

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

* 90 + 3 = 93 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FEDERAL PROJECT NUMBER:
HBFP-K915(853)

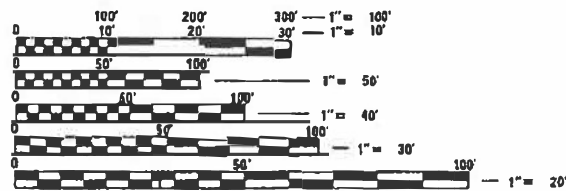
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
SOUTHBOUND BRIDGE REPLACEMENT
AND NORTHBOUND BRIDGE MAINTENANCE
SN 060-0347 & SN 060-0244
MADISON COUNTY

C-98-037-24
R. 9 W

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

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



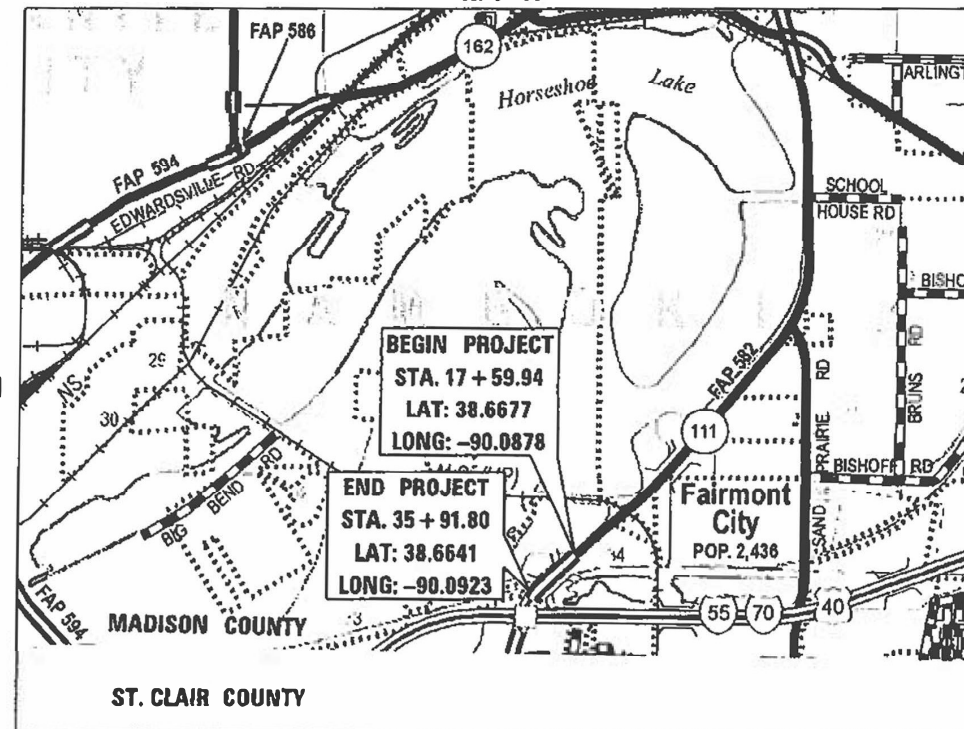
Tyler A. Kruep
TYLER A. KRUEP, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-071547
RESPONSIBLE FOR SHEETS 1-28, 32-34, 85-90



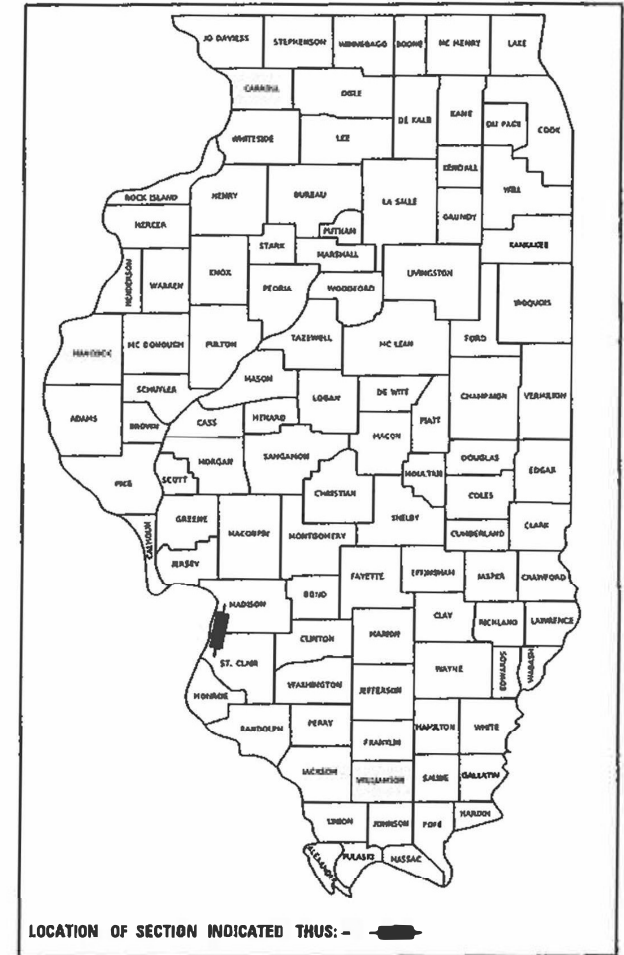
Bradley G. Hammert
BRADLEY G. HAMMERT, P.E., S.E.
ILLINOIS REGISTERED ENGINEER NO. 081-005428
RESPONSIBLE FOR SHEETS 41-84



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



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



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 19, 2023
Kurt Brown
REGIONAL ENGINEER
December 8, 2023
S.A. Etk
ENGINEER OF DESIGN AND ENVIRONMENT
December 8, 2023
Stephen McNeill
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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420001-10	PAVEMENT JOINTS
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420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
483001-06	PCC SHOULDERS
515001-04	NAME PLATE FOR BRIDGES
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604001-05	FRAME AND LIDS, TYPE 1
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701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
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701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH TRAFFIC
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780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
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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.

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	
	RINDFR	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
20200100	EARTH EXCAVATION	CU YD	555	555		
20800150	TRENCH BACKFILL	CU YD	16	16		
25000200	SEEDING, CLASS 2	ACRE	0.5	0.5		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25		
25100115	MULCH, METHOD 2	ACRE	0.5	0.5		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	28	28		
28000400	PERIMETER EROSION BARRIER	FOOT	807	807		
28000500	INLET AND PIPE PROTECTION	EACH	2	2		
28100107	STONE RIPRAP, CLASS A4	SQ YD	558	558		
28200200	FILTER FABRIC	SQ YD	558	558		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1176	1176		
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	400	400		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	3
			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
31200500	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	744	744		
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	431	431		
35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	400	400		
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	222	222		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50	50		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1674	1674		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	384	384		
42000400	PORTLAND CEMENT CONCRETE PAVEMENT 9"	SQ YD	527	527		
42001300	PROTECTIVE COAT	SQ YD	1355	1355		
44000100	PAVEMENT REMOVAL	SQ YD	1506	1506		
44004250	PAVED SHOULDER REMOVAL	SQ YD	630	630		
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	289	289		
48300400	PORTLAND CEMENT CONCRETE SHOULDERS 9"	SQ YD	444	444		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	4
			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	104.4	104.4		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1		
50500505	STUD SHEAR CONNECTORS	EACH	10780	10780		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	245490	243690	1800	

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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
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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

REV. - MS

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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

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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	4000	4000		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	4000	4000		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	7	7		

* SPECIALTY ITEM
Ø 0042

REV. - MS

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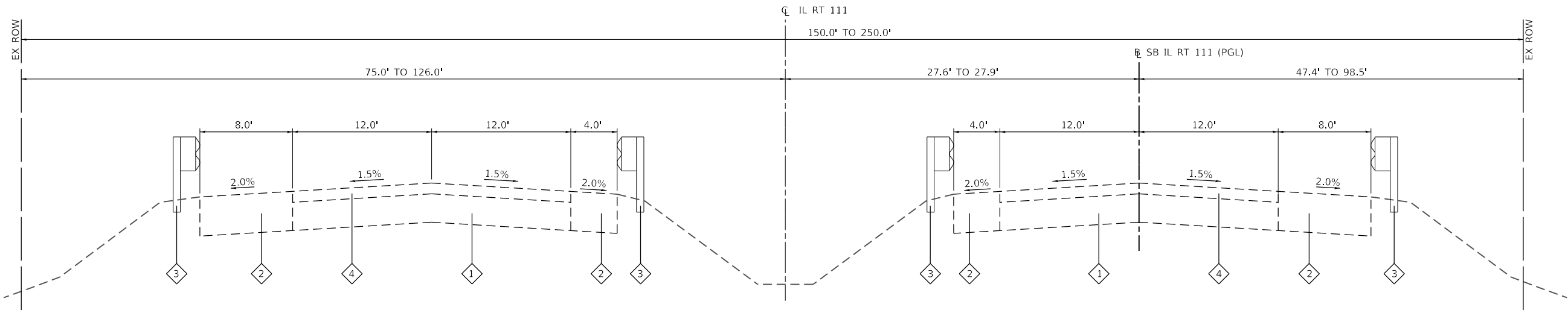
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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-1	MADISON	90	10
			CONTRACT NO. 76H49	
		ILLINOIS FED. AID PROJECT		



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

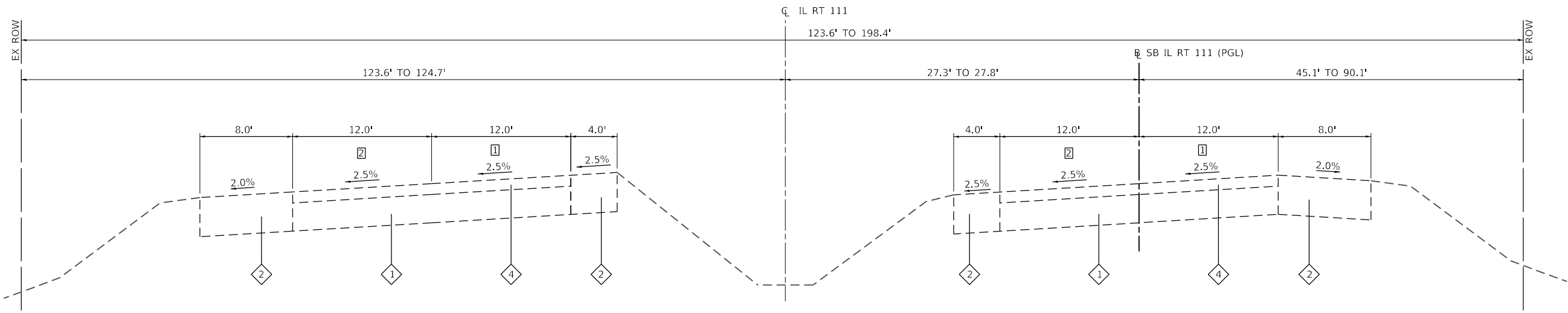
BRIDGE OMISSION
STA. 228+36 TO STA. 231+47

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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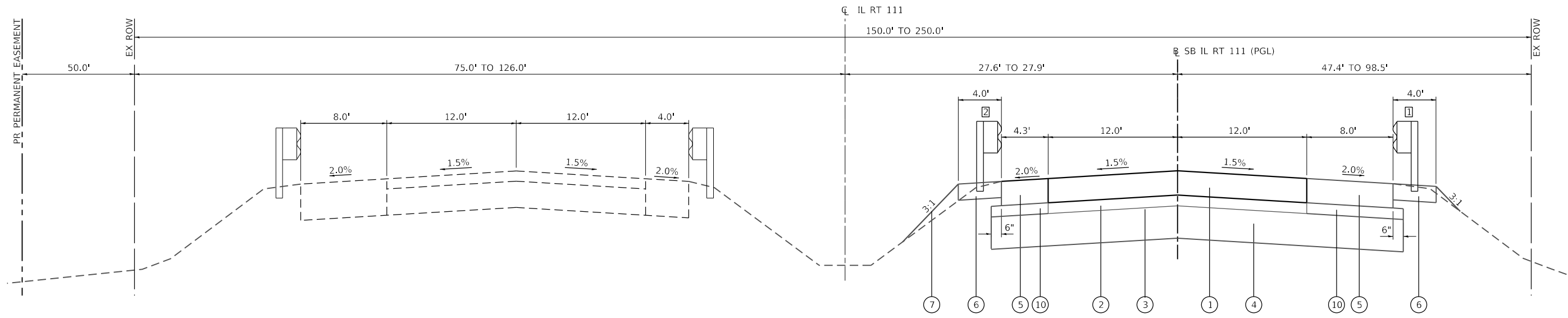
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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				

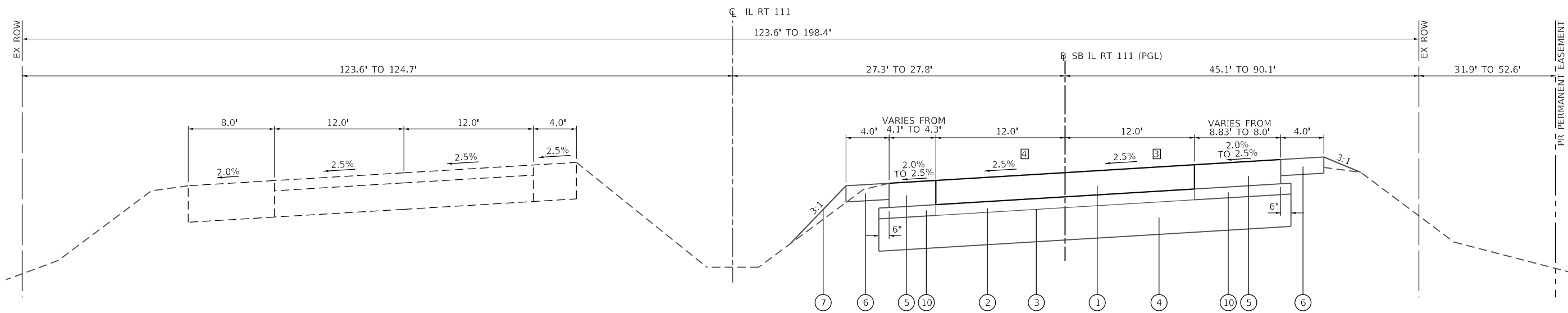


PROPOSED TYPICAL SECTION

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"

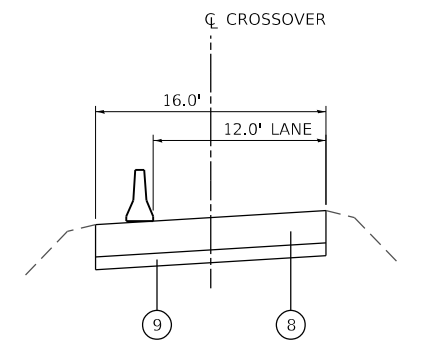
TYPICAL SECTION NOTES

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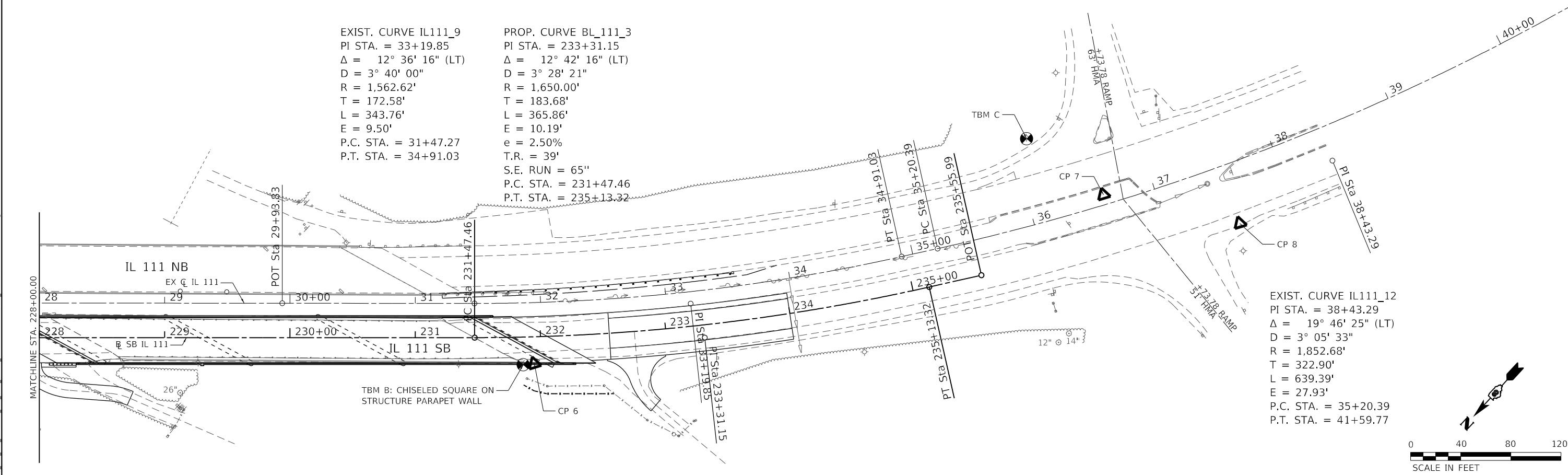
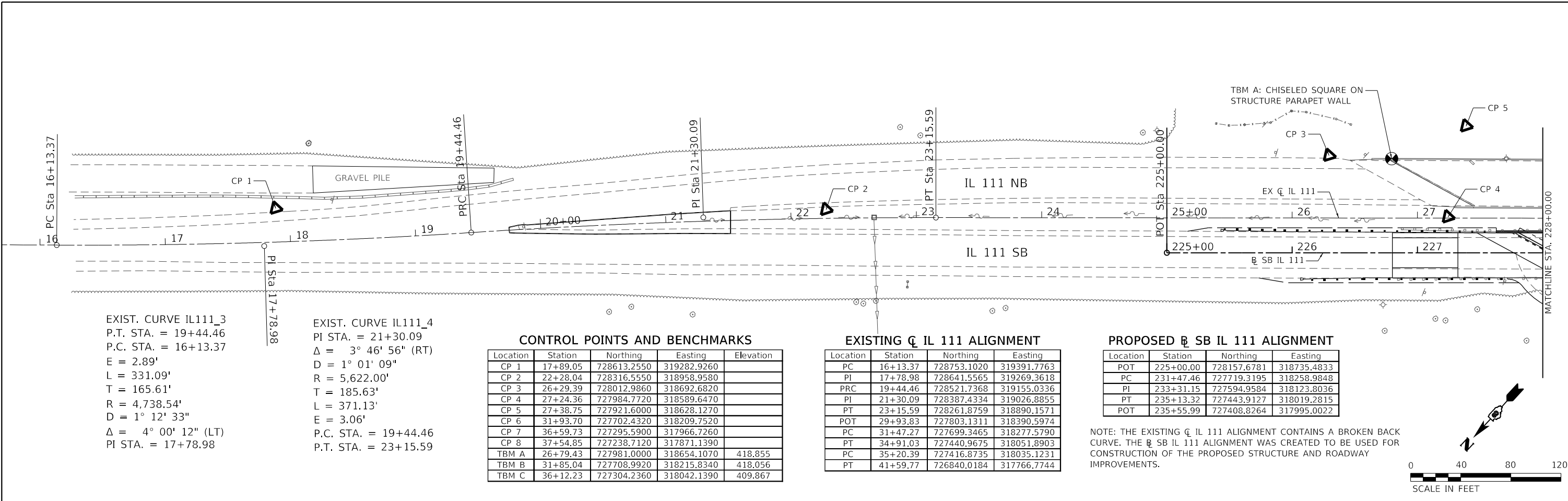
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PLOT DATE = 10/17/2023	CHECKED - TAK	REVISED -
	DATE - 10/17/23	REVISED -

