

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 582 (IL 111)
SECTION 6-23B-1
SOUTHBOUND BRIDGE REPLACEMENT
AND NORTHBOUND BRIDGE MAINTENANCE
SN 060-0347 & SN 060-0244
MADISON COUNTY

C-98-037-24

R. 9 W

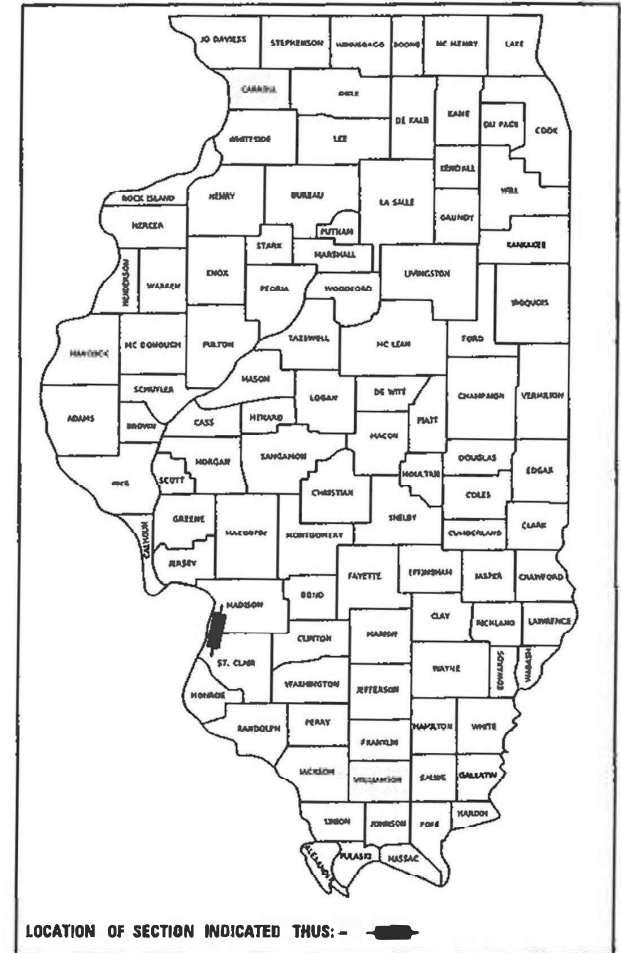
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FEDERAL PROJECT NUMBER:
HBFP-K915(853)

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90*	1
		ILLINOIS	CONTRACT NO. 76H49	

* 90 + 3 = 93 TOTAL SHEETS

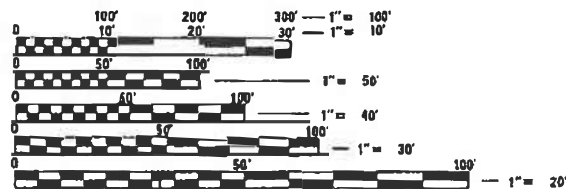
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TRAFFIC DATA

IL ROUTE 111

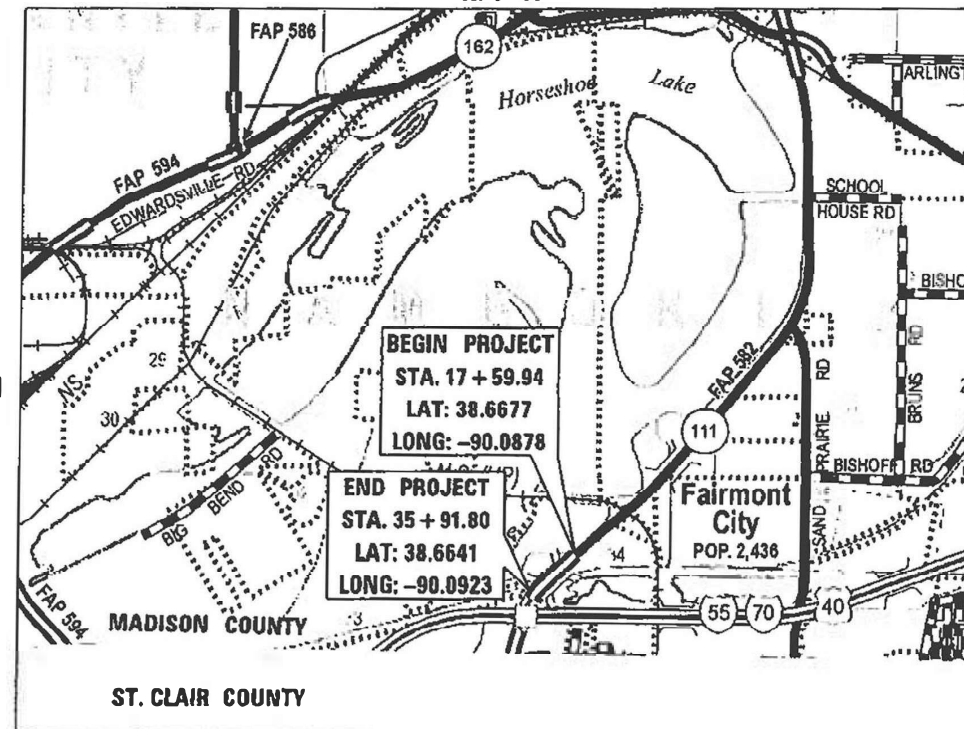
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED: 55 MPH
CURRENT ADT: 4100 (2023)
DESIGN ADT: 5522 (2043)
SU: 4.9% MU: 5.5%



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 EXCAVATORS
1-800-892-0123
OR 811

T. 3 N



MADISON COUNTY
ST. CLAIR COUNTY

LOCATION MAP
NOT TO SCALE
GROSS LENGTH = 1831.86 FT. = 0.347 MILE
NET LENGTH = 1831.86 FT. = 0.347 MILE

PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: TONI MANN

CONTRACT NO. 76H49

HMG ENGINEERS
HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR
IL PROF. DESIGN FIRM NO. 184.000899
EXPIRES 04/30/2025



License Expires: 11/30/2025

Tyler A. Kruep
TYLER A. KRUEP, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-071547
RESPONSIBLE FOR SHEETS 1-28, 32-34, 85-90



License Expires: 11/30/2024

Bradley G. Hornert
BRADLEY G. HORNERT, P.E., S.E.
ILLINOIS REGISTERED ENGINEER NO. 081-005428
RESPONSIBLE FOR SHEETS 41-84



License Expires: 11/30/2025

Brenda D. Lowery
BRENDA D. LOWERY, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-065244
RESPONSIBLE FOR SHEETS 35-40

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 19, 2023
Kevin Brown
REGIONAL ENGINEER

December 8, 2023
Steph M. Smith
ENGINEER OF DESIGN AND ENVIRONMENT

December 8, 2023
Steph M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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12	PROPOSED TYPICAL SECTIONS
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GENERAL NOTES

ALL AREAS DISTURBED WITHIN OR OUTSIDE THE CONSTRUCTION LIMITS FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING AND MULCH, METHOD 2, AS DIRECTED BY THE ENGINEER.

A NOMINAL QUANTITY OF 50 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR USE IN PROVIDING ACCESS TO ENTRANCES AND PRIVATE PROPERTIES ALONG THE PROJECT DURING CONSTRUCTION.

THE FOLLOWING CONSTANTS WERE USED IN THE CALCULATION OF QUANTITIES FOR THIS PROJECT:

NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
HOT-MIX ASPHALT	112 LBS/S.Y./INCH
GRANULAR MATERIALS	2.05 TONS/CU.YD.
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LB/S.F.

SEVERAL EXISTING SIGNS MAY INTERFERE WITH STAGING AND/OR CONSTRUCTION OPERATIONS. REMOVAL AND RELOCATION OF THESE SIGNS SHALL FOLLOW ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND WILL NOT BE PAID FOR SEPARATELY.

THE DISTRICT LAND ACQUISITION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS. QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT 618-346-3124.

ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

ALL RIGHT-OF-WAY MONUMENTS AND PROPERTY CORNERS SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING".

THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP, OR OTHER PRE-EXISTING CORNER MONUMENT, WHICH SHALL NOT BE REMOVED, DAMAGED, OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MONUMENT.

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCING BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420101-07	24' JOINTED PCC PAVEMENT
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
483001-06	PCC SHOULDERS
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
602301-04	INLET, TYPE A
602306-03	INLET, TYPE B
604001-05	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE 8
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
643001-02	SAND MODULE IMPACT ATTENUATORS
666001-01	RIGHT-OF-WAY MARKERS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701416-11	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH CROSSOVER AND BARRIER
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH TRAFFIC CONTROL DEVICES
701901-09	TEMPORARY CONCRETE BARRIER
704001-08	OBJECT AND TERMINAL MARKERS
725001-01	TYPICAL PAVEMENT MARKINGS
780001-05	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
781001-04	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
782006-01	RACEWAYS EMBEDDED IN STRUCTURE
812001-01	LUMINAIRE WIRING IN POLE
821101-02	LIGHT POLE ALUMINUM MAST ARM
830001-03	LIGHT POLE FOUNDATION
836001-04	BREAKAWAY DEVICES
838001-01	Shoulder Rumble Strips 8In.

UTILITY INFORMATION

UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

AMEREN ILLINOIS
AT&T
CHARTER COMMUNICATIONS
METRO EAST SANITARY DISTRICT
ZAYO GROUP

EXISTING UTILITIES SHOWN ON THE PLANS ARE PLOTTED FROM AVAILABLE INFORMATION. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE ONLY AND THERE MAY BE OTHERS NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL UTILITIES. ANY DAMAGE TO UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR IS ADVISED THAT LIMITED UNDERGROUND INVESTIGATION OF UTILITIES HAS BEEN PERFORMED IN CONNECTION WITH THIS PROJECT. SOME PLAN INFORMATION HAS BEEN OBTAINED FROM VISUAL SURFACE INSPECTION OR AVAILABLE DOCUMENTATION. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE PRESENCE, SPECIFIC SIZE, LOCATION, OR CONDITION OF UNDERGROUND UTILITY AND DISTRIBUTION SYSTEMS. UTILITY LINE LOCATIONS SHOWN ARE APPROXIMATE AND MAY VARY FROM WHERE SHOWN ON THE PLANS.

COMMITMENTS

- IDOT OPERATIONS WILL COMPLETE TREE REMOVAL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- TREE CLEARING RESTRICTION: NO TREES THREE INCHES OR GREATER AT BREAST HEIGHT SHALL BE CLEARED FROM APRIL 3 THROUGH SEPTEMBER 30 OF ANY GIVEN YEAR TO ASSURE THAT BAT SPECIES ARE NOT ADVERSELY AFFECTED.
- ALL LANES SHALL BE OPEN TO TRAFFIC DURING THE 2024 SOLAR ECLIPSE FROM 7:00 AM ON SATURDAY APRIL 6, 2024, THROUGH 10:00 PM ON MONDAY APRIL 8, 2024.

HMA MIX CHART

MIXTURE USE	BASE COURSE	
	BINDER	STABILIZED SUBBASE
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ Ndes=70	4% @ Ndes=30
MIX COMPOSITION	IL 19.0	IL 19.0L
FRICTION AGG	MIXTURE "B"	
QUALITY MANAGEMENT	QC/QA	QC/QA
MTD REQUIRED	NO	NO

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IL PROF DESIGN FIRM 184.000899

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES, UTILITY INFORMATION, AND COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	2
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
50102400	CONCRETE REMOVAL	CU YD	13.1		13.1	
50200100	STRUCTURE EXCAVATION	CU YD	727	727		
50200300	COFFERDAM EXCAVATION	CU YD	1347	1347		
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	1		
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1	1		
50300225	CONCRETE STRUCTURES	CU YD	772.8	772.8		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	503.5	489.7	13.8	
50300260	BRIDGE DECK GROOVING	SQ YD	1692	1692		
50300265	SEAL COAT CONCRETE	CU YD	510	510		
50300300	PROTECTIVE COAT	SQ YD	2066	2066		
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	102.4	102.4		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	10780	10780		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	245850	244050	1800	

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	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	5
			CONTRACT NO. 76H49	
		ILLINOIS FED. AID PROJECT		

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
50800515	BAR SPLICERS	EACH	16		16	
50800530	MECHANICAL SPLICERS	EACH	120	120		
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	6922	6922		
51202305	DRIVING PILES	FOOT	6922	6922		
51203200	TEST PILE METAL SHELLS	EACH	4	4		
51204650	PILE SHOES	EACH	88	88		
51500100	NAME PLATES	EACH	1	1		
52000015	PREFORMED JOINT SEAL 1 1/2"	FOOT	77		77	
52000037	PREFORMED JOINT SEAL 3"	FOOT	77		77	
52000208	FINGER PLATE EXPANSION JOINT, 3"	FOOT	76	76		
52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	169	169		
52100510	ANCHOR BOLTS, 3/4"	EACH	40	40		
52100520	ANCHOR BOLTS, 1"	EACH	20	20		
52100540	ANCHOR BOLTS, 1 1/2"	EACH	10	10		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	154	154		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	6
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
55100700	STORM SEWER REMOVAL 15"	FOOT	154	154		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	287	287		
58700300	CONCRETE SEALER	SQ FT	2993	2250	743	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	141	141		
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	300	300		
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60500060	REMOVING INLETS	EACH	2	2		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	381	381		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	339	339		

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	7
			CONTRACT NO. 76H49	
		ILLINOIS FED. AID PROJECT		

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	1579		1579	
64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1007	1007		
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	24	24		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
67100100	MOBILIZATION	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	717	717		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	2868	2868		
70306130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE III TAPE	FOOT	18236	3311	14925	
70306160	TEMPORARY PAVEMENT MARKING - LINE 12"- TYPE III TAPE	FOOT	254	254		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1579		1579	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	426		426	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1191		1191	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2	

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	8
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3		
* 78003151	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 12"	FOOT	229	229		
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	3311	3311		
* 78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	3311	3311		
* 78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	229	229		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	5		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12		
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	9372	1885	7487	
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	300			300
* 81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4			4
* 81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	950			950
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	725			725
* 81702300	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	725			725
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	6			6

* SPECIALTY ITEM

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	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	9
			CONTRACT NO. 76H49	
		ILLINOIS	FED. AID PROJECT	

80% FED
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				BRIDGE	BRIDGE	HIGHWAY LIGHTING
				0010	0047	0021
				060-0347	060-0244	060-0347
* 83010600	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. MAST ARM	EACH	6			6
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	40			40
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	4			4
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	6			6
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	4		4	
X0324028	GROUT FOR USE WITH RIPRAP	CU YD	15	15		
X5200101	REMOVE EXISTING JOINT	FOOT	156		156	
X2200020	FENCE REMOVAL AND REINSTALLATION	FOOT	73	73		
X5211615	HIGH LOAD MULTI-ROTATIONAL BEARINGS, DISC, GUIDED EXPANSION-300K	EACH	10	10		
X5211630	HIGH LOAD MULTI-ROTATIONAL BEARINGS, DISC, GUIDED EXPANSION-600K	EACH	5	5		
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	15902		15902	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Z0010400	CLEANING BRIDGE SEATS	SQ FT	743		743	
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1	1		
Z0041895	POLYMER CONCRETE	CU FT	8.7		8.7	
52000204	FINGER PLATE EXPANSION JOINT, 2"	FOOT	76	76		
Ø Z0076600	TRAINEES	HOUR	3500	3500		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	3500	3500		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	7	7		

* SPECIALTY ITEM
Ø 0042

REV. - MS

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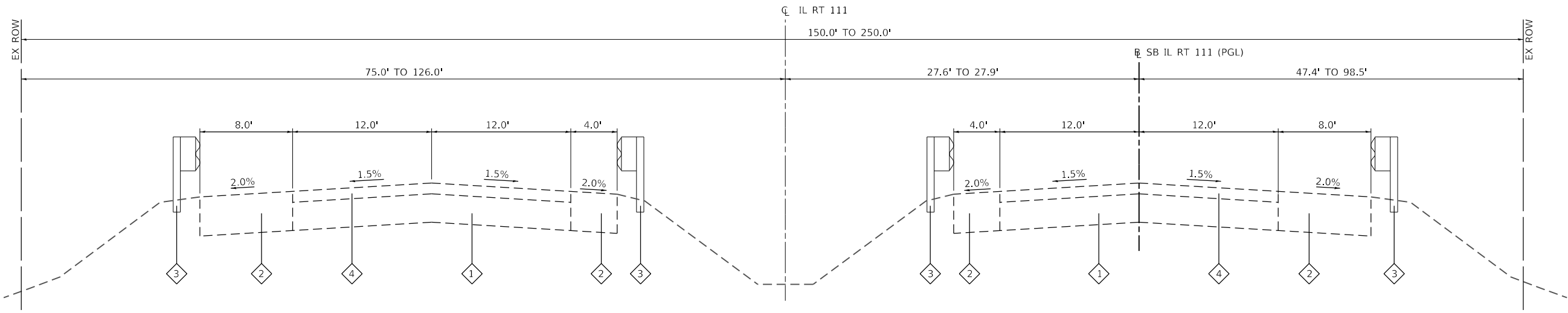
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	DATE - 10/17/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	10
			CONTRACT NO. 76H49	
		ILLINOIS FED. AID PROJECT		



EXISTING TYPICAL SECTION
STA. 226+80 TO STA. 228+36

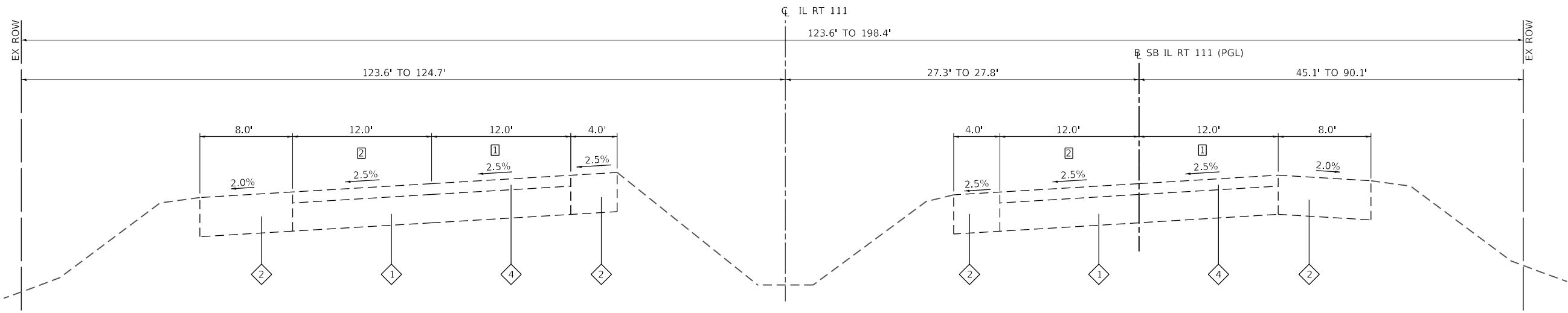
BRIDGE OMISSION
STA. 228+36 TO STA. 231+47

TYPICAL SECTION LEGEND

- 1 EXISTING PCC PAVEMENT, 10"-8"-10"
- 2 EXISTING HMA SHOULDER, 8" & VARIES
- 3 EXISTING GUARDRAIL
- 4 EXISTING HMA SURFACE COURSE, 1-1/2"

TYPICAL SECTION NOTES

- 1 SUPERELEVATION TRANSITIONS FROM 2.5% TO 0.1% BETWEEN STA. 231+47 TO STA. 234+00
- 2 SUPERELEVATION TRANSITIONS FROM 2.5% TO 1.0% BETWEEN STA. 231+47 TO STA. 234+00



EXISTING TYPICAL SECTION
STA. 231+47 TO STA. 234+00

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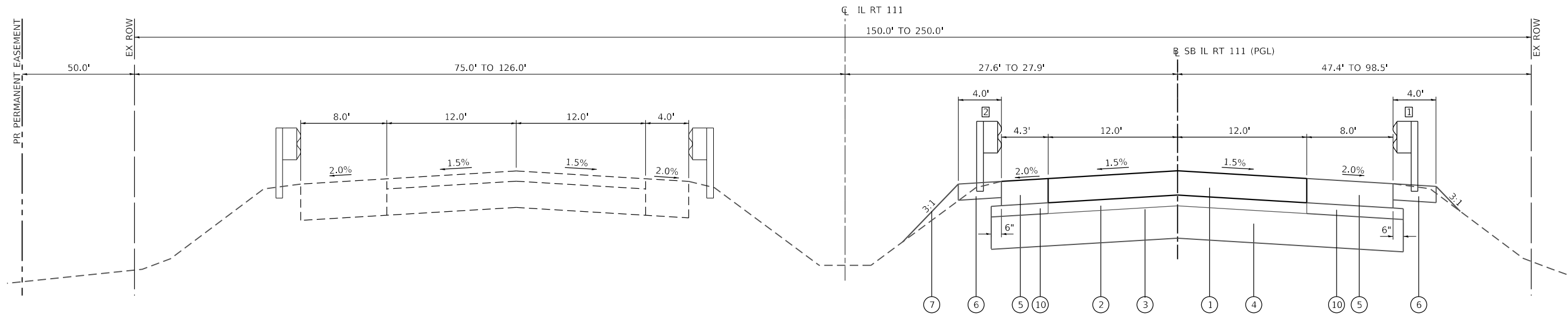
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	11
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

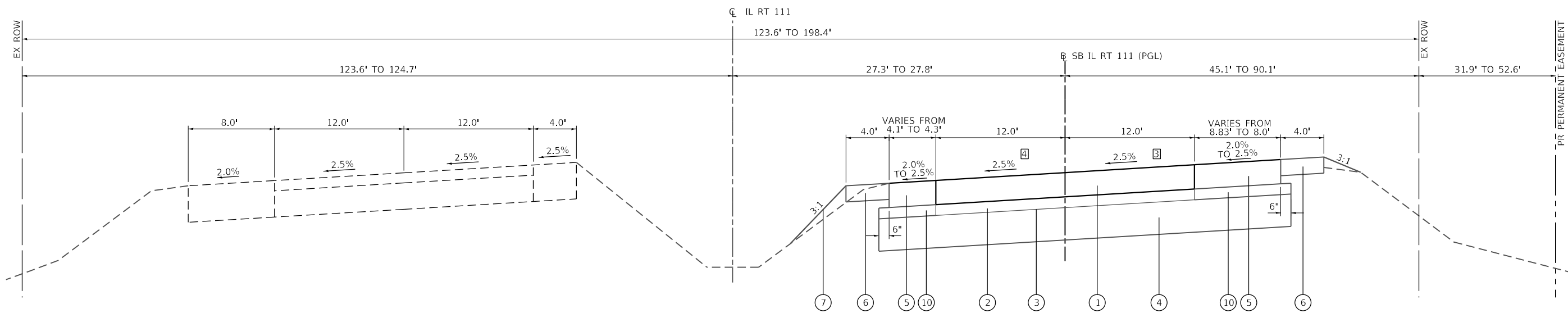


PROPOSED TYPICAL SECTION

STA. 226+80.00 TO STA. 227+76.80

BRIDGE OMISSION

STA. 227+76.80 TO STA. 232+05.82



PROPOSED TYPICAL SECTION

STA. 232+05.82 TO STA. 234+00.00

TYPICAL SECTION LEGEND

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- ② STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
- ⑤ PORTLAND CEMENT CONCRETE SHOULDERS 9"
- ⑥ AGGREGATE SHOULDERS, TYPE A, 6"
- ⑦ PROPOSED FINISHED GRADE
- ⑧ HOT-MIX ASPHALT BASE COURSE, 9"
- ⑨ SUBBASE GRANULAR MATERIAL, TYPE A 4"
- ⑩ AGGREGATE BASE COURSE, TYPE A 4"

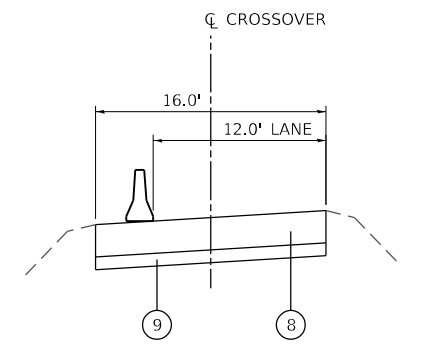
TYPICAL SECTION NOTES

- ① GUARDRAIL BEGINS AT STA. 226+07 RT
- ② GUARDRAIL BEGINS AT STA. 225+43 LT
- ③ SEE SUPERELEVATION TABLE FOR SLOPE TRANSITION
- ④ SEE SUPERELEVATION TABLE FOR SLOPE TRANSITION

SUPERELEVATION TABLE

STATION	LT SHDR	LT LANE	RT LANE	RT SHDR
230+70.00	+2.0%	+1.5%	-1.5%	-2.0%
231+09.00	+2.0%	+1.5%	0.0%	TRANS.
231+47.46	+2.0%	+1.5%	+1.5%	TRANS.
231+74.00	+2.5%	+2.5%	+2.5%	+2.5%
233+36.00	+2.5%	+2.5%	+2.5%	+2.5%
234+00.00	+2.3%(EX)	+1.0%(EX)	+0.1%(EX)	-5.9%(EX)

NOTE: SEE BRIDGE PLANS FOR SUPERELEVATION DIAGRAMS



CROSSOVER TYPICAL SECTION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICAL SECTIONS

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

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 12
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

STATION	STATION	OFFSET	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
225+16	234+00	CL	555	416	213	204
TOTAL			555	416	213	204

NOTES:

1. BASED ON 25% SHRINKAGE

PAVEMENT REMOVAL SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	PAVEMENT REMOVAL (SQ YD)	PAVED SHOULDER REMOVAL (SQ YD)
226+80.00	CL	228+36.38	CL	433.6	
231+47.33	CL	234+00.00	CL	672.0	
226+80.00	LT	228+14.77	LT		54.5
226+80.00	RT	228+64.27	RT		140.6
231+23.13	LT	234+00.00	LT		119.0
231+70.12	RT	234+00.00	RT		168.7
32+30.44	LT	33+91.53	LT		71.8
32+30.44	14.89' LT	35+91.80	15.78' RT	399.7	
34+24.60	RT	35+99.21	RT		75.3
TOTAL				1,506	630

GUARDRAIL REMOVAL SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	GUARDRAIL REMOVAL (FOOT)
226+87.11	18.36' LT	228+02.05	17.24' LT	115.0
231+21.66	34.88' LT	232+05.59	35.75' LT	82.7
226+80.37	20.42' RT	227+95.42	19.70' RT	115.1
228+41.06	20.64' RT	228+66.25	16.99' RT	25.8
TOTAL				339

SEEDING SCHEDULE

STATION	STATION	OFFSET	SEEDING, CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH, METHOD 2 (ACRE)	TEMPORARY EROSION CONTROL SEEDING (POUND)
225+16.39	227+86.30	LT	0.02	1.8	1.8	1.8	0.02	2.0
225+73.11	228+70.09	RT	0.04	3.8	3.8	3.8	0.04	4.2
228+01.83	228+77.20	RT	0.02	2.0	2.0	2.0	0.02	2.3
231+19.23	35+72.62	RT	0.16	14.0	14.0	14.0	0.16	15.5
232+04.30	232+83.11	RT	0.03	2.5	2.5	2.5	0.03	2.7
232+91.27	234+00.00	RT	0.01	1.0	1.0	1.0	0.01	1.1
TOTAL			0.50	25	25	25	0.50	28

NOTES:

- FERTILIZER NUTRIENTS: 90 LB/ACRE PER NUTRIENT
- TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE
- MULCH QUANTITY INCLUDES TWO APPLICATIONS

PAVEMENT SCHEDULE

STATION	STATION	OFFSET	PORTLAND CEMENT CONCRETE PAVEMENT 9" (SQ YD)	STABILIZED SUBBASE HOT-MIX ASPHALT, 4" (SQ YD)	AGGREGATE BASE COURSE TYPE A 4" (SQ YD)	AGGREGATE SUBGRADE IMPROVEMENT 12" (SQ YD)	PORTLAND CEMENT SHOULDERS 9" (SQ YD)	AGGREGATE SHOULDERS, TYPE A, 6" (SQ YD)	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	HOT-MIX ASPHALT BASE COURSE 9" (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE A, 4" (SQ YD)	PROTECTIVE COAT (SQ YD)
225+16.39	227+63.03	LT						94.9					
225+73.11	227+81.09	RT						83.8					
226+80.00	227+32.33	CL	139.6	241.4	145.9	387.3	69.8			543.1			209.4
227+32.33	227+76.80	CL							192.6				192.6
228+01.72	228+29.20	RT						10.7					10.7
232+05.82	232+54.92	CL							191.3				191.3
232+54.92	234+00.00	CL	386.9	502.3	284.9	788.5	215.7			1,130.2			602.6
231+21.47	233+95.64	LT											
32+30.44	33+91.53	LT						71.8			399.7	399.7	71.8
34+24.60	35+99.21	RT						75.3					75.3
TOTAL			527	744	431	1,176	444	289	384	1,674	400	400	1,355

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

QUANTITY SCHEDULES

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	13
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

STATION	STATION	OFFSET	DESCRIPTION	COLOR	TEMPORARY PAVEMENT MARKING		PAVEMENT MARKING REMOVAL - WATER BLASTING (SQ FT)	PREFORMED PLASTIC PAVEMENT MARKING		GROOVING FOR RECESSED PAVEMENT MARKING		RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY) CRYSTAL (EACH)
					LINE 6" TYPE III TAPE (FOOT)	LINE 12" TYPE III TAPE (FOOT)		TYPE D STANDARD LINE 6" (FOOT)	TYPE B STANDARD LINE 12" (FOOT)	7" (FOOT)	13" (FOOT)	
STAGE 1												
16+13.37	36+80.71	LT	EDGE LINE	YELLOW	2061.6		1030.8					
16+13.37	36+97.61	RT	EDGE LINE	YELLOW	2092.8		1046.4					
STAGE 2												
16+13.37	36+82.94	LT	EDGE LINE	YELLOW	2064.8		1032.4					
16+13.37	35+91.80	LT	EDGE LINE	YELLOW	1980.5		990.3					
16+26.70	33+34.51	LT	EDGE LINE	WHITE	1704.7		852.4					
16+27.81	35+91.96	RT	EDGE LINE	WHITE	1971.8		985.9					
STAGE 3												
16+13.37	36+97.61	RT	EDGE LINE	YELLOW	2092.8		1046.4					
16+13.37	19+93.94	LT	DIAGONALS	YELLOW		24.6	24.6					
STAGE 4												
26+00.05	35+63.02	LT	EDGE LINE	WHITE	956.0		478.0					
FINAL												
226+80.00	234+00.00	CL	10' - 30' SKIP	WHITE	180.0		90.0	180.0		180.0		5
		LT	EDGE LINE	YELLOW	718.2		359.1	718.2		718.2		
		RT	EDGE LINE	WHITE	721.8		360.9	721.8		721.8		
234+00.00	35+99.21	LT	EDGE LINE	YELLOW	205.2		102.6	205.2		205.2		
17+59.91	21+51.99	LT	DBL CENTERLINE	YELLOW	441.2		220.6	441.2		441.2		
		RT	DBL CENTERLINE	YELLOW	782.8		391.4	782.8		782.8		
		CL	DIAGONALS	YELLOW		229.0	229.0		229.0		229.0	
31+28.38	33+92.04	LT	EDGE LINE	YELLOW	261.2		130.6	261.2		261.2		
TOTAL					18,236	254	9,372	3,311	229	3,311	229	5

TEMPORARY CONCRETE BARRIER SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	TEMPORARY CONCRETE BARRIER (FOOT)	MODULAR GLARE SCREEN SYSTEM, TEMPORARY (FOOT)	PINNING TEMPORARY CONCRETE BARRIER (EACH)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)
STAGE 2							
20+15.32	12.33' LT	35+91.80	14.60' RT	1,578.3	1,578.3	300	
STAGE 3							
26+00.06	28.68' LT	32+23.86	47.24' LT			63	595.1
STAGE 4							
26+00.06	28.68' LT	32+23.86	47.24' LT			63	595.1
TOTAL				1,579	1,579	426	1,191

IMPACT ATTENUATORS SCHEDULE

STATION	OFFSET	IMPACT ATTENUATORS FULLY REDIRECTIVE NARROW) TEST LEVEL 3 (EACH)	IMPACT ATTENUATORS TEMPORARY FULLY REDIRECTIVE NARROW TEST LEVEL 3 (EACH)	IMPACT ATTENUATORS RELOCATE FULLY REDIRECTIVE NARROW TEST LEVEL 3 (EACH)
PERMANENT				
228+07.70	20.00' RT	1		
STAGE 2				
20+15.32	12.33' LT		1	
STAGE 3				
31+96.12	27.44' LT			1
STAGE 4				
31+96.12	27.44' LT			1
TOTAL		1	1	2

GUARDRAIL SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS (FOOT)	GUARDRAIL REFLECTORS TYPE A (EACH)	TRAFFIC BARRIER TERMINAL			TERMINAL MARKER DIRECT APPLIED (EACH)
						TYPE 1 (SPECIAL) TANGENT (EACH)	TYPE 2 (EACH)	TYPE 6 (EACH)	
225+43.16	17.82' LT	227+63.03	16.00' LT	132.4	4	1		1	1
226+06.71	21.00' RT	227+68.09	20.00' RT	98.9	4	1	1		1
31+18.57	8.04' LT	33+56.26	10.97' LT	148.8	4	1		1	1
TOTAL				381	12	3	1	2	3

ROW MARKERS SCHEDULE

STATION	OFFSET	FURNISHING AND ERECTING RIGHT-OF-WAY MARKER (EACH)
24+45.50	126.06' LT	1
29+04.83	126.00' LT	1
30+11.35	123.53' LT	1
34+42.53	159.18' RT	1
TOTAL		4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

QUANTITY SCHEDULES

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	14
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

STORM SEWER REMOVAL SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	STORM SEWER REMOVAL 15" (FOOT)
233+20.48	29.64' LT	234+03.47	27.11' LT	75.5
234+03.47	27.11' LT	234+89.11	28.03' LT	78.1
TOTAL				154

STORM SEWER SCHEDULE

STRUCTURE ID	BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	STORM SEWERS CLASS A TYPE 1 15" (FOOT)	TRENCH BACKFILL (CU YD)
F-1 TO I-1	233+20.48	29.64' LT	234+03.47	27.11' LT	75.5	11.9
I-1 TO F-2	234+03.47	27.11' LT	234+89.11	28.03' LT	78.1	4.0
TOTAL					154	16

MANHOLE AND INLET SCHEDULE

STRUCTURE ID	STATION	OFFSET	INLETS, TYPE A, TYPE 8 GRATE (EACH)	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID (EACH)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" (EACH)
I-1	234+03.47	27.11' LT	1	1	
F-1	233+20.48	29.64' LT			1
F-2	234+89.11	28.03' LT			1
TOTAL			1	1	2

MANHOLE AND INLET REMOVAL SCHEDULE

STATION	OFFSET	REMOVING INLETS (EACH)
234+03.47	27.11' LT	2
TOTAL		2

INLET AND PIPE PROTECTION SCHEDULE

STATION	OFFSET	INLET AND PIPE PROTECTION (EACH)
233+20.48	29.64' LT	1
234+89.11	28.03' LT	1
TOTAL		2

DRIVEWAY SCHEDULE

STATION	OFFSET	TYPE	WIDTH	AGGREGATE SURFACE COURSE, TYPE A, 6" (SQ YD)
227+78.59	RT	FE	12.0	131.5
232+75.04	RT	FE	12.0	90.4
TOTAL				222

FENCE REMOVAL SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	FENCE REMOVAL AND REINSTALLATION (FOOT)
231+88.45	33.16' RT	232+55.82	48.36' RT	73.0
TOTAL				73

PERIMETER EROSION BARRIER SCHEDULE

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	PERIMETER EROSION BARRIER (FOOT)
225+16.39	17.20' LT	227+77.81	22.04' LT	262.9
225+73.11	20.09' RT	228+70.09	53.96' RT	305.4
228+74.88	42.96' RT	228+77.20	32.04' RT	11.2
232+04.30	22.41' RT	232+83.11	64.21' RT	91.9
232+91.27	55.70' RT	234+00.00	20.83' RT	135.0
TOTAL				807

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

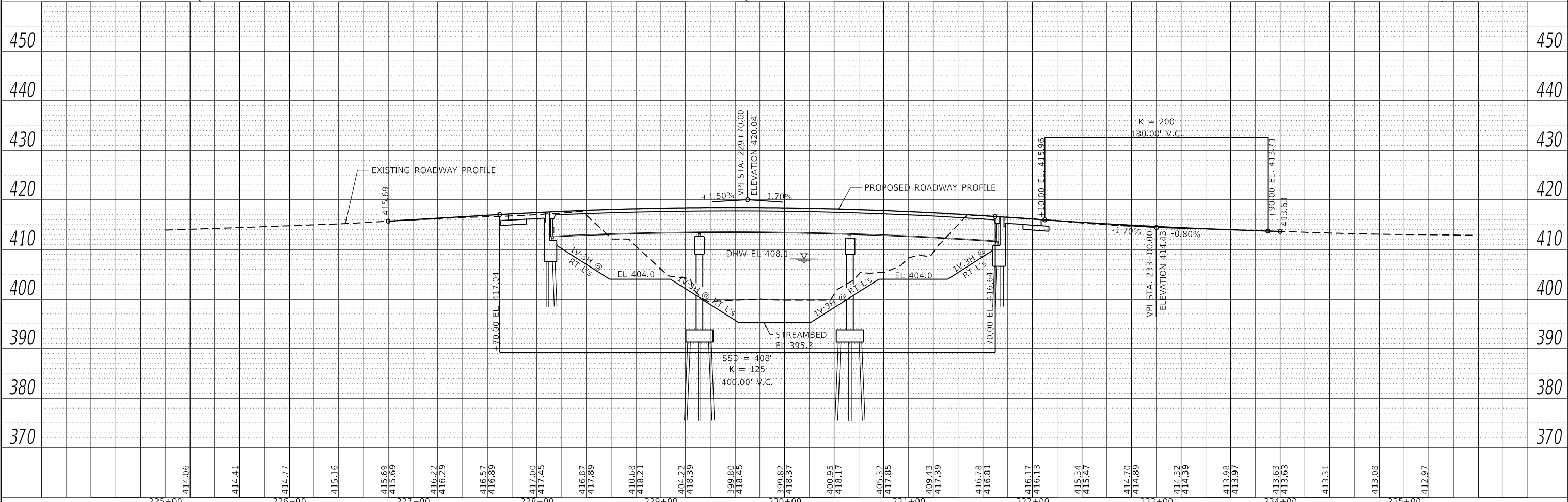
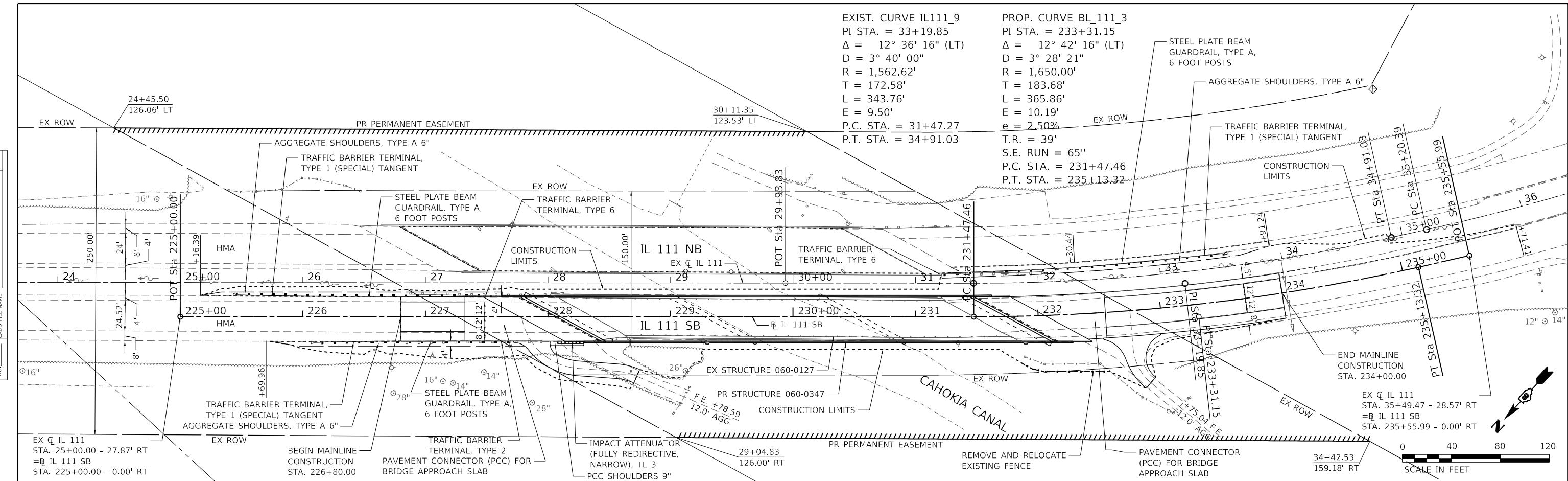
QUANTITY SCHEDULES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	15
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

