

04-26-13 LETTING ITEM 078

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAS 1536 & FAU 7464 (IL 48)
SECTION (125,126,126R)RS-2&(126BR)B
PROJECT ACRS-ACM-005(911)
**BOX CULVERT REPLACEMENT AND RESURFACING (3P)
MACON AND PIATT COUNTY**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STRUCTURE OMISSION
STA. 614+89 TO STA. 617+34

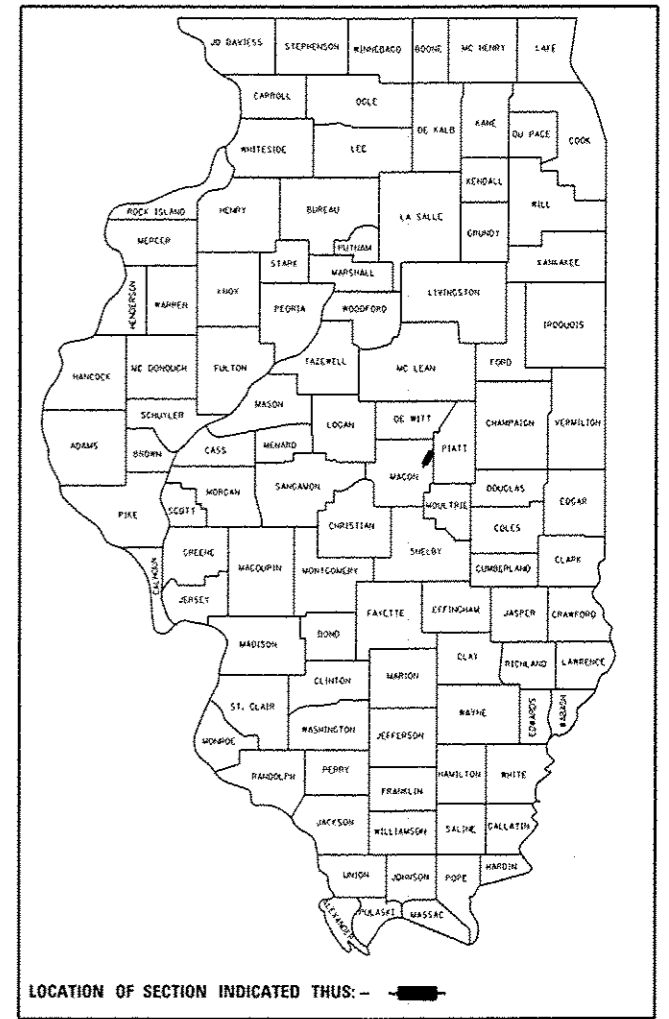
RAILROAD OMISSION
STA. 804+69.9 TO STA. 804+78.6

ADT = 3000

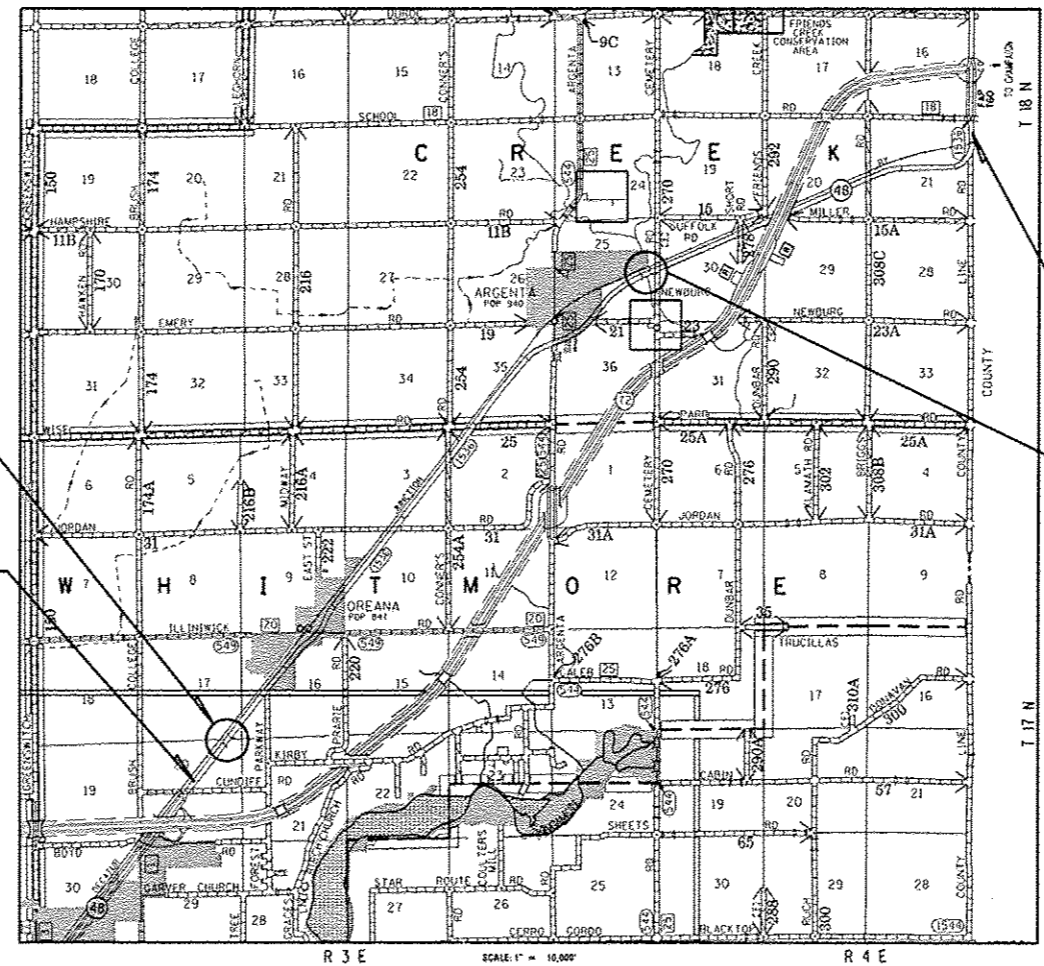
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	*	MACON, PIATT	44	1
		ILLINOIS	CONTRACT NO. 74156	

*(125,126,126R)RS-2&(126BR)B
**FAS 1536 & FAU 7464

D-97-027-06



C-97-058-06

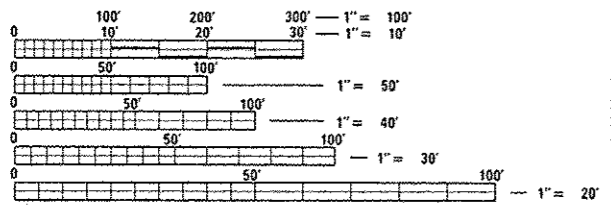


STA 290+06
SN 058-2012
DOUBLE 10'x4'x88.25'
CAST IN PLACE
CONCRETE BOX CULVERT

PROJECT ENDS
STA. 816+92

STRUCTURE OMISSION
STA 614+89 TO STA 617+34

PROJECT BEGINS
STA. 258+22



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: JOYCE HEMMEN
PHONE: (217)-342-8329
CONTRACT NO. 74156

GROSS LENGTH = 55870.0 FT. = 10.581 MILE
NET LENGTH = 55587.0 FT. = 10.528 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 19 20 12
Roy L. Distefano
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 22 20 13
John D. Baranzocchi P.E. JR.
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 20 13
Omer Osman P.E. JR.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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GENERAL NOTES

THE PROPOSED PROJECT IS LOCATED ON FAS 1536 AND FAU 7464 (ILL 48) IN MACON AND PIATT COUNTIES. SECTION (125,126,126R)RS-2&(126BR)B BEGINS NORTH OF CUNDIFF ROAD LINE AND EXTENDS NORTHWARD FOR ABOUT 10.58 MILES TO JUST NORTH OF THE MACON/PIATT COUNTY LINE. THE WORK CONSISTS OF BOX CULVERT REMOVAL AND REPLACEMENT, PAVEMENT PATCHING, HMA SURFACE REMOVAL, HMA RESURFACING, HMA SAFETY EDGE, HMA SHOULDERS AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT ITEMS.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

BITUMINOUS MATERIALS (PRIME COAT) SHALL BE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP OR SS-1H.

THE COST OF REMOVAL OF TEMPORARY RAMP SHALL BE INCLUDED IN THE UNIT PRICE FOR TEMPORARY RAMP.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

AGGREGATE SURFACE COURSE TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

VIBRATORY ROLLERS WILL NOT BE ALLOWED WITHIN THE VILLAGE LIMITS OF ARGENTA AND OREANA BUT DENSITY REQUIREMENTS REMAIN THE SAME.

THE HMA SURFACE REMOVAL AND RESURFACING SHALL BE DONE IN A MANNER THAT DOES NOT RESULT IN A GREATER ELEVATION DIFFERENTIAL BETWEEN OPEN LANES THAN ALLOWED BY ARTICLE 701.07 OF THE STANDARD SPECIFICATIONS.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE FIRST LIFT OF HOT-MIX ASPHALT AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS.

THE PRARIE AREAS DESIGNATED ON THE LOCATION MAP IN THE PLANS AND BY SIGNS ON THE PROJECT, SHALL BE PROTECTED BY THE CONTRACTOR. THIS AREA SHALL NOT BE DISTURBED BY EQUIPMENT OR MATERIALS.

EXCAVATION OF EARTH NECESSARY TO REMOVE OF THE EXISTING BOX CULVERT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

TEMPORARY CONCRETE BARRIER SHALL BE PINNED DURING STAGE 1 AND STAGE 2 CONSTRUCTION FROM STATION 289+60 TO 290+50. PINNING OF THE CONCRETE BARRIER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE: LEVEL BINDER (3/4")
APPLICATION: Leveling Binder (Machine Method) N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-9.5
FRICTION AGGREGATE: N/A

MIXTURE USE: HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 12-1/2" BINDER
APPLICATION: Hot-Mix Asphalt Binder Course, IL-19.0, N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: SURFACE COURSE (1 1/2")
APPLICATION: Hot-Mix Asphalt Surface Course, Mix "C" N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-9.5
FRICTION AGGREGATE: Mixture C

MIXTURE USE: HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 12-1/2" SURFACE
APPLICATION: Hot-Mix Asphalt Surface Course, Mix "C" N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-9.5
FRICTION AGGREGATE: Mixture C

MIXTURE USE: INCIDENTAL HOT MIX ASPHALT SURFACE
APPLICATION: Hot-Mix Asphalt Surface Course, Mix "C", N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-9.5
FRICTION AGGREGATE: Mixture C

MIXTURE USE: BASE COURSE WIDENING, 8"
APPLICATION: Hot-Mix Asphalt Binder Course, IL-19.0, N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: CLASS D PATCHING
APPLICATION: Hot-Mix Asphalt Binder Course, IL-19.0, N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: HOT-MIX ASPHALT BINDER COURSE (NEAR BOX CULVERT)
APPLICATION: Hot-Mix Asphalt Binder Course, IL-19.0, N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

MIXTURE USE: HOT-MIX ASPHALT SHOULDERS
APPLICATION: Hot-Mix Asphalt Surface Course, N30 C, IL 9.5L
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 30
MIXTURE COMPOSITION: IL-9.5L
FRICTION AGGREGATE: N/A

MIXTURE USE: PARTIAL DEPTH PATCHING
APPLICATION: Hot-Mix Asphalt Binder Course, IL-19.0, N70
PG GRADE: PG 64-22
RAP %:
DESIGN AIR VOIDS: 4.0% @ Ndesign = 70
MIXTURE COMPOSITION: IL-19.0
FRICTION AGGREGATE: N/A

INDEX OF SHEETS

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1	COVER SHEET
2	INDEX OF SHEETS, LIST OF APPLICABLE HIGHWAY STANDARDS, GENERAL NOTES
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16	PAVING SCHEDULE
17	PARTIAL DEPTH PATCHING SCHEDULE
18	MISCELLANEOUS SCHEDULES
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28-29	DETAILS
30-37	CULVERT DETAILS
38-44	CROSS SECTION SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 44:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS. W/ RESURFACING OR WIDENING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/BIT STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF ROAD OPERATIONS, 2L 2W, MORE THAN 15' AWAY
701006-04	OFF ROAD OPERATIONS, 2L 2W, 15'-24" FROM PAVEMENT
701011-03	OFF-ROAD MOVING OPERATIONS, 2L 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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	PLOT SCALE: 100:8000 1/4" = 1'	CHECKED: -	REVISED: -								CONTRACT NO. 74156		
	PLOT DATE: 10/30/2012	DATE: -	REVISED: -								ILLINOIS FED. AID PROJECT		

*125,126,126R)RS-2&(126BR)B
**FAS 1536 & FAU 7464

ILLINOIS DEPARTMENT OF TRANSPORTATION			80% FED. 20% STATE TOTAL QUANTITIES	ACM M231		ACRS M232			
CODE NO	ITEM	UNIT		0005 MACON URBAN FAU 7464	0011 MACON URBAN FAU 7464	0005 MACON RURAL FAS 1536	0005 PIATT RURAL FAS 1536		
20200100	EARTH EXCAVATION	CU YD	255	255					
20200500	EARTH EXCAVATION (WIDENING)	CU YD	94	94					
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	1015	272	715	28			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	174.8	174.8					
20400800	FURNISHED EXCAVATION	CU YD	202	202					
20700220	POROUS GRANULAR EMBANKMENT	CU YD	737	737					
28100107	STONE RIPRAP, CLASS A4	SO YD	34.4	34.4					
28200200	FILTER FABRIC	SO YD	34.4	34.4					
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	SO YD	423	423					
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	121	41	79	1			
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	32109	8993	22302	814			
40600300	AGGREGATE (PRIME COAT)	TON	647	180	450	17			
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	6653	1779	4703	171			
40600895	CONSTRUCTING TEST STRIP	EACH	1	1					

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PLOT DATE : 10/30/2012			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**		Macon, Piatt	44	3
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

*125,126,126R1RS-2&126BR1B
**FAS 1536 & FAU 7464

ILLINOIS DEPARTMENT OF TRANSPORTATION			80% FED 20% STATE TOTAL QUANTITIES	ACM M231		ACRS M232			
CODE NO	ITEM	UNIT		0005 MACON URBAN FAU 7464	0011 MACON URBAN FAU 7464	0005 MACON RURAL FAS 1536	0005 PIATT RURAL FAS 1536		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	404	101			303		
40600990	TEMPORARY RAMP	SO YD	494	314		72	108		
40603085	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	TON	812	812					
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	14523	4009		10139	375		
40701961	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	SO YD	205	205					
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	402	179		222	1		
44000151	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	SO YD	155607	42360		109176	4071		
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	2796	2796					
44201835	CLASS D PATCHES, TYPE I, 16 INCH	SO YD	20	20					
44201839	CLASS D PATCHES, TYPE II, 16 INCH	SO YD	899	396		486	17		
44201843	CLASS D PATCHES, TYPE III, 16 INCH	SO YD	289	56		233			
44201845	CLASS D PATCHES, TYPE IV, 16 INCH	SO YD	283	159		124			
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2470	679		1715	76		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	6174	2295		3879			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 6 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**		Macon, Piatt	44	4
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				

*125,126,126RRS-2&(126RRB
**FAS 1536 & FAU 7464

ILLINOIS DEPARTMENT OF TRANSPORTATION			80% FED 20% STATE TOTAL QUANTITIES	ACM M231		ACRS M232			
CODE NO	ITEM	UNIT		0005 MACON URBAN FAU 7464	0011 MACON URBAN FAU 7464	0005 MACON RURAL FAS 1536	0005 PIATT RURAL FAS 1536		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	85	85					
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1					
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	174.8	174.8					
50800105	REINFORCEMENT BARS	POUND	700	700					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	65,760	65,760					
50800515	BAR SPLICERS	EACH	119	119					
51500100	NAME PLATES	EACH	1	1					
54003000	CONCRETE BOX CULVERTS	CU YD	168.9	168.9					
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	550	550					
63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	75	75					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4					
63200310	GUARDRAIL REMOVAL	FOOT	464	464					
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	2	4				
67100100	MOBILIZATION	L SUM	1	1					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**		Macon, Piatt	44	5
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

*(125,126,126RIS-2&(126BR)B
**FAS 1536 & FAU 7464

ILLINOIS DEPARTMENT OF TRANSPORTATION			80% FED 20% STATE TOTAL QUANTITIES	ACM M231		ACRS M232			
CODE NO	ITEM	UNIT		0005 MACON URBAN FAU 7464	0011 MACON URBAN FAU 7464	0005 MACON RURAL FAS 1536	0005 PIATT RURAL FAS 1536		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5		0.5			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5		0.5			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5		0.5			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	7		3			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1					
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	16759	4626		11710	423		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	130177	35934		89785	4458		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	50 FT	2248.9	513.9	387	1301	47		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5		362.5				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	362.5		362.5				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 ** Macon, Piatt 44 6
 CONTRACT NO. 74156
 ILLINOIS FED. AID PROJECT

*(125,126,126)RS-2&(126)RB
 **FAS 1536 & FAU 7464

ILLINOIS DEPARTMENT OF TRANSPORTATION			80% FED 20% STATE TOTAL QUANTITIES	ACM M231		ACRS M232			
CODE NO	ITEM	UNIT		0005 MACON URBAN FAU 7464	0011 MACON URBAN FAU 7464	0005 MACON RURAL FAS 1536	0005 PIATT RURAL FAS 1536		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2					
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2					
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	122				122		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	190	190					
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	78				78		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	130177	35934		89785	4458		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	767	228		521	18		
78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10					
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4					
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0.2					
X4421000	PARTIAL DEPTH PATCHING	TON	1161	107		988	66		
X4422000	PARTIAL DEPTH REMOVAL (VARIABLE DEPTH)	SO YD	3190	294		2715	181		
Z0026407	TEMPORARY SHEET PILING	SO FT	457.2	457.2					

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

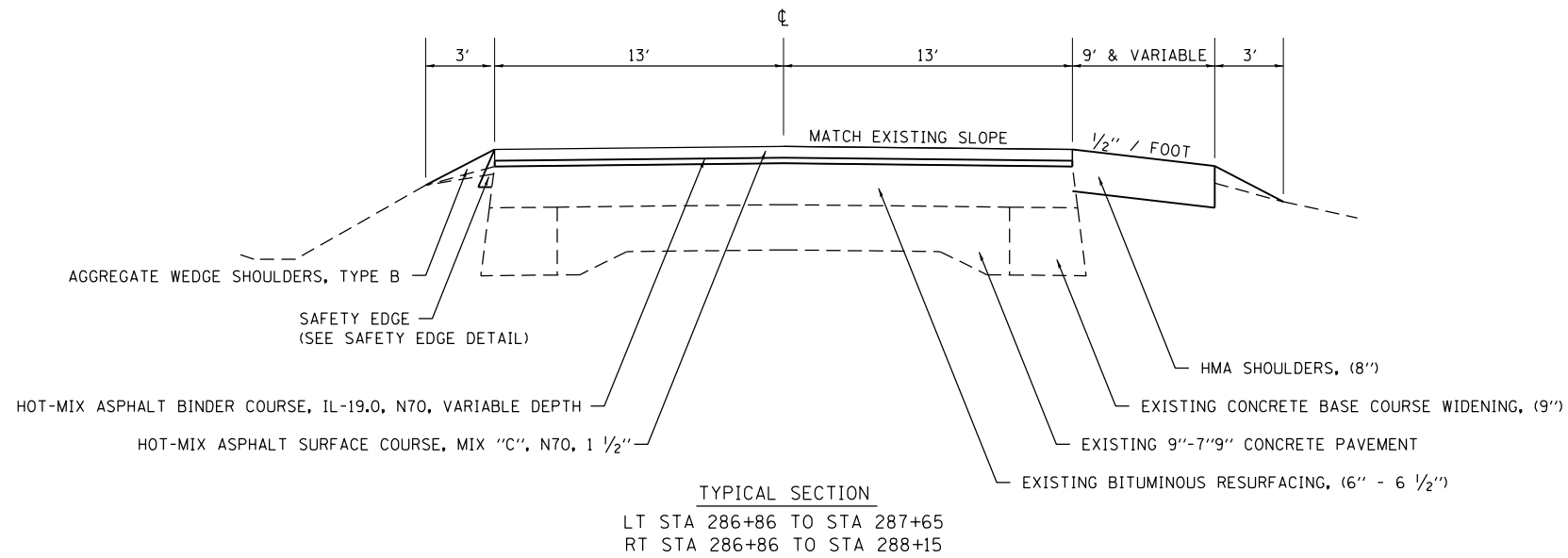
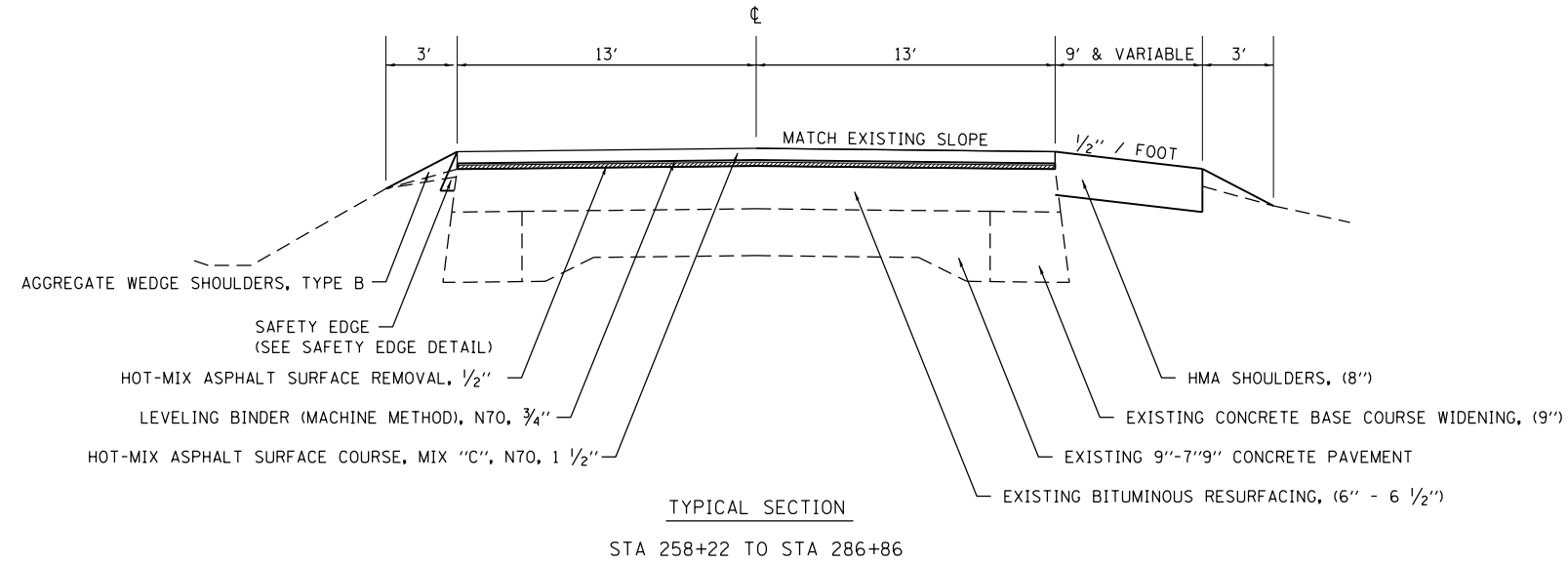
SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE. SECTION COUNTY TOTAL SHEET SHEETS NO.
 ** FAS 1536 & FAU 7464
 Macon, Piatt 44 7
 CONTRACT NO. 74156
 ILLINOIS FED. AID PROJECT

*125,126,126RIS-2&1126R18

**FAS 1536 & FAU 7464



•(125,126,126R)RS-2&(126BR)B
••FAS 1536 & FAU 7464

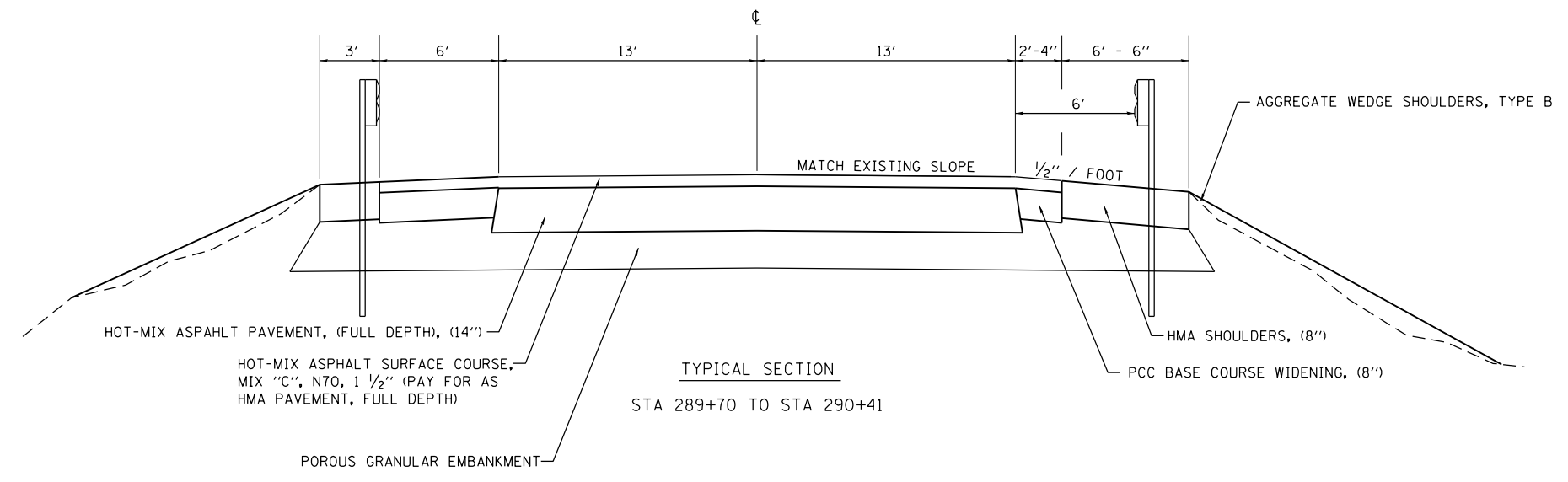
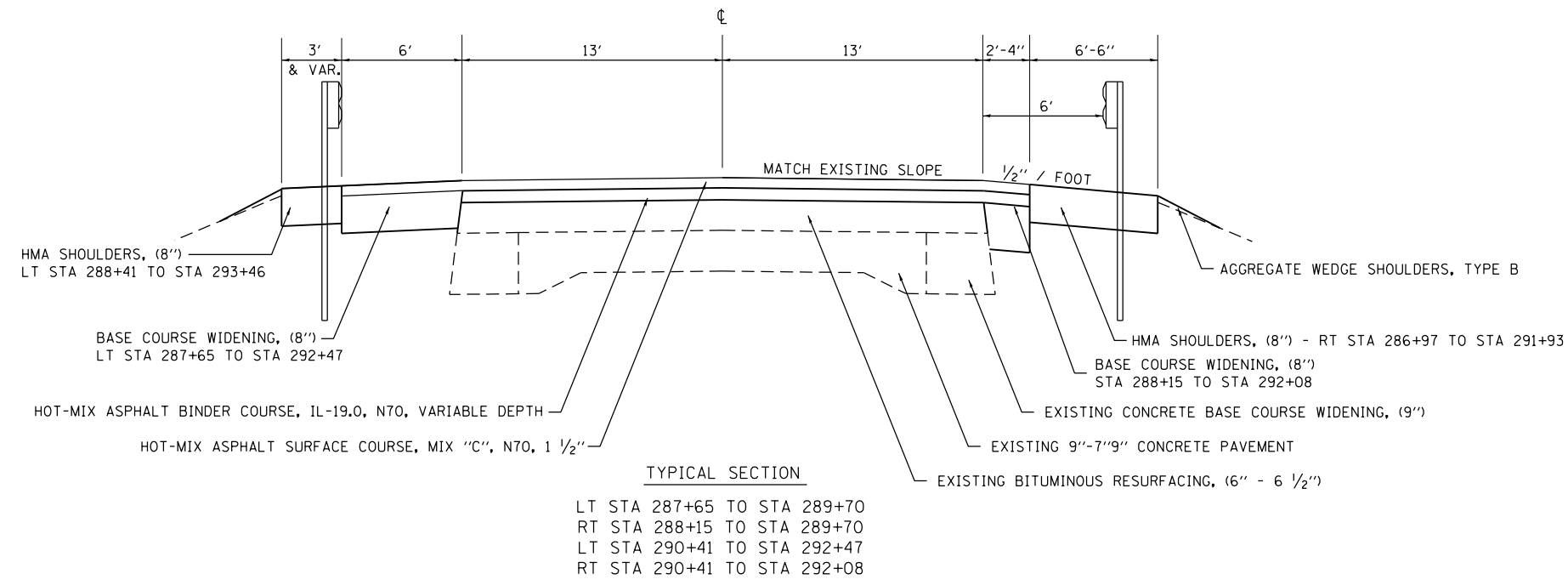
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	PLOT DATE = 10/30/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	9
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				



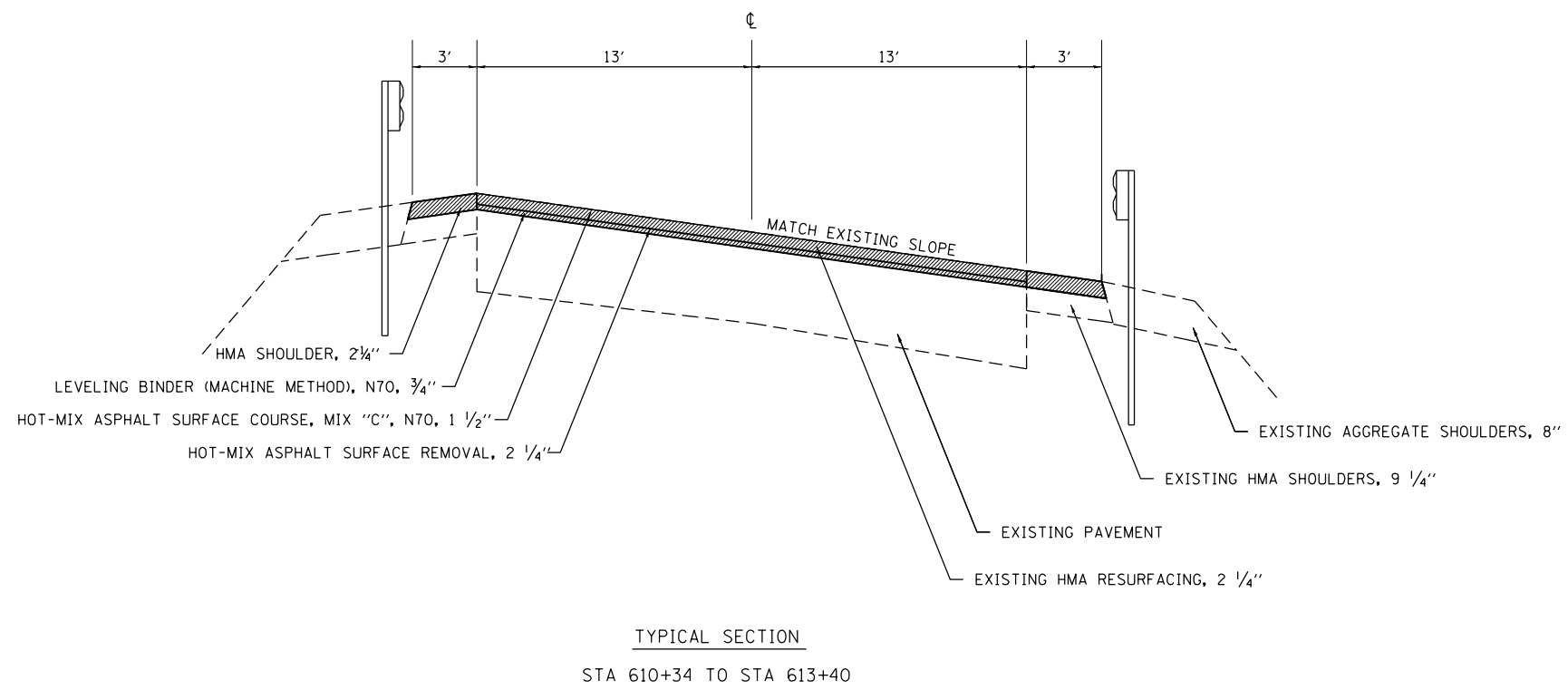
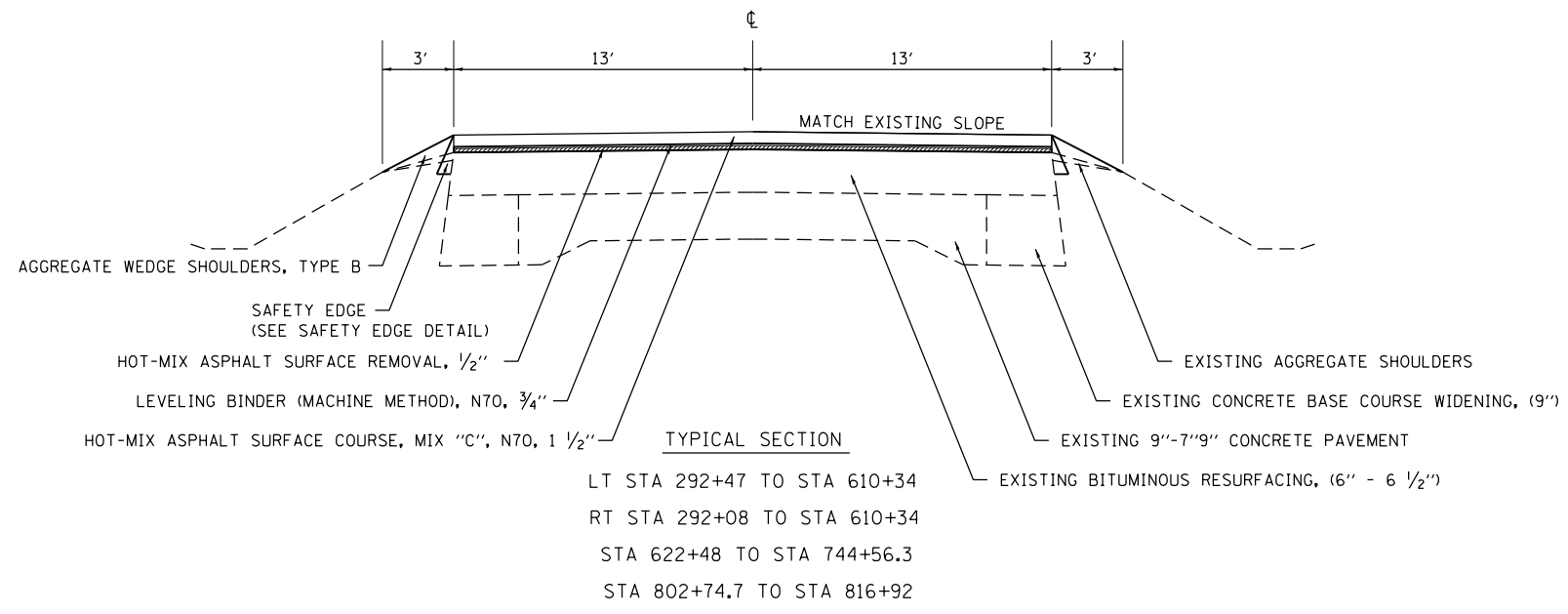
•(125,126,126R)RS-2&(126BR)B
 ••FAS 1536 & FAU 7464