**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-I	MADISON	90	15
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



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	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

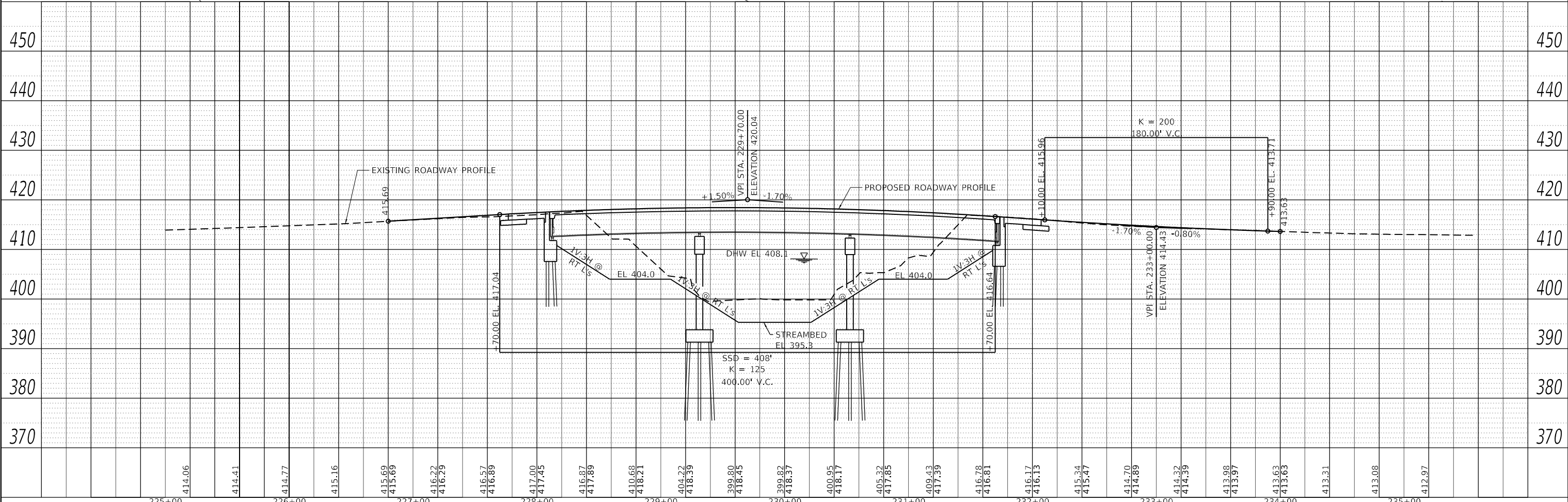
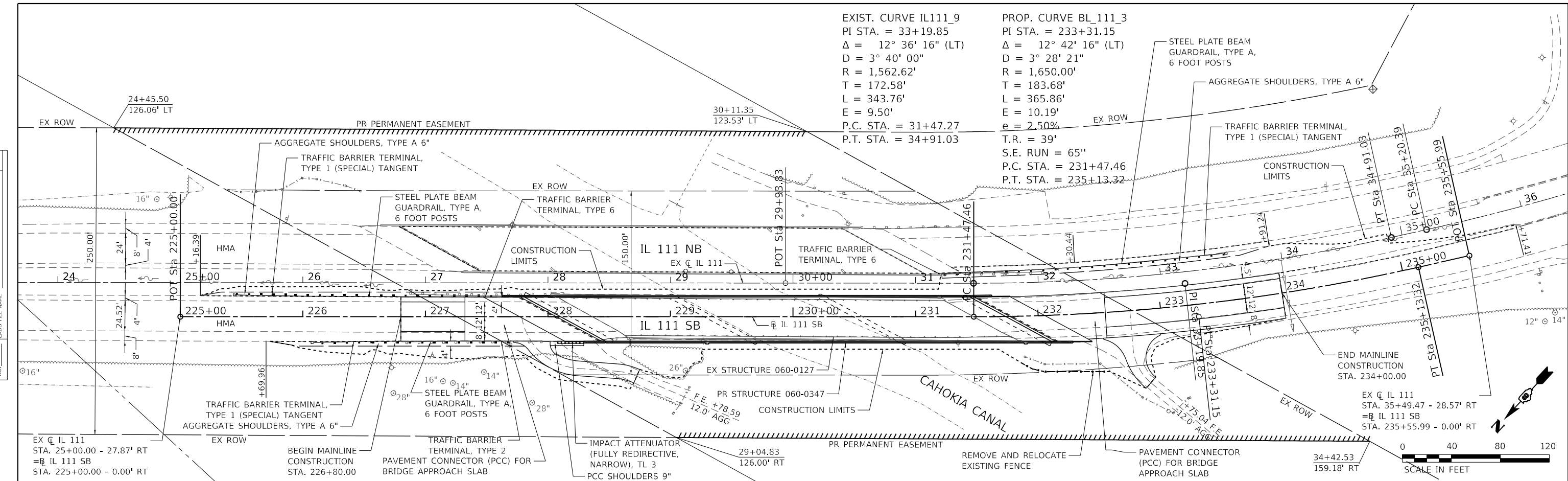
ALIGNMENTS, TIES, AND BENCHMARKS

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	16
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	DATE
	NO.
	FILE NAME

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES
	CHECKED
	STRUCTURE
	NOTATION
	DATE
	NO.
	FILE NAME



STAGE CONSTRUCTION NOTES

TRAFFIC CONTROL DEVICES ALONG IL-111 IN THE PROJECT LOCATION SHALL NOT INTERFERE WITH THE EXISTING I-55/70 RAMPS AT STA. 36+73.78. THESE RAMPS SHALL REMAIN OPEN AT ALL TIMES DURING CONSTRUCTION OPERATIONS.

TRAFFIC CONTROL LAYOUT SHALL FOLLOW THE STAGING PLAN SHEETS AND THE APPLICABLE TRAFFIC CONTROL HIGHWAY STANDARDS LISTED ON THE COVER SHEET.

CROSSOVER PAVEMENT IS REQUIRED TO BE CONSTRUCTED IN TWO LOCATIONS. THE SOUTH CROSSOVER WILL BE REMOVED AS PART OF STAGE 3. THE NORTH CROSSOVER WILL BE ALLOWED TO REMAIN IN PLACE AFTER CONSTRUCTION AND WILL HAVE NEW PAVEMENT MARKINGS APPLIED TO MATCH ADJACENT MARKINGS.

POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR MAY UTILIZE AGGREGATE FOR TEMPORARY ACCESS TO PROVIDE A PASSABLE TEMPORARY SURFACE FOR EXISTING ENTRANCES DURING CONSTRUCTION.

THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS CONFLICTING WITH EACH RESPECTIVE STAGE OF CONSTRUCTION AND APPROPRIATE TEMPORARY PAVEMENT MARKINGS PRIOR TO OPENING EACH STAGE TO TRAFFIC.

ANY LONGITUDINAL DROP OFFS GREATER THAN 3" SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES EQUIPPED WITH STEADY BURNING LIGHTS. DROP OFFS MORE THAN 12" SHALL BE PROTECTED WITH TEMPORARY CONCRETE BARRIERS.

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1

1. PLACE TRAFFIC CONTROL DEVICES ACCORDING TO THE CONFIGURATION SHOWN IN THE STAGE 1 PLAN. THE INSIDE LANES OF IL-111 WILL BE CLOSED TO PROVIDE ADEQUATE WORKING SPACE FOR CONSTRUCTION OPERATIONS USING STANDARD 701422.

2. REMOVE EXISTING GUARDRAIL ALONG THE WEST EDGE OF NB IL-111.

3. CONSTRUCT CROSSOVER PAVEMENT AND TEMPORARY DRAINAGE ITEMS IN THE LOCATIONS SHOWN ON THE PLANS.

STAGE 2

1. PLACE TRAFFIC CONTROL DEVICES ACCORDING TO THE CONFIGURATION SHOWN IN THE STAGE 2 PLAN AND STANDARD 701416. BOTH SOUTHBOUND LANES OF IL-111 WILL BE CLOSED. TWO-WAY TRAFFIC WILL BE MAINTAINED ON NORTHBOUND IL-111 UTILIZING THE NEWLY CONSTRUCTED CROSSOVERS.

2. REMOVE AND REPLACE THE SB-111 BRIDGE, PAVEMENT, ENTRANCES, GUARDRAIL, AND ALL OTHER ANCILLARY ITEMS IN THE STAGE 2 WORK AREA.

STAGE 3

1. PLACE TRAFFIC CONTROL DEVICES ACCORDING TO THE CONFIGURATION SHOWN IN THE STAGE 3 PLAN AND STANDARD 701422. THE INSIDE LANES OF IL-111 WILL BE CLOSED TO PROVIDE ADEQUATE WORKING SPACE FOR CONSTRUCTION OPERATIONS.

2. REMOVE THE SOUTH CROSSOVER PAVEMENT

3. REMOVE TEMPORARY DRAINAGE ITEMS. DRAINAGE SHALL BE RESTORED TO ITS CONDITION PRIOR TO CONSTRUCTION. PROPOSED GUARDRAIL ALONG THE WEST EDGE OF NB IL-111 WILL ALSO BE CONSTRUCTED IN THIS STAGE.

4. INSTALL HMA SHOULDERS AND COMPLETE FINAL GRADING AND RESTORATION OF THE CENTER MEDIAN.

5. INSTALL FINAL PAVEMENT MARKINGS.





6. COMPLETE BRIDGE MAINTENANCE WORK ON THE WEST HALF OF THE NB STRUCTURE.

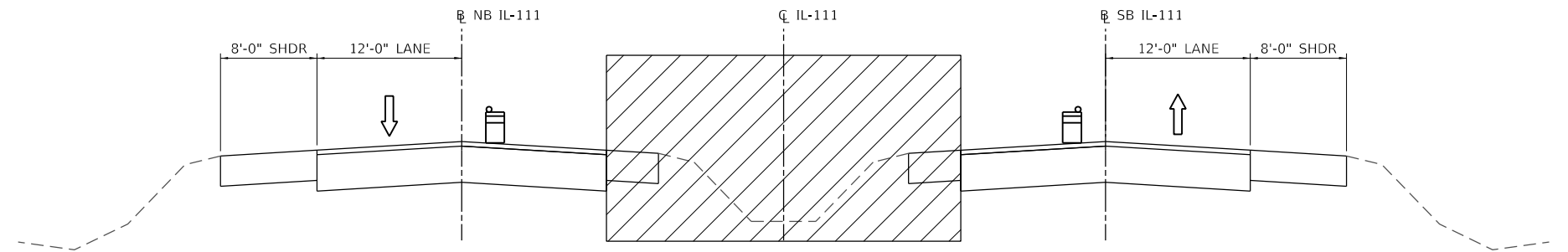
STAGE 4

1. PLACE TRAFFIC CONTROL DEVICES ACCORDING TO THE CONFIGURATION SHOWN IN THE STAGE 4 PLAN AND STANDARD 701422.

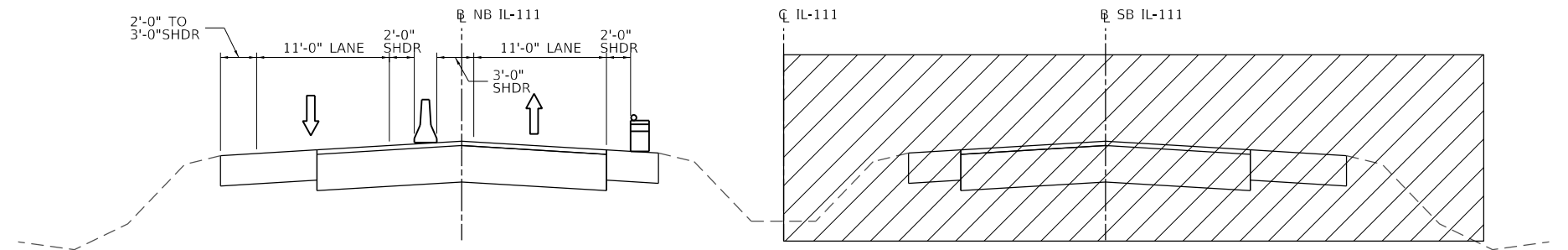
2. COMPLETE BRIDGE MAINTENANCE WORK ON THE EAST SIDE OF THE NB STRUCTURE.

