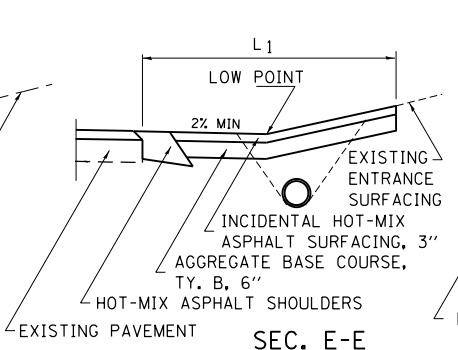
**SEC. B-B**



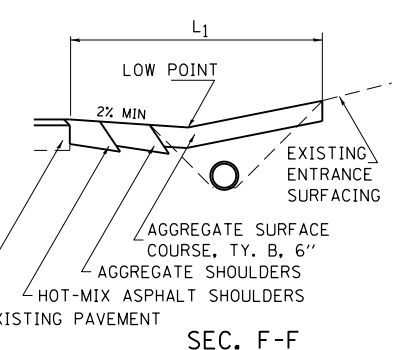
**SEC. C-C**



**SEC. D-D**



**SEC. E-E**



**SEC. F-F**

**ENTRANCE SCHEDULE**

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADII	AGGREGATE BASE COURSE, TY. B, 6"		HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B		INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L <sub>1</sub>	L <sub>2</sub>		TON	SO. YD.		TON	TON		6"	8"	
CE	LT 1091+95	20	26.5	12.5	35		106			12				

**ENTRANCE SCHEDULE**

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADII	AGGREGATE BASE COURSE, TY. B, 6"		HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B		INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L <sub>1</sub>	L <sub>2</sub>		TON	SO. YD.		TON	TON		6"	8"	

**NOTES**

L<sub>1</sub> = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.  
 L<sub>2</sub> = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE  
 MATERIAL USED TO CONSTRUCT L<sub>2</sub> LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

HOT-MIX ASPHALT SHOULDERS SHALL NOT BE CONSTRUCTED THROUGH PCC ENTRANCE OR PUBLIC ROAD APPROACH.

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH  
 PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT  
 CE=COMMERCIAL ENTRANCE

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISOR -	DATE - 03-13-07
PROJECT =	PROJECT NO. =	CHECKED -	REVISOR -	DATE -
PLOT SCALE = 100.0000' / 1"		DATE -		
PLOT DATE = 8/28/2015				

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

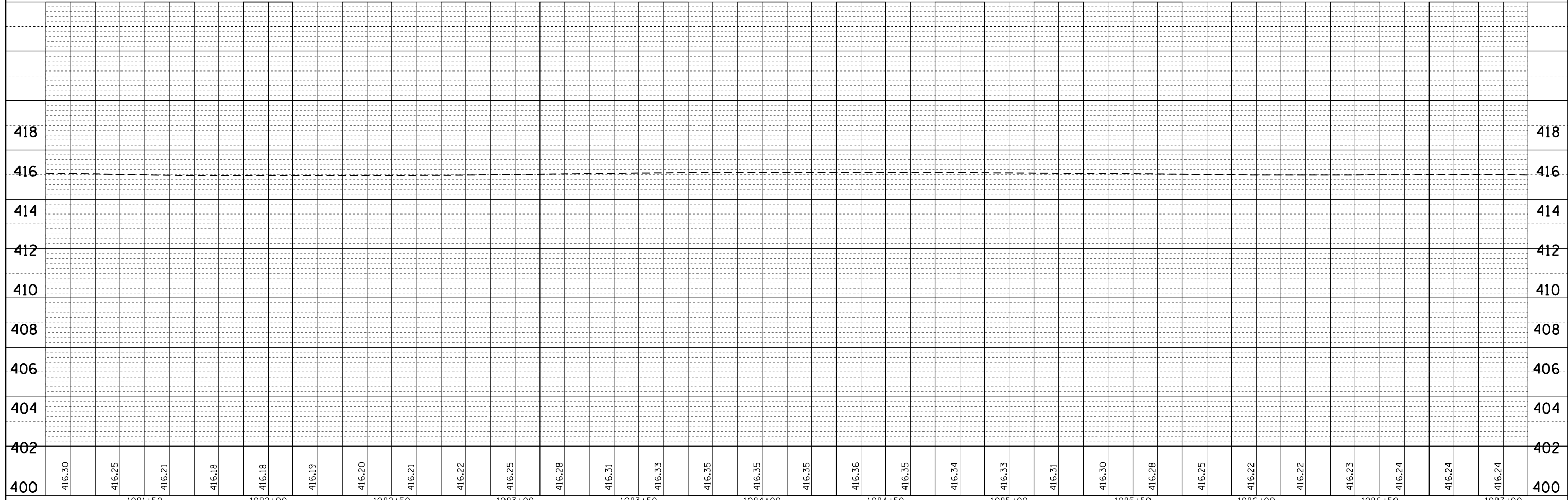
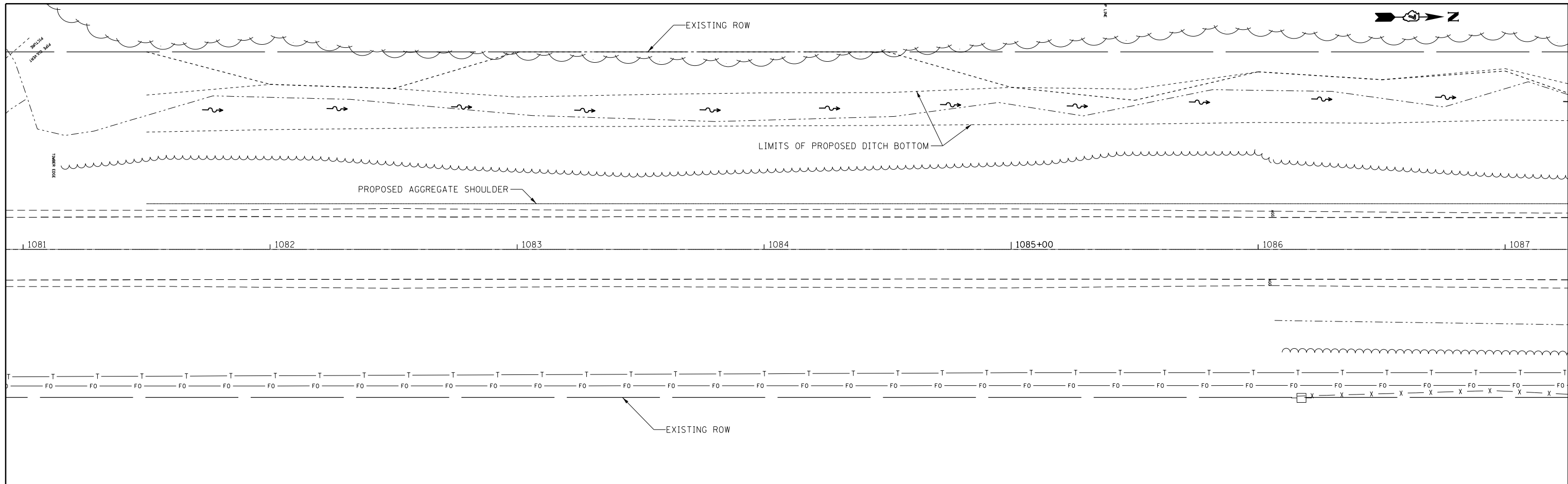
**ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS  
 WITH BASE COURSE WIDENING**

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

F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	11
CONTRACT NO. 74354				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT	
	FILE NAME	

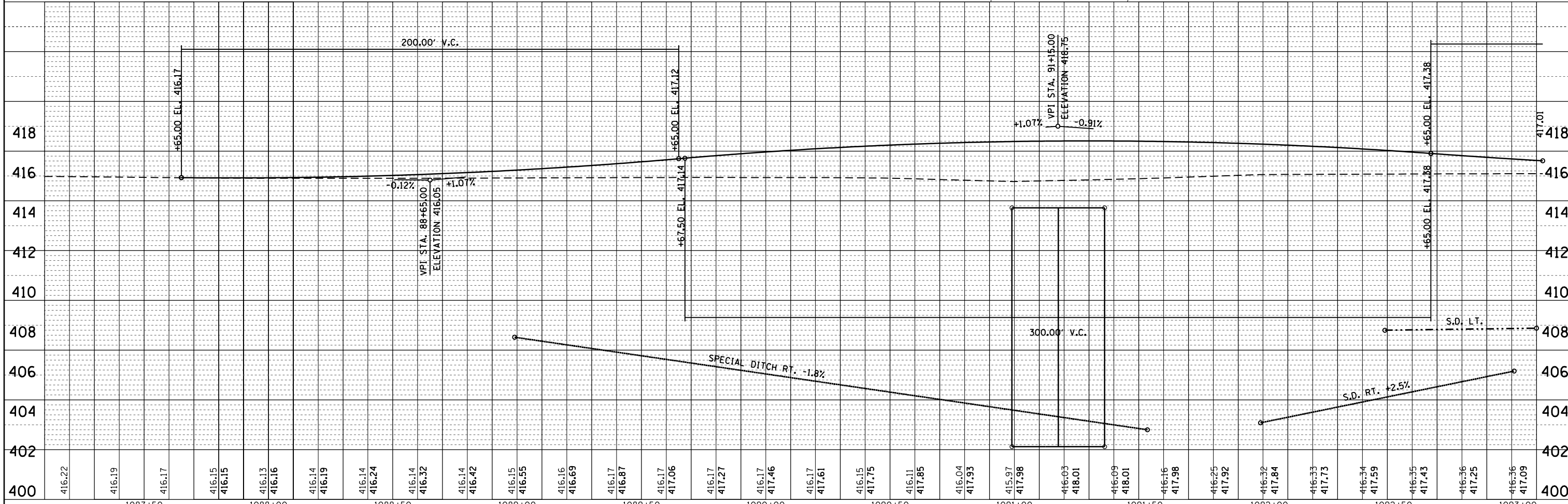
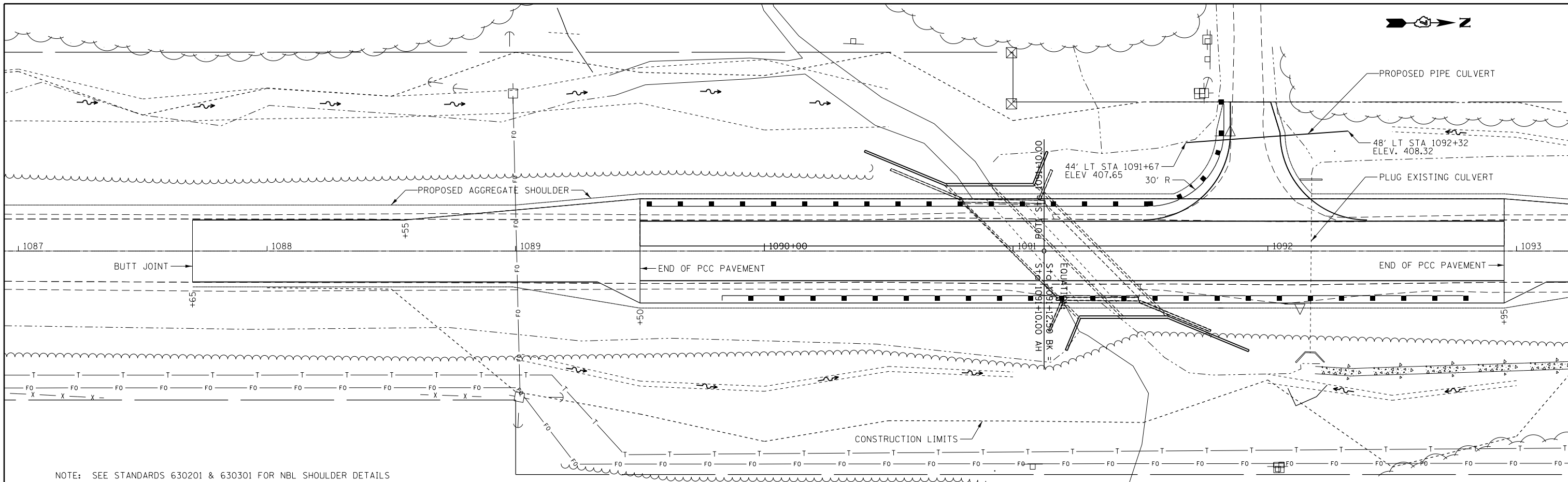
PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATIONS	



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE SOUTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIED -			116	(7BY)B-1	Edwards	72	12	
	PLOT DATE = 8/28/2015	DATE -	REVISIED -			CONTRACT NO. 74354		ILLINOIS FED. AID PROJECT			
						SCALE:	SHEET OF SHEETS	STA. TO STA.			

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

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

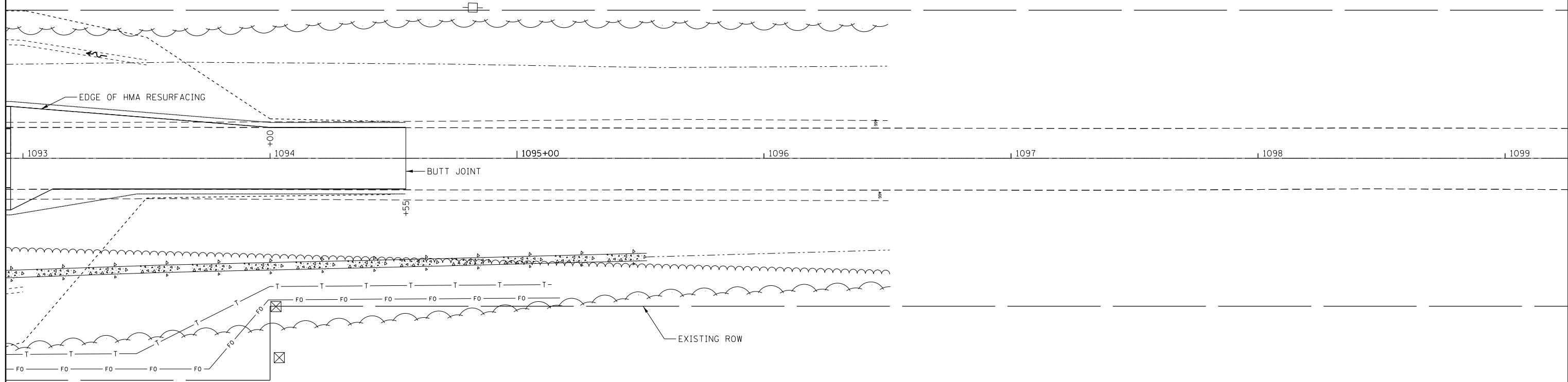


FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE</b> <b>SOUTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN	REVISD -			116	(7BY)B-1	Edwards	72	13	
		CHECKED	REVISD -			CONTRACT NO. 74354					
		DATE	REVISD -			ILLINOIS FED. AID PROJECT					

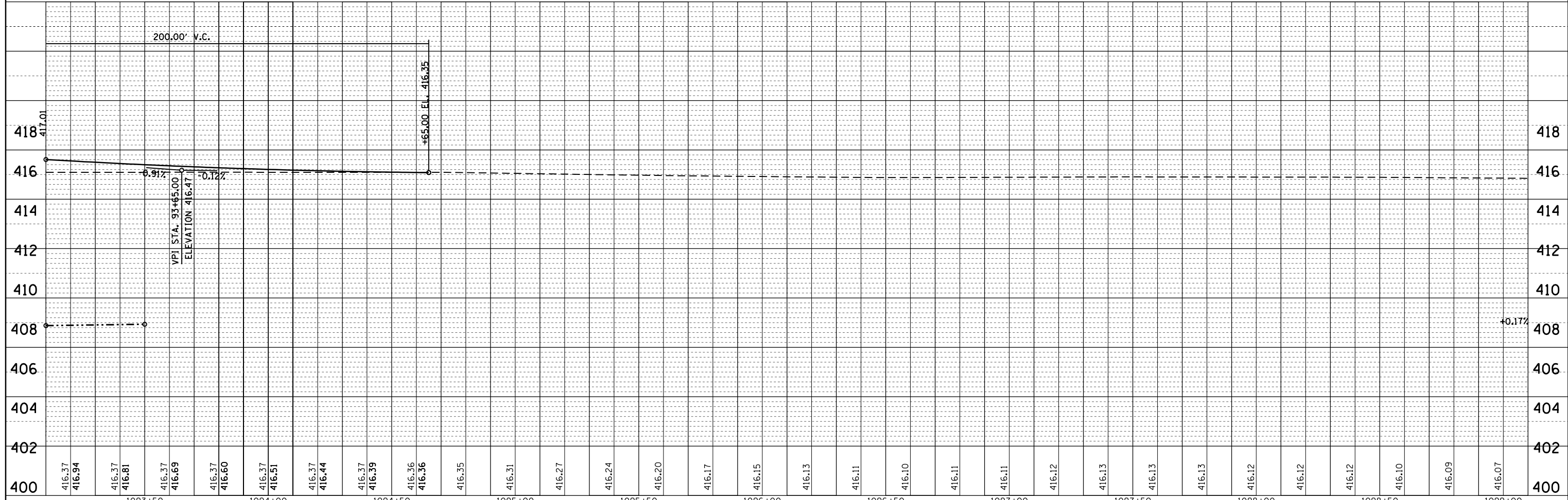
SCALE: SHEET OF SHEETS STA. TO STA.



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



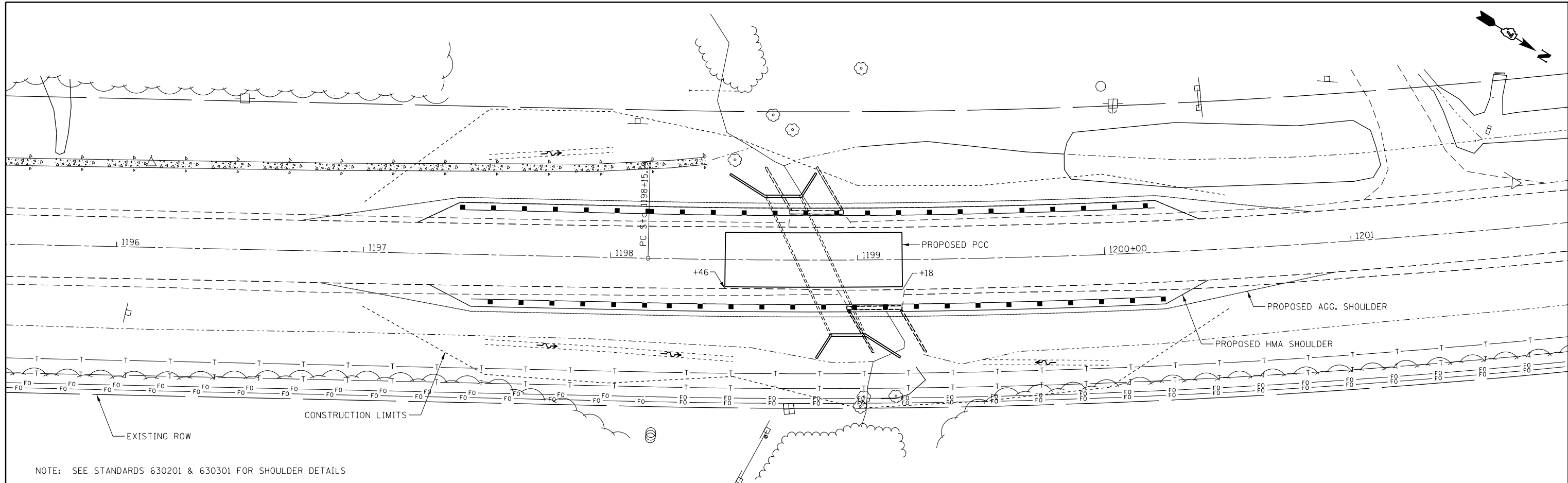
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	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.		
	STRUCTURE		
	NOTATIONS		
	CHKD		



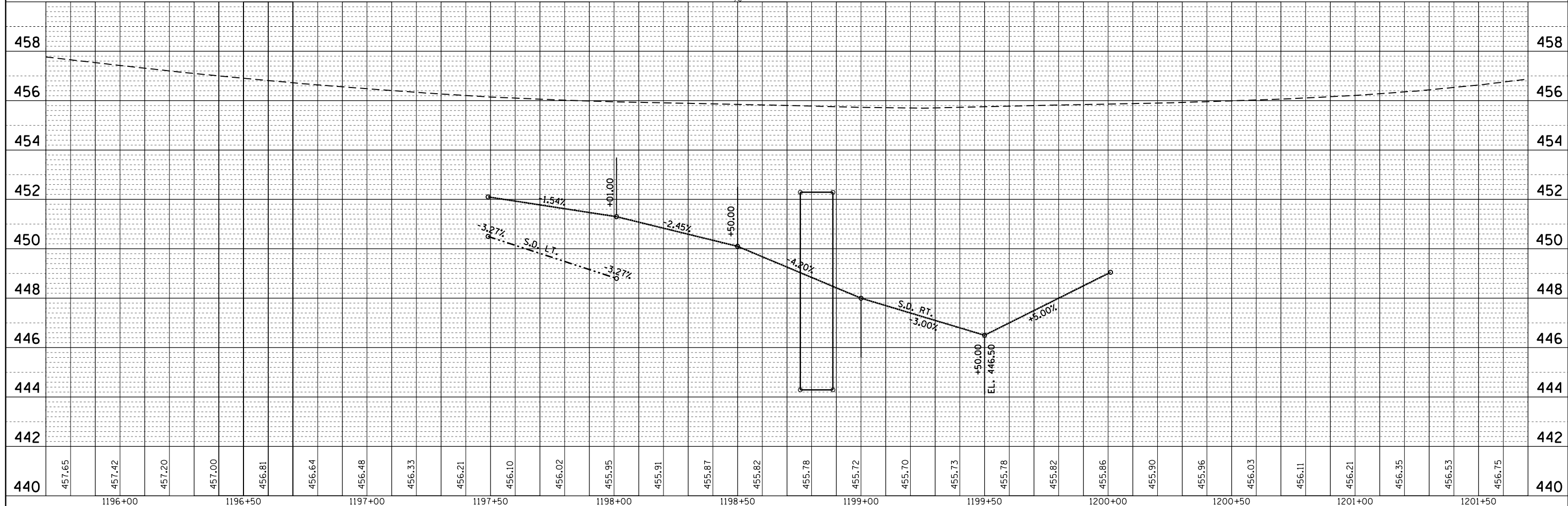
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Default		CHECKED -	REVISIED -			116	(7BY)B-1	Edwards	72	14	
		DATE -	REVISIED -			CONTRACT NO. 74354		ILLINOIS FED. AID PROJECT			
						SCALE:	SHEET OF SHEETS	STA. TO STA.			

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

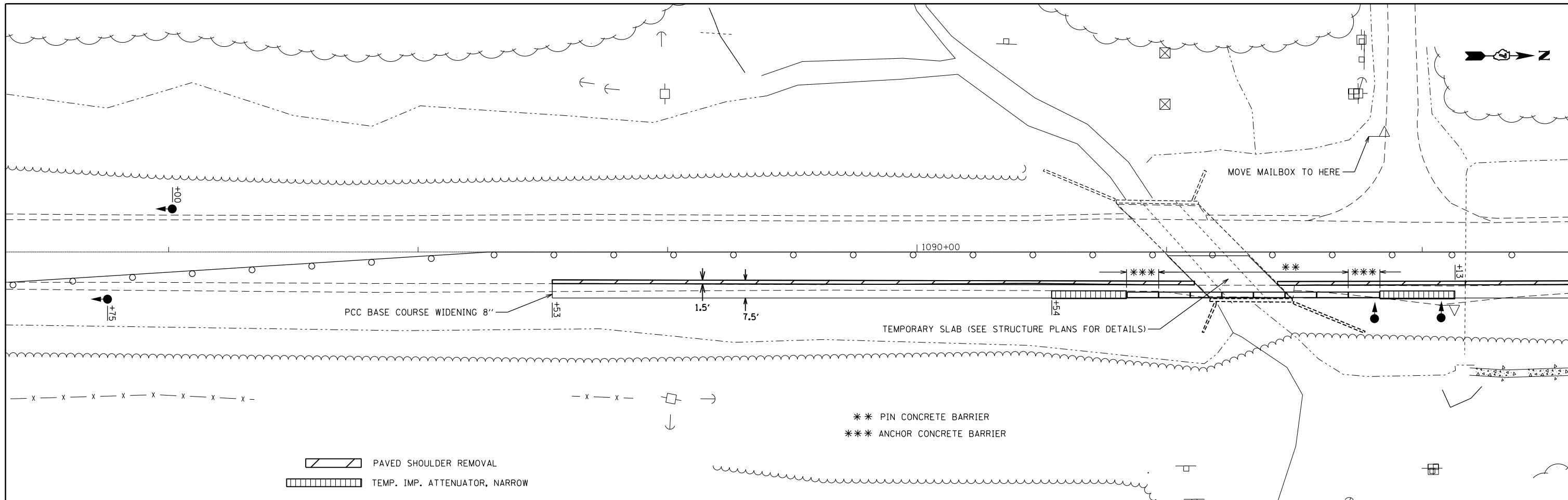
DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOT AT THIS OFFICE	
NO. _____	
NOTE BOOK	
NO. _____	



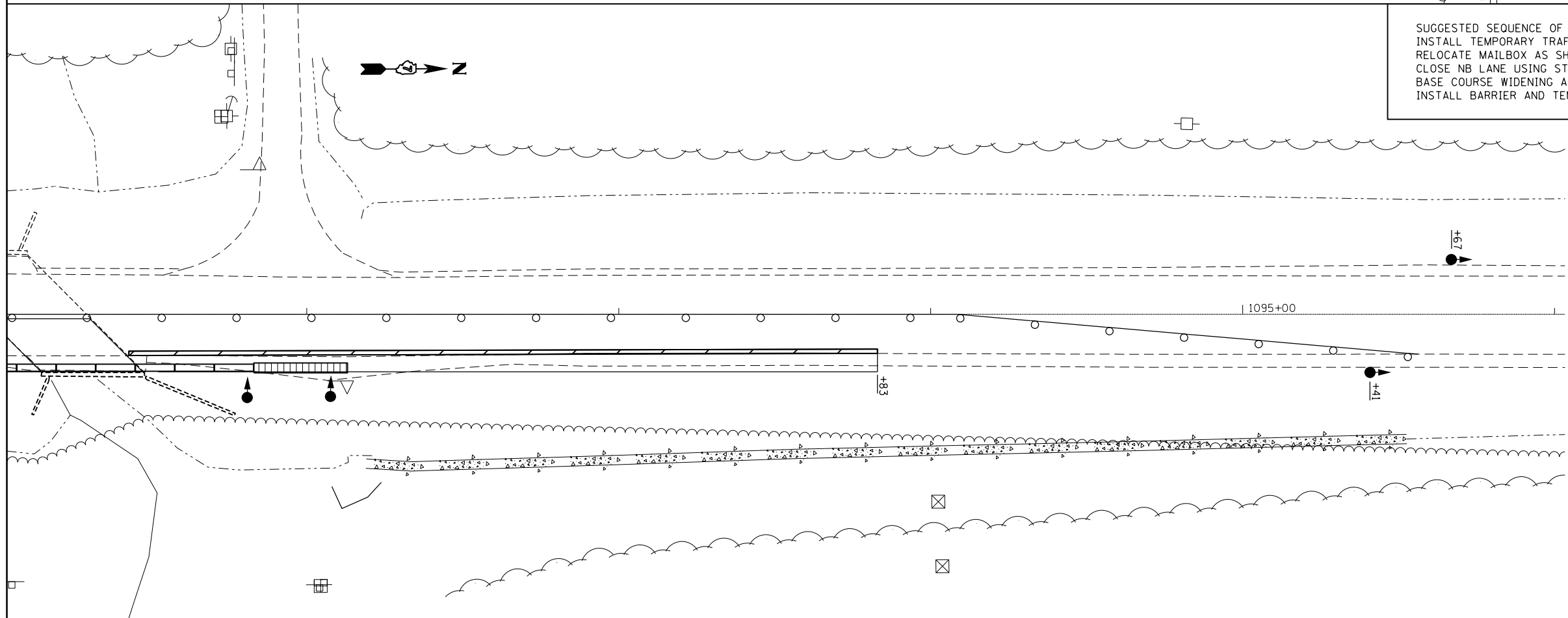
NOTE: SEE STANDARDS 630201 & 630301 FOR SHOULDER DETAILS



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE NORTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			116	(7BY)B-1	Edwards	72	15	
		DATE -	REVISED -			CONTRACT NO. 74354		ILLINOIS FED. AID PROJECT			
						SCALE:	SHEET	OF	SHEETS	STA.	TO



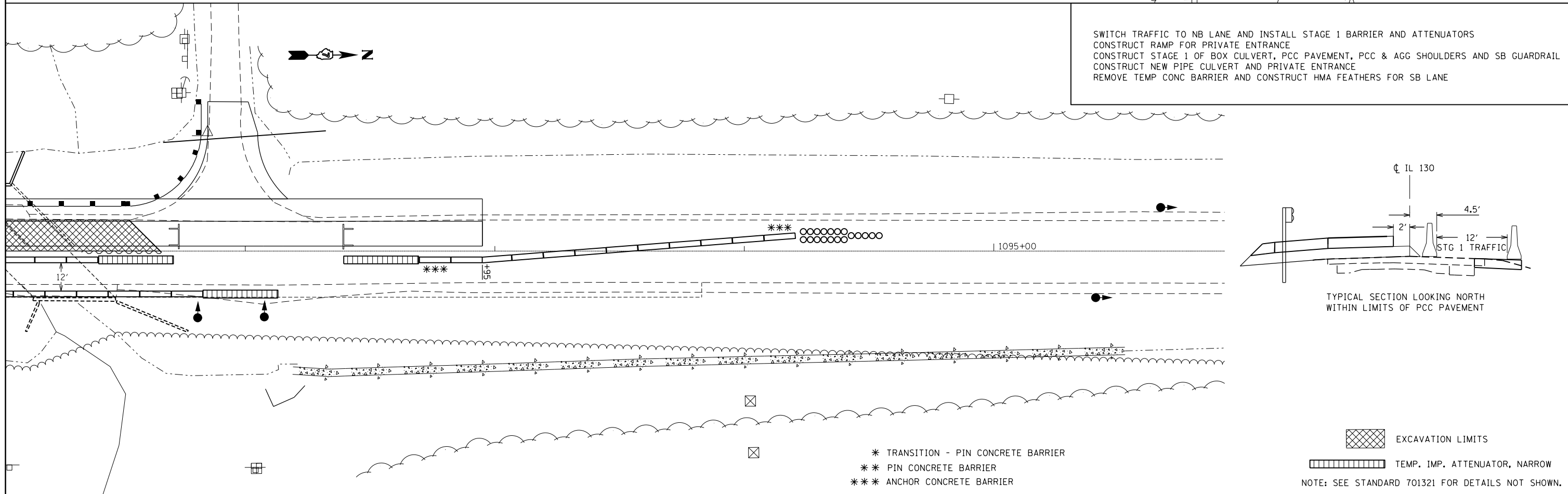
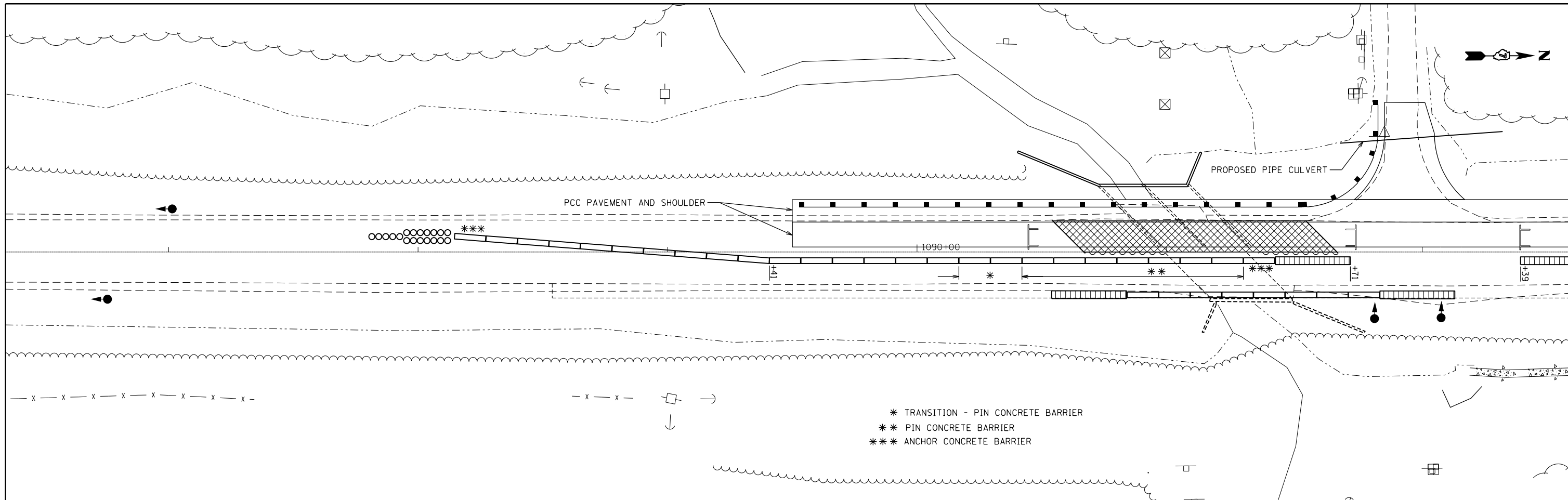
SUGGESTED SEQUENCE OF OPERATIONS:  
 INSTALL TEMPORARY TRAFFIC SIGNALS  
 RELOCATE MAILBOX AS SHOWN  
 CLOSE NB LANE USING STANDARD 701316, CONSTRUCT TEMPORARY SLAB,  
 BASE COURSE WIDENING AND HMA FEATHERS  
 INSTALL BARRIER AND TEMP IMPACT ATTENUATORS ALONG EAST EDGE OF WIDENING



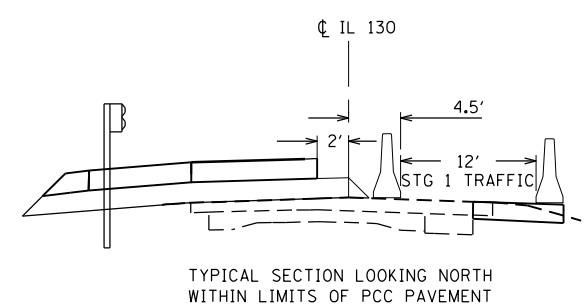
NOTE: SEE STANDARD 701316 FOR DETAILS NOT SHOWN.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PRE-STAGE SOUTH CULVERT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74354\DRAWING\CAD\Sheets\D774354-sht-staging		CHECKED -	REVISED -		116	(7BR,7BY)B-1	Edwards	72	16			
Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/28/2015				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	





SWITCH TRAFFIC TO NB LANE AND INSTALL STAGE 1 BARRIER AND ATTENUATORS  
 CONSTRUCT RAMP FOR PRIVATE ENTRANCE  
 CONSTRUCT STAGE 1 OF BOX CULVERT, PCC PAVEMENT, PCC & AGG SHOULDERS AND SB GUARDRAIL  
 CONSTRUCT NEW PIPE CULVERT AND PRIVATE ENTRANCE  
 REMOVE TEMP CONC BARRIER AND CONSTRUCT HMA FEATHERS FOR SB LANE



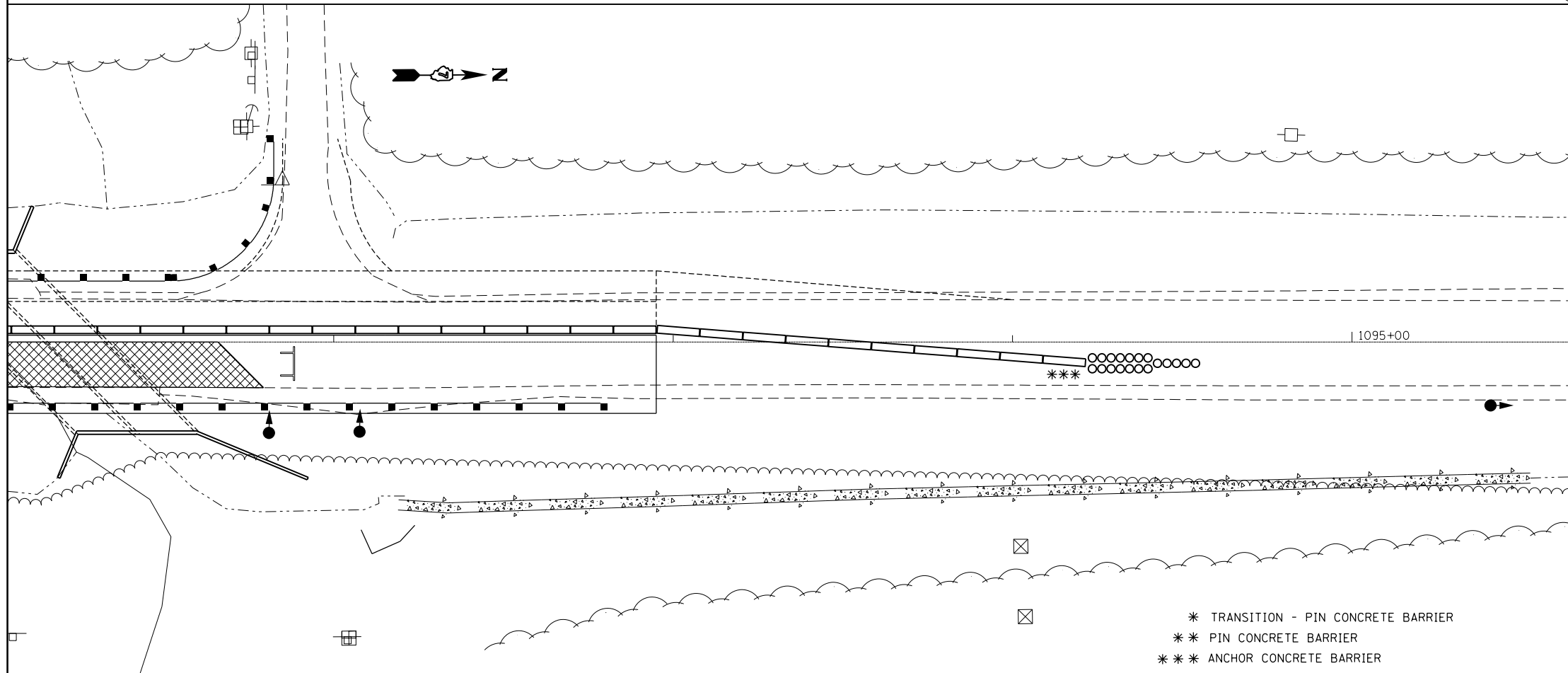
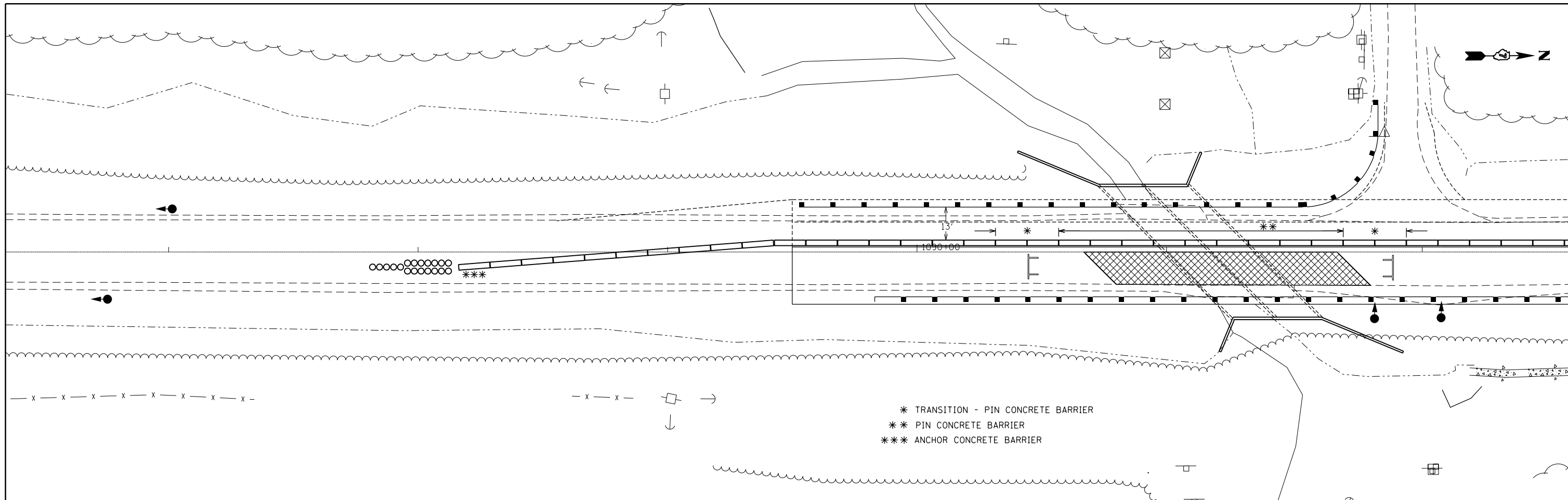
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Default	PLOT DATE = 8/28/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE 1  
SOUTH CULVERT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)-1	Edwards	72	17
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	



\* TRANSITION - PIN CONCRETE BARRIER  
 \*\* PIN CONCRETE BARRIER  
 \*\*\* ANCHOR CONCRETE BARRIER

SWITCH TRAFFIC TO SB LANE  
 INSTALL TEMP CONC BARRIER FOR STAGE 2  
 REMOVE BASE COURSE WIDENING USED FOR STAGE 1  
 CONSTRUCT STAGE 2 BOX, PCC PAVEMENT, PCC & AGG SHOULDERS AND GUARDRAIL  
 REMOVE TEMP CONC BARRIER AND CONSTRUCT FEATHERS FOR NB LANE  
 REMOVE TEMP TRAFFIC SIGNALS AND OPEN BOTH LANES TO TRAFFIC  
 CONSTRUCT HMA SURFACE COURSE

\* TRANSITION - PIN CONCRETE BARRIER  
 \*\* PIN CONCRETE BARRIER  
 \*\*\* ANCHOR CONCRETE BARRIER

EXCAVATION LIMITS

NOTE: SEE STANDARD 701321 FOR DETAILS NOT SHOWN.