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	PLOT DATE = 10/30/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET 2	OF 5 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	10
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				



•(125,126,126)RS-2&(126BR)B
 ••FAS 1536 & FAU 7464

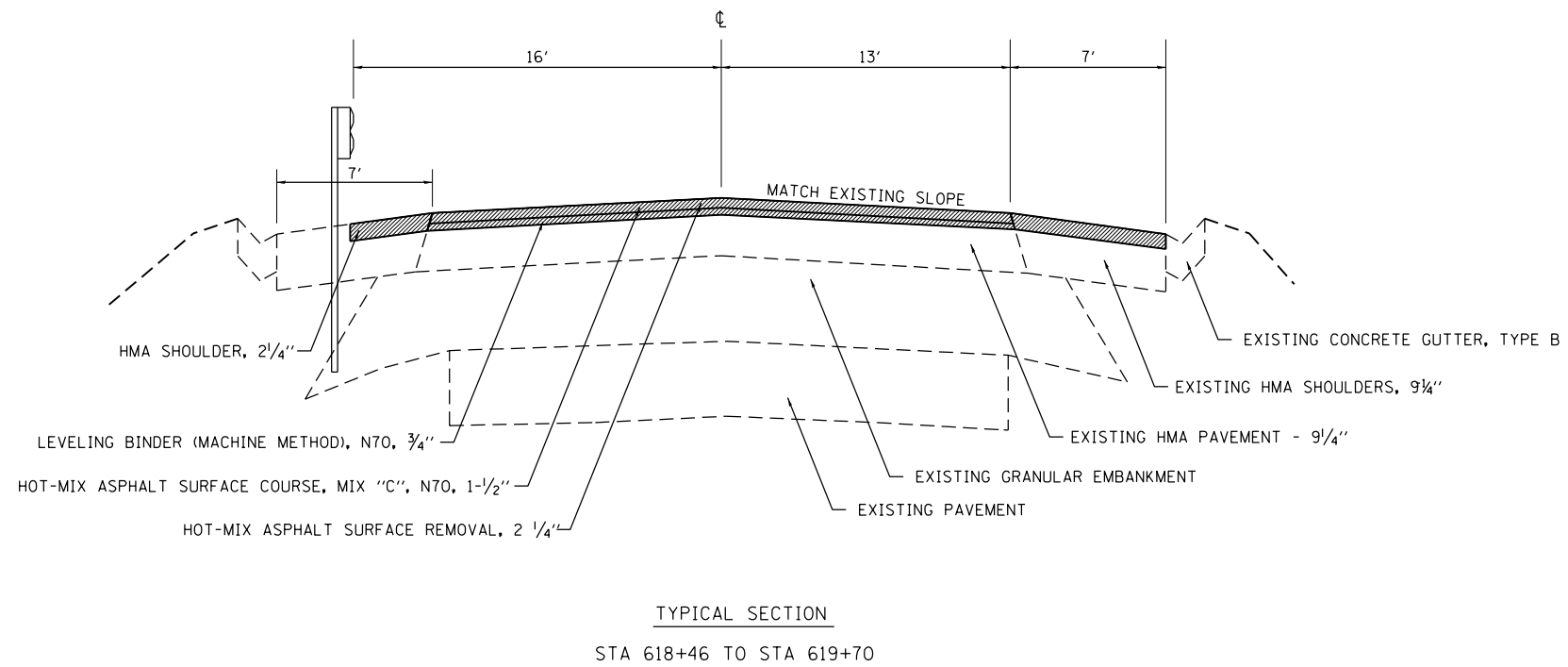
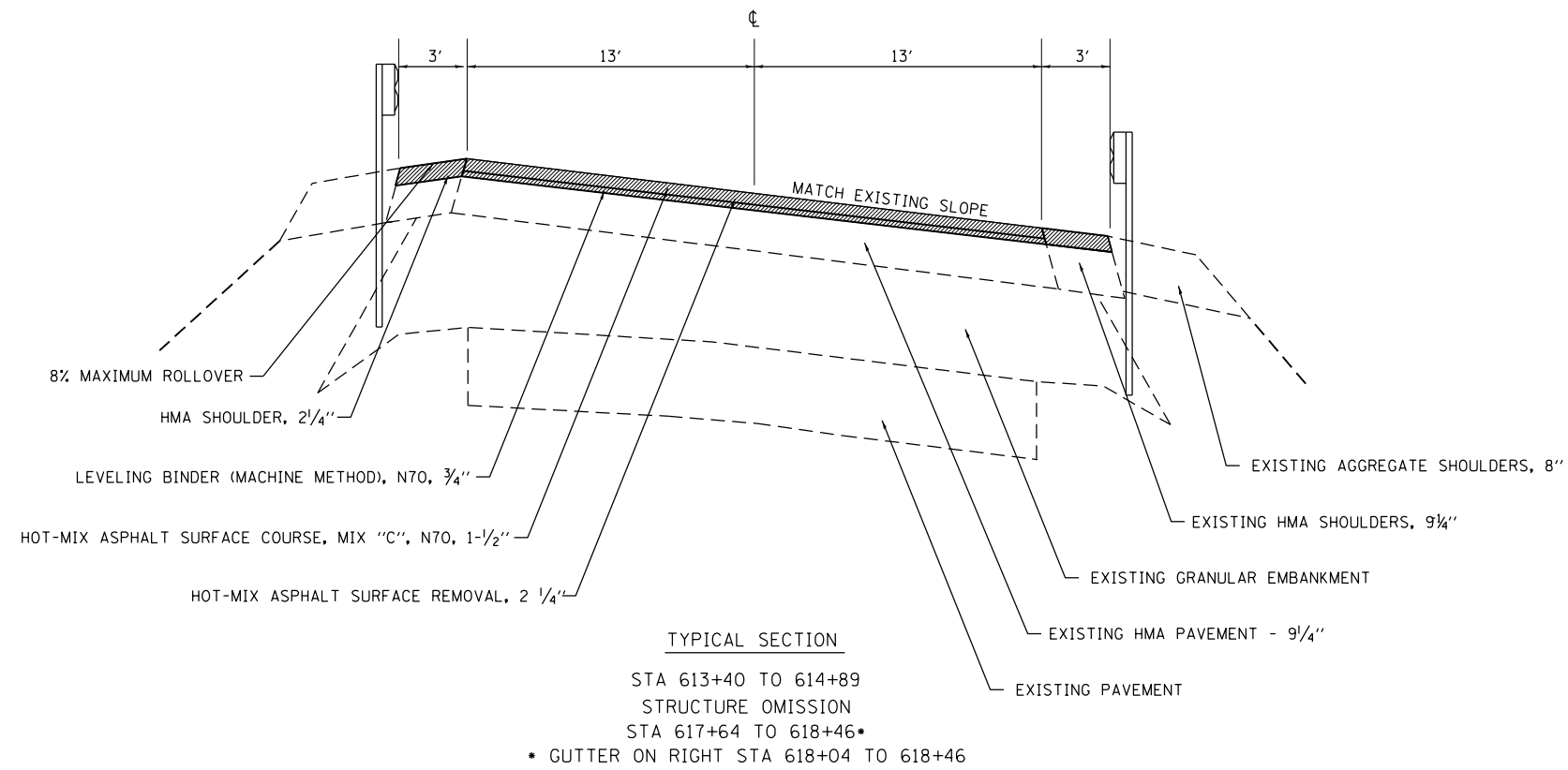
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	PLOT DATE = 10/30/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	11
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	



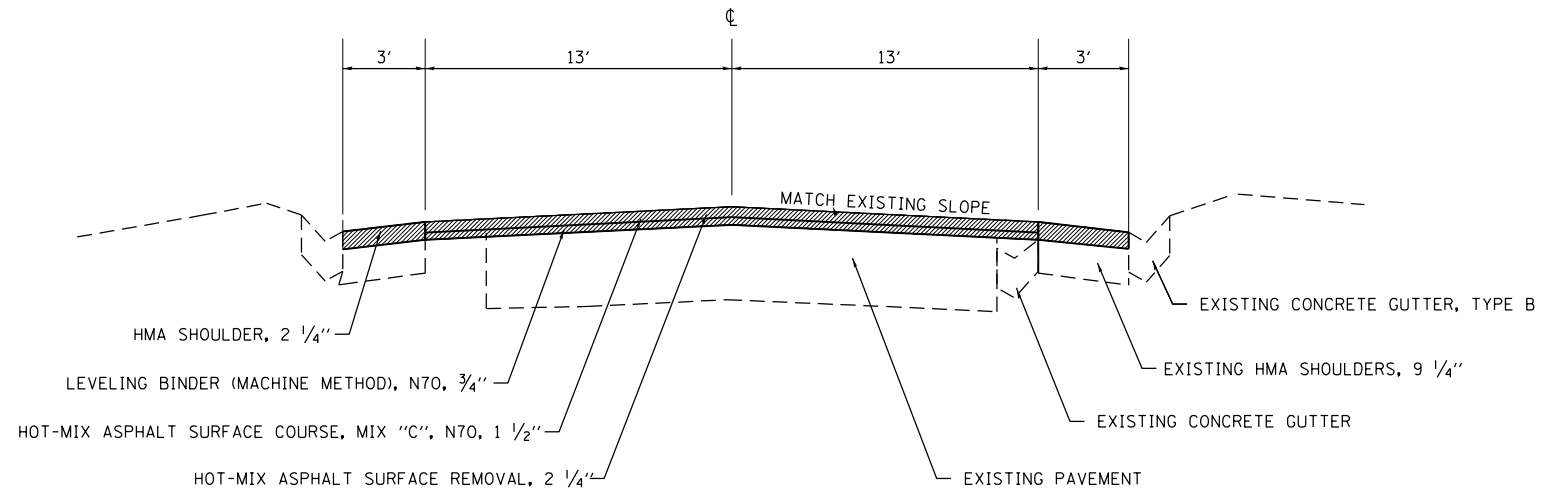
•(125,126,126R)RS-2&(126B)B
 ••FAS 1536 & FAU 7464

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	PLOT DATE = 10/30/2012	DATE -	REVISED -

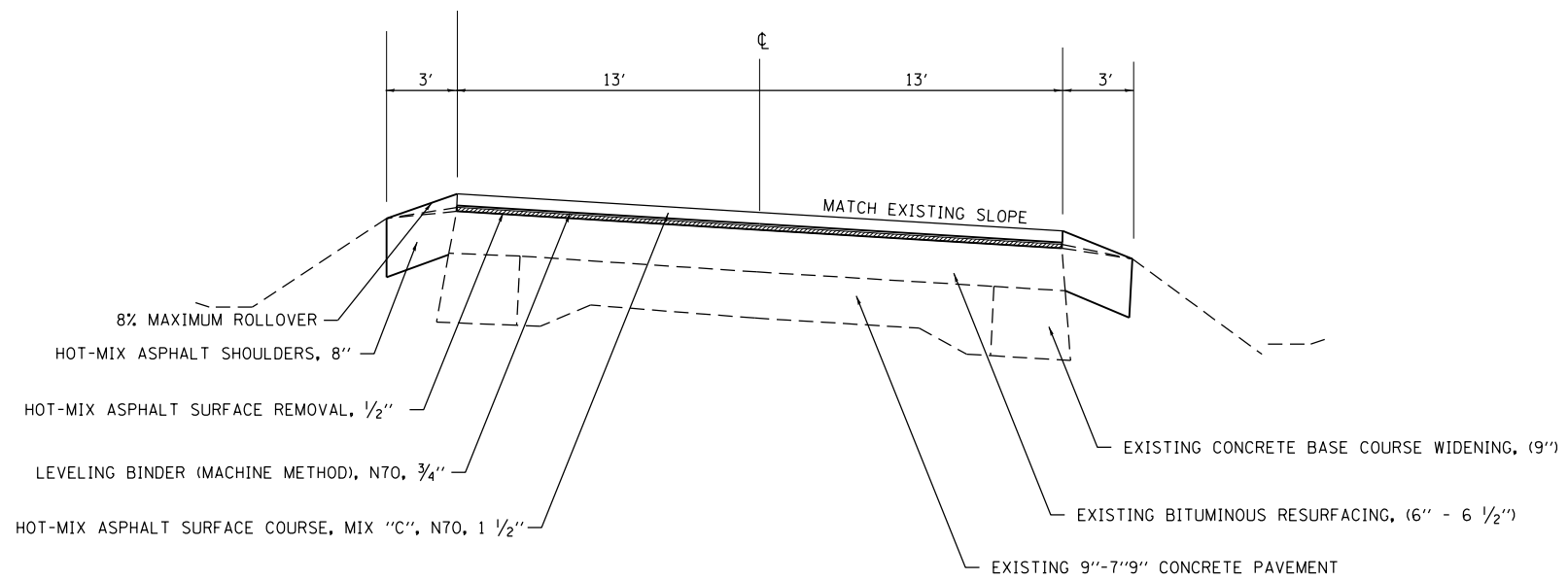
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	12
			CONTRACT NO. 74156	
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION
 STA 619+70 TO 622+48 •
 • GUTTER CONTINUES TO STA 622+77 ON LEFT



TYPICAL SECTION
 STA. 744+56.3 TO STA. 802+74.7

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/30/2012	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS			
SCALE:	SHEET 5	OF 5 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	13
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

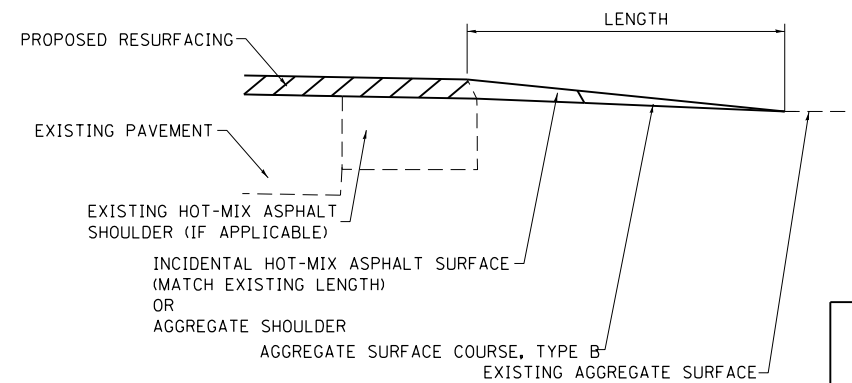
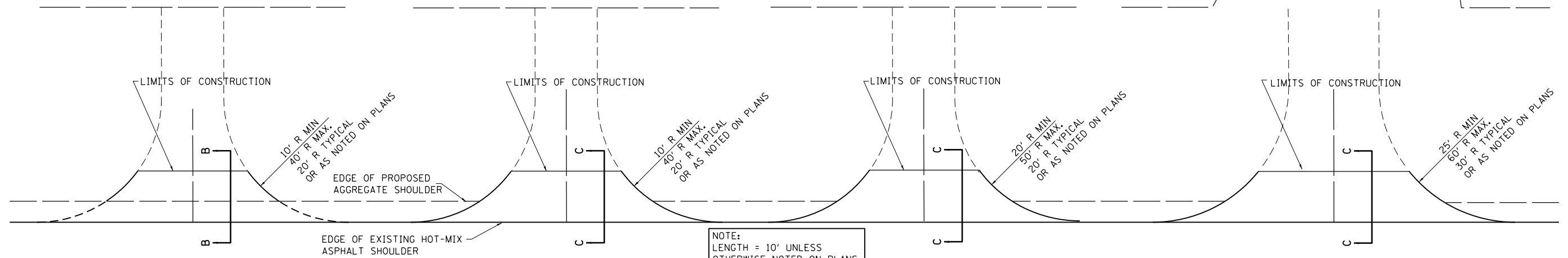
•(125,126,126R)RS-2&(126BR)B
 ••FAS 1536 & FAU 7464

FIELD ENTRANCE / PRIVATE ENTRANCE / COMMERCIAL ENTRANCE

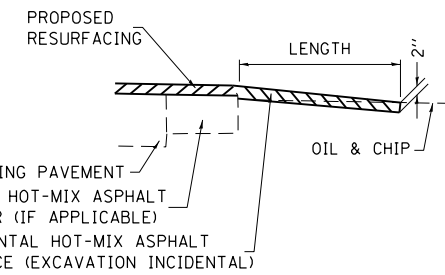
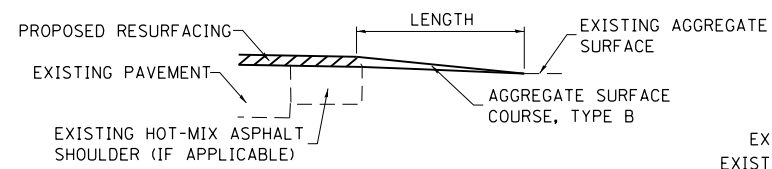
PRIVATE ENTRANCE

COMMERCIAL ENTRANCE

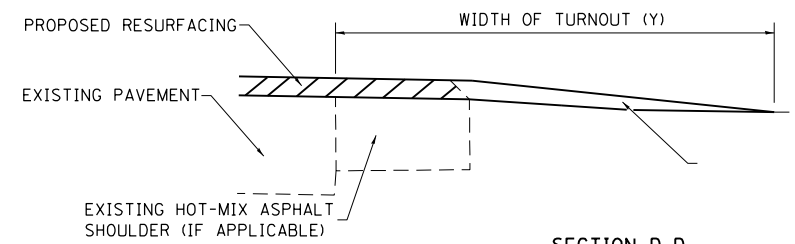
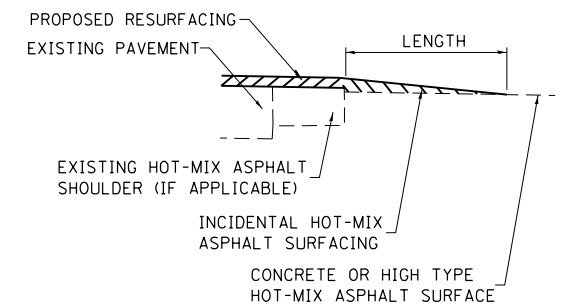
PUBLIC ROAD APPROACH



SECTION B-B



SECTION C-C



SECTION D-D

TYPICAL SECTION AT MAILBOX TURNOUT

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

NOTES

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

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.

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
Rt	260+50	PE	1.9	
Rt	261+10	PE	.	.
Lt	262+03	PE	1.7	2.2
Lt	262+30	PE	23.6	8.7
Rt	262+60	PE	1.9	
Rt	263+10	PE	1.9	
Rt	264+08	PE	2.3	
Rt	265+53	PE	2.4	
Rt	266+09	PE	2.6	
Rt	267+91	PE	.	.
Rt	268+72	PE	.	.
Rt	270+10	PE	.	.
Rt	270+63	PE	.	.
Rt	271+65	PE	2.3	
Rt	272+72	PE	.	.
Rt	273+67	PE	2.3	
Rt	274+63	PE	2.4	
Lt	274+63	FE	1.2	1.6
Rt	275+65	PE	.	.
Rt	277+13	PE	.	.
Rt	278+77	PE	2.3	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
Rt	281+32	PE	2.2	
Rt	282+80	PE	2.5	
Rt	283+28	PE	2.0	
Rt	284+34	PE	1.9	
Rt	285+68	PE	2.0	
Rt	286+51	PE	2.7	
Rt	304+56	FE	0.5	0.7
Rt	314+09	FE	1.1	1.2
Lt	314+09	FE	0.9	1.3
Rt	319+87	PRA	4.7	
Lt	320+09	PRA	6.6	
Rt	332+31	FE	0.9	1.2
Lt	339+78	FE		1.8
Rt	346+59	CE	23.1	8.6
Rt	348+81	FE	0.7	1.1
Rt	349+43	FE	0.6	0.9
Lt	350+12	CE	3.0	0.9
Lt	351+11	CE	5.3	
Rt	353+57	PE	1.0	1.2
Lt	353+57	FE		1.6
Rt	358+94	PRA	7.0	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
Lt	358+94	PRA	7.9	
Lt	359+23	PRA	5.6	
Rt	360+02	CE	3.5	
Rt	360+98	CE	3.3	
Rt	362+05	CE	4.9	
Lt	362+25	PE	0.6	0.9
Rt	363+30	PRA	4.3	
Lt	363+30	PRA	5.4	
Lt	364+47	PE	0.9	1.1
Lt	365+36	CE	1.6	2.1
Rt	367+17	PRA	3.3	
Lt	367+28	CE	3.1	
Rt	370+38	PRA	3.1	
Rt	373+75	FE	0.8	1.0
Rt	377+91	CE	1.0	1.4
Rt	382+93	CE	4.1	
Rt	383+85	CE	1.7	0.4
Rt	393+90	FE	0.6	0.9
Lt	394+20	CE	4.8	
Rt	424+30	FE	0.6	0.9
Rt	424+45	PRA	5.0	

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
Lt	424+45	PRA	5.6	
Rt	425+37	FE	0.6	0.9
Rt	440+34	FE	0.6	0.9
Lt	441+21	FE	0.6	0.9
Rt	469+36	FE	0.6	0.9
Lt	470+20	FE	0.6	0.9
Rt	470+61	FE	0.6	0.9
Rt	473+00	PRA	6.1	
Lt	473+00	PRA	6.1	
Rt	476+09	FE	0.6	0.9
Lt	491+81	PRA	3.5	
Rt	491+81	PRA	4.6	
Rt	492+65	FE	0.6	0.9
Rt	517+54	FE	0.6	0.9
Lt	520+91	FE	0.6	0.9
Rt	540+00	FE	0.6	0.9
Rt	548+80	FE	0.6	0.9
Rt	554+51	PRA	4.8	
Lt	554+51	PRA	5.6	
Rt	555+22	CE	3.2	4.3
Lt	556+14	CE	3.4	1.0

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
Rt	557+01	FE	0.6	0.9
Lt	557+17	CE	4.6	
Rt	558+34	FE	1.2	1.5
Rt	559+54	CE	3.4	
Lt	561+71	PRA	5.3	
Rt	561+99	PE	1.8	2.4
Rt	563+07	CE	2.0	2.7
Rt	563+83	CE	1.6	2.1
Rt	564+97	FE	1.0	1.3
Rt	565+38	FE	0.9	1.1
Lt	565+69	PE	0.8	1.1
Lt	566+46	CE	1.7	2.4
Lt	567+09	CE	1.7	2.4
Lt	568+75	CE	1.7	2.4
Rt	568+98	CE	5.3	
Lt	569+32	CE	2.5	3.6
Rt	570+38	CE	5.4	
Lt	570+55	PRA	5.4	
Lt	570+71	PRA	5.4	
Rt	572+33	PE	1.3	1.5
Lt	572+33	PE	1.4	1.8

- These entrances are figured in the HMA Shoulder Quantity.
- FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH
- PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT
- CE=COMMERCIAL ENTRANCE

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 10/30/2012		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RURAL ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS WITH SHOULDERS			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	14
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

•(125,126,126R)RS-2&(126BR)B
•FAS 1536 & FAU 7464

PAVING SCHEDULE

STATION TO STATION		BITUMINOUS MATERIAL PRIME COAT	AGGREGATE PRIME COAT	LEVELING BINDER (MACHINE METHOD), N70	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT BINDER COURSE, 1L 19-0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	HOT-MIX ASPHALT SURFACE REMOVAL, 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS	HOT-MIX ASPHALT SHOULDERS, 8"
		(GALLON)	(TON)	(TON)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(SQ YD)
258+22.0	285+56.0	1580	32	332	101		693	7898			124		1838.1
285+56.0	295+60.0	663	12	29		812	263	205	375		54		457
295+60.0	610+34.0	18185	366	3819			8318	91269			1580		
610+34.0	613+40.0	218	4	37			74			884		26	
613+40.0	614+89.0	106	2	18			36			430		13	
614+89.0	617+64.0	STRUCTURE OMISSION											
617+64.0	618+46.0	58	1	10			20			237		3	
618+46.0	619+70.0	88	2	15			30			358		17	
619+70.0	622+48.0	198	4	34			68			803		24	
622+48.0	622+77.0	17	0	4			8			84	2	2	
622+77.0	744+56.3	7037	141	1478			3227	35185			634		
744+56.3	802+74.7	3362	67	706			1412	16809					3879
802+74.7	804+99.0	130	3	27	101		59	648			12		
804+99.0	805+07.0	RAILROAD OMISSION											
805+07.0	816+92.0	685	14	144	202		315	3423			65		
TOTALS:		32326	647	6653	404	812	14523	205	155607	2796	2470	85	6174

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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/30/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVING SCHEDULE

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	16
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

*(125,126,126)RS-2&(126BR)B
**FAS 1536 & FAU 7464

PARTIAL DEPTH PATCHING

Patch Number	Side	Station to Station	Length ft	Width ft	Plan Depth in	Area Sq Yd	Volume Cu Yd	Quantity Ton
1	NB	387+27 388+75	148	2	6.5	32.9	5.94	11.97
2	NB	389+83 390+13	30	2	6.5	6.7	1.20	2.43
3	NB	391+40 392+90	150	2	6.5	33.3	6.02	12.13
4	NB	394+30 396+40	210	2	6.5	46.7	8.43	16.99
5	NB	409+80 420+45	1065	2	6.5	236.7	42.73	86.15
6	NB	429+45 430+15	70	2	6.5	15.6	2.81	5.66
7	NB	441+70 450+74	904	2	6.5	200.9	36.27	73.12
8	NB	454+70 455+90	120	2	6.5	26.7	4.81	9.71
9	NB	459+90 461+45	155	2	6.5	34.4	6.22	12.54
10	NB	462+25 463+85	160	2	6.5	35.6	6.42	12.94
11	NB	473+90 475+25	135	2	6.5	30.0	5.42	10.92
12	NB	478+30 481+20	290	2	6.5	64.4	11.64	23.46
13	NB	484+42 489+30	488	2	6.5	108.4	19.58	39.47
14	NB	490+05 491+70	165	2	6.5	36.7	6.62	13.35
15	NB	493+10 495+20	210	2	6.5	46.7	8.43	16.99
16	NB	499+10 503+70	460	2	6.5	102.2	18.46	37.21
17	NB	529+90 531+20	130	2	6.5	28.9	5.22	10.52
18	NB	534+90 535+30	40	2	6.5	8.9	1.60	3.24
19	NB	542+64 545+30	266	2	6.5	59.1	10.67	21.52
20	NB	547+88 549+70	182	2	6.5	40.4	7.30	14.72
21	NB	555+86 556+85	99	2	6.5	22.0	3.97	8.01
22	NB	557+88 558+10	22	2	6.5	4.9	0.88	1.78
23	NB	559+80 560+55	75	2	6.5	16.7	3.01	6.07
24	NB	584+50 585+50	100	2	6.5	22.2	4.01	8.09
25	NB	594+60 595+60	100	2	6.5	22.2	4.01	8.09
26	NB	672+25 672+35	10	2	6.5	2.2	0.40	0.81
27	NB	686+45 687+30	85	2	6.5	18.9	3.41	6.88
28	NB	691+83 693+60	177	2	6.5	39.3	7.10	14.32
29	NB	744+35 747+00	265	2	6.5	58.9	10.63	21.44
30	NB	753+90 756+60	270	2	6.5	60.0	10.83	21.84
31	NB	781+00 781+95	95	2	6.5	21.1	3.81	7.68
32	NB	790+10 792+30	220	2	6.5	48.9	8.83	17.80
33	NB	793+20 796+45	325	2	6.5	72.2	13.04	26.29
34	NB	801+00 801+90	90	2	6.5	20.0	3.61	7.28
35	NB	805+90 809+30	340	2	6.5	75.6	13.64	27.50
36	NB	812+25 816+99	474	2	6.5	105.3	19.02	38.34
37	SB	774+90 776+30	140	2	6.5	31.1	5.62	11.32
38	SB	769+15 769+83	68	2	6.5	15.1	2.73	5.50
39	SB	764+80 766+30	150	2	6.5	33.3	6.02	12.13
40	SB	750+60 750+90	30	2	6.5	6.7	1.20	2.43
41	SB	741+15 742+00	85	2	6.5	18.9	3.41	6.88
42	SB	731+60 734+30	270	2	6.5	60.0	10.83	21.84
43	SB	722+30 723+45	115	2	6.5	25.6	4.61	9.30
44	SB	718+65 719+10	45	2	6.5	10.0	1.81	3.64
45	SB	715+20 716+70	150	2	6.5	33.3	6.02	12.13
46	SB	709+20 713+10	390	2	6.5	86.7	15.65	31.55
47	SB	702+00 702+45	45	2	6.5	10.0	1.81	3.64
48	SB	692+20 695+13	293	2	6.5	65.1	11.76	23.70
49	SB	662+15 663+10	95	2	6.5	21.1	3.81	7.68
50	SB	625+25 626+50	125	2	6.5	27.8	5.02	10.11

PARTIAL DEPTH PATCHING continued

Patch Number	Side	Station to Station	Length ft	Width ft	Plan Depth in	Area Sq Yd	Volume Cu Yd	Quantity Ton
51	SB	607+50 607+90	40	2	6.5	8.9	1.60	3.24
52	SB	579+60 583+98	438	2	6.5	97.3	17.57	35.43
53	SB	571+10 572+10	100	2	6.5	22.2	4.01	8.09
54	SB	567+50 568+50	100	2	6.5	22.2	4.01	8.09
55	SB	565+90 566+25	35	2	6.5	7.8	1.40	2.83
56	SB	562+40 564+75	235	2	6.5	52.2	9.43	19.01
57	SB	526+20 529+00	280	2	6.5	62.2	11.23	22.65
58	SB	510+60 511+85	125	2	6.5	27.8	5.02	10.11
59	SB	504+20 505+40	120	2	6.5	26.7	4.81	9.71
60	SB	495+30 496+40	110	2	6.5	24.4	4.41	8.90
61	SB	490+30 491+10	80	2	6.5	17.8	3.21	6.47
62	SB	479+80 480+30	50	2	6.5	11.1	2.01	4.04
63	SB	476+70 478+80	210	2	6.5	46.7	8.43	16.99
64	SB	471+60 472+10	50	2	6.5	11.1	2.01	4.04
65	SB	463+60 464+30	70	2	6.5	15.6	2.81	5.66
66	SB	458+30 459+40	110	2	6.5	24.4	4.41	8.90
67	SB	446+40 447+18	78	2	6.5	17.3	3.13	6.31
68	SB	444+30 445+40	110	2	6.5	24.4	4.41	8.90
69	SB	441+00 442+00	100	2	6.5	22.2	4.01	8.09
70	SB	439+40 440+38	98	2	6.5	21.8	3.93	7.93
71	SB	430+25 437+20	695	2	6.5	154.4	27.89	56.22
72	SB	433+80 434+80	100	2	6.5	22.2	4.01	8.09
73	SB	414+30 415+40	110	2	6.5	24.4	4.41	8.90
74	SB	404+50 408+00	350	2	6.5	77.8	14.04	28.31
75	SB	400+65 403+00	235	2	6.5	52.2	9.43	19.01
76	SB	397+50 398+00	50	2	6.5	11.1	2.01	4.04
77	SB	385+50 386+00	50	2	6.5	11.1	2.01	4.04
78	SB	312+90 313+90	100	2	6.5	22.2	4.01	8.09
TOTAL:						3190.0	575.97	1161.16

•(125,126,126R)RS-2&(126BR)B
 **FAS 1536 & FAU 7464

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARTIAL DEPTH PATCHING SCHEDULE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\teasleyck\d0121473\0774156-sht-sch.dgn	DRAWN -	REVISED -	••					•	Macon, Platt	44	17	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74156									
PLOT DATE = 10/30/2012	DATE -	REVISED -	SCALE:					SHEET 1	OF 1	SHEETS	STA.	TO STA.