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	PLOT SCALE = 80.0000" / in.	CHECKED - BMR	REvised -			SCALE: 1"=40'	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 76H49	
	PLOT DATE = 10/17/2023	DATE = 10/17/23	REvised -							

**I-25 MESSAGE
SIGN DISPLAY SEQUENCE**

PRE-CONSTRUCTION	BRIDGE WORK ON IL 111	EXIT 6 AT CAHOK CANAL	BEGINS [DATE]
STAGES 1-3	BRIDGE WORK ON IL 111	EXIT 6 AT CAHOK CANAL	LEFT LANE CLOSED
STAGE 4	BRIDGE WORK ON IL 111	EXIT 6 AT CAHOK CANAL	RIGHT LANE CLOSED

**IL 111 MESSAGE
SIGN DISPLAY SEQUENCE**

PRE-CONSTRUCTION	BRIDGE WORK AHEAD	BEGINS [DATE]
STAGES 1-4	BRIDGE WORK AHEAD	[LT/RT] LANE CLOSED

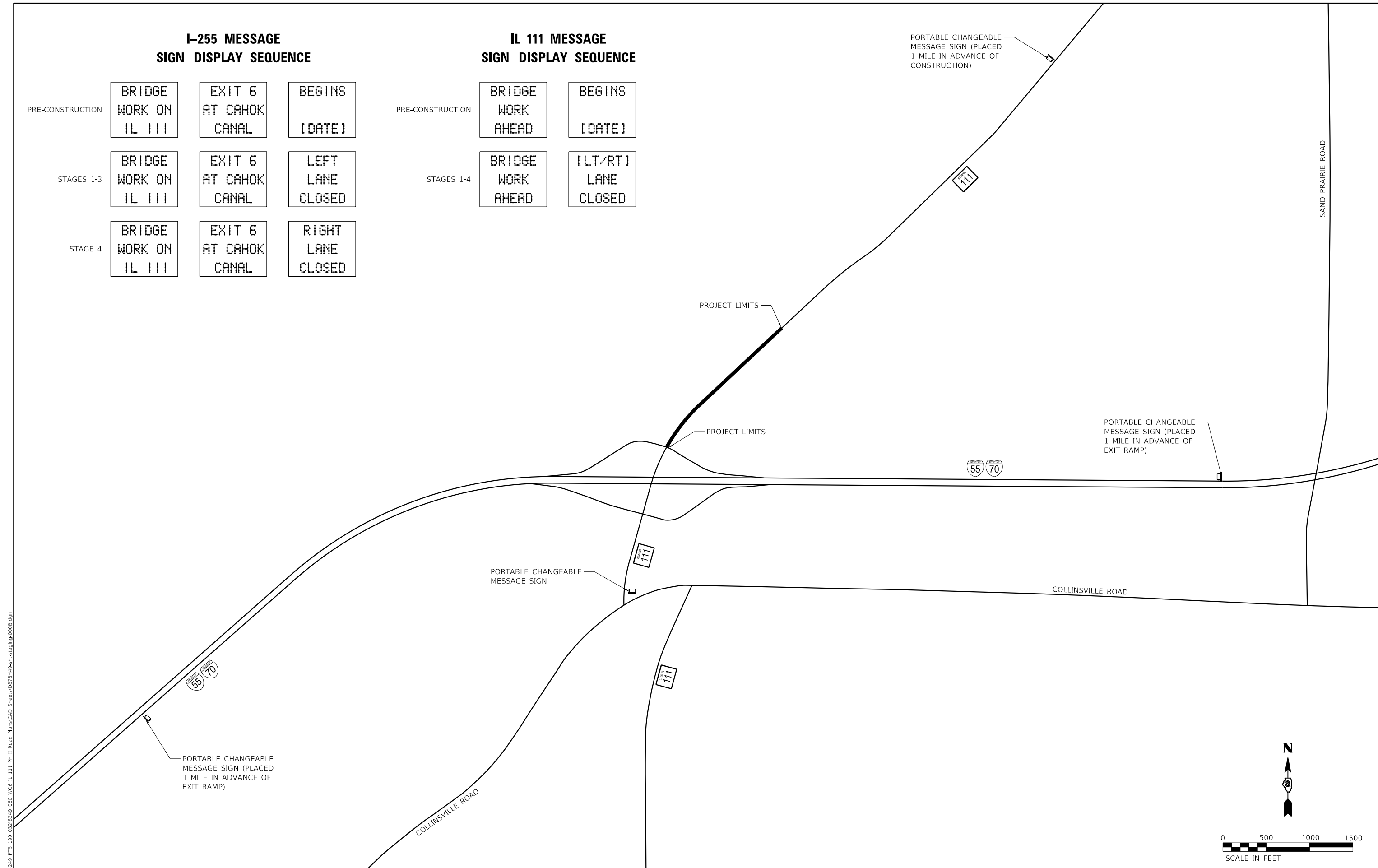
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MESSAGE SIGN (PLACED
1 MILE IN ADVANCE OF
CONSTRUCTION)

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MESSAGE SIGN (PLACED
1 MILE IN ADVANCE OF
EXIT RAMP)

PORTABLE CHANGEABLE
MESSAGE SIGN

PORTABLE CHANGEABLE
MESSAGE SIGN (PLACED
1 MILE IN ADVANCE OF
EXIT RAMP)

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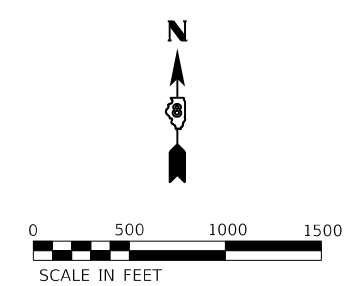
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PLOT DATE = 10/17/2023	CHECKED - TAK	REVISED -
	DATE - 10/17/23	REVISED -

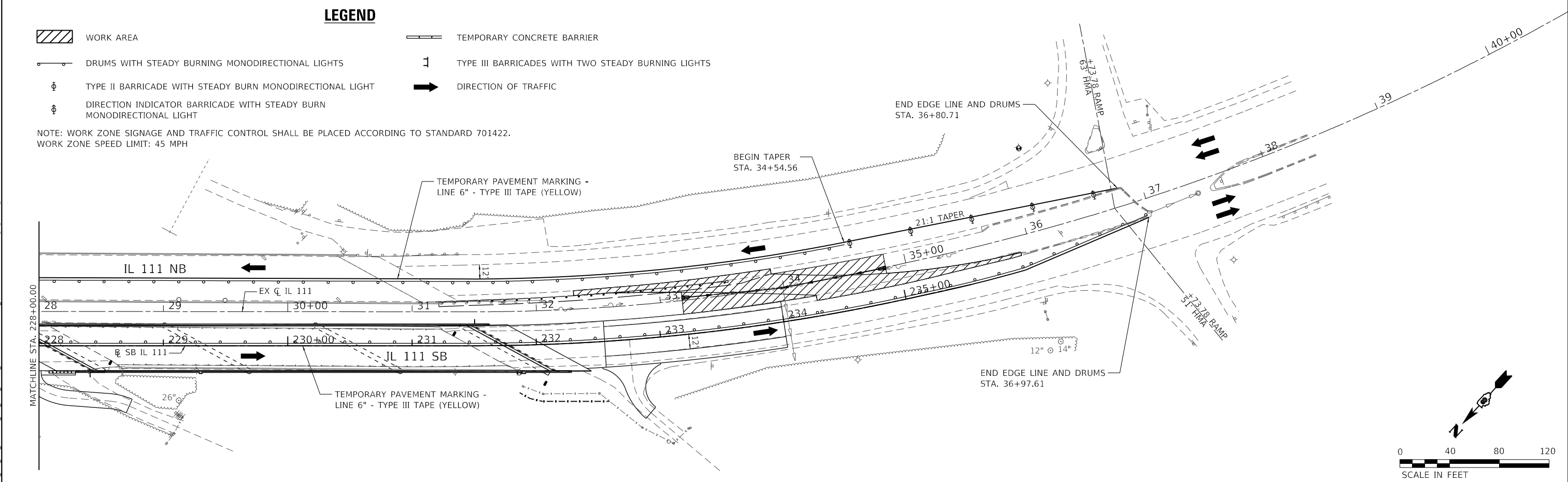
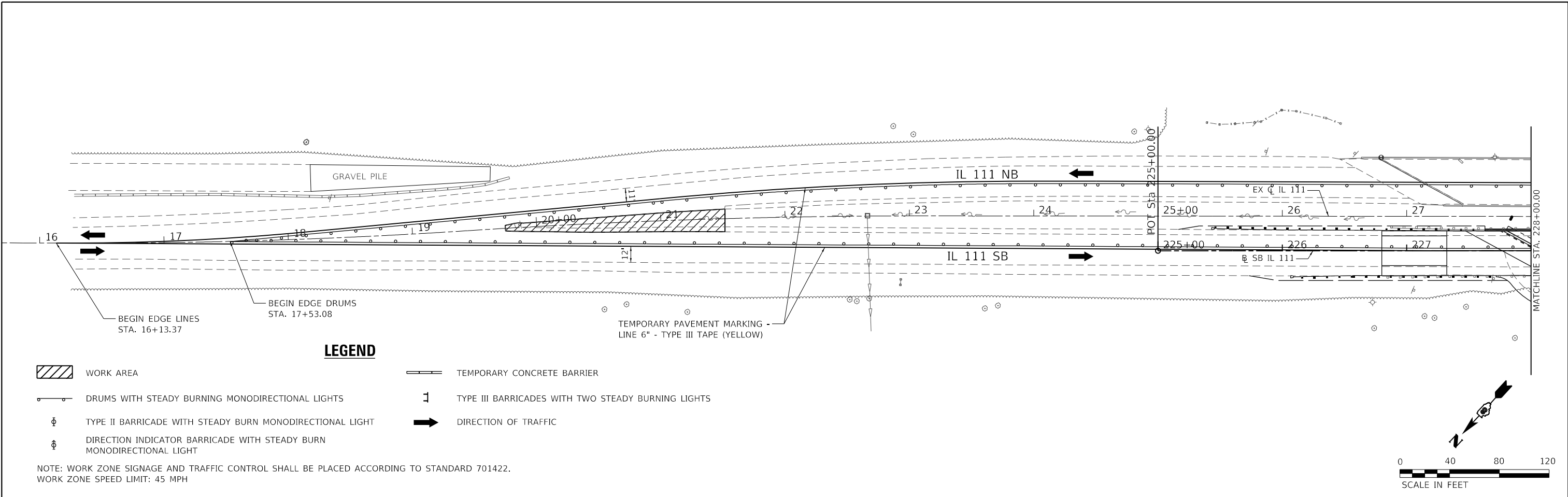
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
MESSAGE BOARD LOCATIONS**

SCALE: 1"=500' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	19
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				





MODEL: D:\m\h\...
 FILE NAME: I:\3248...
 PLOT DATE: 12/6/2023



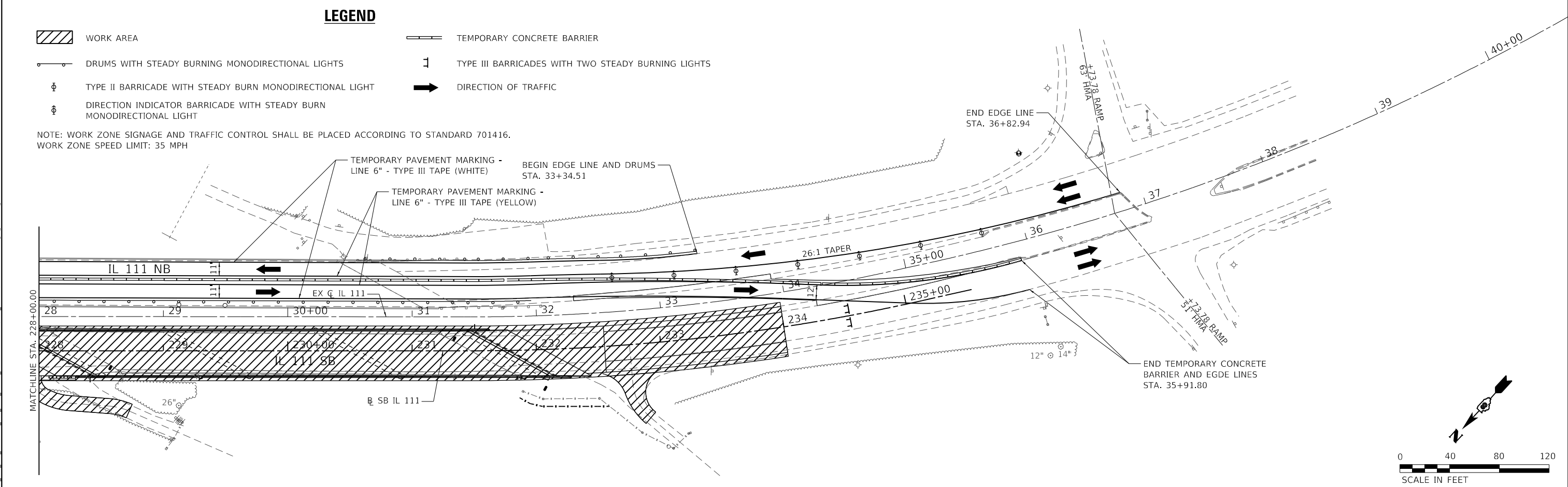
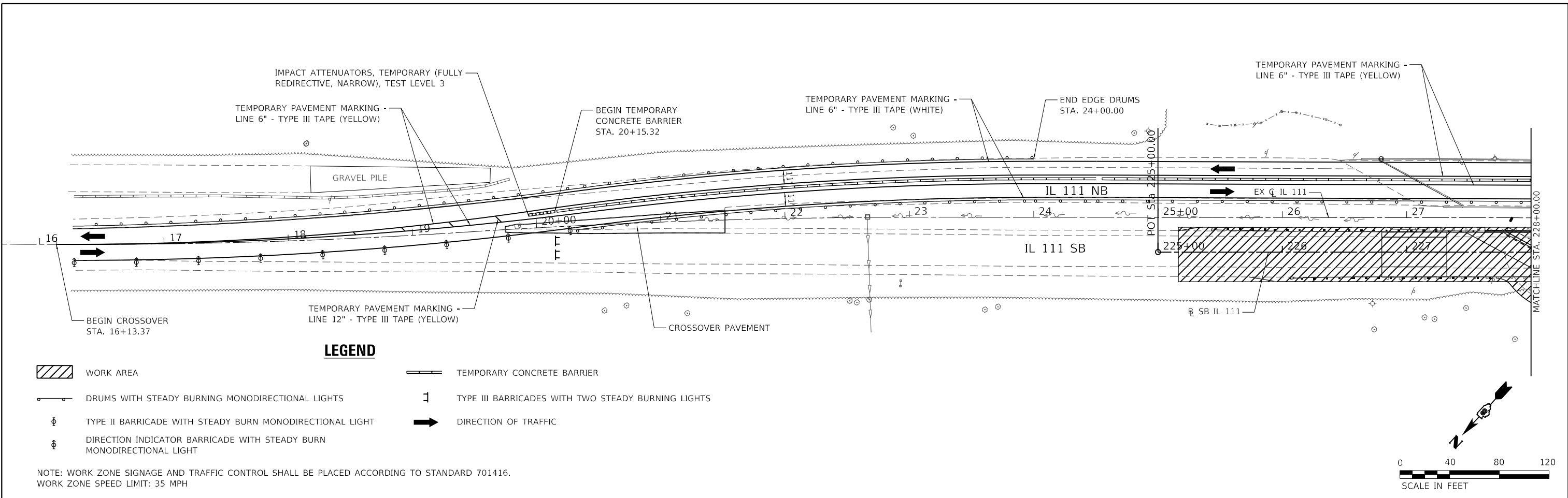
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISD -
	DATE - 10/17/23	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 1**

SCALE: 1"=40' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	20
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



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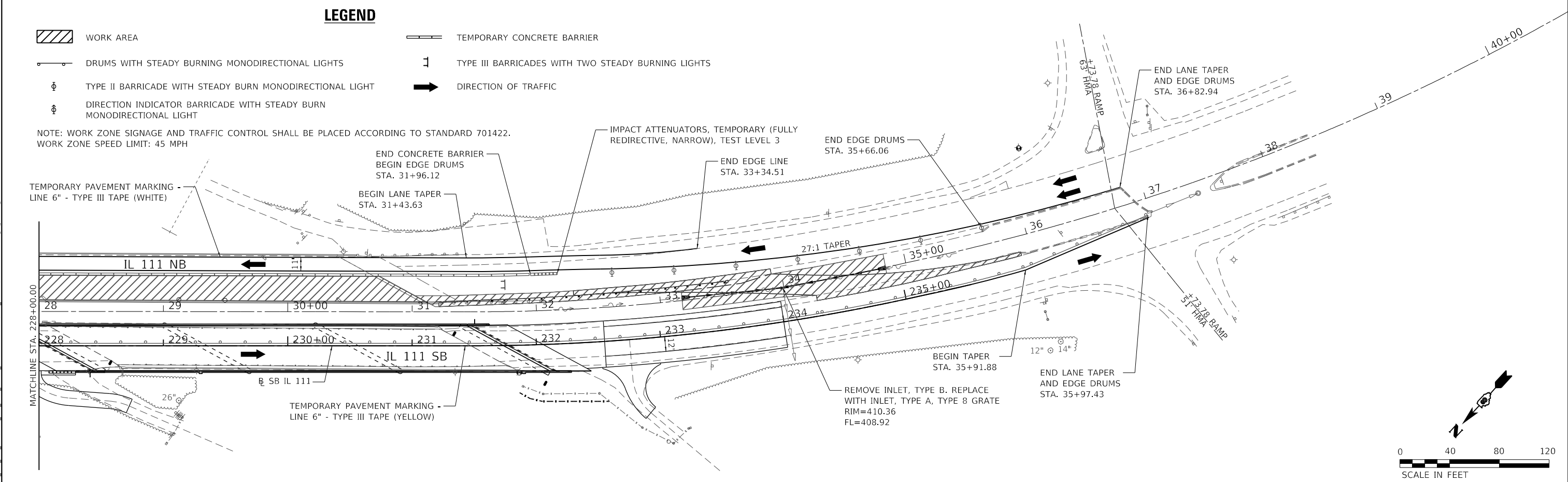
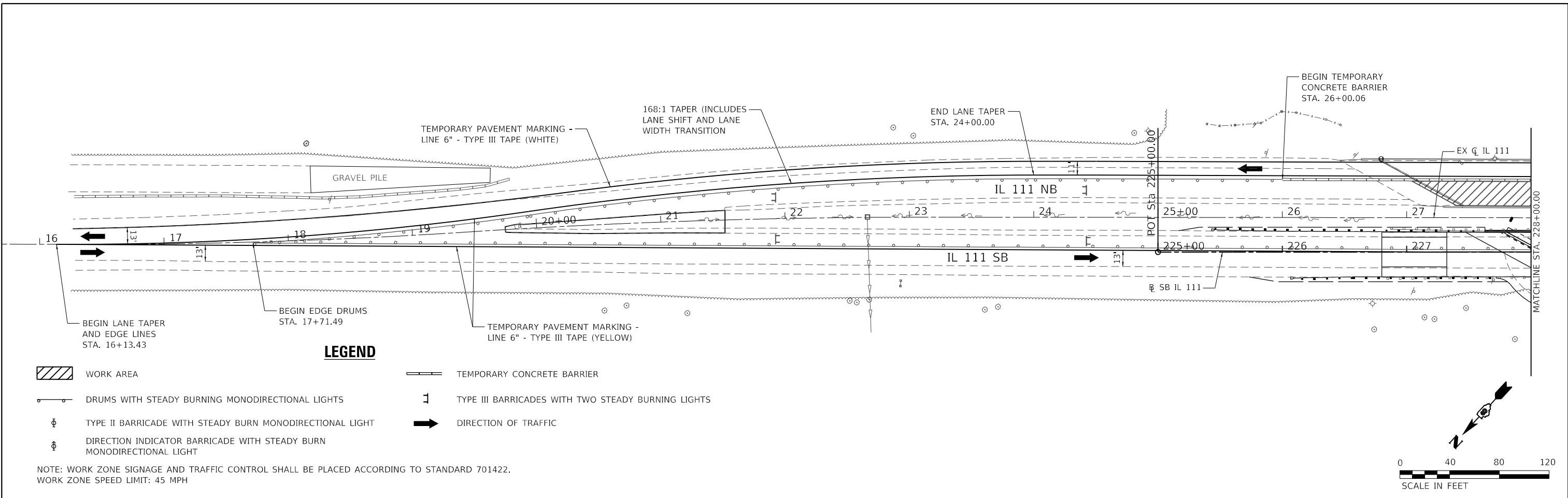
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 2**

SCALE: 1"=40' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	



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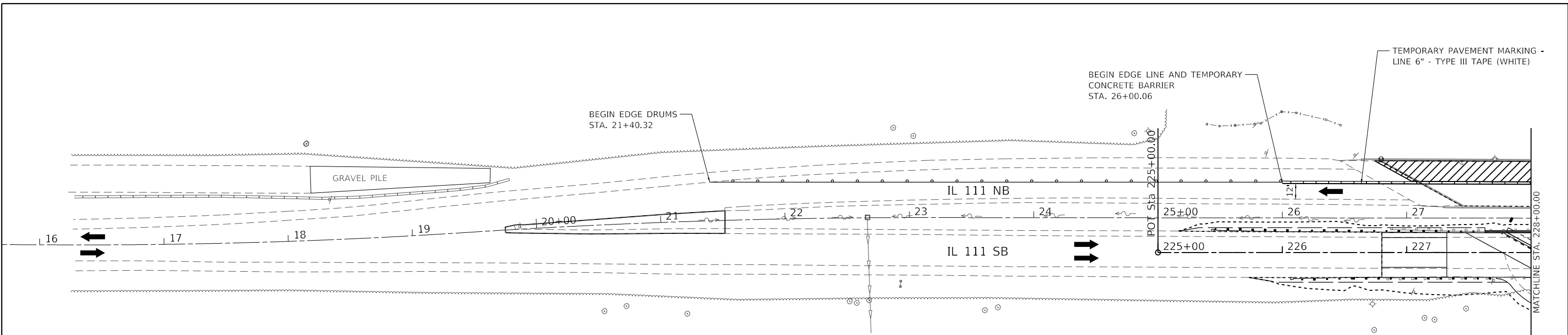
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 3**

SCALE: 1"=40' SHEET 1 OF 1 SHEETS STA. TO STA.

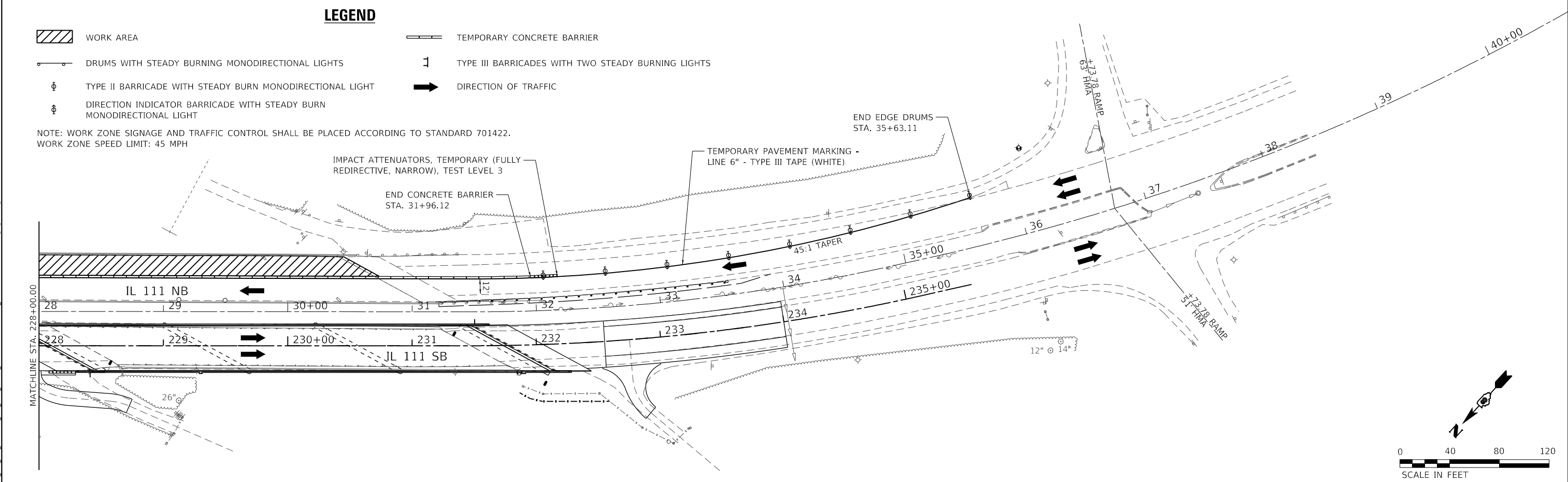
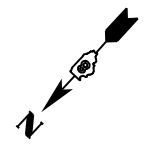
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	23
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK AREA
- DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHTS
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS
- DIRECTION OF TRAFFIC

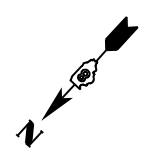
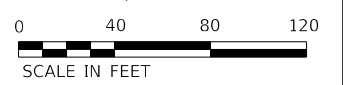
NOTE: WORK ZONE SIGNAGE AND TRAFFIC CONTROL SHALL BE PLACED ACCORDING TO STANDARD 701422.
WORK ZONE SPEED LIMIT: 45 MPH



LEGEND

- WORK AREA
- DRUMS WITH STEADY BURNING MONODIRECTIONAL LIGHTS
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADES WITH TWO STEADY BURNING LIGHTS
- DIRECTION OF TRAFFIC

NOTE: WORK ZONE SIGNAGE AND TRAFFIC CONTROL SHALL BE PLACED ACCORDING TO STANDARD 701422.
WORK ZONE SPEED LIMIT: 45 MPH



MODEL: D:\m\h\... FILE NAME: I:\3248_PTB_199_0218249_069_V066_IL_111_P11_Road_Plan\CAD_Sheets\18761619-sh-ct-3191p-004.dgn



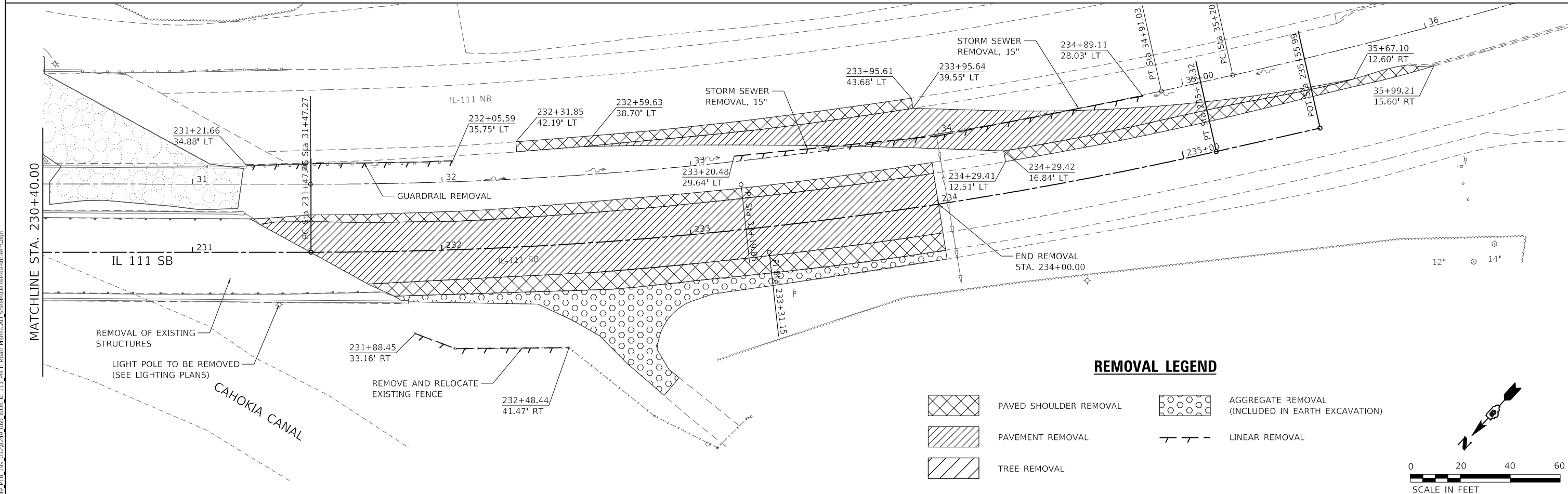
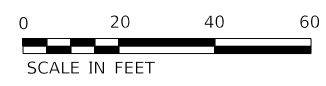
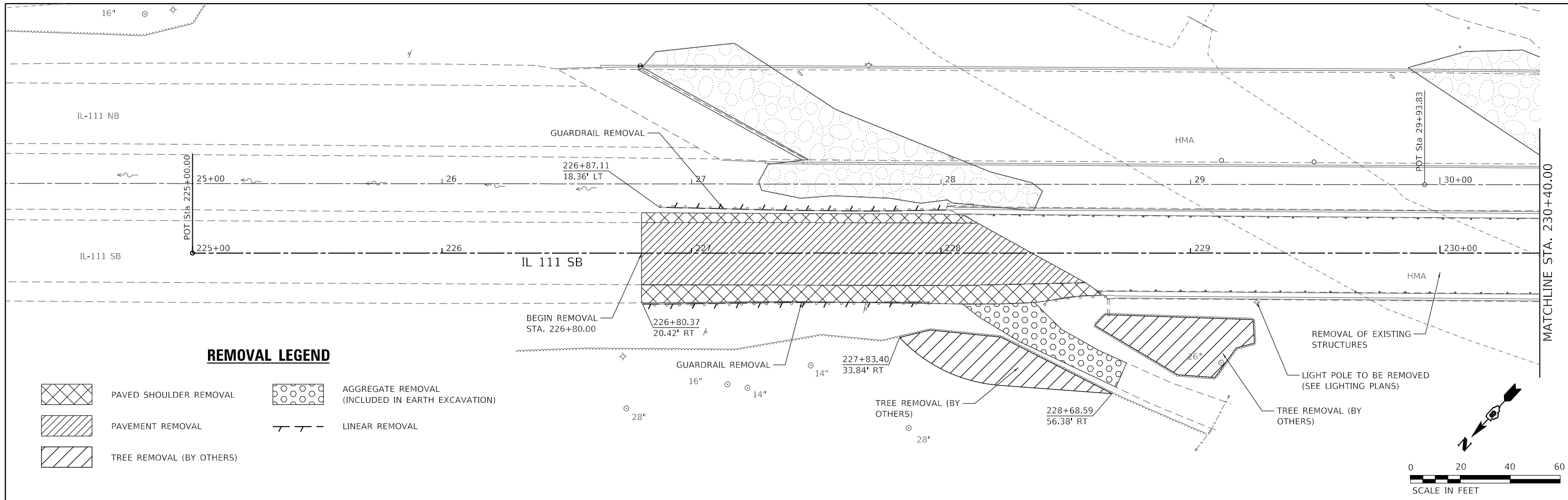
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 4**

SCALE: 1"=40' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	24
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



MODEL: D:\m\h\111\111_Plan\111_Plan_CAD_Sheets\111_Plan_CAD_Sheets.dwg
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 PLOT DATE: 10/17/2023



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PLOT DATE = 10/17/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	26
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

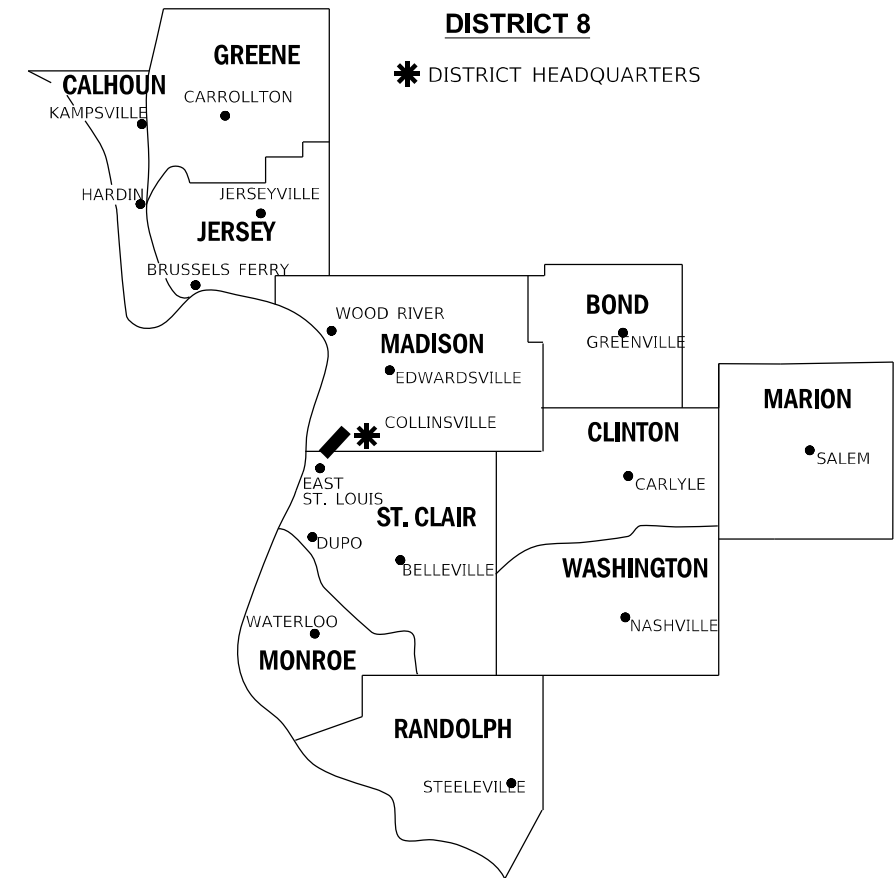
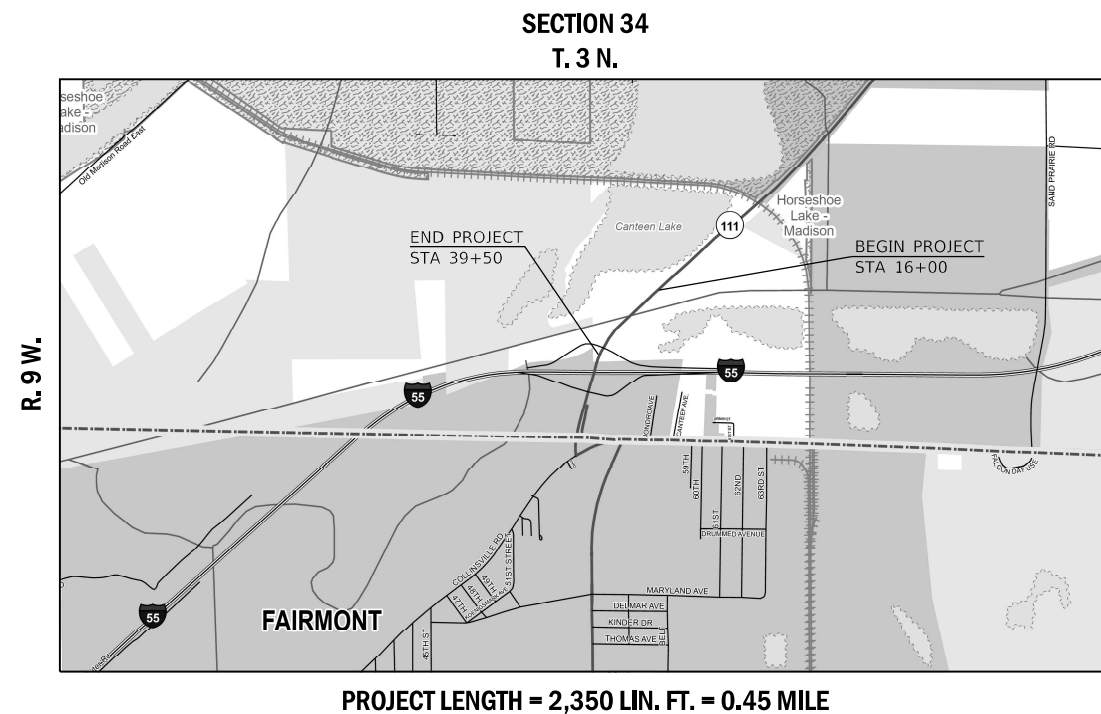
SHEET INDEX			
SHEET NO.	STATION TO STATION	DESCRIPTION	PARCELS
1	N/A	COVER SHEET	N/A
2	N/A	LEGEND & NOTES	N/A
3	24+45 TO 34+43	PLAT OF HIGHWAYS	8218011PE
4	24+45 TO 34+43	OVERALL LAYOUT	N/A
5	N/A	CONTROL POINT TIES	N/A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SPACE RESERVED FOR RECORDING OFFICER

PLAT OF HIGHWAYS

**FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
MADISON COUNTY
JOB NO. R-98-018-22**



LOCATION OF SECTION INDICATED THIS:

PREPARED BY:



PRAIRIE ENGINEERS, P.C.
404 NORTH MAIN STREET
COLUMBIA, ILLINOIS 62236
PHONE: (217) 605,0403
FAX #: (217) 718-4764
www.PrairieEngineers.com
PROFESSIONAL DESIGN FIRM
REGISTRATION No. 184-005965



KEVIN E. FLOOD, PLS No. 35-3444
LICENSE EXPIRATION DATE: 11/30/2024

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	27
FED. ROAD DIST. NO.			CONTRACT NO. 76H49	
ILLINOIS		FED. AID PROJECT		

JULY 14, 2023

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL GULFBOX	○	DRAINAGE FLOW LINE	
TRAFFIC SIGNAL HANDHOLE	○	RIP RAP	
TRAFFIC SIGNAL SIGNAL POST	○	HEADWALL	
TRAFFIC SIGNAL STEEL MAST ARM		CULVERT END SECTION	
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON	●	DRAINAGE MANHOLE	
TRAFFIC SIGNAL WOODEN POLE	○	INLET	
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY	▲	ROADWAY DITCH FLOW	
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET	■	VEGETATION LINE	
TRAFFIC SIGNAL JUNCTION BOX	□	STUMP	
TRAFFIC SIGNAL CONTROLLER	□	SHRUB	
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE	■	EVERGREEN TREE	
RAILROAD CANTILEVER MAST ARM		DECIDUOUS TREE	
RAILROAD CROSSBUCK		WOODS/BUSH LINE	
RAILROAD TRACK		TRAFFIC SIGN	
RAILROAD TRACK (ABANDONED)		GUARDRAIL POST	
RAILROAD CROSSGATE		GUARDRAIL	
RAILROAD CONTROL BOX		FIELD LINE	
RAILROAD FLASHING SIGNAL		LEVEE/NOISE BARRIER	
UTILITY TELEPHONE SPLICE BOX	⊕	FENCE	
UTILITY POWER POLE	⊕	MAIL BOX	
UTILITY TRAFFIC SIGNAL	⊕	ADVERTISING SIGN	
UTILITY LIGHT POLE	⊕	MARSH	
UTILITY FIRE HYDRANT	⊕	LIGHTING HANDHOLE	
UTILITY MANHOLE	⊕	LIGHTING POWER POLE	
UTILITY TELEPHONE POLE	⊕	LIGHTING JUNCTION BOX	
UTILITY GUY ANCHOR	⊕	LIGHTING HEAVYDUTY HANDHOLE	
UTILITY PIPELINE WARNING SIGN	⊕	LIGHTING CONTROLLER	
UTILITY HANDHOLE	⊕	LIGHTING PULL POINT	
UTILITY SPLICE BOX	⊕	HIGHWAY LIGHTING ELECTRICAL GROUND	
UTILITY JUNCTION BOX	⊕	HIGHWAY LIGHTING SINGLE UNIT	
UTILITY HEAVY DUTY HANDHOLE	⊕	HIGHWAY LIGHTING DOUBLE UNIT	
UTILITY DOUBLE HANDHOLE	⊕	EXISTING CONCRETE BARRIER	
UTILITY CONTROLLER	⊕	EXISTING CREEK OR DITCH	
UTILITY WATER METER	⊕	EXISTING EDGE OF PAVEMENT	

RIGHT-OF-WAY LEGEND

	SECTION CORNERS		QUARTER SECTION CORNERS
---	EXISTING CENTERLINE	---	EXISTING CENTERLINE
---	EXISTING RIGHT-OF-WAY LINE	---	EXISTING RIGHT-OF-WAY LINE
---	FORMER RIGHT-OF-WAY LINE	---	FORMER RIGHT-OF-WAY LINE
---	EXISTING IDOT EASEMENT LINE	---	EXISTING IDOT EASEMENT LINE
---	EXISTING EASEMENT LINE	---	EXISTING EASEMENT LINE
---	BUILDING SETBACK LINE	---	BUILDING SETBACK LINE
---	EXISTING ACCESS CONTROL LINE	---	EXISTING ACCESS CONTROL LINE
---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE	---	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
---	PROPOSED ACCESS CONTROL LINE	---	PROPOSED ACCESS CONTROL LINE
---	PROPOSED CENTERLINE	---	PROPOSED CENTERLINE
---	PROPOSED RIGHT-OF-WAY LINE	---	PROPOSED RIGHT-OF-WAY LINE
---	PROPOSED TEMPORARY EASEMENT LINE	---	PROPOSED TEMPORARY EASEMENT LINE
---	PROPOSED PERMANENT EASEMENT LINE	---	PROPOSED PERMANENT EASEMENT LINE
---	SECTION LINE	---	SECTION LINE
---	QUARTER SECTION LINE	---	QUARTER SECTION LINE
---	QUARTER QUARTER SECTION LINE	---	QUARTER QUARTER SECTION LINE
---	PROPERTY LINE (TITLE)	---	PROPERTY LINE (TITLE)
---	RECORDED PLAT/DEED LINE	---	RECORDED PLAT/DEED LINE
---	APPARENT PROPERTY LINE	---	APPARENT PROPERTY LINE
---	SAME OWNERSHIP	---	SAME OWNERSHIP
121.45'	MEASURED DIMENSION	121.45'	MEASURED DIMENSION
(121.45')	RECORDED DIMENSION	(121.45')	RECORDED DIMENSION
□	FOUND STONE	□	FOUND STONE
○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED	○	FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED	●	SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
⊕	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)	⊕	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
▲	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED	▲	SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
+	FOUND CUT CROSS	+	FOUND CUT CROSS
+	SET CUT CROSS	+	SET CUT CROSS

■ STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
ADD	ADDITION
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
CL	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
CONC	CONCRETE
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
N.K.A.	NOW KNOWN AS
NW	NORTHWEST
PB	PLAT BOOK
PE	PERMANENT EASEMENT
PG	PAGE
P.I.N.	PROPERTY INDEX NUMBER
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
PL	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
TYP	TYPICAL
USGS	U.S. GEOLOGICAL SURVEY
W	WEST
WD	WARRANTY DEED

PROPOSED PARCEL NUMBER LEGEND

8001001	PROPOSED FEE SIMPLE ACQUISITION
8001001PE	PROPOSED PERMANENT EASEMENT
8001001TE	PROPOSED TEMPORARY EASEMENT
8001001DED	PROPOSED DEDICATION
8001001AC	PROPOSED ACCESS CONTROL LINE

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
T	TANGENT LENGTH
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

BASIS OF COORDINATE & BEARING STATEMENT

THE COORDINATES AND BEARINGS FOR THIS SURVEY ARE BASED ON THE PROJECT SURVEY CONTROL DATA THAT THE ILLINOIS DEPARTMENT OF TRANSPORTATION (DEPARTMENT) ESTABLISHED AND PROVIDED TO THE SURVEYOR, WHICH IS A "GROUND SURFACE COORDINATE SYSTEM" PREPARED SPECIFICALLY FOR THIS PROJECT.