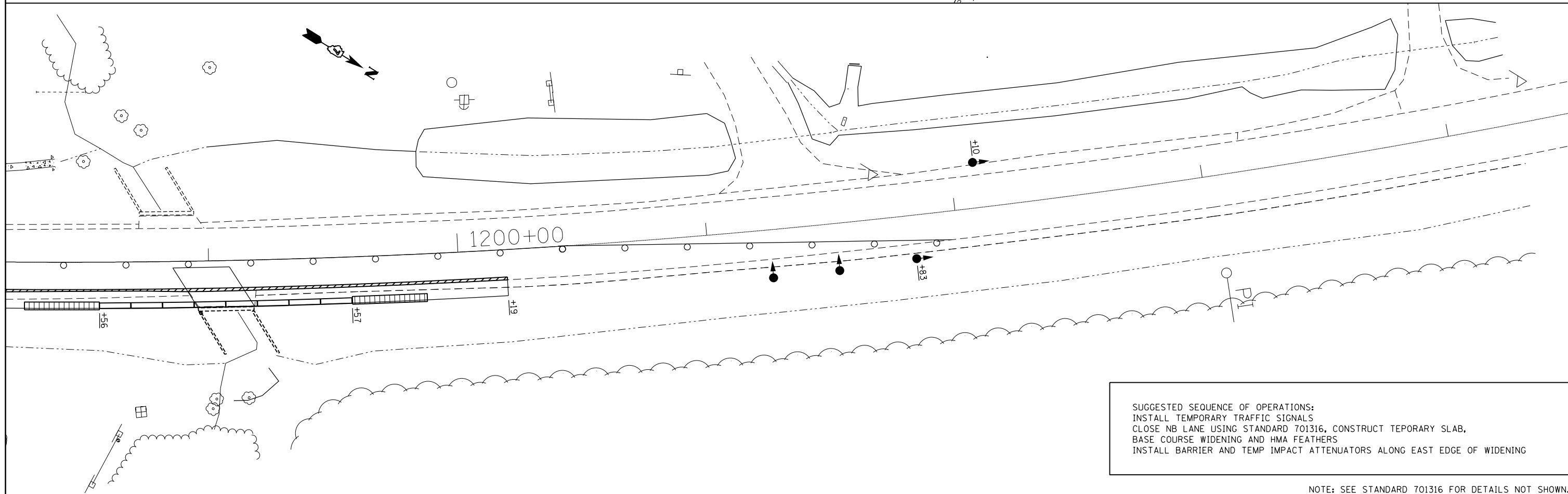
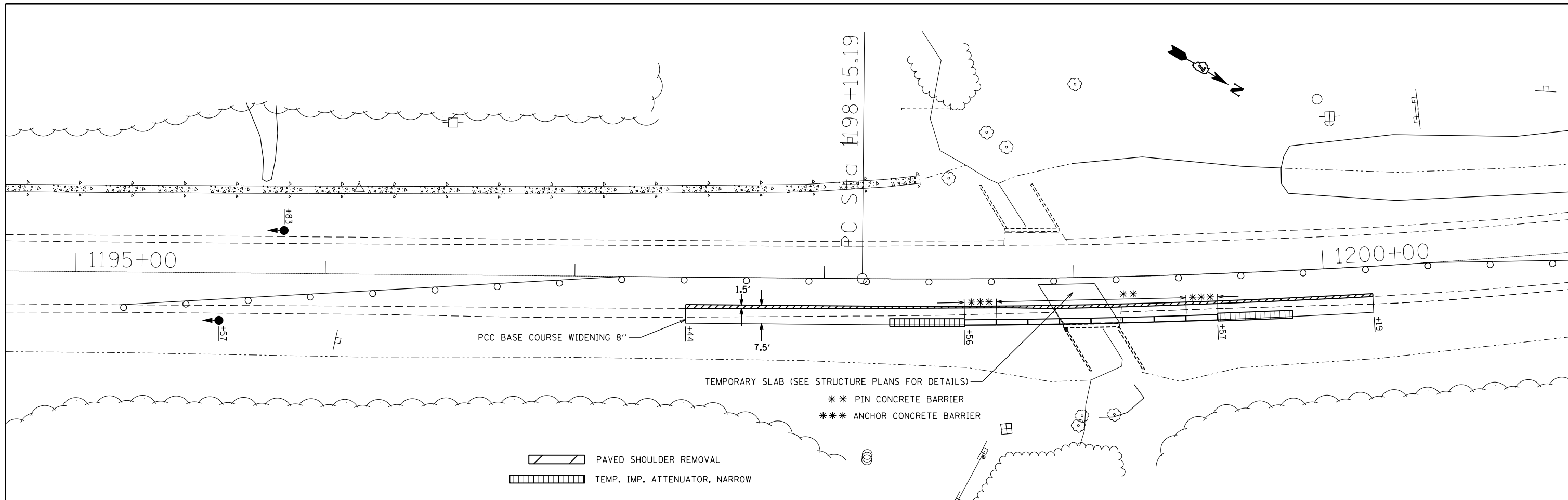
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Default	PLOT DATE = 8/28/2015	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.

STAGE 2  
 SOUTH CULVERT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	18
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	



SUGGESTED SEQUENCE OF OPERATIONS:  
 INSTALL TEMPORARY TRAFFIC SIGNALS  
 CLOSE NB LANE USING STANDARD 701316, CONSTRUCT TEMPORARY SLAB,  
 BASE COURSE WIDENING AND HMA FEATHERS  
 INSTALL BARRIER AND TEMP IMPACT ATTENUATORS ALONG EAST EDGE OF WIDENING

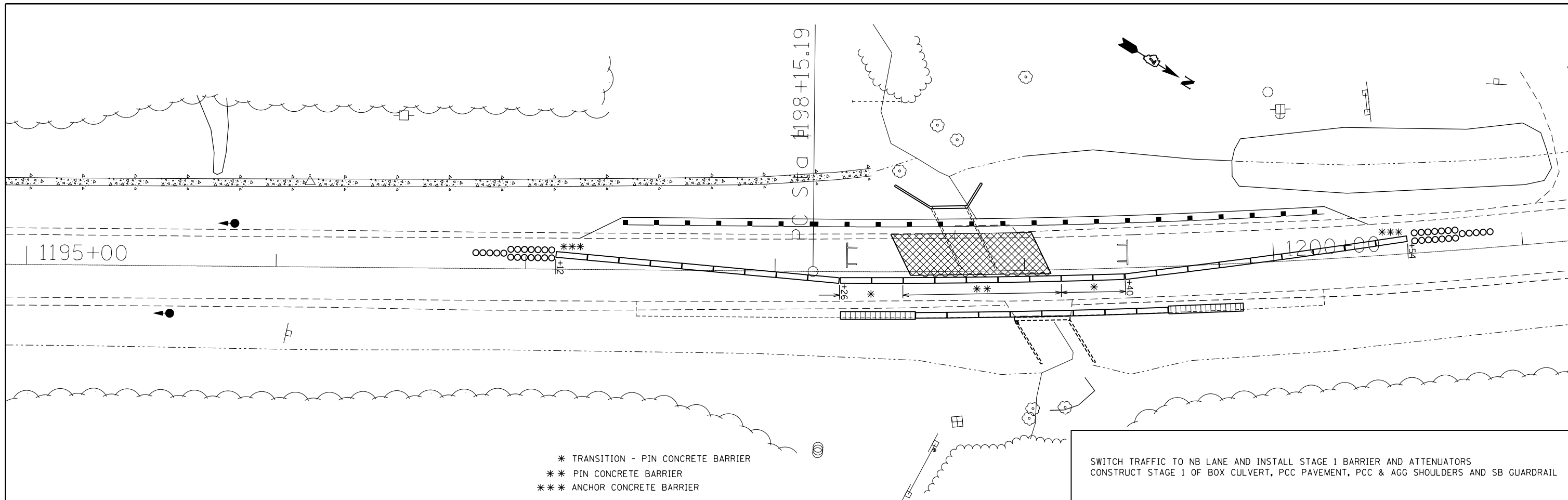
NOTE: SEE STANDARD 701316 FOR DETAILS NOT SHOWN.

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Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 8/28/2015		

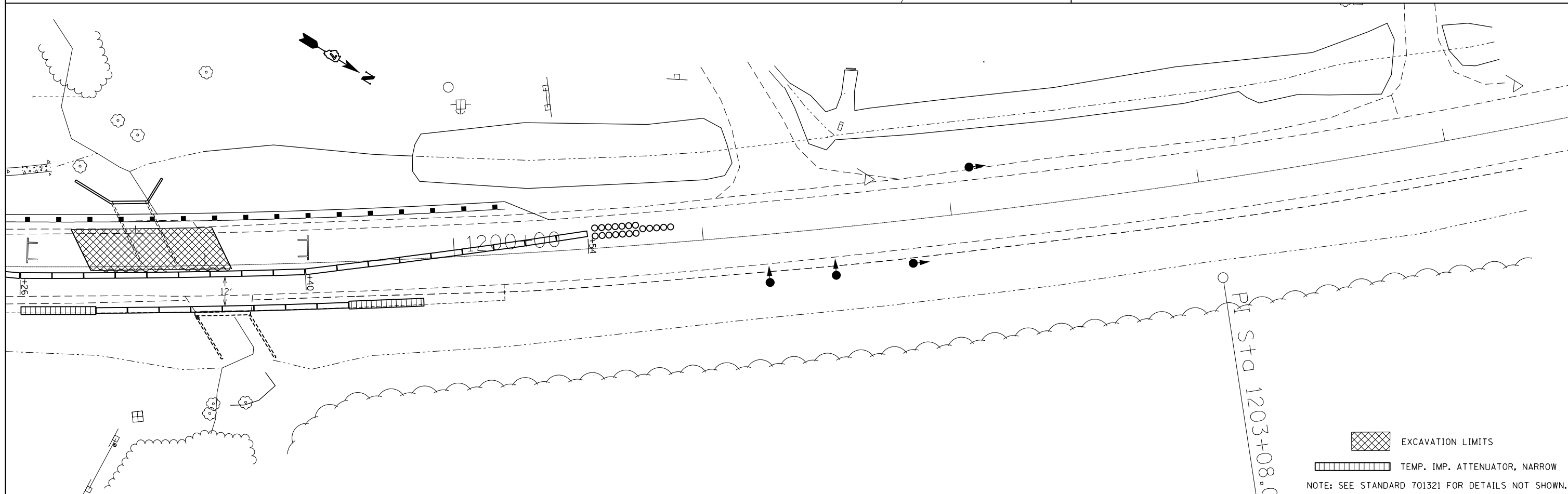
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PRE-STAGE NORTH CULVERT</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	19
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	



- \* TRANSITION - PIN CONCRETE BARRIER
- \*\* PIN CONCRETE BARRIER
- \*\*\* ANCHOR CONCRETE BARRIER

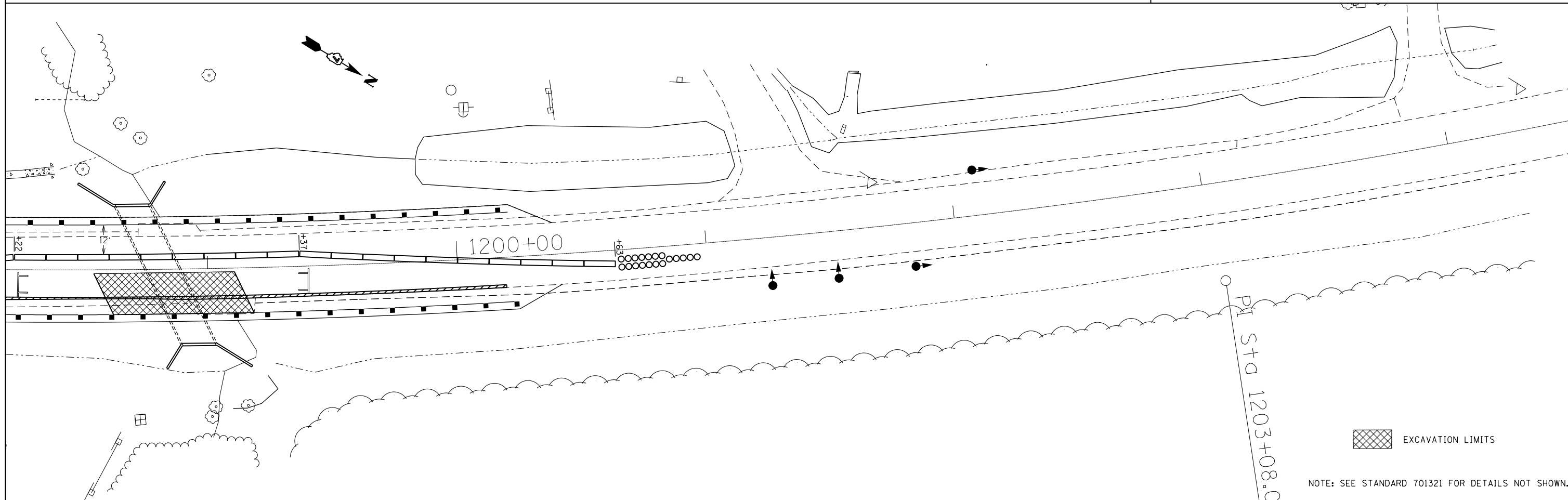
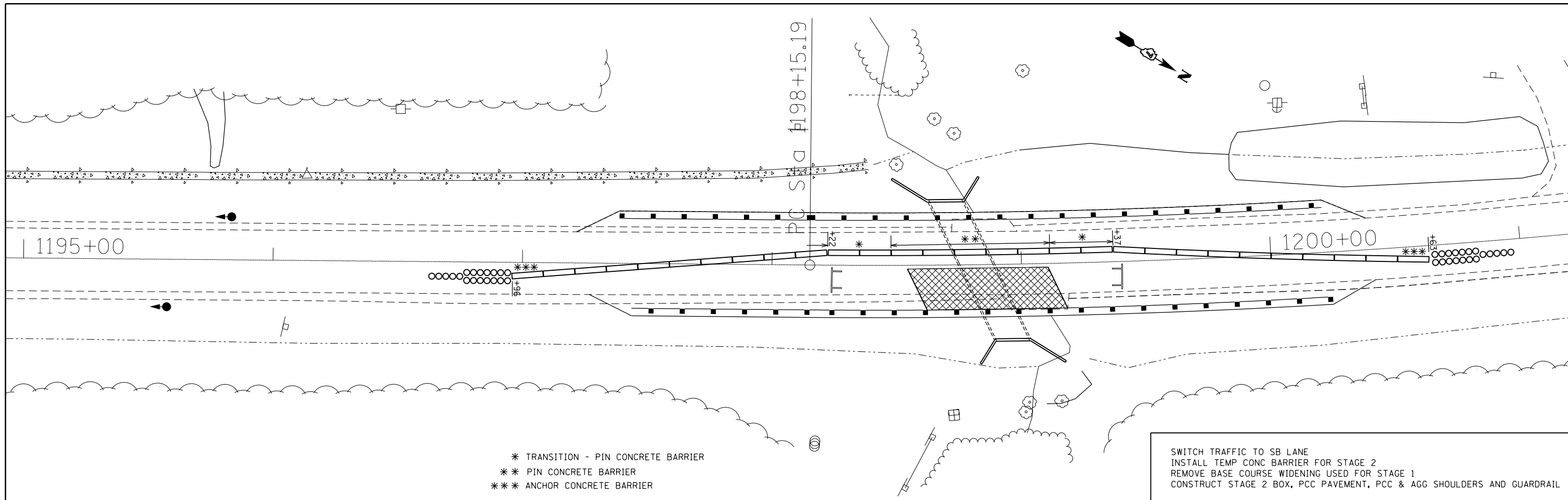


FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2015	DATE -	REVISED -

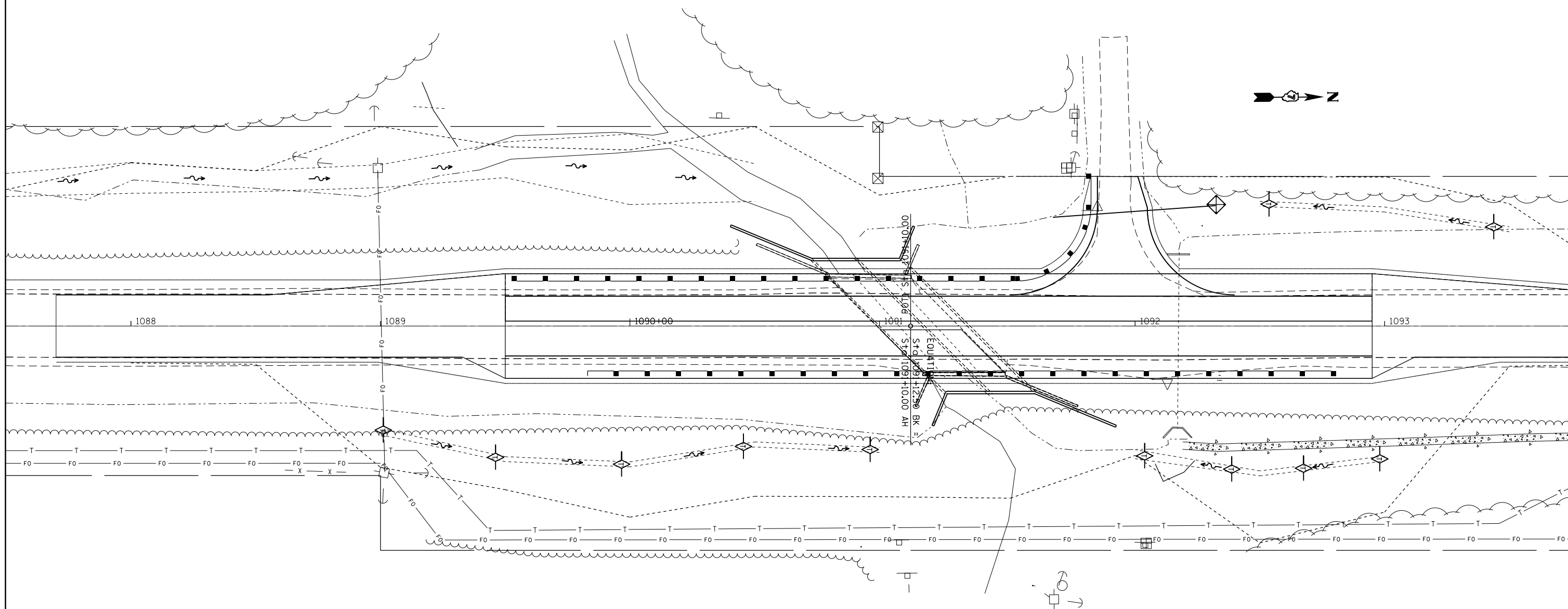
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

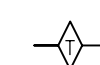


<b>STAGE 1 NORTH CULVERT</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74354	



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE 2 NORTH CULVERT</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74354				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/28/2015				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



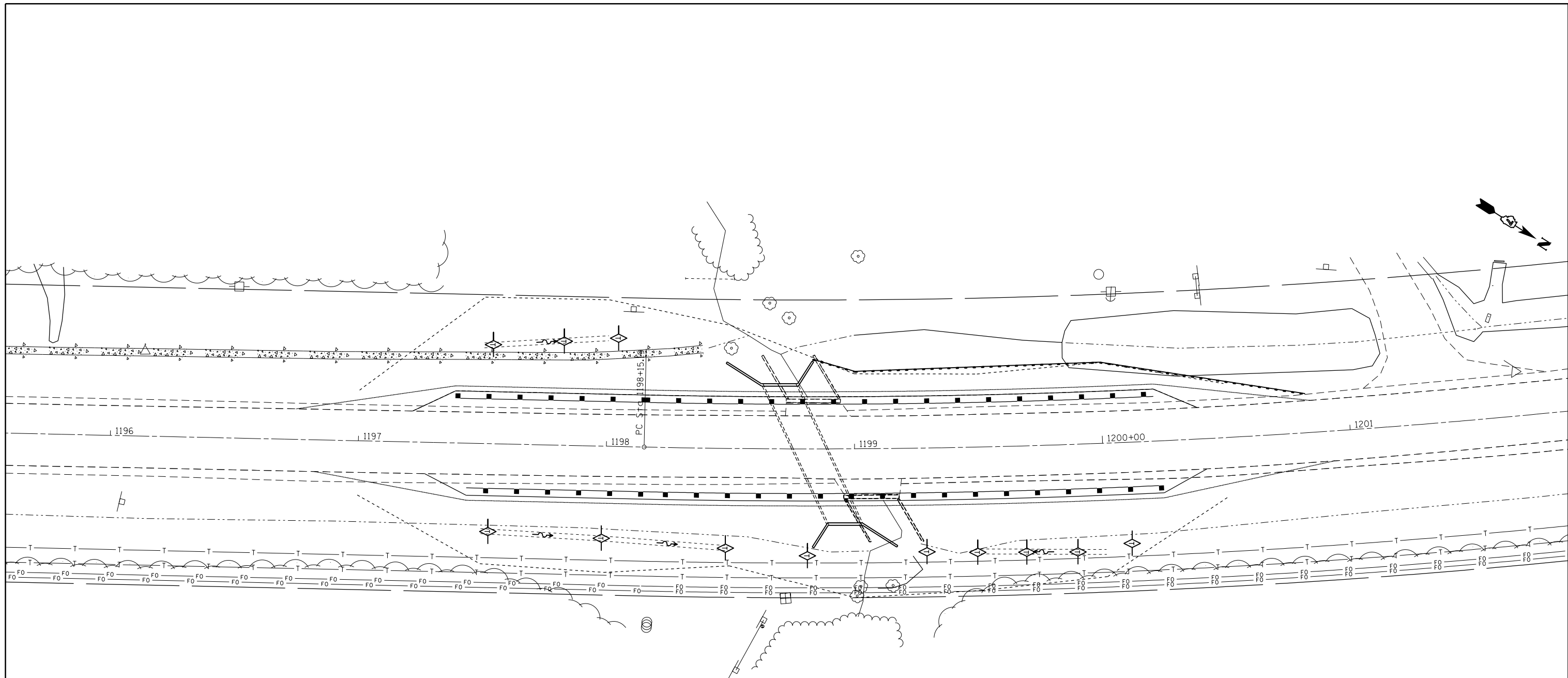
-  TEMPORARY DITCH CHECK
-  PERIMETER BARRIER
-  INLET PROTECTION

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\IL\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74354\Drawings\CAD\Sheets\D774354-sht-eros.dgn		CHECKED -	REVISED -
Default	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -
	PLOT DATE = 8/28/2015		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL SOUTH CULVERT</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	Edwards	72	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74354	



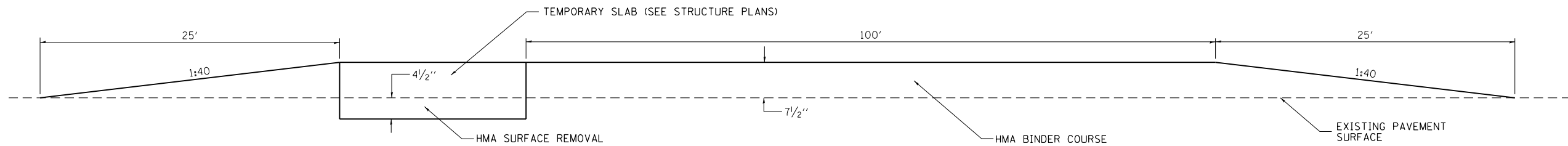
-  TEMPORARY DITCH CHECK
-  PERIMETER BARRIER

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74354\Drawings\CAD\Sheets\0774354-sht-eros.dgn		REVISED -	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/28/2015	DATE -	REVISED -

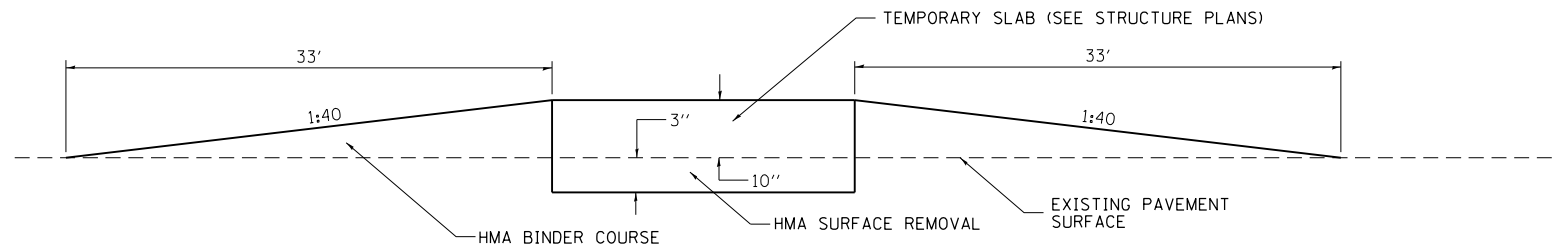
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL NORTH CULVERT</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

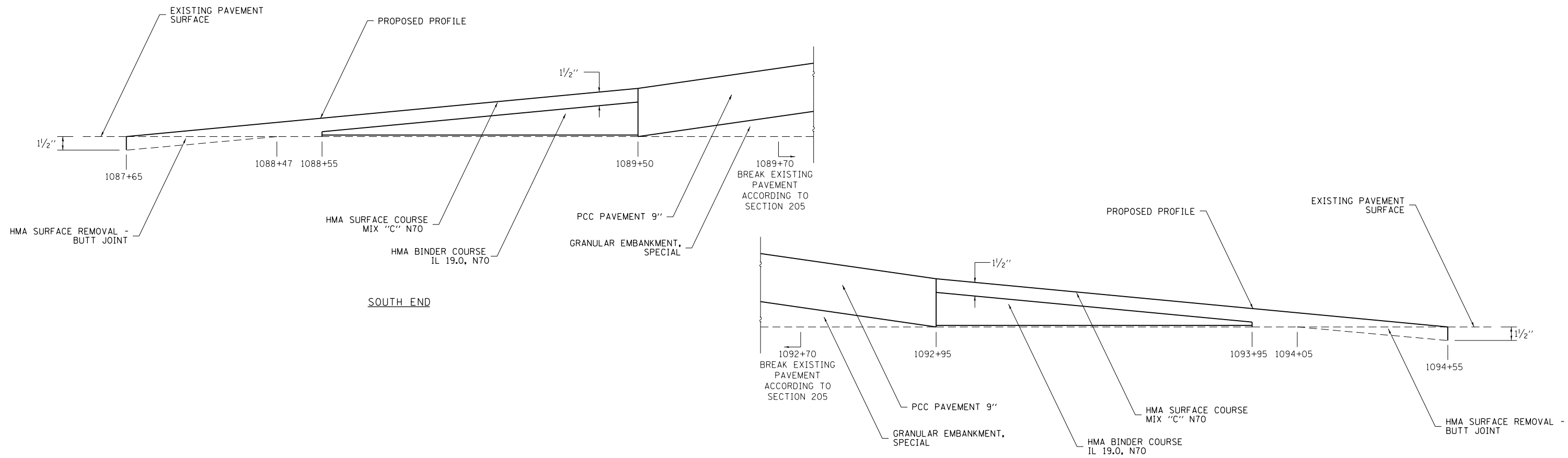
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	Edwards	72	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74354	



NORTHBOUND LANE PROFILE - STAGE 1 - SOUTH CULVERT



NORTHBOUND LANE PROFILE - STAGE 1 - NORTH CULVERT



PERMANENT PAVING DETAILS - SOUTH CULVERT

NORTH END

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74354\Drawings\CAD\Drawings\74354-sht-details.dwg		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 8/28/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	24
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	



Benchmark: Chiseled "a" on SE wingwall of S.N. 024-2002: Sta. 1091+12, 21.4' Rt., Elev. 415.39

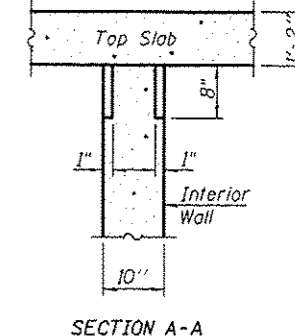
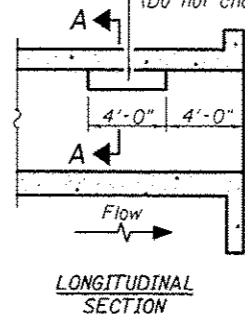
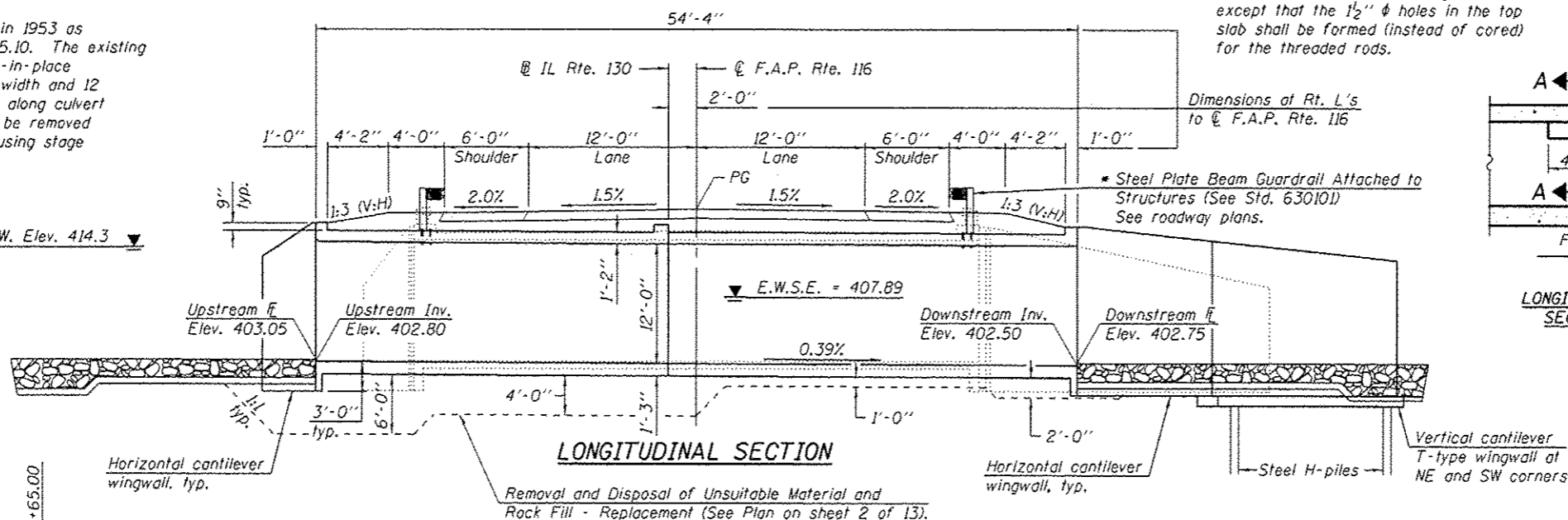
Existing Structure: S.N. 024-2002 built in 1953 as SBI Route 1, Section 7-BR at Sta. 1091+15.10. The existing structure consists of a double barrel cast-in-place concrete box culvert with a 10 foot clear width and 12 foot clear height for each barrel. Length along culvert is 57'-0 1/2". The existing structure is to be removed and replaced. Traffic will be maintained using stage construction.

No Salvage.

D.H.W. Elev. 414.3

\* Attachment shall be according to Case IV except that the 1/2"  $\phi$  holes in the top slab shall be formed (instead of cored) for the threaded rods.

Notch formed by rough finished board attached to and removed with form work, each interior wall. (Do not chamfer).