PAVEMENT MARKING SCHEDULE

STATION TO STATION	LENGTH	SHORT-TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING - LINE 4"	WORK ZONE PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	PAINT PAVEMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKERS
258+22.0	285+56.0	2734	820	6152	91			6152	34
285+56.0	295+60.0	1004	301	2259	420			2259	13
295+60.0	610+34.0	31474	9442	71065	1049	190		71065	462
610+34.0	613+40.0	306	92	766	10			766	4
613+40.0	614+89.0	149	45	596	5			596	2
614+89.0	617+64.0	275	82	967	9			967	3
617+64.0	618+46.0	82	25	266	3			266	1
618+46.0	619+70.0	124	37	403	4			403	2
619+70.0	622+48.0	278	83	891	9			891	3
622+48.0	622+77.0	29	9	65	1			65	0
622+77.0	744+56.3	12179.3	3654	27891	406			27891	152
744+56.3	802+74.7	5818.4	1746	14399	194			14399	73
802+74.7	804+99.0	224.3	67	625	8	61	39	625	3
804+99.0	805+07.0	8	RAILROAD OMISSION						
805+07.0	816+92.0	1185	356	3832	40	61	39	3832	15
TOTALS:		16759	130177	2249	122	190	78	130177	767

PCC BASE COURSE WIDENING, 8"

STATION TO STATION	SIDE	LENGTH	WIDTH	QUANTITY	
287+65.00	292+47.00	LT	482	6	321.33
288+15.00	292+08.00	RT	393	2.3333	101.89
TOTAL:				423	

GUARDRAIL SCHEDULE

STATION TO STATION	SIDE	(FOOT)	(FOOT)	(EACH)	(EACH)	(FOOT)	
287+22.62	291+35.78	RT	275	37.5	2	2	234
288+76.89	292+89.38	LT	275	37.5	2	2	230
TOTALS:			550	75	4	4	464

EXCAVATING AND GRADING EXISTING SHOULDER

SIDE	STATION TO STATION	LENGTH	QUANTITY	
		(FOOT)	(UNIT)	
LT	258+22.0	286+86.0	2864	25
RT	258+22.0	292+08.0	3386	28
LT	293+46.0	610+34.0	31688	289
RT	292+08.0	610+34.0	31826	296
FRIENDS CREEK OMISSION				
RT	622+48.0	622+77.0	29	1
LT & RT	622+77.0	804+99.0	18222	352
RAILROAD OMISSION				
LT & RT	805+07.0	816+92.0	1185	24
TOTAL:			1015	

•(125,126,126R)RS-2&(126BR)B

••FAS 1536 & FAU 7464

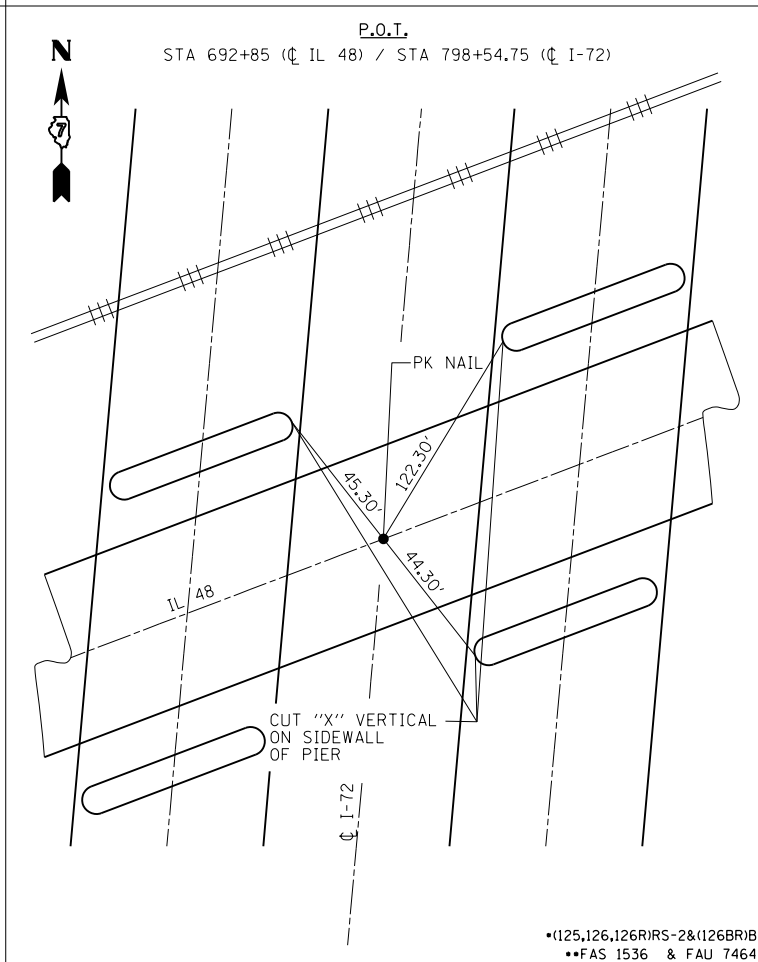
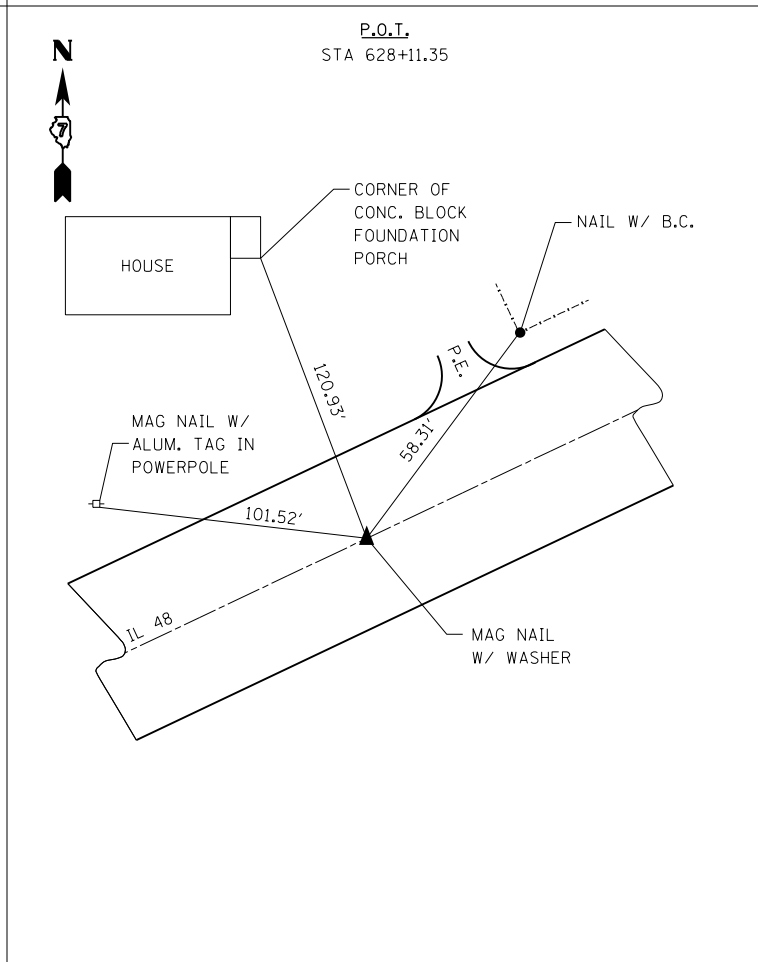
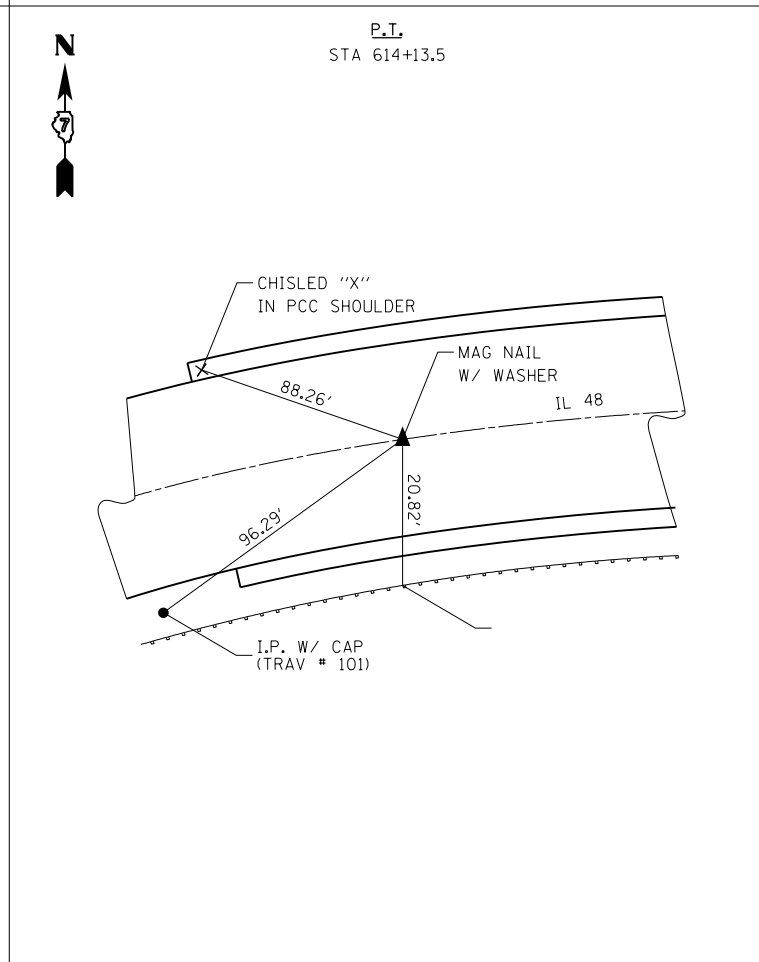
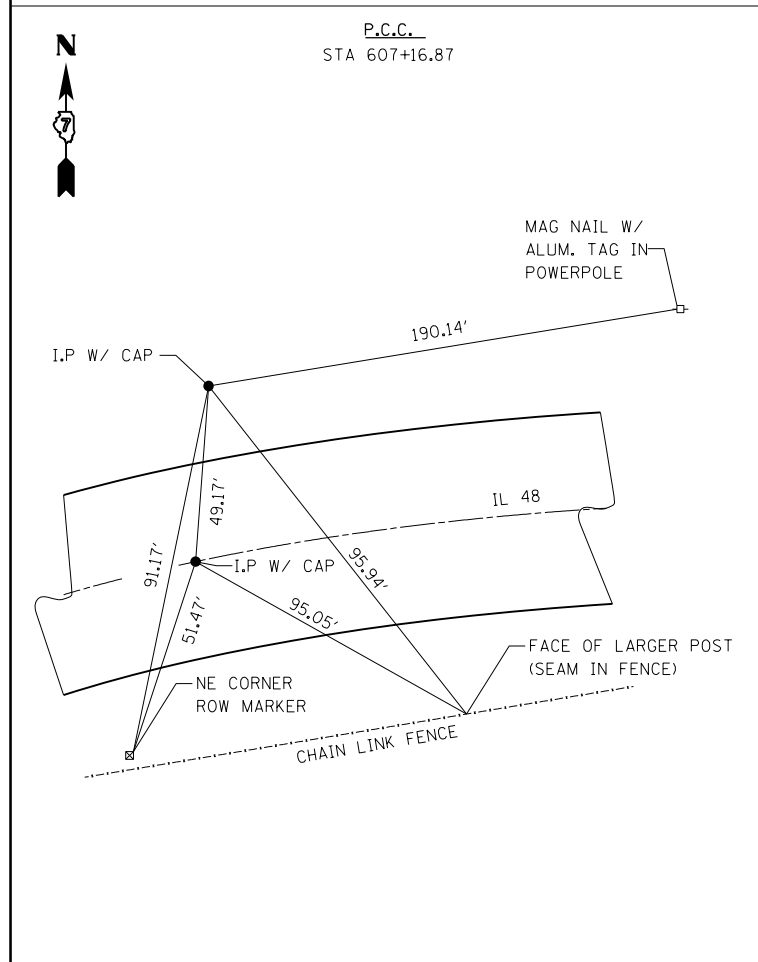
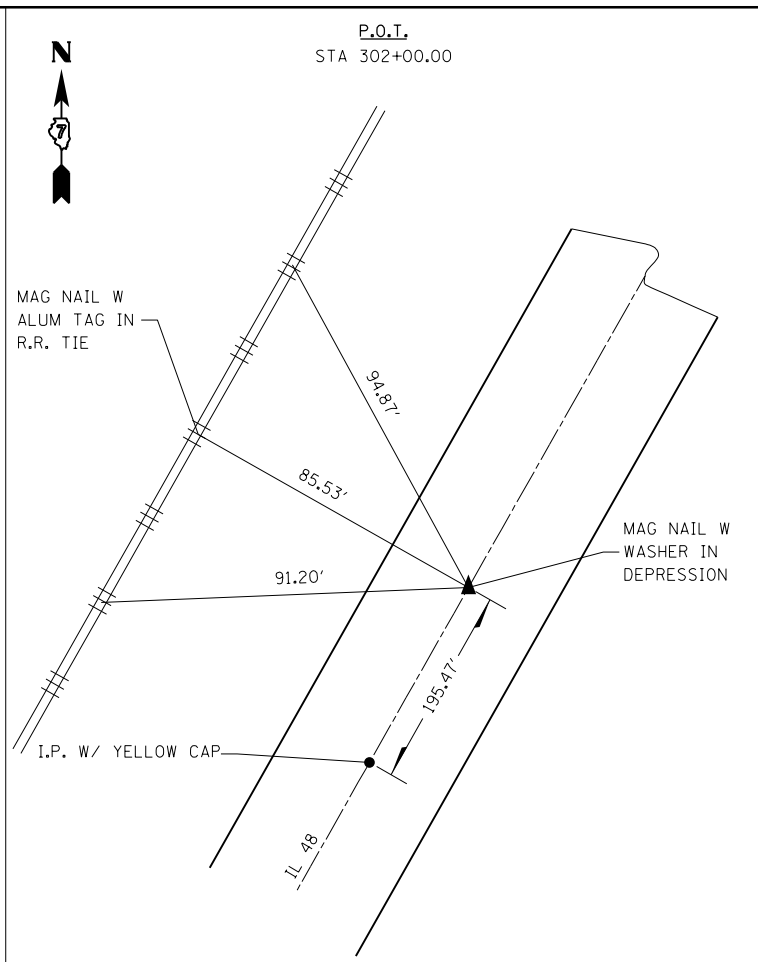
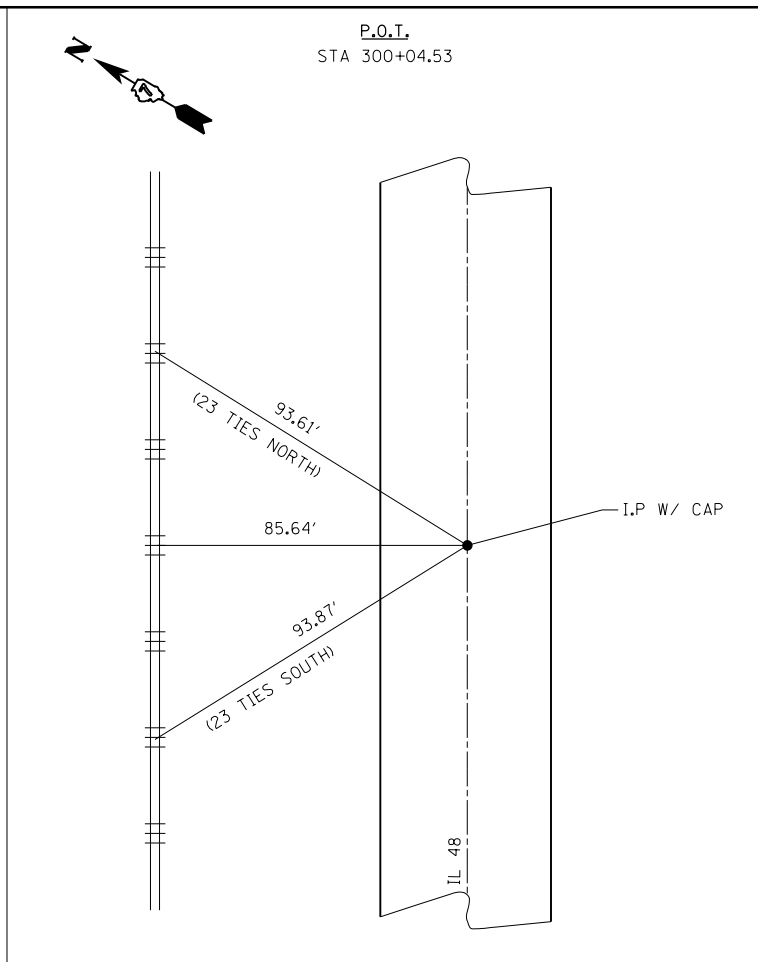
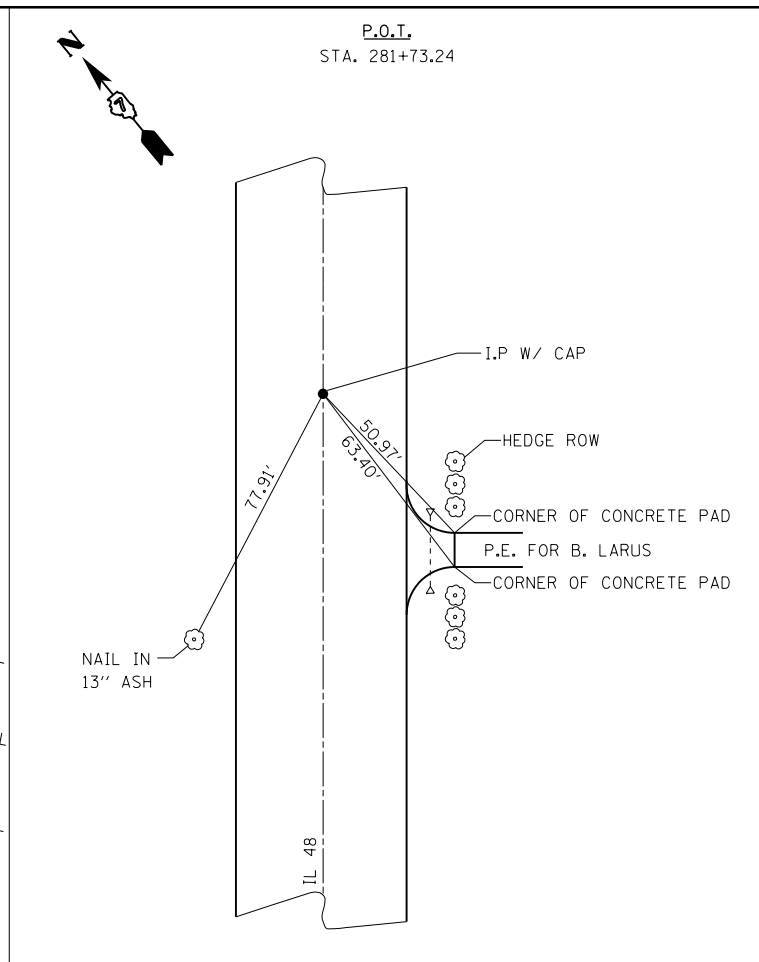
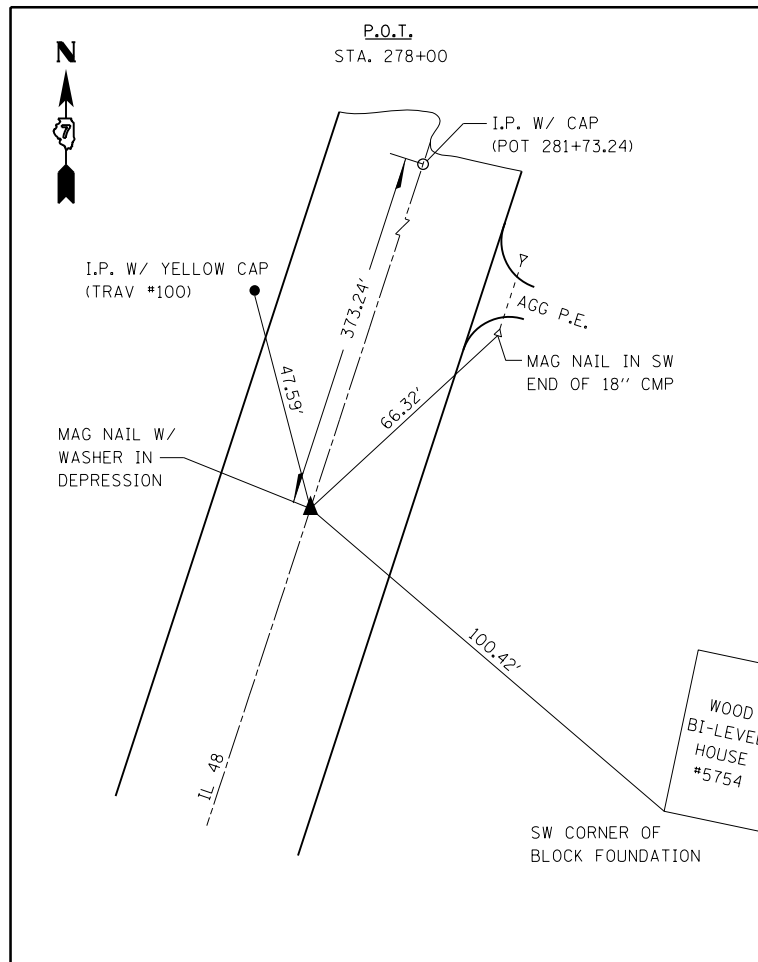
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	PLOT DATE = 10/30/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS SCHEDULES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	18
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	



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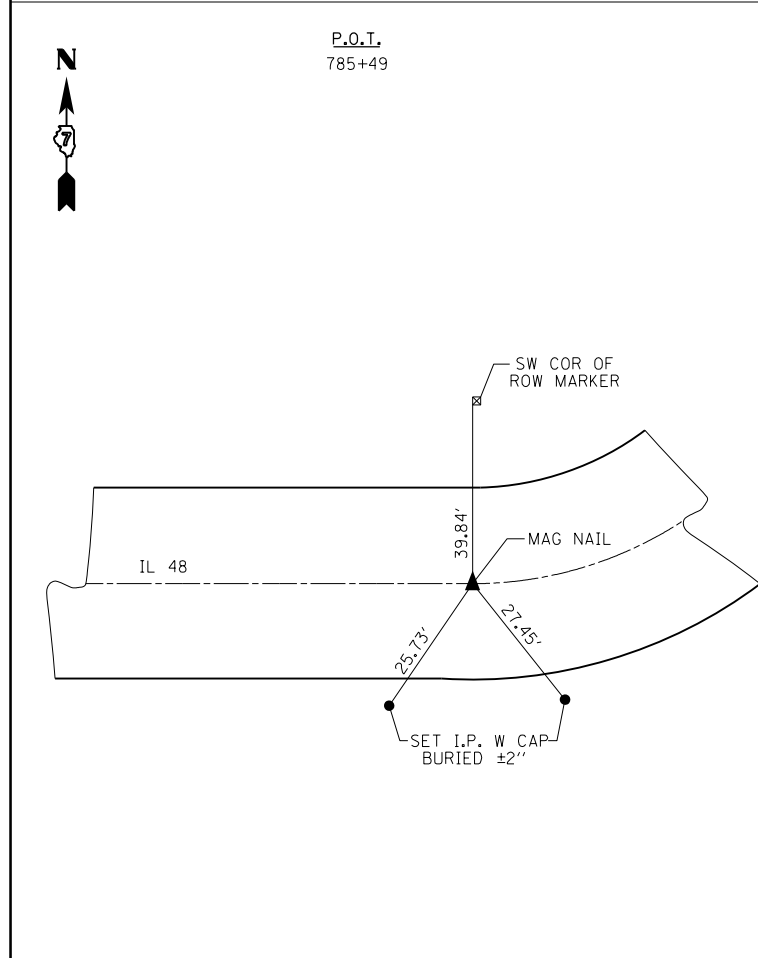
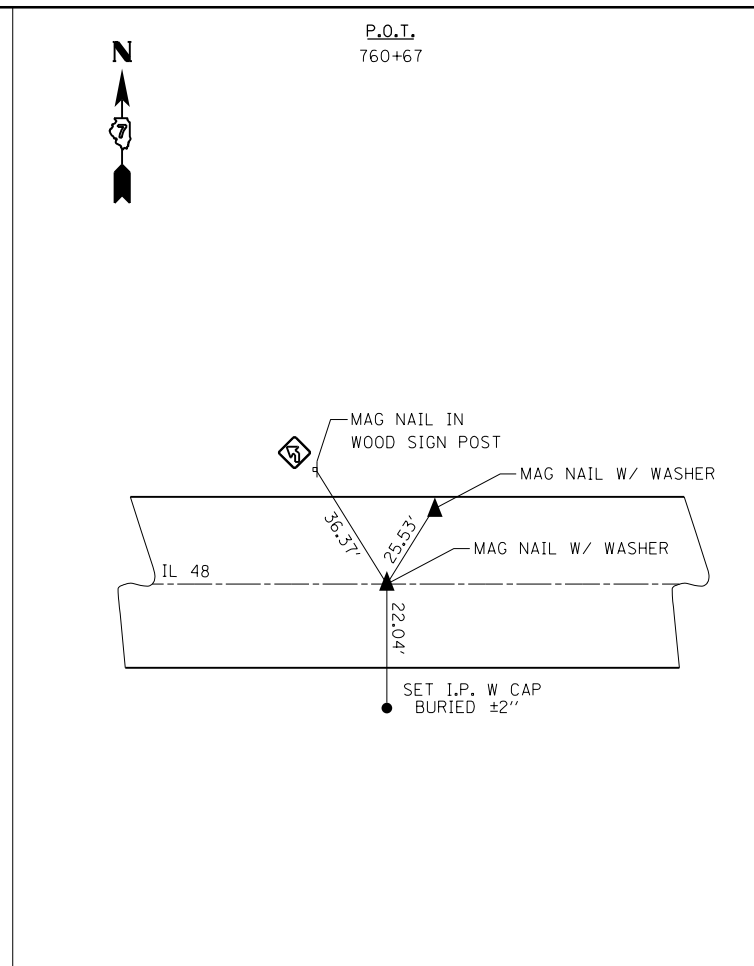
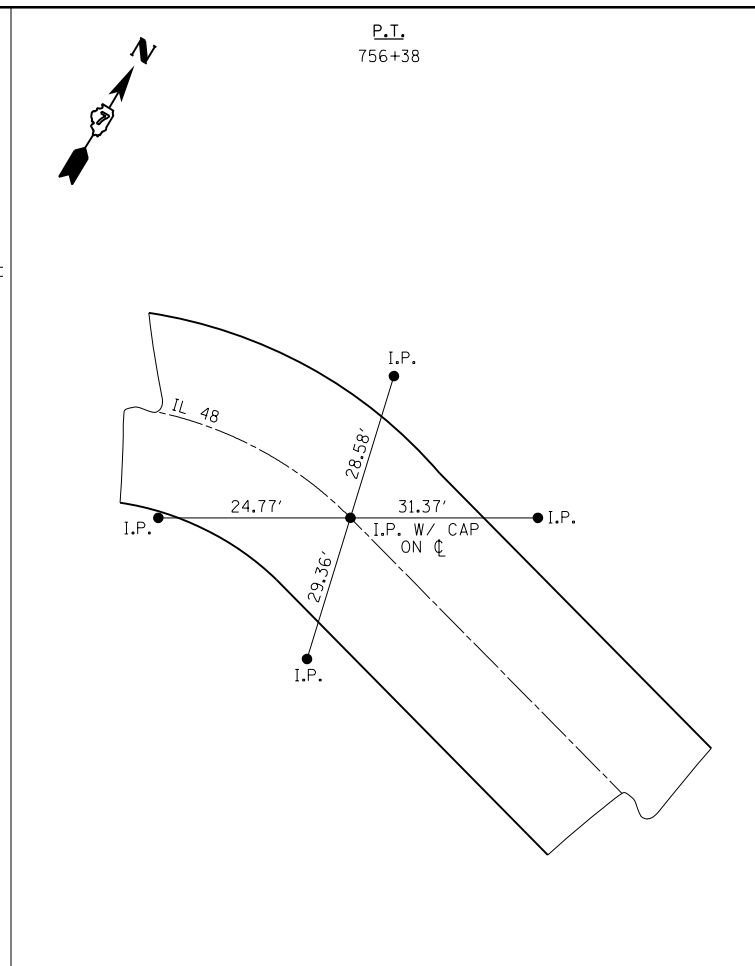
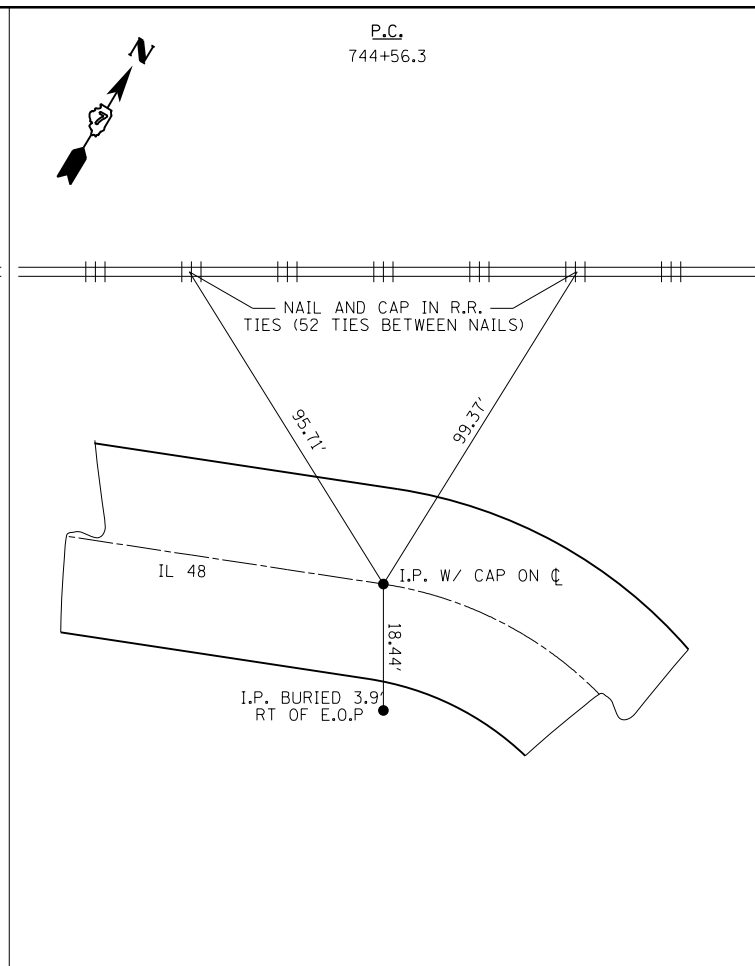
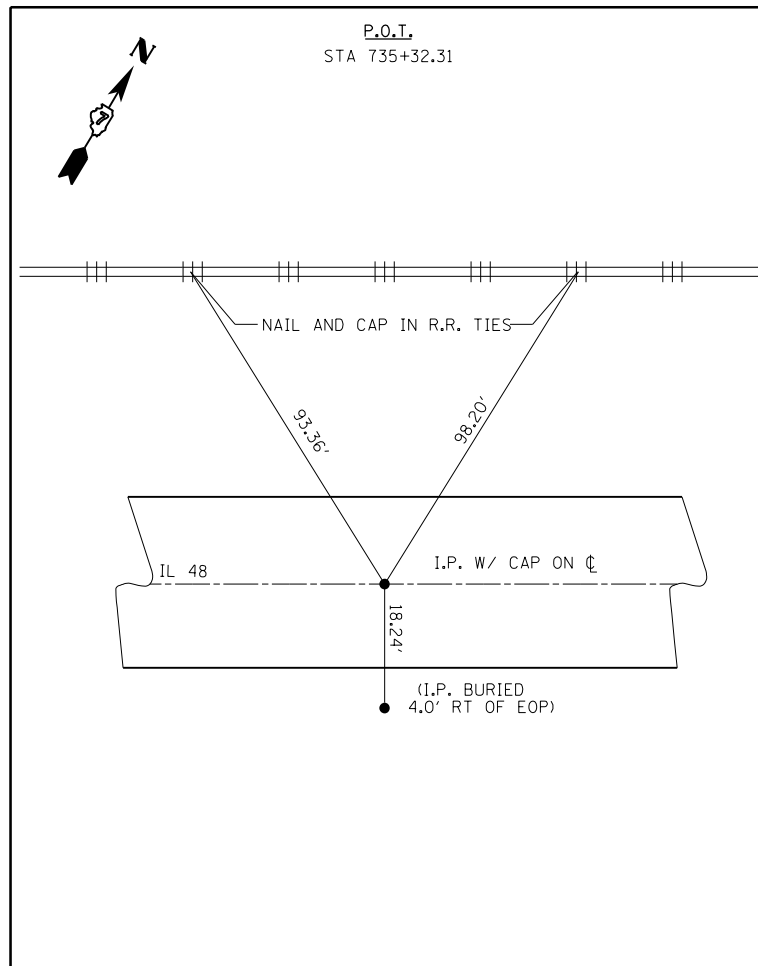
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT TIES AND
PERMANENT SURVEY MARKERS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Platt	44	19
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				

•(125,126,126R)RS-2&(126BR)B
•FAS 1536 & FAU 7464

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.