THE CONTROL POINTS UTILIZED ON THIS PROJECT AND THEIR ASSOCIATED COORDINATES, AS PROVIDED BY THE DEPARTMENT, ARE LISTED IN THE TABLE BELOW.

THIS "GROUND SURFACE COORDINATE SYSTEM" WAS DERIVED FROM THE DEPARTMENT'S INITIAL CONTROL SURVEY WHICH ESTABLISHED STATE PLANE COORDINATE SYSTEM (SPCS) VALUES FOR EACH OF THE CONTROL POINTS BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1202, NAD83 (CORS96, EPOCH 2002.00). TO CREATE THE PROJECT "GROUND SURFACE COORDINATE SYSTEM", THE DEPARTMENT MADE THE FOLLOWING TWO ADJUSTMENTS TO THE SPCS VALUES:

- ADJUSTED THE STATE PLANE COORDINATES TO A GROUND COORDINATE SYSTEM BY DIVIDING THE SPCS VALUES BY THE COMBINATION FACTOR UTILIZED FOR THIS PROJECT WHICH IS 0.9999265016.
- SUBTRACTED 2,000,000 FROM THE ADJUSTED EASTING VALUES TO DISTINGUISH A UNIQUE DIFFERENCE BETWEEN THE GROUND SYSTEM COORDINATES FROM THE SPCS COORDINATES.

**PROJECT SURVEY CONTROL DATA
GROUND SURFACE COORDINATE SYSTEM**

COORDINATES PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION JOB NO. D-98-044-11 / CONTRACT NO. 76E84				
POINT NO.	NORTH (FEET)	EAST (FEET)	ELEVATION	DESCRIPTION
10	727,295.5899	317,966.7258	414.59	IRON PIN W/ ALUMINUM CAP
11	727,699.5100	318,207.8417	415.99	IRON PIN W/ ALUMINUM CAP
12	728,012.9856	318,692.6820	415.02	IRON PIN W/ ALUMINUM CAP
13	728,613.2552	319,282.9262	411.38	IRON PIN W/ ALUMINUM CAP

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON.

STATE OF IOWA)
) SS
COUNTY OF LEE)

I, KEVIN E. FLOOD, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
KEVIN E. FLOOD, PLS No. 35-3444
LICENSE EXPIRATION DATE: 11/30/2024



PREPARED BY:



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 582 (IL 111)
SECTION 6-23B-1
MADISON COUNTY
JOB NO. R-98-018-22
LEGEND AND GENERAL NOTES

SHEET 2 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	28
			CONTRACT NO. 76H49	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
34+42.53	159.18' RT	727,575.2791	317,952.4381	SW CORNER P.E.
29+04.83	126.00' RT	727,956.1377	318,370.9269	NW CORNER P.E.
24+45.50	126.06' LT	728,081.1569	318,879.7327	NE CORNER P.E.
30+11.35	123.53' LT	727,700.2983	318,461.2439	SE CORNER P.E.
16+13.37	0.00' RT	728,753.1020	319,391.7763	PC
17+78.92	2.89' RT	728,641.5565	319,269.3618	PI
19+44.46	0.00' LT	728,521.7368	319,155.0336	PRC
21+30.03	3.06' LT	728,387.4334	319,026.8855	PI
23+15.59	0.00' RT	728,261.8759	318,890.1571	PT
31+47.27	0.00' RT	727,699.3465	318,277.5790	PC
33+19.15	9.50' RT	727,582.6196	318,150.4668	PI
34+91.03	0.00' RT	727,440.9675	318,051.8903	PT
35+20.39	0.00' LT	727,416.8735	318,035.1231	PC
38+40.08	27.93' RT	727,151.8313	317,850.6786	PI
41+59.77	0.00' RT	726,840.0184	317,766.7744	PT
16+00.00	0.00' RT	728,762.1078	319,401.6596	BEGIN PROJECT
39+50.00	0.00' RT	727,039.0698	317,832.6213	END PROJECT
---	---	725,656.6350	317,803.0640	SW CORNER SEC 34
---	---	730,818.6020	317,687.9820	NW CORNER SEC 34

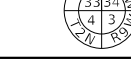
N01°16'38"W 709.47'
W LINE SW 1/4, SEC 34, T3N, R9W

P.I.N. 17-1-20-34-00-000-008

N76°11'43"E 196.79'
EX RIGHT OF WAY
TRACT 6-1" US 55 RAMP
WD BK. 1999, PG. 622-623

S34°50'03"W 29.35'
PC STA 35+20.39
FND 5/8" REBAR
S16°19'42"E, 0.10'

POC 8218011PE
S.W. CORNER, SEC. 34,
T.3N., R.9W., 3rd P.M.
FND MAG SPIKE
MONUMENT RECORD
DOC. 2022R15150



PR Q OF CONSTRUCTION
FAP RTE 582 (IL RTE 111)

STA 29+04.83
126.00' RT

EX BRIDGE AGREEMENT
BK 468, PG 219

SN 0600127

SN 0600244

STA 30+11.35
123.53' LT

STA 31+00.47
123.13' LT

PC STA 31+47.27
FND 5/8" REBAR
S53°54'30"E, 0.12'

PT STA 34+91.03
FND 5/8" REBAR
N14°32'37"W, 0.07'

STA 35+01.94, 124.75' LT
FND CONC ROW MONUMENT
N65°06'18"W, 3.47'

CURVE C1
PI STA. = 38+43.29
Δ = 19°46'25" (LT)
T = 322.90'
L = 639.39'
R = 1,852.68'
C = 636.22'
C.B. = S 24°56'51" W
P.C. STA. = 35+20.39
P.T. STA. = 41+59.77

CURVE C2
PI STA. = 33+19.85
Δ = 12°36'16" (LT)
T = 172.58'
L = 343.76'
R = 1,562.62'
C = 343.07'
C.B. = S 41°08'12" W
P.C. STA. = 31+47.27
P.T. STA. = 34+91.03

CURVE C3
PI STA. = 21+30.09
Δ = 03°46'56" (RT)
T = 185.63'
L = 371.13'
R = 5,622.00'
C = 371.06'
C.B. = S 45°32'52" W
P.C. STA. = 19+44.46
P.T. STA. = 23+15.59

STATE OF IOWA)
COUNTY OF LEE) SS

I, KEVIN E. FLOOD, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
KEVIN E. FLOOD, PLS No. 35-3444
LICENSE EXPIRATION DATE: 11/30/2024



Prairie Engineers
ENGINEERS · SURVEYORS · SCIENTISTS
PRAIRIE ENGINEERS, P.C.
404 NORTH MAIN STREET
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FAX #: (217) 718-4764
www.PrairieEngineers.com
PROFESSIONAL DESIGN FIRM
REGISTRATION No. 184-005965

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
MADISON COUNTY
JOB NO. R-98-018-22
STATION 23+00 TO STATION 37+00

50' 0 50' 100'
SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	29

CONTRACT NO. 76H49
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PARCEL NO.	OWNER	TOTAL HOLDING		EASEMENTS	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY DOCUMENT NO.
		ACRES	SQ FT			
8218011PE	METRO EAST SANITARY DISTRICT WHICH ACQUIRED TITLE AS THE EAST SIDE LEVEE AND SANITARY DISTRICT, A MUNICIPAL CORPORATION	23.58	141,464	PE 3,2476 PE 141,464	17-1-20-34-00-000-008(pt)	

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 12/14/2022
ROW STAKING: _____

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

NW CORNER SEC 34, T3N, R9W, 3rd P.M.
FND STONE WITH PIN & ALUMINUM CAP STAMPED TO IDENTIFY THE CORNER AS WITNESS PER PLAT OF SURVEY BY HURST-ROSCHÉ DATED 1/29/02 MONUMENT RECORD DOC 2023R-01558

W 1/4 CORNER, SEC 34, T3N, R9W, 3rd P.M.
COMPUTED LOCATION



SPACE RESERVED FOR RECORDING OFFICER

CURVE C3
PI STA. = 21+30.09
Δ = 03°46'56" (RT)
T = 185.63'
L = 371.13'
R = 5,622.00'
C = 371.06'
C.B. = S 45°32'52" W
P.C. STA. = 19+44.46
P.T. STA. = 23+15.59

CURVE C4
PI STA. = 17+78.98
Δ = 04°00'12" (LT)
T = 165.61'
L = 331.09'
R = 4,738.54'
C = 331.02'
C.B. = S 45°39'29" W
P.C. STA. = 16+13.37
P.T. STA. = 19+44.46

PR C OF CONSTRUCTION
FAP RTE 582 (IL RTE 111)

CAHOKIA CANAL

CENTER OF SEC 34,
T3N, R9W, 3rd P.M.
COMPUTED LOCATION
PER ROW PLANS
JUNK YARD NO. 32

COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
34+42.53	159.18' RT	727,575.2791	317,952.4381	SW CORNER P.E.
29+04.83	126.00' RT	727,956.1377	318,370.9269	NW CORNER P.E.
24+45.50	126.06' LT	728,081.1569	318,879.7327	NE CORNER P.E.
30+11.35	123.53' LT	727,700.2983	318,461.2439	SE CORNER P.E.
16+13.37	0.00' RT	728,753.1020	319,391.7763	PC
17+78.92	2.89' RT	728,641.5565	319,269.3618	PI
19+44.46	0.00' LT	728,521.7368	319,155.0336	PRC
21+30.03	3.06' LT	728,387.4334	319,026.8855	PI
23+15.59	0.00' RT	728,261.8759	318,890.1571	PT
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33+19.15	9.50' RT	727,582.6196	318,150.4668	PI
34+91.03	0.00' RT	727,440.9675	318,051.8903	PT
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38+40.08	27.93' RT	727,151.8313	317,850.6786	PI
41+59.77	0.00' RT	726,840.0184	317,766.7744	PT
16+00.00	0.00' RT	728,762.1078	319,401.6596	BEGIN PROJECT
39+50.00	0.00' RT	727,039.0698	317,832.6213	END PROJECT
---	---	725,656.6350	317,803.0640	SW CORNER SEC 34
---	---	730,818.6020	317,687.9820	NW CORNER SEC 34

I-55 S / I-70 W
ON RAMP

I-55 S / I-70 W
OFF RAMP

CURVE C1
PI STA. = 38+43.29
Δ = 19°46'25" (LT)
T = 322.90'
L = 639.39'
R = 1,852.68'
C = 636.22'
C.B. = S 24°56'51" W
P.C. STA. = 35+20.39
P.T. STA. = 41+59.77

CURVE C2
PI STA. = 33+19.85
Δ = 12°36'16" (LT)
T = 172.58'
L = 343.76'
R = 1,562.62'
C = 343.07'
C.B. = S 41°08'12" W
P.C. STA. = 31+47.27
P.T. STA. = 34+91.03

STATE OF IOWA)
COUNTY OF LEE) SS

I, KEVIN E. FLOOD, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
KEVIN E. FLOOD, PLS No. 35-3444
LICENSE EXPIRATION DATE: 11/30/2024



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ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
MADISON COUNTY
JOB NO. R-98-018-22
OVERALL LAYOUT

SCALE: 1" = 100'

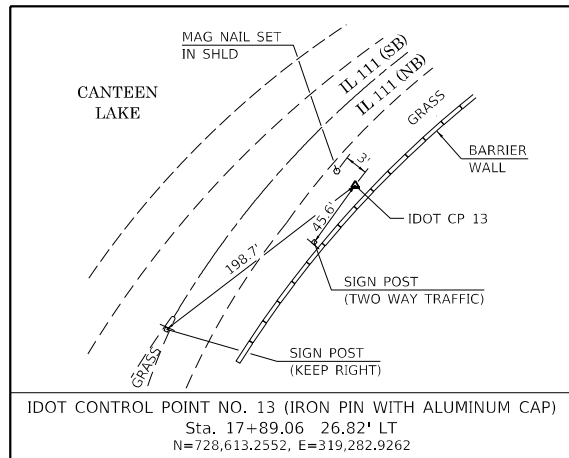
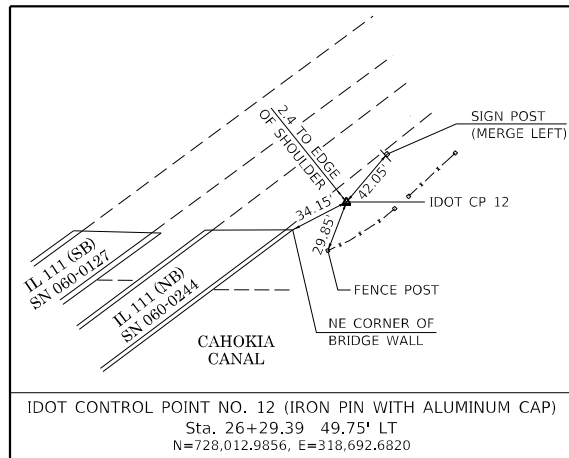
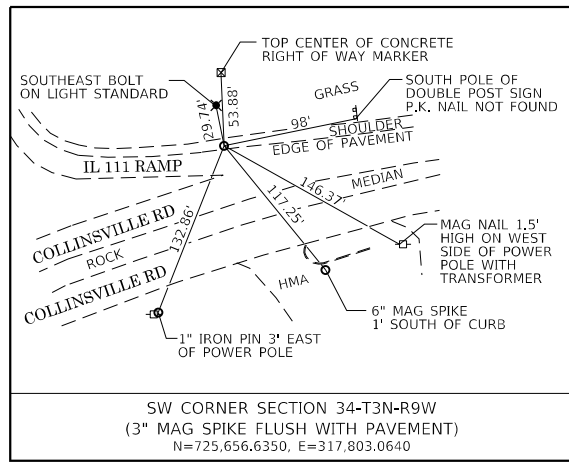
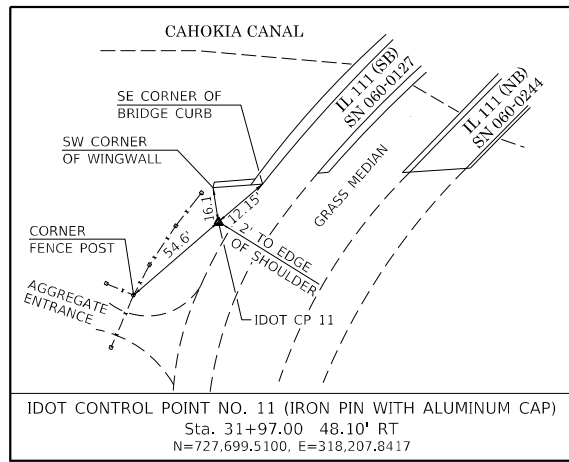
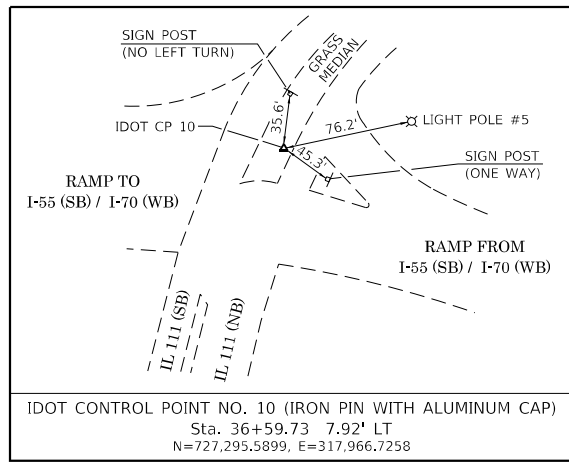
SHEET 4 OF 5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	30

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

COMPLETION DATE OF FIELD WORK PERFORMED _____
LAND SURVEY: 12/14/2022 ROW STAKING: _____
FED. ROAD DIST. NO. _____ ILLINOIS _____ FED. AID PROJECT _____

SURVEY CONTROL TIE SHEET



CURVE C3
PI STA. = 21+30.09
 $\Delta = 3^\circ 46' 56''$ (RT)
T = 185.63'
L = 371.13'
R = 5,622.00'
C = 371.06'
C.B. = S 45°32'52" W
P.C. STA. = 19+44.46
P.T. STA. = 23+15.59

CURVE C4
PI STA. = 17+78.98
 $\Delta = 4^\circ 00' 12''$ (LT)
T = 165.61'
L = 331.09'
R = 4,738.54'
C = 331.02'
C.B. = S 45°39'29" W
P.C. STA. = 16+13.37
P.T. STA. = 19+44.46



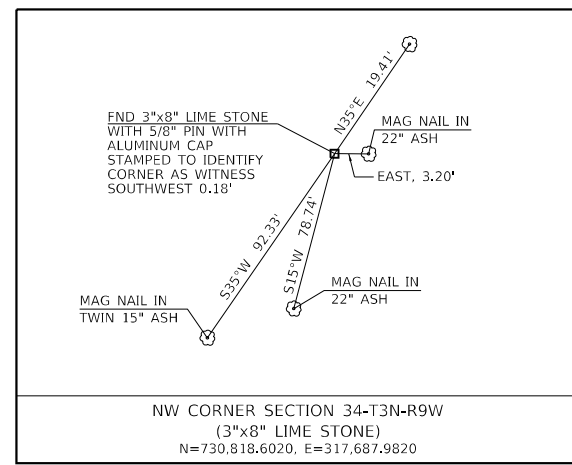
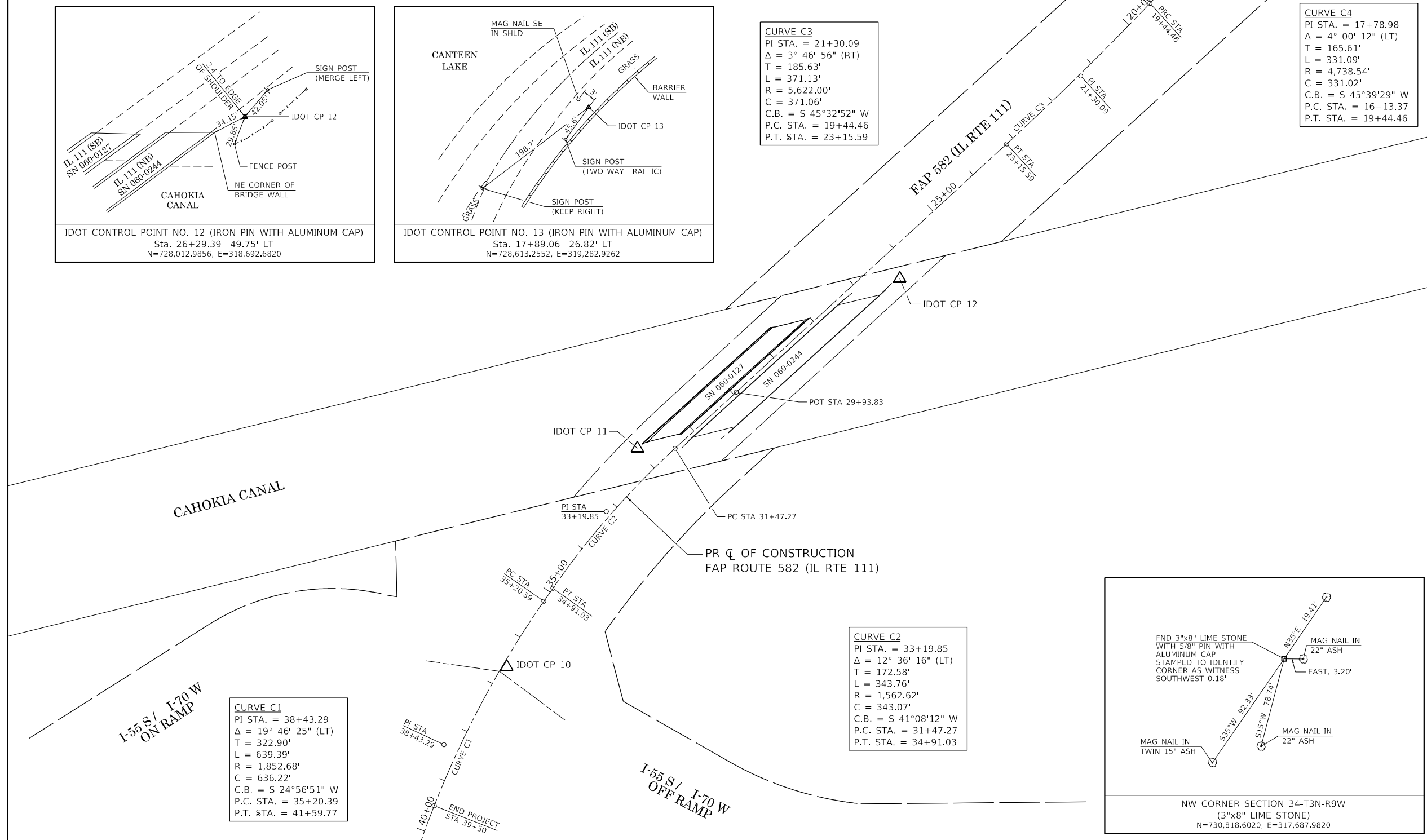
SPACE RESERVED FOR RECORDING OFFICER

STATE OF IOWA)
COUNTY OF LEE) SS

I, KEVIN E. FLOOD, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

KEVIN E. FLOOD, PLS No. 35-3444
LICENSE EXPIRATION DATE: 11/30/2024



CURVE C2
PI STA. = 33+19.85
 $\Delta = 12^\circ 36' 16''$ (LT)
T = 172.58'
L = 343.76'
R = 1,562.62'
C = 343.07'
C.B. = S 41°08'12" W
P.C. STA. = 31+47.27
P.T. STA. = 34+91.03

CURVE C1
PI STA. = 38+43.29
 $\Delta = 19^\circ 46' 25''$ (LT)
T = 322.90'
L = 639.39'
R = 1,852.68'
C = 636.22'
C.B. = S 24°56'51" W
P.C. STA. = 35+20.39
P.T. STA. = 41+59.77

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 12/14/2022 ROW STAKING:

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
MADISON COUNTY
JOB NO. R-98-018-22
SURVEY CONTROL TIE SHEET

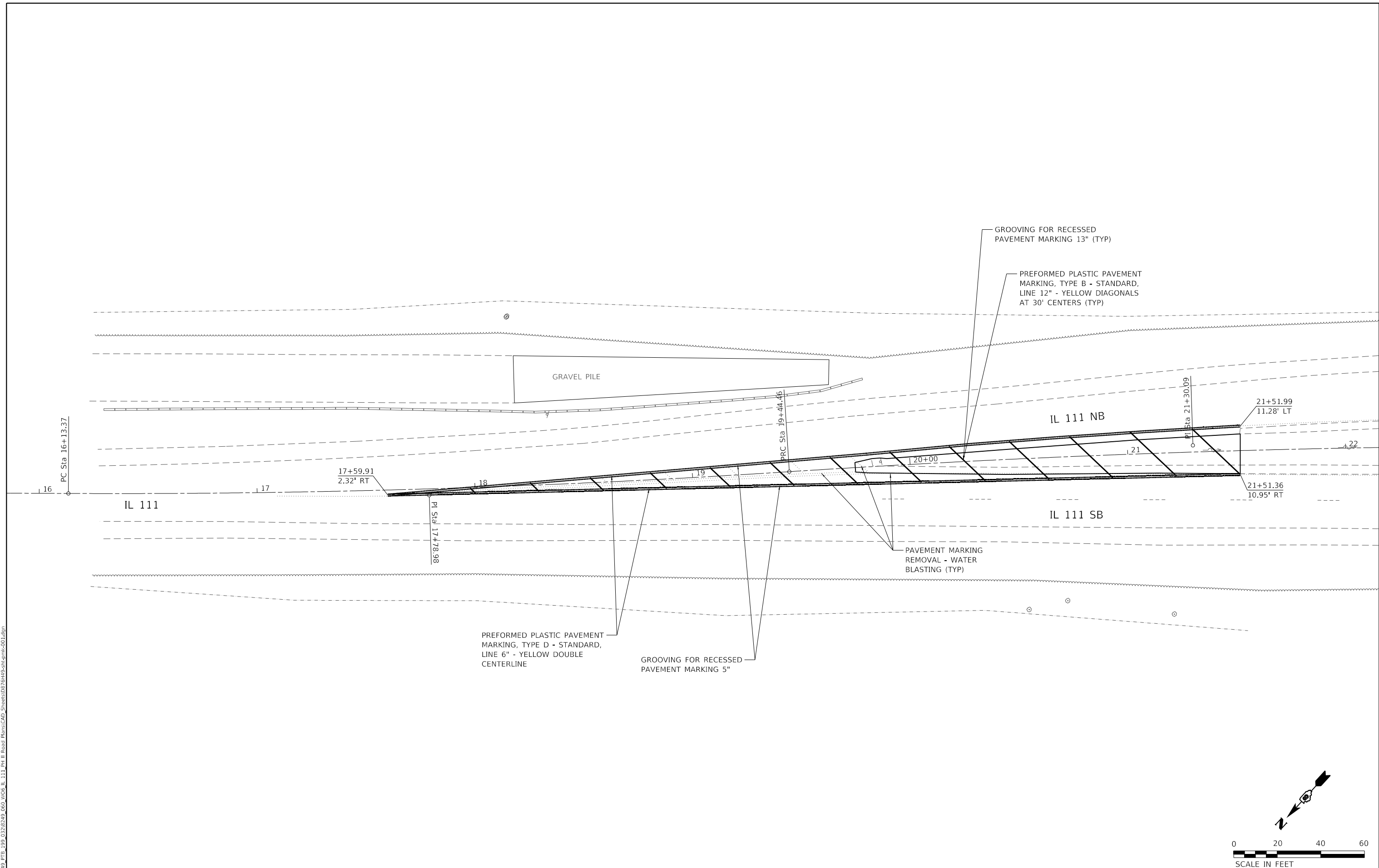
NOT TO SCALE SHEET 5 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	31
				CONTRACT NO. 76H49

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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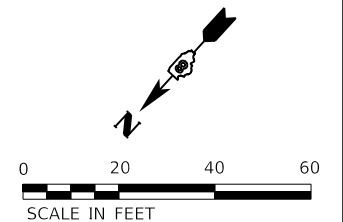
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

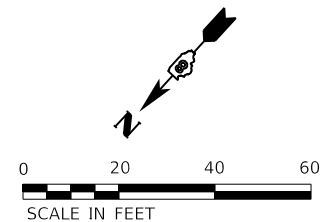
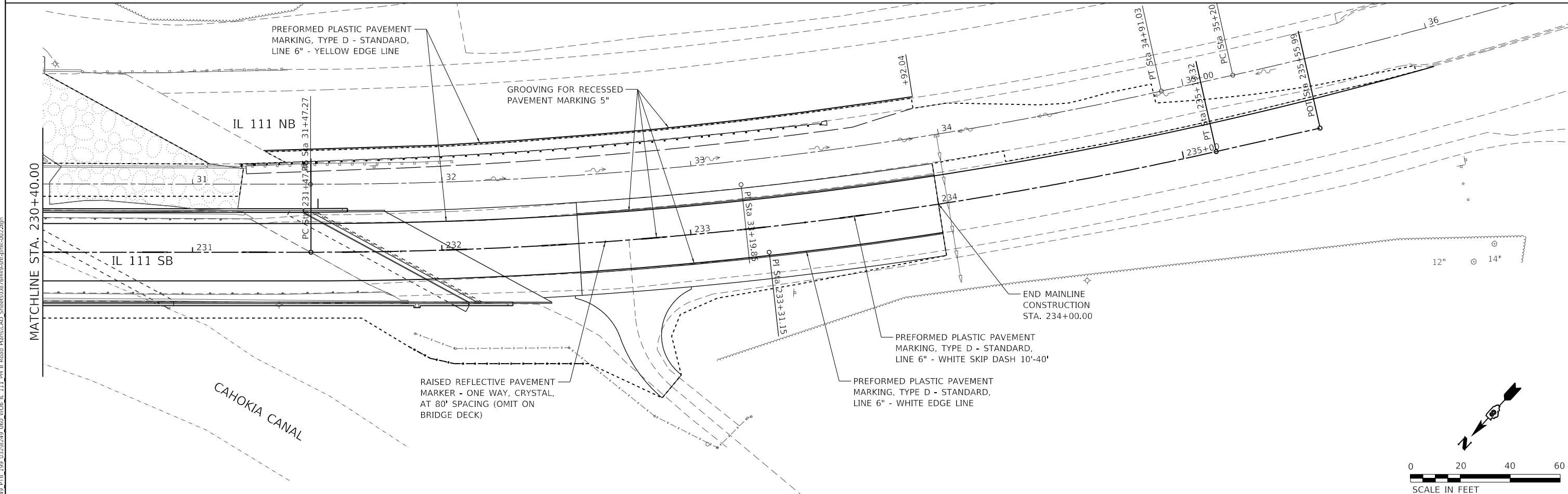
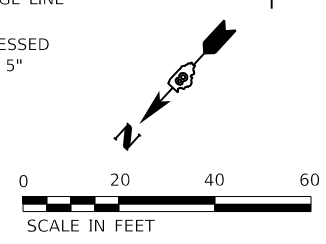
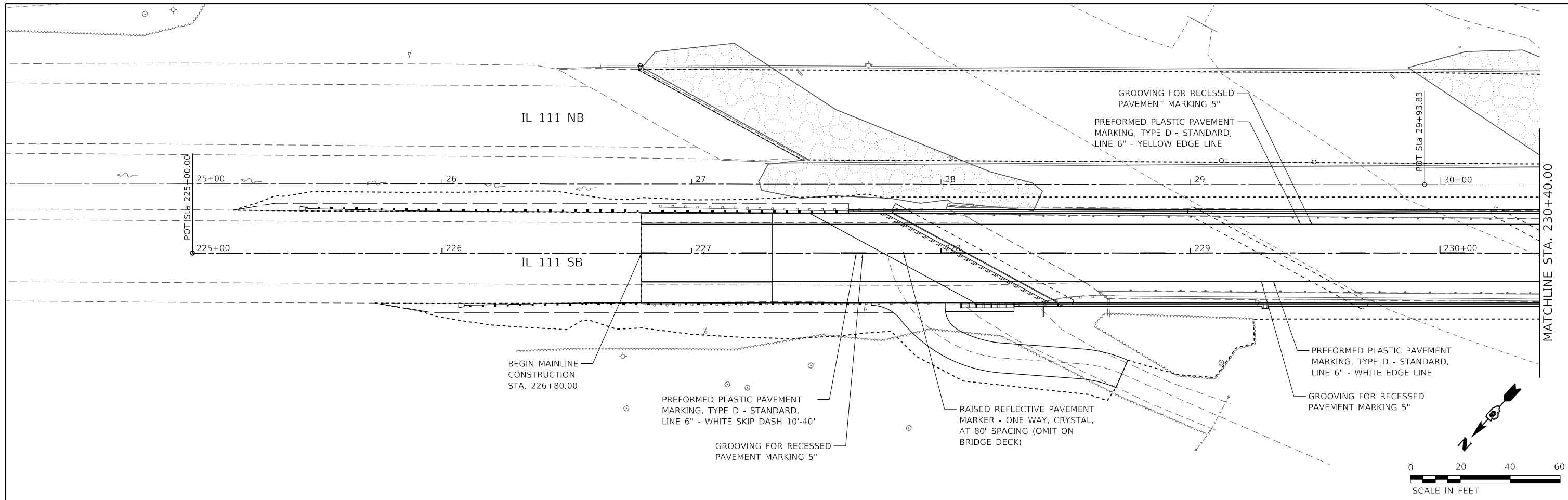
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	32
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				





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USER NAME = tkruop	DESIGNED - TAK	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - TAK	REVISED -
PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	33
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

LIGHTING GENERAL NOTES:

- THIS PROJECT INCLUDES THE INSTALLATION OF NEW LIGHTING TO REPLACE THE EXISTING LIGHTING IMPACTED BY THE RECONSTRUCTION OF THE SB BRIDGE. THE EXISTING LIGHTING UNIT ON THE NB BRIDGE SHALL BE UPGRADED ALONG WITH THE TWO LIGHT POLES ADJACENT TO THE BRIDGE. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS.
- THE EXISTING LIGHTING IS CONNECTED TO AN EXISTING LIGHTING CONTROLLER AT THE INTERSECTION OF IL 111 AND COLLINSVILLE RD. THE PROPOSED LIGHTING SHALL BE RECONNECTED TO THE EXISTING SYSTEM.
- THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING ANY CONSTRUCTION WORK.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- GROUND RODS SHALL BE INSTALLED AT EACH GROUND MOUNTED LIGHT POLE.










BILL OF MATERIALS

DESCRIPTION	UNIT	QTY
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	300
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"x6"	EACH	4
UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	950
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	725
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 4	FOOT	725
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	6
LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. MAST ARM	EACH	6
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	40
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	4
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	6

HIGHWAY STANDARDS

812001-01	RACEWAYS EMBEDDED IN STRUCTURE
821101-02	LUMINAIRE WIRING IN POLE
830001-03	LIGHT POLE ALUMINUM MAST ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES

LEGEND

-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO BE REMOVED
-  EXISTING LIGHTING UNIT TO BE REMOVED AND REPLACED
-  PROPOSED GROUND MOUNTED LIGHTING UNIT, 50 FT. MH, 15 FT. MAST ARM, LED LUMINAIRE, OUTPUT DESIGNATION H, WITH BREAKAWAY DEVICE
-  PROPOSED BRIDGE MOUNTED LIGHTING UNIT, 50 FT. MH, 15 FT. MAST ARM, LED LUMINAIRE, OUTPUT DESIGNATION H
-  UNIT DUCT, 2-1C NO.4, 1/C NO.6 GROUND, 1 1/4" DIA. POLYETHYLENE
-  CONDUIT EMBEDDED IN STRUCTURE (ELECTRICAL CABLE WITHIN)
-  GROUND ROD
-  JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"x6"

LT-01

MODEL: Default
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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

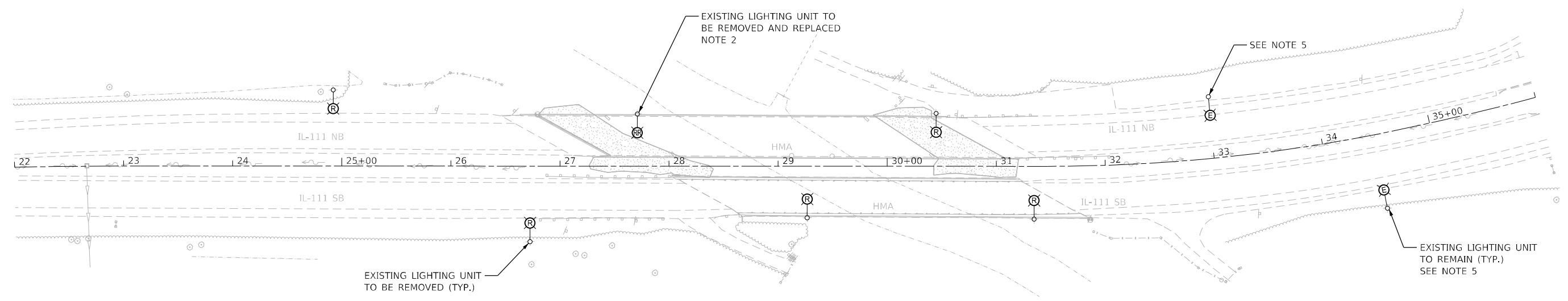
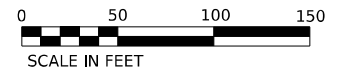
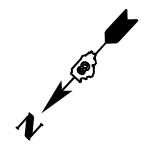
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PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING GENERAL NOTES, BILL OF MATERIALS AND LEGEND
 IL 111 OVER CAHOKIA CANAL

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	35
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE SHEET LT-01.
2. THE EXISTING LIGHT POLE ON THE NB BRIDGE SHALL BE REMOVED AND THE NEW LIGHTING UNIT SHALL BE INSTALLED ON THE EXISTING FOUNDATION.
3. THE REMOVAL OF LIGHT POLES SHALL BE COORDINATED WITH BRIDGE WORK STAGING SO THAT EITHER EXISTING LIGHTING OR PROPOSED LIGHTING IS OPERATIONAL THROUGHOUT CONSTRUCTION.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND NOT SALVAGED PER STANDARD SPECIFICATIONS.
5. CONNECTED TO EXISTING CIRCUIT. THIS CIRCUIT IS CONNECTED TO EXISTING LIGHTING CONTROLLER ON COLLINSVILLE RD. SEE THE AS-BUILTS ON LT-04.