TYPICAL SECTION LEGEND

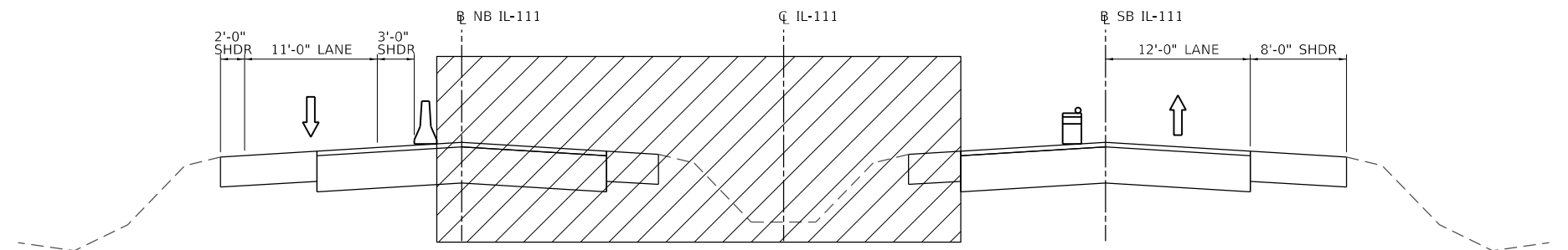
	WORK ZONE AREA
	TEMPORARY CONCRETE BARRIER
	DRUM WITH MONODIRECTIONAL STEADY-BURNING LIGHT
	DIRECTION OF TRAFFIC



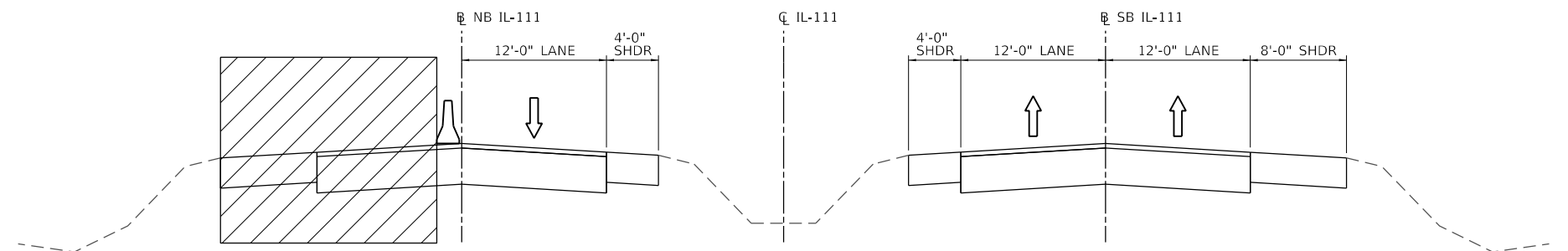
STAGE 1 TYPICAL SECTION



STAGE 2 TYPICAL SECTION



STAGE 3 TYPICAL SECTION



STAGE 4 TYPICAL SECTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING NOTES AND TYPICAL SECTIONS

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	18
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

USER NAME = tkruop	DESIGNED - TAK	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - TAK	REVISED -
PLOT DATE = 10/17/2023	CHECKED - BMR	REVISED -
	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

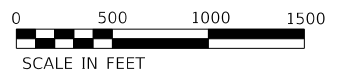
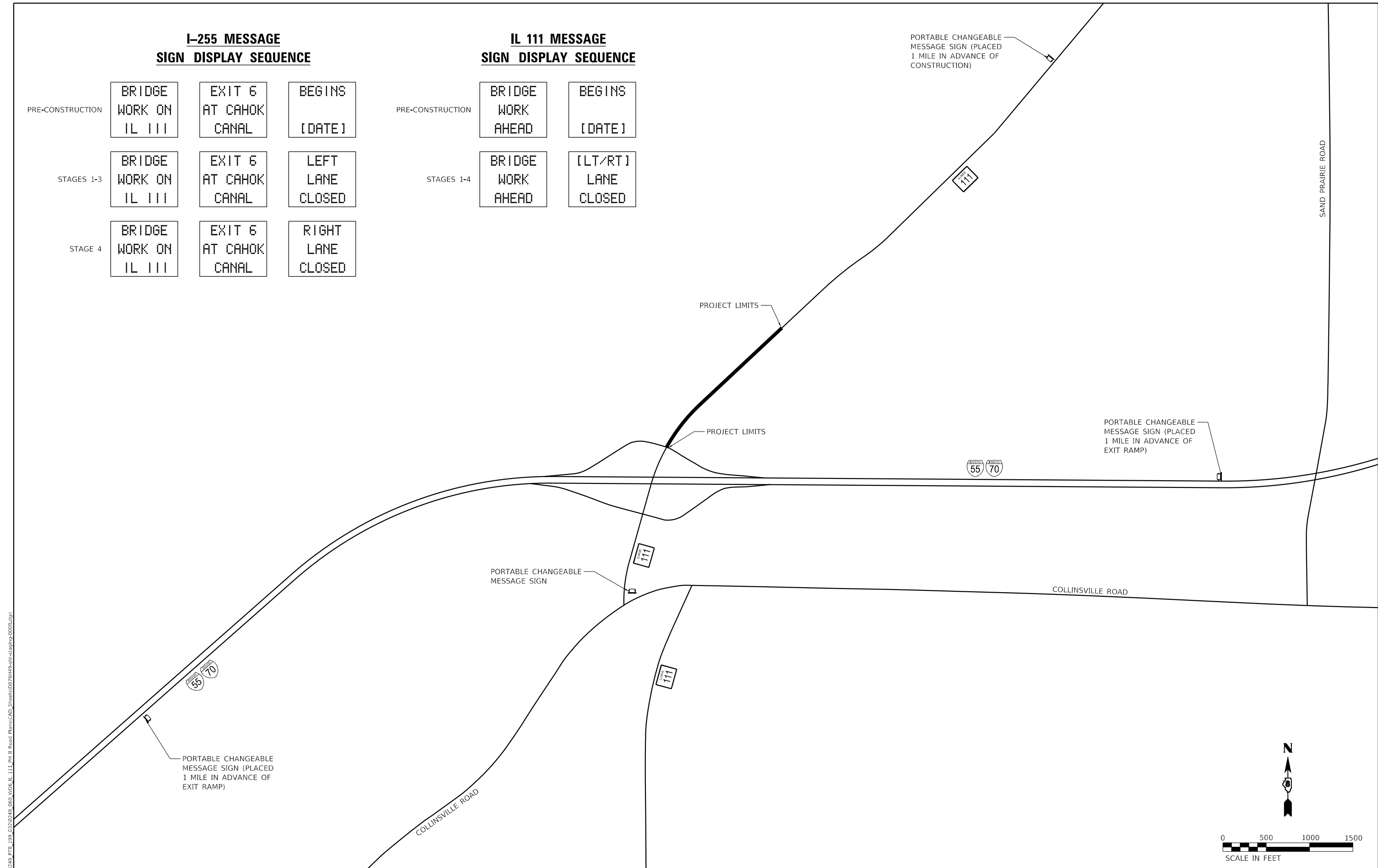
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MESSAGE SIGN (PLACED
1 MILE IN ADVANCE OF
CONSTRUCTION)

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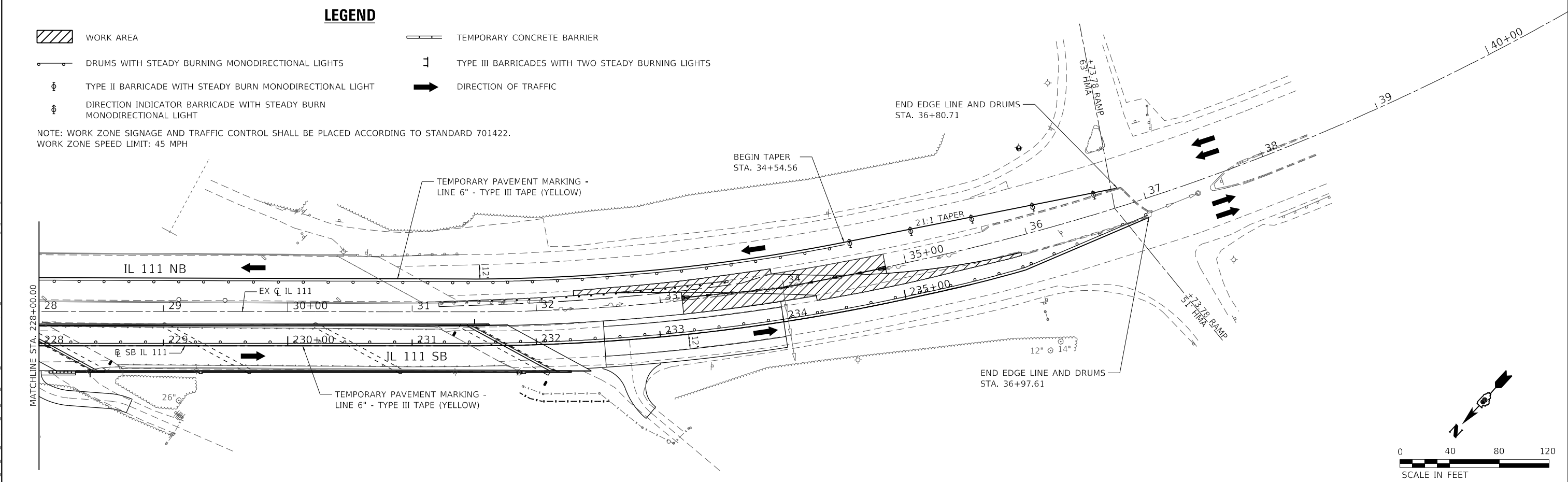
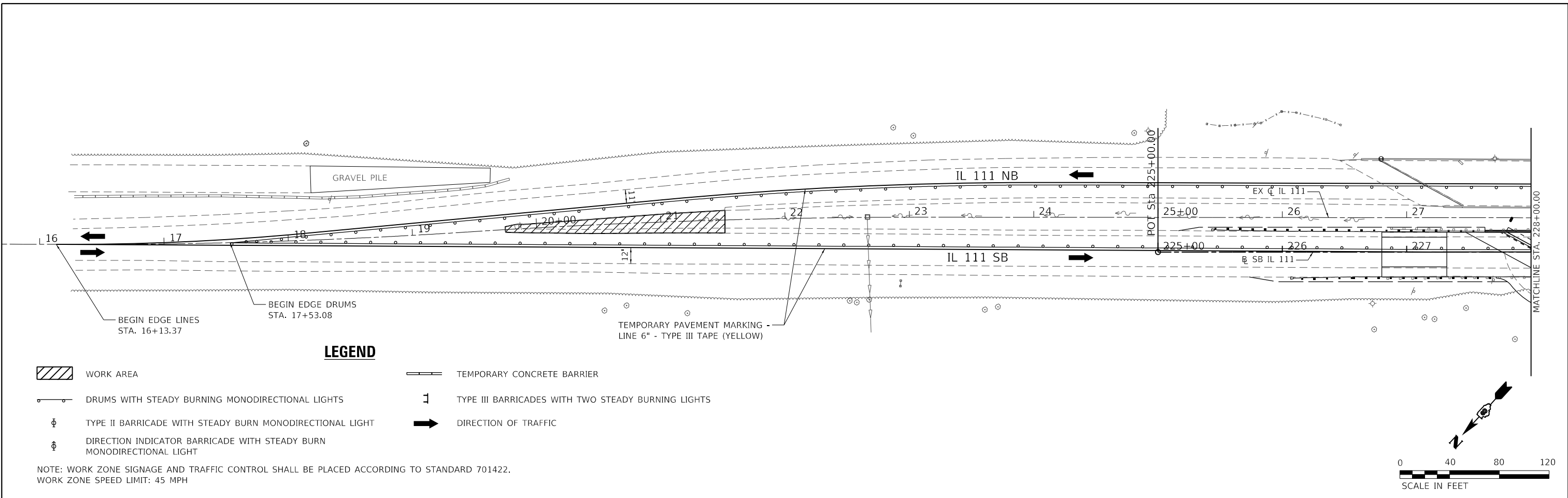
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PLOT DATE = 10/17/2023	CHECKED - TAK	REVISED -
	DATE - 10/17/23	REVISED -

**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				



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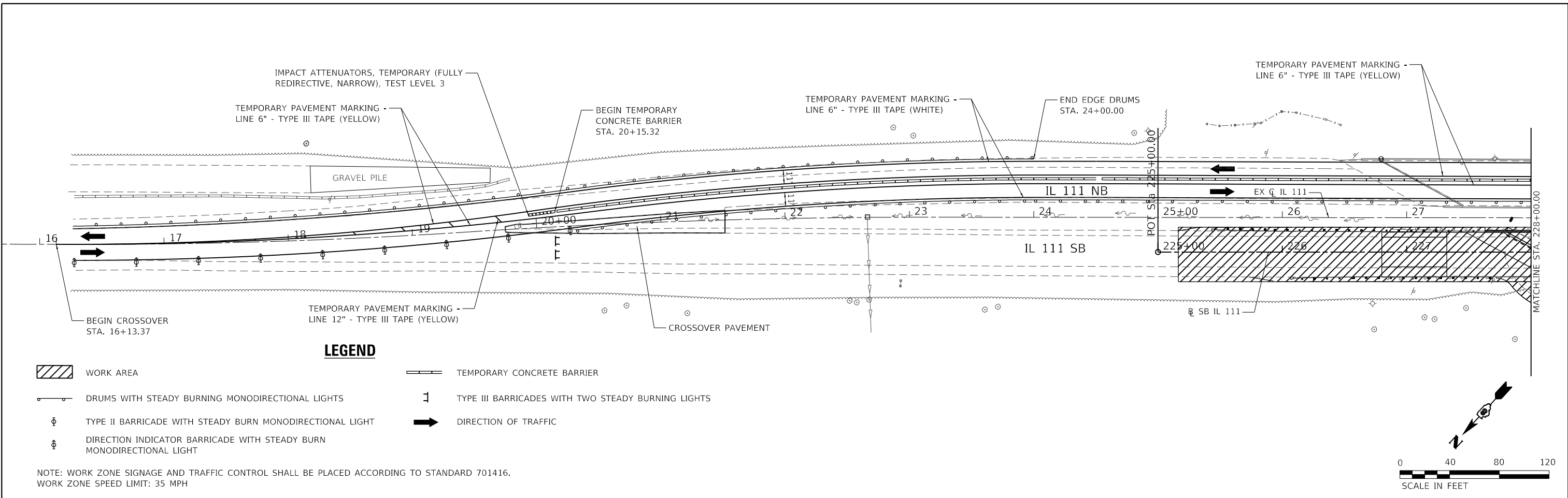
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 1**

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

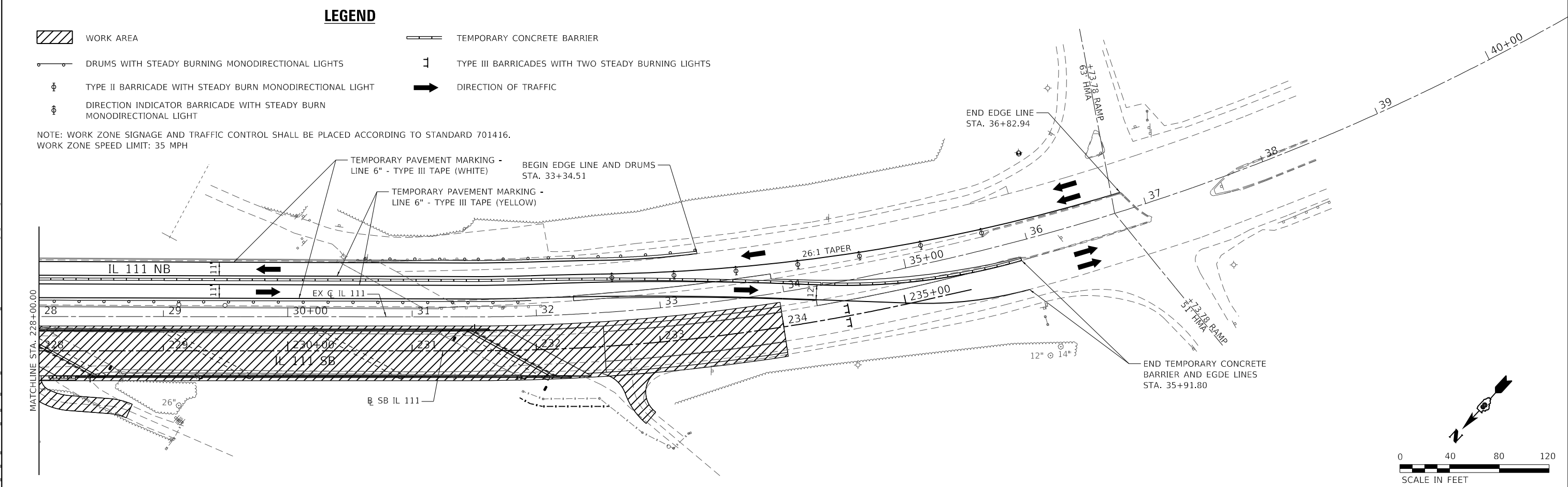
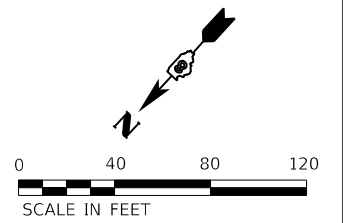
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	20
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



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

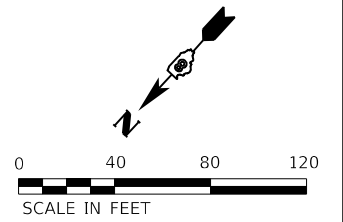
NOTE: WORK ZONE SIGNAGE AND TRAFFIC CONTROL SHALL BE PLACED ACCORDING TO STANDARD 701416.
WORK ZONE SPEED LIMIT: 35 MPH



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 701416.
WORK ZONE SPEED LIMIT: 35 MPH