PROTECTING OR RESETTING SURVEY MARKERS

LOCATION STATION	OFFSET (FOOT)	DESCRIPTION	EACH
278+00.00	0	MAG NAIL W/ WASHER	1
281+73.24	0	I.P. W/ YELLOW CAP - FLUSH	1
300+04.53	0	I.P. W/ YELLOW CAP - FLUSH	1
302+00.00	0	MAG NAIL W/ WASHER	1
607+16.87	0	I.P. W/ YELLOW CAP - FLUSH - BURIED 2"	1
614+13.50	0	ALUM IDOT DISK - FLUSH	1
628+11.35	0	MAG NAIL W/ WASHER - FLUSH	1
692+85.00	0	P.K. NAIL	1
735+32.31	0	I.P. W/ YELLOW CAP - FLUSH	1
744+56.30	0	I.P. W/ YELLOW CAP - FLUSH	1
756+38.00	0	I.P. W/ YELLOW CAP - FLUSH	1
760+67.00	0	MAG NAIL - FLUSH	1
785+49.00	0	MAG NAIL - FLUSH	1
TOTAL			13

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -
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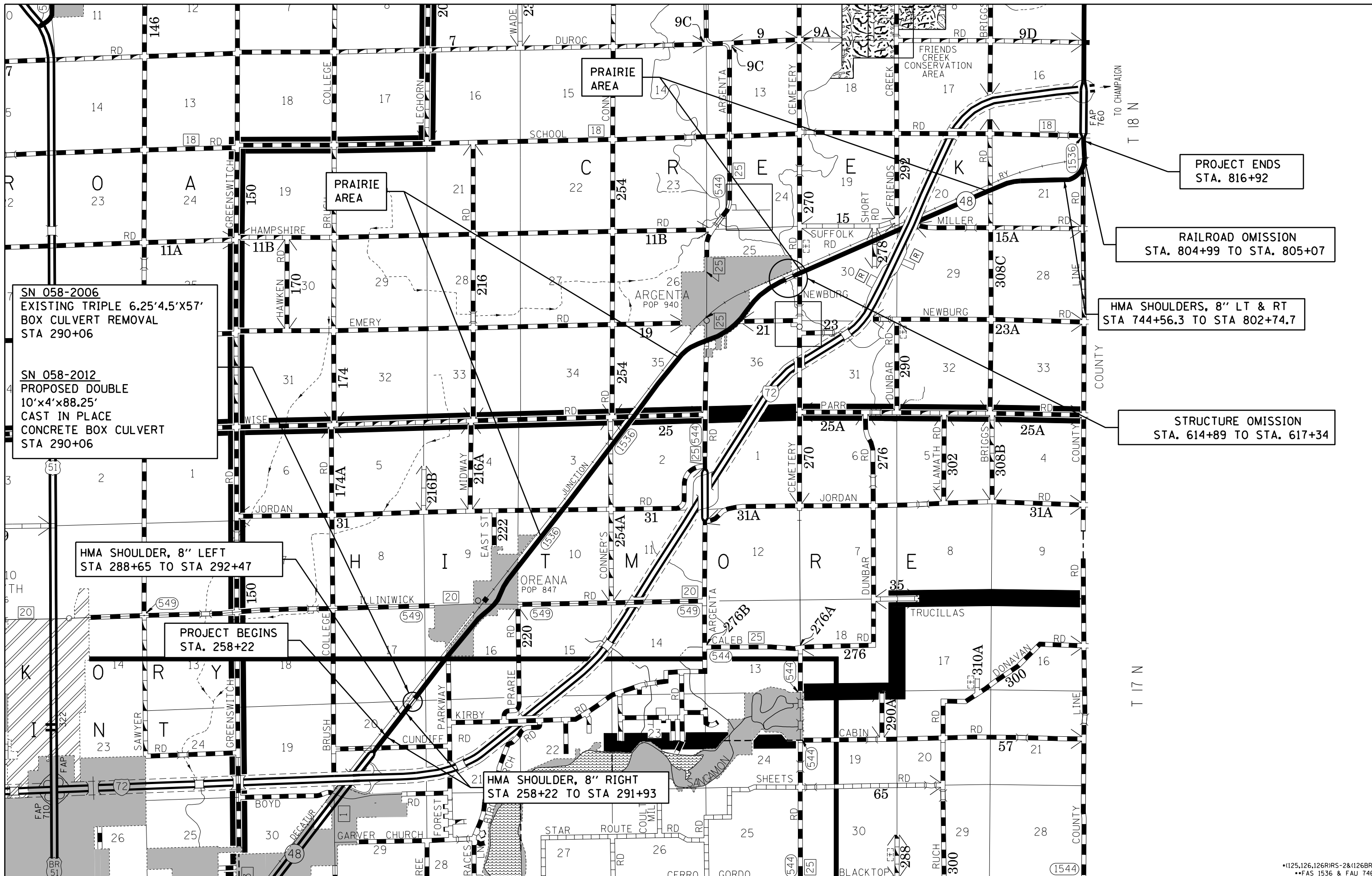
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT TIES AND
PERMANENT SURVEY MARKERS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	.	Macon, Platt	44	20
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				

•(125,126,126RIRS-2&(126BR)B
•FAS 1536 & FAU 7464



SN 058-2006
 EXISTING TRIPLE 6.25'x4.5'x57'
 BOX CULVERT REMOVAL
 STA 290+06

SN 058-2012
 PROPOSED DOUBLE
 10'x4'x88.25'
 CAST IN PLACE
 CONCRETE BOX CULVERT
 STA 290+06

HMA SHOULDER, 8" LEFT
 STA 288+65 TO STA 292+47

PROJECT BEGINS
 STA. 258+22

HMA SHOULDER, 8" RIGHT
 STA 258+22 TO STA 291+93

PROJECT ENDS
 STA. 816+92

RAILROAD OMISSION
 STA. 804+99 TO STA. 805+07

HMA SHOULDERS, 8" LT & RT
 STA 744+56.3 TO STA 802+74.7

STRUCTURE OMISSION
 STA. 614+89 TO STA. 617+34

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		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

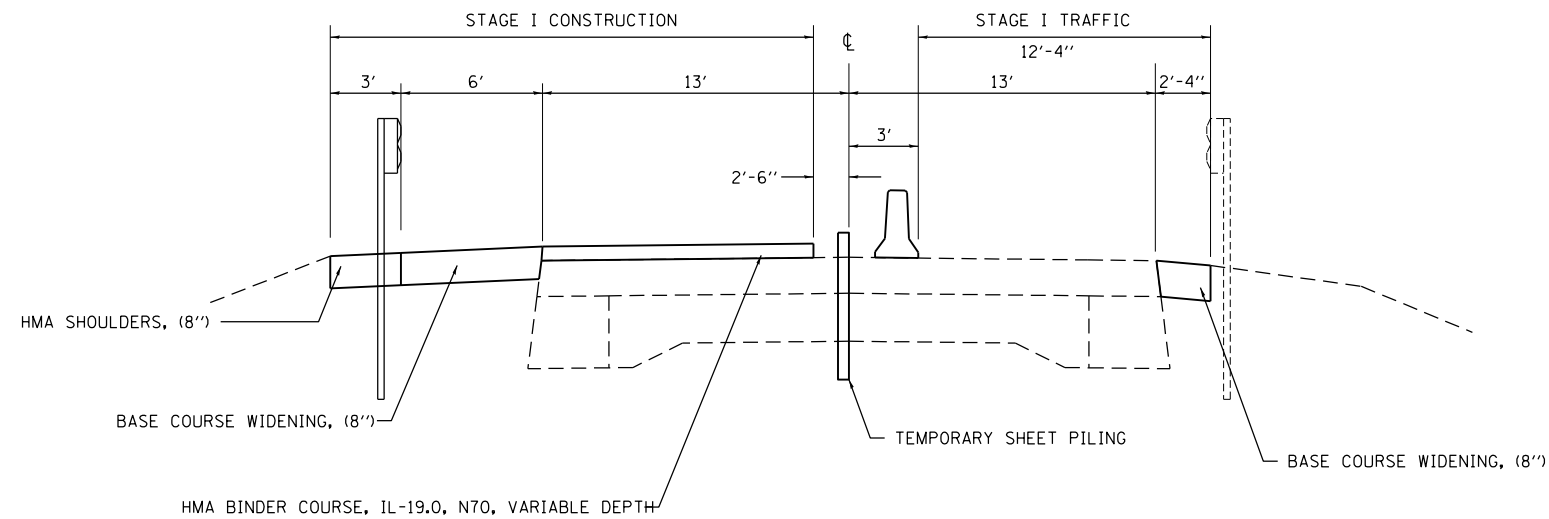
LOCATION MAP

SCALE: 1" = 5000' SHEET 1 OF 1 SHEETS STA. TO STA.

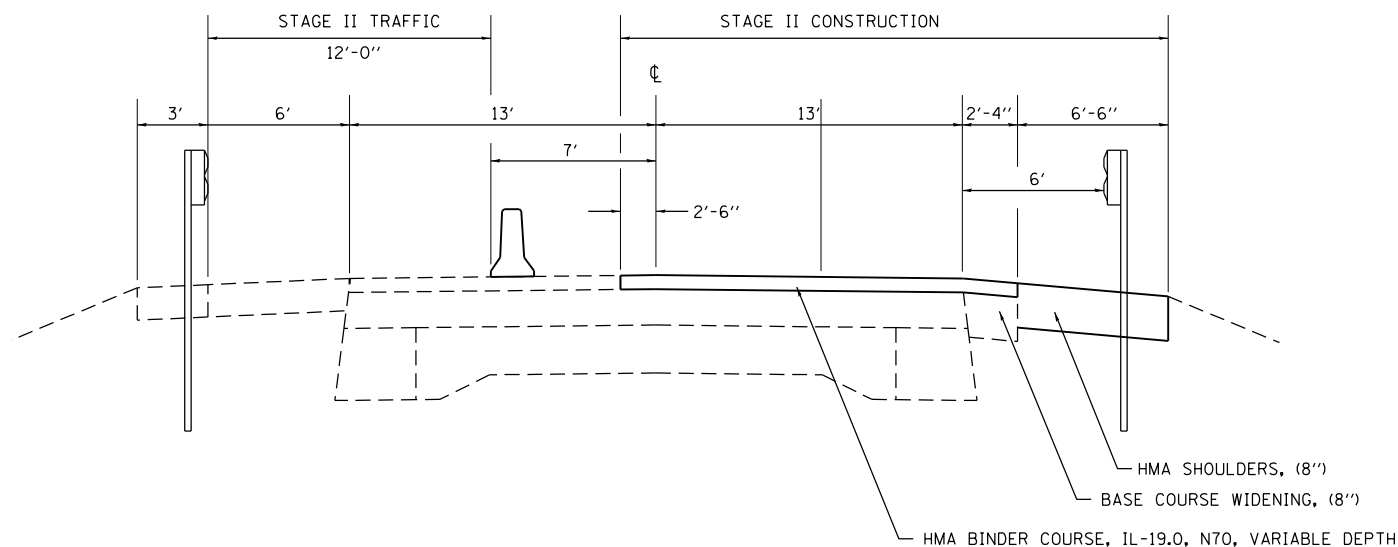
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	.	MACON, PIATT	44	21
CONTRACT NO. 74156				

ILLINOIS FED. AID PROJECT

•(125,126,126R)RS-28(126BR)B
 ••FAS 1536 & FAU 7464



STAGE I
TYPICAL SECTION



STAGE II
TYPICAL SECTION

BOX CULVERT REPLACEMENT

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE 1

- 1) CONSTRUCT BASE COURSE WIDENING FROM RT STA. 288+15 TO RT STA 292+08 TO PREPARE FOR STAGE 1 CONSTRUCTION/TRAFFIC CONTROL

STAGE 1

- 1) SETUP STAGE 1 TRAFFIC CONTROL
- 2) CONSTRUCT STAGE 1 BOX CULVERT AND WINGWALLS
- 3) CONSTRUCT HMA FULL-DEPTH PAVEMENT (EXCEPT SURFACE COURSE)
- 4) CONSTRUCT WIDENING FROM LT STA. 287+65 TO LT STA. 292+47 FOR STAGE 2 CONSTRUCTION/TRAFFIC CONTROL
- 5) CONSTRUCT SHOULDER
- 6) INSTALL GUARDRAIL FOR STAGE 2 TRAFFIC

STAGE 2

- 1) SETUP STAGE 2 TRAFFIC CONTROL
- 2) CONSTRUCT STAGE 2 BOX CULVERT AND WINGWALLS
- 3) CONSTRUCT HMA FULL-DEPTH PAVEMENT (EXCEPT SURFACE COURSE)
- 4) CONSTRUCT SHOULDER
- 5) INSTALL GUARDRAIL
- 6) CONSTRUCT HMA SURFACE COURSE ON BOTH STAGES

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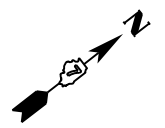
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT REPLACEMENT
STAGE CONSTRUCTION TYPICAL SECTIONS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

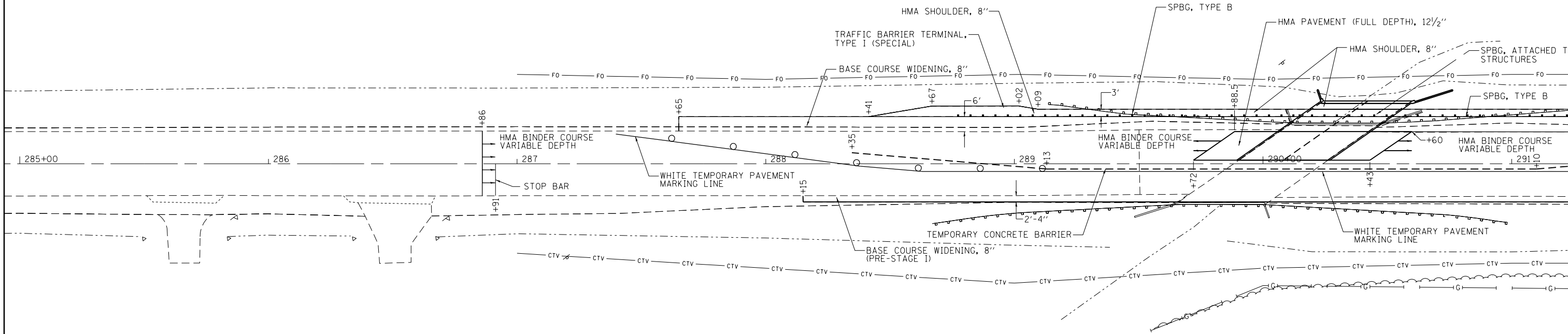
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..	.	Macon, Platt	44	22
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

*(125,126,126R)RS-2&(126BR)B
**FAS 1536 & FAU 7464

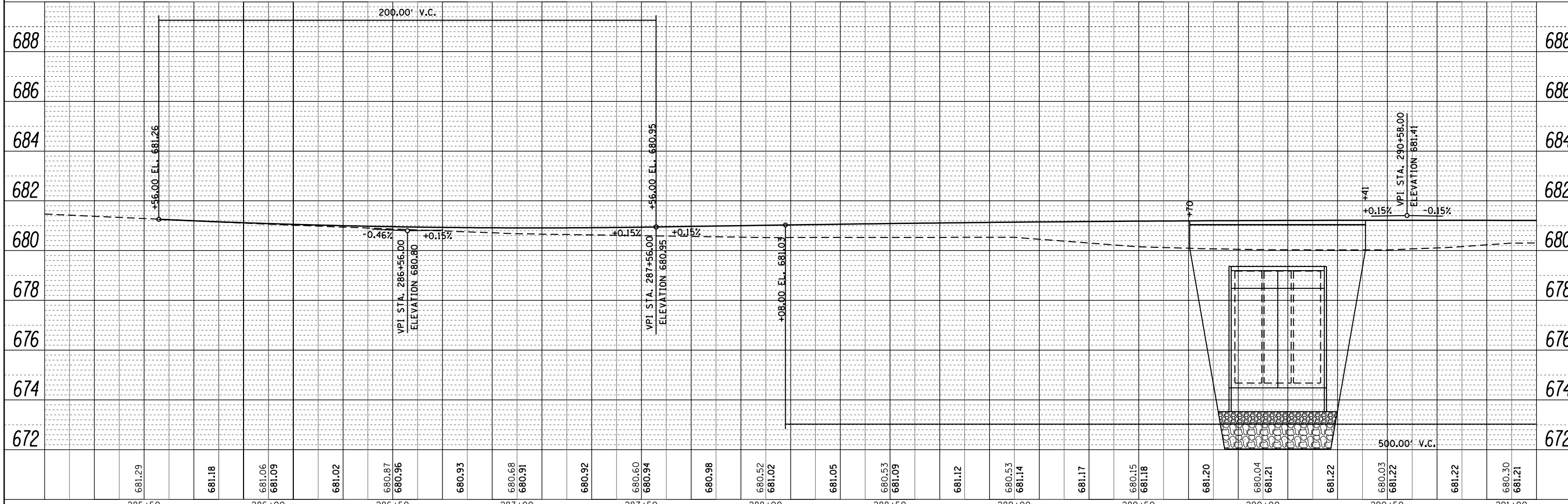


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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

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

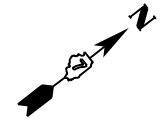


NOTE: THE BOX CULVERT SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT.
SEE CROSS-SECTIONS FOR EARTH EXCAVATION QUANTITIES



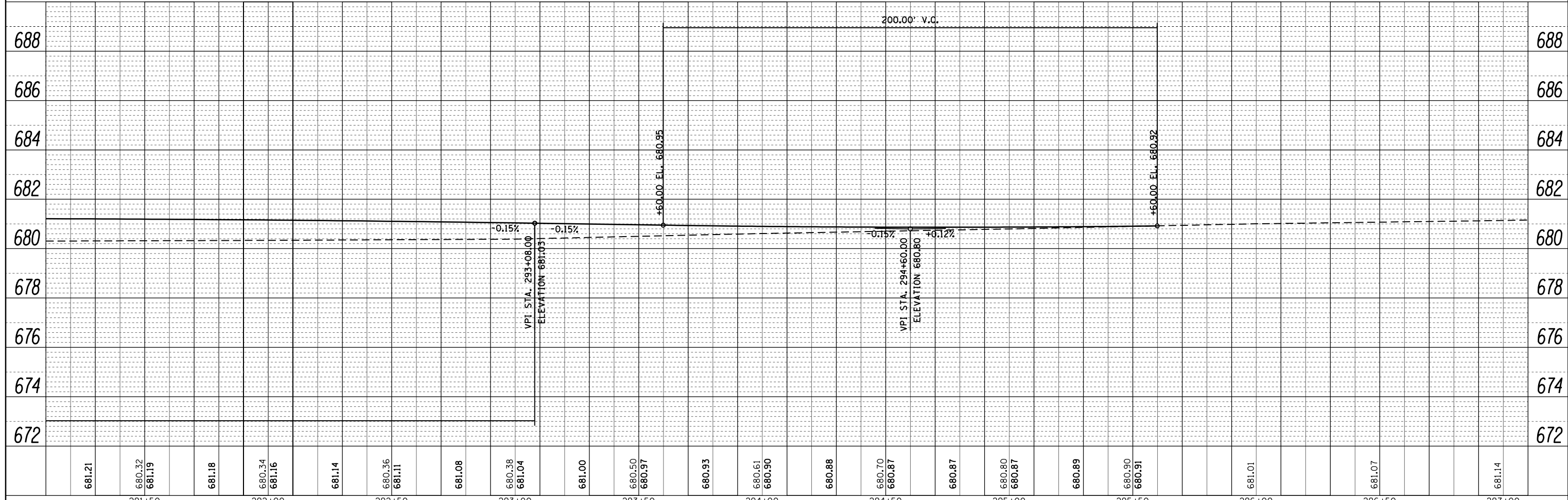
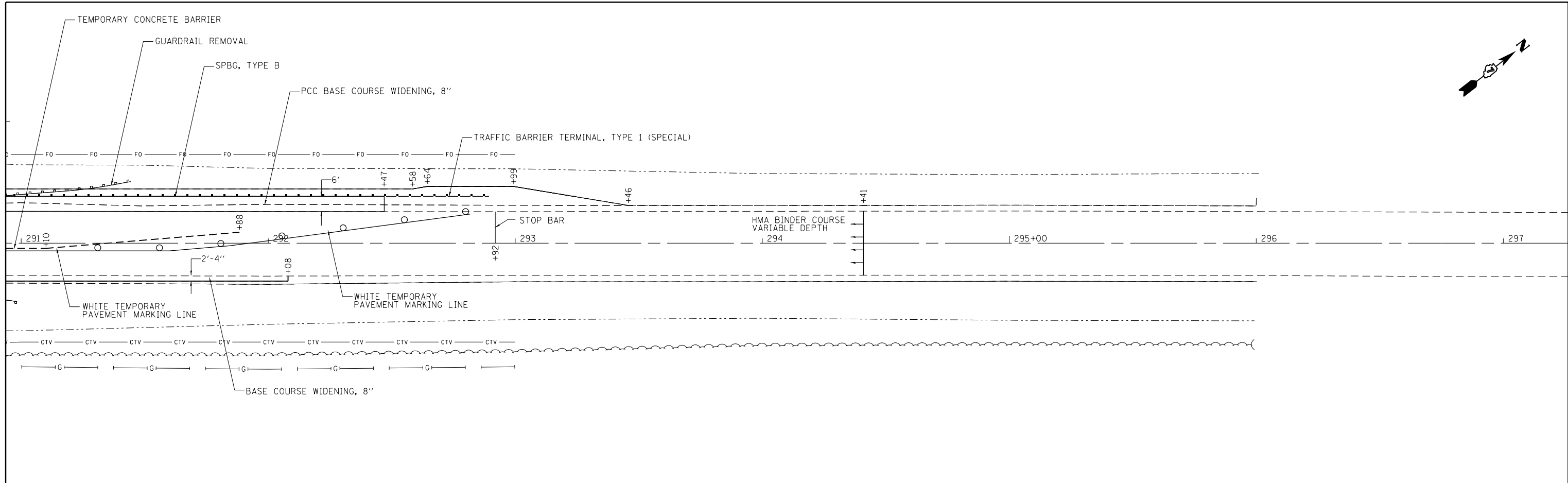
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PLOT DATE = 10/30/2012		DATE -	REVISED -						ILLINOIS FED. AID PROJECT	

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.



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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
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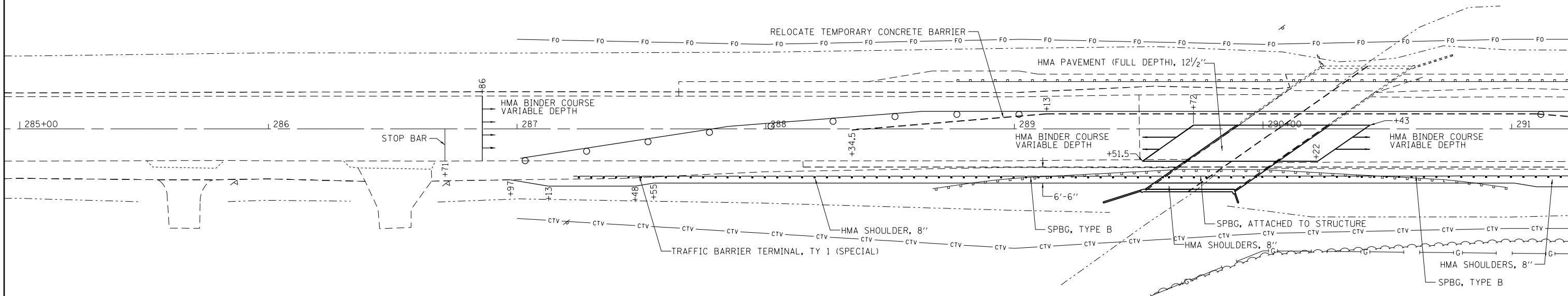


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PLOT DATE = 10/30/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

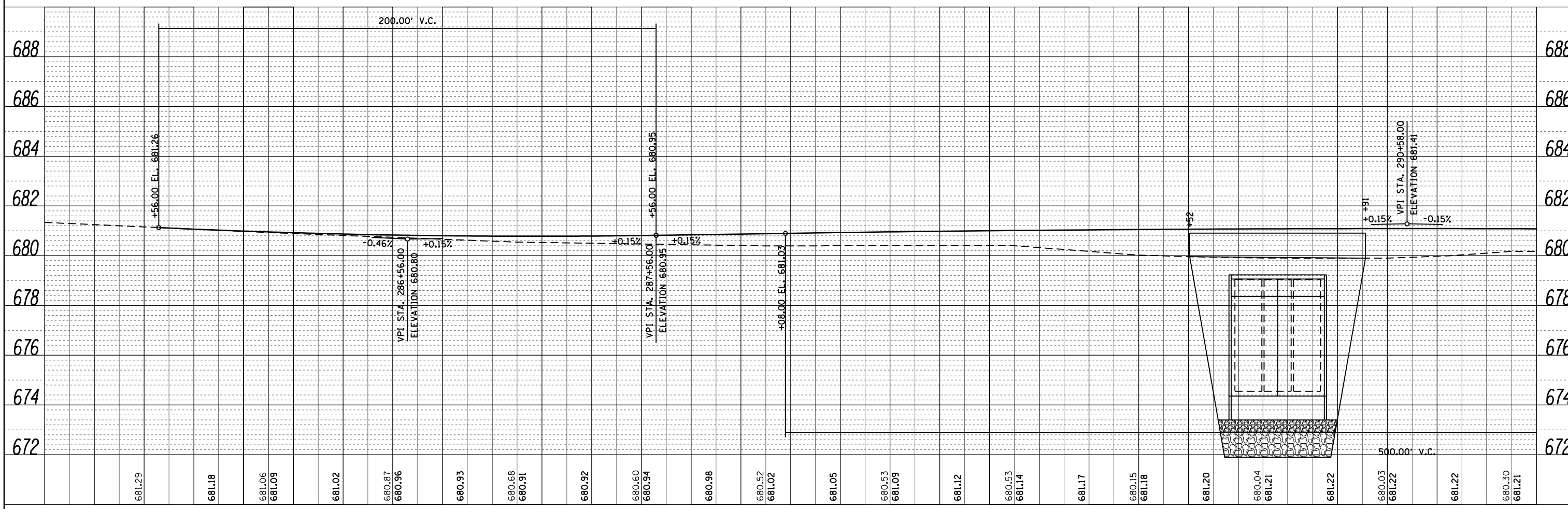
SCALE: 1" = 20" SHEET 2 OF 2 SHEETS STA. TO STA.

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	PLOTTED		
	NOTE BOOK		
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PROFILE	SURVEYED	BY	DATE
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	GRADES CHECKED		
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	NO.		



NOTE: THE BOX CULVERT SHALL BE BACKFILLED WITH POROUS GRANULAR EMBANKMENT



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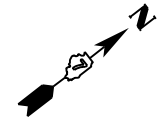
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2
PLAN AND PROFILE

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

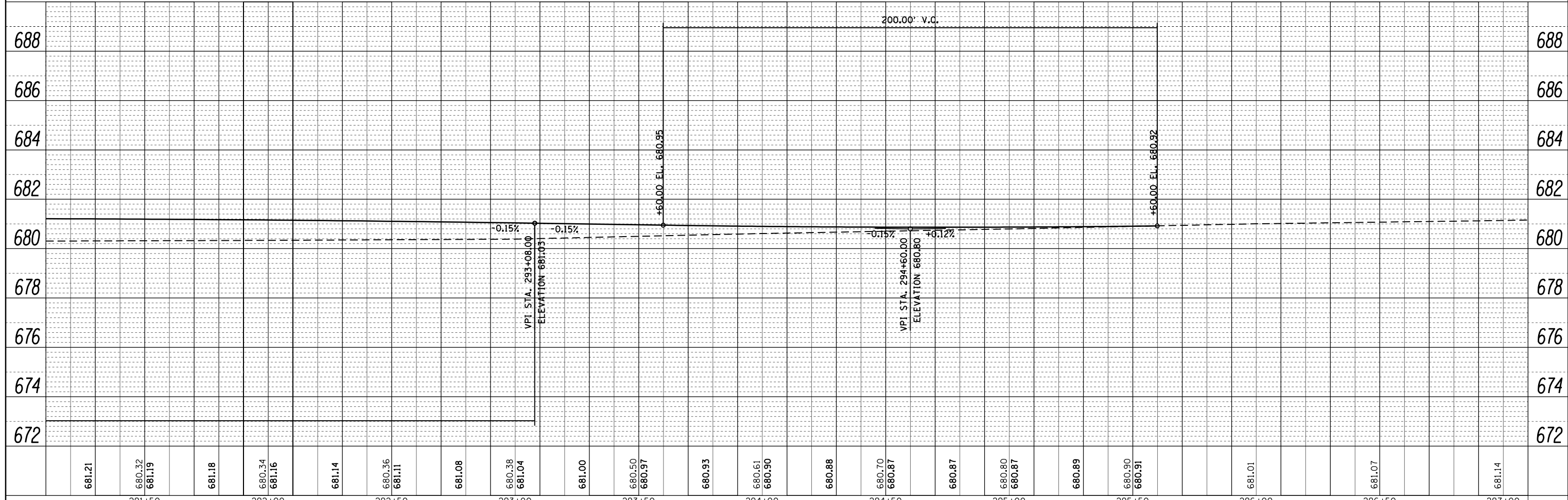
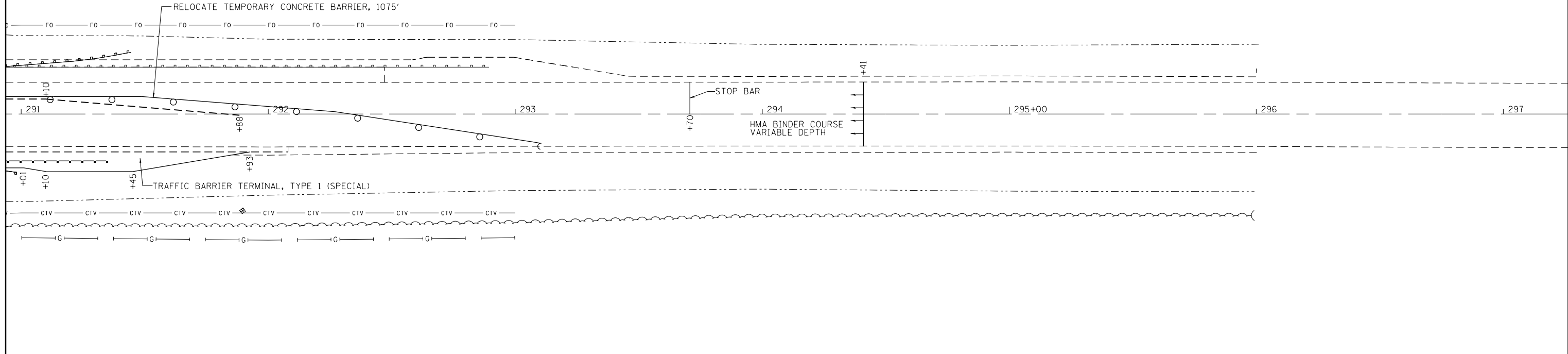
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••125,126,126R/RS-2&126BR/B	Macon, Platt		44	25
••FAS 1536 & FAU 7464				CONTRACT NO. 74156

ILLINOIS FED. AID PROJECT



PLAN	SURVEYED	BY	DATE
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NOTE BOOK NO.	FILE NAME		

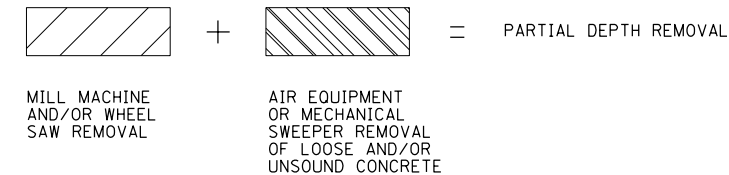
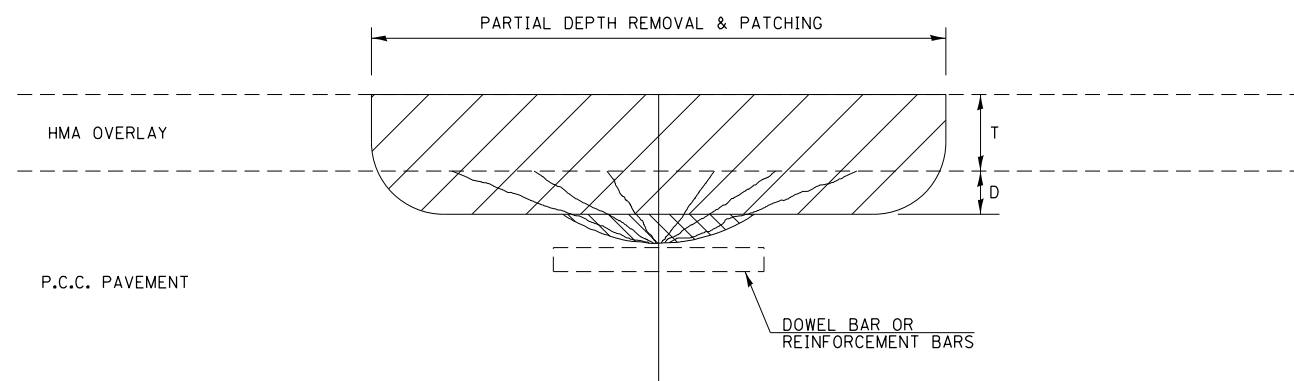
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	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.	FILE NAME		



FILE NAME =	USER NAME = teasleyk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 PLAN AND PROFILE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 10/30/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

RESURFACED PCC PAVEMENT



GENERAL NOTES

T = THICKNESS OF HMA OVERLAY(S). SEE EXISTING TYPICAL CROSS SECTION.