MODEL: Default
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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

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	DRAWN - MD	REVISED -
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PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

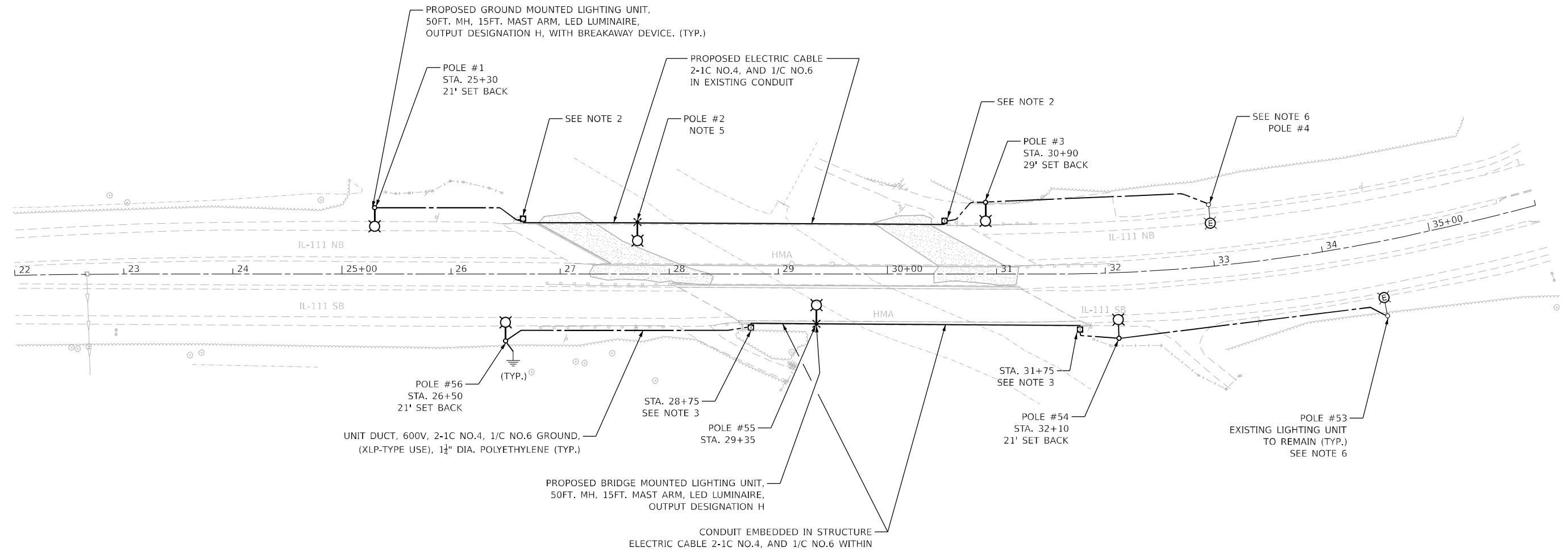
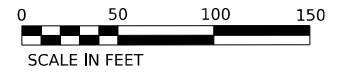
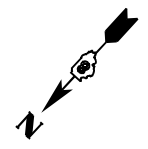
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL LIGHTING PLAN
IL 111 OVER CAHOKIA CANAL

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 36
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

LT-02



NOTES:

1. FOR GENERAL NOTES AND LEGEND SEE SHEET LT-01.
2. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND INSTALL THE JUNCTION BOX ATTACHED TO STRUCTURE TO INTERCEPT THE EXISTING CONDUIT FROM THE LIGHTING UNIT ON THE BRIDGE (SEE SHEET LT-05, PLAN AND SECTION B-B FOR CONDUIT ROUTING FROM THE LIGHTING UNIT). A CONDUIT RACEWAY SHALL BE INSTALLED FROM THE JUNCTION BOX FOR THE NEW UNIT DUCT FROM THE PROPOSED LIGHTING UNIT.
3. JUNCTION BOXES SHALL BE INSTALLED AT EACH END OF THE SB BRIDGE STRUCTURE TO TRANSITION FROM UNIT DUCT TO THE ELECTRIC CABLE IN THE EMBEDDED CONDUIT.
4. SET BACK IS FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF LIGHT POLE.
5. PROPOSED LIGHTING UNIT INSTALLED ON EXISTING LIGHT POLE FOUNDATION ON BRIDGE.
6. CONNECT TO EXISTING CIRCUIT. THIS CIRCUIT IS CONNECTED TO EXISTING LIGHTING CONTROLLER ON COLLINSVILLE RD. SEE THE AS-BUILTS ON LT-04.

MODEL: Default
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 PLOT DATE: 10/10/2023

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

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DRAWN - MD	REVISIONS -	
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PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

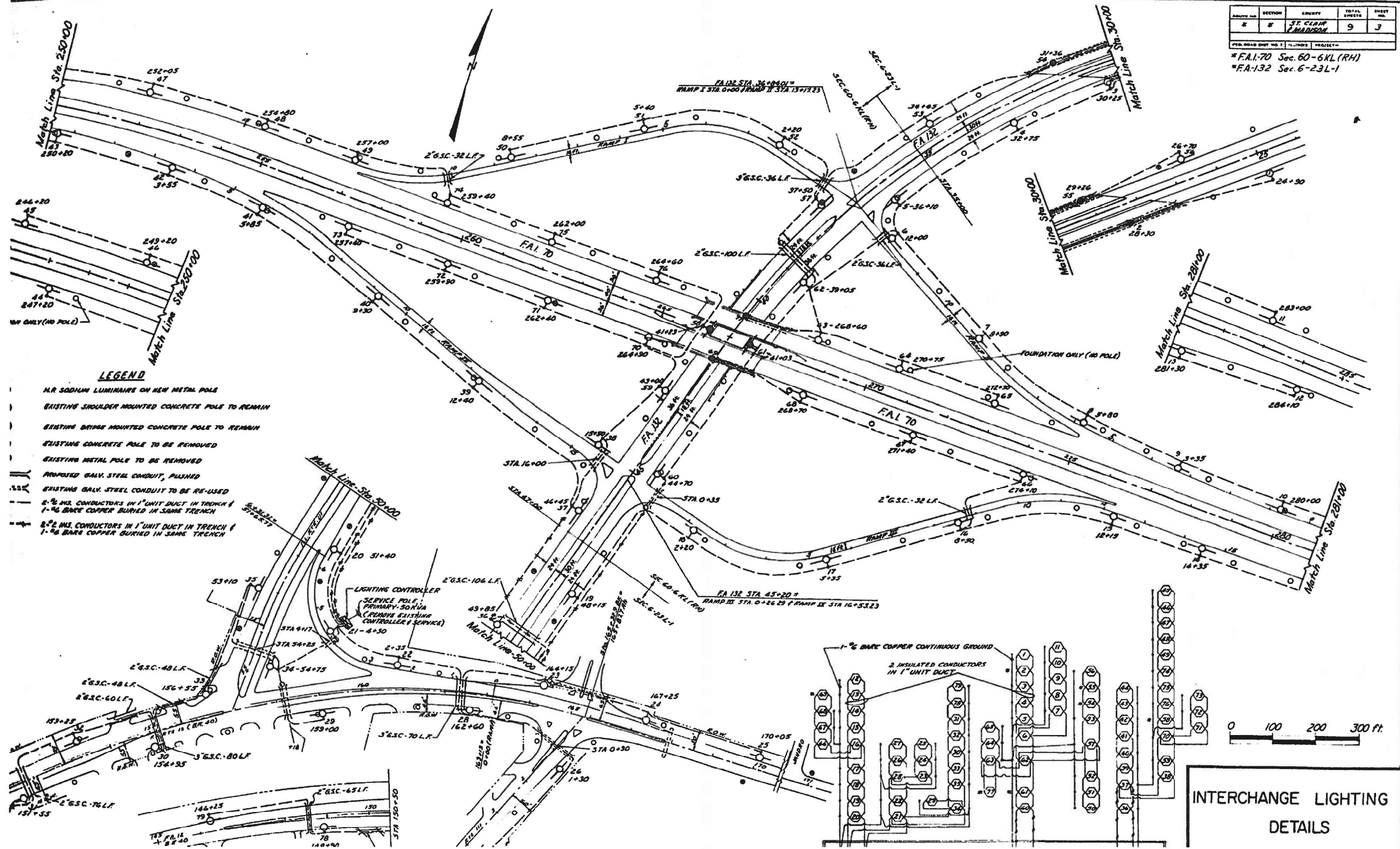
PROPOSED LIGHTING PLAN
IL 111 OVER CAHOKIA CANAL

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

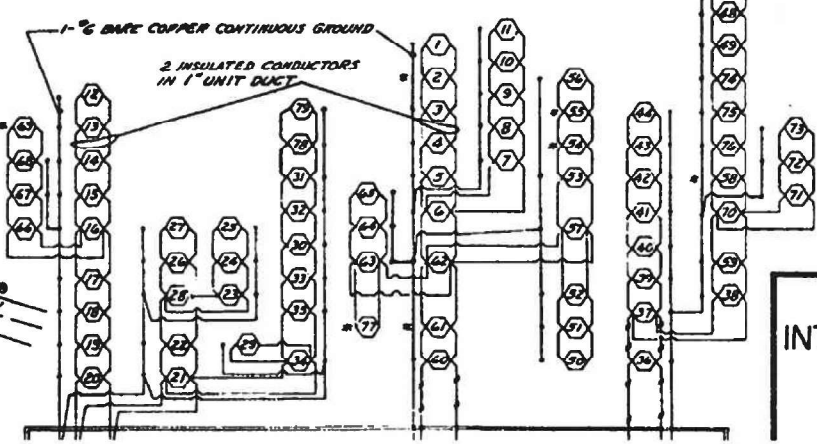
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	37
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6	6	ST. CLAIR / MADISON	9	3

PER. ROAD DIST. NO. 1 ILLINOIS PROJECT:
 * F.A.I.-70 Sec. 60-6KL (RH)
 * F.A.I.-132 Sec. 6-23L-1



- LEGEND**
- NR SODIUM LUMINAIRE ON NEW METAL POLE
 - EXISTING SHOULDER MOUNTED CONCRETE POLE TO REMAIN
 - EXISTING BRIDGE MOUNTED CONCRETE POLE TO REMAIN
 - EXISTING CONCRETE POLE TO BE REMOVED
 - EXISTING METAL POLE TO BE REMOVED
 - PROPOSED GALV. STEEL CONDUIT, PULSED
 - EXISTING GALV. STEEL CONDUIT TO BE RE-USED
 - 2 #2 W.G. CONDUCTORS IN 1" UNIT DUCT IN TRENCH & 1-#6 BARE COPPER BURIED IN SAME TRENCH
 - 2 #2 W.G. CONDUCTORS IN 1" UNIT DUCT IN TRENCH & 1-#6 BARE COPPER BURIED IN SAME TRENCH



INTERCHANGE LIGHTING DETAILS

FOR INFORMATION ONLY

MODEL: D:\default... AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeltche	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AS BUILTS IL 111 OVER CAHOKIA CANAL			F.A.P. RTE. = 582	SECTION = 6-23B-1	COUNTY = MADISON	TOTAL SHEETS = 90	SHEET NO. = 38
	PLOT SCALE = 0.057 1/4 in.	CHECKED - MH	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 76H49 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 10/10/2023	DATE = 08-11-23	REVISED -									

LT-04



Luminaire Performance Table



Project

Date	Contract Number	Section Number	County
07/10/23	76H49	6-23B-1	Madison
Marked Route Number		Municipality	
IL 111			

Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12ft	2	30	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
50ft	15ft	21ft	

Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
LED Roadway, Output Designation H	Type II or III	Medium	
Total Light Loss Factor (LLF)	B-U-G Rating	Shields	Dimming Protocol
0.7	U=0	N/A	0-10V

Layout

Spacing (to Nearest 5 ft)	Configuration (Opposite, Staggered, 1 Sided, or Median)
240ft	Two Rows, Staggered

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}		
N/A	N/A		
Average Luminance, L_{AVE} (cd/m ²)	Uniformity Ratio, L_{AVE}/L_{MIN}	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_v/L_{AVE}
1.0	2.0	3.0	less than or equal to 0.3:1

Light Tresspass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E_H	Max. Vertical Illuminance at ROW, E_v
N/A	N/A	N/A

Notes

- Set-Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
- Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
- Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
- Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

Compliance with performance criteria shall be held to one significant digit.

Printed 07/10/23

BDE 5630 (04/10/19)

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	DRAWN - MD	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE PERFORMANCE TABLE
IL 111 OVER CAHOKIA CANAL

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	40
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

LT-06

BENCHMARK: **BM1:** Top of Barrier
SB 111 Sta 226+79.48,
74.93' Lt
EI 418.86

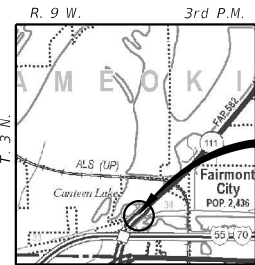
BM2: Top of Wingwall
SB 111 Sta 231+85.67,
22.06' Rt
EI 418.06

EXISTING STRUCTURE: SN 060-0127
Constructed in 1961 as FA Route 132, Section 6-23B at Sta 29+44.1. The existing structure consists of a 3-span continuous steel girder superstructure with a 7" cast-in-place concrete deck and HMA overlay, and a substructure of reinforced concrete piers on timber pile supported footings and concrete pile bent abutments. Back to back of abutment length is 318'-8" and out to out width of the deck is 36'-4". The structure is skewed at 61°-30'.

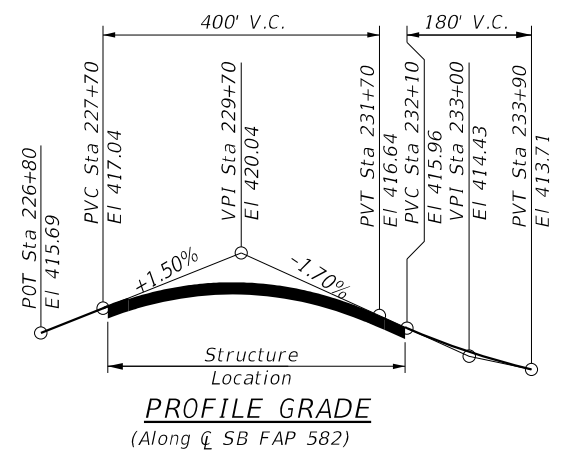
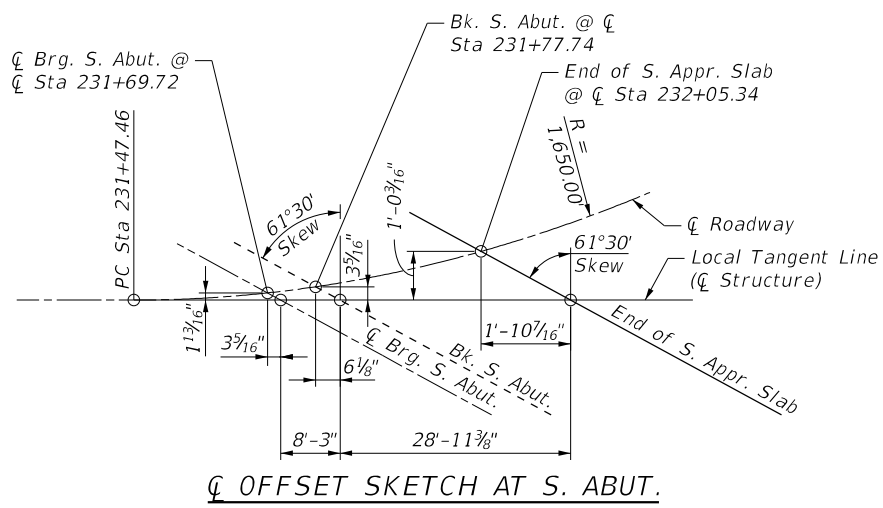
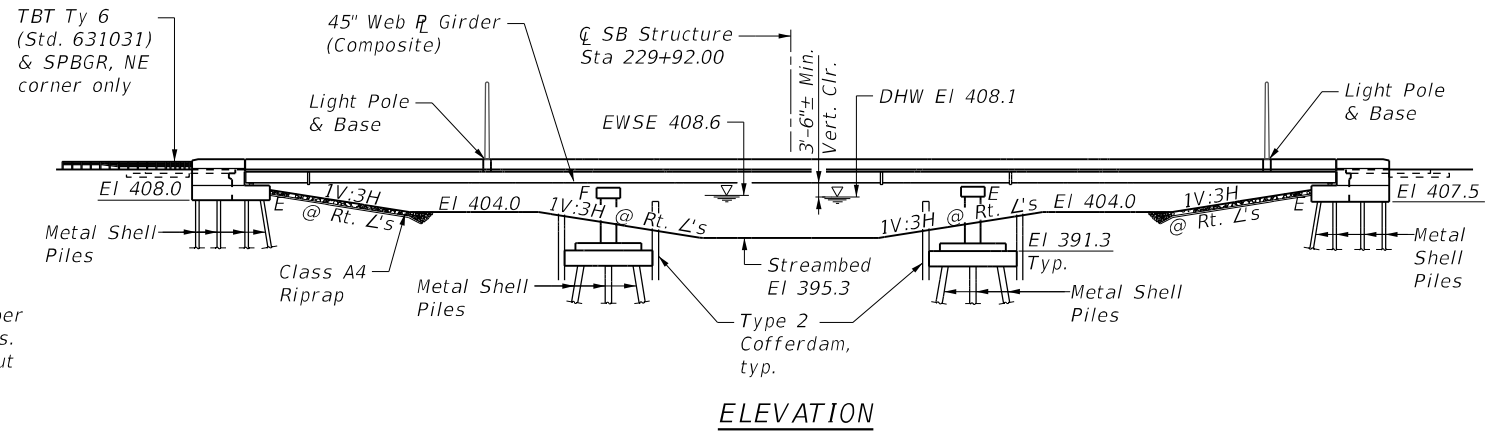
The structure is to be removed and replaced, including removal of the existing concrete pier footings to allow location of existing piles, repositioning proposed piles to miss them, and construction of the proposed pier footings.

Traffic is to be detoured on the adjacent structure and crossovers.

SALVAGE: No salvage



LOCATION SKETCH



DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	N. Abut.	Pier 1	Pier 2	S. Abut.	
Q100	408.0	390.3	390.3	407.5	5
Q200	408.0	390.3	390.3	407.5	
Design	408.0	390.3	390.3	407.5	
Check	408.0	390.3	390.3	407.5	

WATERWAY INFORMATION

Drainage Area = 105.5 Sq. Mi. Existing Overtopping EI = 416.4 at S. Abut. Proposed Overtopping EI = 416.4 at S. Abut.

Flood Event	Freq. Yr.	Q C.F.S.	Opening Sq Ft		Nat. H.W.E.	Head - Ft		Headwater EI	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	2,600	511	842	408.1	0.5	0.2	408.6	408.3
Base	50	2,600	511	842	408.1	0.5	0.2	408.6	408.3
Scour Design Check	100	2,600	511	842	408.1	0.5	0.2	408.6	408.3
Overtopping Existing	200	2,600	511	842	408.1	0.5	0.2	408.6	408.3
Overtopping Proposed	NA	-	-	-	-	-	-	-	-
Max. Calc.	500	2,600	511	842	408.1	0.5	0.2	408.6	408.3

10 Year Velocity through Existing Bridge = 5.98 ft/s
10 Year Velocity through Proposed Bridge = 3.40 ft/s

DESIGN SPECIFICATIONS

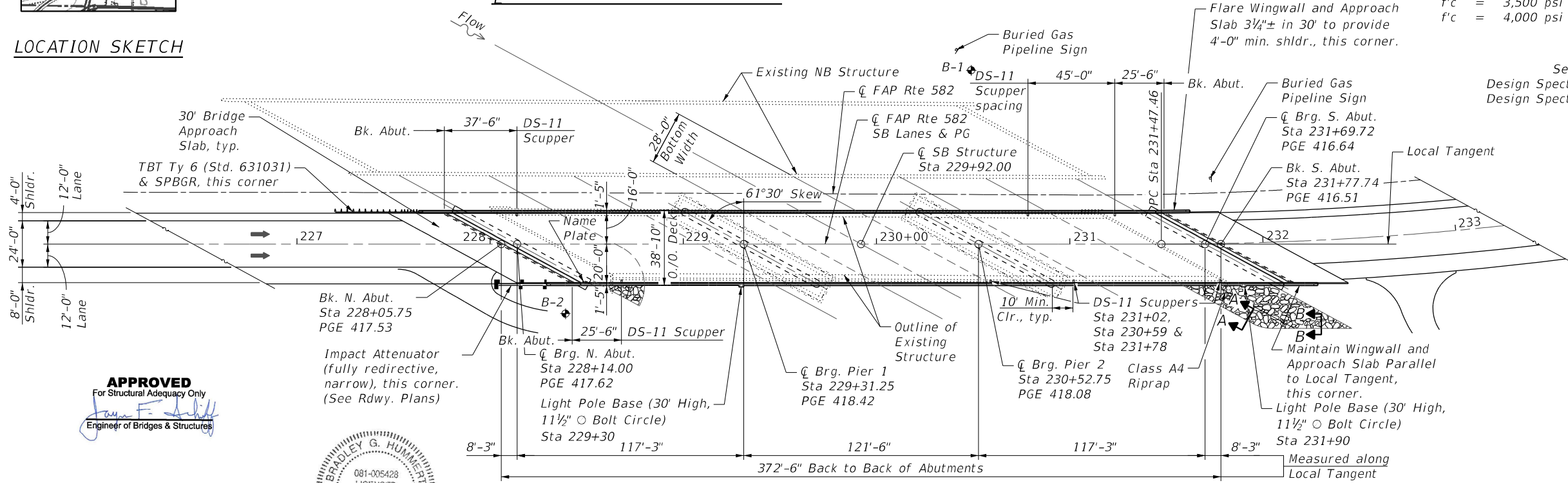
2020 AASHTO LRFD
Bridge Design Specifications
LOADING HL-93
Allow 50 p.s.f. for future wearing surface

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi fy = 60,000 psi (reinf.)
f'c = 4,000 psi (Superstructure Concrete) fy = 50,000 psi (M270 Gr. 50)

SEISMIC DATA
Seismic Performance Zone (SPZ): 2
Design Spectral Acceleration at 1.0 sec. (SD1): = 0.237 g
Design Spectral Acceleration at 0.2 sec. (SD5): = 0.535 g
Soil Site Class = D

PROP. CURVE PR BL_SB111
PI Sta = 233+31.14
 $\Delta = 12^\circ 42' 16''$ (LT)
D = 3° 28' 21"
R = 1,650.00'
T = 183.68'
L = 365.86'
E = 10.19'
e = 2.5%
T.R. = 39'
S.E. Run = 65'
PC Sta = 231+47.46
PT Sta = 235+13.32
Attain SE Sta 230+70 to Sta 231+74



GENERAL PLAN & ELEVATION
SOUTHBOUND IL RTE 111
OVER CAHOKIA CANAL
FAP RTE 582 - SECTION 6-23B-1
MADISON COUNTY
STATION 229+92.00
STRUCTURE NO. 060-0347

APPROVED
For Structural Adequacy Only
Bradley G. Hummert
Engineer of Bridges & Structures



Bradley G. Hummert Date 12/7/23
Bradley G. Hummert
Licensed Structural Engineer
in Illinois No. 081-005428
Expires: November 30, 2024

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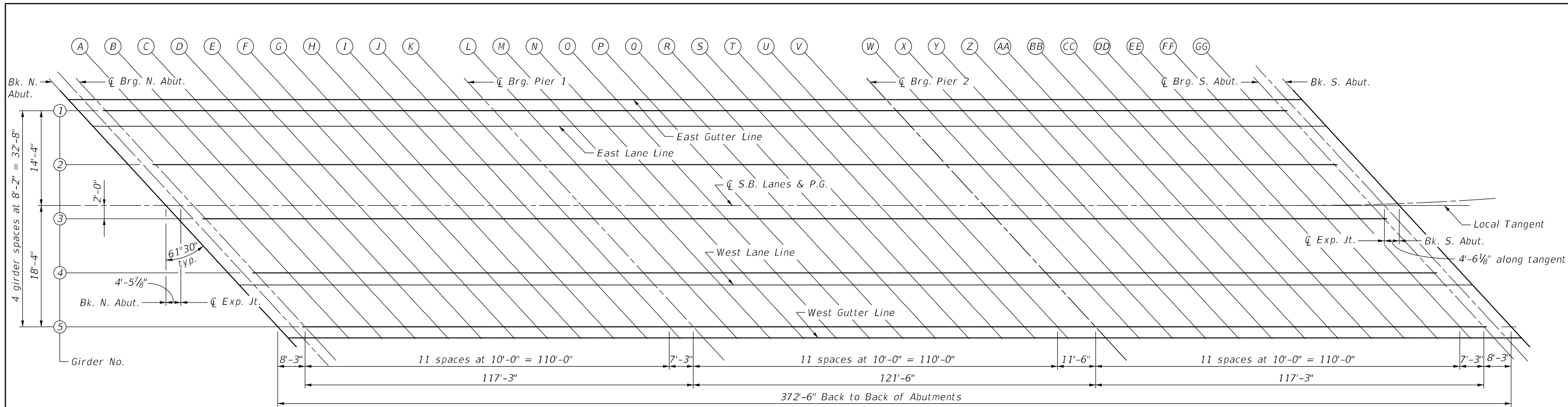
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	KHL		
	BGH		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

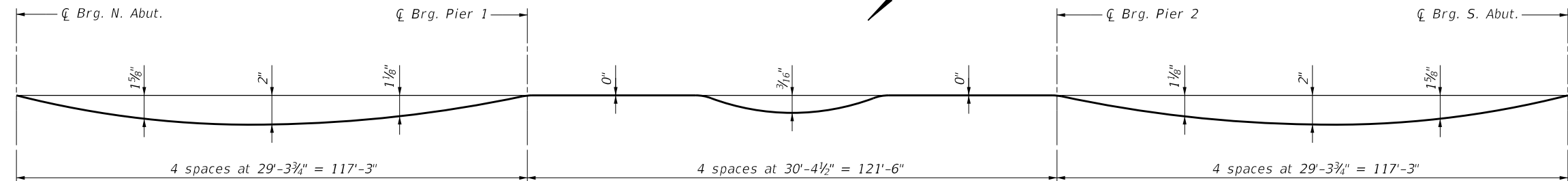
GENERAL PLAN & ELEVATION
SCALE: SHEET 1 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	41

CONTRACT NO. 76H49
ILLINOIS FED. AID PROJECT

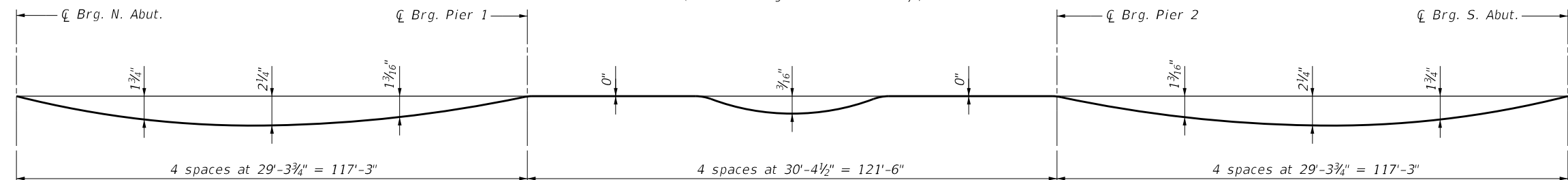


PLAN



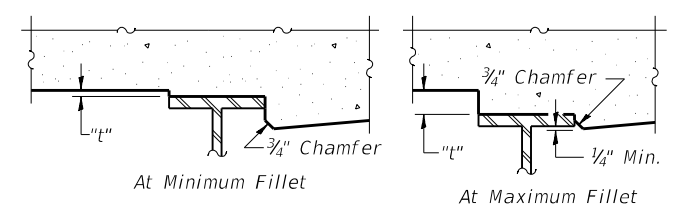
DEAD LOAD DEFLECTION DIAGRAM

(For East Gutter Line, Girder ①, East Lane Line, Girder ⑤ & West Gutter Line)
(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM

(For Girder ②, S.B. Lanes & P.G., Girder ③, West Lane Line & Girder ④)
(Includes weight of concrete only.)



FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 5 through 8 of 41, minus slab thickness, equals the fillet heights "t" above top flange of beams.

Note:
The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as show on sheets 5 through 8 of 41.

MODEL: Defn.dwg FILE: H:\M&E\113\2348_PTB_199_03218249_059_W05_IL111_BridgeCAD_Sheets\0600347-76\49-044-49-4.dwg



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PLOT DATE = 12/8/2023	CHECKED - BGH	REVISIONS
	DATE - 12/08/23	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 060-0347**

SCALE: SHEET 4 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	44
			CONTRACT NO. 76H49	
ILLINOIS FED. AID PROJECT				

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+47.33	-16.00	416.44
A1	227+57.33	-16.00	416.59
A2	227+67.33	-16.00	416.74
S. End of N. Appr. Slab	227+77.33	-16.00	416.89

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+54.70	-12.00	416.63
A1	227+64.70	-12.00	416.78
A2	227+74.70	-12.00	416.93
S. End of N. Appr. Slab	227+84.70	-12.00	417.07

☐ SOUTHBOUND LANES & PROFILE GRADE LINE

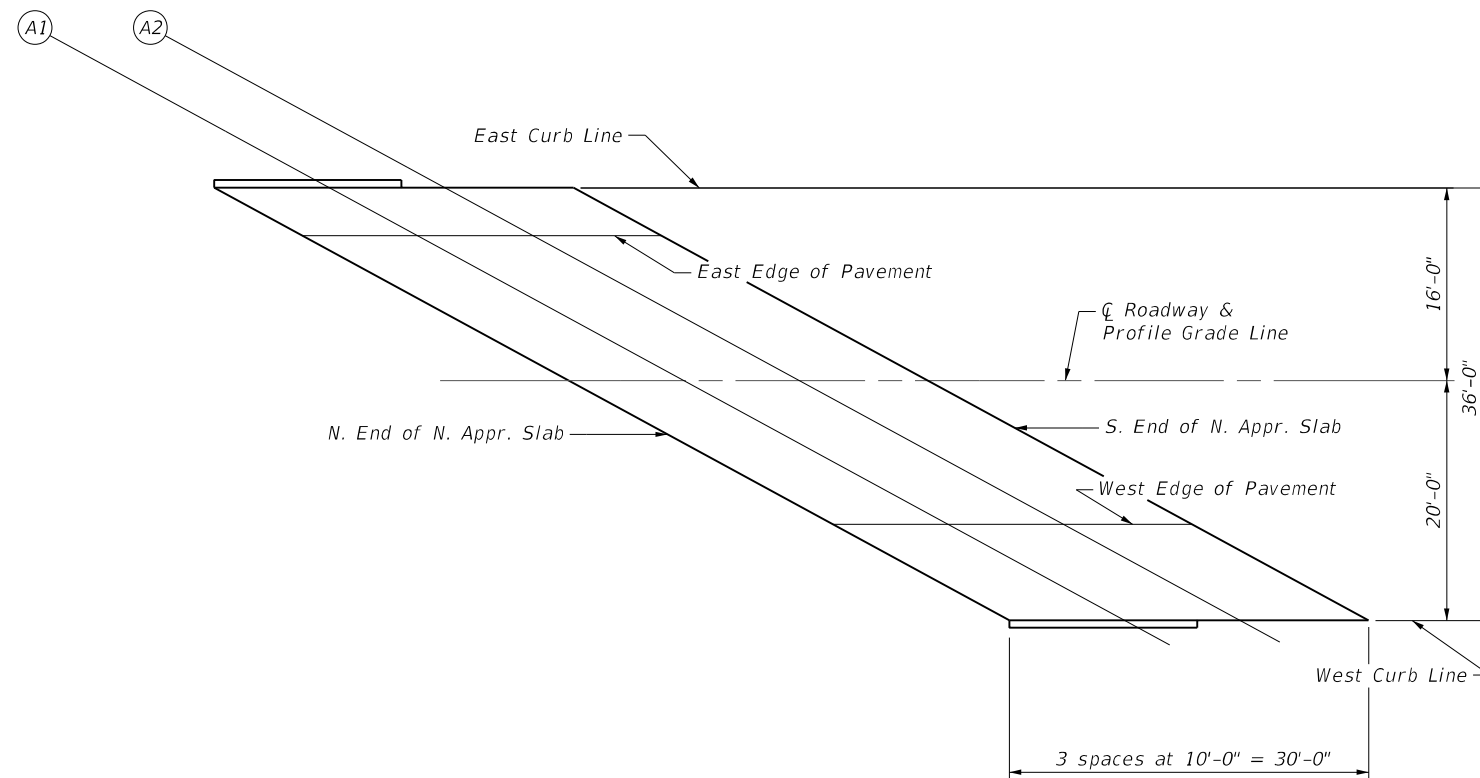
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+76.80	0.00	417.14
A1	227+86.80	0.00	417.28
A2	227+96.80	0.00	417.41
S. End of N. Appr. Slab	228+06.80	0.00	417.54

WEST EDGE OF PAVEMENT

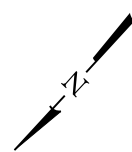
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+98.90	12.00	417.26
A1	228+08.90	12.00	417.38
A2	228+18.90	12.00	417.50
S. End of N. Appr. Slab	228+28.90	12.00	417.60

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	228+13.64	20.00	417.28
A1	228+23.64	20.00	417.39
A2	228+33.64	20.00	417.49
S. End of N. Appr. Slab	228+43.64	20.00	417.59



NORTH APPROACH PLAN



E-AS

2-17-2017

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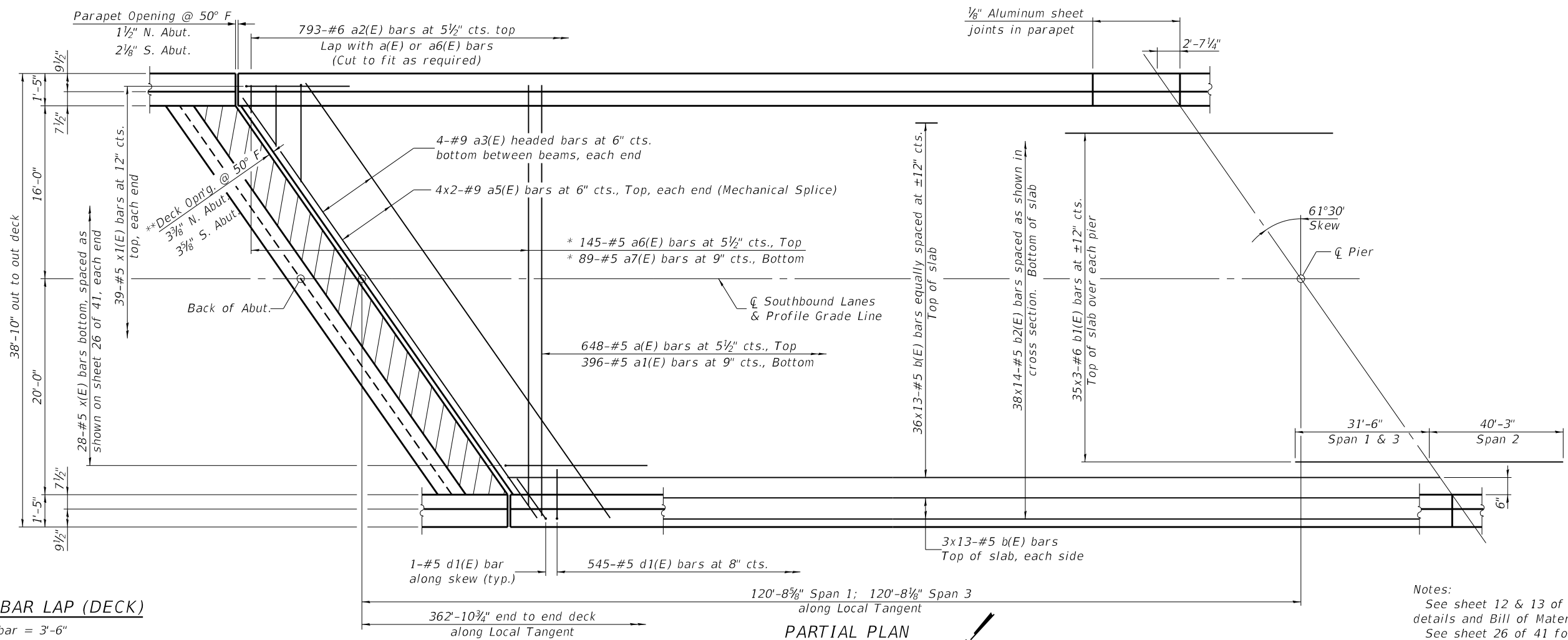
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	DATE - 12/08/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 060-0347**

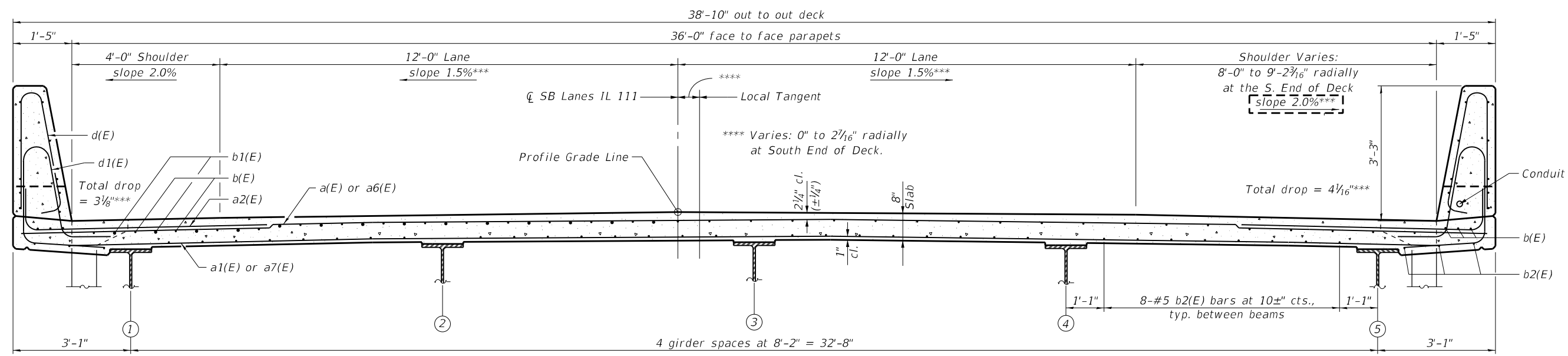
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	49
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP (DECK)
 #5 bar = 3'-6"
 #6 bar = 3'-7"

Notes:
 See sheet 12 & 13 of 41 for superstructure details and Bill of Material.
 See sheet 26 of 41 for details of bars in ends of deck.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



*** Typical cross slopes shown. Will vary in Superelevation transition area.

CROSS SECTION
(Looking South)

SE-SB-2-R(>30°) 1-1-2020

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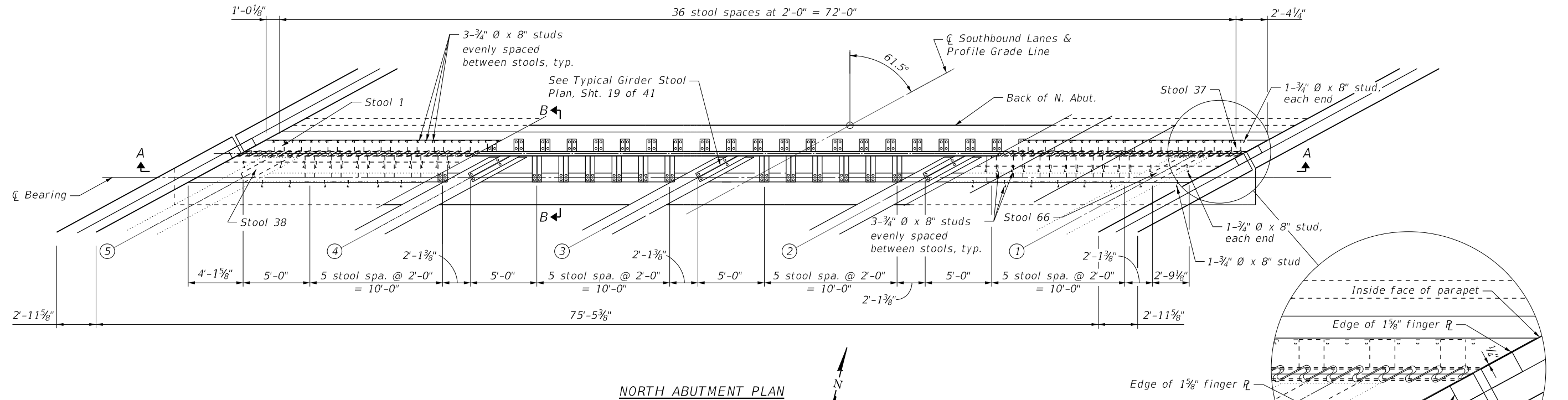
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	DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

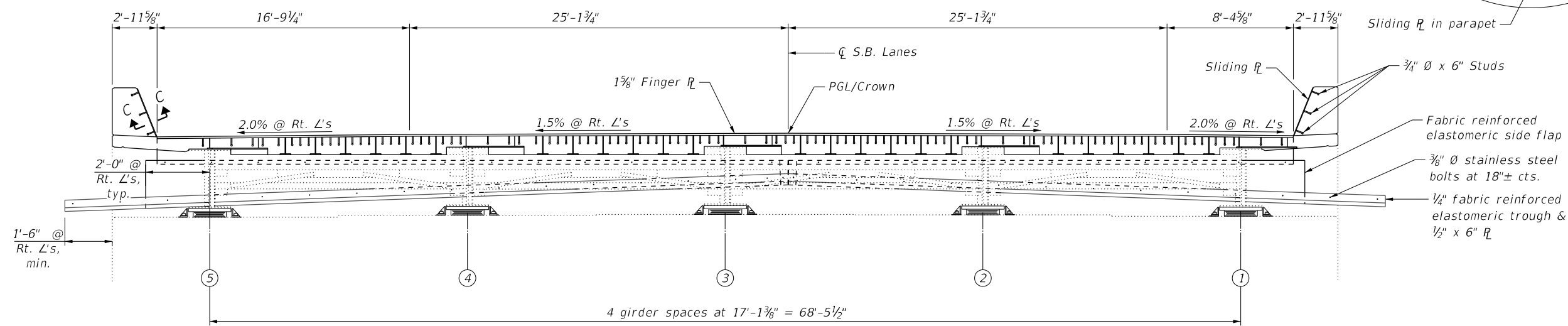
SUPERSTRUCTURE
STRUCTURE NO. 060-0347

SCALE: SHEET 11 OF 41 SHEETS STA. TO STA.

