

06-12-2026 LETTING ITEM 179

FOR INDEX OF SHEETS, SEE SHEET NO. 3
 FOR SN 091-2027, SEE SHEET NO. 9 - 49
 FOR SN 091-2030, SEE SHEET NO. 50 - 78
 FOR SN 091-7094, SEE SHEET NO. 79 - 95
 FOR SN 091-7095, SEE SHEET NO. 96 - 112

TRAFFIC DATA

SN 091-2005 (E) / SN 091-2027 (P)
 IL 127 (MAJOR COLLECTOR)
 1400 ADT (2021)
 1340 PV, 40 SU, 20 MU
 1800 ADT (2046)
 1725 PV, 50 SU, 25 MU

SN 091-2012 (E) / SN 091-2030 (P)
 IL 127 / IL 146 (OTHER PRINCIPAL ARTERIAL)
 5500 ADT (2021)
 4700 PV, 300 SU, 500 MU
 7050 ADT (2046)
 6025 PV, 385 SU, 640 MU

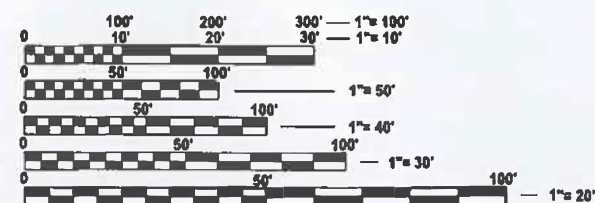
SN 091-7022 (E) / SN 091-7094 (P)
 OLD US 51 (MAJOR COLLECTOR)
 1250 ADT (2020)
 1130 PV, 70 SU, 50 MU
 1620 ADT (2046)
 1465 PV, 90 SU, 65 MU

SN 091-7027 (E) / SN 091-7095 (P)
 US 51 (OTHER PRINCIPAL ARTERIAL)
 3500 ADT (2021)
 3150 PV, 190 SU, 160 MU
 4490 ADT (2046)
 4040 PV, 245 SU, 205 MU

TOWNSHIP

DONGOLA
 BALCOM
 ANNA

SPEED LIMIT = 55 MPH



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: EHREN KIRBY, PE
 PROJECT DESIGNER: KUHN & TRELLO CONSULTING ENGINEERS, LLC

CONTRACT NO. 78A13

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PROPOSED
 HIGHWAY PLANS**

VARIOUS ROUTES
 SECTION D9 CULVERT REPLACEMENT FY26-1
 PROJECT BR-NHPP-STP-PRSY(558)
 BOX CULVERT REPLACEMENTS
 UNION COUNTY

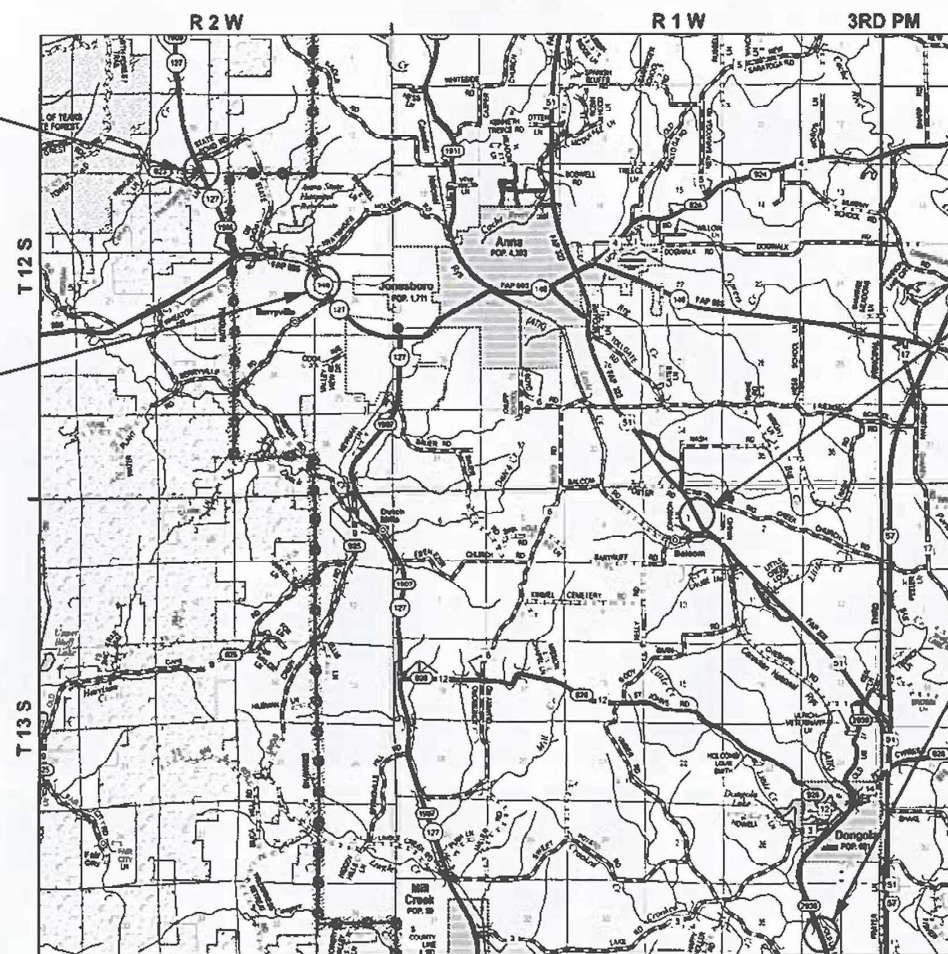
C-99-063-23

IL 127
 SN 091-2005 (E)
 SN 091-2027 (P)
 ☒ STRUCTURE
 STA. 698+91.06

IL 146
 SN 091-2012 (E)
 SN 091-2030 (P)
 ☒ STRUCTURE
 STA. 117+49.00

US 51
 SN 091-7027 (E)
 SN 091-7095 (P)
 ☒ STRUCTURE
 STA. 205+41.00

OLD US 51
 SN 091-7022 (E)
 SN 091-7094 (P)
 ☒ STRUCTURE
 STA. 574.42.50



LOCATION MAP
 (NOT TO SCALE)

GROSS LENGTH = 965.00 FT. = 0.183 MILE
 NET LENGTH = 965.00 FT. = 0.183 MILE

DATE: MARCH 2 2026

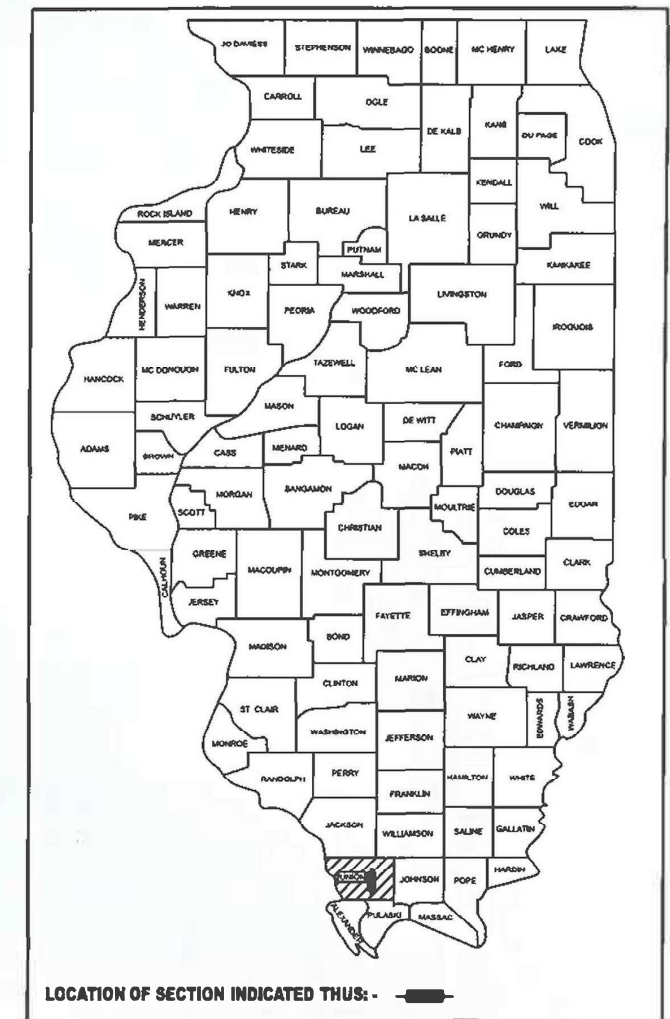
EXPIRES: NOVEMBER 30 2027



LEVIN L. KUHN
 062-056868
 LICENSED
 PROFESSIONAL
 ENGINEER
 OF
 ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	ILLINOIS	114	7

D-99-046-23



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13 20 26
Lora S. Remans REGIONAL ENGINEER

May 8 20 26
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 26
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS

MODEL: Signatus Sheet
 FILE NAME: I:\2023\2304\DOT D0 - PTB 2023\048 - PE L1\BICAD\DATA\CAD\Sheets\DS78A13-sh1.dgn

Prepared By: Susan Poe
 DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Ho
 DISTRICT LAND ACQUISITION ENGINEER

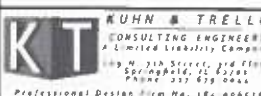
Examined By: Carla
 DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: [Signature]
 DISTRICT OPERATIONS ENGINEER

Examined By: _____
 DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Berwith
 DISTRICT CONSTRUCTION ENGINEER

Examined By: Aan Harg
 DISTRICT MATERIALS ENGINEER



USER NAME	msutheard	
DESIGNED	JRS	REVISED -
DRAWN	MDS	REVISED -
CHECKED	JRS	REVISED -
DATE	1/25/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	2
CONTRACT NO. 78A13				

*** (30G,104A)(B-1),(13,14A)(CR-1)

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

EDGE LINE PAVEMENT MARKING SHALL BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHALL BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

COMMITMENTS

- TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.
- SN 091-2005 (E) 091-2027 (P)

THE CONTRACTOR MUST PREVENT ALL BIRDS FROM NESTING ON THE CULVERT 091-2005 BY KNOCKING DOWN OR SCRAPING OFF ANY NESTS BEFORE APRIL 1ST FOLLOWED BY ACTIVELY DETERRING THE BIRDS FROM NESTING UNTIL AUGUST 16. CONTRACTORS WILL BE RESPONSIBLE TO ENSURE NESTS ARE NOT ESTABLISHED AND MUST DETER ANY NEST FORMATION BY POWER WASHING THE AREA WHERE THE BIRDS ARE TRYING TO NEST EVERY 2-3 DAYS. ONLY NESTS WITH EGGS CAN BE REMOVED. IN THE CASE A NEST CONTAINS CHICKS THE CULVERT DEMOLITION MUST BE HALTED UNTIL AUGUST 16.

OR

WORK ON CULVERT 091-2005 SHALL REMAIN OUTSIDE OF THE APRIL 1-AUGUST15 MIGRATORY BIRD ACTIVE SEASON

HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
606301-04	PC CONCRETE ISLANDS AND MEDIANS
635001-02	DELINEATORS
643001-03	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES
4 - 8	SUMMARY OF QUANTITIES
<u>IL 12 / SN 091-2005 (E) / SN 091-2027 (P)</u>	
9 - 12	TYPICAL ROADWAY SECTIONS
13 - 14	SCHEDULE OF QUANTITIES
15	ALIGNMENT, TIES AND BENCHMARKS
16	PLAN AND PROFILE
17	REMOVAL PLAN
18	ISLAND GEOMETRICS
19	PAVEMENT MARKING PLAN
20	TRAFFIC CONTROL PLANS - PRE-STAGE I
21	TRAFFIC CONTROL PLANS - STAGE I
22	TRAFFIC CONTROL PLANS - STAGE II
23 - 24	EROSION CONTROL PLANS
25	GRANULAR CULVERT BACKFILL DETAILS
26 - 35	STRUCTURE PLANS
36 - 49	CROSS SECTIONS
<u>IL 146 SN 091-2012 (E) / SN 091-2030 (P)</u>	
50 - 51	TYPICAL ROADWAY SECTIONS
52 - 53	SCHEDULE OF QUANTITIES
54	ALIGNMENT, TIES AND BENCHMARKS
55	PLAN AND PROFILE
56	REMOVAL PLAN
57 - 58	PAVEMENT MARKING PLANS
59	TRAFFIC CONTROL PLANS - TYPICAL SECTIONS
60	TRAFFIC CONTROL PLANS - STAGE I
61	TRAFFIC CONTROL PLANS - STAGE II
62	RIGHT-OF-WAY PLAN
63	EROSION CONTROL PLAN
64	GRANULAR CULVERT BACKFILL DETAILS
65 - 72	STRUCTURE PLANS
73 - 78	CROSS SECTIONS
<u>OLD US 51 SN 091-7022 (E) / SN 091-7094 (P)</u>	
79 - 80	TYPICAL ROADWAY SECTIONS
81 - 82	SCHEDULE OF QUANTITIES
83	ALIGNMENT, TIES AND BENCHMARKS
84	PLAN AND PROFILE
85 - 86	DETOUR PLANS
87	REMOVAL PLAN
88	PAVEMENT MARKING PLAN
89	EROSION CONTROL PLAN
90	GRANULAR CULVERT BACKFILL DETAILS
91 - 93	STRUCTURE PLANS
94 - 95	CROSS SECTIONS
<u>US 51 SN 091-7027 (E) / SN 091-7095 (P)</u>	
96 - 97	TYPICAL ROADWAY SECTIONS
98 - 99	SCHEDULE OF QUANTITIES
100	ALIGNMENT, TIES AND BENCHMARKS
101	PLAN AND PROFILE
102 - 103	DETOUR PLANS
104	REMOVAL PLAN
105	PAVEMENT MARKING PLAN
106	EROSION CONTROL PLAN
107	GRANULAR CULVERT BACKFILL DETAILS
108 - 110	STRUCTURE PLANS
111 - 112	CROSS SECTIONS
113 - 114	DISTRICT 9 DETAILS

MODEL: GenNotes Sheet
FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BBI\CADD\DATA\CAD\Sheets\I\978A13-sht-Gennote.dgn



USER NAME = Ismaily	DESIGNED - JRS	REVISED -
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PLOT DATE = 3/13/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, COMMITMENTS
& PROJECT SPECIFIC NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	3
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COUNTY:	UNION	UNION	UNION	UNION
				ROUTE:	FAS 1909 (IL 127)	FAP 885 (IL 146)	FAS 2936 (OLD US 51)	FAP 322 (US 51)
				FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL
				BOX CULVERT	BOX CULVERT	BOX CULVERT	BOX CULVERT	
				0010	0010	0004	0004	
				SN 091-2027	SN 091-2030	SN 091-7094	SN 091-7095	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	26		26			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	153		153			
20200100	EARTH EXCAVATION	CU YD	933	577	281	28	47	
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	17.6	8.6	8	1		
20400800	FURNISHED EXCAVATION	CU YD	945	671	226	46	2	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1187	396	310	127	354	
25000200	SEEDING, CLASS 2	ACRE	0.59	0.27	0.26	0.04	0.02	
25000350	SEEDING, CLASS 7	ACRE	0.59	0.27	0.26	0.04	0.02	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	55	25	24	4	2	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	55	25	24	4	2	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	55	25	24	4	2	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.18	0.54	0.52	0.08	0.04	
25100115	MULCH, METHOD 2	ACRE	0.59	0.27	0.26	0.04	0.02	
25100630	EROSION CONTROL BLANKET	SQ YD	3007	1657	1118	151	81	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	118	54	52	8	4	
28000305	TEMPORARY DITCH CHECKS	FOOT	170	120	20	10	20	
28000400	PERIMETER EROSION BARRIER	FOOT	2211	1396	567	162	86	

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	CHECKED - JRS	REVISED -
PLOT DATE = 3/17/2026	DATE - 1/25/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	4
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COUNTY:	UNION	UNION	UNION	UNION
				ROUTE:	FAS 1909 (IL 127)	FAP 885 (IL 146)	FAS 2936 (OLD US 51)	FAP 322 (US 51)
				FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL
				BOX CULVERT	BOX CULVERT	BOX CULVERT	BOX CULVERT	
				0010	0010	0004	0004	
				SN 091-2027	SN 091-2030	SN 091-7094	SN 091-7095	
28000500	INLET AND PIPE PROTECTION	EACH	1		1			
28100107	STONE RIPRAP, CLASS A4	SQ YD	23				23	
28100109	STONE RIPRAP, CLASS A5	SQ YD	494	294	200			
28200200	FILTER FABRIC	SQ YD	517	294	200		23	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	692	350	134	88	120	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	692	350	134	88	120	
44000100	PAVEMENT REMOVAL	SQ YD	737	395	134	88	120	
44004250	PAVED SHOULDER REMOVAL	SQ YD	391		339	12	40	
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	338		298		40	
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	72			32	40	
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	751	328	423			
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1				
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1			
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1			1		
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1				1	
50105220	PIPE CULVERT REMOVAL	FOOT	34		34			
50200100	STRUCTURE EXCAVATION	CU YD	841	240	170	66	365	

REV - MS



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PLOT DATE = 3/17/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	5
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

MODEL - Sheet
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COUNTY:	UNION	UNION	UNION	UNION
				ROUTE:	FAS 1909 (IL 127)	FAP 885 (IL 146)	FAS 2936 (OLD US 51)	FAP 322 (US 51)
				FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL
				BOX CULVERT 0010 SN 091-2027	BOX CULVERT 0010 SN 091-2030	BOX CULVERT 0004 SN 091-7094	BOX CULVERT 0004 SN 091-7095	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	348		37	219	39	53
50800105	REINFORCEMENT BARS	POUND	48450		48450			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	30730		770	29960		
50800515	BAR SPLICERS	EACH	254		134	120		
51500100	NAME PLATES	EACH	2		1	1		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1130		702	428		
52200600	GEOTEXTILE RETAINING WALL	SQ FT	74		74			
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2				2	
54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	2					2
54003000	CONCRETE BOX CULVERTS	CU YD	427.8		241.1	186.7		
54010605	PRECAST CONCRETE BOX CULVERTS 6' X 5'	FOOT	90				30	60
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	36			36		
54262715	METAL FLARED END SECTIONS 15"	EACH	2			2		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	300			192	41	67
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	14.5		14.5			
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	32.5		32.5			
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	101		101			



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	6
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

MODEL - Sheet
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COUNTY:	UNION	UNION	UNION	UNION
				ROUTE:	FAS 1909 (IL 127)	FAP 885 (IL 146)	FAS 2936 (OLD US 51)	FAP 322 (US 51)
				FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL
				BOX CULVERT	BOX CULVERT	BOX CULVERT	BOX CULVERT	
				0010	0010	0004	0004	
				SN 091-2027	SN 091-2030	SN 091-7094	SN 091-7095	
63200310	GUARDRAIL REMOVAL	FOOT	536		536			
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	12		12			
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.25	0.25	0.25	0.25	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	10	10			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1			
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	128	28	28	36	36	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	687.5	387.5	300			
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	117	69	48			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	250	237.5			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1				
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	4	2			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1				
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	4	2			



USER NAME = msutheard	DESIGNED - JRS	REVISED -
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PLOT DATE = 3/17/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 4	OF 5 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	7
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

MODEL: Sheet
 FILE NAME: I:\2023\23044\DOT D9 - PTB 207-948 - PE-H\B\CAD\Drawings\DOT D9\DOT D9-PTB 207-948.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	COUNTY:	UNION	UNION	UNION	UNION
				ROUTE:	FAS 1909 (IL 127)	FAP 885 (IL 146)	FAS 2936 (OLD US 51)	FAP 322 (US 51)
				FUNDING:	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE	80% FED / 20% STATE
				LOCATION:	RURAL	RURAL	RURAL	RURAL
				BOX CULVERT	BOX CULVERT	BOX CULVERT	BOX CULVERT	
				0010	0010	0004	0004	
				SN 091-2027	SN 091-2030	SN 091-7094	SN 091-7095	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4841		2311	2210	100	220
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	40		40			
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1534		796	738		
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	2		1	1		
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	337		337			
X4402805	ISLAND REMOVAL	SQ FT	76		76			
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	300			192	41	67
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1				0.5	0.5
X7200203	DETOUR SIGNING	L SUM	1				0.5	0.5
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		0.25	0.25	0.25	0.25
* Z0054517	ROCK FILL - FOUNDATION	TON	420		60	220	60	80
∅ Z0076600	TRAINEES	HOUR	1000		1000			
Z0062456	TEMPORARY PAVEMENT	SQ YD	337		337			
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000		1000			
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1		1			

* SPECIALTY ITEM
 ∅ 0042

REV - MS



USER NAME = msuheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/17/2026	DATE - 1/25/26	REVISED -

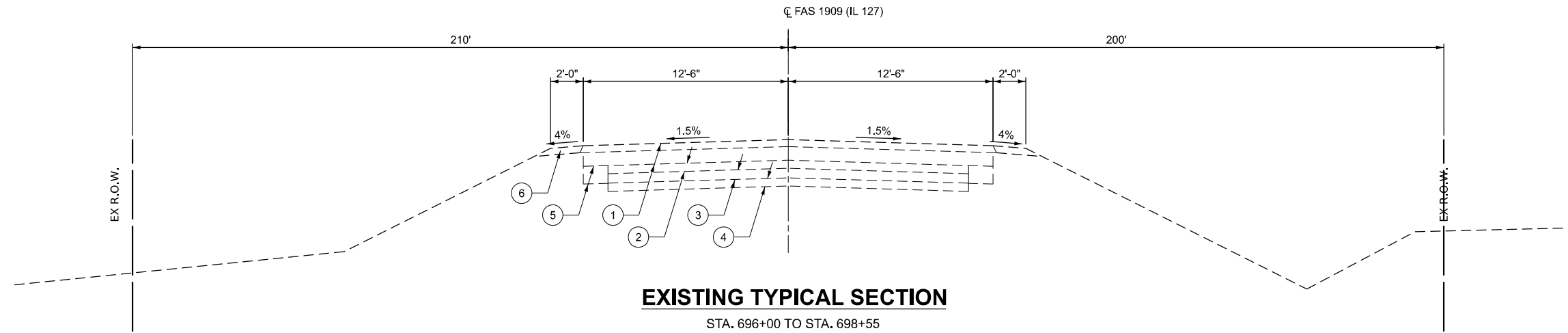
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

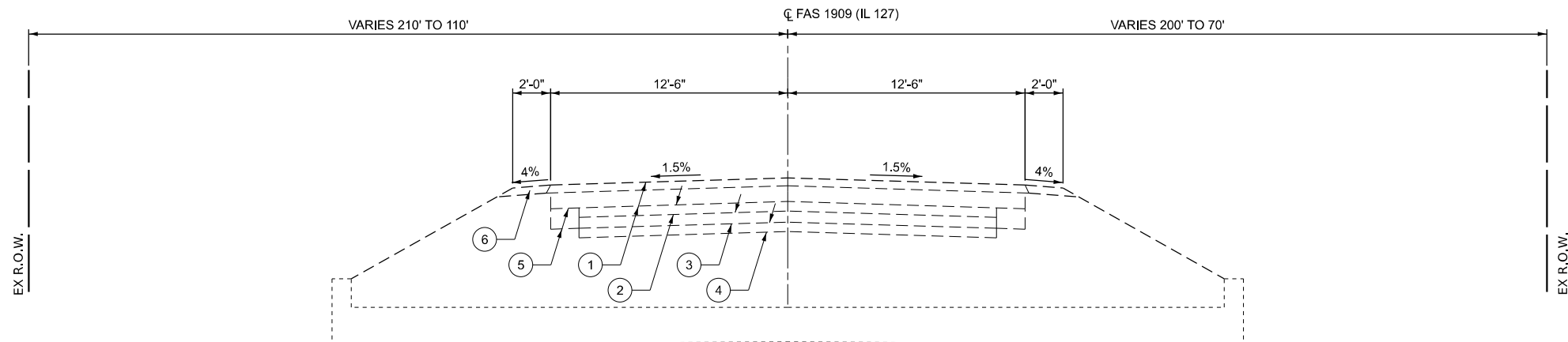
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	8
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



EXISTING TYPICAL SECTION
STA. 696+00 TO STA. 698+55



EXISTING TYPICAL SECTION
STA. 698+55 TO STA. 699+30

- ① EX HMA PAVEMENT, 7 1/2"
- ② EX AGG BASE COURSE, 3"
- ③ EX HMA PAVEMENT, 3 1/2"
- ④ EX AGG BASE COURSE, 3"
- ⑤ EX HMA WIDENING
- ⑥ EX AGGREGATE SHOULDER

MODEL: Typical Section (Sheet)
 FILE NAME: I:\2023\23044 [DOT D9 - PTB 207-948 - PE HI] \BB\091-2027\CAD\Drawings\2027-shr-Typical_Rdw\EX.dgn



USER NAME = msuheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 1/24/26	REVISED -

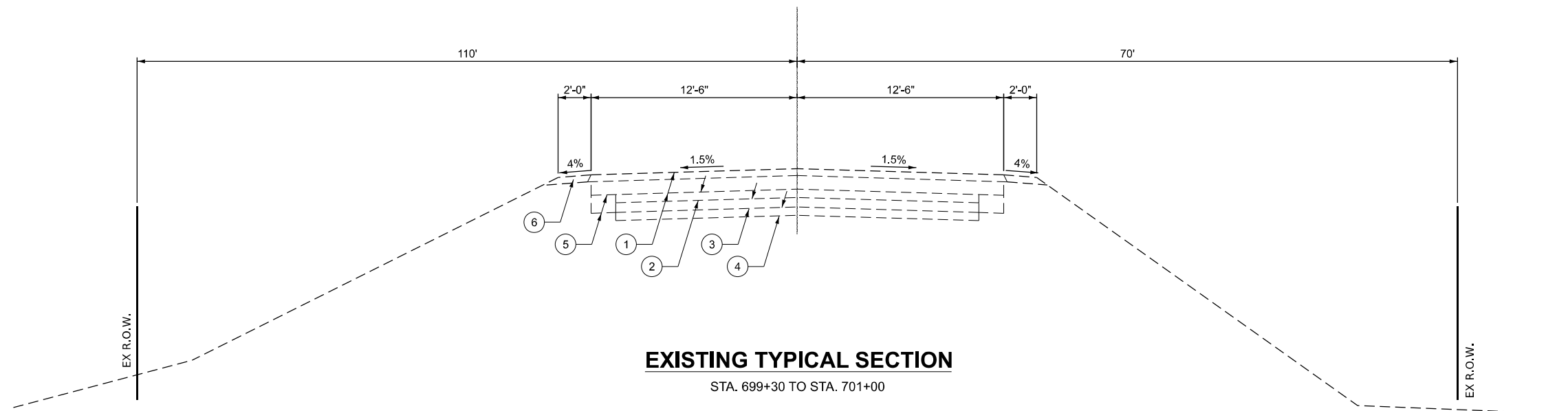
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
SN 091-2027 (P)**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	9
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



EXISTING TYPICAL SECTION

STA. 699+30 TO STA. 701+00

- ① EX HMA PAVEMENT, 7 ½"
- ② EX AGG BASE COURSE, 3"
- ③ EX HMA PAVEMENT, 3 ½"
- ④ EX AGG BASE COURSE, 3"
- ⑤ EX HMA WIDENING
- ⑥ EX AGGREGATE SHOULDER

MODEL: Typical Section - Ex 2 (Sheet)
 FILE NAME: I:\2023\23044 (DOT D9) - PTB 207-948 - PE HI\BB\091-2027\CAD\DATA\CAD\Sheets\0978A13-0912027-sht-Typical_Rdw\EX.dgn



USER NAME = msuheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 1/24/26	REVISED -

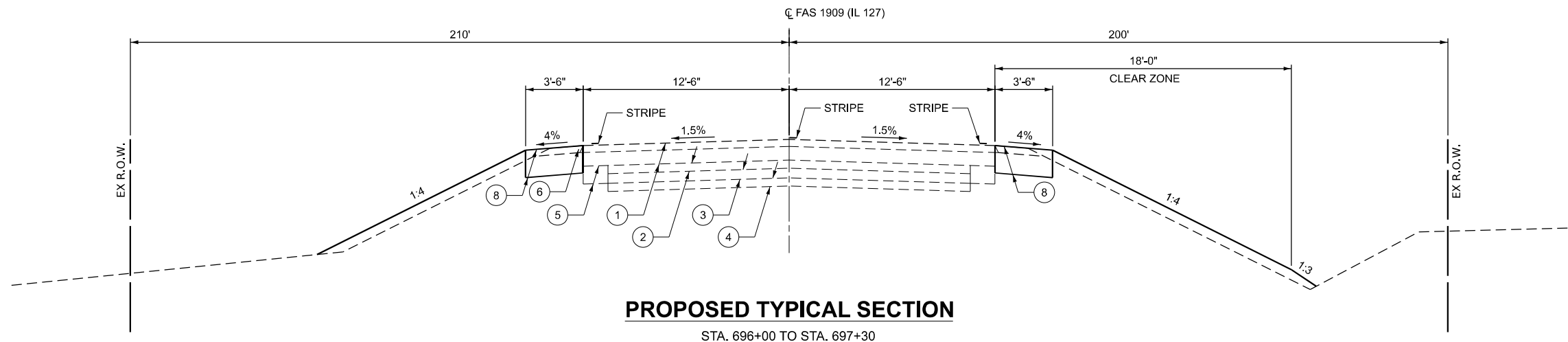
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 SN 091-2027 (P)**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	10
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

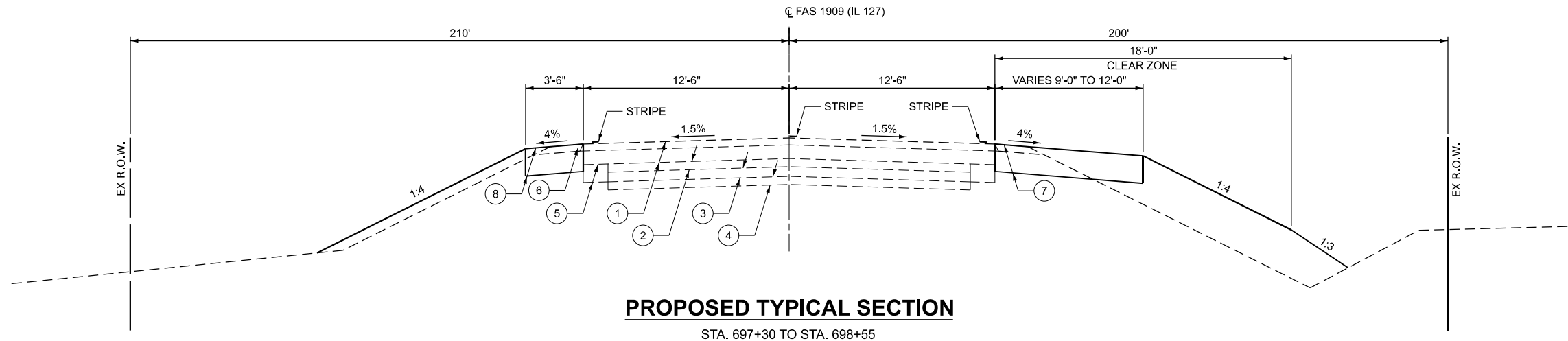
*** (30G,104A)(B-1);(13,14A)(CR-1)



PROPOSED TYPICAL SECTION

STA. 696+00 TO STA. 697+30

- ① EX HMA PAVEMENT, 7 1/2"
- ② EX AGG BASE COURSE, 3"
- ③ EX HMA PAVEMENT, 3 1/2"
- ④ EX AGG BASE COURSE, 3"
- ⑤ EX HMA WIDENING
- ⑥ EX AGGREGATE SHOULDER
- ⑦ PR PCC PAVEMENT, 10"
- ⑧ PR PCC SHOULDER 10"



PROPOSED TYPICAL SECTION

STA. 697+30 TO STA. 698+55

MODEL: Typical Section (Sheet) FILE NAME: I:\2023\23044 [DOT D9 - PTB 207-948 - PE HI BB]091-2027\CAD\Drawings\CAD\Drawings\DOT D9 - PTB 207-948 - PE HI BB\091-2027-shit-Typical_Rdwy\PR1.dgn



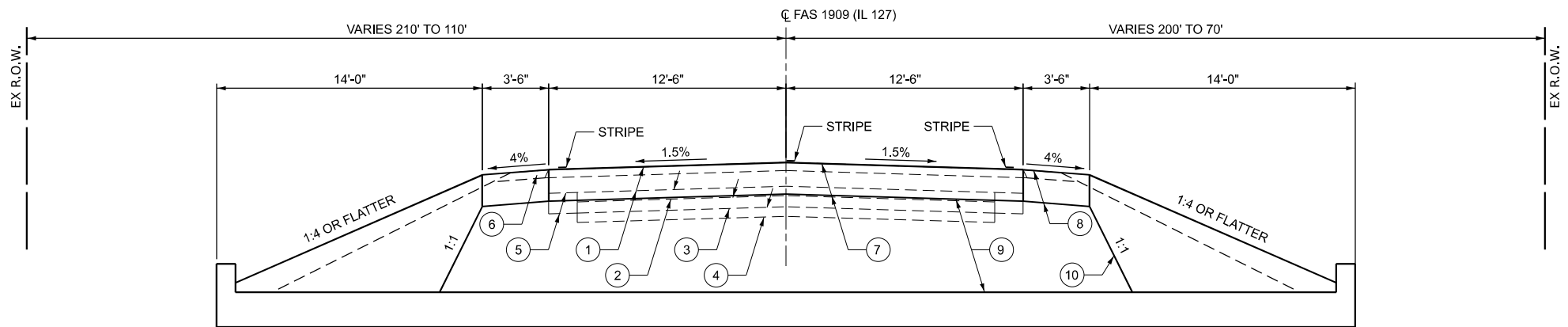
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	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 12/01/25	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS SN 091-2027			
SCALE:	SHEET 3	OF 2 SHEETS	STA. TO STA.

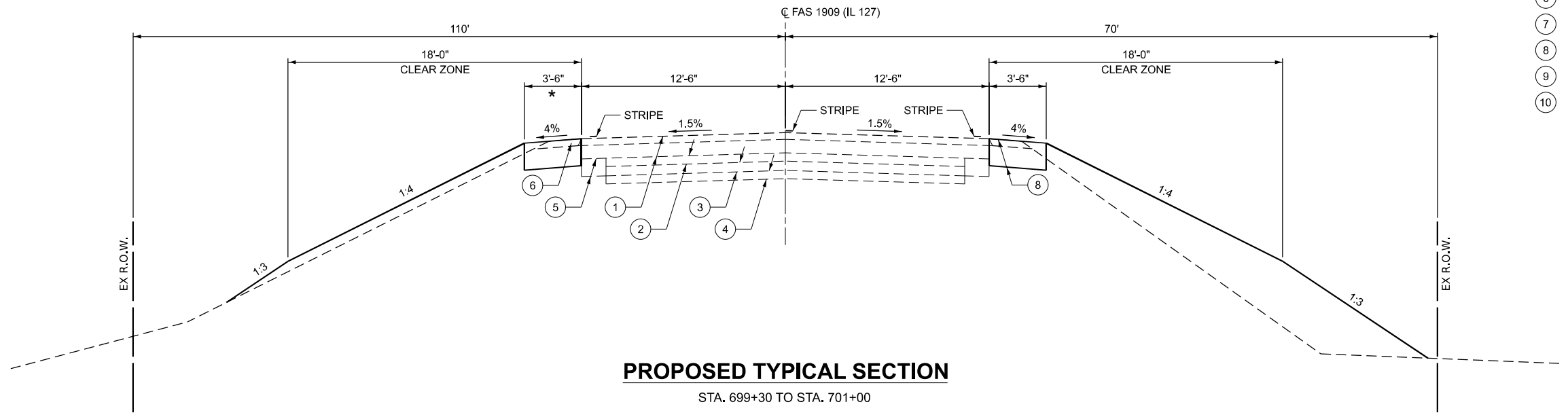
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	11
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



PROPOSED TYPICAL SECTION

STA. 698+55 TO STA. 699+30



PROPOSED TYPICAL SECTION

STA. 699+30 TO STA. 701+00

* END STA. 700+78

- ① EX HMA PAVEMENT, 7 1/2"
- ② EX AGG BASE COURSE, 3"
- ③ EX HMA PAVEMENT, 3 1/2"
- ④ EX AGG BASE COURSE, 3"
- ⑤ EX HMA WIDENING
- ⑥ EX AGGREGATE SHOULDER
- ⑦ PR PCC PAVEMENT, 10"
- ⑧ PR PCC SHOULDER 10"
- ⑨ PR POROUS GRANULAR EMBANKMENT
- ⑩ MAX. PAY LIMITS OF POROUS GRANULAR EMBANKMENT (TYP.)

MODEL: Typical Section (Sheet) FILE NAME: I:\2023\23044 [DOT] D9 - PTB 207-948 - PE HI BB\091-2027\CAD\Drawings\091-2027-shr-Typical_Rdwy\PR2.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/9/2026	DATE - 12/01/25	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
SN 091-2027**

SCALE: SHEET 4 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	12
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
*** (30G,104A)(B-1);(13,14A)(CR-1)

TEMPORARY CONCRETE BARRIER SCHEDULE							
LOCATION	TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
STATION TO STATION	FOOT	EACH	FOOT	EACH	EACH	EACH	EACH
STRUCTURE NO. 091-2027							
STAGE I							
698+55 TO 698+80	25.0						
698+55 TO 698+80	25.0						
698+67.5 TO 699+17.5		12					
698+67.5 TO 699+55		18					
698+55				1			
698+55					2		
698+80 TO 699+17.5	37.5						
698+80 TO 699+42.5	62.5						
699+17.5 TO 699+30	12.5						
699+30					1		
699+42.5 TO 700+29.7	87.5						
700+29.7					1		
STAGE II							
698+45 TO 699+32.5			87.5				
698+45							1
698+55						1	
698+57.5 TO 699+57.5		21					
698+57.5 TO 699+95			137.5				
698+57.5							1
698+70 TO 699+57.5		18					
699+32.5 TO 700+82	137.5		12.5				
699+95 TO 700+07.5			12.5				
700+7.5							1
700+82							1
TOTAL	387.5	69.0	250.0	1	4	1	4

PAVEMENT MARKING SCHEDULE							
LOCATION			NOTES	PAVEMENT MARKING REMOVAL - GRINDING	PAINT PAVEMENT MARKING - LINE 24"	PAINT PAVEMENT MARKING - LINE 4"	
STATION	TO	STATION		SQ FT	FOOT	WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 091-2027							
694+52 TO 700+00			CENTERLINE DOUBLE	366			1096
695+55 TO 697+55			RIGHT EDGE	67			
695+55 TO 697+23			RIGHT EDGE			168	
696+00 TO 700+78			LEFT EDGE	160		478	
697+90 TO 698+30			RIGHT EDGE	13			
697+96.42 TO 698+08.81			STATE FOREST RD STOP BAR		12		
698+20.03 TO 698+48.53			STATE FOREST RD STOP BAR		28		
698+70.53 TO 701+00			RIGHT EDGE	77		230	
700+00 TO 702+69			SKIPDASH	23			70
700+00 TO 702+69			NO PASSING LANE	90			269
SUBTOTAL				796	40	876	1435
TOTAL				796	40	876	1435

SHOULDER SCHEDULE				
LOCATION		EXCAVATING AND GRADING EXISTING SHOULDER	PORTLAND CEMENT CONCRETE SHOULDERS 10"	
		20200600	48300500	
STATION	TO STATION	UNIT	SQ YD	
STRUCTURE NO. 091-2027				
PRE-STAGE I				
696+00 LT TO 698+55 LT		2.6	99.2	
699+30 LT TO 700+78 LT		1.5	57.6	
STAGE I				
696+00 RT TO 697+30 RT		1.3	50.6	
698+65 RT TO 699+30 RT		0.7	25.3	
699+30 RT TO 701+00 RT		1.7	66.1	
STAGE II				
698+55 LT TO 699+30 LT		0.8	29.2	
TOTAL		8.6	328.0	

PAVEMENT SCHEDULE											
LOCATION			WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PAVEMENT REMOVAL	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	CONCRETE MEDIAN SURFACE, 4 INCH	TEMPORARY PAVEMENT REMOVAL	ISLAND REMOVAL	TEMPORARY PAVEMENT
STATION	TO	STATION	SQ YD	SQ YD	SQ YD	FOOT	FOOT	SQ FT	SQ YD	SQ FT	SQ YD
STRUCTURE NO. 091-2027											
PRE-STAGE I											
697+24 RT TO 698+68 RT			141.0	141.0	141.0						
697+98 LT TO 698+48 LT					21.0						
698+13 RT										76.0	
698+37.16 LT TO 699+52 LT											74.9
STAGE I											
695+55 RT TO 697+55 RT											98.2
698+45 RT TO 700+85 RT											163.6
698+55 RT TO 699+30 RT			46.0	46.0	104.2						
STAGE II											
698+55 LT TO 699+30 LT			163.0	163.0	104.2						
POST-STAGE II											
698+08.82 RT TO 698+24.15 RT					24.4	14.5	32.5	101			
698+37.16 LT TO 699+52 LT									74.9		
695+55 RT TO 697+55 RT									90.2		
698+45 RT TO 700+85 RT									163.6		
TOTAL			350	350	395	14.5	32.5	101	337	76	337

MODEL: Schedule Sheet 1
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BB\091-2027\CAD\DATA\CAD\Sheets\091-2027-shd-Schedule.dgn



USER NAME = Ismaily	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/24/2026	DATE - 8/28/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SN 091-2027 (P)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	13
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBRANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
STATION TO STATION	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD
STRUCTURE NO. 091-2027							
STAGE I	129	25%	97	768	671		671
STAGE II	448	25%	336	0		336	
TOTAL	577						671

SEEDING/EROSION CONTROL SCHEDULE														
LOCATION			AREA	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STATION	TO	STATION	SQ FT	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	POUND	FOOT	FOOT
STRUCTURE NO. 091-2027														
695+51	RT	TO 697+64	RT											
695+51	RT	TO 701+00	RT	5490	0.20	0.20	18	18	18	0.40	0.20	40		
696+00	LT	TO 700+78	LT	4780	0.07	0.07	7	7	7	0.14	0.07	14		
STAGE 1														
695+55	RT	TO 697+57	RT								442		70	240
695+77	RI	TO 699+76	RI											
696+00	LT	TO 697+69	LT								74			
696+00	LT	TO 698+55	LT											239
698+35	LT	TO 700+78	LT								209			
698+44	RI	TO 701+00	RI								386			294
698+99	LT	TO 700+78	LT											208
STAGE 2														
695+55	RT	TO 697+34	RT								281			
695+55	RT	TO 700+08	RT										50	327
695+79	RT	TO 699+76	RT											
698+36	LT	TO 699+54	LT								113			88
698+50	RT	TO 700+07	RT								152			
TOTAL				0.27	0.27	25	25	25	0.54	0.27	1,657	54	120	1,396

MODEL: Schedule Sheet 2
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BIB\091-2027\CAD\Drawings\091-2027-shft-Schedule.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 8/28/25	REVISED -

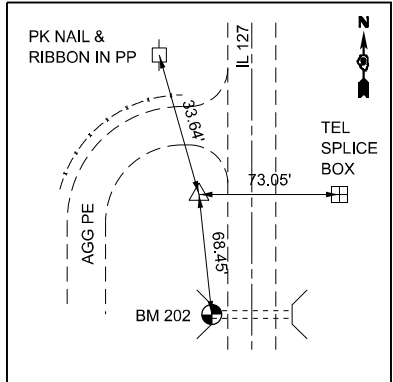
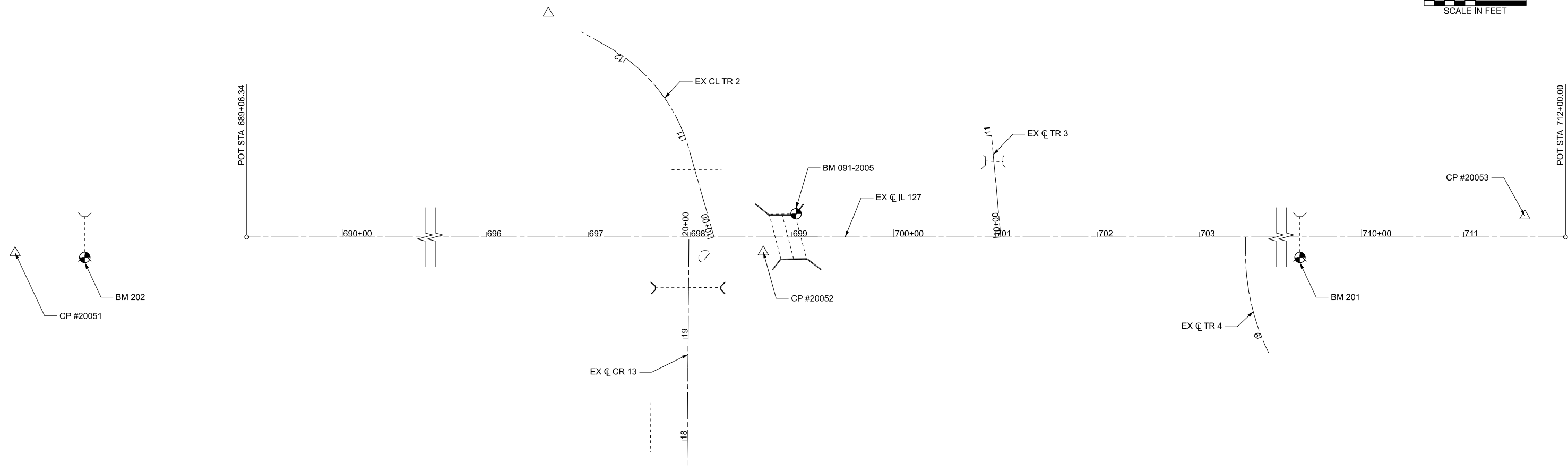
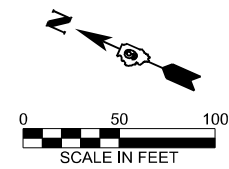
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SN 091-2027 (P)

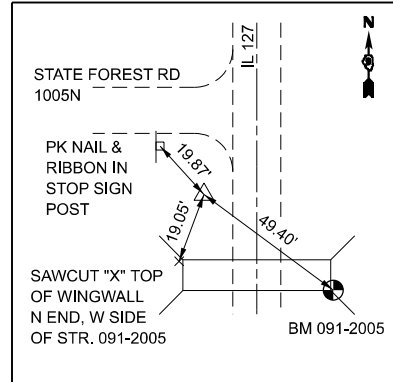
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	14
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

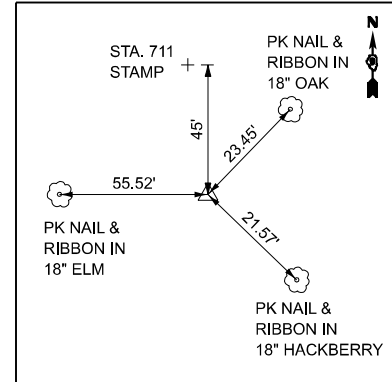
*** (30G,104A)(B-1);(13,14A)(CR-1)



CONTROL POINT #20051
 IRON PIN W/ CAP
 STA. 686+78.71, 15.46' RT.
 N 299475.228
 E 2543248.140
 ELEV 492.38



CONTROL POINT #20052
 IRON PIN W/ CAP
 STA. 698+71.90, 14.59' RT.
 N 298386.190
 E 2543735.037
 ELEV 439.61



CONTROL POINT #20053
 IRON PIN W/ CAP
 STA. 711+60.18, 20.63' LT.
 N 297224.074
 E 2544292.163
 ELEV 497.28

- BENCHMARKS**
- BM 202
CHISELED "□" TOP CENTER OF WEST HEADWALL OF 12" CROSS ROAD CULVERT
STA. 687+45, 22.6' RT
ELEV 488.90
 - BM 091-2005
CHISELED "□" ON TOP OF WING WALL, SOUTH END OF EAST SIDE OF STR. #091-2005
STA. 699+04.0, 22.8' LT
ELEV 436.99
 - BM 201
CHISELED "□" TOP CENTER OF WEST HEADWALL OF 36" CROSS ROAD CULVERT
STA. 708+00, 24.5' RT
ELEV 482.29

MODEL: ATB Sheet
 FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-948 - PE HJ\B\091-2027\CAD\Drawings\091-2027-shf-ATB.dgn



USER NAME = msuheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 7/25/25	REVISED -

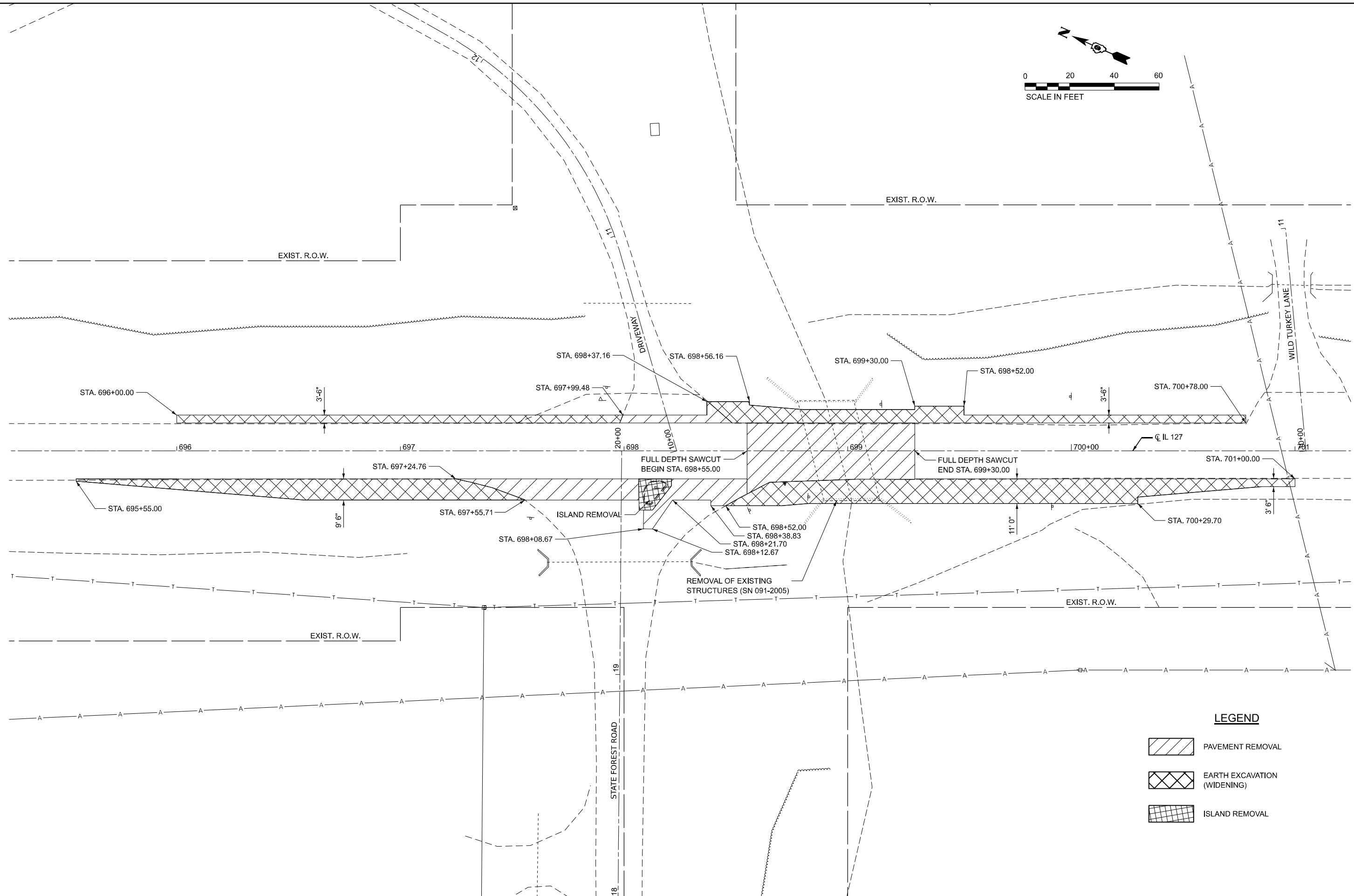
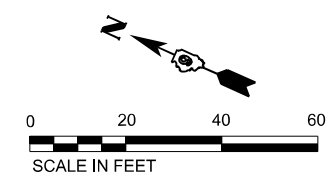
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
SN 091-2027 (P)**




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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	15
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



LEGEND

-  PAVEMENT REMOVAL
-  EARTH EXCAVATION (WIDENING)
-  ISLAND REMOVAL

MODEL: IL 127 - Removal plan-1 [Sheet]
FILE NAME: P:\2024\ME2402_PTB_207-448_D9_PH_HI_K&T\CADD\CADD_Sheets\091-2027\CADDData\CADD_Sheets\091-2027-sht-Removal.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - MALH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

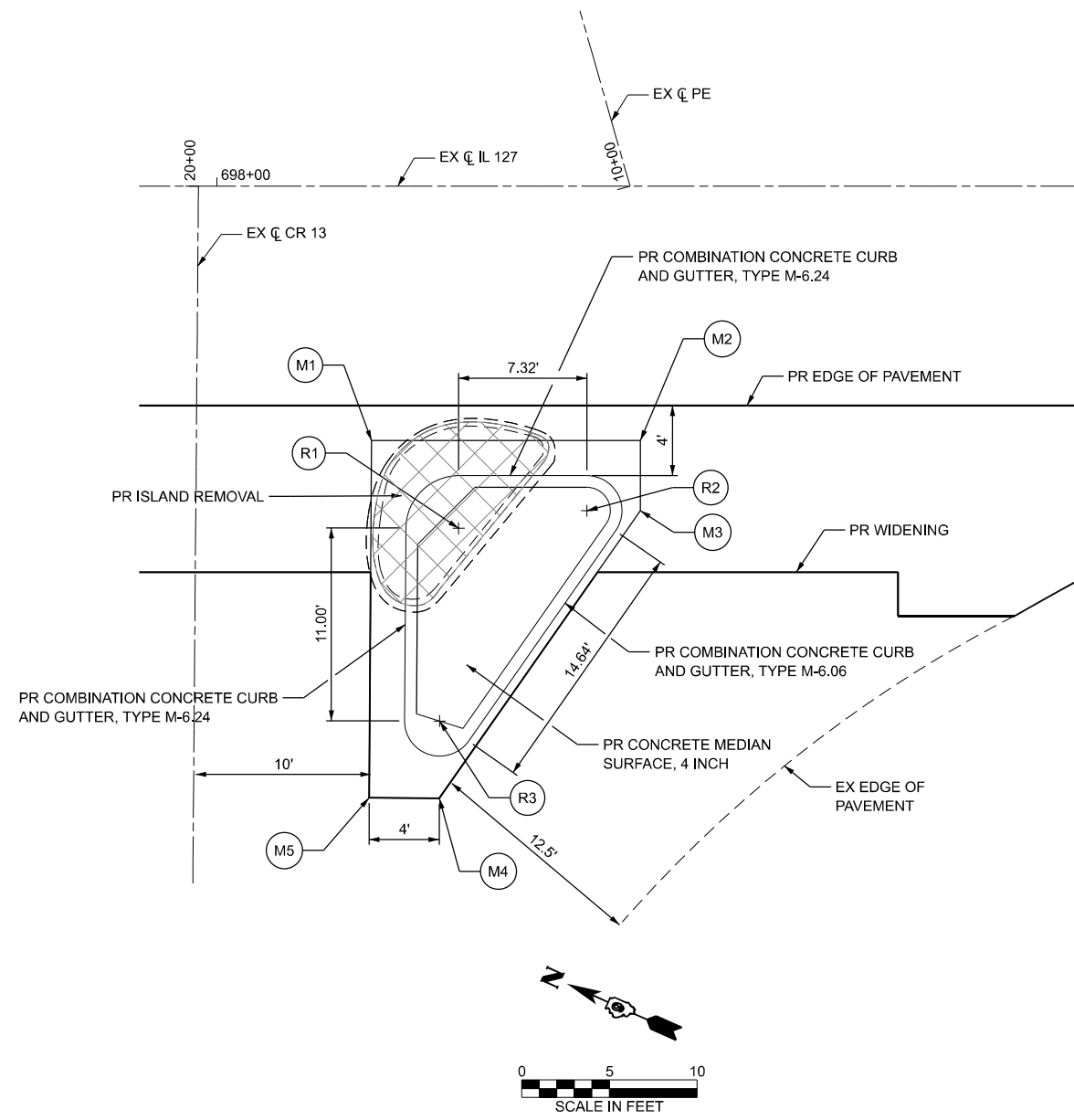
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
SN 091-2027 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 695+25.00 TO STA. 701+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	17
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• (30G, 104A)(B-1);(13,14A)(CR-1)



ISLAND CONTROL POINT COORDINATES					
POINT NO.	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
M1	698+08.82	14.50 RT	298,443.84	2,543,709.42	CORNER
M2	698+24.15	14.50 RT	298,429.84	2,543,715.66	CORNER
M3	698+24.15	18.50 RT	298,428.21	2,543,712.01	CORNER
M4	690+12.67	34.90 RT	298,432.01	2,543,692.36	CORNER
M5	698+08.67	34.87 RT	298,435.67	2,543,690.76	CORNER
R1	698+13.78	19.50 RT	298,437.27	2,543,706.87	RAD PT (3' R)
R2	698+20.10	18.50 RT	298,430.99	2,543,710.77	RAD PT (2' R)
R3	698+12.70	30.49 RT	298,433.78	2,543,696.48	RAD PT (2' R)

NOTE: RADIUS DIMENSIONS ARE TO THE FACE OF CURB AT FLOWLINE

MODEL: Island Detail Sheet
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BB\091-2027\CADData\CADSheets\0978A13-0912027-shh-intersec.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/17/2026	DATE - 1/25/26	REVISED -

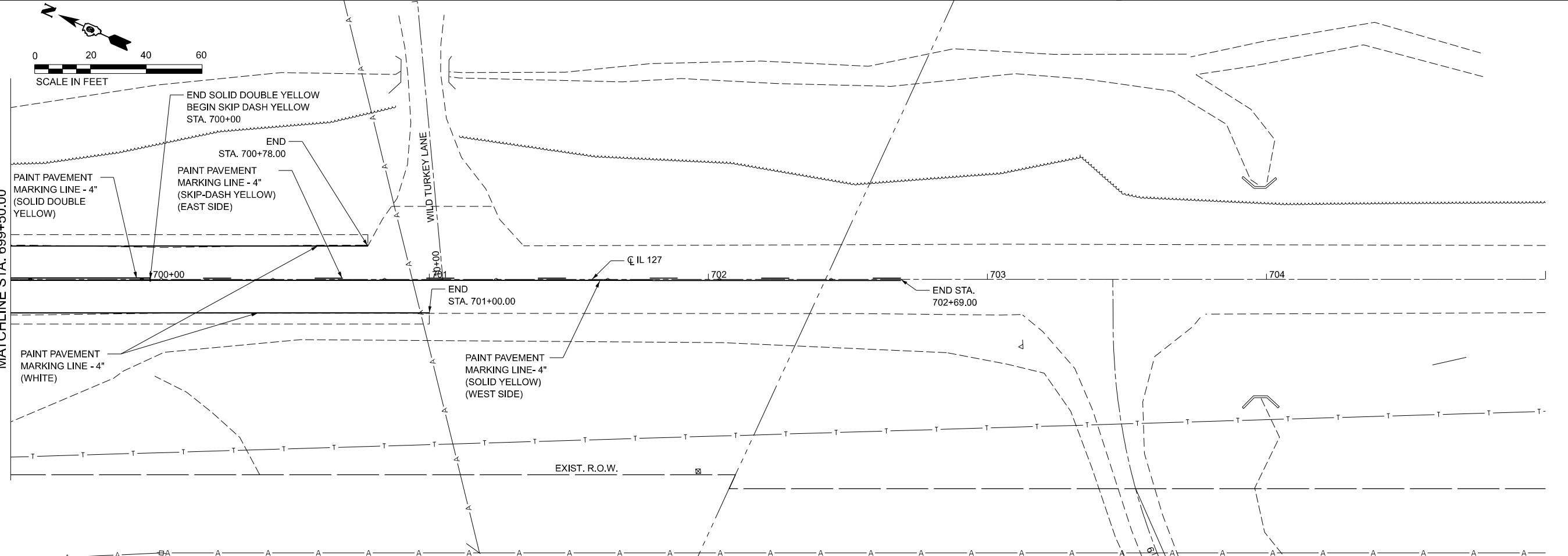
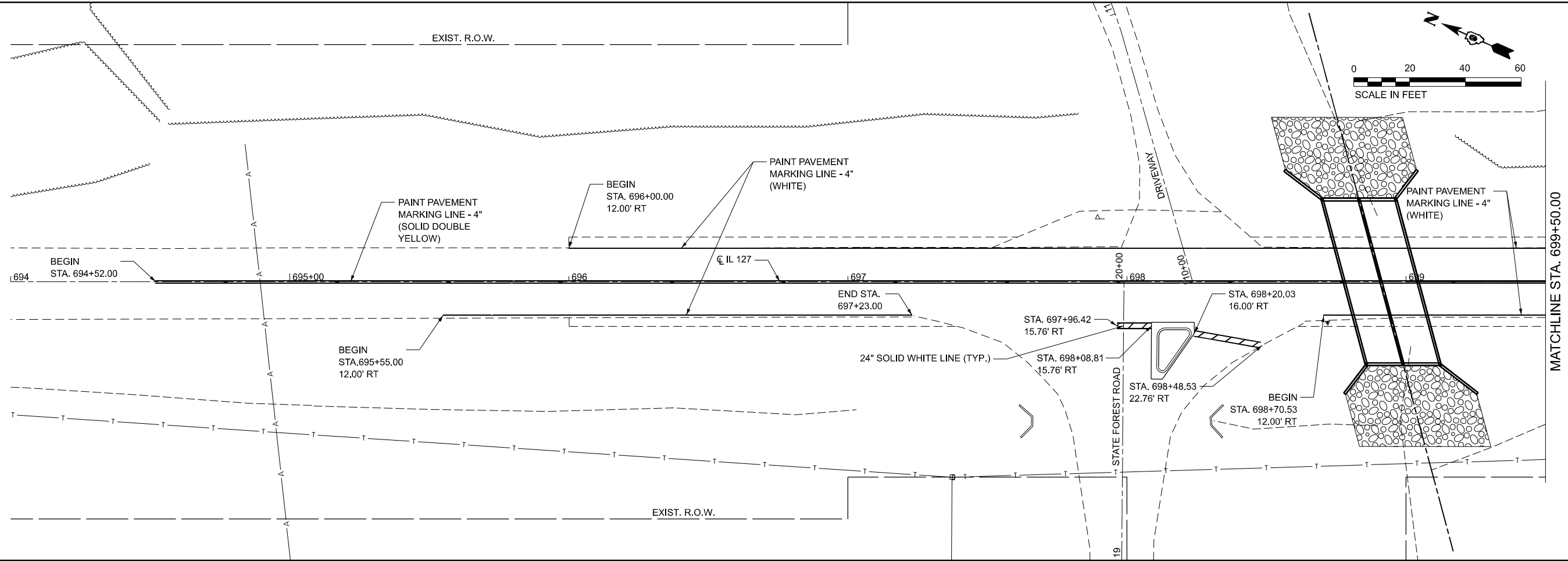
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ISLAND GEOMETRICS
SN 091-2027 (P)**

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	18
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



MODEL: IL 127 - PMK1 (Sheet)
 FILE NAME: P:\2024\11\24\02_PTB_207-448.D9 PH LH_K&T\CADD\CADD_Sheets\091-2027\CADDData\CAD\Drawings\978A13-0912027-sht-PMK.dgn

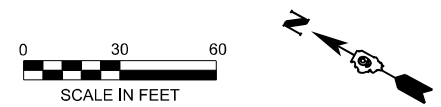


USER NAME = Iharell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

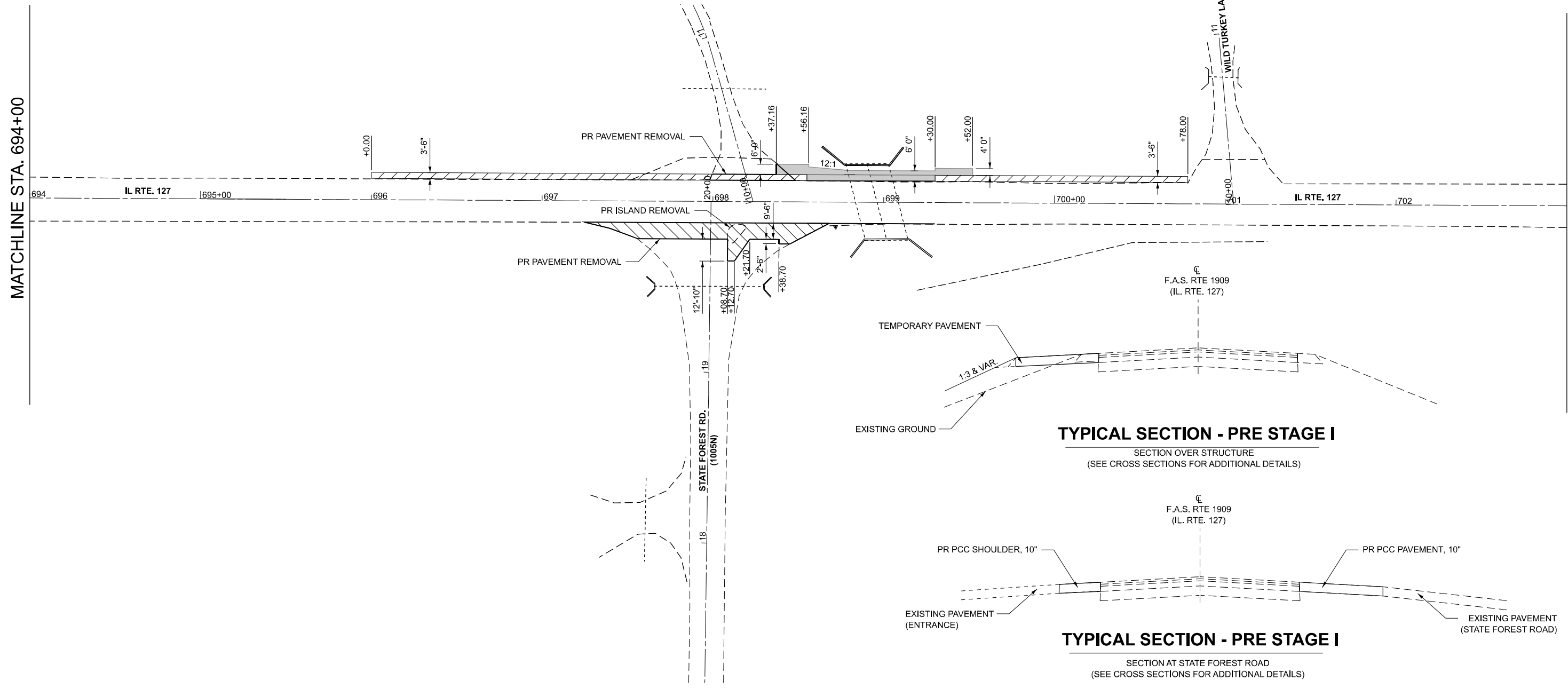
PAVEMENT MARKING PLAN	
SN 091-2027 (P)	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS
STA. 694+00.00	TO STA. 705+00.00

F.A.P. RTE. VARIOUS	SECTION ***	COUNTY UNION	TOTAL SHEETS 114	SHEET NO. 19
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT #** (30G, 104A)(B-1); (13, 14A)(CR-1)				



MATCHLINE STA. 694+00

MATCHLINE STA. 703+00



TYPICAL SECTION - PRE STAGE I

SECTION OVER STRUCTURE
(SEE CROSS SECTIONS FOR ADDITIONAL DETAILS)

TYPICAL SECTION - PRE STAGE I

SECTION AT STATE FOREST ROAD
(SEE CROSS SECTIONS FOR ADDITIONAL DETAILS)

LEGEND

- TEMPORARY PAVEMENT
- PR PCC SHOULDER, 10"
- PR PCC PAVEMENT, 10"

SEQUENCE OF CONSTRUCTION

- PRE-STAGE I**
- REMOVE ENTRANCE PAVEMENT & CONSTRUCT PR PCC SHOULDER & TEMPORARY PAVEMENT ALONG NORTHBOUND LANE UNDER IDOT HIGHWAY STANDARD 701201.
 - REMOVE PAVEMENT & ISLAND AT STATE FOREST ROAD, CONSTRUCT PR PCC PAVEMENT AT STATE FOREST ROAD UNDER IDOT HIGHWAY STANDARDS 701201, 701326

NOTES

- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE REVISED STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANDARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDEROADS AND ENTRANCES DURING ALL PHASES OF CONSTRUCTION.
- SEE STRUCTURAL PLANS FOR ADDITIONAL STAGE CONSTRUCTION DETAILS.

MODEL: Pre-Stage 1
FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-248 - PE HI\BB\091-2027\CAD\Drawings\0978A13-0912027-shit-Stage Pre-1.dgn



USER NAME = Ismalley	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/16/2026	DATE - 1/25/26	REVISED -

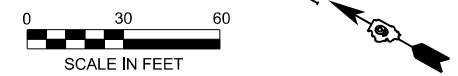
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLANS - PRE-STAGE
SN 091-2027 (P)**

SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

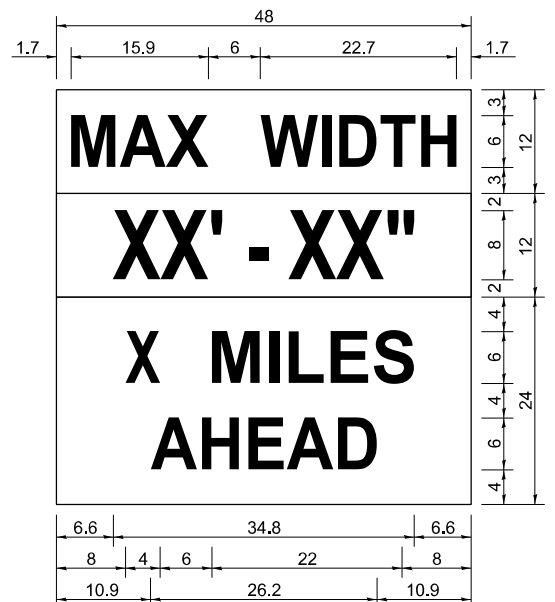
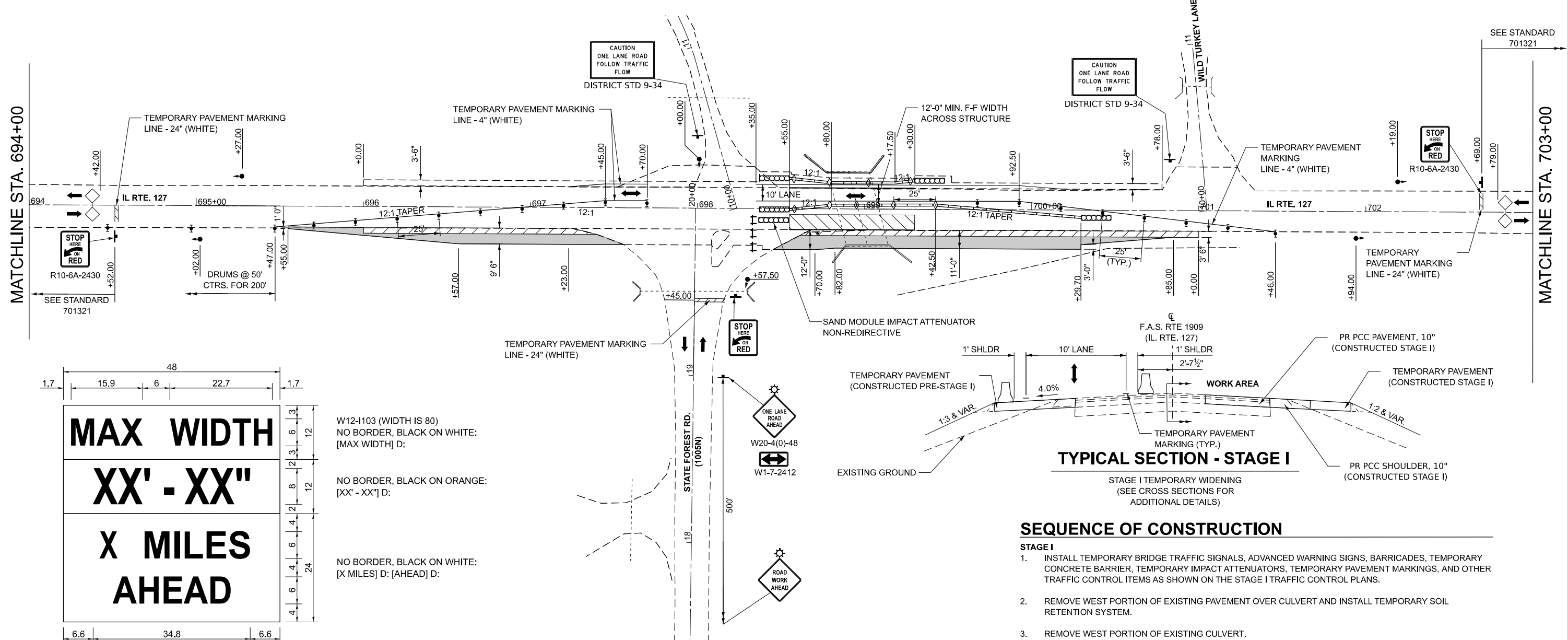
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	20
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



MATCHLINE STA. 694+00

MATCHLINE STA. 703+00



W12-1103 (WIDTH IS 80)
NO BORDER, BLACK ON WHITE:
[MAX WIDTH] D:

NO BORDER, BLACK ON ORANGE:
[XX' - XX\"] D:

NO BORDER, BLACK ON WHITE:
[X MILES] D; [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

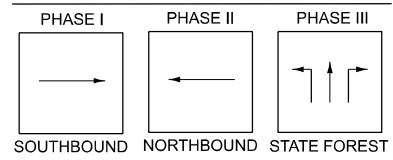
W12-1103

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY ENGINEER, ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

LEGEND

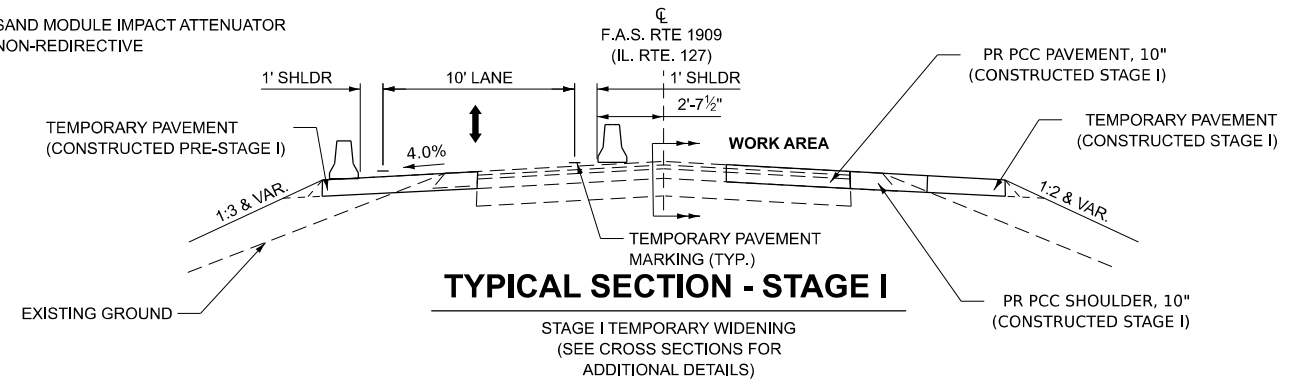
- TEMPORARY PAVEMENT
- PR PCC PAVEMENT, 10"
- PR PCC SHOULDER, 10"
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- SIGN
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TYPE C BIDIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHT
- LIGHT, TYPE B

PHASING DIAGRAMS



STAGE I PINNING PLAN

* INCLUDED IN THE PRICE OF TEMPORARY CONCRETE BARRIER



SEQUENCE OF CONSTRUCTION

- STAGE I**
- INSTALL TEMPORARY BRIDGE TRAFFIC SIGNALS, ADVANCED WARNING SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL ITEMS AS SHOWN ON THE STAGE I TRAFFIC CONTROL PLANS.
 - REMOVE WEST PORTION OF EXISTING PAVEMENT OVER CULVERT AND INSTALL TEMPORARY SOIL RETENTION SYSTEM.
 - REMOVE WEST PORTION OF EXISTING CULVERT.
 - CONSTRUCT WEST PORTION OF PROPOSED REINFORCED CONCRETE BOX CULVERT AND GRANULAR CULVERT BACKFILL.
 - CONSTRUCT WEST PORTION OF PROPOSED PCC PAVEMENT OVER STRUCTURE
 - CONSTRUCT PR PCC SHOULDER & TEMPORARY PAVEMENT ALONG SOUTHBOUND LANES UNDER IDOT HIGHWAY STANDARD 701321.

NOTES

- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE REVISED STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANDARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDEROADS AND ENTRANCES DURING ALL PHASES OF CONSTRUCTION.
- SEE STRUCTURAL PLANS FOR ADDITIONAL STAGE CONSTRUCTION DETAILS.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHALL BE 10'-0" FOR STAGE I & STAGE 2 CONSTRUCTION. THE LOCATION OF THE ADVANCED WARNING SIGN SHALL BE DETERMINED BY THE RESIDENT ENGINEER

MODEL - Stage 1
FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-948 - PE-HI\BIB091-2027\CADData\CADSheets\0978A13-0912027-sh1t-Stage1.dgn



USER NAME = Ismailay	DESIGNED - JRS	REVISIONS
PLOT DATE = 3/16/2026	DRAWN - MDS	REVISIONS
	CHECKED - JRS	REVISIONS
	DATE - 1/25/26	REVISIONS

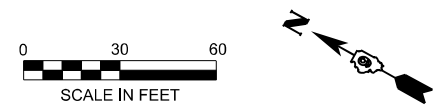
STATE OF ILLINOIS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION	VARIOUS	***	UNION	114	21
	CONTRACT NO. 78A13			ILLINOIS FED. AID PROJECT	

SCALE:	SHEET 5	OF 9 SHEETS	STA.	TO STA.
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TRAFFIC CONTROL PLANS - STAGE I				
SN 091-2027 (P)				

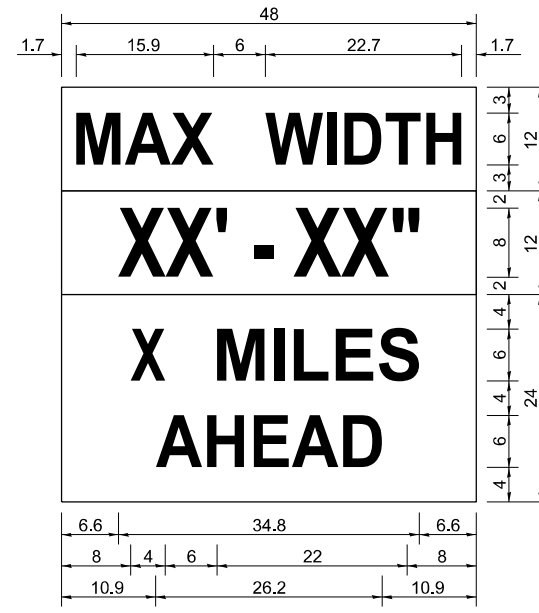
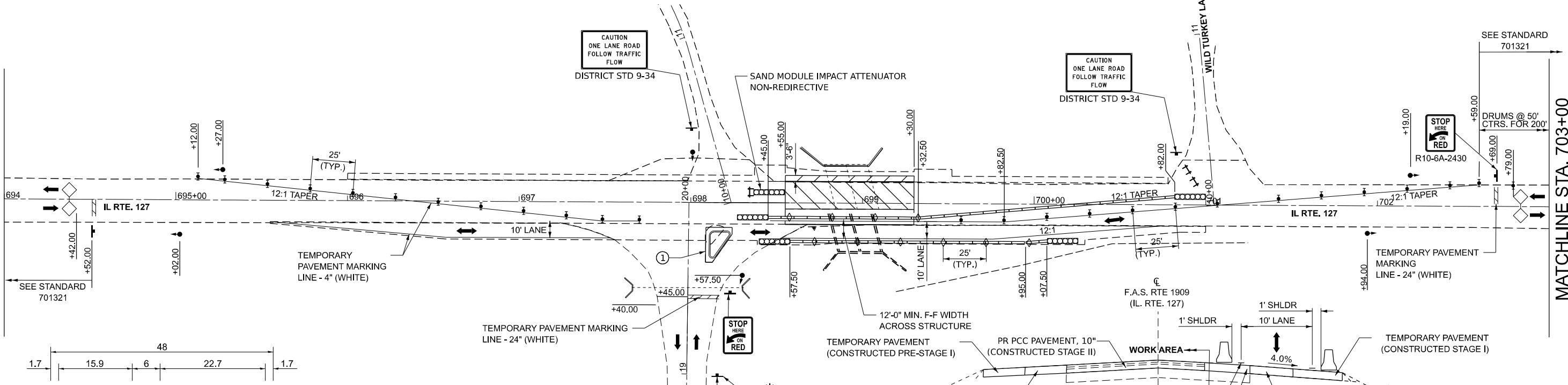
ILLINOIS	FED. AID PROJECT
*** (30G,104A)(B)-1;(13,14A)(CR)-1	

- ① PR COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06
- PR COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- PR CONCRETE MEDIAN SURFACE, 4 INCH (CONSTRUCTED POST-STAGE II)



MATCHLINE STA. 694+00

MATCHLINE STA. 703+00



- W12-1103 (WIDTH IS 80)
NO BORDER, BLACK ON WHITE:
[MAX WIDTH] D:
- NO BORDER, BLACK ON ORANGE:
[XX' - XX'] D:
- NO BORDER, BLACK ON WHITE:
[X MILES] D: [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

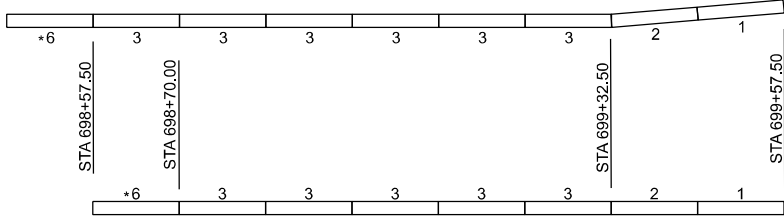
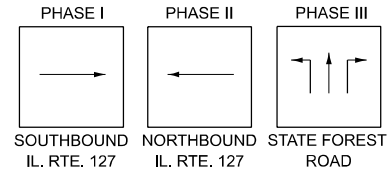
W12-1103

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY ENGINEER, ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

LEGEND

- PR PCC PAVEMENT, 10"
- PR PCC SHOULDER, 10"
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- SIGN
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TYPE C BIDIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHT
- LIGHT, TYPE B

PHASING DIAGRAMS



STAGE II PINNING PLAN

* INCLUDED IN THE PRICE OF TEMPORARY CONCRETE BARRIER

TYPICAL SECTION - STAGE II

(SEE CROSS SECTIONS FOR ADDITIONAL DETAILS)

SEQUENCE OF CONSTRUCTION

- STAGE II**
- INSTALL BARRICADES, TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL ITEMS AS SHOWN ON THE STAGE II TRAFFIC CONTROL PLANS.
 - REMOVE EAST PORTION OF EXISTING PAVEMENT.
 - REMOVE EAST PORTION OF EXISTING CULVERT.
 - COMPLETE CONSTRUCTION OF THE REINFORCED CONCRETE BOX CULVERT AND GRANULAR CULVERT BACKFILL.
 - COMPLETE CONSTRUCTION OF PCC PAVEMENT AND PCC SHOULDER ALONG NORTHBOUND LANE.
- POST-STAGE II**
- REMOVE BRIDGE TRAFFIC SIGNALS, ADVANCED WARNING SIGNS, BARRICADES, TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, TEMPORARY PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL ITEMS.
 - SAWCUT AND REMOVE TEMPORARY PAVEMENT ALONG IL 127 UNDER IDOT HIGHWAY STANDARD 701201
 - CONSTRUCT PROPOSED CONCRETE MEDIAN UNDER IDOT HIGHWAY STANDARDS 701201, 701326.
 - INSTALL PROPOSED PERMANENT PAVEMENT MARKINGS UNDER IDOT HIGHWAY STANDARD 701311.