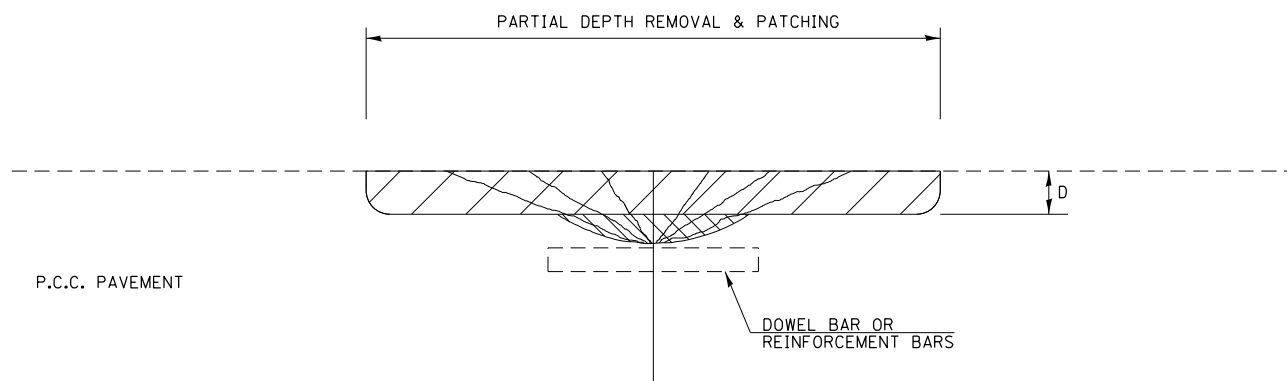
SEE GENERAL NOTES FOR MIXTURE REQUIREMENTS.

HMA REPLACEMENT IN RESURFACED PCC PAVEMENT LOCATIONS SHALL BE ACCORDING TO SECTION 406 OF THE STANDARD SPECIFICATIONS.

D = DEPTH OF PARTIAL DEPTH REMOVAL INTO EXISTING PCC PAVEMENT. (3" (75 mm) ± OR TO SOUND CONCRETE)

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.

BARE PCC PAVEMENT



NOT TO SCALE

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

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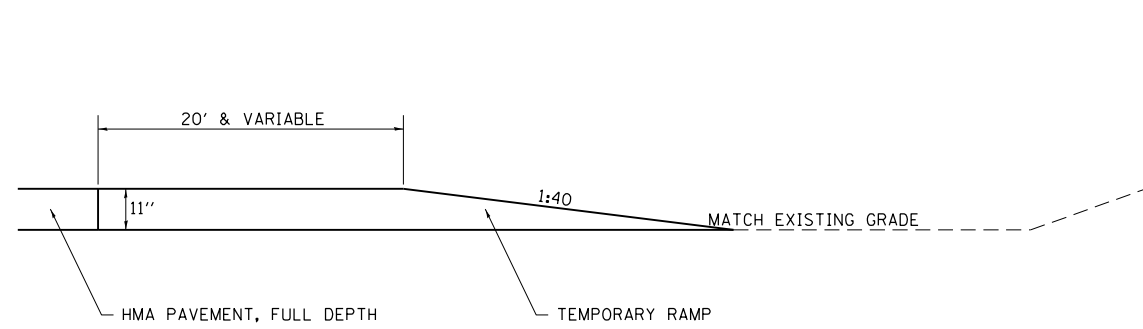
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING

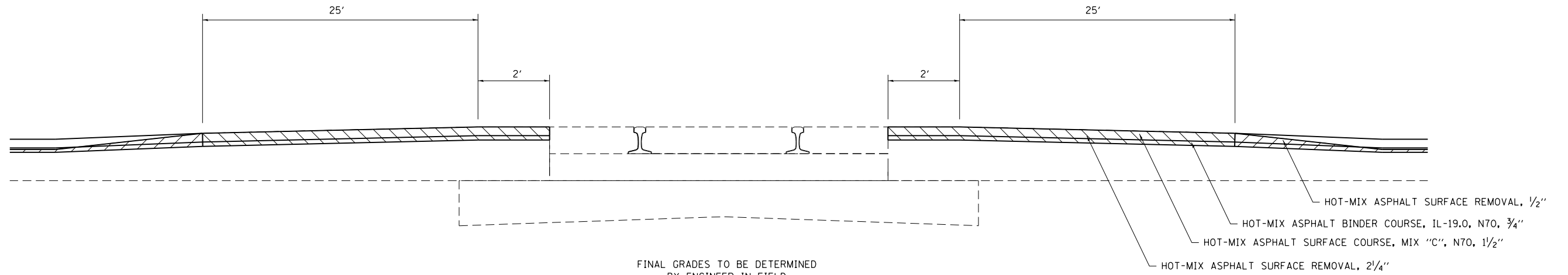
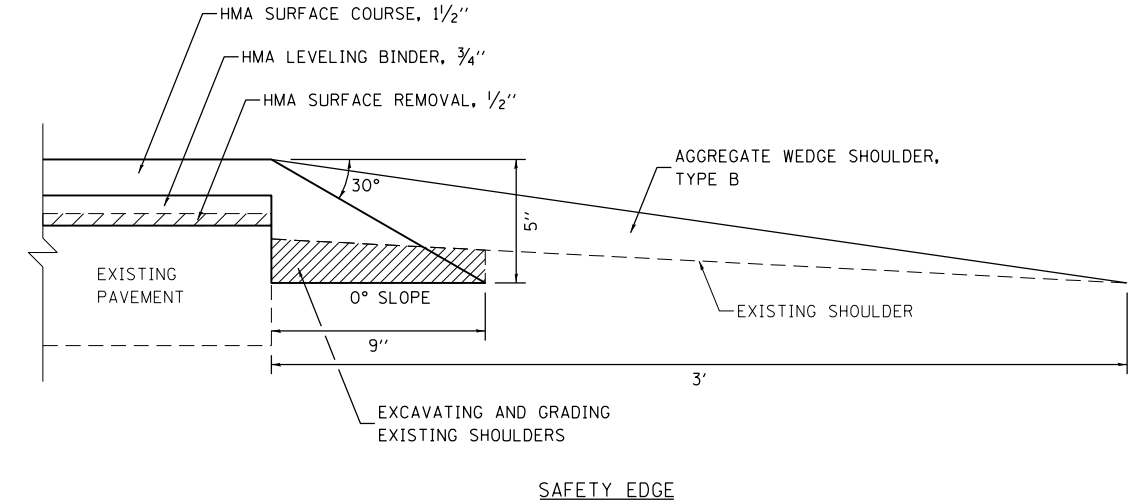
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. X4421000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
**	*	Macon, Plat	44	27
*(125,126,126R)RS-2&(126BR)B			CONTRACT NO. 74156	
ILLINOIS FED. AID PROJECT				



TEMPORARY RAMP DETAIL AT STRUCTURE
 STA 289+36 TO STA 289+88.5
 STA 290+22 TO STA 290+80



TYPICAL APPROACH PAVEMENT PROFILE AT RAILROAD

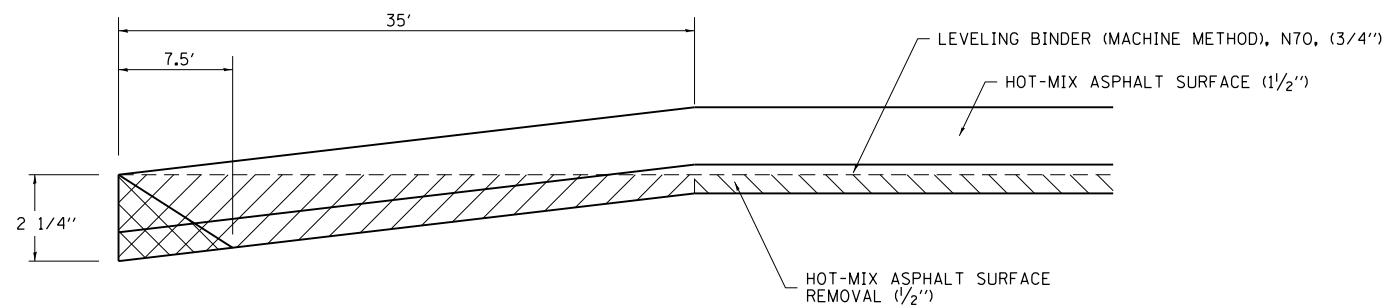
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

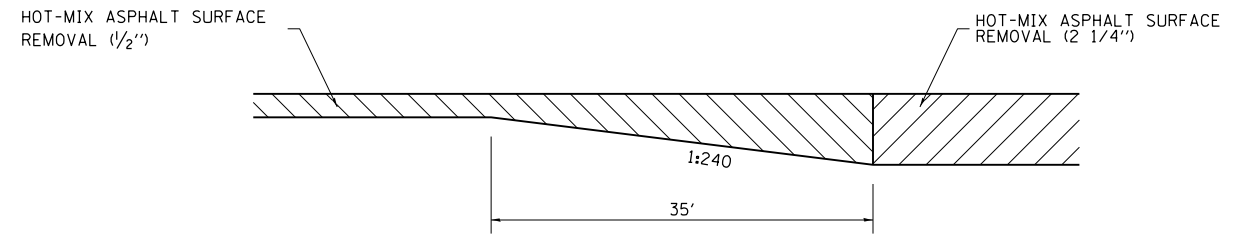
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
..	.	Macon, Plat	44	28
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

•(125,126,126R)RS-2&(126BR)B
 ••FAS 1536 & FAU 7464

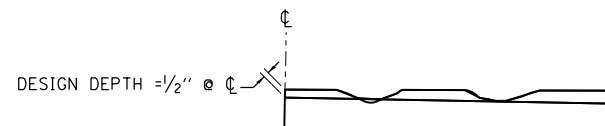


- HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT
- HOT-MIX ASPHALT SURFACE REMOVAL (1/2")
- TEMPORARY RAMP

BUTT JOINT DETAIL
 STA 258+22 TO STA 259+67
 STA 804+54 TO STA 804+99
 STA 805+07 TO STA 805+52
 STA 816+47 TO STA 816+92



MILLING TRANSITION DETAIL
 STA 609+99 TO STA 610+34
 STA 622+77 TO STA 623+12



NOTES:

1. MILLING SHALL BE DONE TO ATTAIN A 3/16"'/ SLOPE IN CROWN SECTIONS
2. EXISTING S.E. AND S.E. TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO OBTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE 1/2" BUT MAY VARY IN ISOLATED LOCATIONS.

DETAIL OF HMA REMOVAL 1/2" MILLING

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAILS			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.	TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
••	•	Macon, Plat	44	29
			CONTRACT NO. 74156	
ILLINOIS FED. AID PROJECT				

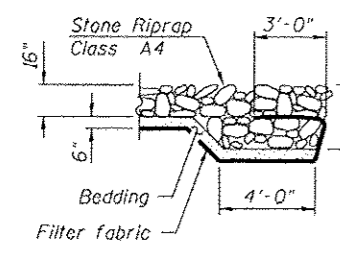
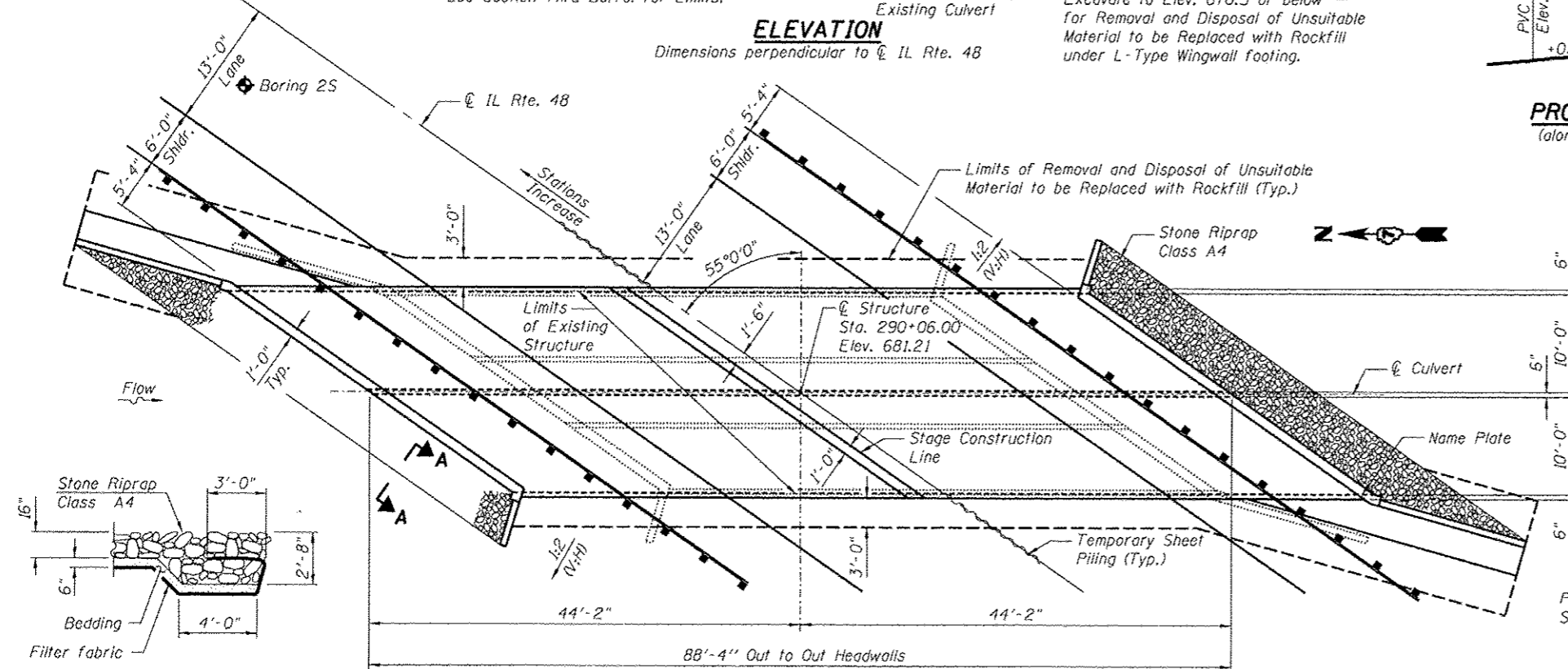
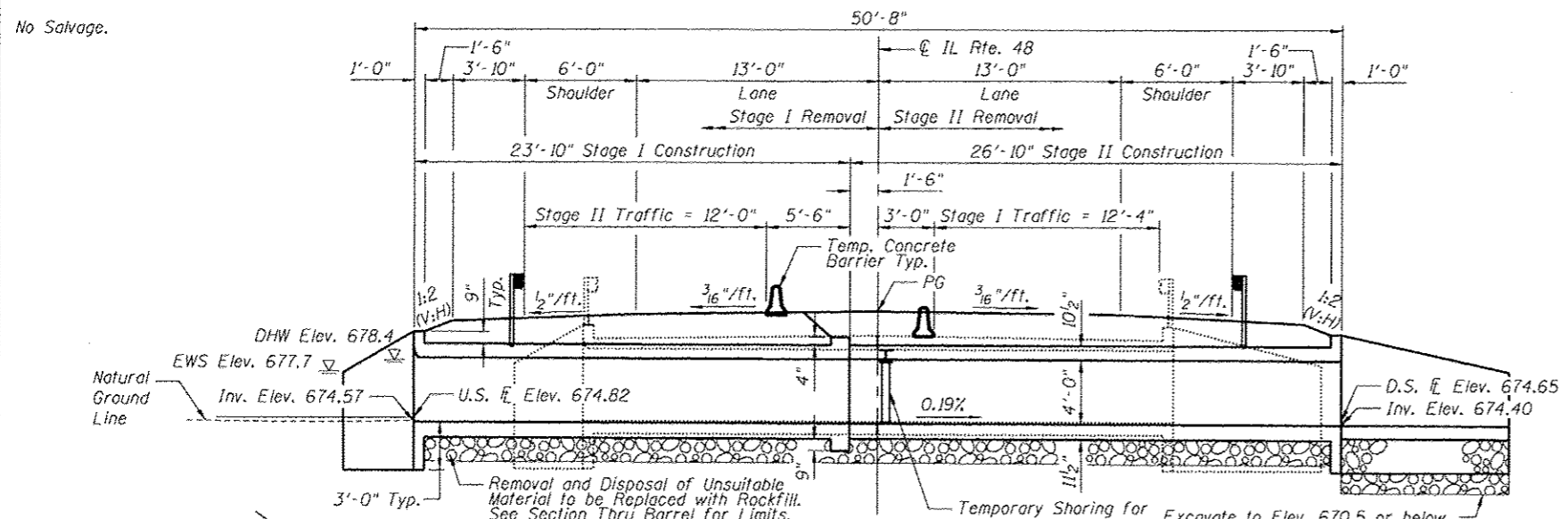
•(125,126,126R)RS-2&(126BR)B
 ••FAS 1536 & FAU 7464

Bench Mark: Chiseled square on northwest corner of hub guard. Sta. 290+47, 15.9' Lt., Elev. 680.53

Existing Structure: S.N. 058-2006 built in 1970 as triple 6'-3"x4'-6" R.C. box culvert. 30'-8" face to face of headwall with culvert length of 56'-11 1/2".

Traffic to be maintained utilizing stage construction.

No Salvage.



WATERWAY INFORMATION

Drainage Area = 1.46 sq. mi.

Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater Et. Exist.	Headwater Et. Prop.
Design	10	238	55	61	678.0	0.3	0.1	678.3	678.1
Base	50	381	62	69	678.4	0.7	0.4	679.1	678.8
Overtopping	100	444	66	72	678.6	0.9	0.7	679.5	679.3
Max. Calc.	250	530	68	72	678.7	1.4		680.1	
	500	596	70	72	678.8	1.5	1.7	680.3	680.5

Exist. Low Grade Elev. = 680.03 @ Sta. 290+50
 Prop. Low Grade Elev. = 680.87 @ Sta. 295+00

10-Year Velocity through Existing Bridge = 4.33 fps
 10-Year Velocity through Proposed Bridge = 3.90 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	671.40	671.57

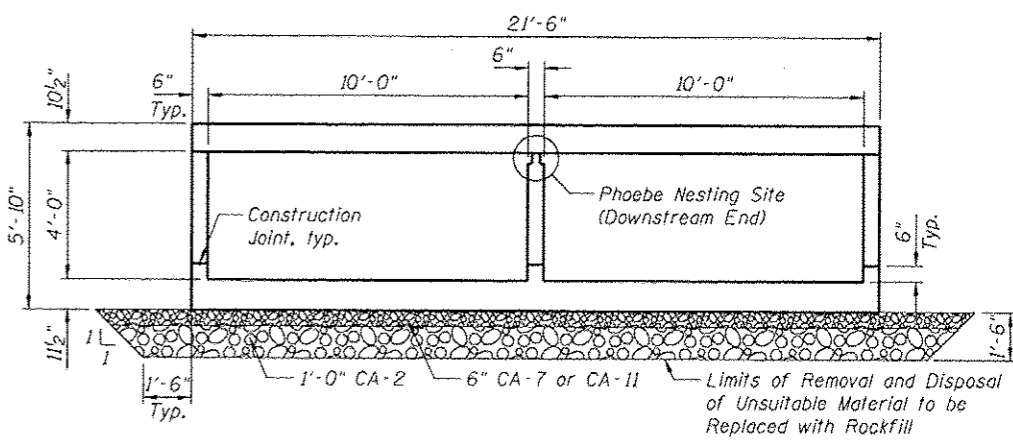
LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface
DESIGN SPECIFICATIONS
 2002 AASHTO

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

STATION 290+06.00
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.U. RT. 7464 SEC. (126BR)B
 LOADING HS20-44
 STR. NO. 058-2012

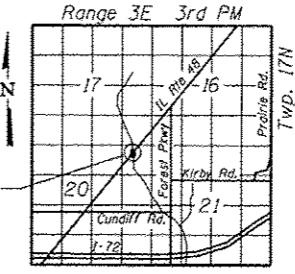
GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Precast alternative is not allowed.



INDEX OF SHEETS

1. General Plan & Elevation
2. Stage Construction Details
3. Temporary Concrete Barrier for stage construction
4. Temporary Shoring Details
5. Slab Details
6. Culvert Details
7. Bar Splicer Assembly and Mechanical Splicer Details
8. Boring Logs



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	174.8
Stone Riprap, Class A4	Sq. Yd.	34.4
Filter Fabric	Sq. Yd.	34.4
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	700
Reinforcement Bars, Epoxy Coated	Pound	65760
Bar Splicers	Each	119
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	168.9
Temporary Sheet Piling	Sq. Ft.	457.2
Temporary Support System	L Sum	1
Rockfill	Cu. Yd.	174.8

APPROVED

For Structural Adequacy Only

Daniel Feuerborn
 Engineer of Bridges & Structures



Daniel Feuerborn
 Daniel Feuerborn
 License Expires 11-30-2014
 Date 2/27/13

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 48 OVER UNNAMED STREAM
F.A.U. RTE. 7464 - SEC. (126BR)B
MACON COUNTY
STATION 290+06.00
STRUCTURE NO. 058-2012



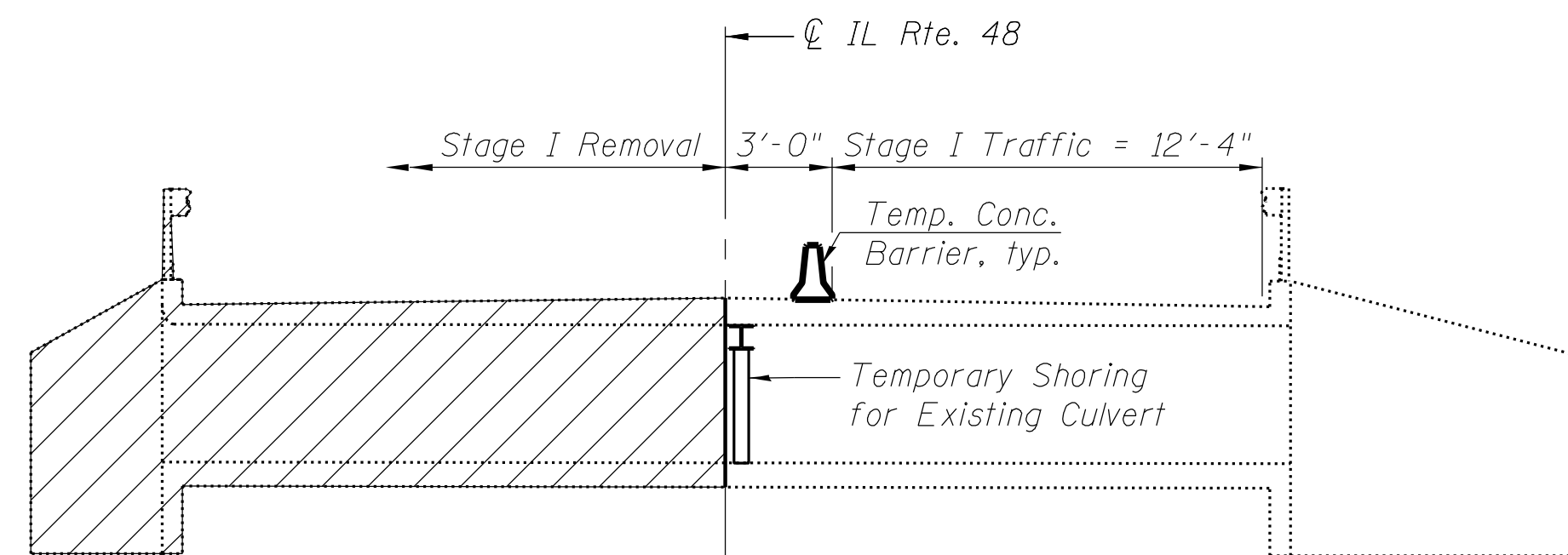
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

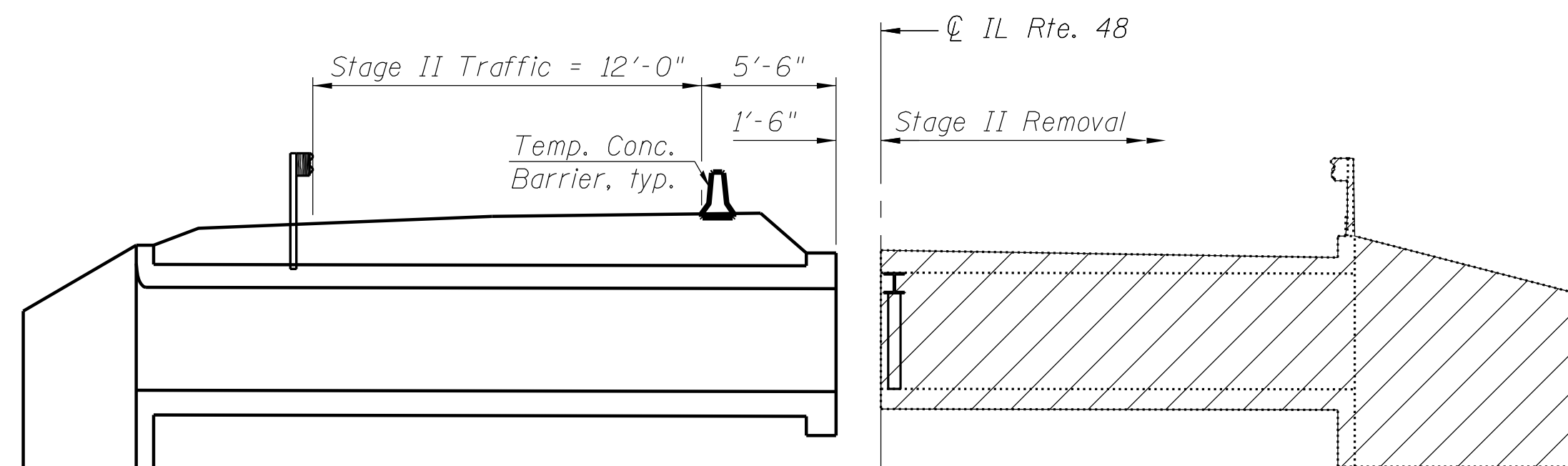
LETTERING FOR NAME PLATE
 See Std. 515001

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7464	(126BR)B	MACON	44	30

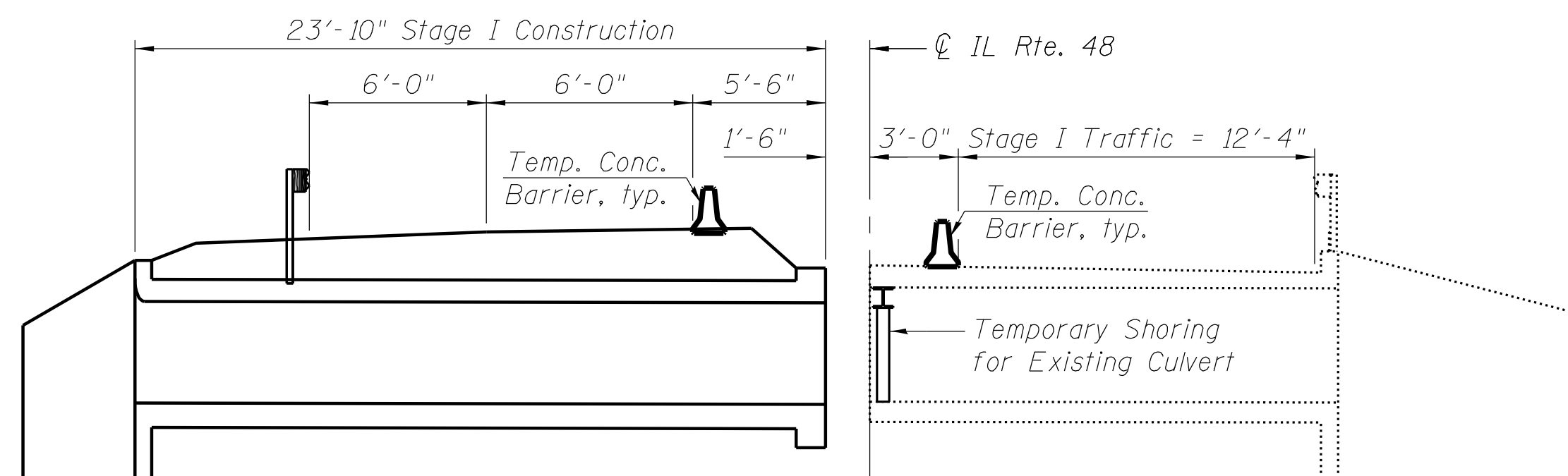
CONTRACT NO. 74156
 ILLINOIS FED. AID PROJECT



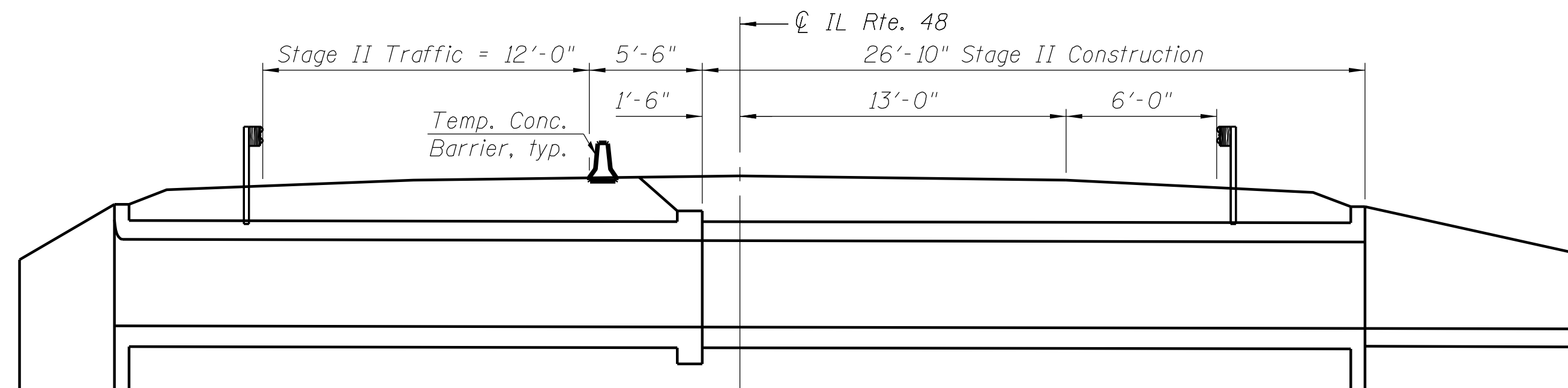
STAGE I REMOVAL



STAGE II REMOVAL

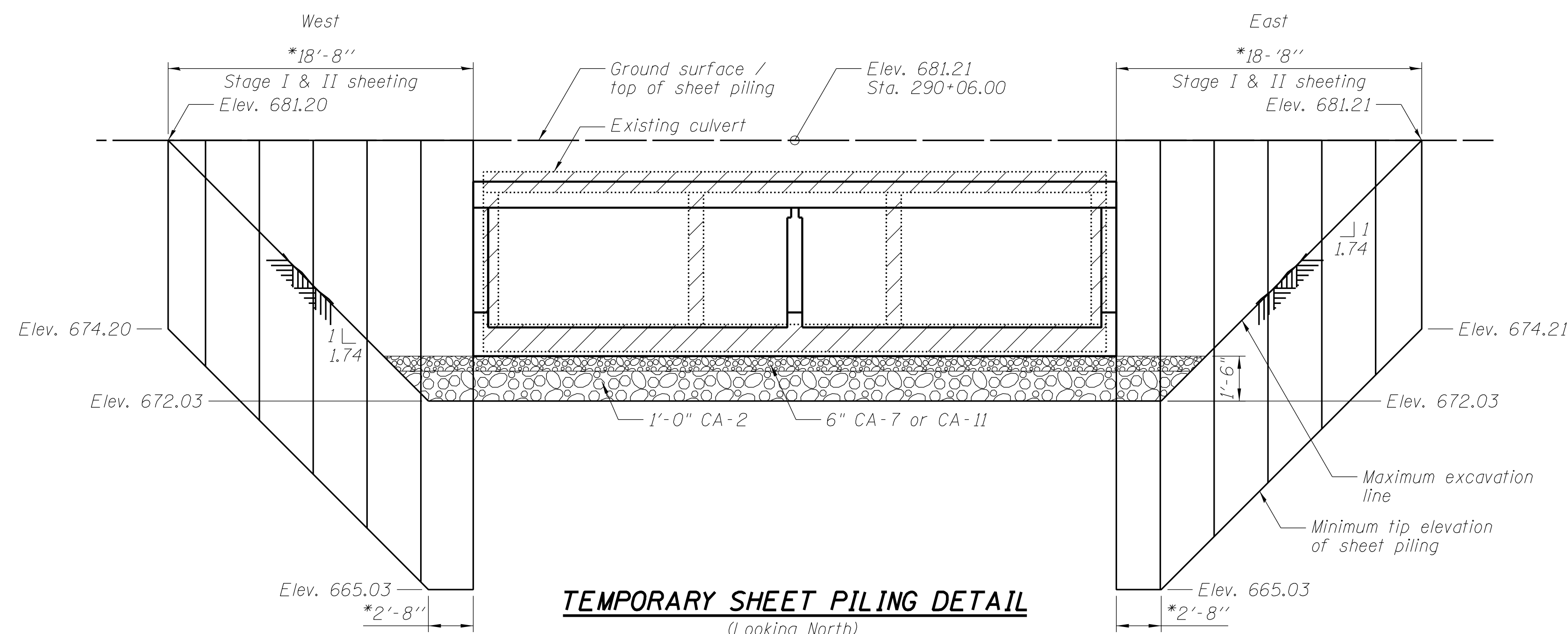


STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

For details to Temporary Concrete Barrier, see Sheet 3 of 8
 For Temporary Concrete Barrier quantity, see roadway plans
 All staging sections are looking East



TEMPORARY SHEET PILING DETAIL
 (Looking North)

Minimum Section Modulus = 9.0 in³/ft
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 See Sheet 4 of 8 for Temporary Shoring Details.