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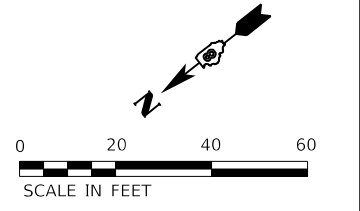
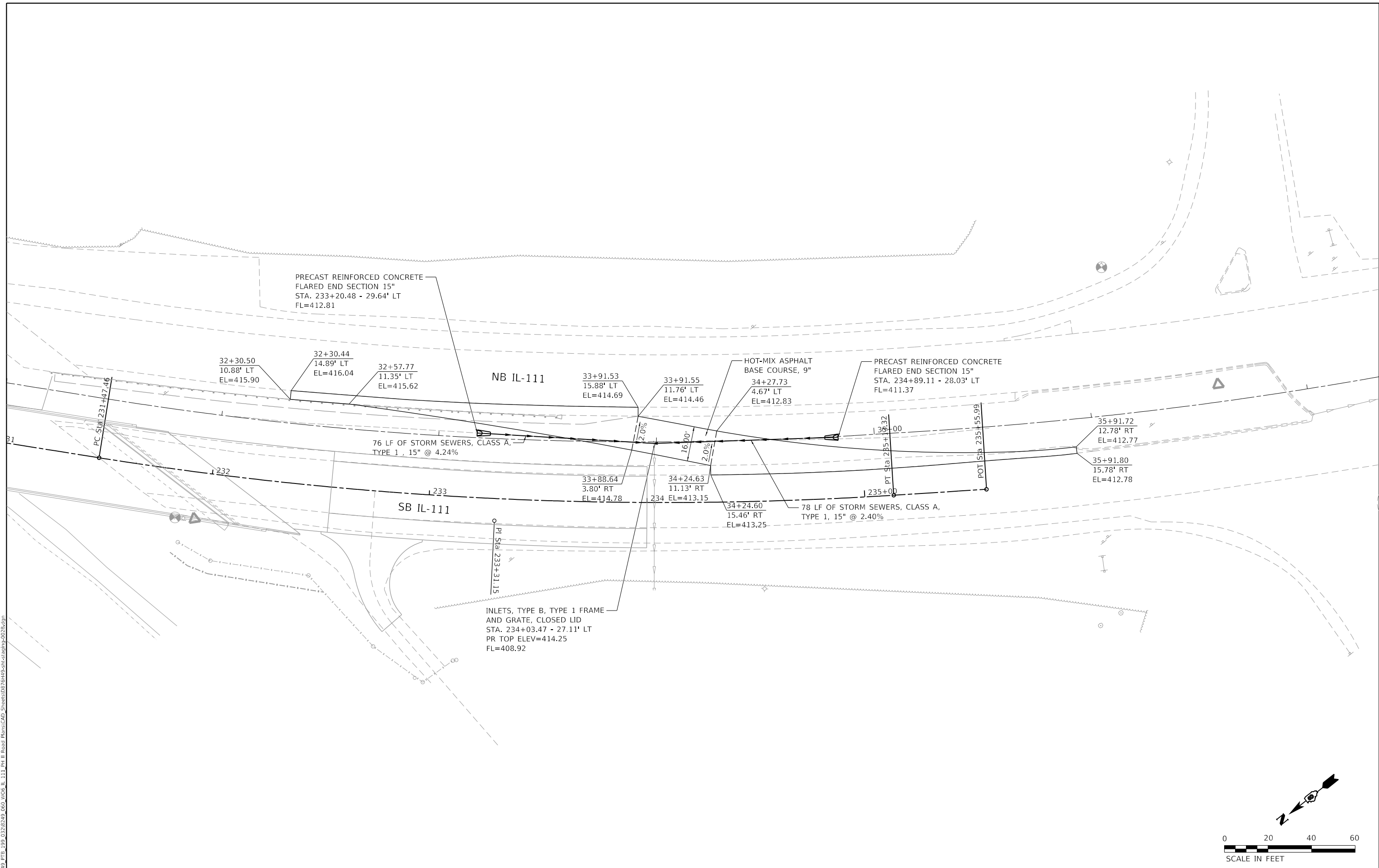
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 2**

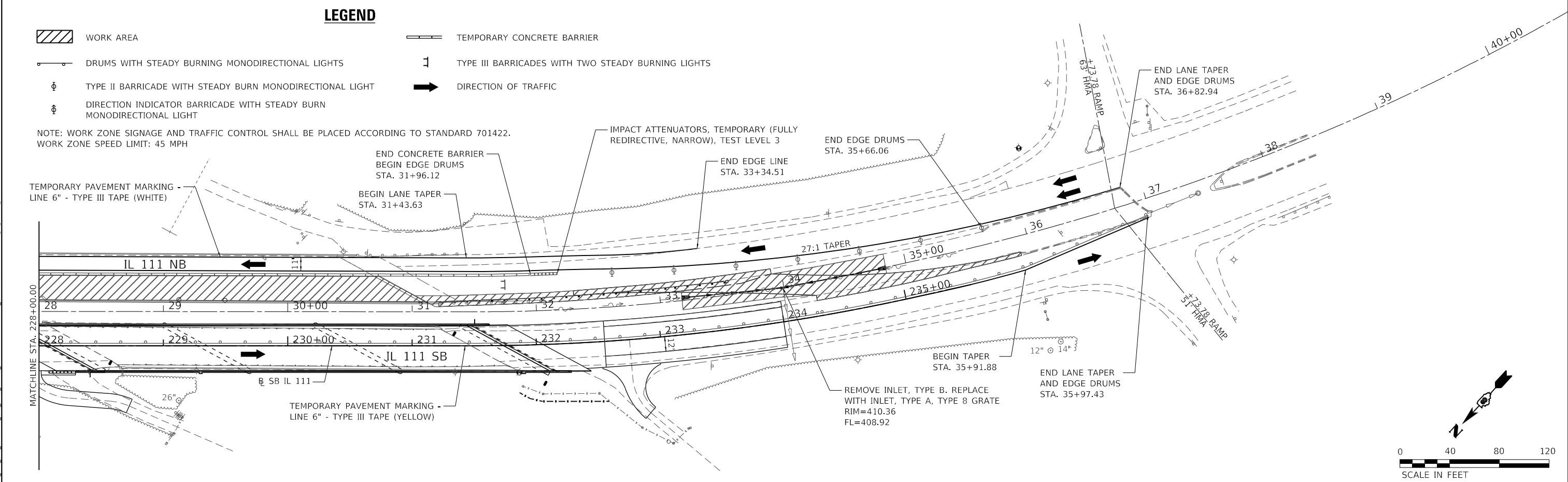
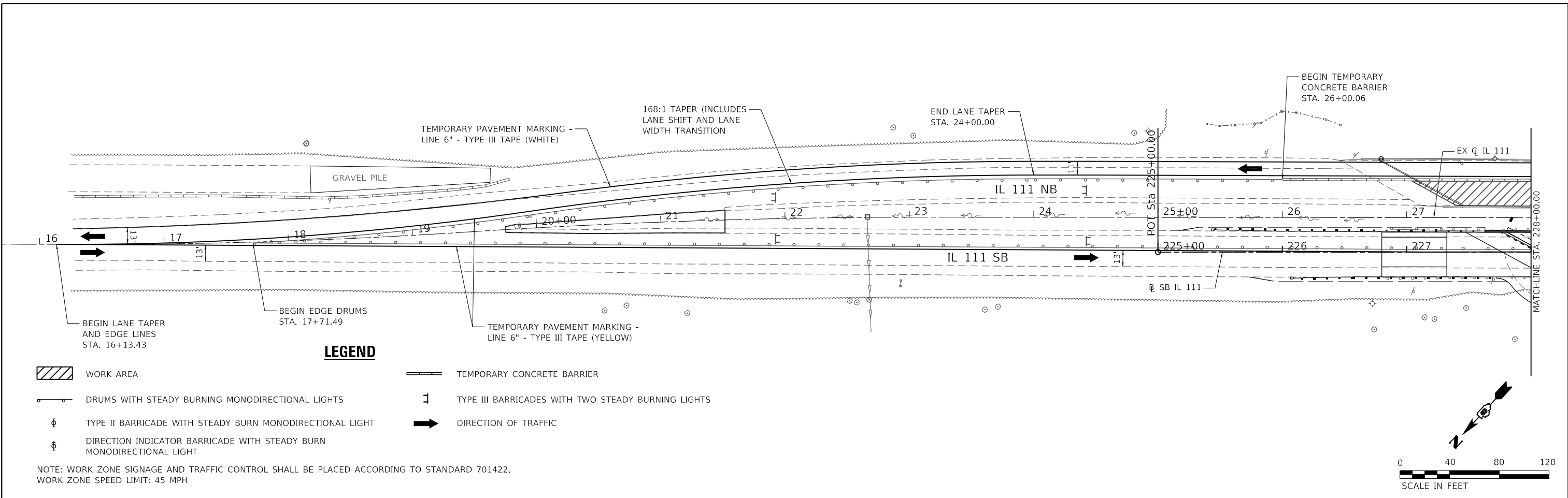
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F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	

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	PLOT SCALE = 40,0000' / in.	CHECKED - BMR	REVISED -			DATE = 10/17/23	SCALE: 1"=20'	SHEET 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 76H49 <small>ILLINOIS FED. AID PROJECT</small>



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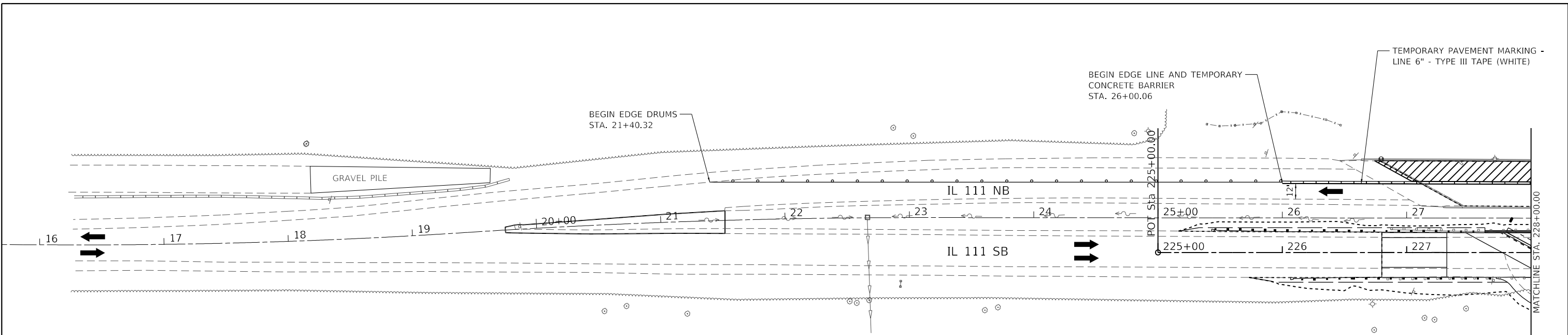
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISIONS -
	DATE - 10/17/23	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 3**

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

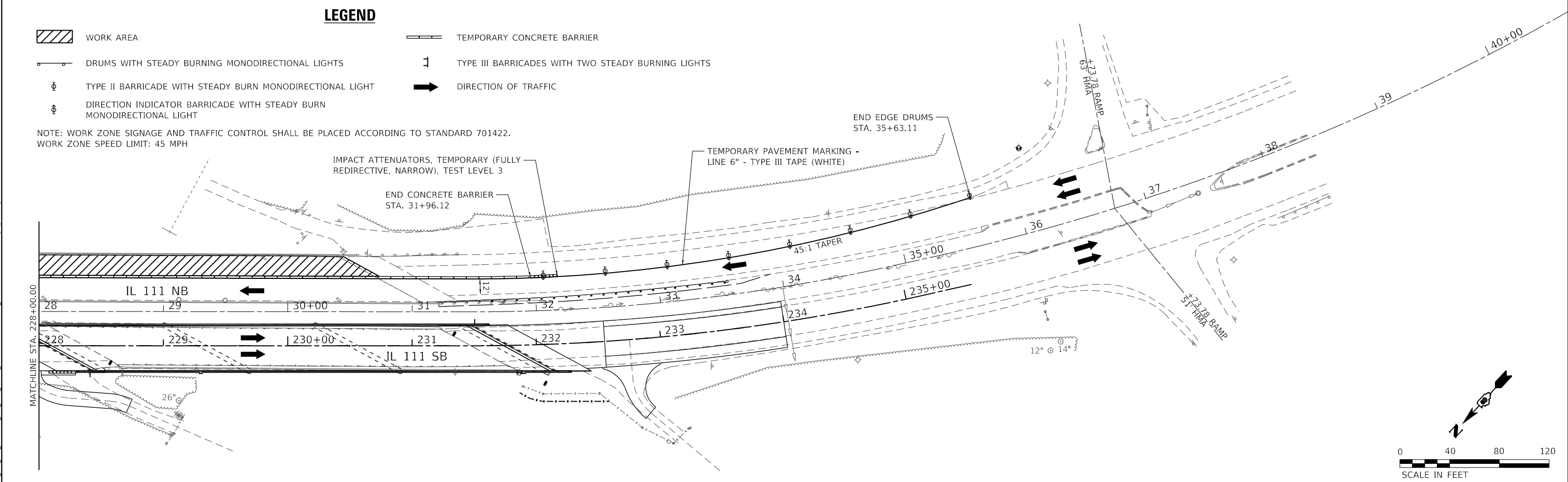
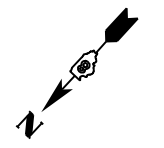
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	23
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



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

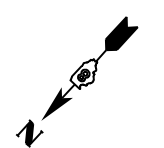
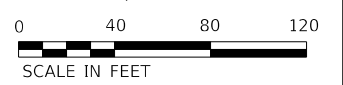
NOTE: WORK ZONE SIGNAGE AND TRAFFIC CONTROL SHALL BE PLACED ACCORDING TO STANDARD 701422.
WORK ZONE SPEED LIMIT: 45 MPH



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



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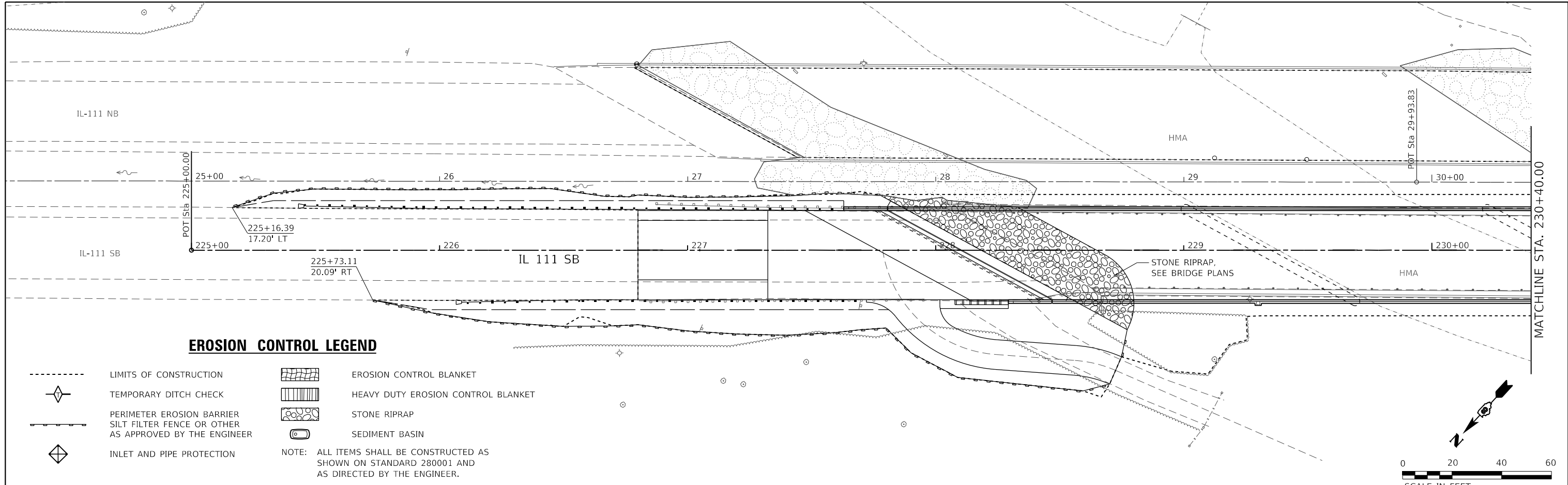
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PLOT DATE = 12/6/2023	CHECKED - BMR	REVISED -
	DATE - 10/17/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN
STAGE 4**

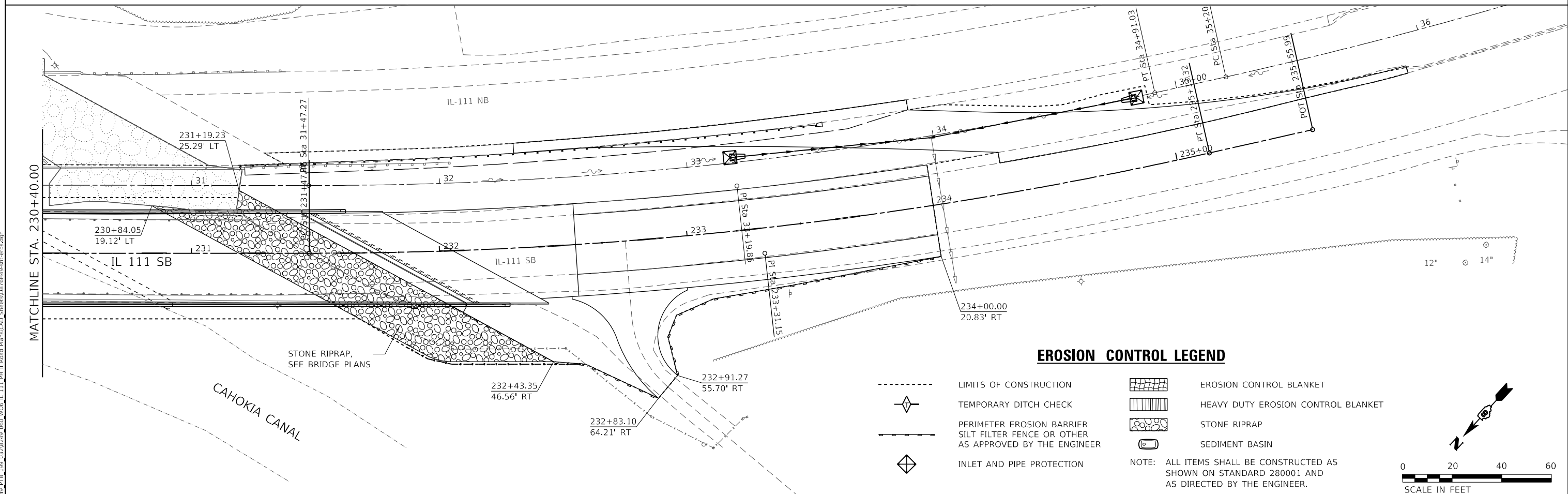
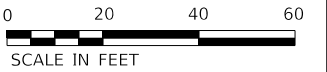
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	24
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



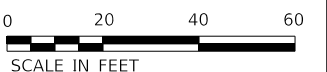
EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
SILT FILTER FENCE OR OTHER
AS APPROVED BY THE ENGINEER
 - INLET AND PIPE PROTECTION
 - EROSION CONTROL BLANKET
 - HEAVY DUTY EROSION CONTROL BLANKET
 - STONE RIPRAP
 - SEDIMENT BASIN
- NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
 - TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
SILT FILTER FENCE OR OTHER
AS APPROVED BY THE ENGINEER
 - INLET AND PIPE PROTECTION
 - EROSION CONTROL BLANKET
 - HEAVY DUTY EROSION CONTROL BLANKET
 - STONE RIPRAP
 - SEDIMENT BASIN
- NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.