NOTES

- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE REVISED STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANDARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDEROADS AND ENTRANCES DURING ALL PHASES OF CONSTRUCTION.
- SEE STRUCTURAL PLANS FOR ADDITIONAL STAGE CONSTRUCTION DETAILS.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHALL BE 10'-0" FOR STAGE I & STAGE 2 CONSTRUCTION. THE LOCATION OF THE ADVANCED WARNING SIGN SHALL BE DETERMINED BY THE RESIDENT ENGINEER

MODEL - Stage 2
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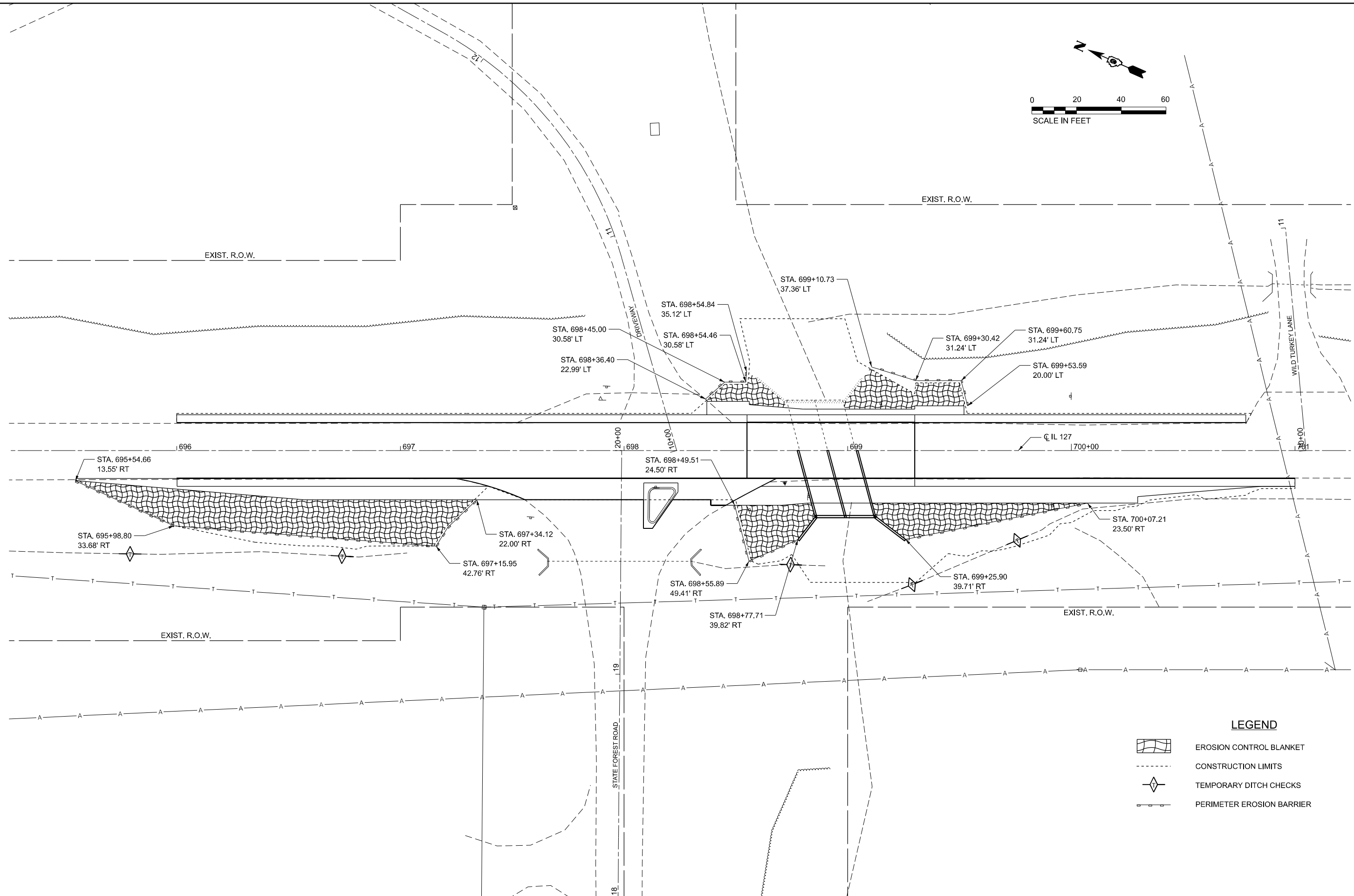
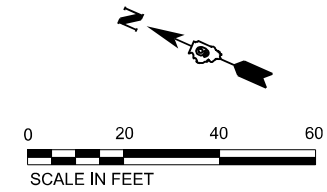
USER NAME = Ismaily	DESIGNED - JRS	REVISIONS -
DATE = 3/17/2026	DRAWN - MDS	REVISIONS -
	CHECKED - JRS	REVISIONS -
	DATE - 1/25/26	REVISIONS -

STATE OF ILLINOIS	TRAFFIC CONTROL PLANS - STAGE II
DEPARTMENT OF TRANSPORTATION	SN 091-2027 (P)

SCALE:	SHEET 6	OF 9	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	22
CONTRACT NO. 78A13				

ILLINOIS	FED. AID PROJECT
*** (30G, 104A)(B-1); (13, 14A)(CR-1)	



LEGEND

	EROSION CONTROL BLANKET
	CONSTRUCTION LIMITS
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER

MODEL: IL127 - ERO Control plan-2 (Sheet)
 FILE NAME: P:\2024\11\24\02_PTB_207-448.D9 PH_HI_K&T\CADD\CADD_Sheets\091-2027\CADDData\CADD_Sheets\091-2027-ero-control-stage-2.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - MA/LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

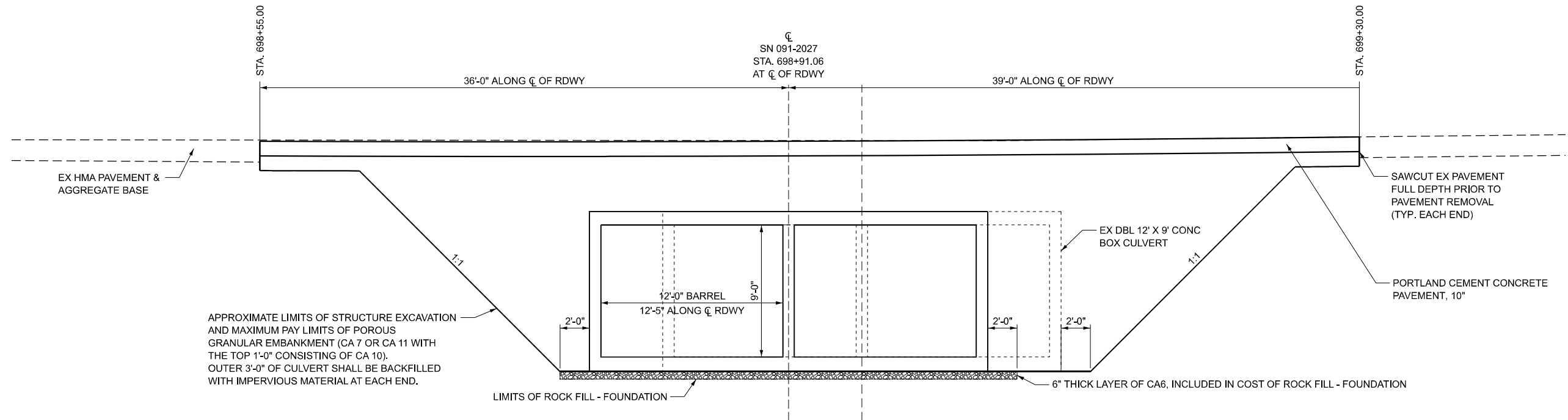
**EROSION CONTROL PLAN STAGE II
SN 091-2027 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 695+25.00 TO STA. 701+25.00

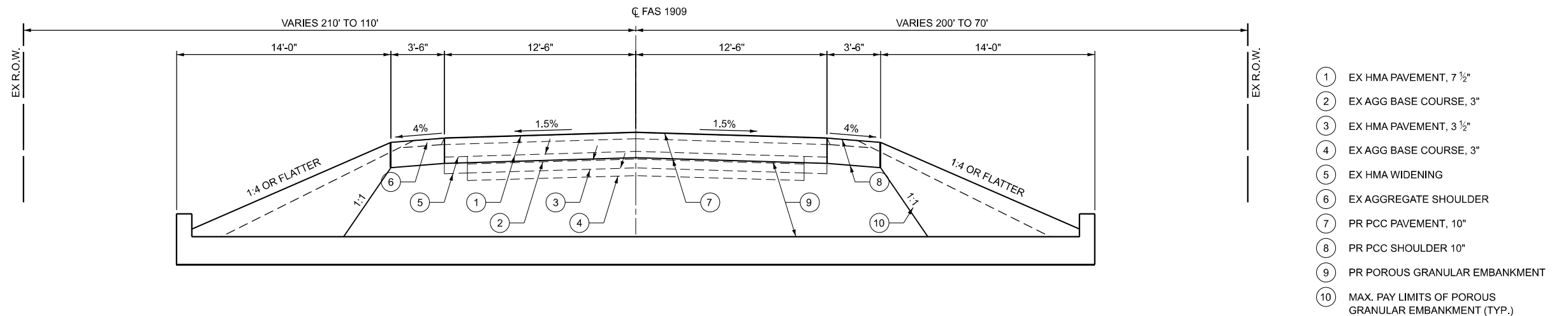
F.A.P. RTE. VARIOUS	SECTION ***	COUNTY UNION	TOTAL SHEETS 114	SHEET NO. 24
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• ***(30G, 104A)(B-1);(13,14A)(CR-1)

LIMITS OF POROUS GRANULAR EMBANKMENT



PROPOSED CULVERT LONGITUDINAL SECTION



MODEL: Typical Section (Sheet) FILE NAME: I:\2023\23044 [DOT D9] - PTB 207-948 - PE HI BB\091-2027\CAD\Drawings\DOT D9-13-091-2027-shit-Typical.dgn



USER NAME = Ismailay	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/19/2026	DATE - 1/24/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRANULAR CULVERT BACKFILL DETAILS
SN 091-2027 (P)**

SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	25
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
*** (30G,104A)(B-1);(13,14A)(CR-1)

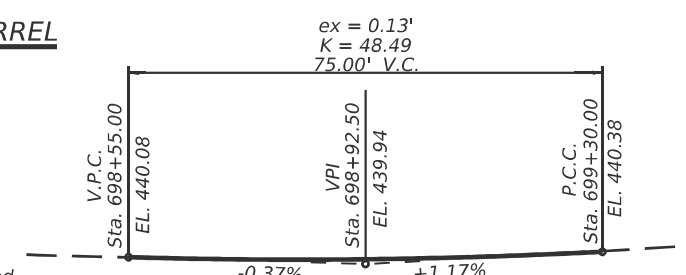
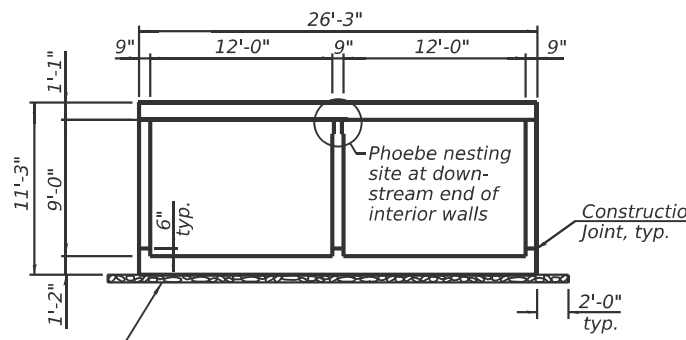
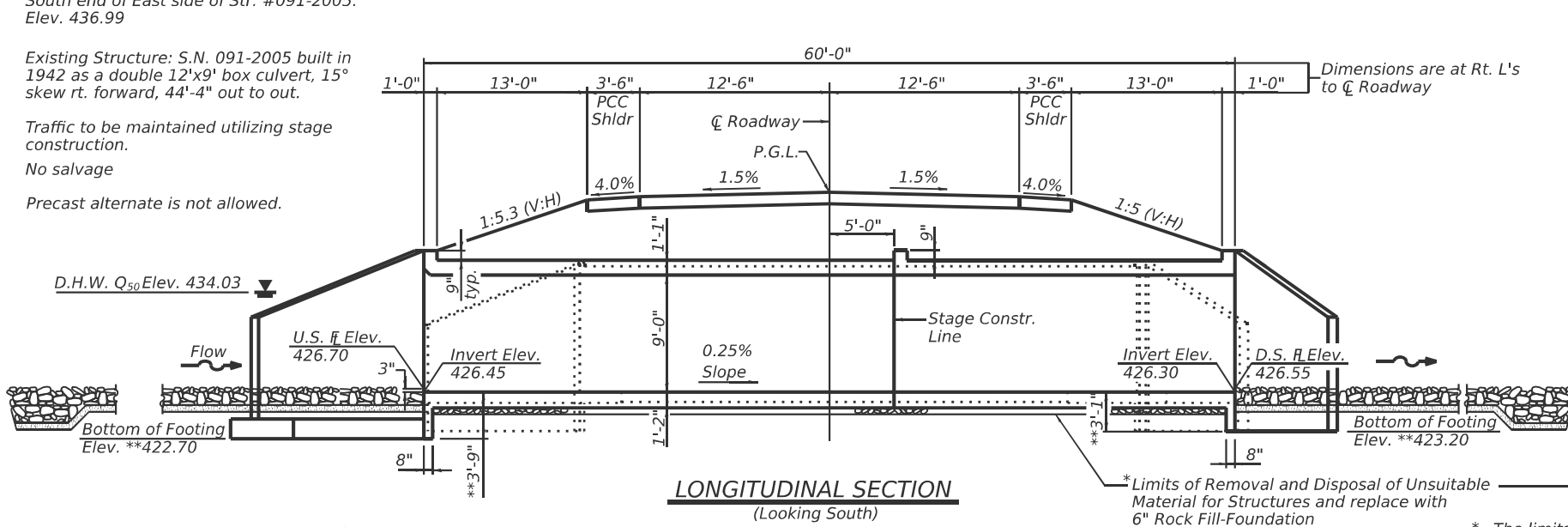
Bench Mark: Chiseled "□" top of wing wall
South end of East side of Str. #091-2005.
Elev. 436.99

Existing Structure: S.N. 091-2005 built in 1942 as a double 12'x9' box culvert, 15° skew rt. forward, 44'-4" out to out.

Traffic to be maintained utilizing stage construction.

No salvage

Precast alternate is not allowed.

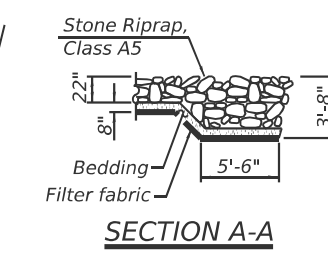
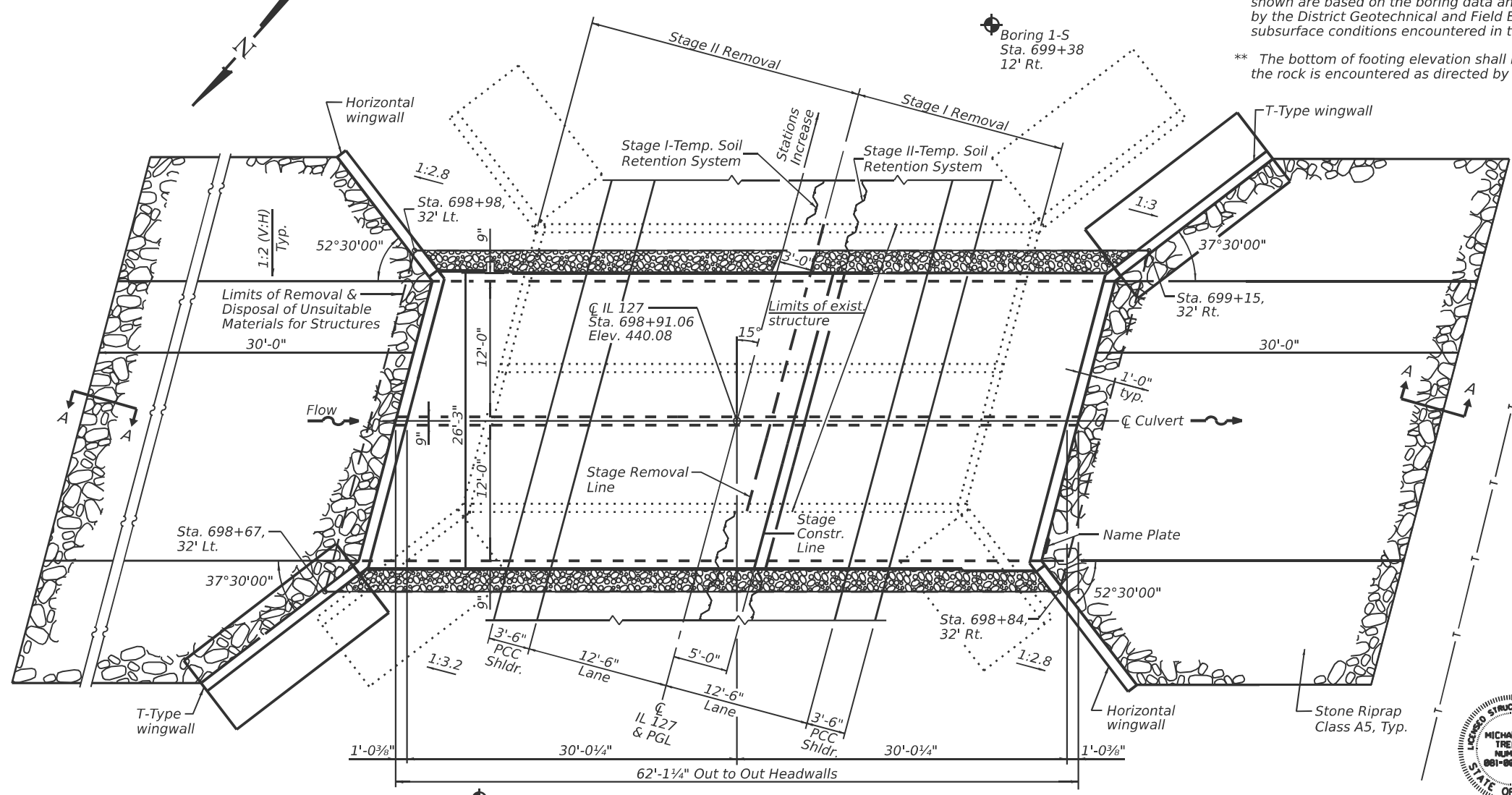


SHEET LIST

- 1 General Plan and Elevation
- 2 General Data
- 3 - 4 Stage Construction Details
- 5 Temporary Concrete Barrier
- 6 Culvert Details - Top Slab Plan
- 7 Culvert Details - Bottom Slab Plan
- 8 Culvert Details
- 9 Bar Splicer Assembly and Mechanical Splicer Details
- 10 Soil Boring Logs

* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

** The bottom of footing elevation shall be adjusted to where the rock is encountered as directed by the Engineer.



DESIGN SPECIFICATIONS
2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

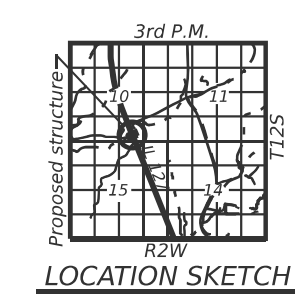
ALLOWABLE SOIL BEARING PRESSURE
(FOR WING WALL DESIGN)
q_u = 4033 Lbs./sf
Bearing on existing weathered limestone layer

WATERWAY INFORMATION

Exist. Low Grade Elev. = 440.08 @ Sta. 698+55.60
Prop. Low Grade Elev. = 440.08 @ Sta. 698+55.60
Drainage Area = 1.75 Sq. Mi.

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	983	146.04	152.04	432.79	0.45	0.35	433.24	433.14	
Design	50	1550	175.98	181.98	434.03	1.10	0.96	435.13	434.99
Base	100	1830	186.29	192.29	434.46	1.53	1.37	435.99	435.83
Max. Calc.	500	2610	210.75	216.75	435.48	3.69	3.41	439.17	438.89

10-Year Velocity Through Existing Structure = 6.97 fps
10-Year Velocity Through Proposed Structure = 6.68 fps



GENERAL PLAN AND ELEVATION
FAS ROUTE 1909 (IL 127) OVER
UNNAMED STREAM
SECTION 30G(B-1)
UNION COUNTY
STATION 698+91.06
STRUCTURE NO. 091-2027

Professional Engineer
MICHAEL J. TRELLO
NUMBER 061-086334
STATE OF ILLINOIS

DATE: MARCH 17 2026
EXPIRES: NOVEMBER 30 2026

MODEL: Sheet
FILE NAME: I:\2023\3044 IDOT D9 - PTB 207-048 - PE HI BB091-2027\CADD\Drawings\CAD\Drawings\091-2027-78A13-001-GPE.dgn
3/17/2026 2:10:11 PM

KT
KUNN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-629-0044

USER NAME =	DESIGNED - PRR	REVISED -
PLOT SCALE =	CHECKED - PDA	REVISED -
PLOT DATE =	DRAWN - MMY/JDC	REVISED -
	CHECKED - MJT	REVISED -

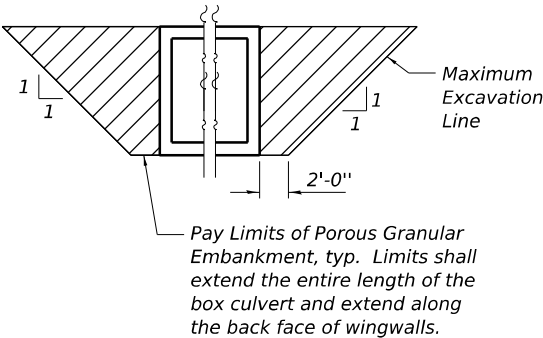
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 10 SHEETS

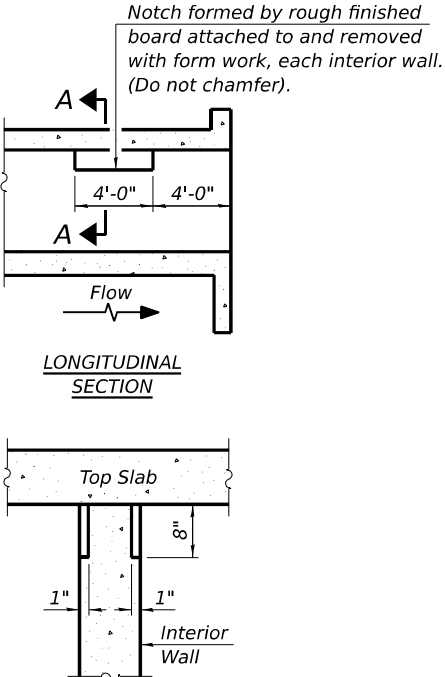
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	26
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Rock Fill shall be capped according to the Rock Fill - Foundation Special Provision. The cost of the capping material shall be included in the pay item for Rock Fill - Foundation.



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT



PHOEBE NESTING SITE DETAILS
(Downstream End Only)

STA. 698+91.06
BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. Rt. 1909 SEC. 30G(B-1)
LOADING HL-93
STR. NO. 091-2027

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	240
Stone Riprap, Class A5	Sq. Yd.	294
Filter Fabric	Sq. Yd.	294
Removal of Existing Structures No. 1	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	37
Reinforcement Bars	Pound	48,450
Reinforcement Bars, Epoxy Coated	Pound	770
Bar Splicers	Each	134
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	702
Geotextile Retaining Wall	Sq. Ft.	74
Concrete Box Culverts	Cu. Yd.	241.1
* Rock Fill - Foundation	Ton	60
* Temporary Support System	L. Sum	1
Porous Granular Embankment	Cu. Yd.	396

* Special Provisions

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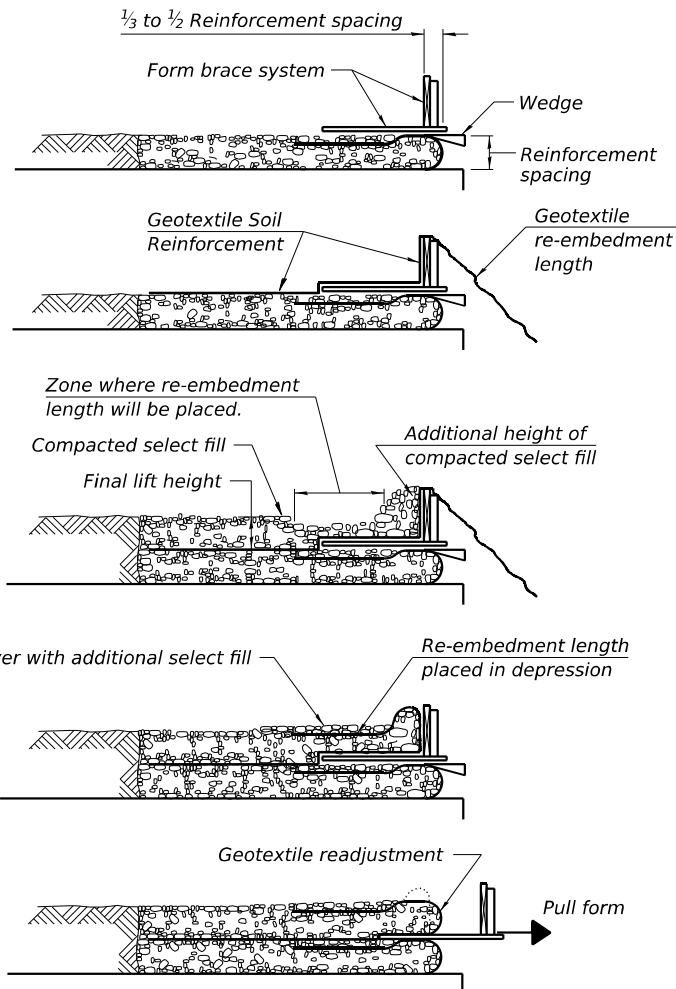
KT KUHN & TRELLO
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-629-0044
Professional Design Firm No. 284-006516

USER NAME =	DESIGNED - PRR	REVISED -
	CHECKED - PDA	REVISED -
PLOT SCALE =	DRAWN - MMY/JDC	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 091-2027
SHEET 2 OF 10 SHEETS

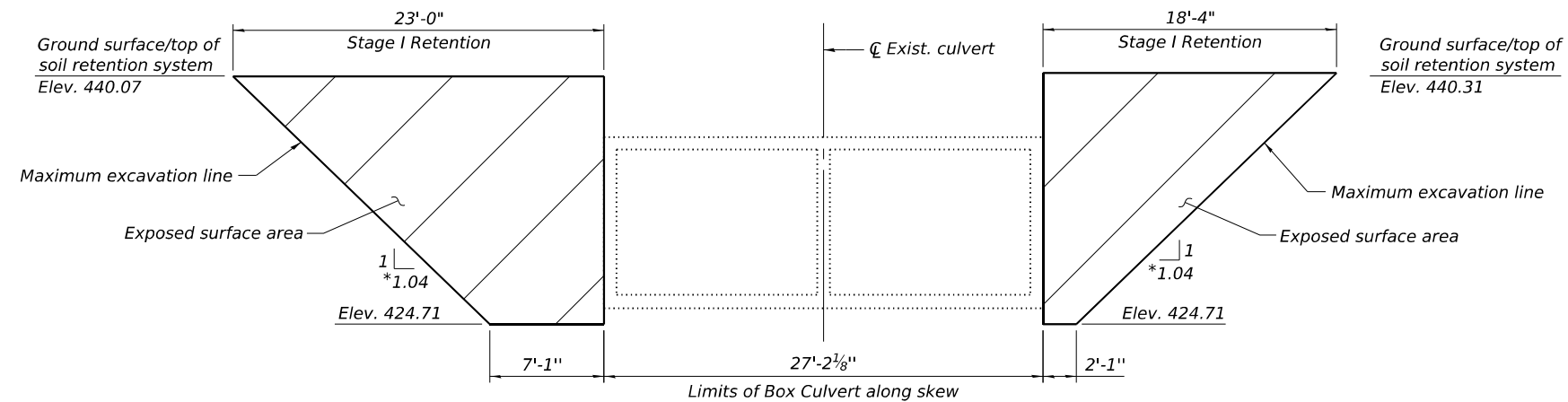
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1909	30G(B-1)	UNION	114	27
			CONTRACT NO. 78A13	
		ILLINOIS	FED. AID PROJECT	



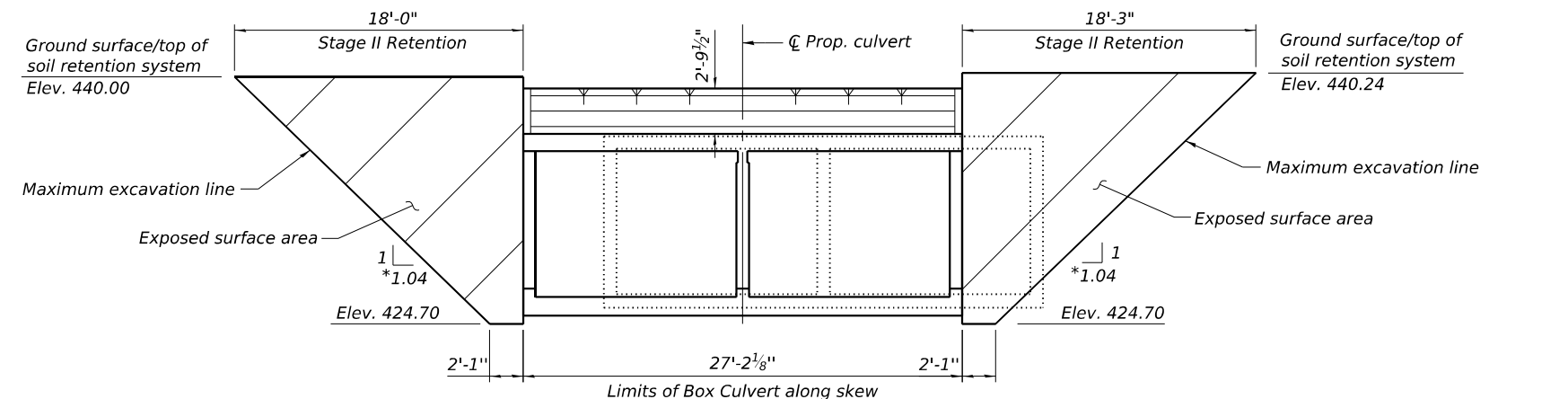
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact select fill material in lifts to final lift height, create (± 3 ") depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (± 3 ") to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 24 lb./in. as determined by the procedure described in the Standard Specifications. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



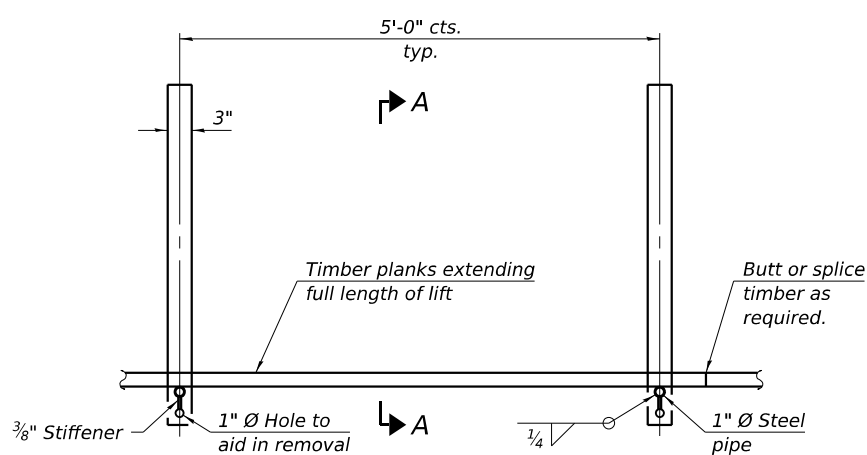
STAGE I RETENTION SYSTEM (Looking East)



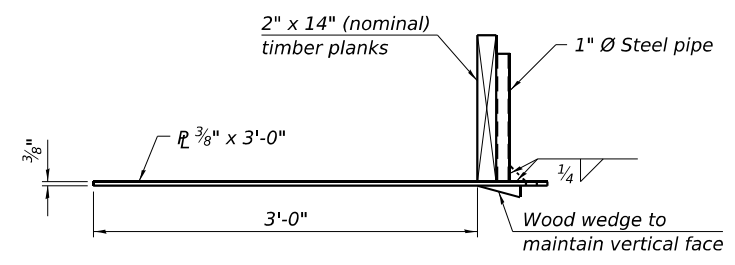
STAGE II RETENTION SYSTEM (Looking East)

*Excavation shown is along the face of the Temporary Soil Retention System. The 1:1.04 slope shown is consistent with the 1:1 construction excavation.

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.
Elevations and dimensions are approximate based on plan data. Exact elevations and dimensions required shall be field verified by the Contractor.



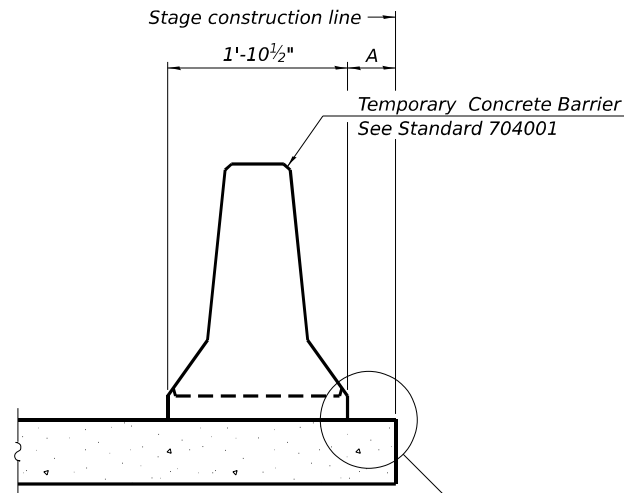
GEOTEXTILE FORM BRACE DETAIL



Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

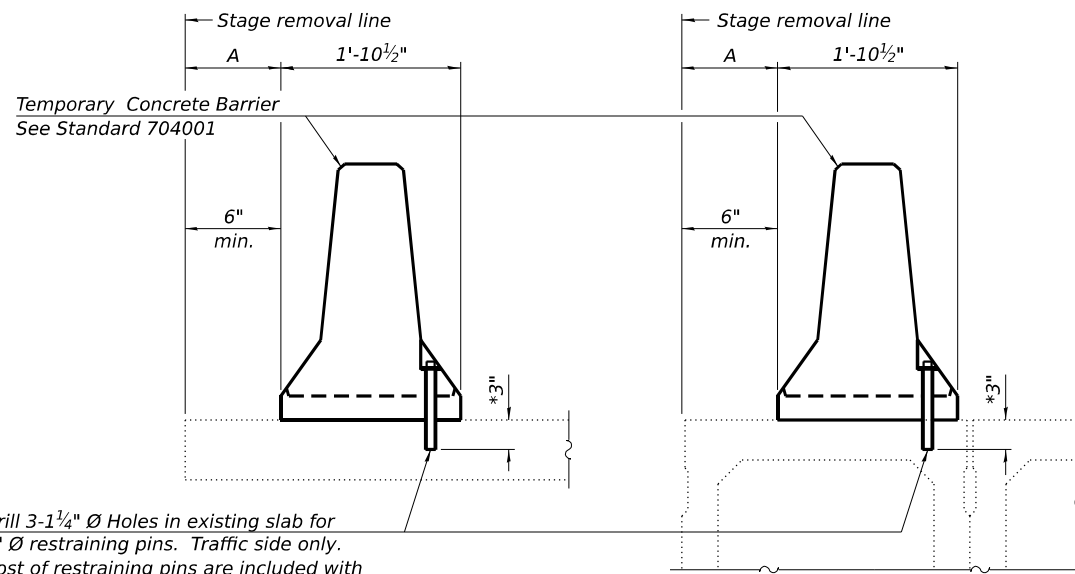
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	USER NAME =	DESIGNED - PRR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 091-2027	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - PDA	REVISED -			1909	30G(B-1)	UNION	114	29
	PLOT DATE =	DRAWN - MMY/JDC	REVISED -			CONTRACT NO. 78A13				
	CHECKED - MJT	REVISED -	SHEET 4 OF 10 SHEETS			ILLINOIS FED. AID PROJECT				



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

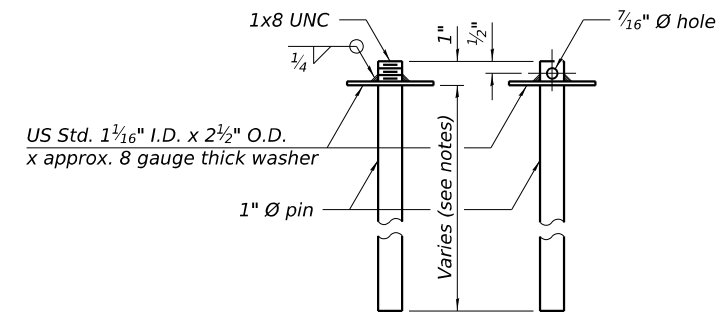
NEW SLAB OR NEW DECK BEAM



Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

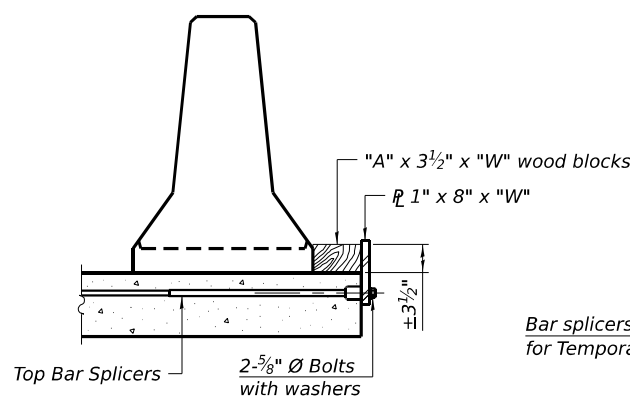
EXISTING DECK BEAM



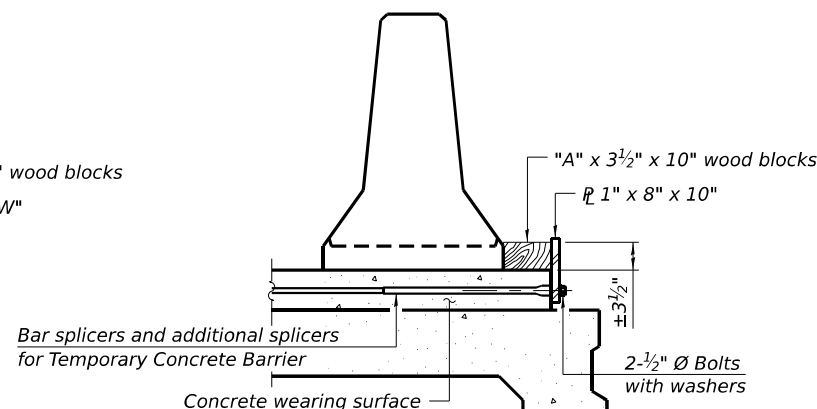
RESTRAINING PIN

* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

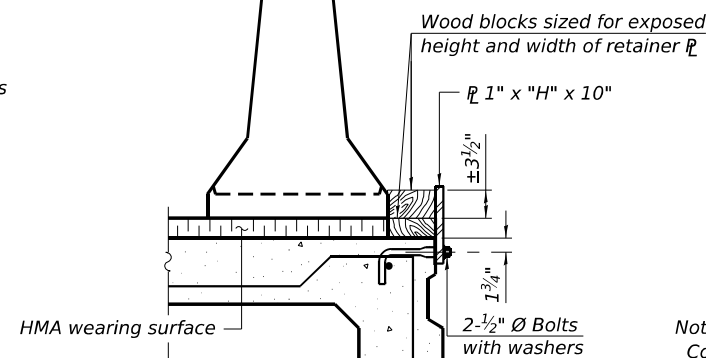
SECTIONS THRU SLAB OR DECK BEAM



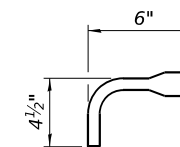
DETAIL I



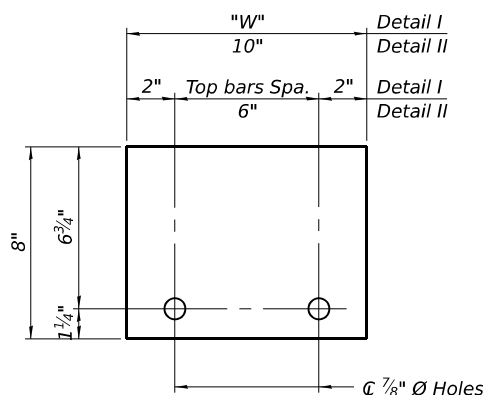
DETAIL II



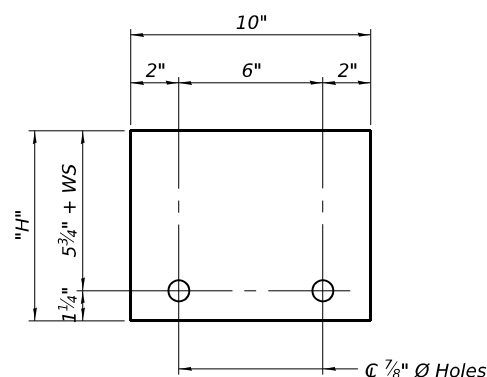
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W" (Detail I and II)



STEEL RETAINER R 1" x "H" x 10" (Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

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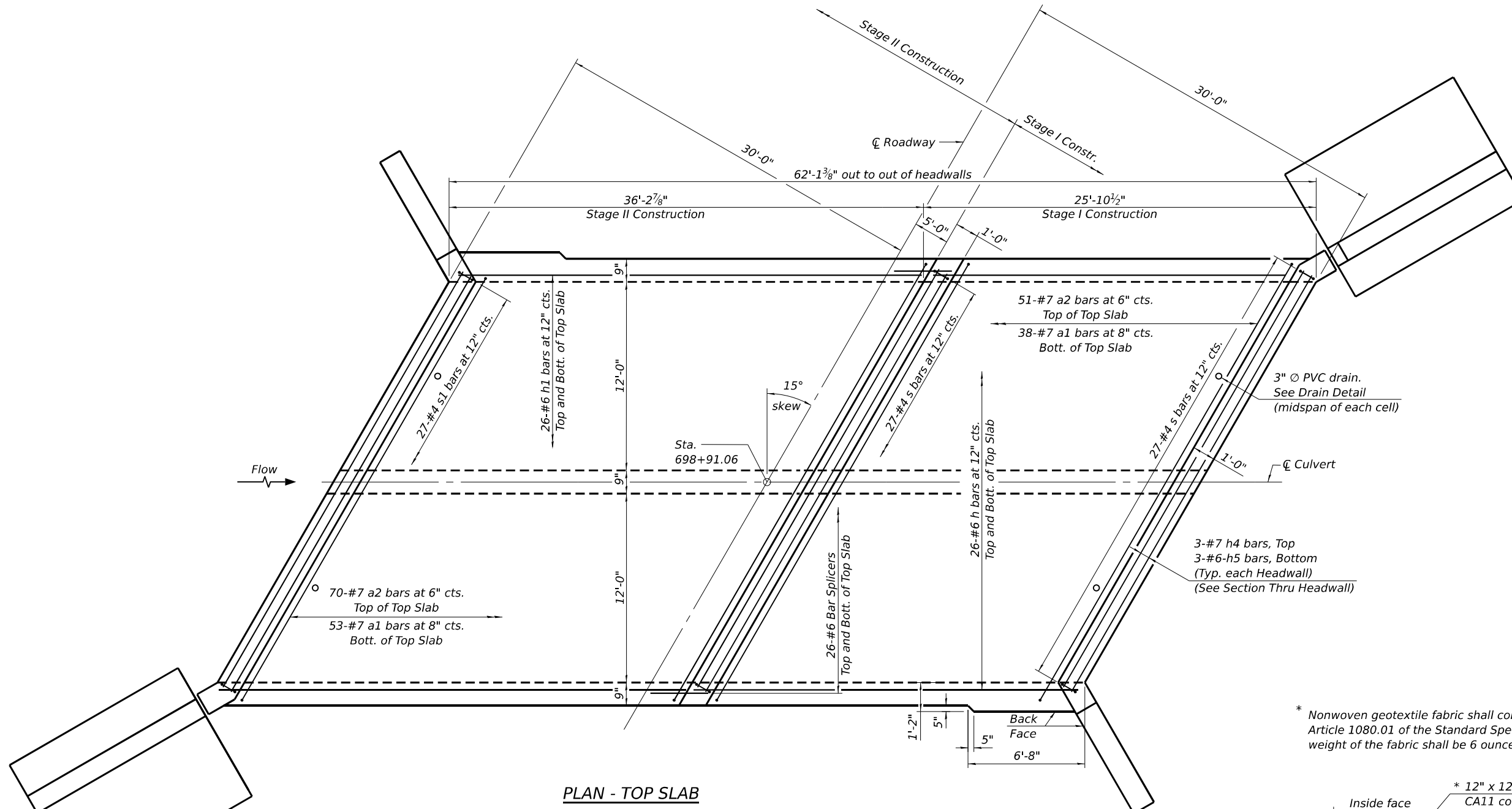
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PLOT DATE =	DRAWN - MMY/JDC	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
 STRUCTURE NO. 091-2027

SHEET 5 OF 10 SHEETS

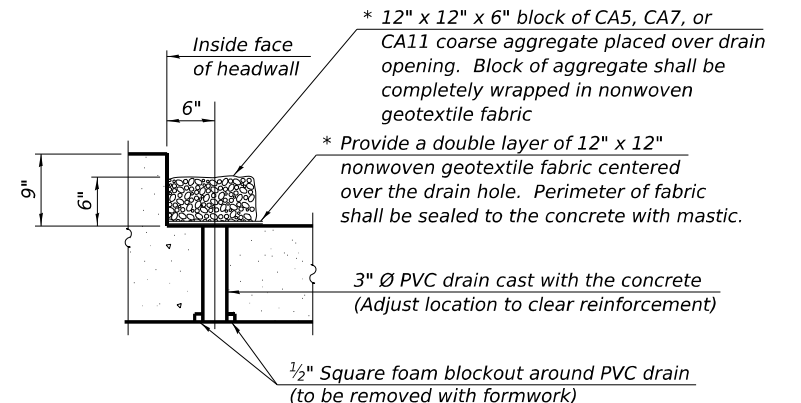
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	30
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



PLAN - TOP SLAB

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.

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

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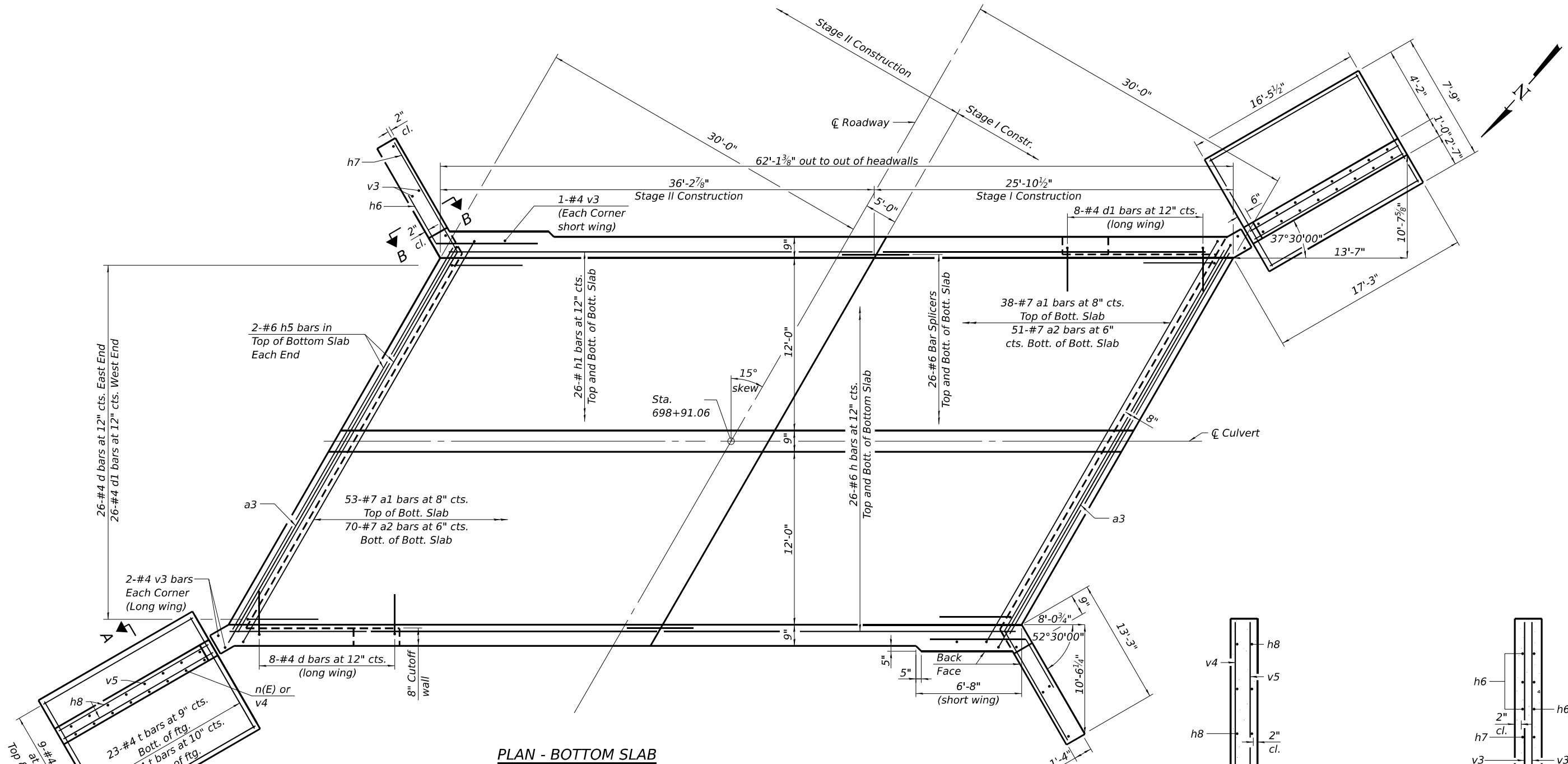
KT
KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 2nd Floor
 Springfield, IL 62761
 Phone: 217-629-0044
 Professional Design Firm No. 284-006516

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PLOT DATE =	DRAWN - MMY/JDC	REVISED -
	CHECKED - MJT	REVISED -

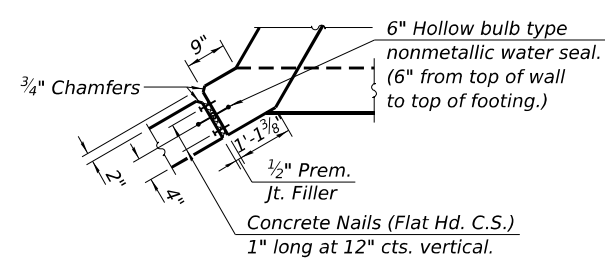
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - TOP SLAB PLAN
STRUCTURE NO. 091-2027
 SHEET 6 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	31
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

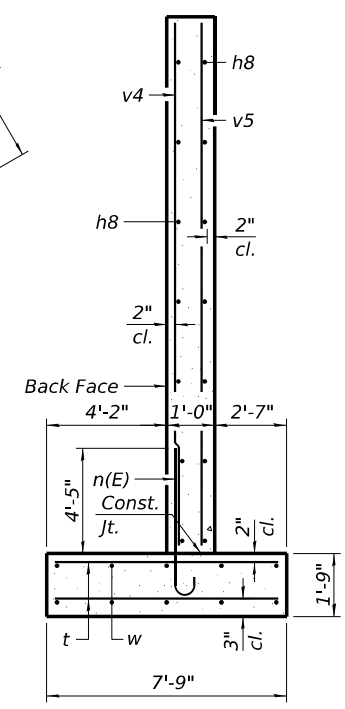


PLAN - BOTTOM SLAB



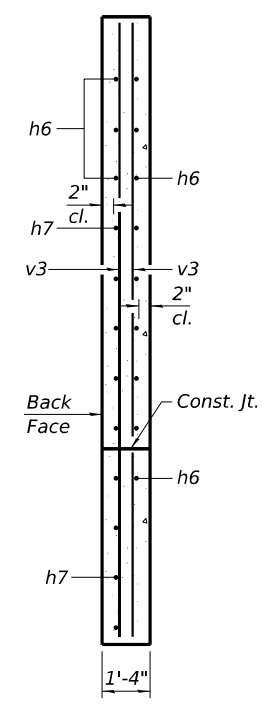
CORNER DETAIL - LONG WINGS

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.



SECTION A-A

(Max. Applied Service Bearing Pressure = 2.84 ksf)



SECTION B-B

MODEL: Sheet
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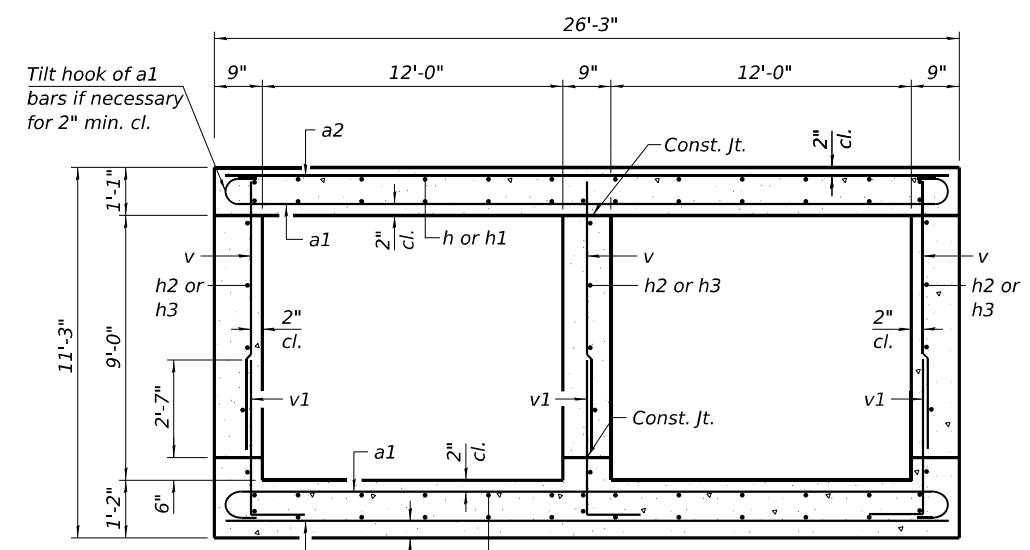
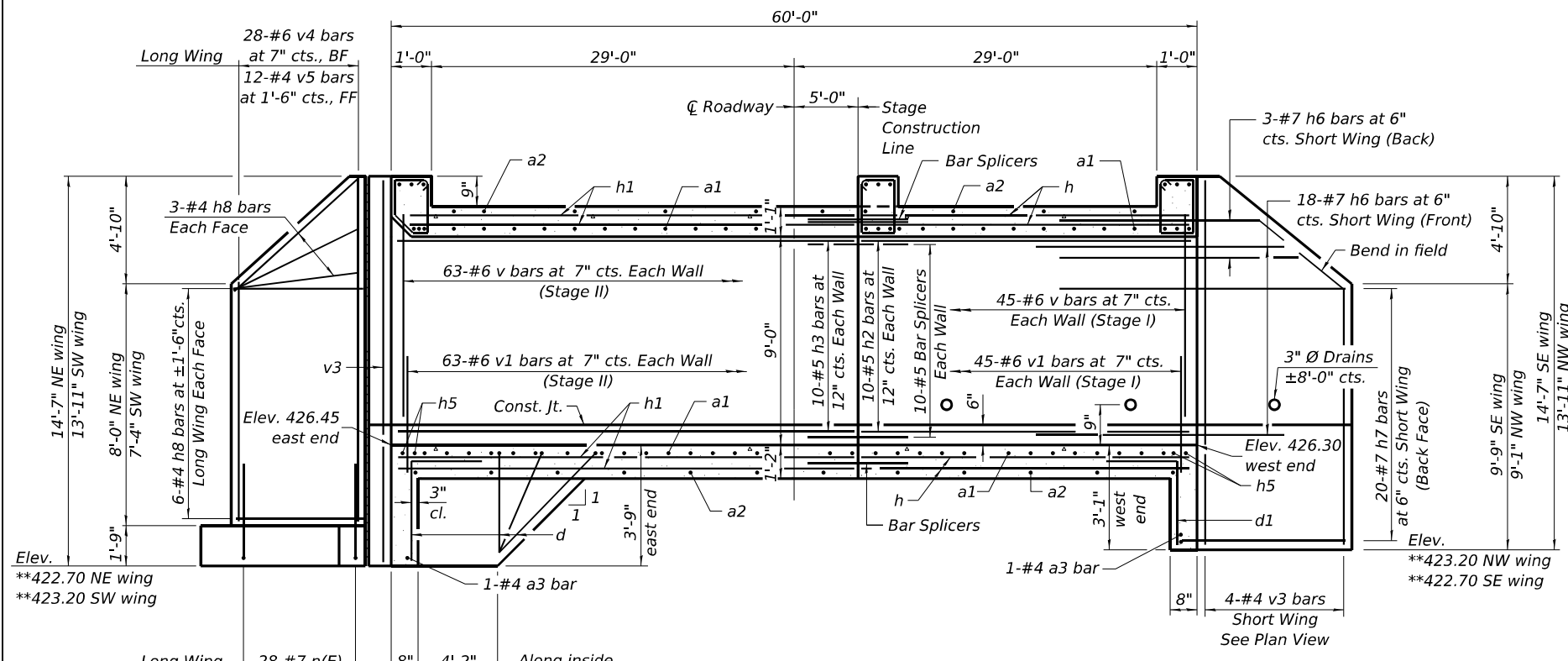
KT
KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 2nd Floor
 Springfield, IL 62763
 Phone: 217.689.0044
 Professional Design Firm No. 284-006516

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PLOT SCALE =	CHECKED - PDA	REVISED -
PLOT DATE =	DRAWN - MMY/JDC	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - BOTTOM SLAB PLAN
STRUCTURE NO. 091-2027
 SHEET 7 OF 10 SHEETS

F.A.S. RTE. 1909	SECTION 30G(B-1)	COUNTY UNION	TOTAL SHEETS 114	SHEET NO. 32
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



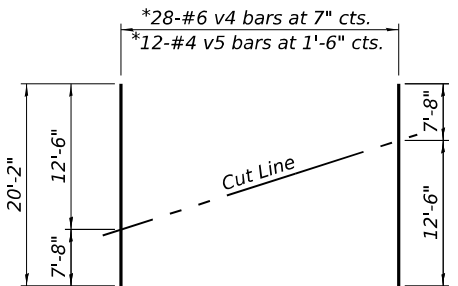
SECTION THRU BARREL

REINF. - T-TYPE WING

LONGITUDINAL SECTION
(Dimensions at Rt. L's to C Roadway)

REINF. - HORIZONTAL WING

Notes:
At the Contractor's option, a longer v1 bar may be ordered to replace the v bar.
No reduction in quantities shall be made for this substitution.

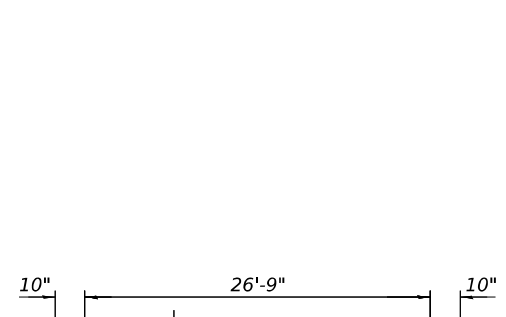


FIELD CUTTING DIAGRAM

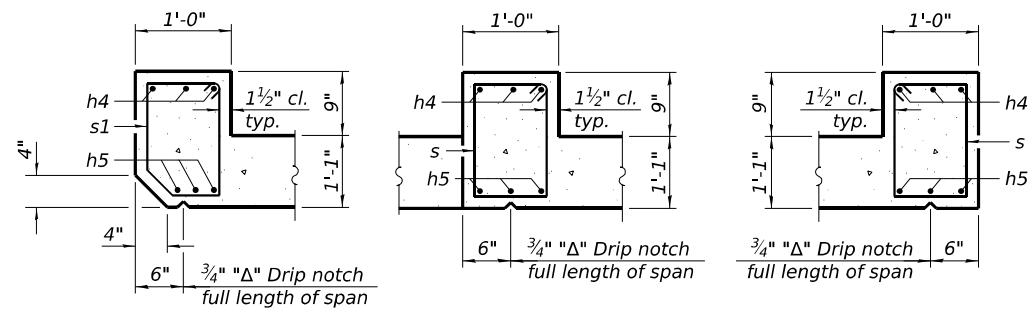
Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.
*Bars for shorter wing will need to be cut to fit.

BILL OF MATERIAL

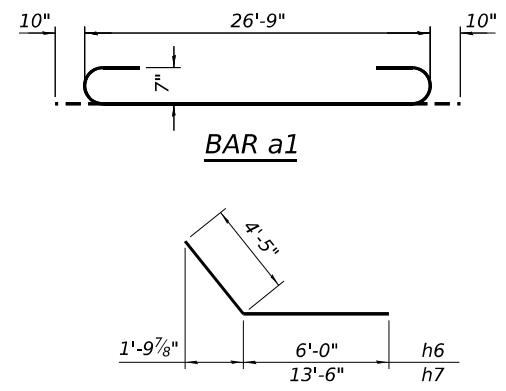
Bar	No.	Size	Length	Shape
a1	182	#7	28'-5"	U
a2	242	#7	26'-10"	—
a3	2	#4	26'-10"	—
d	34	#4	5'-1"	L
d1	34	#4	4'-4"	L
h	104	#6	25'-6"	—
h1	104	#6	35'-6"	—
h2	30	#5	25'-6"	—
h3	30	#5	35'-6"	—
h4	9	#7	26'-4"	—
h5	13	#6	26'-4"	—
h6	42	#7	10'-5"	—
h7	40	#7	17'-11"	—
h8	36	#4	15'-9"	—
n(E)	56	#7	6'-9"	—
s	54	#4	5'-5"	U
s1	27	#4	5'-3"	U
t	86	#4	7'-5"	—
v	324	#6	9'-3"	—
v1	324	#6	5'-0"	L
v3	14	#4	14'-3"	—
v4	28	#6	20'-2"	—
v5	12	#4	20'-2"	—
w	36	#4	16'-2"	—
Concrete Box Culverts			Cu. Yd.	241.1
Reinforcement Bars			Pound	48,450
Reinforcement Bars, Epoxy Coated			Pound	770



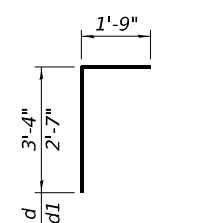
BAR a1



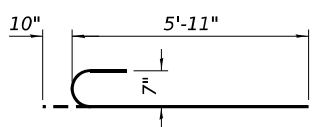
SECTION THRU HEADWALL



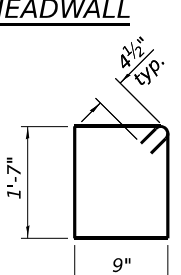
BARS h6 & h7



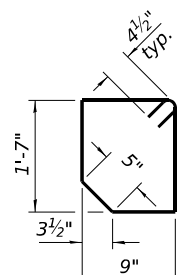
BARS d & d1



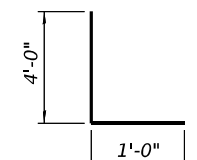
BAR n(E)



BAR s



BAR s1



BAR v1

MODEL: Sheet
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A Limited Liability Company
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Professional Design Firm No. 284-006516

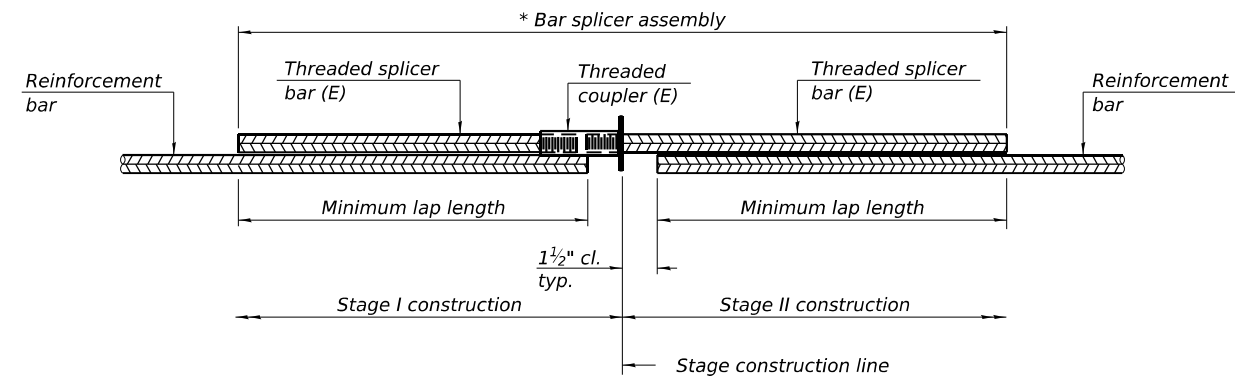
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PLOT DATE =	DRAWN - MMY/JDC	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 091-2027

SHEET 8 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	33
CONTRACT NO. 78A13			ILLINOIS FED. AID PROJECT	

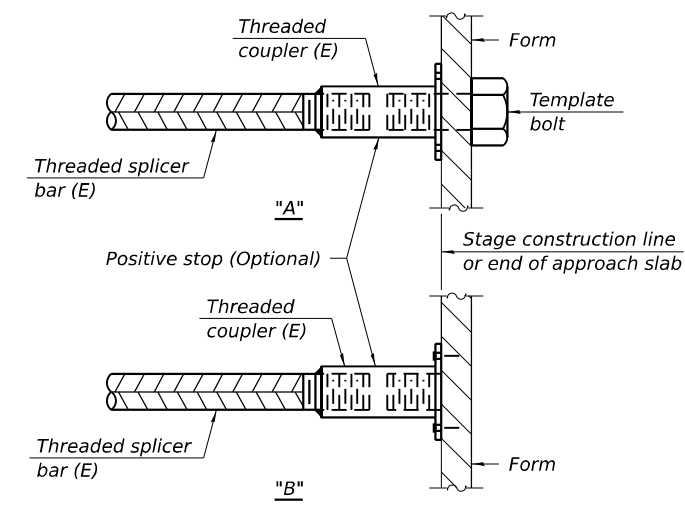


STANDARD BAR SPLICER ASSEMBLY PLAN
 Only bar splicer assemblies as presented on the approved QPL list may be used.

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

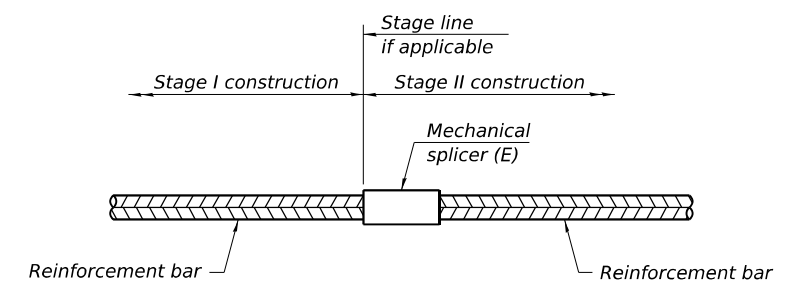
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top slab	#6	52	3'-4"
Bottom slab	#6	52	3'-4"
N. Exterior wall	#5	10	2'-9"
Interior wall	#5	10	2'-9"
S. Exterior wall	#5	10	2'-9"



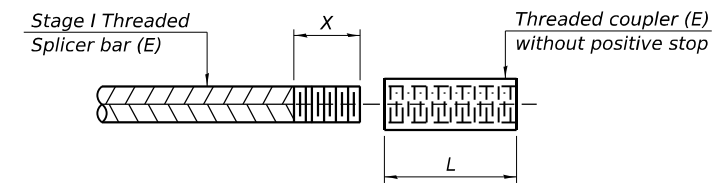
INSTALLATION AND SETTING METHODS

"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



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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.

MODEL: Sheet
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BSD-1

4-4-2025



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	CHECKED - PDA	REVISED -
PLOT SCALE =	DRAWN - MMY/JDC	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 091-2027**

SHEET 9 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	34
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

Assumed elevations modified per survey by KTCE 11/25/25

ILLINOIS DEPARTMENT OF TRANSPORTATION **Bridge Foundation**
District Nine Materials **Boring Log**

ILL 127 Over Stream Sheet 1 of 1
Route: ILL 127 Structure Number: 091-2005 Date: 1/18/2006
Section Bored By: Bryan Keller
County: Union Location: 1.2 MI N. ILL 146 Checked By: Rob Graeff

Boring No 1-S Station 699+30 Offset 12' RT CL Ground Surface 440.2 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: 427.1 Ground Water Elevation when Drilling 423.2 At Completion	At: Hrs:	D E P T H	B L O W	Qu tsf	W%
Bituminous Shoulder										
438.7					413.2					
Very stiff, moist, brown, Clay A7-6 with Gravel		3	6	2.1B	29					
		8								
435.7										
Stiff, very moist, brown, Clay A7-6 with Gravel and Boulders		5.0	3	1.2B	21					
		2								
		2								
		4	1.3B	16						
		3								
430.7										
Stiff, very moist, grey, Silty Clay Loam A-6 with Gravel		10.0	2	1.5P	22					
		5								
428.2										
Medium, wet, grey, Sandy Gravel with Silty Clay Layers		2	5		21					
		6								
		15.0	2							
		4								
		2								
423.2										
Cored from 17.0 ft to 22.0 ft. Hard, dry, grey, Limestone 63% Recovery 60% RQD			100/2"							
418.2										
Cored from 22.0 ft to 27.0 ft Hard, dry, grey, Limestone 93% Recovery 67% RQD										
25.0					50.0					

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Assumed elevations modified per survey by KTCE 11/25/25

ILLINOIS DEPARTMENT OF TRANSPORTATION **Bridge Foundation**
District Nine Materials **Boring Log**

ILL 127 Over Stream Sheet 1 of 1
Route: ILL 127 Structure Number: 091-2005 Date: 1/18/2006
Section Bored By: Bryan Keller
County: Union Location: 1.2 MI N. ILL 146 Checked By: Rob Graeff

Boring No 2-S Station 698+52 Offset 12' IT CL Ground Surface 439.7 Ft	D E P T H	B L O W	Qu tsf	W%	Surf Wat Elev: 427.0 Ground Water Elevation when Drilling 426.7 At Completion 427.7	At: Hrs:	D E P T H	B L O W	Qu tsf	W%
Bituminous Shoulder										
438.2										
Very stiff, very moist, brown, Silty Clay Loam A-6 with Gravel		3	8	2.1B	22					
		5								
435.2										
Stiff, very moist, brown, Silty Clay Loam A-6 with Gravel		5.0	1	1.3P	20					
		4								
		2								
432.7										
Very stiff, very moist, grey, Silt Loam to Silty Clay Loam A-6		3	6	2.2B	22					
		4								
430.2										
Medium, very moist to wet, grey, Silty Clay Loam A 6		10.0	WH	0.6B	27					
		1								
		1								
427.7										
Loose, wet, grey, Sandy Gravel		3	4		22					
		4								
		4								
		15.0	3							
		4								
		7								
425.2										
Medium, wet, grey, Sandy Gravel		15.0	3							
		4								
		7								
		4								
422.7										
Hard, dry, grey, Limestone			100/1"							
20.0					45.0					
Free water observed at 12.0 ft										
20.0										
Elevation referenced to CL of Existing Structure: Elevation = 440.1 ft.										
To convert "N" values to "N60" values multiply by 1.25										
25.0					50.0					

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

MODEL: Sheet
FILE NAME: I:\2023\3044 IDOT D9 - PTB 207-048 - PE HI BB 091-2027\CADData\CADsheets\0912027-78A13-010-Borings.dgn



USER NAME =	DESIGNED - PRR	REVISED -
	CHECKED - PDA	REVISED -
PLOT SCALE =	DRAWN - MMY/JDC	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 091-2027

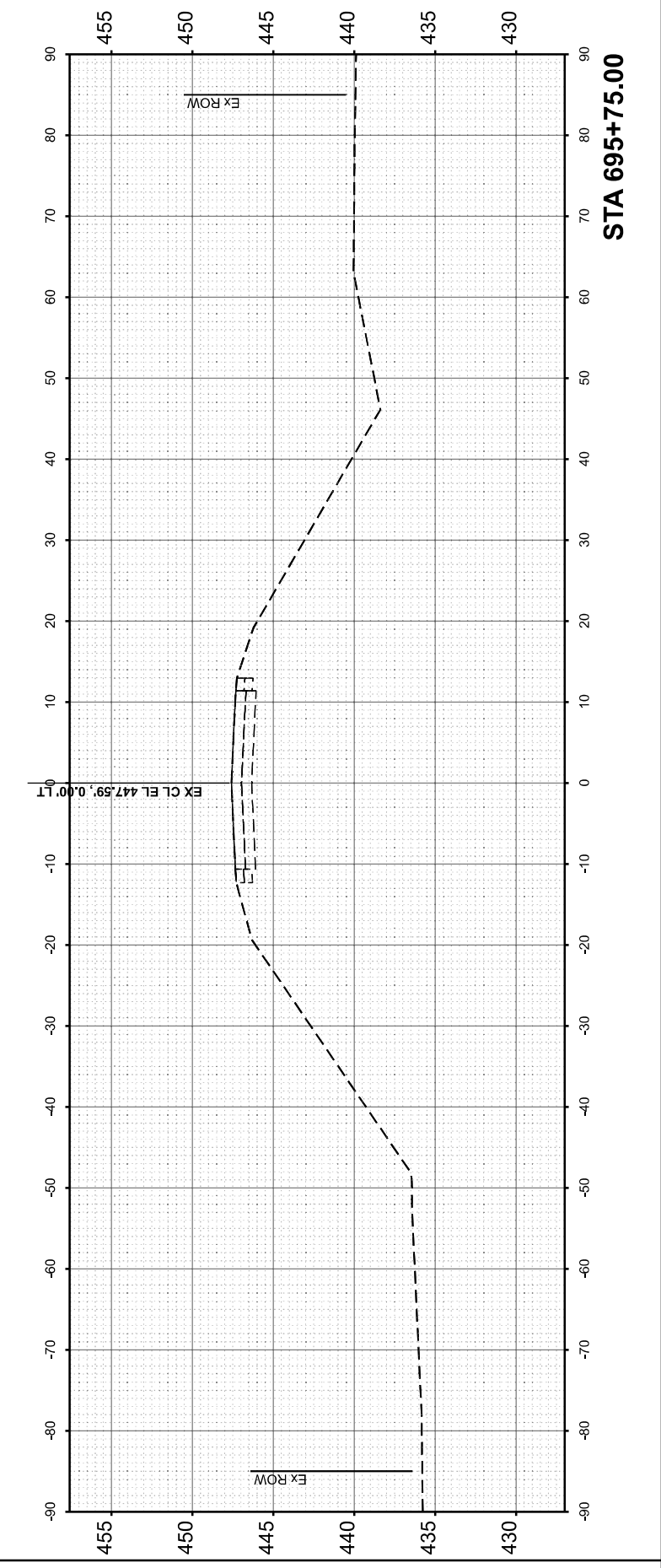
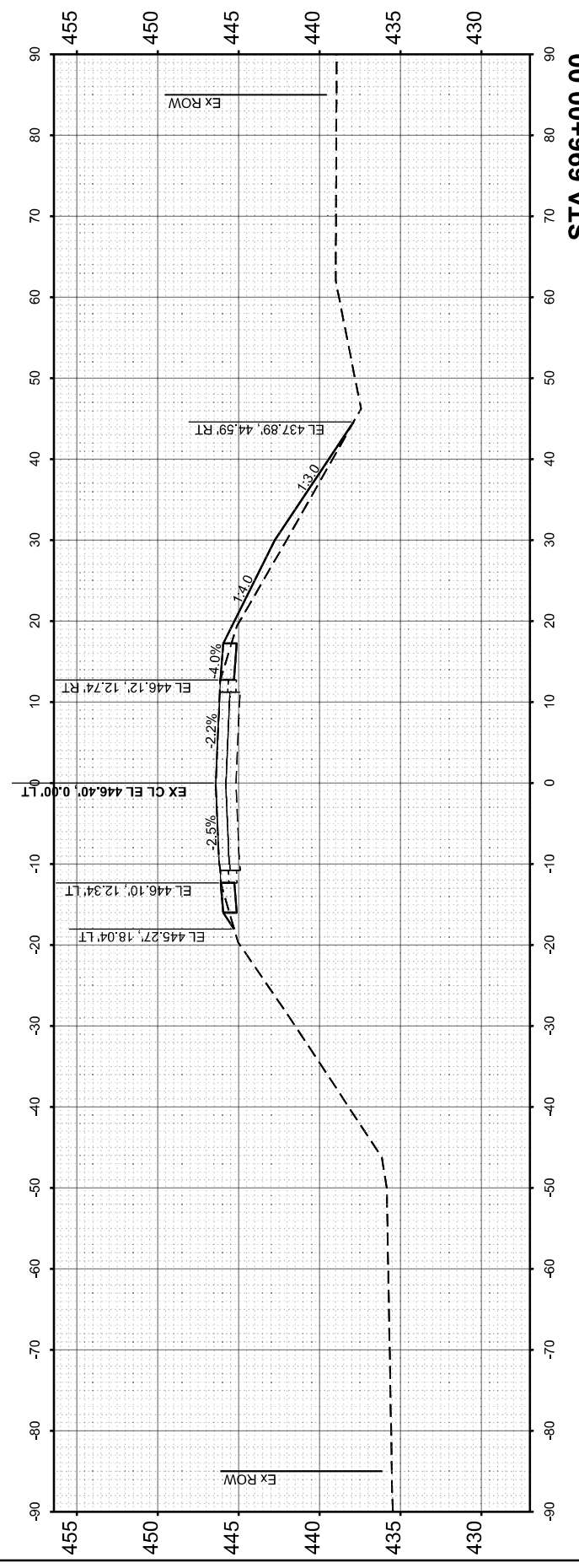
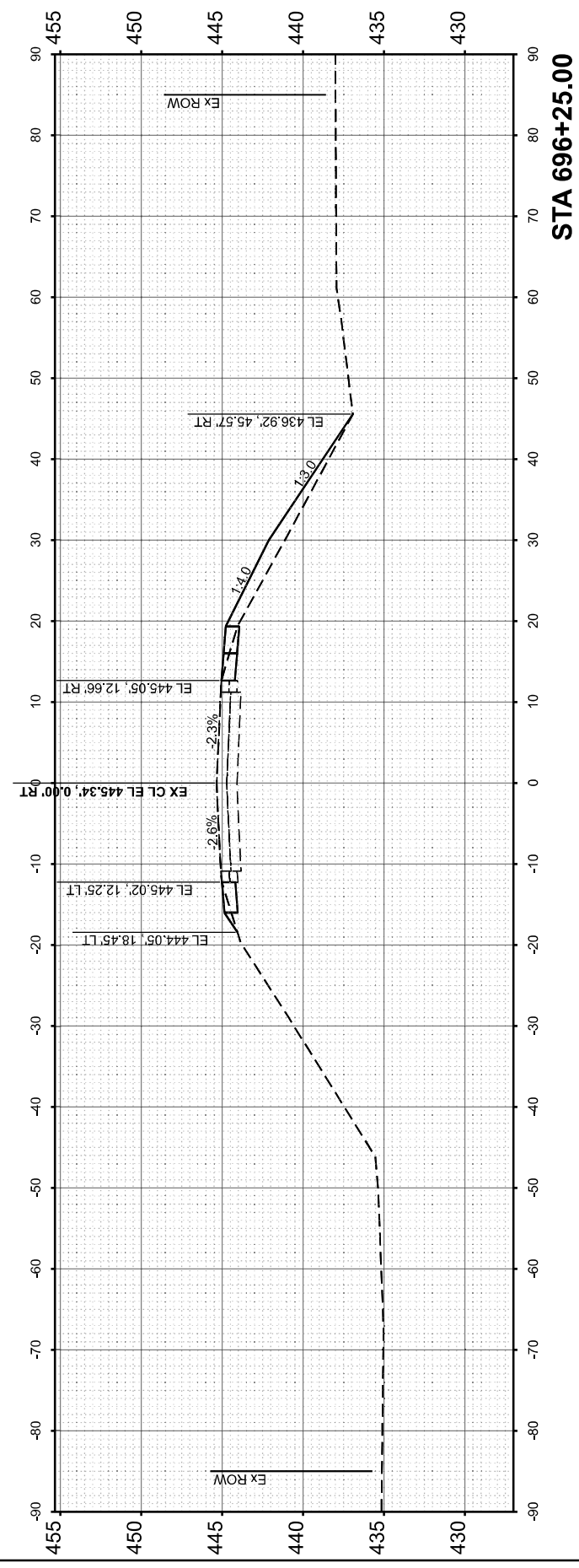
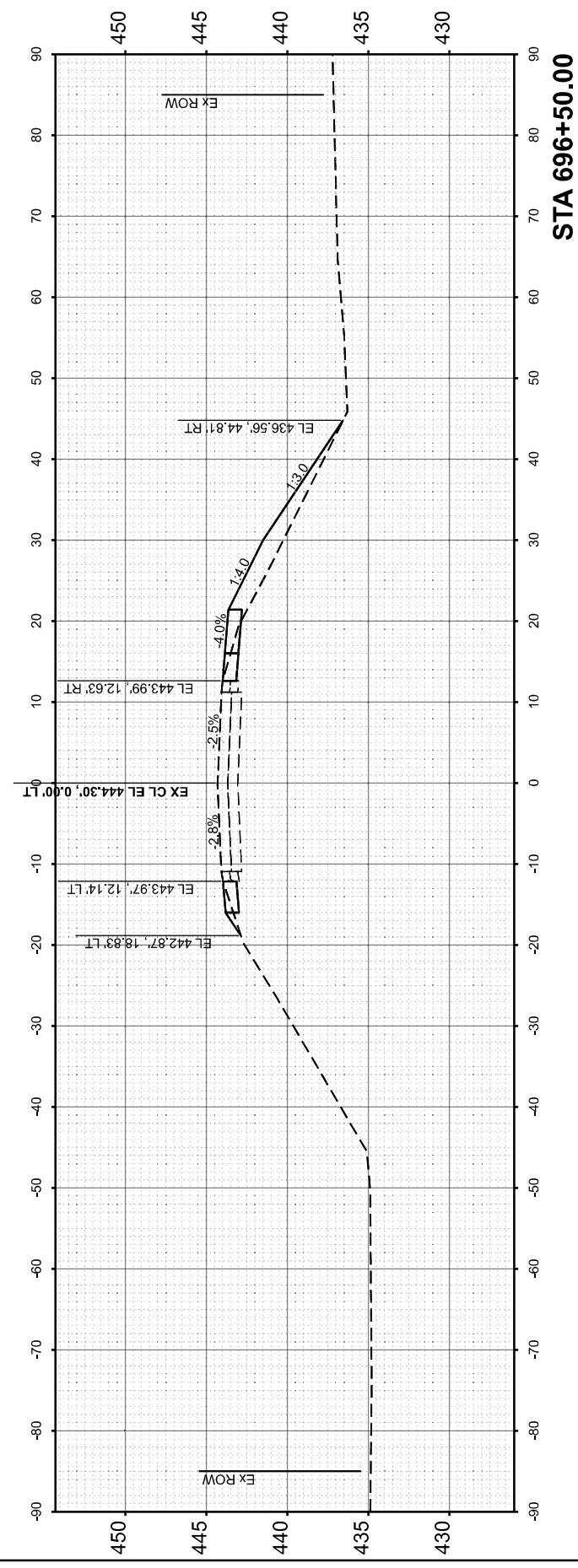
SHEET 10 OF 10 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1909	30G(B-1)	UNION	114	35
CONTRACT NO. 78A13				
		ILLINOIS	FED. AID PROJECT	

FINL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
	AREAS	
	CHECKED	
	AREAS CHECKED	

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	36
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
 *** (30G,104A)(B-1);(13,14A)(CR-1)



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DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/22/26
PLLOT DATE	= 2/5/2026

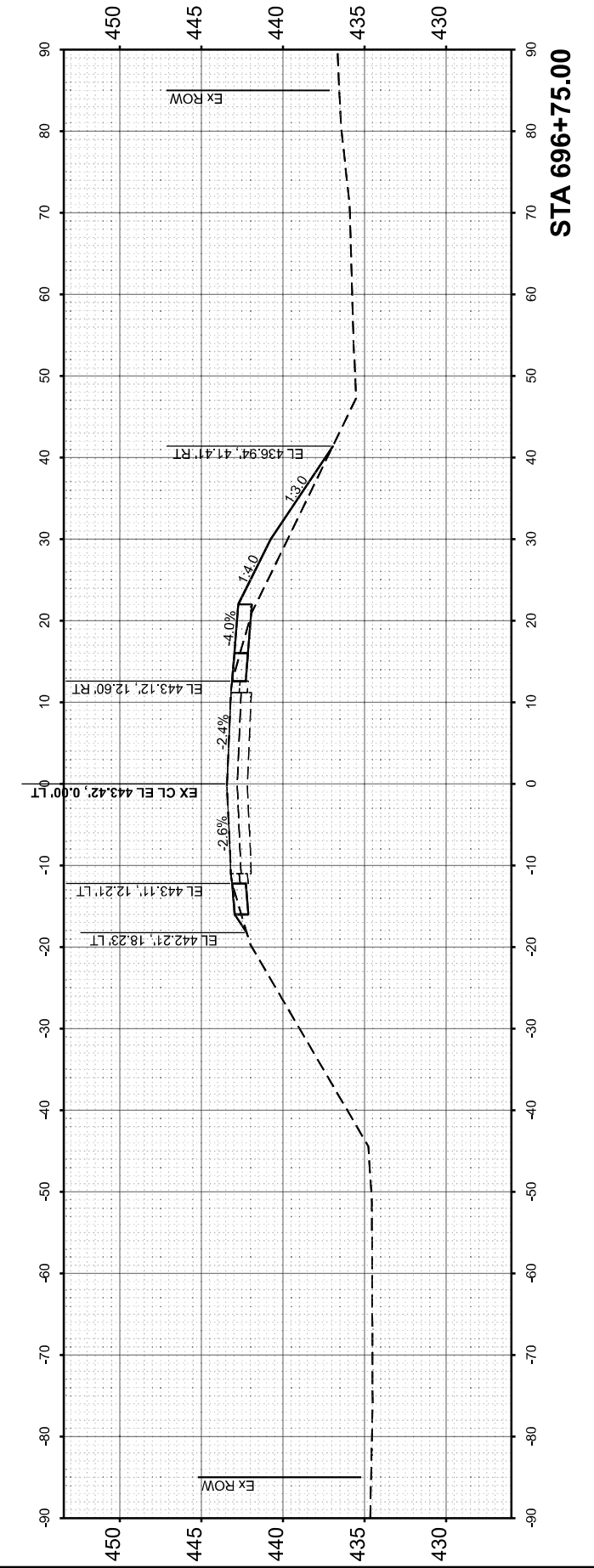
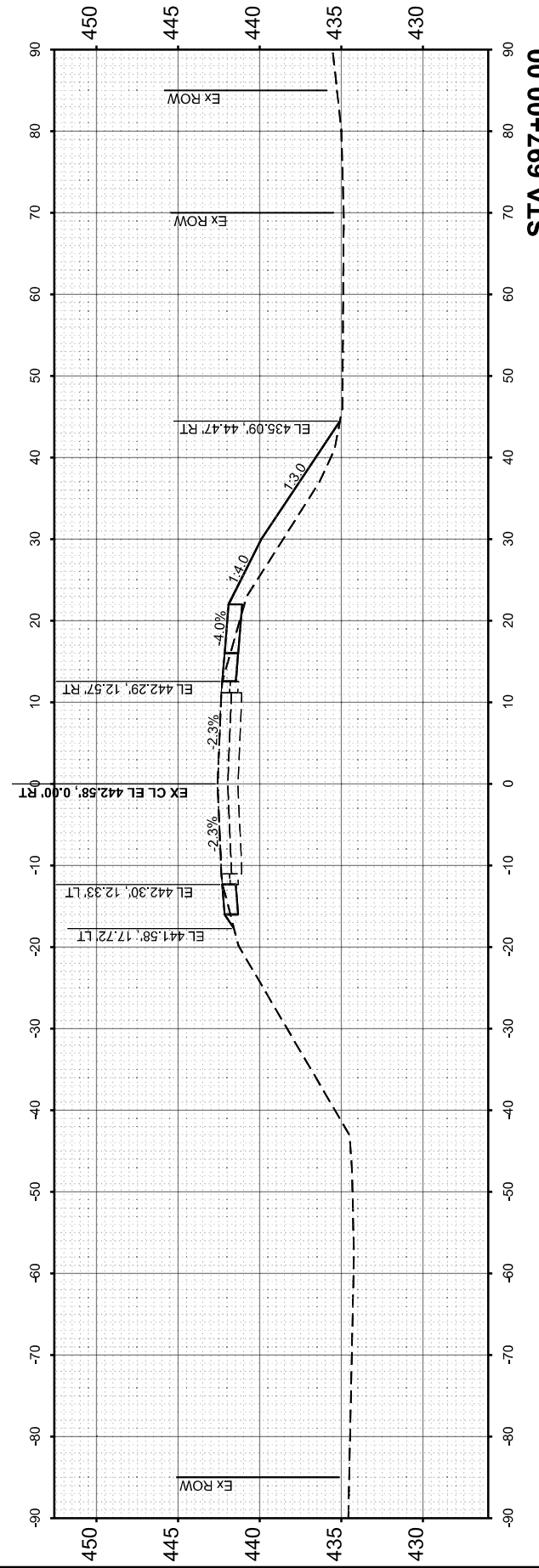
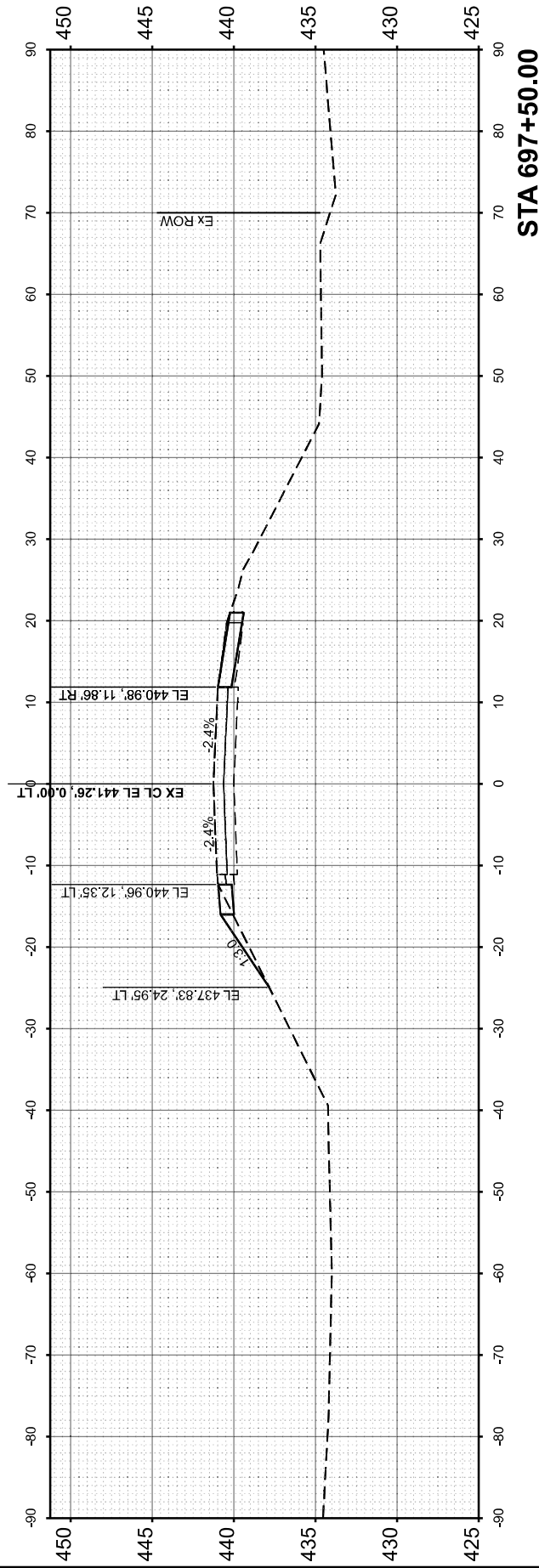
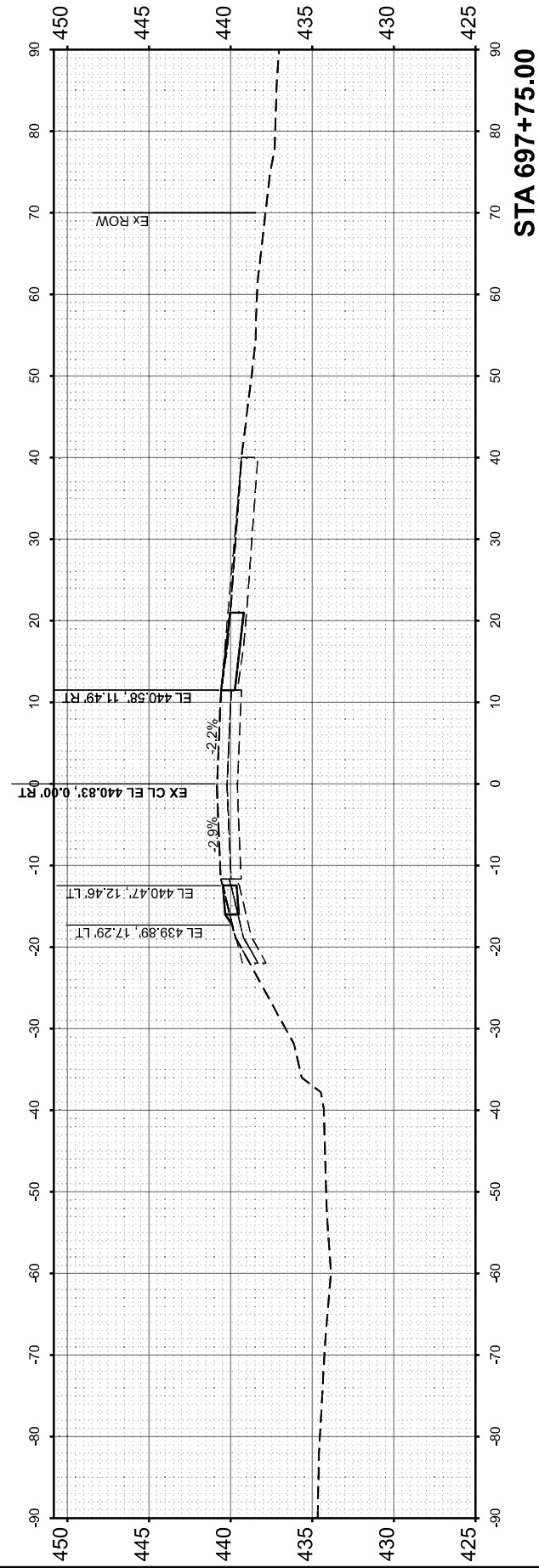
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REVISED	-

Professional Design Firm No. 184-006518

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NO.	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

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

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USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 1/22/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)

SCALE: 1"=10' SHEET 2 OF 14 SHEETS STA. TO STA.