*Dimensions parallel to CL IL Route 48

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

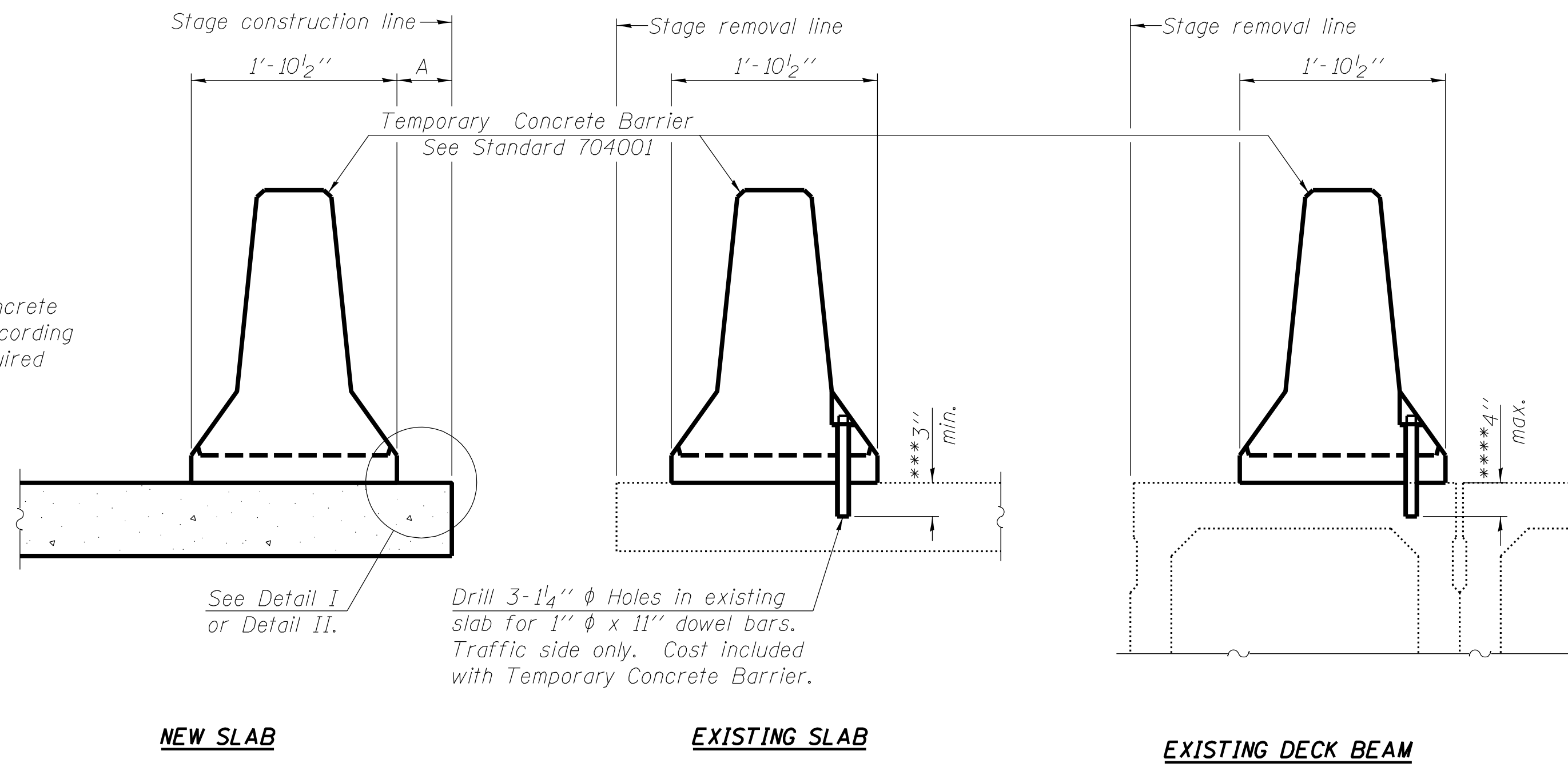
STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 058-2012

SHEET NO. 2 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7464	(126BR1B)	MACON	44	31
CONTRACT NO. 74156				

ILLINOIS FED. AID PROJECT

When "A" is 3'-6" 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'-6".



NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

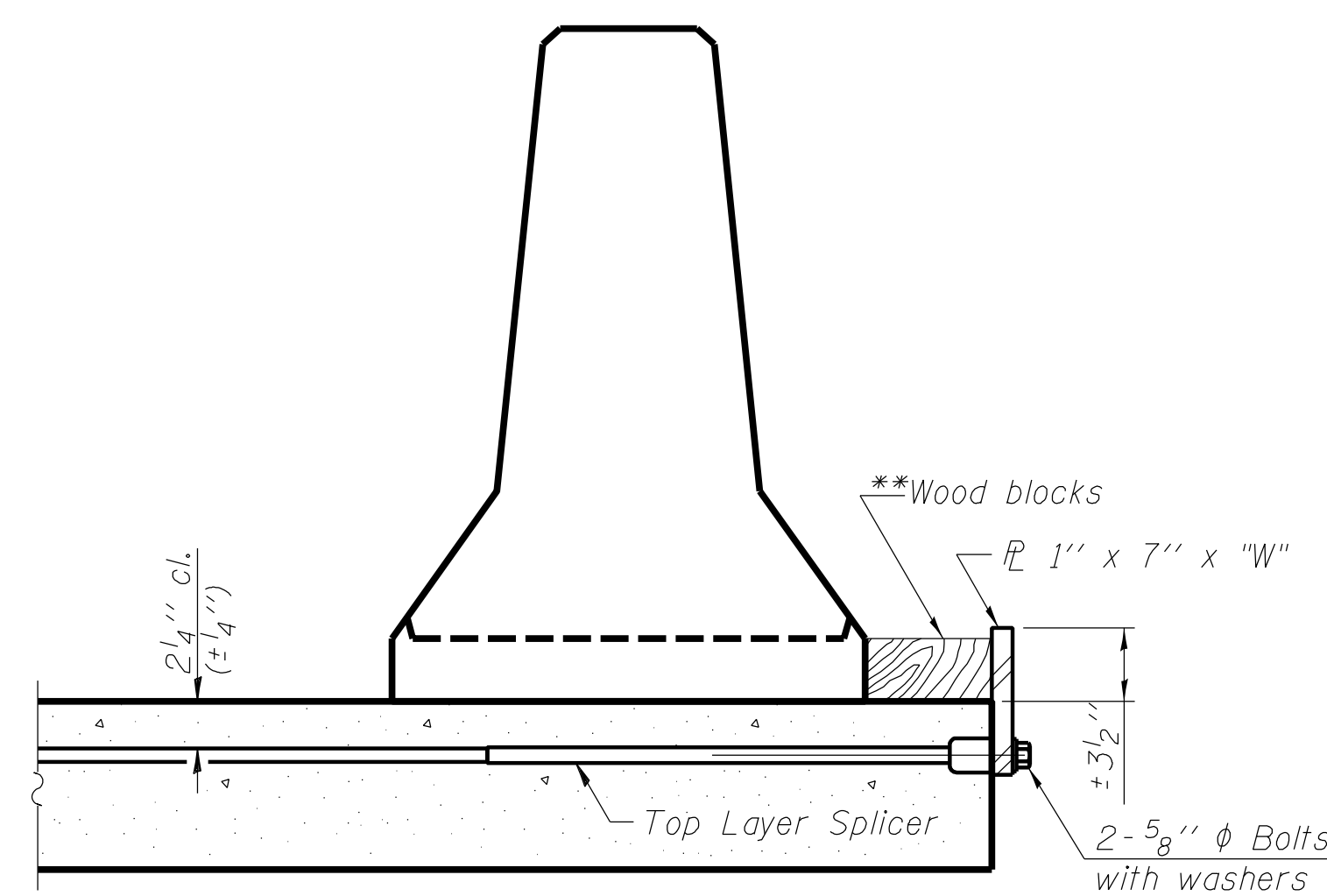
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage 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.

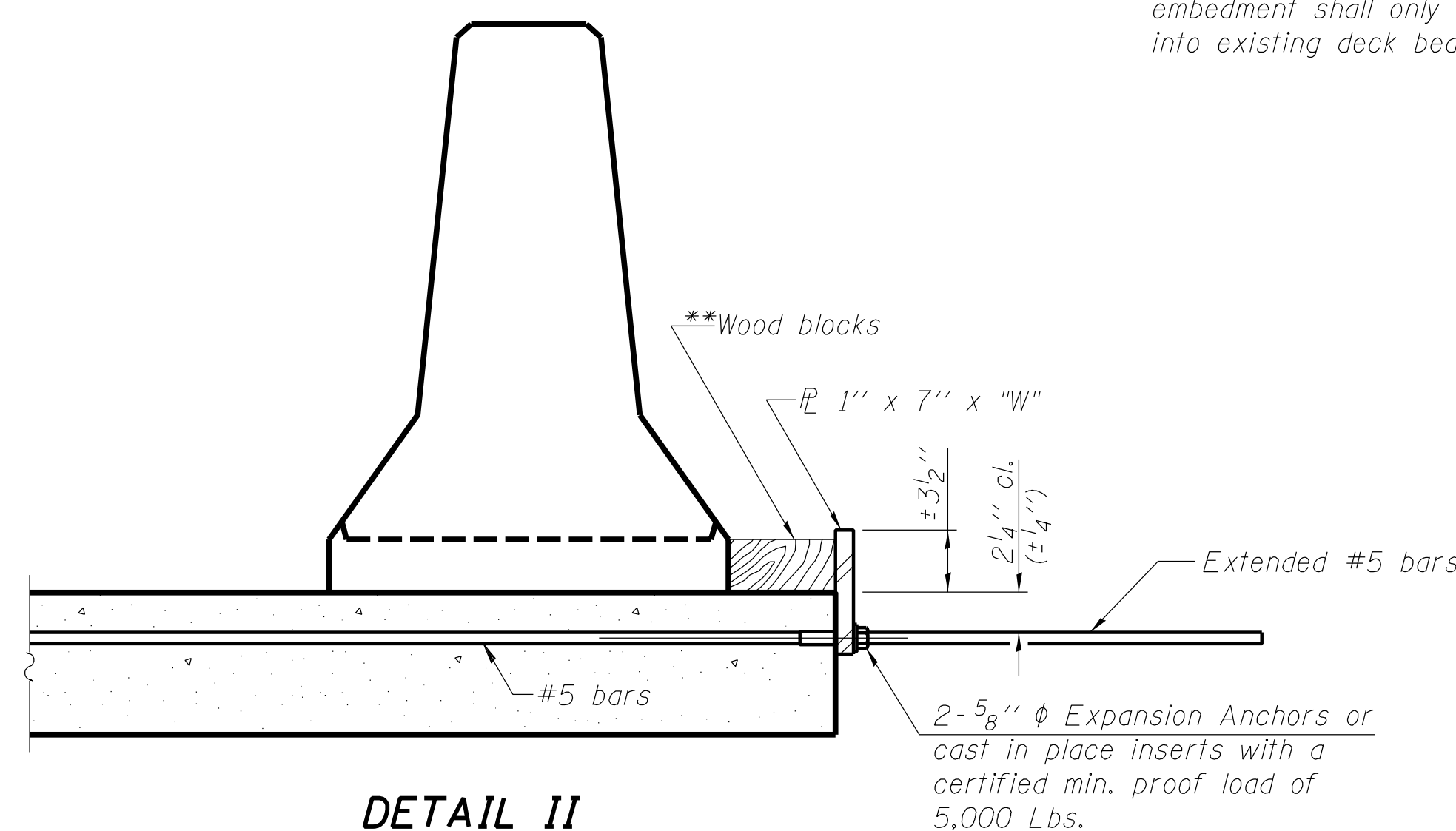
SECTIONS THRU SLAB OR DECK BEAM

*** 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.

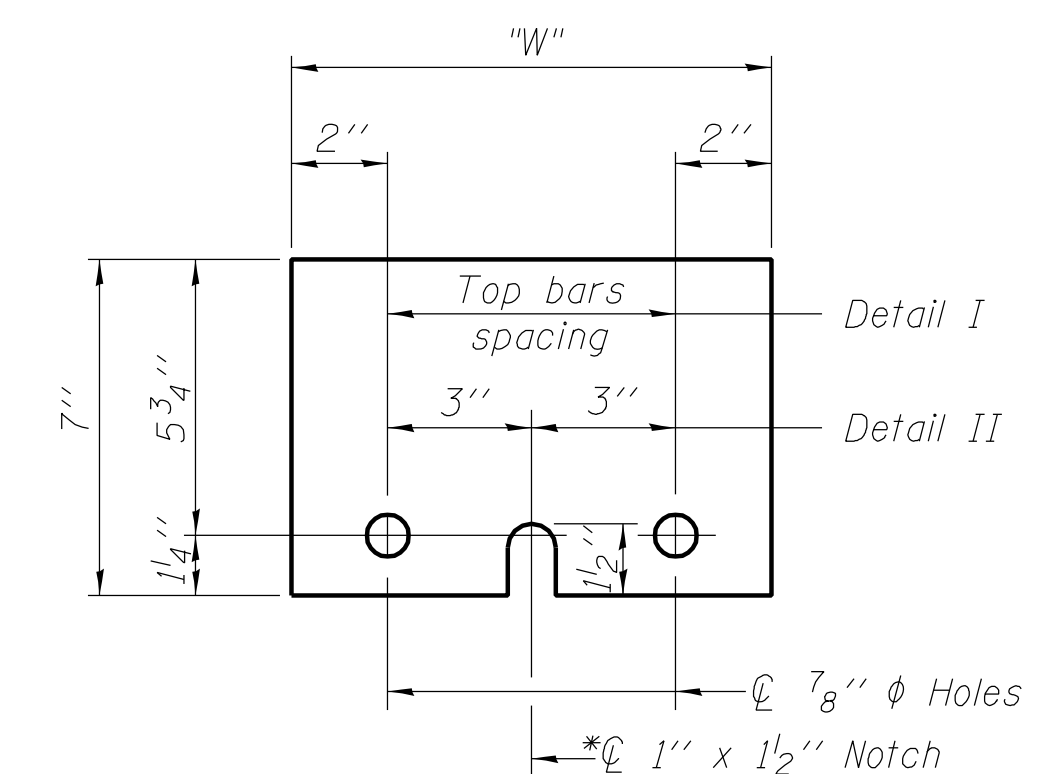
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

** 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.

"W" = Top bars spacing + 4"

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R-27

7-1-10



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

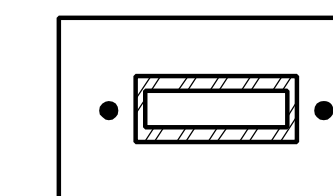
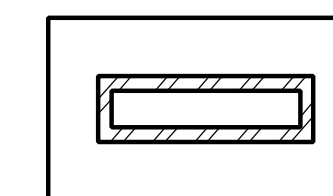
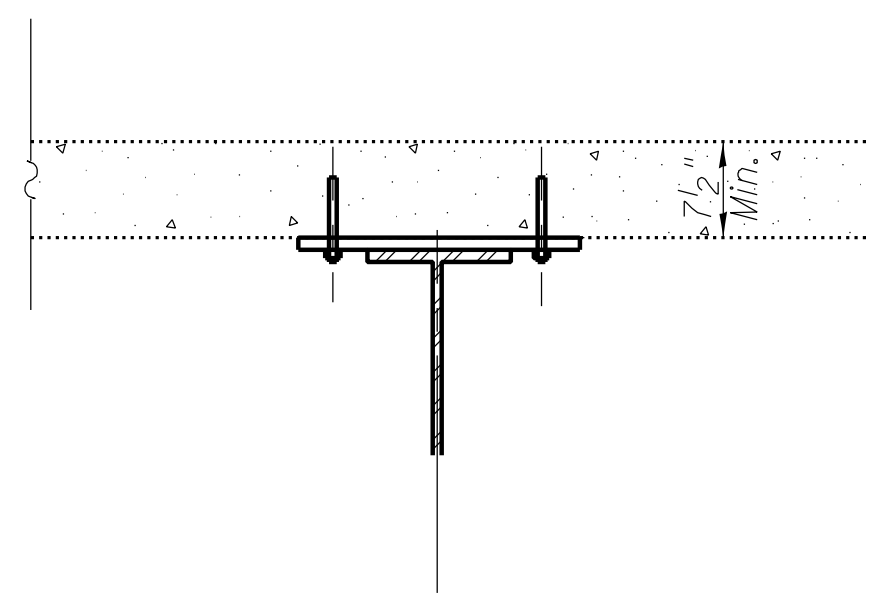
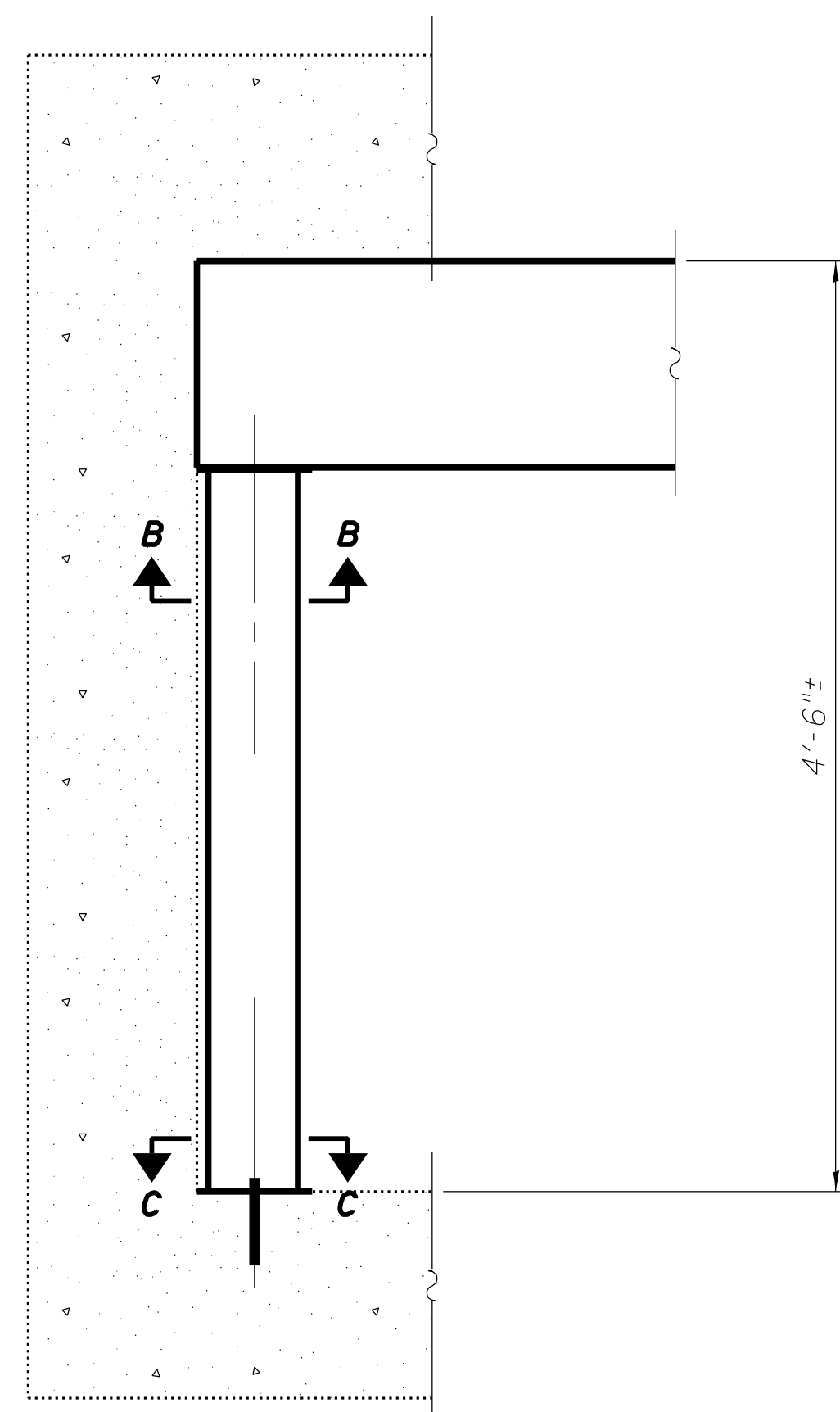
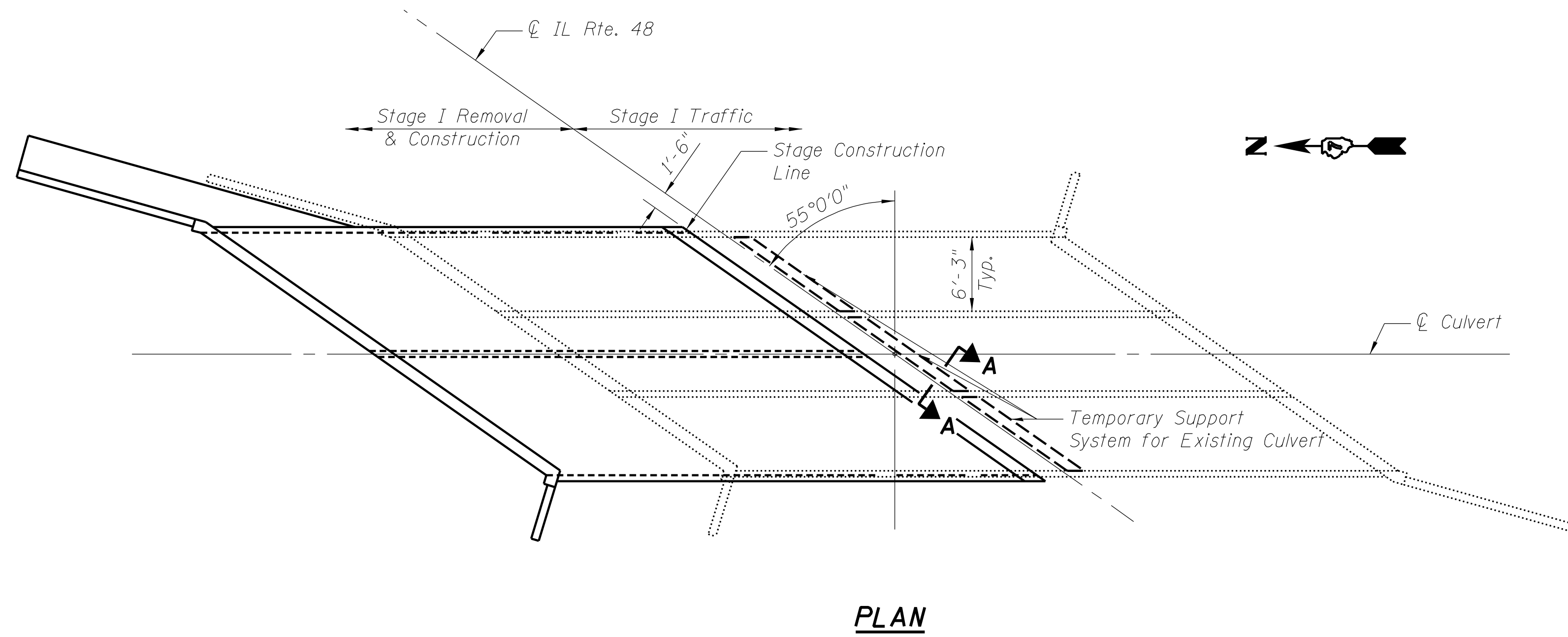
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 058-2012

SHEET NO. 3 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7464	(126BR)B	MACON	44	32
CONTRACT NO. 74156			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

The Contractor shall submit a Temporary Support System design. See special provision for Temporary Support System.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Support System	L. Sum	1

PRINTED DATE: 10/30/2012
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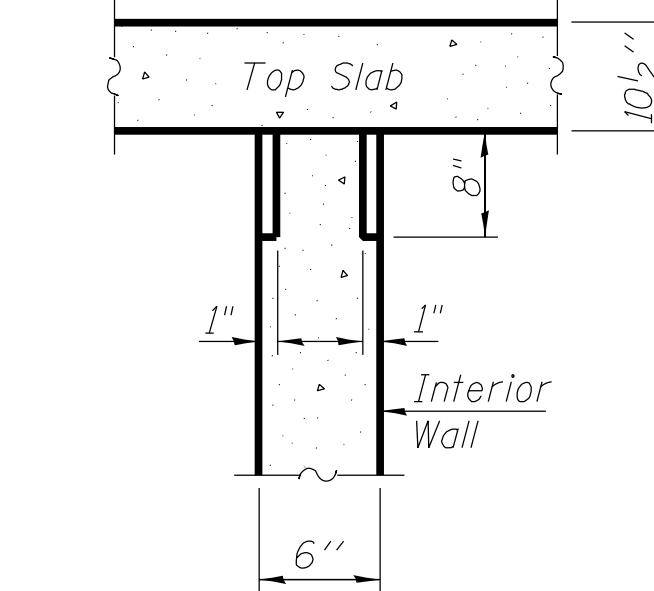
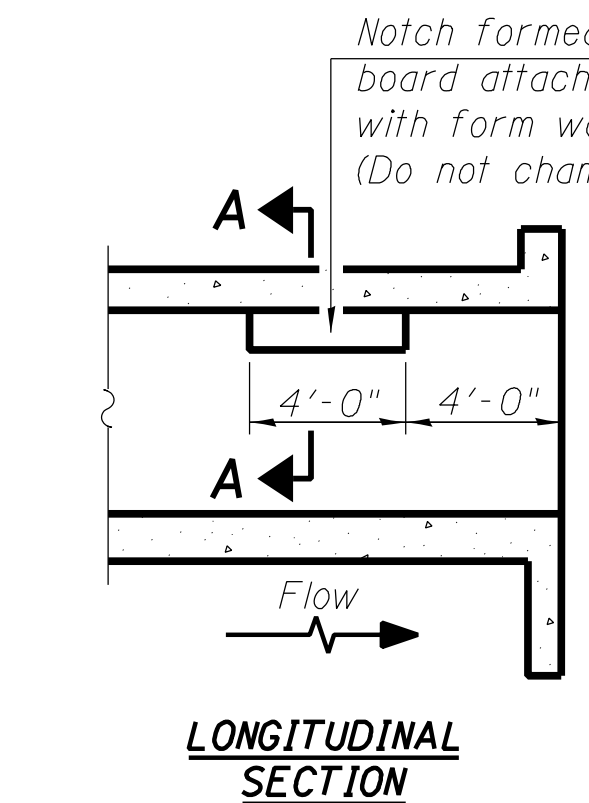
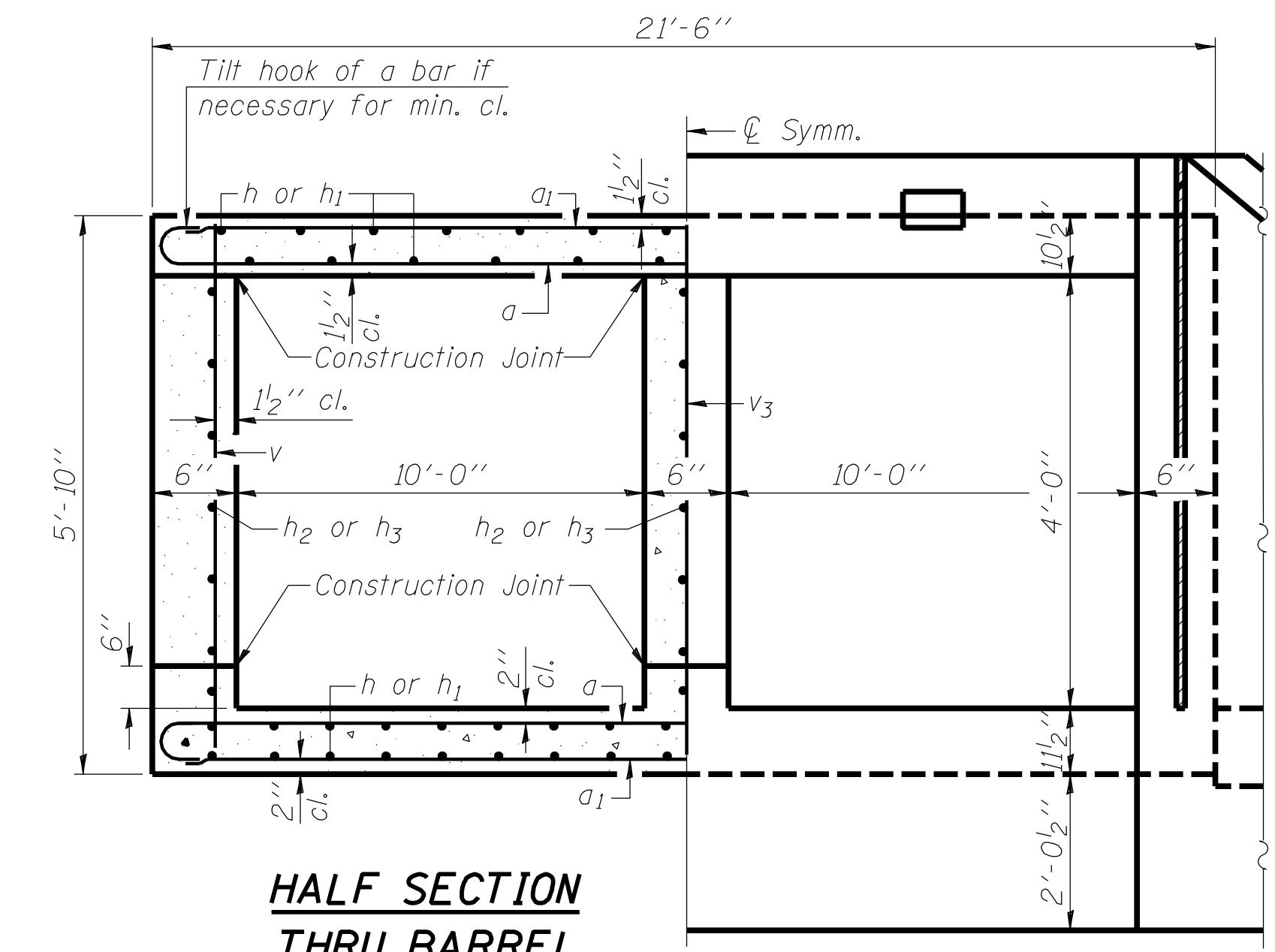
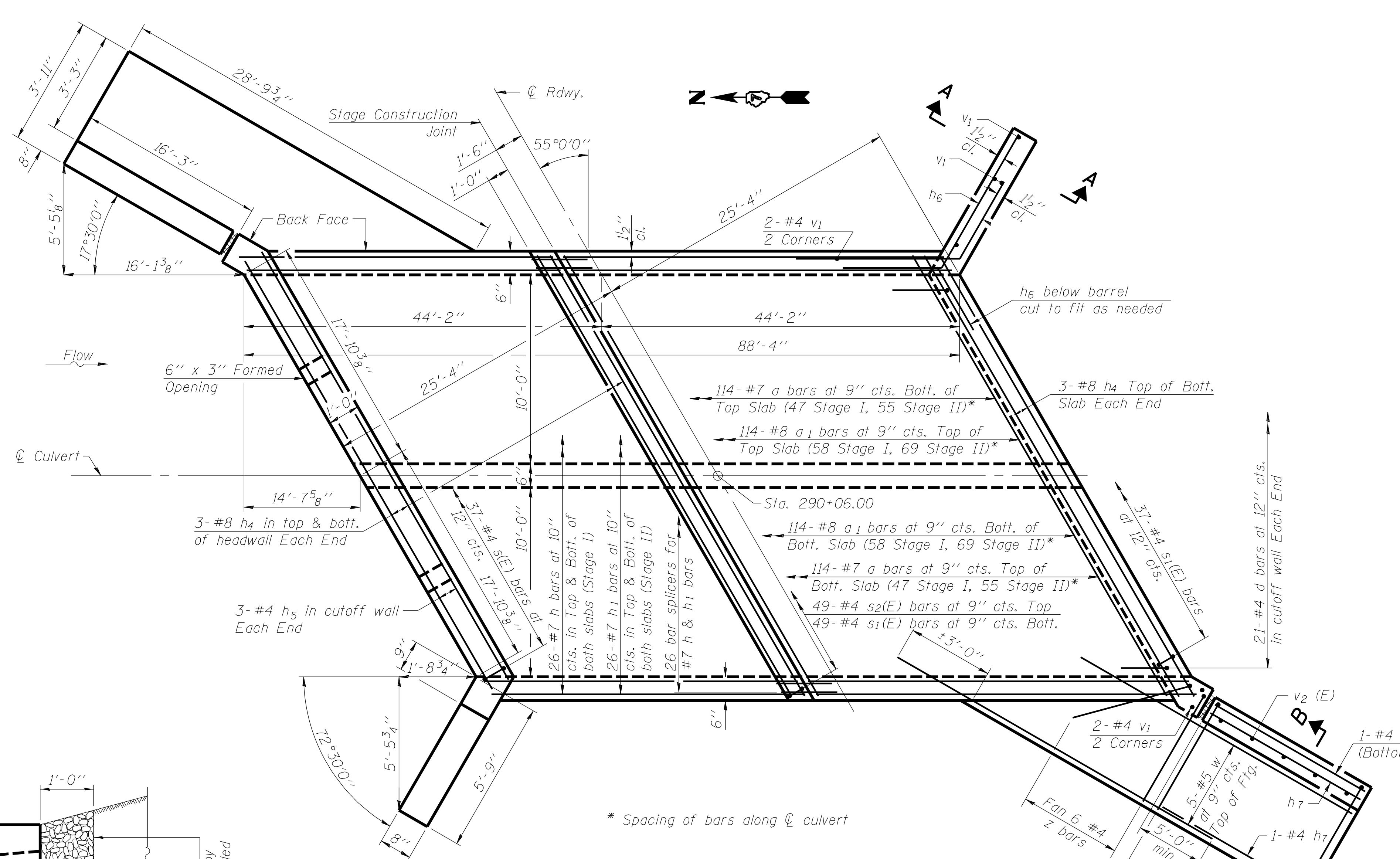
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY SHORING DETAILS
 STRUCTURE NO. 058-2012

SHEET NO. 4 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7464	(126BR)B	MACON	44	33
CONTRACT NO. 74156				
ILLINOIS FED. AID PROJECT				

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 northwest and southeast wingwalls.