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HMG
ENGINEERS
IL PROF DESIGN FIRM 184,000899

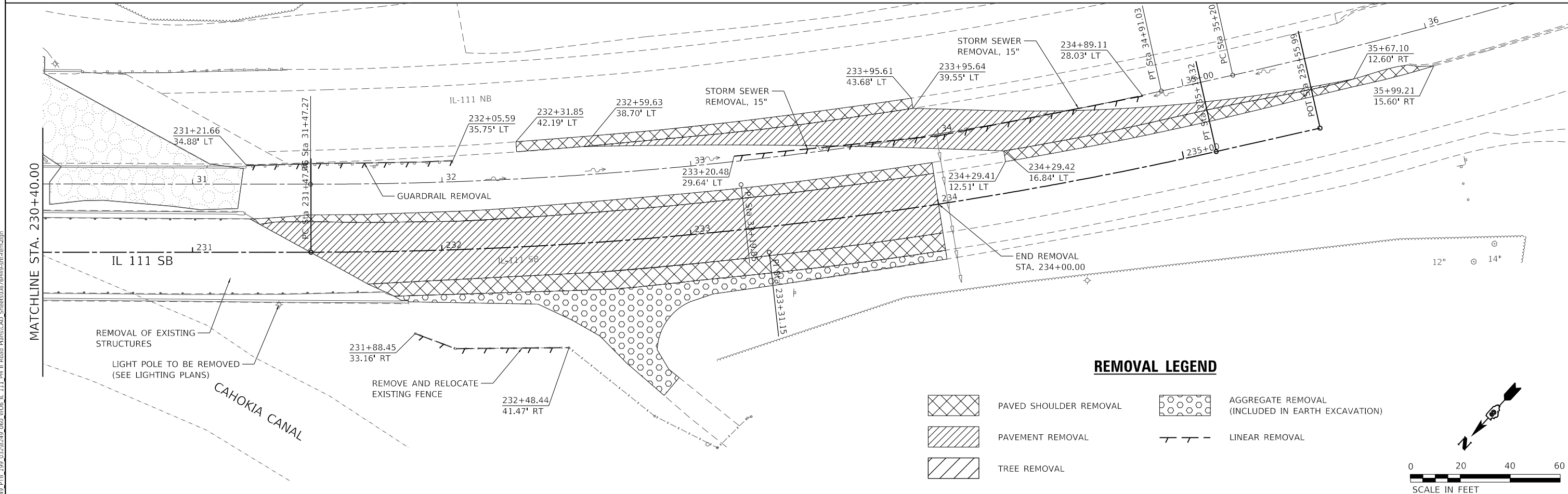
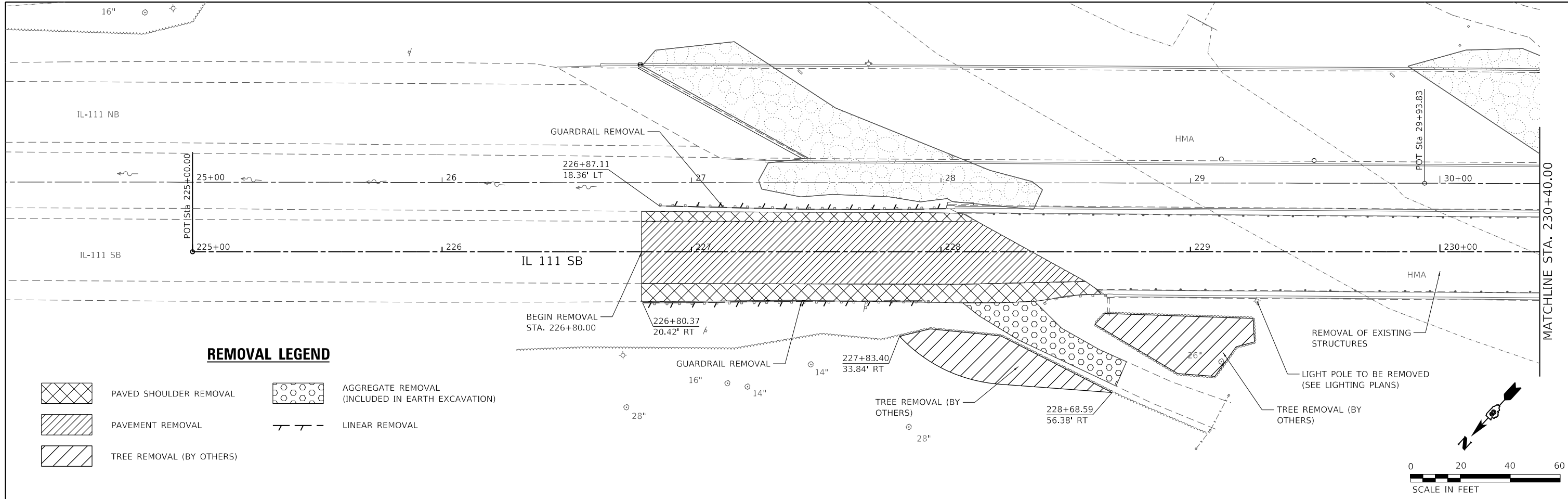
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PLOT DATE = 10/17/2023	CHECKED - BMR	REVISIONS
	DATE - 10/17/23	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL 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	25
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



MODEL: D:\m\h\...
 FILE NAME: I:\3248_PTB_199_0328249_069_V006_IL_111_Pth_H_Road_Plan\CAD_Sheets\087649-sh-rev2.dgn



USER NAME = tkruop	DESIGNED - TAK	REVISED -
PLOT SCALE = 40,000' / in.	DRAWN - TAK	REVISED -
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				

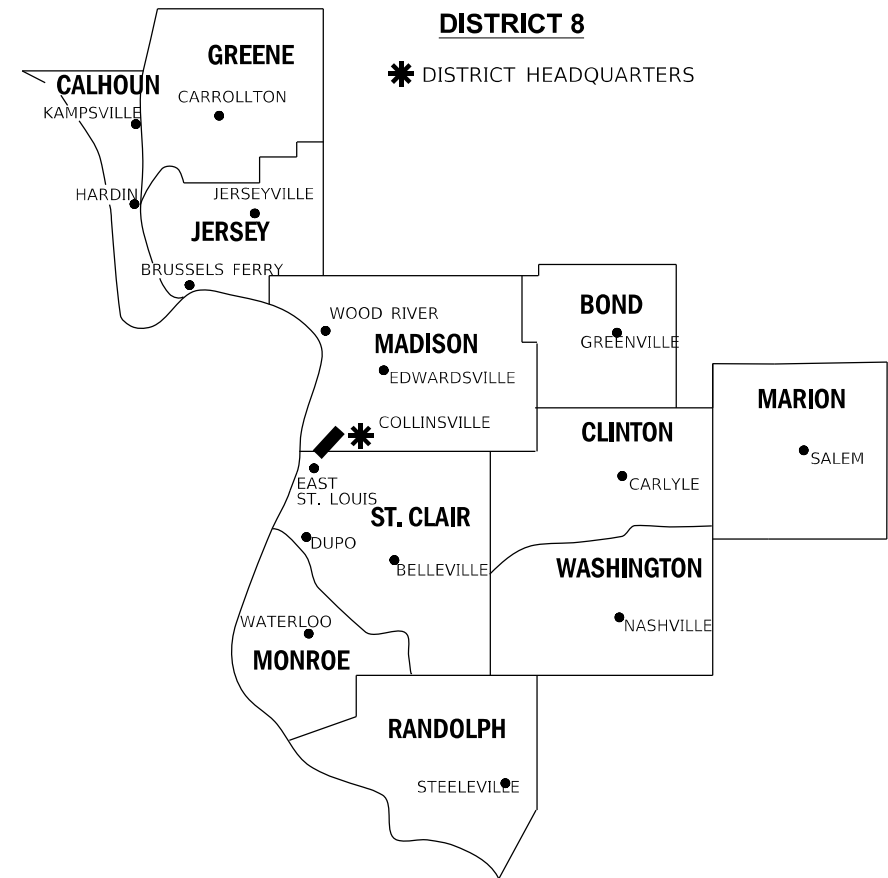
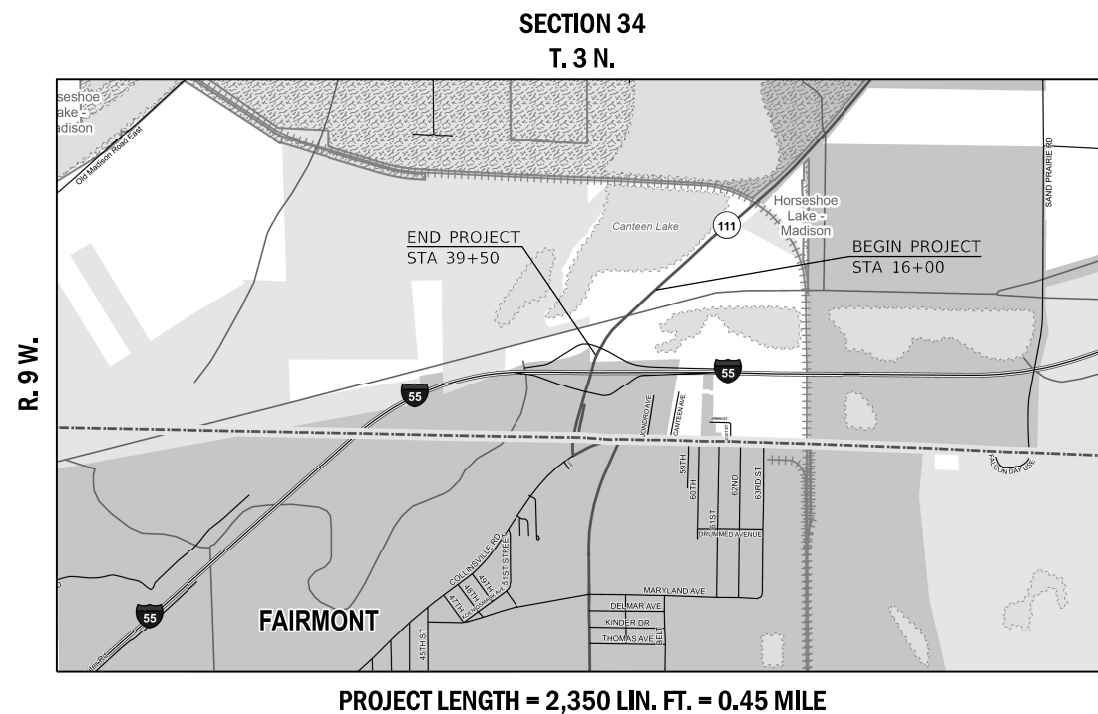
SHEET INDEX			
SHEET NO.	STATION TO STATION	DESCRIPTION	PARCELS
1	N/A	COVER SHEET	N/A
2	N/A	LEGEND & NOTES	N/A
3	24+45 TO 34+43	PLAT OF HIGHWAYS	8218011PE
4	24+45 TO 34+43	OVERALL LAYOUT	N/A
5	N/A	CONTROL POINT TIES	N/A

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**



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

	QUARTER SECTION CORNERS
	SECTION CORNERS
	EXISTING CENTERLINE
	EXISTING RIGHT-OF-WAY LINE
	FORMER RIGHT-OF-WAY LINE
	EXISTING IDOT EASEMENT LINE
	EXISTING EASEMENT LINE
	BUILDING SETBACK LINE
	EXISTING ACCESS CONTROL LINE
	EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
	PROPOSED ACCESS CONTROL LINE
	PROPOSED CENTERLINE
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	QUARTER QUARTER SECTION LINE
	PROPERTY LINE (TITLE)
	RECORDED PLAT/DEED LINE
	APPARENT PROPERTY LINE
	SAME OWNERSHIP
	121.45' MEASURED DIMENSION
	(121.45') RECORDED DIMENSION
	FOUND STONE
	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
	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
	FOUND 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

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



PROPOSED PARCEL NUMBER LEGEND

	PROPOSED FEE SIMPLE ACQUISITION
	PROPOSED PERMANENT EASEMENT
	PROPOSED TEMPORARY EASEMENT
	PROPOSED DEDICATION
	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:

1. 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.
2. 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**

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.

PREPARED BY:



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REGISTRATION No. 184-005965

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

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		

SPACE RESERVED FOR RECORDING OFFICER

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



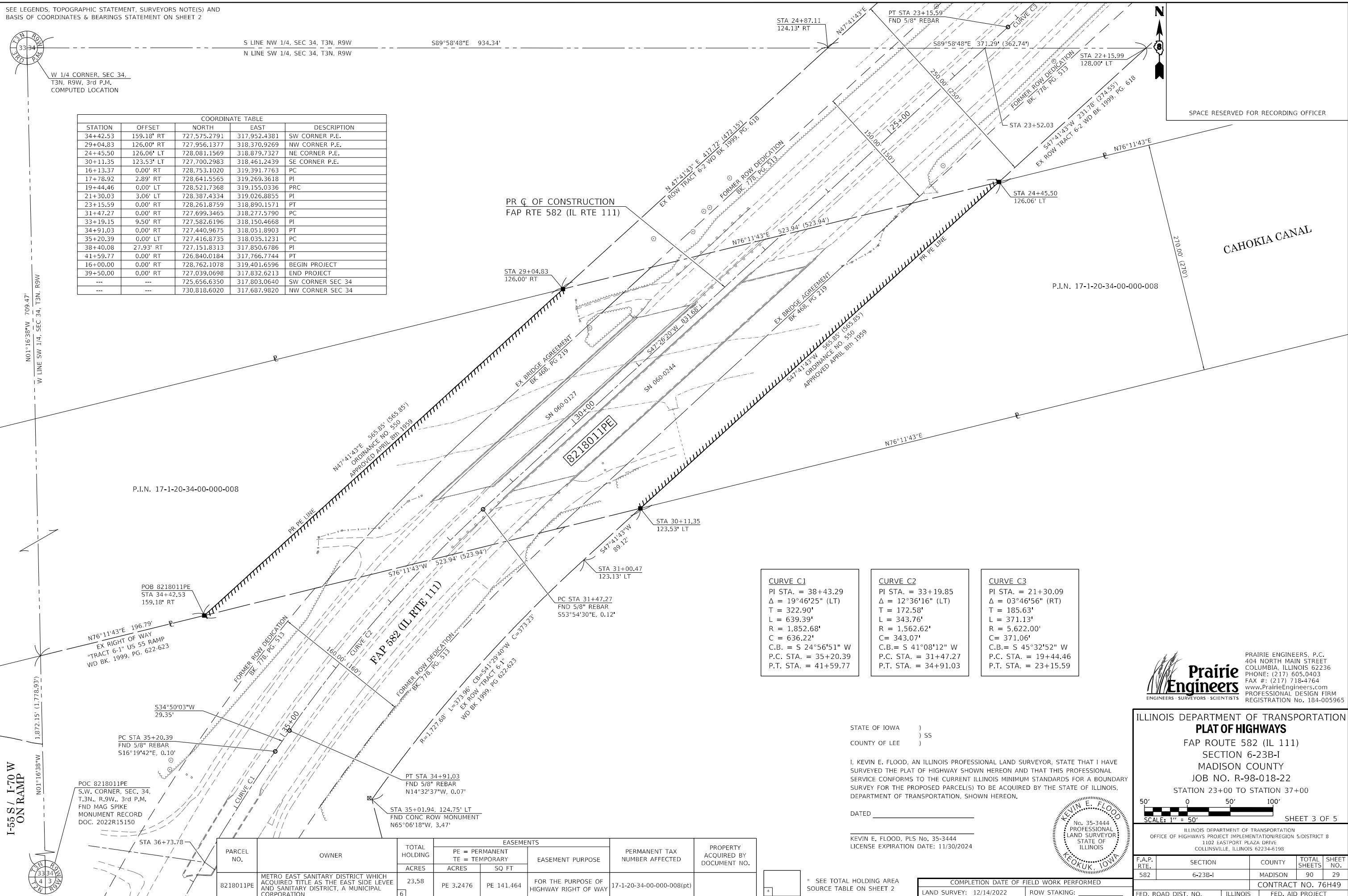
COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
34+42.53	159.18' RT	727,575.2791	317,952.4381	SW CORNER P.E.
29+04.83	126.00' RT	727,956.1377	318,370.9269	NW CORNER P.E.
24+45.50	126.06' LT	728,081.1569	318,879.7327	NE CORNER P.E.
30+11.35	123.53' LT	727,700.2983	318,461.2439	SE CORNER P.E.
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