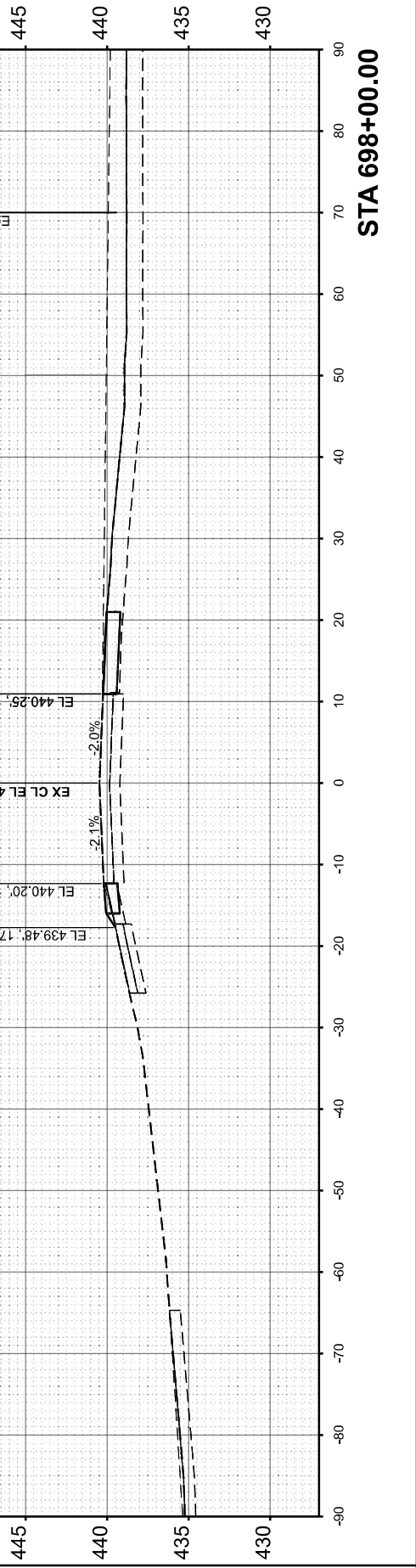
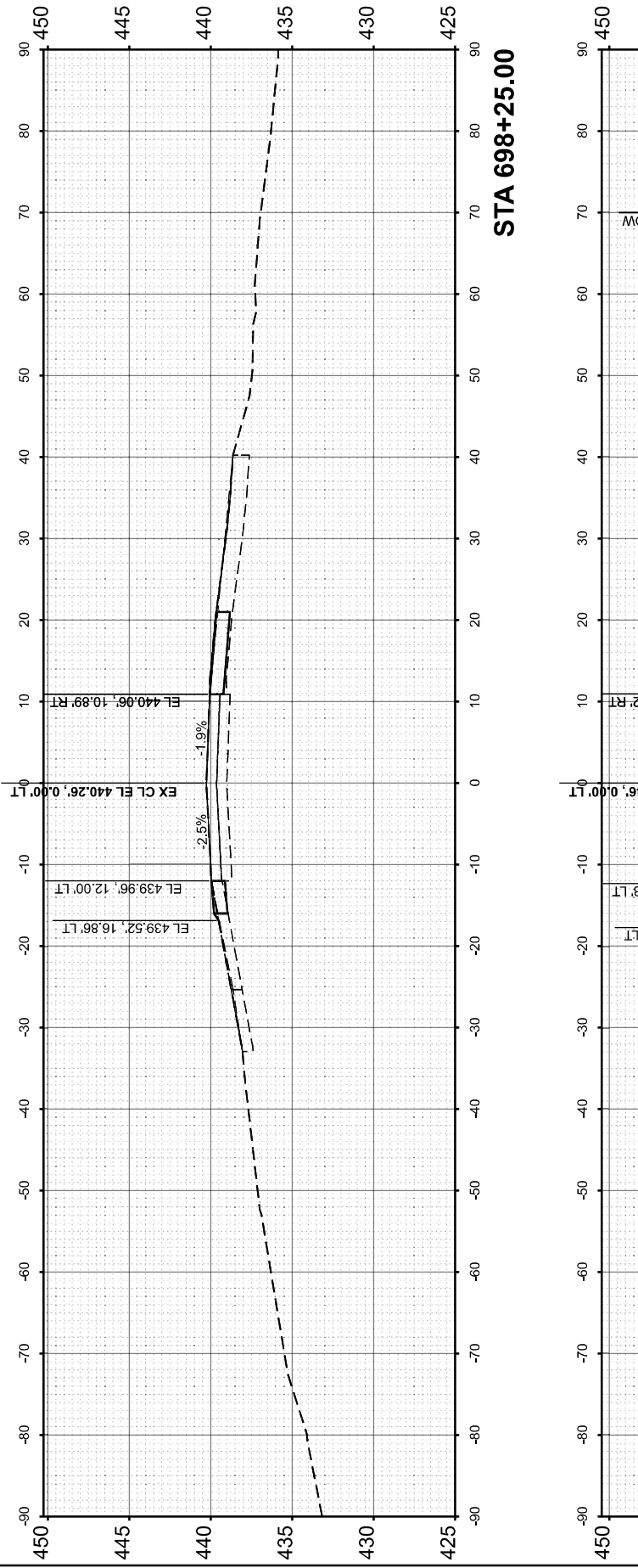
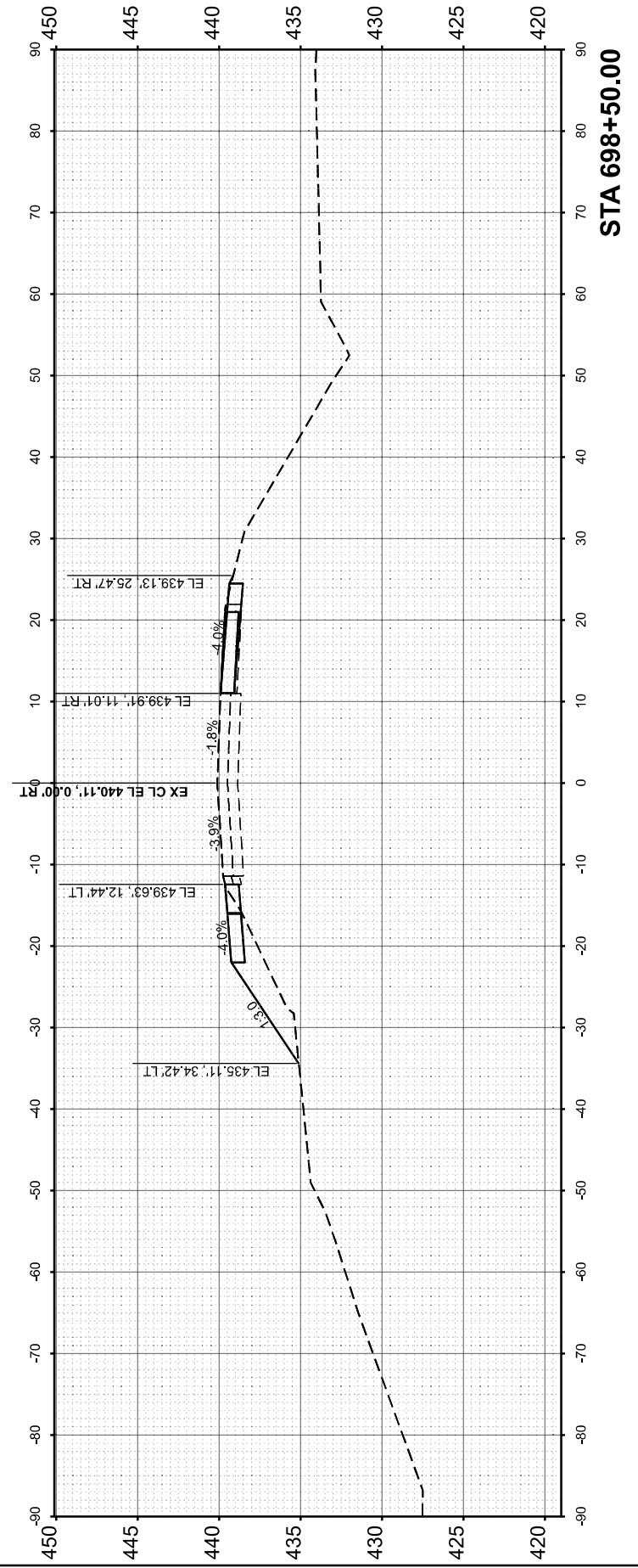
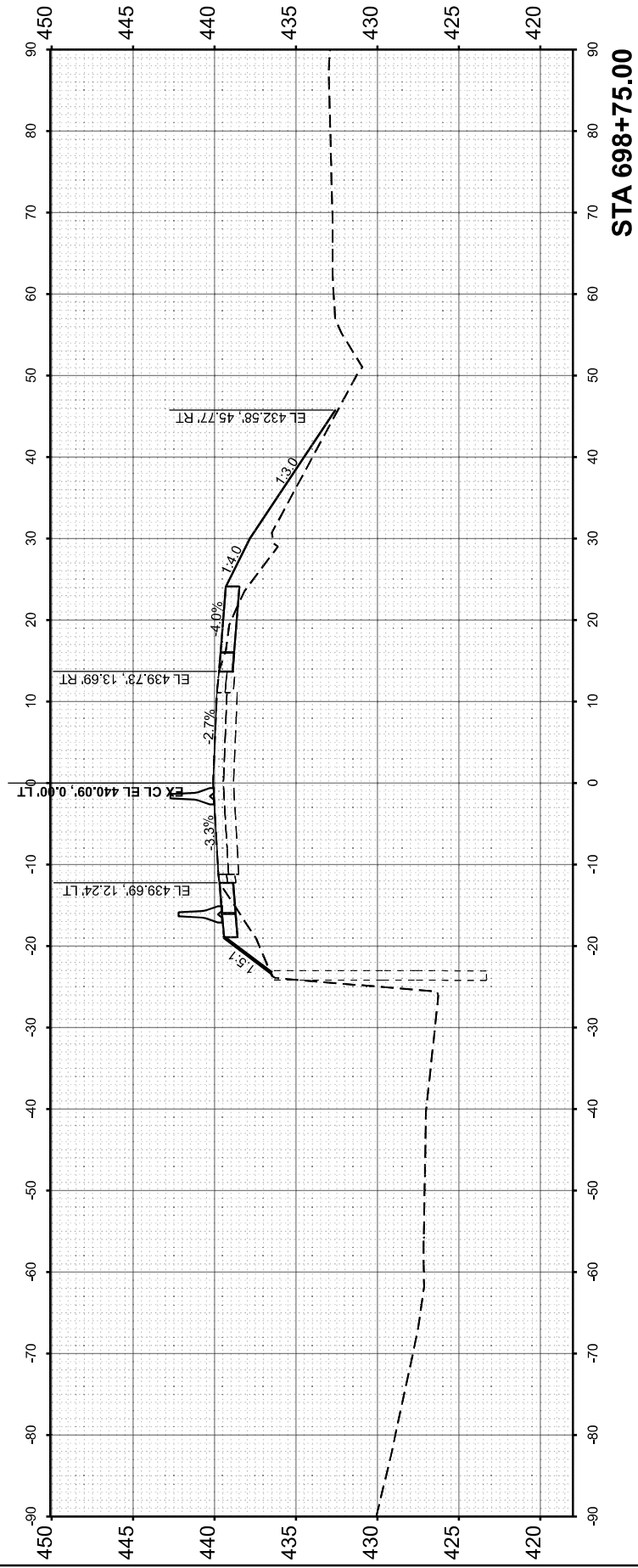
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	37
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

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

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)**

USER NAME	= msutheard	DESIGNED	- JRS	REVISED	-
		DRAWN	- MDS	REVISED	-
		CHECKED	- JRS	REVISED	-
		DATE	- 1/22/26	REVISED	-
PLOT DATE	= 2/19/2026				

SCALE: 1"=10' SHEET 3 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	38	38
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



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

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

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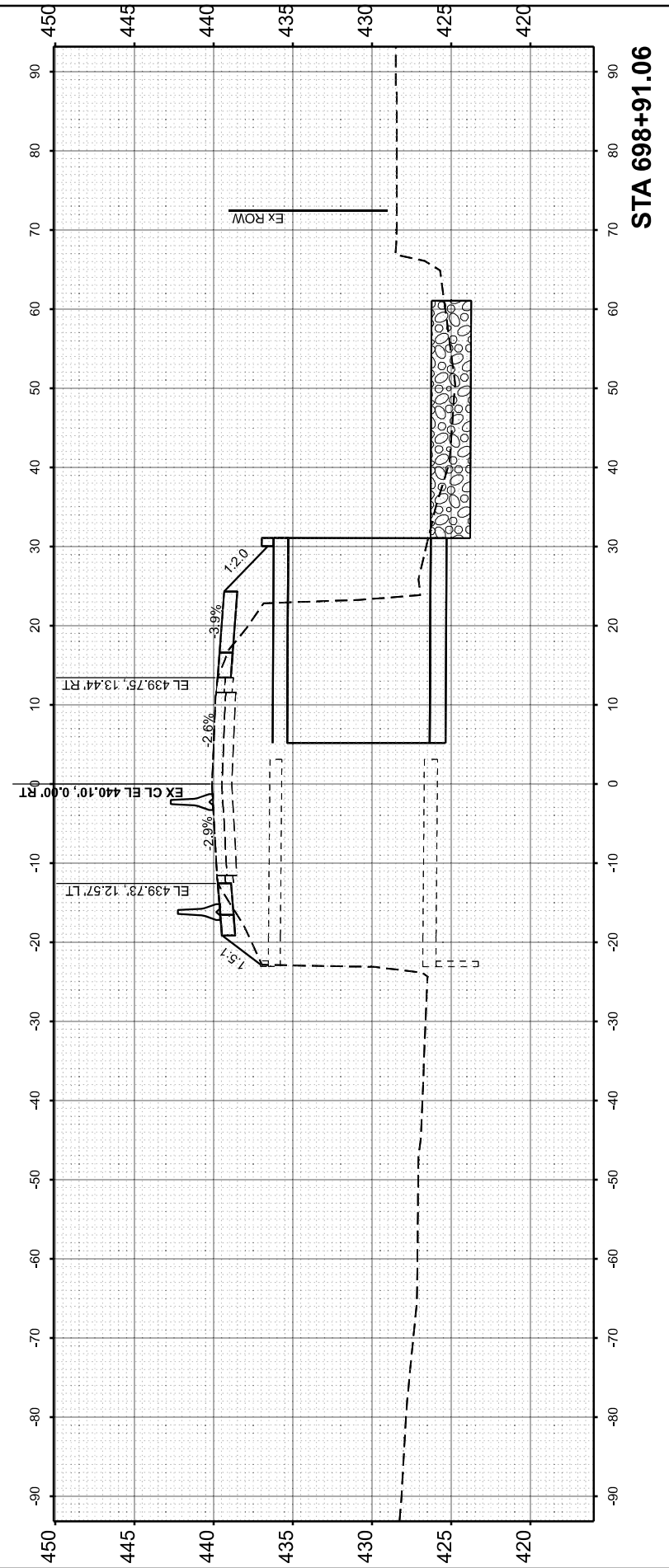
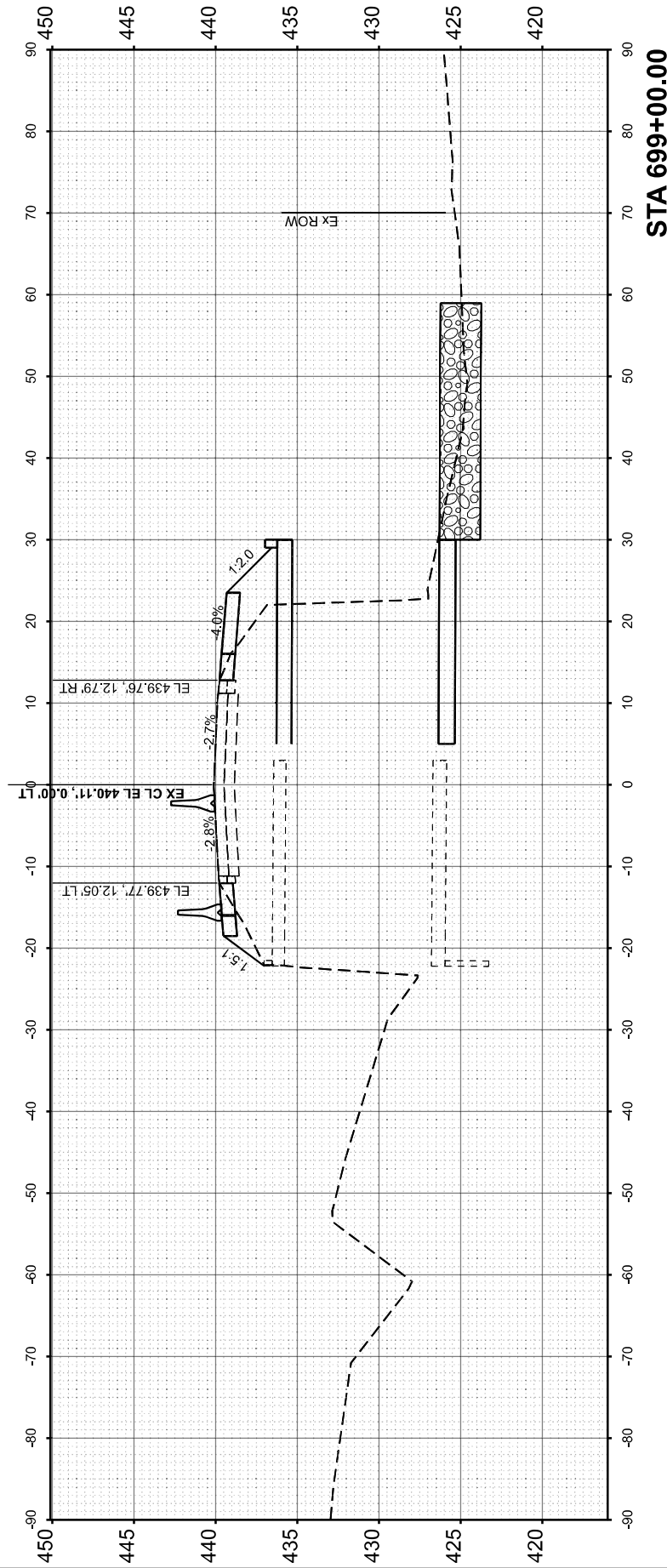
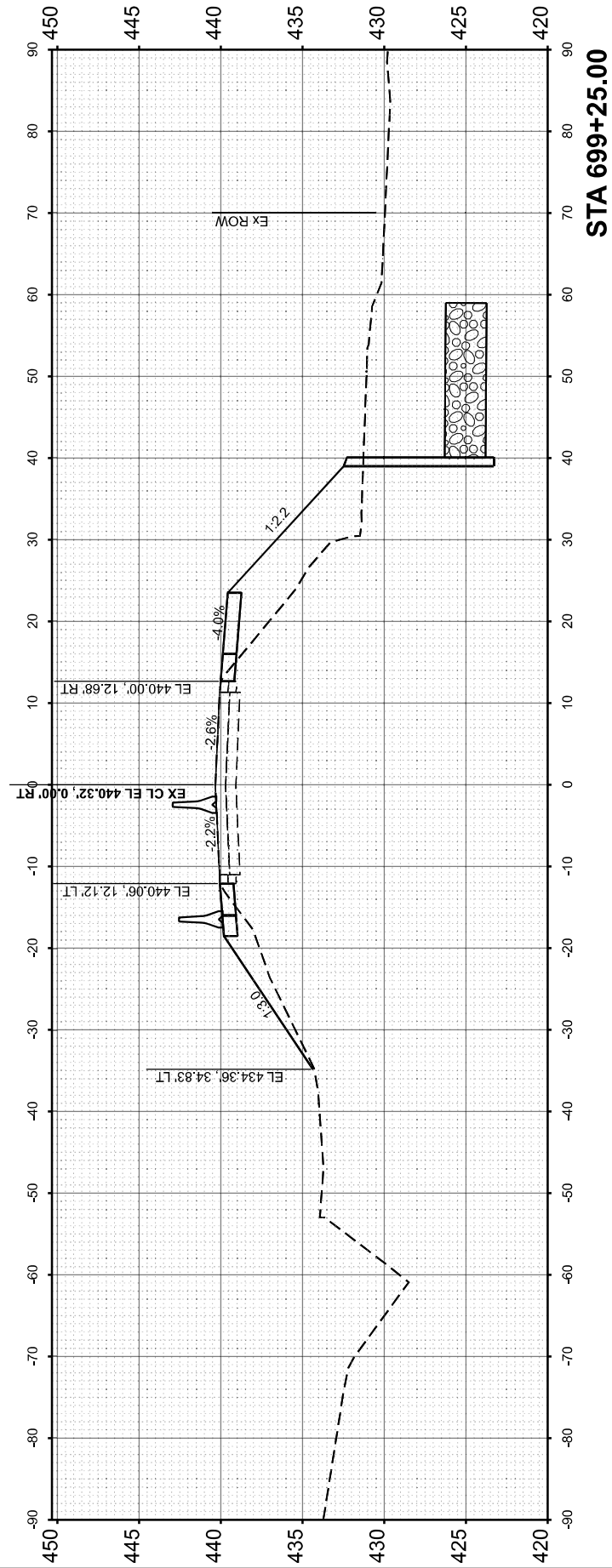
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PLOT DATE = 2/19/2026	DATE - 1/22/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 4 OF 14 SHEETS STA. TO STA.

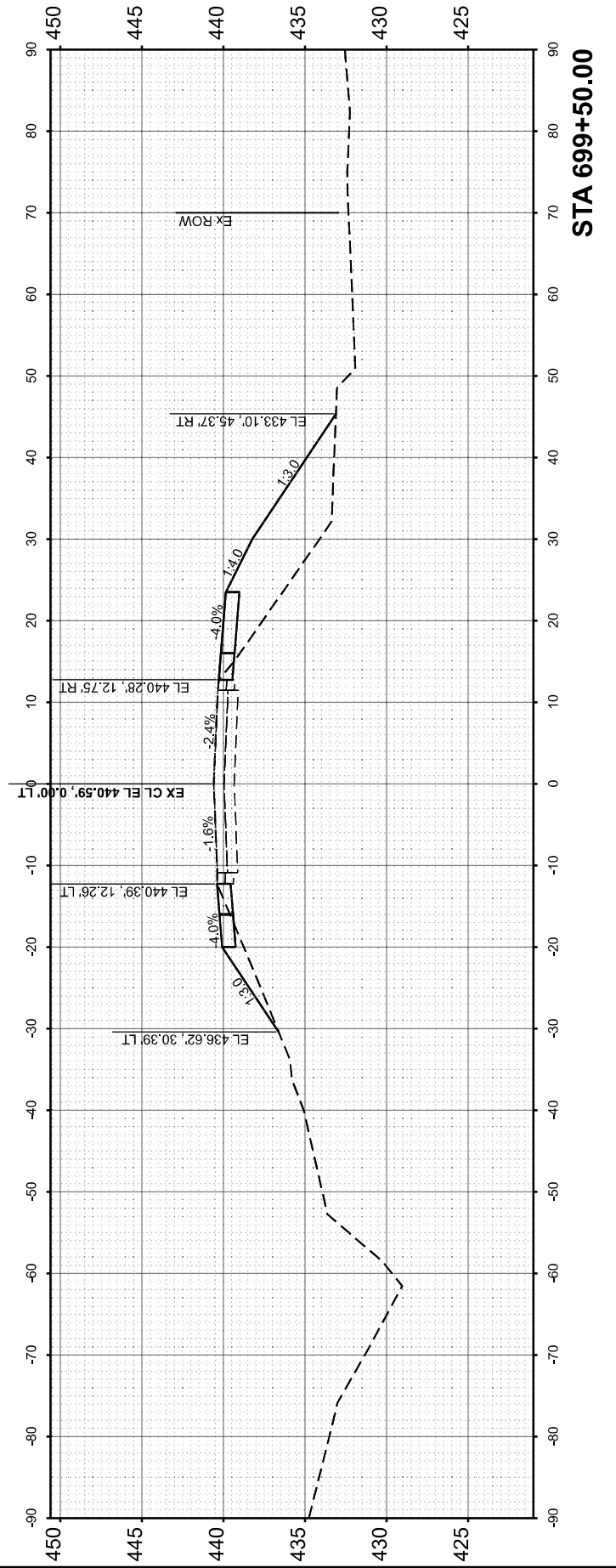
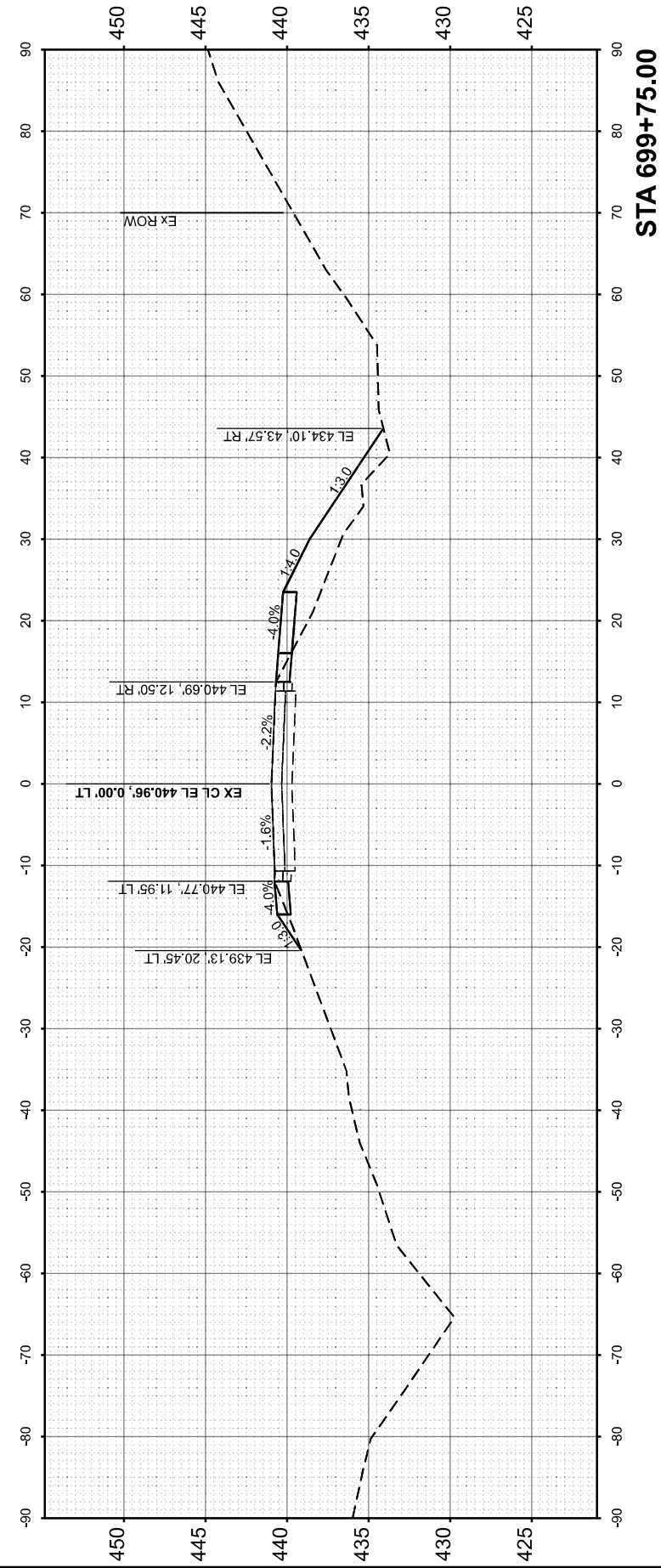
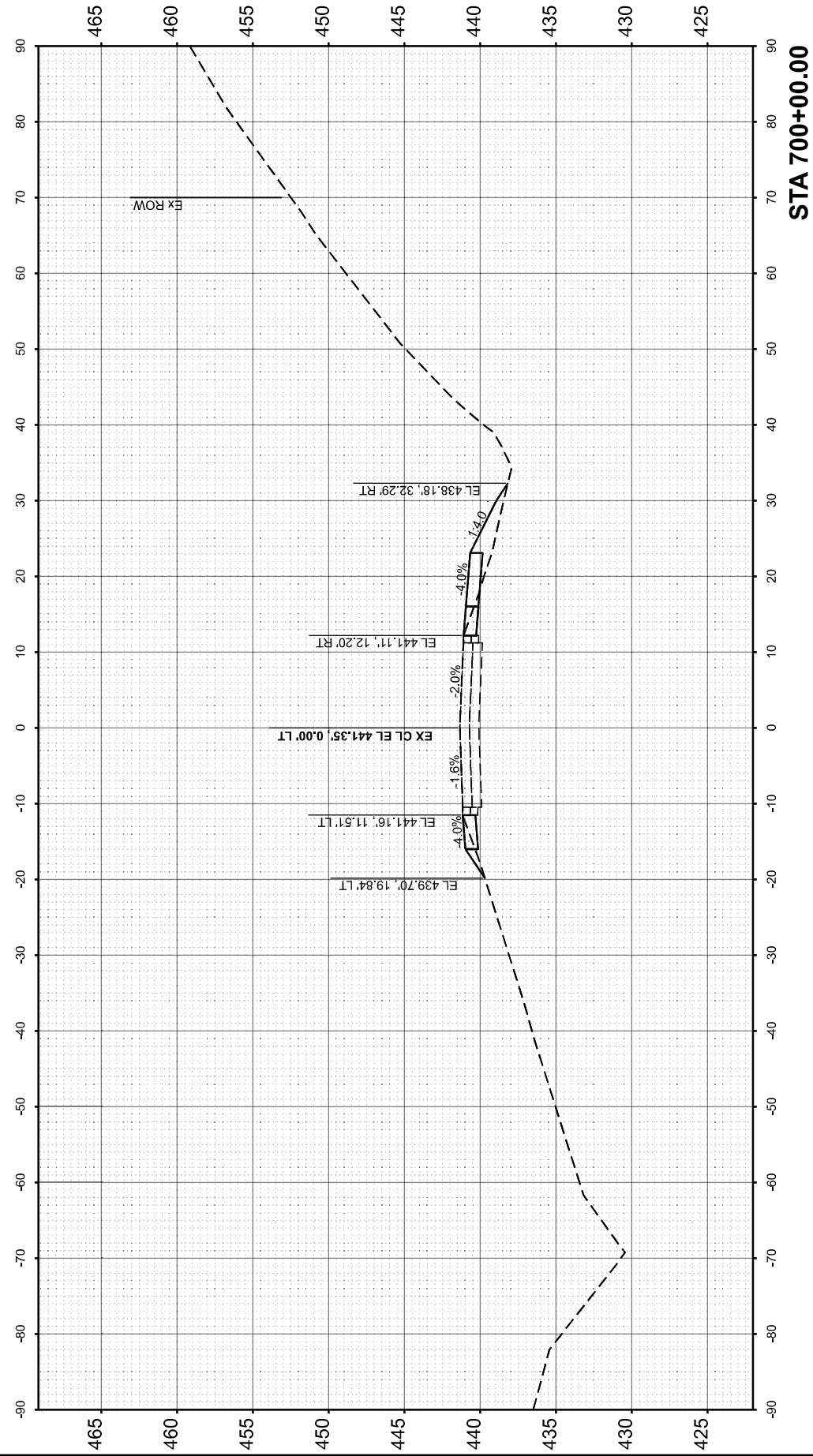
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	39
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				
*** (30G,104A)(B-1);(13,14A)(CR-1)				



FINISH SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT DATE = 1/26/2026	DATE - 1/22/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 5 OF 14 SHEETS STA. TO STA.

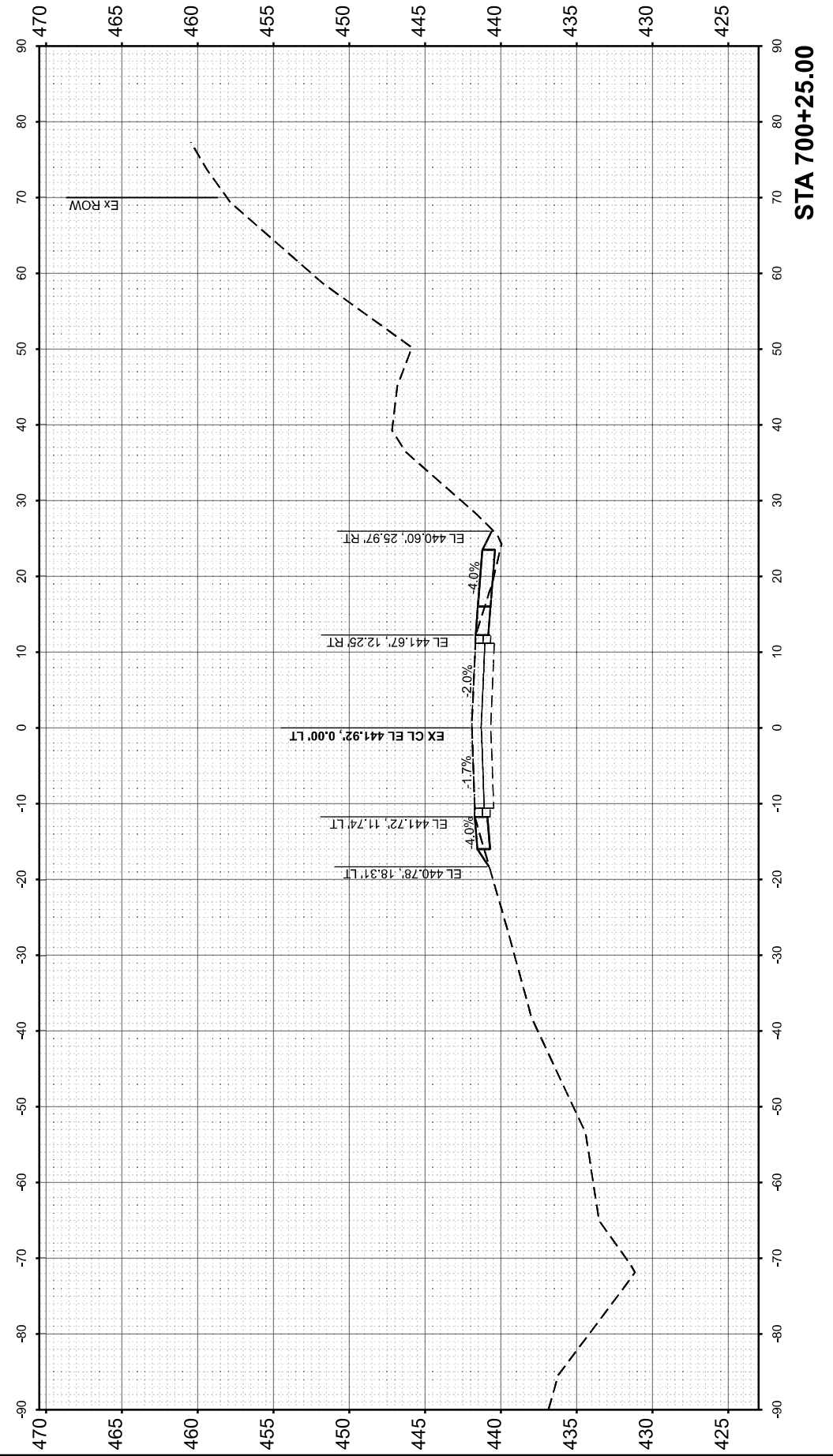
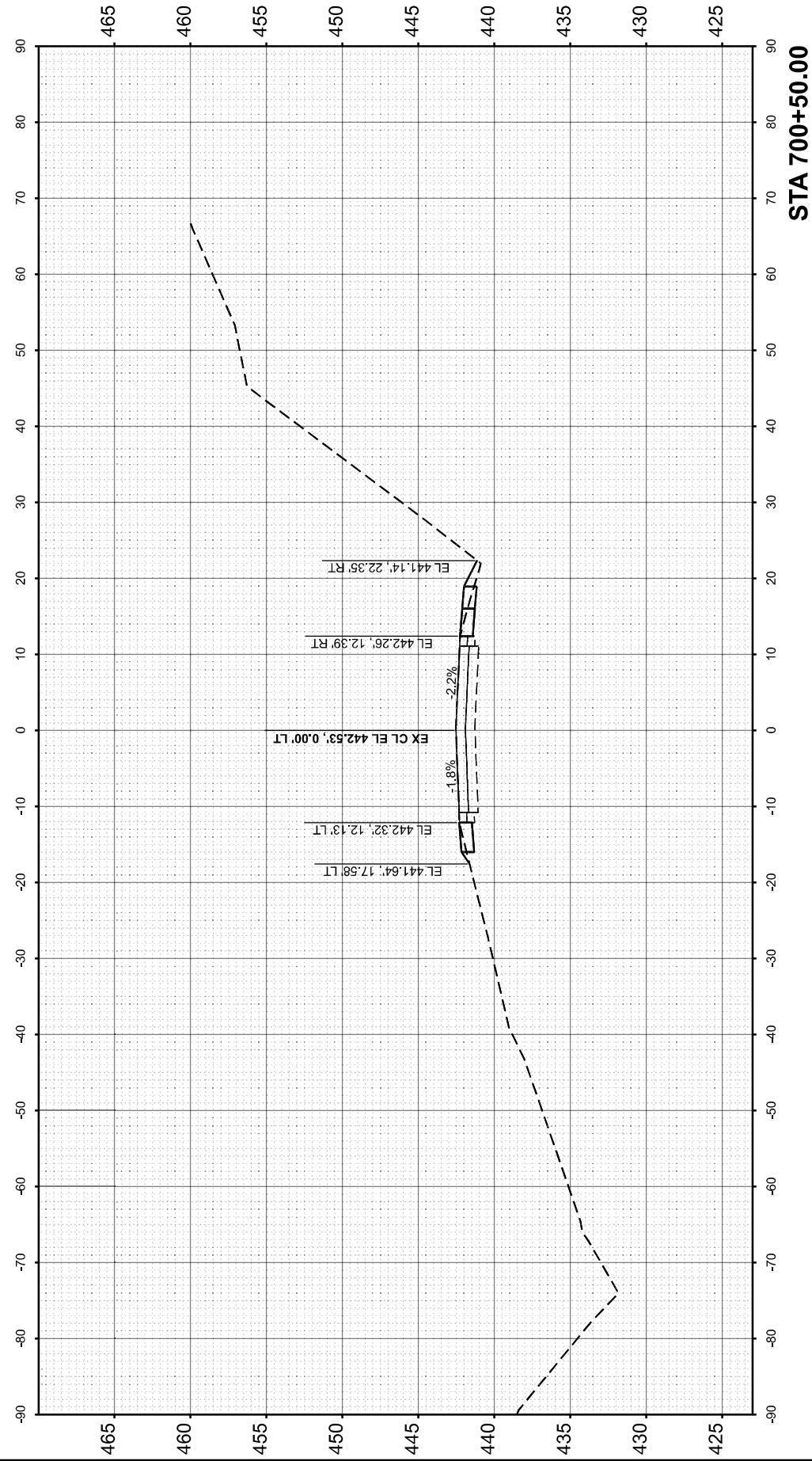
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VARIOUS	***	UNION	114	40
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

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PLOT DATE = 1/26/2026	DATE - 1/22/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)

SCALE: 1"=10' SHEET 6 OF 14 SHEETS STA. TO STA.

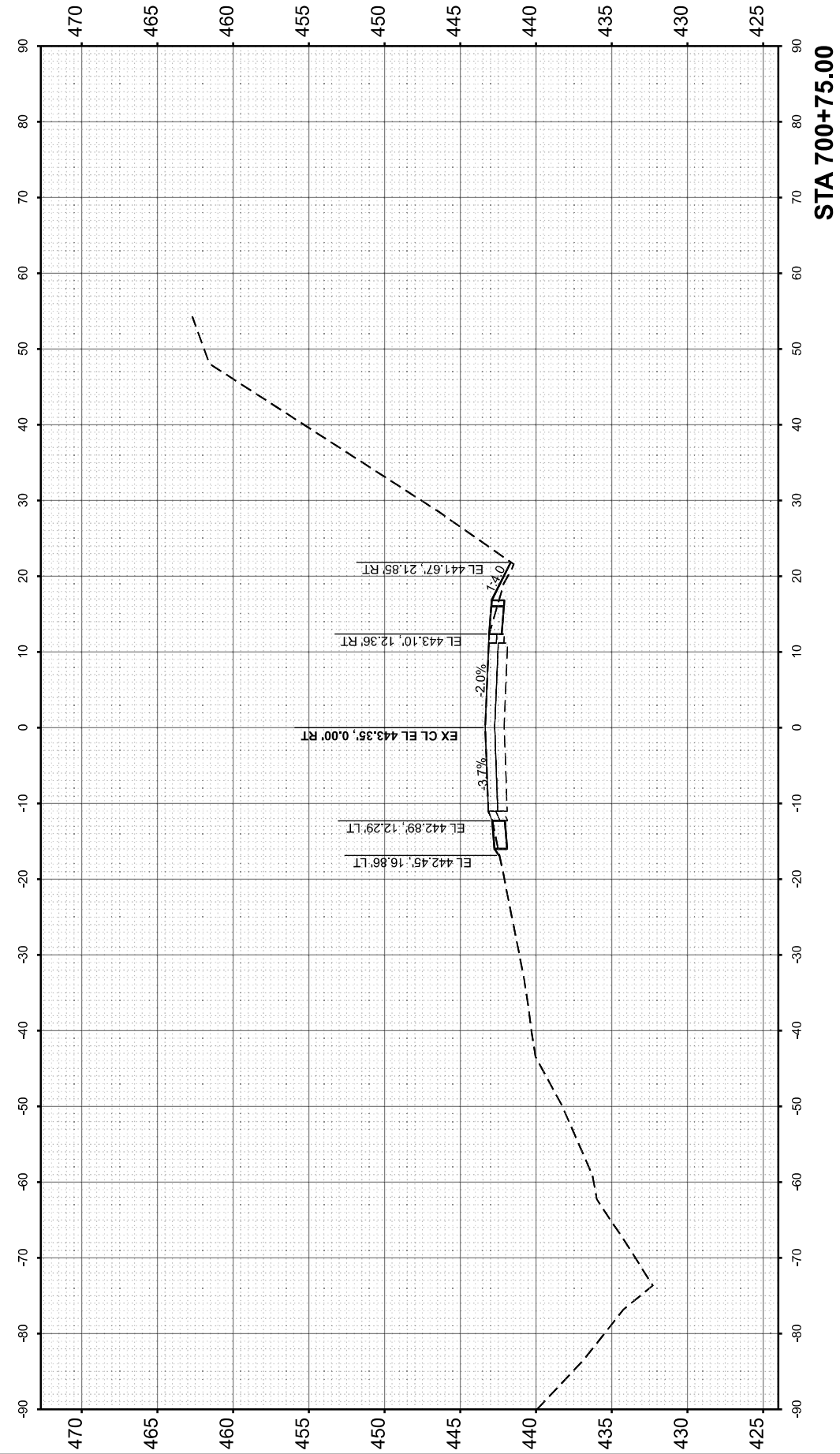
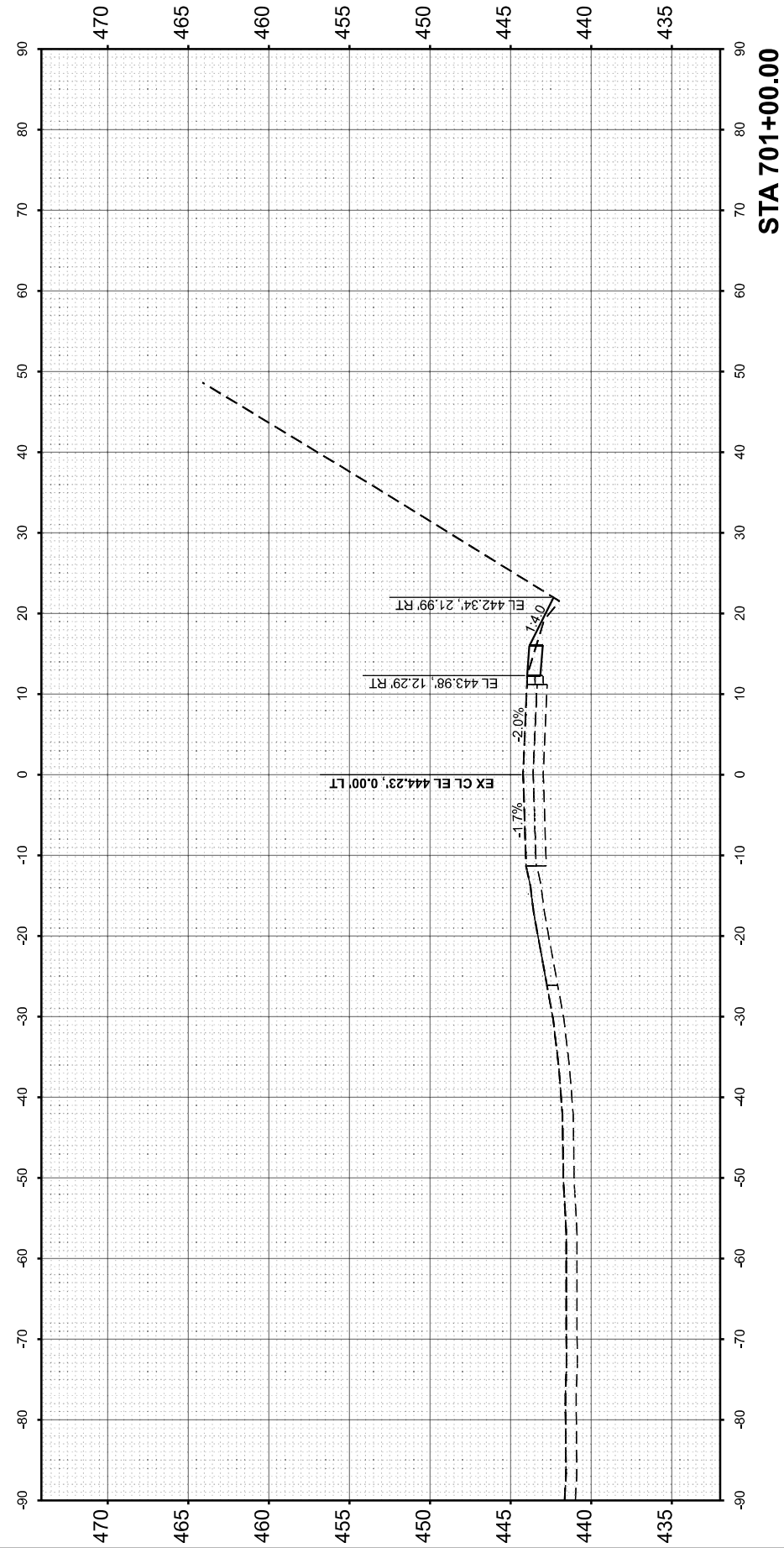
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	41
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

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PLOT DATE = 2/19/2026	DATE - 1/22/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 1
 SN 091-2027 (P)

SCALE: 1"=10' SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	42
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

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

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

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DESIGNED	- JRS
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DATE	= 2/19/2026

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REVISIONS	-
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REVISIONS	-

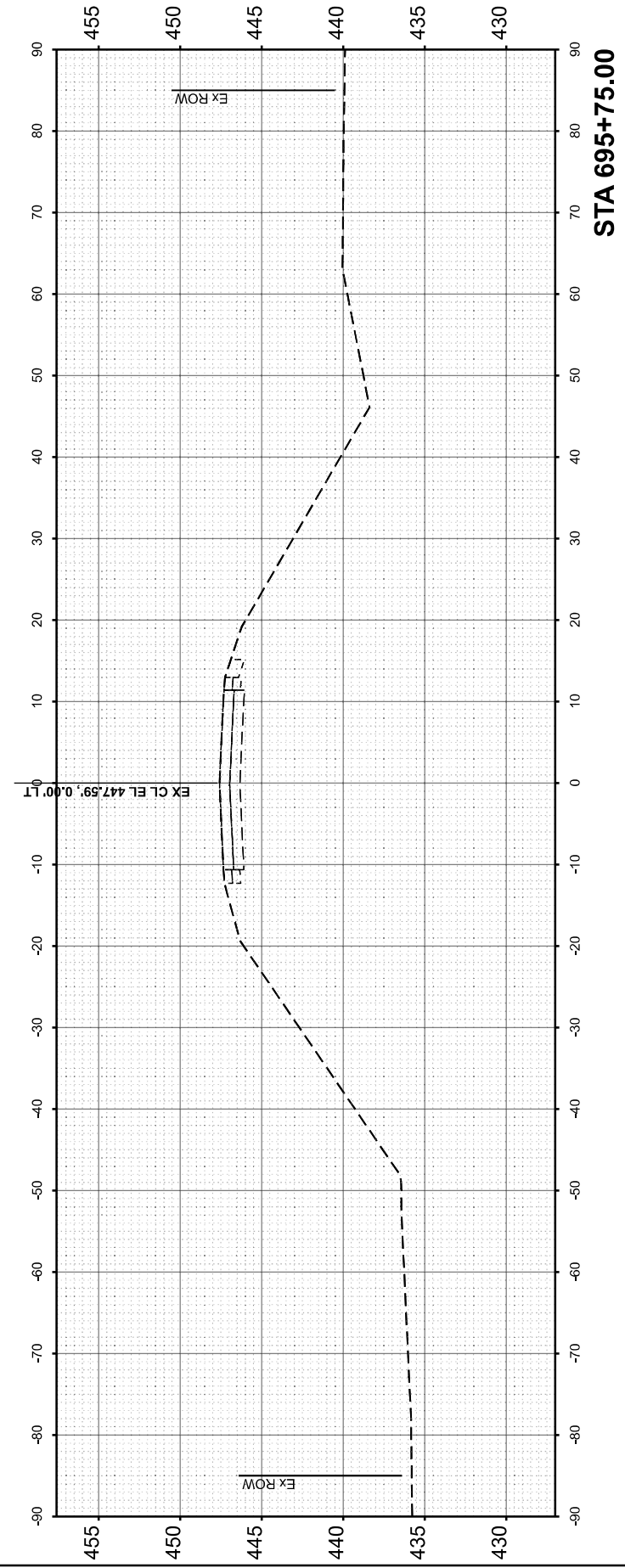
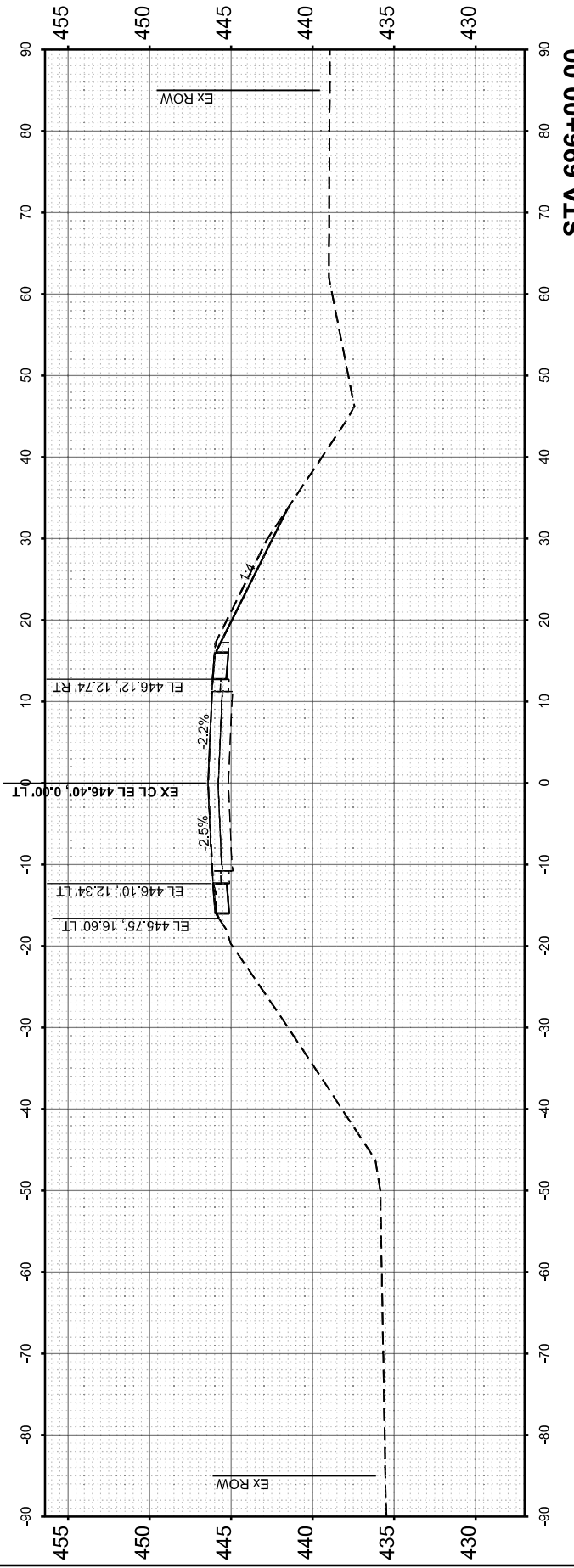
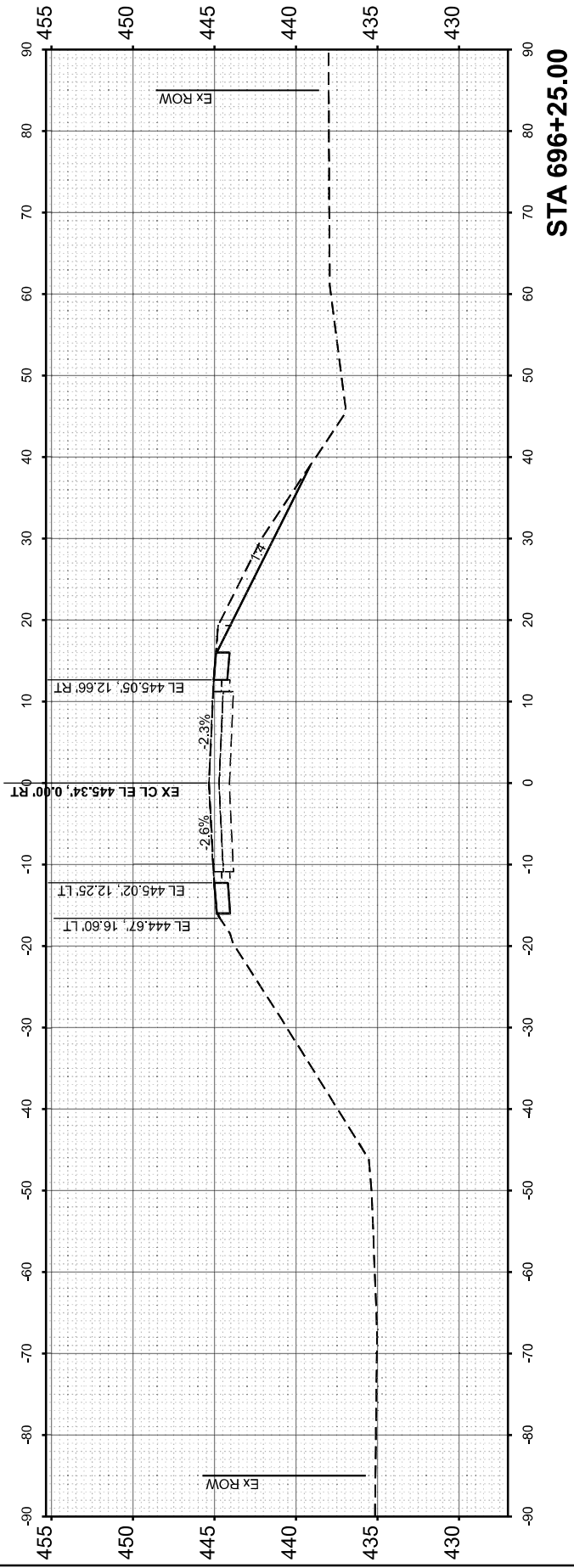
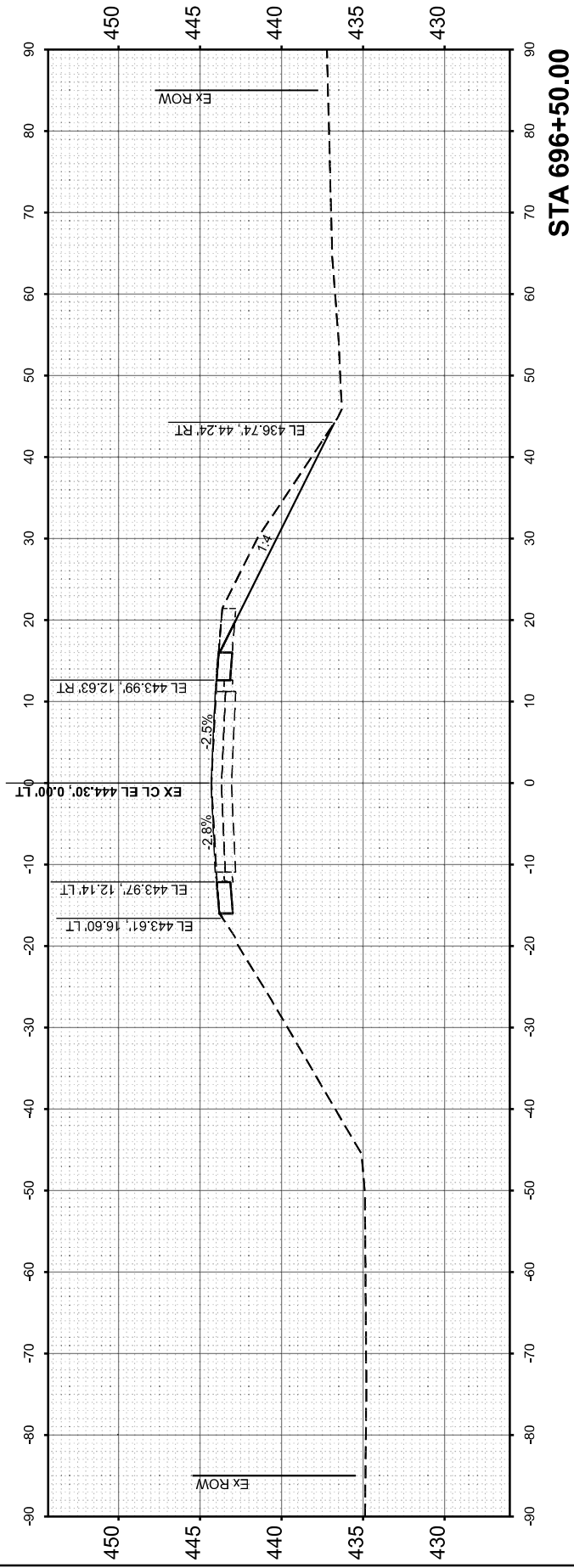
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 2 (FINAL)
SN 091-2027 (P)**

SCALE: 1"=10' SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	43
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

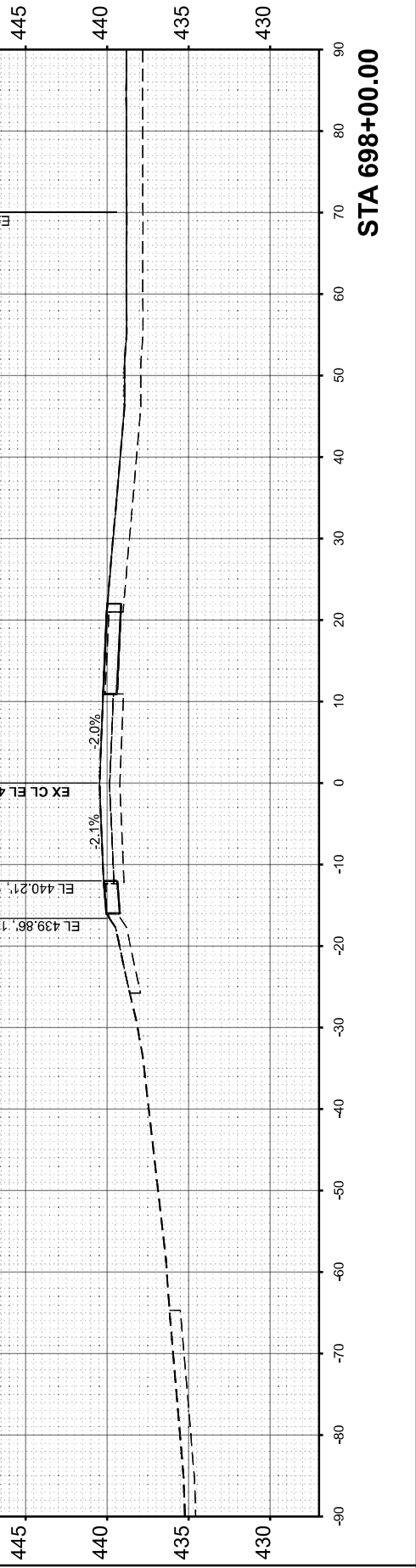
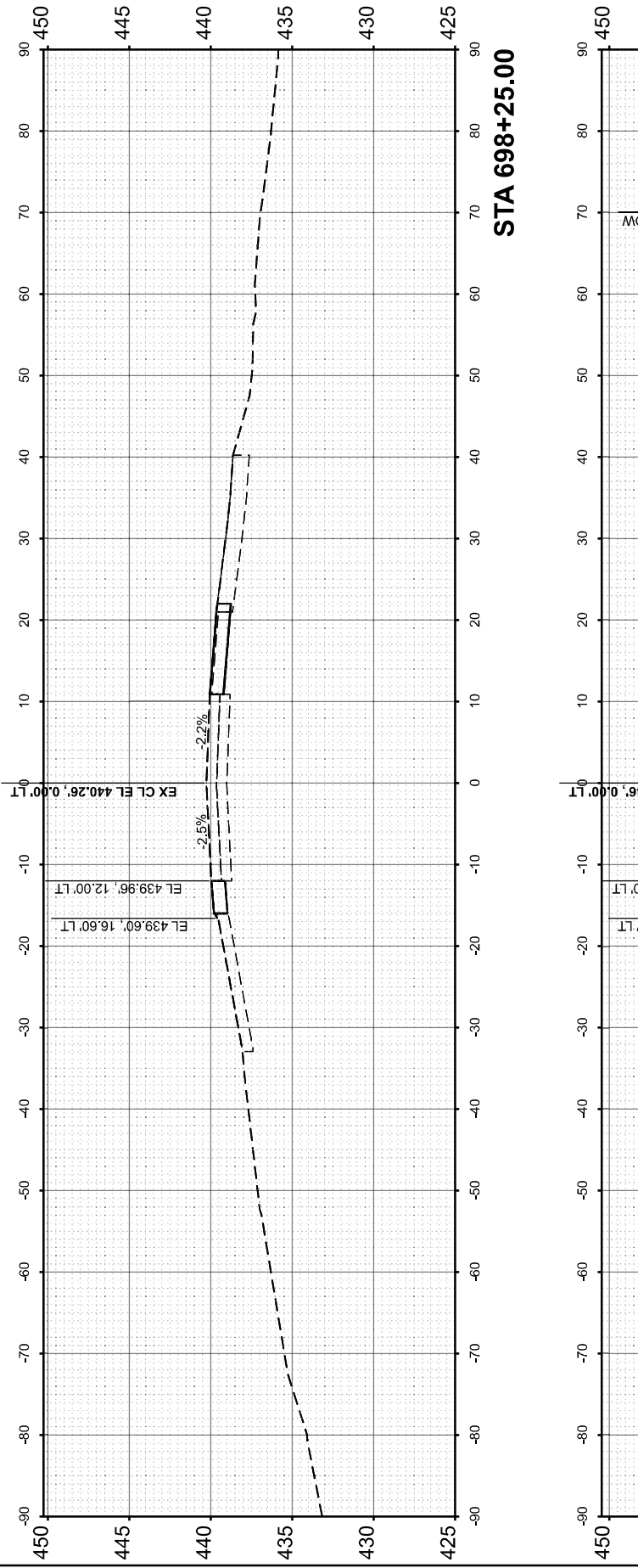
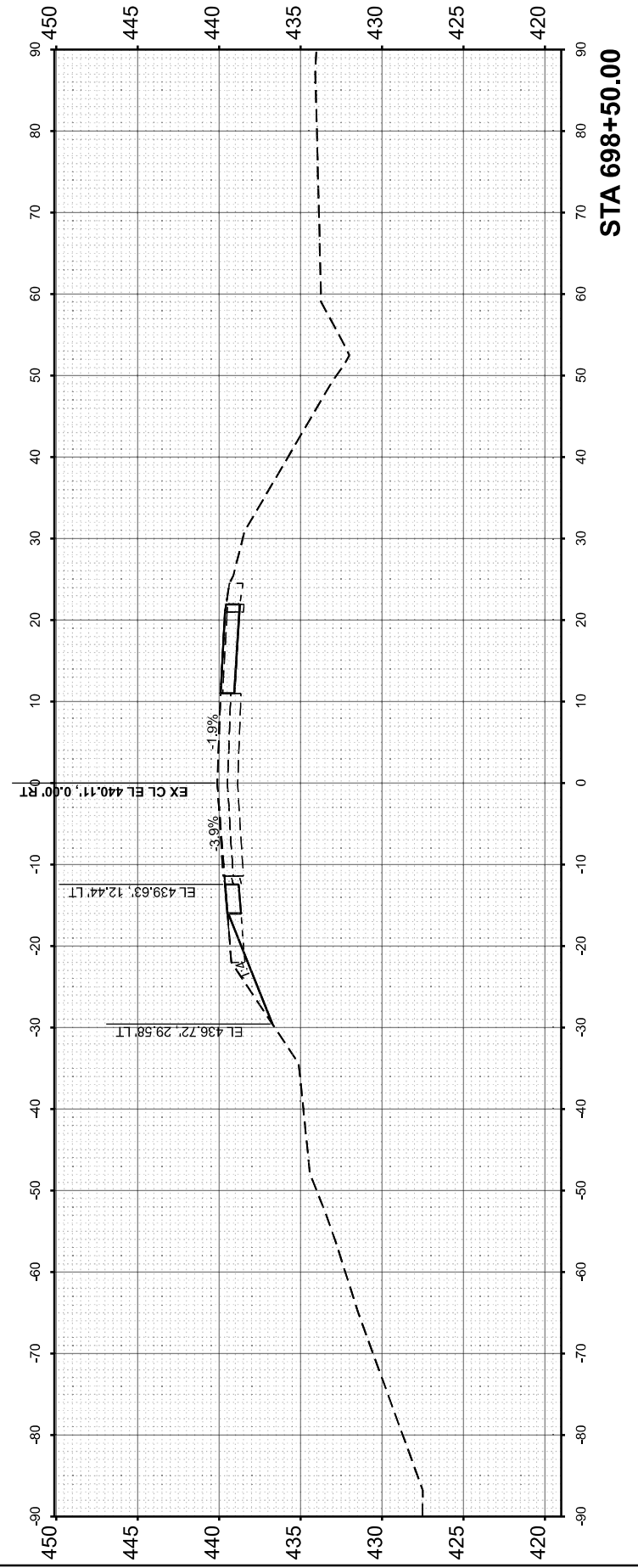
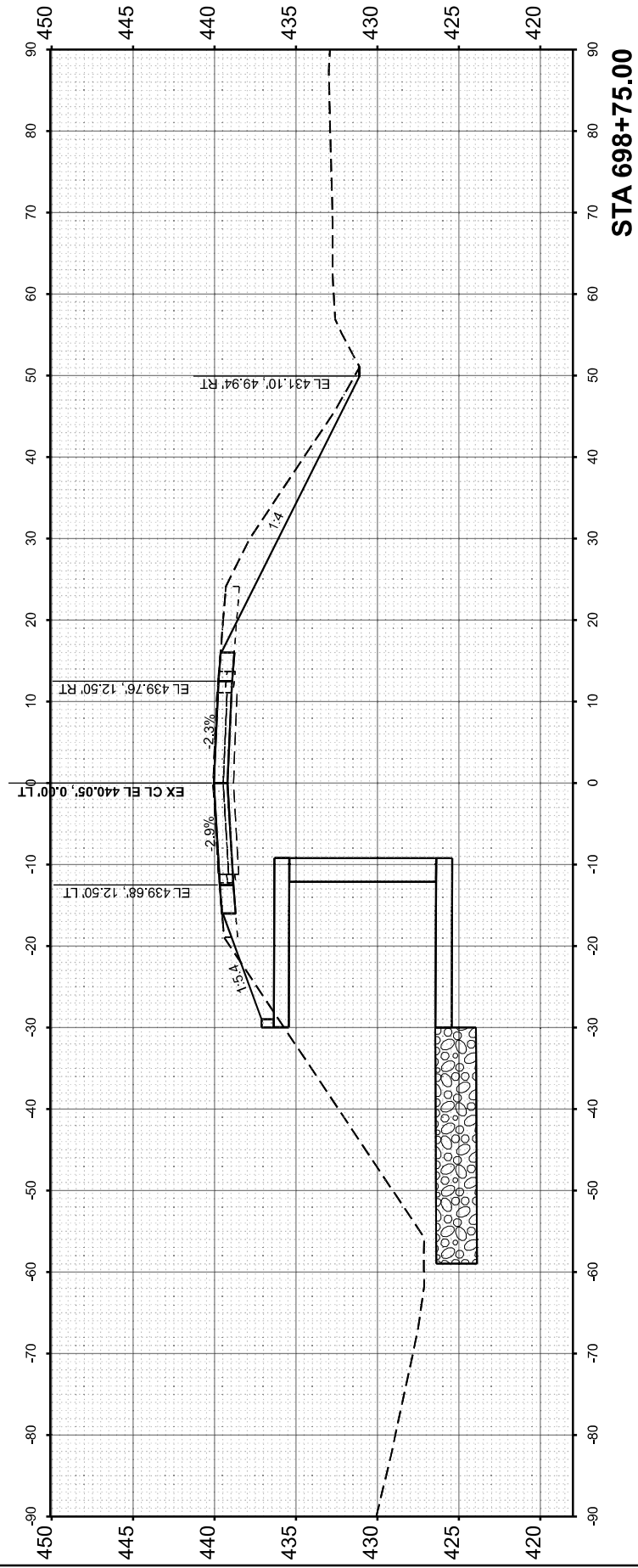
*** (30G,104A)(B-1);(13,14A)(CR-1)



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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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	DRAWN - MDS	REVISD -
	CHECKED - JRS	REVISD -
PLOT DATE = 2/19/2026	DATE - 1/22/26	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 2 (FINAL)
 SN 091-2027 (P)

SCALE: 1"=10' SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	45
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINISH SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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USER NAME	= msutheard
DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/22/26
PLOT DATE	= 2/19/2026

REVISOR	-
REVISION	-
REVISION	-
REVISION	-

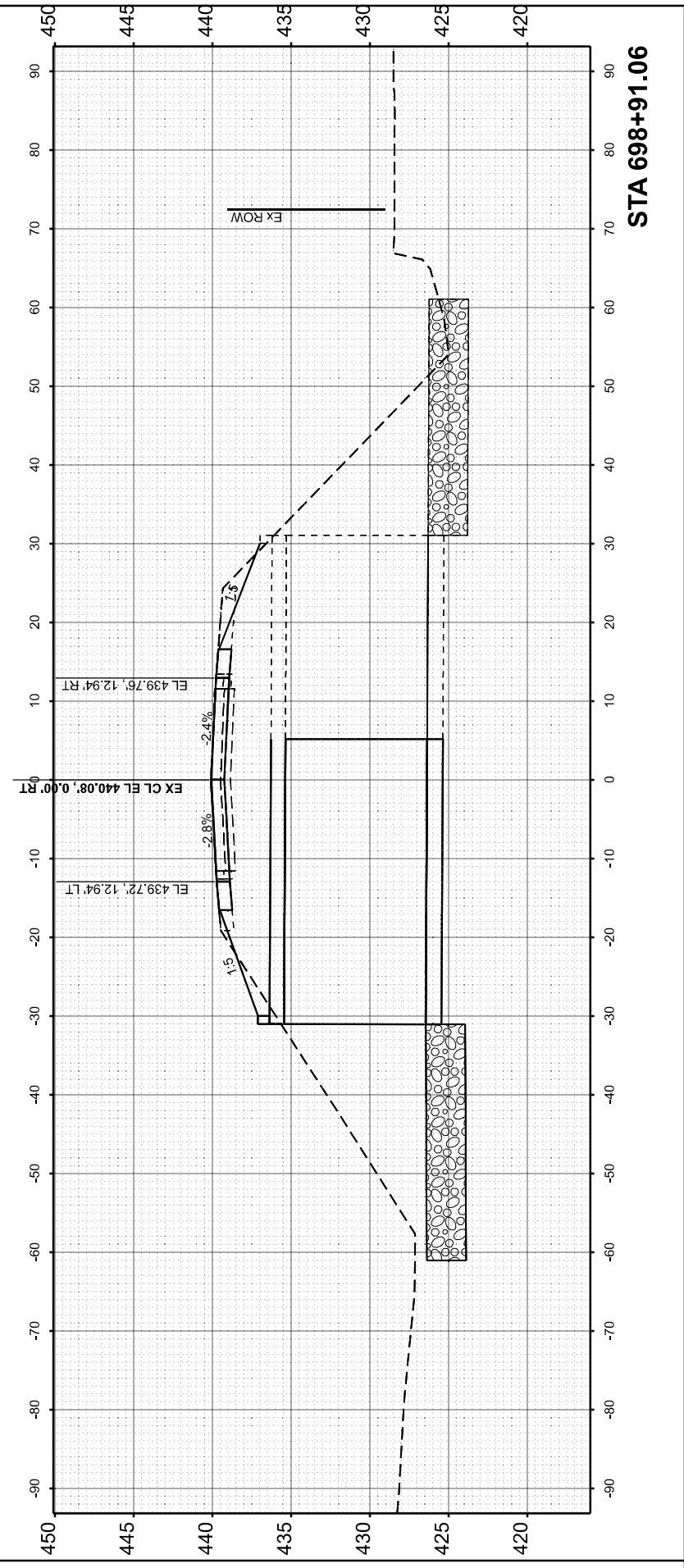
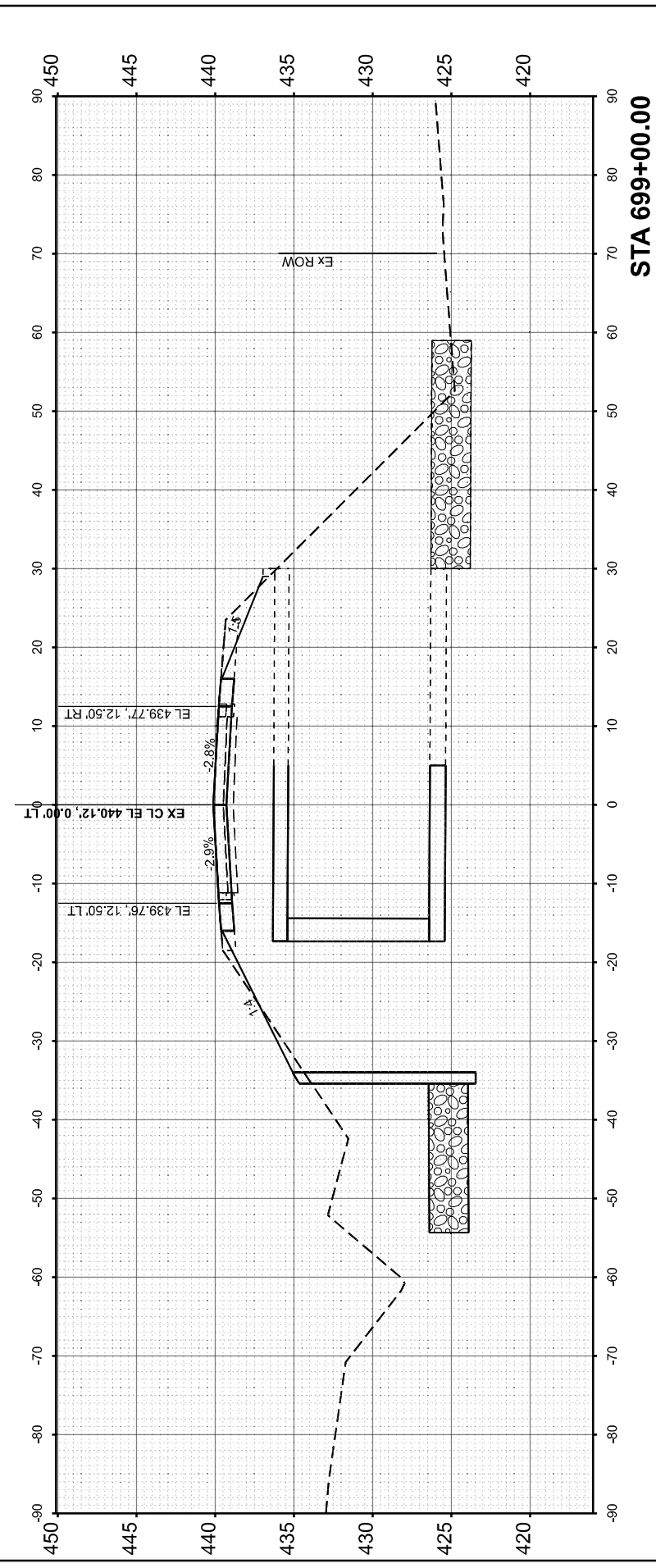
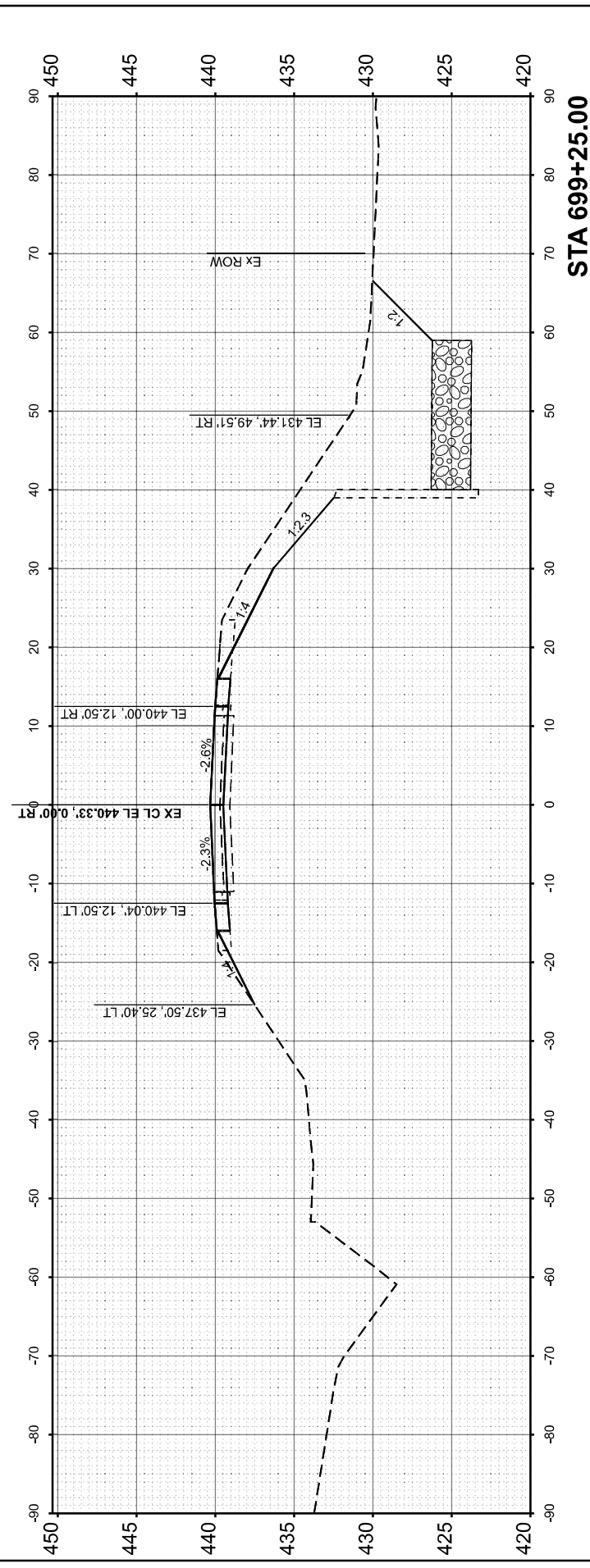
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 2 (FINAL)
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	46
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

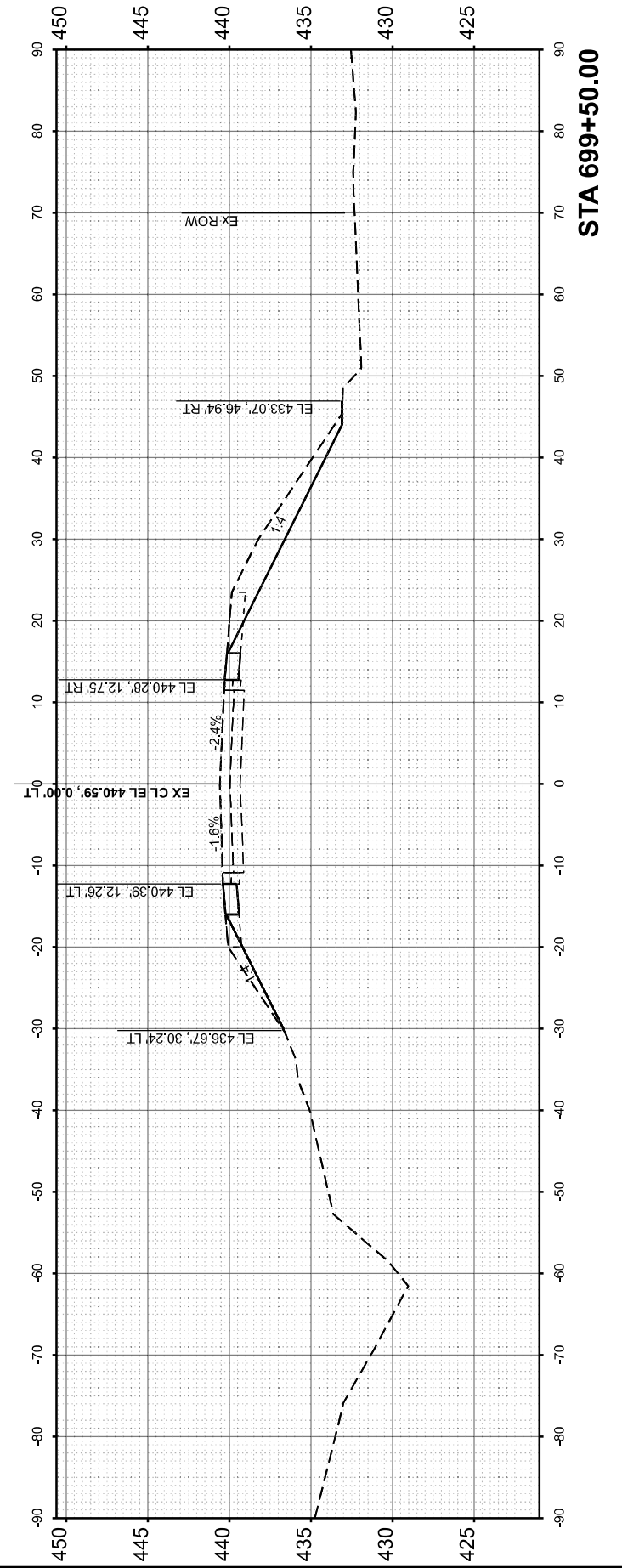
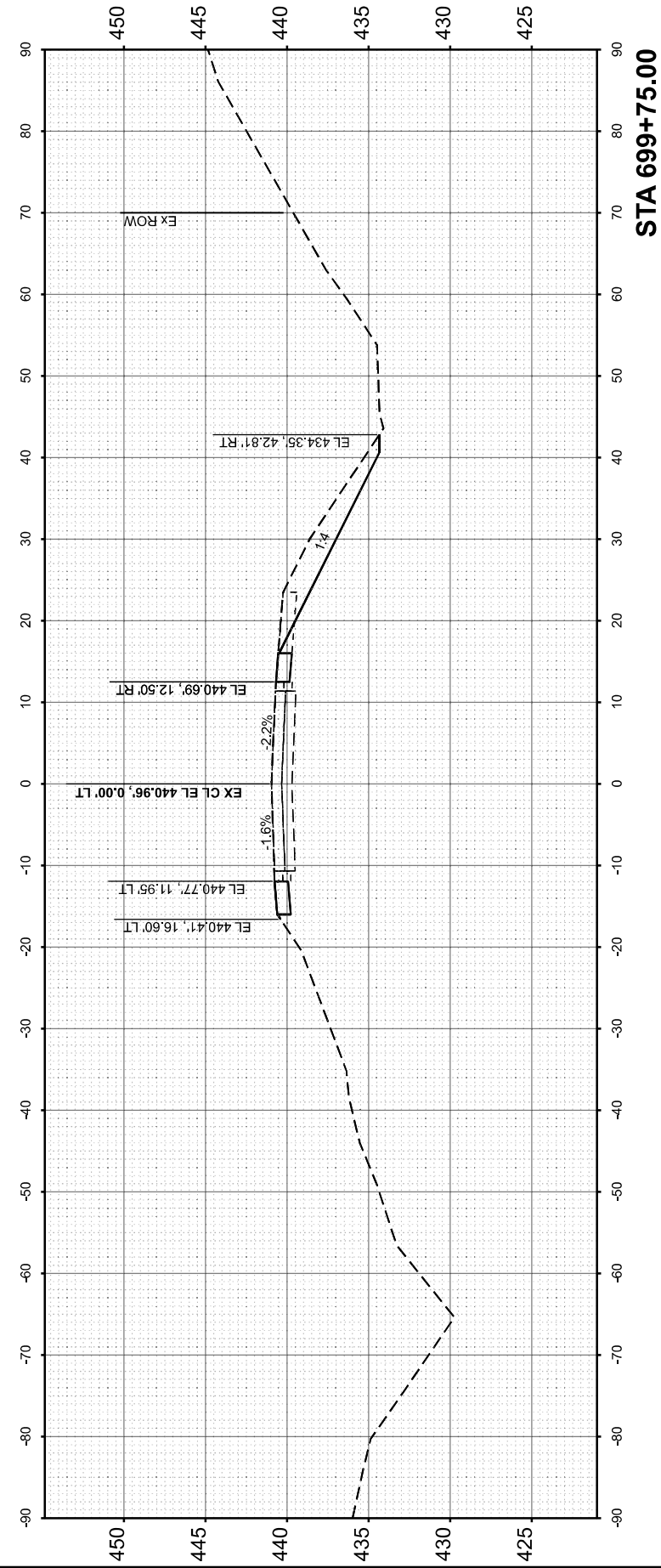
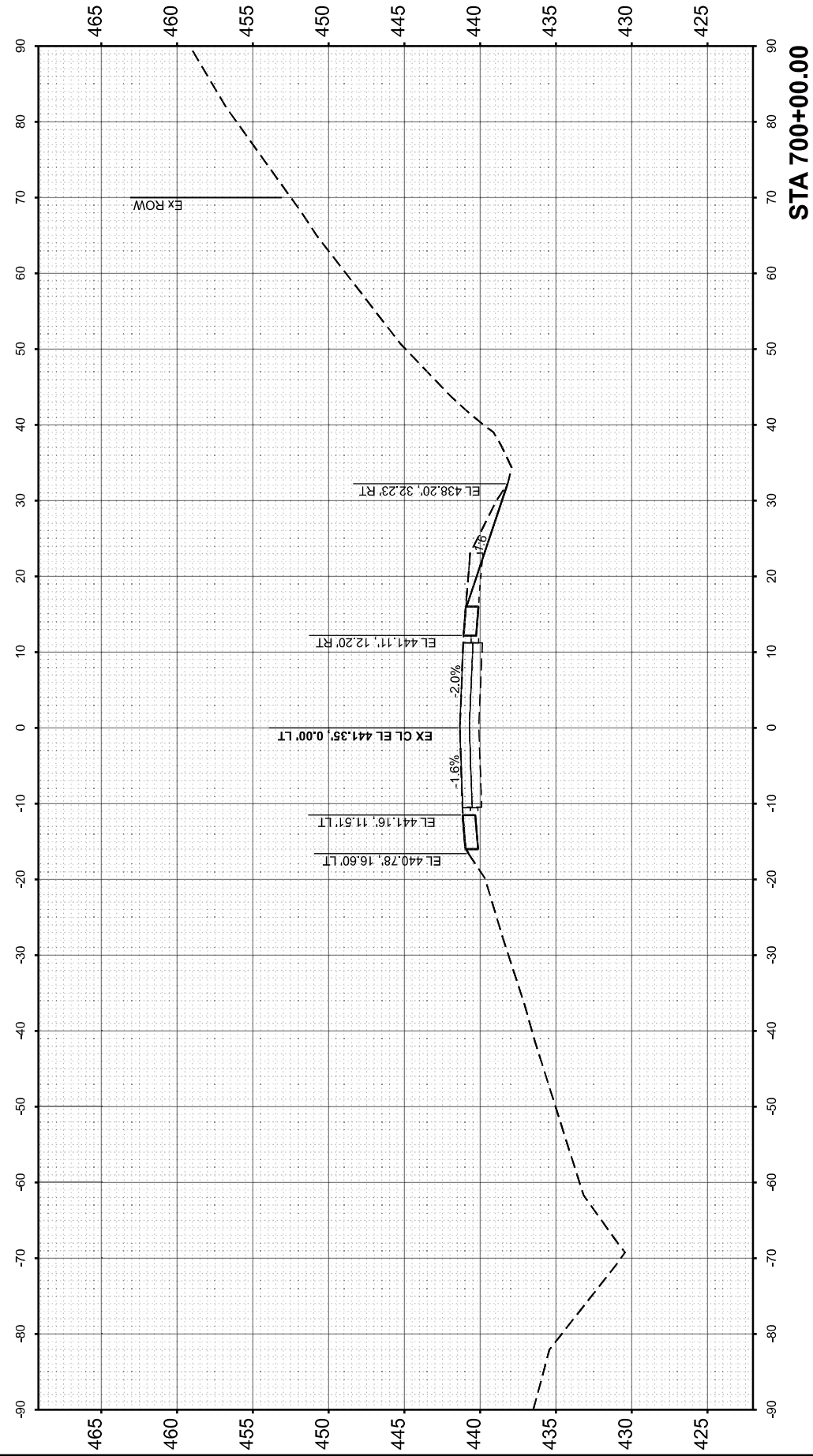
*** (30G,104A)(B-1);(13,14A)(CR-1)



FINISH SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: IL 07 - 099+50.00 (Sheet)
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USER NAME = Ismailay	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/5/2026	DATE - 1/22/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - STAGE 2 (FINAL)
 SN 091-2027 (P)

SCALE: 1"=10' SHEET 12 OF 14 SHEETS STA. TO STA.