F.A.P RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 51
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



NORTH ABUTMENT PLAN



SECTION A-A

Notes:
 All components of the finger plate expansion joint shall be new.
 Contractor shall field verify before ordering any new materials.
 Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
 For Section B B, see Sheet 22 of 41.
 For Section C-C, see Sheet 19 of 41.

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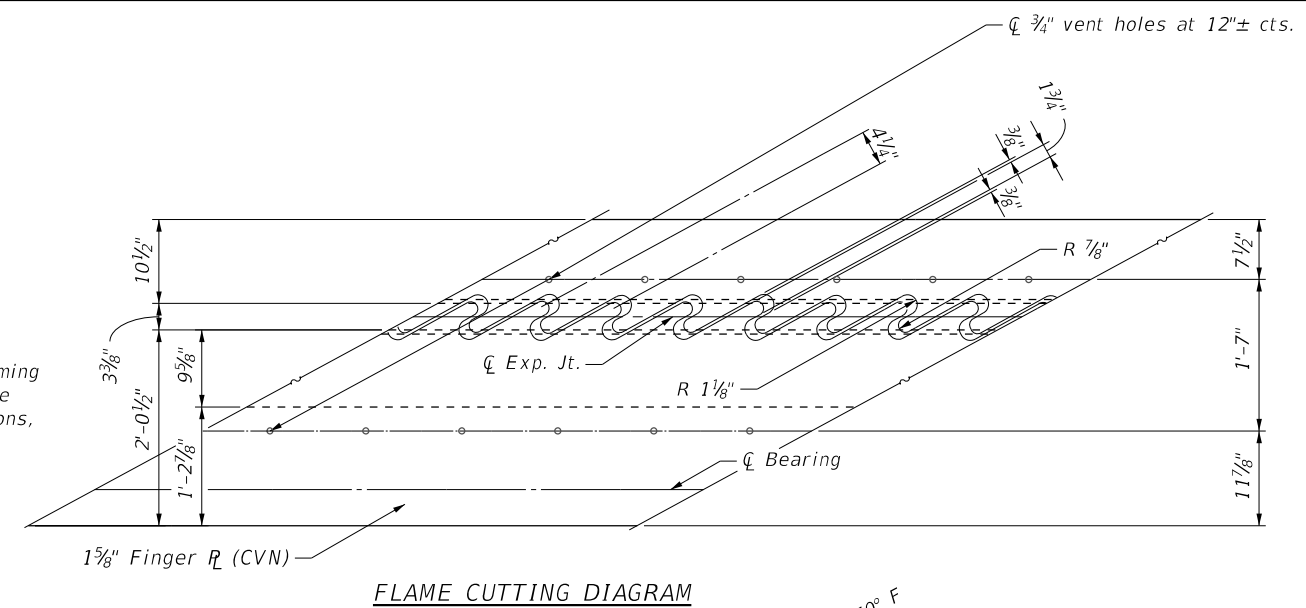
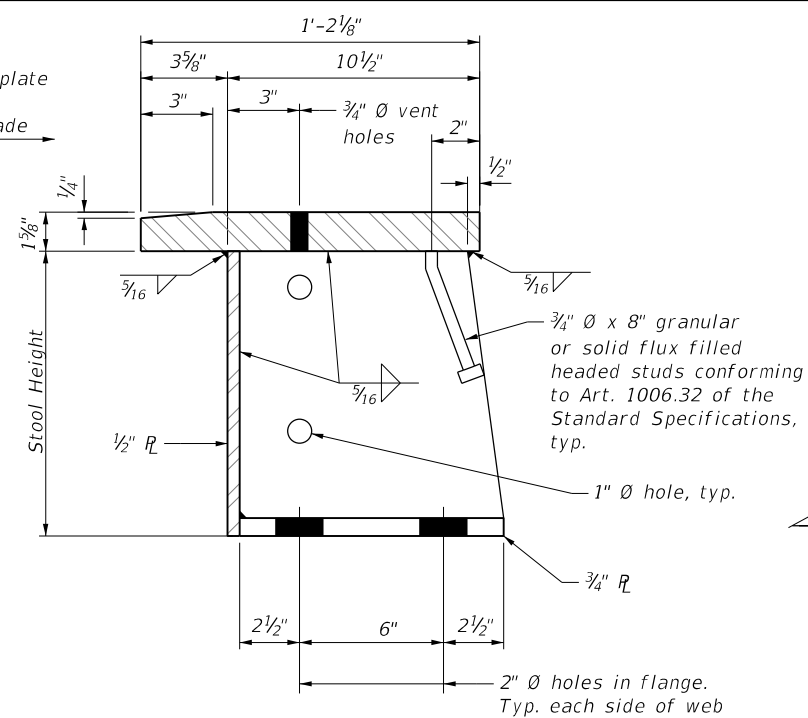
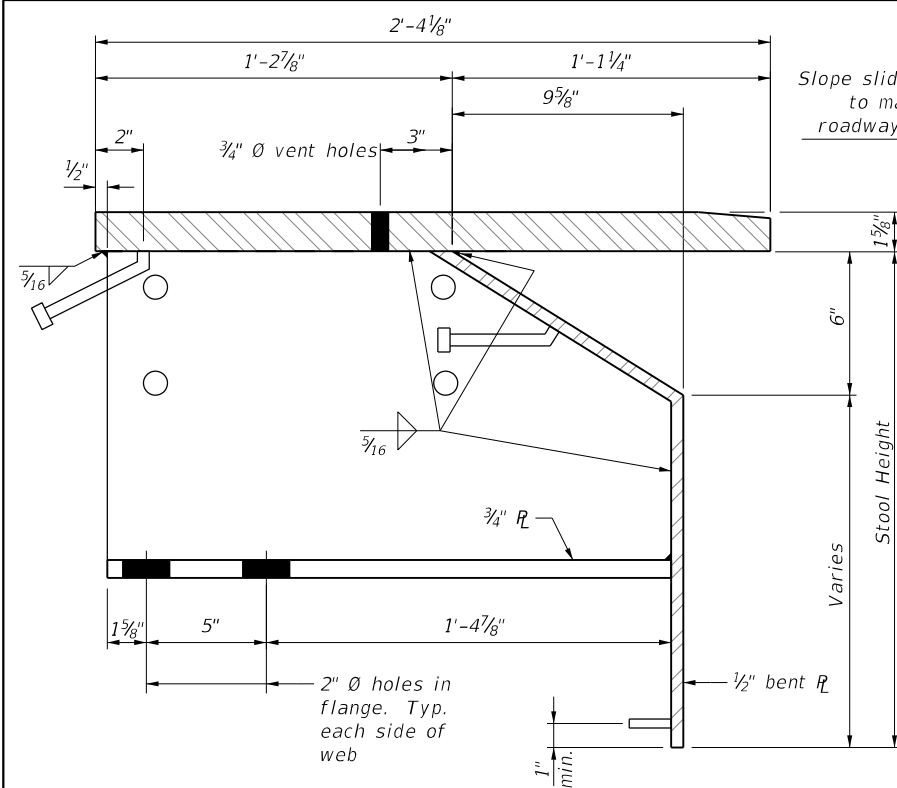
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PLOT DATE = 12/8/2023	CHECKED - BGH	REVISED -
	DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FINGER PLATE EXPANSION JOINT DETAILS
 STRUCTURE NO. 060-0347

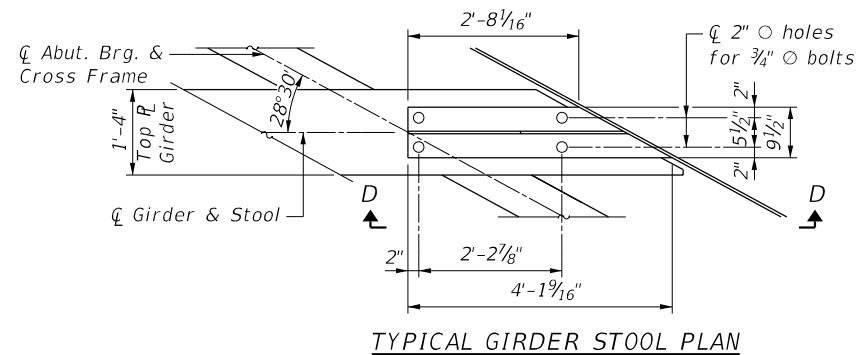
SCALE: SHEET 18 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	58
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

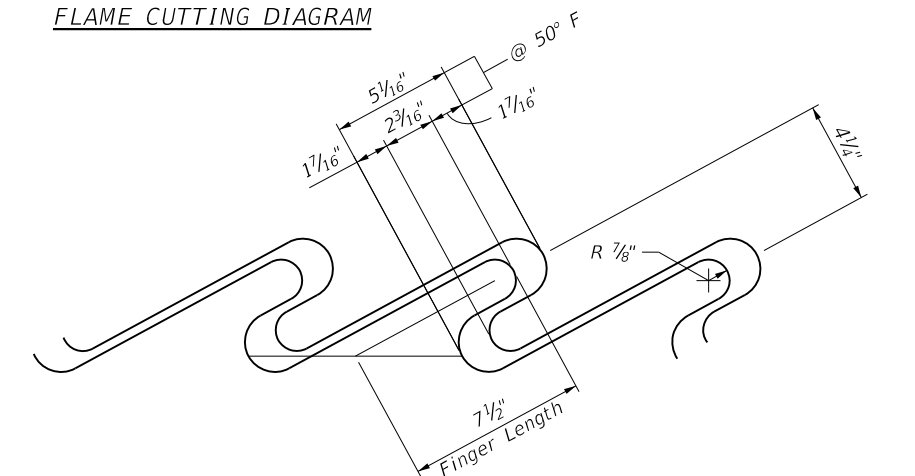


FLAME CUTTING DIAGRAM

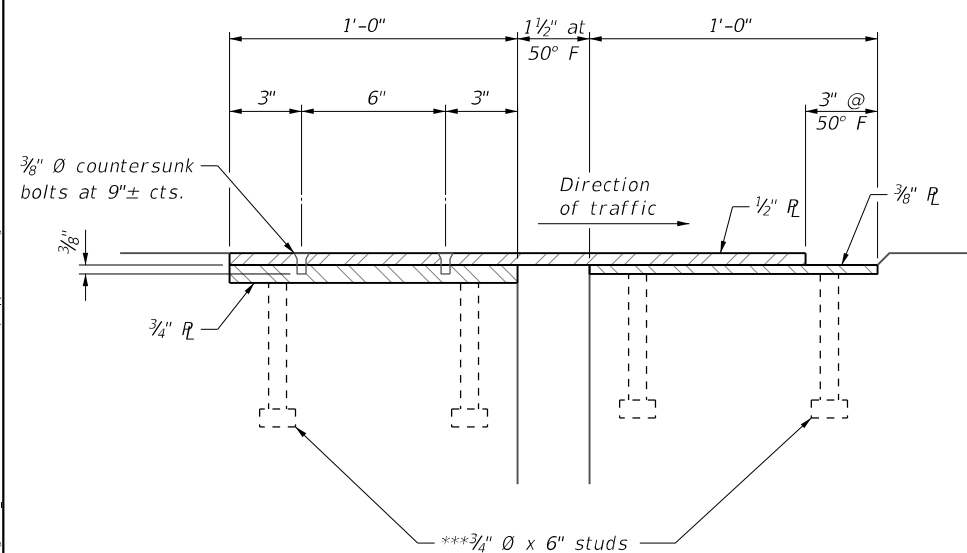
STOOL DETAILS
Horizontal dimensions are perpendicular to the joint.



TYPICAL GIRDER STOOL PLAN

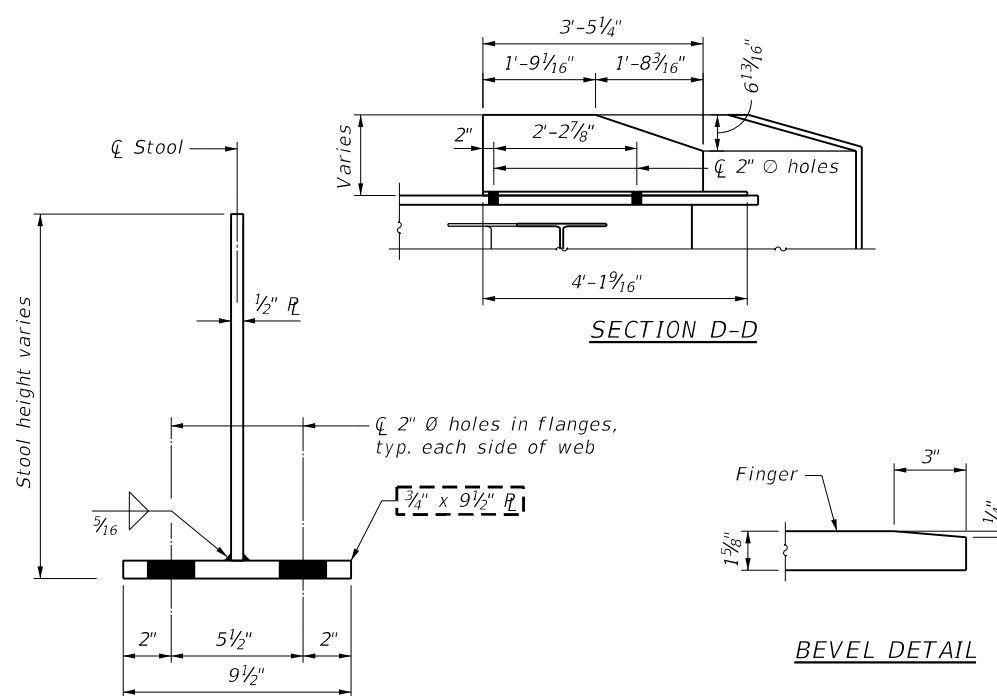


JOINT OPENING AND GEOMETRY DETAIL

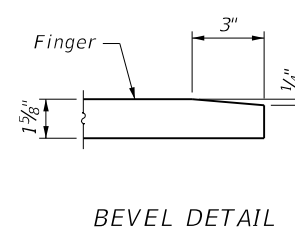


SECTION C-C

***Granular or solid flux filled headed studs conforming to Art. 1006.32 of the Standard Specifications.



SECTION THRU STOOL



BEVEL DETAIL

Notes:

Sliding plates shall conform to the requirements of AASHTO M270, Grade 50.

The cost of all new materials for finger plates, trough support brackets and elastomeric troughs shall be included in the cost of Finger Plate Expansion Joint, 2".

All new steel components of the expansion joint, including hardware associated with the trough system and sliding plates, shall be galvanized after fabrication according to Section 520.03 of the Standard Specifications.

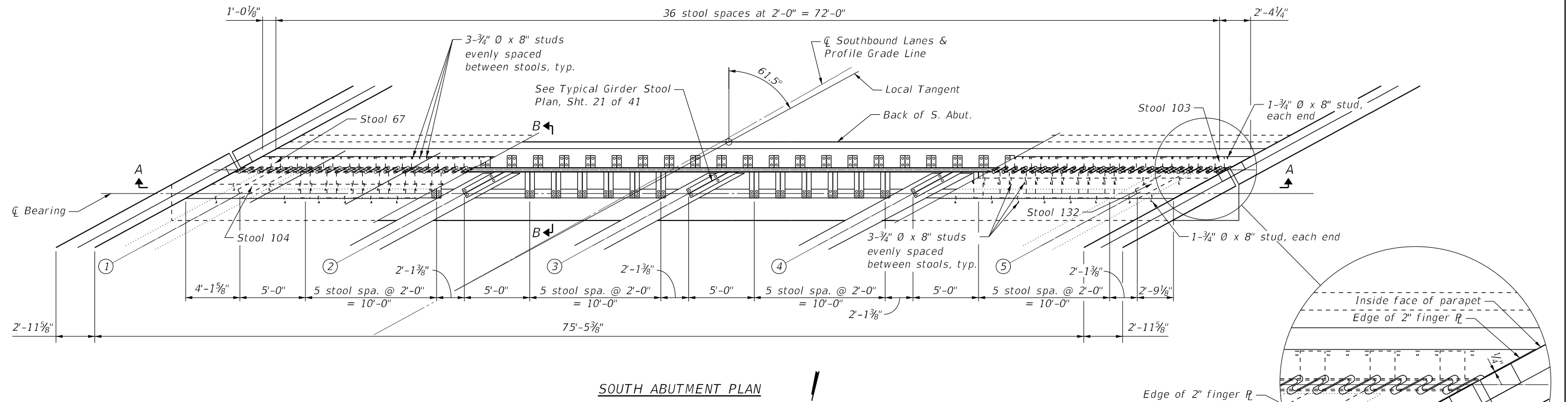
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.

NORTH ABUTMENT-BILL OF MATERIAL

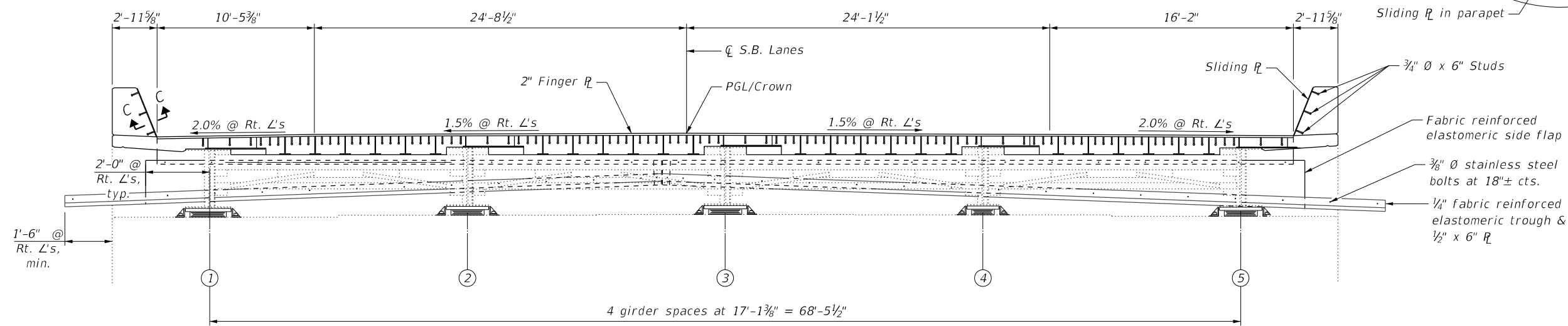
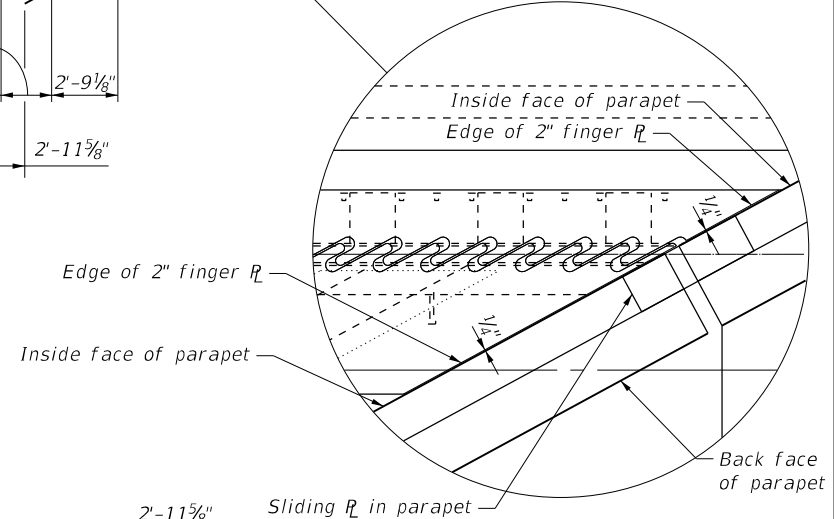
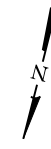
ITEM	UNIT	QUANTITY
Finger Plate Expansion Joint, 2"	Foot	76

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PLOT DATE = 12/20/2023	CHECKED - BGH	REVISED -
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	59
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



SOUTH ABUTMENT PLAN



SECTION A-A

Notes:
 All components of the finger plate expansion joint shall be new.
 Contractor shall field verify before ordering any new materials.
 Finger plate expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
 For Section B B, see Sheet 22 of 41.
 For Section C-C, see Sheet 21 of 41.

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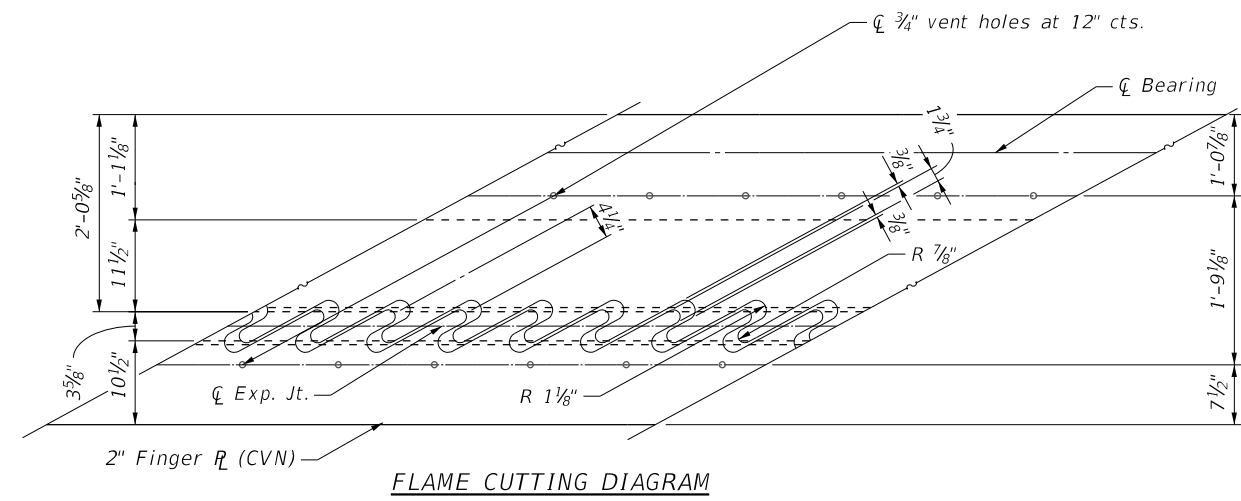
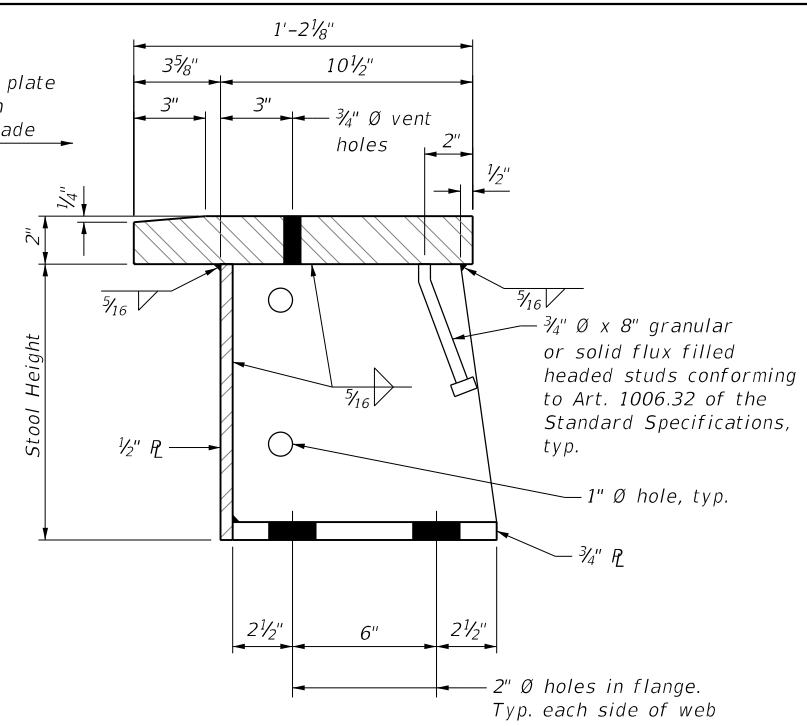
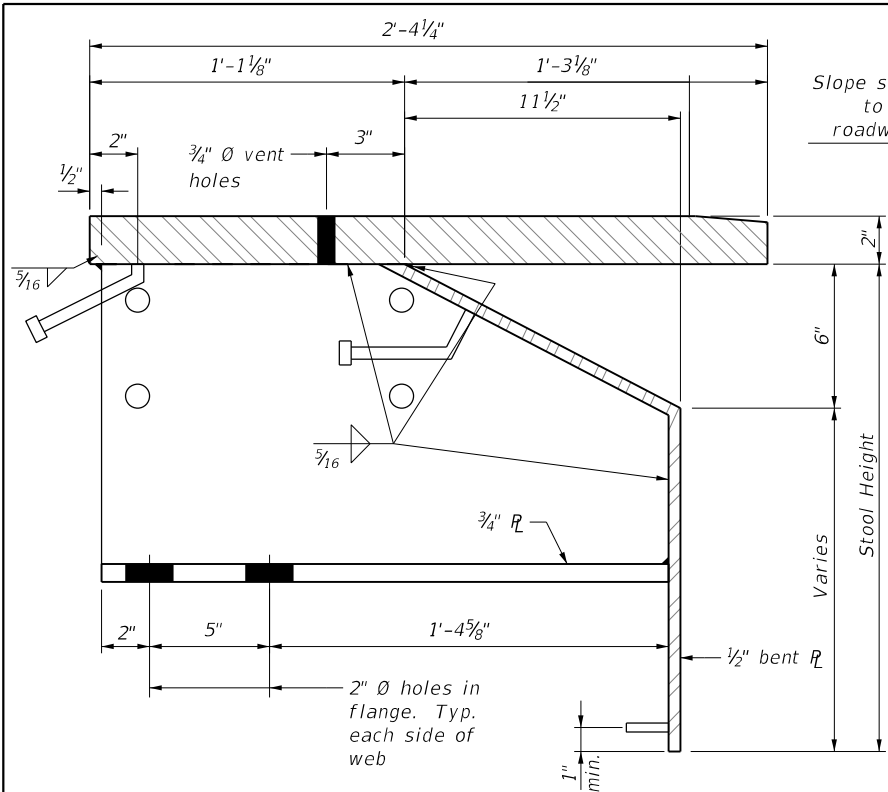
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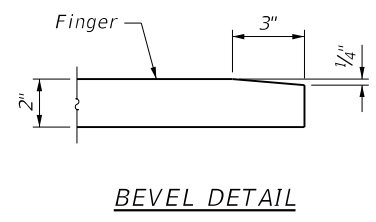
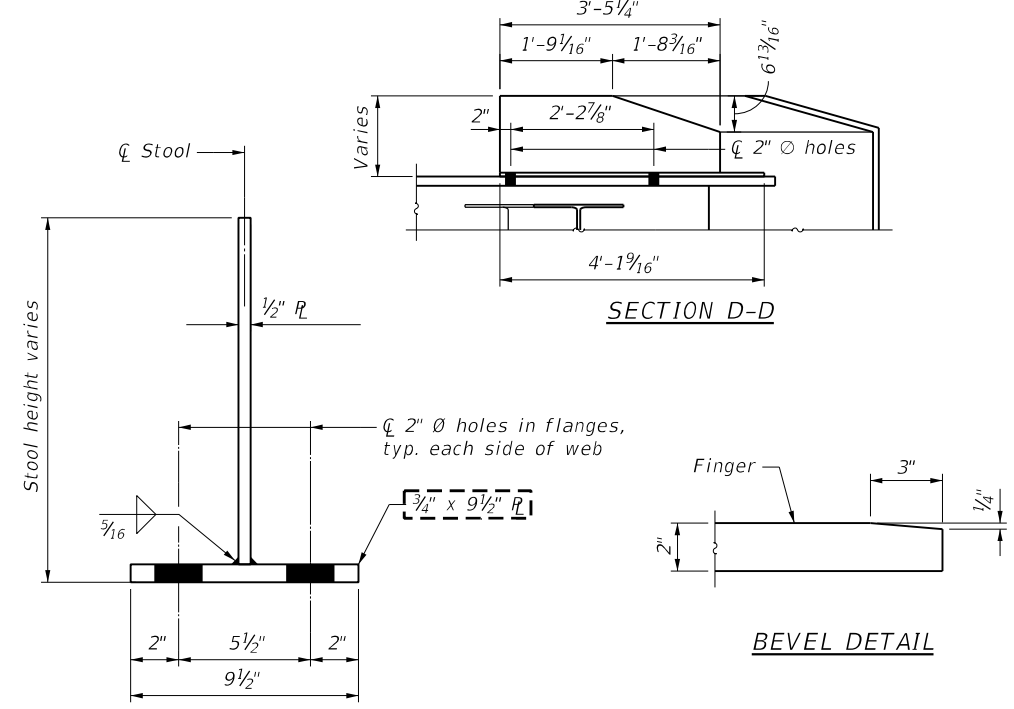
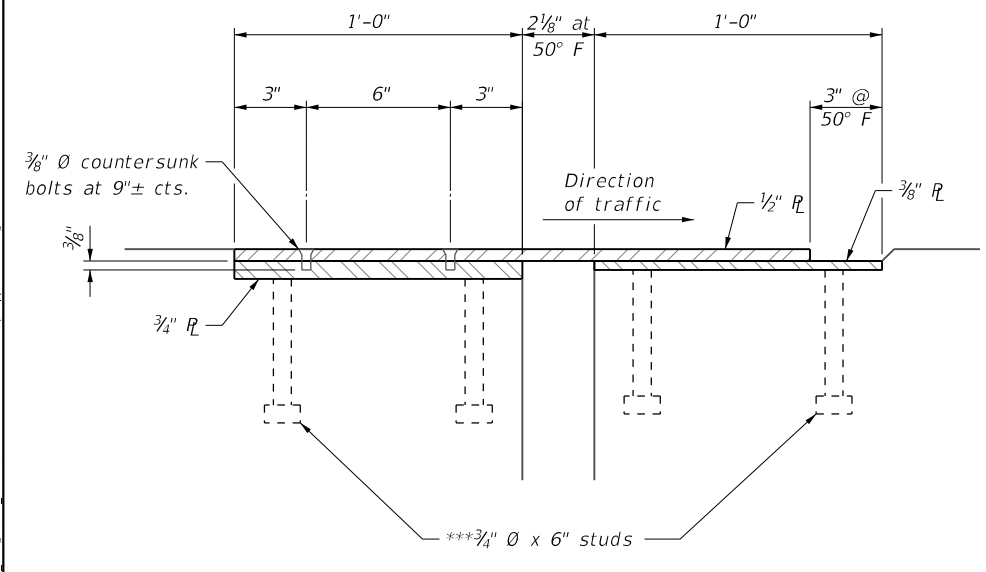
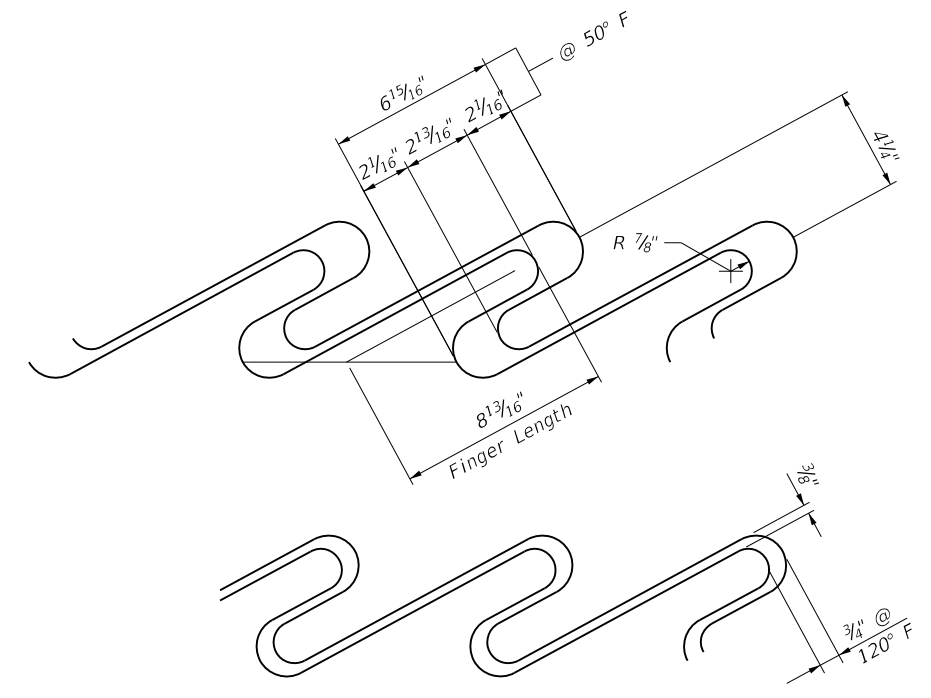
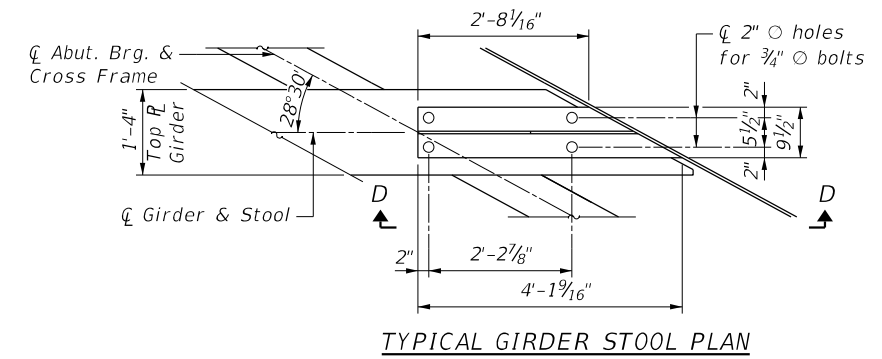
FINGER PLATE EXPANSION JOINT DETAILS
 STRUCTURE NO. 060-0347

SCALE: SHEET 20 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	60
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



STOOL DETAILS
Horizontal dimensions are perpendicular to the joint.



JOINT OPENING AND GEOMETRY DETAIL

Notes:
Sliding plates shall conform to the requirements of AASHTO M270, Grade 50.
The cost of all new materials for finger plates, trough support brackets and elastomeric troughs shall be included in the cost of Finger Plate Expansion Joint, 3".
All new steel components of the expansion joint, including hardware associated with the trough system and sliding plates, shall be galvanized after fabrication according to Section 520.03 of the Standard Specifications.
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.

SECTION C-C
***Granular or solid flux filled headed studs conforming to Art. 1006.32 of the Standard Specifications.