I-55 S / I-70 W ON RAMP
N01°16'38"W 1.872.15' (1,778.93')



SPACE RESERVED FOR RECORDING OFFICER



CURVE C1	CURVE C2	CURVE C3
PI STA. = 38+43.29	PI STA. = 33+19.85	PI STA. = 21+30.09
$\Delta = 19^\circ46'25''$ (LT)	$\Delta = 12^\circ36'16''$ (LT)	$\Delta = 03^\circ46'56''$ (RT)
T = 322.90'	T = 172.58'	T = 185.63'
L = 639.39'	L = 343.76'	L = 371.13'
R = 1,852.68'	R = 1,562.62'	R = 5,622.00'
C = 636.22'	C = 343.07'	C = 371.06'
C.B. = S 24°56'51" W	C.B. = S 41°08'12" W	C.B. = S 45°32'52" W
P.C. STA. = 35+20.39	P.C. STA. = 31+47.27	P.C. STA. = 19+44.46
P.T. STA. = 41+59.77	P.T. STA. = 34+91.03	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
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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
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
COLLINSVILLE, 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 ACRES	EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY DOCUMENT NO.
			PE = PERMANENT TE = TEMPORARY	EASEMENT PURPOSE		
8218011PE	METRO EAST SANITARY DISTRICT WHICH ACQUIRED TITLE AS THE EAST SIDE LEVEE AND SANITARY DISTRICT, A MUNICIPAL CORPORATION	23.58	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-ROSCHKE 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
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

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

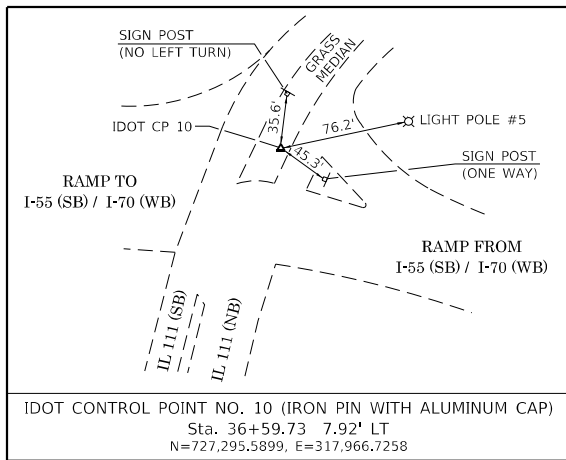
FAP ROUTE 582 (IL 111)
SECTION 6-23B-I
MADISON COUNTY
JOB NO. R-98-018-22
OVERALL LAYOUT

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

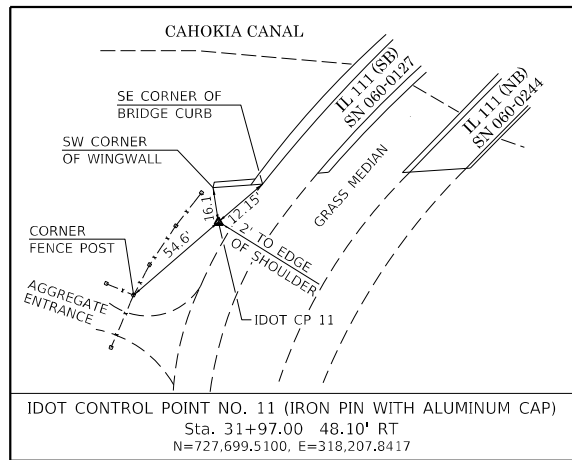
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-I	MADISON	90	30

COMPLETION DATE OF FIELD WORK PERFORMED _____
LAND SURVEY: 12/14/2022 ROW STAKING: _____
CONTRACT NO. 76H49
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT

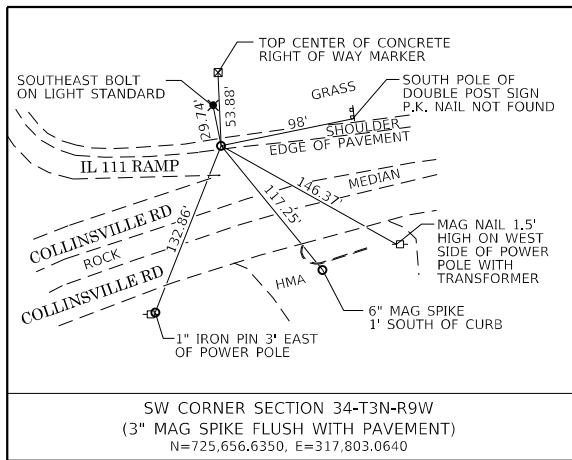
SURVEY CONTROL TIE SHEET



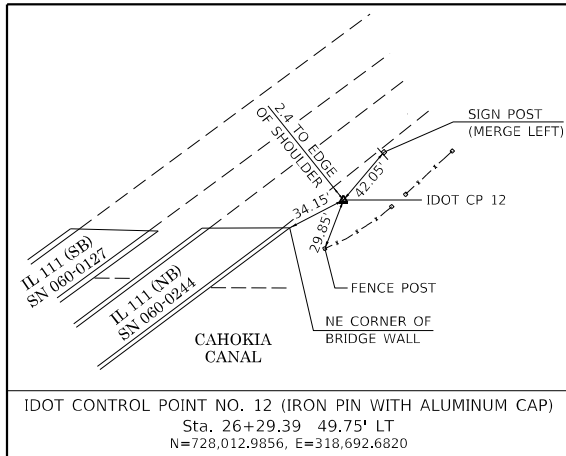
IDOT CONTROL POINT NO. 10 (IRON PIN WITH ALUMINUM CAP)
Sta. 36+59.73 7.92' LT
N=727,295.5899, E=317,966.7258



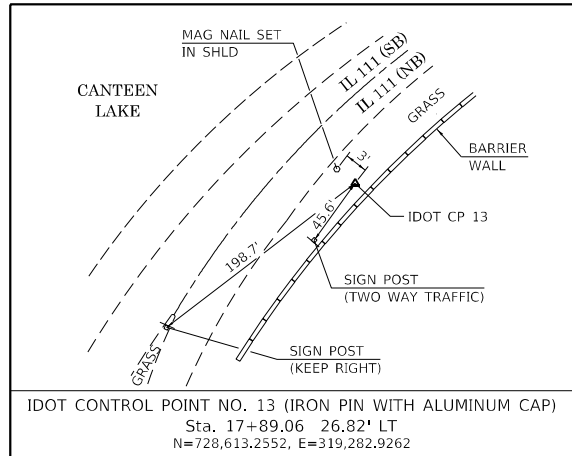
IDOT CONTROL POINT NO. 11 (IRON PIN WITH ALUMINUM CAP)
Sta. 31+97.00 48.10' RT
N=727,699.5100, E=318,207.8417



SW CORNER SECTION 34-T3N-R9W
(3" MAG SPIKE FLUSH WITH PAVEMENT)
N=725,656.6350, E=317,803.0640



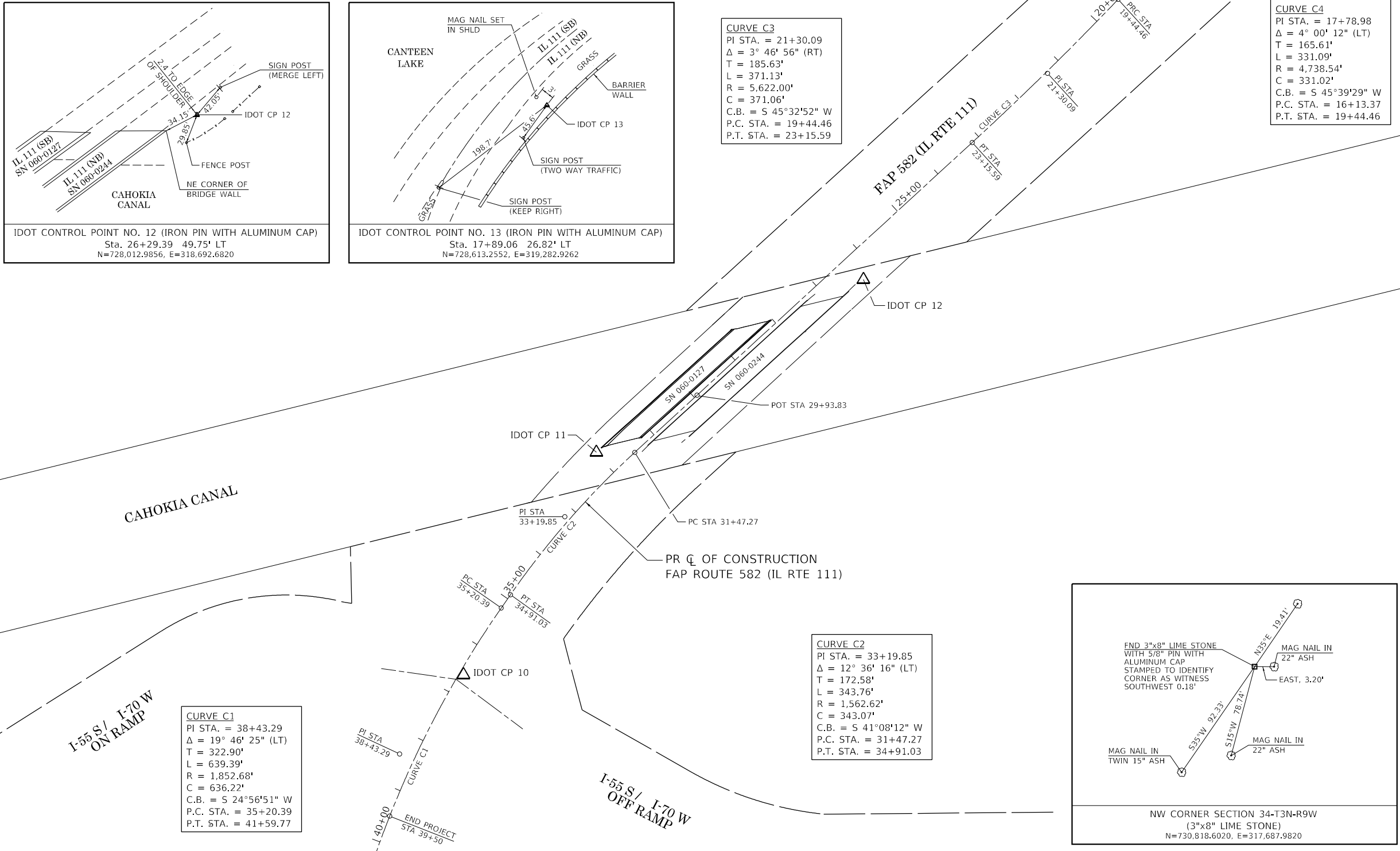
IDOT CONTROL POINT NO. 12 (IRON PIN WITH ALUMINUM CAP)
Sta. 26+29.39 49.75' LT
N=728,012.9856, E=318,692.6820



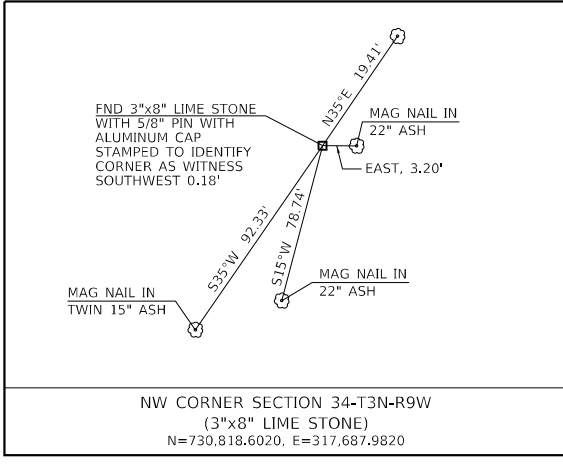
IDOT CONTROL POINT NO. 13 (IRON PIN WITH ALUMINUM CAP)
Sta. 17+89.06 26.82' LT
N=728,613.2552, E=319,282.9262

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



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



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



Prairie Engineers
ENGINEERS SURVEYORS SCIENTISTS

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

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

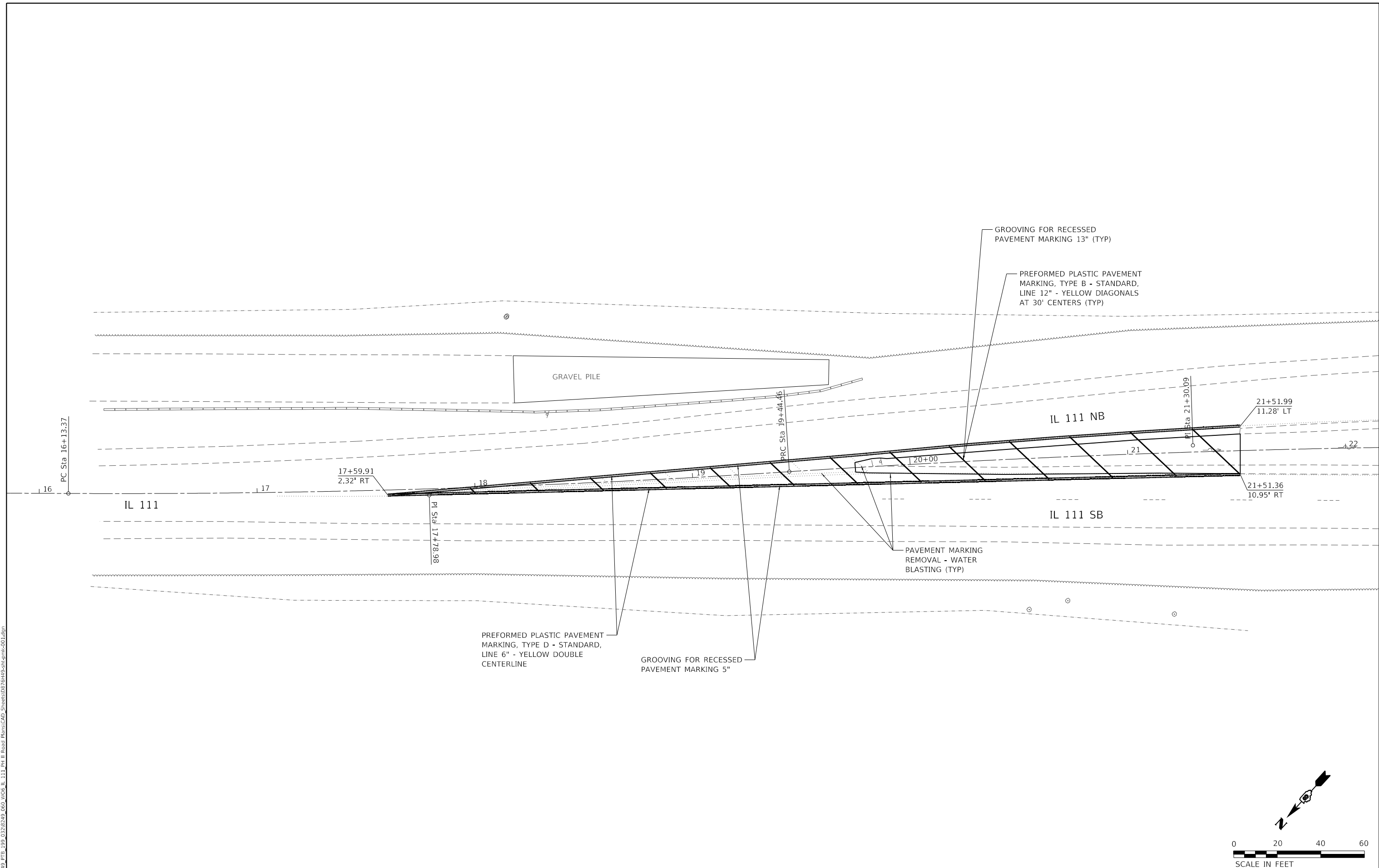
NOT TO SCALE SHEET 5 OF 5

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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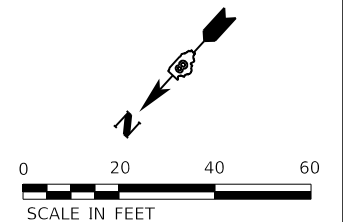
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	DATE - 10/17/23	REVISED -