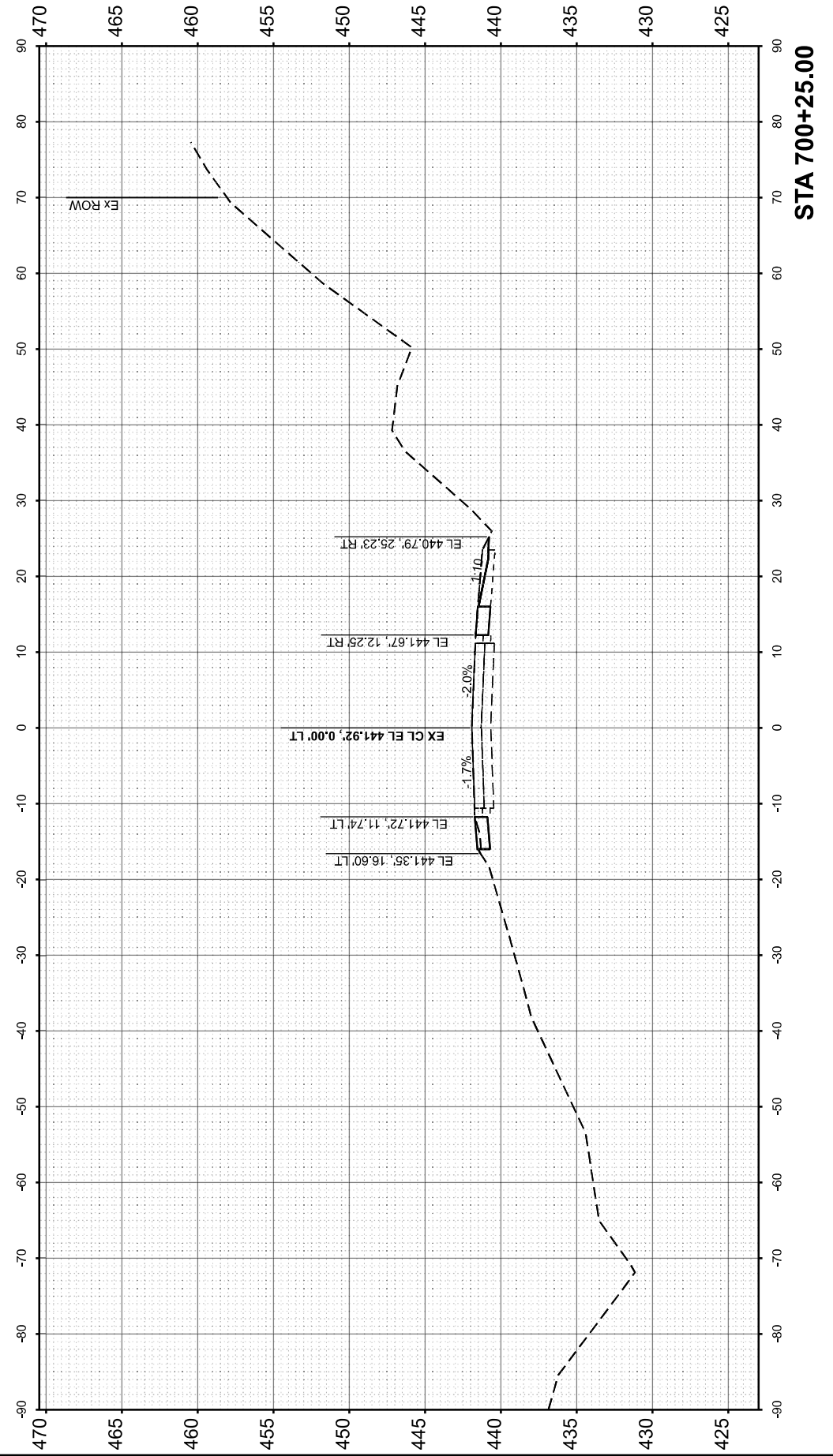
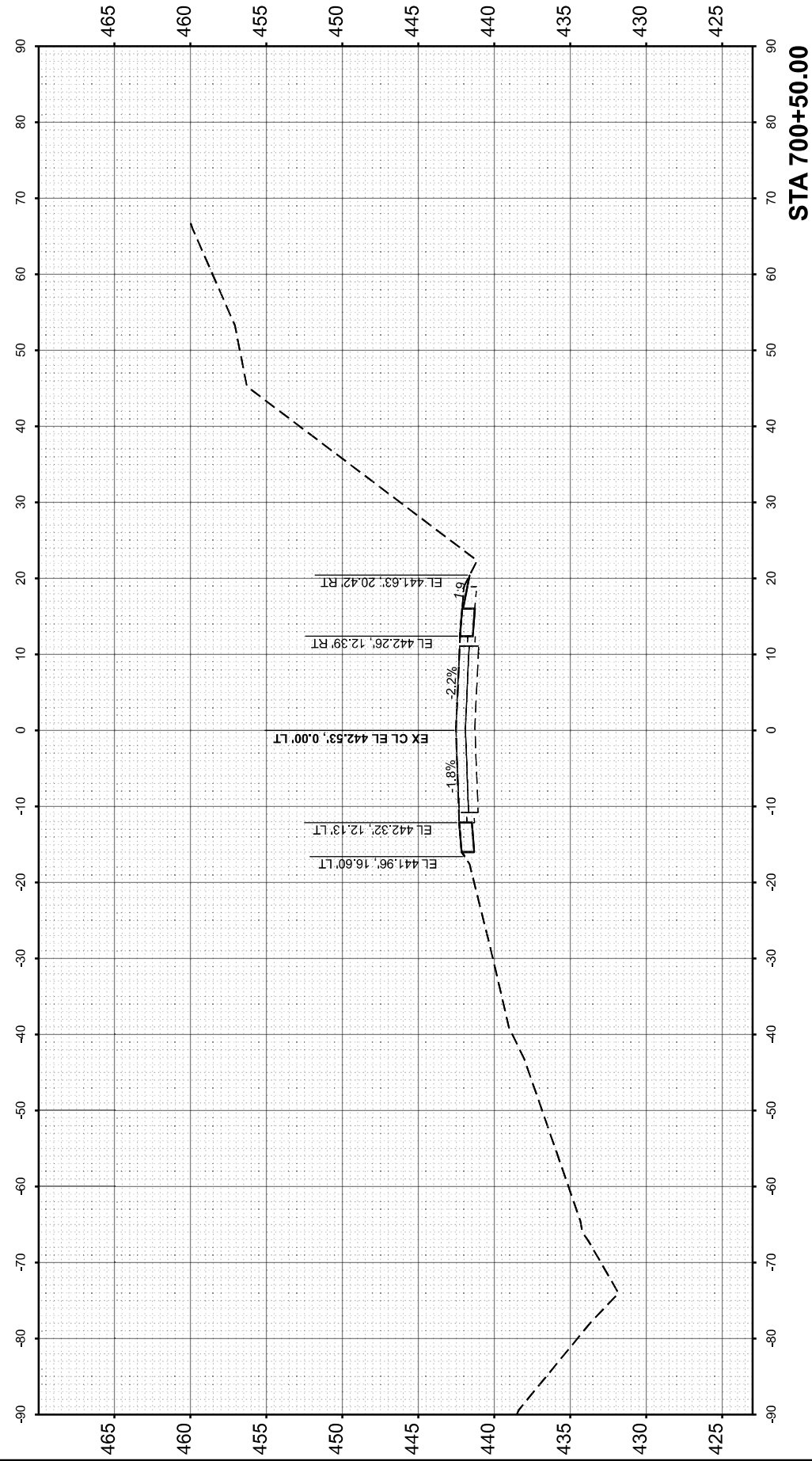
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	47
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

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 FILE NAME: I:\2023\2304 DOT D3 - PTB 207-043 - PE HJ\B091-2027\CAD>Data\Design\0918A13-0912027-XS-Stage2_2026.dgn



USER NAME	= Ismailay	DESIGNED	- JRS	REVISED	-
		DRAWN	- MDS	REVISED	-
		CHECKED	- JRS	REVISED	-
PLOT DATE	= 2/5/2026	DATE	- 1/22/26	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 2 (FINAL)
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 13 OF 14 SHEETS STA. TO STA.

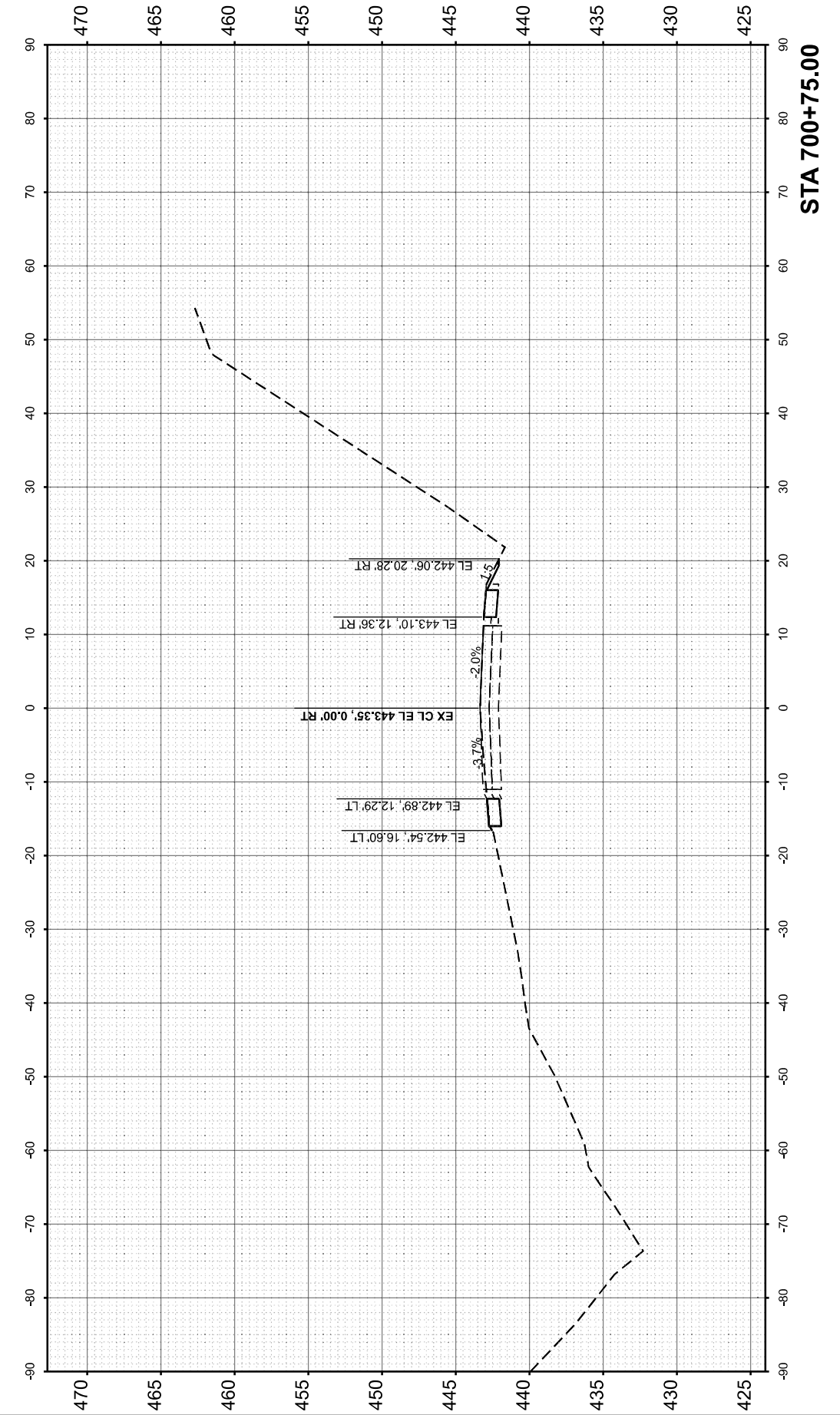
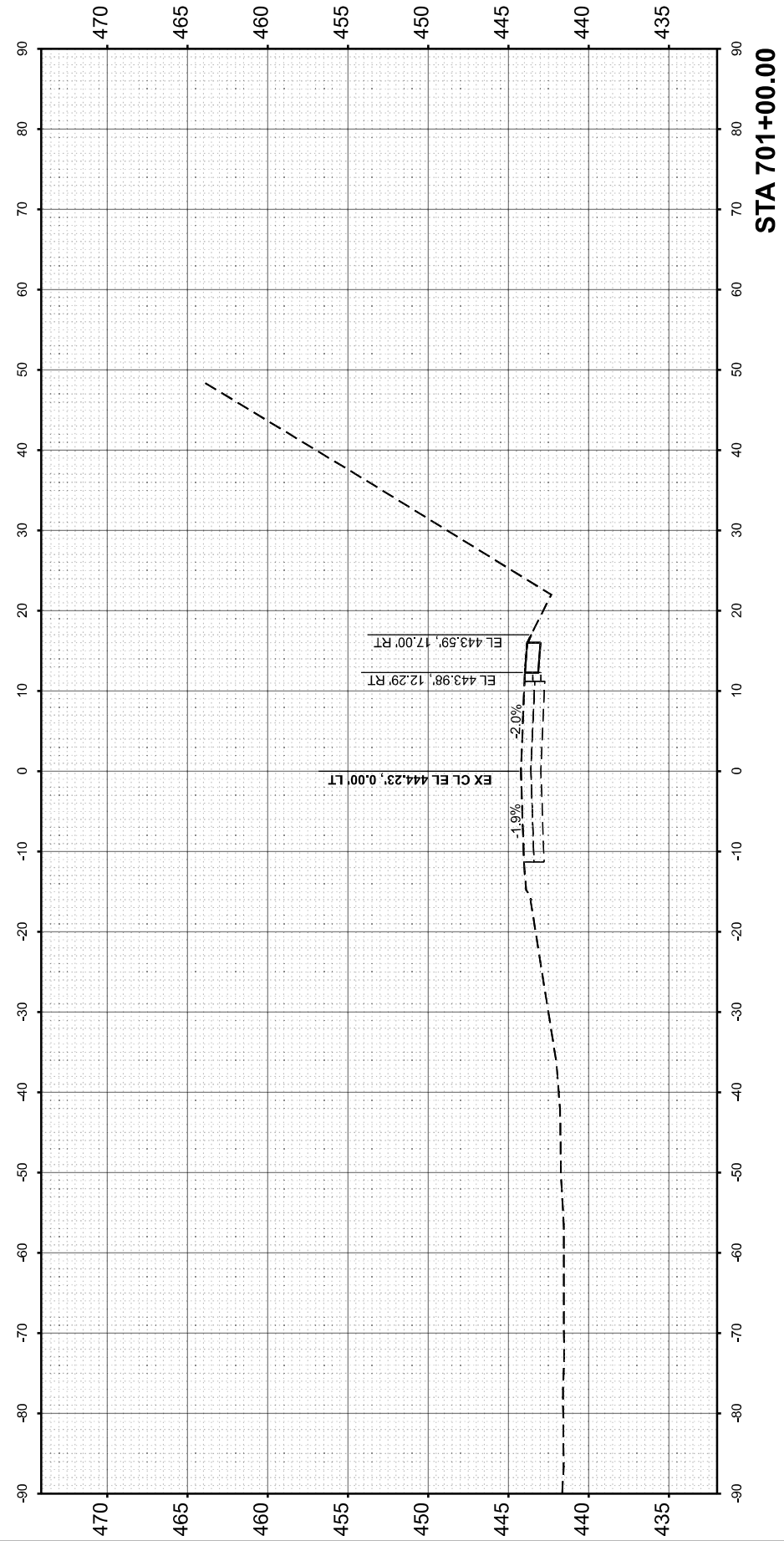
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	48
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINISH SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED AREAS CHECKED	BY	DATE

MODEL: IL 07 - 700+75.00 (Sheet)
 FILE NAME: I:\2023\2304 DOT D3 - PTB 207-043 - PE HI\B0912027\CAD\Drawings\0912027-XS-Stage2_2026.dgn



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	DRAWN - MDS	REVISED -
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PLOT DATE = 2/5/2026	DATE - 1/22/26	REVISED -

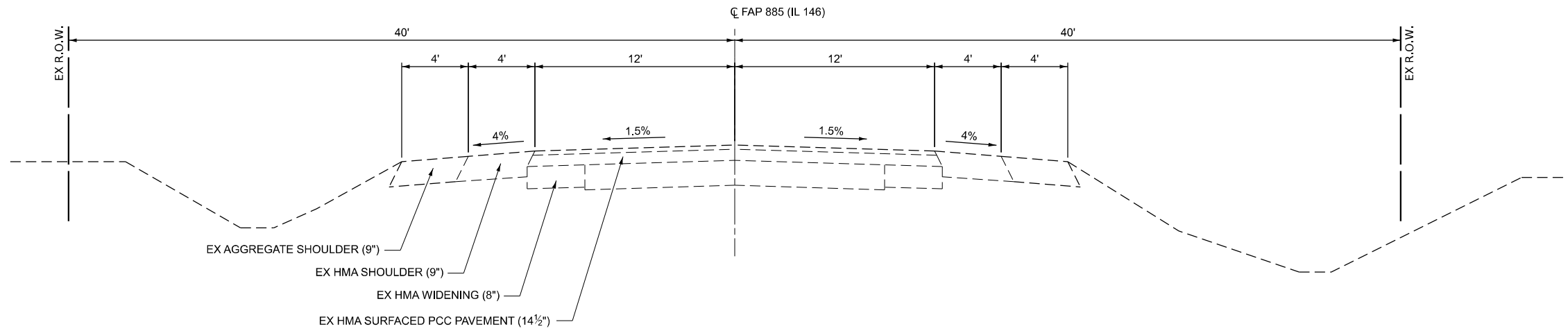
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 2 (FINAL)
 SN 091-2027 (P)**

SCALE: 1"=10' SHEET 14 OF 14 SHEETS STA. TO STA.

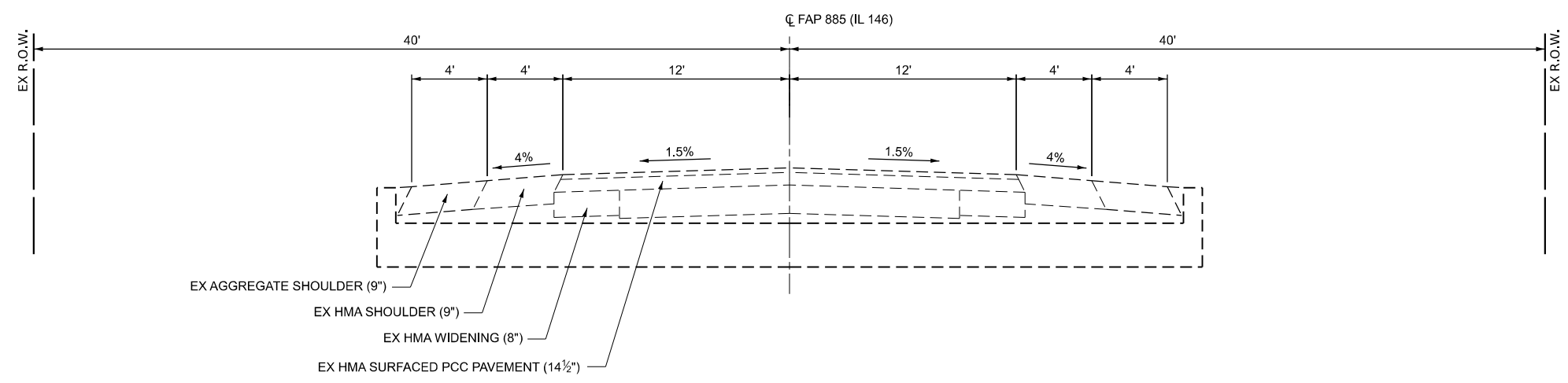
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	49
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



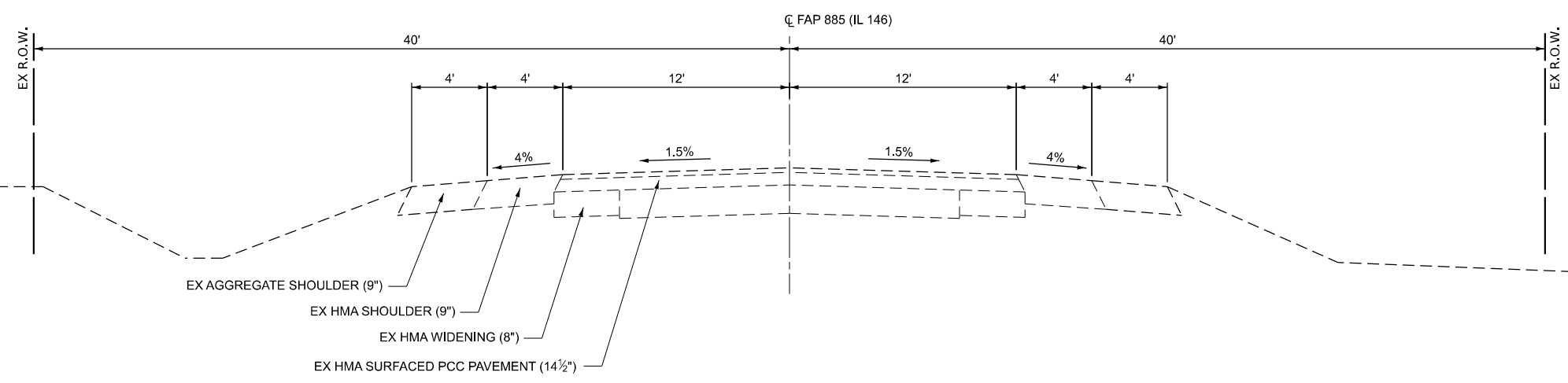
EXISTING TYPICAL SECTION

STA. 115+56 TO STA. 117+24



EXISTING TYPICAL SECTION

STA. 117+24 TO STA. 117+74



EXISTING TYPICAL SECTION

STA. 117+74 TO STA. 119+40

MODEL: Typical Section (Sheet)
 FILE NAME: I:\2023\23044 [DOT D9 - PTB 207-948 - PE HI] \BB\091-2030\CAD\Drawings\091-2030-shr-Typical_Rdw\EX.dgn



USER NAME = msulheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 1/25/26	REVISED -

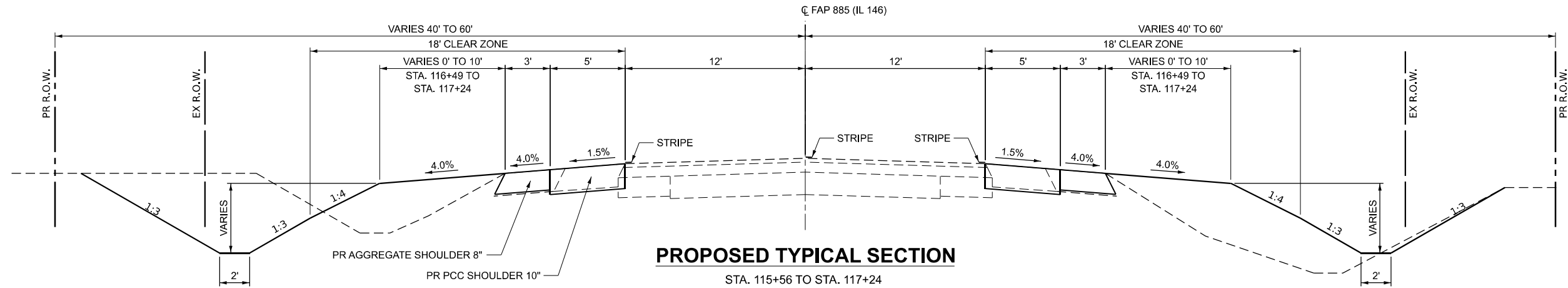
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTION
 SN 091-2030 (P)**

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

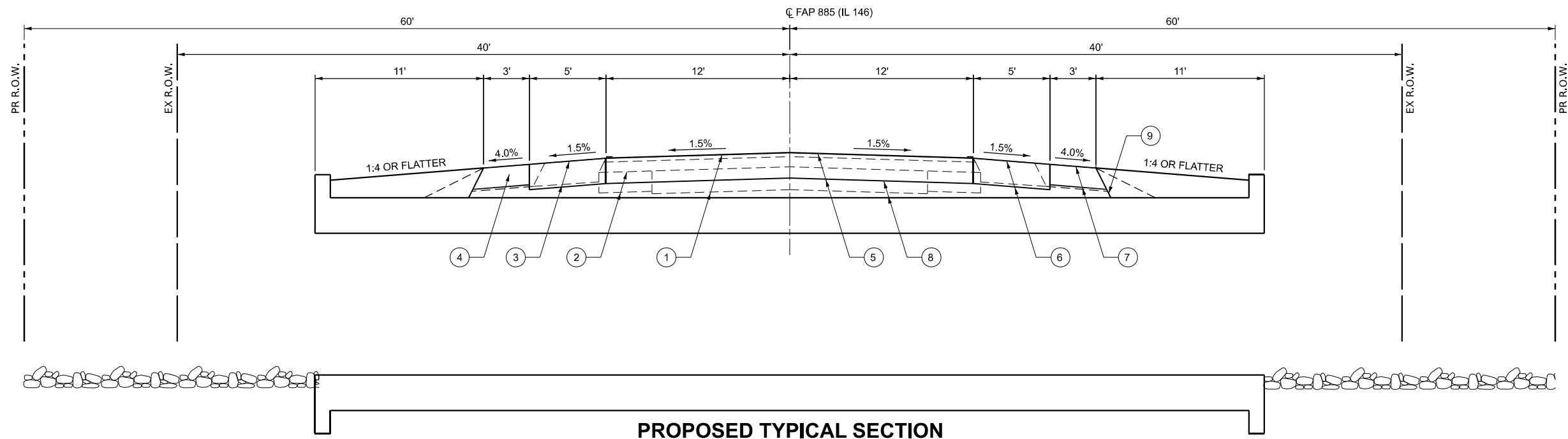
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	50
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
 *** (30G,104A)(B-1);(13,14A)(CR-1)



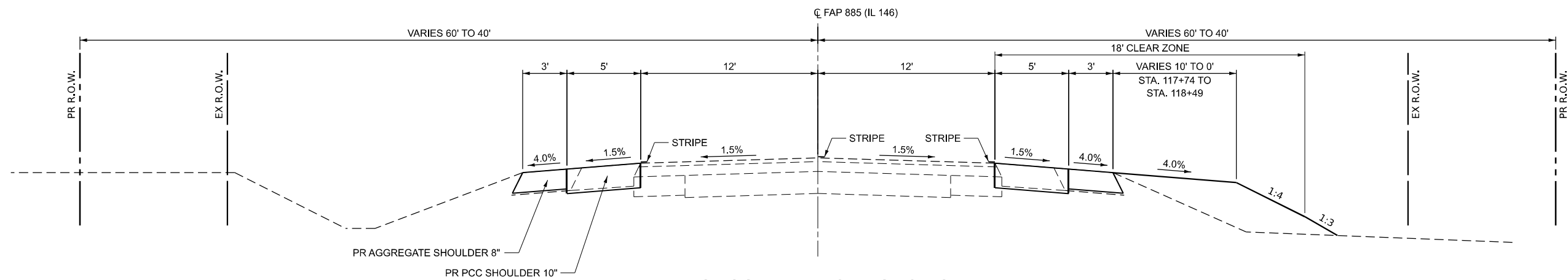
PROPOSED TYPICAL SECTION

STA. 115+56 TO STA. 117+24



PROPOSED TYPICAL SECTION

STA. 117+24 TO STA. 117+74



PROPOSED TYPICAL SECTION

STA. 117+74 TO STA. 119+40

- ① EX HMA SURFACED PCC PAVEMENT (14 1/2")
- ② EX HMA WIDENING (8")
- ③ EX 4' HMA SHOULDER (8")
- ④ EX 4' AGG SHOULDER (8")
- ⑤ PR PCC PAVEMENT 10"
- ⑥ PR PCC SHOULDER 10"
- ⑦ PR AGG SHOULDER 8"
- ⑧ PR POROUS GRANULAR EMBANKMENT
- ⑨ MAX. PAY LIMITS OF POROUS GRANULAR EMBANKMENT (TYP.)

MODEL: Typical Section (Sheet)
 FILE NAME: I:\2023\23044 [DOT D9 - PTB 207-948 - PE H] \BB\091-2030\CAD\Drawings\DOT D9-PTB 207-948-PE H\2030-shr-Typical_Rdwy.PRDgn



USER NAME = Ismaily	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/19/2026	DATE - 1/25/26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION
SN 091-2030 (P)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	51
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)

TREE REMOVAL SCHEDULE					
LOCATION			COMMENT	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
STATION		OFFSET		UNIT	UNIT
STRUCTURE NO. 091-2030					
116+95	LT	55 FT		8	
117+00	LT	55 FT			44
117+05	RT	25 FT			38
117+60	LT	50 FT		10	
117+65	LT	45 FT		8	
117+70	LT	45 FT			31
118+35	RT	25 FT			40
	TO				
TOTAL				26	153

TEMPORARY CONCRETE BARRIER SCHEDULE						
LOCATION		TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
STATION TO STATION	COMMENT	FOOT	EACH	FOOT	EACH	EACH
STRUCTURE NO. 091-2030						
STAGE I						
115+99					1	
115+99	TO 116+99	100				
116+99	TO 117+99	100				
117+99	TO 118+99	100				
116+86.5	TO 117+11.5		3			
117+11.5	TO 117+86.5		18			
117+86.5	TO 118+11.5		3			
118+99					1	
STAGE II						
115+99						1
115+99	TO 116+99			100		
116+99	TO 117+99			100		
117+99	TO 118+36.4			37.5		
116+86.5	TO 117+11.5		3			
117+11.5	TO 117+86.5		18			
117+86.5	TO 118+11.5		3			
118+99						1
TOTAL		300	48	237.5	2	2

DRAINAGE SCHEDULE					
LOCATION		COMMENT	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 15"	ME IAL FLARED END SECTIONS 15"
STATION	TO STATION		FOOT	FOOT	EACH
STRUCTURE NO. 091-2030					
117+69	LT TO 118+03	15" CMP	34		
117+70	LT TO 118+04			36	
117+70	LT				1
118+04	LT				1
TOTAL			34	36	2

PAVEMENT MARKING SCHEDULE						
LOCATION			NOTES	PAVEMENT MARKING REMOVAL - GRINDING	PAINT PAVEMENT MARKING - LINE 4"	
STATION	TO	STATION		SQ FT	WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 091-2030						
114+30.00	TO	121+10.00	SKIPDASH	57		170
114+30.00	TO	121+10.00	NB NO PASSING	227		680
114+30.00	TO	121+10.00	LEFT SOLID WHITE	227	680	
114+30.00	TO	121+10.00	RIGHT SOLID WHITE	227	680	
SUBTOTAL					1360	850
TOTAL				738	2,210	

PAVEMENT SCHEDULE				
LOCATION		WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PAVEMENT REMOVAL
STATION	TO STATION	SQ YD	SQ YD	SQ YD
STRUCTURE NO. 091-2030				
117+24	TO 117+74	133.3	133.3	133.3
TOTAL		134	134	134

SHOULDER SCHEDULE					
LOCATION		EXCAVATING AND GRADING EXISTING SHOULDER	PAVED SHOULDER REMOVAL	AGGREGATE SHOULDERS, TYPE B 8"	PORTLAND CEMENT CONCRETE SHOULDERS 10"
STATION	TO STATION	UNIT	SQ YD	SQ YD	SQ YD
STRUCTURE NO. 091-2030					
115+56	LT TO 119+40	LT	3.8	170.7	128.0
115+61	RT TO 119+38	RT	3.8	167.6	125.7
117+74	LT TO 118+04	LT			44.0
TOTAL		8	339	298	423

GUARDRAIL SCHEDULE			
LOCATION		COMMENT	GUARDRAIL REMOVAL
STATION	TO STATION		FOOT
STRUCTURE NO. 091-2030			
115+75	LT TO 117+75	LT	212
115+43	RT TO 118+67	RT	324
TOTAL			536

MODEL: Schedule Sheet 1
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE-HI\BB\091-2030\CAD\Drawings\091-2030-sht-Schedule.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/17/2026	DATE - 8/28/25	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES SN 091-2030 (P)			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	52
CONTRACT NO. 78A13			ILLINOIS FED. AID PROJECT	
*** (30G,104A)(B-1);(13,14A)(CR-1)				

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
STATION TO STATION	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD
STRUCTURE NO. 091-2030							
	281	25%	211	437	226		226
TOTAL	281						226

ROW MARKER SCHEDULE		
LOCATION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
STATION	OFFSET	EACH
115+50	40' RT	1
115+50	50' RT	1
116+00	40' LT	1
116+00	50' LT	1
116+75	50' RT	1
116+75	60' RT	1
116+75	50' LT	1
116+75	60' LT	1
118+00	40' RT	1
118+00	60' RT	1
118+00	40' LT	1
118+00	60' LT	1
TOTAL		12

SEEDING/EROSION CONTROL SCHEDULE														
LOCATION		AREA	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER
STATION	TO STATION	SQ FT	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	POUND	FOOT	EACH	FOOT
STRUCTURE NO. 091-2030														
115+56	LT TO 119+40 LT	4681	0.11	0.11	10	10	10	0.22	0.11	322	22			
115+61	RT TO 119+38 RT	5769	0.15	0.15	14	14	14	0.30	0.15	796	30			
118+04	LT		0.00	0.00	0	0	0	0.00	0.00		0		1	
117+20	LT		0.00	0.00	0	0	0	0.00	0.00		0	10		
117+56	LT											10		
115+50	RT TO 119+50 RT													333
115+50	LT TO 119+50 LT													234
TOTAL			0.26	0.26	24	24	24	0.52	0.26	1,118	52	20	1	567

MODEL: Schedule Sheet 2
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BB\091-2030\CAD\Drawings\DOT D9-13-091-2030-sht-Schedule.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 8/28/25	REVISED -

DESIGNED - JRS	REVISED -
DRAWN - MDS	REVISED -
CHECKED - JRS	REVISED -
DATE - 8/28/25	REVISED -

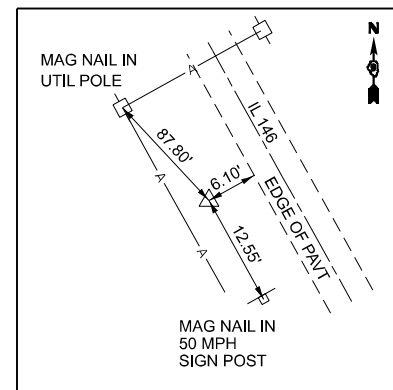
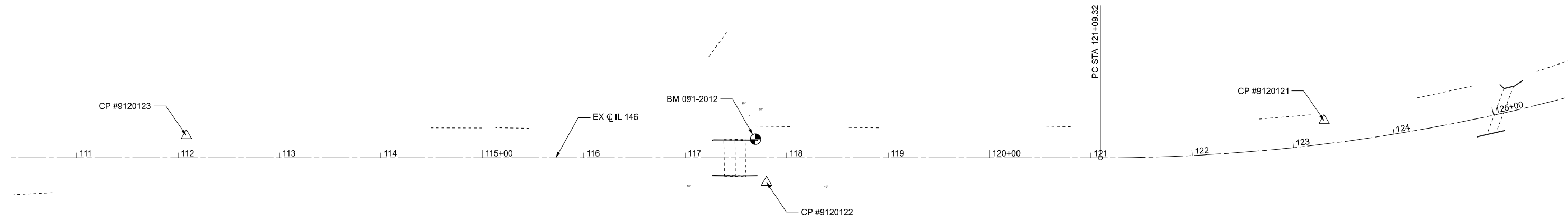
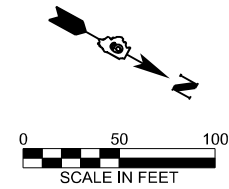
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SN 091-2030 (P)			
SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	53
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

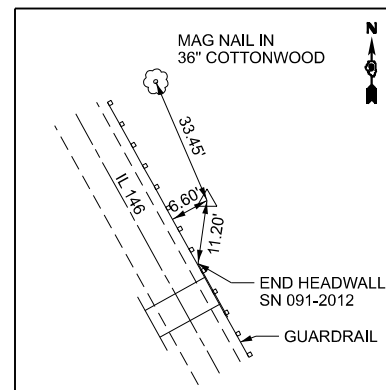
*** (30G,104A)(B-1);(13,14A)(CR-1)

EX CURVE
 PI STA = 130+10.08
 $\Delta = 52^{\circ}55'29''$ (LT)
 $D = 03^{\circ}09'58''$
 $R = 1,809.64'$
 $T = 900.77'$
 $L = 1671.58'$
 $E = 211.79'$
 $e =$
 PC STA = 121+09.32
 PT STA = 137+84.52



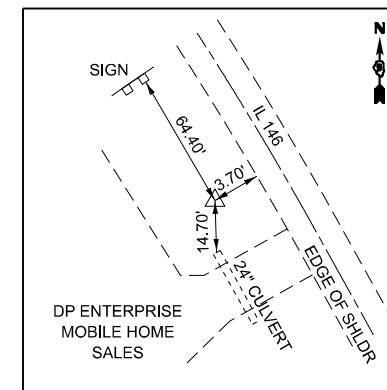
CONTROL POINT #9120123

IRON PIN W/ CAP
 STA. 112+08.17, 21.80' LT.
 N 290510.573
 E 2552131.909
 ELEV 436.56



CONTROL POINT #9120122

IRON PIN W/ CAP
 STA. 117+80.22, 24.15' RT.
 N 291033.153
 E 2551894.714
 ELEV 431.91



CONTROL POINT #9120121

IRON PIN W/ CAP
 STA. 123+33.24, 23.00' LT.
 N 291484.338
 E 2551575.024
 ELEV 430.75

BENCHMARKS

BM 091-2012
 "□" CUT IN SW CORNER OF RETAINING WALL ON WEST SIDE OF BOX CULVERT 091-2012, ±15' SOUTH OF IL 146.
 ELEV. 433.41

MODEL: ATB Sheet
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HJ\B\091-2030\CAD\Drawings\091-2030-sh+ATB.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
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PLOT DATE = 1/26/2026	DATE - 7/25/25	REVISED -

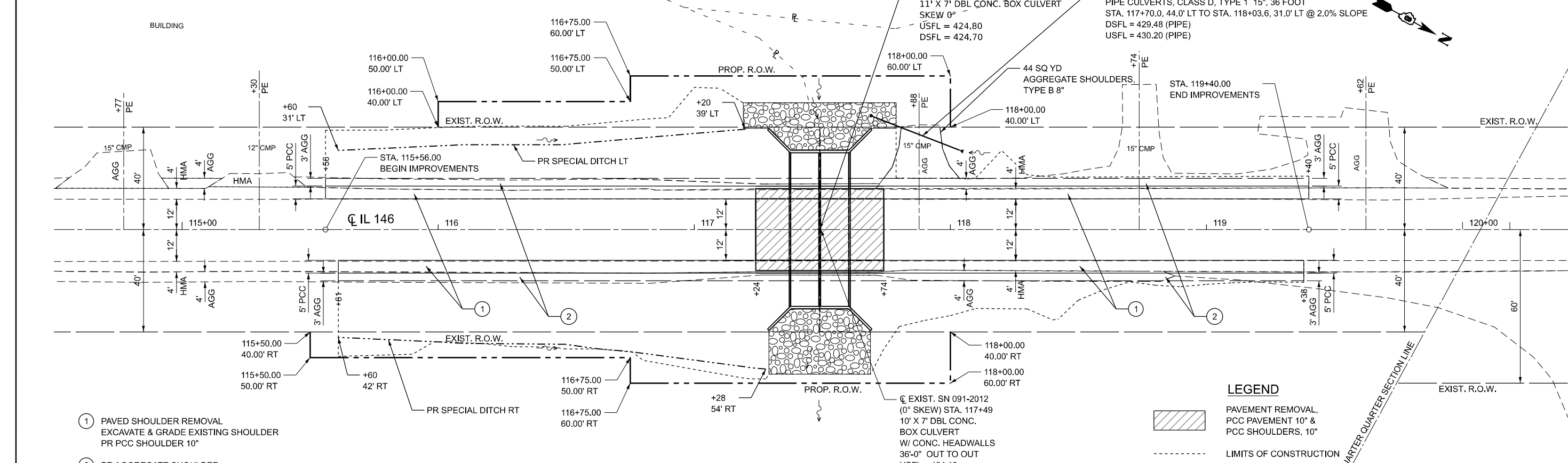
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 SN 091-2030 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	54
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)

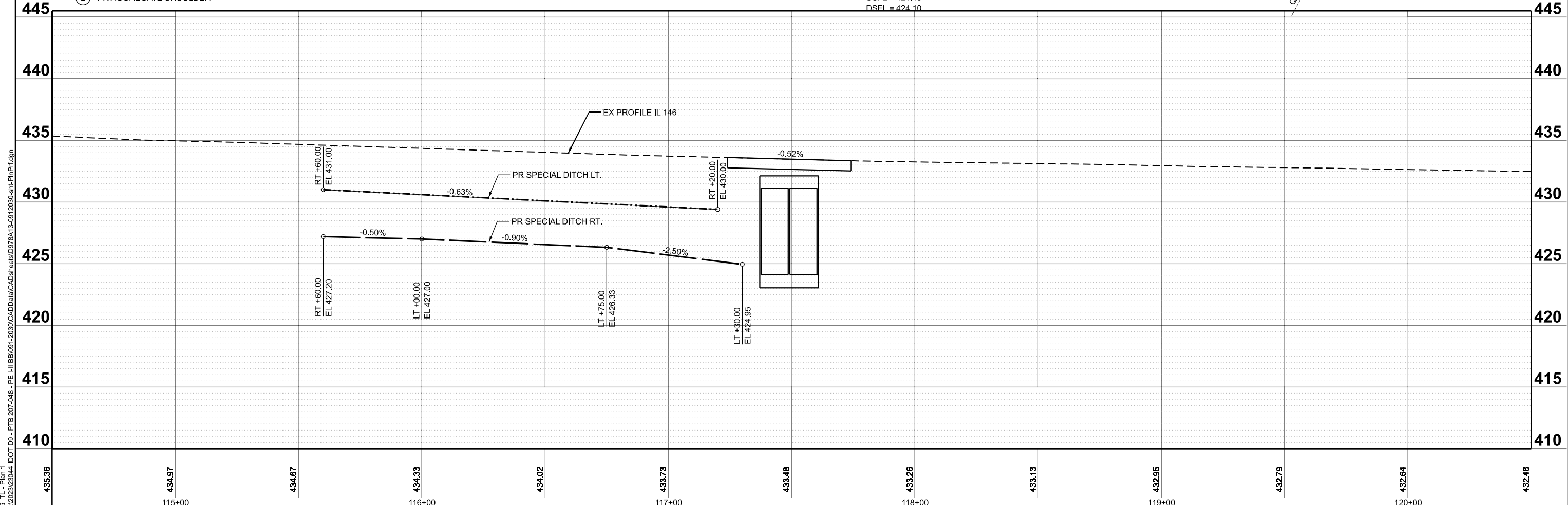


- ① PAVED SHOULDER REMOVAL
EXCAVATE & GRADE EXISTING SHOULDER
PR PCC SHOULDER 10"
- ② PR AGGREGATE SHOULDER

LEGEND

PAVEMENT REMOVAL, PCC PAVEMENT 10" & PCC SHOULDERS, 10"

LIMITS OF CONSTRUCTION



MODEL: IL 146_TL - Plan 1
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE_H\B\091-2030\CAD\Drawings\978A13-0912030-shp-Plan1.dgn

KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 2nd Floor
 Springfield, IL 62762
 Phone: 217-681-0044

USER NAME = Ismaly	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 3/13/2026	DATE - 9/02/25	REVISED -

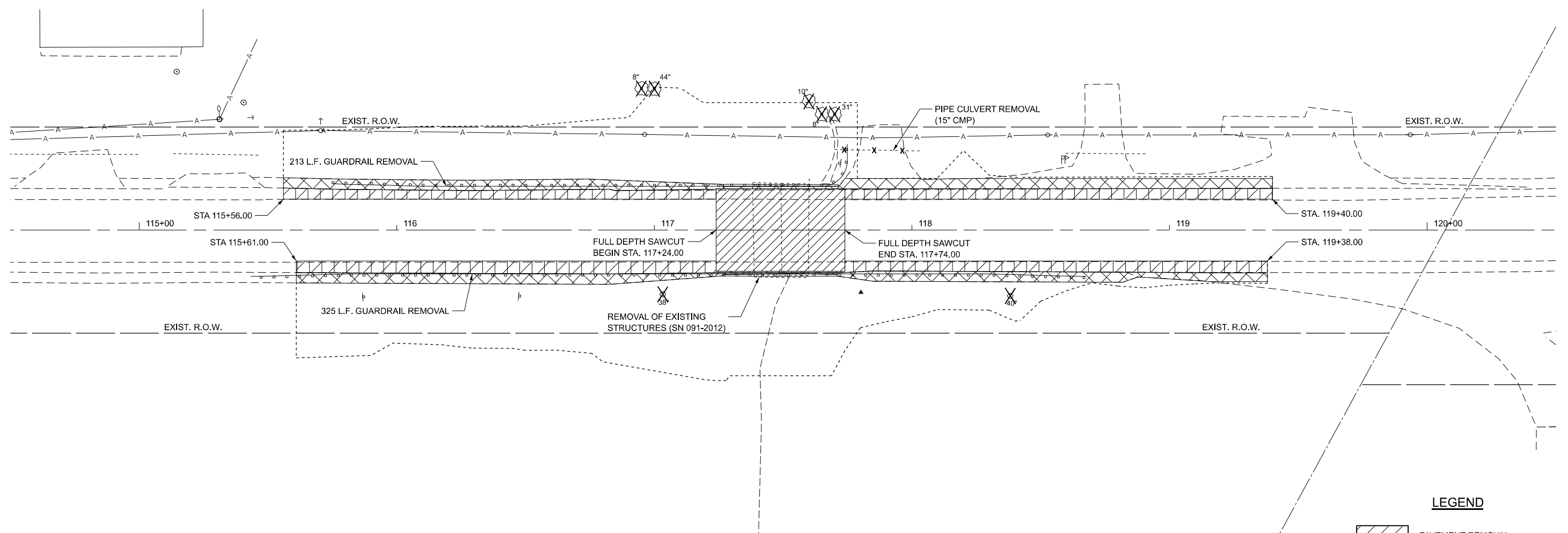
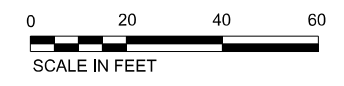
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE
SN 091-2030 (P)**


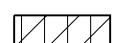



SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 114+50.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	55
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



LEGEND

-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  EARTH EXCAVATION (WIDENING)
-  PIPE CULVERT REMOVAL
-  TREE REMOVAL

MODEL: IL_146_TL-1 - Plan 1 (Sheet)
 FILE NAME: P:\2024\11E2402_PTB_207-448.D9 PH_LH_K&T\CADD\CADD_Sheets\091-2030\CADDData\CADD_Sheets\091-2030-eh-Removal.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

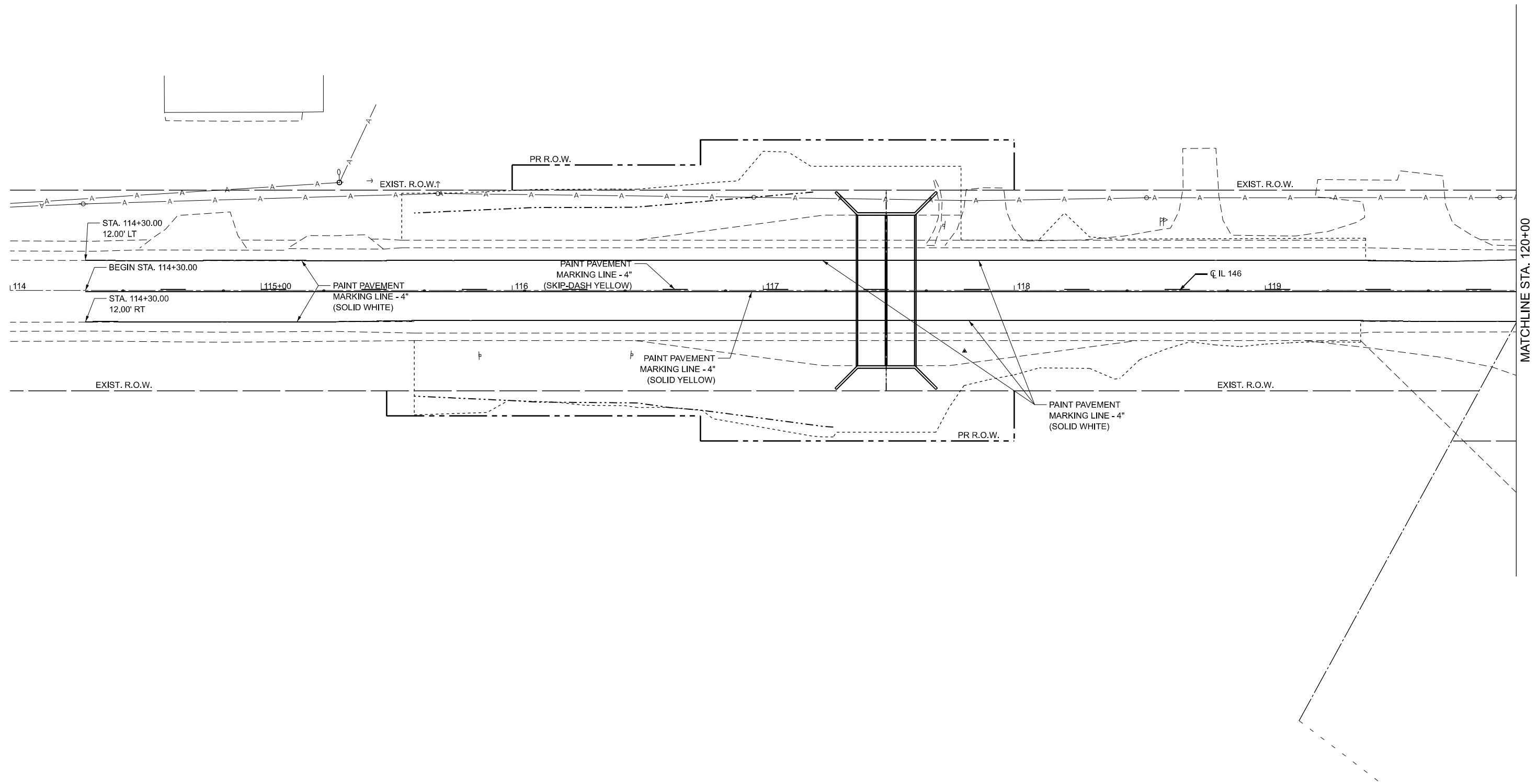
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
SN 091-2030 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 114+50.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	56
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• *** (30G, 104A)(B-1); (13, 14A)(CR-1)



MODEL: IL_146_PMK_plans-1 [Sheet]
 FILE NAME: P:\2024\ME\402_PTB_207-448.D9 PH_L1_K&T\CADD\CADD_Sheets\091-2030\CADDData\CADD_Sheets\ID978A13-0912030-eh-PMK.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - MA/LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

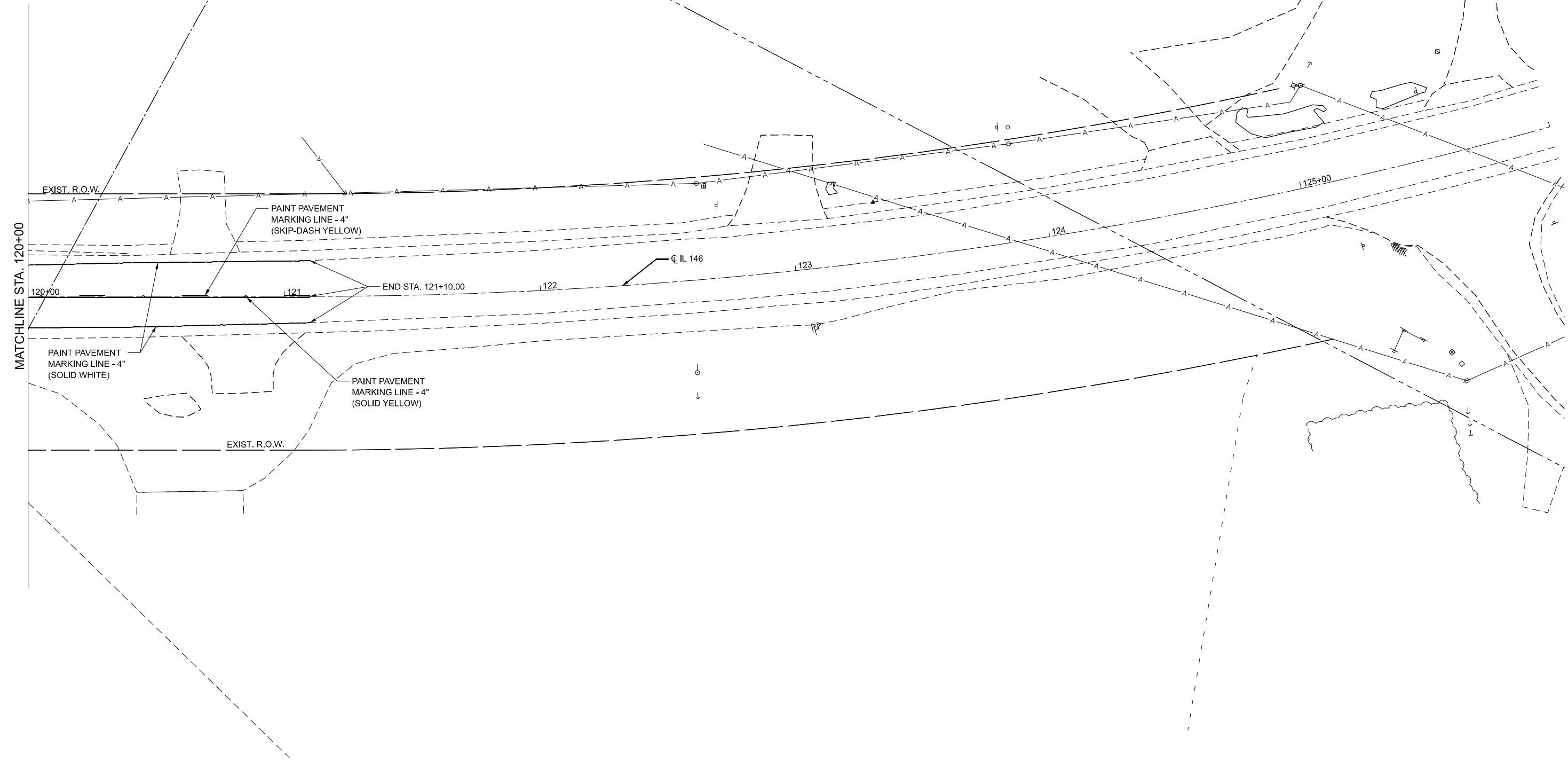
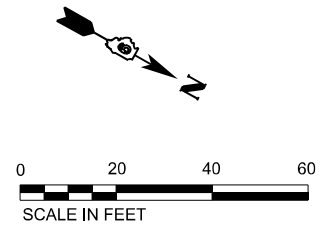
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
SN 091-2030 (P)

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 114+00.00 TO STA. 120+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	57
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• *** (30G, 104A)(B-1); (13.14A)(CR-1)



MODEL: IL_146_PMK_plan-2 (Sheet)
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MATCHLINE STA. 120+00



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

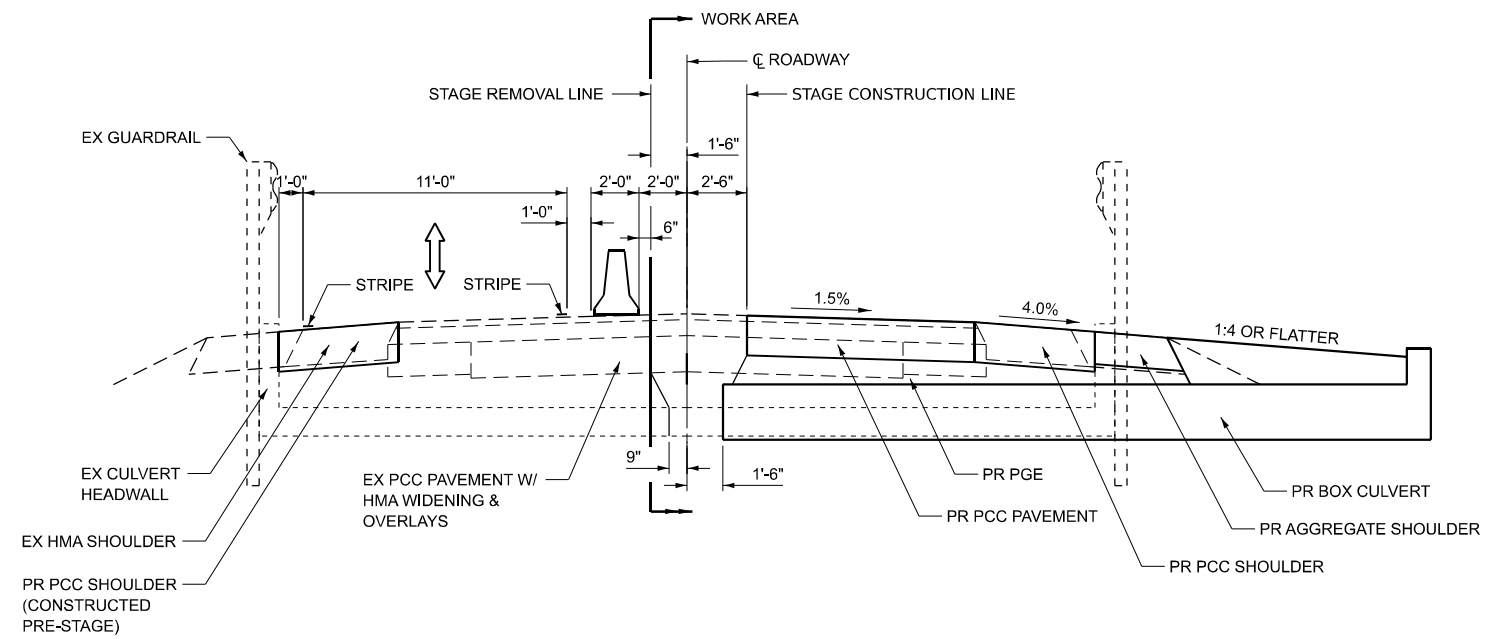
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
SN 091-2030 (P)**

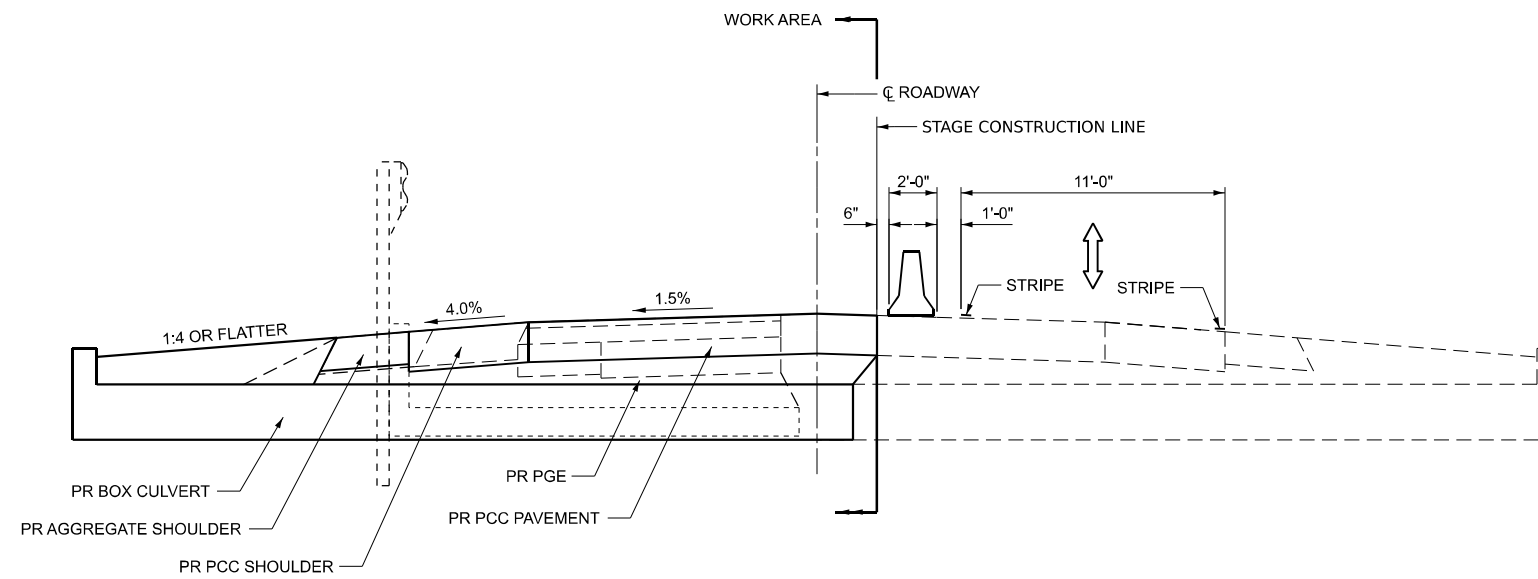
SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 120+00.00 TO STA. 126+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	58
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• ***(30G, 104A)(B-1);(13,14A)(CR-1)



TYPICAL SECTION - STAGE 1



TYPICAL SECTION - STAGE II

MODEL: Typical Section (Sheet)
 FILE NAME: I:\2023\23044 [DOT D9 - PTB 207-948 - PE HI] \B\091-2030\CAD\Drawings\0912030-sh1-Stage1r1.dwg



USER NAME = Ismailay	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/28/2026	DATE - 1/25/26	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

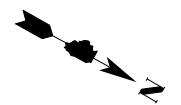
STAGE CONSTRUCTION TYPICAL SECTIONS
 SN 091-2030 (P)

SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

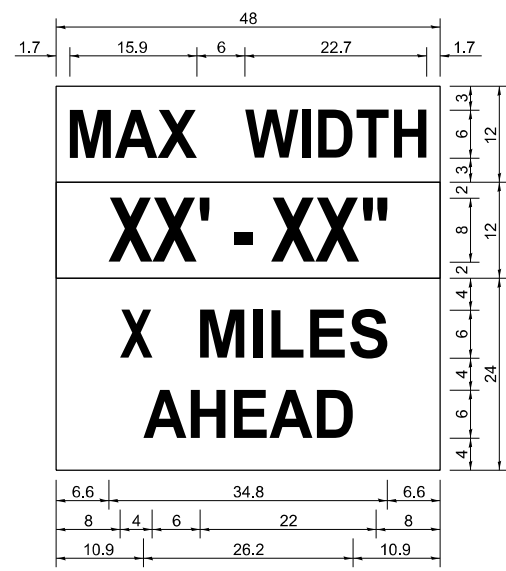
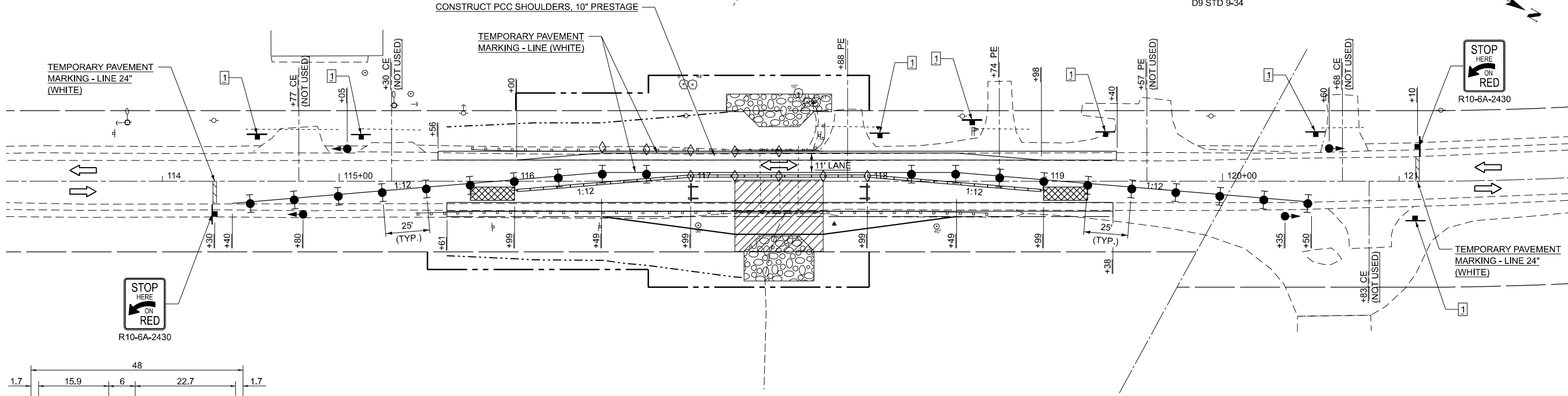
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	59
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
 *** (30G,104A)(B-1);(13,14A)(CR-1)

CAUTION
ONE LANE ROAD
FOLLOW TRAFFIC
FLOW
D9 STD 9-34



STOP
HERE
ON
RED
R10-6A-2430



W12-I103 (WIDTH IS 80)
NO BORDER, BLACK ON WHITE:
[MAX WIDTH] D:

NO BORDER, BLACK ON ORANGE:
[XX' - XX\"] D:

NO BORDER, BLACK ON WHITE:
[X MILES] D; [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

W12-I103

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

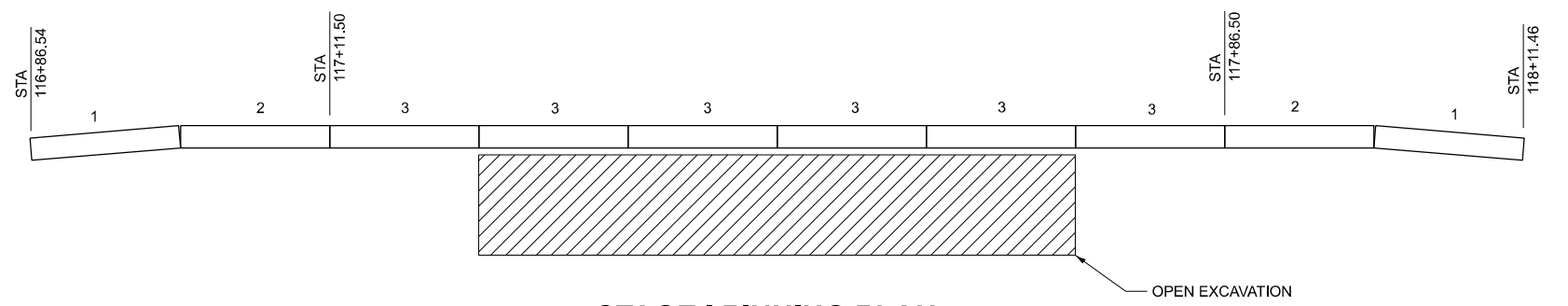
STAGE I PLAN

GENERAL NOTES

1. THE PRE-STAGE I CONSTRUCTION SHALL INCLUDE THE PCC SHOULDERS ALONG THE SOUTHBOUND LANE (PRIOR TO PLACING THE TEMPORARY CONCRETE BARRIER).
2. CONSTRUCT THREE RUMBLE STRIPS IN EACH DIRECTION ON IL 146.
3. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
4. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 2-PHASE SIGNAL.
5. ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321. SIGN PLACEMENT TO BE DETERMINED BY RESIDENT ENGINEER.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHALL BE 11'-6\"/>
- 7. ANY TIME THE CONCRETE BARRIER IS NOT ON THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- 8. THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE IMPACT ATTENUATORS.
- 9. THE STAGE I CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BOX CULVERTS, GUARDRAIL, AND PCC SHOULDERS AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- 10. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS. THE COST FOR ADDITIONAL ITEMS SHOWN ON THIS SHEET IS INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

LEGEND

- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC SIGNAL
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- CRYSTAL, BI-DIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



STAGE I PINNING PLAN



USER NAME	= Ismailly	DESIGNED	- JRS	REVISED	-
		DRAWN	- LS	REVISED	-
		CHECKED	- JRS	REVISED	-
		DATE	- 1/25/26	REVISED	-
PLOT DATE	= 3/2/2026				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION - STAGE I
SN 091-2030 (P)

SCALE: 1"=30' SHEET 5 OF 9 SHEETS STA. 114+50.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	60
CONTRACT NO. 78A13				

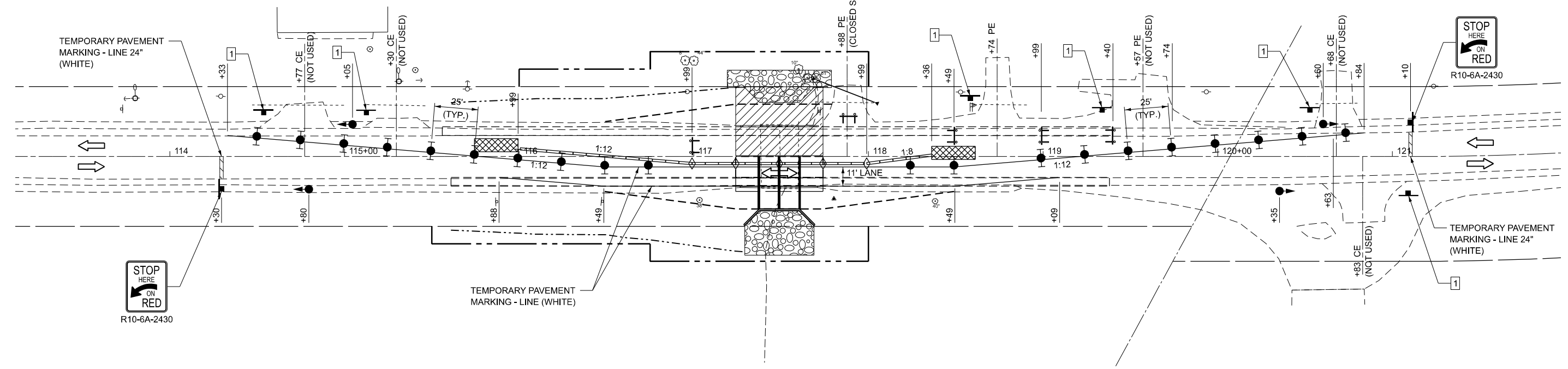
ILLINOIS FED. AID PROJECT
*** (30G,104A)(B-1);(13,14A)(CR-1)

MODEL: SN0912012 - Staging Plan Sheet
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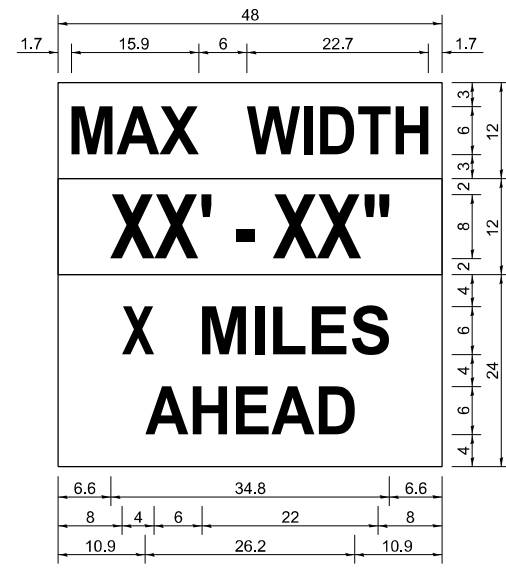
CAUTION
ONE LANE ROAD
FOLLOW TRAFFIC
FLOW
D9 STD 9-34



STOP
HERE
ON
RED
R10-6A-2430



STAGE II PLAN



W12-1103 (WIDTH IS 80)
NO BORDER, BLACK ON WHITE:
[MAX WIDTH] D:

NO BORDER, BLACK ON ORANGE:
[XX' - XX\"] D:

NO BORDER, BLACK ON WHITE:
[X MILES] D; [AHEAD] D:

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

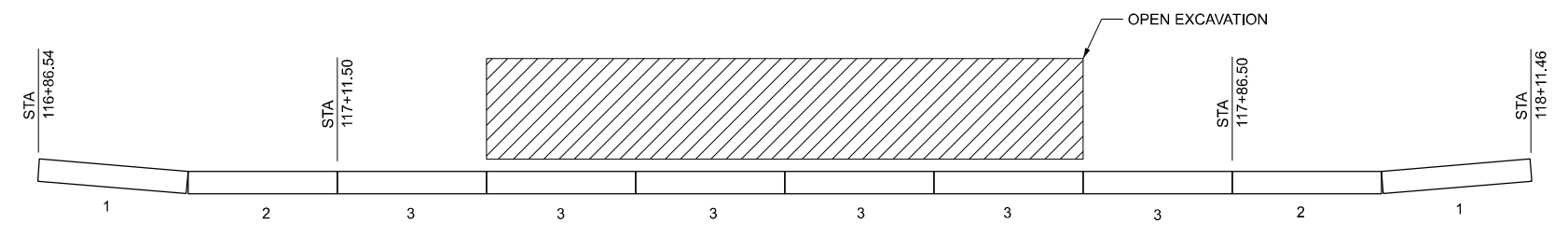
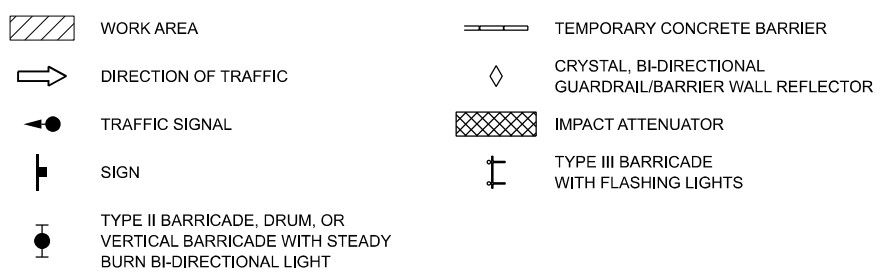
W12-1103

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY ENGINEER.
ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

GENERAL NOTES

- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 2-PHASE SIGNAL.
- ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321. SIGN PLACEMENT TO BE DETERMINED BY RESIDENT ENGINEER.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHALL BE 10'-6" FOR STAGE II CONSTRUCTION
- ANY TIME THE CONCRETE BARRIER IS NOT ON THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE IMPRACT ATTENUATORS.
- THE STAGE II CONSTRUCTION SHALL INCLUDE COMPLETION OF THE EARTHWORK, BOX CULVERTS, GUARDRAIL, AND PCC SHOULDERS AS REFERENCED ON THIS SHEET AND DESCRIBED IN DETAIL ON THE PLAN AND PROFILE SHEETS.
- SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS. THE COST FOR ADDITIONAL ITEMS SHOWN ON THIS SHEET IS INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

LEGEND



STAGE II PINNING PLAN

MODEL: SN0912012 - Staging Plan Sheet
FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE-HI-LB\091-2030\CAD\Drawings\0912030-sh-StagingPlan02.dgn



USER NAME	= Ismaily	DESIGNED	- JRS	REVISED	-
		DRAWN	- LS	REVISED	-
		CHECKED	- JRS	REVISED	-
PLOT DATE	= 3/13/2026	DATE	- 1/25/26	REVISED	-

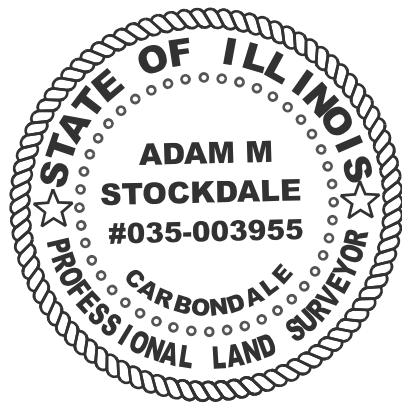
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION - STAGE II
SN 091-2030 (P)

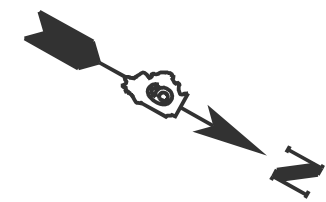
SCALE: 1"=30' SHEET 6 OF 9 SHEETS STA. 114+50.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	61
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
*** (30G,104A)(B-1);(13,14A)(CR-1)



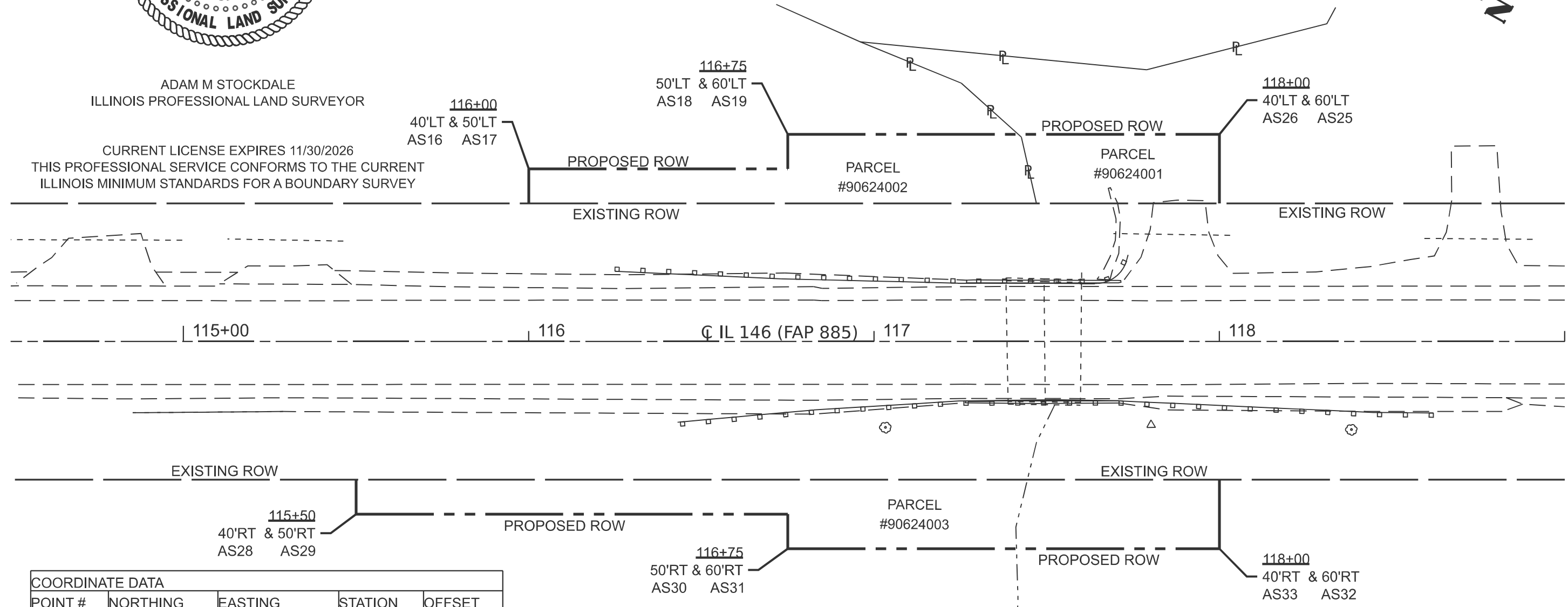
ALIGNMENT INFO		
IL 146 CENTERLINE		
POINT #	NORTHING	EASTING
POT 98+97.57	289374.932'	2552786.481'
PC 121+09.32	291309.262'	2551714.014'
PT 137+80.90 137+84.52	292223.495'	2550385.387'



SW 1/4 - NW 1/4
SECTION 24
T12S - R2W - 3RD PM

ADAM M STOCKDALE
ILLINOIS PROFESSIONAL LAND SURVEYOR

CURRENT LICENSE EXPIRES 11/30/2026
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY



COORDINATE DATA				
POINT #	NORTHING	EASTING	STATION	OFFSET
AS16	290844.434'	2551925.996'	116+00	40' LT
AS17	290839.585'	2551917.250'	116+00	50' LT
AS18	290905.178'	2551880.883'	116+75	50' LT
AS19	290900.329'	2551872.137'	116+75	60' LT
AS25	291009.650'	2551811.525'	118+00	60' LT
AS26	291019.348'	2551829.017'	118+00	40' LT
AS28	290839.497'	2552020.207'	115+50	40' RT
AS29	290844.346'	2552028.952'	115+50	50' RT
AS30	290953.667'	2551968.340'	116+75	50' RT
AS31	290958.516'	2551977.086'	116+75	60' RT
AS32	291067.838'	2551916.474'	118+00	60' RT
AS33	291058.140'	2551898.983'	118+00	40' RT

PARCEL #	PURPOSE	ACREAGE
90624001	ROW	0.025 ACRES
90624002	ROW	0.049 ACRES
90624003	ROW	0.086 ACRES

NOTES:
REFERENCE TO A SURVEY BY SHAWNEE PROFESSIONAL SERVICES DATED 1/8/2024.
REFERENCE TO AN ALIGNMENT BY IDOT DATED 1/13/2022.
COORDINATES BASED ON NAD 83 (97ADJ) ILLINOIS WEST ZONE.