SECTION THRU STOOL

SOUTH ABUTMENT-BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Finger Plate Expansion Joint, 3"	Foot	76

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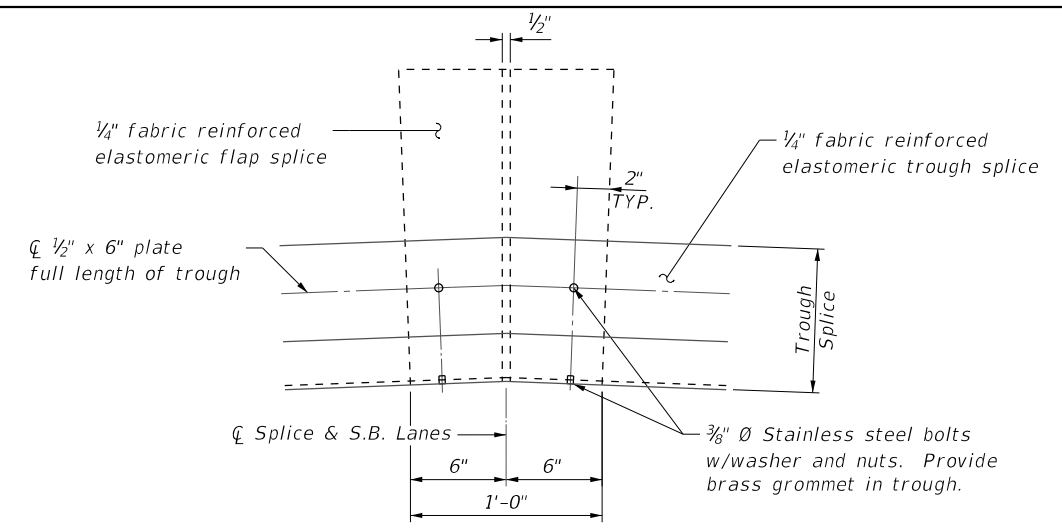
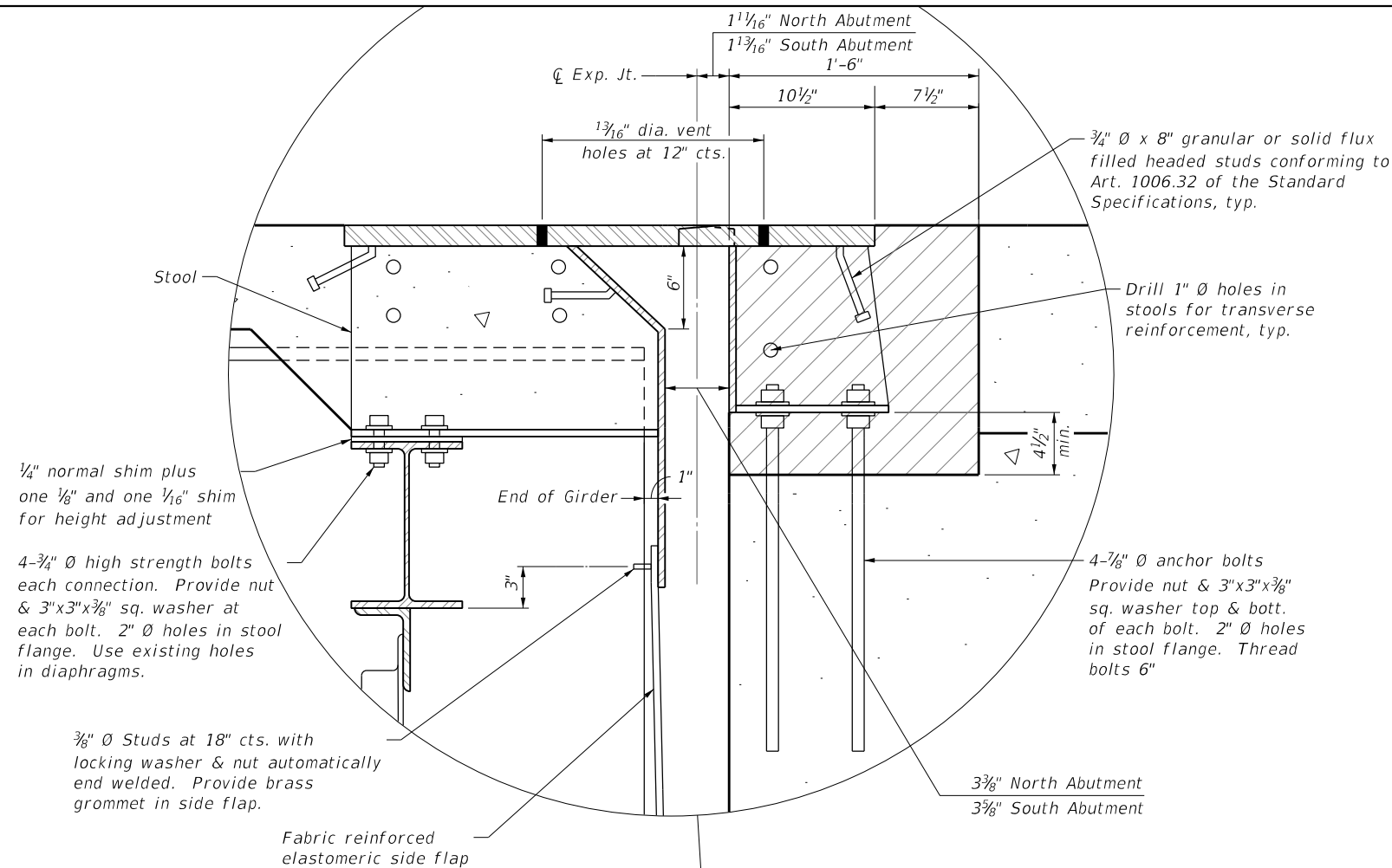
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	DATE - 12/08/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

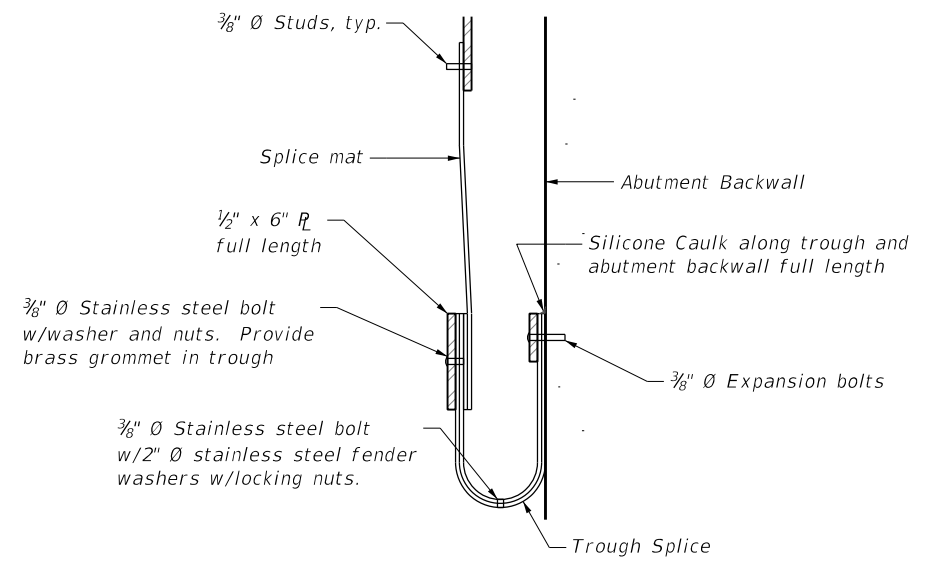
**FINGER PLATE EXPANSION JOINT DETAILS
STRUCTURE NO. 060-0347**

SCALE: SHEET 21 OF 41 SHEETS STA. TO STA.

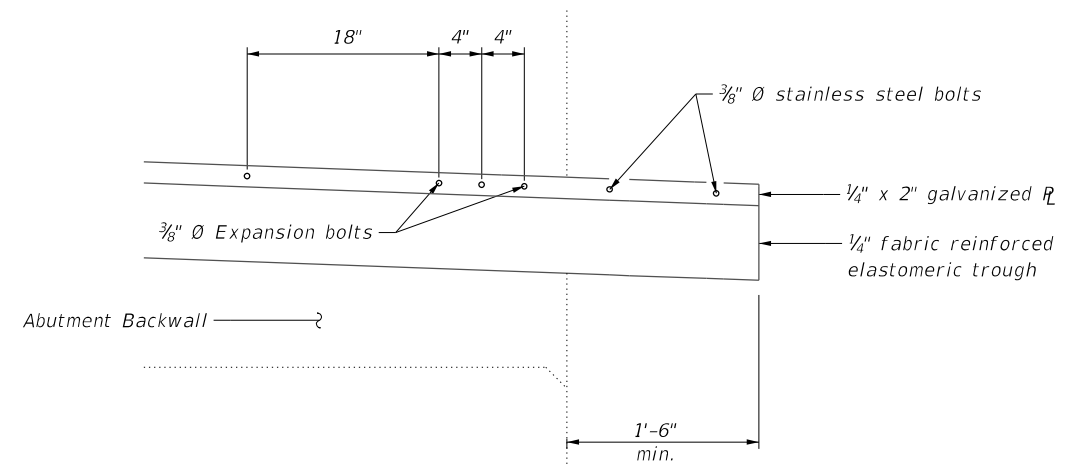
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	



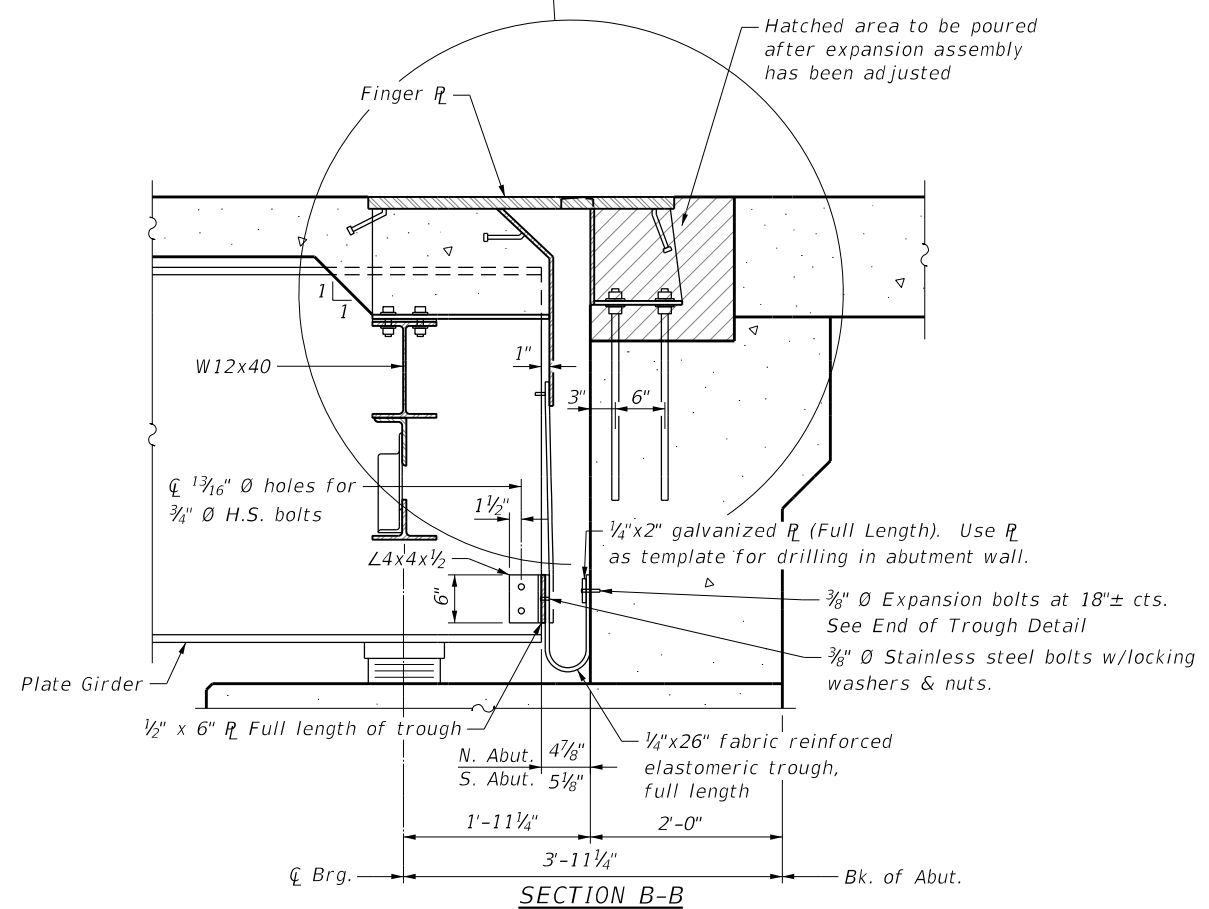
TROUGH SPLICE DETAIL



SECTION THROUGH TROUGH SPLICE



END OF TROUGH DETAIL AT BACKWALL



SECTION B-B

Note:
Tapered shims, in addition to the normal shims in Section B-B, shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of Finger Plate Expansion Joint.

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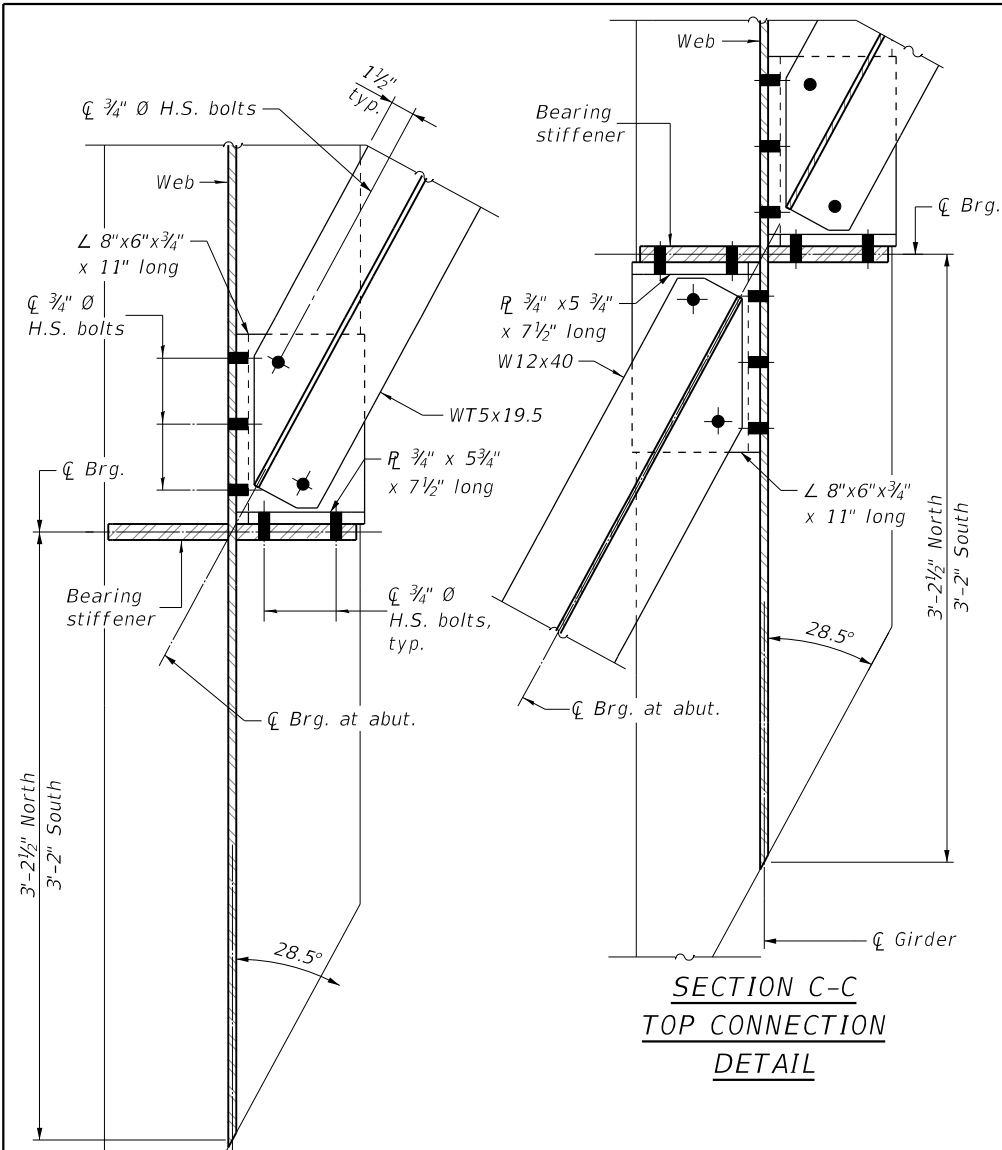
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

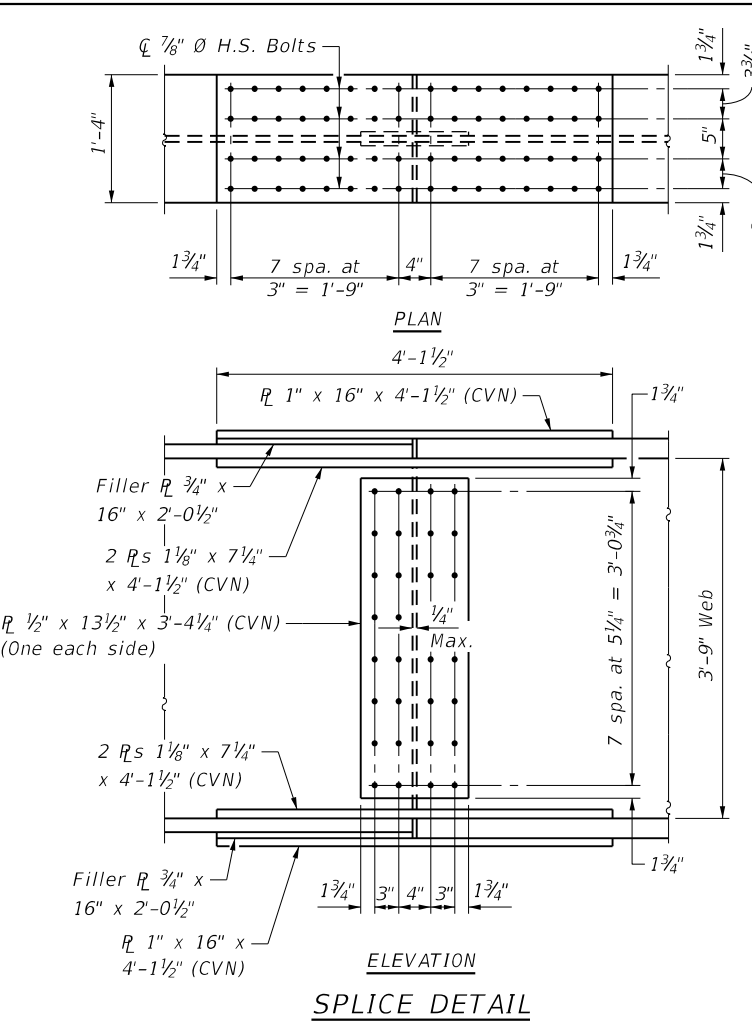
FINGER PLATE EXPANSION JOINT DETAILS
STRUCTURE NO. 060-0347

SCALE: SHEET 22 OF 41 SHEETS STA. TO STA.

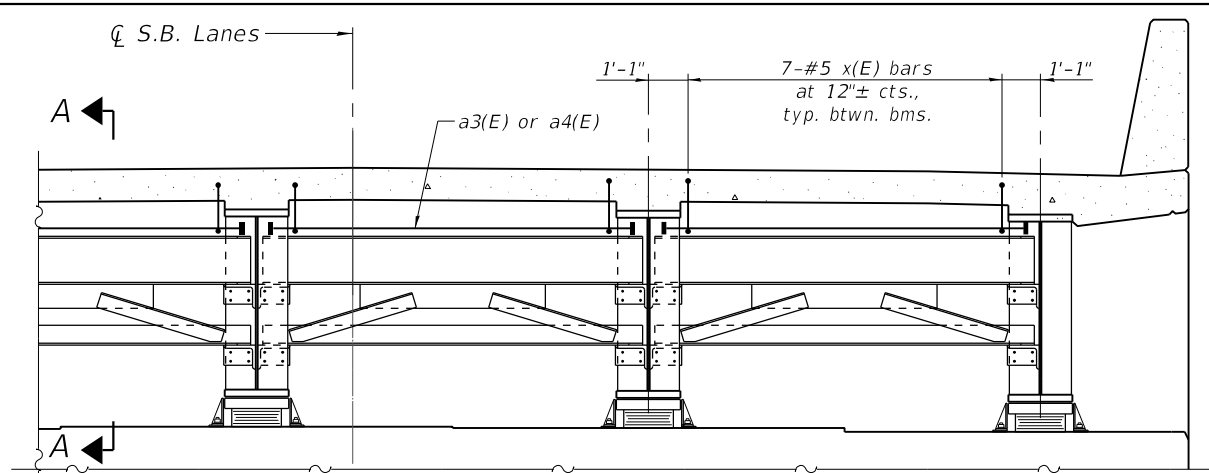
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	62
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



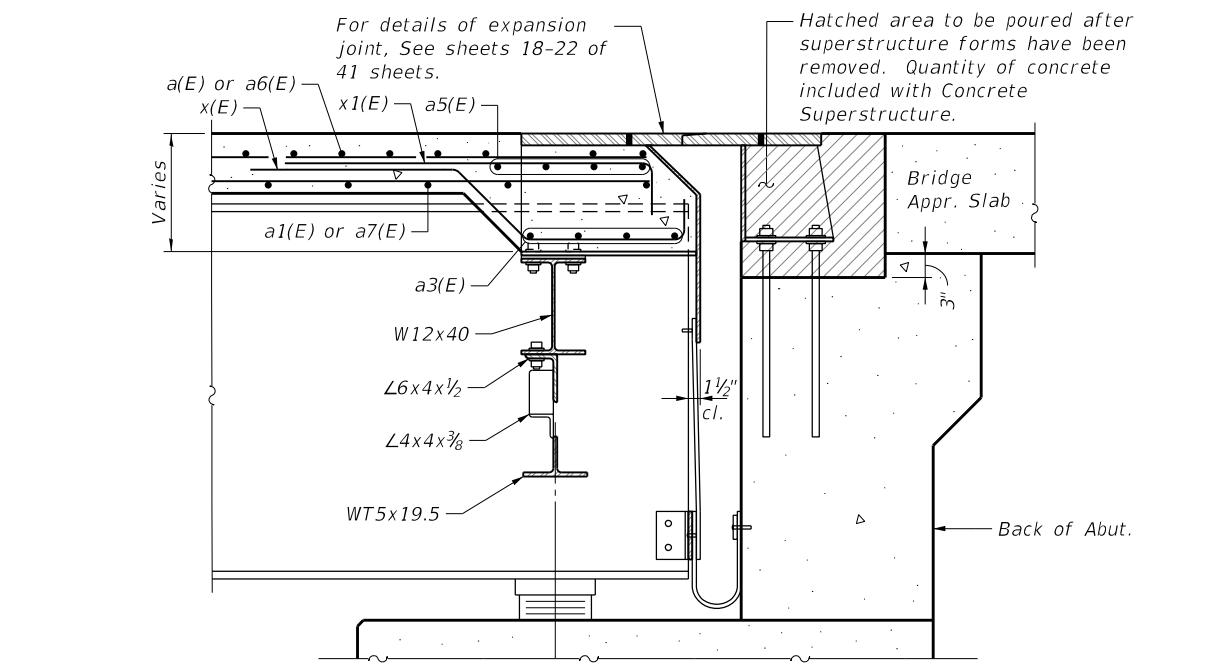
**SECTION C-C
TOP CONNECTION
DETAIL**



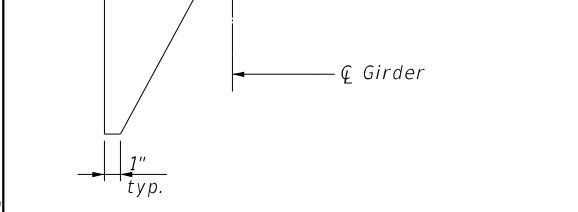
**ELEVATION
SPLICE DETAIL**



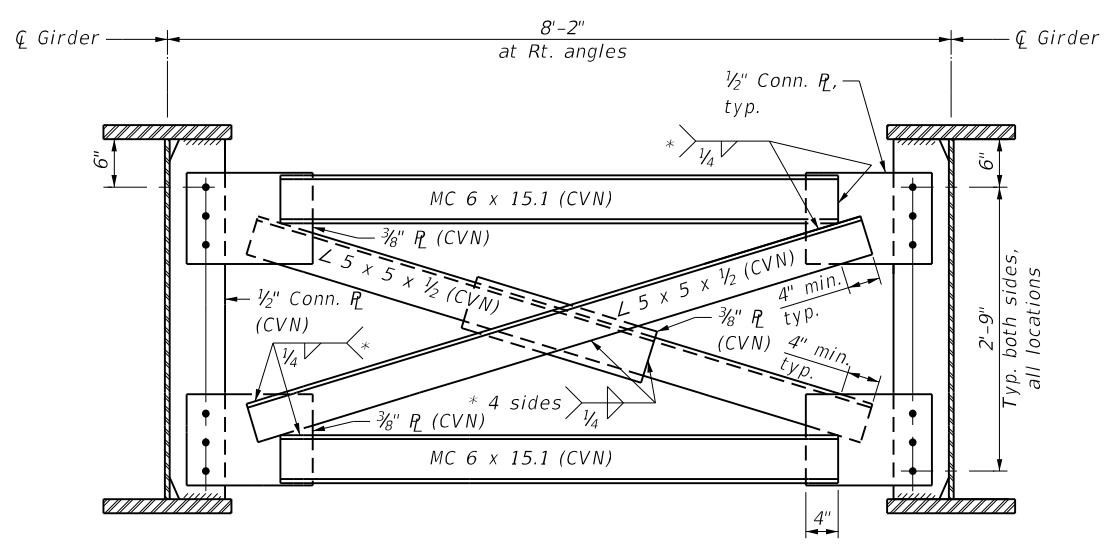
DIAPHRAGM AT ABUTMENT



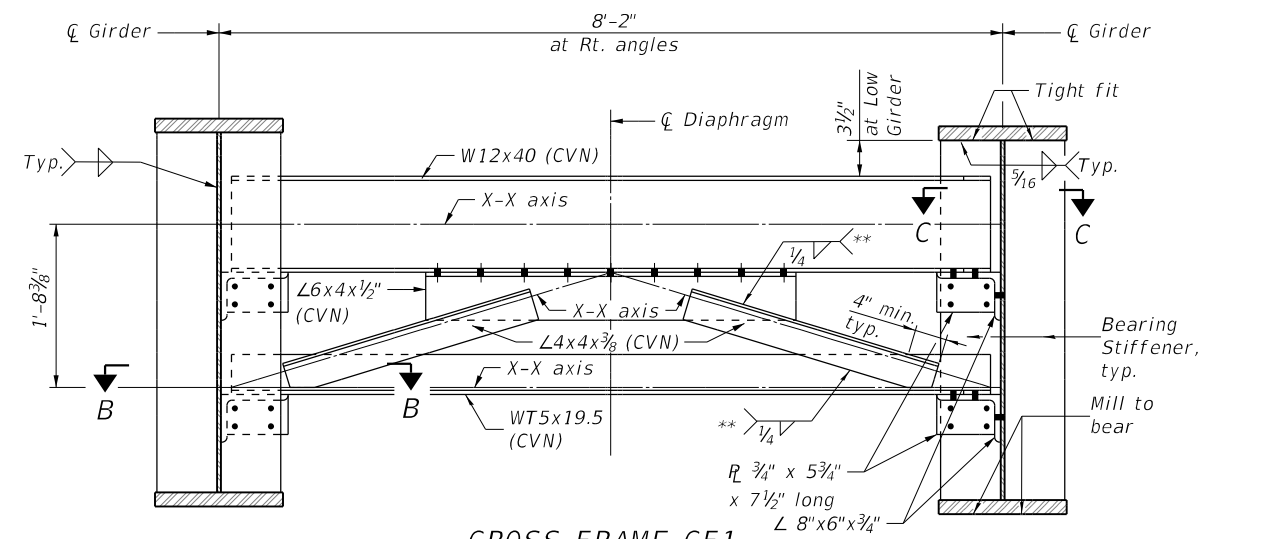
**SECTION A-A
(at Rt. L's)**



**SECTION B-B
BOTTOM CONNECTION
DETAIL**



**INTERIOR CROSS FRAME CF
(72 required)**



**CROSS FRAME CF1
(8 required)**

** Weld angles along 3 sides to inside face of L6x4x1/2" or vertical leg of WT5x19.5; however, if cross frames are galvanized, weld all-around.

Notes:
See sheet 12 of 41 for superstructure details and Bill of Material.
The x(E) and x1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
Bolts for cross frame connections shall be 3/4" Ø, holes 1 1/16" Ø.
Two hardened washers required for each set of oversized holes.
All steel plates and members of splices and cross frames shall be AASHTO M270, Grade 50.
Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.



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	DATE - 12/08/23

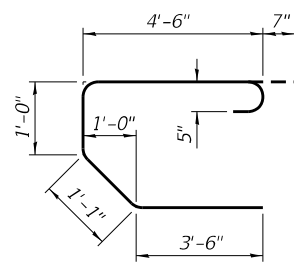
REVISOR	REVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

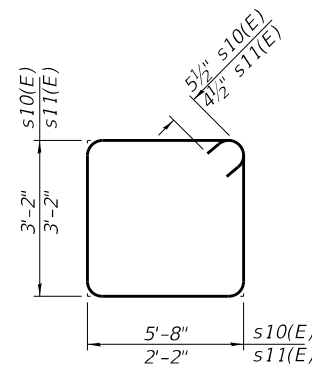
**STRUCTURAL STEEL DETAILS
STRUCTURE NO. 060-0347**

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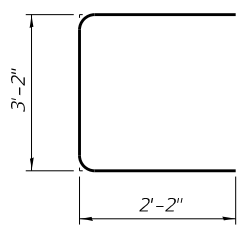
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CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



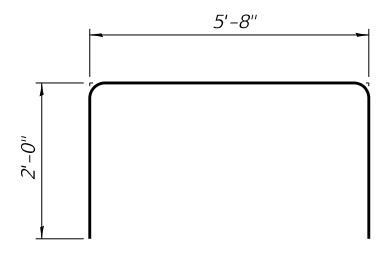
BAR s14(E)



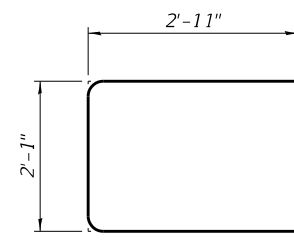
BARS s10(E) & s11(E)



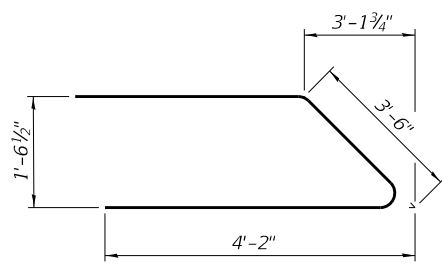
BAR s12(E)



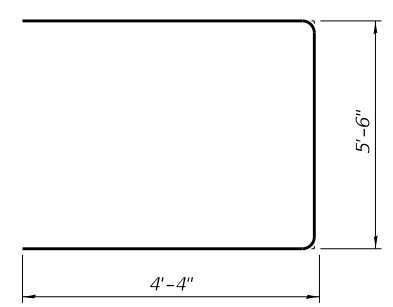
BAR u15(E)



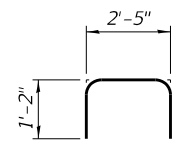
BAR u12(E)



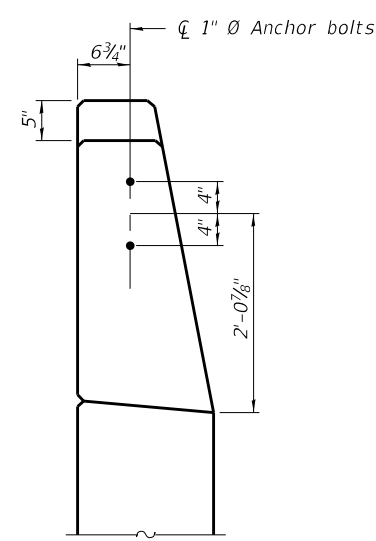
BAR u13(E)



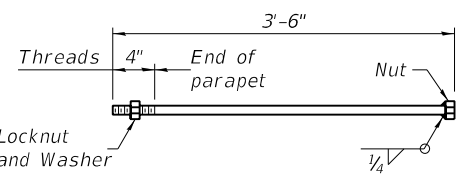
BAR u10(E)



BAR u14(E)



VIEW C-C



1" Ø ANCHOR BOLT

Anchor bolt assemblies shall be according to Article 1006.09 of the Standard Specifications. Cost included with Concrete Superstructure.

MIN. BAR LAP

BAR	LAP
#7	4'-5"

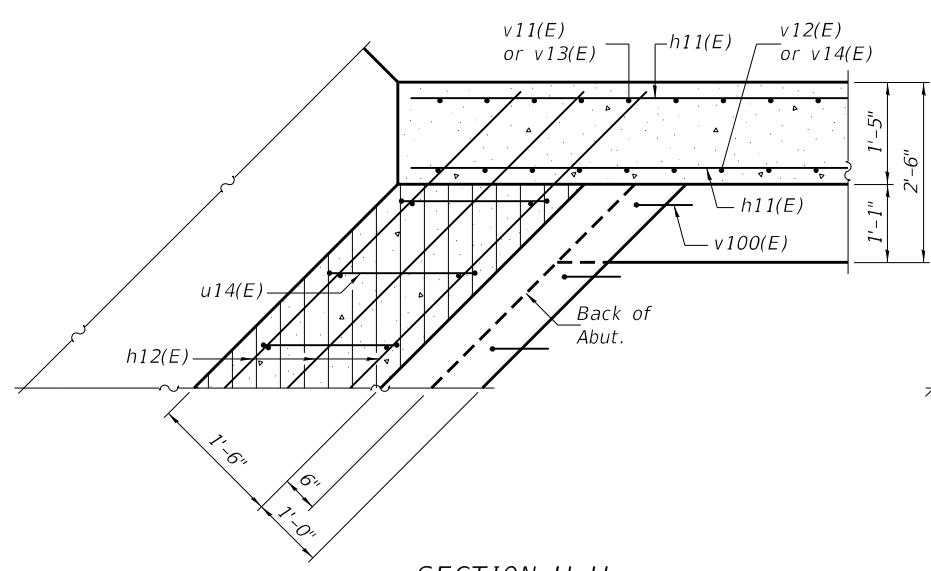
Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 12 of 41.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 38 of 41.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

NORTH ABUTMENT
 BILL OF MATERIAL

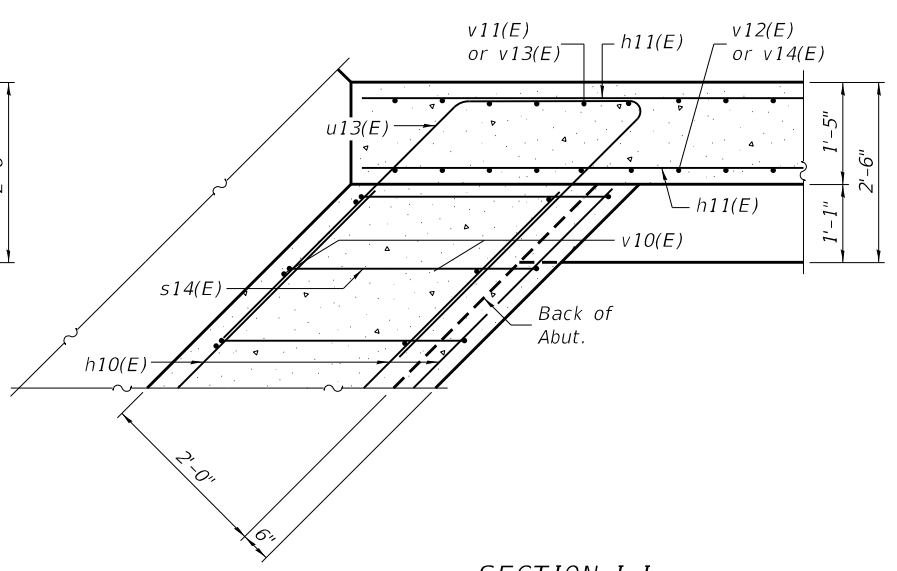
Bar	No.	Size	Length	Shape
h10(E)	36	#4	26'-9"	—
h11(E)	22	#4	17'-2"	—
h12(E)	15	#5	29'-6"	—
p1(E)	10	#7	29'-7"	—
p2(E)	12	#7	20'-0"	—
p3(E)	8	#7	25'-6"	—
s10(E)	104	#5	18'-7"	□
s11(E)	22	#4	11'-5"	□
s12(E)	18	#4	7'-6"	□
s14(E)	76	#5	10'-8"	□
u10(E)	8	#6	14'-5"	┌
u12(E)	2	#4	7'-11"	┌
u13(E)	10	#4	11'-10"	┌
u14(E)	76	#5	4'-9"	┌
u15(E)	47	#4	9'-8"	┌
v10(E)	152	#5	7'-0"	—
v11(E)	54	#5	7'-1"	—
v12(E)	54	#6	7'-1"	—
v13(E)	54	#5	6'-4"	—
v14(E)	54	#5	6'-6"	—
v15(E)	152	#5	2'-6"	—
v100(E)	76	#5	3'-4"	┌
Structure Excavation	Cu Yd		363.5	
Concrete Structures	Cu Yd		121.1	
Reinforcement Bars, Epoxy Coated	Pound		10,400	
Furnishing Metal Shell Piles 14" x 0.312"	Foot		1,440	
Driving Piles	Foot		1,440	
Test Pile, Metal Shell	Each		1	
Concrete Sealer	Sq Ft		1,125	

PILE DATA

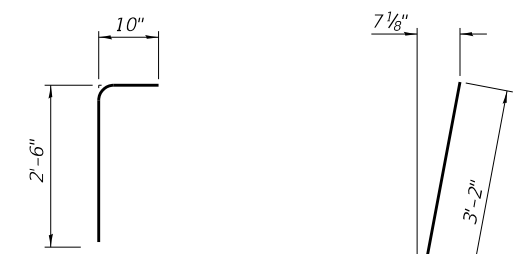
Type: Metal Shell PP14 x 0.312"
 Nominal Required Bearing: 308 k
 Factored Resistance Available: 129 k
 Est. Length: 60'
 No. Production Piles: 24
 No. Test Piles: 1



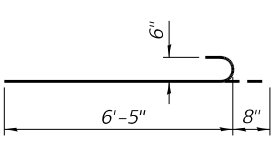
SECTION H-H



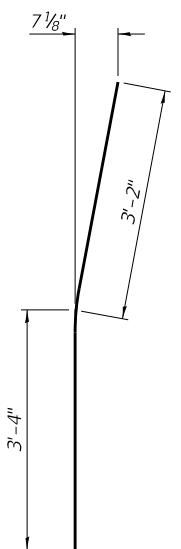
SECTION I-I



BAR v100(E)



BAR v12(E)



BAR v14(E)

AS-39CS-C-R>30 12-30-2021

(Sheet 3 of 3)

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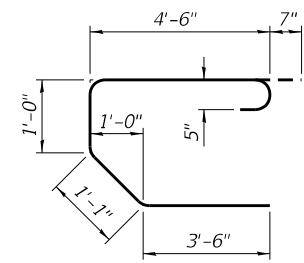
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CHECKED - BGH	REVISED -
DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

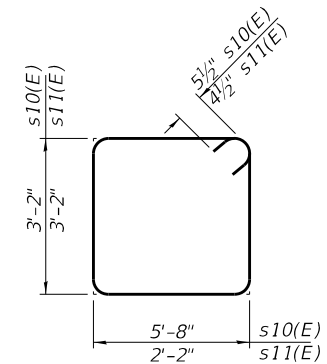
NORTH ABUTMENT
 STRUCTURE NO. 060-0347

SCALE: SHEET 32 OF 41 SHEETS STA. TO STA.