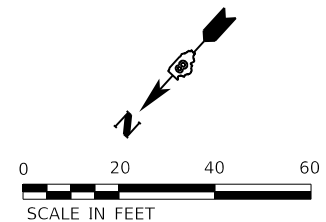
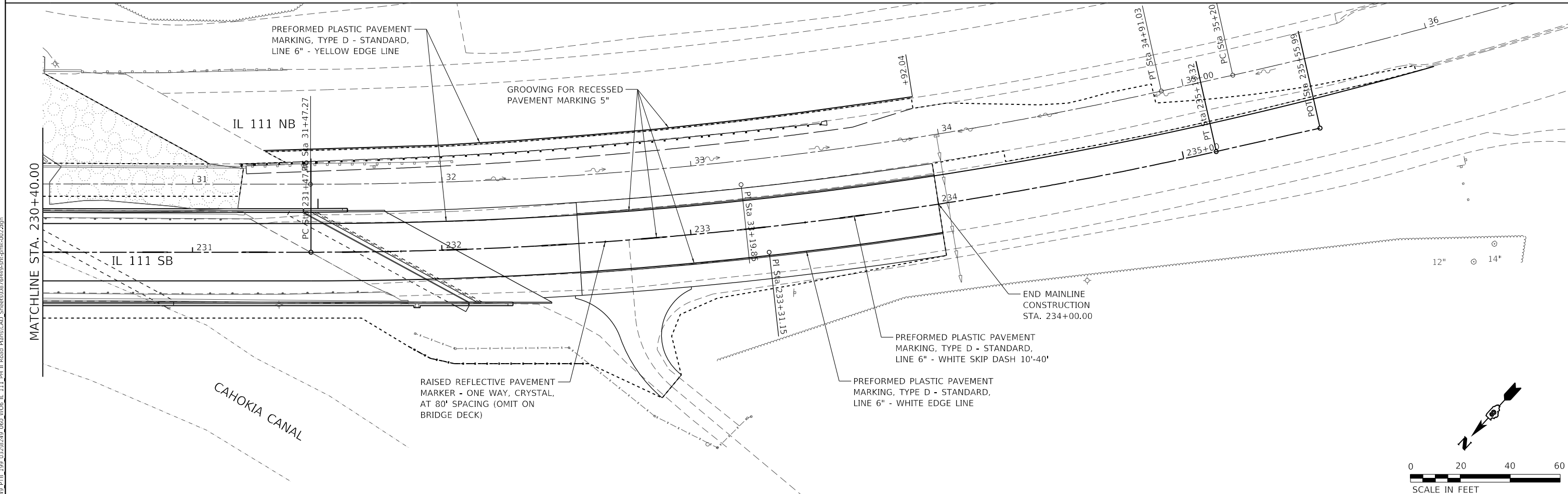
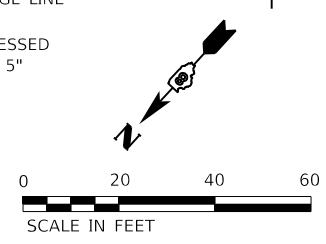
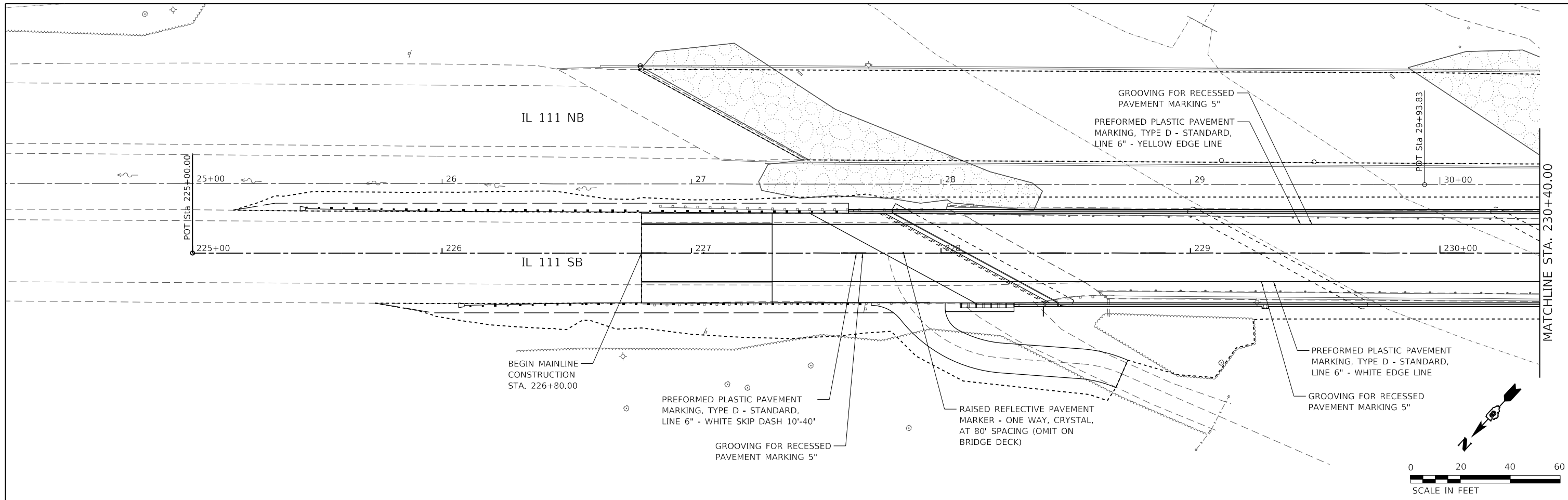
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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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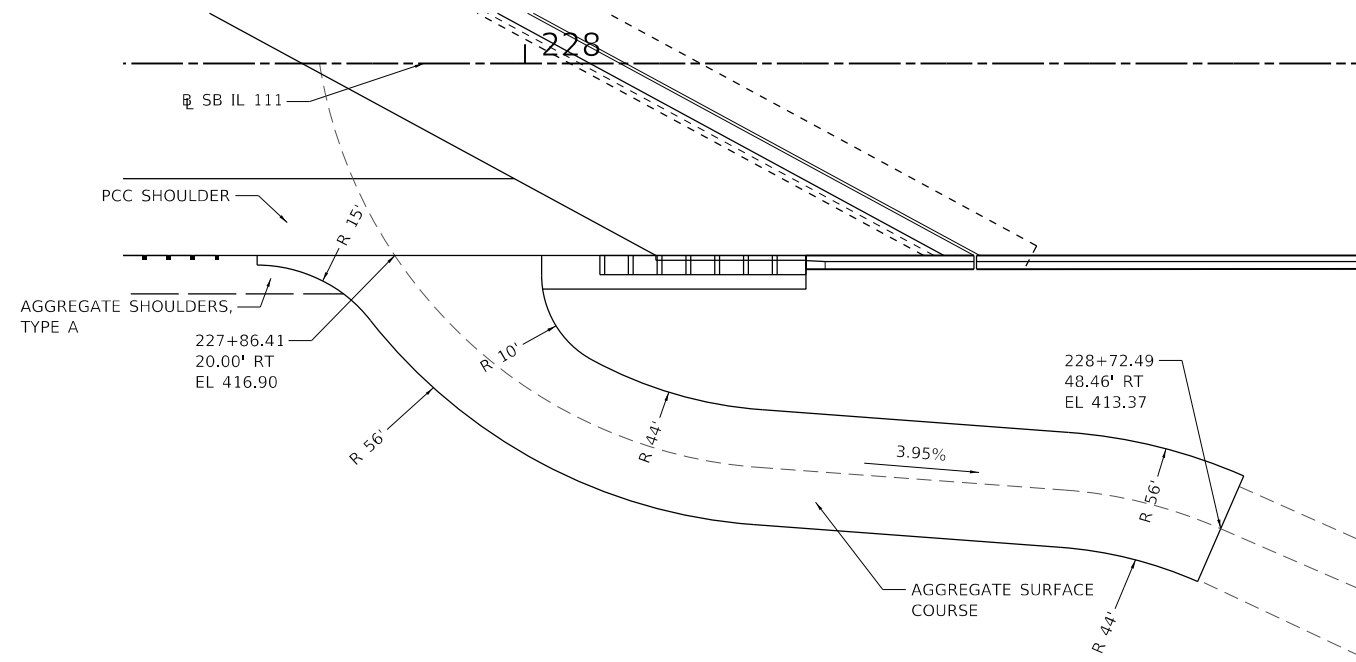
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

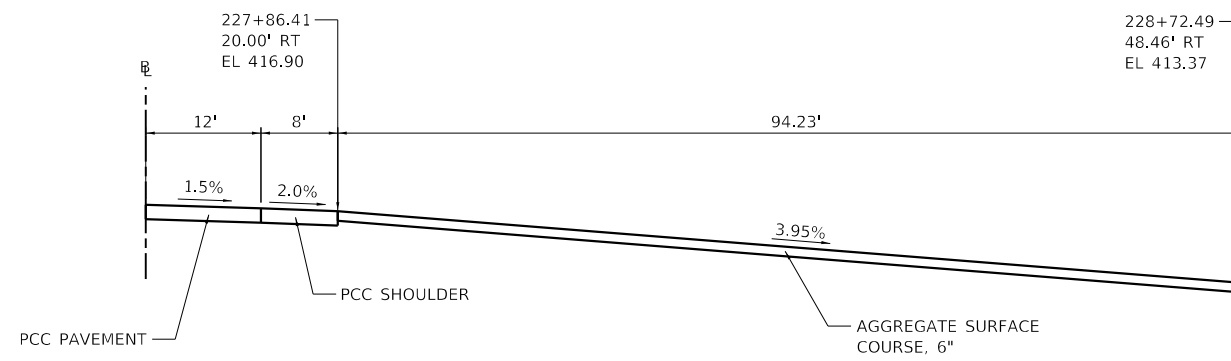
PAVEMENT MARKINGS

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				



PLAN VIEW

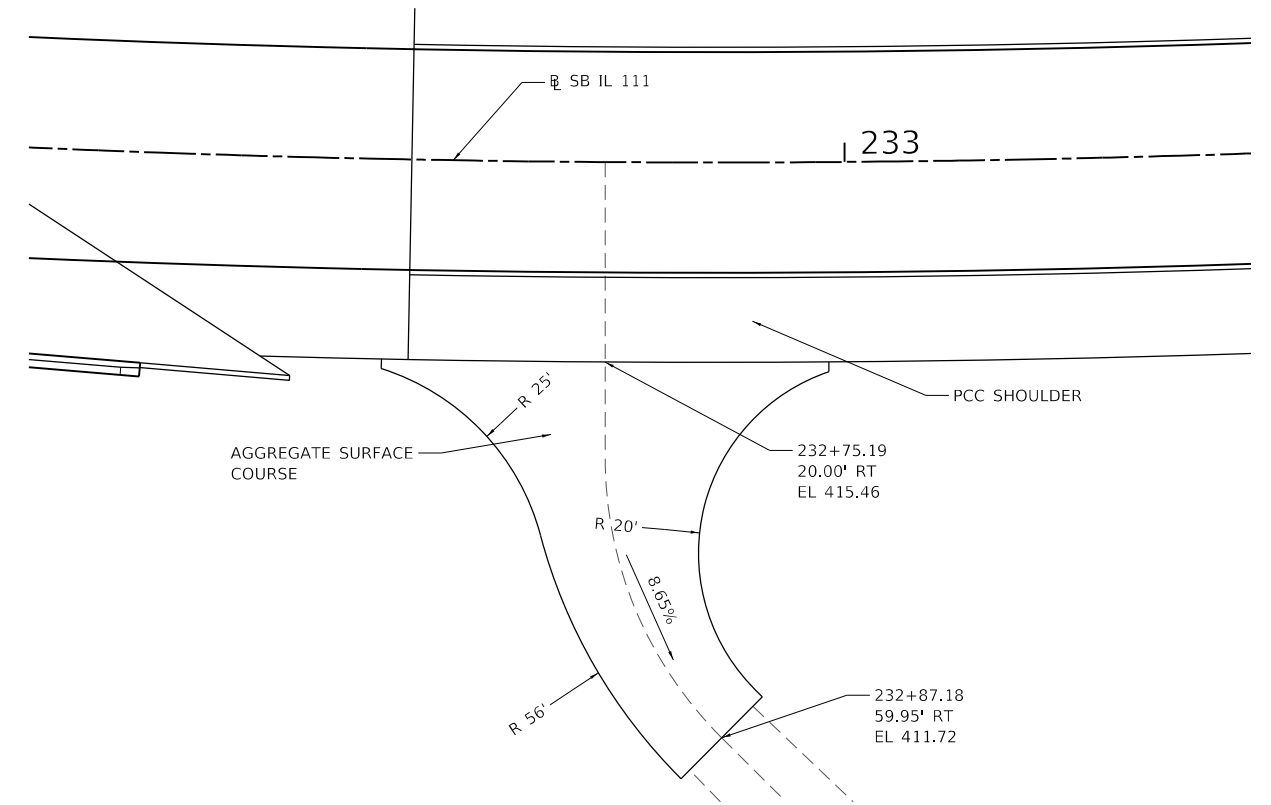


SECTION VIEW

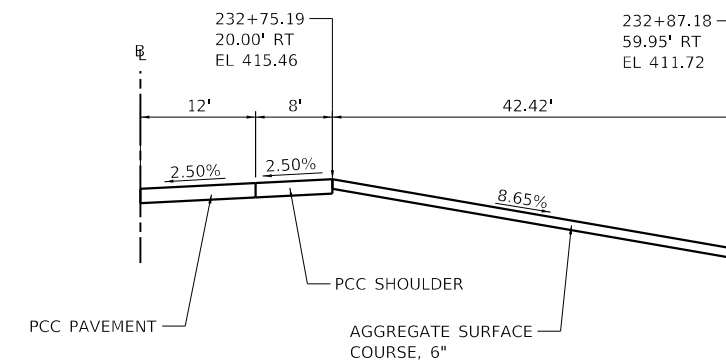
FIELD ENTRANCE A

(NOT TO SCALE)

STA. 227+78.59 RT



PLAN VIEW



SECTION VIEW

FIELD ENTRANCE B

(NOT TO SCALE)

STA. 232+75.04 RT

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ENTRANCE DETAILS

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	34
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

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 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

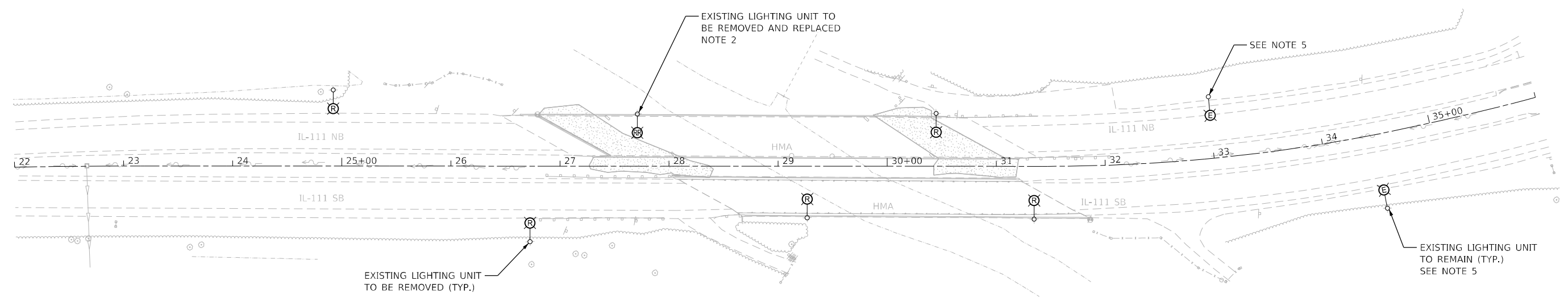
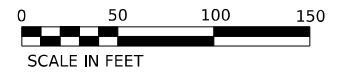
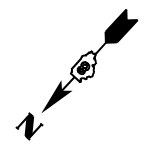
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PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

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

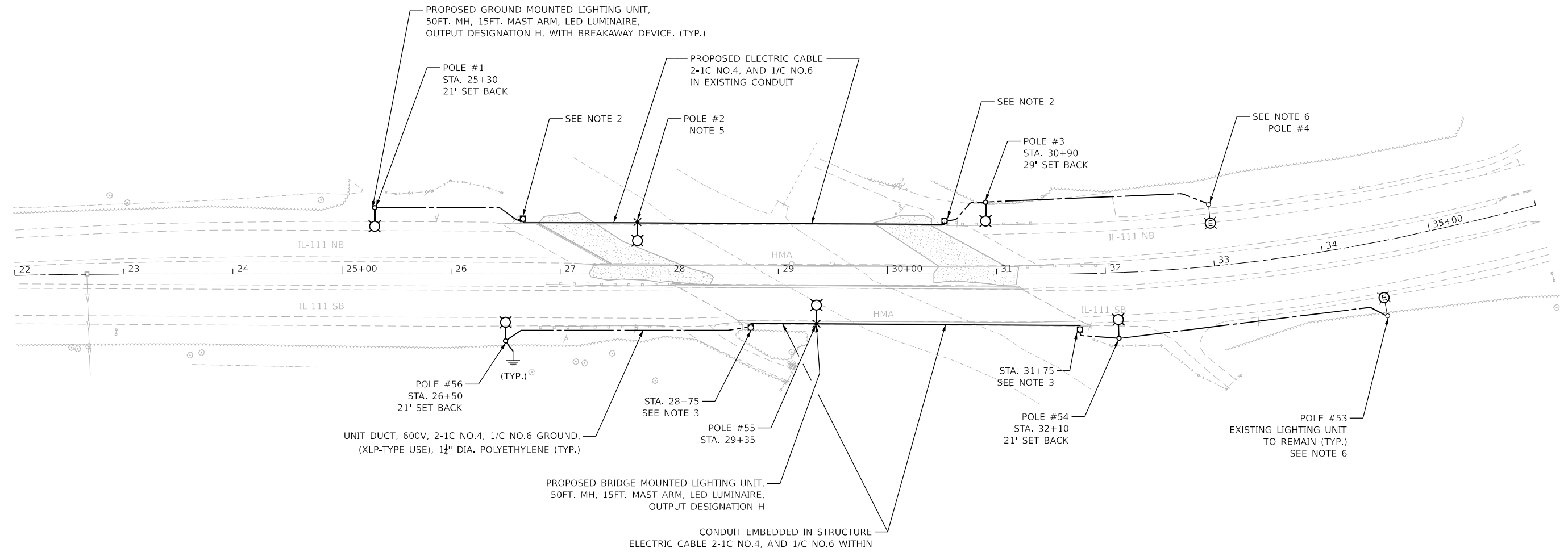
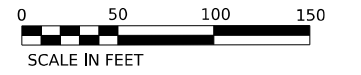
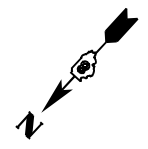
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.