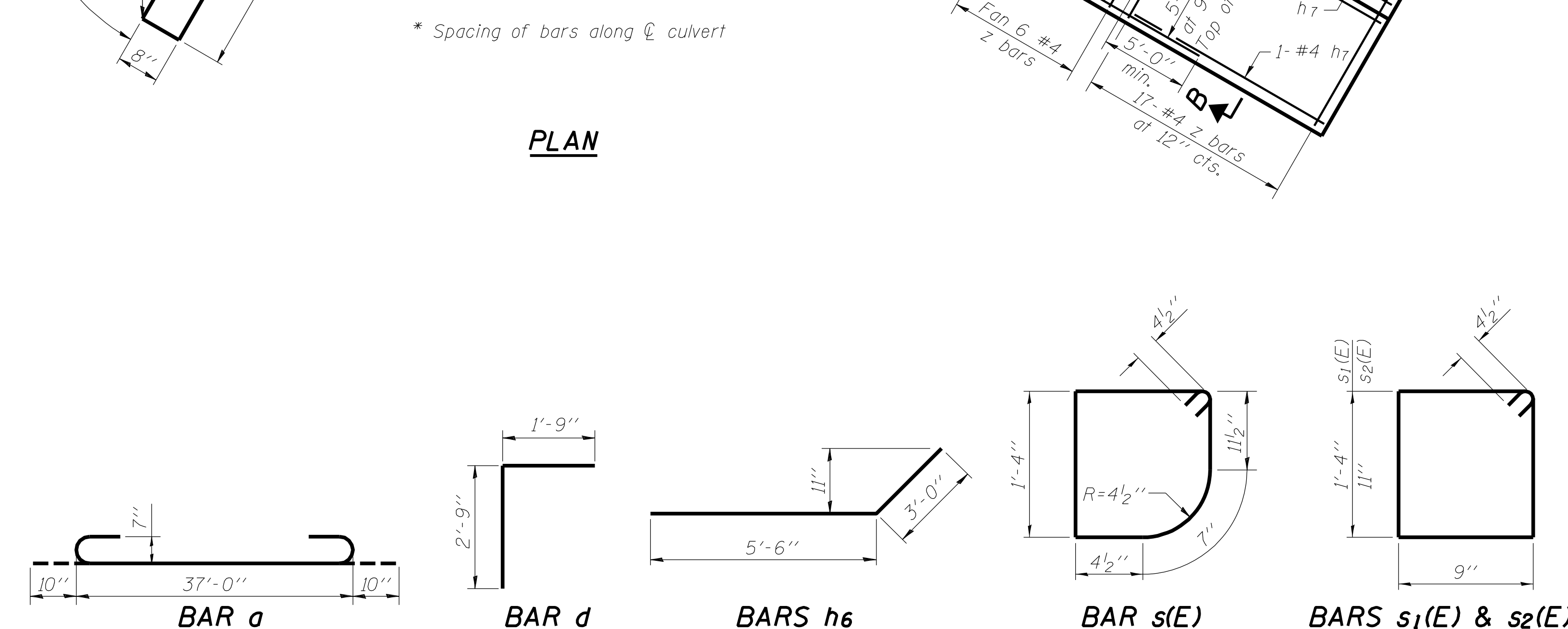
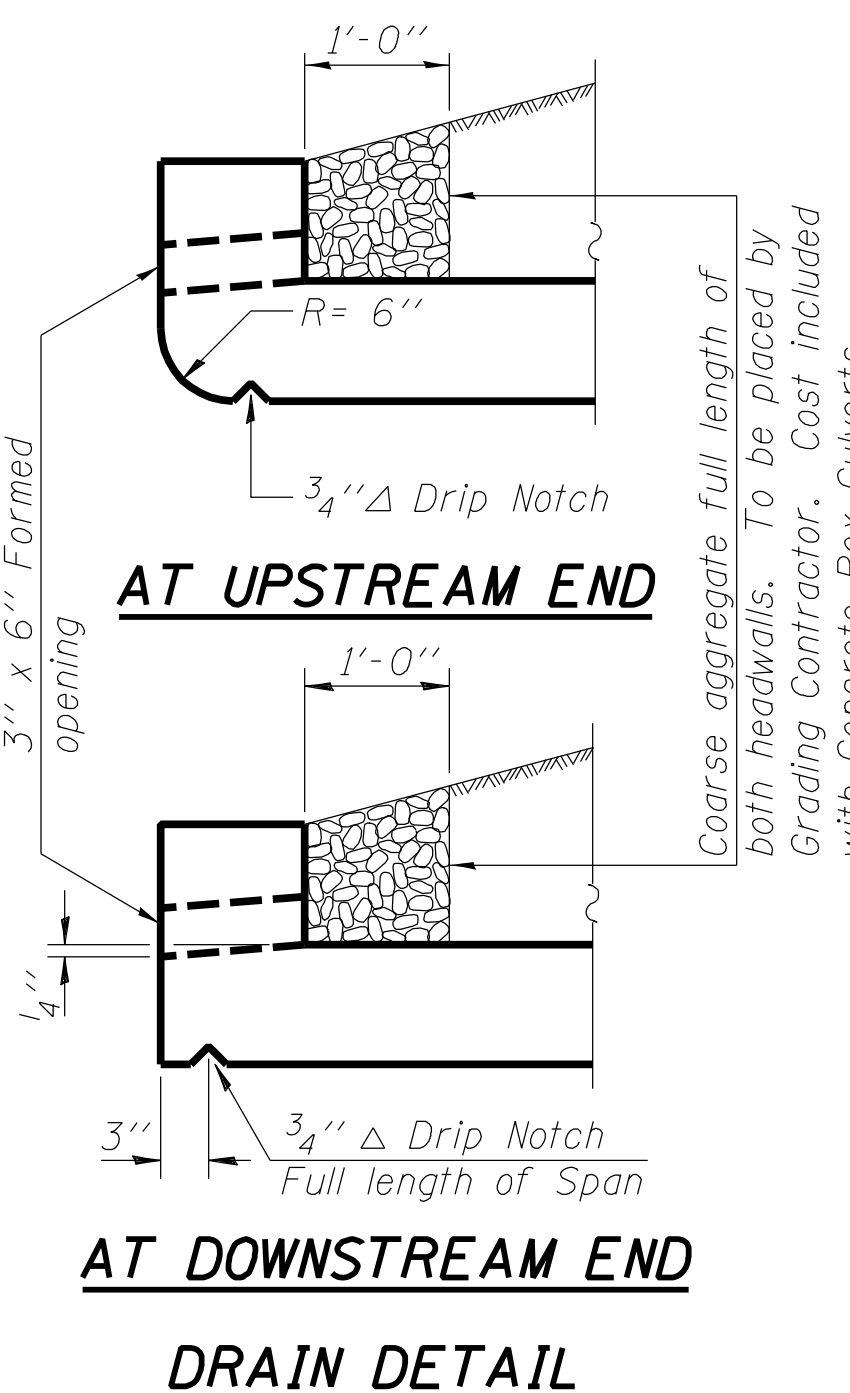
PHOEBE NESTING SITE DETAILS (Downstream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	228	#7	38'-8"	
a1	228	#8	37'-0"	
d	42	#4	4'-6"	
h	104	#7	41'-3"	
h1	104	#7	46'-6"	
h2	30	#5	22'-2"	
h3	30	#5	24'-9"	
h4	18	#8	36'-2"	
h5	6	#4	37'-0"	
h6	30	#4	8'-6"	
h7	20	#4	16'-0"	
s(E)	37	#4	4'-9"	
s1(E)	86	#4	4'-11"	
s2(E)	49	#4	4'-1"	
v	238	#4	5'-6"	
v1	12	#4	8'-4"	
v2(E)	17	#4	14'-5"	
v3	89	#5	5'-6"	
w	10	#5	20'-7"	
z	46	#4	6'-4"	
Concrete Box Culverts			Cu. Yd.	168.9
Reinforcement Bars, Epoxy Coated			Pound	700
Reinforcement Bars			Pound	65,760

Notes:
For sections A-A and B-B see sheet 6 of 8.

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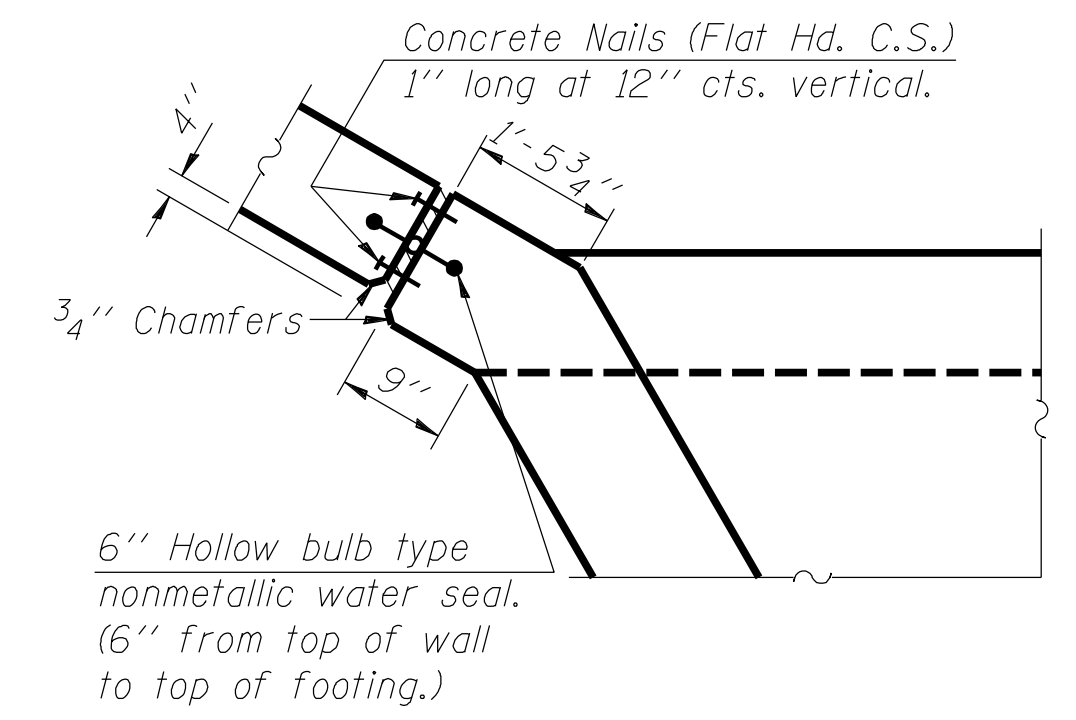
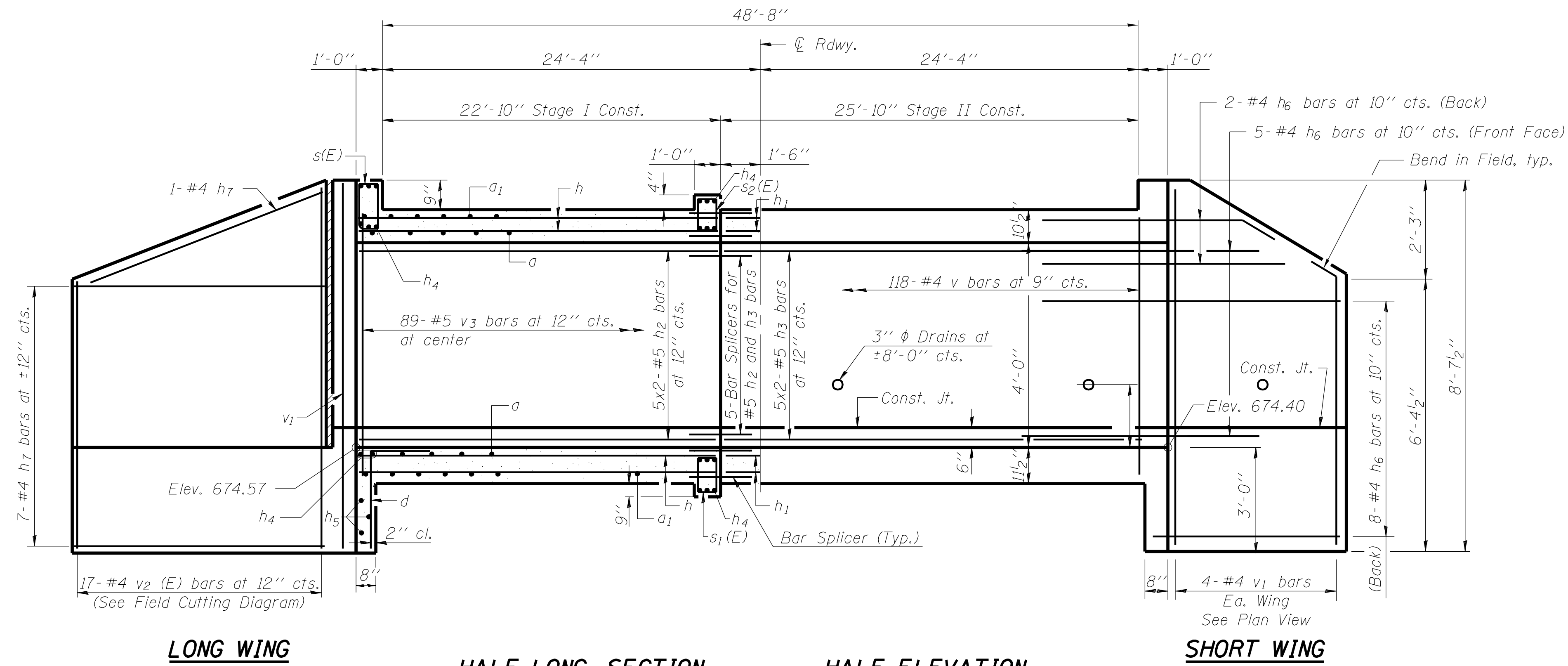
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLAB DETAILS
STRUCTURE NO. 058-2012

F.A.U. RTE. 7464	SECTION (126BR)B	COUNTY MACON	TOTAL SHEETS 44	SHEET NO. 34
CONTRACT NO. 74156				

ILLINOIS FED. AID PROJECT



CORNER DETAIL
At Long Wing

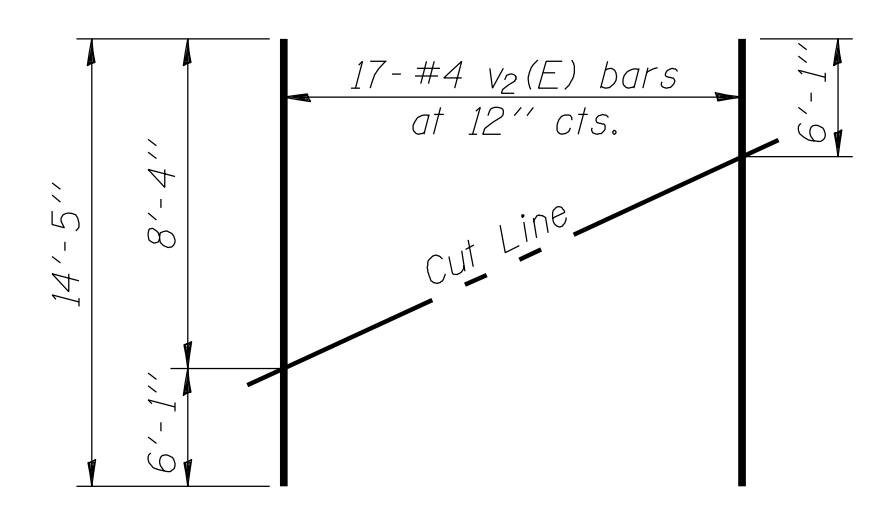
BAR LAPS
#4 - 2'-5"
#5 - 3'-0"

LONG WING

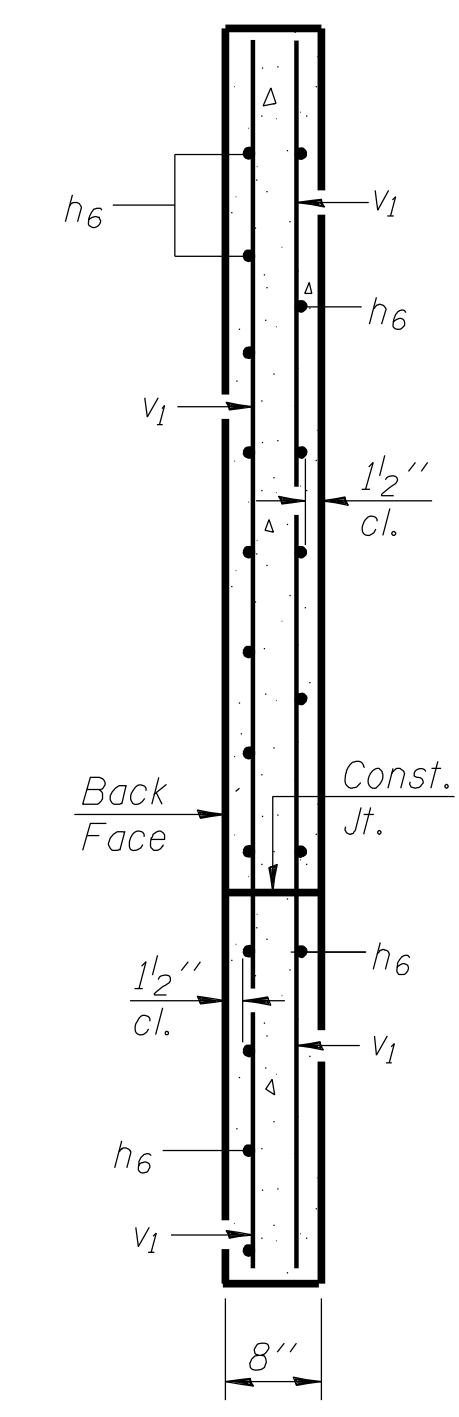
HALF LONG SECTION
Showing bars in Center Wall
Dimensions are at Right Angles to ϕ Roadway

HALF ELEVATION
Showing bars in Outside Wall

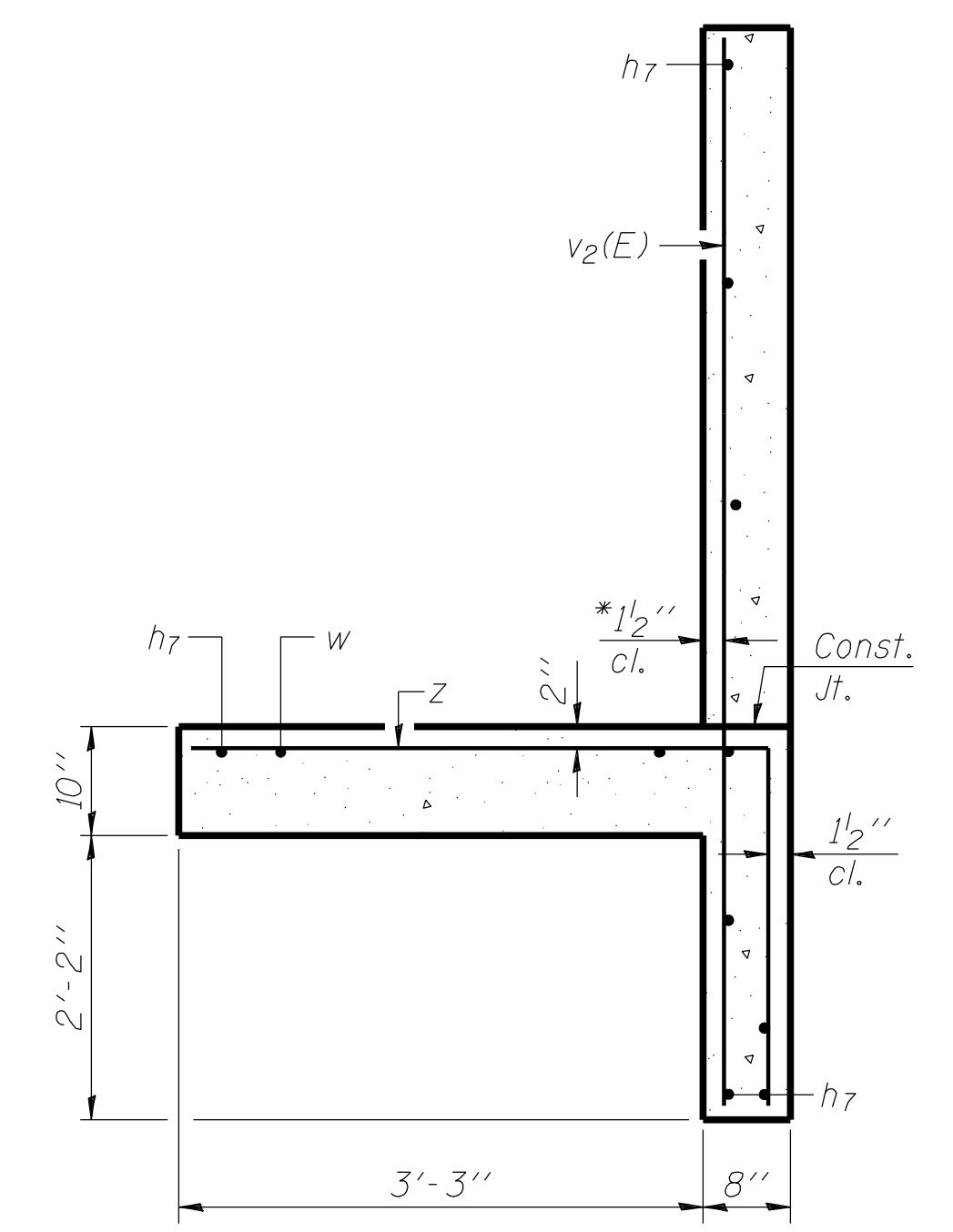
SHORT WING



FIELD CUTTING DIAGRAM
Order $v_2(E)$ full length. Cut as shown and use remainder of bars in opposite wall.



SECTION A-A



SECTION B-B

* $v_2(E)$ bars shall not be placed more than $1\frac{1}{2}$ " cl. from back face of wingwalls. Max. Soil Pressure under footing = 2091 psf.

Notes:
Bars indicated thus 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.

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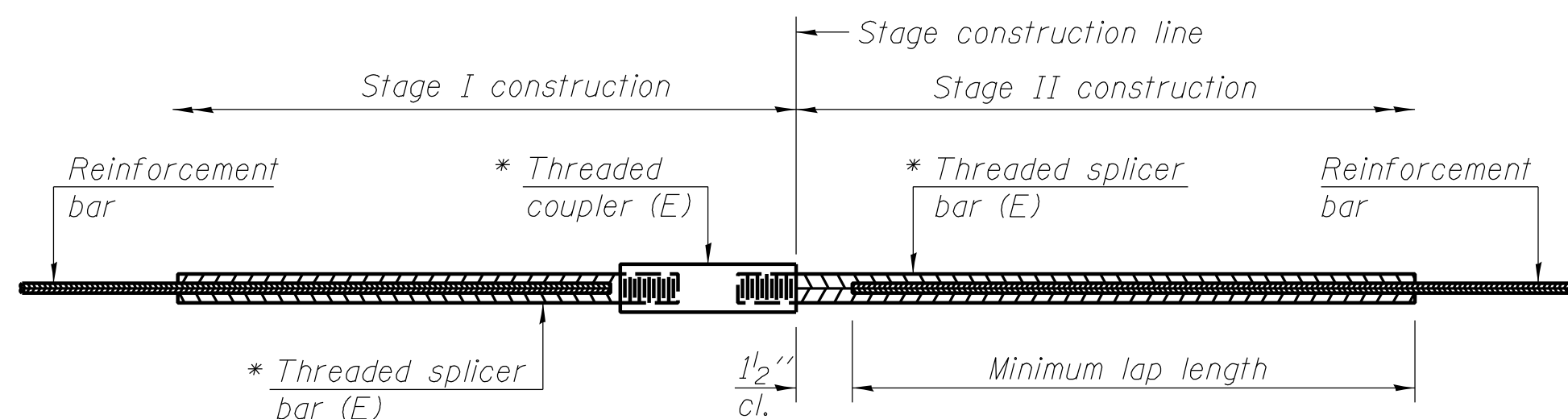
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 058-2012

SHEET NO. 6 OF 8 SHEETS

F.A.U. RTE. 7464	SECTION (126BR1B)	COUNTY MACON	TOTAL SHEETS 44	SHEET NO. 35
CONTRACT NO. 74156				ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

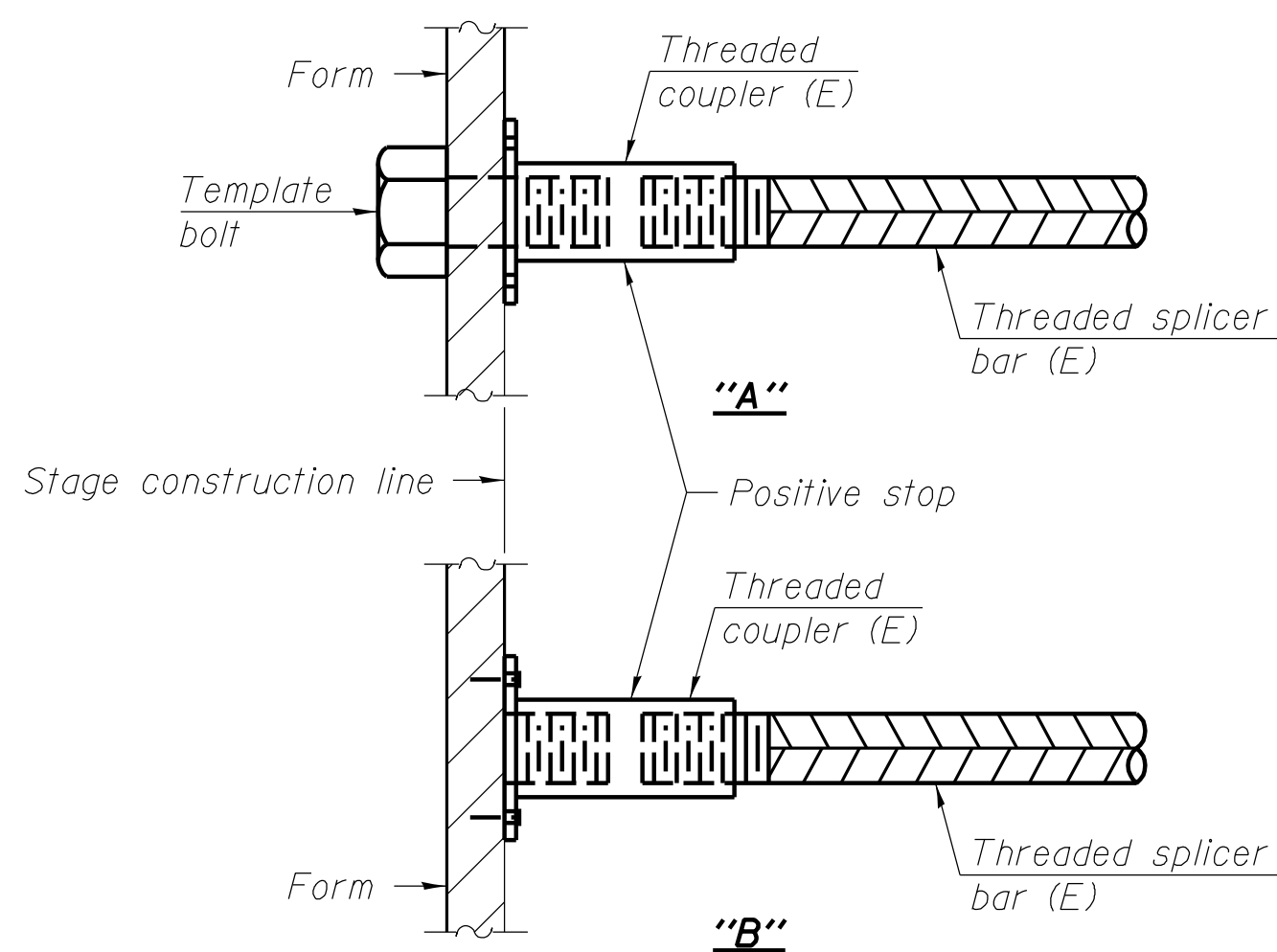
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- 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, Top bar lap, Class B

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

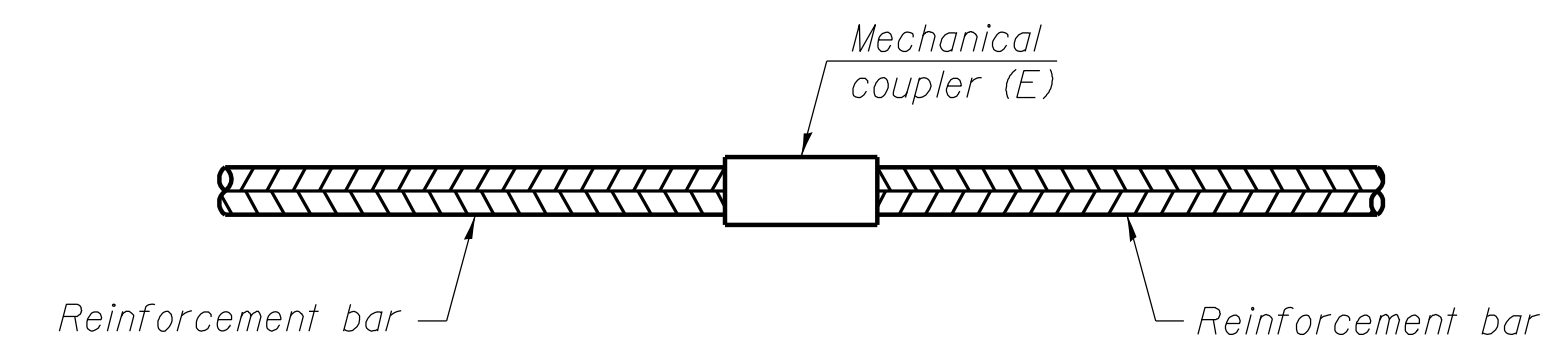
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Culvert Slab	#7	104	2
Center Culvert Wall	#5	5	2
Outside Culvert Wall	#4	10	2



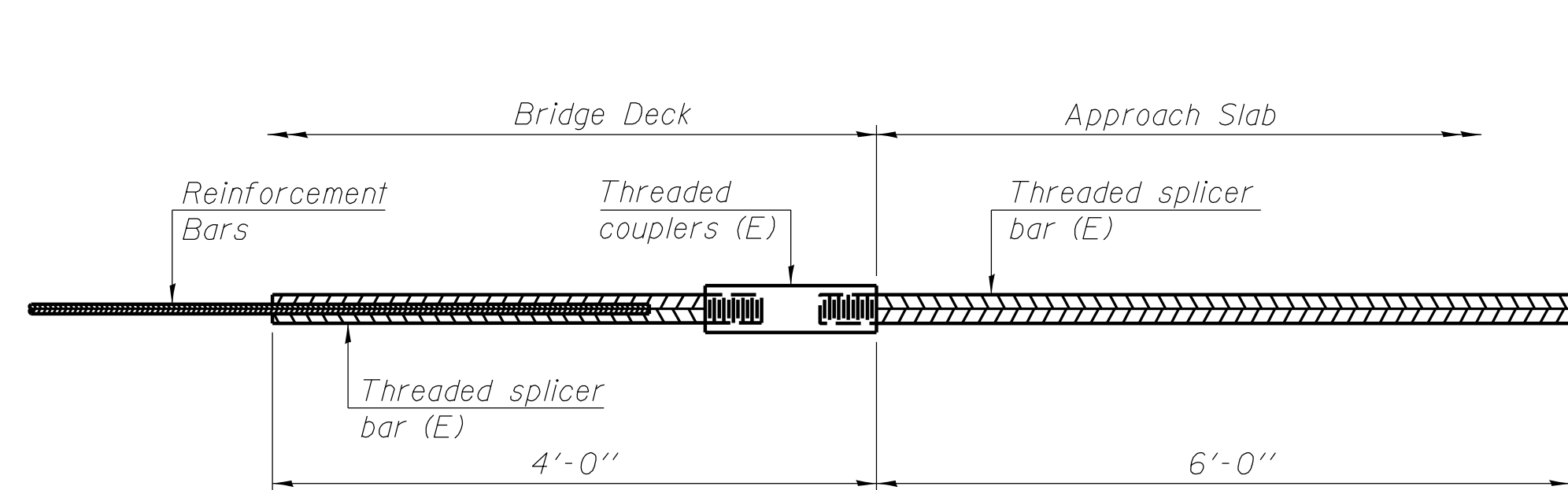
INSTALLATION AND SETTING METHODS

"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.