**PHOEBE NESTING  
SITE DETAILS**  
(Downstream End Only)

STATION 1091+15.10  
BUILT 201 BY  
STATE OF ILLINOIS  
F.A.P. RTE 116 - SEC. (7BR)B-1  
LOADING HL-93  
STRUCTURE NO. 024-2008

**NAME PLATE**  
See Std. 515001

- INDEX OF SHEETS**
- 1 - General Plan & Elevation
  - 2 - General Data
  - 3 - Stage Construction Details
  - 4 - Temporary Soil Retention System
  - 5 - Temporary Concrete Barrier
  - 6 - Culvert Details - Top Slab
  - 7 - Culvert Details - Bottom Slab
  - 8-10 - Culvert Details
  - 11 - HP Pile Details
  - 12 - Bar Splicer Assembly Details
  - 13 - Soil Boring Logs

**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (piles)

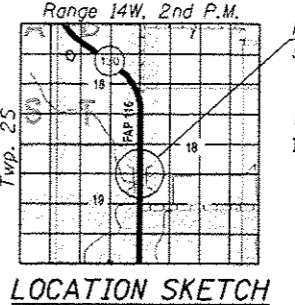
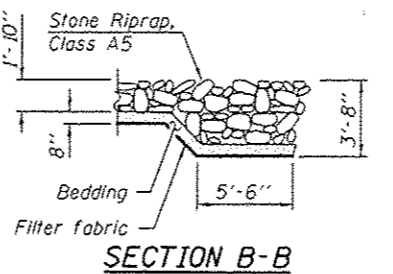
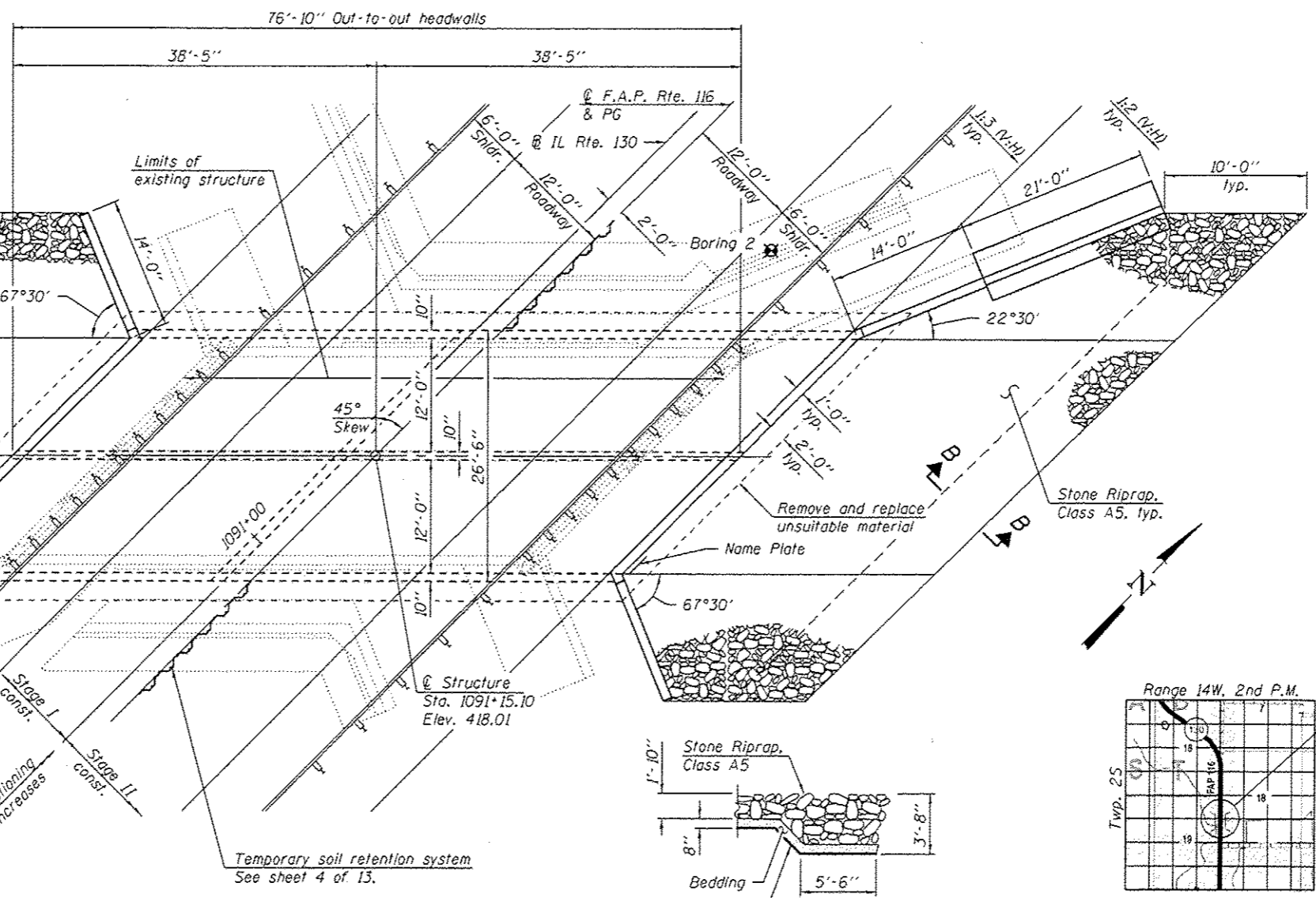
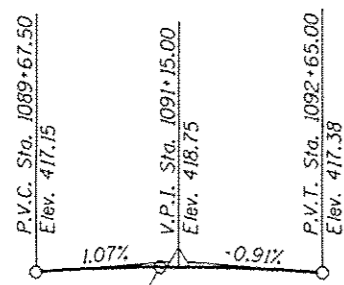
**LOADING HL-93**

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

**GENERAL PLAN & ELEVATION  
IL. RTE. 130 OVER STREAM  
F.A.P. RTE. 116 - SEC. (7BR)B-1  
EDWARDS COUNTY  
STATION 1091+15.10  
STRUCTURE NO. 024-2008**

Station equation:  
Sta. 1091+12.50 (back) =  
Sta. 1091+10.00 (ahead)

**PROFILE GRADE**  
(Along  $\phi$  F.A.P. Rte. 116)



EXPIRES 11-30-2016

DESIGNED: <i>John A. Puzzy</i>	EXAMINED: <i>John F. Kelly</i>	DATE: 9-21-2015
CHECKED: <i>Michael B. Mossman</i>	PASSED: <i>John F. Kelly</i>	REVISOR: _____
DRAWN: MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGE DESIGN	REVISION: _____
CHECKED: JMD/JBG/GR	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISION: _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	25
			CONTRACT NO. 74354	
ILLINOIS FED. AID PROJECT				

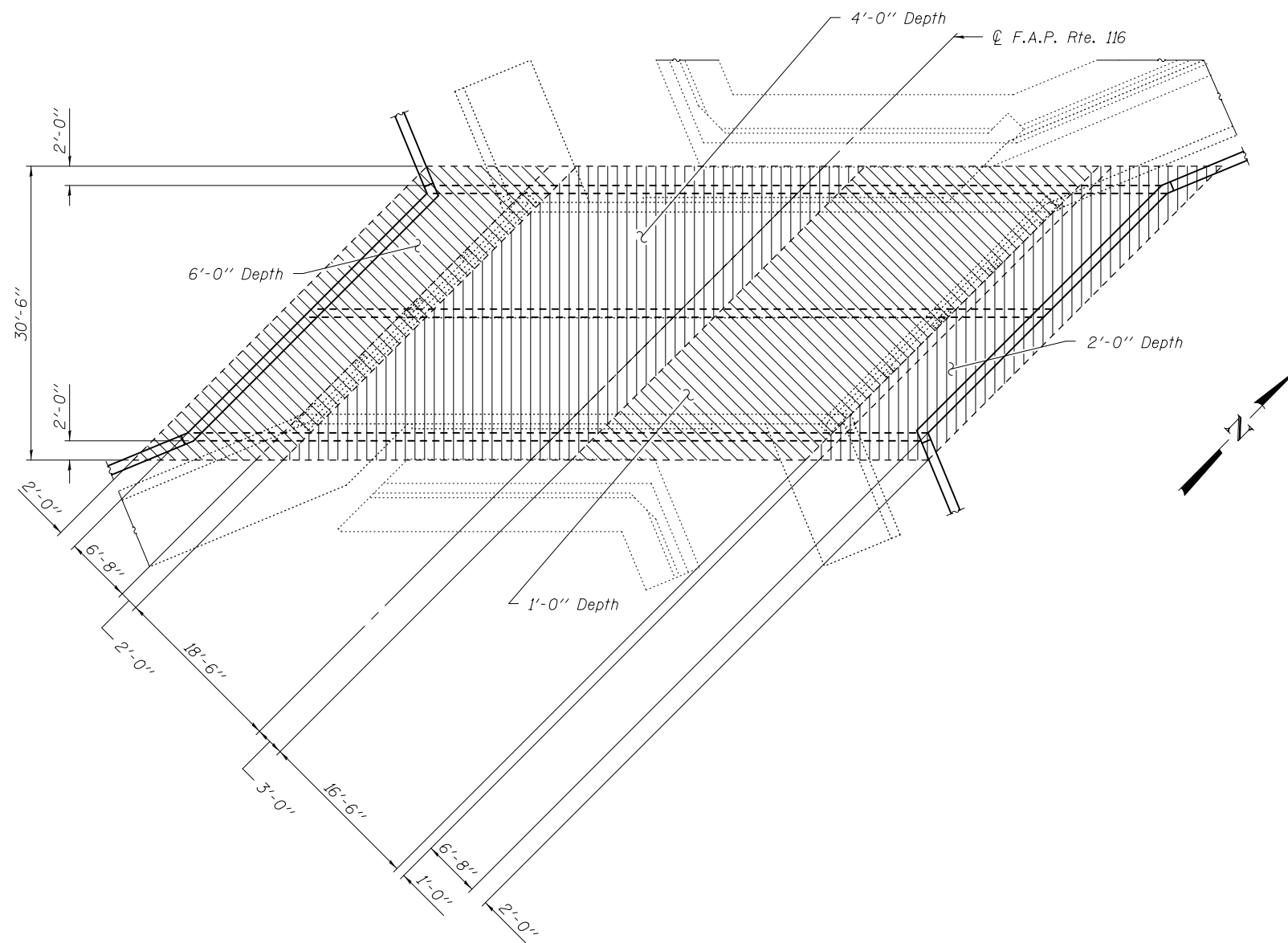
9/10/2015 9:13:34 AM

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
 Precast alternate not allowed.  
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before stage I removal to ensure the remaining portion will not be prematurely damaged.  
 The limits of removal and disposal of unsuitable material are shown without considering a 1:1 slope at all exterior sides. The quantity includes a 1:1 slope as shown on the Longitudinal Section on sheet 1 of 13.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	336
Stone Riprap, Class A5	Sq. Yd.	265
Filter Fabric	Sq. Yd.	265
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	390
Concrete Structures	Cu. Yd.	44.6
Concrete Superstructure	Cu. Yd.	20.5
Reinforcement Bars, Epoxy Coated	Pound	113,060
Bar Splicers	Each	181
Furnishing Steel Piles HP10x42	Foot	350
Driving Piles	Foot	350
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	318.3
Rock Fill - Replacement	Ton	601.2
Temporary Soil Retention System	Sq. Ft.	819



**PLAN**  
 (Showing limits of Removal and Disposal of Unsuitable Material and Rock Fill - Replacement).

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1060	188	225	412.2	0.3	0.1	412.5	412.3
Design	50	1810	230	276	414.3	1.2	0.7	415.5	415.0
Base	100	2160	237	283	414.6	1.6	0.9	416.2	415.5
Overtopping Exist.	80	2060	235	-	414.5	1.5	-	416.0	-
Overtopping Prop.	205	2500	-	288	414.8	-	1.3	-	416.1
Max. Calc.	500	3050	240	288	415.2	1.3	1.3	416.5	416.5

Existing Low Grade Elev. 415.97 @ Sta. 1091+00.00  
 Proposed Low Grade Elev. 416.03 @ Sta. 1099+50.00  
 Existing 10-year velocity = 5.63 ft./sec.  
 Proposed 10-year velocity = 4.71 ft./sec.

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI  
 CHECKED - JOSUE D. ORTIZ-VARELA  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.M.O. / J.O.V. / G.R.A.

EXAMINED  
 PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

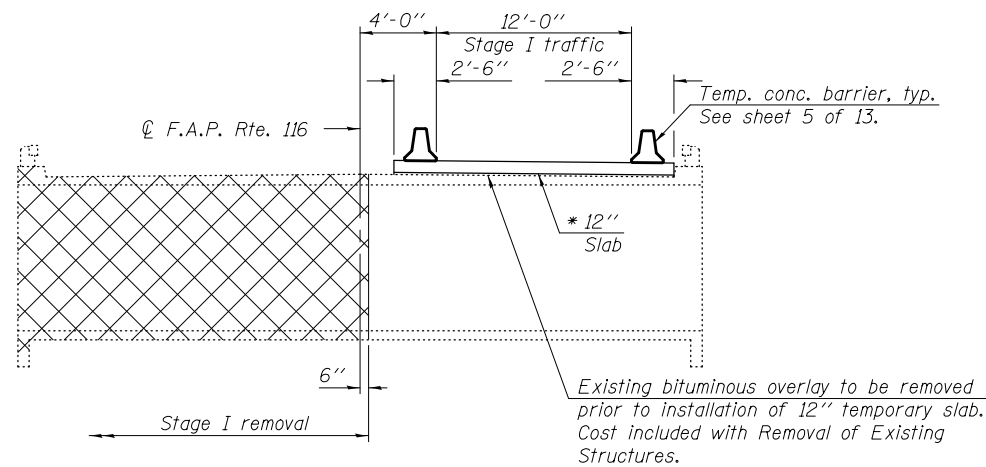
DATE - SEPTEMBER 21, 2015  
 REVISED  
 REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

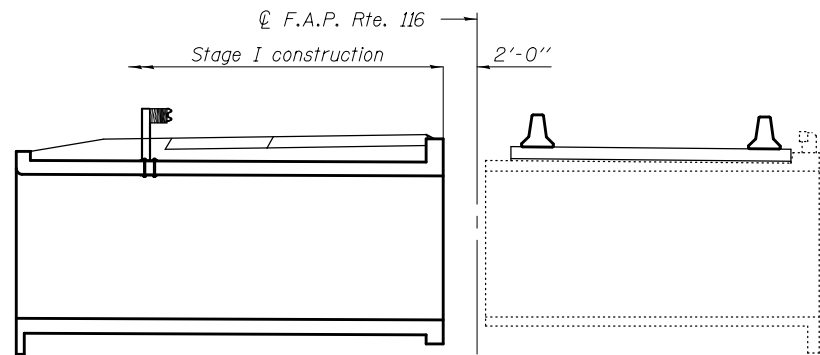
**GENERAL DATA  
 STRUCTURE NO. 024 - 2008**

SHEET NO. 2 OF 13 SHEETS

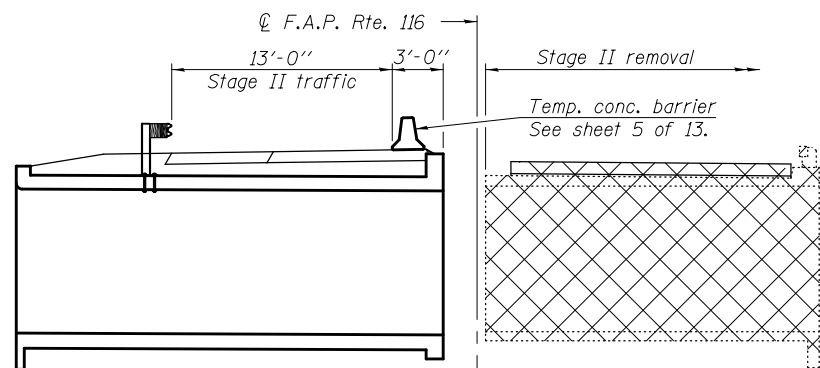
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	26
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



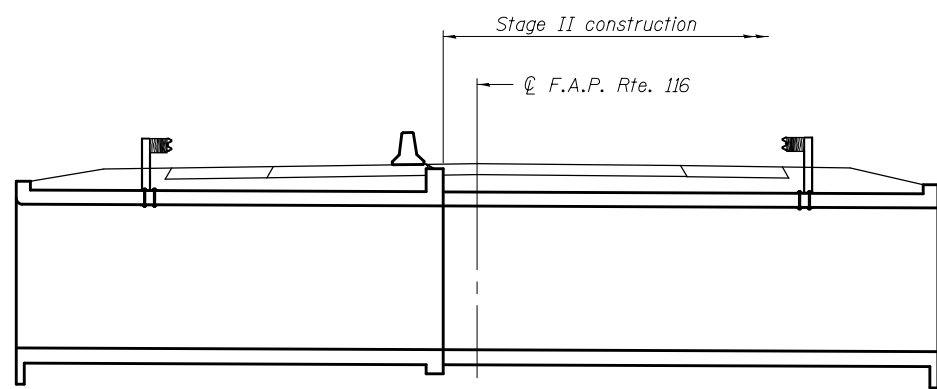
**STAGE I REMOVAL**



**STAGE I CONSTRUCTION**



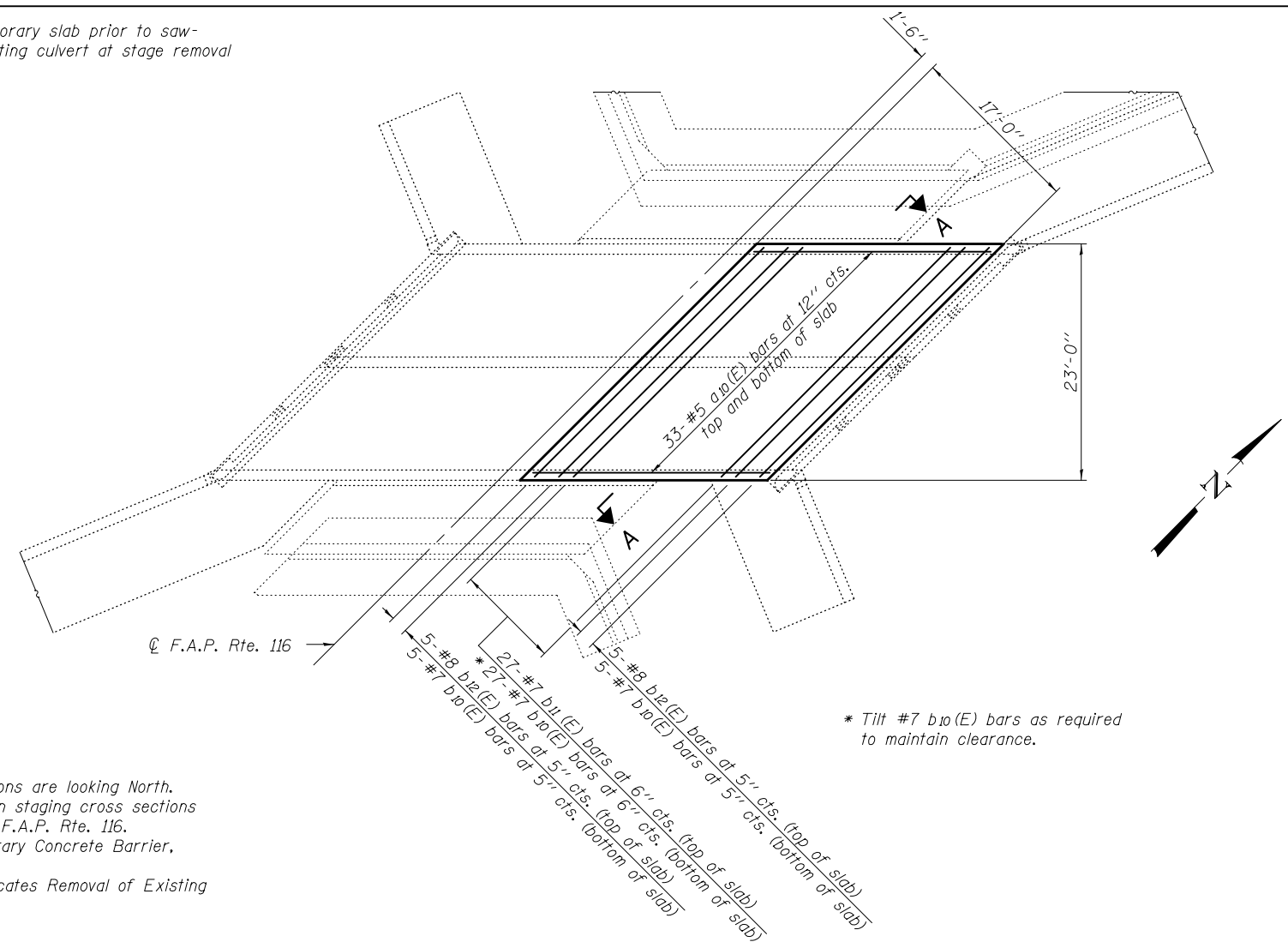
**STAGE II REMOVAL**



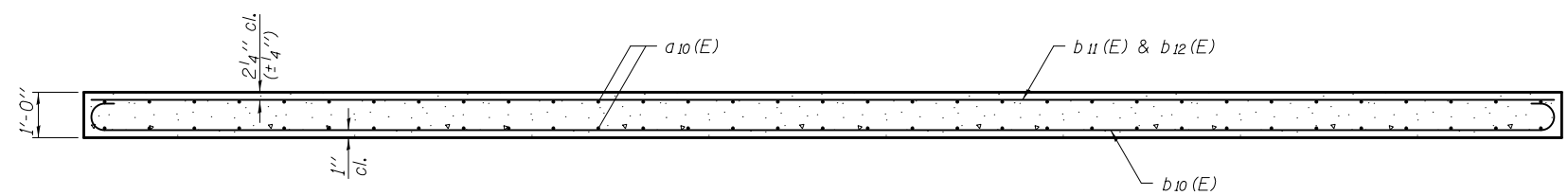
**STAGE II CONSTRUCTION**

\* Install temporary slab prior to saw-cutting existing culvert at stage removal line.

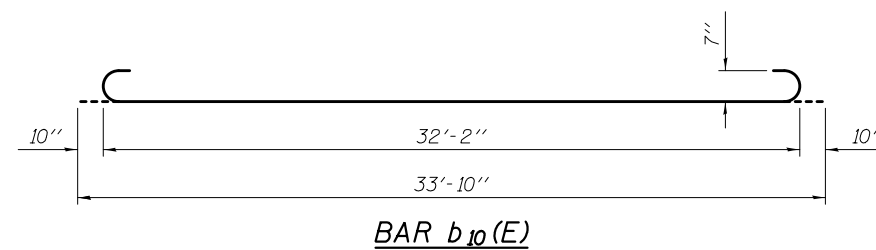
Notes:  
 All staging cross sections are looking North.  
 Horizontal dimensions in staging cross sections are at right angles to  $\text{C.F.A.P. Rte. 116}$ .  
 For quantity of Temporary Concrete Barrier, see roadway plans.  
 Crosshatched area indicates Removal of Existing Structures.



**TEMPORARY SLAB PLAN**



**SECTION A-A**



**BAR  $b_{10}(E)$**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$a_{10}(E)$	66	#5	23'-6"	—
$b_{10}(E)$	37	#7	33'-10"	U
$b_{11}(E)$	27	#7	32'-2"	—
$b_{12}(E)$	10	#8	32'-2"	—
Concrete Superstructure			Cu. Yd.	20.5
Reinforcement Bars, Epoxy Coated			Pound	6,810

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI  
 CHECKED - JOSUE D. ORTIZ-VARELA  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.M.O. / J.O.V. / G.R.A.

EXAMINED  
 PASSED  
*James F. J...*  
 ENGINEER OF BRIDGE DESIGN  
*Carl...*  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 21, 2015  
 REVISED —  
 REVISED —

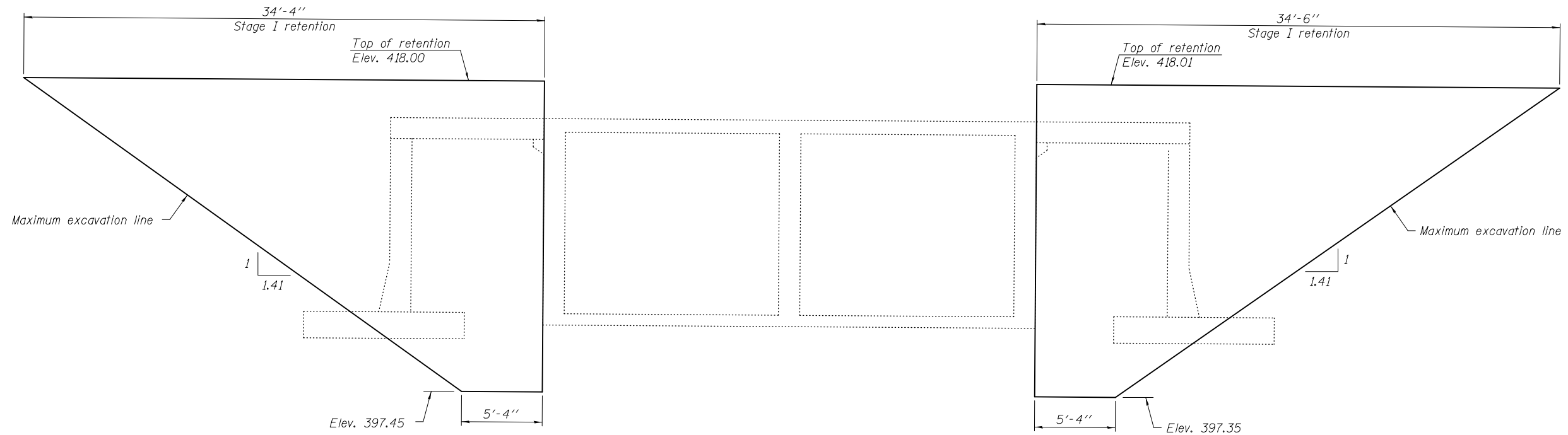
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 024 - 2008**

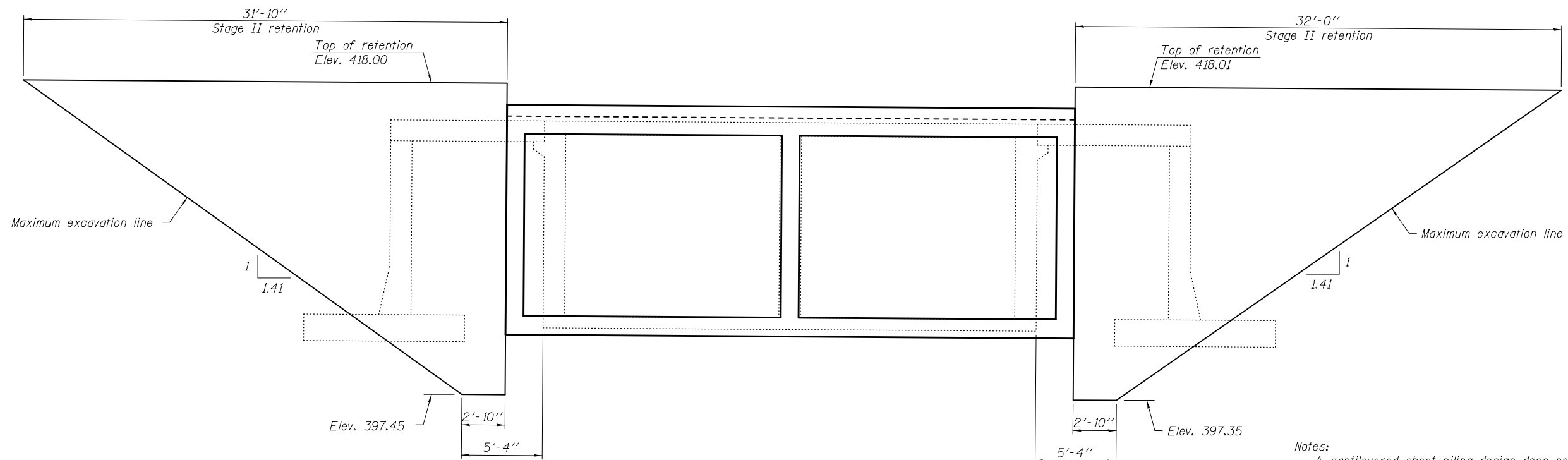
SHEET NO. 3 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	27
CONTRACT NO. 74354				

ILLINOIS FED. AID PROJECT



**STAGE I SOIL RETENTION SYSTEM**  
(Looking West)



**STAGE II SOIL RETENTION SYSTEM**  
(Looking West)

Notes:  
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.  
 The horizontal dimensions shown for the temporary soil retention systems are given along  $\varnothing$  F.A.P. Rte. 116.

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	 ENGINEER OF BRIDGE DESIGN  ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - MICHAEL B. MOSSMAN		REVISED -
CHECKED - J.M.O. / J.O.V. / G.R.A.		REVISED -

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

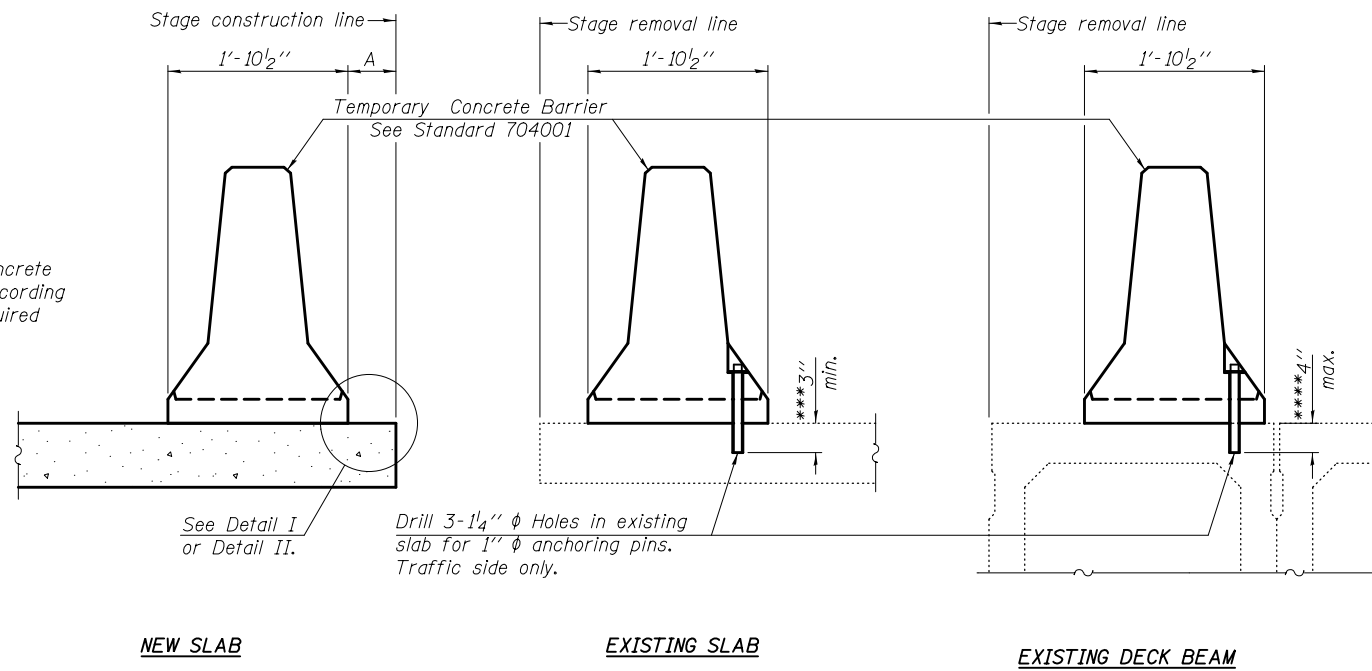
**TEMPORARY SOIL RETENTION SYSTEM**  
**STRUCTURE NO. 024 - 2008**

SHEET NO. 4 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	28
CONTRACT NO. 74354				

ILLINOIS FED. AID PROJECT

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

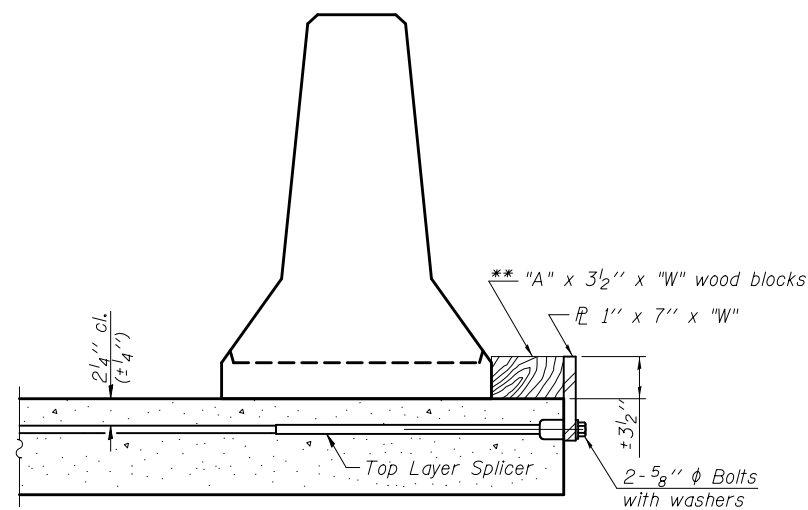
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" diameter bolts screwed to coupler at approximate center of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" diameter Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.

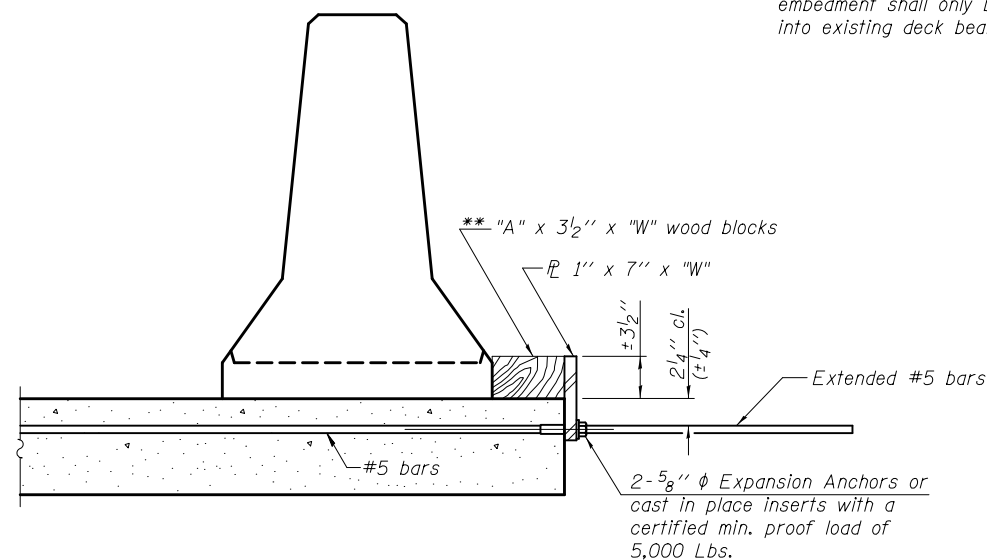
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete.  
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

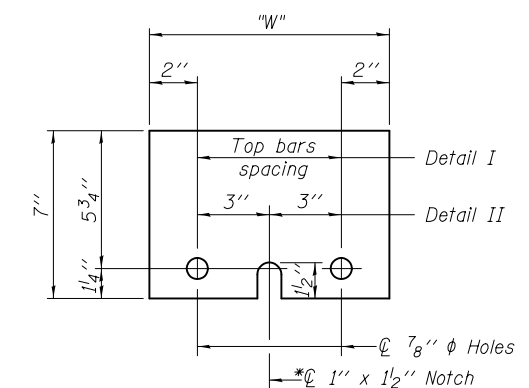
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1" x 7" x "W"**

\* Required only with Detail II

**RETAINER ASSEMBLY**

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

SDATES \$TIMES

R-27

1-12-15

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - J.M.O. / J.O.V. / G.R.A.	

DATE - SEPTEMBER 21, 2015

REVISOR: *Jaime F. J. [Signature]*  
ENGINEER OF BRIDGE DESIGN

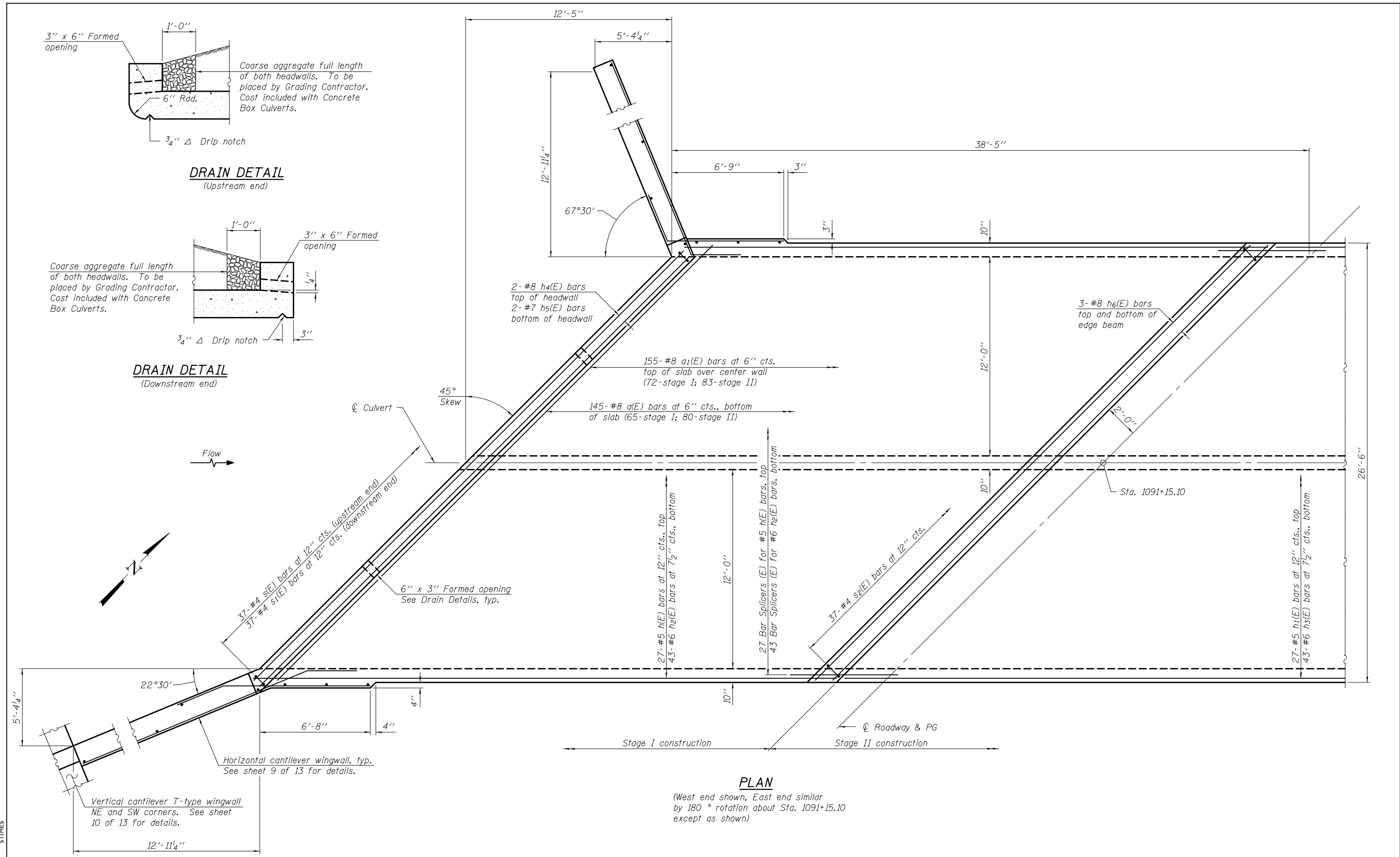
REVISOR: *Carl [Signature]*  
ACTING ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 024 - 2008

SHEET NO. 5 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	29
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



**DRAIN DETAIL**  
(Upstream end)

**DRAIN DETAIL**  
(Downstream end)

**PLAN**

(West end shown, East end similar by 180 ° rotation about Sta. 1091+15.10 except as shown)

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J...</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl...</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN		REVISOR -
CHECKED - J.M.O. / J.O.V. / G.R.A.		