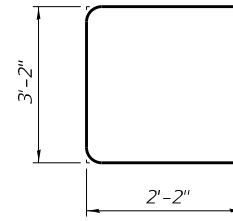
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	72
				CONTRACT NO. 76H49
ILLINOIS FED. AID PROJECT				



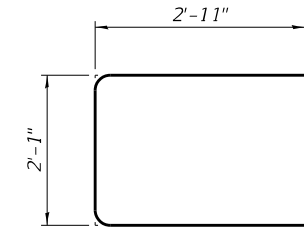
BAR s14(E)



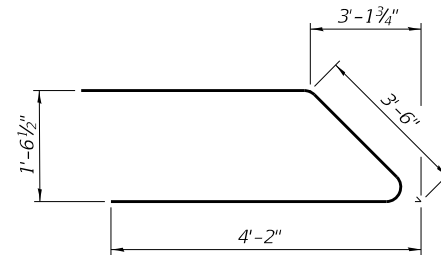
BARS s10(E) & s11(E)



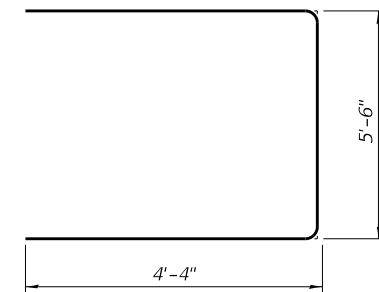
BAR s12(E)



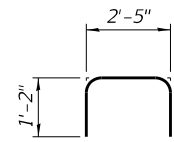
BAR u12(E)



BAR u13(E)



BAR u10(E)



BAR u14(E)

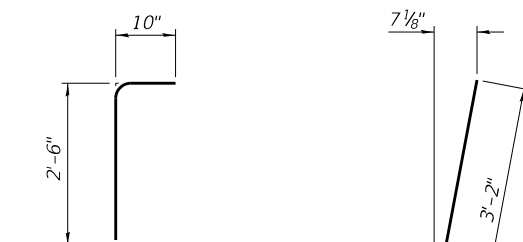
MIN. BAR LAP

BAR	LAP
#7	4'-5"

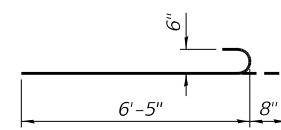
Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 12 of 41.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 38 of 41.
 The top of back wall and approach slab seat shall have a constant slope determined from the control points shown.
 Concrete Sealer shall be applied to the bearing seats and front faces of the hatched block, back wall, and abutment cap.

SOUTH ABUTMENT
 BILL OF MATERIAL

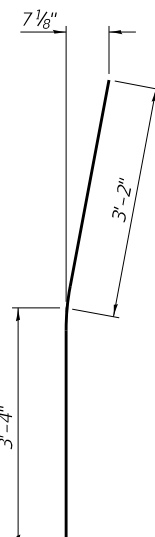
Bar	No.	Size	Length	Shape
h10(E)	36	#4	26'-9"	—
h11(E)	22	#4	17'-2"	—
h12(E)	15	#5	29'-6"	—
p1(E)	10	#7	29'-7"	—
p2(E)	12	#7	20'-0"	—
s10(E)	104	#5	18'-7"	□
s11(E)	22	#4	11'-5"	□
s12(E)	18	#4	7'-6"	□
s14(E)	76	#5	10'-8"	□
u10(E)	8	#6	14'-5"	□
u12(E)	2	#4	7'-11"	□
u13(E)	10	#4	11'-10"	□
u14(E)	76	#5	4'-9"	□
v10(E)	152	#5	7'-0"	—
v11(E)	54	#5	7'-1"	—
v12(E)	54	#6	7'-1"	—
v13(E)	54	#5	6'-4"	—
v14(E)	54	#5	6'-6"	—
v15(E)	152	#5	2'-6"	—
v100(E)	76	#5	3'-4"	—
Structure Excavation	Cu Yd		363.5	
Concrete Structures	Cu Yd		121.1	
Reinforcement Bars, Epoxy Coated	Pound		9,680	
Furnishing Metal Shell Piles 14" x 0.312"	Foot		1,440	
Driving Piles	Foot		1,440	
Test Pile, Metal Shell	Each		1	
Concrete Sealer	Sq Ft		1,125	



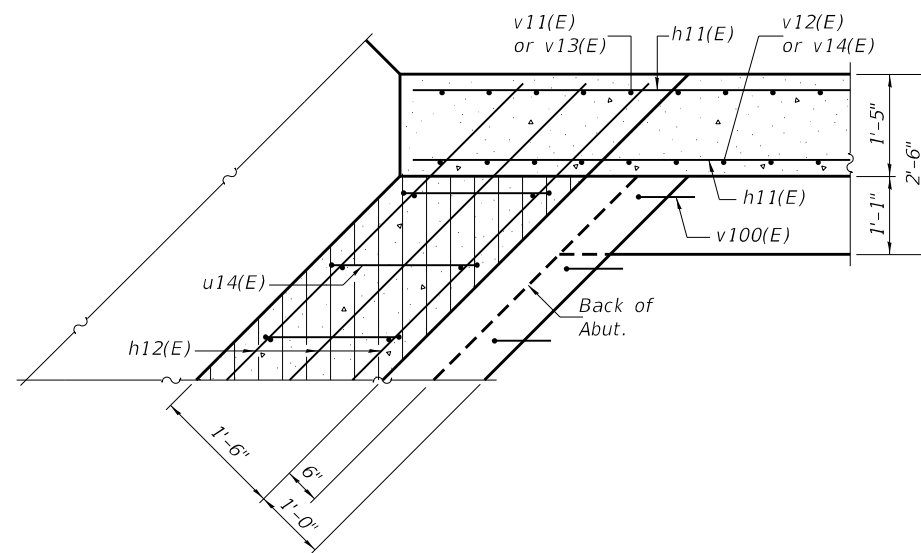
BAR v100(E)



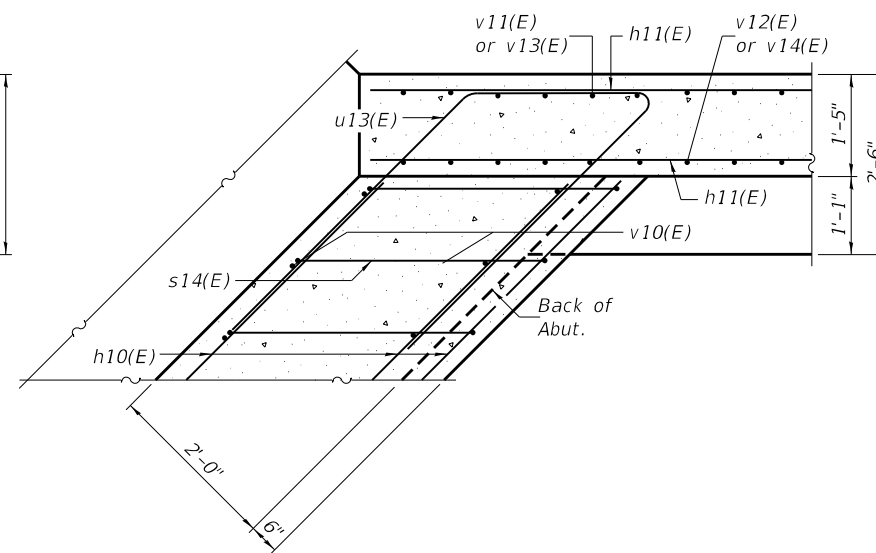
BAR v12(E)



BAR v14(E)



SECTION H-H



SECTION I-I

PILE DATA

Type: Metal Shell PP14 x 0.312"
 Nominal Required Bearing: 247 k
 Factored Resistance Available: 135 k
 Est. Length: 60'
 No. Production Piles: 24
 No. Test Piles: 1

(Sheet 3 of 3)

MODEL: D:\h\h\AS-39CS-C-R>30_12-30-2021_059_V059_IL111_R\Drawings\CAD_Sheets\0600347-76\49-2073-75-sub\31-33-35.dgn
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AS-39CS-C-R>30 12-30-2021



USER NAME = tkrupep	DESIGNED - KMM	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - KHL	REVISED -
PLOT DATE = 12/8/2023	CHECKED - BGH	REVISED -
	DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
 STRUCTURE NO. 060-0347

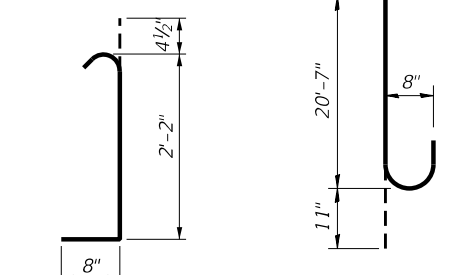
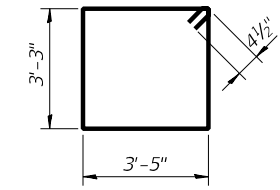
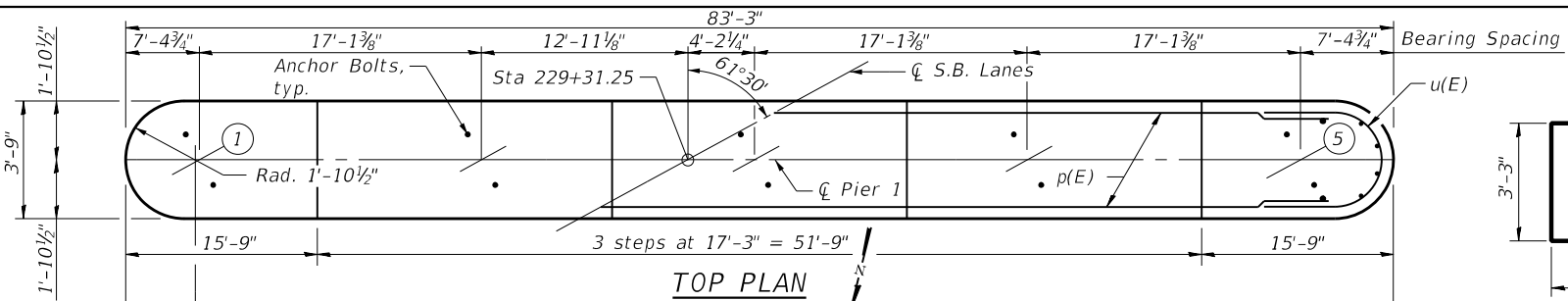
SCALE: SHEET 35 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	75
				CONTRACT NO. 76H49
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 38 of 41.

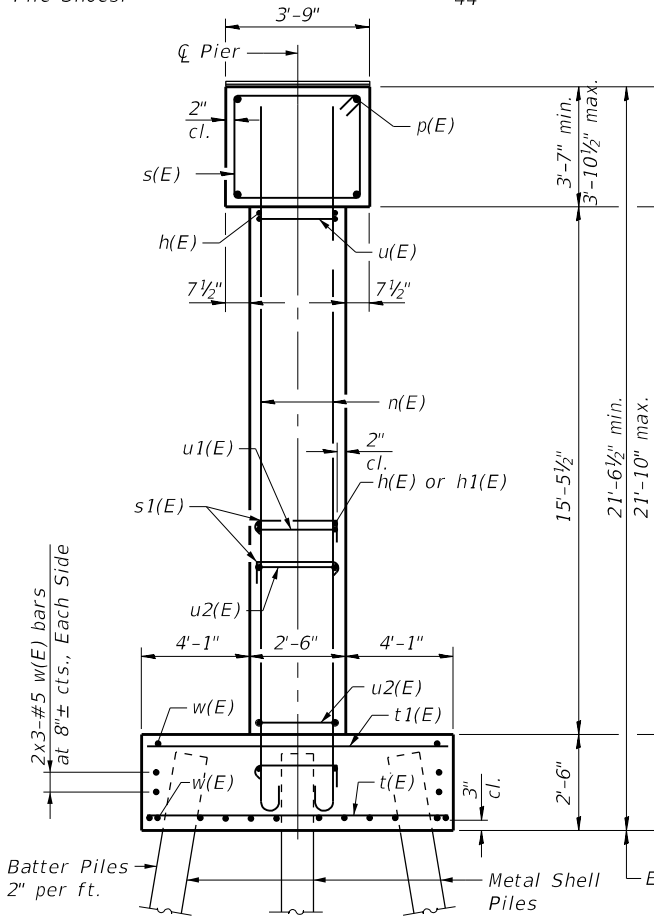
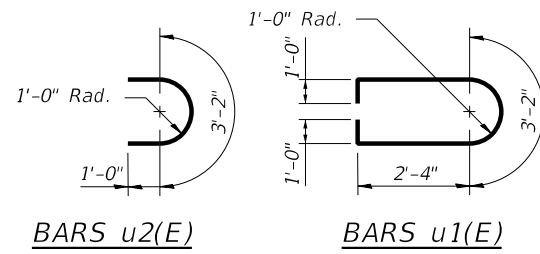
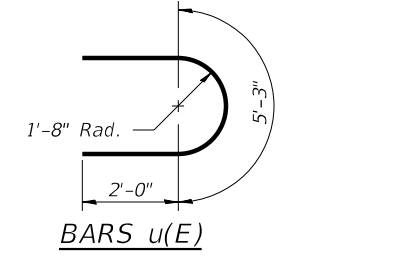
PILE DATA

Type: Metal Shell PP14 x 0.312"
 Nominal Required Bearing: 308 k
 Factored Resistance Available: 169 k
 Est. Length: 47'
 No. Production Piles: 43
 No. Test Piles: 1
 Pile Shoes: 44

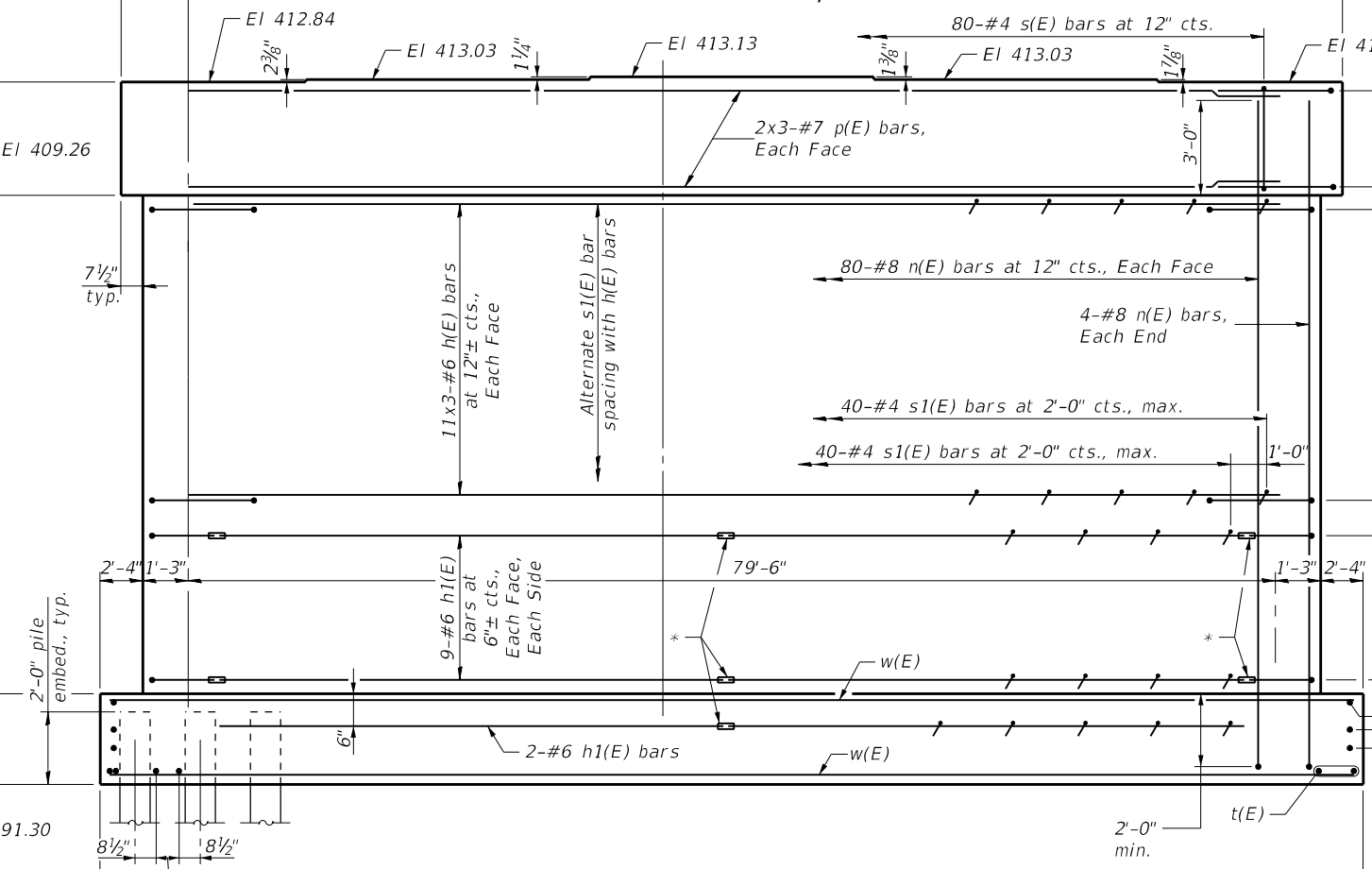


MIN. BAR LAP

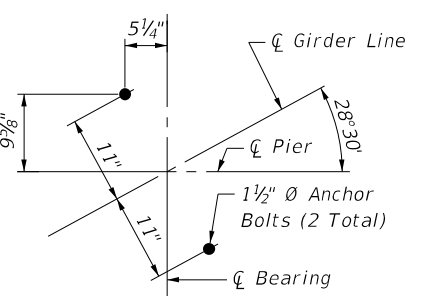
BAR	LAP
#5	3'-2"
#6	3'-10"
#7	4'-5"



END VIEW

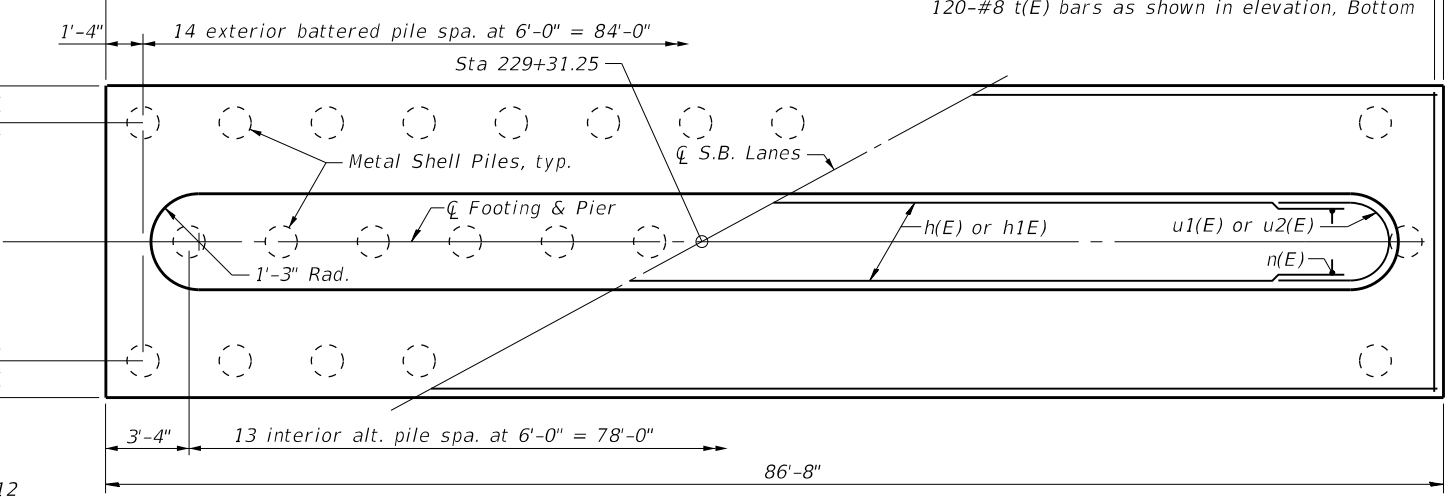


ELEVATION (Looking South)



ANCHOR BOLT LAYOUT

PIER 1



FOOTING PLAN

PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	66	#6	29'-1"	—
h1(E)	40	#6	38'-9"	—
n(E)	168	#8	21'-6"	U
p(E)	12	#7	29'-6"	—
s(E)	80	#4	14'-1"	□
s1(E)	880	#4	3'-3"	J
t(E)	120	#8	10'-2"	—
t1(E)	87	#4	10'-4"	—
u(E)	8	#4	9'-3"	U
u1(E)	22	#6	9'-10"	U
u2(E)	18	#6	5'-2"	U
w(E)	84	#5	30'-11"	—
Cofferdam Excavation		Cu Yd	673.5	
Concrete Structures		Cu Yd	243.9	
Reinforcement Bars, Epoxy Coated		Pound	25,330	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	2,021	
Driving Piles		Foot	2,021	
Test Pile, Metal Shell		Each	1	
Pile Shoes		Each	44	
Cofferdam Type 2 (Location 1)		Each	1	
Seal Coat Concrete		Cu Yd	255	
Mechanical Splicers		Each	56	

Note:
 Following removal of the existing pier footing, locate the existing piles. Any proposed piles which must be repositioned more than the 6" allowed by Standard Specifications Article 512.12 should be reported to the Engineer for resolution by the Designer and the Bureau of Bridges and Structures.

PC-1 2-17-2017



USER NAME = tkrupep	DESIGNED - KMM	REVISED - 12/21/2023 KHL
PLOT SCALE = 2.0000' / in.	DRAWN - KHL	REVISED -
PLOT DATE = 12/20/2023	CHECKED - BGH	REVISED -
	DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER 1
 STRUCTURE NO. 060-0347

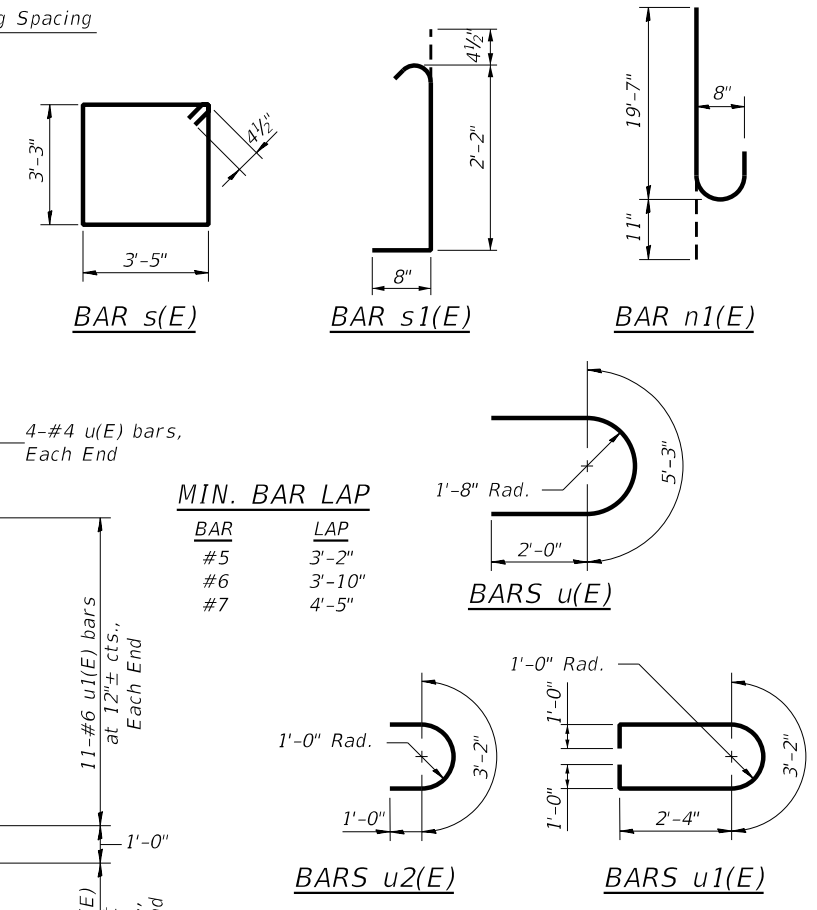
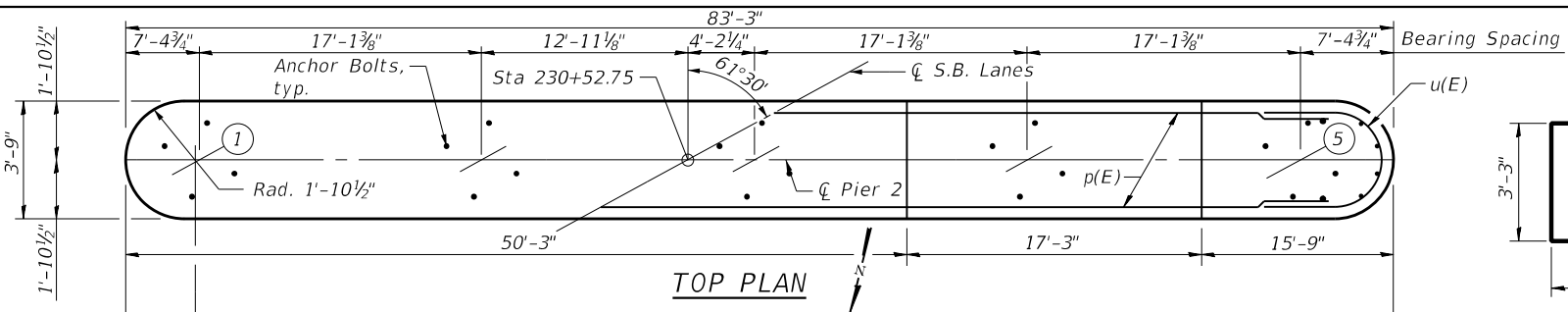
SCALE: SHEET 36 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	76
CONTRACT NO. 76H49				
ILLINOIS		FED. AID PROJECT		

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 38 of 41.

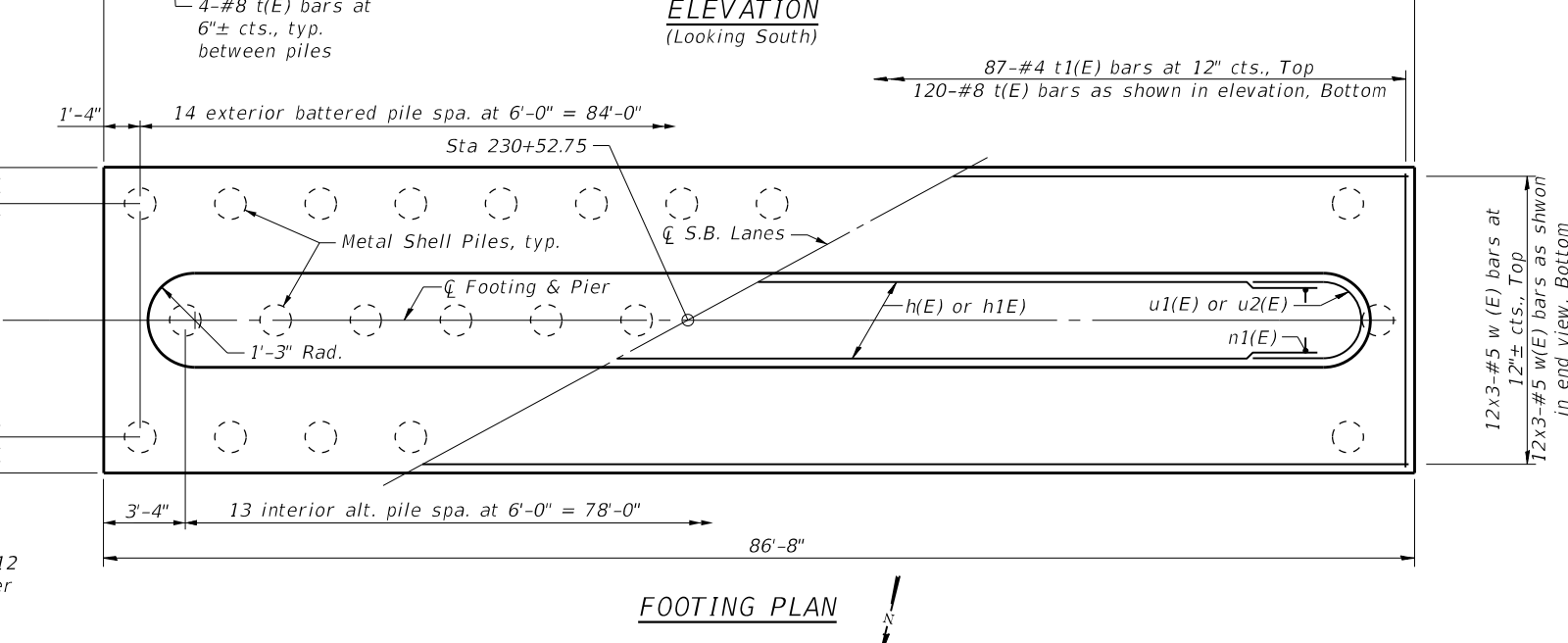
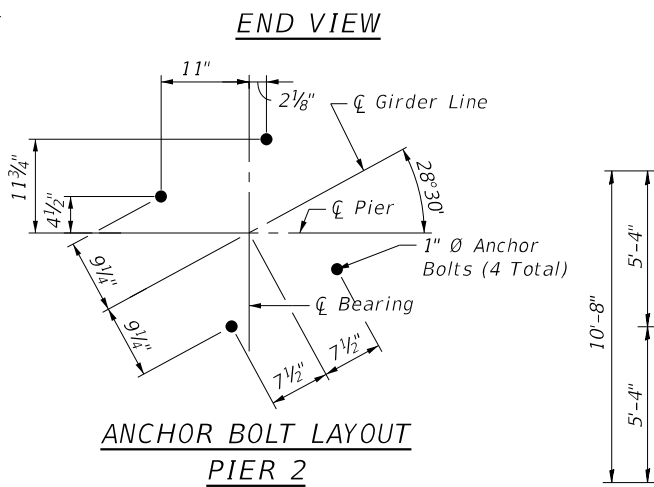
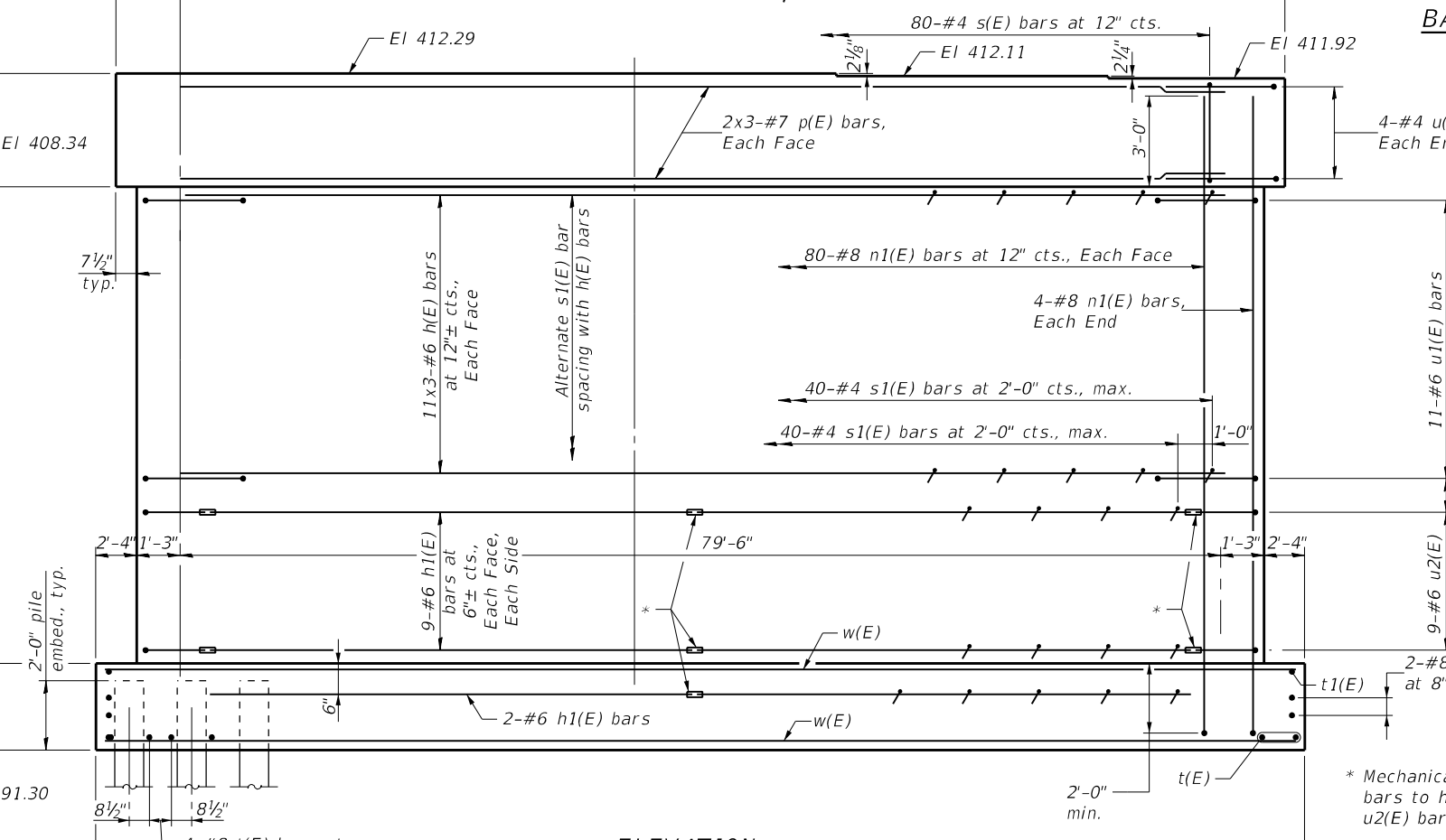
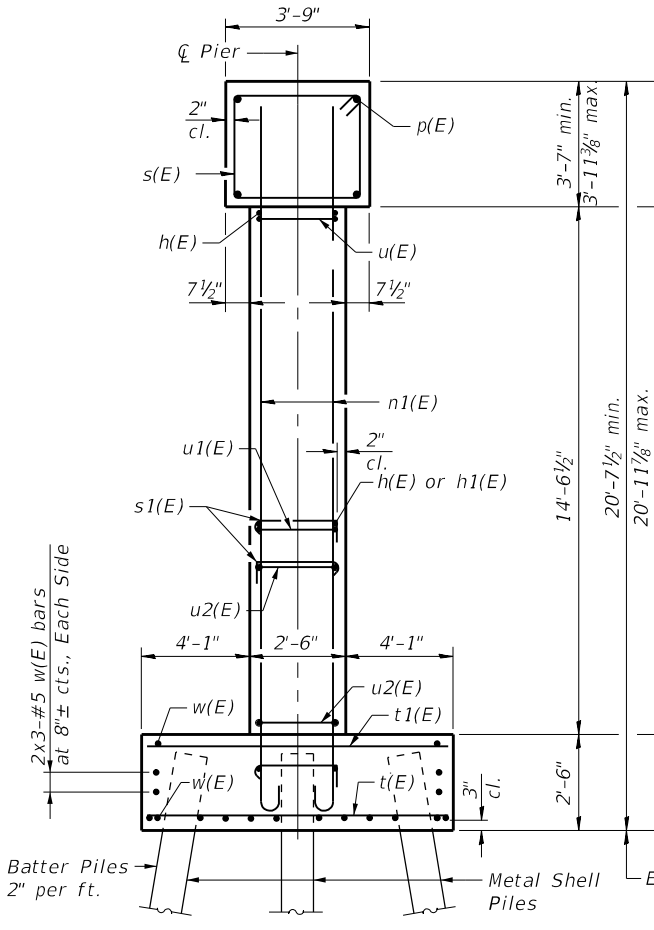
PILE DATA

Type: Metal Shell PP14 x 0.312"
 Nominal Required Bearing: 412 k
 Factored Resistance Available: 226 k
 Est. Length: 47'
 No. Production Piles: 43
 No. Test Piles: 1
 Pile Shoes: 44



MIN. BAR LAP

BAR	LAP
#5	3'-2"
#6	3'-10"
#7	4'-5"



**PIER 2
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h(E)	66	#6	29'-1"	—	
h1(E)	40	#6	38'-9"	—	
n1(E)	168	#8	20'-6"	U	
p(E)	12	#7	29'-6"	—	
s(E)	80	#4	14'-1"	□	
s1(E)	880	#4	3'-3"	J	
t(E)	120	#8	10'-2"	—	
t1(E)	87	#4	10'-4"	—	
u(E)	8	#4	9'-3"	U	
u1(E)	22	#6	9'-10"	U	
u2(E)	18	#6	5'-2"	U	
w(E)	84	#5	30'-11"	—	
Cofferdam Excavation				Cu Yd	673.5
Concrete Structures				Cu Yd	238.3
Reinforcement Bars, Epoxy Coated				Pound	24,880
Furnishing Metal Shell Piles 14" x 0.312"				Foot	2,021
Driving Piles				Foot	2,021
Test Pile, Metal Shell				Each	1
Pile Shoes				Each	44
Cofferdam Type 2 (Location 2)				Each	1
Seal Coat Concrete				Cu Yd	255
Mechanical Splicers				Each	56

Note:
 Following removal of the existing pier footing, locate the existing piles. Any proposed piles which must be repositioned more than the 6" allowed by Standard Specifications Article 512.12 should be reported to the Engineer for resolution by the Designer and the Bureau of Bridges and Structures.

PC-1 2-17-2017

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 FILE NAME: 111111.dwg
 PLOT DATE: 12/20/2023



USER NAME	DESIGNED	REVISION	DATE
tkrupep	KMM	12/21/2023	KHL
	KHL		
	BGH		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 2
STRUCTURE NO. 060-0347**

SCALE: SHEET 37 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	77
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 1 of 3
Date 8/9,10,11/2021

ROUTE Route 111 DESCRIPTION IL Route 111 over Cahokia Canal LOGGED BY SCI
SECTION 6-1BR LOCATION Madison County, Illinois Lat 38.66569 Long -90.09075
COUNTY Madison DRILLING METHOD CME 550 w/HSA, Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT			N/A ft	395.8 ft	394.0 ft	21.0 ft	21.0 ft	N/A ft					
FILL: Brown, CLAY LOAM (A-7), moist, soft																
		1	1.9	19									1	0.4	29	
		3	B/20										1	B/20		
FILL: Gray, SILTY CLAY LOAM (A-6), moist, stiff																
		1	2.6	20									WOH	0.5	33	
		3	S/15										WOH	B/20		
		6											WOH			
FILL: Gray, CLAY LOAM (A-7), moist																
		1	2.1	17									WOH	0.6	30	
		8	S/15										1	B/20		
		12											1			
FILL: Gray, SILT (A-4), moist, very stiff																
		1	0.8	23									WOH	0.3	34	
		4	S/10										WOH	B/20		
		4											WOH			
SILTY CLAY LOAM: Gray, moist, (A-4) Grain Size Analysis performed																
		1	0.5	32									WOH	0.4	52	
		1	B/20										1			
SILTY CLAY: Gray, trace shells, moist, very soft, (A-6)																
		1	0.5	34									WOH	0.4	52	
		1	P										WOH	B/20		
		1											WOH			
CLAY: Gray, moist, soft, (A-7)																
		1	0.6	24									WOH	0.4	64	
		1	B/20										WOH	B/20		
		2											WOH			
		ST											WOH	0.4	64	
													WOH	B/20		
													WOH			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 2 of 3
Date 8/9,10,11/2021

ROUTE Route 111 DESCRIPTION IL Route 111 over Cahokia Canal LOGGED BY SCI
SECTION 6-1BR LOCATION Madison County, Illinois Lat 38.66569 Long -90.09075
COUNTY Madison DRILLING METHOD CME 550 w/HSA, Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT			N/A ft	395.8 ft	394.0 ft	21.0 ft	21.0 ft	N/A ft					
CLAY: Gray, trace shells, moist, very soft, (A-7) (continued)																
SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1) (continued)																
SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-3) Grain Size Analysis performed																
SAND: Gray, fine to coarse grained, moist, loose, (A-1) Grain Size Analysis performed																
CLAY: Gray, trace wood, moist, medium stiff, (A-7)																
SAND: Gray, fine to coarse grained, moist, medium dense, (A-3)																
SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1)																
CLAY: Gray, moist, soft, (A-7)																
SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1)																
FINE GRAINED, TRACE ORGANICS, DENSE																

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
SCI Engineering

SOIL BORING LOG

Page 3 of 3
Date 8/9,10,11/2021

ROUTE Route 111 DESCRIPTION IL Route 111 over Cahokia Canal LOGGED BY SCI
SECTION 6-1BR LOCATION Madison County, Illinois Lat 38.66569 Long -90.09075
COUNTY Madison DRILLING METHOD CME 550 w/HSA, Mud Rotary HAMMER TYPE Automatic

STRUCT. NO.	BORING NO.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT			N/A ft	395.8 ft	394.0 ft	21.0 ft	21.0 ft	N/A ft					
SAND: Gray, fine to coarse grained, trace organics, moist, dense, (A-3) (continued)																
Medium dense, no organics																
Trace fine gravel																
FINE GRAINED, TRACE COARSE GRAVEL																
WEATHERED LIMESTONE: Gray No recovery.																
SAND: Gray, fine to coarse grained, trace fine to coarse gravel, moist, medium dense, (A-1)																

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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DRAWN - KHL
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CHECKED - BGH
PLOT DATE = 12/8/2023
DATE - 12/08/23

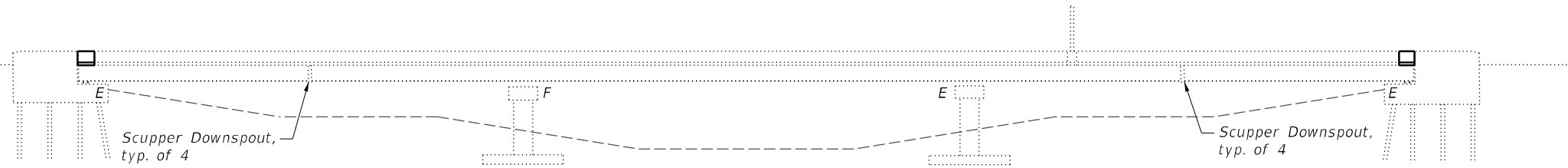
REVISOR -
REVISION -
REVISOR -
REVISION -
REVISOR -
REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 060-0347

SCALE: SHEET 40 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	80
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



ELEVATION

GENERAL NOTES

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

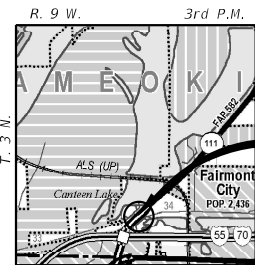
Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Bridge Deck Concrete Sealer shall be placed on existing bridge deck and top/inside faces of existing parapet (full length). The cost of cleaning existing concrete shall be included in Bridge Deck Concrete Sealer.