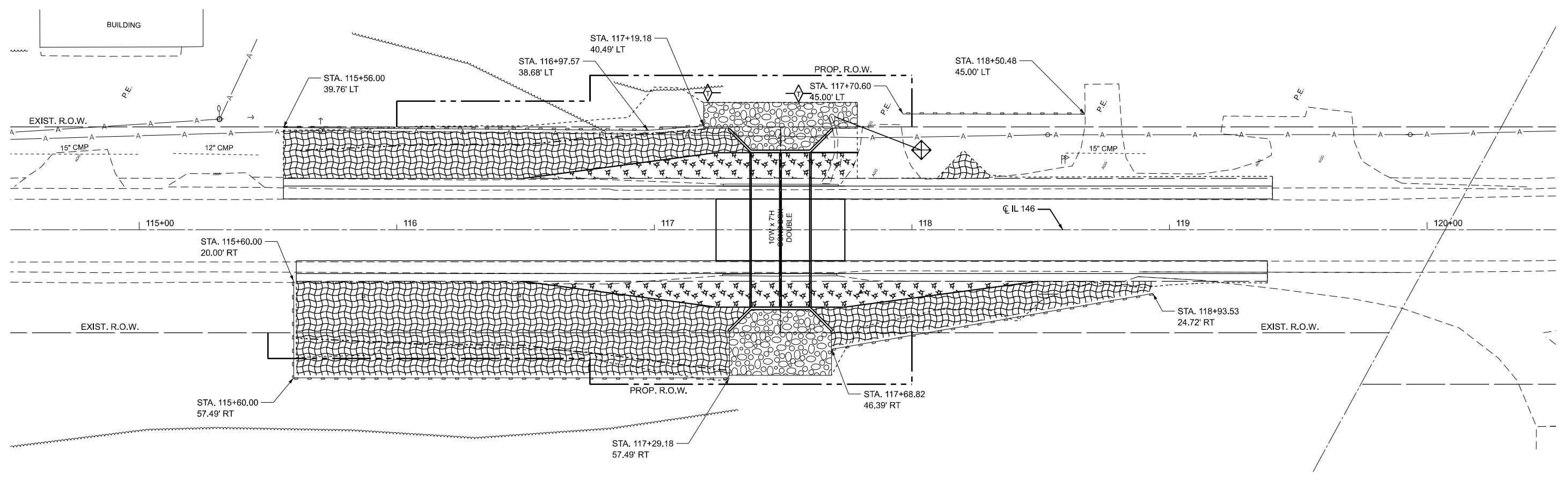
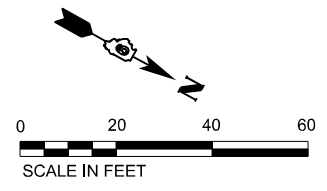
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USER NAME = adam.stockdale	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 1/27/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1"=30 FEET		PROJECT SHEET 1 OF 1 SHEETS	JOB NO. R-99-006-24 STA. 114+50 TO STA. 119+00	F.A.P. RTE. 885	SECTION 104A(B-1)	COUNTY UNION	TOTAL SHEETS 114	SHEET NO. 62
				IL 146; SEC 24 - T12S - R2W		CONTRACT NO. 78A13		
				FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



LEGEND

	EROSION CONTROL BLANKET
	MULCH METHOD 2
	CONSTRUCTION LIMITS
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER

MODEL: IL146 - ERO CONTROL [Sheet]
 FILE NAME: P:\2024\11E2402_PTB_207-048_D9 PH HI_K&T\CADD\CADD_Sheets\091-2030\CADData\CAD_Sheets\I878A13\0912030-err-ERO CONTROL.dgn



USER NAME = lharrell	DESIGNED - MJR	REVISED -
	DRAWN - MALH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

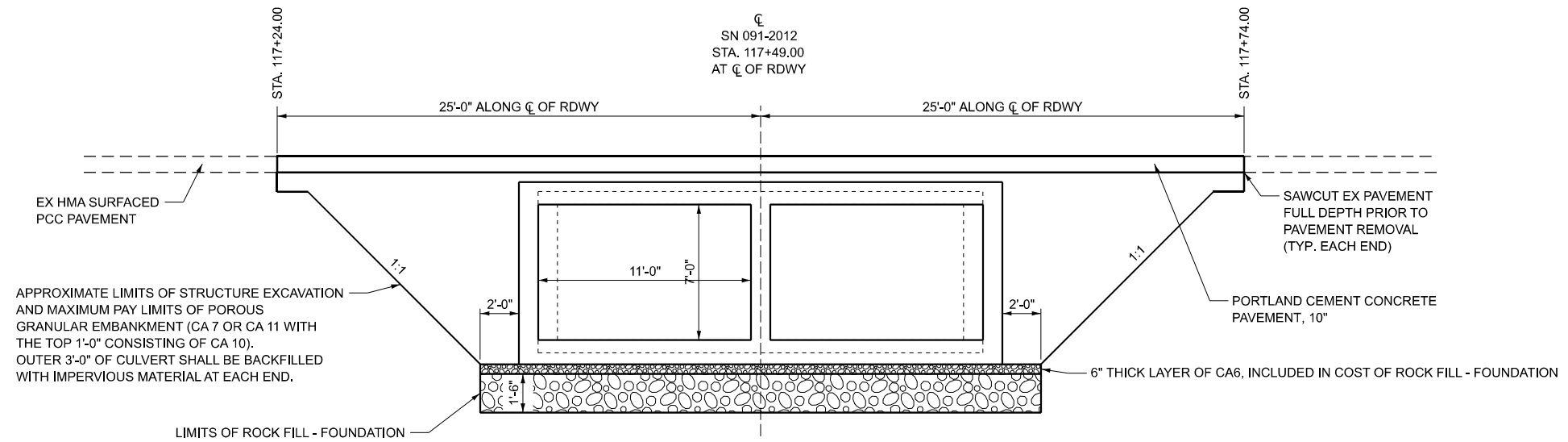
**EROSION CONTROL PLAN
SN 091-2030 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 114+50.00 TO STA. 120+50.00

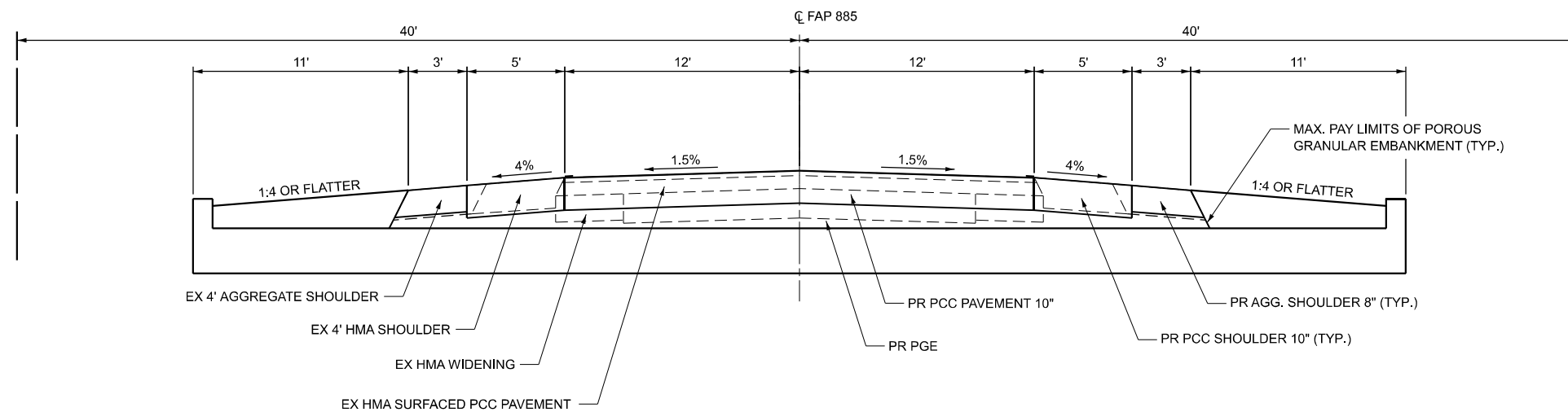
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	63
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

***[30G, 104A)(B-1);(13,14A)(CR-1)

LIMITS OF POROUS GRANULAR EMBANKMENT



PROPOSED CULVERT LONGITUDINAL SECTION



MODEL: Typical Section (Sheet) FILE NAME: I:\2023\23044 [DOT] D9 - PTB 207-948 - PE HI\BB\091-2030\CAD\Drawings\0912030-shlr-Typical.dgn



USER NAME = Ismalley	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/20/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRANULAR CULVERT BACKFILL DETAILS
SN 091-2030 (P)**

SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	64
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

Benchmark: Cut square in southwest corner of retaining wall on west side of box culvert 091-2012, ± 15 ft. south of IL 146; Elev. = 433.405

Existing Structure: S.N. 091-2012 was originally constructed in 1933 as SB Route 146, Section 104-A. The structure consists of a cast-in-place, double box 10' x 7' culvert at a 0° skew.

Traffic to be maintained using stage construction.

Precast option is not allowed.

No salvage

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5 Temporary Soil Retention System
- 6 Culvert Details
- 7 Bar Splicer Assembly and Mechanical Splicer Details
- 8 Soil Boring Logs

DESIGN SPECIFICATIONS

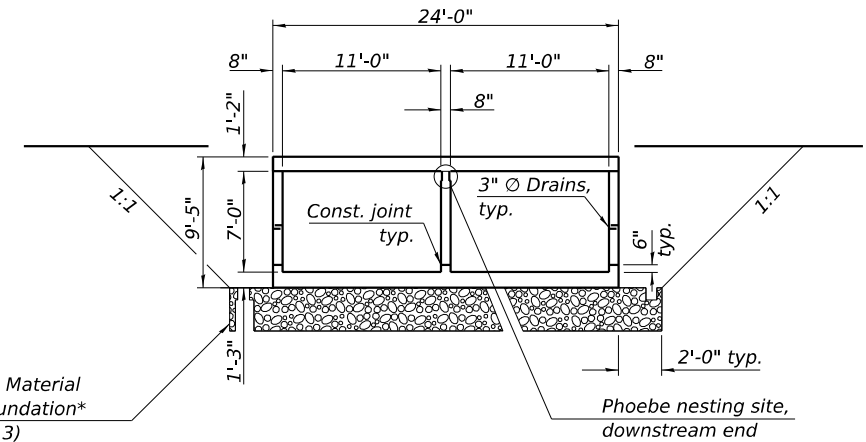
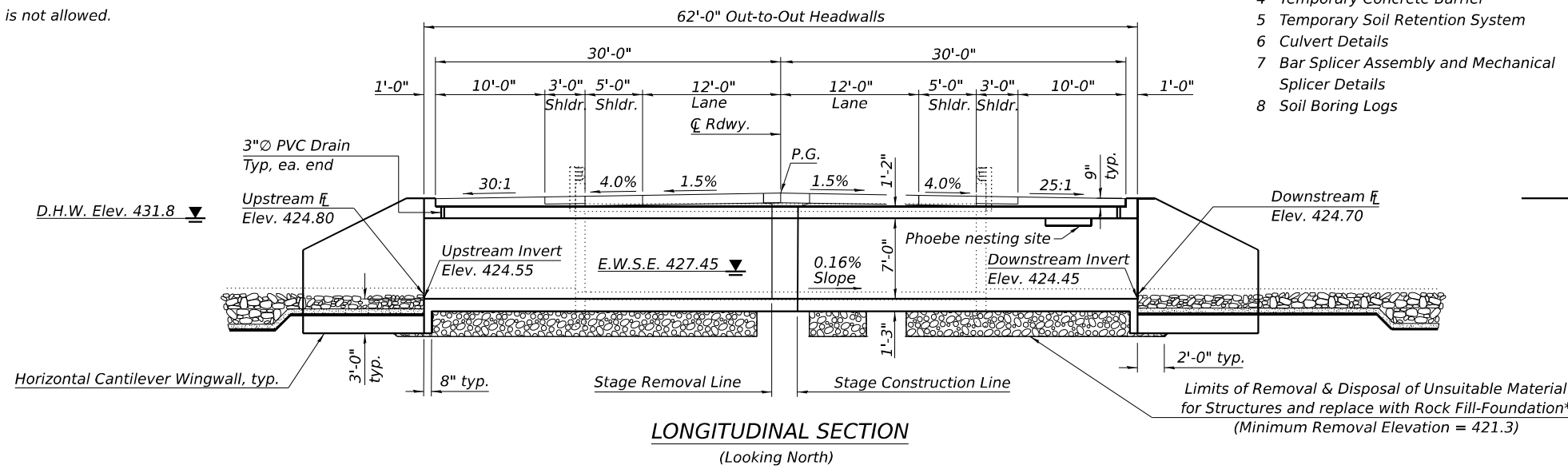
2024 AASHTO LRFD Bridge Design Specifications, 10th Edition

DESIGN STRESSES

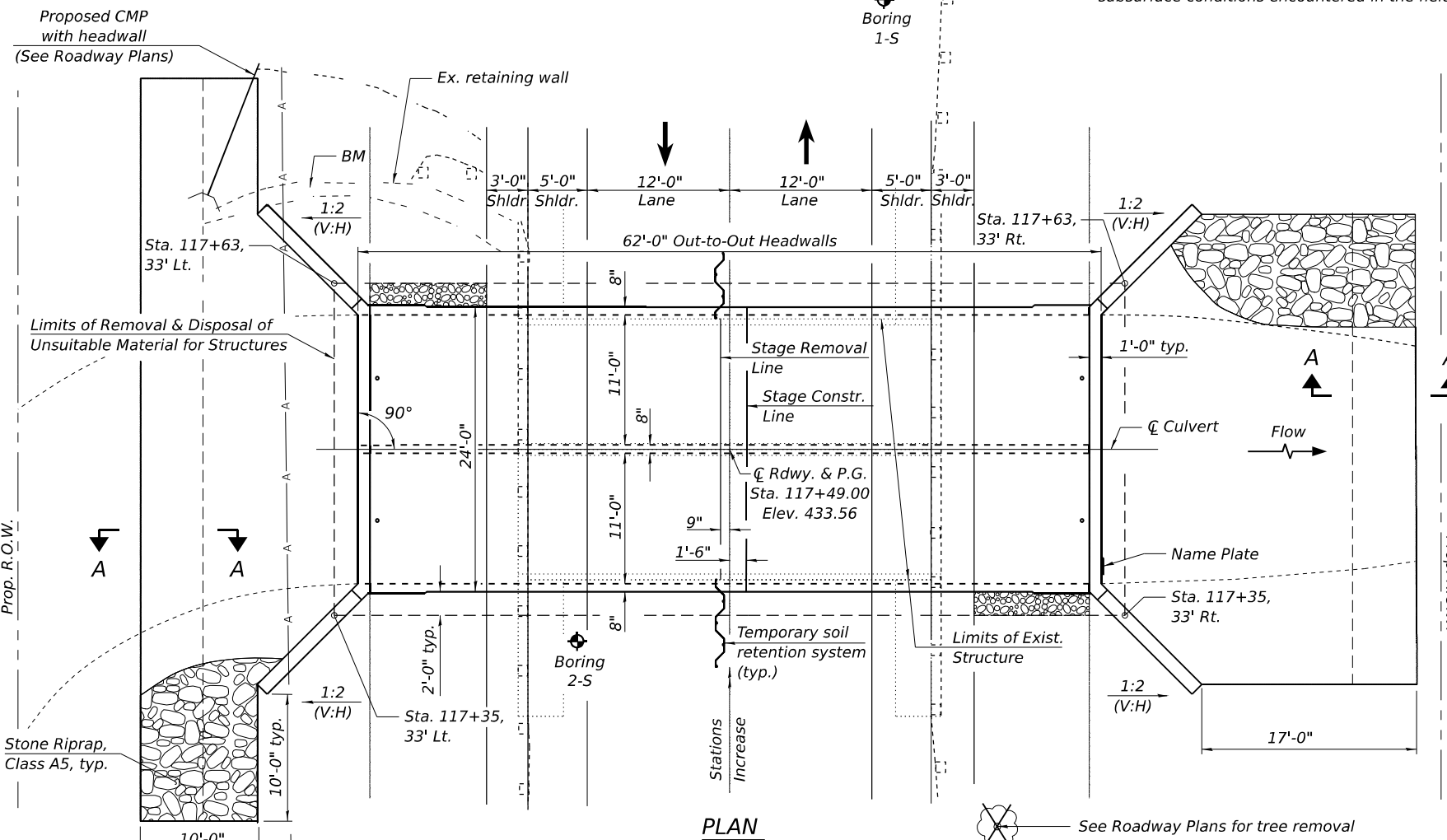
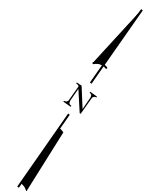
FIELD UNITS
 $f'c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$

LOADING HL-93

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

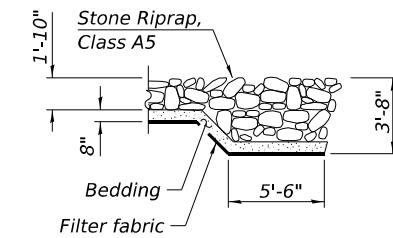
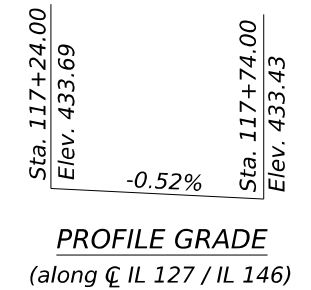


* The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

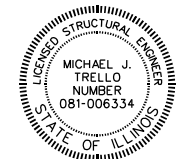


STA. 117+49.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. Rt. 885 SEC. 104A(B-1)
 LOADING HL-93
 STR. NO. 091-2030

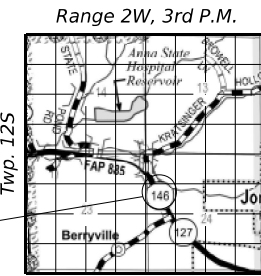
NAME PLATE
 See Std. 515001



SECTION A-A



Date: March 13, 2026
 Expires: November 30, 2026



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL 127 / IL 146 OVER STREAM
F.A.P. RTE. 885 - SEC. 104A(B-1)
UNION COUNTY
STATION 117+49.00
STRUCTURE NO. 091-2030

MODEL: GPE Sheet
 FILE NAME: I:\2023\3044 IDOT D9 - PTB 207-048 - PE - HI\BB091-2030\CADData\CADsheets\0912030-78A13-001-GPE.dgn
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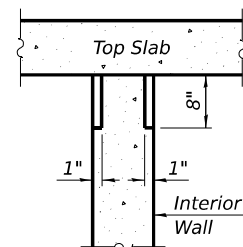
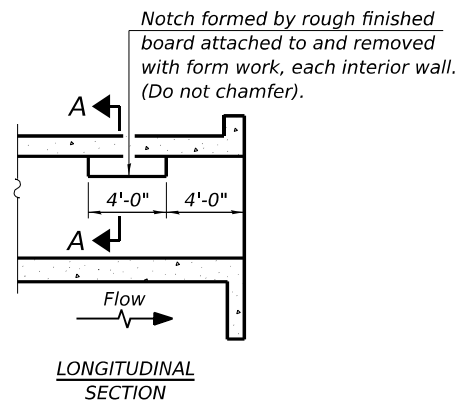
KT KUHN & TRELLO
 CONSULTING ENGINEERS
 A Limited Liability Company
 109 N. 7th Street, 2nd Floor
 Springfield, IL 62763
 Phone: 217-629-0044
 Professional Design Firm No. 284-006516

USER NAME =	DESIGNED - PDA	REVISED -
PLOT SCALE =	CHECKED - MJT	REVISED -
PLOT DATE =	DRAWN - MMY	REVISED -
	CHECKED - MJT	REVISED -

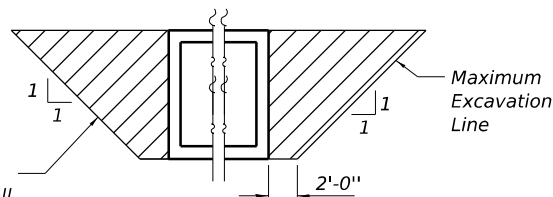
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	65
CONTRACT NO. 78A13				

SHEET 1 OF 8 SHEETS
 ILLINOIS FED. AID PROJECT



PHOEBE NESTING
SITE DETAILS
(Downstream End Only)



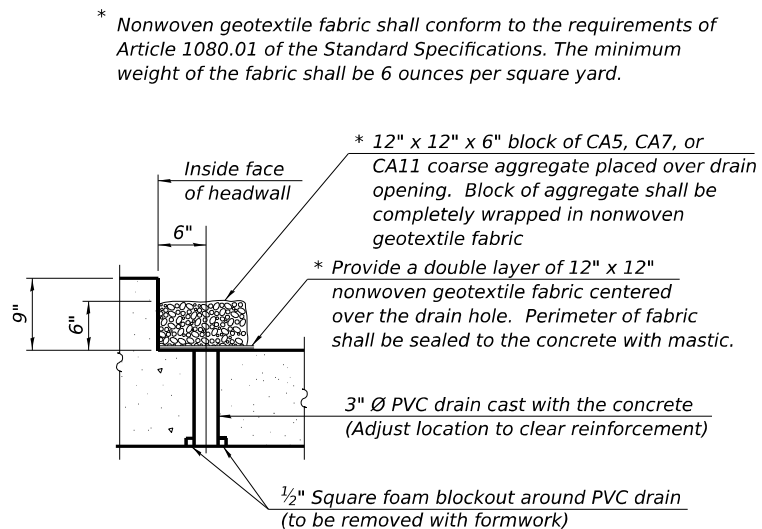
PAY LIMITS FOR POROUS GRANULAR EMBANKMENT

WATERWAY INFORMATION

Drainage Area = 1.1 Sq. Mi. Low Grade Elev. 433.2 @ Sta. 117+49

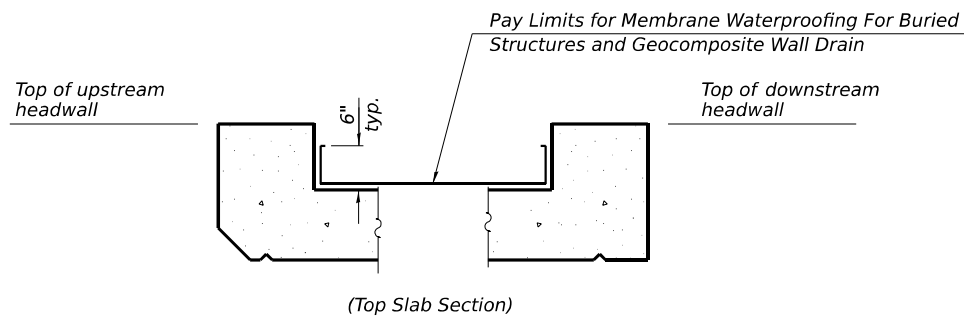
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	952	104	134	430.6	1.7	0.2	432.3	430.8
Overtop Exist.	20	1,137	114	144	431.1	2.1	0.5	433.2	431.6
Design	50	1,460	128	154	431.8	1.7	1.1	433.5	432.9
Overtop Prop.	62	1,520	131	154	431.9	1.7	1.2	433.6	433.1
Base	100	1,710	136	154	432.2	1.8	1.1	434.0	433.3
Max. Calc.	500	2,430	140	154	432.9	1.7	1.5	434.6	434.4

Existing 10 year outlet velocity = 11.5 ft/s
Proposed 10 year outlet velocity = 8.5 ft/s

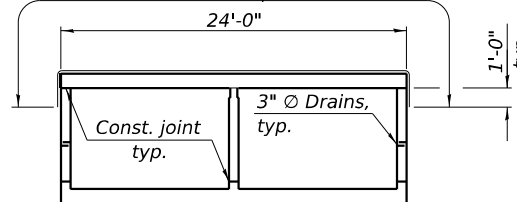


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



Pay Limits for Membrane Waterproofing For Buried Structures and Geocomposite Wall Drain



MEMBRANE WATERPROOFING DETAIL

(Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures)

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Existing structure to be removed full depth within 2 feet of the proposed culvert barrel and existing wingwall footing.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.

The Rock Fill shall be capped according to the Rock Fill - Foundation Special Provision. The cost of the capping material shall be included in the pay item for Rock Fill - Foundation.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	310
Stone Riprap, Class A5	Sq. Yd.	200
Filter Fabric	Sq. Yd.	200
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	170
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	219
Reinforcement Bars, Epoxy Coated	Pound	29,960
Bar Splicers	Each	120
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	428
Concrete Box Culverts	Cu. Yd.	186.7
Geocomposite Wall Drain	Sq. Yd.	192
* Membrane Waterproofing System for Buried Structures	Sq. Yd.	192
* Rock Fill - Foundation	Ton	220

* Special Provisions

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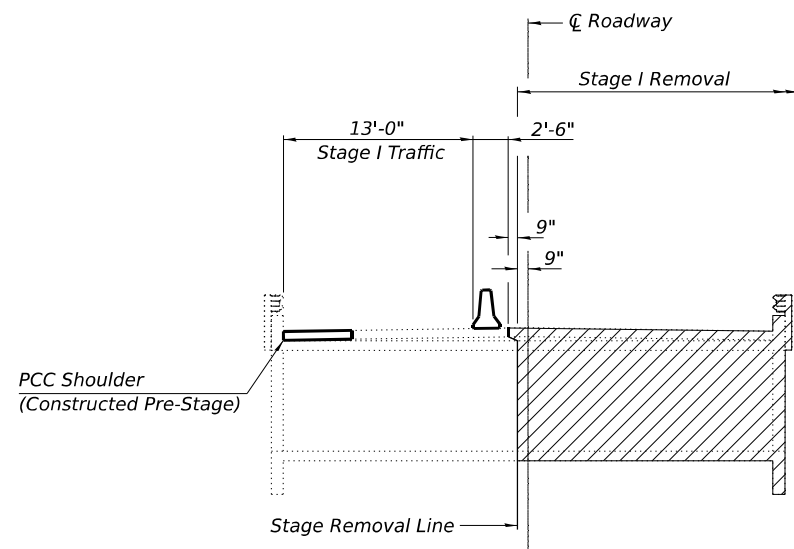
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PLOT SCALE =	CHECKED - MJT	REVISED -
PLOT DATE =	DRAWN - MMY	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

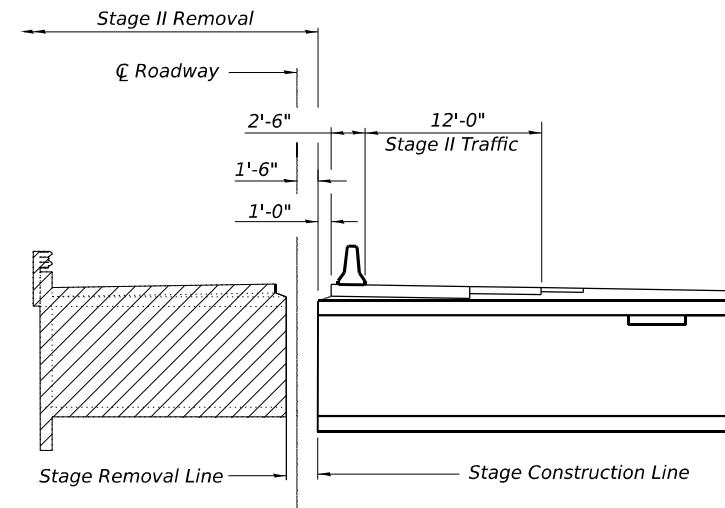
GENERAL DATA
STRUCTURE NO. 091-2030

SHEET 2 OF 8 SHEETS

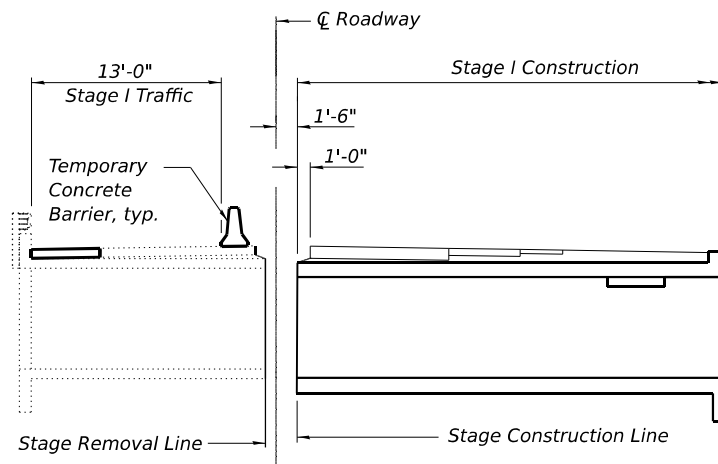
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885	104A(B-1)	UNION	114	66
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



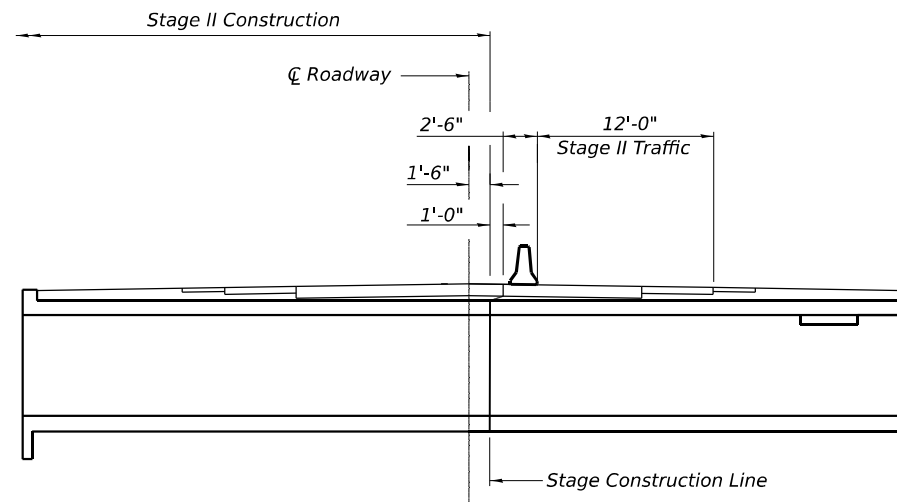
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Note:
For quantity of Temporary Concrete Barrier,
see Roadway plans.

MODEL: Sheet
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KT
K U H N & T R E L L O
CONSULTING ENGINEERS
A Limited Liability Company
109 N. 7th Street, 2nd Floor
Springfield, IL 62761
Phone: 217-629-0044
Professional Design Firm No. 284-006516

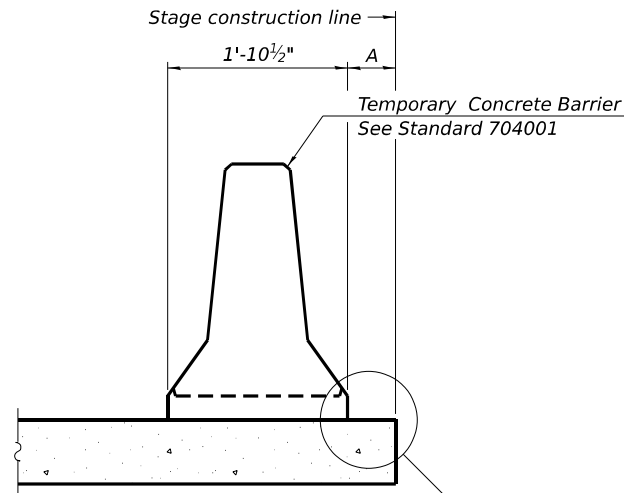
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	CHECKED - MJT	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 091-2030**

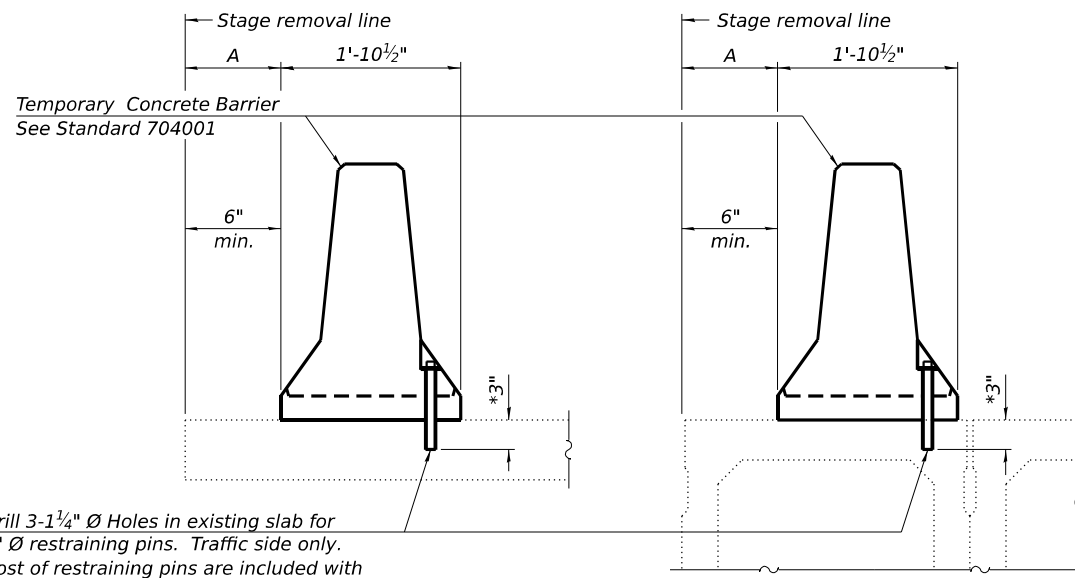
SHEET 3 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	67
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78A13	



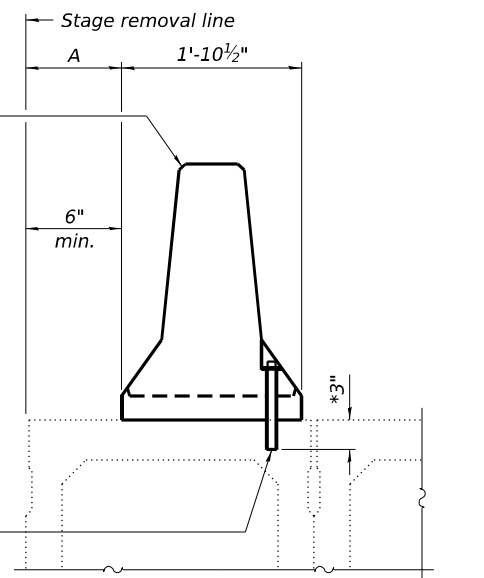
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



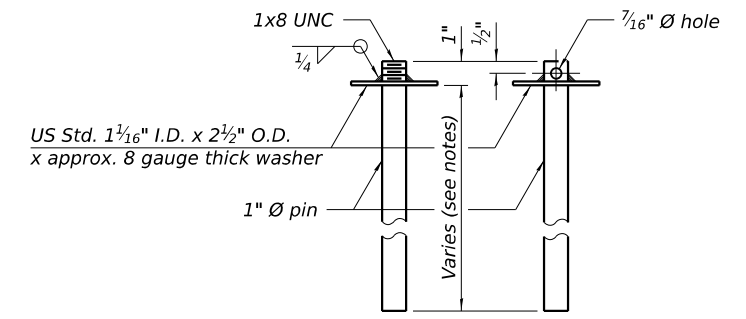
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB



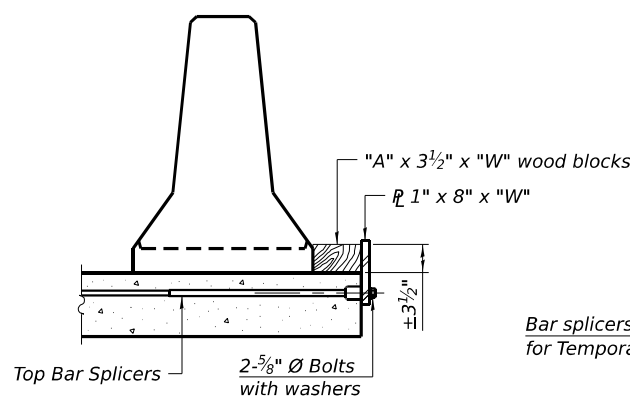
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

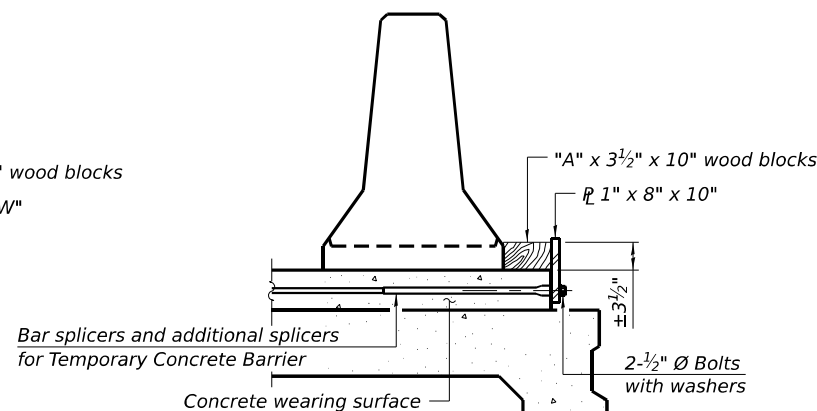


RESTRAINING PIN

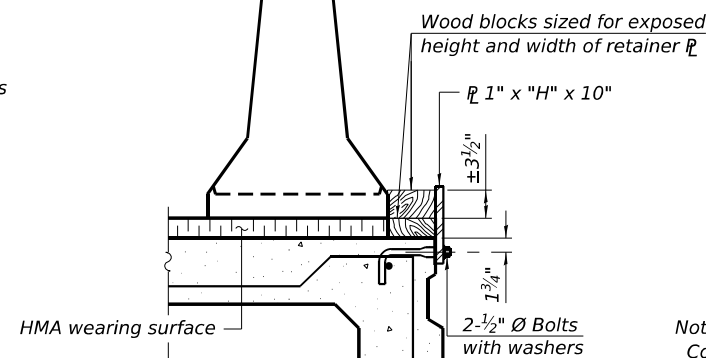
SECTIONS THRU SLAB OR DECK BEAM



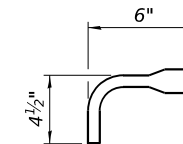
DETAIL I



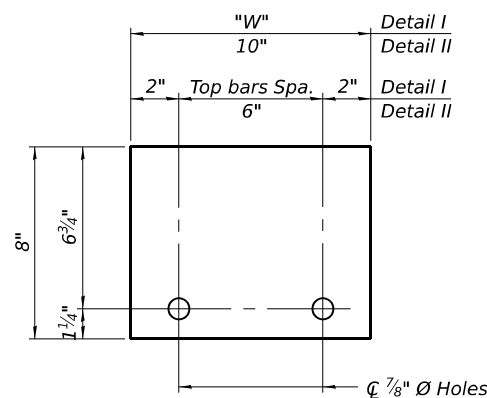
DETAIL II



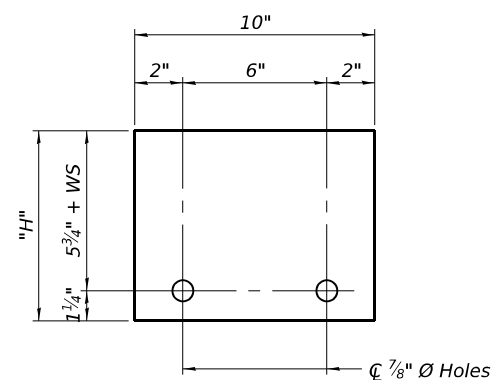
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 5-15-2023

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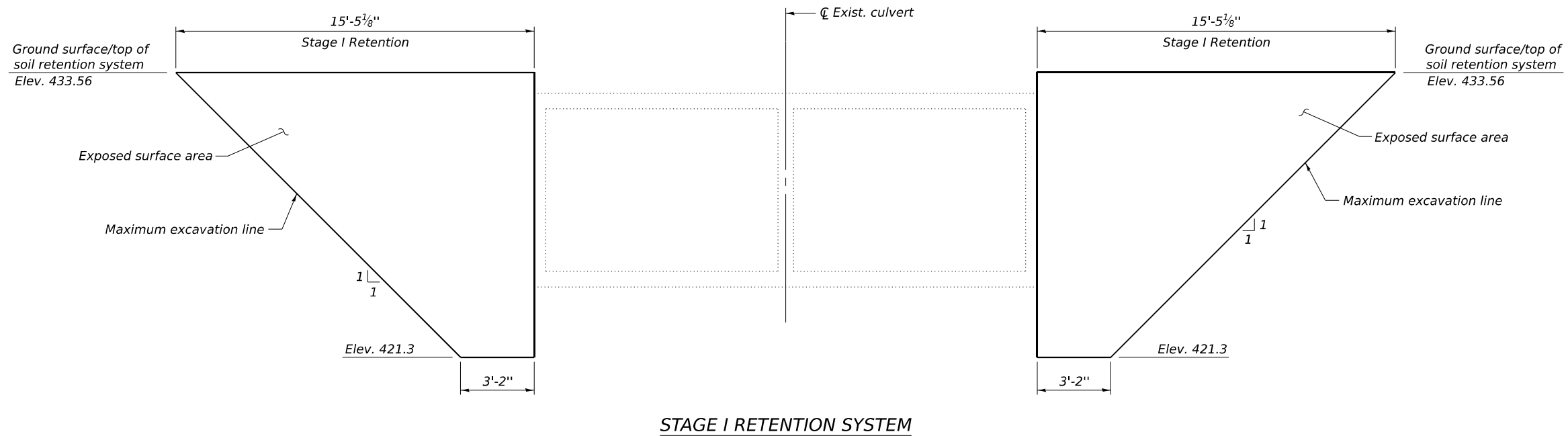
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

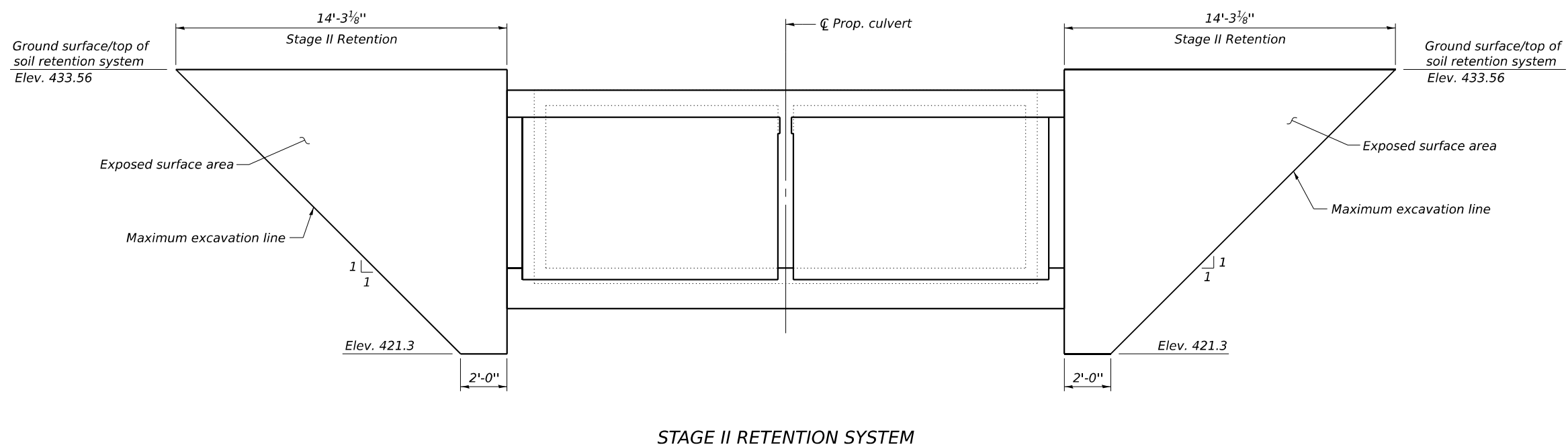
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 091-2030

SHEET 4 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	68
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



STAGE I RETENTION SYSTEM



STAGE II RETENTION SYSTEM

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.
 Elevations and dimensions are approximate based on plan data. Exact elevations and dimensions required shall be field verified by the Contractor.

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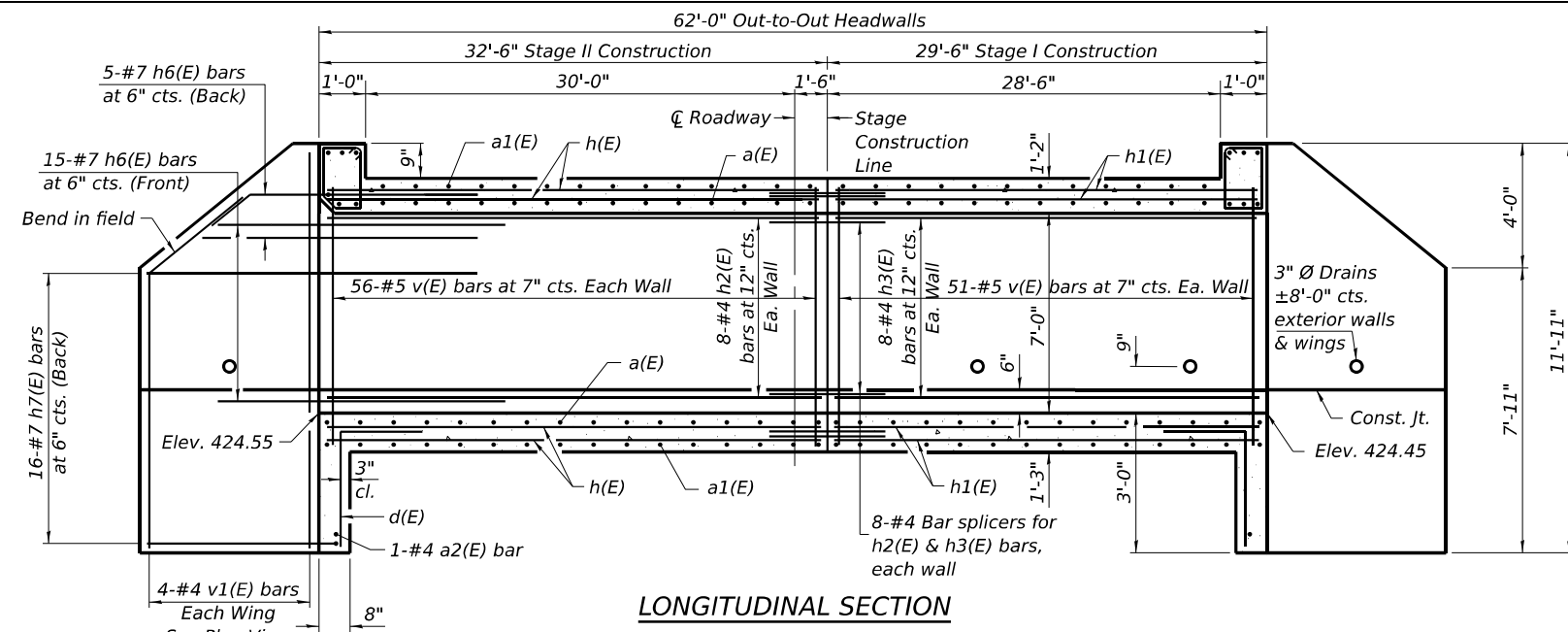
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

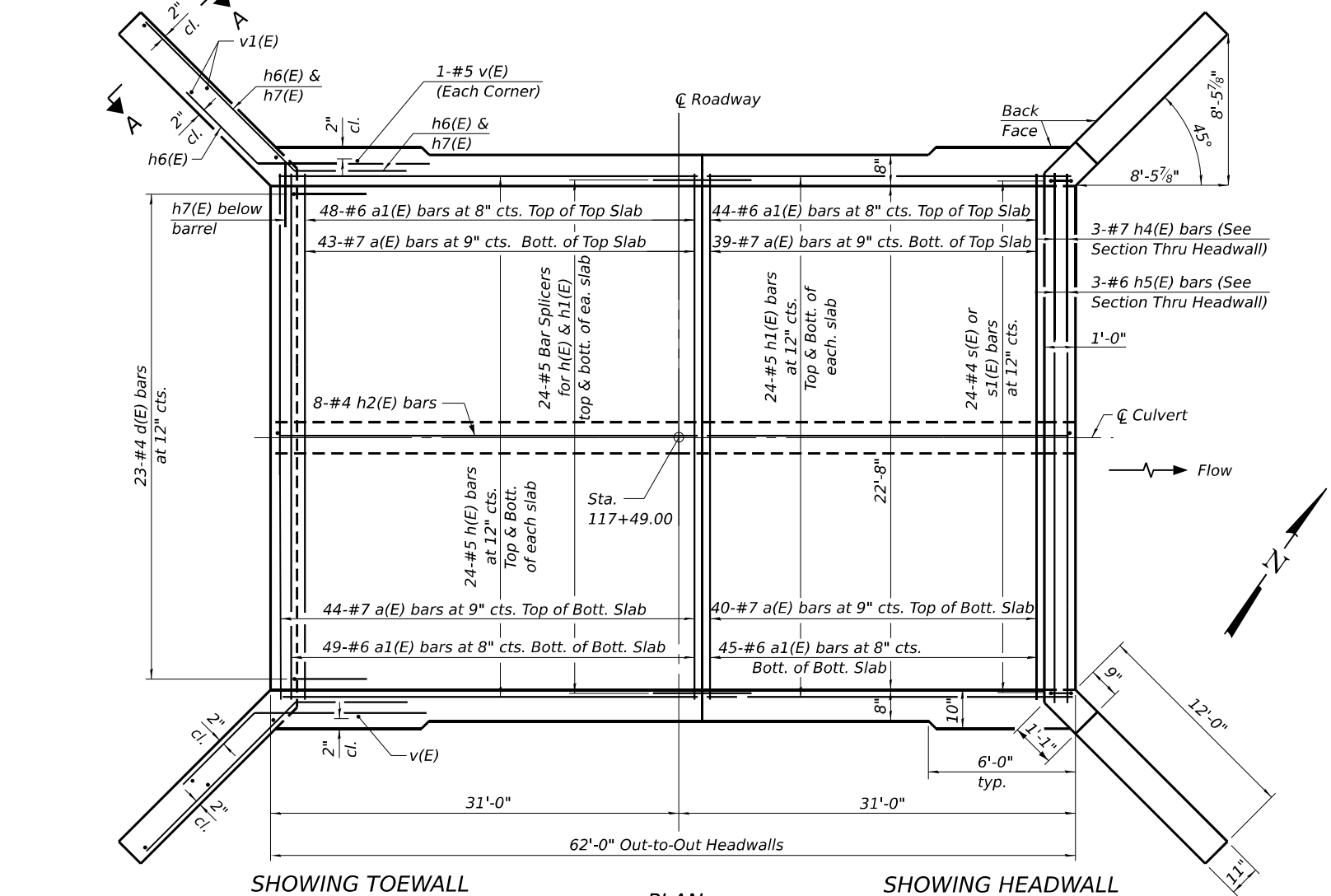
**TEMPORARY SOIL RETENTION SYSTEM
 STRUCTURE NO. 091-2030**

SHEET 5 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	69
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



LONGITUDINAL SECTION



SHOWING TOEWALL

PLAN

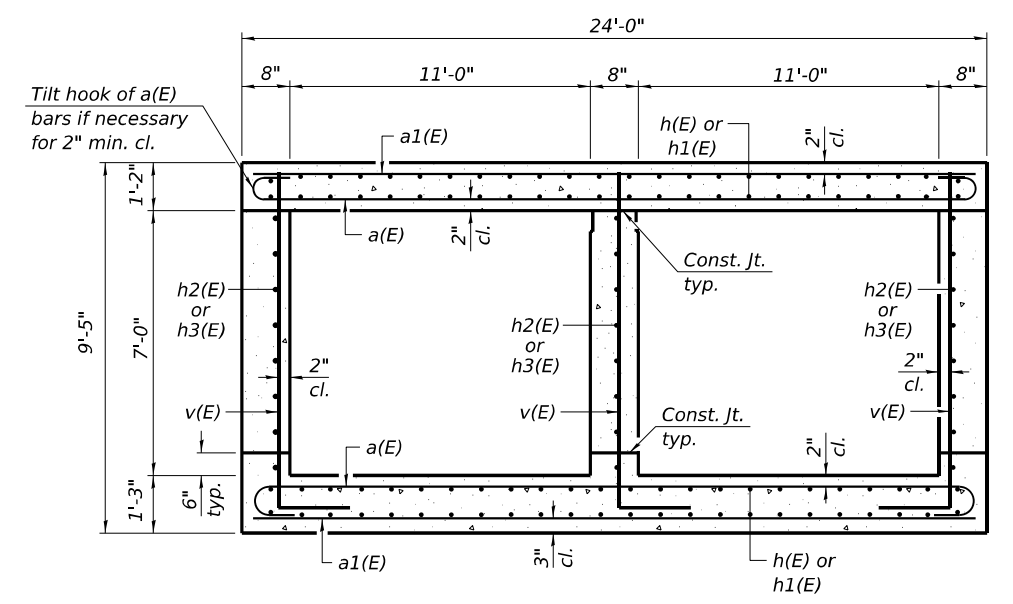
SHOWING HEADWALL

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.
 Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
 At the Contractor's option, a longer v1(E) bar may be ordered to replace the v(E) bar.
 No reduction in quantities shall be made for this substitution.

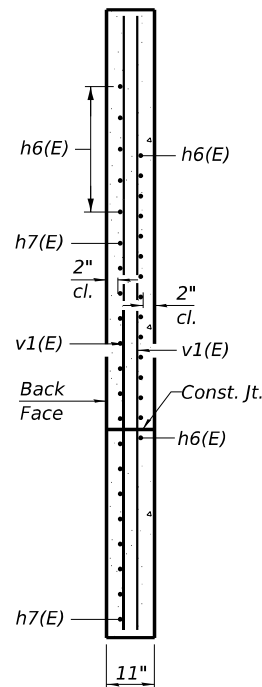


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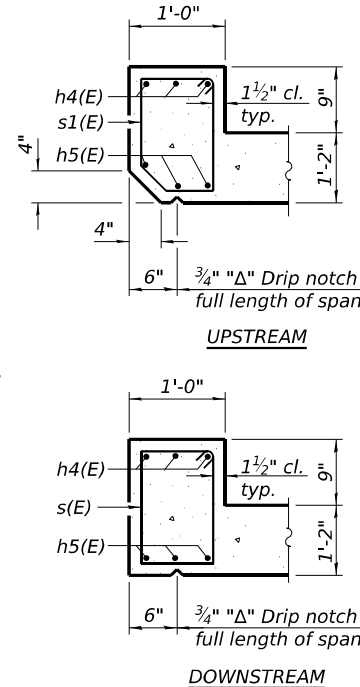
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION



SECTION THRU BARREL



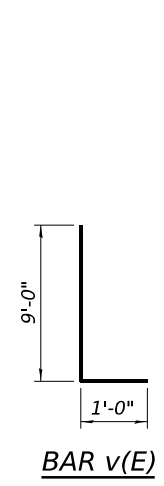
SECTION A-A



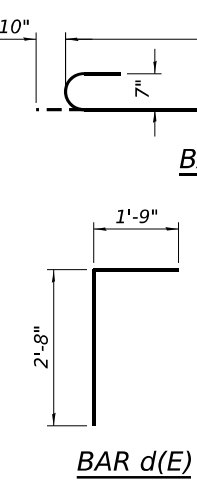
SECTION THRU HEADWALL

BILL OF MATERIAL

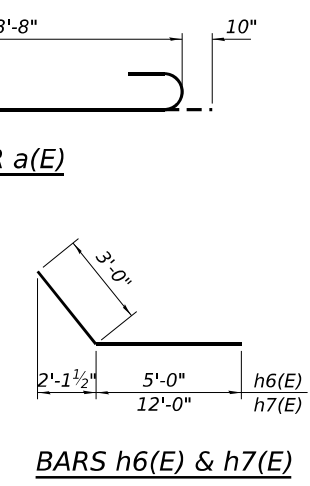
Bar	No.	Size	Length	Shape	
a(E)	166	#7	25'-4"		
a1(E)	186	#6	23'-8"		
a2(E)	2	#4	23'-8"		
d(E)	46	#4	4'-5"		
h(E)	96	#5	32'-2"		
h1(E)	96	#5	29'-2"		
h2(E)	24	#4	32'-2"		
h3(E)	24	#4	29'-2"		
h4(E)	6	#7	23'-8"		
h5(E)	6	#6	23'-8"		
h6(E)	80	#7	8'-0"		
h7(E)	64	#7	15'-0"		
s(E)	24	#4	5'-7"		
s1(E)	24	#4	5'-5"		
v(E)	325	#5	10'-0"		
v1(E)	16	#4	11'-5"		
Concrete Box Culverts				Cu. Yd.	186.7
Reinforcement Bars, Epoxy Coated				Pound	29,960



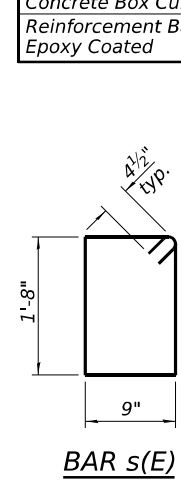
BAR v(E)



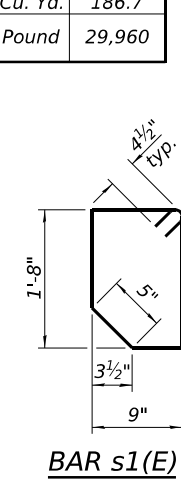
BAR d(E)



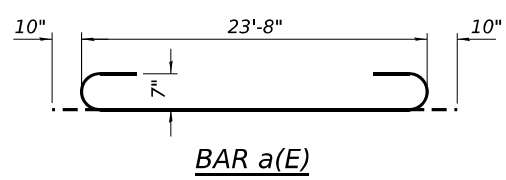
BARS h6(E) & h7(E)



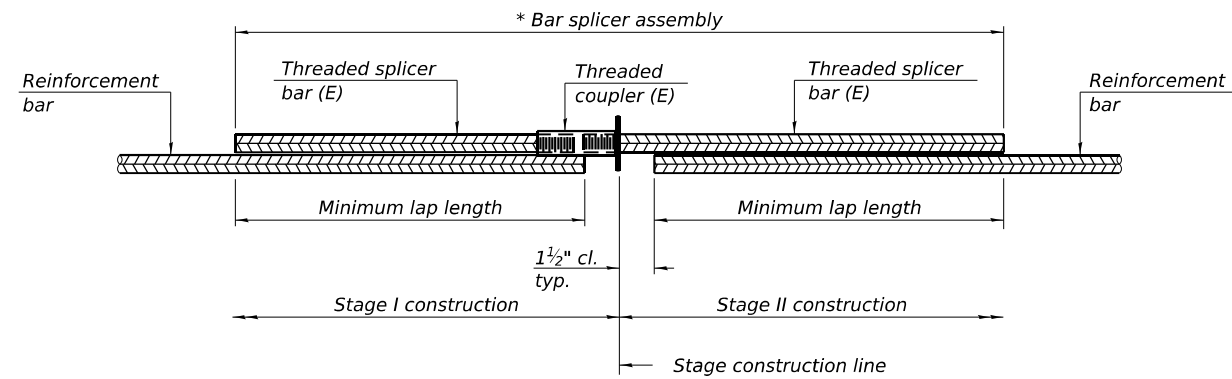
BAR s(E)



BAR s1(E)



BAR a(E)



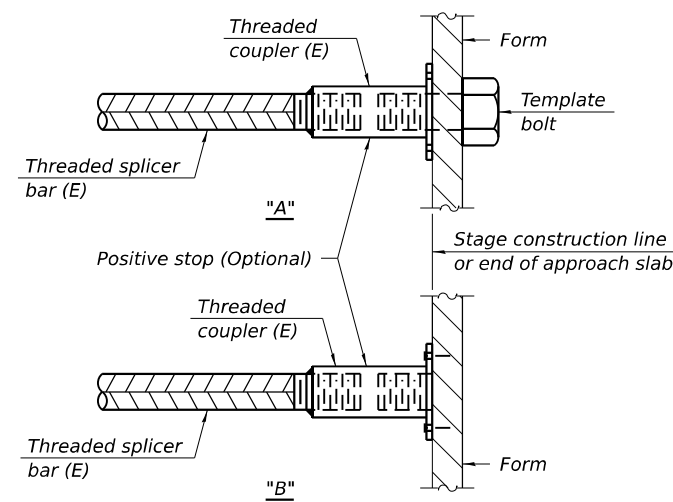
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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	Minimum lap length
Top slab	#5	48	2'-9"
Bottom slab	#5	48	2'-9"
N. Exterior wall	#4	8	2'-3"
Interior wall	#4	8	2'-3"
S. Exterior wall	#4	8	2'-3"

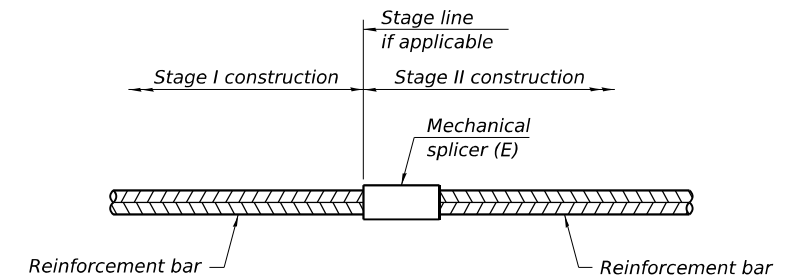


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

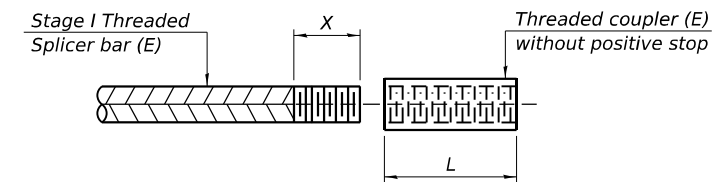
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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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BSD-1

4-4-2025



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	CHECKED - MJT	REVISED -
PLOT SCALE =	DRAWN - MMY	REVISED -
PLOT DATE =	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 091-2030

SHEET 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	71
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 6/16/21

ROUTE IL 127/146 DESCRIPTION Double 10x7 Box Culvert LOGGED BY L. Estel
SECTION 104-A (ex.) LOCATION 0.6 mi W. of Jonesboro (West side) SEC. 24, TWP. 12S, RNG. 2W, PM
COUNTY Union DRILLING METHOD Follow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE to SPT 140 lbs (H.E.=86.5%)

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	DEPTH	BLOW S	UCS Qu	MOIST T	Soils		DEPTH	BLOW S	UCS Qu	MOIST T
								(ft)	(tsf)				
091-2012 117+51	1-S 117+89	13.0ft Rt	433.6										
Soft Brown, Slightly Moist SILTY CLAY LOAM													
				4									
				7	0.4	13							
				8	S								
				429.10									
Soft Brown and Grey, Moist SILTY CLAY LOAM													
				-5	1								
				3	0.3	25							
				2	B								
				426.00									
Stiff Grey, Moist SILTY CLAY													
				1									
				3	1.2	24							
				4	S								
				424.10									
M. Stiff Grey and Brown, Moist SILTY CLAY with GRAVEL													
				-10	1								
				8	0.6	20							
				8	S								
				(Brown)									
				6									
				2	0.8	21							
				2	B								
				419.10									
V. Soft Brown, Very Moist CLAY with GRAVEL													
				-15	1								
				1	0.25	27							
				1	B								
				1									
				WOH	0.1	24							
				1	B								
				413.60									

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)



Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Page 1 of 1

Date 6/16/21

ROUTE IL 127/146 DESCRIPTION Double 10x7 Box Culvert LOGGED BY L. Estel
SECTION 104-A (ex.) LOCATION 0.6 mi W. of Jonesboro (East side) SEC. 24, TWP. 12S, RNG. 2W, PM
COUNTY Union DRILLING METHOD Follow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE to SPT 140 lbs (H.E.=86.5%)

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	DEPTH	BLOW S	UCS Qu	MOIST T	Soils		DEPTH	BLOW S	UCS Qu	MOIST T
								(ft)	(tsf)				
091-2012 117+51	2-S 117+34	13.0ft Lt	433.1										
Soft Brownish Grey, Moist SILTY CLAY LOAM													
				1									
				2	0.3	23							
				4	B								
				426.10									
V. Soft Grey, V. Moist SILTY CLAY LOAM													
				-5	1								
				1	0.5	26							
				2	B								
				423.60									
M. Stiff Brown, Moist CLAY with PEBBLES													
				-10	4								
				12	1.5	13							
				8	P								
				421.10									
Hard Grey, Dry CLAY SHALE to Weathered LIMESTONE													
				100/2									
				-15									
Bottom of hole @ 12.2 ft													
No free water encountered													
Ground surface elevation referenced to BM @ SN 091-2012; Cut Square on SW Wingwall, EL. 433.41													
To convert "N" values to "N60", multiply by 1.44, Hammer efficiency = 86.5%													

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)

MODEL: Sheet
FILE NAME: I:\2023\3044 IDOT D9 - PTB 207-048 - PE HI BB 091-2030\CADData\CADsheets\0912030-78A13-008-Borings.dgn



USER NAME =
DESIGNED - PDA
CHECKED - MJT
PLOT SCALE =
DRAWN - MMY
PLOT DATE =
CHECKED - MJT
REVISED -

DESIGNED - PDA
CHECKED - MJT
DRAWN - MMY
CHECKED - MJT
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 091-2030

SHEET 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885	104A(B-1)	UNION	114	72
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

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

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

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DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/08/26
PLOT DATE	= 2/6/2026

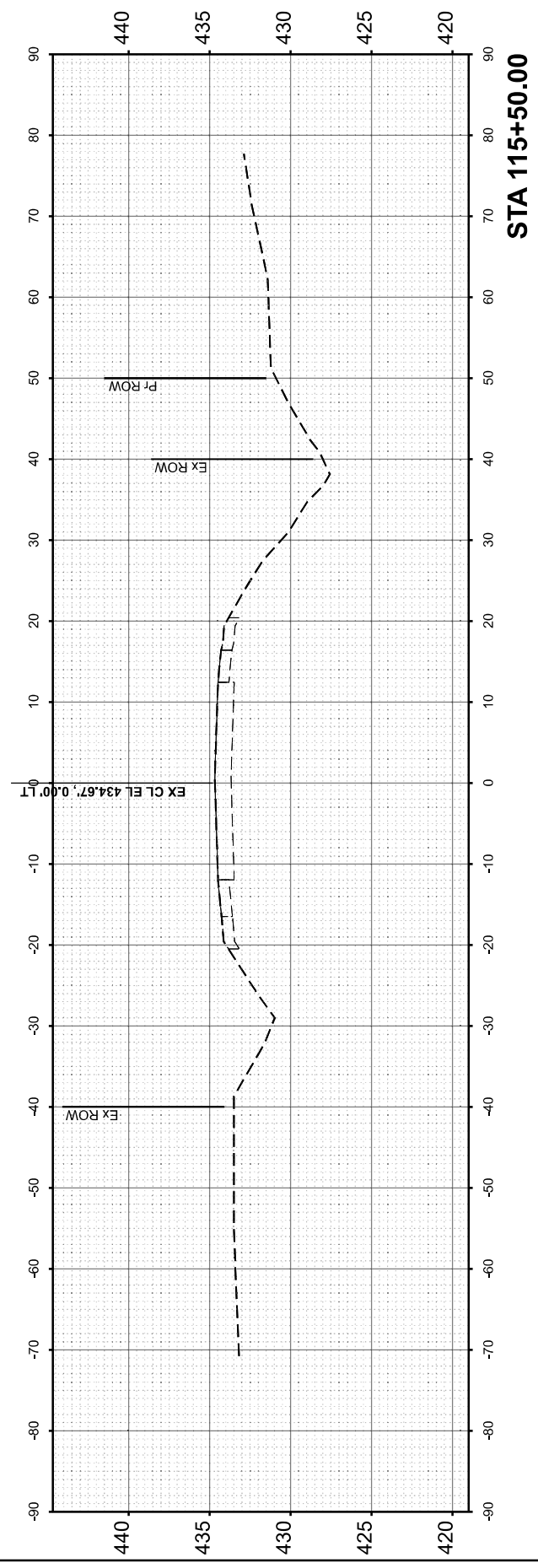
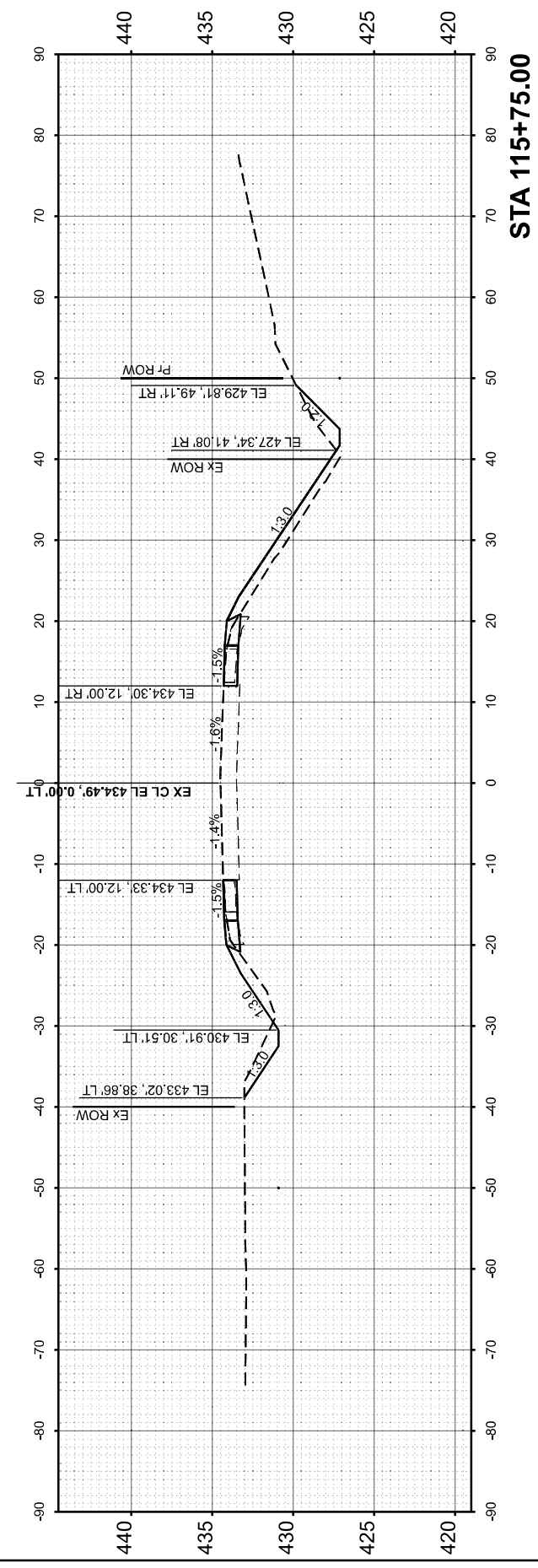
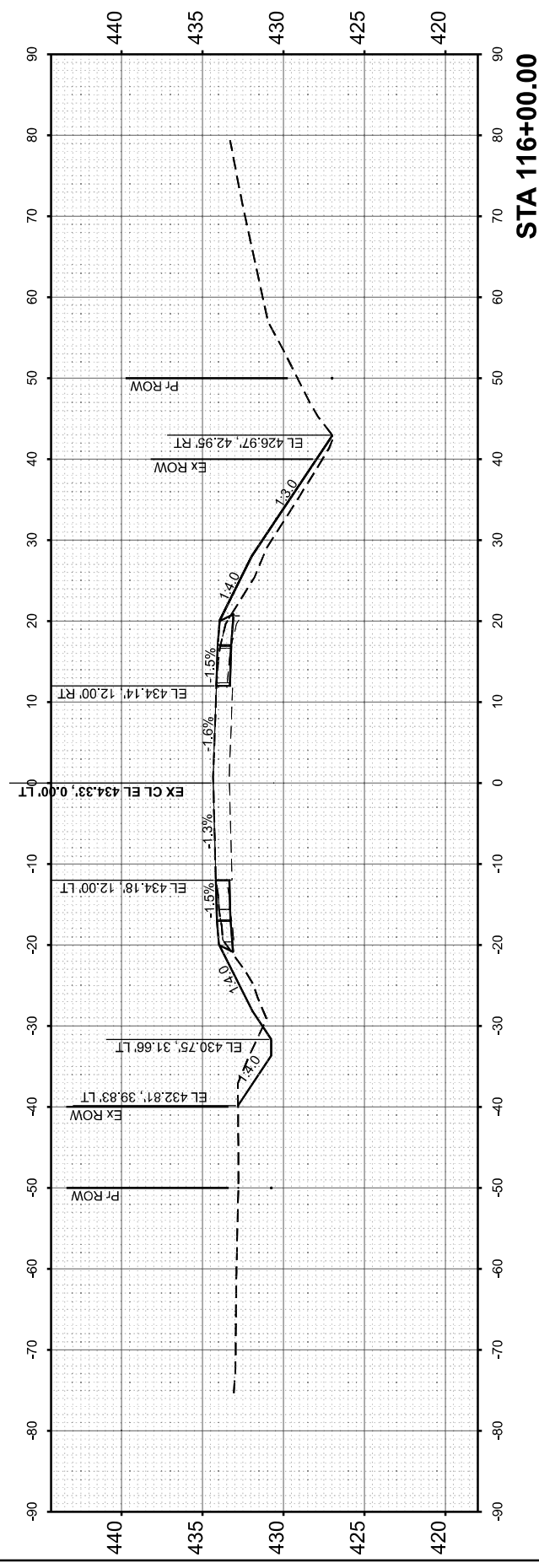
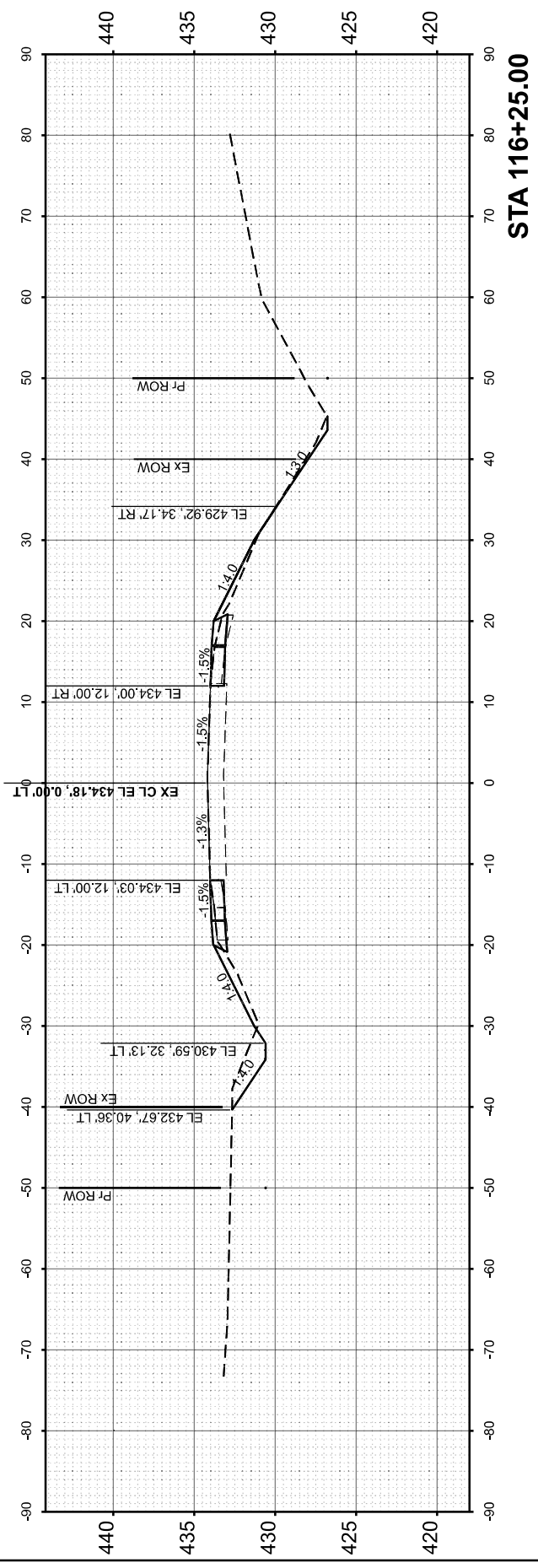
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SN 091-2030 (P)**

SCALE: 1"=10' SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	73
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				
*** (30G,104A)(B-1);(13,14A)(CR-1)				



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

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

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Professional Design Firm No. 184-006518

USER NAME	= msutheard
DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/08/26
PLLOT DATE	= 2/25/2026