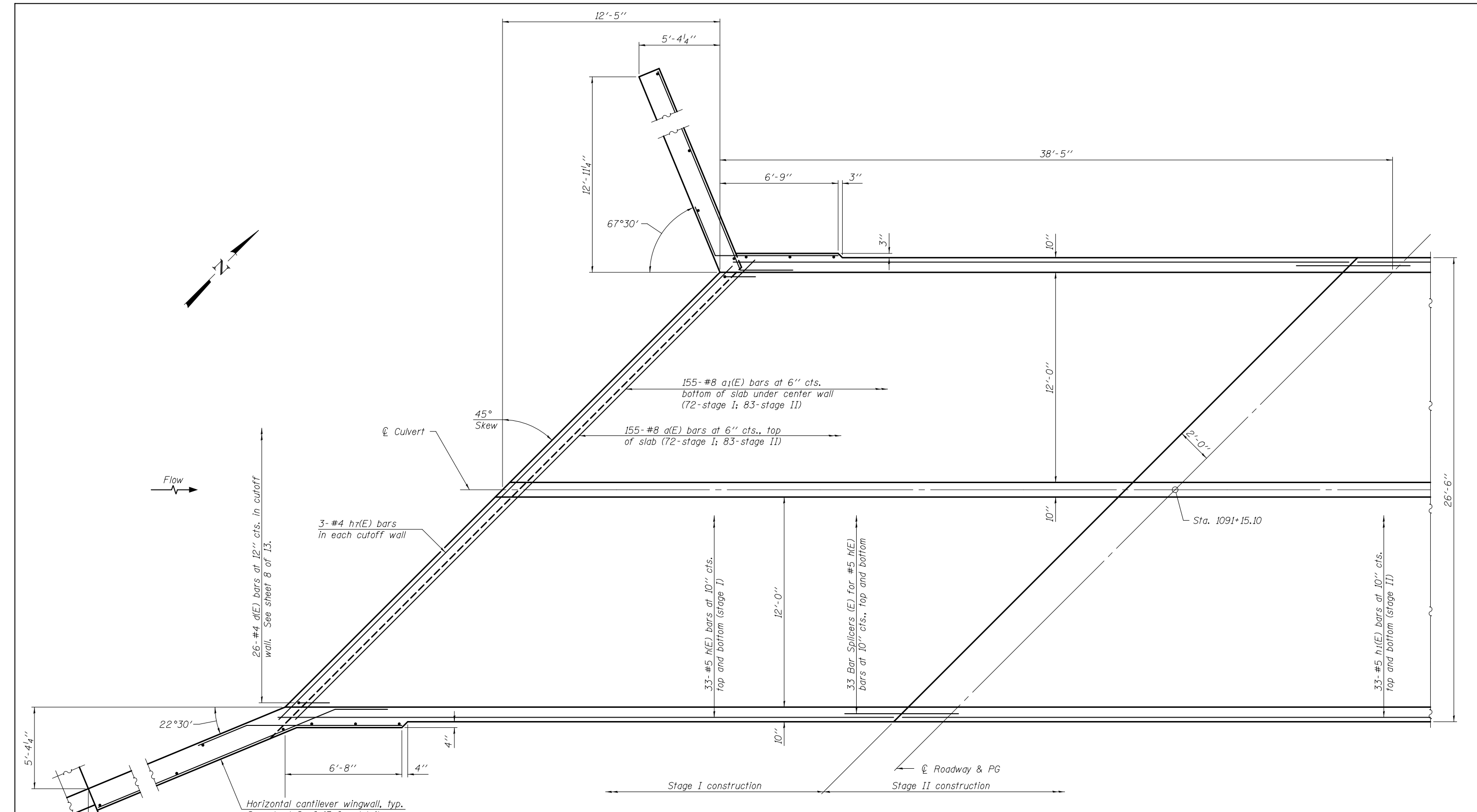
ACTING ENGINEER OF BRIDGES AND STRUCTURES

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

**CULVERT DETAILS - TOP SLAB**  
**STRUCTURE NO. 024 - 2008**

F.A.P. RTE. 116	SECTION (7BR)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 30
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				

SHEET NO. 6 OF 13 SHEETS



**PLAN**  
 (West end shown, East end similar by 180° rotation about Sta. 1091+15.10 except as shown)

SDATES \$TIMES

DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Joanne F. J...</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl...</i>	REVISD -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISD -
CHECKED - J.M.O. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - BOTTOM SLAB  
 STRUCTURE NO. 024 - 2008**

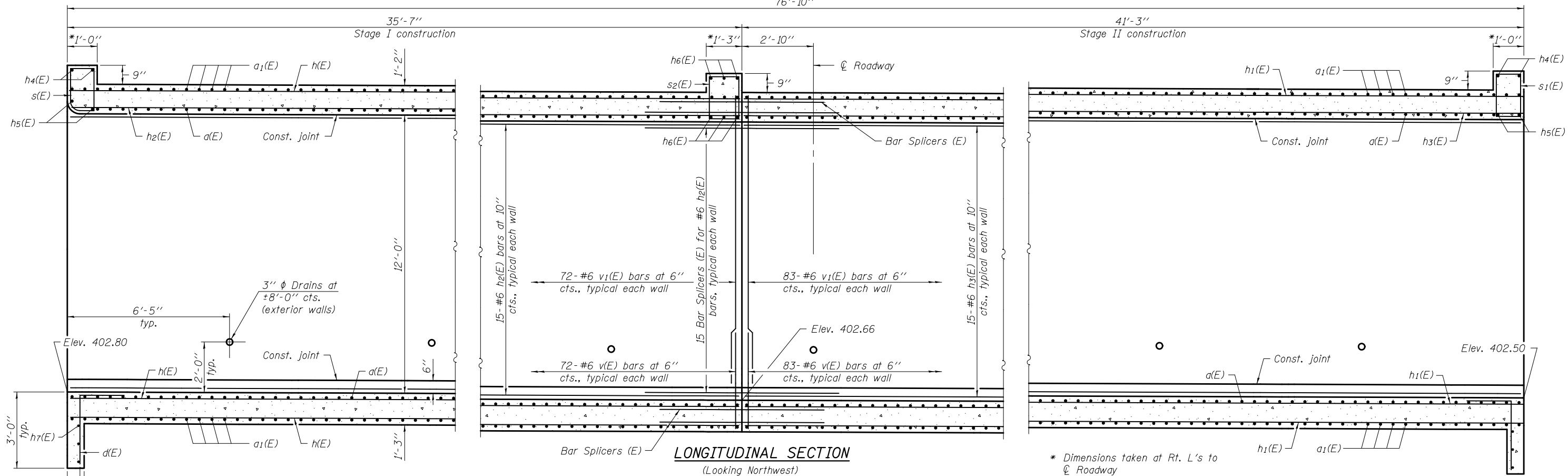
SHEET NO. 7 OF 13 SHEETS

F.A.P. RTE. 116	SECTION (7BR)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 31
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				

76'-10"

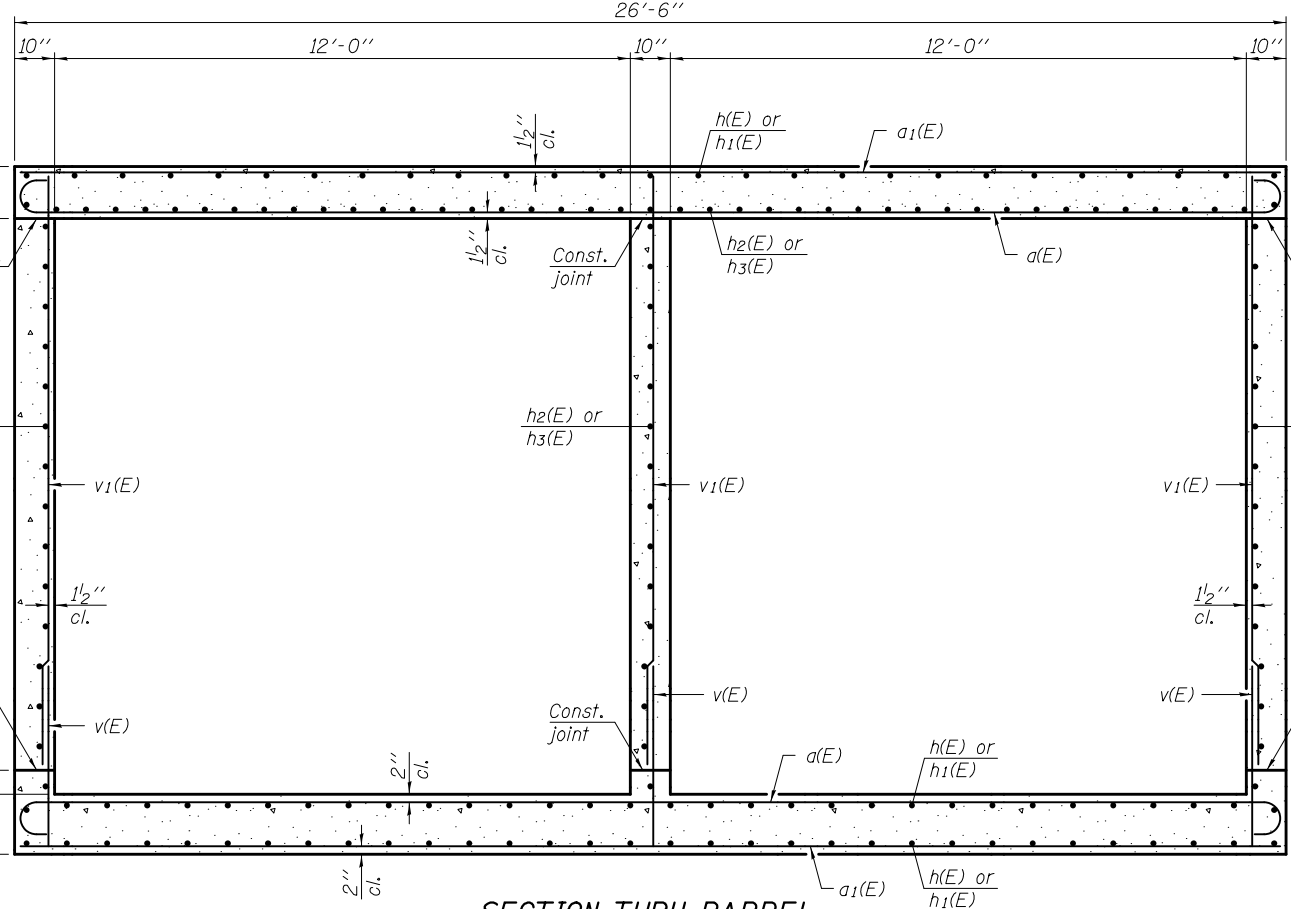
35'-7"  
Stage I construction

41'-3"  
Stage II construction



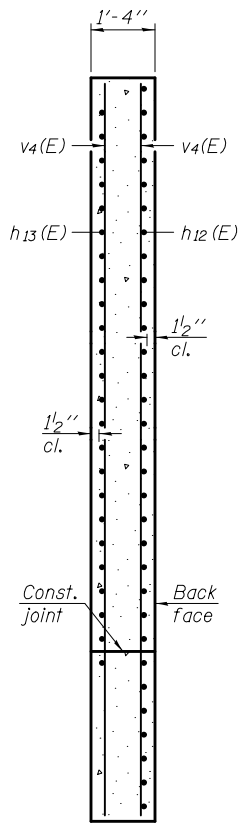
**LONGITUDINAL SECTION**  
(Looking Northwest)

\* Dimensions taken at Rt. L's to  
⌀ Roadway

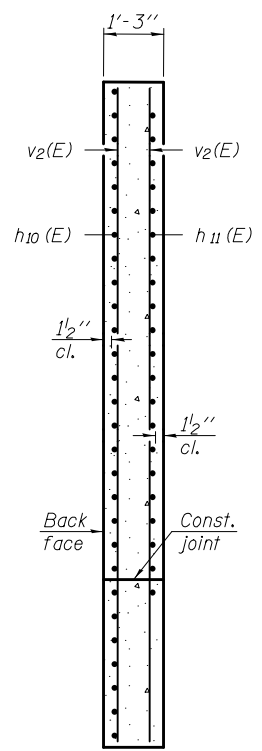


**SECTION THRU BARREL**

(Horizontal dimensions are at Rt. L's unless otherwise noted)



**SECTION B-B**



**SECTION A-A**

SDATES \$TIMES

DESIGNED -	JOSHUA M. ODORIZZI
CHECKED -	JOSUE D. ORTIZ-VARELA
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	J.M.O. / J.O.V. / G.R.A.

EXAMINED	<i>Jaime F. J...</i>	DATE -	SEPTEMBER 21, 2015
PASSED	<i>Carl...</i>	REVISED	---
	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	---

DATE -	SEPTEMBER 21, 2015
REVISED	---
REVISED	---

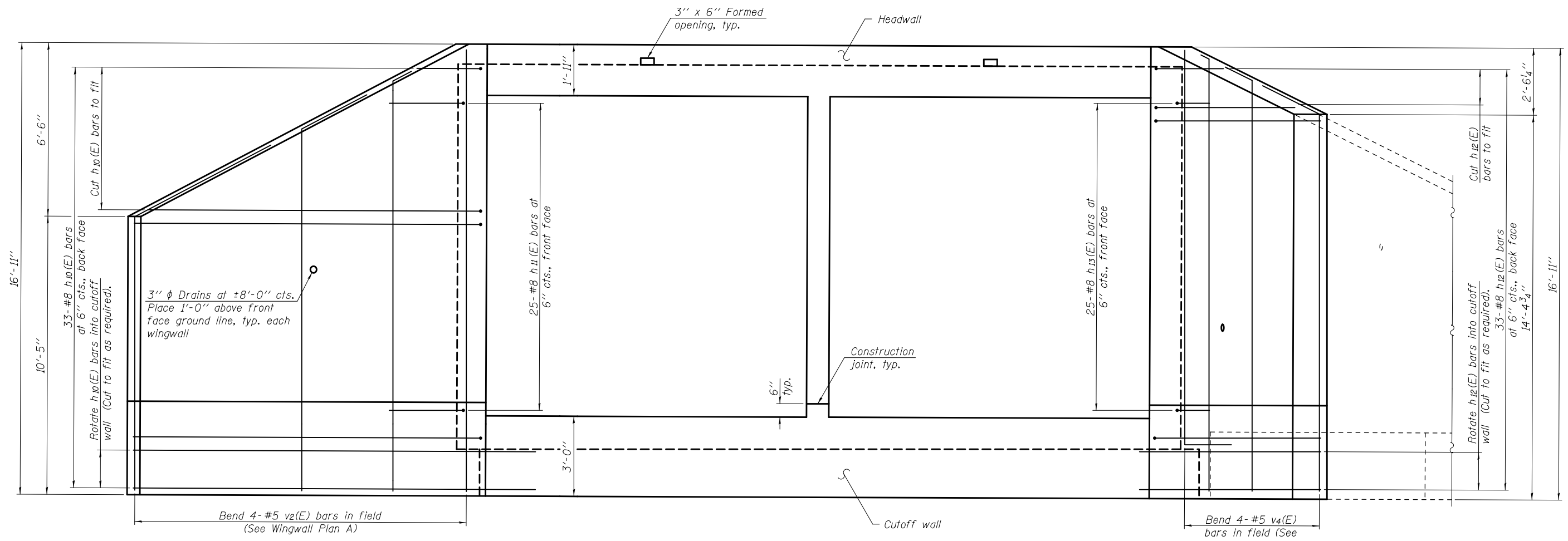
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS**  
**STRUCTURE NO. 024 - 2008**

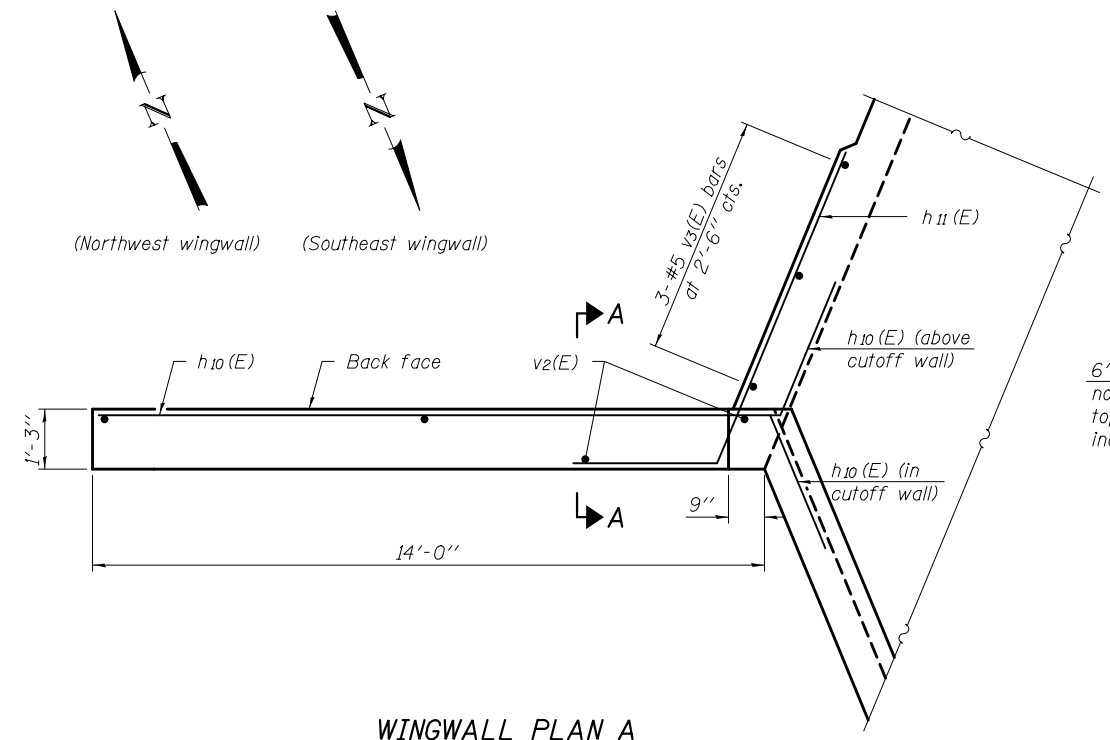
SHEET NO. 8 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR1B-1)	EDWARDS	72	32
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				

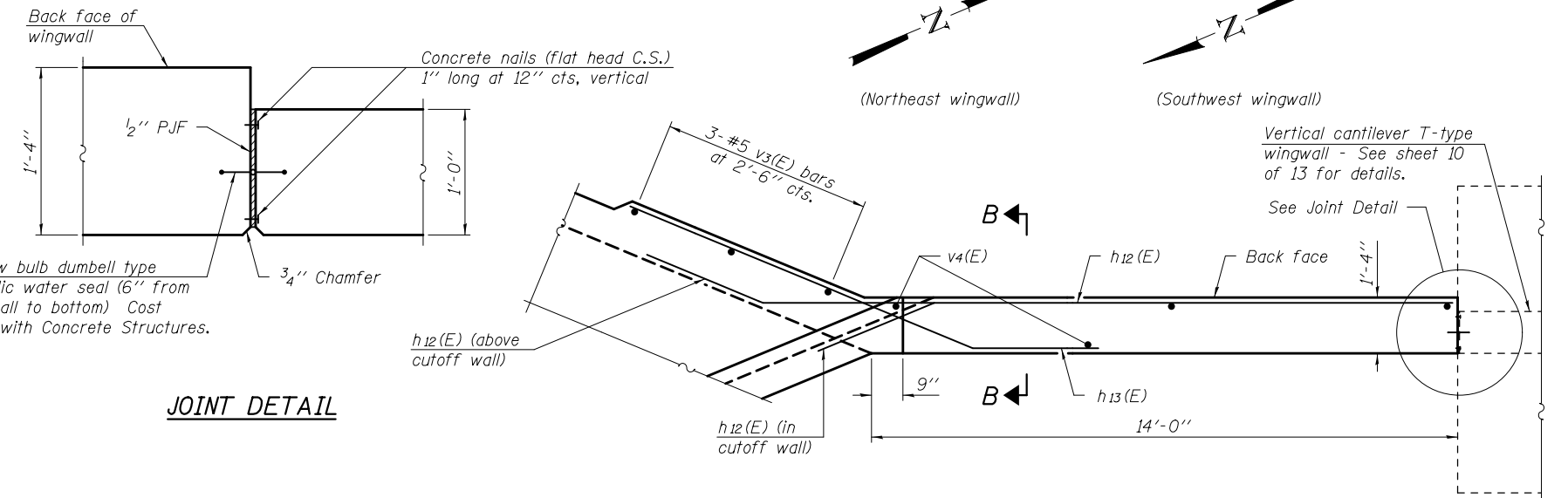




**END ELEVATION**



**WINGWALL PLAN A**  
(Northwest and Southeast wingwalls)



**WINGWALL PLAN B**  
(Northeast and Southwest wingwalls)

**Notes:**  
 A distance of half the length of the wingwall, but not less than six feet of the barrel, shall be poured monolithically with the wingwalls.  
 See sheet 8 of 13 for Section A-A and Section B-B.

SDATES \$TIMES

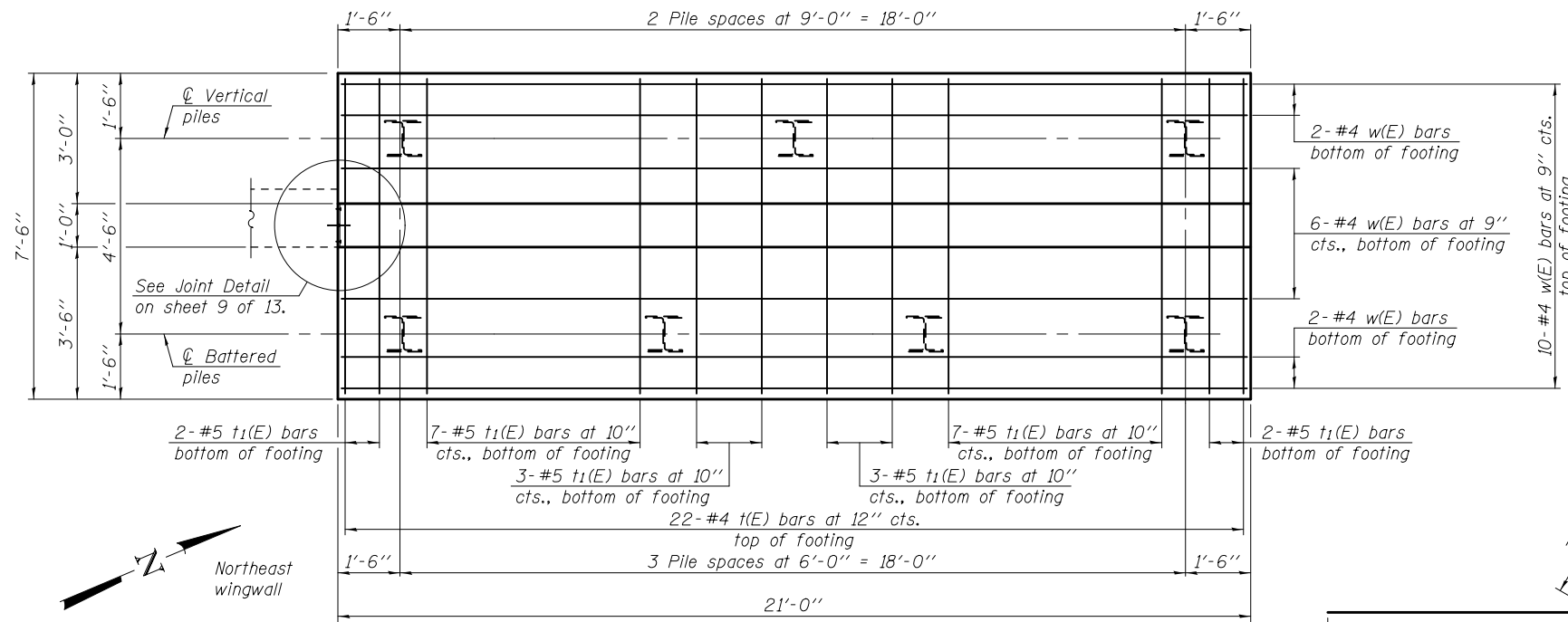
DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. Joffe</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl Rupp</i>	REVISER -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - J.M.O. / J.O.V. / G.R.A.		

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

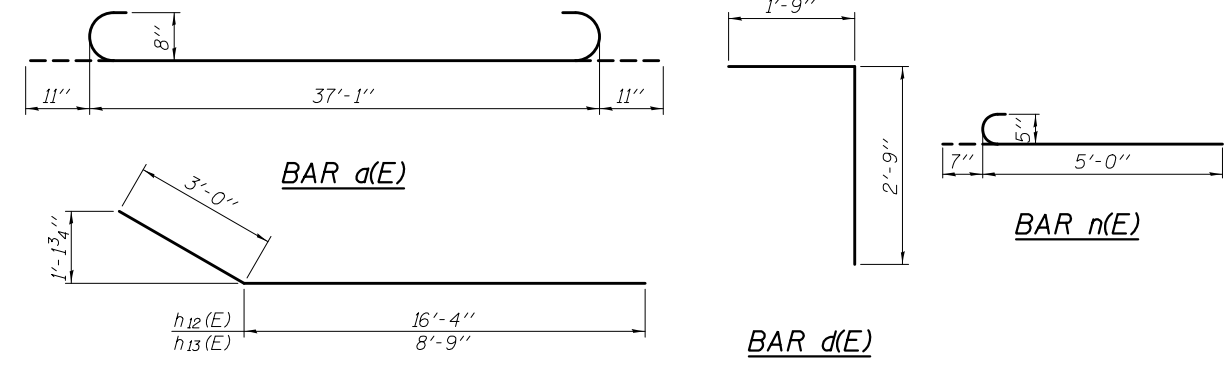
**CULVERT DETAILS**  
**STRUCTURE NO. 024 - 2008**

SHEET NO. 9 OF 13 SHEETS

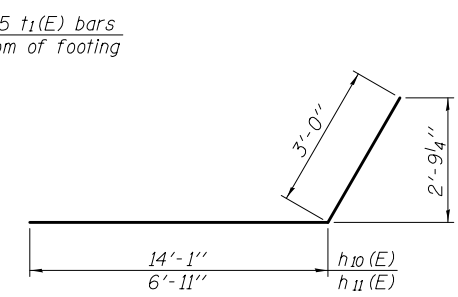
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	33
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



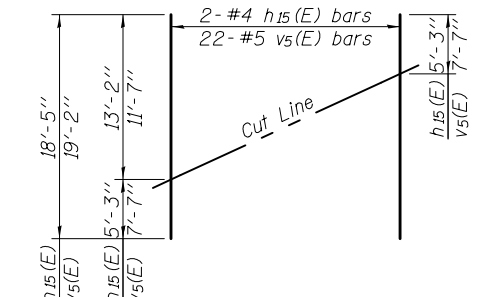
**VERTICAL CANTILEVER T-TYPE WINGWALL PLAN**  
(Showing footing reinforcement and piles)



**BARS h<sub>12</sub>(E) & h<sub>13</sub>(E)**



**BARS h<sub>10</sub>(E) & h<sub>11</sub>(E)**



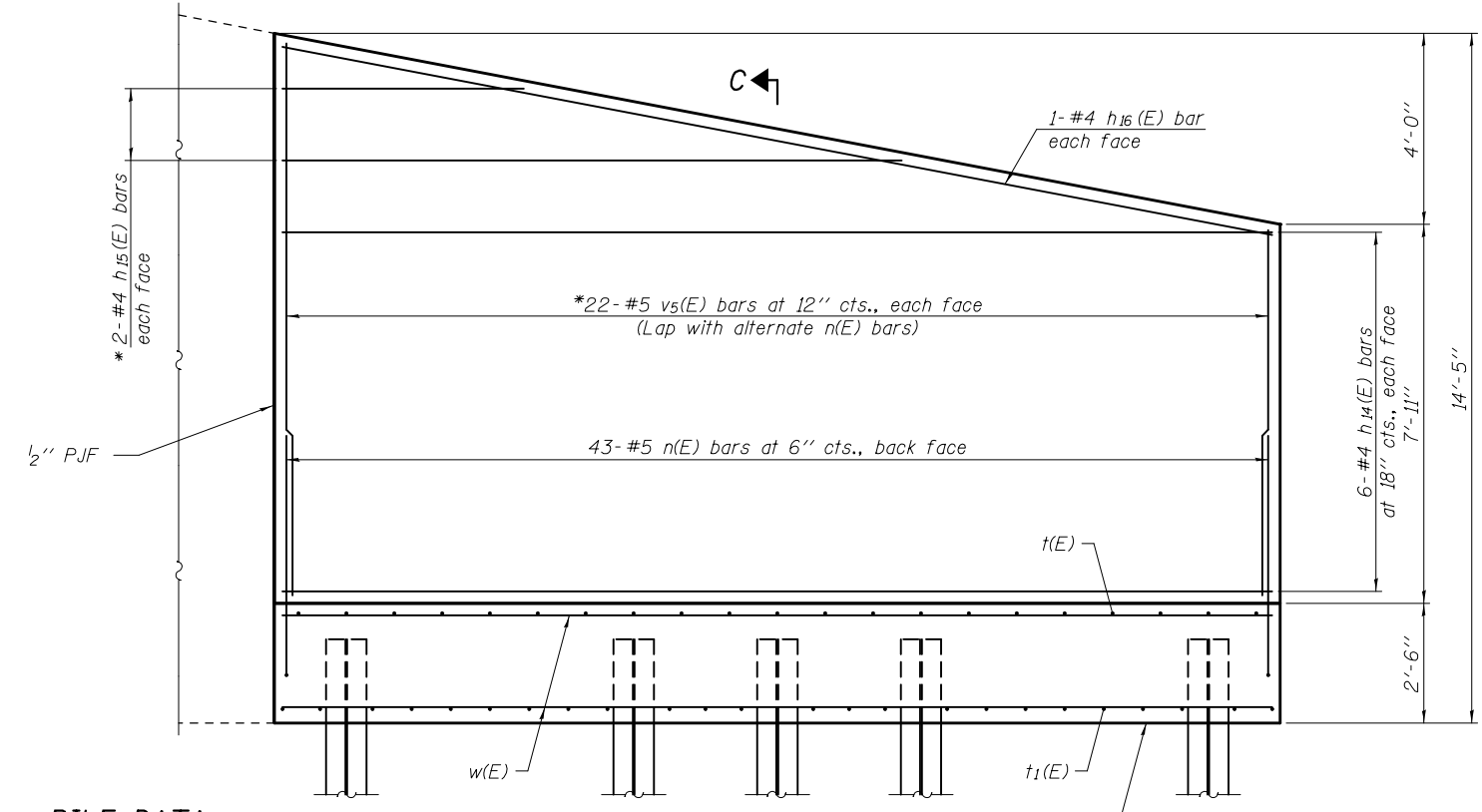
**FIELD CUTTING DIAGRAM**

\* Order h<sub>15</sub>(E) and vs(E) bars full length. Cut as shown and use remainder of bars in opposite face.

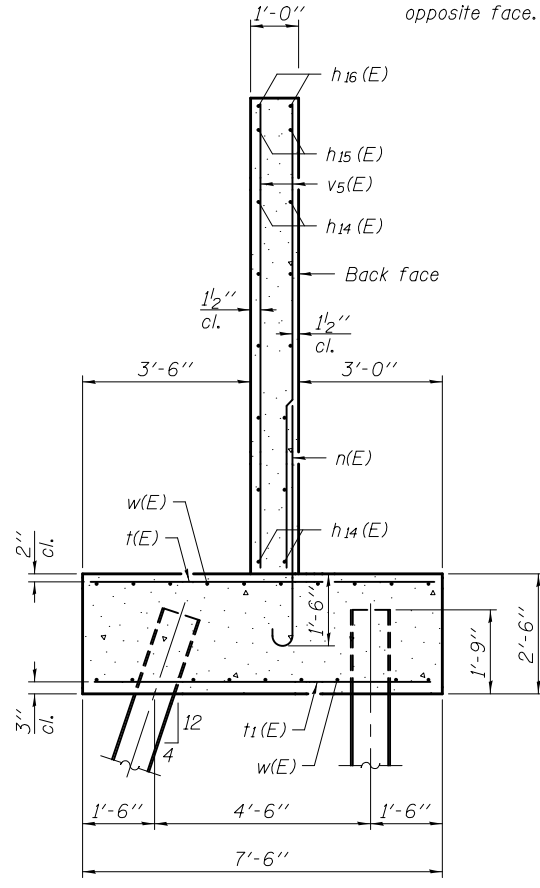
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	300	#8	38'-11"	U
a <sub>1</sub> (E)	310	#8	36'-11"	U
d(E)	52	#4	4'-6"	Γ
h(E)	93	#5	35'-2"	—
h <sub>1</sub> (E)	93	#5	40'-10"	—
h <sub>2</sub> (E)	88	#6	35'-2"	—
h <sub>3</sub> (E)	88	#6	40'-10"	—
h <sub>4</sub> (E)	4	#8	36'-10"	—
h <sub>5</sub> (E)	4	#7	36'-10"	—
h <sub>6</sub> (E)	6	#8	36'-11"	—
h <sub>7</sub> (E)	6	#4	37'-2"	—
h <sub>10</sub> (E)	66	#8	17'-1"	—
h <sub>11</sub> (E)	50	#8	9'-11"	—
h <sub>12</sub> (E)	66	#8	19'-4"	—
h <sub>13</sub> (E)	50	#8	11'-9"	—
h <sub>14</sub> (E)	24	#4	20'-9"	—
h <sub>15</sub> (E)	4	#4	18'-5"	—
h <sub>16</sub> (E)	4	#4	21'-1"	—
n(E)	86	#5	5'-7"	U
s(E)	37	#4	5'-5"	□
s <sub>1</sub> (E)	37	#4	5'-7"	□
s <sub>2</sub> (E)	37	#4	6'-1"	□
t(E)	44	#4	7'-2"	—
t <sub>1</sub> (E)	48	#5	7'-2"	—
v(E)	465	#6	5'-5"	—
v <sub>1</sub> (E)	465	#6	12'-4"	—
v <sub>2</sub> (E)	8	#5	16'-7"	—
v <sub>3</sub> (E)	12	#5	14'-1"	—
v <sub>4</sub> (E)	8	#5	15'-10"	—
v <sub>5</sub> (E)	44	#5	19'-2"	—
w(E)	40	#4	20'-8"	—

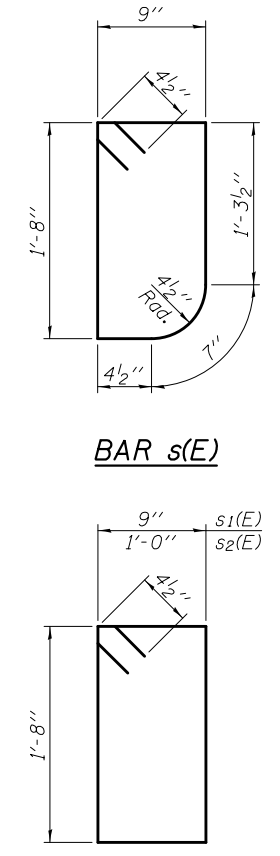
For details of Bar Splicers, see sheet 12 of 13.  
For details of piles, see sheet 11 of 13.



**VERTICAL CANTILEVER T-TYPE WINGWALL ELEVATION**



**SECTION C-C**



**BARS s<sub>1</sub>(E) & s<sub>2</sub>(E)**

**PILE DATA**

Type: HP 10x42  
Nominal Required Bearing: 335 kips  
Factored Resistance Available: 176 kips  
Est. Length: 25'  
No. Production Piles: 14  
No. Test Piles: 0

SDATES \$TIMES

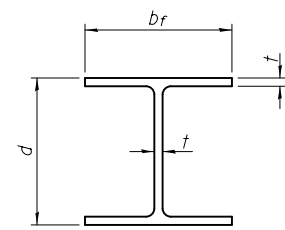
DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>James F. J...</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl...</i>	REVISED -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
CHECKED - J.M.O. / J.O.V. / G.R.A.		

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

**CULVERT DETAILS**  
**STRUCTURE NO. 024 - 2008**

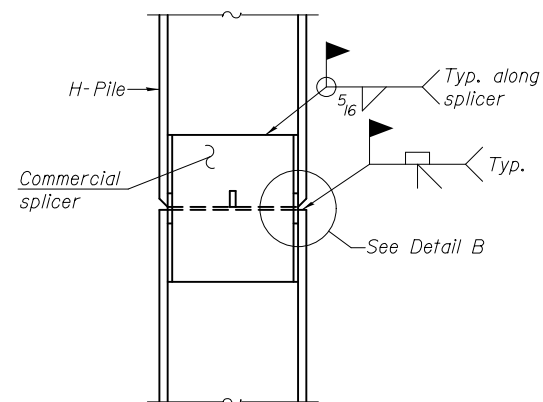
SHEET NO. 10 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	34
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				

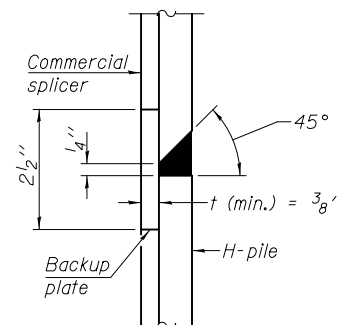


**STEEL PILE TABLE**

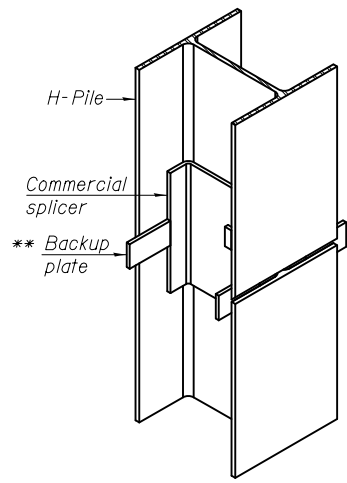
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

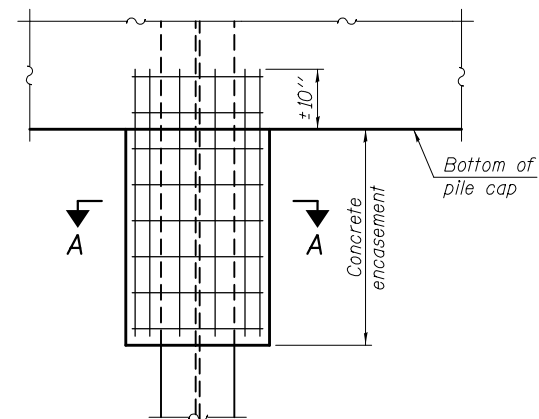


**DETAIL "B"**



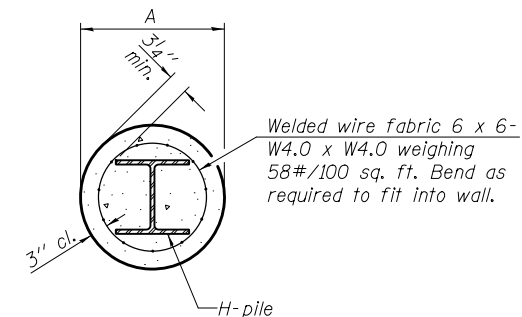
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**



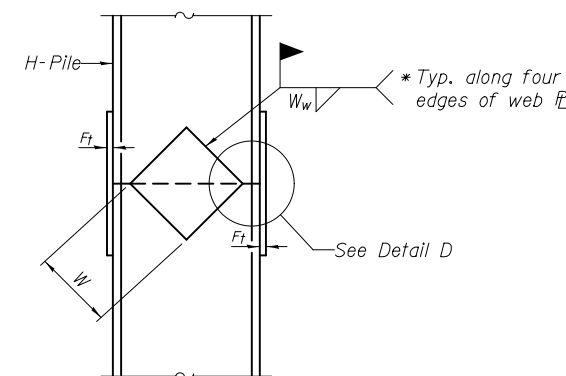
**ELEVATION**

**PILE ENCASEMENT**

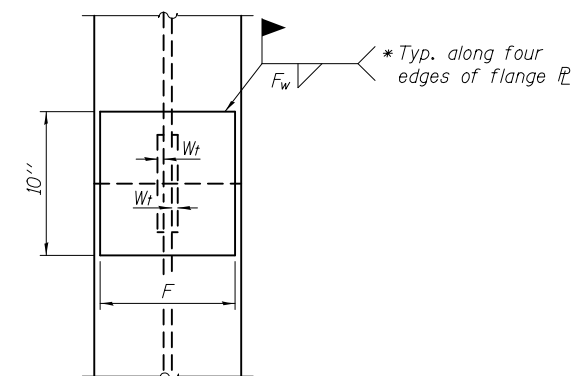


**SECTION A-A**

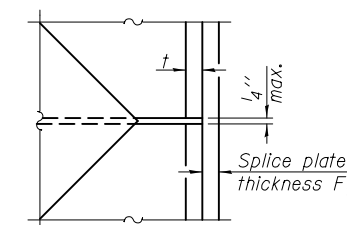
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



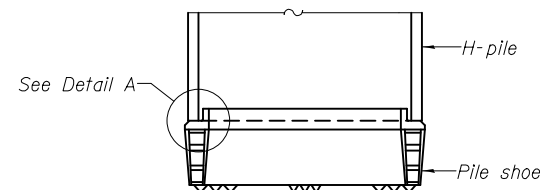
**END VIEW**



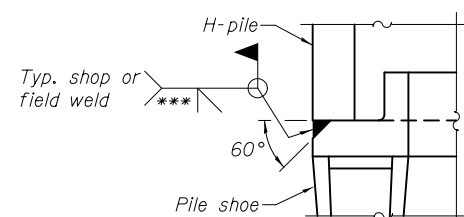
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

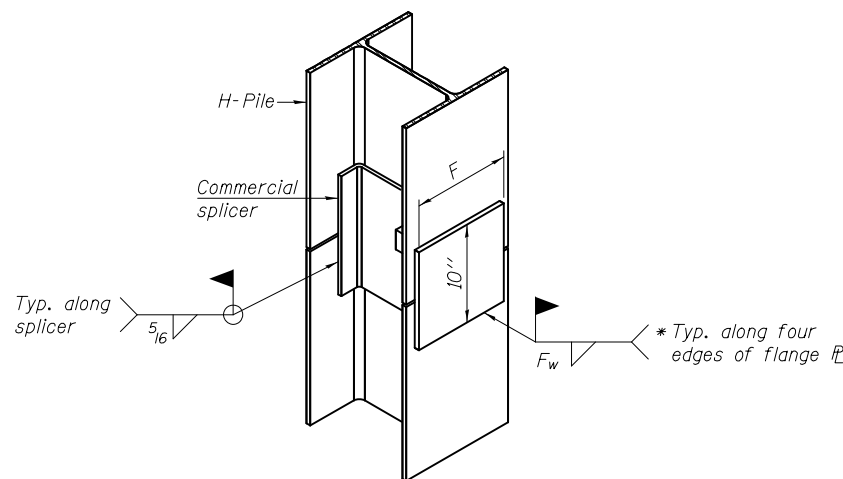


**ELEVATION**



**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

SDATES STIMES

F-HP 1-27-12

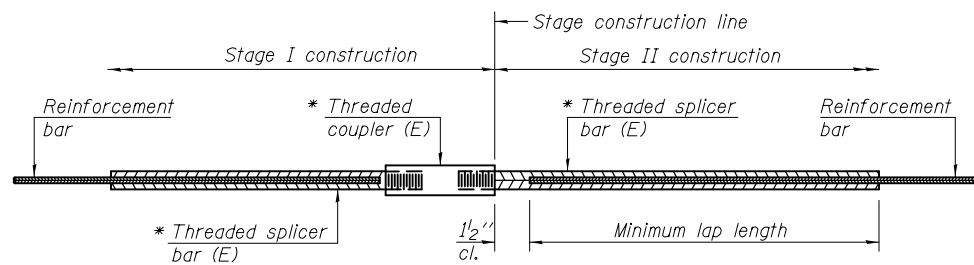
DESIGNED - JOSHUA M. ODORIZZI	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - J.M.O. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS  
STRUCTURE NO. 024 - 2008**

SHEET NO. 11 OF 13 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	34A
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



**STANDARD BAR SPLICER ASSEMBLY**

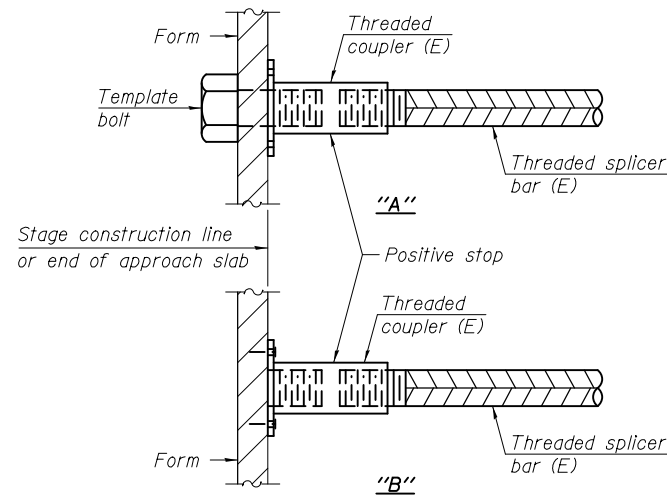
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

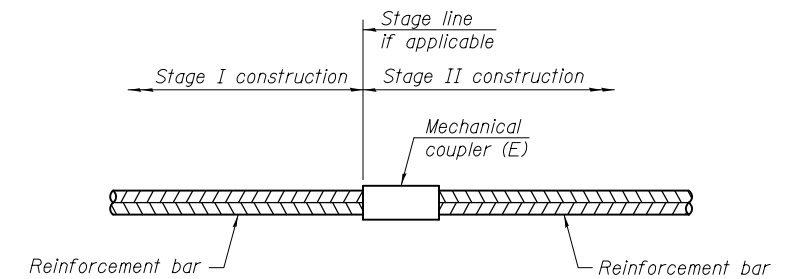
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top of top slab	#5	27	5
Bottom of top slab	#6	43	5
Bottom slab	#5	66	5
Walls	#6	45	5



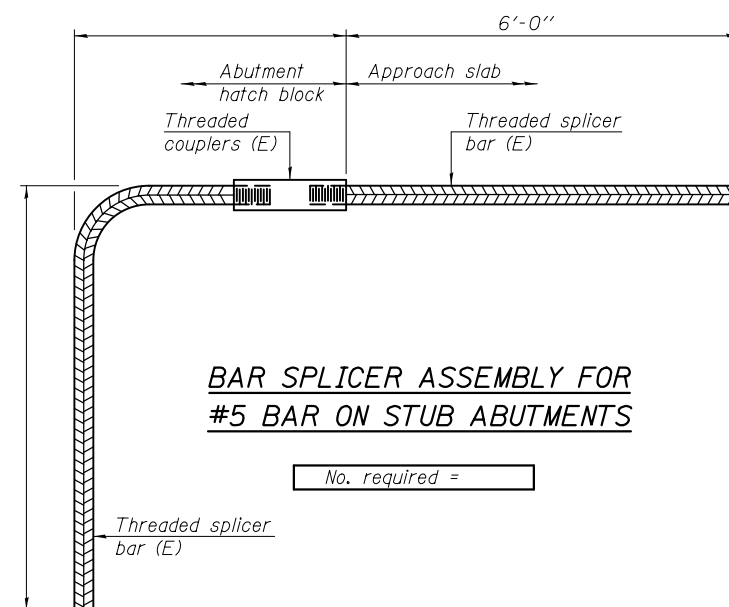
**INSTALLATION AND SETTING METHODS**

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



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

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

SDATES \$TIMES

BSD-1

8-31-12

DESIGNED - JOSHUA M. ODORIZZI  
 CHECKED - JOSUE D. ORTIZ-VARELA  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - J.M.O. / J.O.V. / G.R.A.