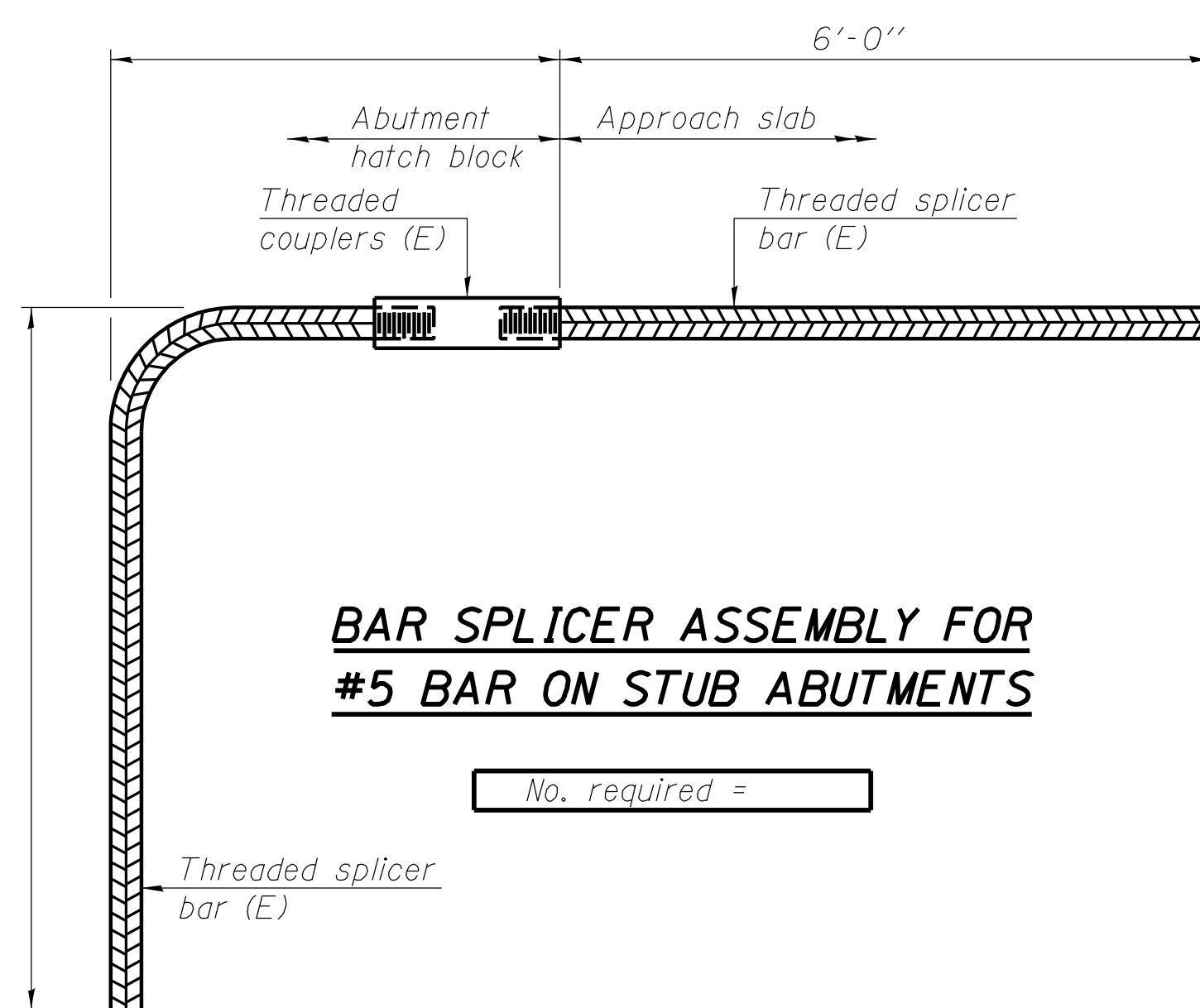
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. 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.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 058-2012

SHEET NO. 7 OF 8 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7464	(126BR)B	MACON	44	36
CONTRACT NO. 74156				

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 10/19/10

ROUTE FAP 712 (IL 48) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer

SECTION (126BR)B LOCATION SE 1/4 - Sec 17, NE 1/4 - Sec 20, SEC., TWP. 17 N, RNG. 3 E, 3 PM

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

Table with columns for Depth (ft), (ft) (ft) (ft) (%), and Soil Description. Includes data for 5" asphalt on 8" concrete pavement, Stiff damp dark gray to gray/red CLAY, Soft damp gray marbled red SILTY LOAM, Very stiff damp brown CLAY, Hard damp gray CLAY LOAM TILL, and Gray fine grained SAND.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 10/19/10

ROUTE FAP 712 (IL 48) DESCRIPTION Un-Named Stream LOGGED BY E. Sandschafer

SECTION (126BR)B LOCATION SE 1/4 - Sec 17, NE 1/4 - Sec 20, SEC., TWP. 17 N, RNG. 3 E, 3 PM

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

Table with columns for Depth (ft), (ft) (ft) (ft) (%), and Soil Description. Includes data for 5 1/2" asphalt on 7 3/4" concrete pavement, Stiff damp dark gray to gray/red CLAY, Soft to medium damp gray marbled rust SILTY CLAY, Stiff damp bluish gray CLAY LOAM, Brown fine grained SAND, Very stiff damp gray CLAY LOAM TILL, Brown fine grained SAND, and Hard moist gray CLAY LOAM TILL.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NO. 058-2012

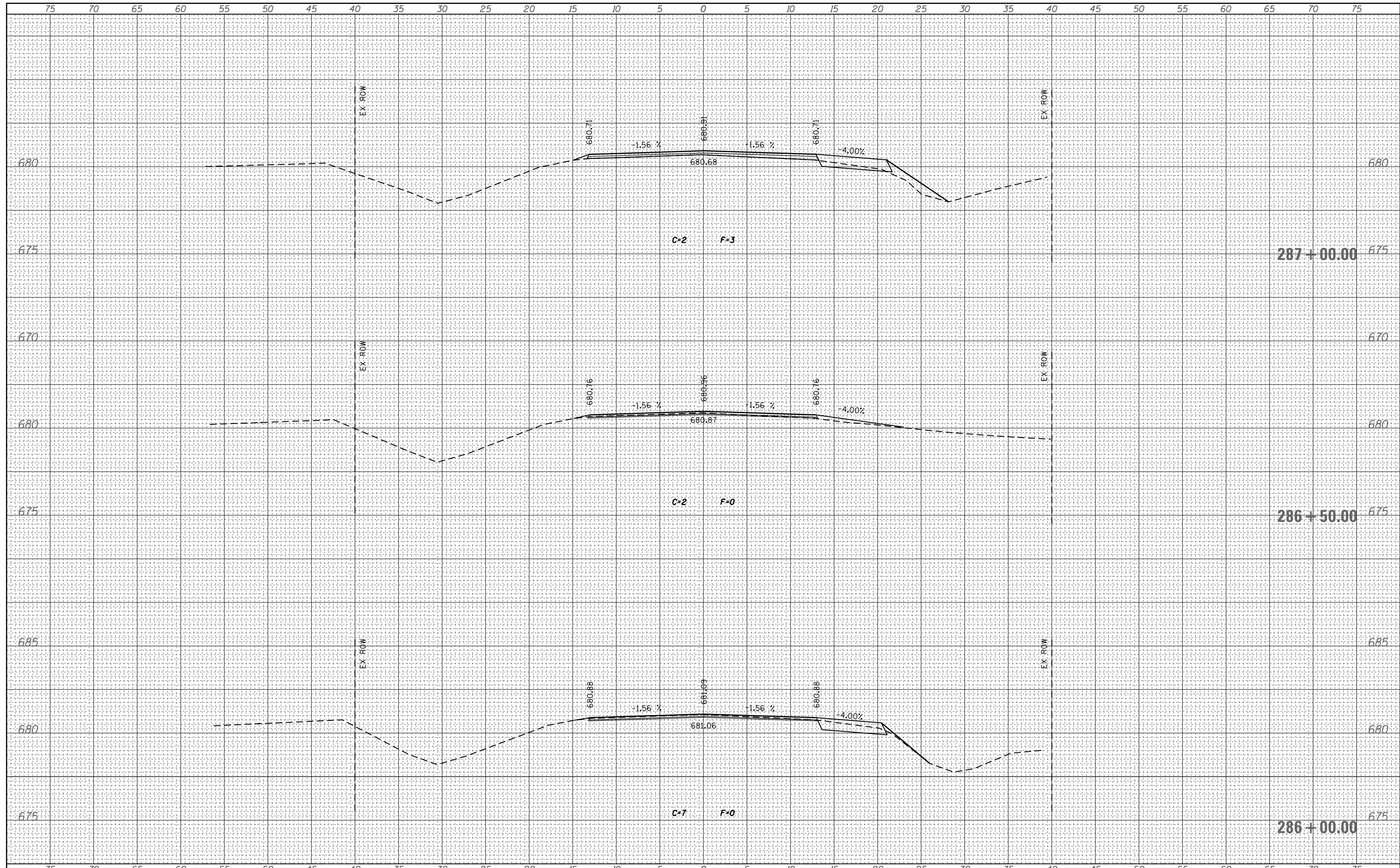
SHEET NO. 8 OF 8 SHEETS

Table with columns: F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. 74156

ILLINOIS FED. AID PROJECT

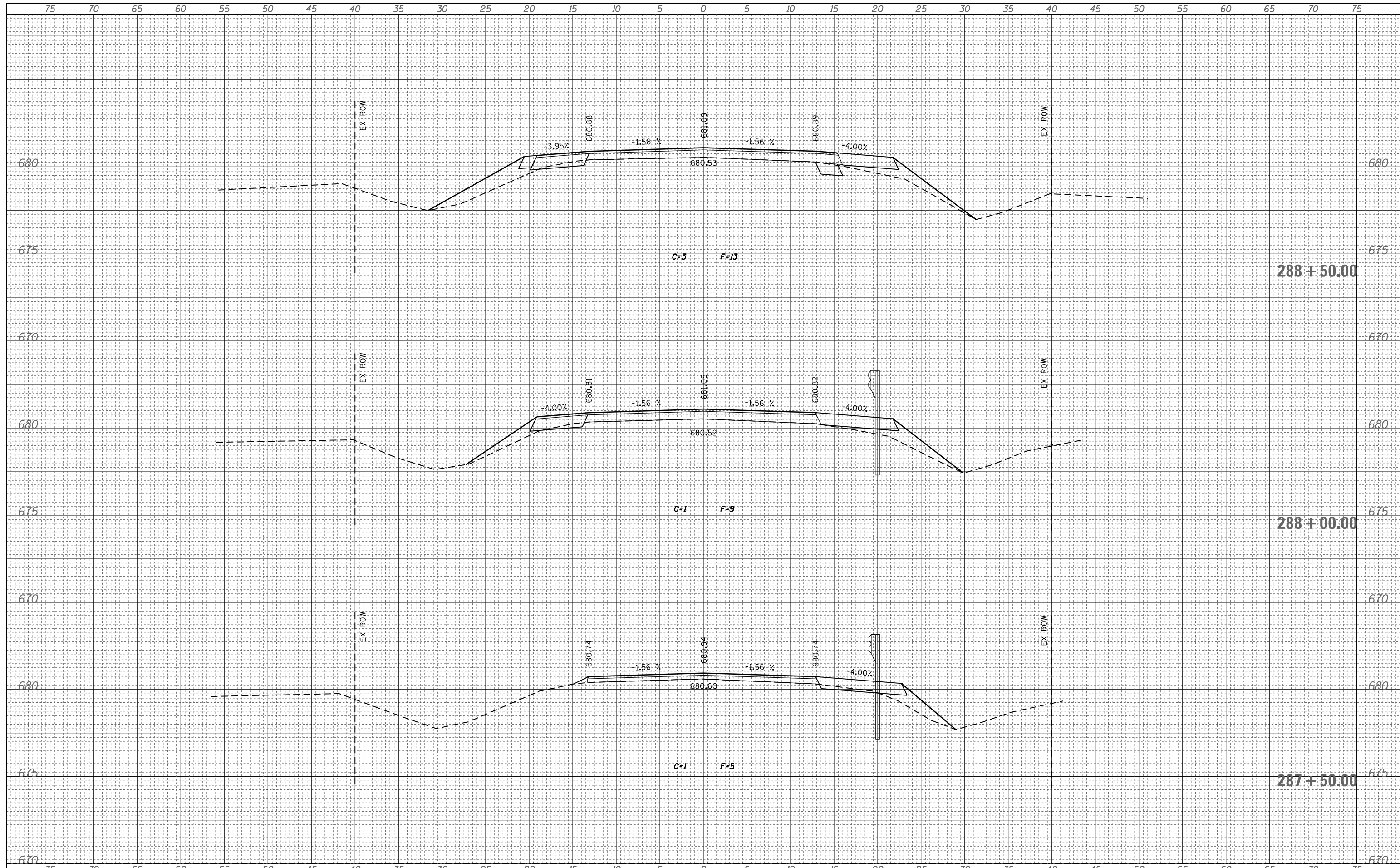
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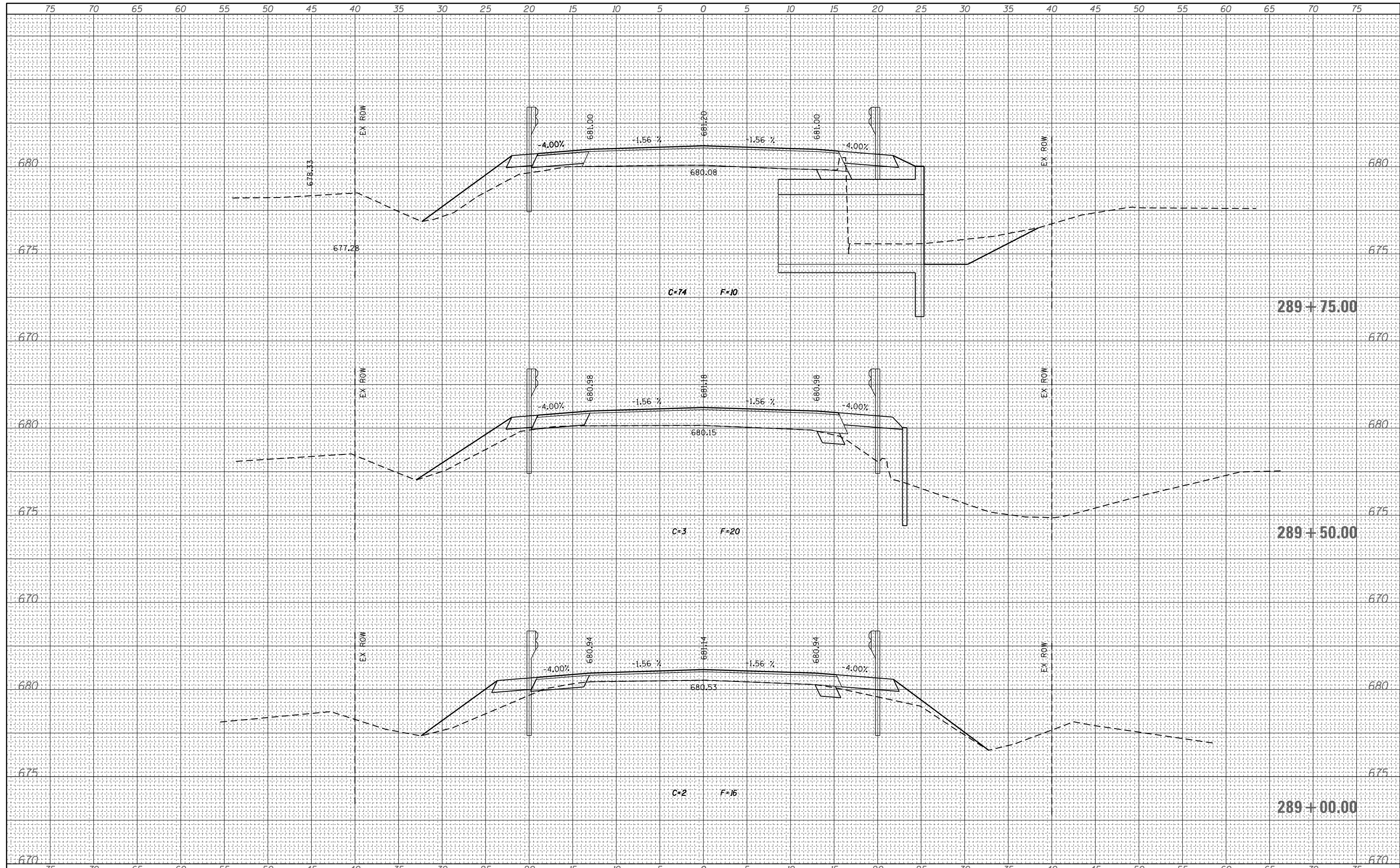
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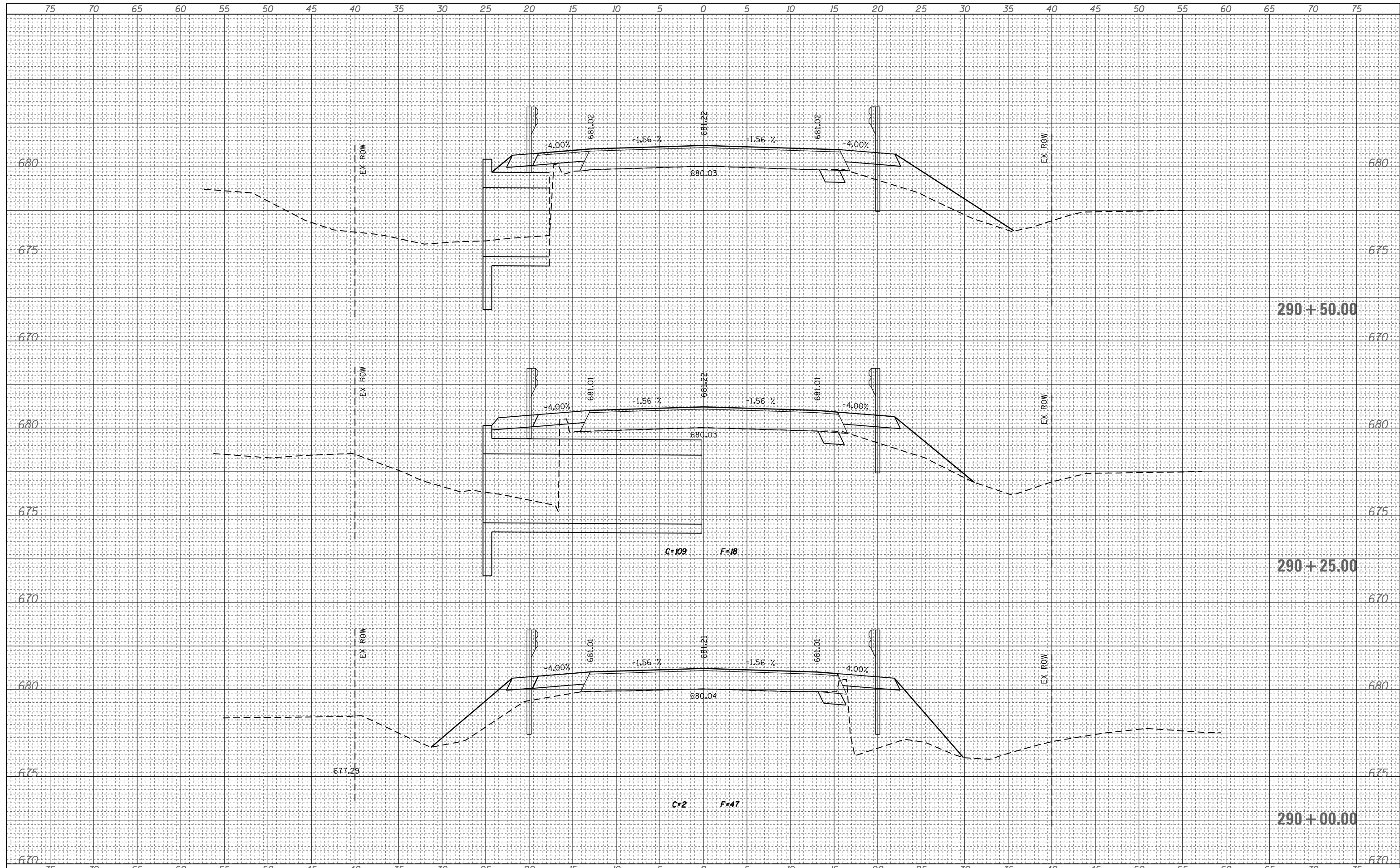
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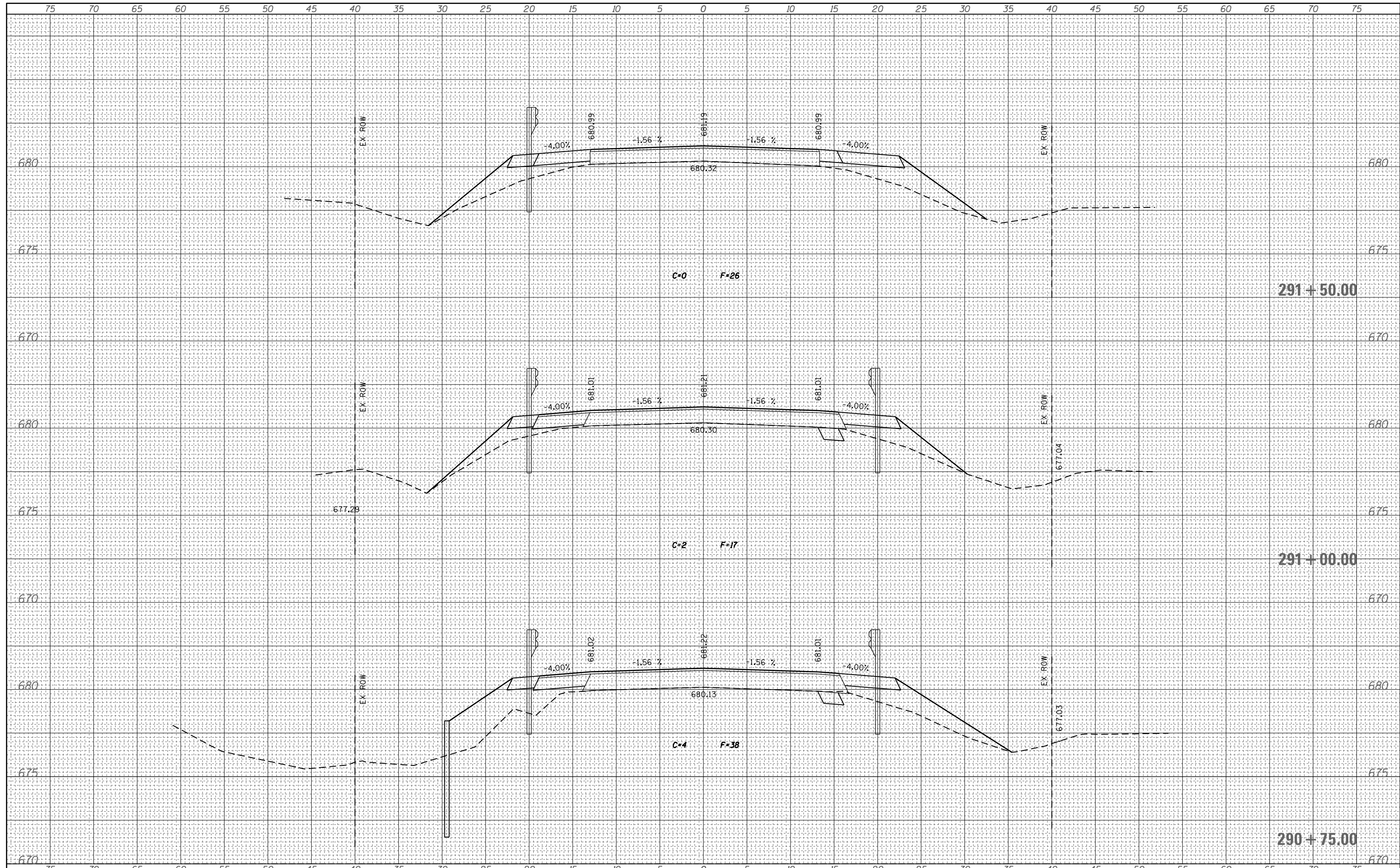
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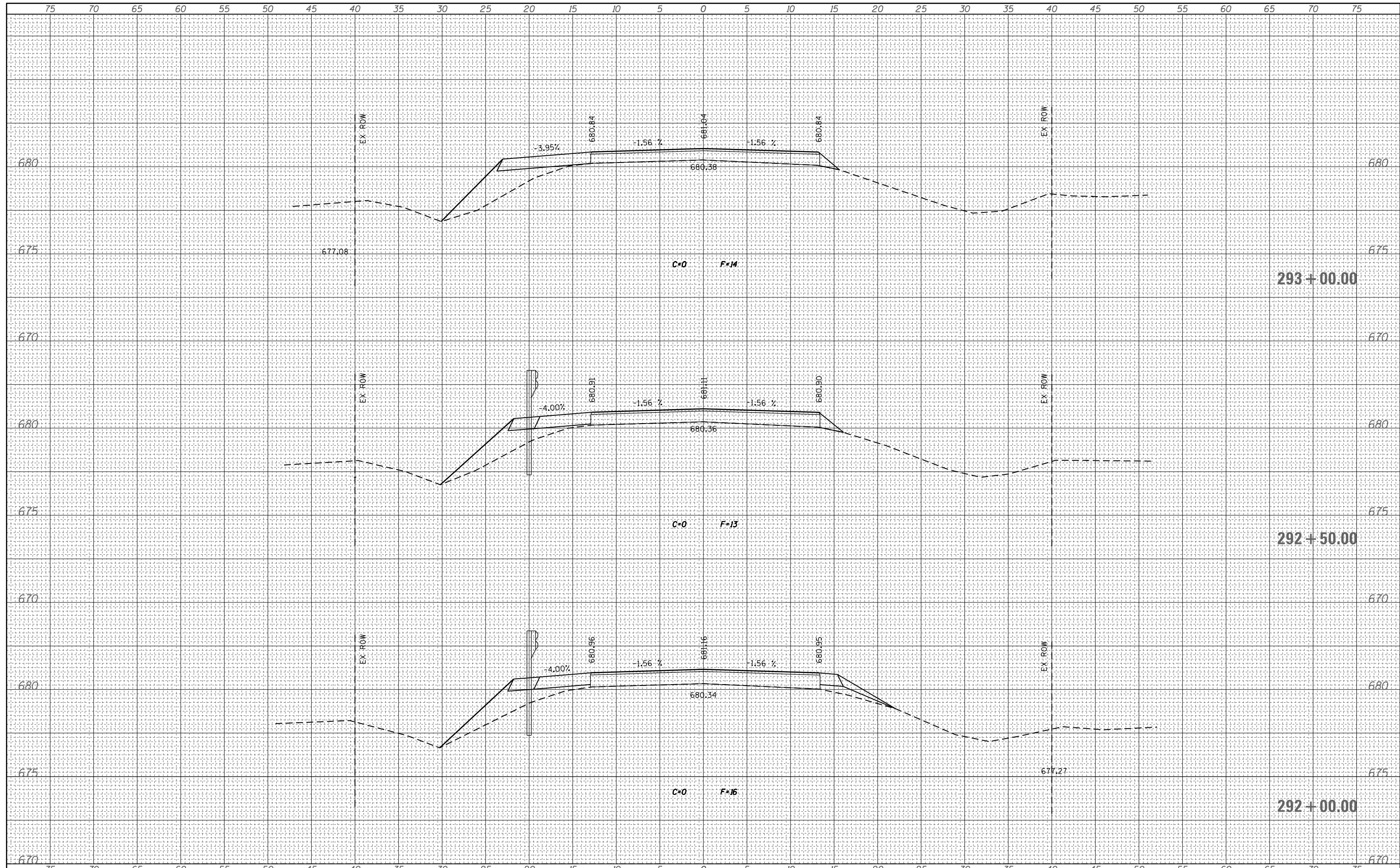
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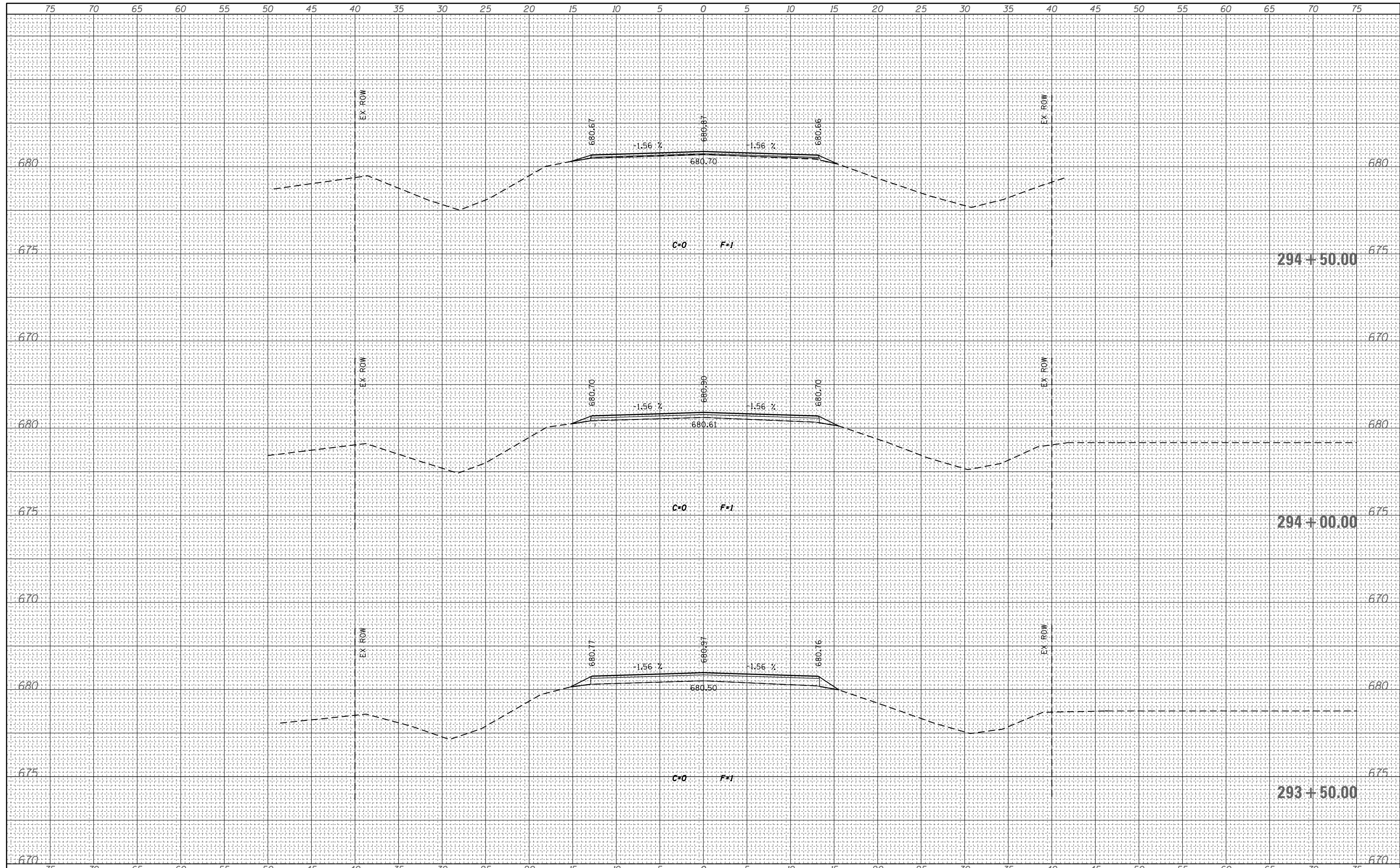
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