DESIGNED	- JRS	REVISED	-
DRAWN	- MDS	REVISED	-
CHECKED	- JRS	REVISED	-
DATE	- 1/08/26	REVISED	-

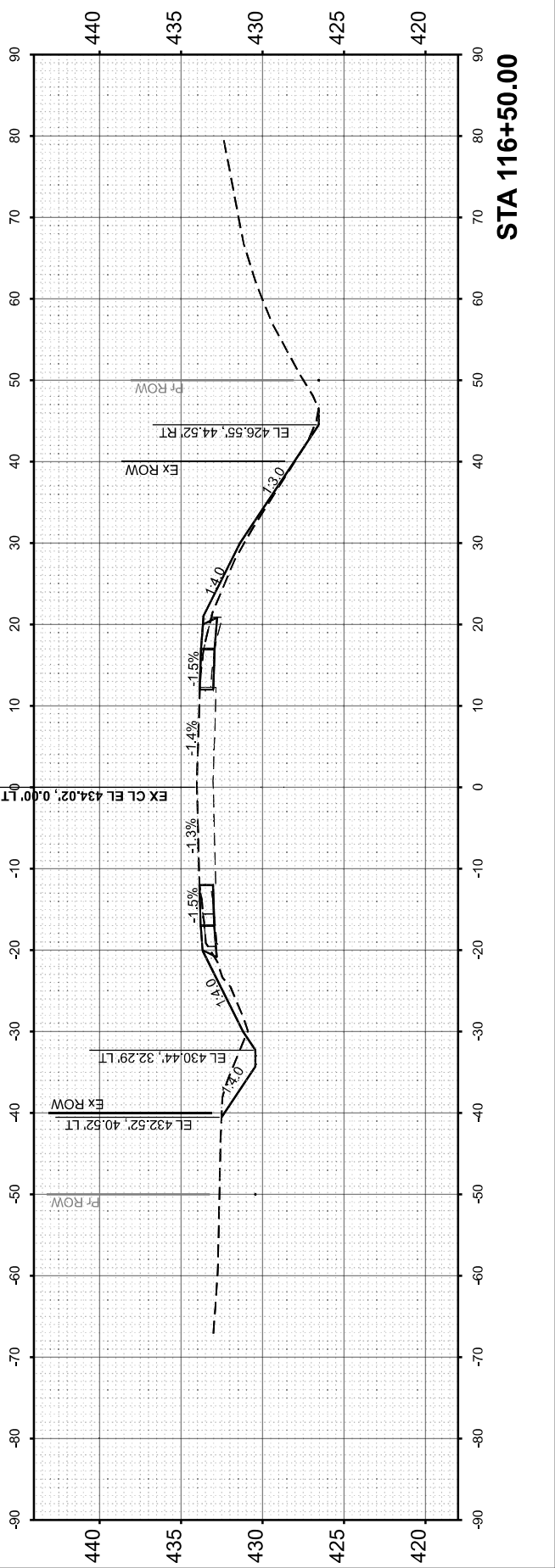
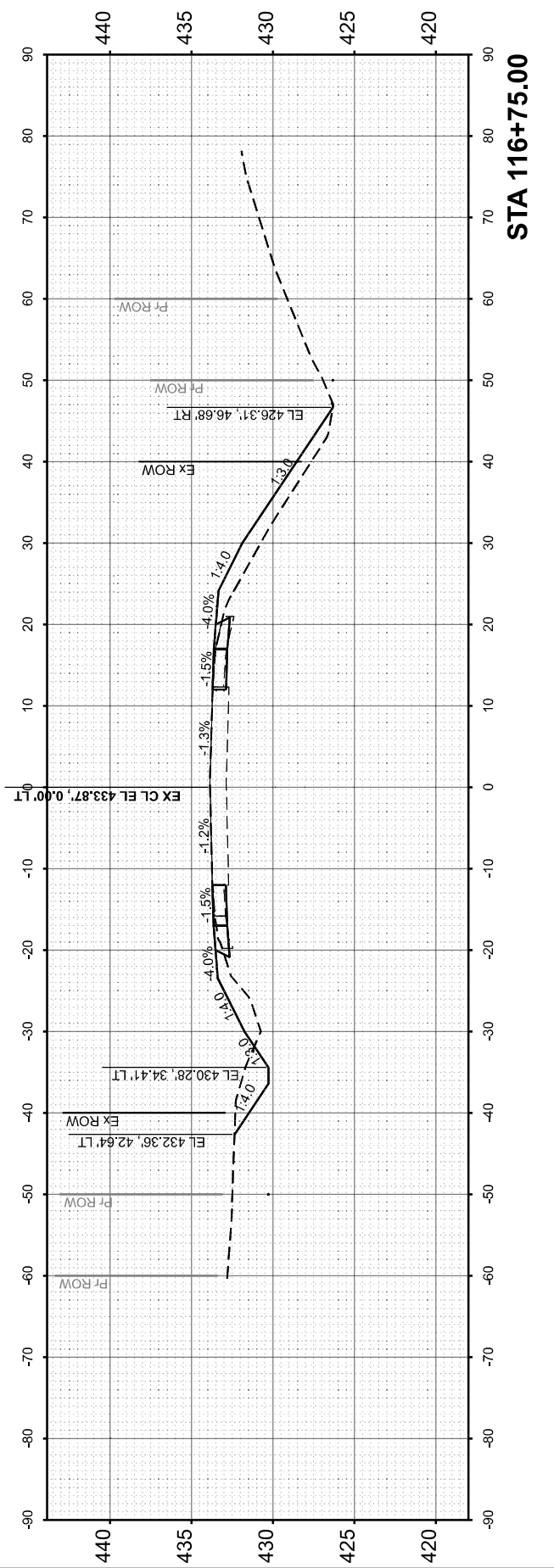
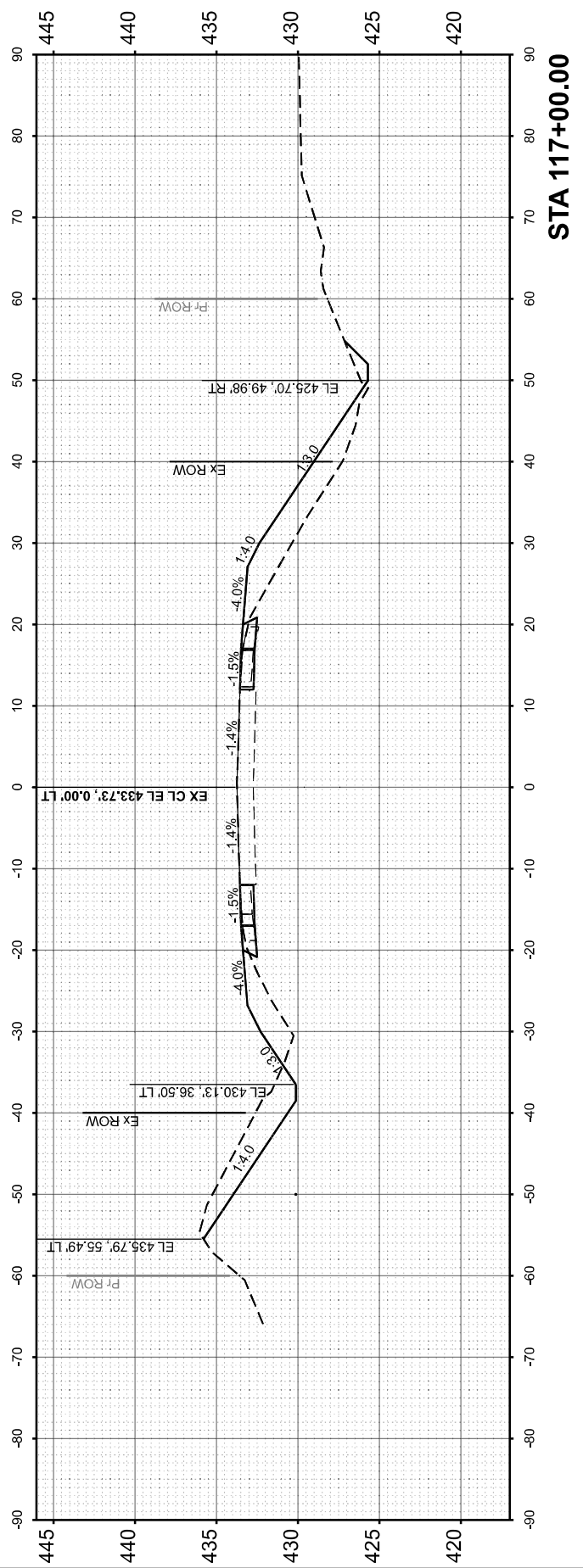
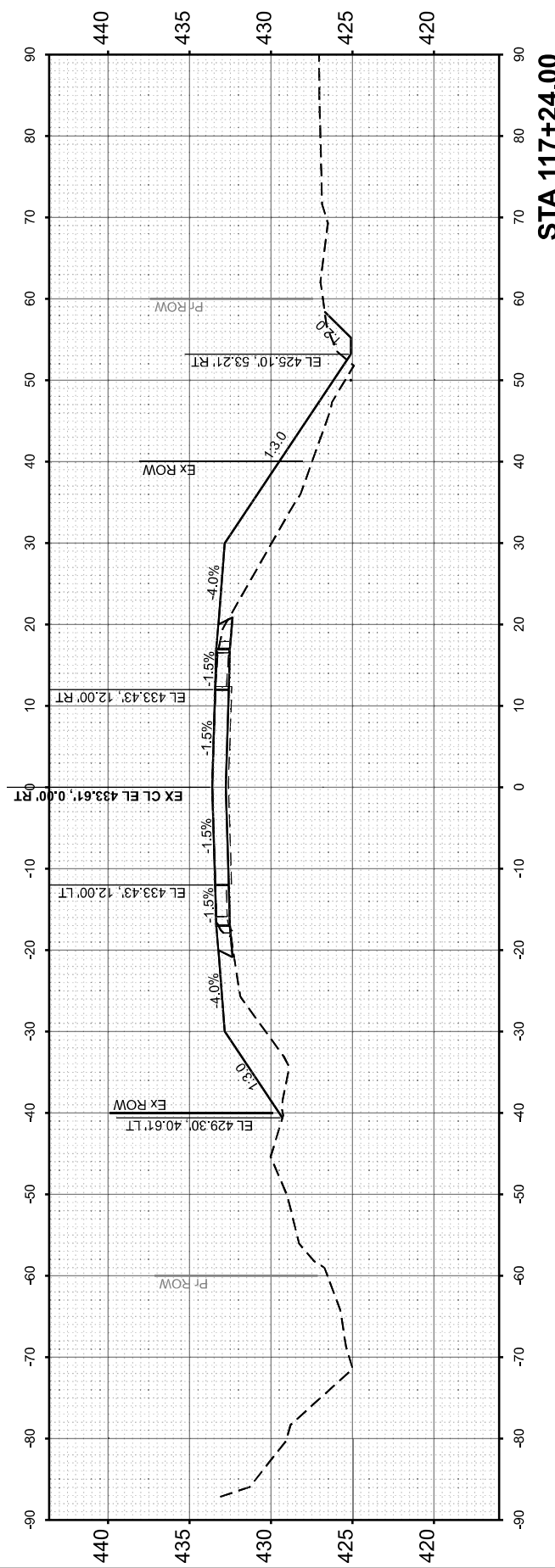
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SN 091-2030 (P)**

SCALE: 1"=10' SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	74
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1):(13,14A)(CR-1)



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

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS CHECKED		
	AREAS CHECKED		

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USER NAME	= Ismaily
DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/08/26
PLOT DATE	= 2/24/2026

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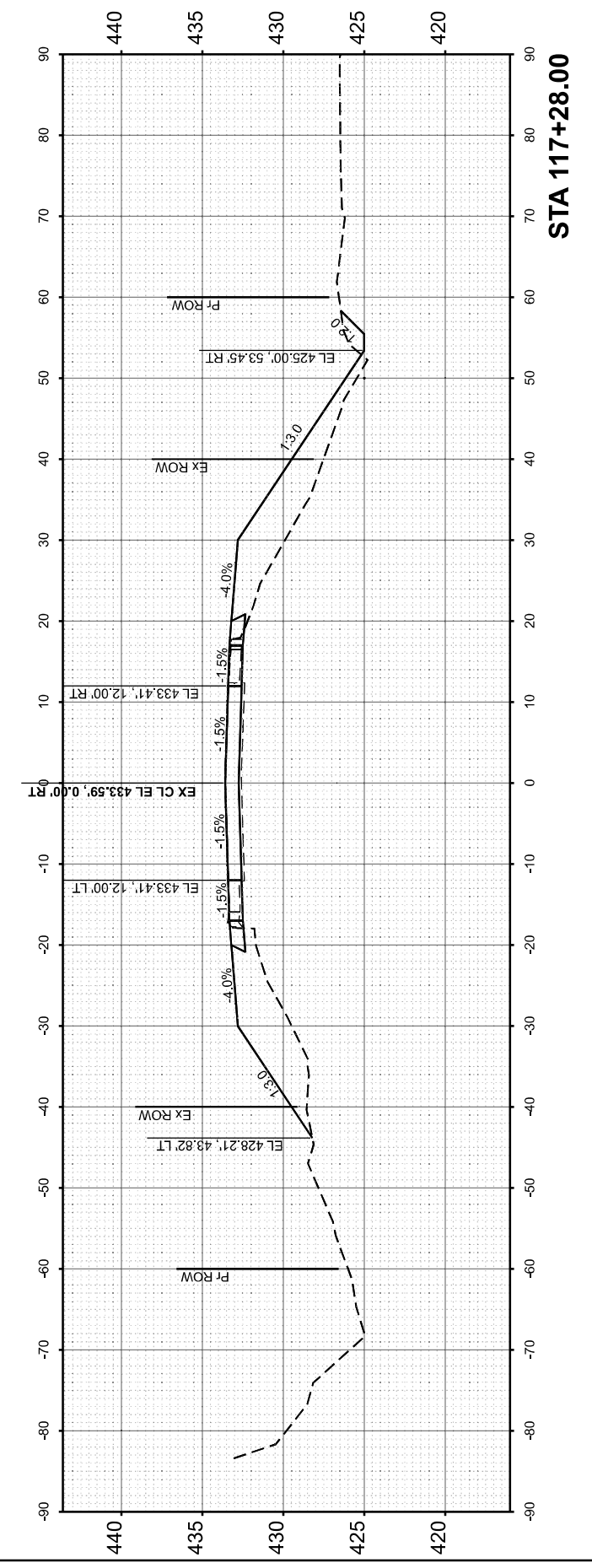
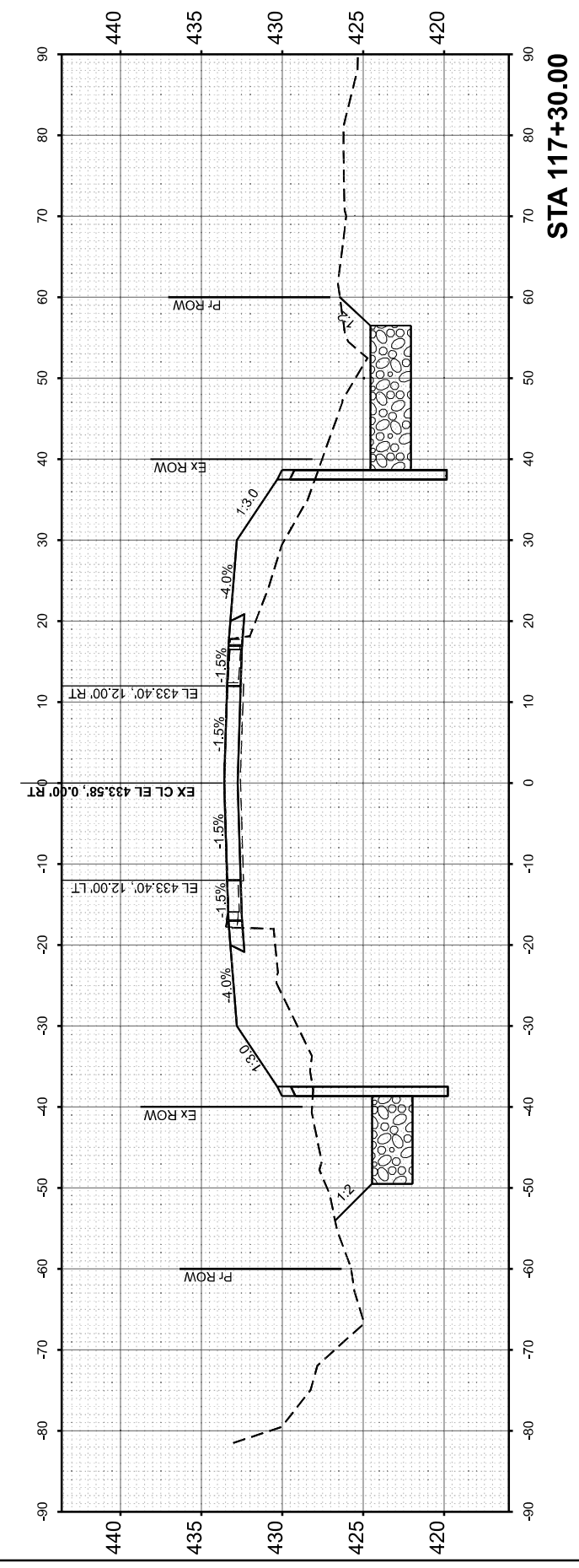
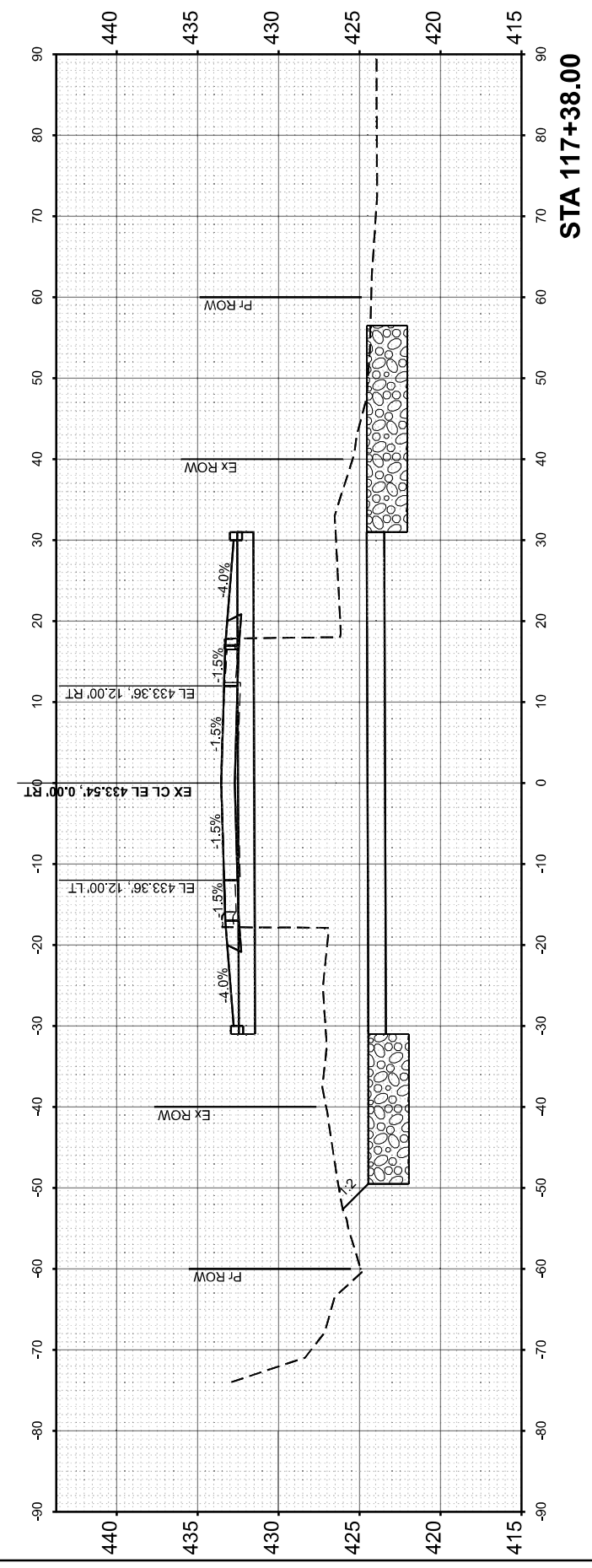
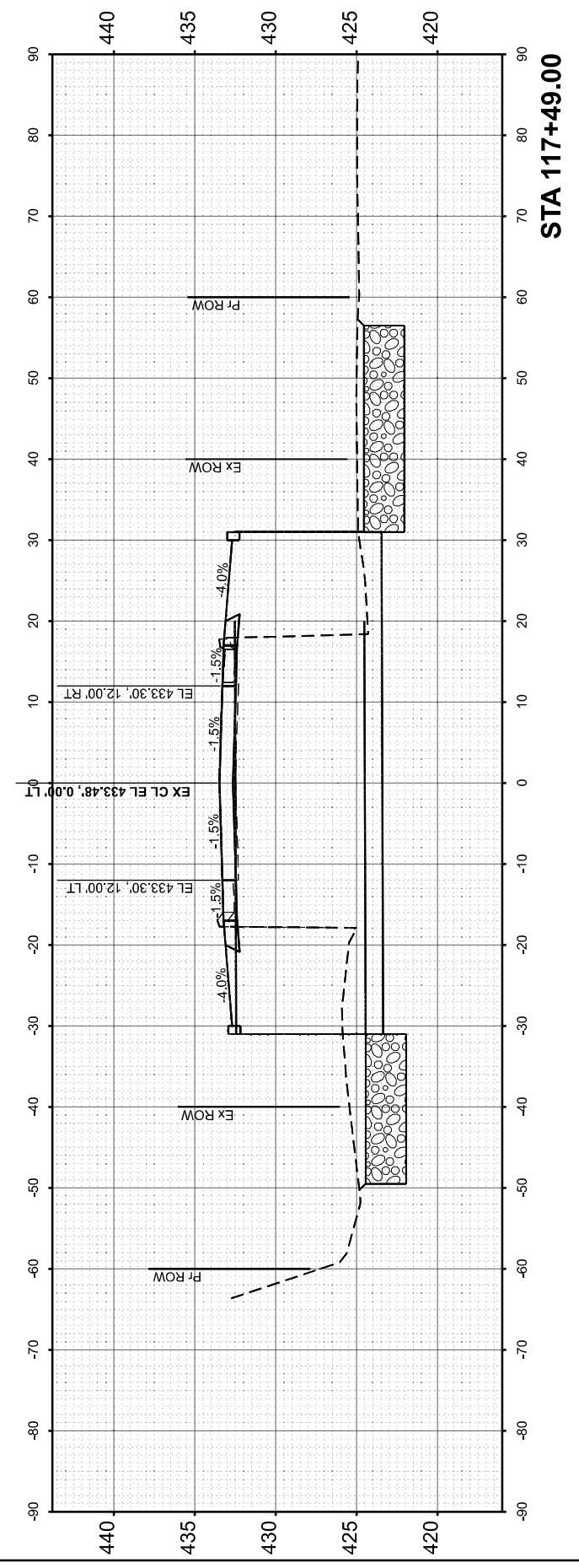
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SN 091-2030 (P)**

SCALE: 1"=10' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	75
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

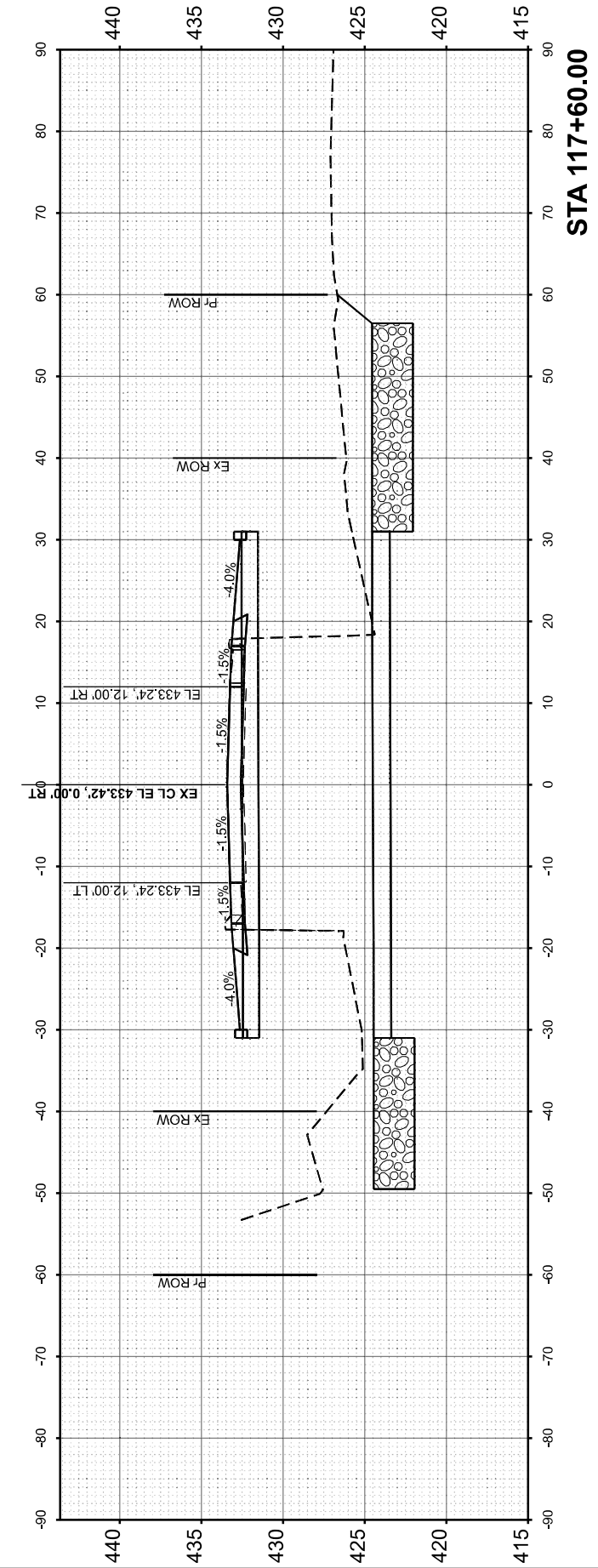
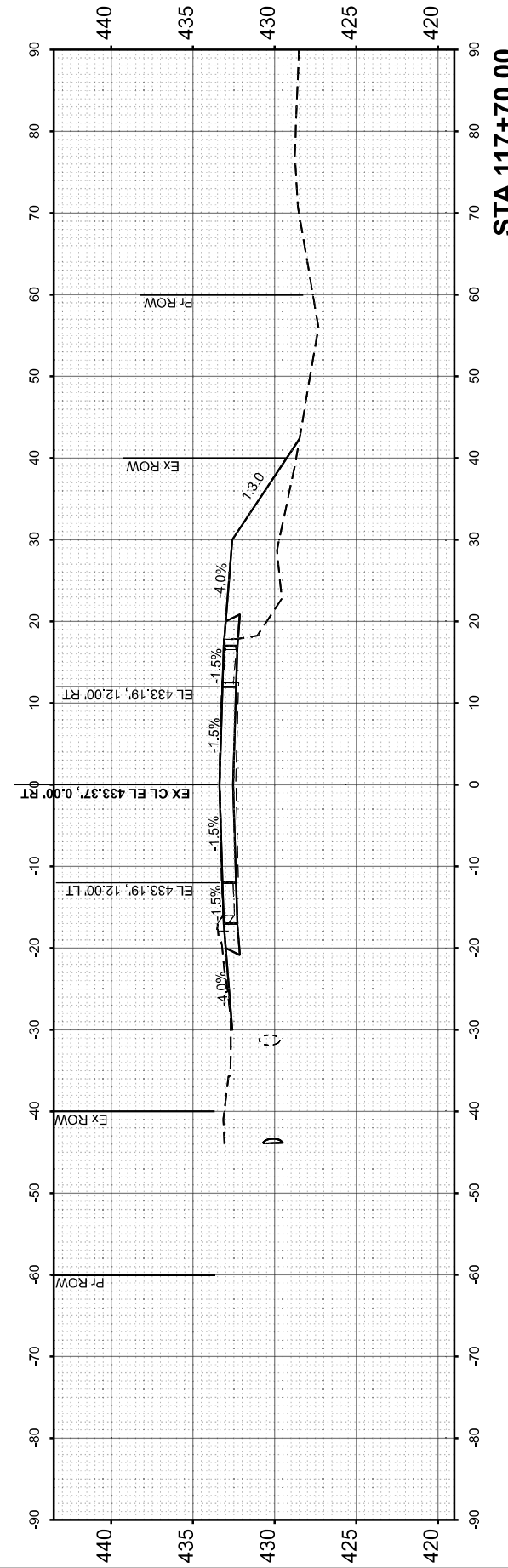
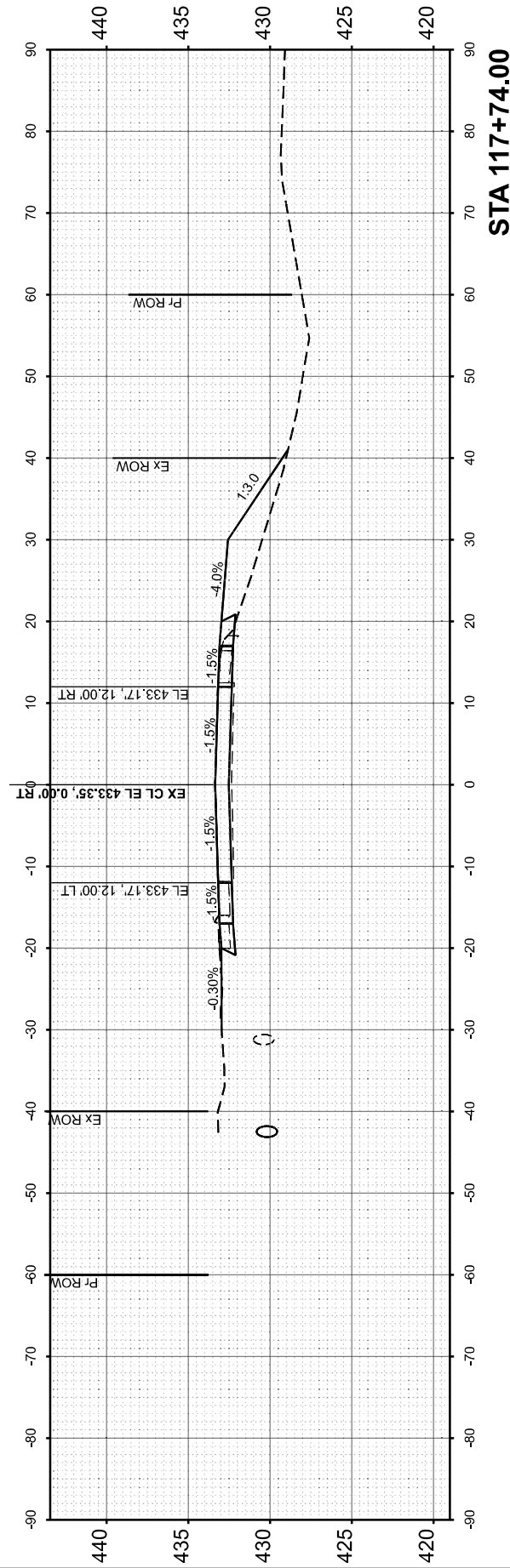
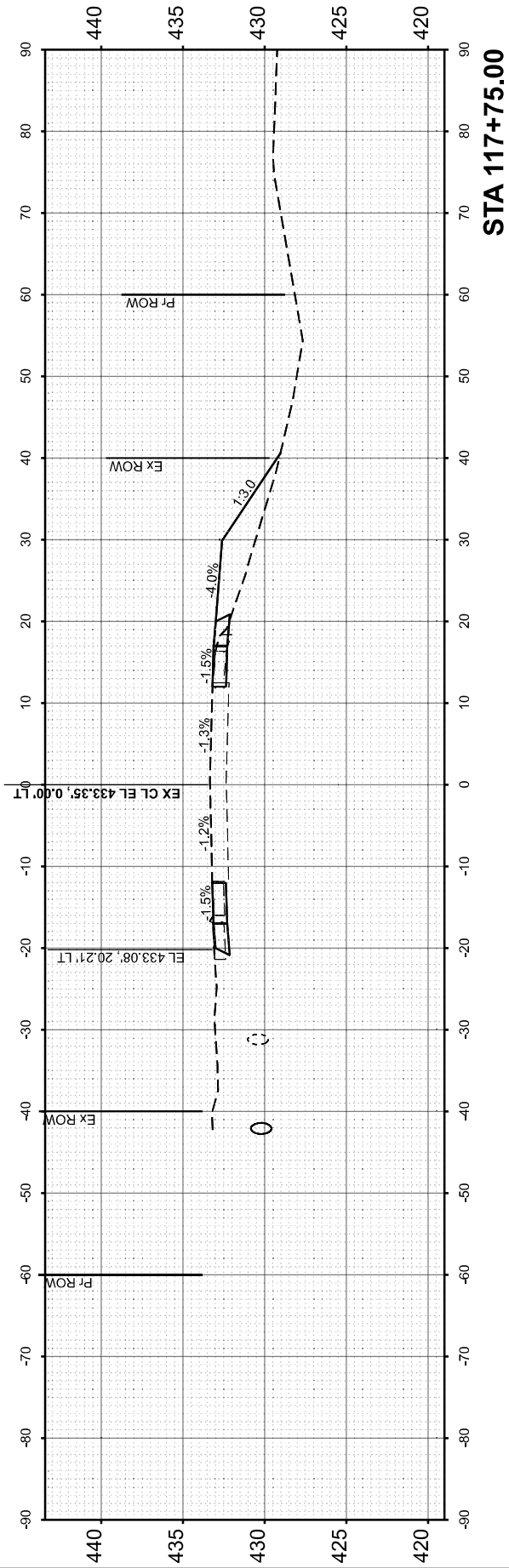
*** (30G,104A)(B-1);(13,14A)(CR-1)



FINISH SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/08/26
PLOT DATE	= 2/24/2026

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SN 091-2030 (P)

SCALE: 1"=10' SHEET 4 OF 6 SHEETS STA. TO STA.

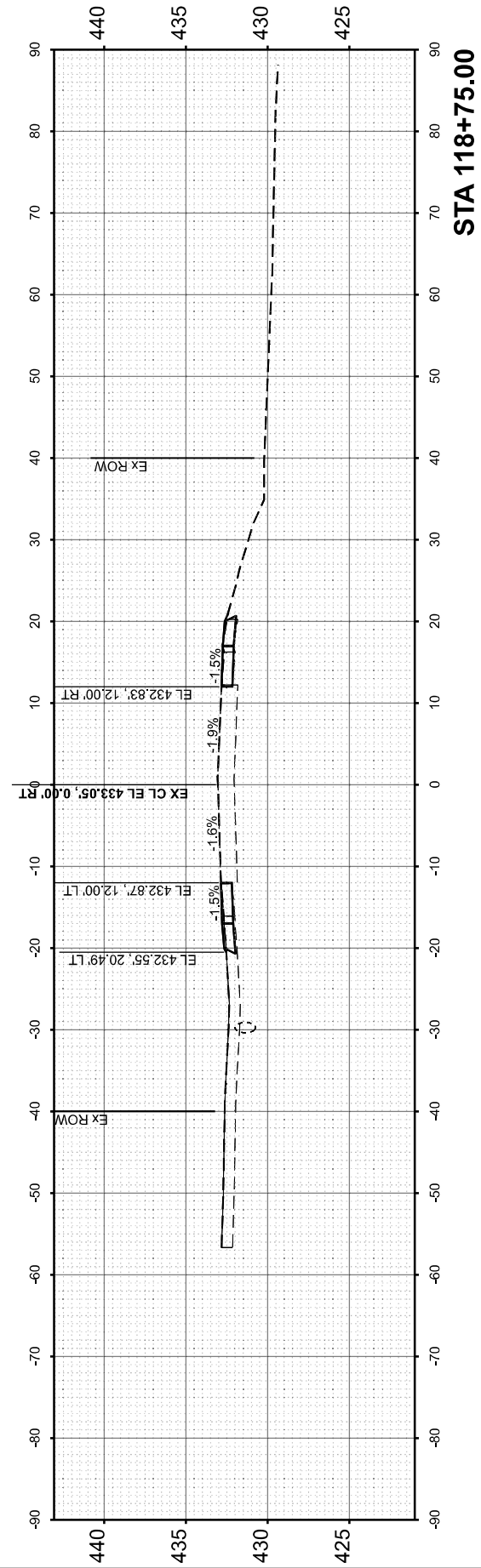
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VARIOUS	***	UNION	114	76
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

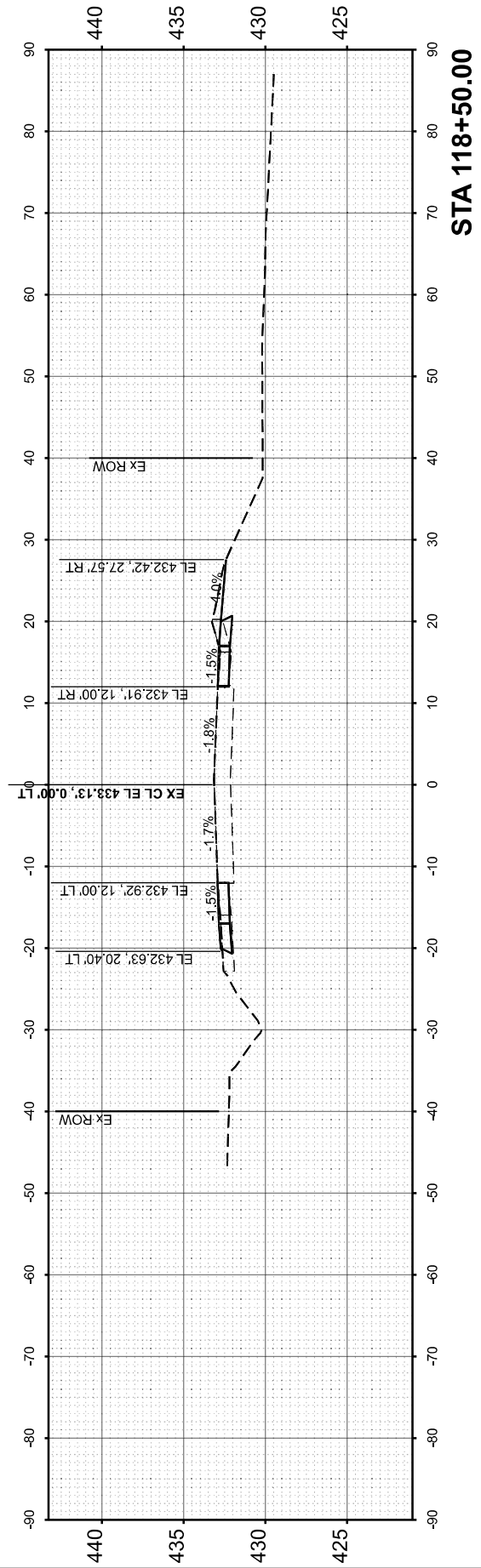
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NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		
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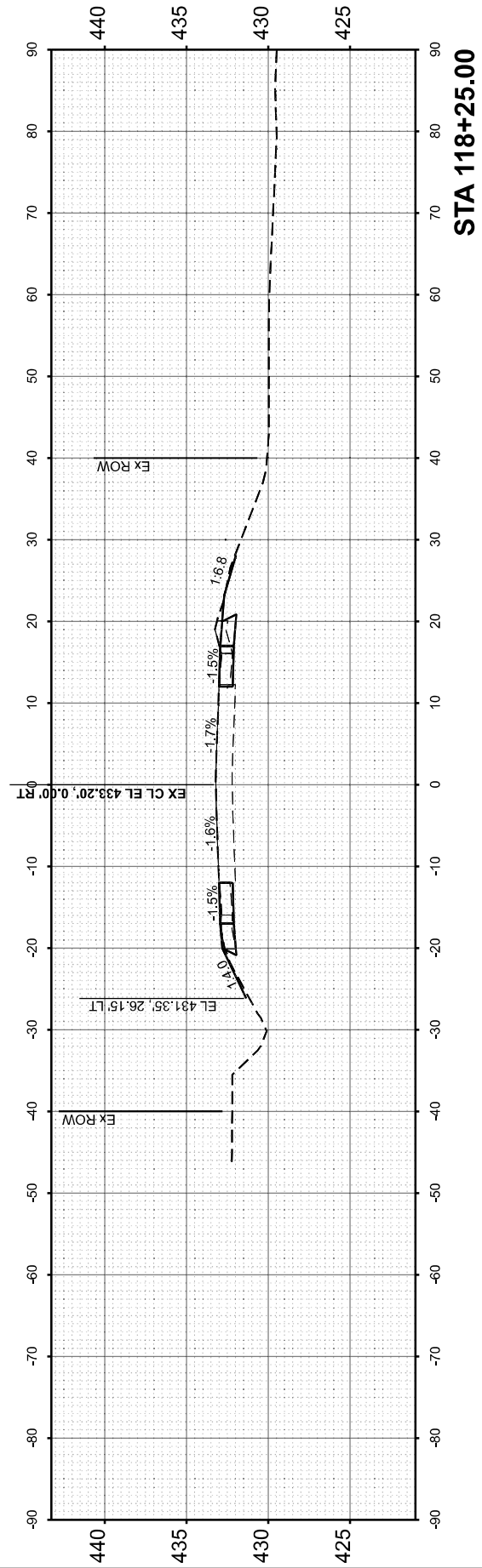
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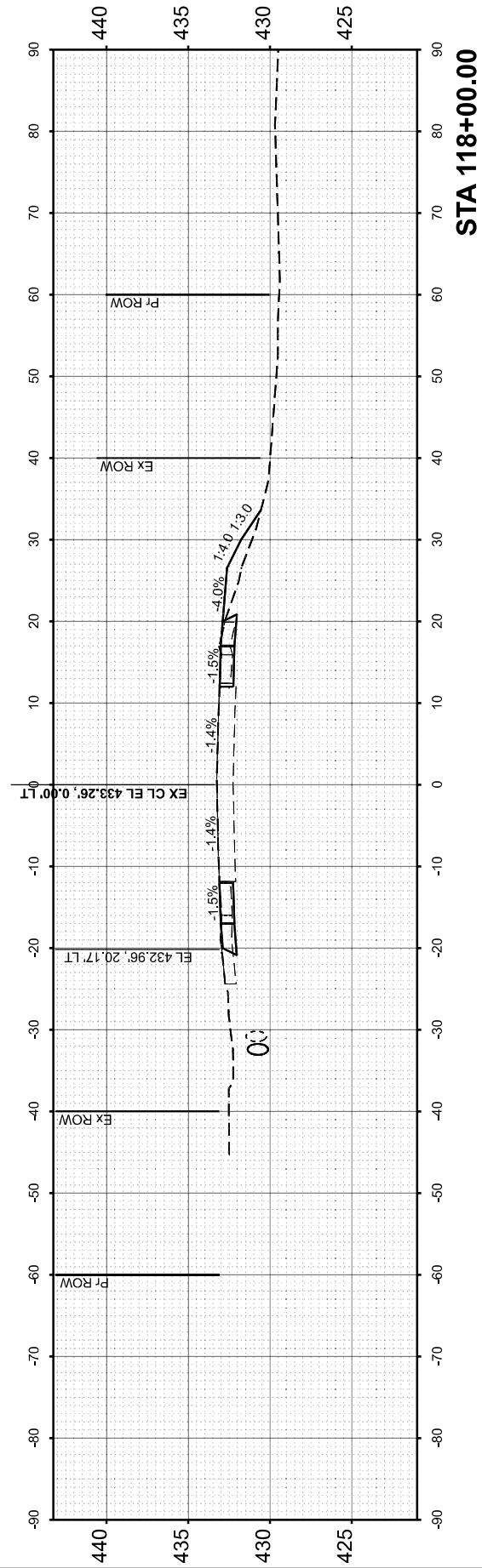
STA 118+75.00



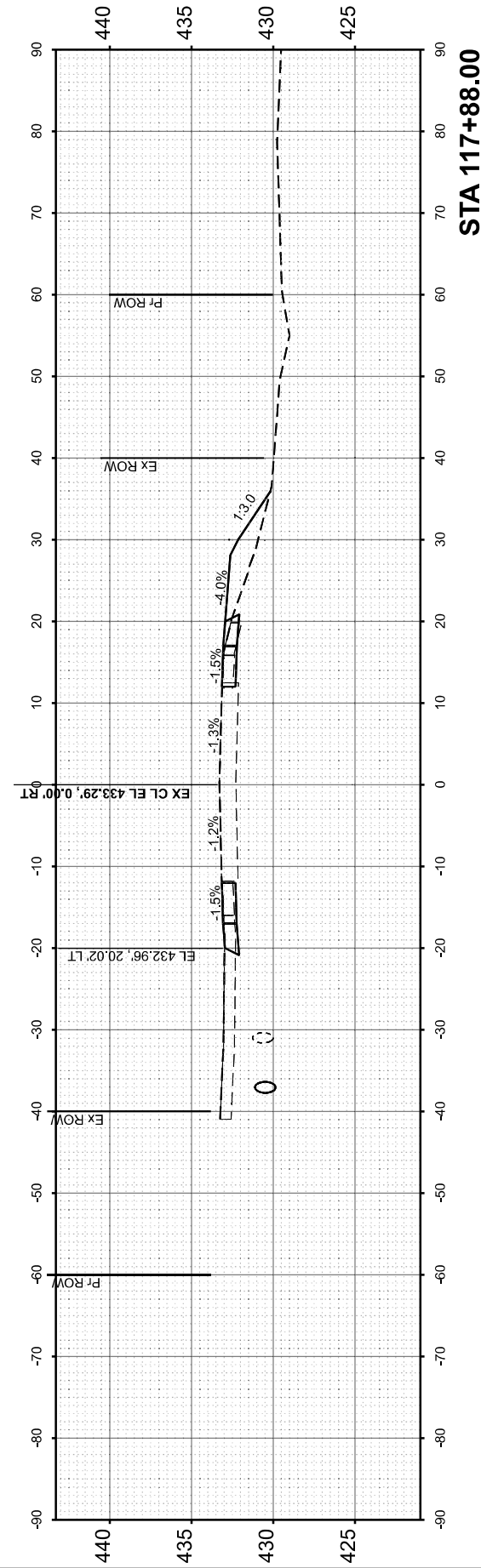
STA 118+50.00



STA 118+25.00



STA 118+00.00



STA 117+88.00



USER NAME	= Ismailay
PLOT DATE	= 2/6/2026

DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/08/26

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SN 091-2030 (P)

SCALE: 1"=10' SHEET 5 OF 6 SHEETS STA. TO STA.

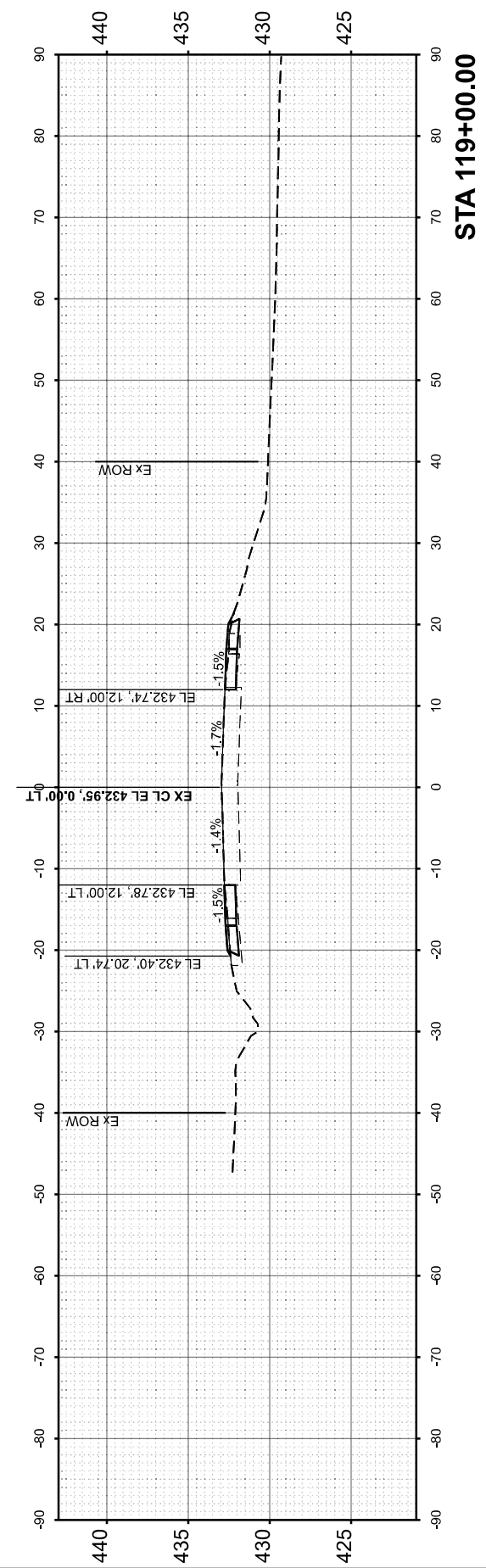
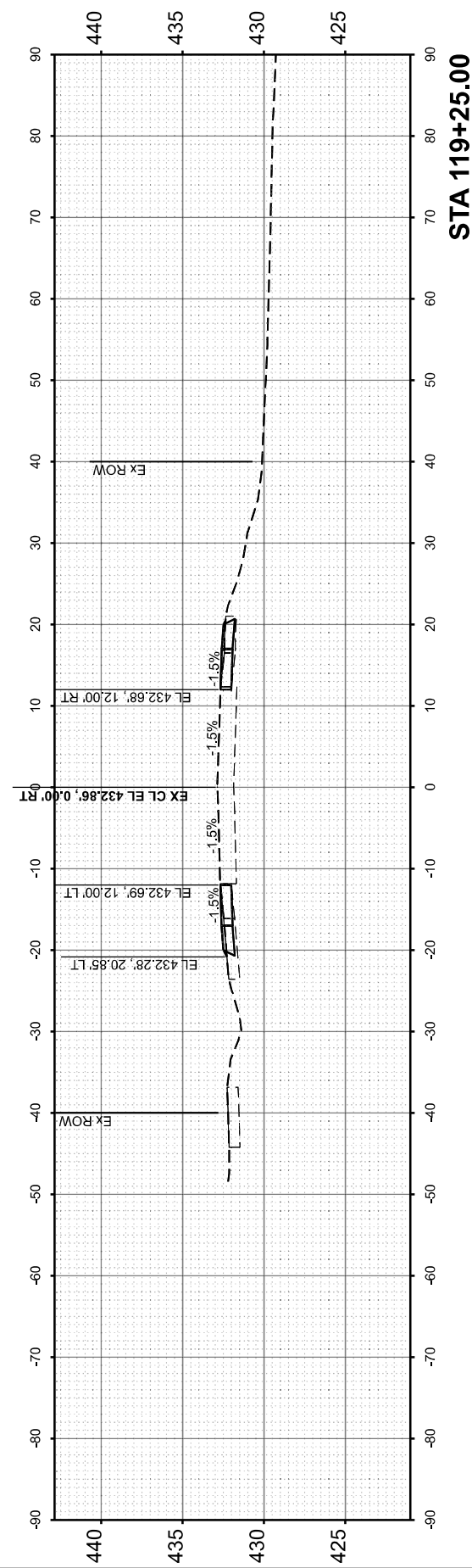
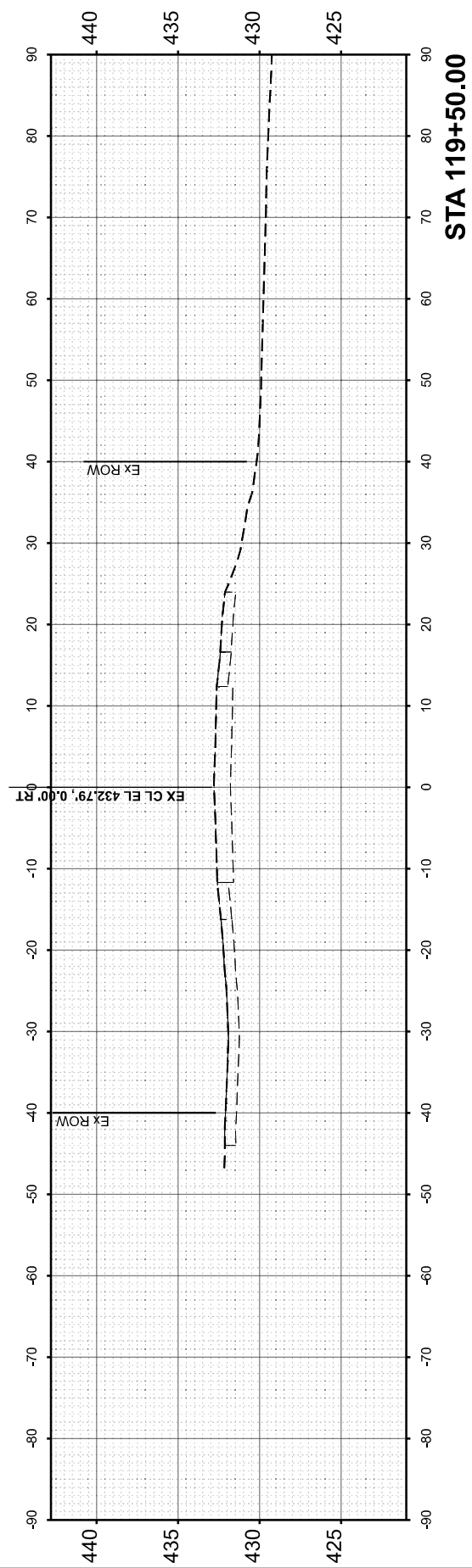
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	77
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

FINISH SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT DATE	= 2/6/2026

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CHECKED	- JRS
DATE	- 1/08/26

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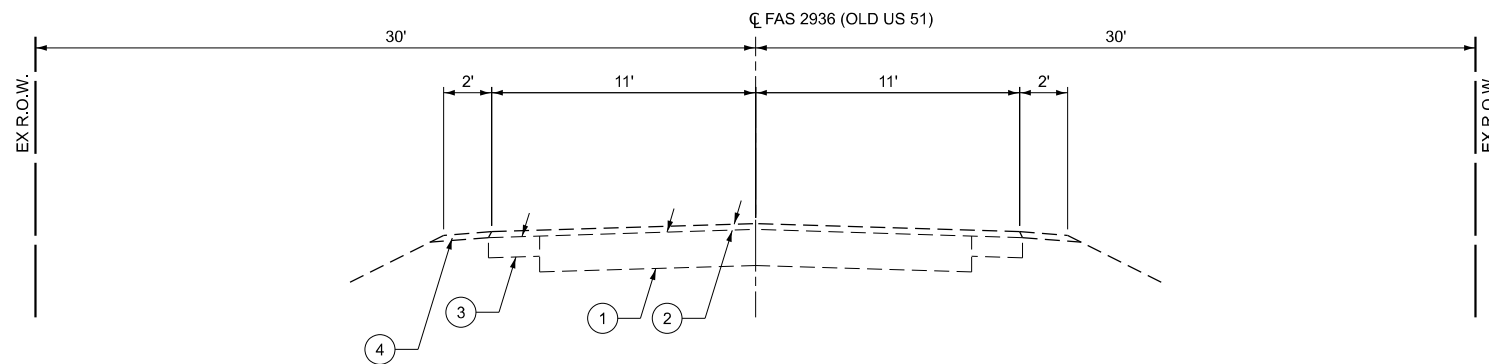
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SN 091-2030 (P)**

SCALE: 1"=10' SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	78
CONTRACT NO. 78A13				

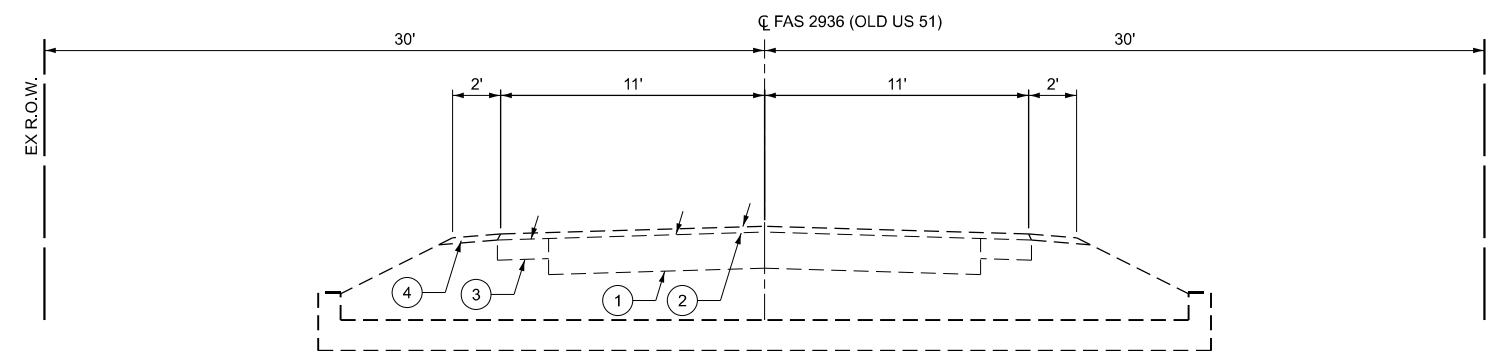
*** (30G,104A)(B-1);(13,14A)(CR-1)



EXISTING TYPICAL SECTION

STA 574+24.5 TO STA 574+39.5
 STA 574+45.5 TO STA 574+60.5

- ① EX PCC PAVEMENT (7½")
- ② EX HMA OVERLAYS (3")
- ③ EX HMA WIDENING (5")
- ④ EX AGG WEDGE SHOULDER



EXISTING TYPICAL SECTION

STA 574+39.5 TO STA 574+45.5

MODEL: Typical Section EX
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PLOT DATE = 2/20/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

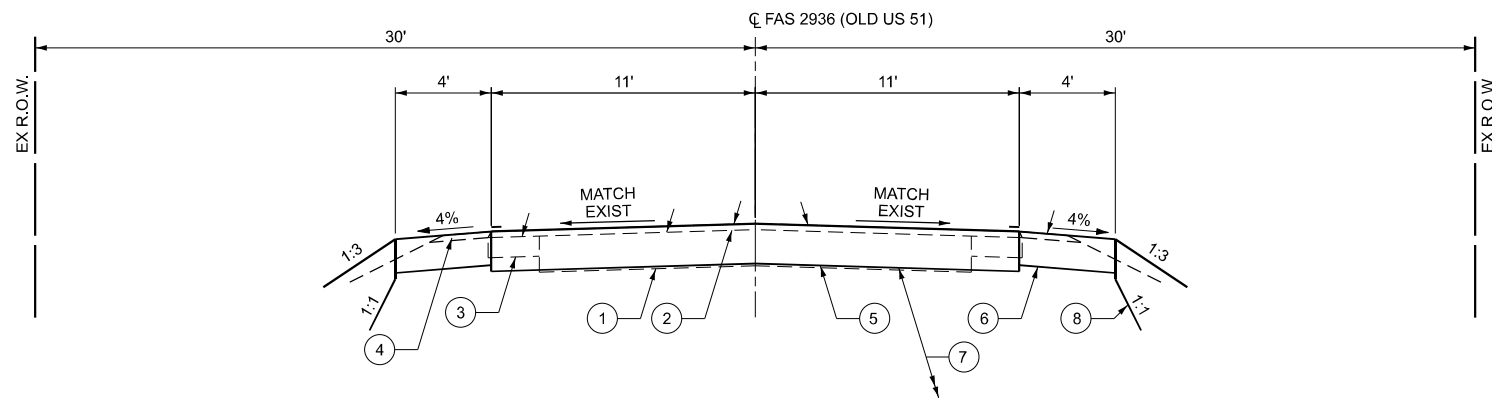
**EXISTING TYPICAL SECTIONS
 SN 091-7094 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	79
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

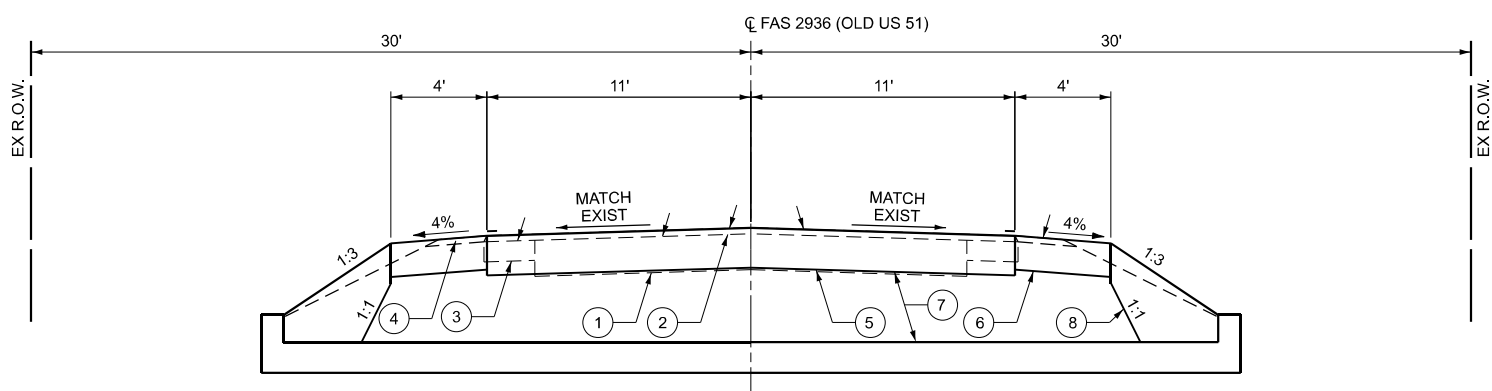
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PROPOSED TYPICAL SECTION

STA 574+24.5 TO STA 574+39.5
 STA 574+45.5 TO STA 574+60.5

- ① EX PCC PAVEMENT (7½")
- ② EX HMA OVERLAYS (3")
- ③ EX HMA WIDENING (5")
- ④ EX AGG WEDGE SHOULDER
- ⑤ PR PCC PAVEMENT, 10"
- ⑥ PR PCC SHOULDER 8"
- ⑦ PR POROUS GRANULAR EMBANKMENT
- ⑧ MAX. PAY LIMITS OF POROUS GRANULAR EMBANKMENT (TYP.)



PROPOSED TYPICAL SECTION

STA 574+39.5 TO STA 574+45.5



USER NAME = Ismailay	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/20/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
 SN 091-7094 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	80
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

PAVEMENT MARKING SCHEDULE					
LOCATION			NOTES	PAINT PAVEMENT MARKING - LINE 4"	
STATION	TO	STATION		WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 091-7094					
574+20	TO	574+65	SKIPDASH		10
574+20	TO	574+65	LEFT EDGE LINE	45	
574+20	TO	574+65	RIGHT EDGE LINE	45	
SUBTOTAL				90	10
TOTAL				100	

CHANGEABLE MESSAGE SIGN		
LOCATION	COMMENT	CHANGEABLE MESSAGE SIGN
STATION		CAL DA
STRUCTURE NO. 091-7022		
14 Days Prior to Closure	2 Boards	28
4 Days During Closure	2 Boards	8
TOTAL		36

PAVEMENT SCHEDULE					
LOCATION			WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PAVEMENT REMOVAL
STATION	TO	STATION	SQ YD	SQ YD	SQ YD
STRUCTURE NO. 091-7094					
574+24.5	TO	574+60.5	88.0	88.0	88.0
TOTAL			88.0	88.0	88.0

SHOULDER SCHEDULE					
LOCATION			EXCAVATING AND GRADING EXISTING SHOULDER	PAVED SHOULDER REMOVAL	PORTLAND CEMENT CONCRETE SHOULDERS 8"
STATION	TO	STATION	UNIT	SQ YD	SQ YD
STRUCTURE NO. 091-7094					
574+24.5	RT TO	574+60.5	RT	0.36	6
574+24.5	LT TO	574+60.5	LT	0.36	6
TOTAL			1	12	32

MODEL: Schedule Sheet 1
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USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 8/28/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SN 091-7094 (P)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	81
			CONTRACT NO. 78A13	
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
STATION TO STATION	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD
STRUCTURE NO. 091-7094							
	28	25%	21	67	46		46
TOTAL	28						46

SEEDING/EROSION CONTROL SCHEDULE													
LOCATION		AREA	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
STATION	TO STATION	SQ FT	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	POUND	EACH	FOOT
STRUCTURE NO. 091-7094													
573+98	RT TO 574+87									80			
574+00	LT TO 574+87									71			
573+98	RT TO 574+87												84
574+00	LT TO 574+87												78
574+25	LT TO 574+60	211	0.02	0.02	2.0	2.0	2.0	0.04	0.02		4		
574+25	RT TO 574+60	207	0.02	0.02	2.0	2.0	2.0	0.04	0.02		4		
574+88	RT											10	
TOTAL			0.04	0.04	4	4	4	0.08	0.04	151	8	10	162

MODEL: Schedule Sheet 2
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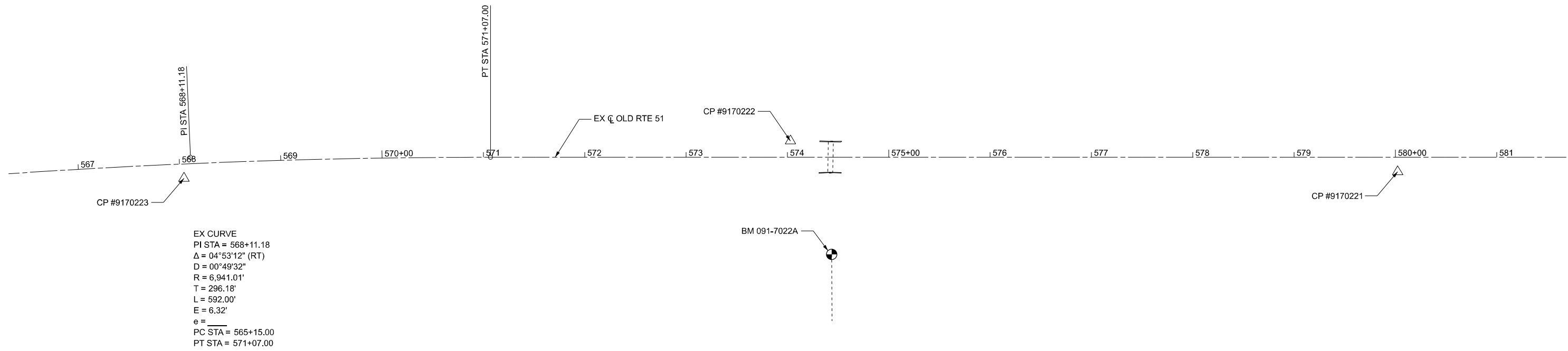
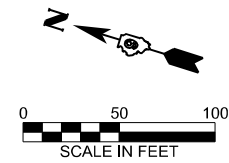
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PLOT DATE = 2/24/2026	DATE - 8/28/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

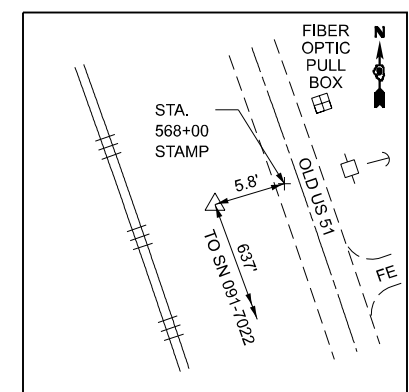
SCHEDULE OF QUANTITIES			
SN 091-7094 (P)			
SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	82
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

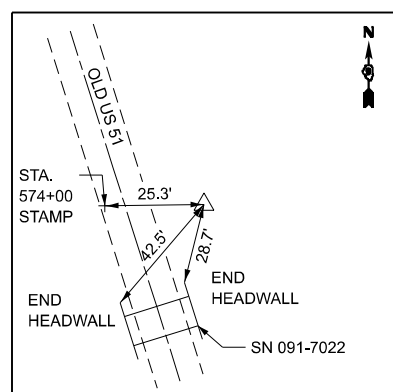
*** (30G,104A)(B-1);(13,14A)(CR-1)



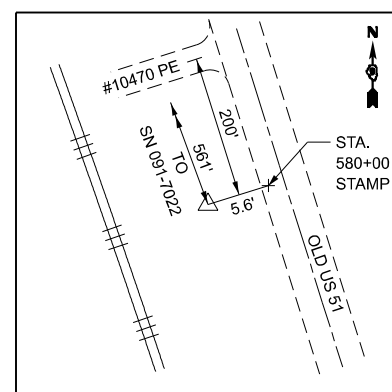
EX CURVE
 PI STA = 568+11.18
 $\Delta = 04^{\circ}53'12''$ (RT)
 $D = 00^{\circ}49'32''$
 $R = 6,941.01'$
 $T = 296.18'$
 $L = 592.00'$
 $E = 6.32'$
 $e =$
 PC STA = 565+15.00
 PT STA = 571+07.00



CONTROL POINT #9170223
 IRON PIPE W/ IDOT CAP
 STA. 568+03.73, 14.21' RT.
 N 246249.820
 E 2586051.152
 ELEV 366.71



CONTROL POINT #9170222
 IRON PIPE W/ IDOT CAP
 STA. 574+03.00, 16.12' LT.
 N 245689.745
 E 2586265.513
 ELEV 365.05



CONTROL POINT #9170221
 IRON PIPE W/ IDOT CAP
 STA. 580+02.24, 14.38' RT.
 N 245108.845
 E 2586415.741
 ELEV 365.02

BENCHMARKS

BM 091-7022A
 "□" CUT ON 48" CMP FOR RAILROAD, WESTERLY FROM
 SN 091-7022 ON SAME DITCH. PIPE HAS 2 "□" CUTS. DO
 NOT USE EASTERN "□" WITH "X" IN CENTER.
 ELEV. 363.25

MODEL: ATB Sheet
 FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-948 - PE HI\BB\091-7022\CAD\Drawings\0917022-sh1-ATB.dgn



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PLOT DATE = 1/26/2026	DATE - 7/25/25	REVISED -

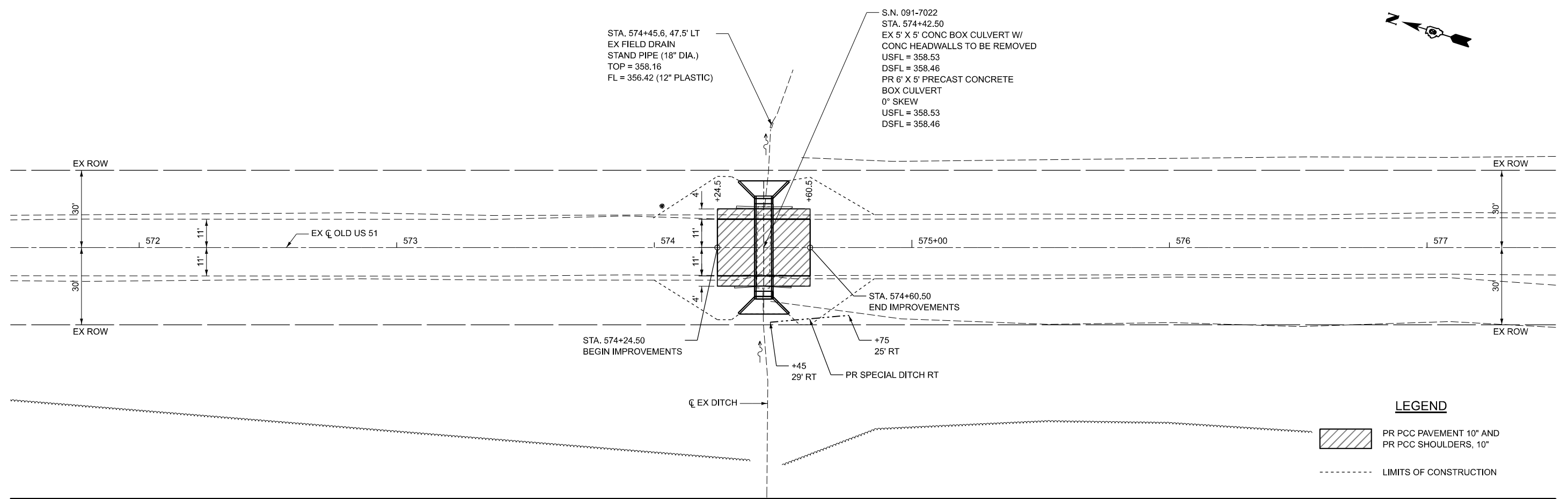
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 SN 091-7094 (P)**

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

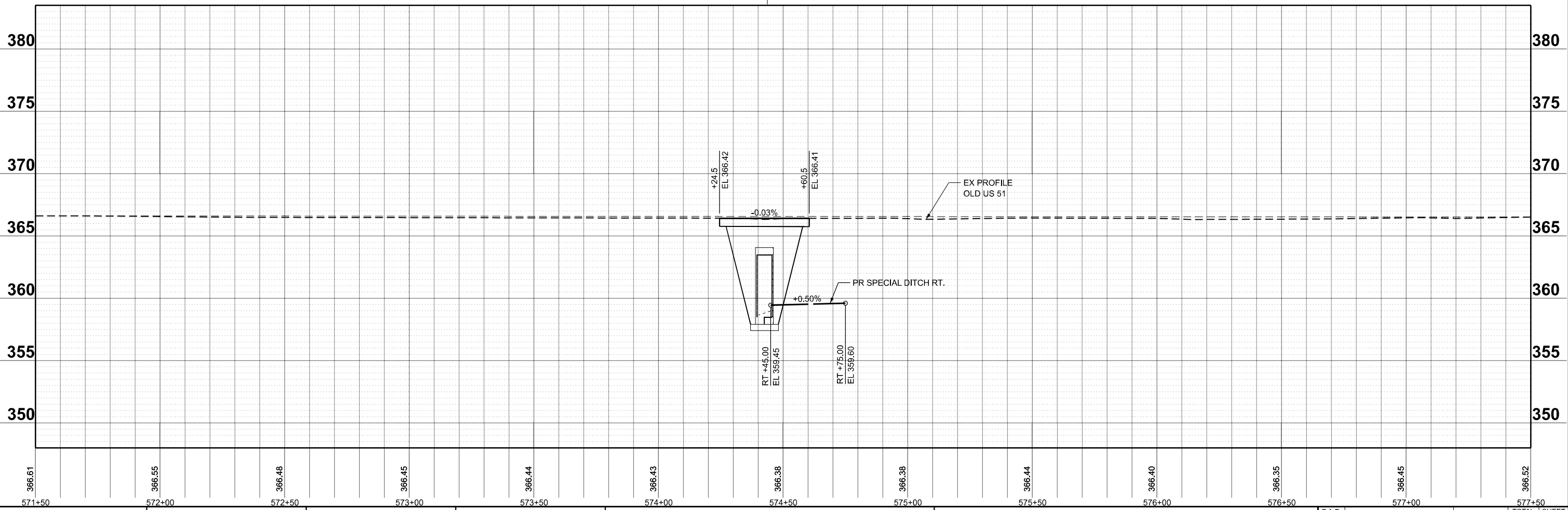
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	83
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



LEGEND

	PR PCC PAVEMENT 10" AND PR PCC SHOULDERS, 10"
	LIMITS OF CONSTRUCTION



MODEL: Plan and Profile Sheet
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\B0917-7022\CADData\CADSheets\0978A13-0917022-shp-Prf.dgn



USER NAME = Ismalley	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
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PLOT DATE = 3/13/2026	DATE - 8/18/25	REVISED -

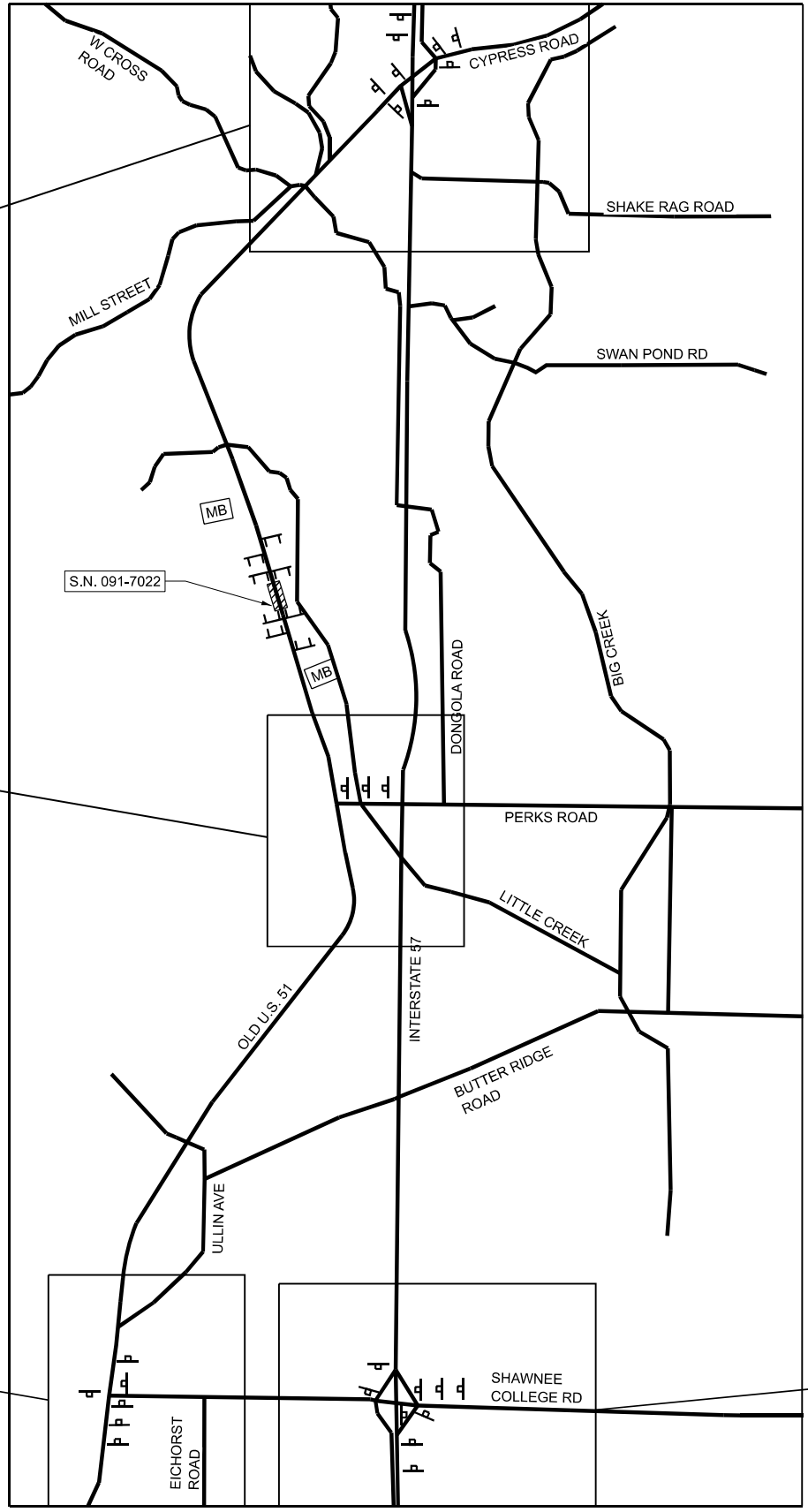
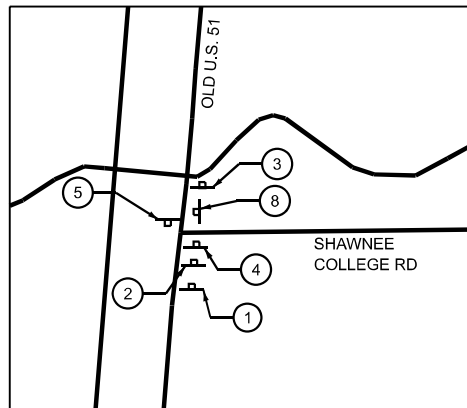
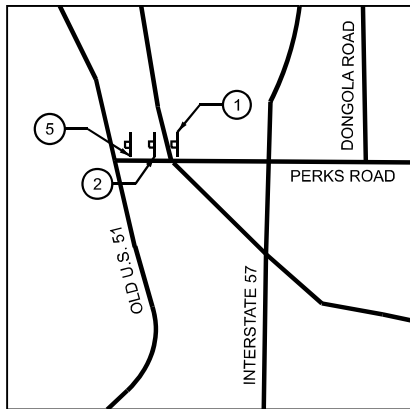
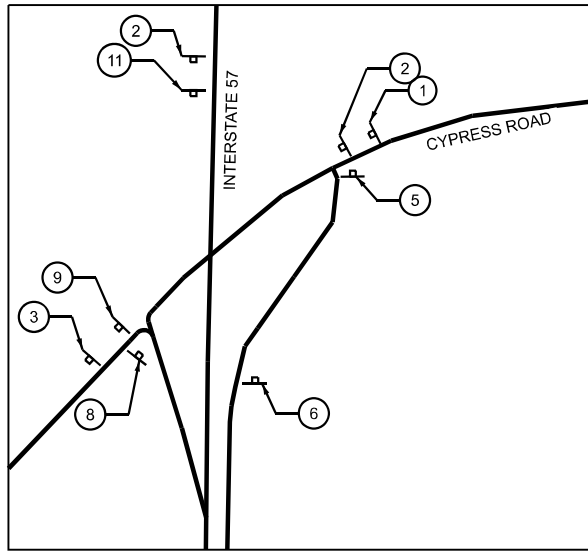
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
SN 091-7094 (P)

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. A 571+50.00 TO STA. A 577+50.00

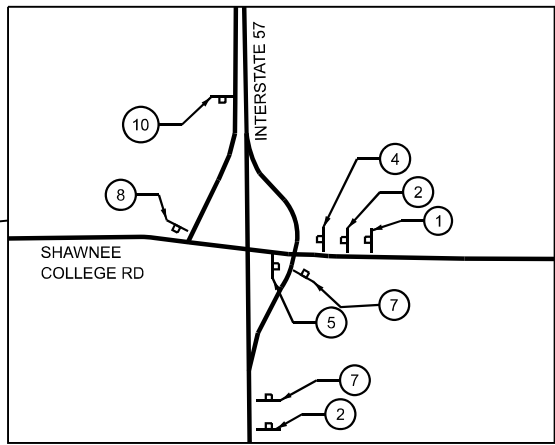
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***		114	84
CONTRACT NO. 78A13				

*** (30G,104A)(B-1);(13,14A)(CR-1)



NOTES:

1. THE CONTRACTOR HAS THE OPTION OF USING METAL POSTS INSTEAD OF WOOD.
2. ALL SIGNS SHALL BE BLACK ON ORANGE. THE POSTS SHALL BE PLACED 12 FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS AND HARDWARE REQUIRED TO INSTALL THE DETOUR ROUTE SIGNING SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
4. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724. THIS WORK WILL NOT BE PAID FOR. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. THE RELOCATING, MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE INCLUDED IN THE COST OF DETOUR SIGNING.
6. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
7. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
8. THE DISTRICT 9 OPERATIONS ENGINEER SHALL CONTACTED 10 DAYS PRIOR TO THE ERECTION OF SIGNS.
9. TYPE III BARRICADES WITH ROAD CLOSED SIGNS AS SHOWN ON HWY STD 701901 SHALL BE ERECTED AT EACH END OF THE WORK SITE DURING ROAD CLOSURE.