EXAMINED  
 PASSED

ENGINEER OF BRIDGE DESIGN  
  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - SEPTEMBER 21, 2015

REVISED \_\_\_\_\_  
 REVISED \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 024 - 2008

SHEET NO. 12 OF 13 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR)B-1	EDWARDS	72	34B
CONTRACT NO. 74354				

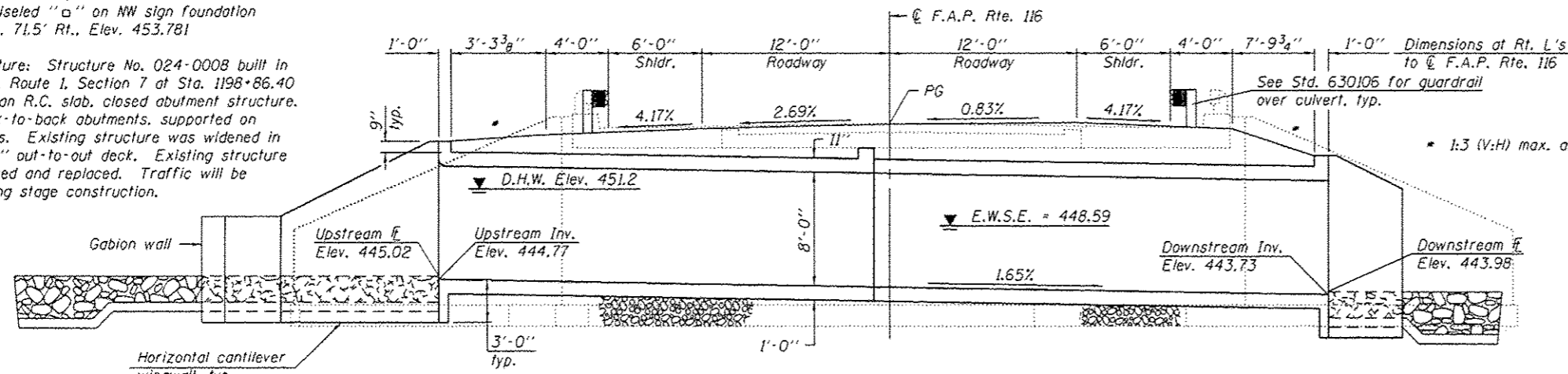
ILLINOIS FED. AID PROJECT



BM #617 - Chiseled "a" on top of SE wingwall of S.N. 024-0008;  
 Sta. 1198+95.20.9' Rt., Elev. 456.092  
 BM #500: Chiseled "a" on NW sign foundation  
 Sta. 1198+63.5.71.5' Rt., Elev. 453.781

Existing Structure: Structure No. 024-0008 built in 1922 as S.B.I. Route 1, Section 7 at Sta. 1198+86.40 as a single span R.C. slab, closed abutment structure. 22'-3 3/4" back-to-back abutments, supported on spread footings. Existing structure was widened in 1954 to 40'-4" out-to-out deck. Existing structure is to be removed and replaced. Traffic will be maintained using stage construction.

No salvage.



**DESIGN SPECIFICATIONS**  
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

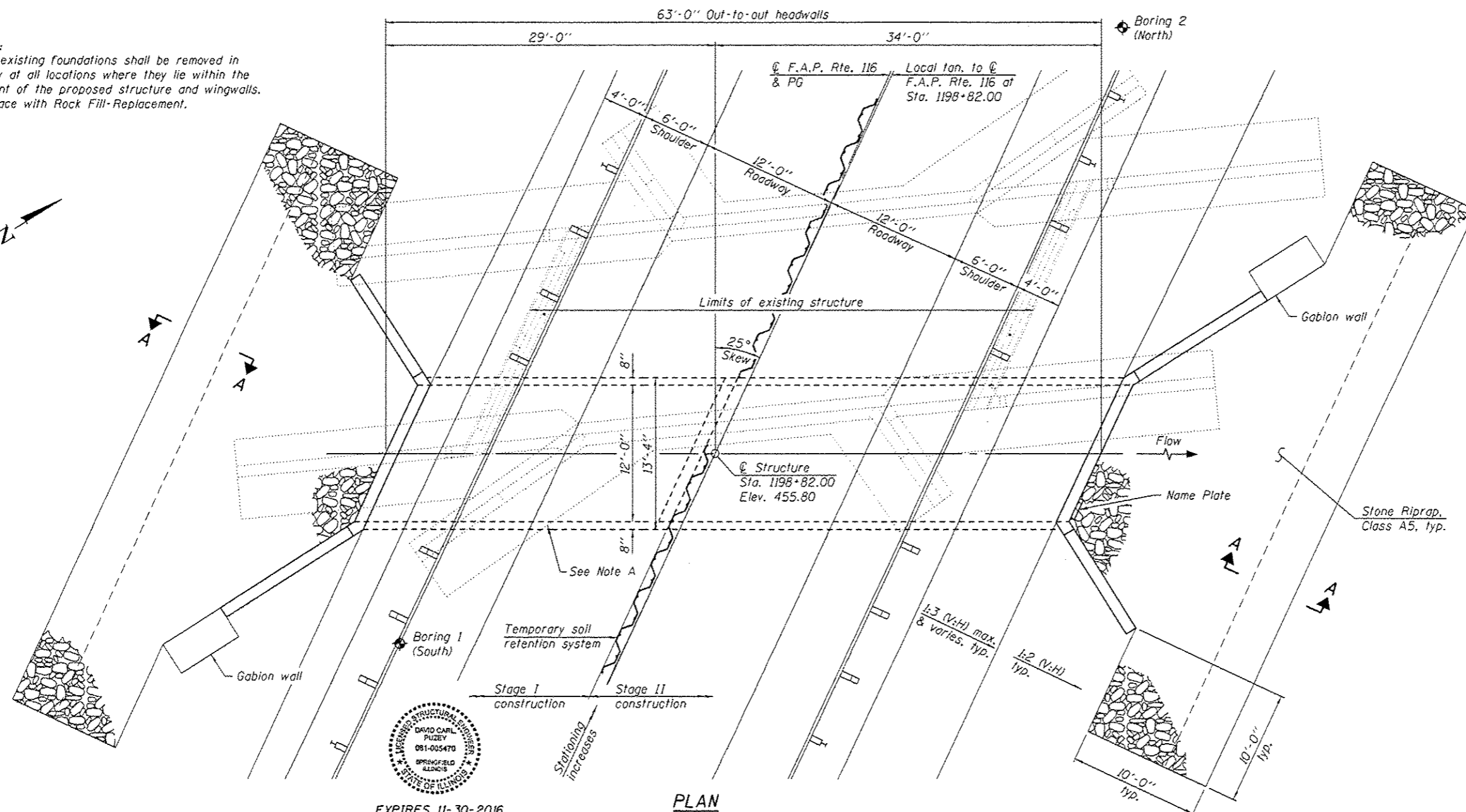
**DESIGN STRESSES**  
 FIELD UNITS

$f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)

**LOADING HL-93**

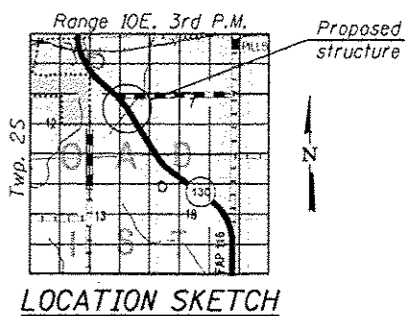
Allow 50#/sq. ft. for future wearing surface.

Note A:  
 The existing foundations shall be removed in entirety at all locations where they lie within the footprint of the proposed structure and wingwalls. Replace with Rock Fill-Replacement.



**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Soil Retention System
- 5 - Temporary Concrete Barrier
- 6 - Culvert Details - Top Slab
- 7 - Culvert Details - Bottom Slab
- 8-10 - Culvert and Gabion Wall Details
- 11 - Bar Splicer Assembly Details
- 12 - Soil Boring Logs



**GENERAL PLAN & ELEVATION**  
**IL. RTE. 130 OVER STREAM**  
**F.A.P. RTE. 116 - SEC. (7BY)B-1**  
**EDWARDS COUNTY**  
**STATION 1198+82.00**  
**STRUCTURE NO. 024-7033**

9/10/2015 9:12:08 AM

DESIGNED: <i>Michael B. Bossman</i>	EXAMINED: <i>Jay F. Puzey</i>	DATE: 9-21-2015
CHECKED: <i>Michael B. Bossman</i>	PASSED: <i>Jay F. Puzey</i>	REVISED: _____
DRAWN: MICHAEL B. BOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED: _____
CHECKED: I.P. / J.O.V. / G.R.A.		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	35
			CONTRACT NO. 74354	
ILLINOIS FED. AID PROJECT				

**WATERWAY INFORMATION**

Existing Low Grade Elev. 455.69 @ Sta. 1199+25									
Drainage Area = 0.25 sq. mi. Proposed Low Grade Elev. 455.69 @ Sta. 1199+25									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	270	77	60	449.8	0.0	0.0	449.8	449.8
Base	50	469	101	76	451.2	0.0	0.0	451.2	451.2
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	806	124	92	452.5	0.0	0.5	452.5	453.0

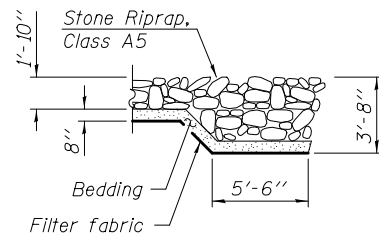
Existing 10-year velocity = 3.51 ft./sec.  
Proposed 10-year velocity = 4.50 ft./sec.

**CURVE DATA**

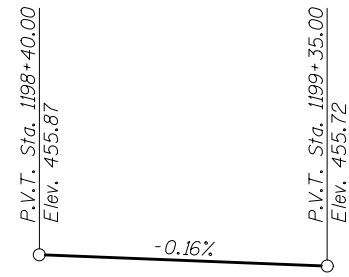
P.I. Sta. = 1203+08.09  
Δ = 18° 15' 39" (Lt.)  
D = 1° 52' 06"  
R = 3,066.86'  
T = 492.90'  
L = 977.44'  
E = 39.36'  
P.C. Sta. = 1198+15.19  
P.T. Sta. = 1207+92.63

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
Precast alternate not allowed.  
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before stage I removal to ensure the remaining portion will not be prematurely damaged.



**SECTION A-A**



**PROFILE GRADE**  
(Along C F.A.P. Rte. 116)

STATION 1198+82.00  
BUILT 201 BY  
STATE OF ILLINOIS  
F.A.P. RTE. 116 - SEC. (7BY)B-1  
LOADING HL-93  
STRUCTURE NO. 024-7033

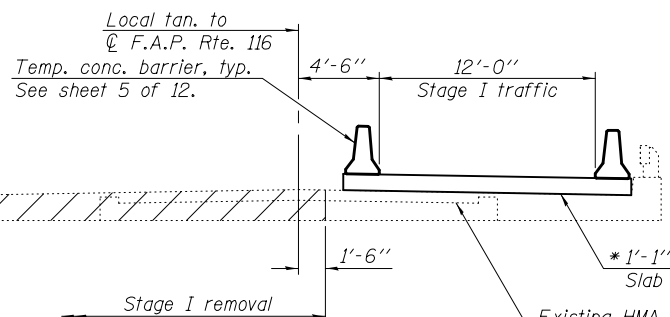
**NAME PLATE**

**TOTAL BILL OF MATERIAL**

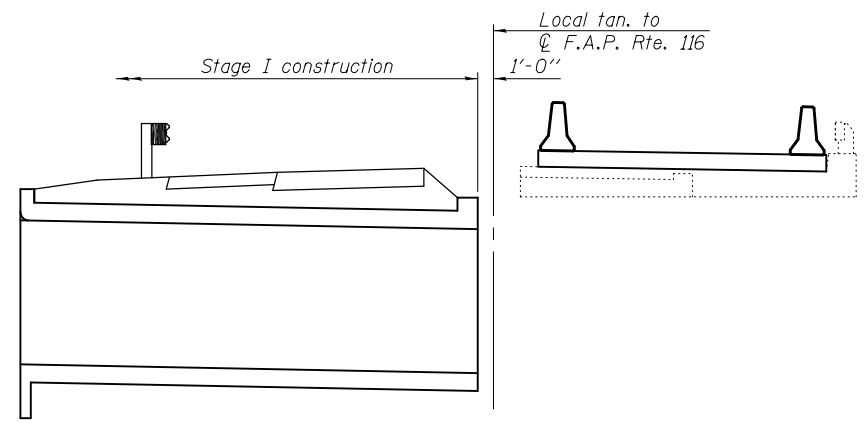
ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	167
Filter Fabric	Sq. Yd.	167
Gabions	Cu. Yd.	9
Removal of Existing Structures	Each	1
Concrete Superstructure	Cu. Yd.	14.3
Reinforcement Bars, Epoxy Coated	Pound	35,300
Bar Splicers	Each	76
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	106.0
Rock Fill - Replacement	Ton	47.6
Temporary Soil Retention System	Sq. Ft.	512

SDATES \$TIMES

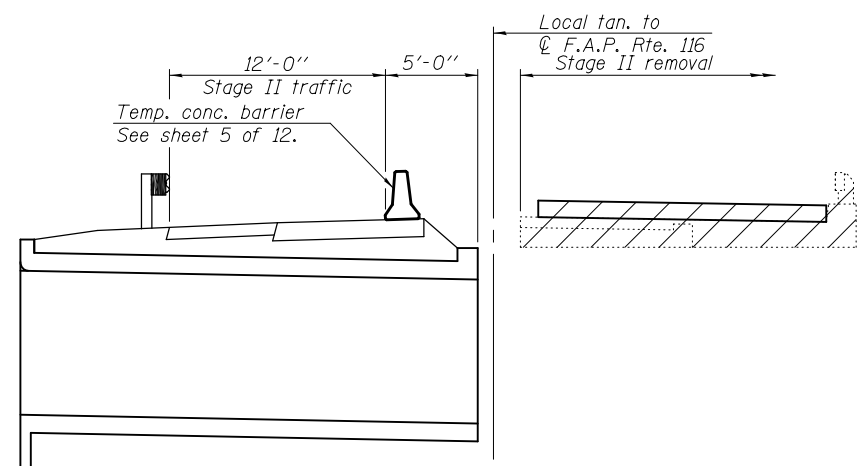
DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL DATA STRUCTURE NO. 024 - 7033</b>	F.A.P. RTE. 116	SECTION (7BY)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 36	
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISED -			CONTRACT NO. 74354					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -			SHEET NO. 2 OF 12 SHEETS					
CHECKED - I.P. / J.O.V. / G.R.A.					ILLINOIS FED. AID PROJECT					



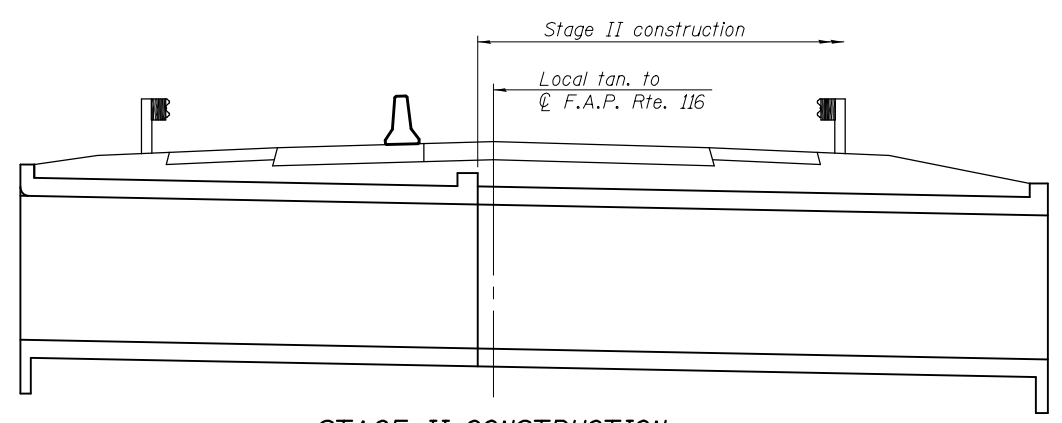
**STAGE I REMOVAL**



**STAGE I CONSTRUCTION**



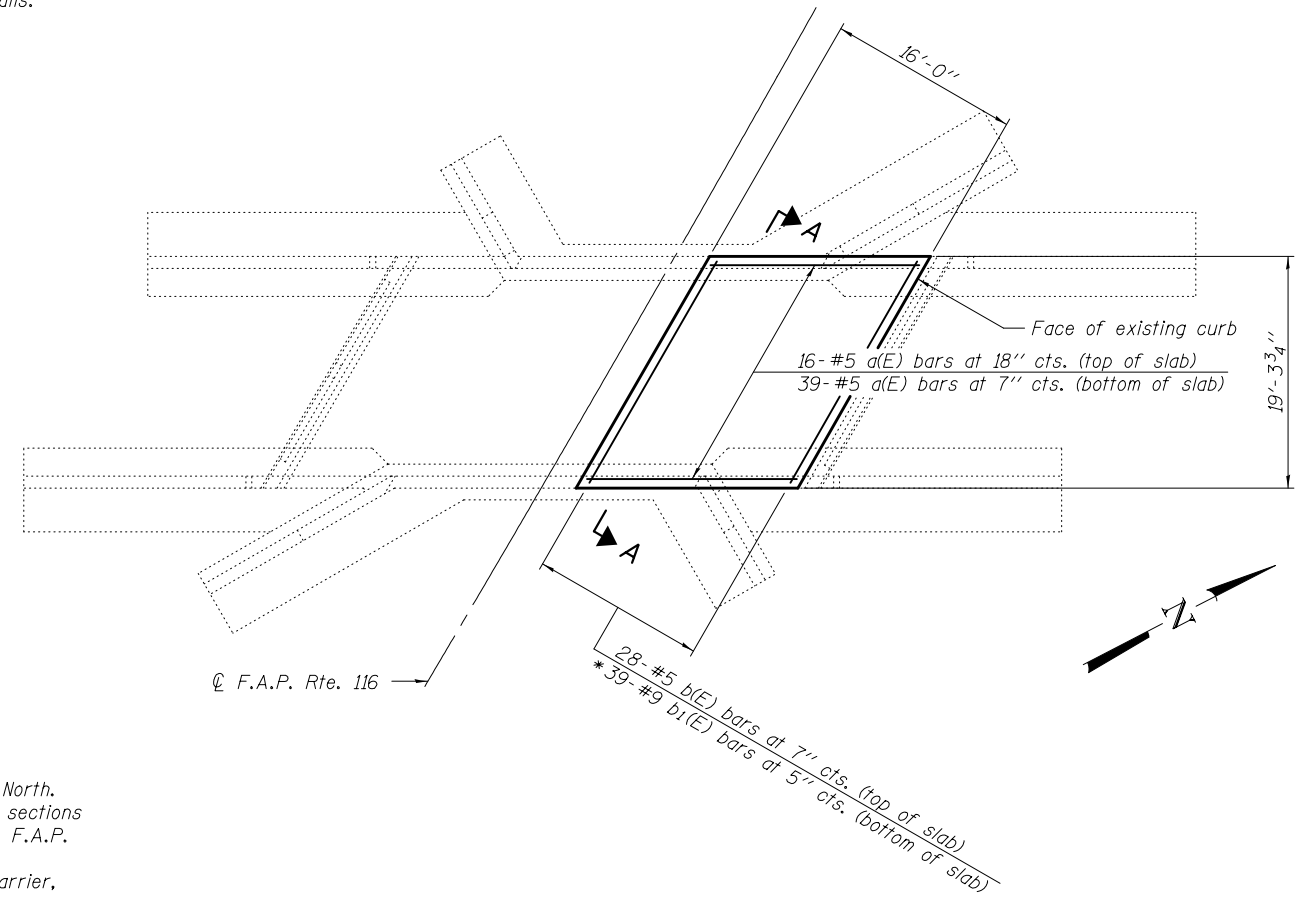
**STAGE II REMOVAL**



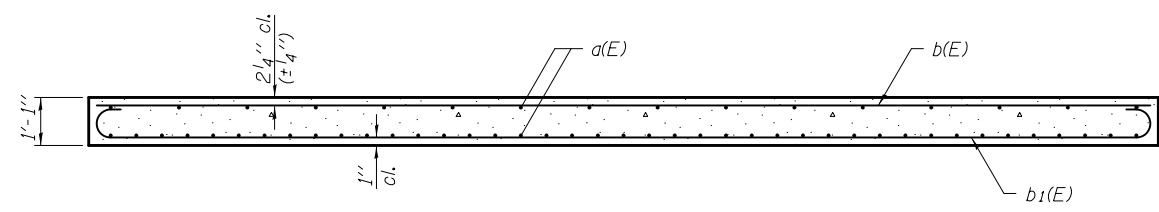
**STAGE II CONSTRUCTION**

\* Install temporary slab prior to saw-cutting existing slab at stage removal line. See Temporary Slab Plan for details.

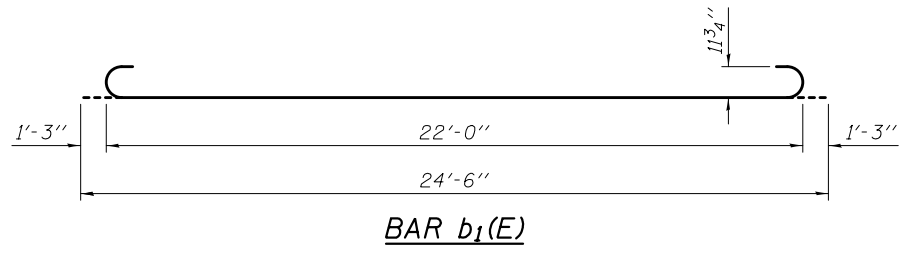
Notes:  
 All staging cross sections are looking North.  
 Horizontal dimensions in staging cross sections are at right angles to local tangent to C.F.A.P. Rte. 116.  
 For quantity of Temporary Concrete Barrier, see roadway plans.  
 Hatched area indicates Removal of Existing Structures.



**TEMPORARY SLAB PLAN**



**SECTION A-A**



**BAR b<sub>1</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	55	#5	18'-2"	—
b(E)	28	#5	22'-0"	—
b <sub>1</sub> (E)	39	#9	24'-6"	⌋
Concrete Superstructure			Cu. Yd.	14.3
Reinforcement Bars, Epoxy Coated			Pound	4,930

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISER -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - I.P. / J.O.V. / G.R.A.		

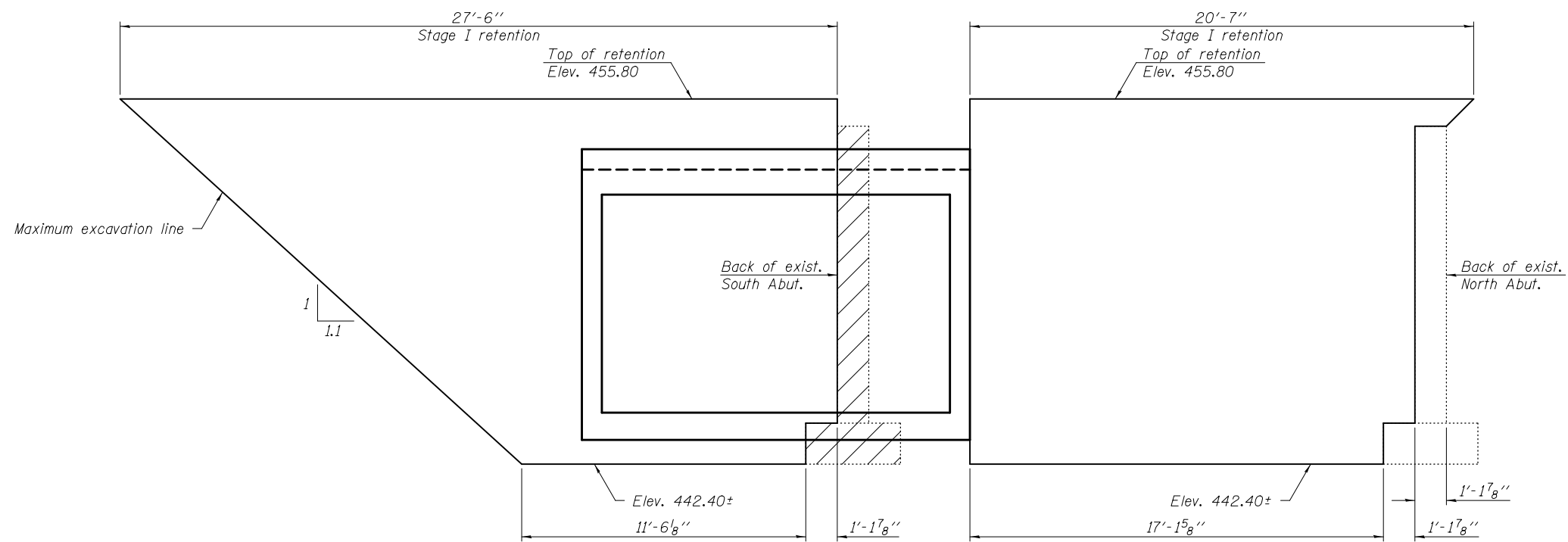
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 024 - 7033**

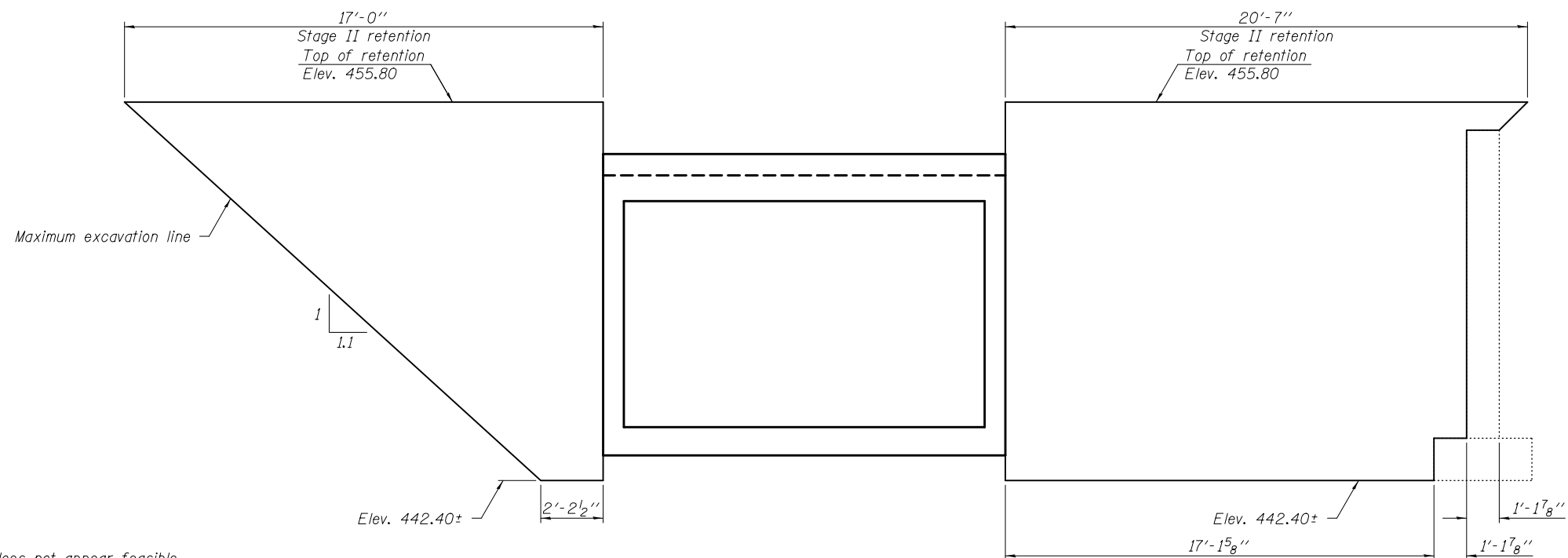
SHEET NO. 3 OF 12 SHEETS

F.A.P. RTE. 116	SECTION (7BY)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 37
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				





**STAGE I SOIL RETENTION SYSTEM**  
(Looking west)



**STAGE II SOIL RETENTION SYSTEM**  
(Looking west)

Notes:  
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.  
 The horizontal dimensions shown for the temporary soil retention systems are given along the local tangent to  $\bar{C}$  F.A.P. Rte. 116.  
 Hatched area indicates Removal of Existing Structures.

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	ENGINEER OF BRIDGE DESIGN	
DRAWN - MICHAEL B. MOSSMAN	PASSED - <i>Carl [Signature]</i>	REVISED -
CHECKED - I.P. / J.O.V. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

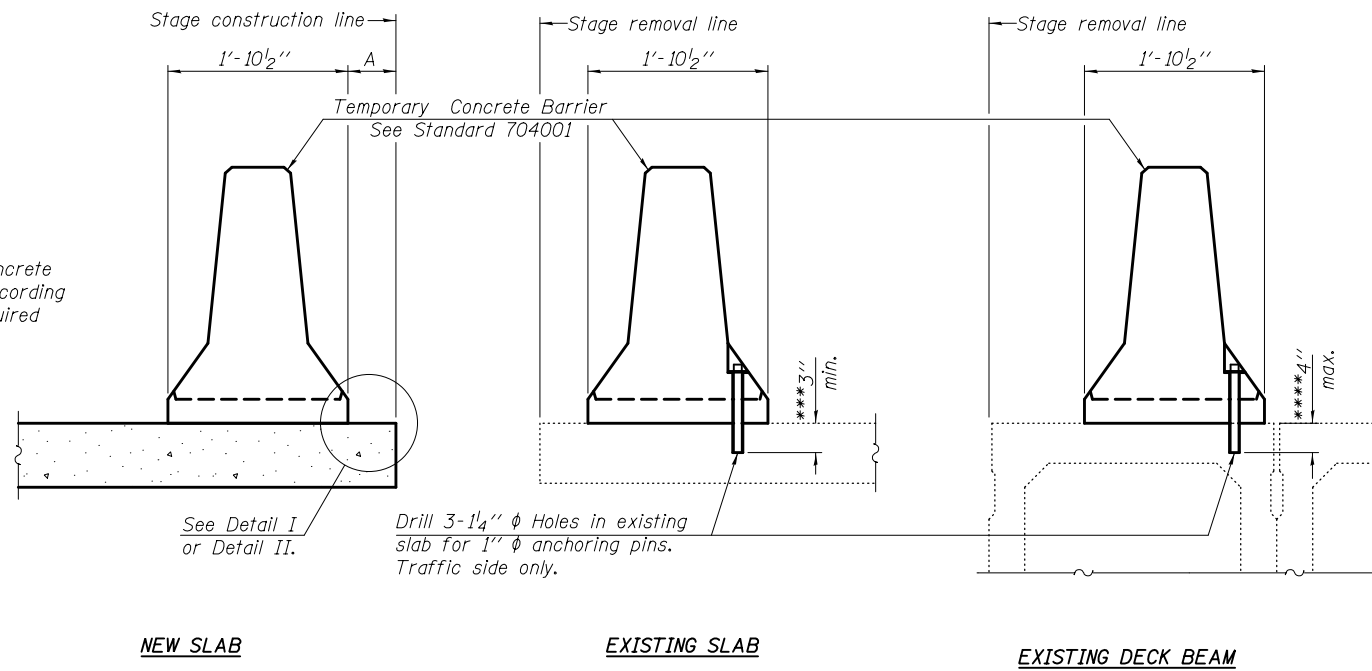
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM**  
**STRUCTURE NO. 024 - 7033**

SHEET NO. 4 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	38
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

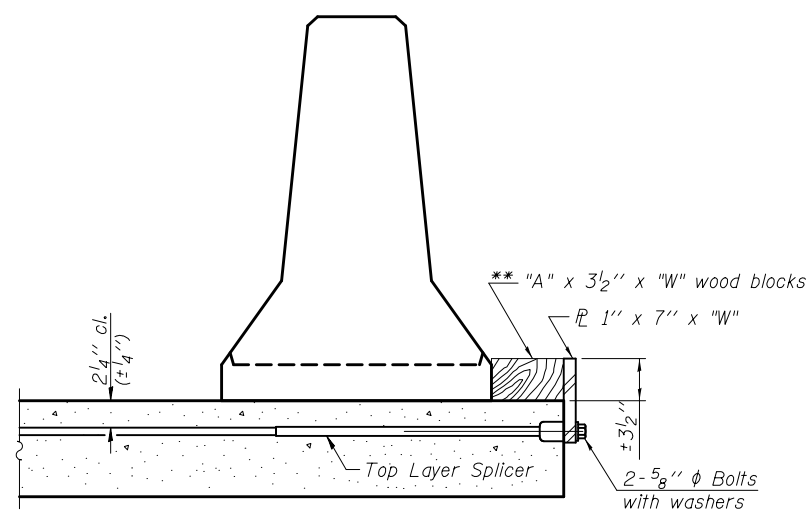
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" diameter bolts screwed to coupler at approximate center of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" diameter Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.