Concrete Sealer shall be placed on 2'-10" wide abutment seats and vertical 2' face of the cap below the seats.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.



STRUCTURE LOCATION

LOCATION SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO, 17th Ed.

DESIGN STRESSES

FIELD UNITS

$f'c$ = 4,000 psi (Superstructure Concrete)
 f_y = 60,000 psi (reinf.)

BRIDGE SHEETS

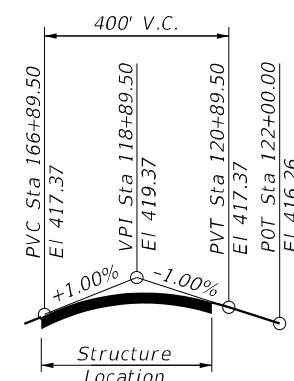
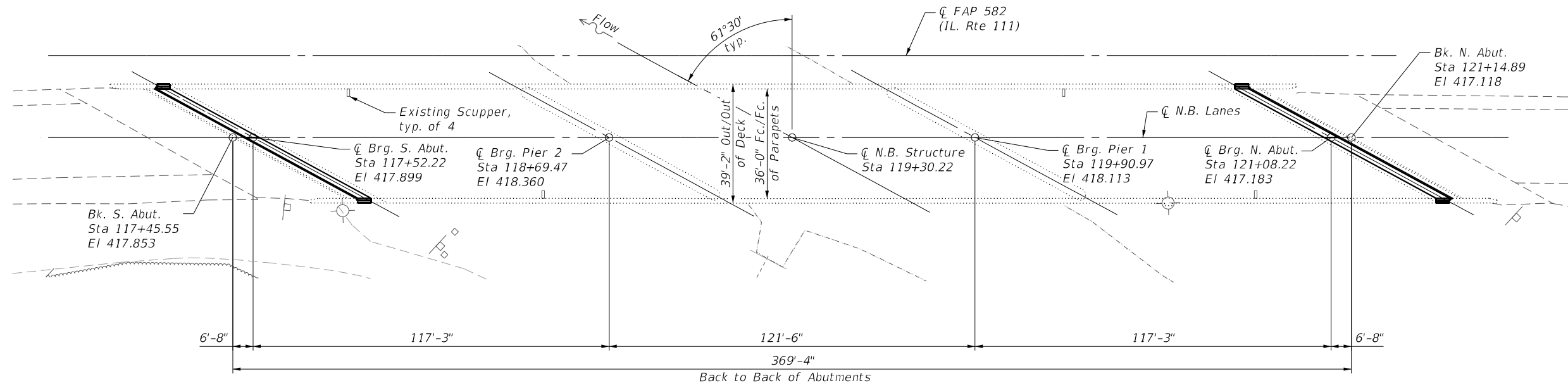
1. General Plan & Elevation
2. Concrete Removal
3. Concrete Construction Details
4. Parapet Details & Bill of Material
5. Joint Repair Details
6. Bar Splicer Assembly & Mechanical Splicer Details

SCOPE OF WORK

1. Replace joints: Replace with polymer concrete and joint seal. Use Preformed Joint Seal.
2. Clean Scuppers.
3. Clean abutment seats and add concrete sealer.
4. Seal deck.

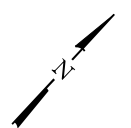
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu Yd	13.1
Concrete Superstructure	Cu Yd	13.8
Reinforcement Bars, Epoxy Coated	Pound	1,800
Bar Splicers	Each	16
Preformed Joint Seal 1 1/2"	Foot	77
Preformed Joint Seal 3"	Foot	77
Remove Existing Joint	Foot	156
Concrete Sealer	Sq Ft	743
Bridge Deck Concrete Sealer	Sq Ft	15,902
Cleaning Bridge Scuppers & Downspouts	Each	4
Cleaning Bridge Seats	Sq Ft	743
Polymer Concrete	Cu Ft	8.7



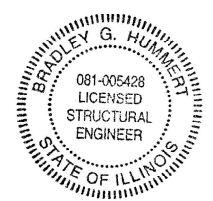
PROFILE GRADE
(Along \bar{C} N.B. FAP 582)

PLAN



GENERAL PLAN & ELEVATION
 NORTHBOUND IL RTE 111
 OVER CAHOKIA CANAL
 FAP RTE 582 - SECTION 6-23B-1
 MADISON COUNTY
 STATION 119+30.22
 STRUCTURE NO. 060-0244

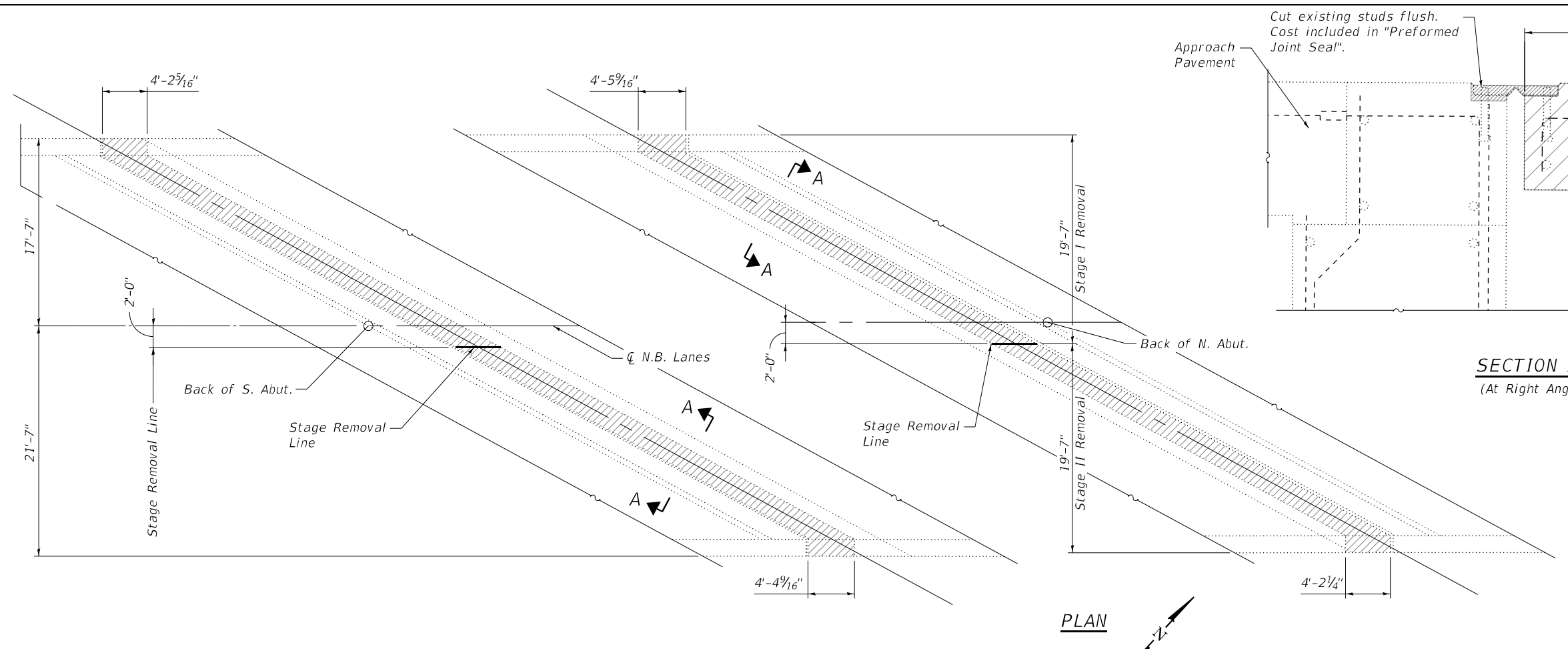
Bradley G. Hummert Date **12/6/23**
 Bradley G. Hummert
 Licensed Structural Engineer
 in Illinois No. 081-005428



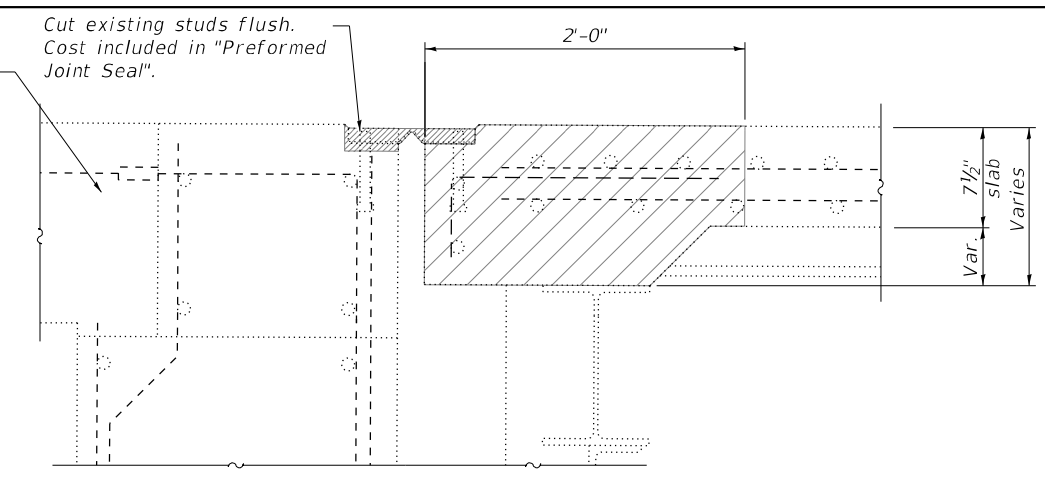
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 IL PROF DESIGN FIRM 184,000899	USER NAME = klauk PLOT SCALE = 2,0000 ' / in. PLOT DATE = 12/6/2023	DESIGNED - BGH DRAWN - KHL CHECKED - BIB DATE - 10/17/23	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.	F.A.P. RTE. = 582 SECTION = 6-23B-1 COUNTY = MADISON CONTRACT NO. 76H49	TOTAL SHEETS = 90 SHEET NO. = 82
	ILLINOIS FED. AID PROJECT						

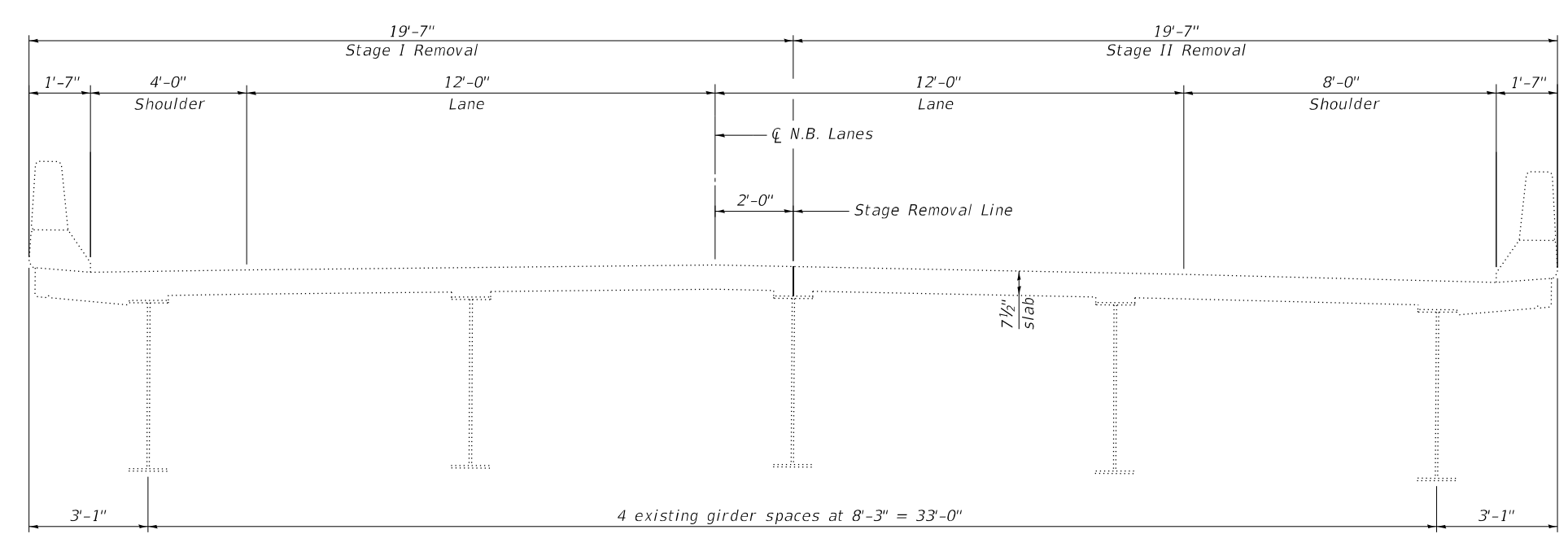


PLAN



SECTION A-A
(At Right Angles)

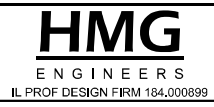
Notes:
 Clean and reuse existing reinforcement.
 See General Notes.
 Hatching indicates areas of Concrete Removal.



CROSS SECTION
(Shown at right angles near North Abutment.)

Note:
 1. See Roadway Plans for Maintenance of Traffic Details

MODEL Path: \\hmg\199_0218219_070_W07_IL_111_NB_BridgeRepair\Cadd_Sheets\0600244-76\48-32a-removal.dwg
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 CHECKED -
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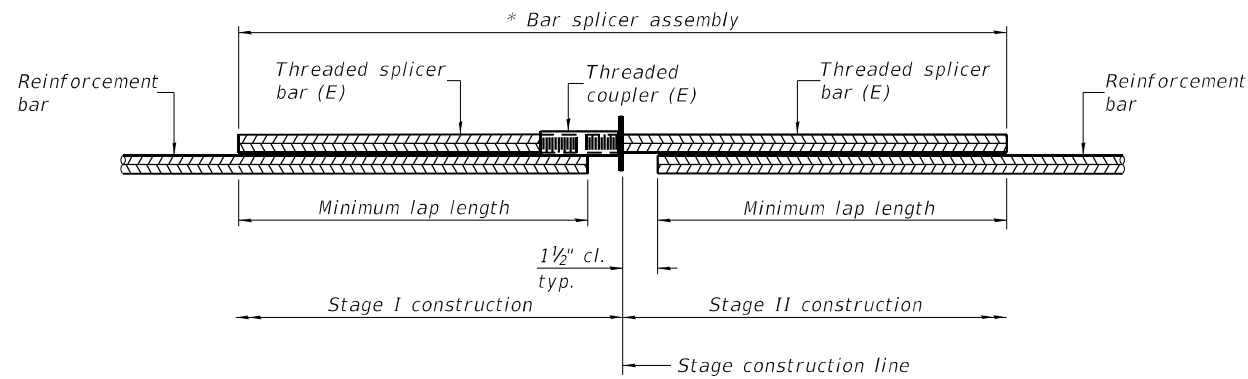
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL
 STRUCTURE NO. 060-0244

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	82a
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



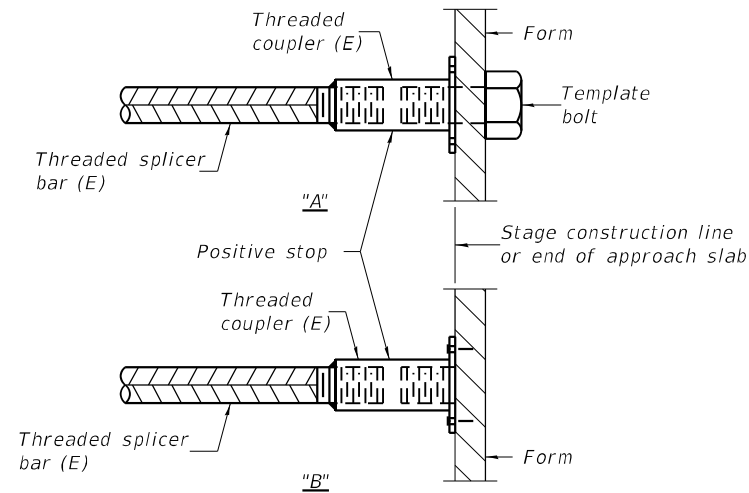
STANDARD BAR SPLICER ASSEMBLY PLAN

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
Ends of Deck	#5	16	4'-0"

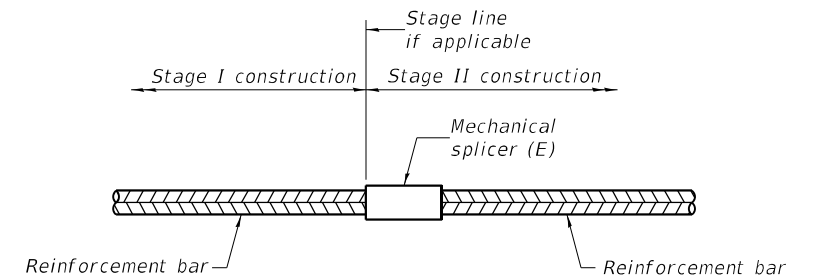


INSTALLATION AND SETTING METHODS

"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

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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 PLOT SCALE: 2.0000" = 1'-0"

BSD-1

2-1-2023



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PLOT SCALE = 2.0000" / 1'-0"	DRAWN -	REVISED -
PLOT DATE = 12/16/2023	CHECKED -	REVISED -
	DATE = 10/17/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY & MECHANICAL SPLICER DETAILS
STRUCTURE NO. 060-0244

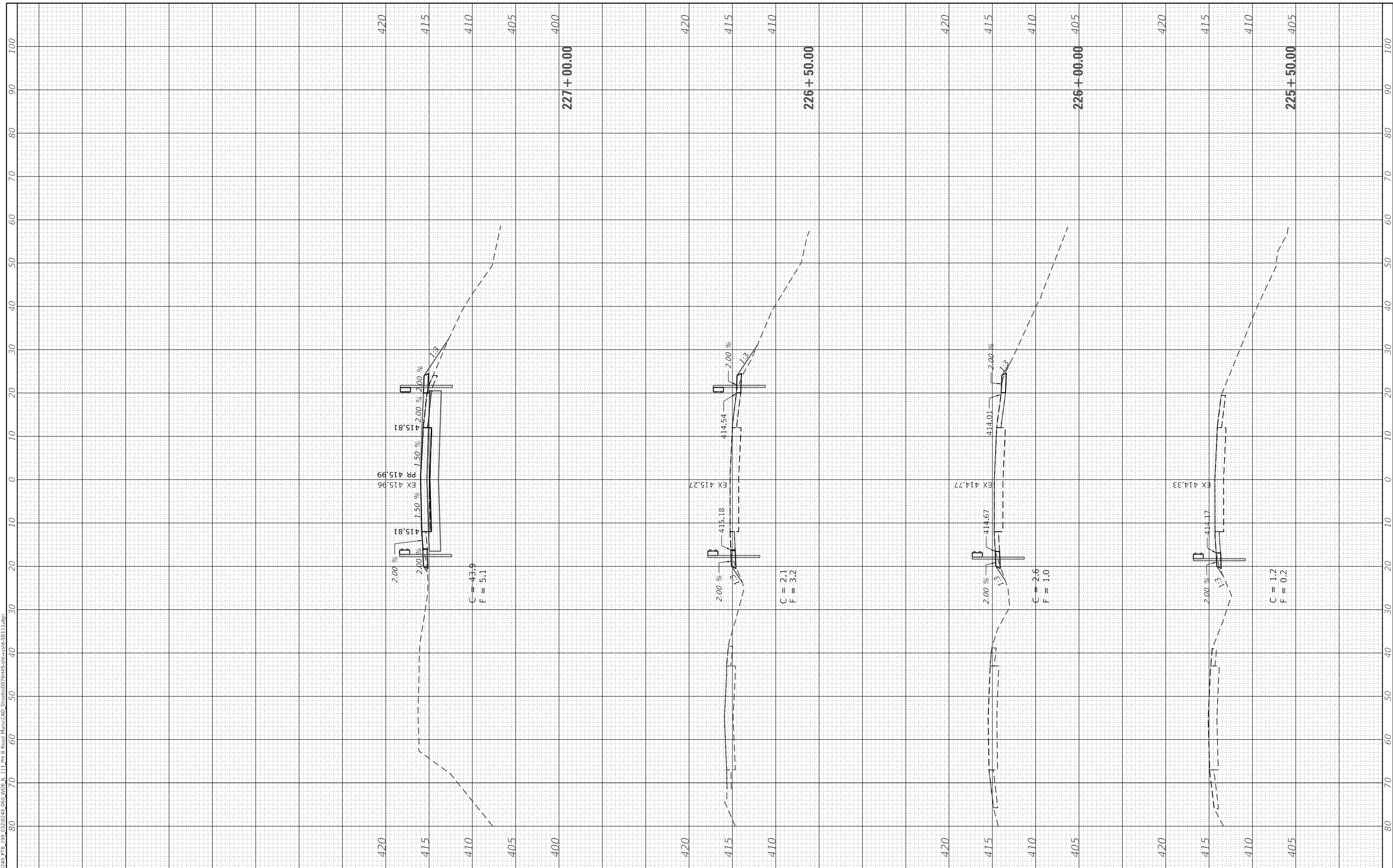
SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	84a
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

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

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

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DRAWN -	BMR
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DATE -	10/17/23

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SB IL 111**

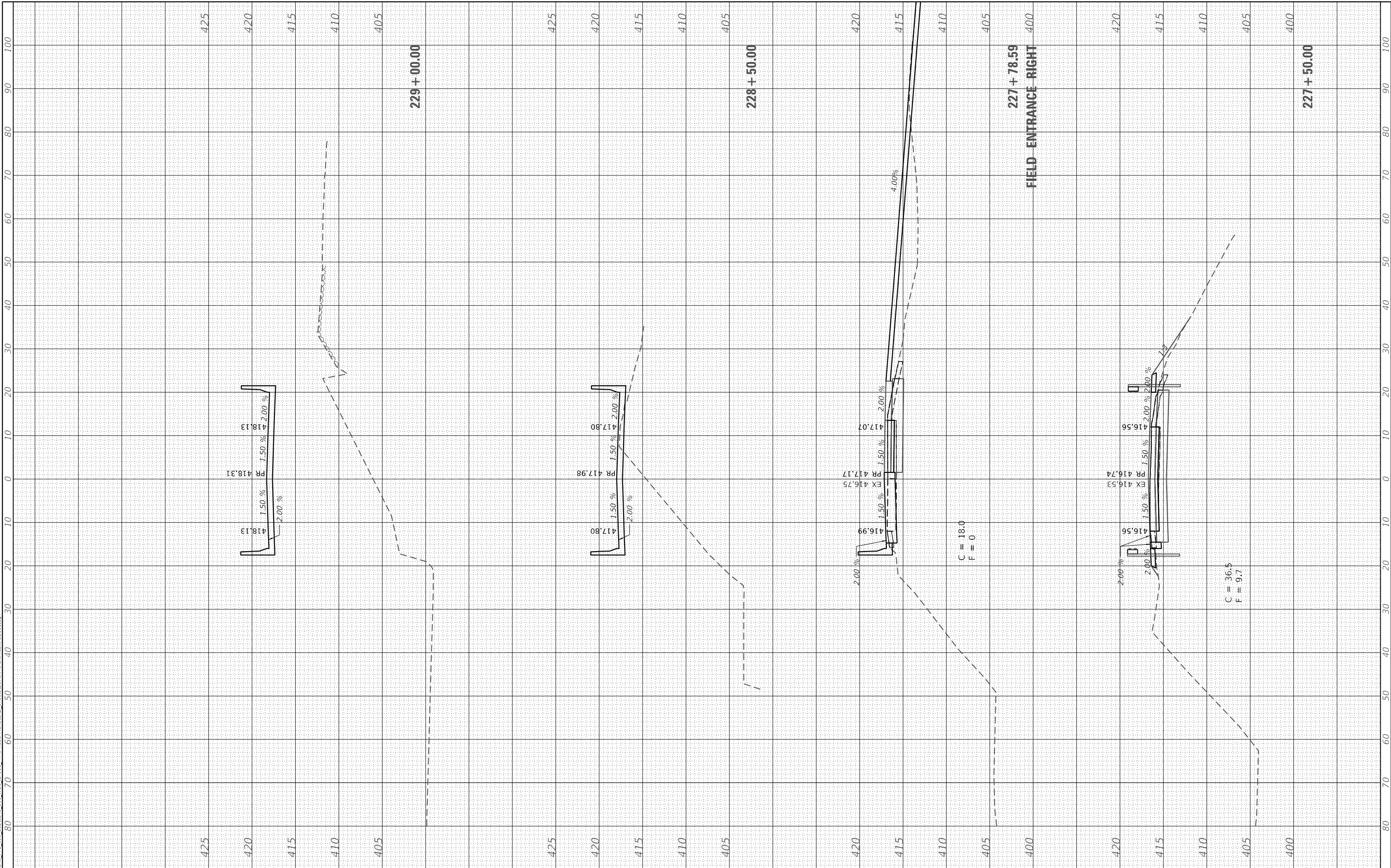
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582	6-23B-1	MADISON	90	85
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

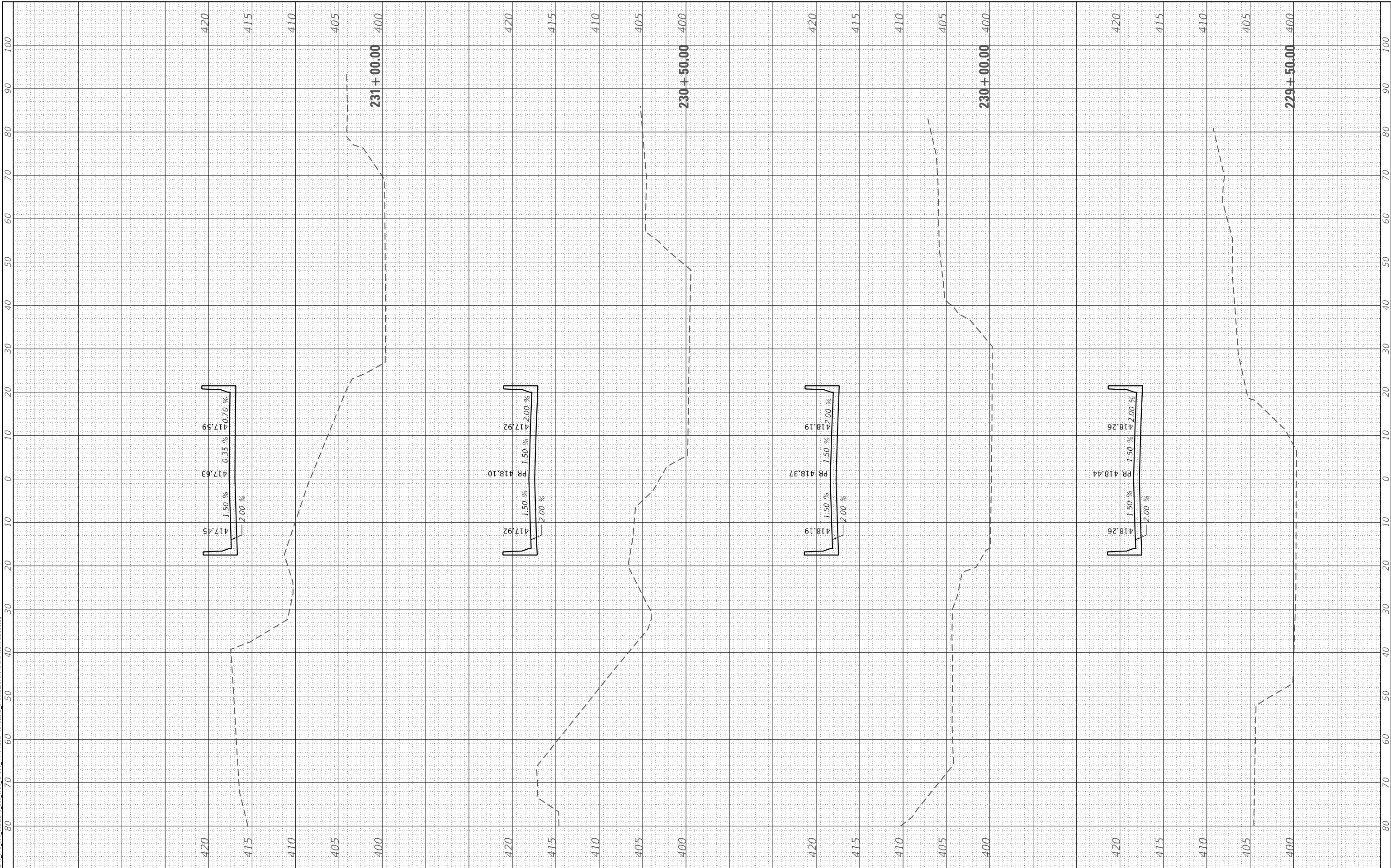
CROSS SECTIONS SB IL 111	
SCALE: 1"=10'V	SHEET 2 OF 5 SHEETS
STA. 227+50.00	TO STA. 229+00.00

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 86
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	

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

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	TEMPLATE		
	AREAS CHECKED		

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 PLOT DATE = 10/17/2023

DESIGNED - TAK
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 CHECKED - TAK
 DATE - 10/17/23

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SB IL 111

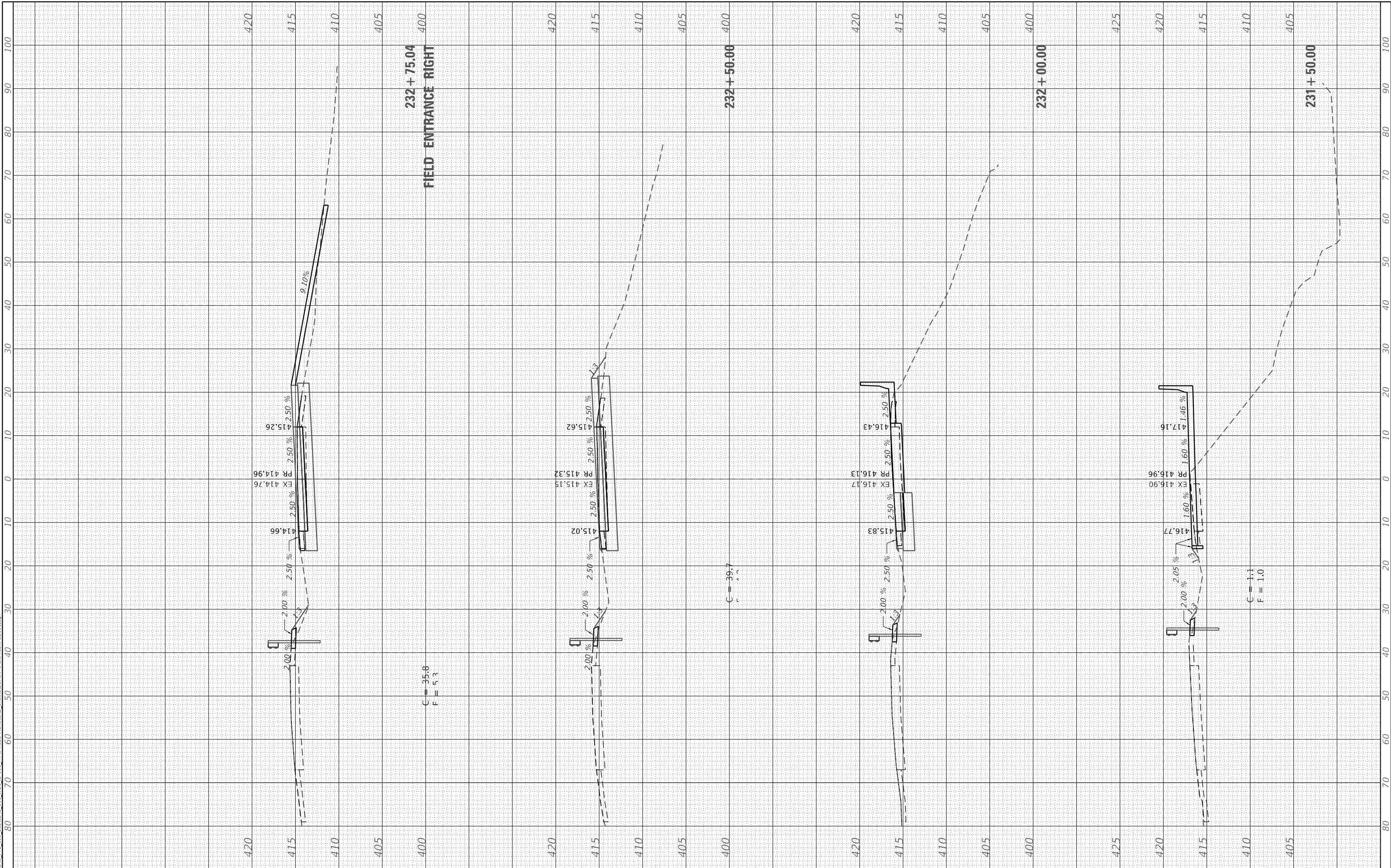
SCALE: 1"=10'V SHEET 3 OF 5 SHEETS STA. 229+50.00 TO STA. 231+00.00

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 87
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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PLOT DATE = 10/17/2023	CHECKED - TAK	REVISIONS
	DATE - 10/17/23	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
SB IL 111

SCALE: 1"=10'V SHEET 4 OF 5 SHEETS STA. 231+50.00 TO STA. 232+75.04

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 88
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	

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

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

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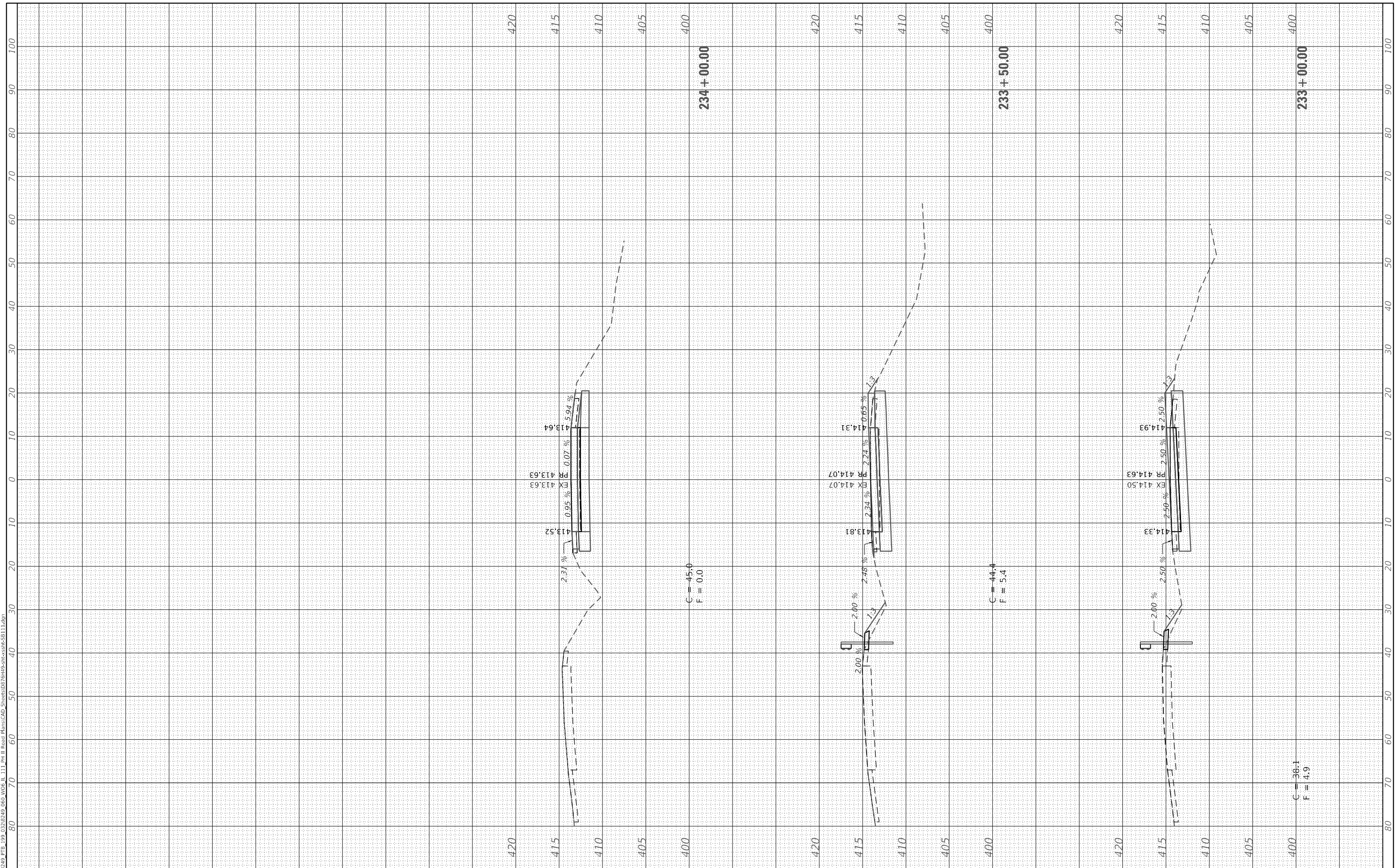
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SB IL 111

SCALE: 1"=10'V SHEET 5 OF 5 SHEETS STA. 233+00.00 TO STA. 234+00.00

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 89
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



C = 45.0
 F = 0.0

C = 44.4
 F = 5.4

C = 36.1
 F = 4.9

234 + 00.00

233 + 50.00

233 + 00.00

FINAL SURVEY NO.	SURVEYED	DATE
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AREAS CHECKED	TEMPLATE	
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	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
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	CHECKED	

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 CHECKED - BMR
 DATE - 10/17/23

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 CROSSOVER PAVEMENT

SCALE: 1"=10'V SHEET 1 OF 1 SHEETS STA. 32+50.00 TO STA. 35+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	90
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