LEGEND

- ① ROAD CLOSED AHEAD
- ② DETOUR AHEAD
- ③ END DETOUR
- ④ RIGHT TURN NORTH US 51 DETOUR
- ⑤ LEFT TURN NORTH US 51 DETOUR
- ⑥ RIGHT MERGE NORTH US 51 DETOUR
- ⑦ STRAIGHT NORTH US 51 DETOUR
- ⑧ RIGHT TURN SOUTH US 51 DETOUR
- ⑨ LEFT TURN SOUTH US 51 DETOUR
- ⑩ RIGHT MERGE SOUTH US 51 DETOUR
- ⑪ STRAIGHT SOUTH US 51 DETOUR
- ⑫ LEFT MERGE SOUTH US 51 DETOUR
- MB CHANGEABLE MESSAGE SIGN

MODEL: Default
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	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

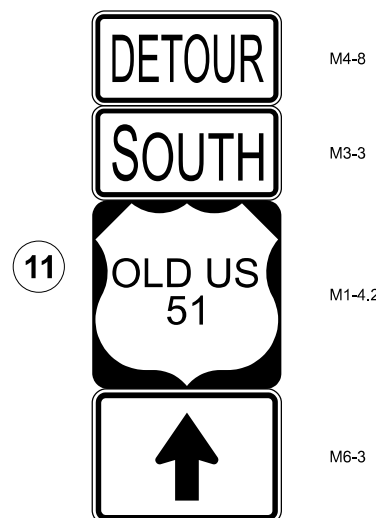
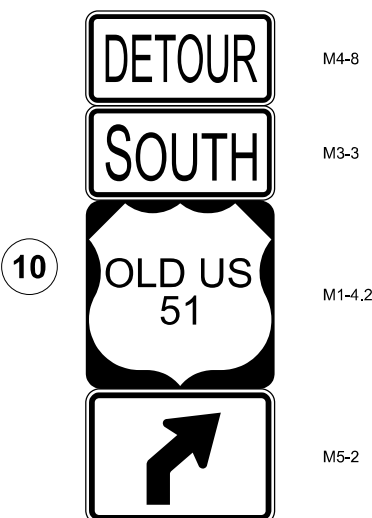
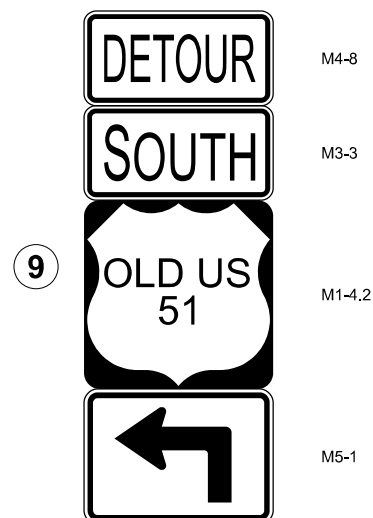
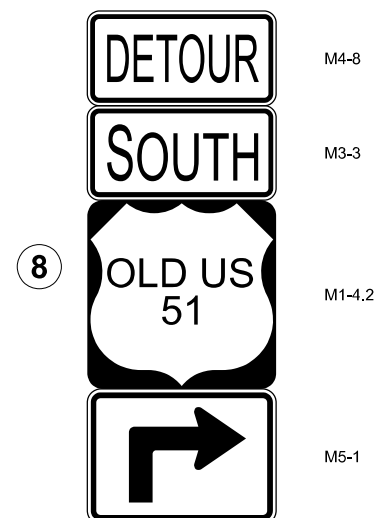
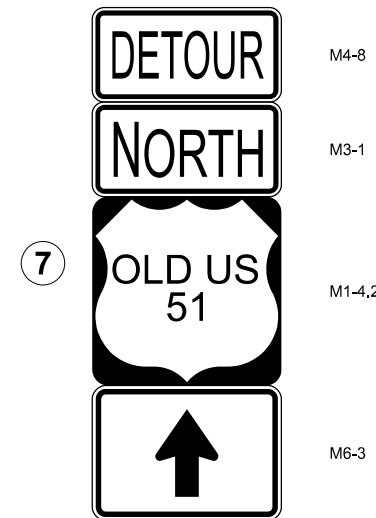
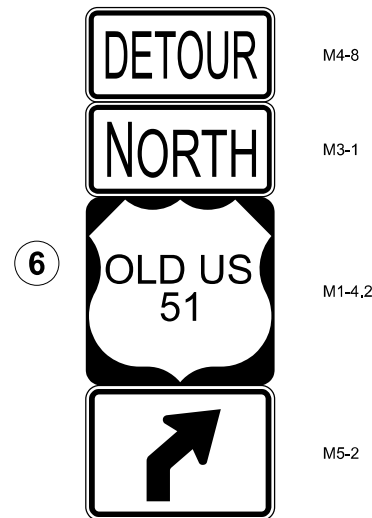
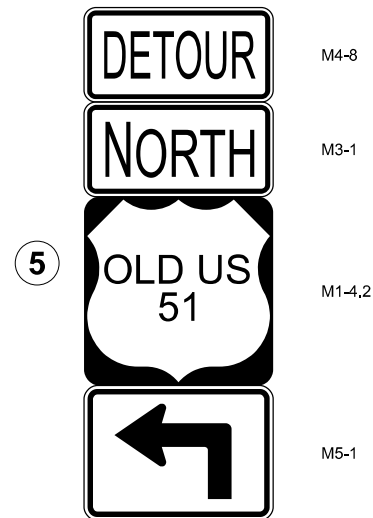
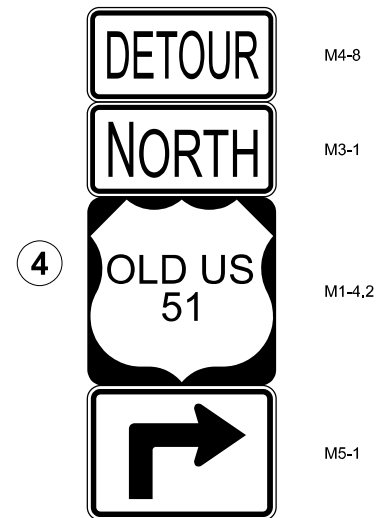
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE
S.N. 091-7094 (P)**

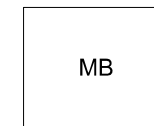
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	85
CONTRACT NO. 78A13				

*** (30G, 104A)(B-1);(13,14A)(CR-1)



MESSAGE BOARDS



2 REQUIRED
(NOTIFICATION- 2 WEEKS PRIOR
TO START OF WORK AND DURATION
OF THE CLOSURE)

PRIOR TO
CLOSURE

OLD US 51
WILL BE
CLOSED

XX
MILES
AHEAD

DATE
TO
DATE

DURING
CLOSURE

OLD US 51
CLOSED

XX
MILES
AHEAD

LOCAL
TRAFFIC
ONLY

MODEL: Default
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	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

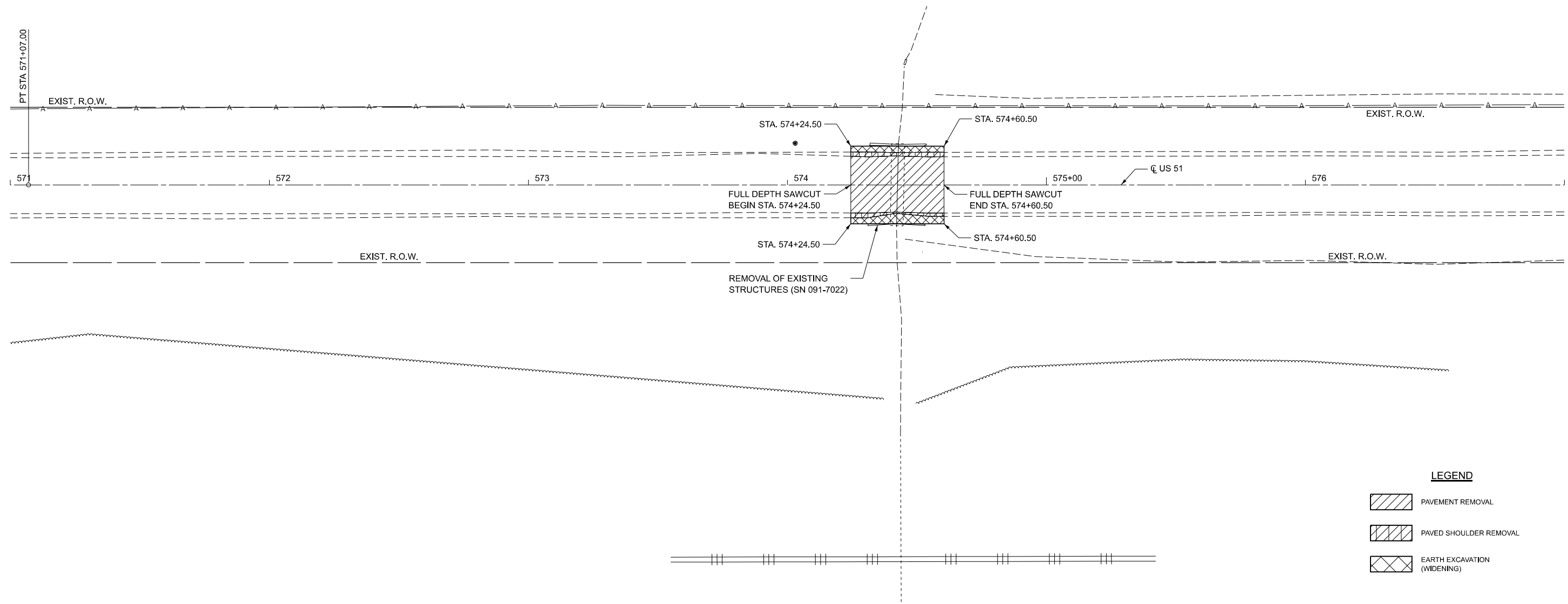
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE SIGN DETAILS
S.N. 091-7094 (P)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	86
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G, 104A)(B-1);(13,14A)(CR-1)



LEGEND

- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- EARTH EXCAVATION (WIDENING)

MODEL: Removal (Sheet)
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	DRAWN - LH	REVISED -
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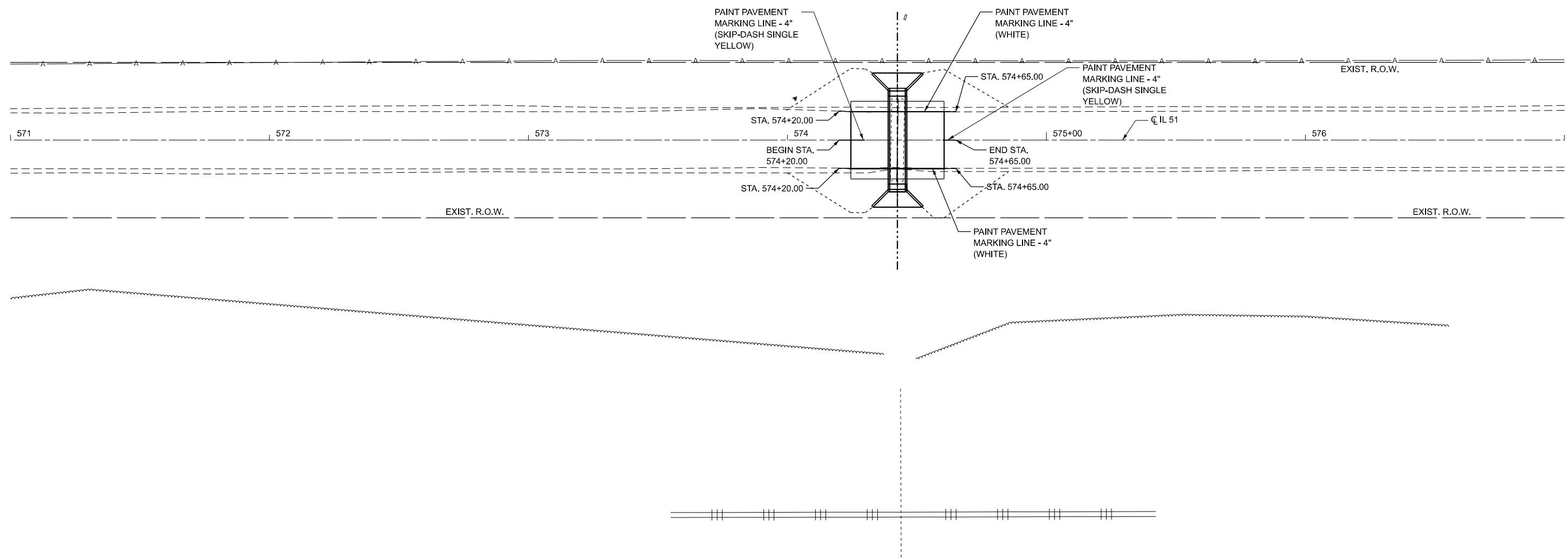
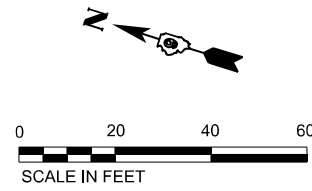
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
SN 091-7094 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. A 571+00.00 TO STA. A 577+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	87
CONTRACT NO. 78A13				

ILLINOIS FED. AID PROJECT
• (30G, 104A)(B-1);(13,14A)(CR-1)



MODEL: PAVT MARKS (Sheet)
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USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
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PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

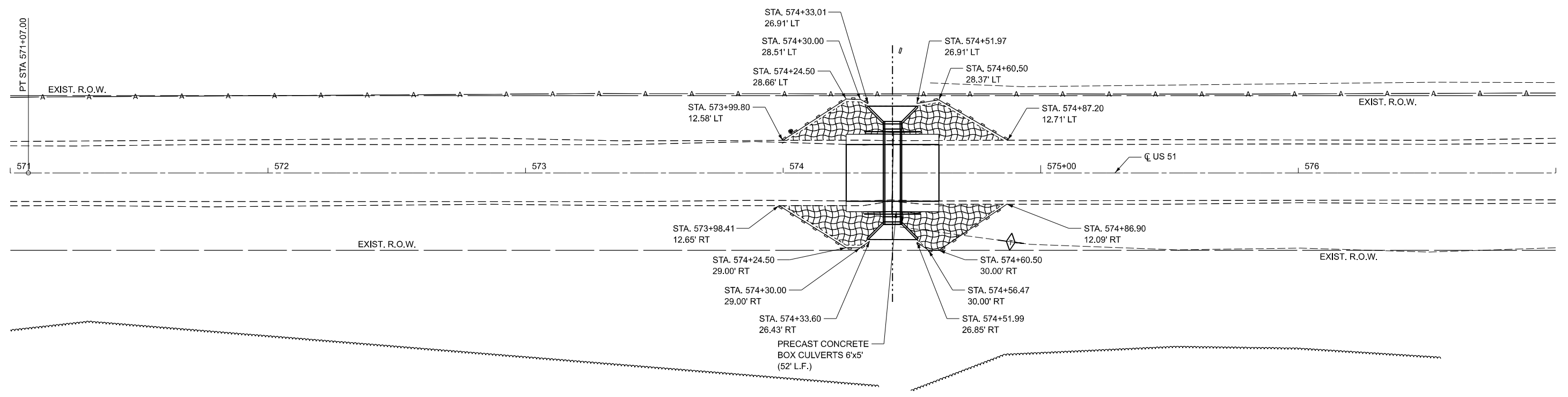
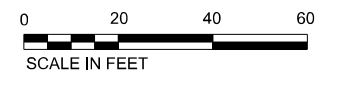
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
SN 091-7094 (P)**





SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. A 571+00.00 TO STA. A 577+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	88
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• ***(30G, 104A)(B-1);(13,14A)(CR-1)



LEGEND

-  EROSION CONTROL BLANKET
-  CONSTRUCTION LIMITS
-  TEMPORARY DITCH CHECKS
-  PERIMETER EROSION BARRIER

MODEL: Ero control1 [Sheet]
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	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

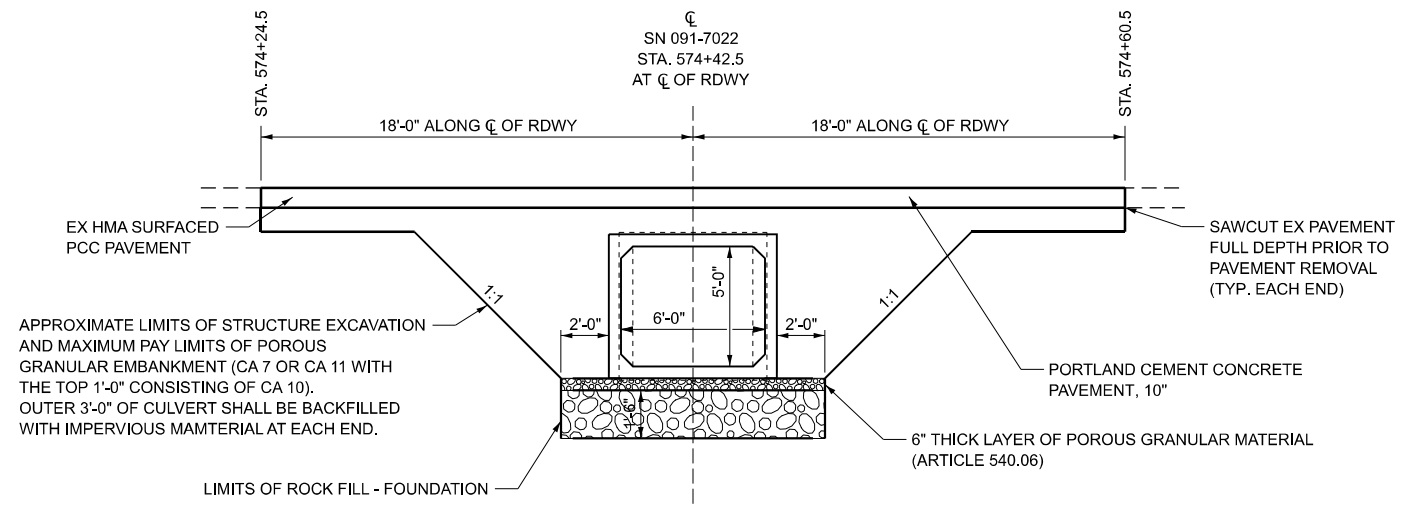
**EROSION CONTROL PLAN
SN 091-7094 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. A 571+00.00 TO STA. A 577+00.00

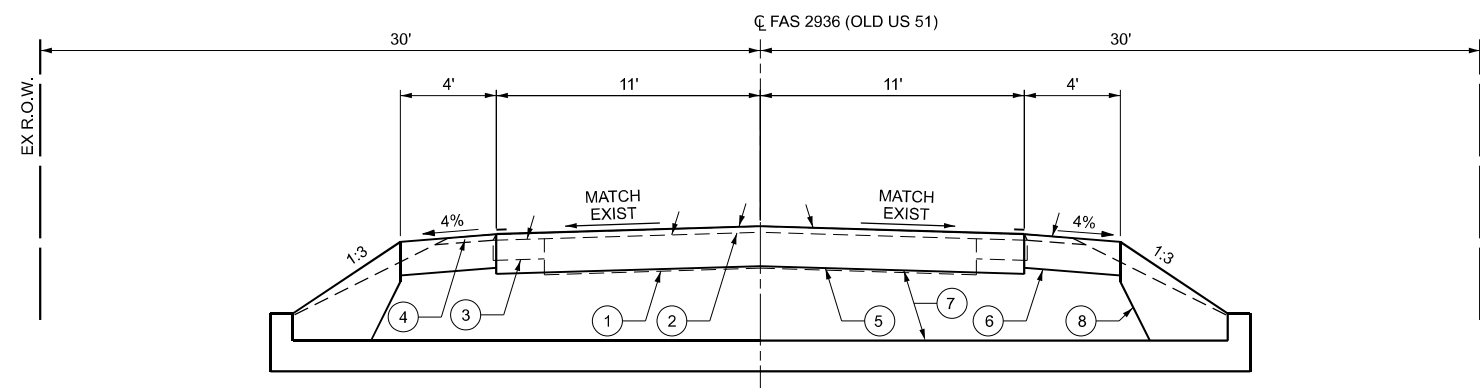
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VARIOUS	***	UNION	114	89
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• (30G, 104A)(B-1);(13,14A)(CR-1)

LIMITS OF POROUS GRANULAR EMBANKMENT



SECTION WITHIN PAVEMENT REMOVAL



- ① EX PCC PAVEMENT (7 1/2")
- ② EX HMA OVERLAYS (3")
- ③ EX HMA WIDENING (5")
- ④ EX AGG WEDGE SHOULDER
- ⑤ PR PCC PAVEMENT, 10"
- ⑥ PR PCC SHOULDER 8"
- ⑦ PR POROUS GRANULAR EMBANKMENT
- ⑧ MAX. PAY LIMITS OF POROUS GRANULAR EMBANKMENT (TYP.)

MODEL: Typical Section (Sheet)
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	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 1/26/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRANULAR CULVERT BACKFILL DETAILS
SN 091-7094 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	90
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

Benchmark: Chiseled "□" on the center of East HDWL of existing culvert. Elev.

Existing Structure: The existing structure SN 091-7022 is a 30 feet long, 5' x 5' concrete box culvert with wing walls to be removed.

The road will be closed during construction.

INDEX OF SHEETS

1. General Plan and Elevation
- 2.-3. Precast Concrete Box Culvert Apron End Section Details

GENERAL NOTES

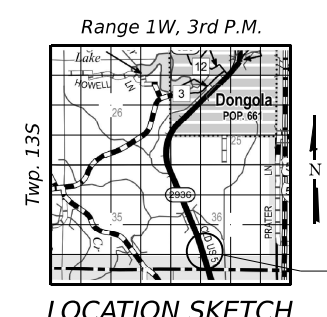
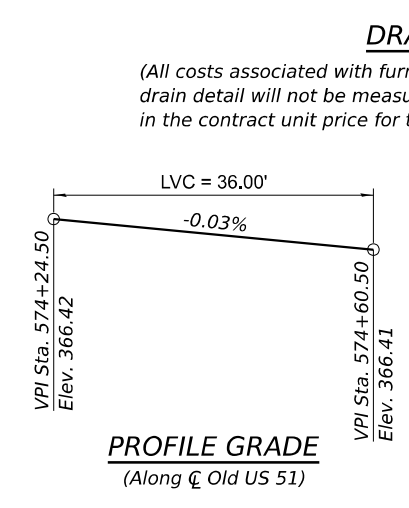
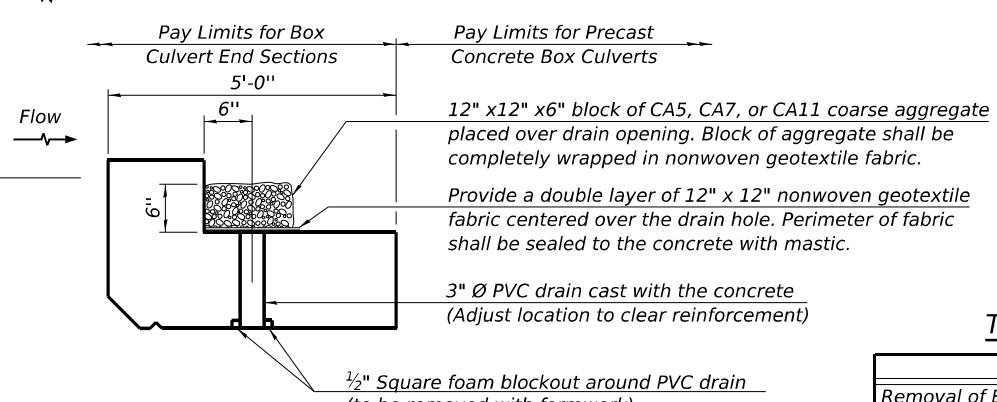
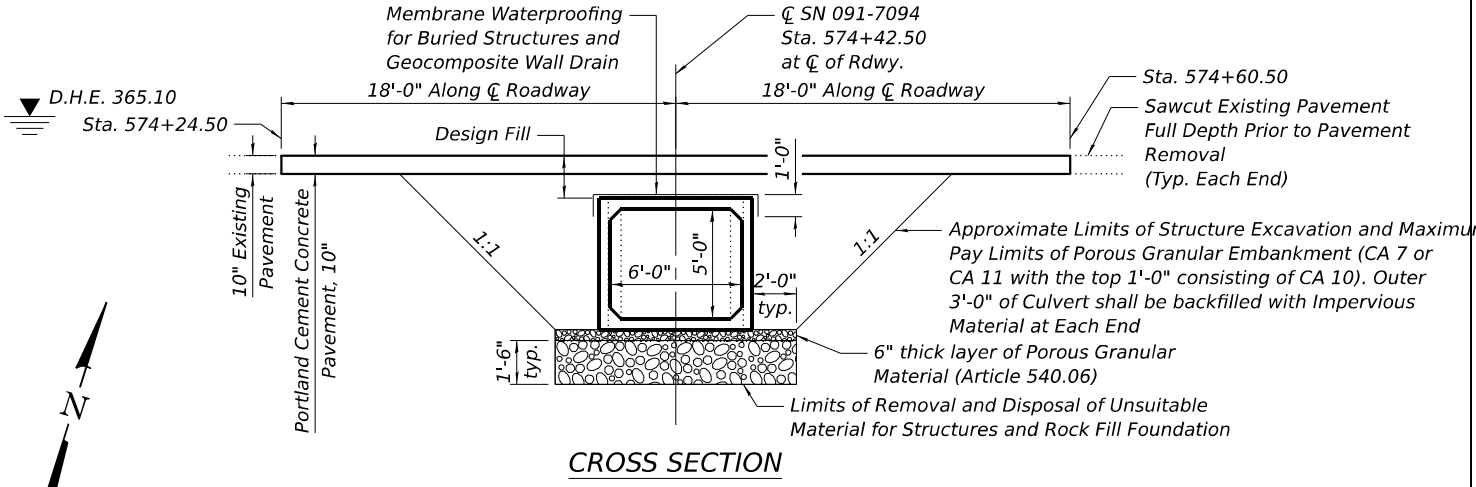
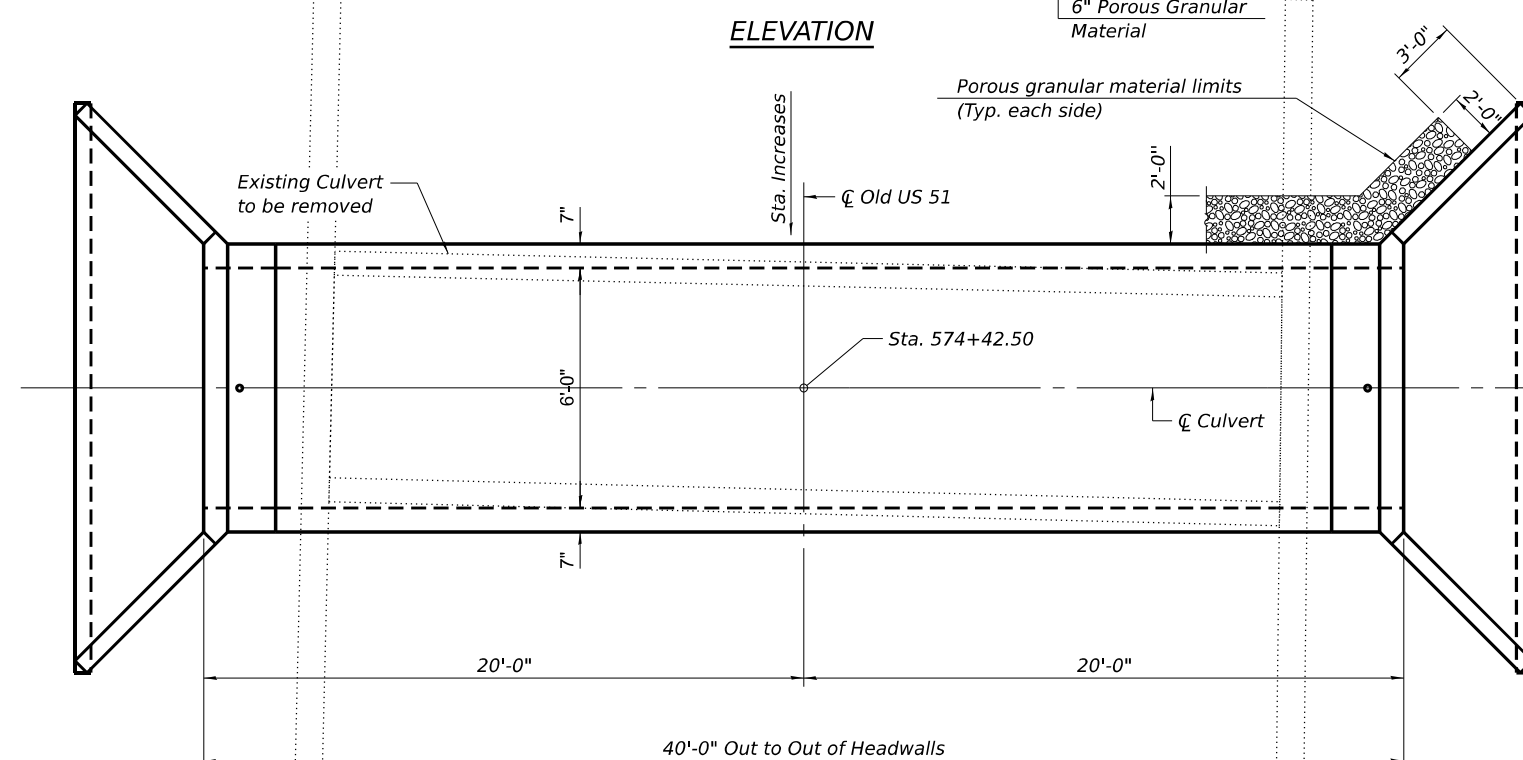
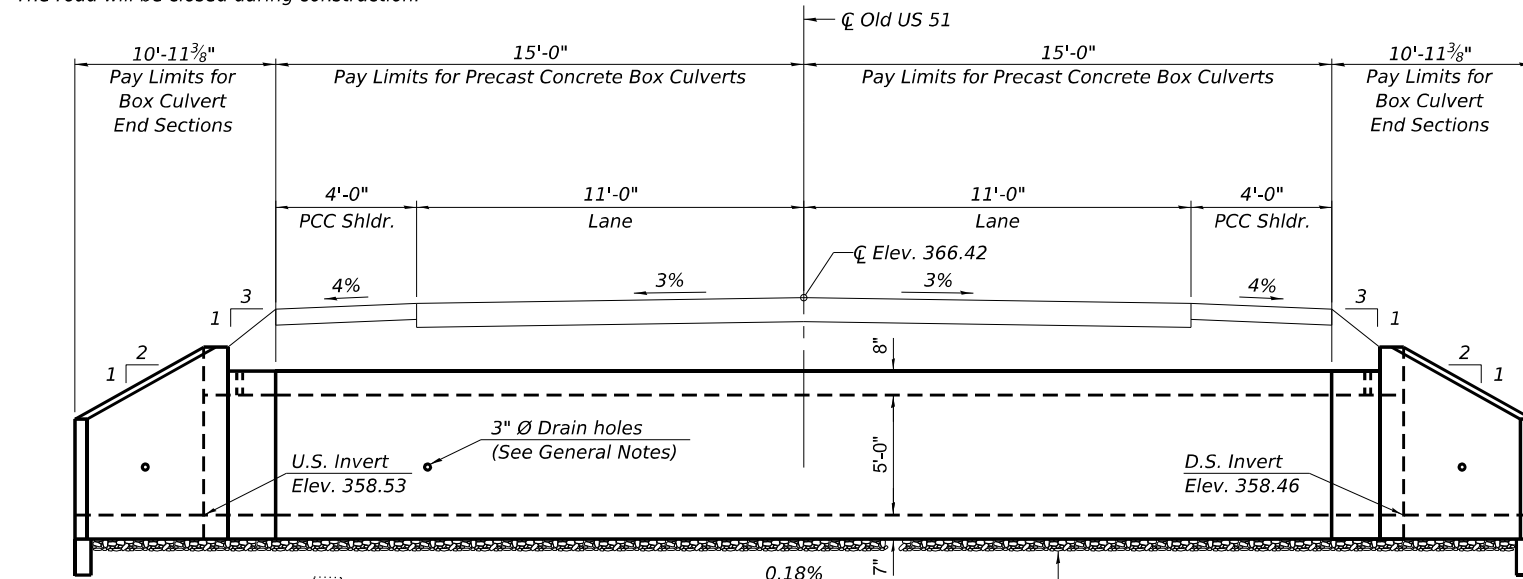
The design fill height for this box is 2.3 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

The Contractor shall halt the excavation at the bottom of the 6" porous granular material under the culvert and request a soils test from IDOT District 9. The limits and quantities shown for removal and replacement of soil below the culvert shall then be evaluated and modified accordingly by the District Geotechnical Engineer.

Geocomposite Wall Drain shall be according to Section 591 except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures, No. 3	Each	1
Box Culvert End Sections, Culvert No. 3	Each	2
Precast Concrete Box Culverts, 6' x 5'	Foot	30
Porous Granular Embankment	Cu. Yd.	127
Geocomposite Wall Drain	Sq. Yd.	41
Membrane Waterproofing System for Buried Structures	Sq. Yd.	41
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	39
Rock Fill - Foundation	Ton	60
Structure Excavation	Cu. Yd.	66

WATERWAY INFORMATION

Drainage Area = 0.1 sq. mi. Low Grade Elev. = 366.0 @ Sta. 1000

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	150	25	30	360.7	3.0	2.5	363.7	363.2
Base	50	251	25	30	361.3	4.2	3.8	365.5	365.1
Max. Calc.	100	305	25	30	361.5	4.3	4.1	365.8	365.6
	500	458	25	30	362.1	4.3	4.2	366.4	366.3

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

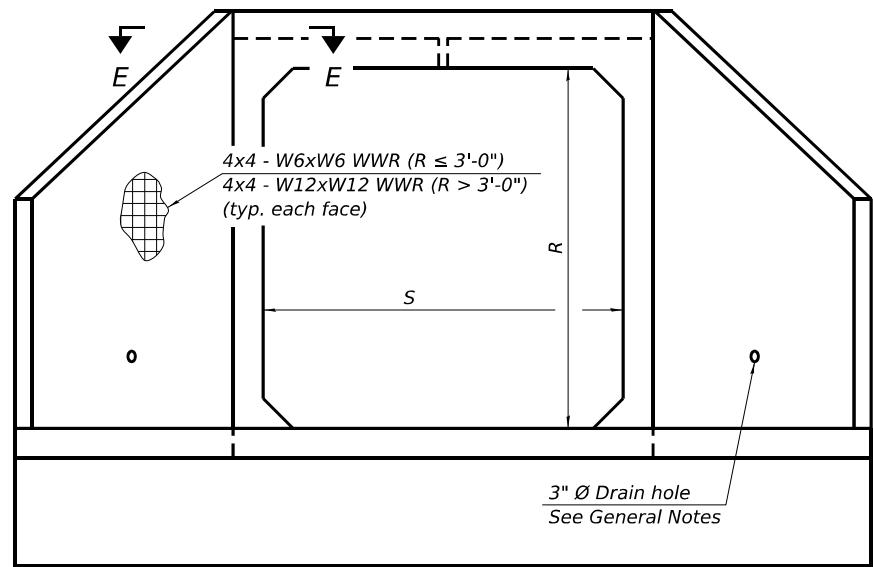
LOADING HL-93

DESIGN STRESSES
PRECAST UNITS
f_c = 5,000 psi
f_y = 65,000 psi (Welded Wire Reinforcement)

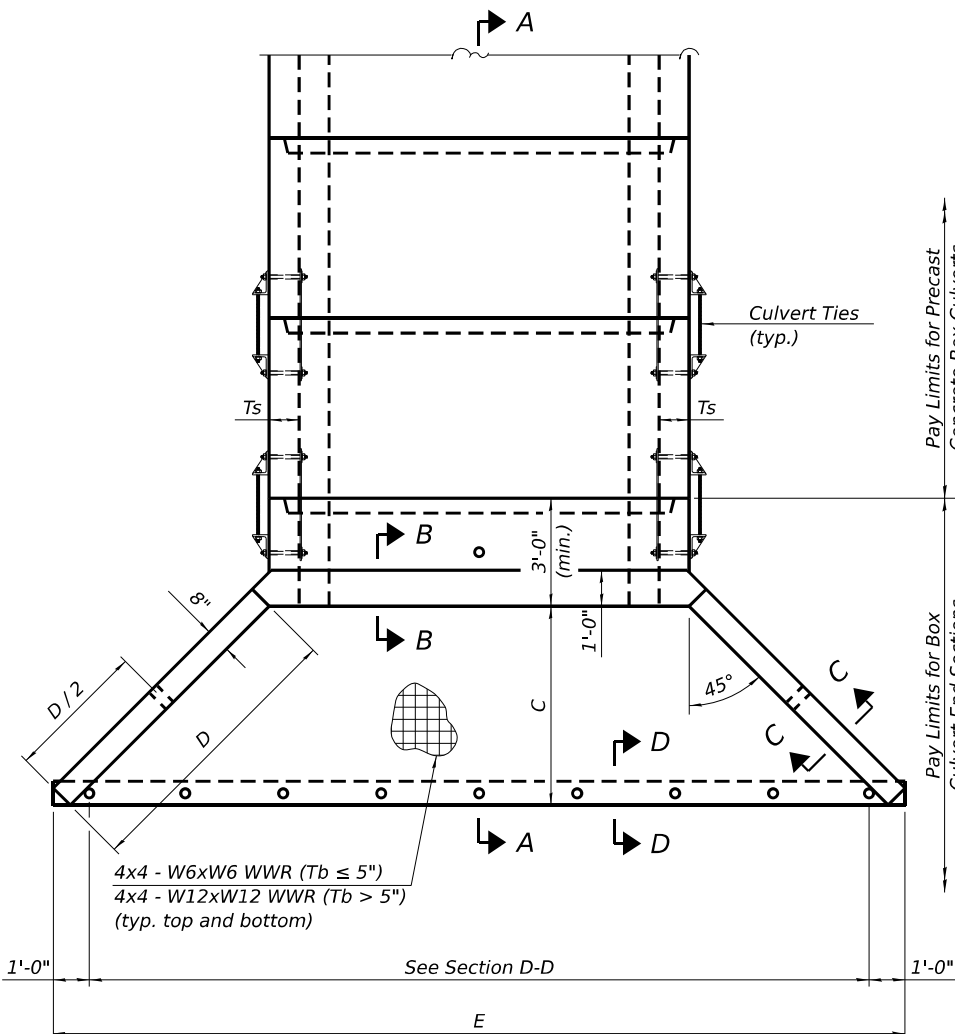
GENERAL PLAN AND ELEVATION
OLD US 51 OVER UNNAMED TRIBUTARY
F.A.S. RTE. 2936 SEC. 14
UNION COUNTY
STATION 574+42.50
S.N. 091-7094

MODEL: Sheet
FILE NAME: I:\2023\3044 IDOT D9 - PTB 207-048 - PE HI\BB091-7022\CADD\CAD\Drawings\0917094-78A13-001-GPE.dgn
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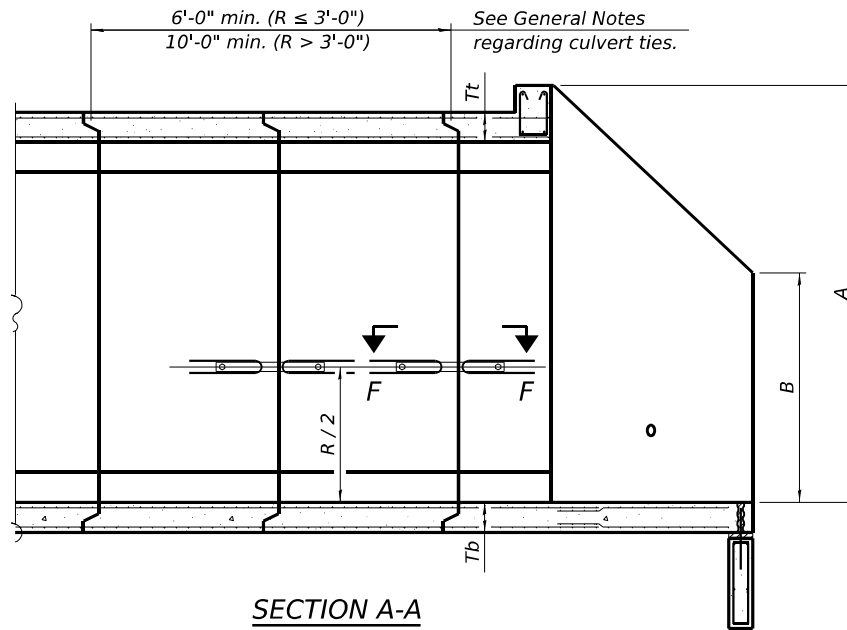
<p>KUHN & TRELLO CONSULTING ENGINEERS A Limited Liability Company 109 N. 7th Street, 2nd Floor Springfield, IL 62761 Phone: 217-629-0044 Professional Design Firm No. 284-006516</p>	USER NAME =	DESIGNED - PDA	REVISD -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	F.A.S. RTE. 2936	SECTION 14A(CR-1)	COUNTY UNION	TOTAL SHEETS 114	SHEET NO. 91
	PLOT SCALE =	CHECKED - PRR	REVISD -		SHEET 1 OF 3 SHEETS	ILLINOIS FED. AID PROJECT		CONTRACT NO. 78A13	



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	10'-4 ⁵ / ₈ "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 ⁷ / ₈ "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	12'-4 ⁵ / ₈ "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ / ₈ "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 ¹ / ₂ "	2'-2 ¹ / ₂ "	2'-11 ³ / ₈ "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-11 ³ / ₈ "	3'-10"	11'-2 ³ / ₈ "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 ¹ / ₂ "	2'-8 ¹ / ₂ "	3'-11 ³ / ₈ "	5'-7"	13'-8 ¹ / ₂ "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ / ₂ "	5'-3"	13'-2 ³ / ₈ "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 ¹ / ₂ "	3'-2 ¹ / ₂ "	4'-11 ³ / ₈ "	7'-0"	15'-8 ¹ / ₂ "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 ³ / ₈ "	6'-8"	15'-2 ¹ / ₂ "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 ¹ / ₄ "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	14'-10 ¹ / ₈ "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 ¹ / ₄ "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	16'-10 ¹ / ₈ "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 ¹ / ₄ "	6'-9"	16'-5 ⁷ / ₈ "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	18'-10 ¹ / ₈ "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 ¹ / ₄ "	8'-2"	18'-5 ⁷ / ₈ "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	13'-10 ⁵ / ₈ "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	16'-0 ¹ / ₈ "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	15'-10 ⁵ / ₈ "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	18'-0 ¹ / ₈ "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 ³ / ₄ "	6'-11"	17'-10 ³ / ₄ "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	20'-0 ¹ / ₈ "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ / ₄ "	8'-4"	19'-10 ³ / ₄ "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	22'-0 ¹ / ₂ "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 ³ / ₄ "	9'-9"	21'-10 ³ / ₄ "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	15'-2"	4.9	Yes
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7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	21'-2 ¹ / ₈ "	8.9	Yes
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8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	18'-2 ¹ / ₈ "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	20'-2 ¹ / ₈ "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	22'-2 ¹ / ₈ "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	24'-2 ¹ / ₄ "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 ³ / ₄ "	4'-4"	17'-6 ⁷ / ₈ "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 ³ / ₄ "	5'-9"	19'-6 ⁷ / ₈ "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 ³ / ₄ "	7'-2"	21'-6 ⁷ / ₈ "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 ³ / ₈ "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 ³ / ₈ "	9'-11"	25'-5 ⁵ / ₈ "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 ¹ / ₂ "	4'-5"	18'-10 ¹ / ₄ "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 ¹ / ₂ "	5'-10"	20'-10 ¹ / ₄ "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 ¹ / ₂ "	7'-3"	22'-10 ³ / ₈ "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 ¹ / ₂ "	8'-8"	24'-10 ³ / ₈ "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 ¹ / ₂ "	10'-1"	26'-10 ³ / ₈ "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 ⁷ / ₈ "	4'-7"	20'-3 ¹ / ₈ "	8.2	No
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11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 ¹ / ₄ "	7'-4"	24'-1 ³ / ₄ "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 ¹ / ₄ "	8'-9"	26'-1 ³ / ₄ "	13.3	Yes
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12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ³ / ₈ "	6'-1"	23'-6 ¹ / ₂ "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 ³ / ₈ "	7'-6"	25'-6 ⁵ / ₈ "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 ³ / ₈ "	8'-11"	27'-6 ⁵ / ₈ "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 ³ / ₈ "	10'-4"	29'-6 ⁵ / ₈ "	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

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SCB-AES

5-15-2023



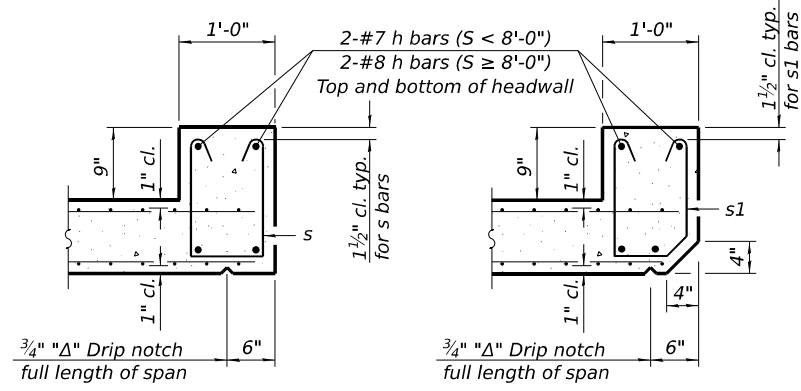
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 091-7094

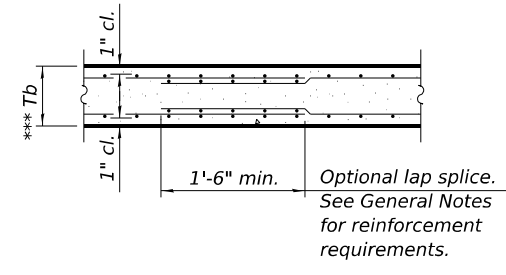
SHEET 2 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



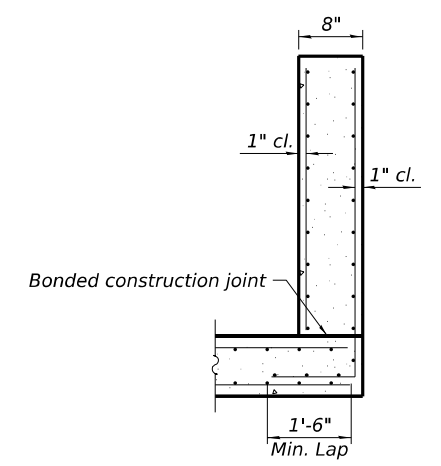
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

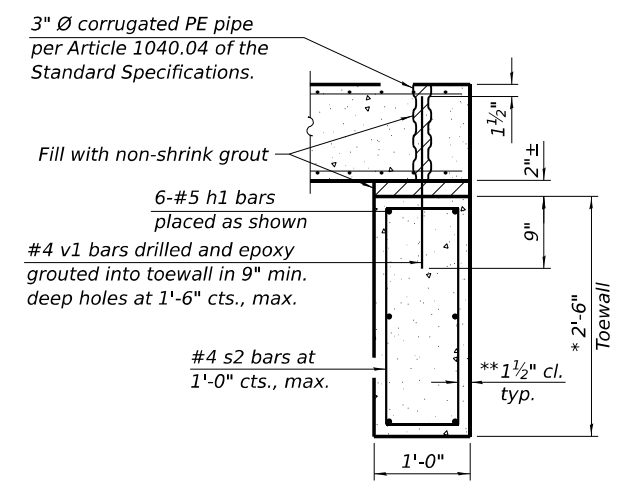


SECTION B-B
(Bottom Slab)

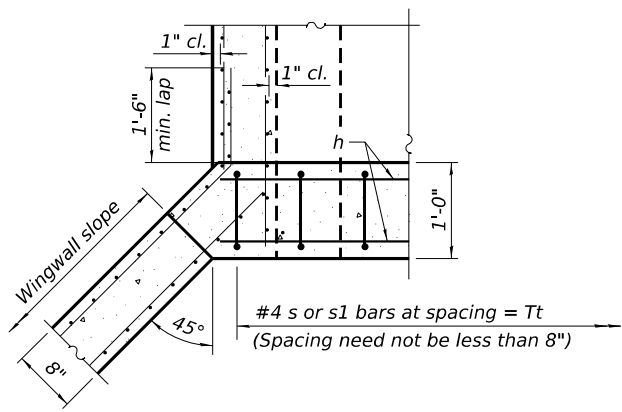
*** This dimension shall be increased by 2" for CIP construction.



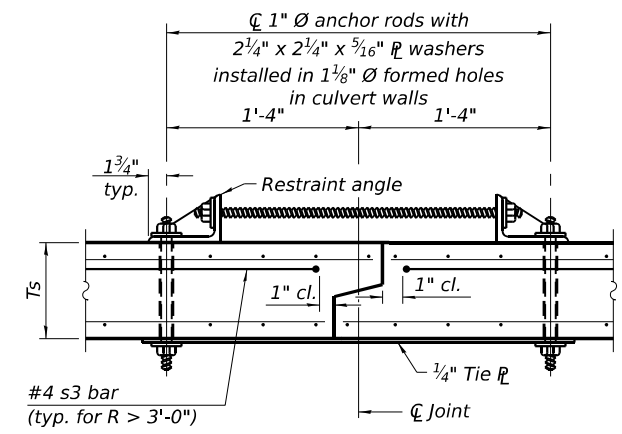
SECTION C-C



SECTION D-D



SECTION E-E



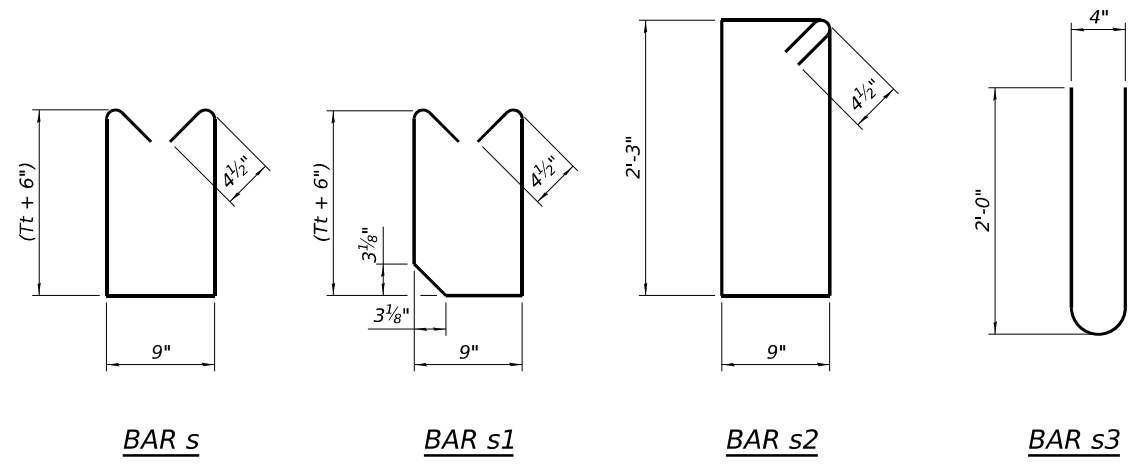
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

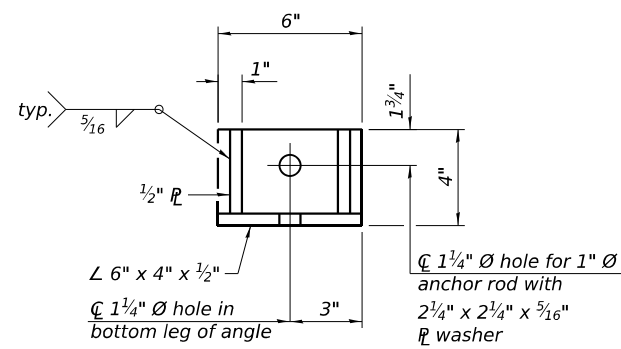


BAR s

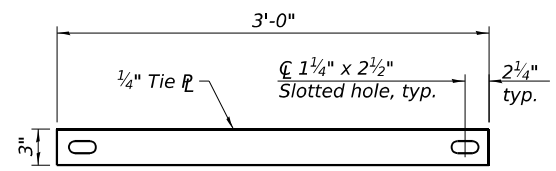
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

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5-15-2023

(Sheet 2 of 2)



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PLOT SCALE =	CHECKED - PRR	REVISED -
PLOT DATE =	DRAWN - JDC	REVISED -
	CHECKED - MJT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 091-7094

SHEET 3 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2936	14A(CR-1)	UNION	114	93
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

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

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

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PLOT DATE = 2/19/2026	DATE - 1/20/26	REVISED -

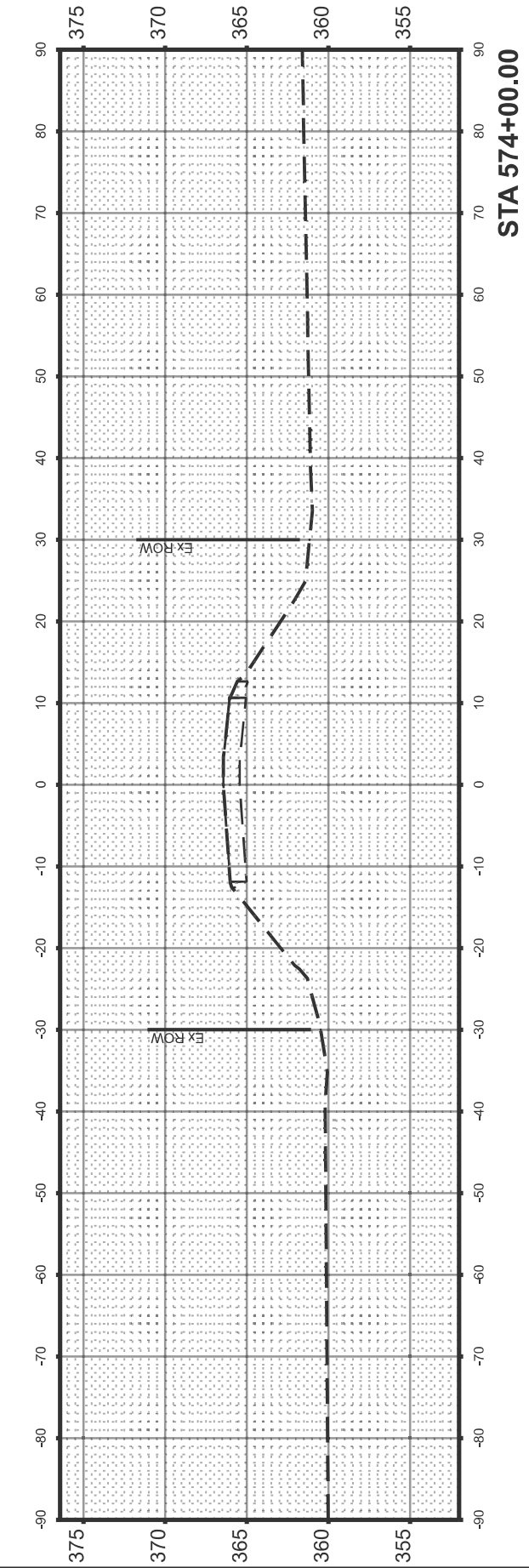
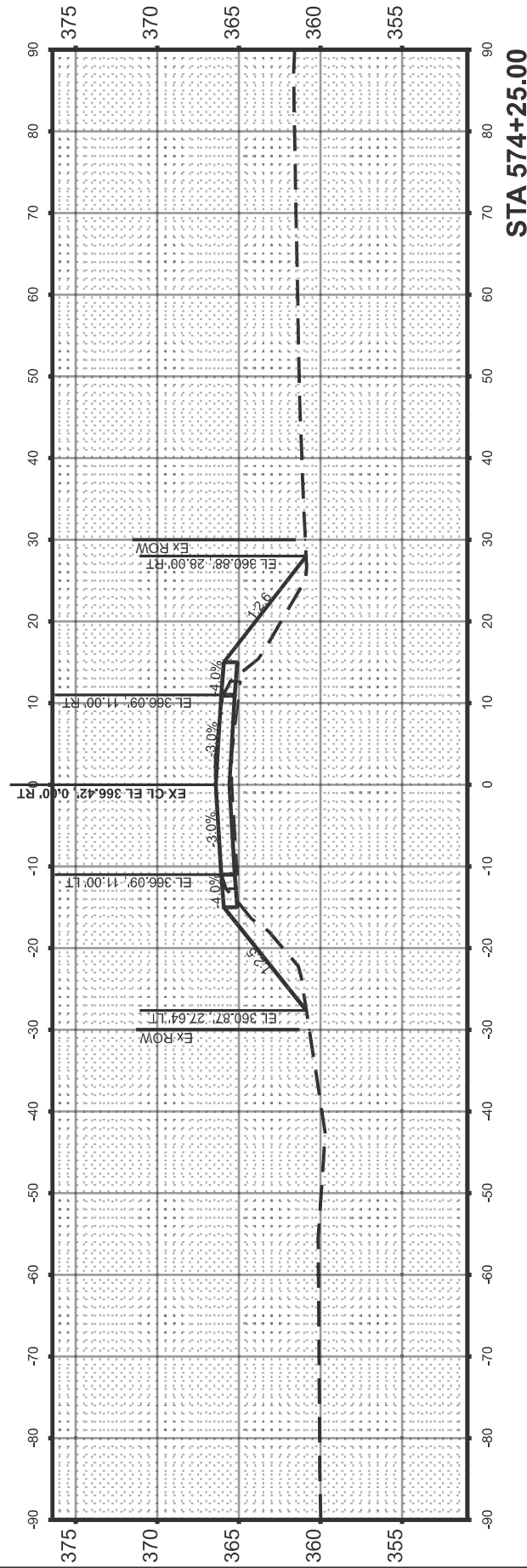
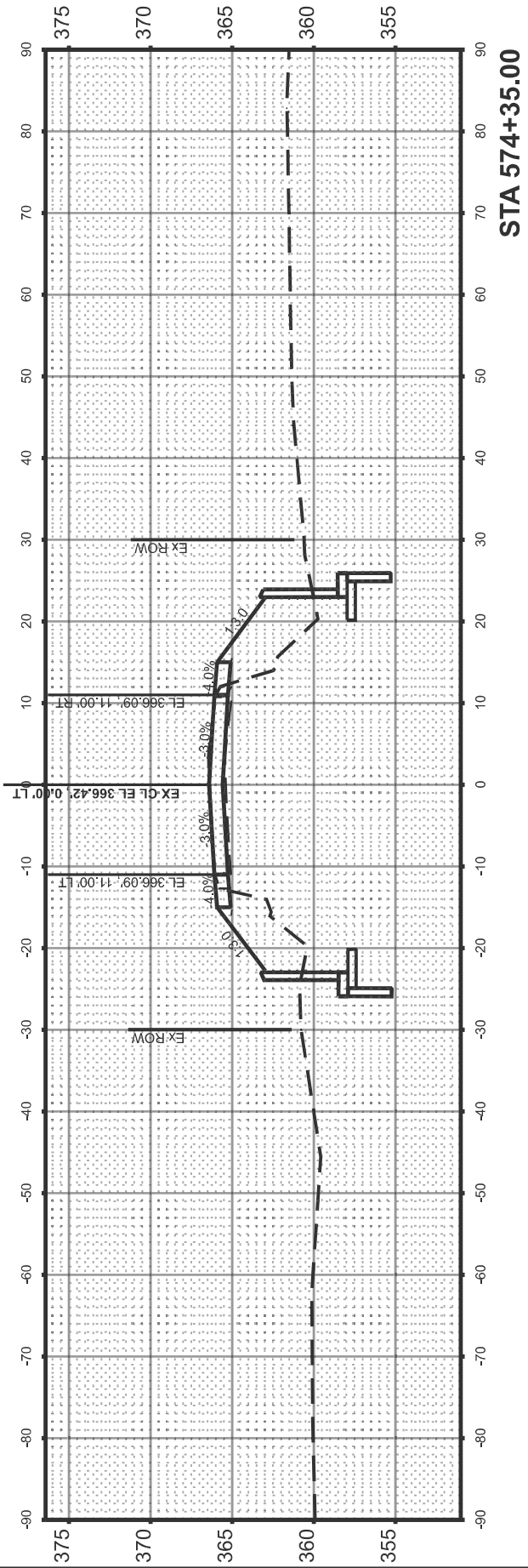
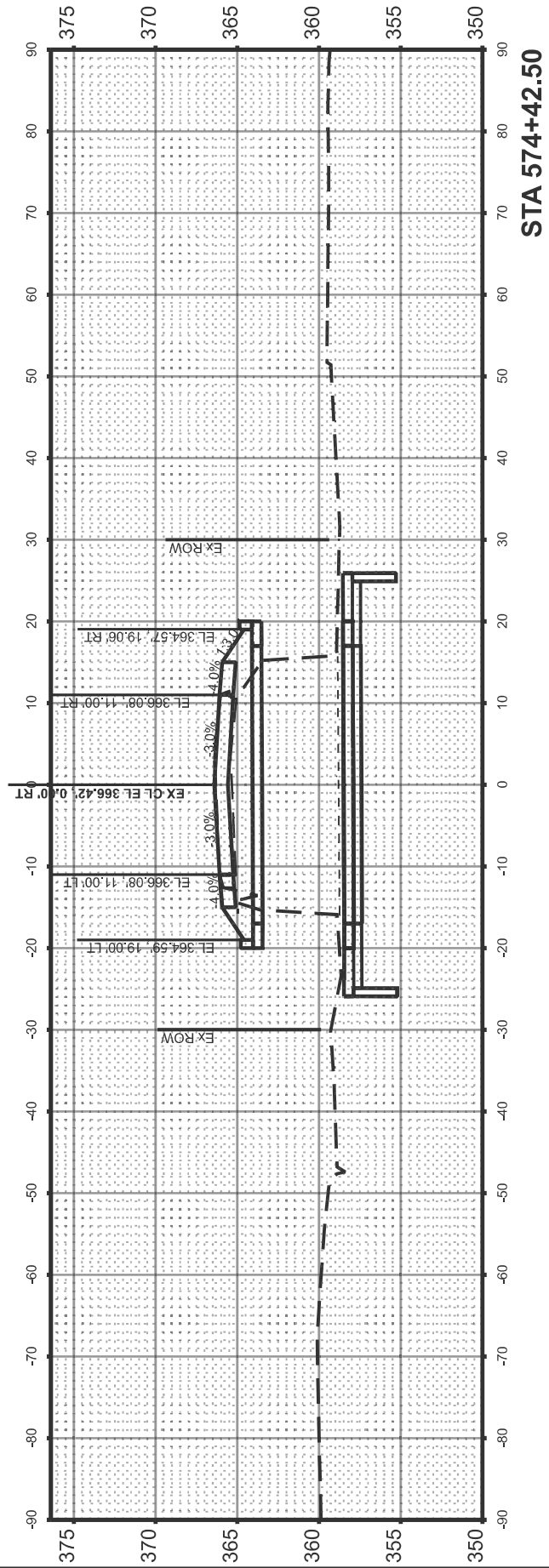
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SN 091-7094 (P)**

SCALE: 1"=10' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	94
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

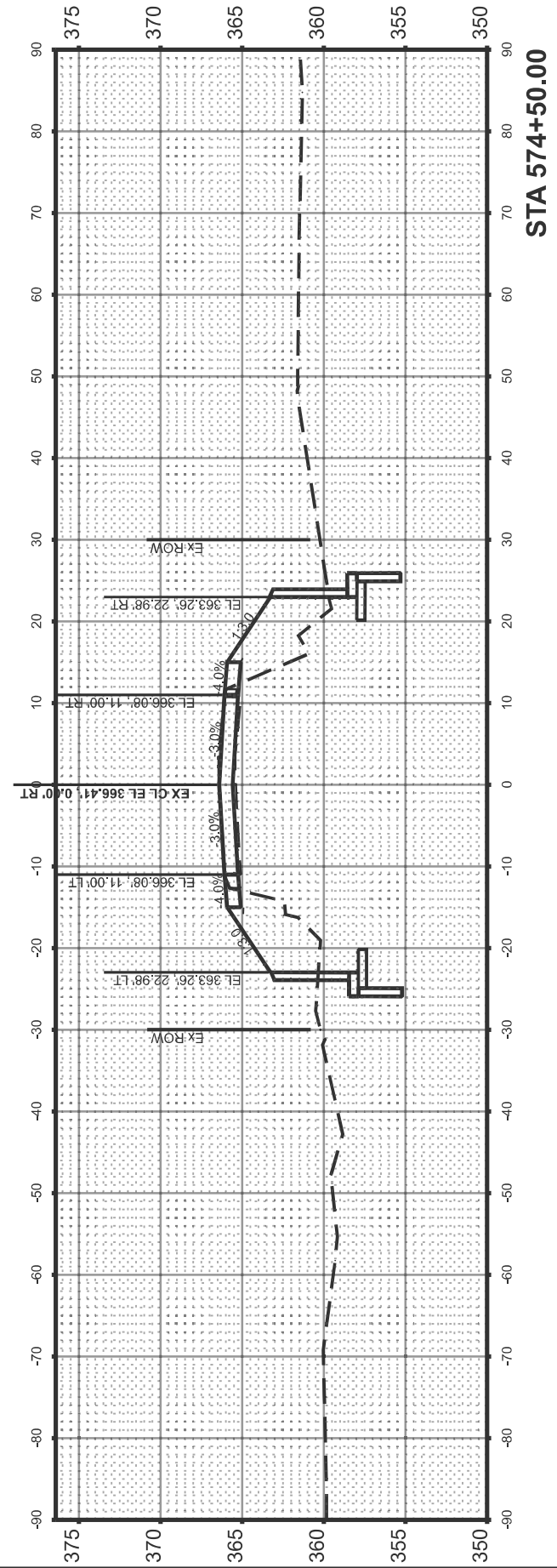
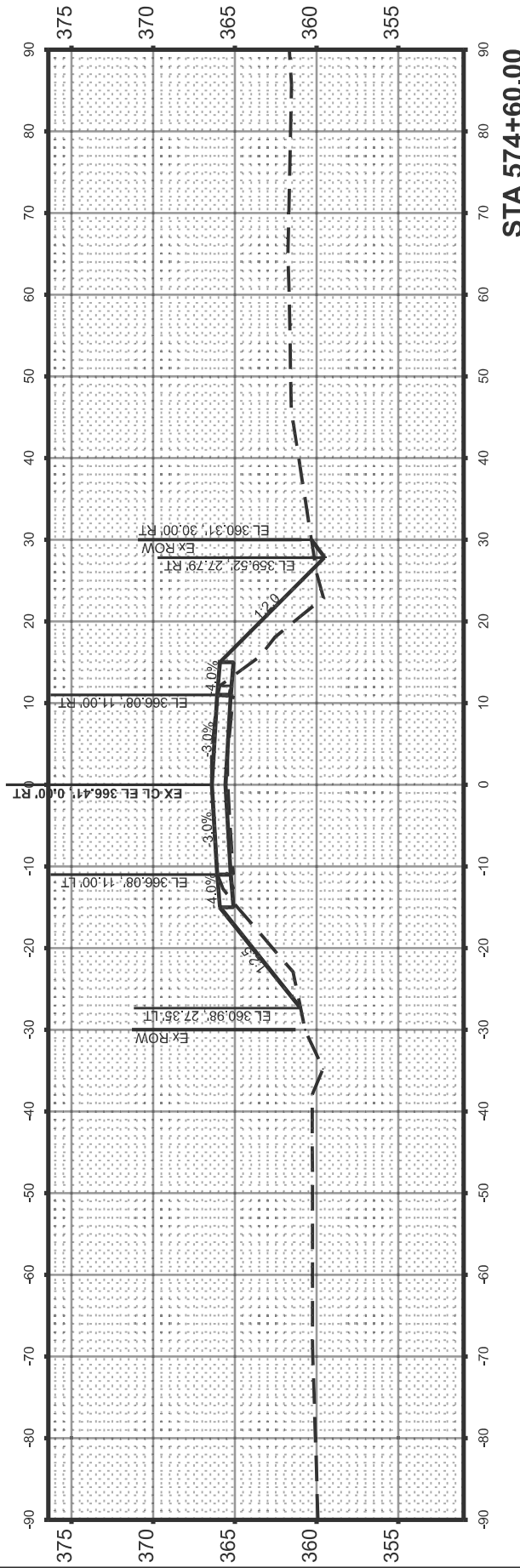
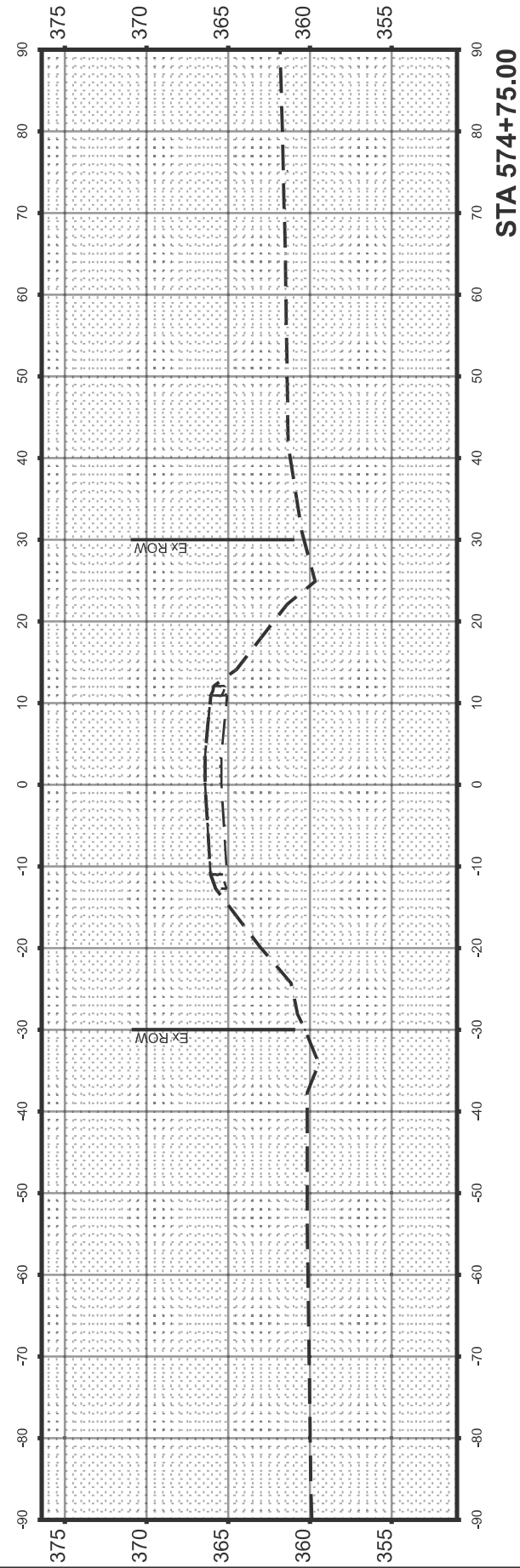
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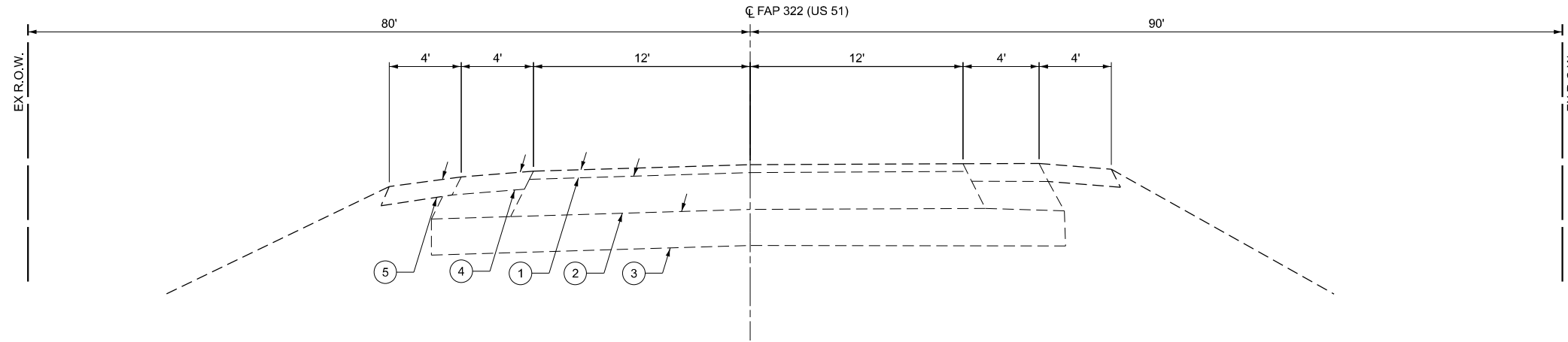
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SN 091-7094 (P)

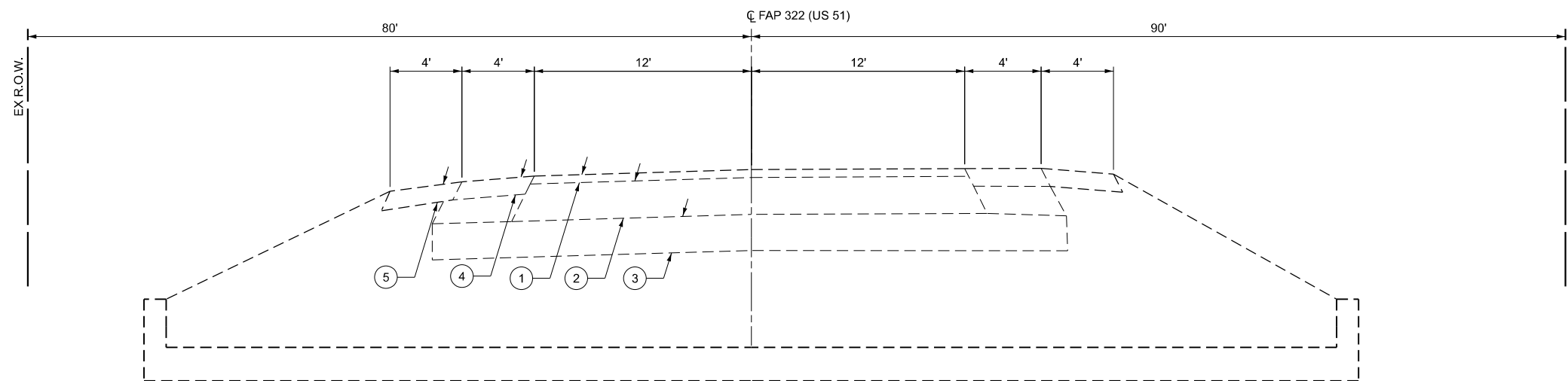
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	95
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



- ① EX HMA SURFACE CSE (1½") & EX HMA BINDER CSE (1¼")
- ② EX HMA BINDER CSE (12¼")
- ③ EX LIME MODIFIED SOIL (12")
- ④ EX HMA SHOULDER (6")
- ⑤ EX AGG SHOULDER (6")



MODEL: Typical Section EX
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BIB091-7027\CADData\CADSheets\0978A13_0917027_sht-TypicalRDWY.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE -	REVISED -

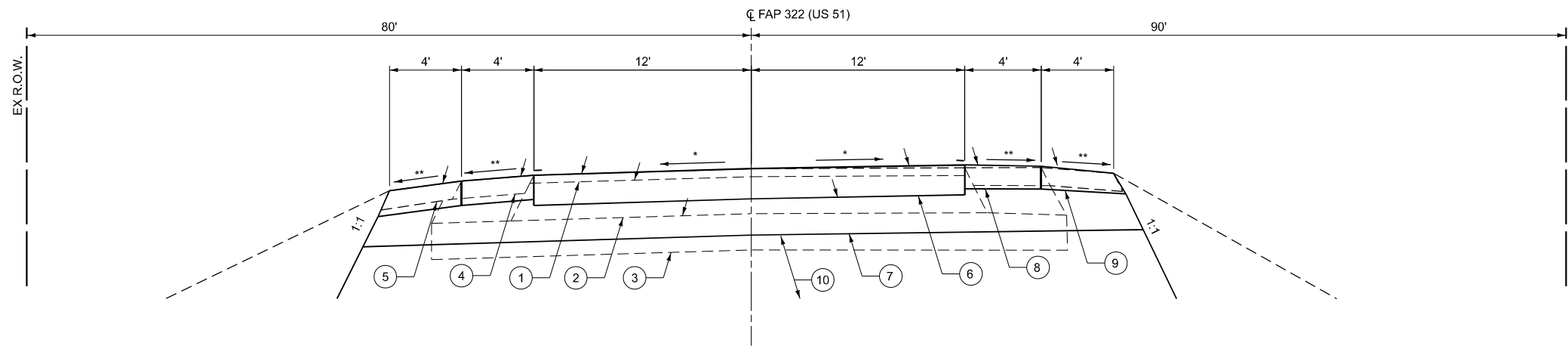
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
SN 091-7095 (P)**

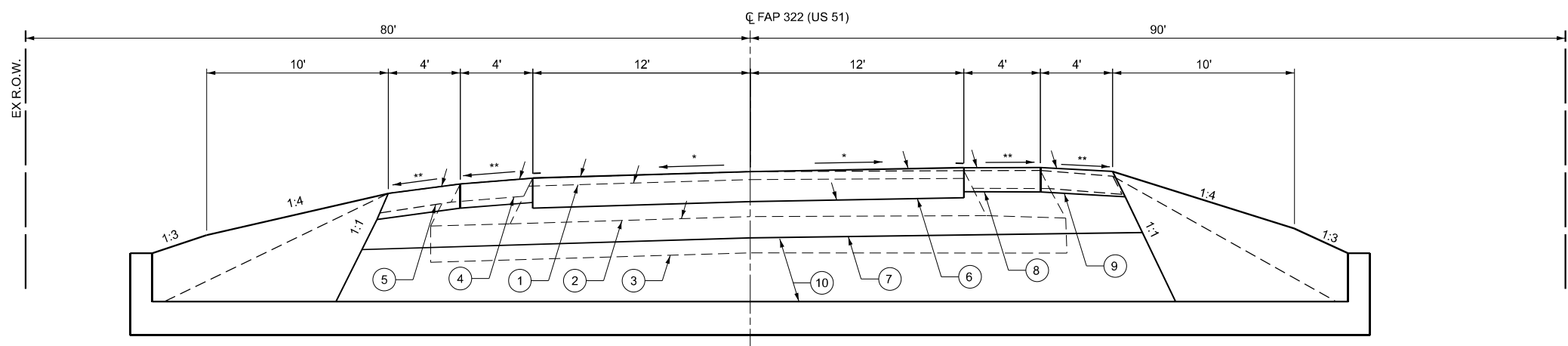
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	96
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)



- ① EX HMA SURFACE CSE (1½") & EX HMA BINDER CSE (1¼")
- ② EX HMA BINDER CSE (12¼")
- ③ EX LIME MODIFIED SOIL (12")
- ④ EX HMA SHOULDER (6")
- ⑤ EX AGG SHOULDER (6")
- ⑥ PR PCC PAVEMENT, 10"
- ⑦ PR POROUS GRAN EMBANKMENT, CA-10 (MIN. 12")
- ⑧ PR PCC SHOULDER (8")
- ⑨ PR AGG SHOULDER (8")
- ⑩ PR POROUS GRANULAR EMBANKMENT, CA-7 OR CA-11 UNDER CA-10



* MATCH EXISTING SUPERELEVATION
 ** MATCH EXISTING SHOULDER SLOPE

MODEL: Typical Section PR
 FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-948 - PE HI\B0917-7027\CAD\Drawings\978A13_0917027_sht-TypicalR0WY.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
 SN 091-7095 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	97
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

MODEL: Schedule Sheet 1
 FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BB\091-7095\ICAD\Drawings\09178A13-0917027-shft-Schedule.dgn

PAVEMENT MARKING SCHEDULE					
LOCATION			NOTES	PAINT PAVEMENT MARKING - LINE 4"	
STATION	TO	STATION		WHITE FOOT	YELLOW FOOT
STRUCTURE NO. 091-7095					
205+05	TO	205+60	CENTERLINE DOUBLE		110
205+05	TO	205+60	RIGHT EDGE LINE	55	
205+05	TO	205+60	LEFT EDGE LINE	55	
SUBTOTAL				110	110
TOTAL				220	

CHANGEABLE MESSAGE SIGN		
LOCATION	COMMENT	CHANGEABLE MESSAGE SIGN
STATION		CAL DA
STRUCTURE NO. 091-7027		
14 Days Prior to Closure	2 Boards	28
4 Days During Closure	2 Boards	8
TOTAL		36

SHOULDER SCHEDULE						
LOCATION				PAVED SHOULDER REMOVAL	AGGREGATE SHOULDERS, TYPE B 8"	PORTLAND CEMENT CONCRETE SHOULDERS 8"
STATION	TO	STATION		SQ YD	SQ YD	SQ YD
STRUCTURE NO. 091-7095						
205+10	RT TO	205+55	RT	20.0	20.0	20.0
205+10	LT TO	205+55	LT	20.0	20.0	20.0
TOTAL				40.0	40.0	40.0

PAVEMENT SCHEDULE						
LOCATION			WELDED WIRE REINFORCEMENT	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PAVEMENT REMOVAL	
STATION	TO	STATION	SQ YD	SQ YD	SQ YD	
STRUCTURE NO. 091-7095						
205+10	TO	205+55	120.0	120.0	120.0	
TOTAL			120.0	120.0	120.0	



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 8/28/25	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES SN 091-7095 (P)			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	98
			CONTRACT NO. 78A13	
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	AVERAGE SHRINKAGE FACTOR	EARTH EXCAVATION (ADJUSTED)	EMBANKMENT	EARTHWORK BALANCE		FURNISHED EXCAVATION
					EXCAVATION REQUIRED TO COMPLETE	EXCESS EXCAVATION	
STATION TO STATION	CU YD	%	CU YD	CU YD	CU YD	CU YD	CU YD
STRUCTURE NO. 091-7095							
	47	25%	35	37	2		2
TOTAL	47						2

SEEDING/EROSION CONTROL SCHEDULE														
LOCATION		AREA	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING	
STATION	TO STATION	SQ FT	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	FOOT	FOOT	POUND	
STRUCTURE NO. 091-7095														
205+00	RT										10			
205+10	LT TO 205+55	720	0.01	0.01	1.0	1.0	1.0	0.02	0.01					2
205+10	RT TO 205+55	720	0.01	0.01	1.0	1.0	1.0	0.02	0.01					2
205+09	RT TO 205+57	1455								44		44		
205+11	LT TO 205+56	945								37		42		
205+71	LT										10			
TOTAL			0.02	0.02	2	2	2	0.04	0.02	81	20	86		4

MODEL: Schedule Sheet 2
FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\B\091-7027\CADData\CADSheets\09178A13-0917027-shit-Schedule.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 8/28/25	REVISED -

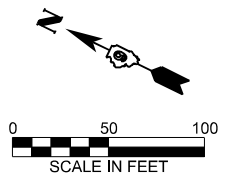
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SN 091-7095 (P)

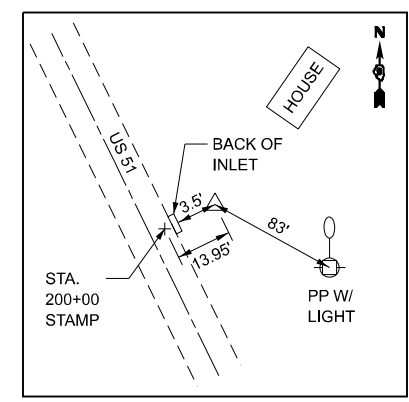
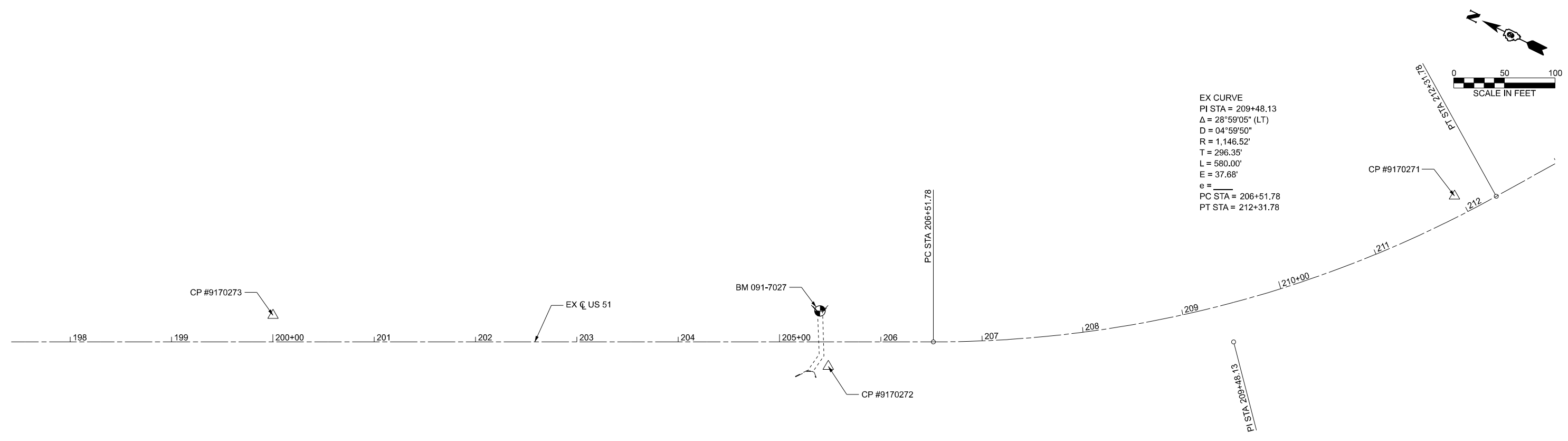
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	99
			CONTRACT NO. 78A13	
			ILLINOIS FED. AID PROJECT	

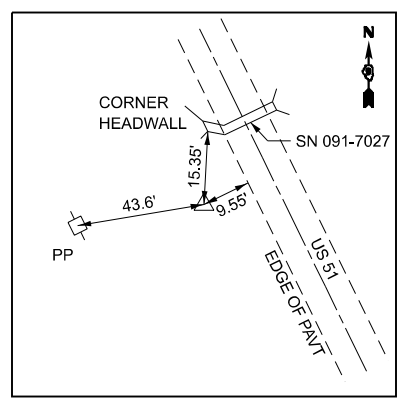
*** (30G,104A)(B-1);(13,14A)(CR-1)



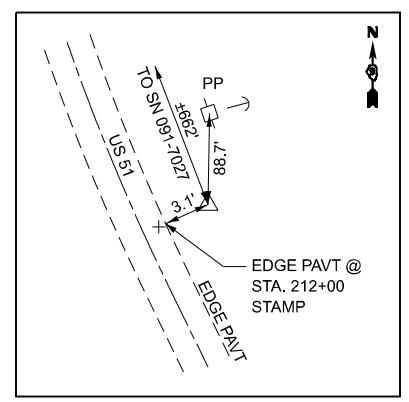
EX CURVE
 PI STA = 209+48.13
 $\Delta = 28^{\circ}59'05''$ (LT)
 D = $04^{\circ}59'50''$
 R = 1,146.52'
 T = 296.35'
 L = 580.00'
 E = 37.68'
 e = _____
 PC STA = 206+51.78
 PT STA = 212+31.78



CONTROL POINT #9170273
 IRON PIPE W/ IDOT CAP
 STA. 200+00.22, 26.22' LT.
 N 274843.854
 E 2577393.758
 ELEV 521.11



CONTROL POINT #9170272
 IRON PIPE W/ IDOT CAP
 STA. 205+48.12, 24.15' RT.
 N 274329.399
 E 2577588.864
 ELEV 490.65



CONTROL POINT #9170271
 IRON PIPE W/ IDOT CAP
 STA. 211+95.18, 19.61' LT.
 N 273847.755
 E 2578010.942
 ELEV 480.31

BENCHMARKS

BM 091-7027
 "□" CUT ON CENTER OF EAST HEADWALL
 ELEV. 489.33

MODEL: ATB Sheet
 FILE NAME: I:\2023\23044 IDOT D9 - PTB 207-948 - PE HI\BIB\091-7027\CAD\Drawings\978A13-0917027-sh1-ATB.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 7/25/25	REVISED -

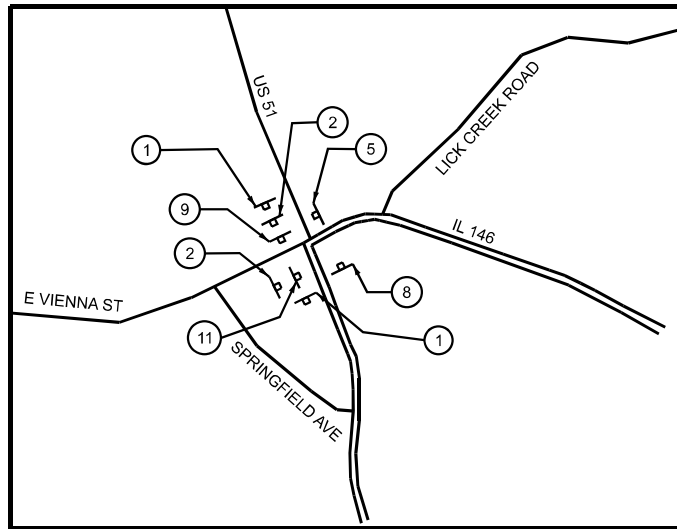
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS
 SN 091-7095 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	100
			CONTRACT NO. 78A13	
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

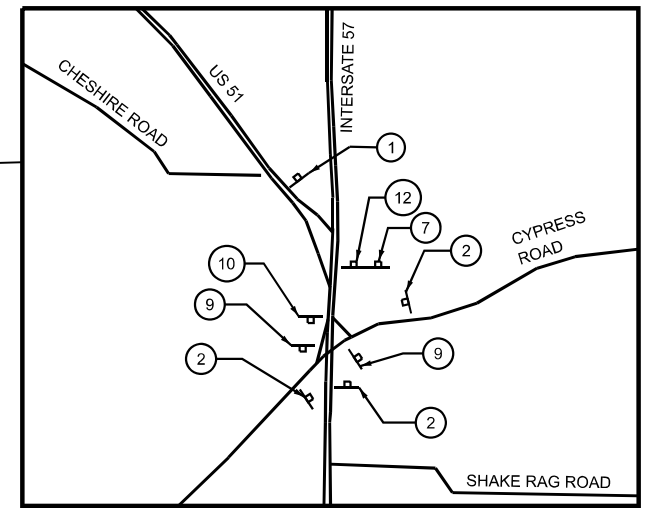
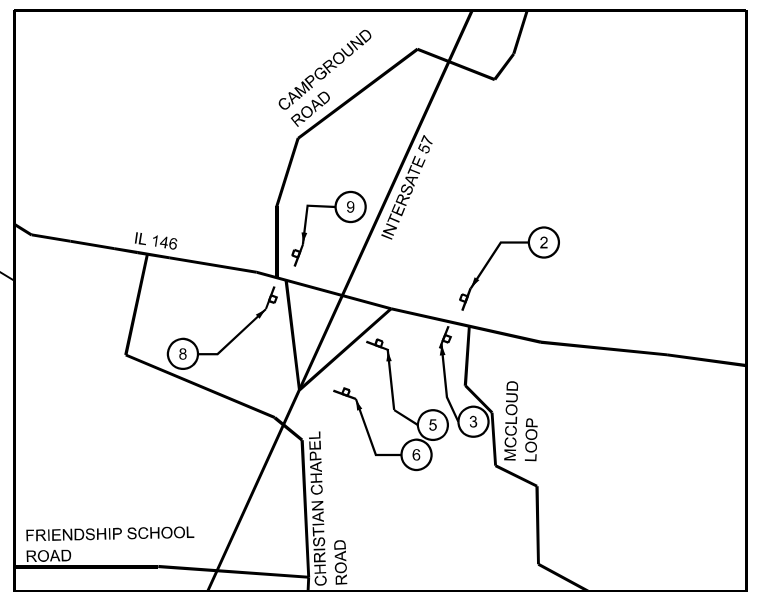
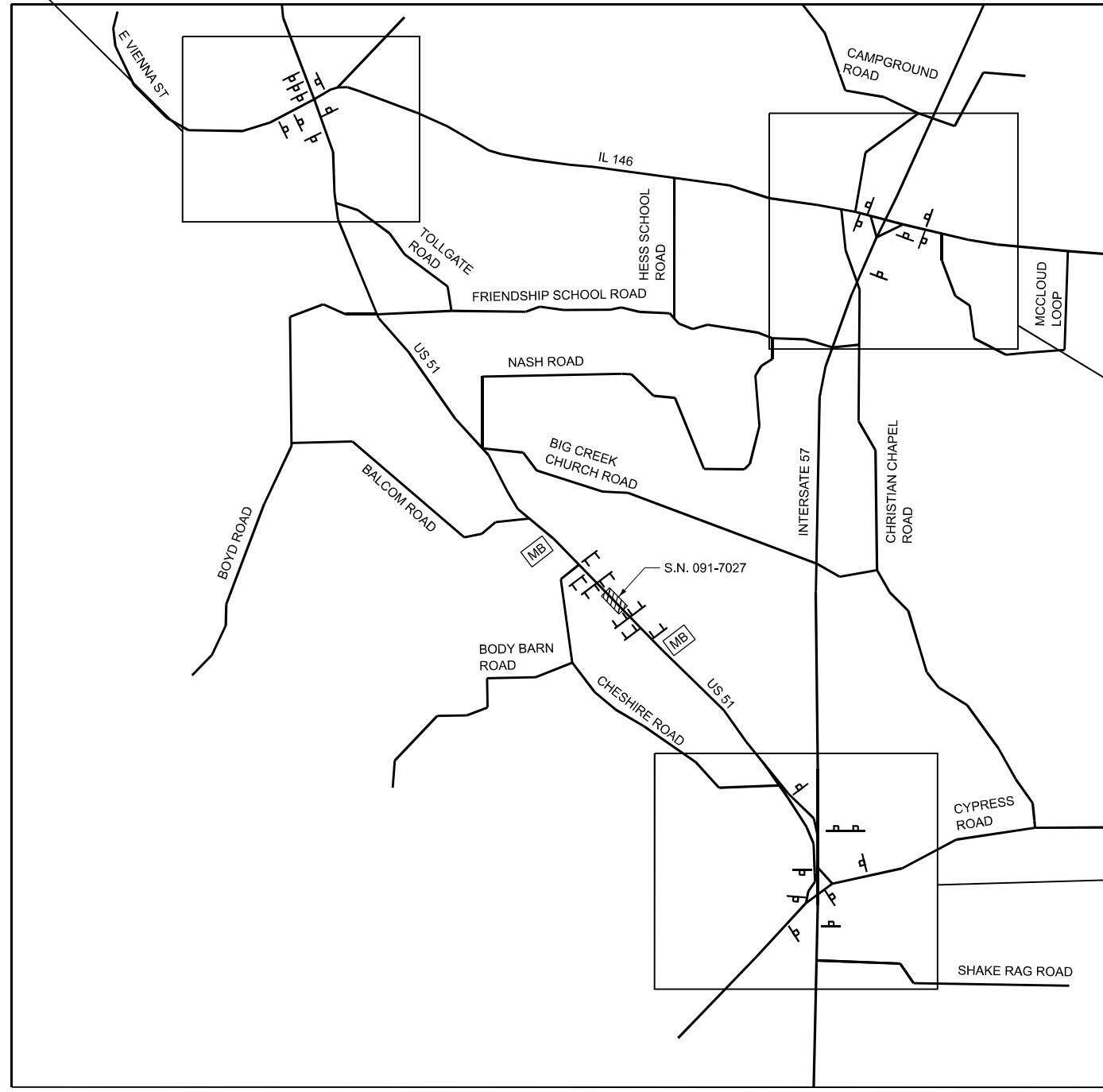


NOTES:

1. THE CONTRACTOR HAS THE OPTION OF USING METAL POSTS INSTEAD OF WOOD.
2. ALL SIGNS SHALL BE BLACK ON ORANGE. THE POSTS SHALL BE PLACED 12 FEET FROM THE EDGE OF PAVEMENT AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS AND HARDWARE REQUIRED TO INSTALL THE DETOUR ROUTE SIGNING SHALL BE INCLUDED IN COST OF DETOUR SIGNING.
4. SIGNS SHALL BE REMOVED ON COMPLETION OF THE CONTRACT AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 724. THIS WORK WILL NOT BE PAID FOR. THE SIGNS AND POSTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
5. THE RELOCATING, MAINTENANCE OR REPLACEMENT OF SIGNS SHALL BE INCLUDED IN THE COST OF DETOUR SIGNING.
6. EXACT SIGN PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
7. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR.
8. THE DISTRICT 9 OPERATIONS ENGINEER SHALL CONTACTED 10 DAYS PRIOR TO THE ERECTION OF SIGNS.
9. TYPE III BARRICADES WITH ROAD CLOSED SIGNS AS SHOWN ON HWY STD 701901 SHALL BE ERECTED AT EACH END OF THE WORK SITE DURING ROAD CLOSURE.