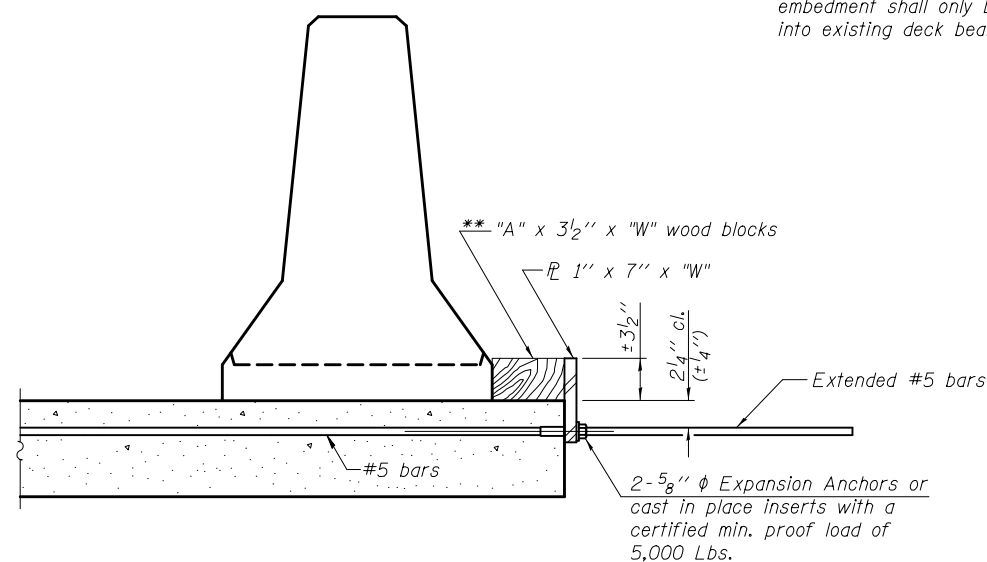
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete.  
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

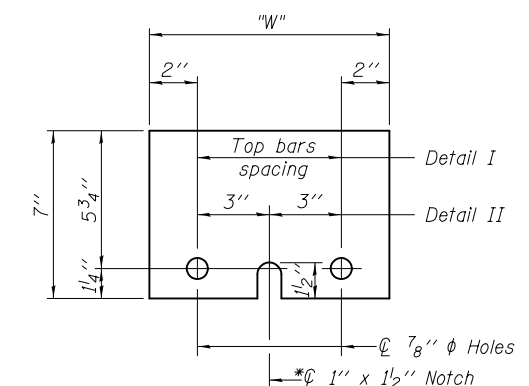
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**DETAIL I**



**DETAIL II**



**STEEL RETAINER PL 1" x 7" x "W"**

\* Required only with Detail II

**RETAINER ASSEMBLY**

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

SDATES \$TIMES

R-27

1-12-15

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	ENGINEER OF BRIDGE DESIGN	
DRAWN - MICHAEL B. MOSSMAN	PASSED - <i>Carl [Signature]</i>	REVISED -
CHECKED - I.P. / J.O.V. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

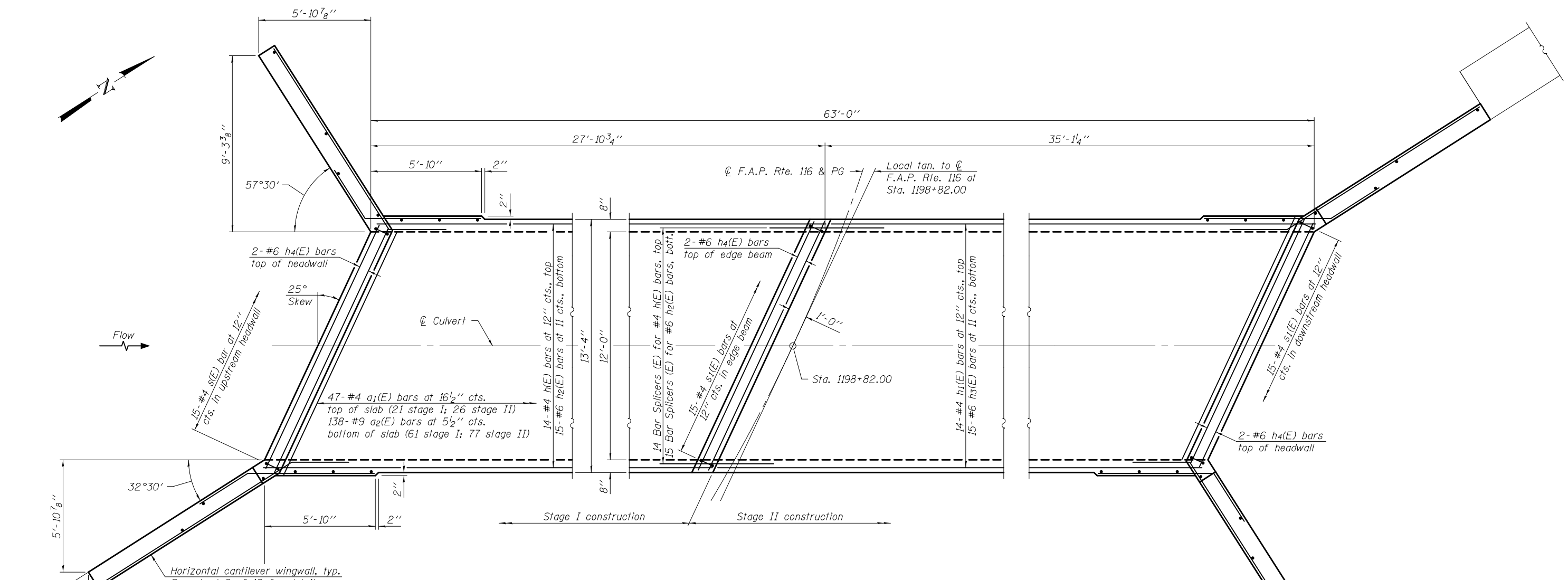
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 024 - 7033**

SHEET NO. 5 OF 12 SHEETS

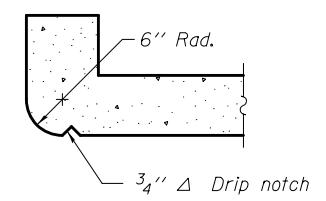
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	39
CONTRACT NO. 74354				

ILLINOIS FED. AID PROJECT

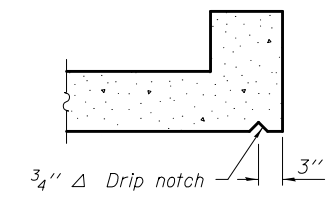
SDATES \$TIMES



**PLAN**



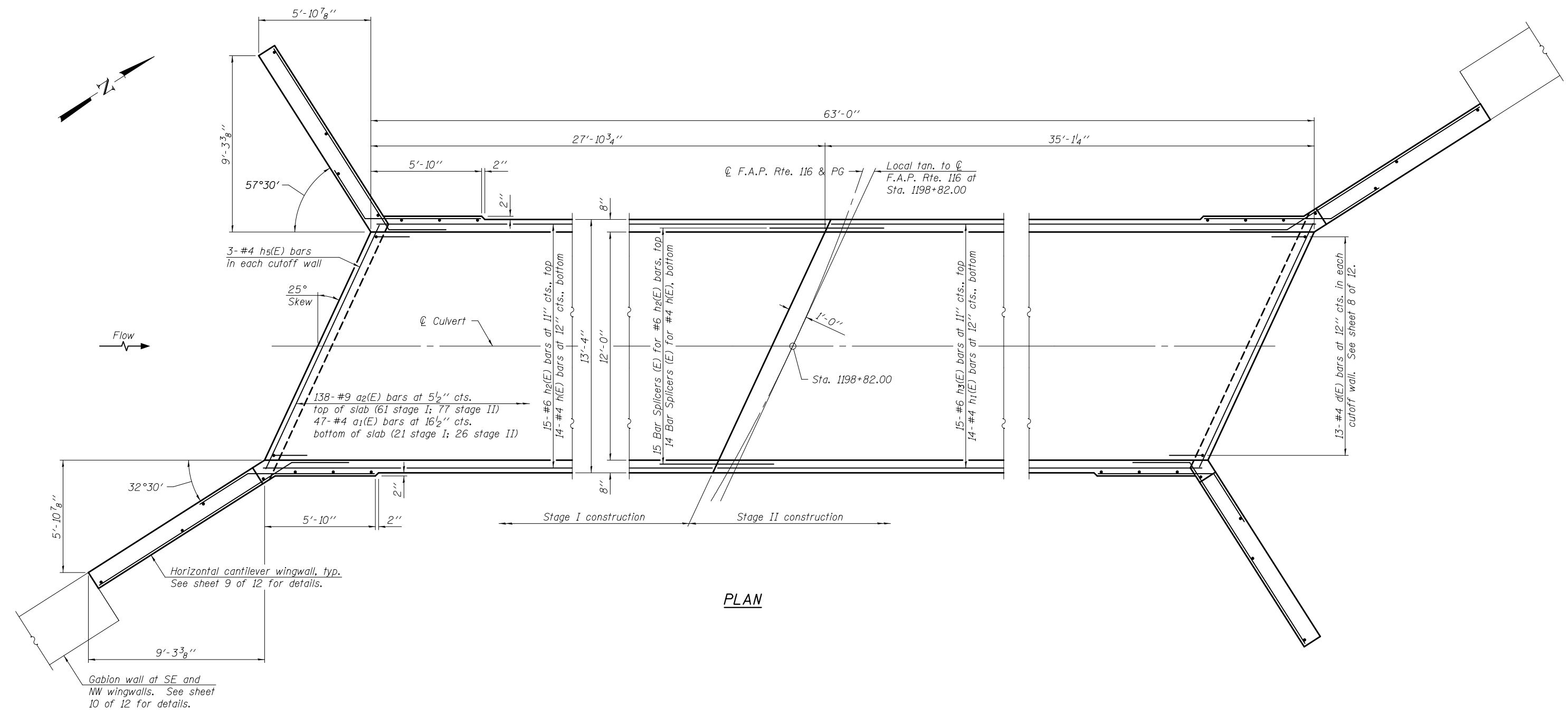
**SECTION THRU SOUTH HEADWALL**  
(Upstream end)



**SECTION THRU NORTH HEADWALL**  
(Downstream end)

DESIGNED - IRENE PANTOJA	EXAMINED - <i>James F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CULVERT DETAILS - TOP SLAB STRUCTURE NO. 024 - 7033</b>	F.A.P. RTE. 116	SECTION (7BY)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 40	
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISOR			CONTRACT NO. 74354					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR			SHEET NO. 6 OF 12 SHEETS					
CHECKED - I.P. / J.O.V. / G.R.A.					ILLINOIS FED. AID PROJECT					

SDATES \$TIMES



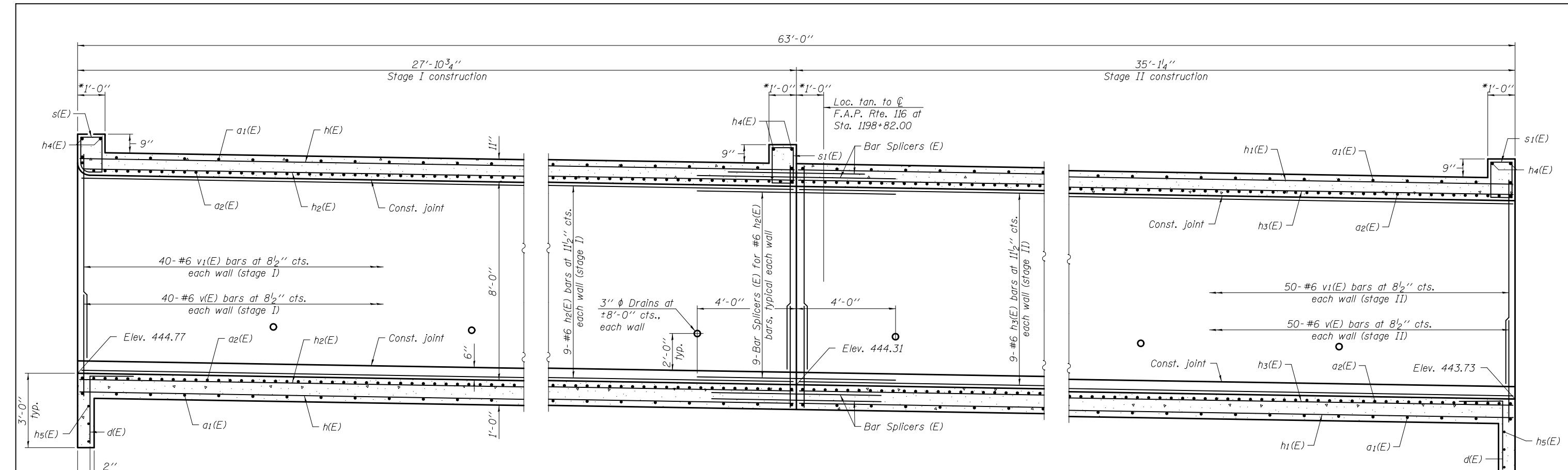
DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISER -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - I.P. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

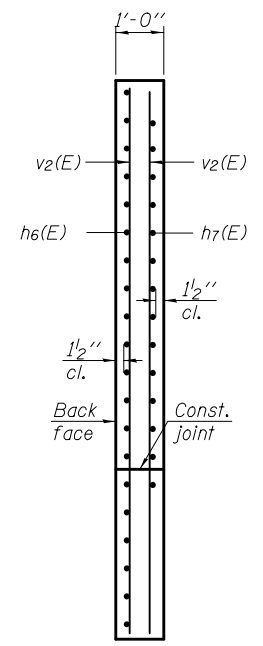
**CULVERT DETAILS - BOTTOM SLAB  
STRUCTURE NO. 024 - 7033**

SHEET NO. 7 OF 12 SHEETS

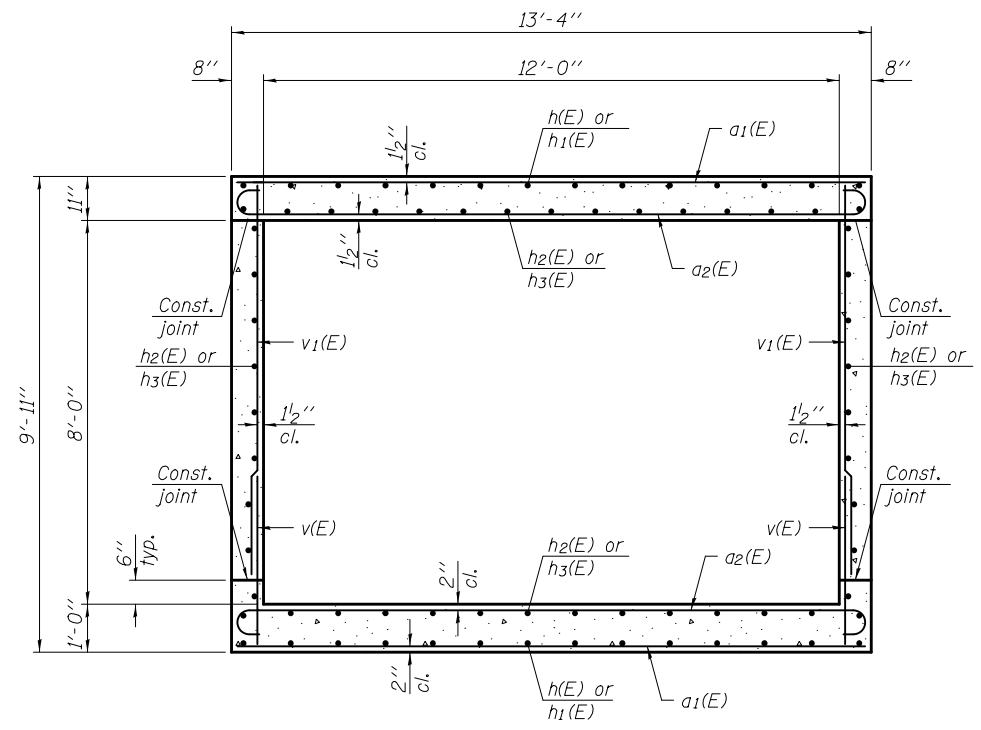
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	41
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



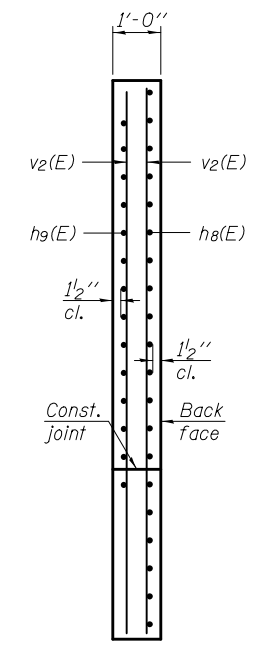
**LONGITUDINAL SECTION**



**SECTION A-A**



**SECTION THRU BARREL**



**SECTION B-B**

SDATES \$TIMES

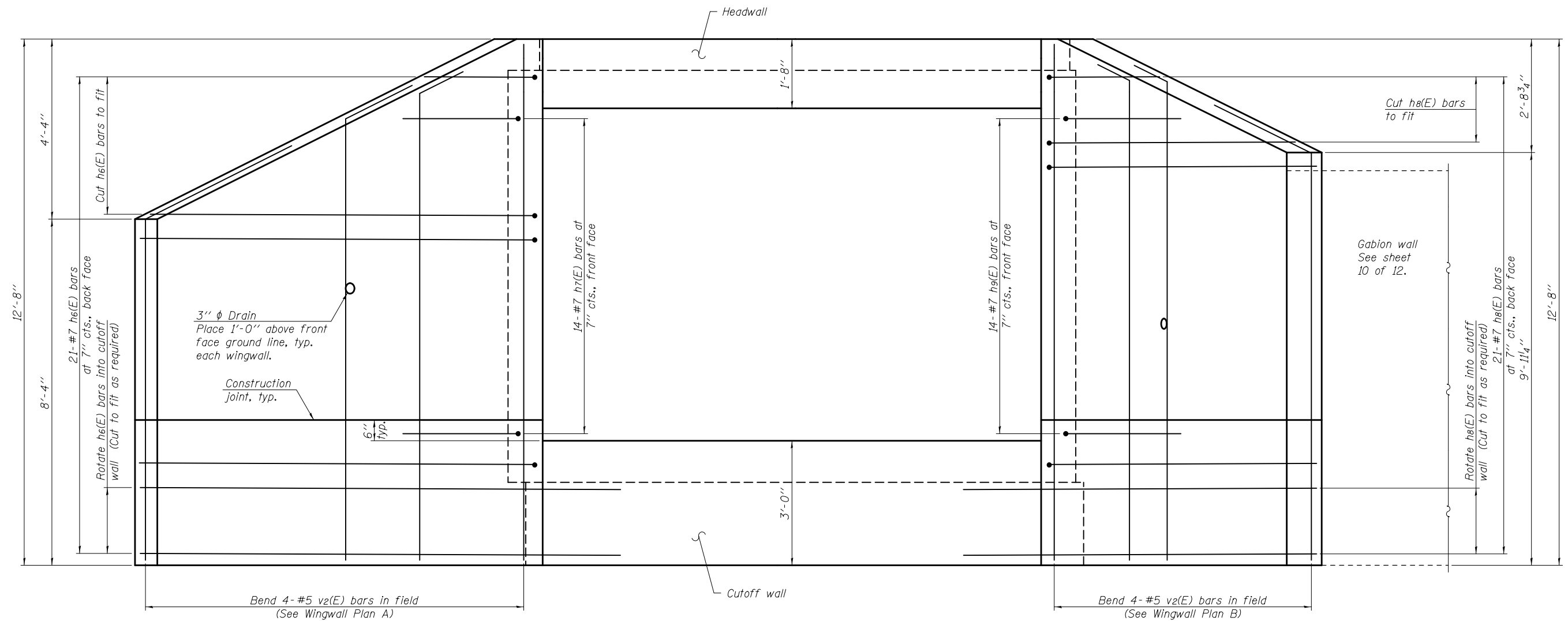
DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISER -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISER -
CHECKED - I.P. / J.O.V. / G.R.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS  
STRUCTURE NO. 024 - 7033**

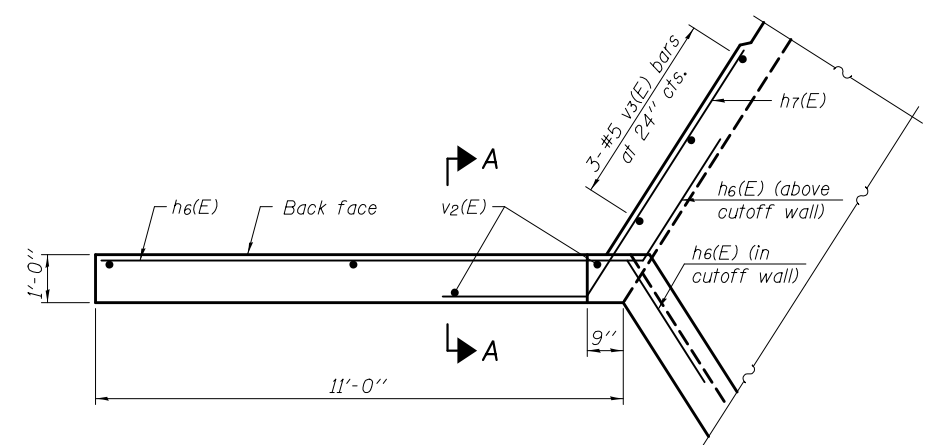
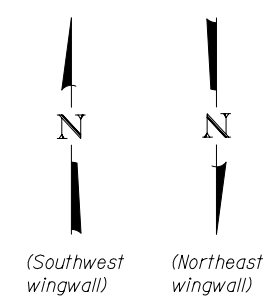
SHEET NO. 8 OF 12 SHEETS

F.A.P. RTE. 116	SECTION (7BY)B-1	COUNTY EDWARDS	TOTAL SHEETS 72	SHEET NO. 42
				CONTRACT NO. 74354
ILLINOIS FED. AID PROJECT				

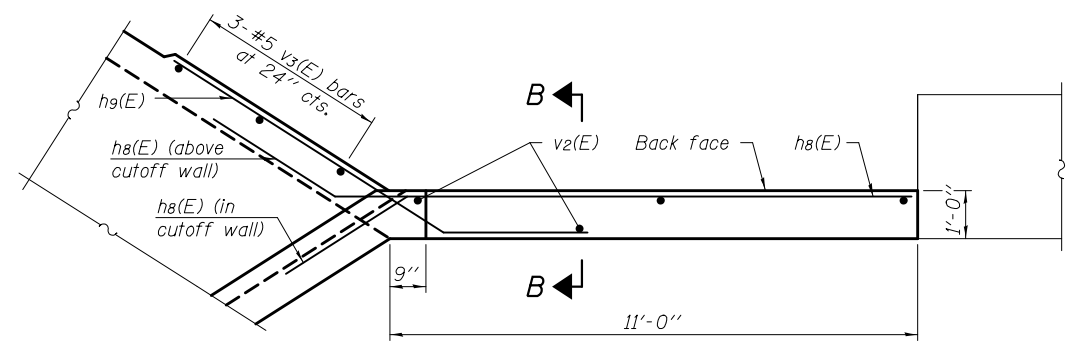


**END ELEVATION**

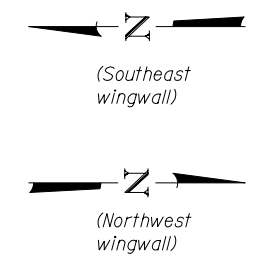
Notes:  
 A distance of half the length of the wingwall, but not less than six feet of the barrel, shall be poured monolithically with the wingwalls.  
 See sheet 8 of 12 for Section A-A and Section B-B.



**WINGWALL PLAN A**  
 (Northeast and Southwest wingwalls)



**WINGWALL PLAN B**  
 (Northwest and Southeast wingwalls)



DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. Joffe</i>
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl R. ...</i>
DRAWN - MICHAEL B. MOSSMAN	
CHECKED - I.P. / J.O.V. / G.R.A.	

DATE - SEPTEMBER 21, 2015  
 ENGINEER OF BRIDGE DESIGN  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

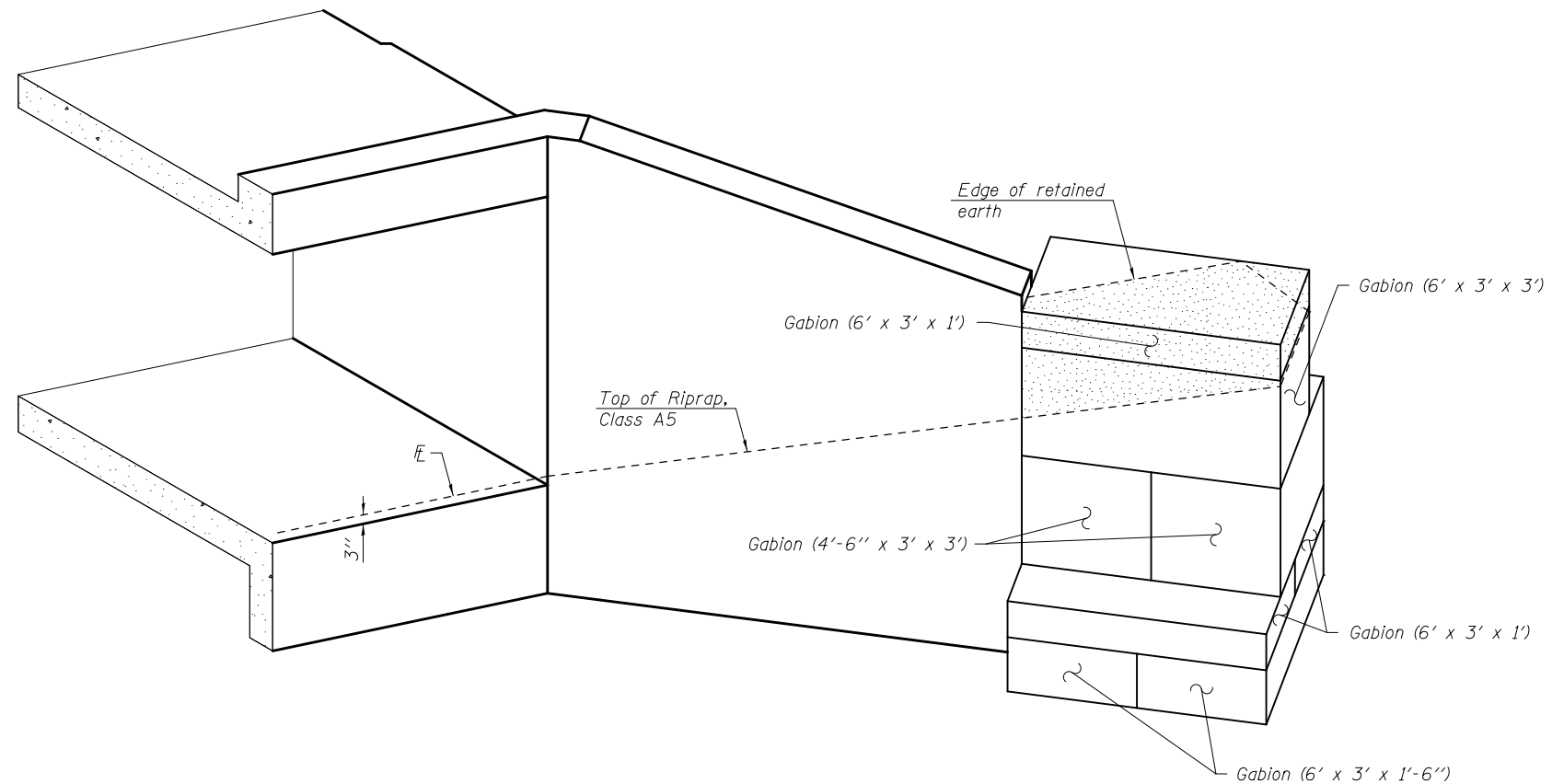
REVIS	---
REVIS	---

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

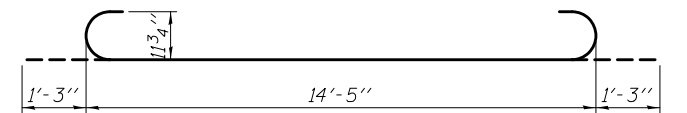
**CULVERT DETAILS**  
**STRUCTURE NO. 024 - 7033**

SHEET NO. 9 OF 12 SHEETS

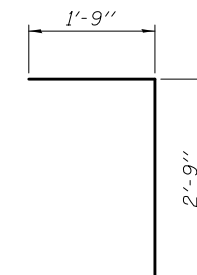
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	43
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



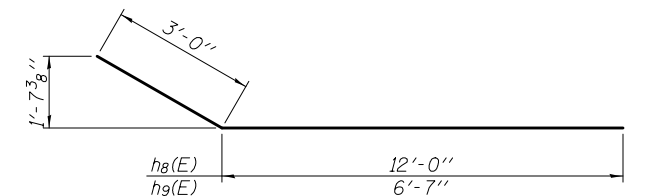
**GABION WINGWALL  
ISOMETRIC VIEW**



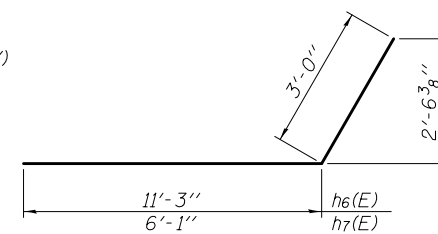
**BAR a2(E)**



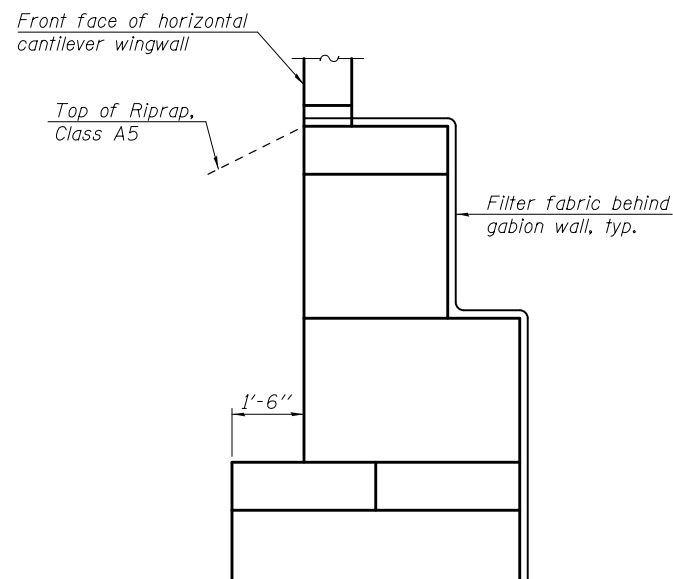
**BAR d(E)**



**BARS h8(E) & h9(E)**

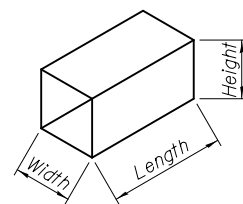


**BARS h6(E) & h7(E)**

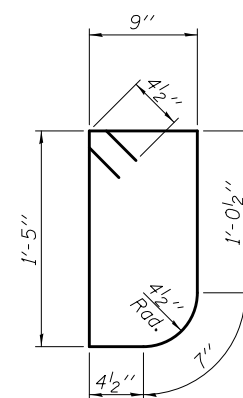


**GABION WINGWALL  
END VIEW**

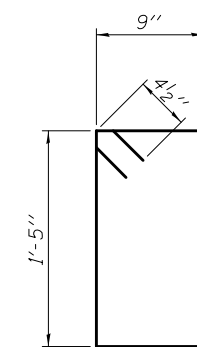
**LEGEND**  
 Indicates area of exposed gabion



**GABION SIZE**  
 Dimensions are (Length x Width x Height).



**BAR s(E)**



**BARS s1(E)**

Note:  
 Cost of Filter Fabric, excavation, and backfill behind gabions is included with Gabions.

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	94	#4	14'-5"	—
a2(E)	276	#9	16'-11"	U
d(E)	26	#4	4'-6"	L
h(E)	28	#4	27'-7"	—
h1(E)	28	#4	34'-9"	—
h2(E)	48	#6	27'-7"	—
h3(E)	48	#6	34'-9"	—
h4(E)	6	#6	14'-5"	—
h5(E)	6	#4	14'-4"	—
h6(E)	42	#7	14'-3"	L
h7(E)	28	#7	9'-1"	L
h8(E)	42	#7	15'-0"	L
h9(E)	28	#7	9'-7"	L
s(E)	15	#4	4'-11"	U
s1(E)	30	#4	5'-1"	U
v(E)	180	#6	5'-2"	—
v1(E)	180	#6	8'-2"	—
v2(E)	16	#5	12'-5"	—
v3(E)	12	#5	9'-7"	—
Concrete Box Culverts			Cu. Yd.	106.0
Reinforcement Bars, Epoxy Coated			Pound	30,370
Gabions			Cu. Yd.	9

DESIGNED - IRENE PANTOJA  
 CHECKED - JOSUE D. ORTIZ-VARELA  
 DRAWN - MICHAEL B. MOSSMAN  
 CHECKED - I.P. / J.O.V. / G.R.A.

EXAMINED  
 PASSED  
 ACTING ENGINEER OF BRIDGES AND STRUCTURES

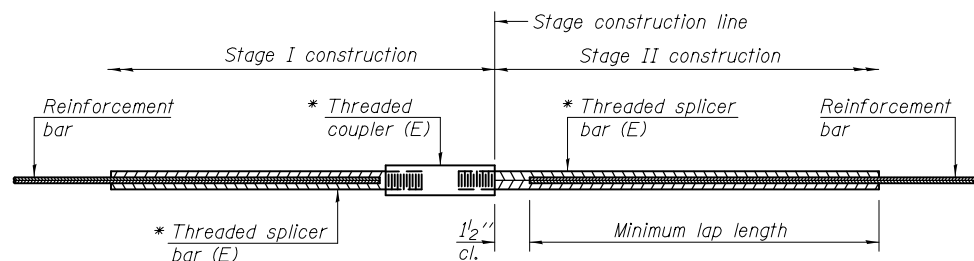
DATE - SEPTEMBER 21, 2015  
 REVISED —  
 REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CULVERT AND GABION WALL DETAILS  
 STRUCTURE NO. 024 - 7033

SHEET NO. 10 OF 12 SHEETS

F.A.P. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 116 (7BY)B-1 EDWARDS 72 44  
 CONTRACT NO. 74354  
 ILLINOIS FED. AID PROJECT



**STANDARD BAR SPLICER ASSEMBLY**

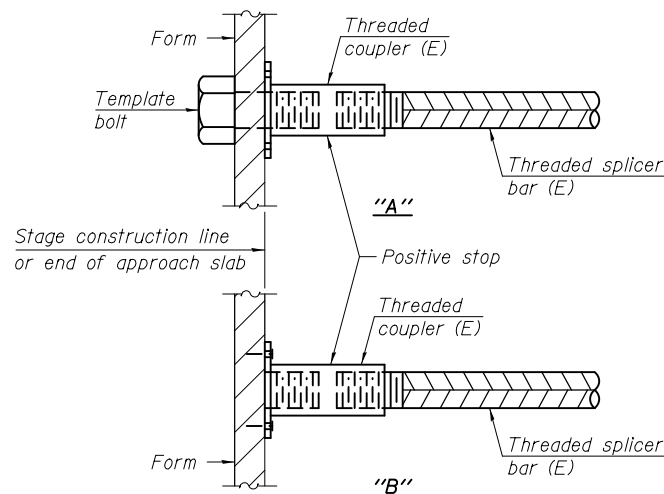
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

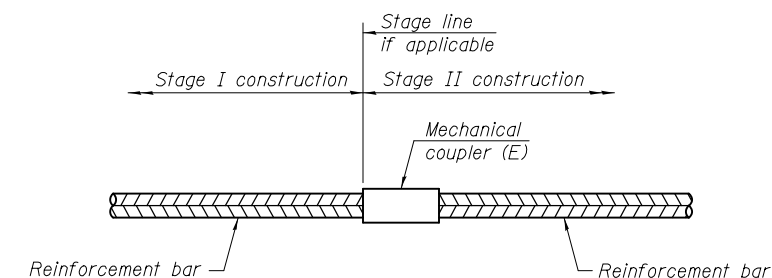
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top & bottom slab	#4	28	5
Top & bottom slab	#6	30	5
Wall	#6	18	5



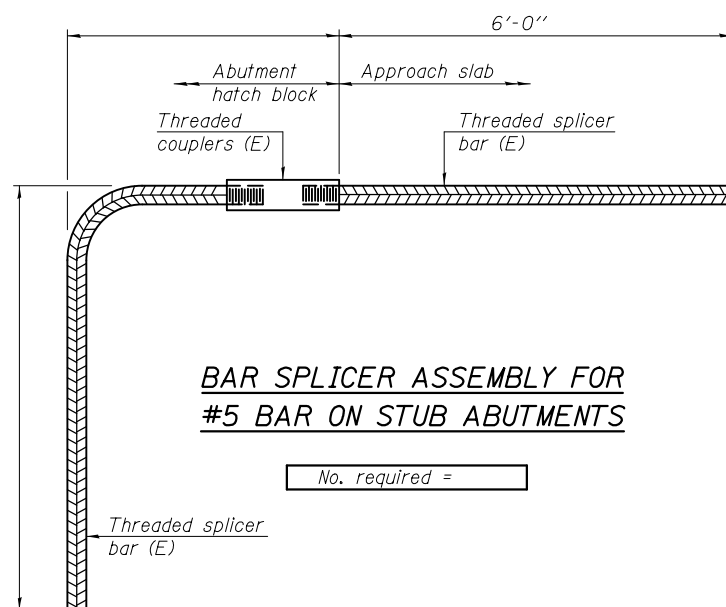
**INSTALLATION AND SETTING METHODS**

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



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

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

SDATES \$TIMES

BSD-1

8-31-12

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Jaime F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISOR -
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISOR -
CHECKED - I.P. / J.O.V. / G.R.A.		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 024 - 7033

SHEET NO. 11 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BY)B-1	EDWARDS	72	45
CONTRACT NO. 74354				
ILLINOIS FED. AID PROJECT				



Page 1 of 1  
Date 8/29/11

**Illinois Department of Transportation**  
Division of Highways

## SOIL BORING LOG

ROUTE FAP 116 (IL 130) DESCRIPTION Box culvert over Un-named Stream LOGGED BY E. Sandschafer

SECTION (7BY)B-1 LOCATION SE 1/4, SEC. 12, TWP. 2 S, RNG. 10 E, 3 PM

COUNTY Edwards DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>024-7033 (old 0008)</u> Station <u>1198+98</u>	D E P T H S	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. <u>444.64</u> ft		D E P T H S	B L O W S	U C S Qu	M O I S T T	
					Stream Bed Elev. <u>444.51</u> ft	Groundwater Elev.:					
BORING NO. <u>1 (South)</u> Station <u>1198+55</u> Offset <u>18.0ft Lt</u> Ground Surface Elev. <u>455.51</u> ft	(ft)	/6"	(tsf)	(%)			(ft)	/6"	(tsf)	(%)	
	6" aggregate shoulder. <u>455.01</u> Medium, damp, brown, SANDY LOAM w/ trace Silt.										
	1										
	2	0.6	16								
	2	B									
	-5	1					-25				
	1	0.6	19								
	2	B									
	448.51 Soft, damp, gray, SILTY LOAM.										
	1										
	1	0.3	20								
	2	B									
	446.01 Stiff, damp, reddish brown/gray/black, CLAY.										
	-10	3					-30				
	4	1.9	18								
	8	B									
	4										
	8	2.6	18								
	19	B									
	442.51 Very dense, moist, gray, CLAY LOAM SHALE, pokerchipped and powdered.										
	-15	50/4"					-35				
	50/4"		8								
	50/1"										
	440.21 Extent of exploration.										
Benchmark: BM 617 Chiseled square on top of SE wingwall of existing structure, Sta 1198+95, 20.9' Rt = 456.09' elevation.											
	-20						-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 1  
Date 8/29/11

**Illinois Department of Transportation**  
Division of Highways

## SOIL BORING LOG

ROUTE FAP 116 (IL 130) DESCRIPTION Box culvert over Un-named Stream LOGGED BY E. Sandschafer

SECTION (7BY)B-1 LOCATION SE 1/4, SEC. 12, TWP. 2 S, RNG. 10 E, 3 PM

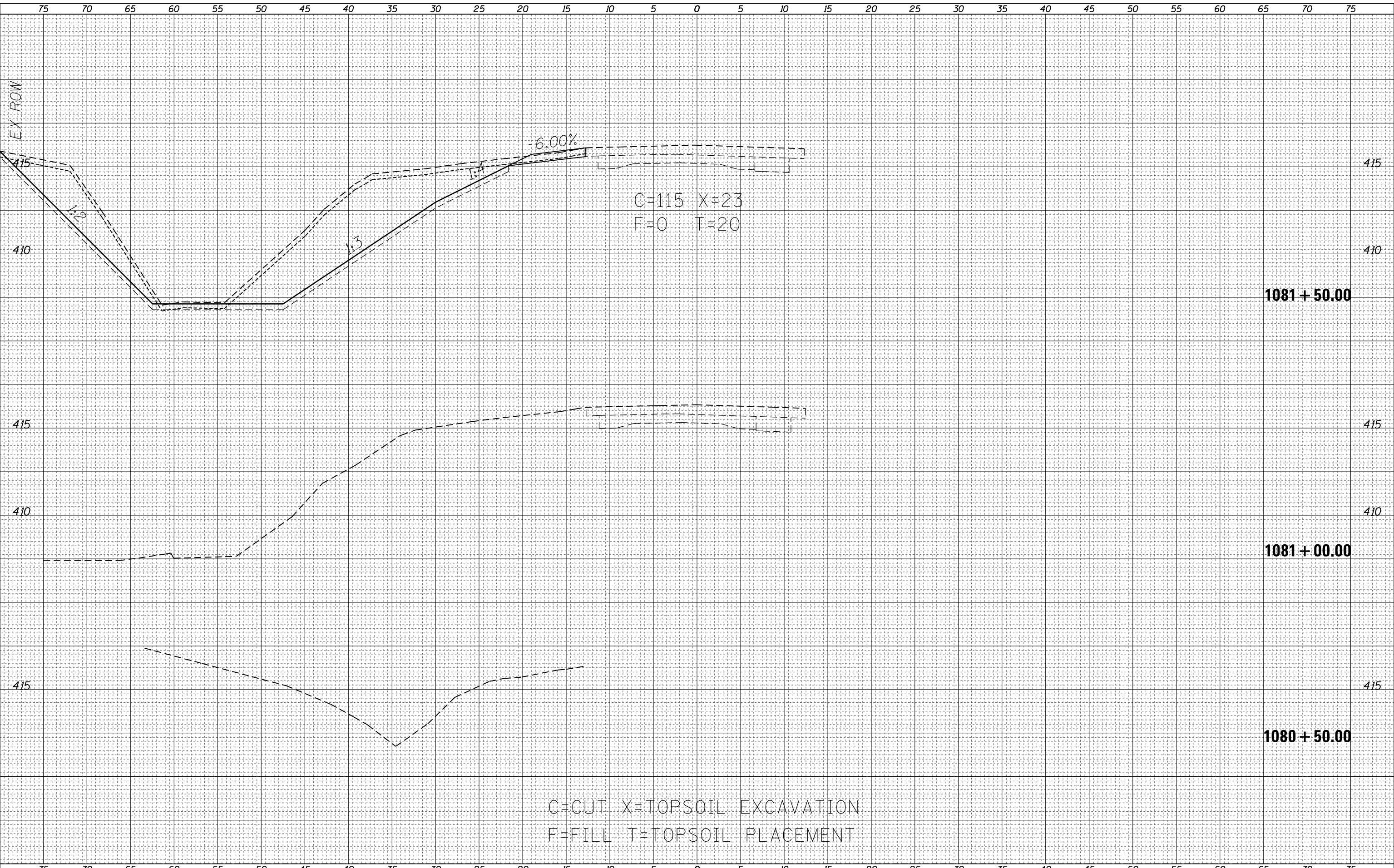
COUNTY Edwards DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>024-7033 (old 0008)</u> Station <u>1198+98</u>	D E P T H S	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. <u>444.64</u> ft		D E P T H S	B L O W S	U C S Qu	M O I S T T	
					Stream Bed Elev. <u>444.51</u> ft	Groundwater Elev.:					
BORING NO. <u>2 (North)</u> Station <u>1199+31</u> Offset <u>17.0ft Rt</u> Ground Surface Elev. <u>455.92</u> ft	(ft)	/6"	(tsf)	(%)			(ft)	/6"	(tsf)	(%)	
	6" aggregate shoulder. <u>455.42</u> Medium to very soft, damp, brown, SANDY LOAM.										
	3										
	2	1.0	14								
	2	B									
	-5	2					-25				
	2	0.5	14								
	2	BS									
	442.92 With trace Silt.										
	0										
	1	0.1	18								
	2	B									
	-10	4					-30				
	6	0.9	15								
	5	S									
	4										
	7	2.6	17								
	9	B									
	440.62 Very dense, moist, brown, CLAY LOAM SHALE.										
	-15	37					-35				
	50/2"		9								
	50/2"										
	440.21 Extent of exploration.										
Benchmark: BM 617 Chiseled square on top of SE wingwall of existing structure, Sta 1198+95, 20.9' Rt = 456.09' elevation.											
	-20						-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

SDATES \$TIMES

DESIGNED - IRENE PANTOJA	EXAMINED - <i>Joanne F. J. [Signature]</i>	DATE - SEPTEMBER 21, 2015	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS STRUCTURE NO. 024 - 7033</b>	F.A.P. RTE. <u>116</u>	SECTION <u>(7BY)B-1</u>	COUNTY <u>EDWARDS</u>	TOTAL SHEETS <u>72</u>	SHEET NO. <u>46</u>	
CHECKED - JOSUE D. ORTIZ-VARELA	PASSED - <i>Carl [Signature]</i>	REVISED - _____			SHEET NO. 12 OF 12 SHEETS					
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED - _____			ILLINOIS FED. AID PROJECT					
CHECKED - I.P. / J.O.V. / G.R.A.					CONTRACT NO. 74354					



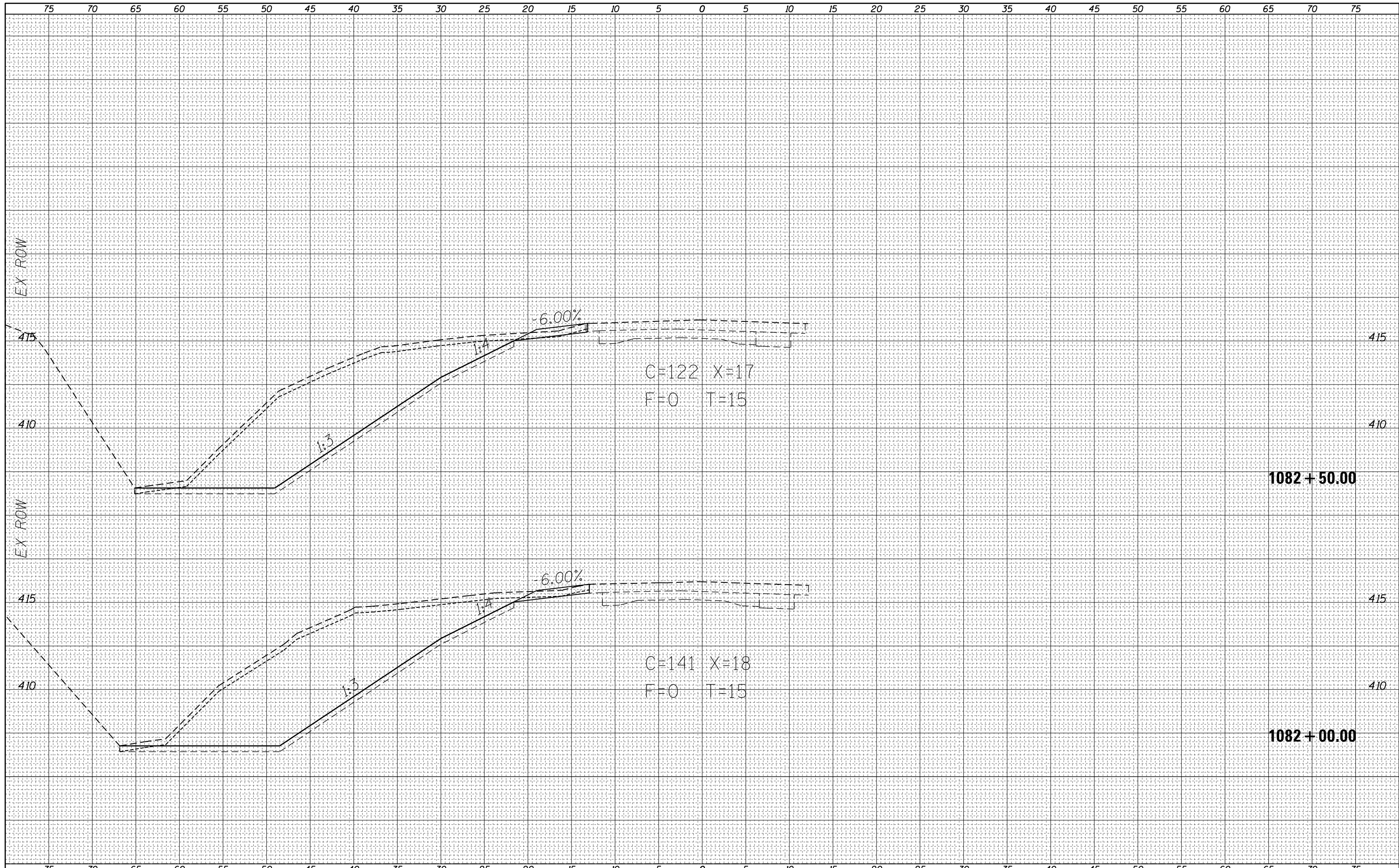
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 F=FILL T=TOPSOIL PLACEMENT

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BY	DATE

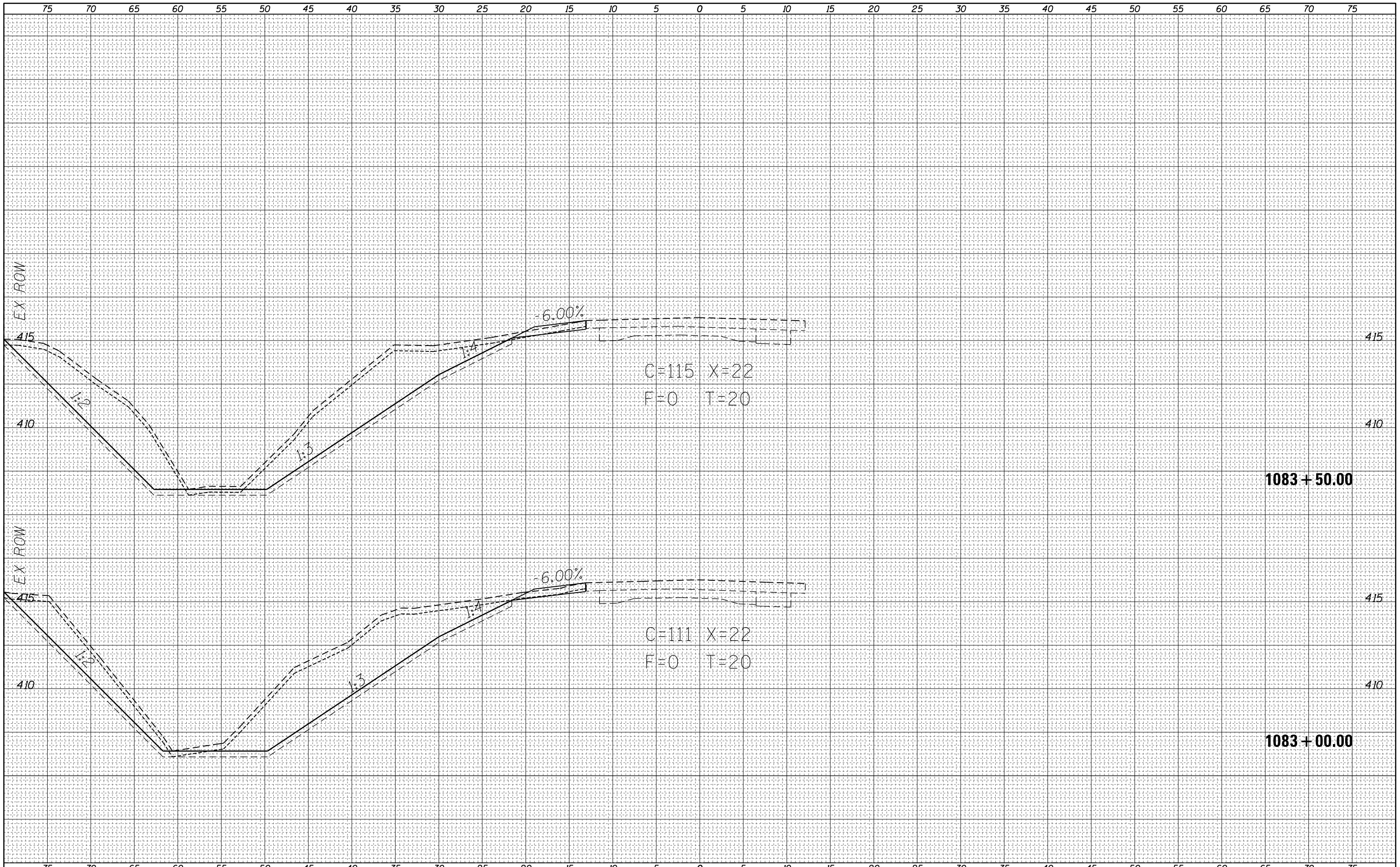
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NOTE BOOK	PLOTTED	
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					116	(7BR,7BY)B-1	Edwards	72	48
					CONTRACT NO. 74354				
					ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED	
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 REVISIONS -  
 CHECKED -  
 DATE -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - SOUTH CULVERT  
 SCALE: SHEET OF SHEETS STA. 1083+00.00 TO STA. 1083+50.00

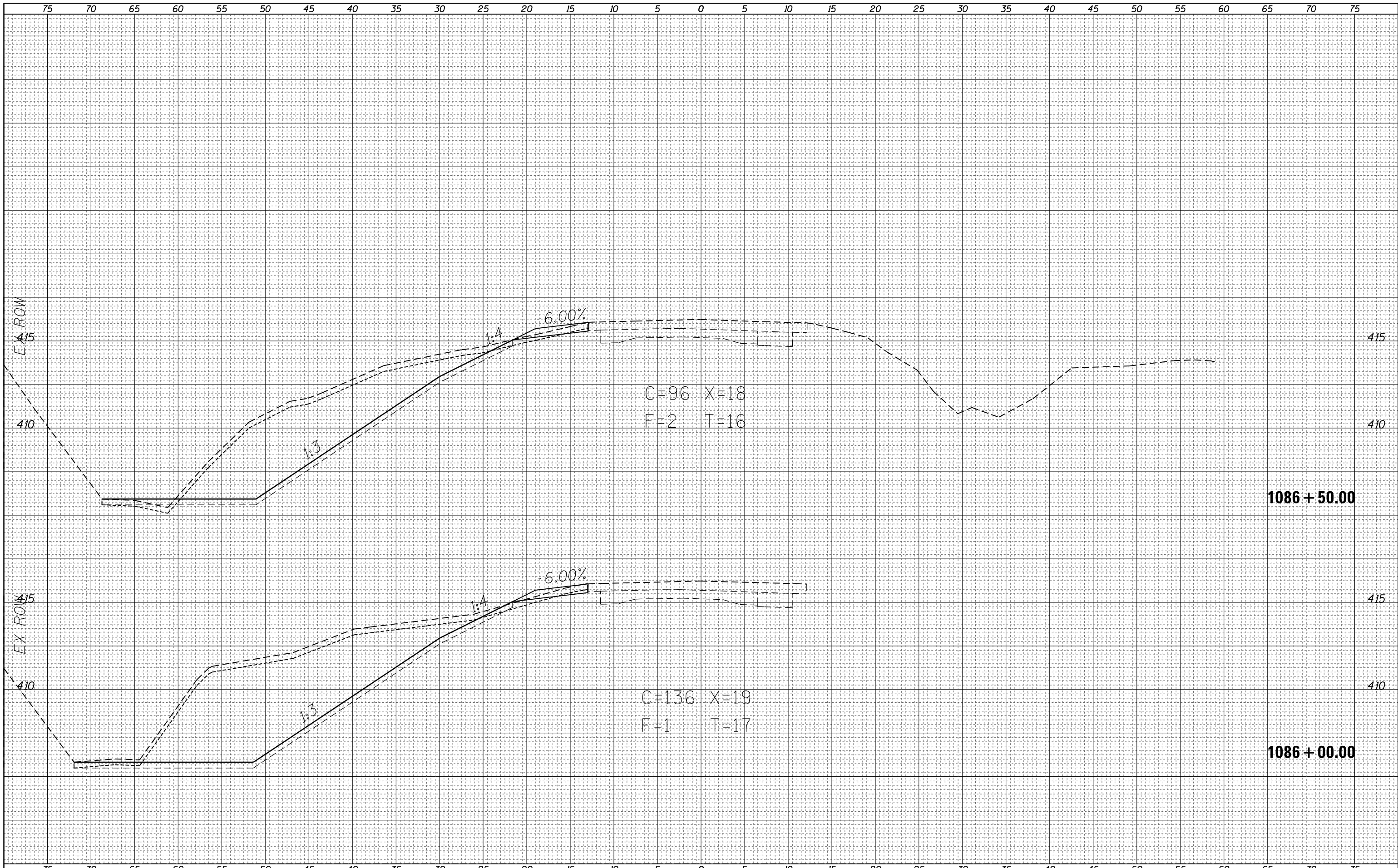
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CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	





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NOTE BOOK	PLOTTED
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		DATE -	REVISOR -
	PLOT DATE = 8/28/2015		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - SOUTH CULVERT**

SCALE: SHEET OF SHEETS STA. 1086+00.00 TO STA. 1086+50.00

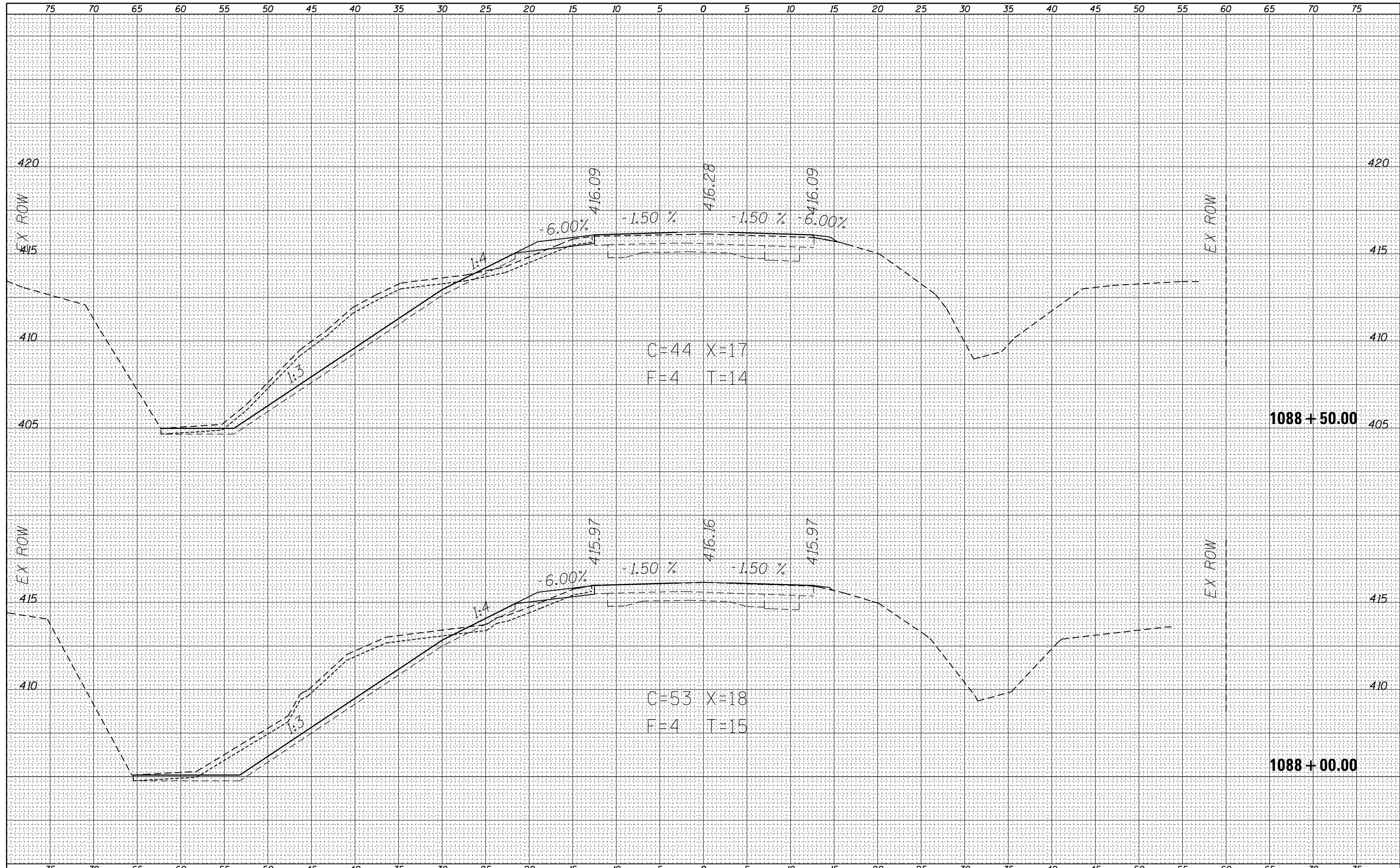
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116	(7BR,7BY)B-1	Edwards	72	52
		CONTRACT NO.	74354	
		ILLINOIS FED. AID PROJECT		





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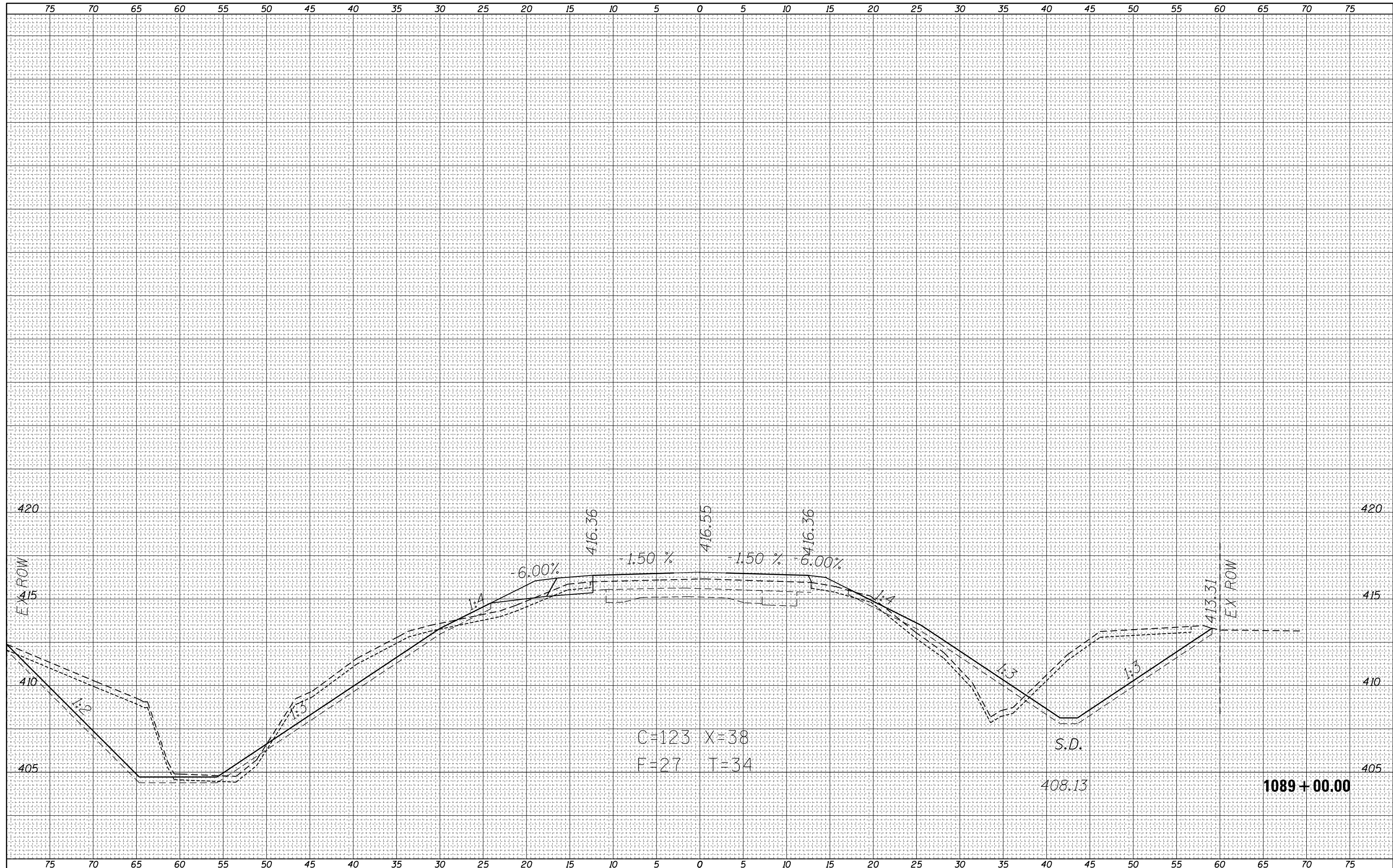


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SCALE: SHEET OF SHEETS STA. 1088+00.00 TO STA. 1088+50.00

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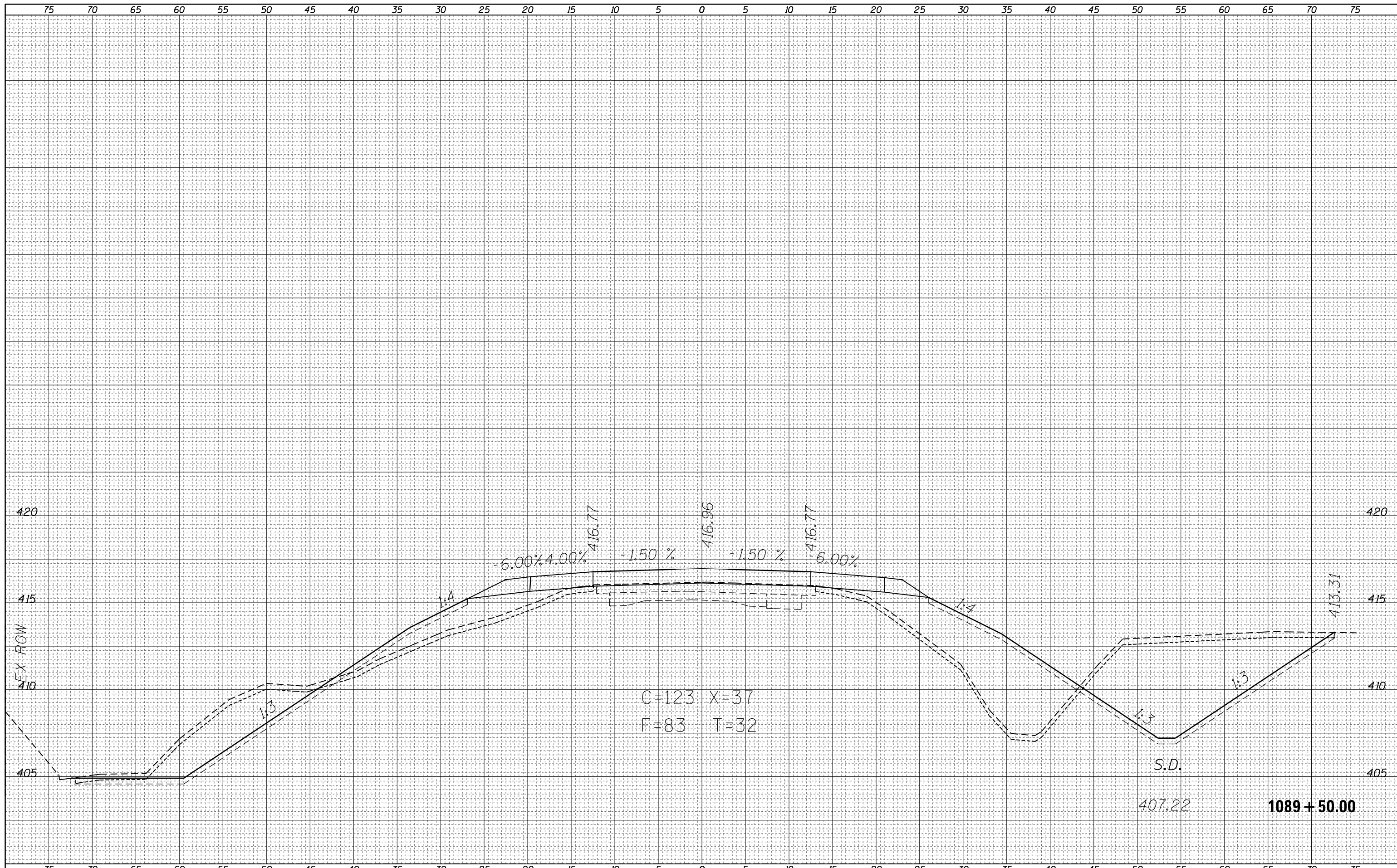
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - SOUTH CULVERT**  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	55
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	

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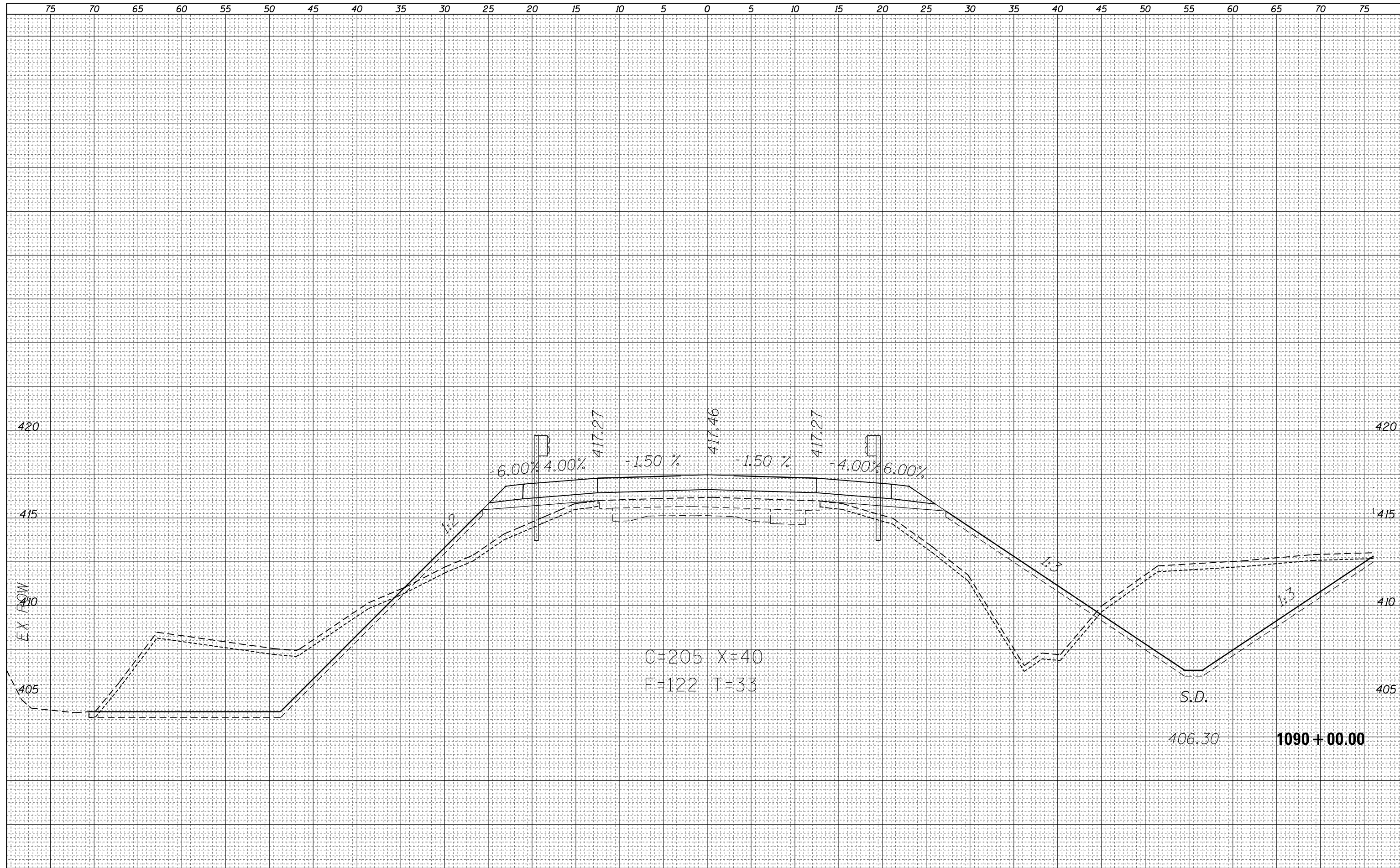
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						ILLINOIS FED. AID PROJECT				

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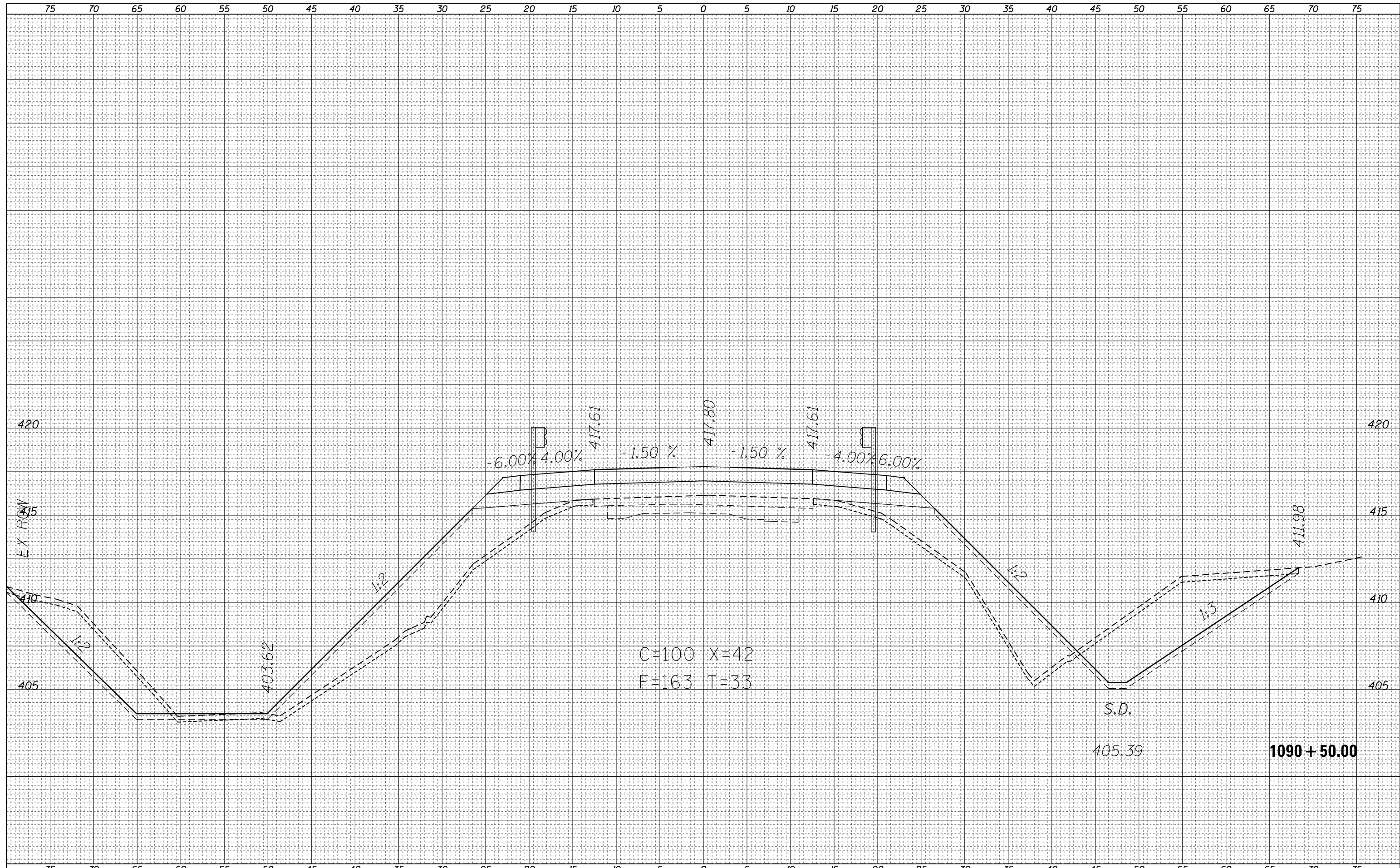
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NOTE BOOK AREAS CHECKED	

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PLOTTED TEMPLATE AREAS CHECKED	
NOTE BOOK AREAS CHECKED	



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		DATE -	REVISIED -			CONTRACT NO. 74354		ILLINOIS FED. AID PROJECT			
						SCALE:	SHEET OF SHEETS	STA. 1090+50.00 TO STA. 1090+50.00			

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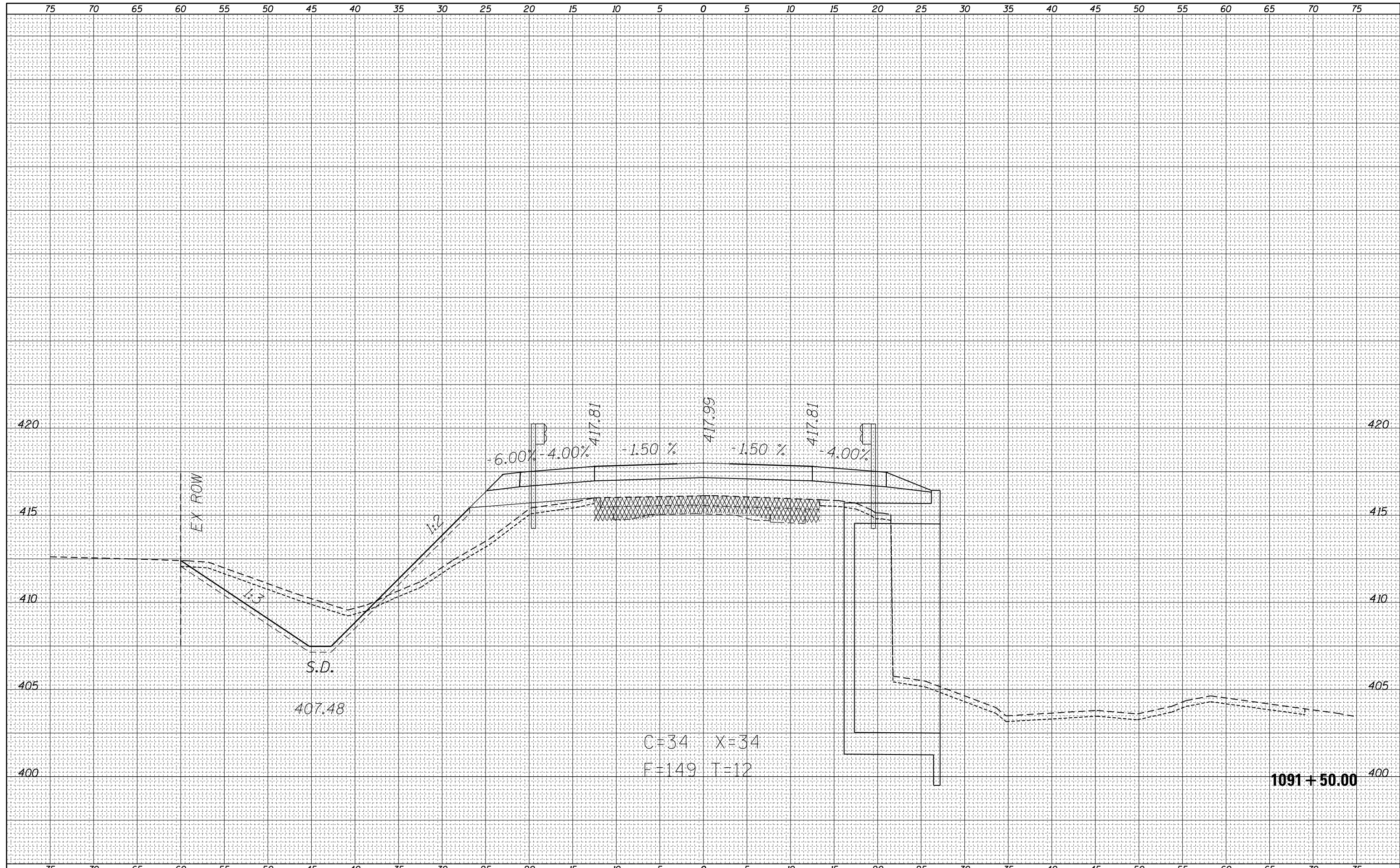
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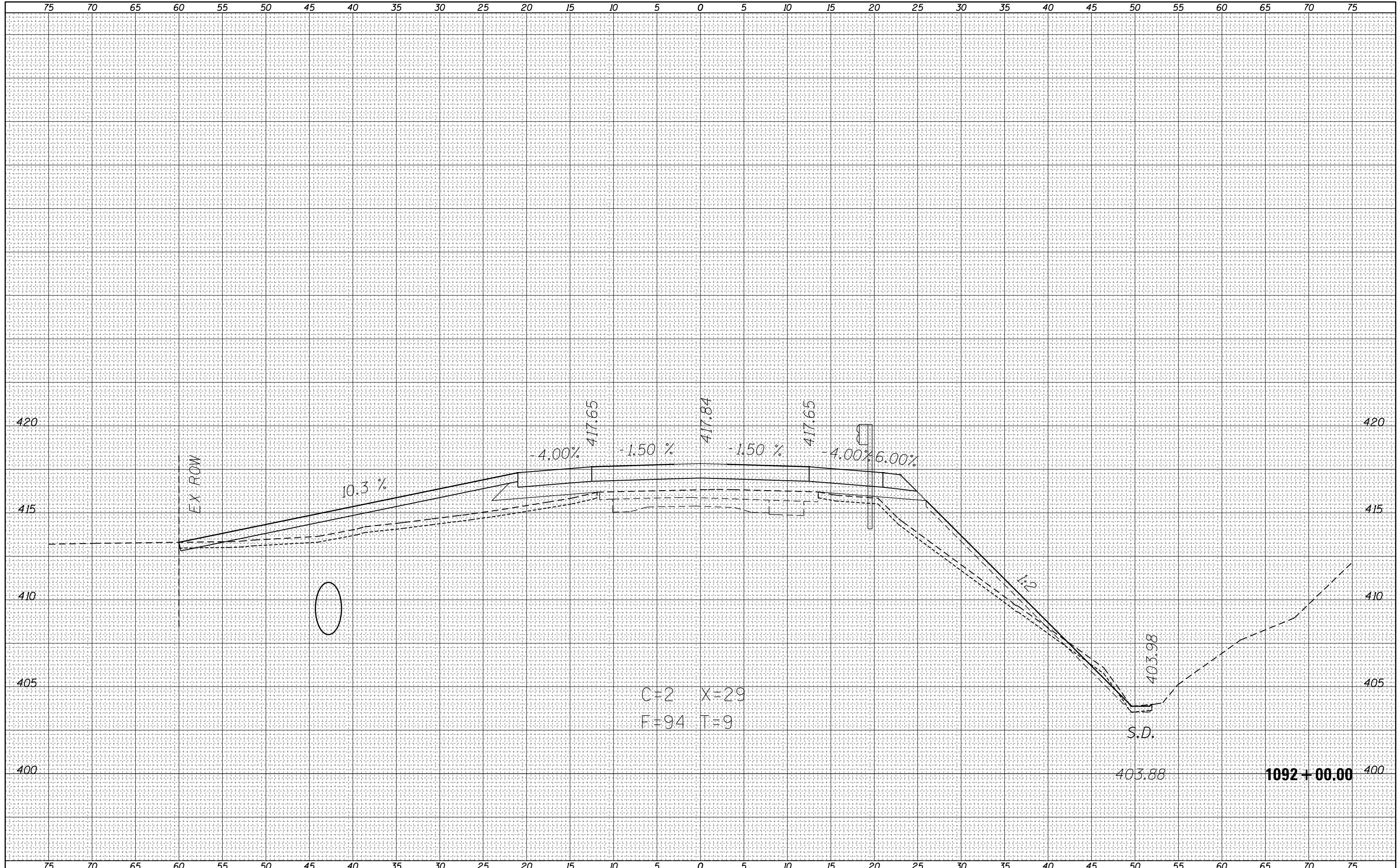
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 74354				
Default	DATE - 8/28/2015	DATE -	REVISIED -			SCALE: SHEET OF SHEETS STA. 1091+00.00 TO STA. 1091+00.00			ILLINOIS FED. AID PROJECT	