LEGEND

- ① ROAD CLOSED AHEAD
- ② DETOUR AHEAD
- ③ END DETOUR
- ④ RIGHT TURN NORTH US 51 DETOUR
- ⑤ LEFT TURN NORTH US 51 DETOUR
- ⑥ RIGHT MERGE NORTH US 51 DETOUR
- ⑦ STRAIGHT NORTH US 51 DETOUR
- ⑧ RIGHT TURN SOUTH US 51 DETOUR
- ⑨ LEFT TURN SOUTH US 51 DETOUR
- ⑩ RIGHT MERGE SOUTH US 51 DETOUR
- ⑪ STRAIGHT SOUTH US 51 DETOUR
- ⑫ LEFT MERGE SOUTH US 51 DETOUR
- MB CHANGEABLE MESSAGE SIGN



MODEL: Default
FILE NAME: P:\2024\11\24\02_PTB_2024-048_D9_PH_HI_K&T\CADD\CADD_Sheets\0978A13-shi-ctg-jng-3.dgn



USER NAME = lharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

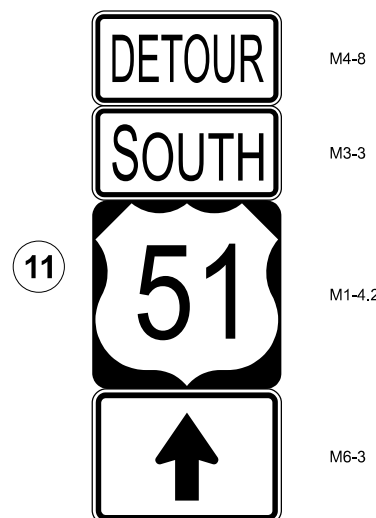
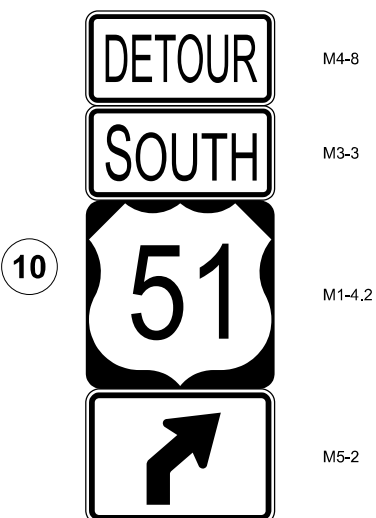
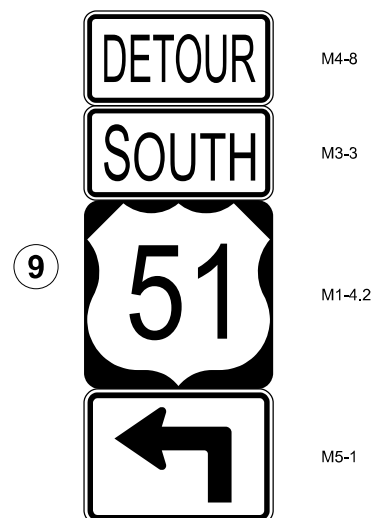
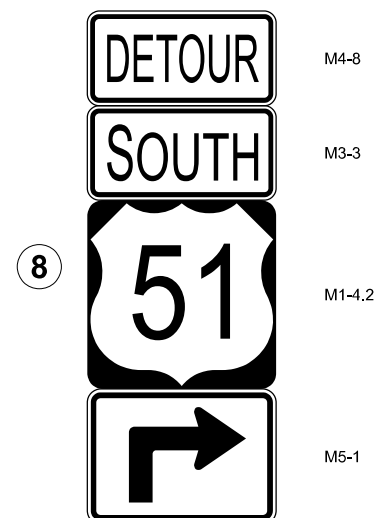
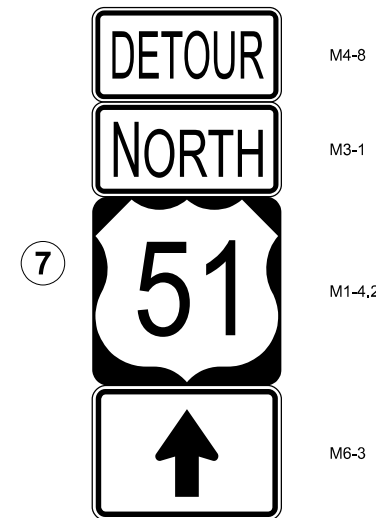
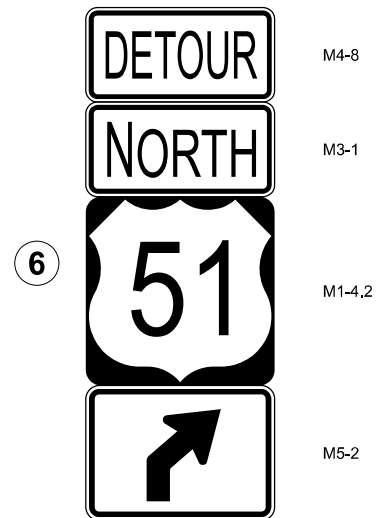
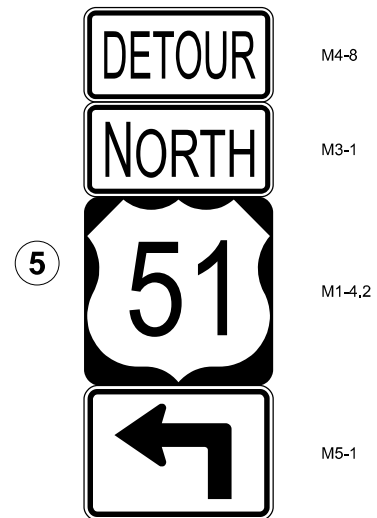
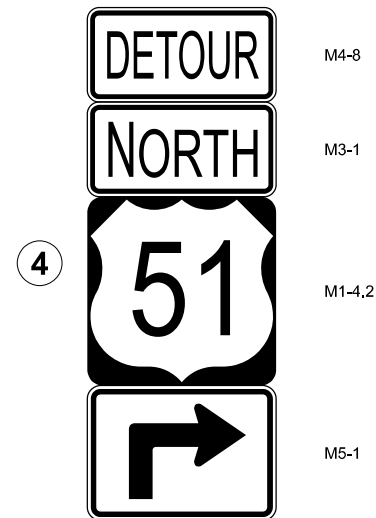
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE
S.N. 091-7095 (P)**

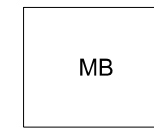
SCALE: 1"=1' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	102
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

▲*(30G, 104A)(B-1);(13,14A)(CR-1)



MESSAGE BOARDS



2 REQUIRED
(NOTIFICATION- 2 WEEKS PRIOR
TO START OF WORK AND DURATION
OF THE CLOSURE)

PRIOR TO
CLOSURE

DURING
CLOSURE

US 51 WILL BE CLOSED
XX MILES AHEAD
DATE TO DATE

US 51 CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

MODEL: Default
FILE NAME: P:\2024\ME24002_PTB 2024-048_D9 PH ILL K&T\CADD\CADD_Sheets\0978A13-shi-staging1.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - MLA	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

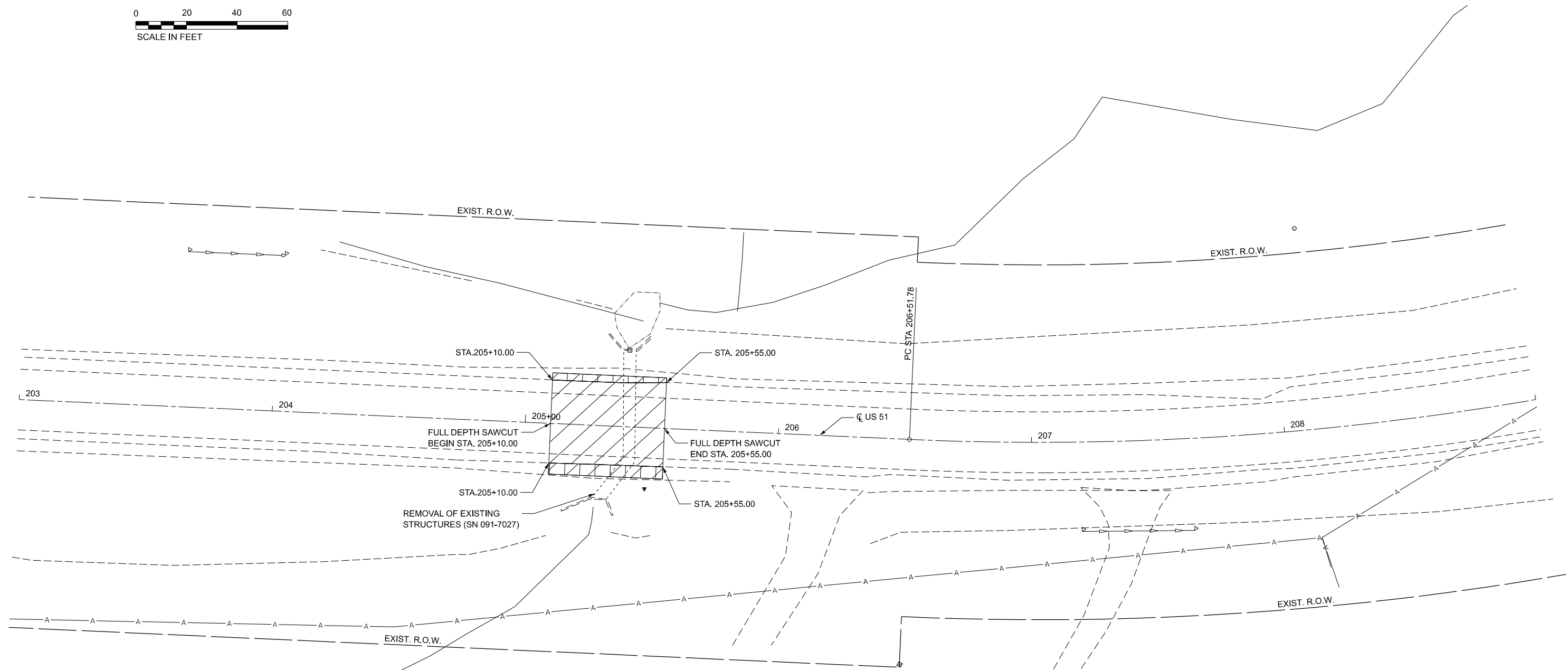
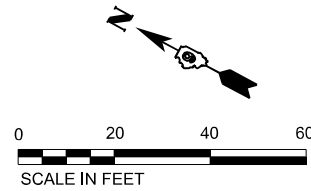
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR ROUTE SIGN DETAILS
S.N. 091-7095 (P)



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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	103
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G, 104A)(B-1);(13,14A)(CR-1)



LEGEND

-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL

MODEL: Removal (Sheet)
FILE NAME: P:\2024\ME24002_PTB_207-448.D9 PH LH_K&T\CADD\CADD_Sheets\091-7095\PCADD\DATA\CAD_sheets\091-7095-Removal.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

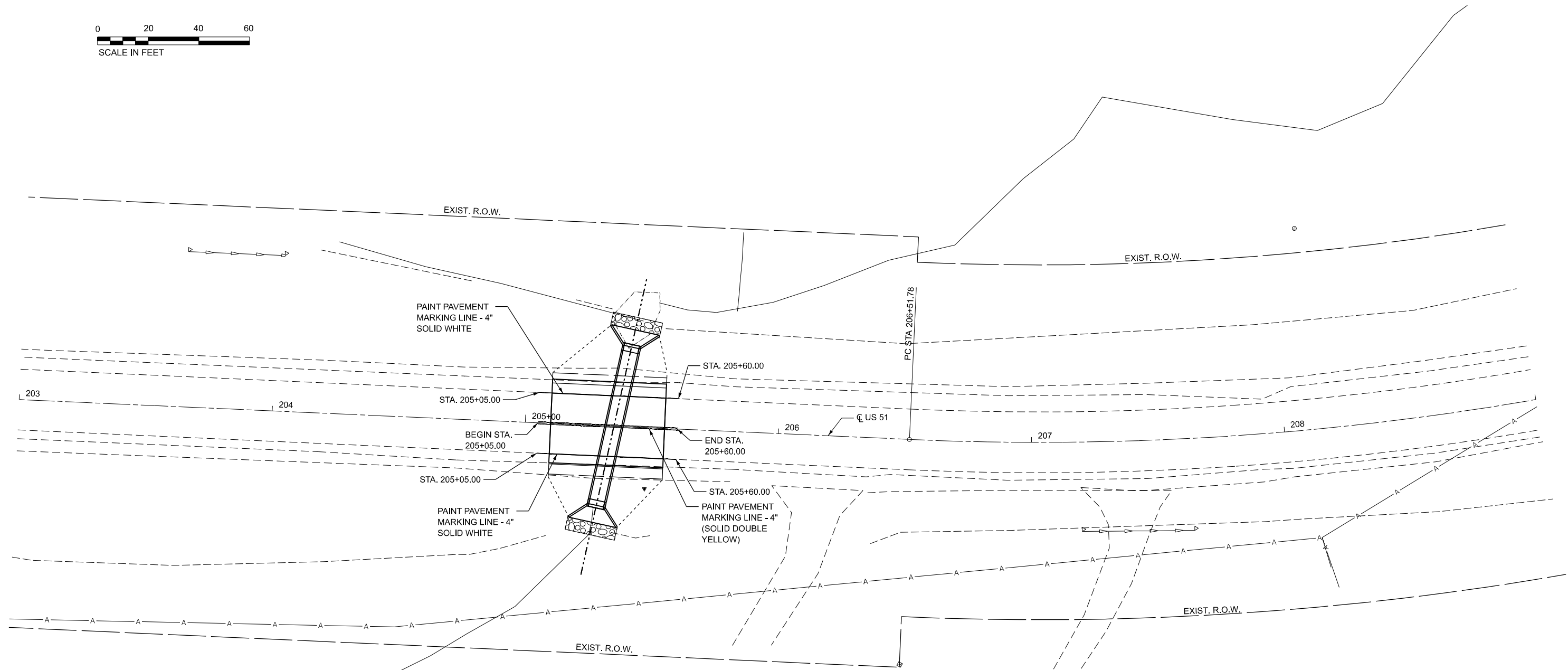
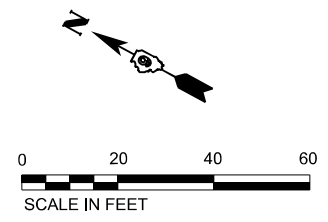
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
SN 091-7095 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 203+00.00 TO STA. 209+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	104
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• *** (30G, 104A)(B-1); (13, 14A)(CR-1)



MODEL: Pavt markings [Sheet]
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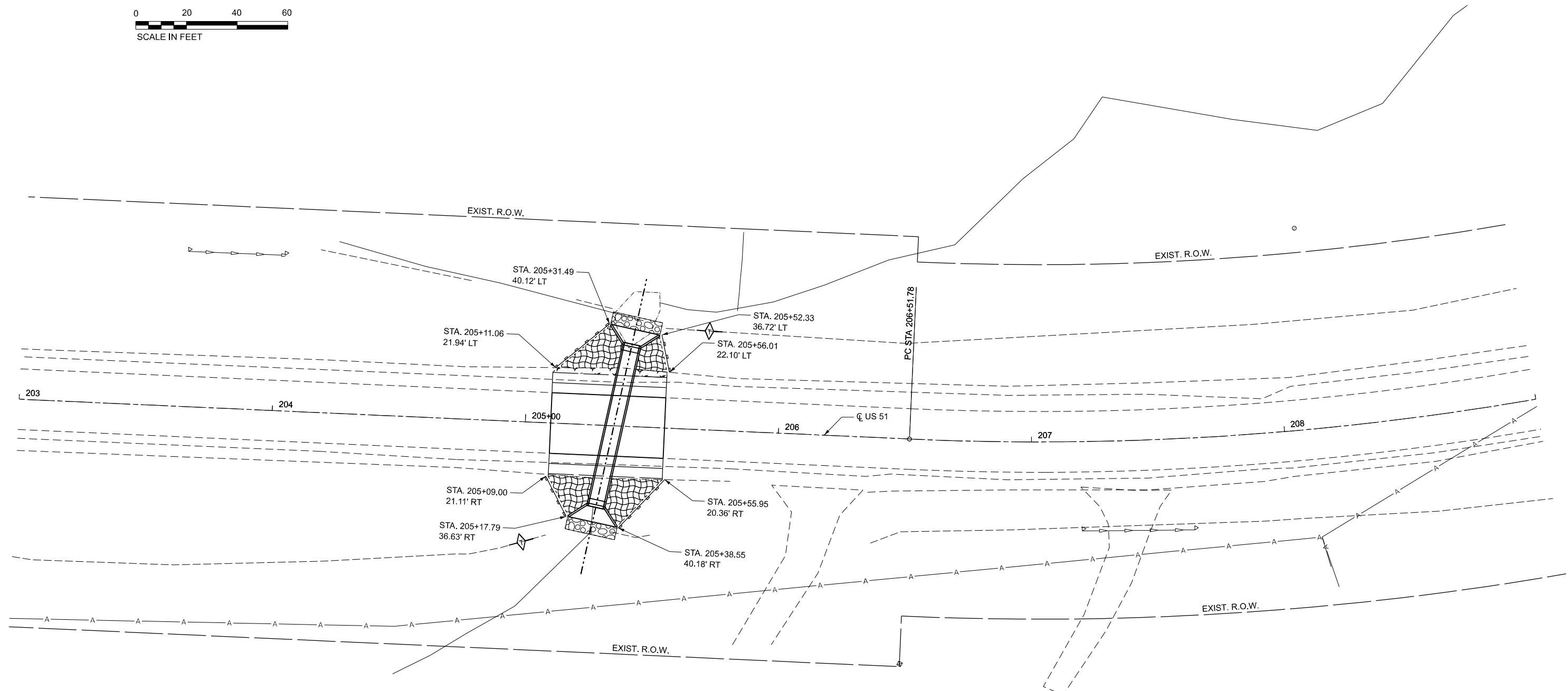
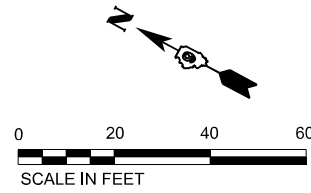
USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN			
SN 091-7095 (P)			
SCALE: 1"=20'	SHEET 1	OF 1 SHEETS	STA. 203+00.00 TO STA. 209+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	105
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• *** (30G, 104A)(B-1); (13, 14A)(CR-1)



LEGEND

	EROSION CONTROL BLANKET
	MULCH METHOD 2
	CONSTRUCTION LIMITS
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER

MODEL: Ero Control (Sheet)
 FILE NAME: P:\2024\ME2402_PTB_207-448.D9 PH LH_K&T\CADD\CADD_Sheets\091-7095\PCADD\CAD_Sheets\091-7095-ERO_Control.dgn



USER NAME = Iharrell	DESIGNED - MJR	REVISED -
	DRAWN - LH	REVISED -
	CHECKED - ERO	REVISED -
PLOT DATE = 3/17/2026	DATE - 3/17/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

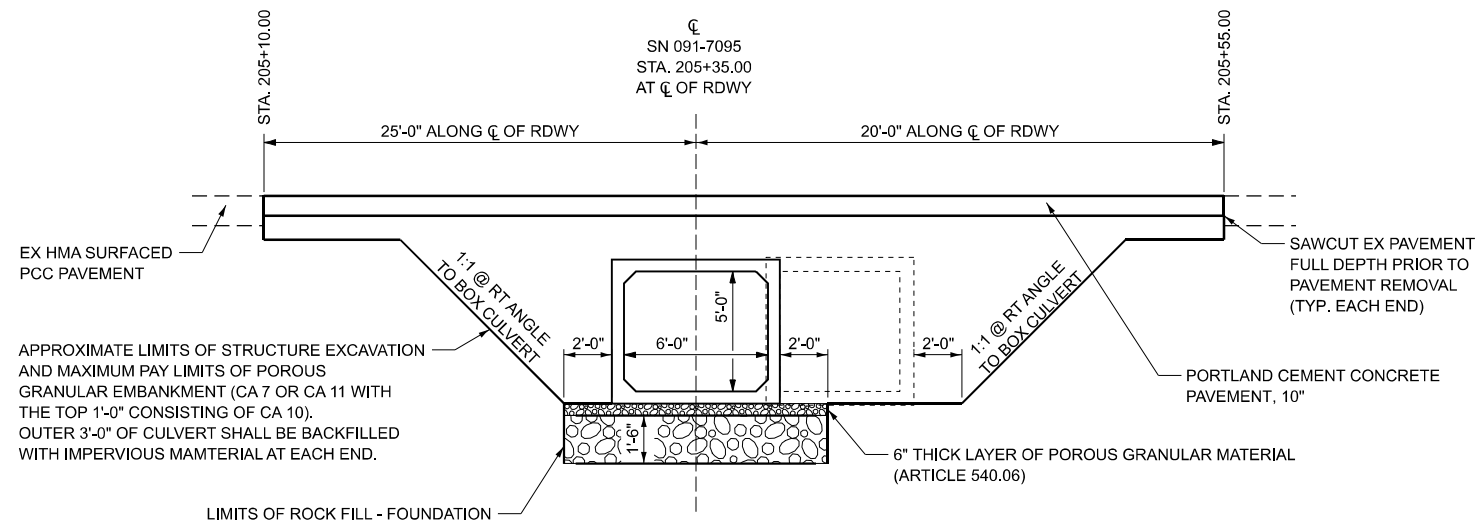
**EROSION CONTROL PLAN
SN 091-7095 (P)**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 203+00.00 TO STA. 209+00.00

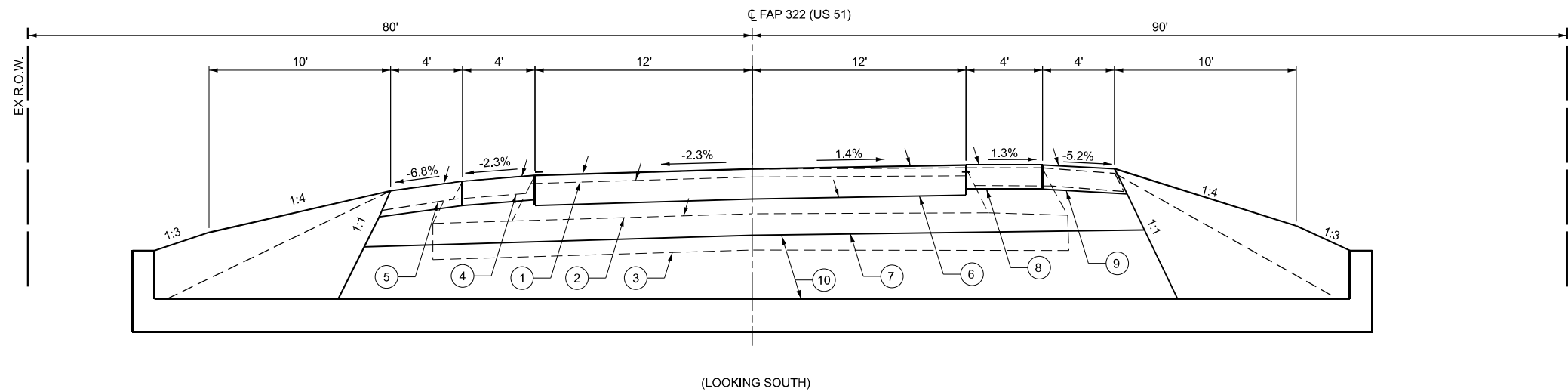
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	106
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

• (30G, 104A)(B-1);(13,14A)(CR-1)

LIMITS OF POROUS GRANULAR EMBANKMENT



SECTION WITHIN PAVEMENT REMOVAL



- ① EX HMA SURFACE CSE (1 1/2") & EX HMA BINDER CSE (1 1/4")
- ② EX HMA BINDER CSE (1 1/4")
- ③ EX LIME MODIFIED SOIL (12")
- ④ EX HMA SHOULDER (6")
- ⑤ EX AGG SHOULDER (6")
- ⑥ PR PCC PAVEMENT, 10"
- ⑦ PR POROUS GRAN EMBANKMENT, CA-10 (MIN. 12")
- ⑧ PR PCC SHOULDER (8")
- ⑨ PR AGG SHOULDER (8")
- ⑩ PR POROUS GRANULAR EMBANKMENT, CA-7 OR CA-11 UNDER CA-10

MODEL: Typical Section (Sheet) FILE NAME: I:\2023\23044 [DOT] D9 - PTB 207-948 - PE HI\B\091-7027\CAD\Drawings\978A13_0917027_sht-Typical.dgn



USER NAME = Ismalley	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/23/2026	DATE - 1/25/26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GRANULAR CULVERT BACKFILL DETAILS
SN 091-7095 (P)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	107
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

Benchmark: Chiseled "□" on the center of East HDWL of existing culvert. Elev. 489.33.

Existing Structure: The existing structure SN 091-7027 is a 64 feet long, 5' x 5' concrete box culvert with wing walls to be removed.

The road will be closed during construction.

INDEX OF SHEETS

1. General Plan and Elevation
- 2.-3. Precast Concrete Box Culvert Apron End Section Details

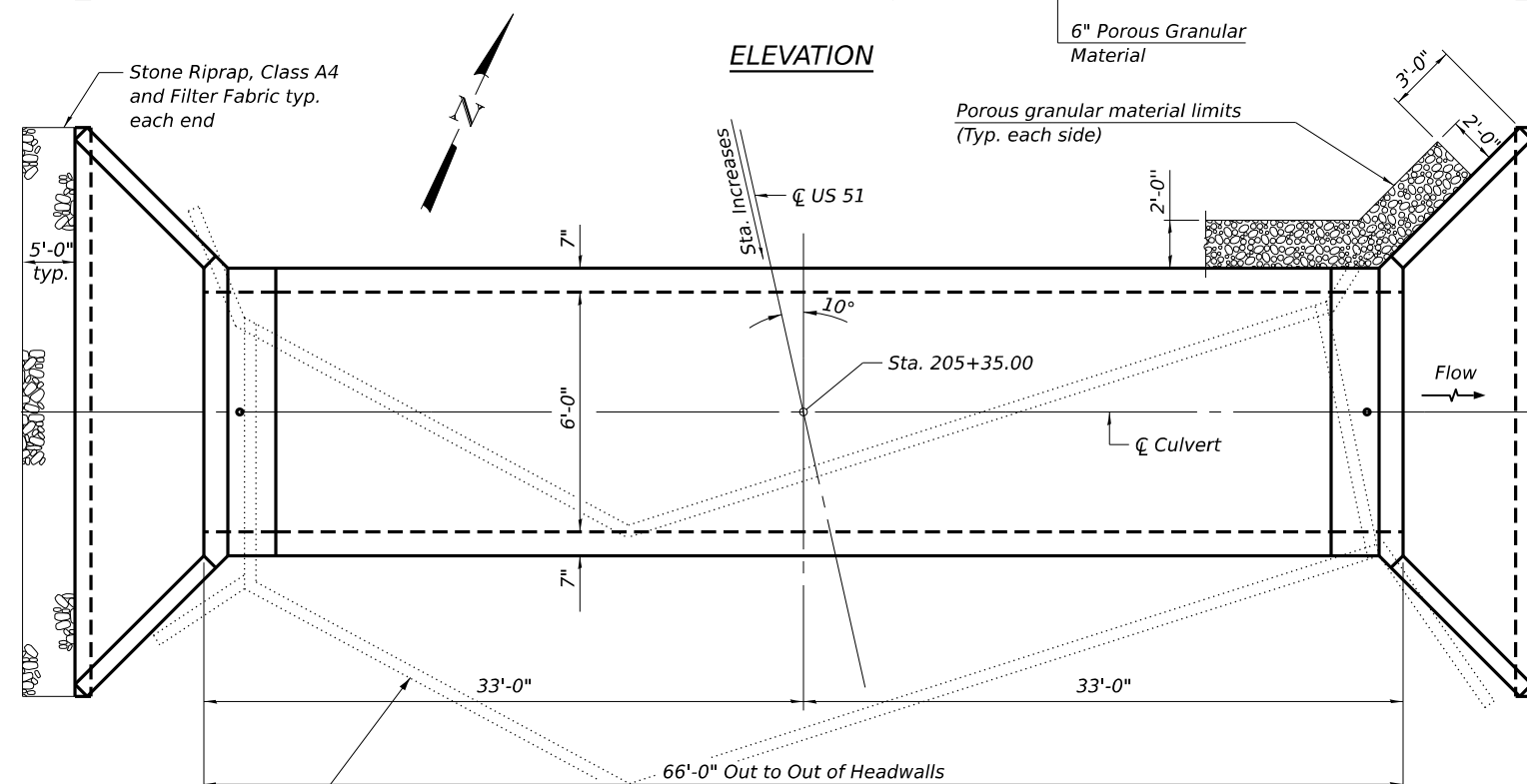
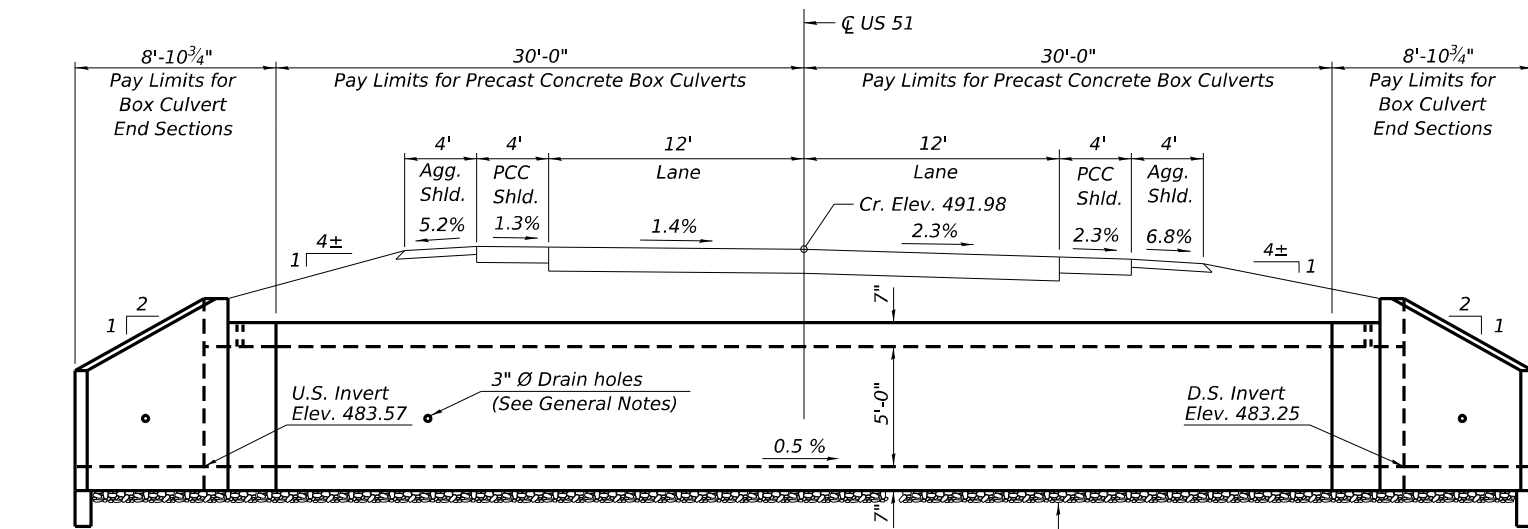
GENERAL NOTES

The design fill height for this box is 3 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required. The Contractor shall halt the excavation at the bottom of the 6" porous granular material under the culvert and request a soils test from IDOT District 9. The limits and quantities shown for removal and replacement of soil below the culvert shall then be evaluated and modified accordingly by the District Geotechnical Engineer.

Geocomposite Wall Drain shall be according to Section 591 except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



WATERWAY INFORMATION

Drainage Area = 0.2 sq. mi. Low Grade Elev. = 490.0 @ Sta. 206+09.00

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	50	573	25	30	487.9	2.1	2.0	489.2	489.1
Base	100	683	25	30	488.3	1.6	1.5	489.9	489.8
Max. Calc.	500	998	25	30	489.1	1.4	1.3	490.5	490.4

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

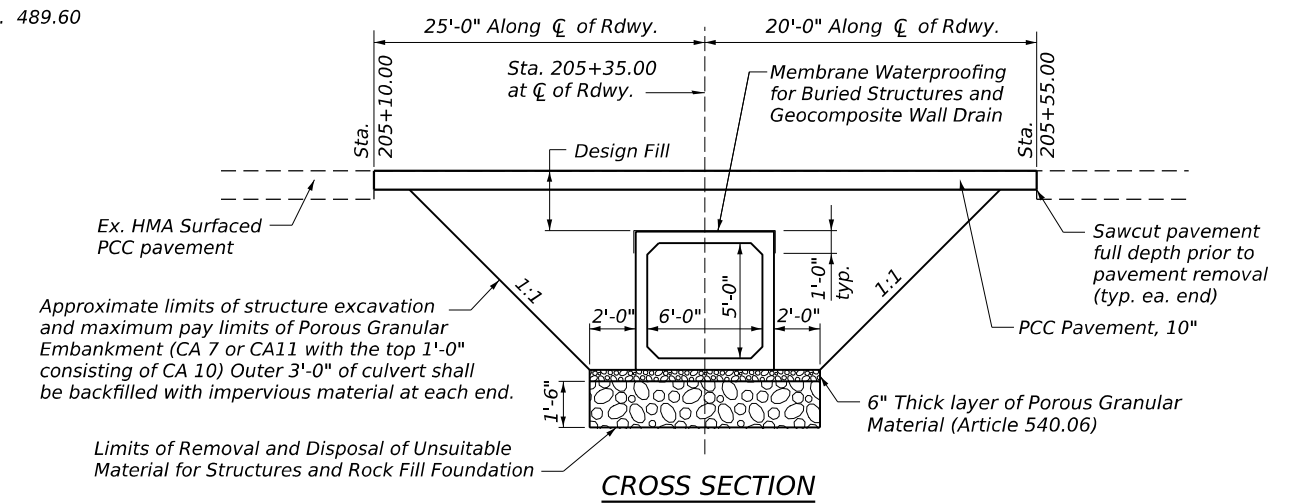
LOADING HL-93

DESIGN STRESSES

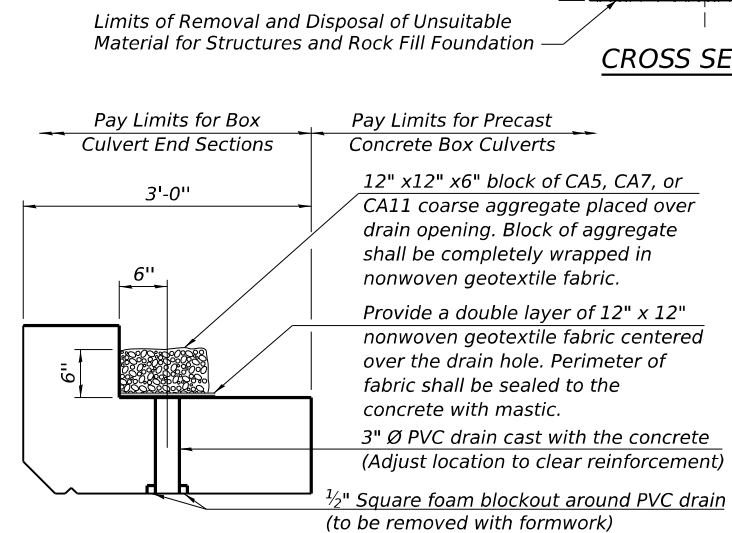
PRECAST UNITS

f_c = 5,000 psi
f_y = 65,000 psi (Welded Wire Reinforcement)

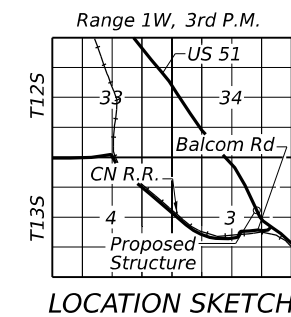
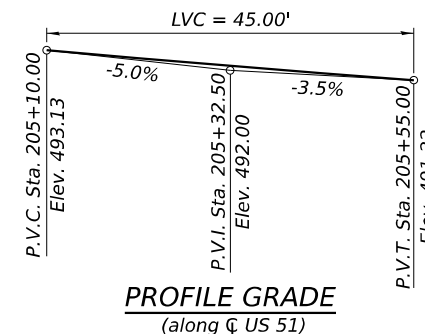
D.H.E. 489.60



Approximate limits of structure excavation and maximum pay limits of Porous Granular Embankment (CA 7 or CA11 with the top 1'-0" consisting of CA 10) Outer 3'-0" of culvert shall be backfilled with impervious material at each end.



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	354
Stone Riprap, Class A4	Sq. Yd.	23
Filter Fabric	Sq. Yd.	23
Removal of Existing Structures No. 4	Each	1
Structure Excavation	Cu. Yd.	365
Removal and Disposal of Unsuitable Materials for Structures	Cu. Yd.	53
Box Culvert End Sections, Culvert No. 4	Each	2
Precast Concrete Box Culverts, 6' x 5'	Foot	60
Geocomposite Wall Drain	Sq. Yd.	67
Membrane Waterproofing System for Buried Structures	Sq. Yd.	67
Rock Fill-Foundation	Ton	80

GENERAL PLAN AND ELEVATION
US 51 OVER UNNAMED TRIBUTARY
F.A.P. RTE. 322 SEC. 13CR-1
UNION COUNTY
STATION 205+35.00
S.N. 091-7095

MODEL: GPE (Sheet) FILE NAME: P:\6XXXX\22x-63XX\6280--PTB 207-48_D9 Bridge Bundle_Kuhn & Treloar\CADD Data\Bridges\01-0978A13-0917095-GPE.dgn

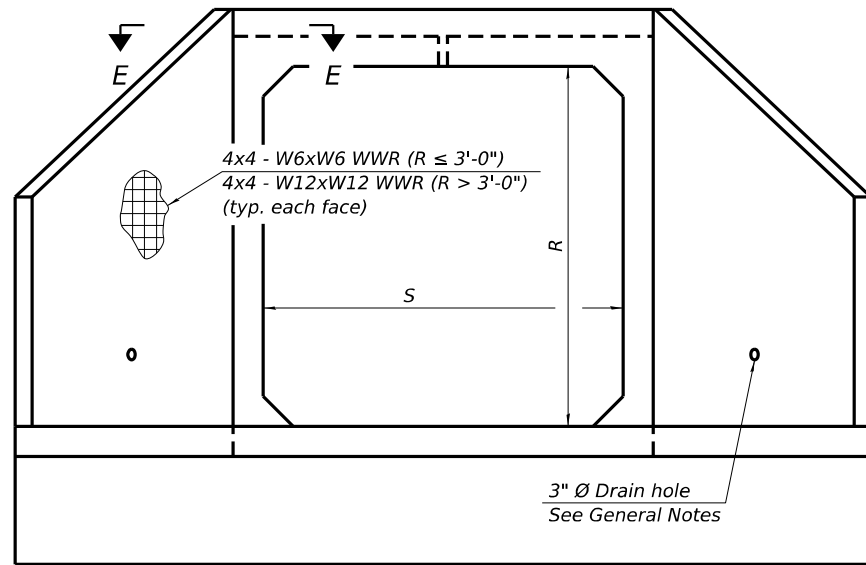


USER NAME = abullock	DESIGNED - T. Ziegler	REVISED -
	DRAWN - A. Bullock	REVISED -
	CHECKED - R. Tiwari	REVISED -
PLOT DATE = 3/11/2026	DATE - 9/15/2025	REVISED -

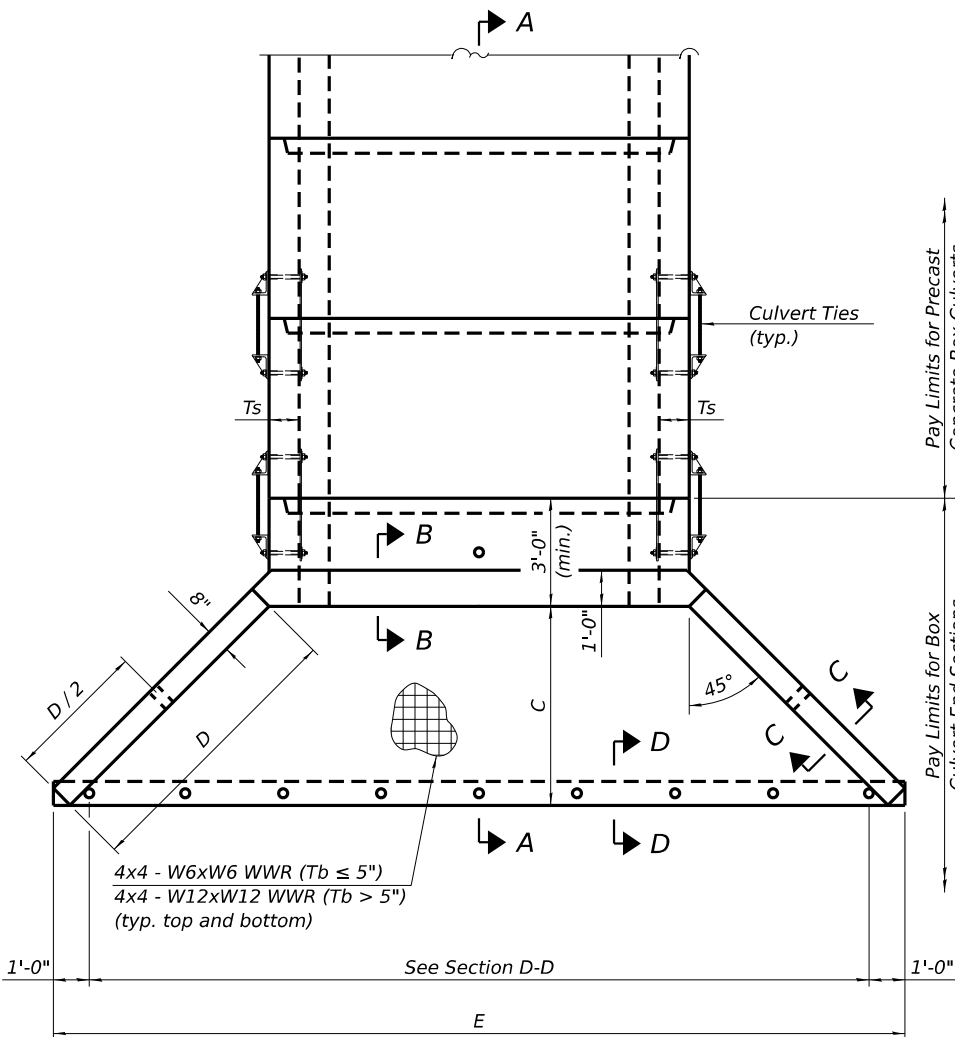
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 3 SHEETS

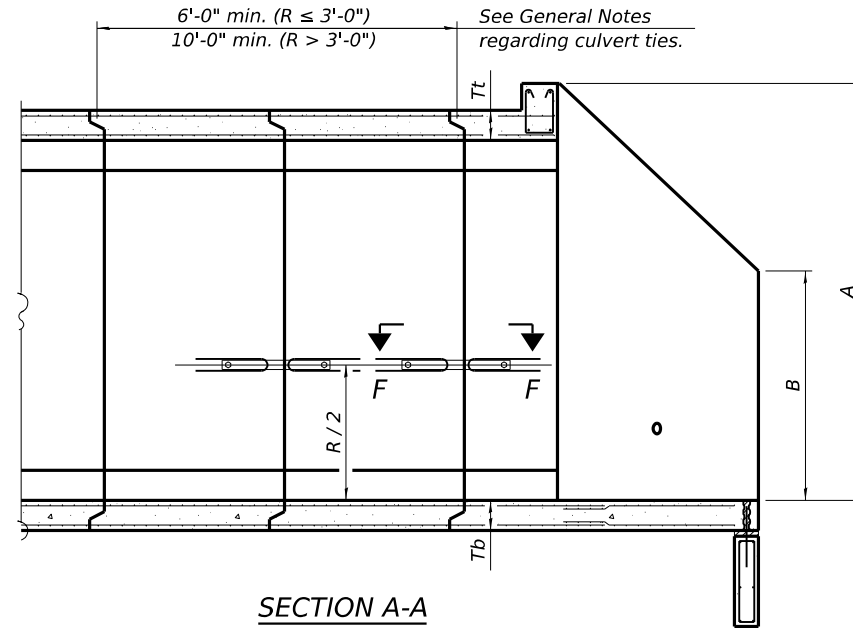
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	13CR-1	UNION	114	108
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	10'-4 ⁵ / ₈ "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 ⁷ / ₈ "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	12'-4 ⁵ / ₈ "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ / ₈ "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 ¹ / ₂ "	2'-2 ¹ / ₂ "	2'-11 ³ / ₈ "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 ¹ / ₂ "	3'-10"	11'-2 ³ / ₈ "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 ¹ / ₂ "	2'-8 ¹ / ₂ "	3'-11 ³ / ₈ "	5'-7"	13'-8 ¹ / ₂ "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ / ₂ "	5'-3"	13'-2 ³ / ₈ "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 ¹ / ₂ "	3'-2 ¹ / ₂ "	4'-11 ³ / ₈ "	7'-0"	15'-8 ¹ / ₂ "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 ³ / ₈ "	6'-8"	15'-2 ¹ / ₂ "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 ¹ / ₄ "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	14'-10 ¹ / ₈ "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 ¹ / ₄ "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	16'-10 ¹ / ₈ "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 ¹ / ₄ "	6'-9"	16'-5 ⁷ / ₈ "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	18'-10 ¹ / ₈ "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 ¹ / ₄ "	8'-2"	18'-5 ⁷ / ₈ "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	13'-10 ⁵ / ₈ "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	16'-0 ¹ / ₈ "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	15'-10 ⁵ / ₈ "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	18'-0 ¹ / ₂ "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 ³ / ₄ "	6'-11"	17'-10 ³ / ₄ "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	20'-0 ¹ / ₈ "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ / ₄ "	8'-4"	19'-10 ³ / ₄ "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	22'-0 ¹ / ₂ "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 ³ / ₄ "	9'-9"	21'-10 ³ / ₄ "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	17'-2 ¹ / ₂ "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	19'-2 ¹ / ₈ "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	21'-2 ¹ / ₈ "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	23'-2 ¹ / ₄ "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	18'-2 ¹ / ₈ "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	20'-2 ¹ / ₈ "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	22'-2 ¹ / ₈ "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	24'-2 ¹ / ₄ "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 ³ / ₄ "	4'-4"	17'-6 ⁷ / ₈ "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 ³ / ₄ "	5'-9"	19'-6 ⁷ / ₈ "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 ³ / ₄ "	7'-2"	21'-6 ⁷ / ₈ "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 ⁷ / ₈ "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 ⁷ / ₈ "	9'-11"	25'-5 ⁵ / ₈ "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 ¹ / ₂ "	4'-5"	18'-10 ¹ / ₄ "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 ¹ / ₂ "	5'-10"	20'-10 ¹ / ₄ "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 ¹ / ₂ "	7'-3"	22'-10 ³ / ₈ "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 ¹ / ₂ "	8'-8"	24'-10 ³ / ₈ "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 ¹ / ₂ "	10'-1"	26'-10 ³ / ₈ "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 ⁷ / ₈ "	4'-7"	20'-3 ¹ / ₈ "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 ⁷ / ₈ "	6'-0"	22'-3 ¹ / ₈ "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 ¹ / ₄ "	7'-4"	24'-1 ³ / ₄ "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 ¹ / ₄ "	8'-9"	26'-1 ³ / ₄ "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 ¹ / ₄ "	10'-2"	28'-1 ⁷ / ₈ "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 ⁵ / ₈ "	4'-8"	21'-6 ¹ / ₂ "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ / ₈ "	6'-1"	23'-6 ¹ / ₂ "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 ⁵ / ₈ "	7'-6"	25'-6 ⁵ / ₈ "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 ⁵ / ₈ "	8'-11"	27'-6 ⁵ / ₈ "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 ⁵ / ₈ "	10'-4"	29'-6 ⁵ / ₈ "	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

MODEL: GPE (Sheet) FILE NAME: P:\6XXXX\22X-63XX\6280 - PTB 207-48_D9 Bridge Bundle_Kuhn & Treloar\CADD Data\Bridges\02-D978A13-0917095-EndSection_1.dgn

SCB-AES

5-15-2023



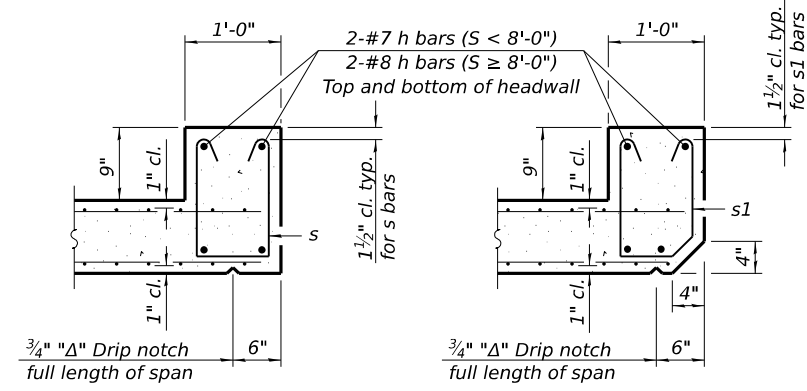
USER NAME	= abullock	DESIGNED	- T. Ziegler	REVISED	-
		DRAWN	- A. Bullock	REVISED	-
		CHECKED	- R. Tiwari	REVISED	-
PLOT DATE	= 2/19/2026	DATE	= 9/15/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 091-7095

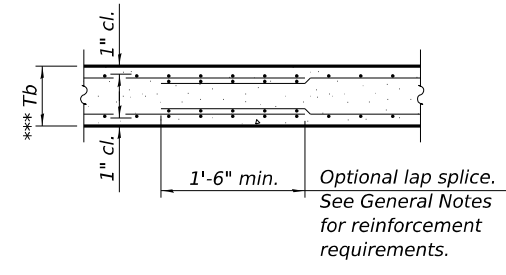
SHEET 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	13CR-1		114	109
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

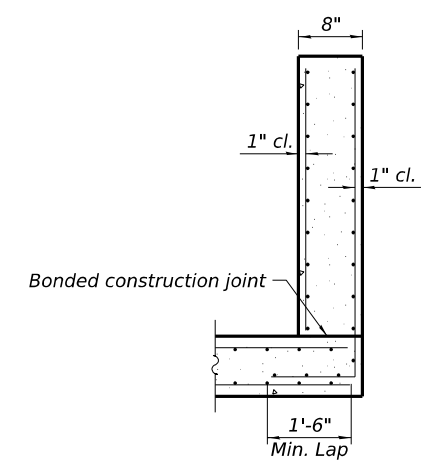


SECTION B-B
(Top slab at downstream end)

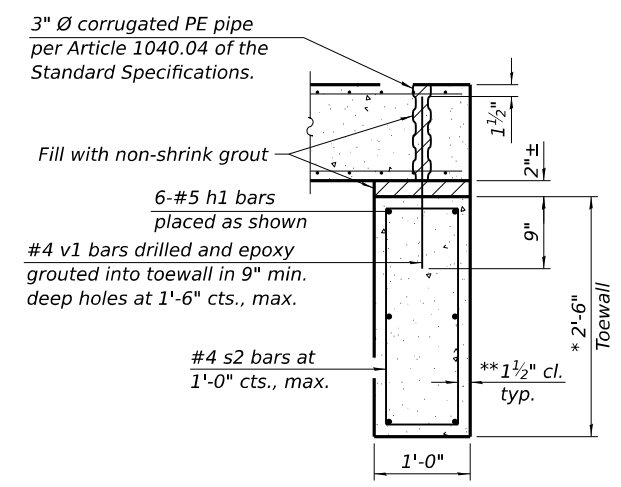
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

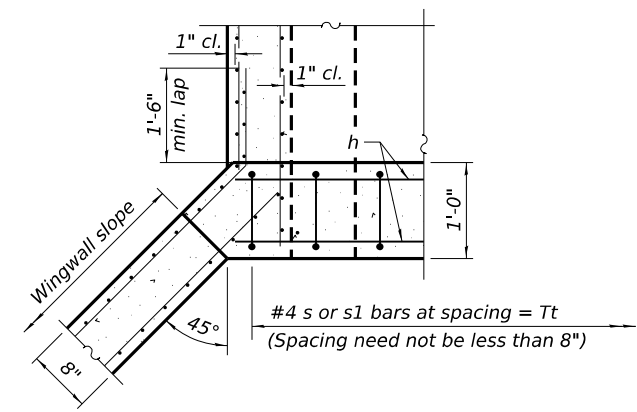


SECTION C-C

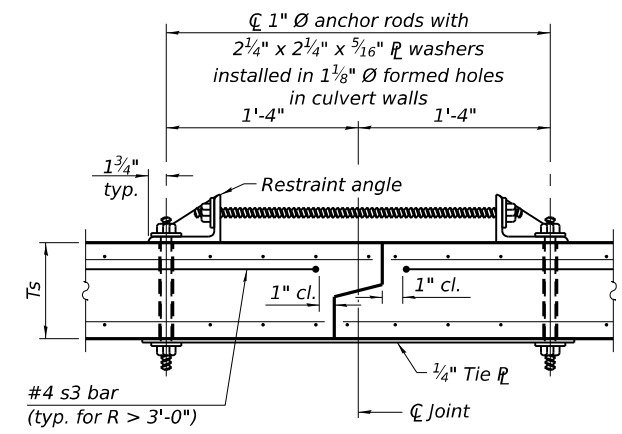


SECTION D-D

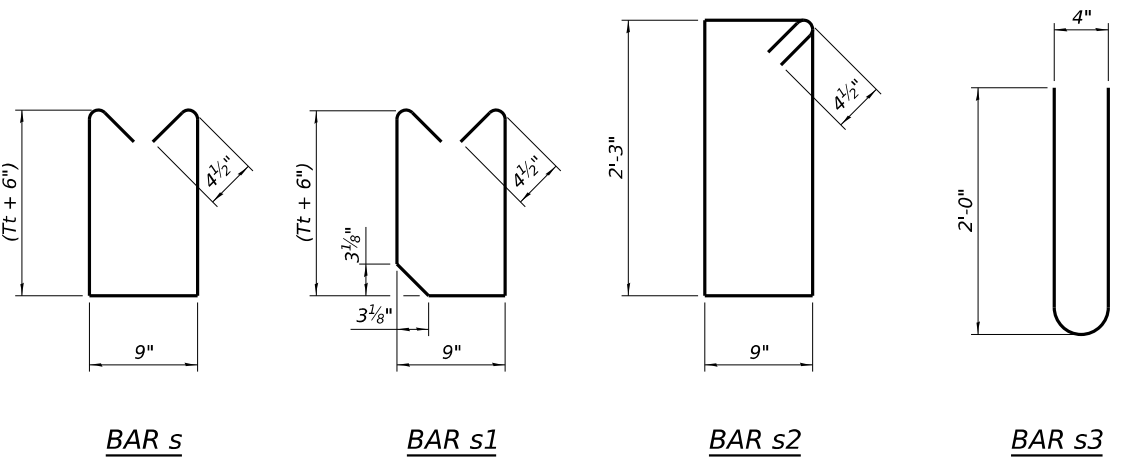
*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



SECTION F-F
(Showing culvert tie details)

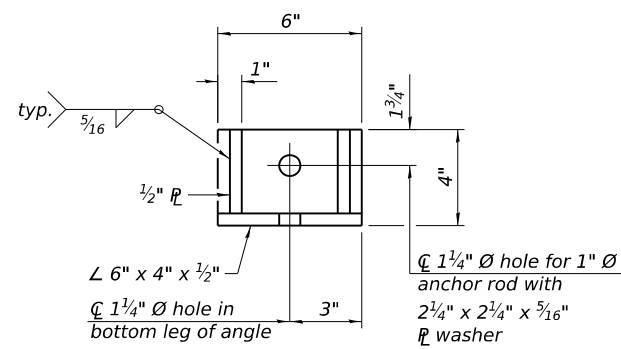


BAR s

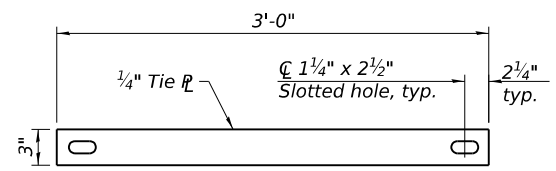
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

(Sheet 2 of 2)

MODEL: EndSection (Sheet)
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SCB-AES

5-15-2023



USER NAME	= abullock	DESIGNED	- T. Ziegler	REVISED	-
		DRAWN	- A. Bullock	REVISED	-
		CHECKED	- R. Tiwari	REVISED	-
PLOT DATE	= 2/19/2026	DATE	- 9/15/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 091-7095

SHEET 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	13CR-1	UNION	114	110
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/20/26
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

DESIGNED	- JRS
DRAWN	- MDS
CHECKED	- JRS
DATE	- 1/20/26
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
SN 091-7095 (P)**

SCALE: 1"=10'

SHEET 1

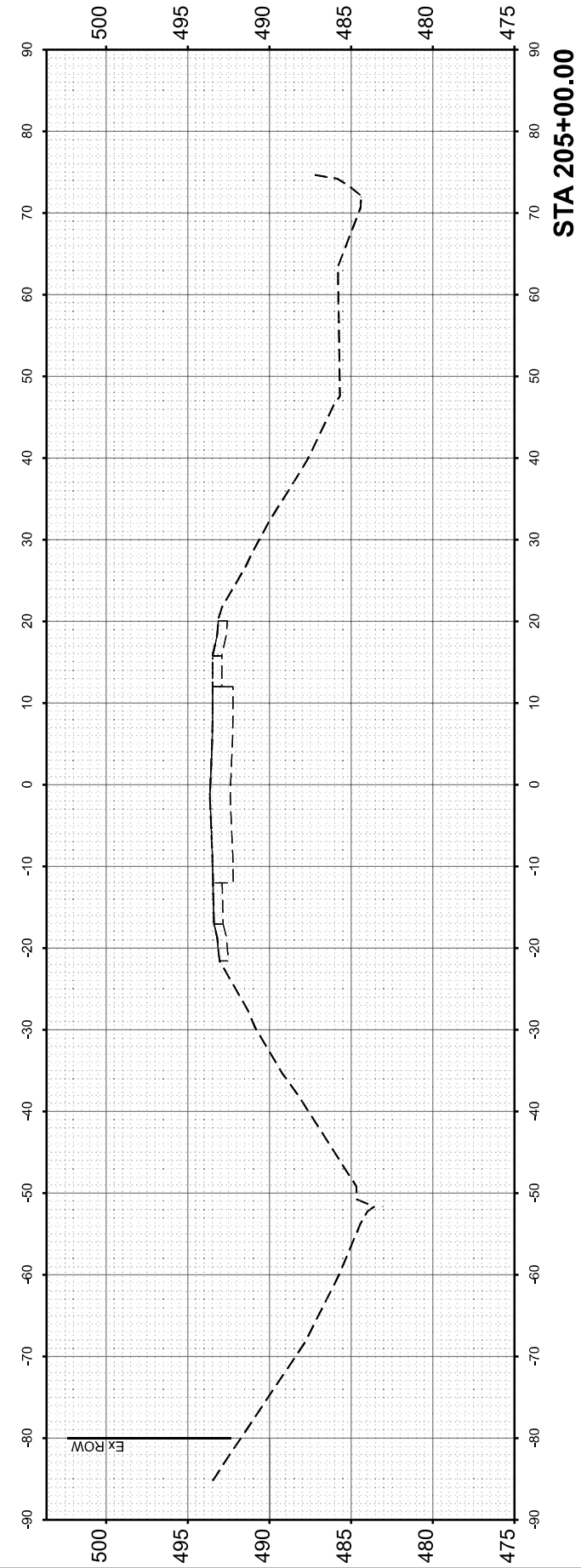
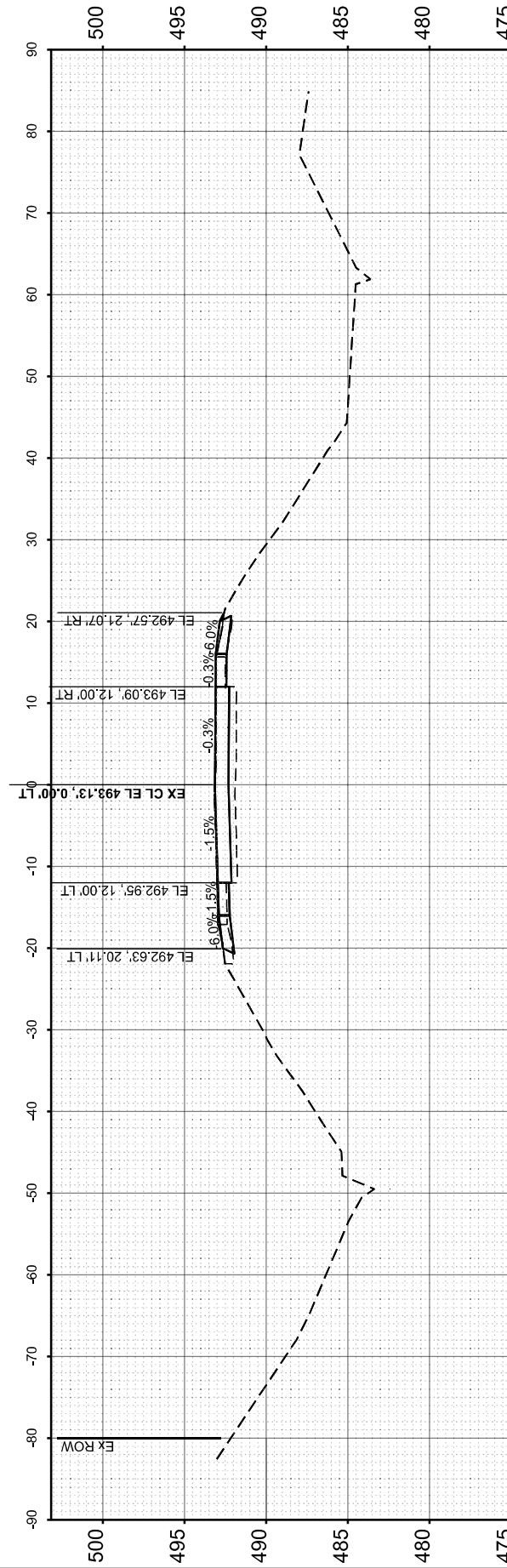
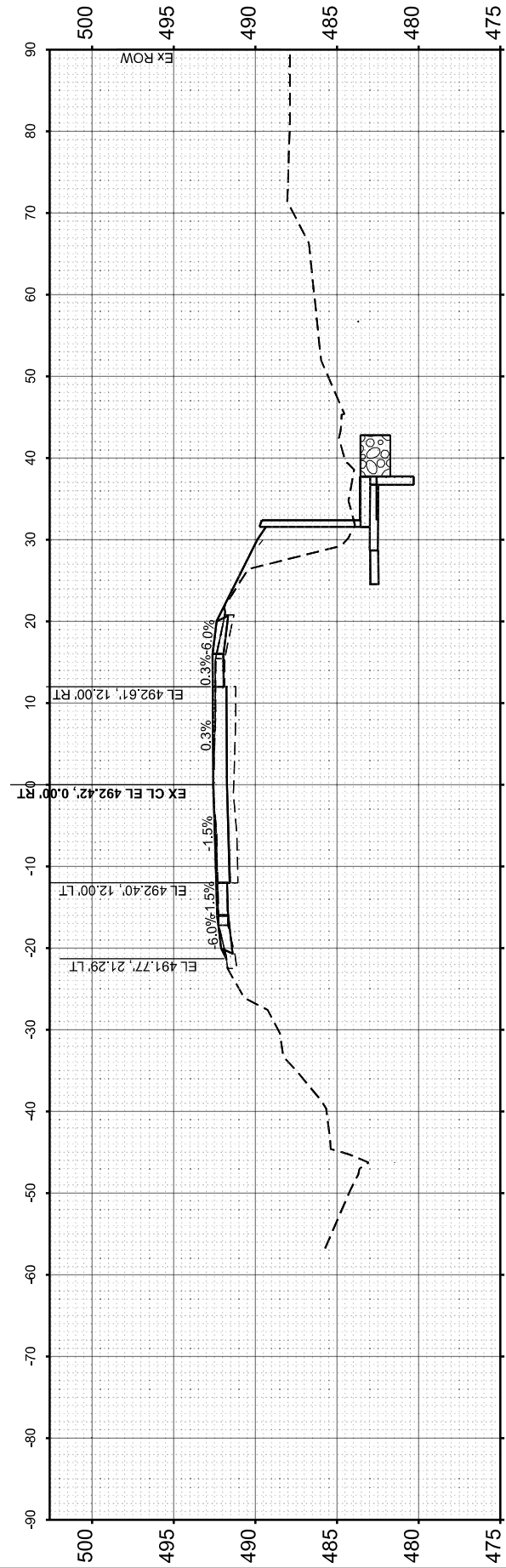
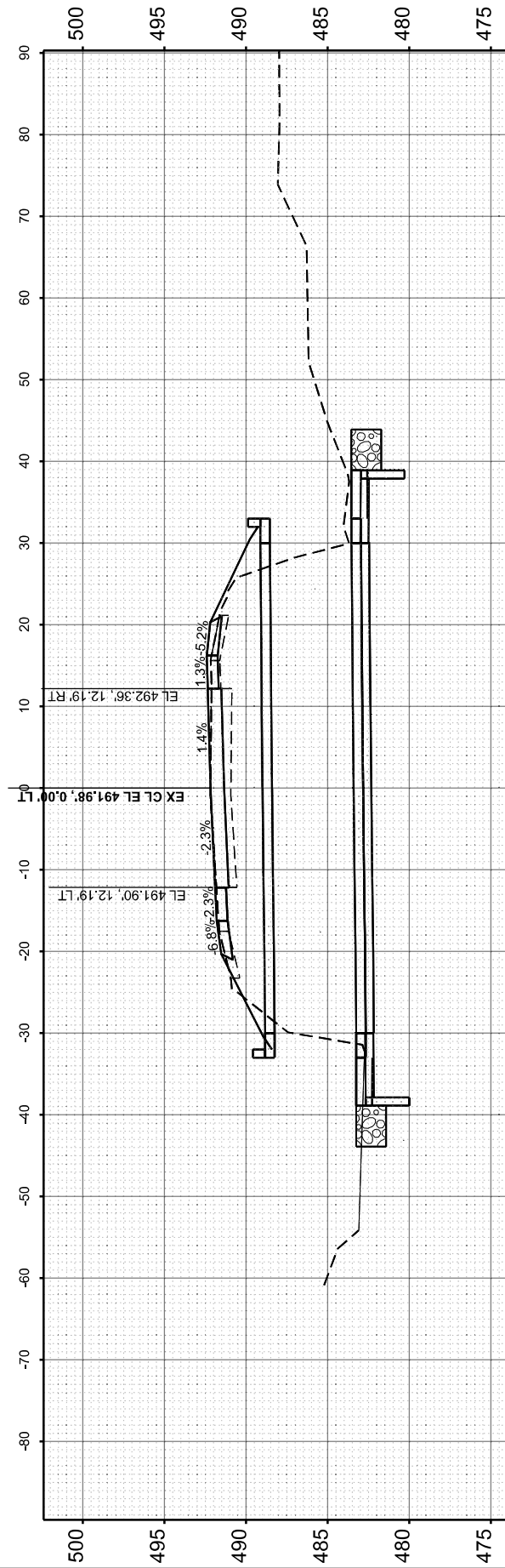
OF 2

SHEETS

STA.

TO STA.

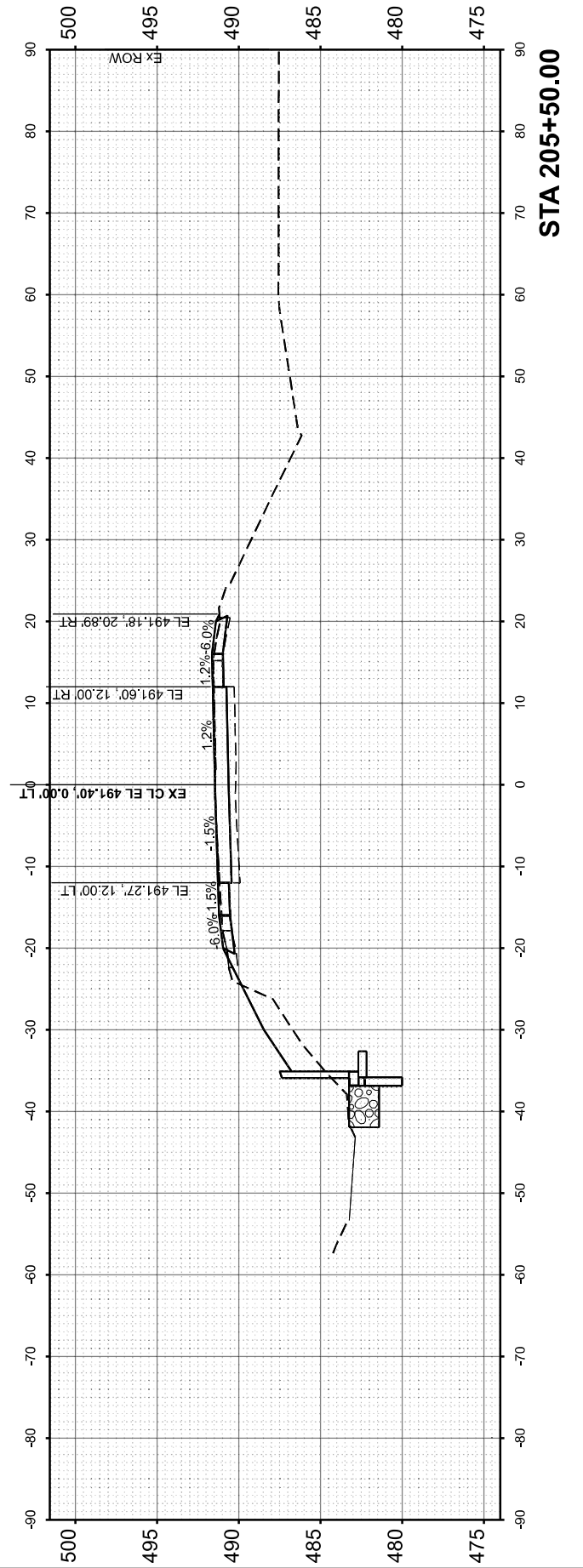
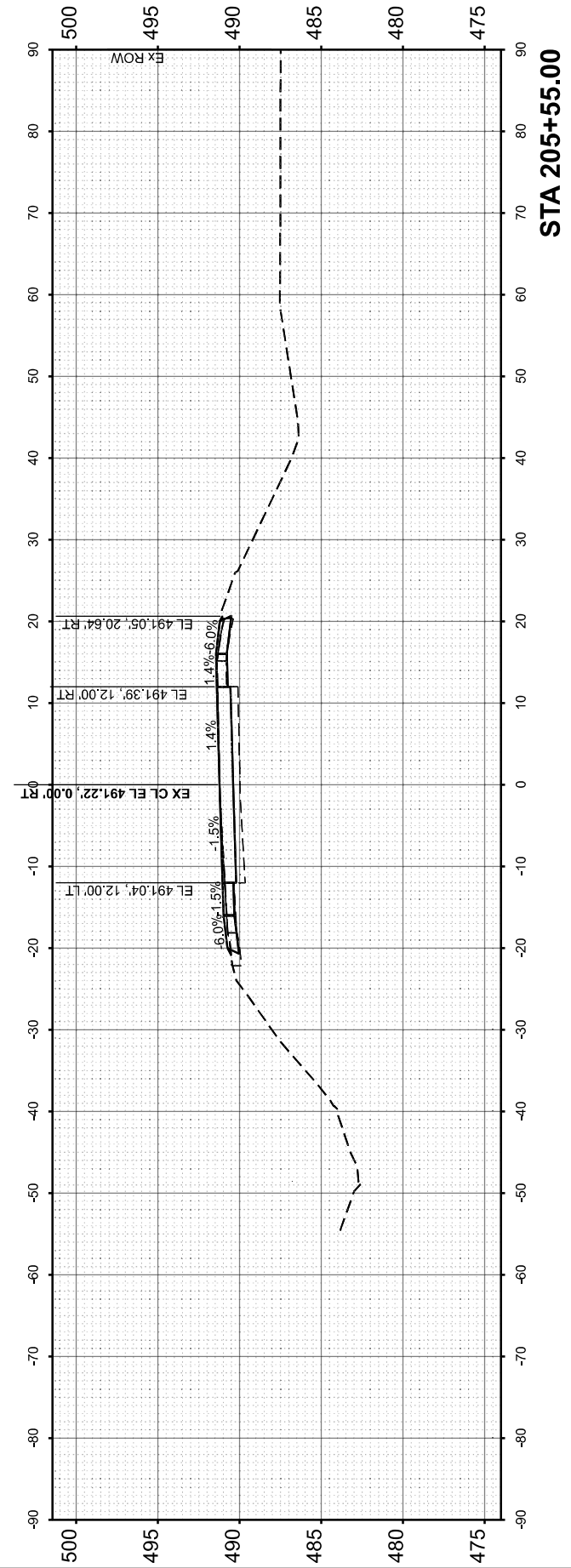
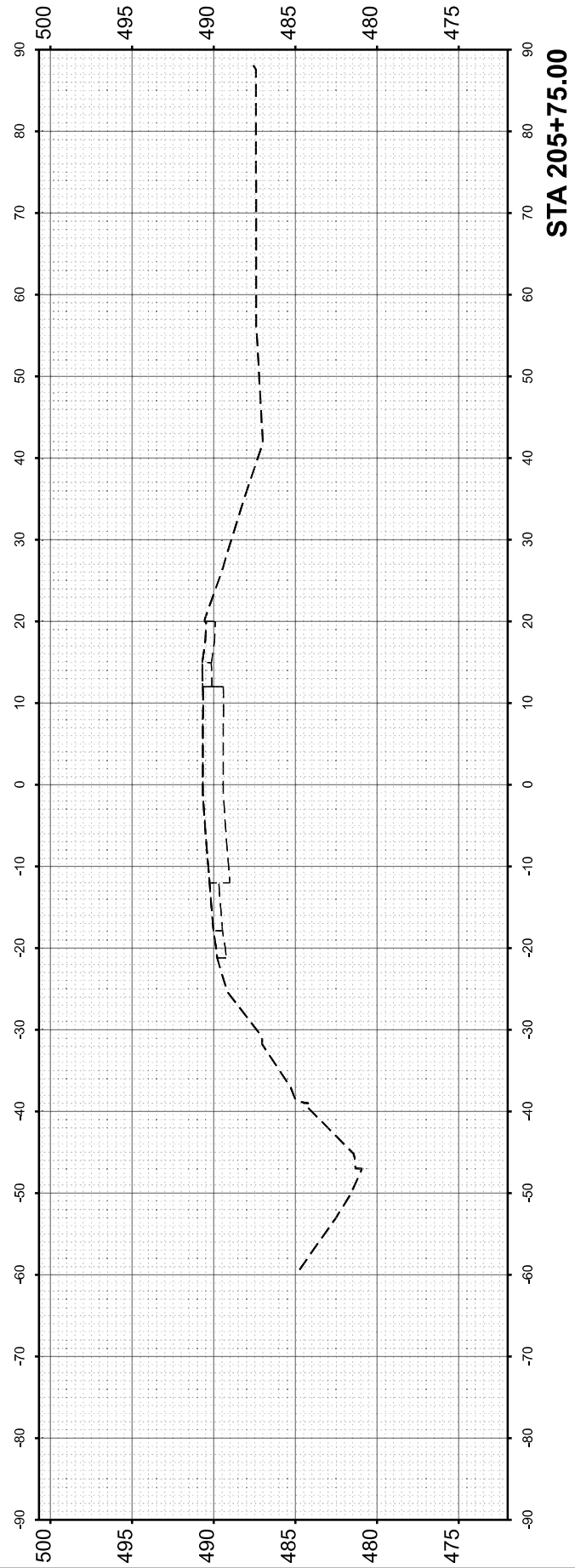
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VARIOUS	***	UNION	114	111
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				
*** (30G,104A)(B-1);(13,14A)(CR-1)				



FINISH SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 2/19/2026	DATE - 1/20/26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

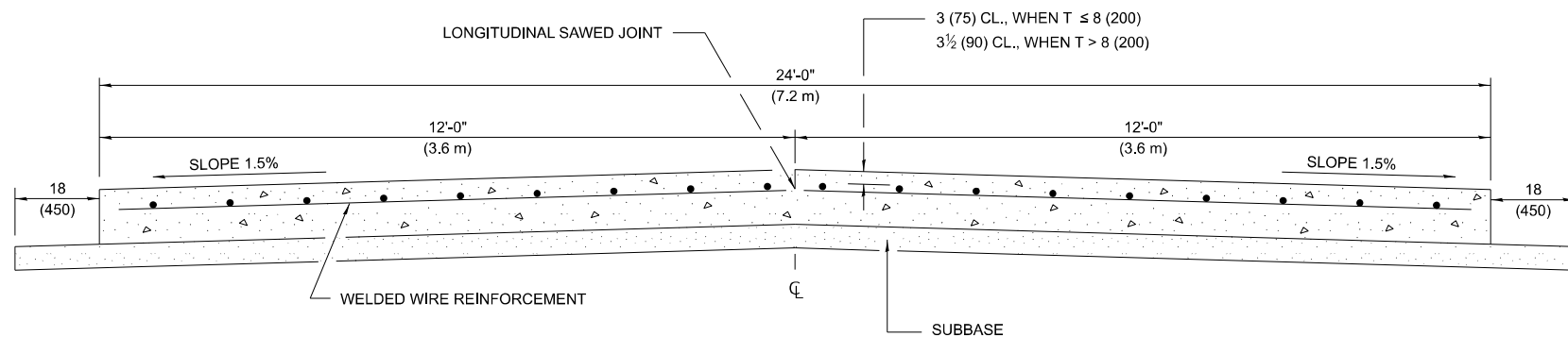
**CROSS SECTIONS
 SN 091-7095 (P)**

SCALE: 1"=10' SHEET 2 OF 2 SHEETS STA. TO STA.

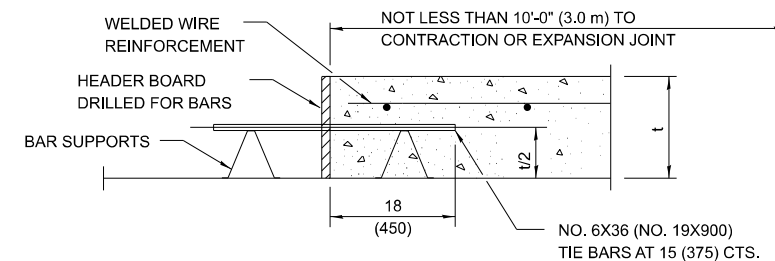
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	112
CONTRACT NO. 78A13				
ILLINOIS FED. AID PROJECT				

*** (30G,104A)(B-1);(13,14A)(CR-1)

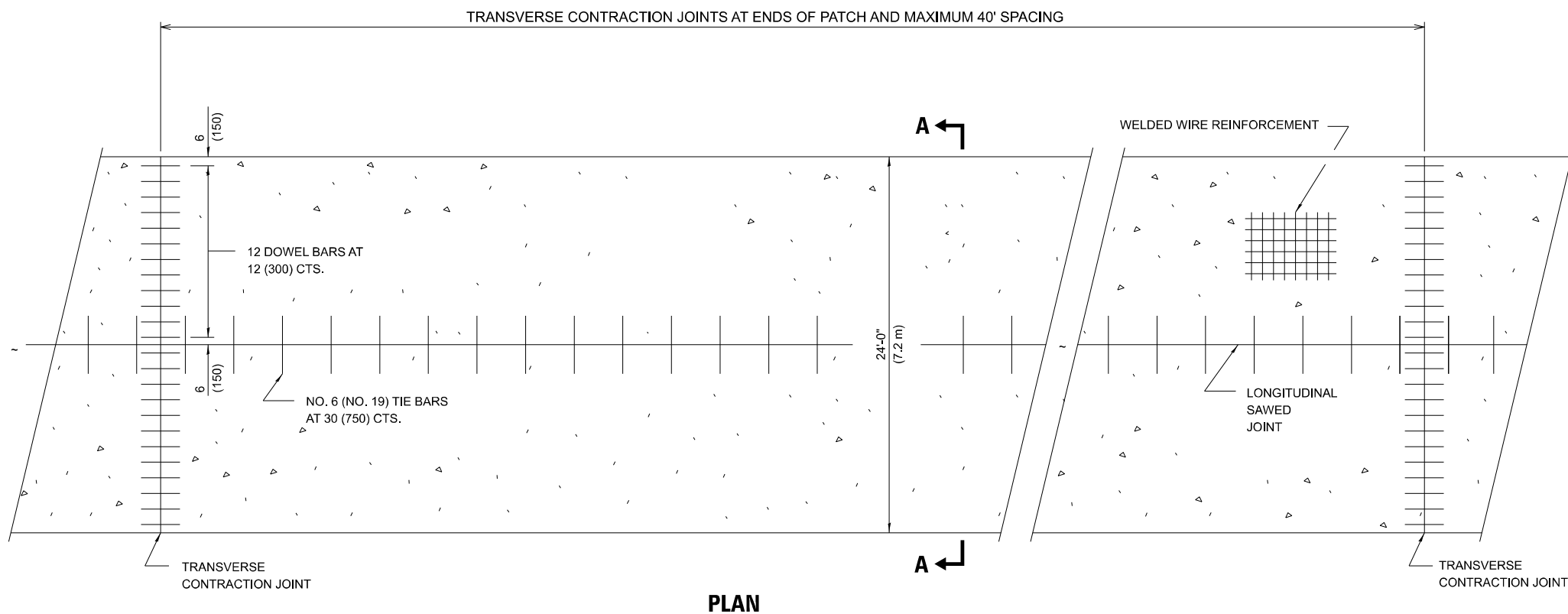
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT
(IF NEEDED PER STANDARD SPECIFICATIONS)



PLAN

GENERAL NOTES

- SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
- SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

MODEL: D9 Side Sheet
FILE NAME: I:\2023\23044 DOT D9 - PTB 207-948 - PE HI\BBI\CADD\at\CAD\sheet\13-shr-Detail_D8stds01.dgn



USER NAME = msutheard	DESIGNED - JRS	REVISED -
	DRAWN - MDS	REVISED -
	CHECKED - JRS	REVISED -
PLOT DATE = 1/26/2026	DATE - 6/12/25	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	***	UNION	114	113
CONTRACT NO. 78A13				

STD. 9-13

*** (30G,104A)(B-1);(13,14A)(CR-1)