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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 74354				
Default	DATE -	REVISIED -	REVISIED -			SCALE: SHEET OF SHEETS STA. 1091+50.00 TO STA. 1091+50.00			ILLINOIS FED. AID PROJECT	



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - SOUTH CULVERT**

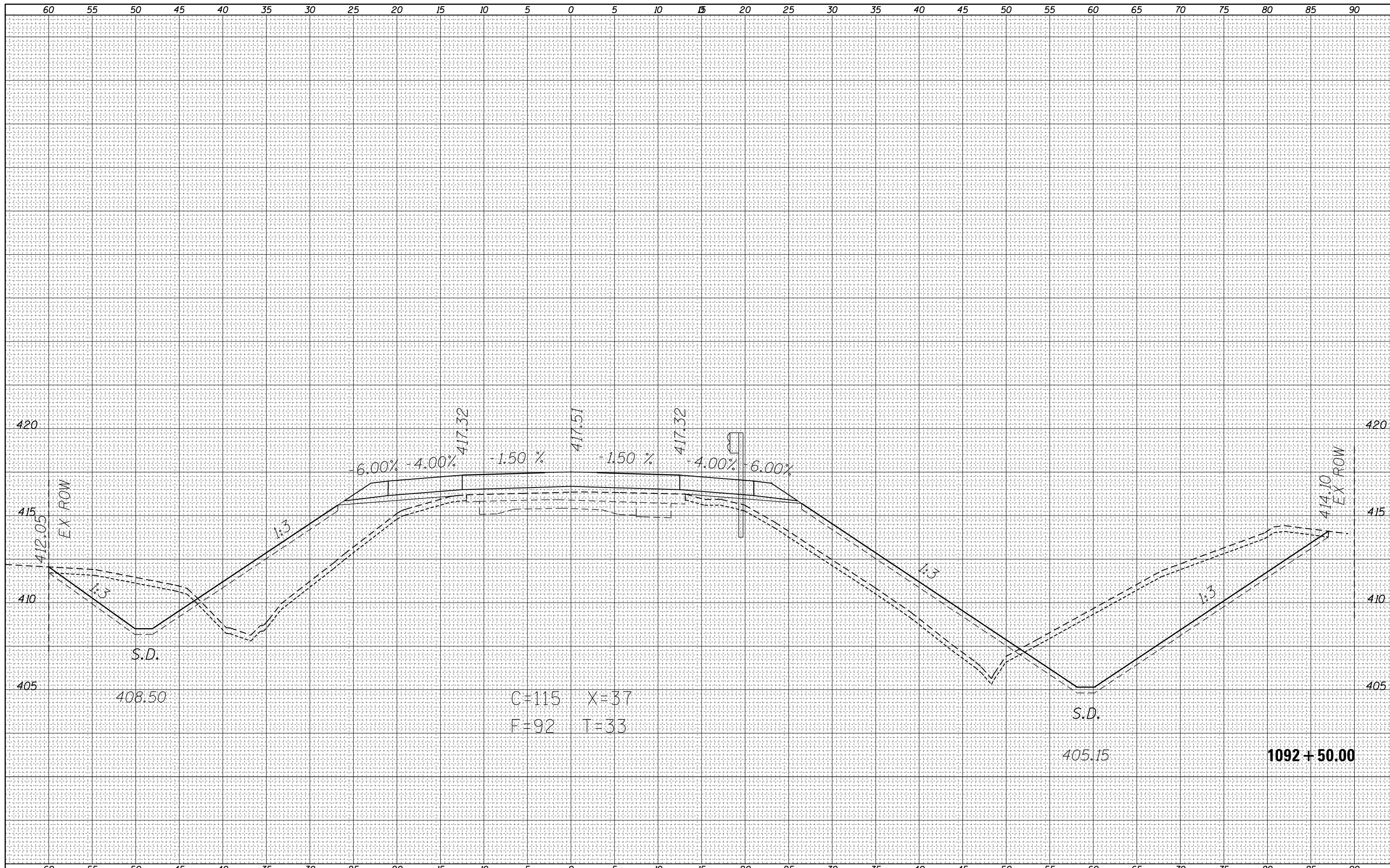
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	61
CONTRACT NO. 74354			ILLINOIS FED. AID PROJECT	



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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		8/28/2015	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

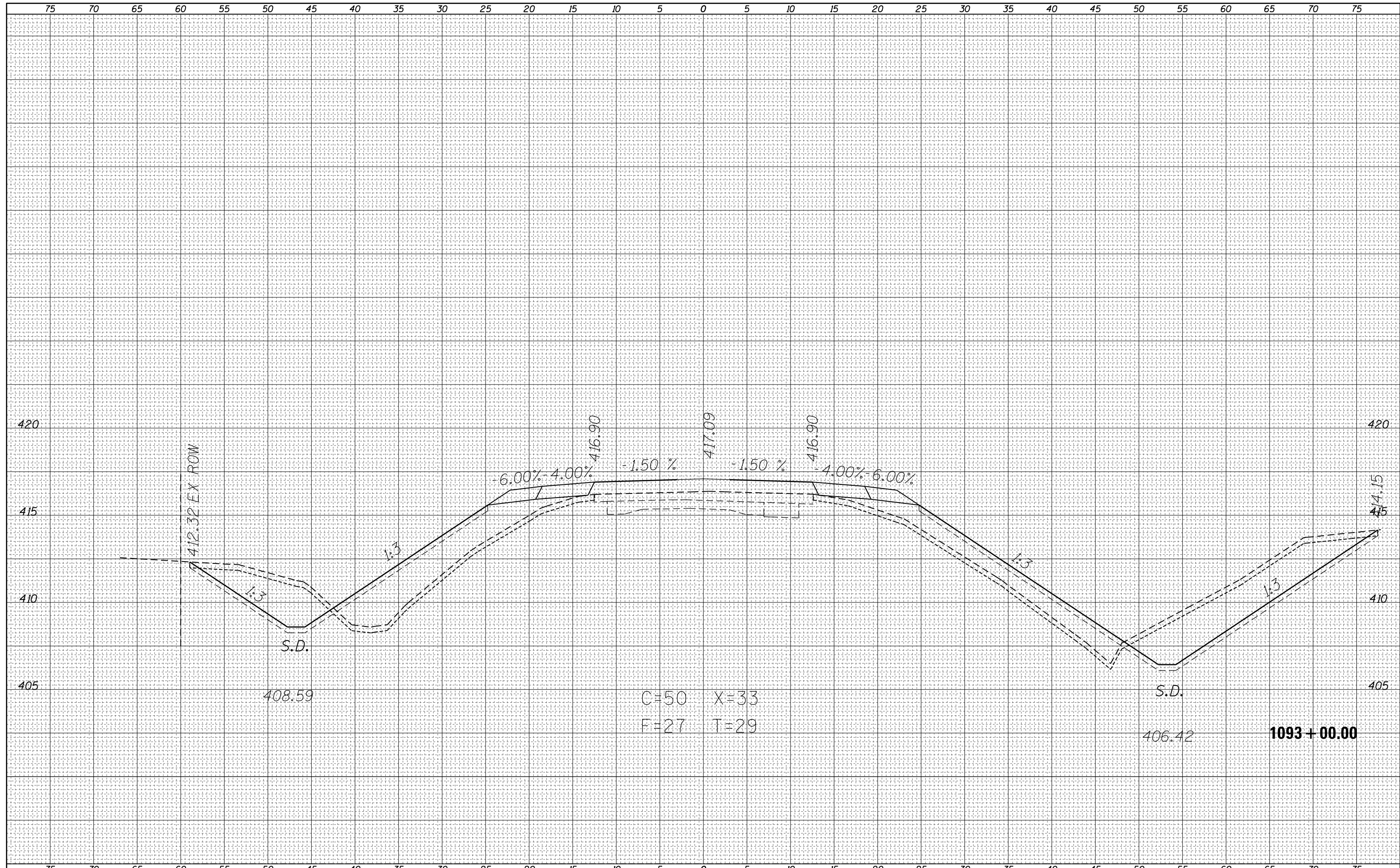
**CROSS SECTIONS - SOUTH CULVERT**

SCALE: SHEET OF SHEETS STA. 1092+50.00 TO STA. 1092+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	(7BR,7BY)B-1	Edwards	72	62
CONTRACT NO.			74354	
ILLINOIS FED. AID PROJECT				

DATE	
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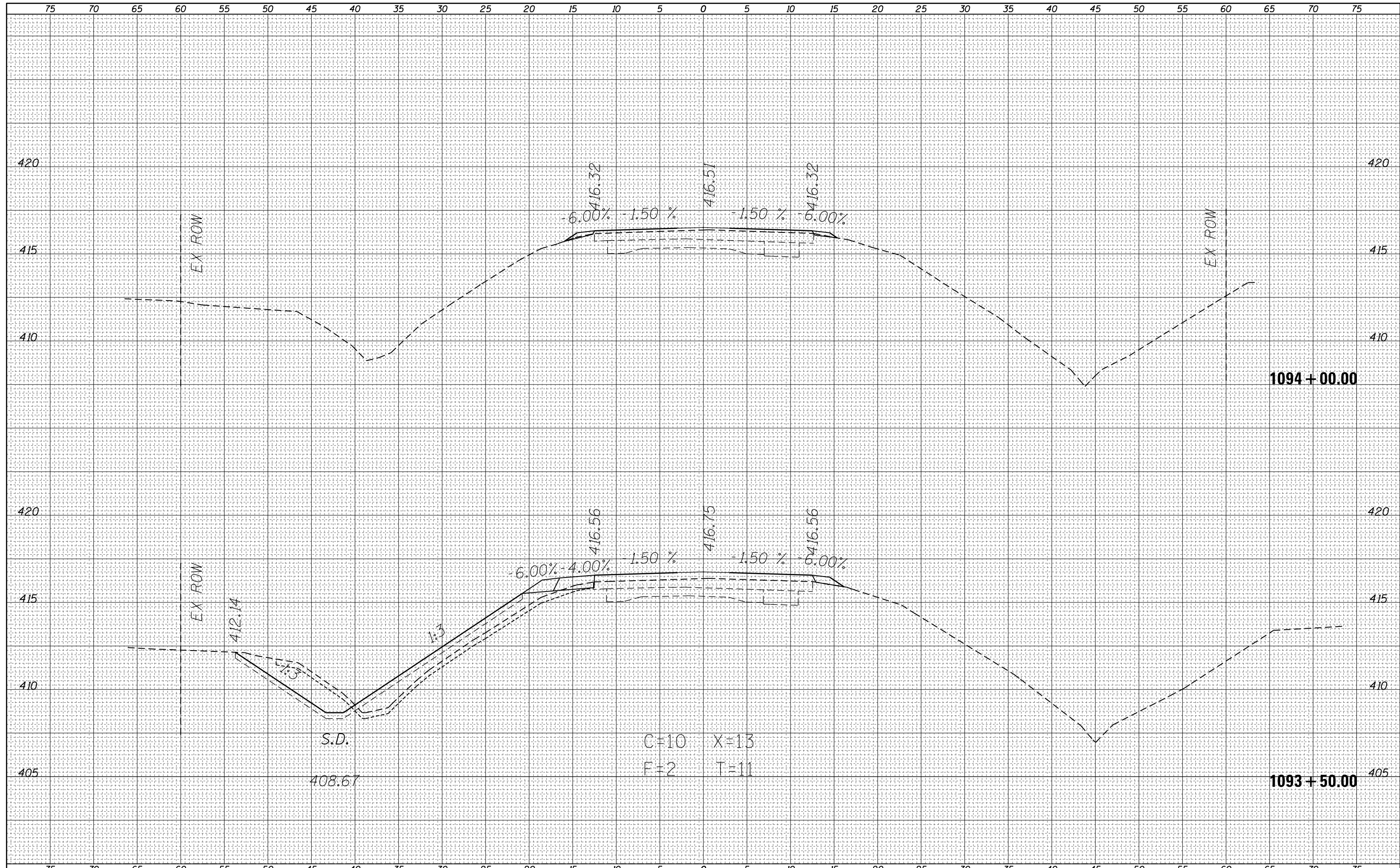
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	PLOT DATE = 8/28/2015					SCALE: SHEET OF SHEETS STA. 1093+00.00 TO STA. 1093+00.00			ILLINOIS FED. AID PROJECT	

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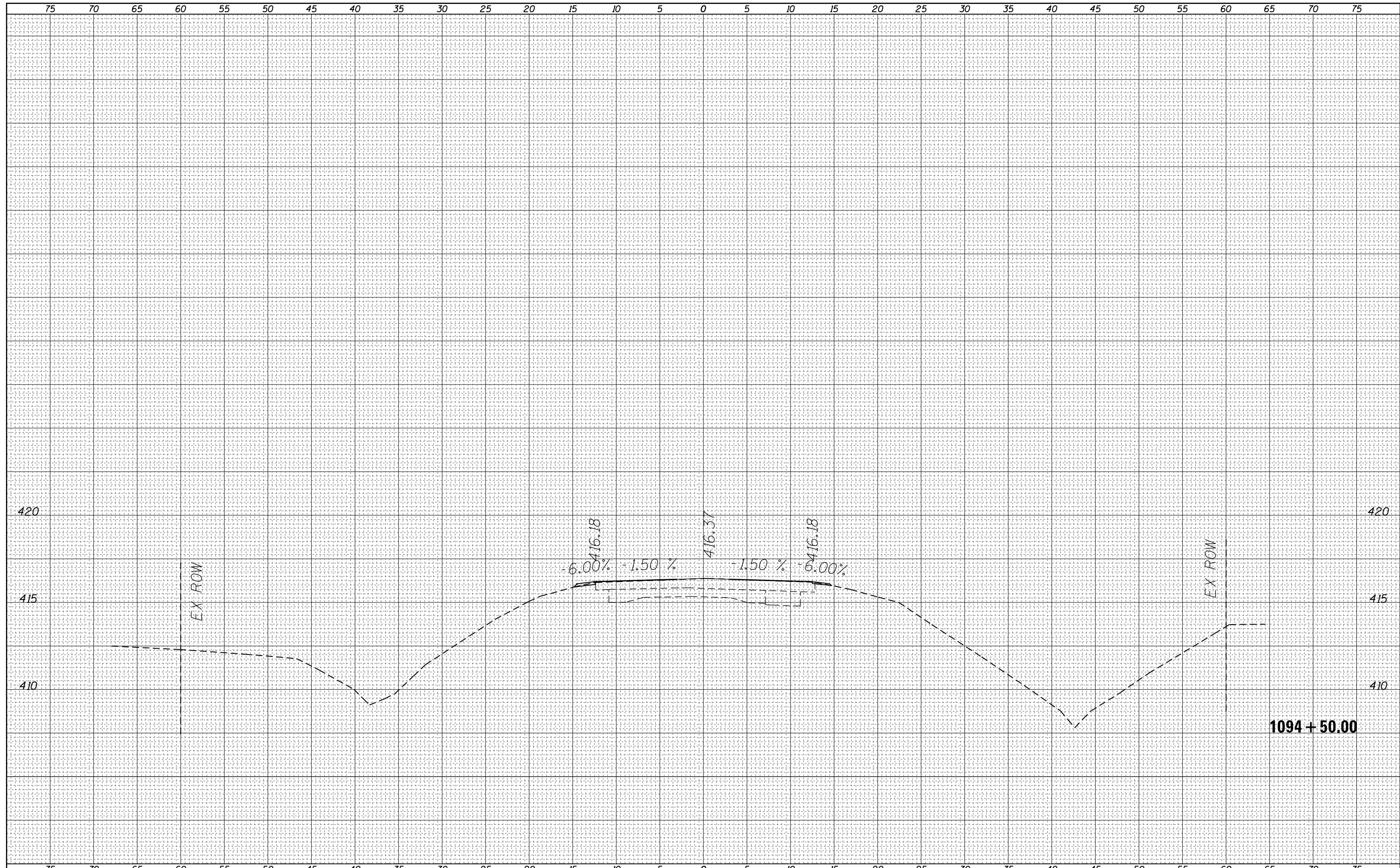
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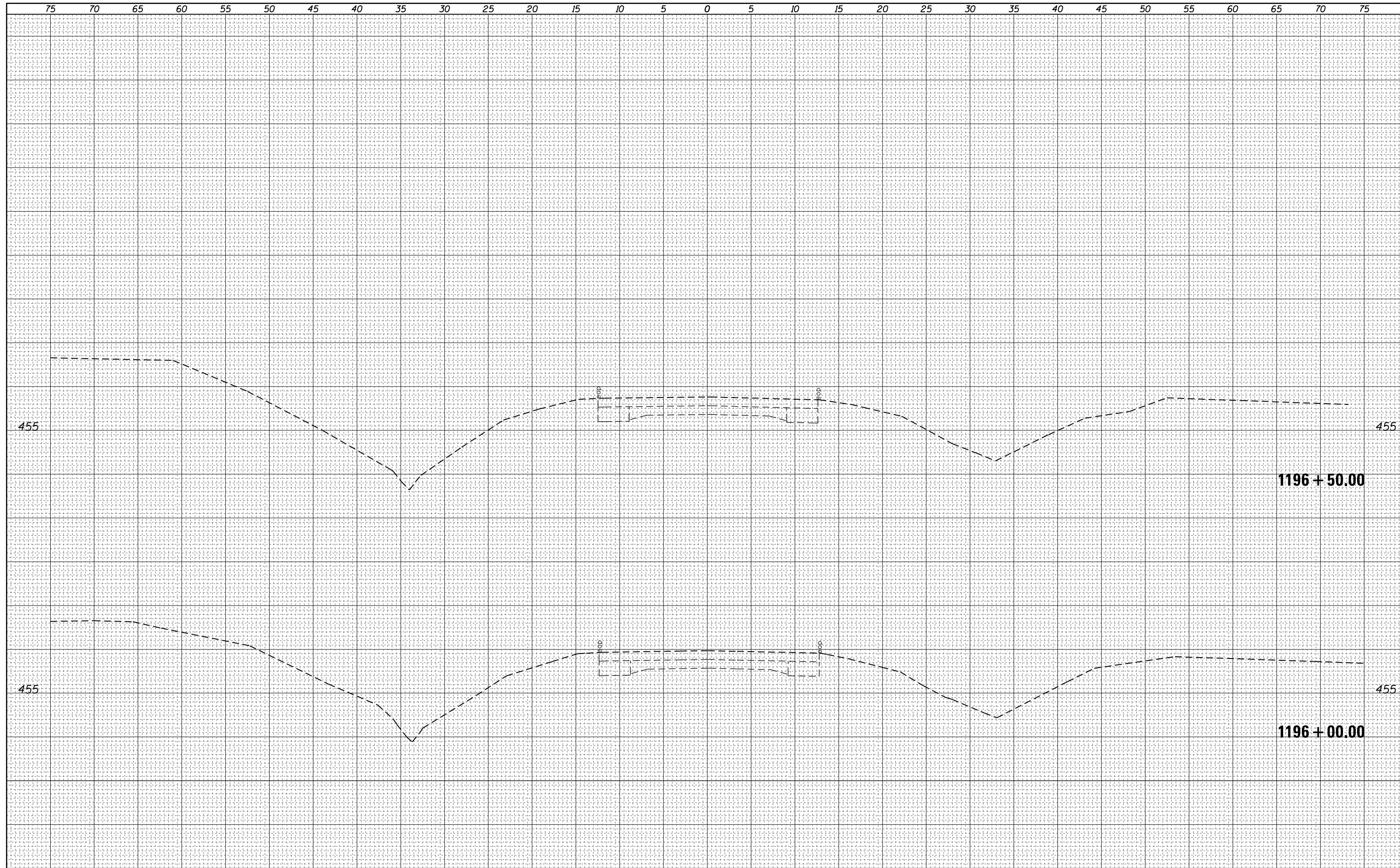
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BY	DATE
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NOTE BOOK	PLOTTED
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	AREAS CHECKED

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

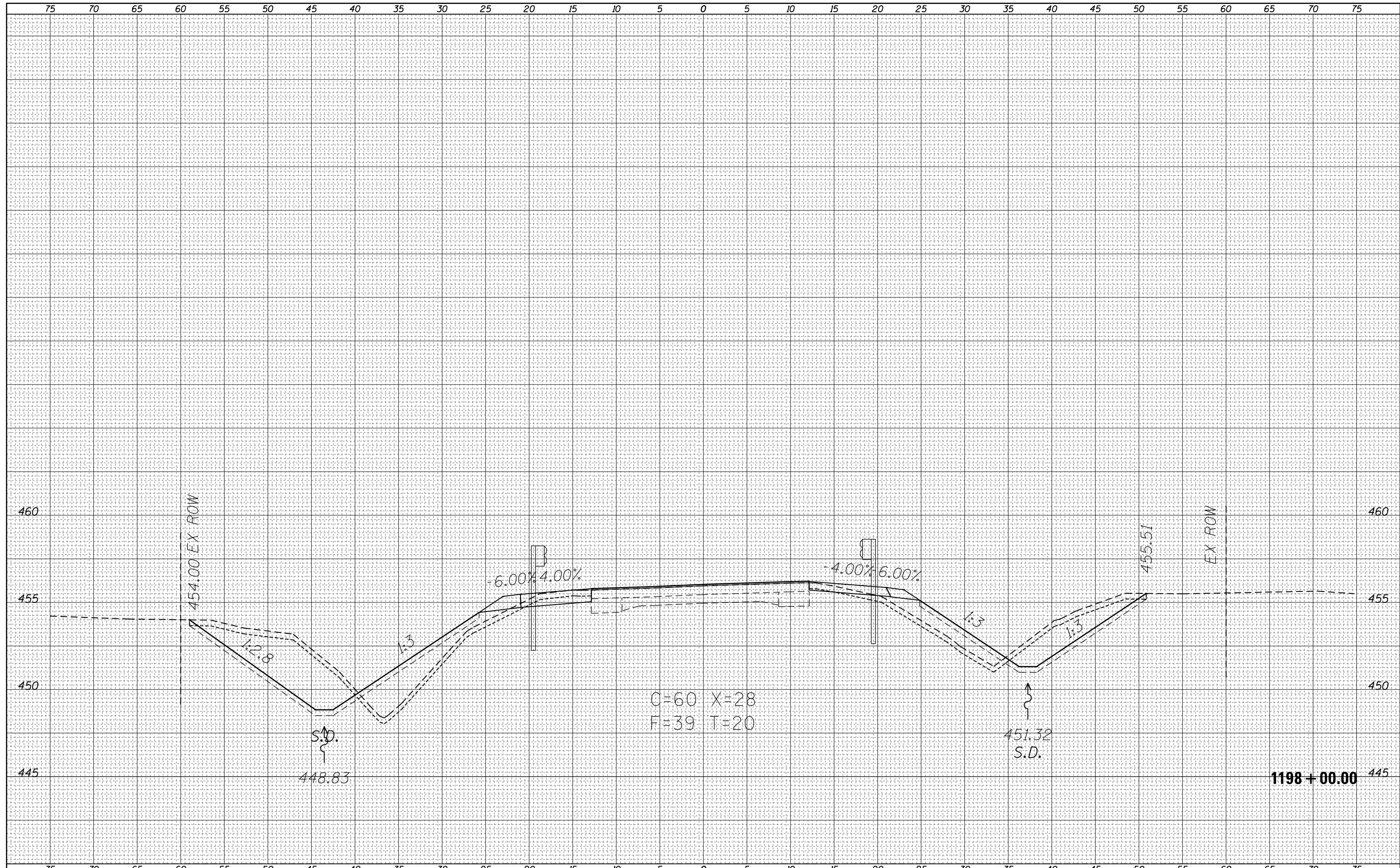


FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -			CONTRACT NO. 74354					
Default	DATE - 8/28/2015	REVISIED -	REVISIED -			SCALE:	SHEET OF SHEETS	STA. 1196+00.00 TO STA. 1196+50.00	ILLINOIS FED. AID PROJECT		



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

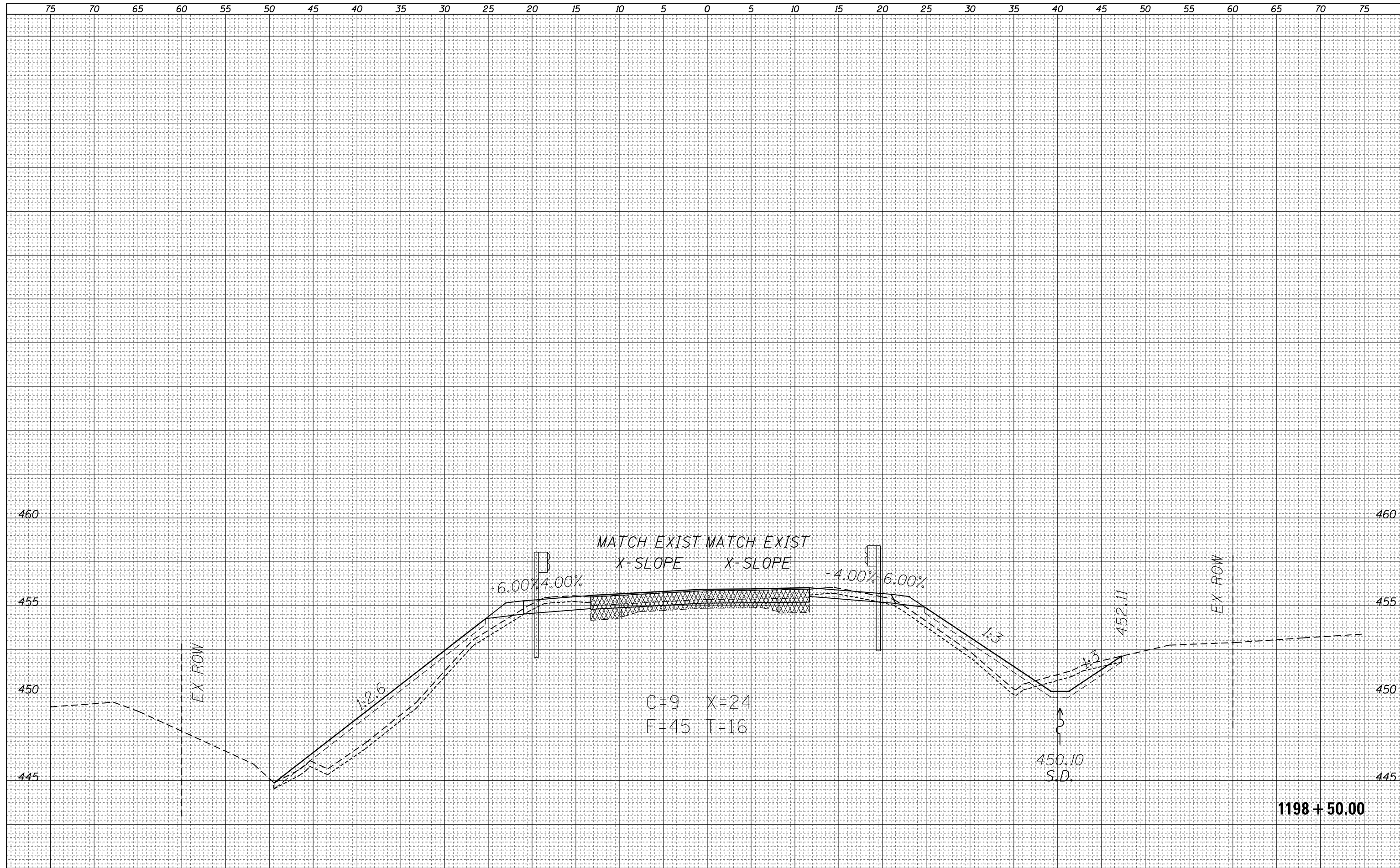
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	DOT Offices\District 7\Projects\74354\CADD\Drawings\Drawings\74354-sht-xssht2.dgn	REVISIED -	REVISIED -			116	(7BR,7BY)B-1	Edwards	72	68
	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			CONTRACT NO. 74354				
	PLOT DATE = 8/28/2015	DATE -	REVISIED -			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET	OF	SHEETS	STA. 1198+00.00	TO STA. 1198+00.00

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

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

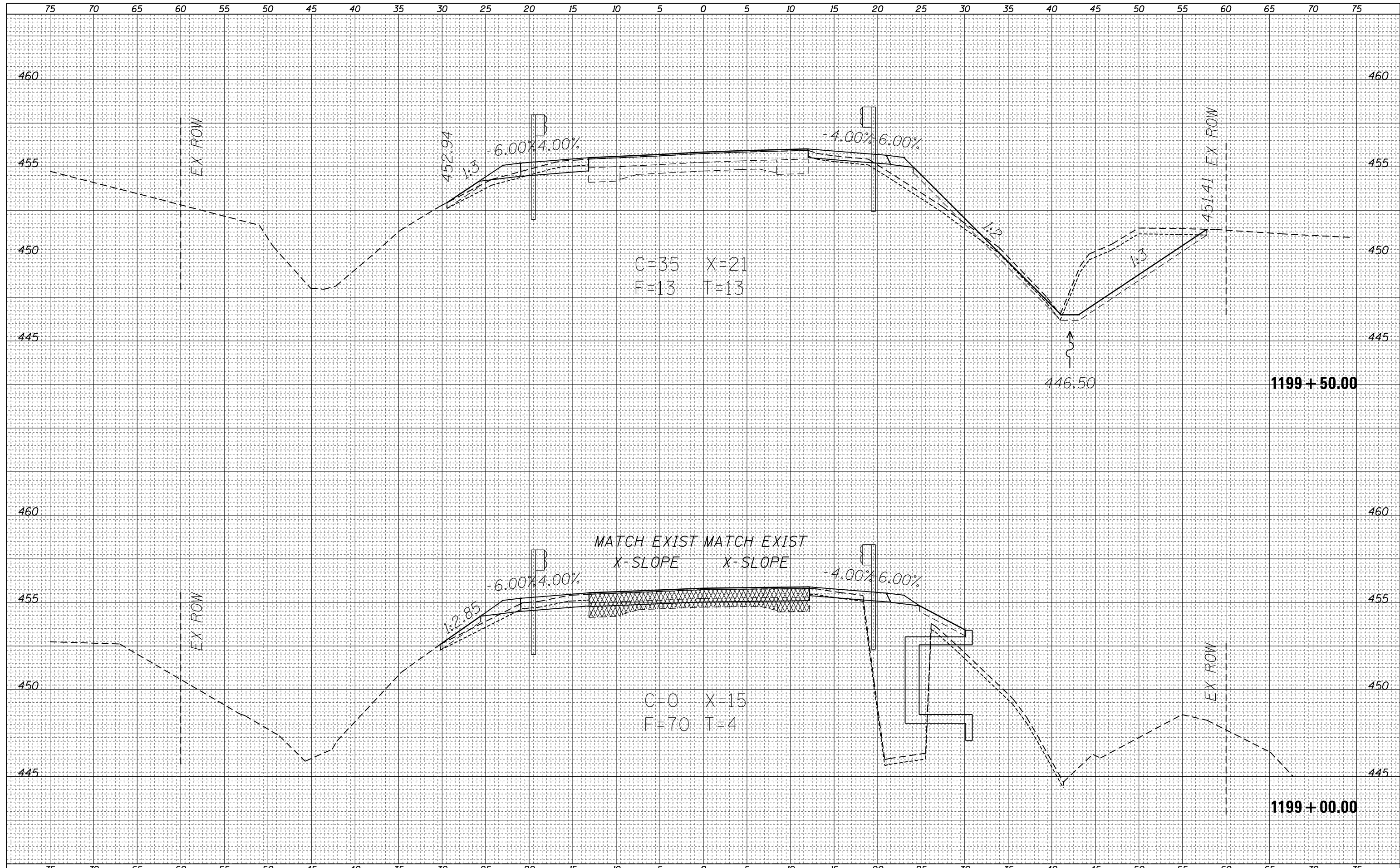


FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CULVERT</b>	F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	116	(7BR,7BY)B-1	Edwards			72	69			
						CONTRACT NO. 74354				
						ILLINOIS FED. AID PROJECT				



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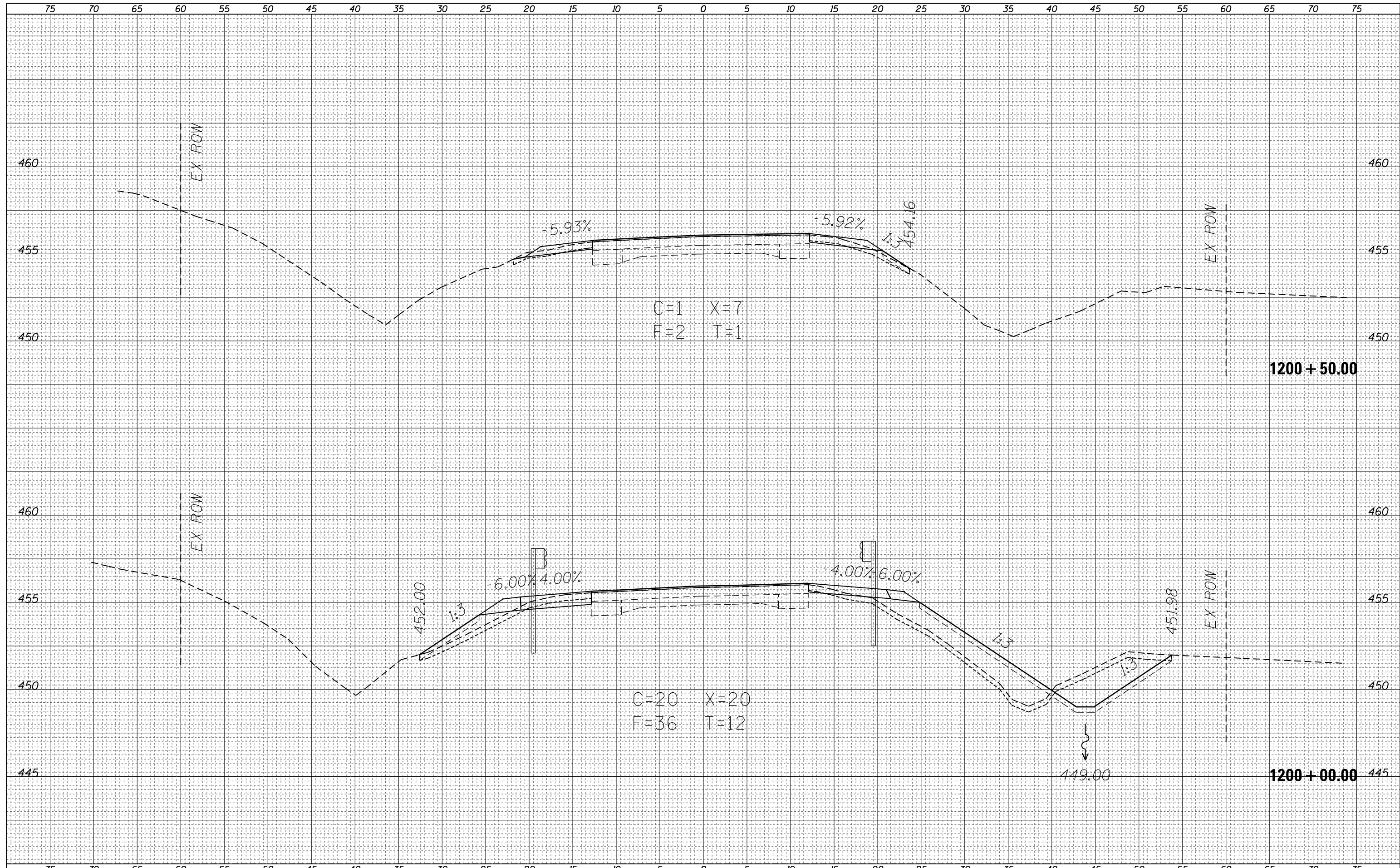
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CULVERT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	DOT Offices\District 7\Projects\74354\CADD\Drawings\Drawings\74354-sht-xssht2.dgn	CHECKED -	REVISIED -			116	(7BR,7BY)B-1	Edwards	72	70
	PLOT SCALE = 10.0000' / in.	DATE -	REVISIED -			CONTRACT NO. 74354				
	PLOT DATE = 8/28/2015					ILLINOIS FED. AID PROJECT				
SCALE: SHEET OF SHEETS STA. 1199+00.00 TO STA. 1199+50.00										

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

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

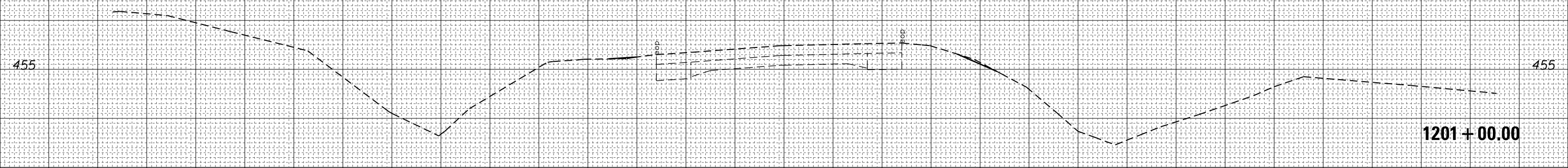


FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISIED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - NORTH CULVERT</b>	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	DOT Offices\District 7\Projects\74354\CADD\Drawings\Drawings\74354-sht-ssht2.dgn	CHECKED -	REVISIED -			116	(7BR,7BY)B-1	Edwards	72	71
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	PLOT DATE = 8/28/2015					ILLINOIS FED. AID PROJECT				

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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



FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISIED -	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	CONTRACT NO. 74354				
	PLOT DATE = 8/28/2015	DATE -	REVISIED -	SCALE: SHEET OF SHEETS STA. 1201+00.00 TO STA. 1201+00.00				
								ILLINOIS FED. AID PROJECT

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - NORTH CULVERT**