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 DATE: 10/10/2023

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USER NAME = mdeltche	DESIGNED - BL	REVISED -
DRAWN - MD	REVISIONS -	
PLOT SCALE = 100,000' / in.	CHECKED - MH	REVISED -
PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

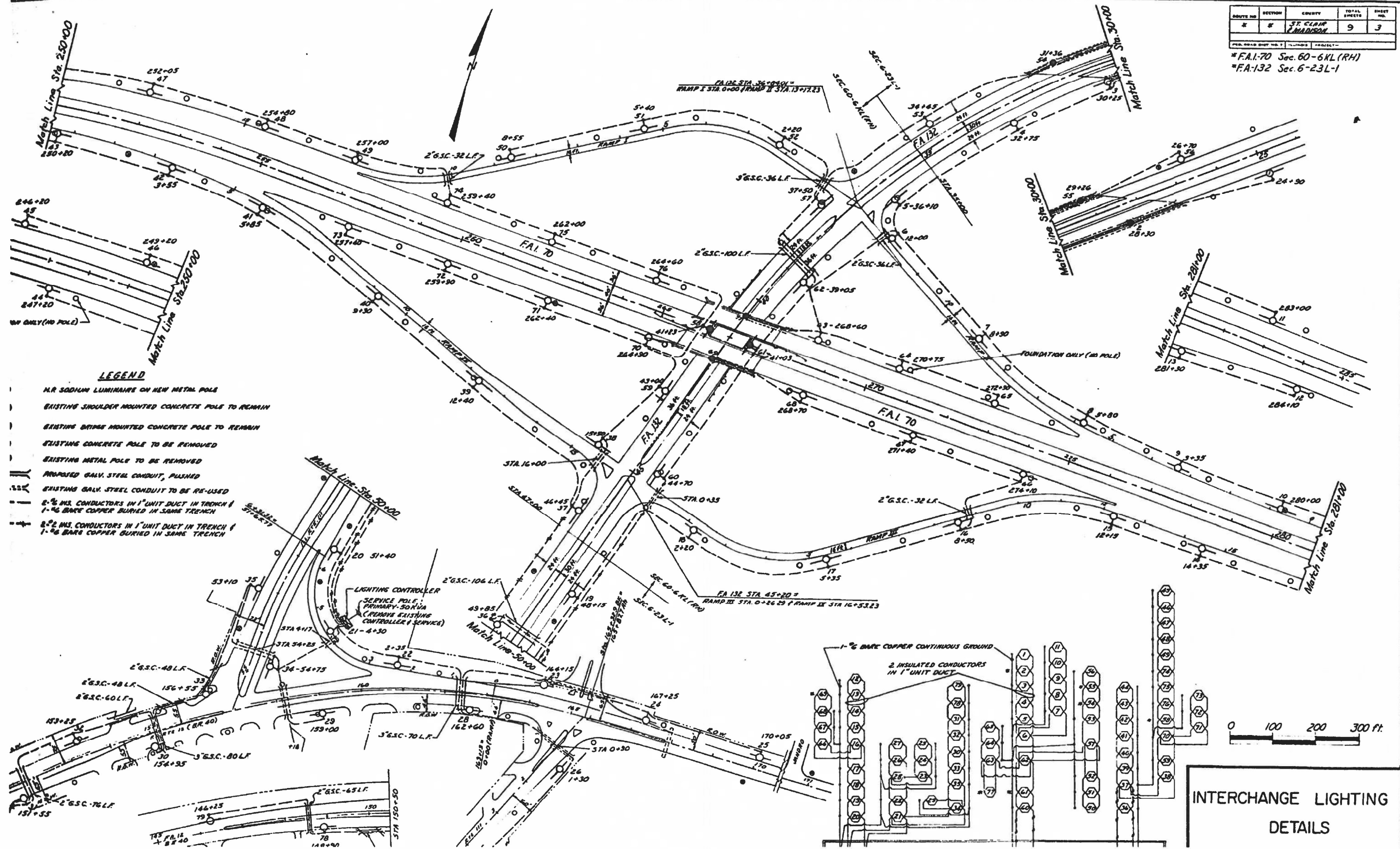
PROPOSED LIGHTING PLAN
IL 111 OVER CAHOKIA CANAL

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

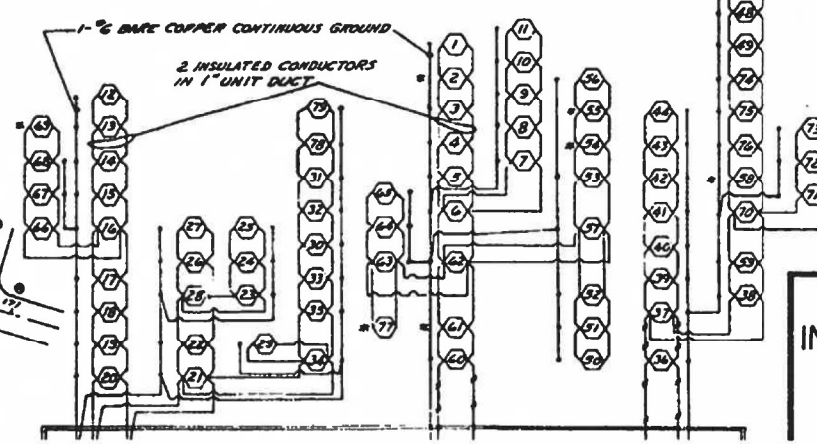
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582	6-23B-1	MADISON	90	37
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

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

*FA.I-70 Sec. 60-6KL (RH)
*FA.I-32 Sec. 6-23L-1



- LEGEND**
- M.R. 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, PUSHED
 - EXISTING GALV. STEEL CONDUIT TO BE RE-USED
 - 2" G.S.C. CONDUCTORS IN 1" UNIT DUCT IN TRENCH / 1-#6 BARE COPPER BURIED IN SAME TRENCH
 - 3" G.S.C. CONDUCTORS IN 1" UNIT DUCT IN TRENCH / 1-#6 BARE COPPER BURIED IN SAME TRENCH



**INTERCHANGE LIGHTING
DETAILS**

FOR INFORMATION ONLY

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

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 CHECKED - MH
 DATE - 08-11-23

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AS BUILTS
 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	38

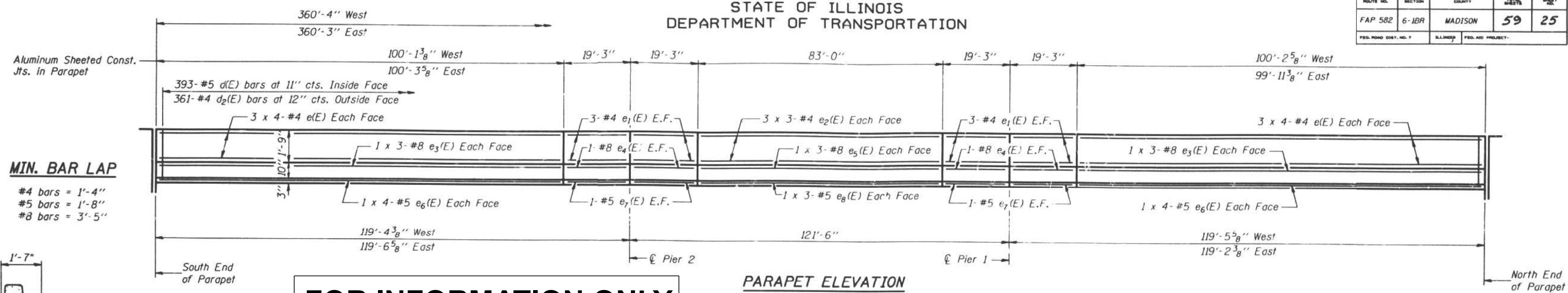
CONTRACT NO. 76H49

ILLINOIS FED. AID PROJECT

LT-04

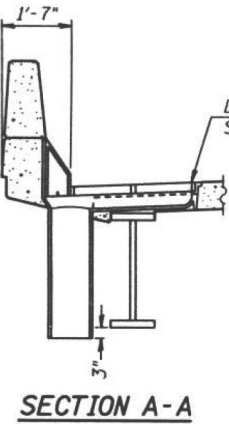
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	JEET	POST	SHEET NO. 7
FAP 582	6-1BR	MADISON	59	25	26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

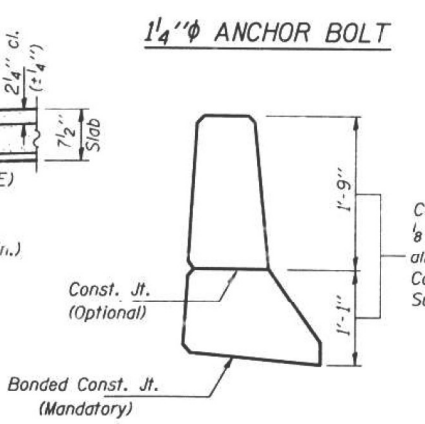
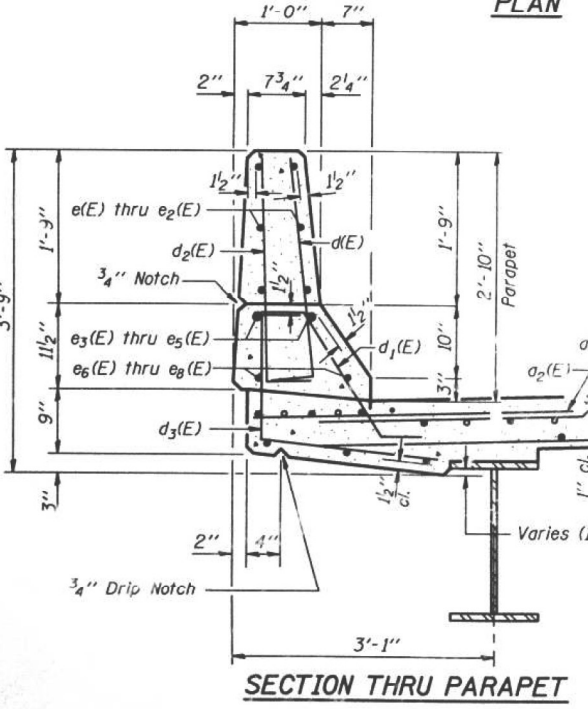
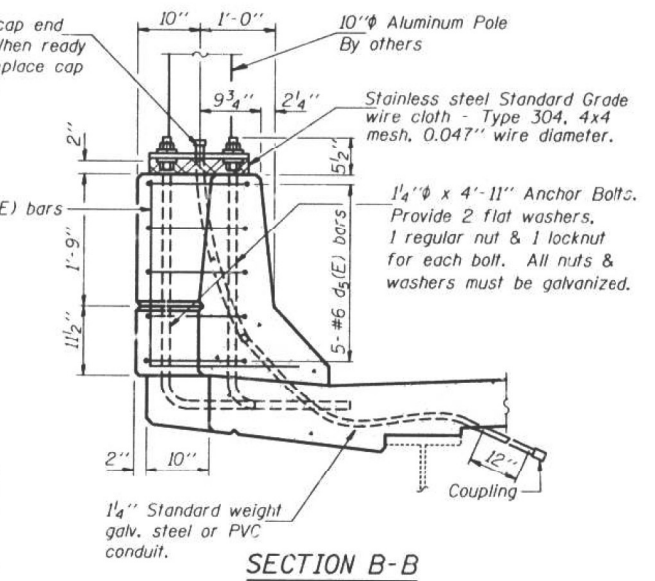
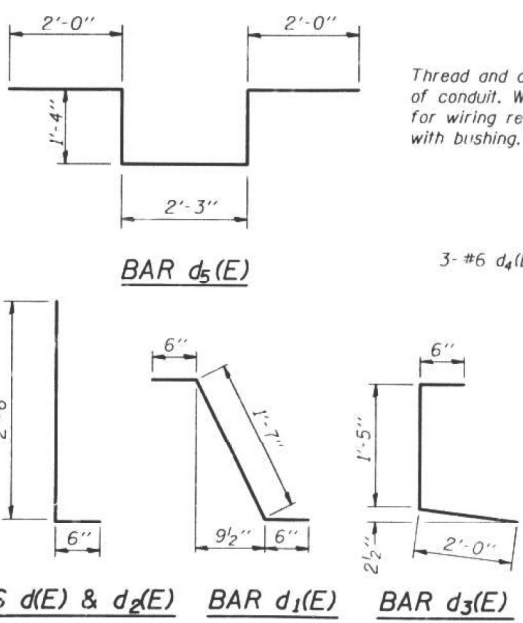
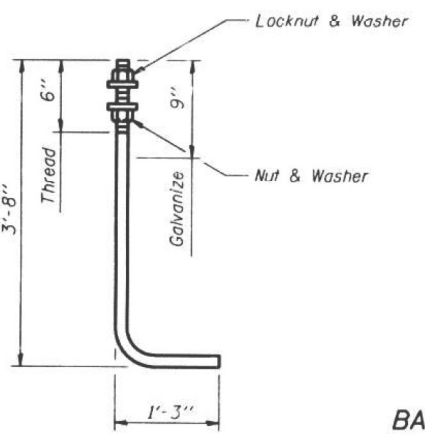
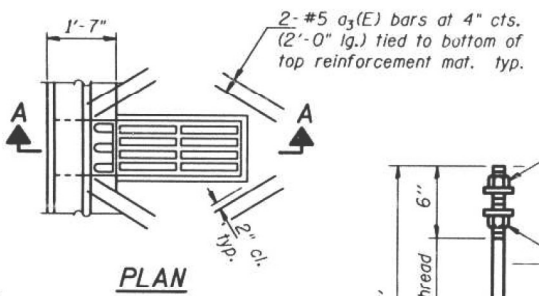


MIN. BAR LAP
 #4 bars = 1'-4"
 #5 bars = 1'-8"
 #8 bars = 3'-5"

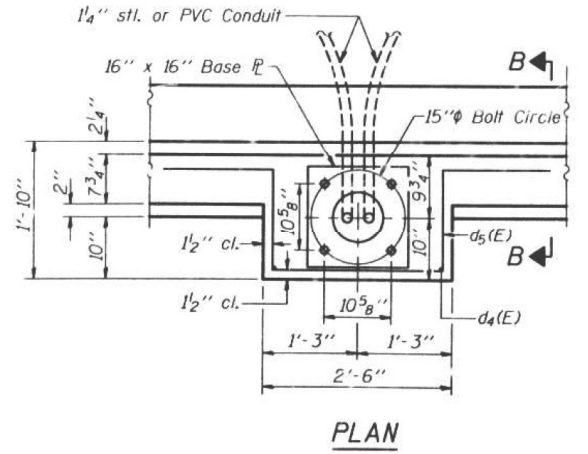
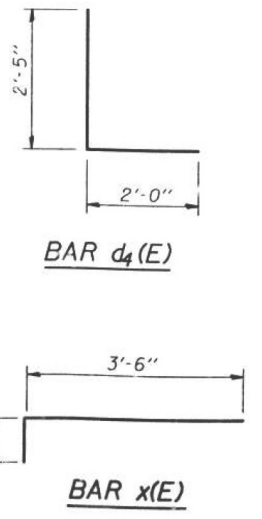
FOR INFORMATION ONLY



Drainage Scupper, DS-23
See sheet 8 of 26 for details.



Const. Jts. at locations shown above.
1/8" Aluminum sheet ASTM B 209
alloy 3003-H14.
Cost included with Concrete Superstructure



DESIGNED Ruben Boehler
 CHECKED Dewey Coultas
 DRAWN BECKY M. CURRY
 CHECKED R.V.B. & D.H.C.
 S-2-D 4-30-99

May 18, 2001
 EXAMINED *Thomas J. Donaghy*
 ENGINEER OF PUBLIC DESIGN
 PASSED *Rubén E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

Notes:
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 Cut longitudinal reinforcement to clear Drainage Scuppers.
 For locations of Drainage Scuppers see sheet 1 of 26.

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	1357	#5	36'-10"		
a1(E)	12	#5	26'-3"		
a2(E)	782	#6	4'-0"		
a3(E)	32	#5	2'-0"		
b(E)	546	#5	29'-3"		
b1(E)	234	#6	26'-0"		
b2(E)	588	#5	27'-3"		
d(E)	786	#5	3'-0"		
d1(E)	786	#5	2'-7"		
d2(E)	722	#4	3'-0"		
d3(E)	722	#4	3'-11"		
d4(E)	3	#6	4'-5"		
d5(E)	5	#6	8'-11"		
e(E)	96	#4	26'-0"		
e1(E)	48	#4	19'-0"		
e2(E)	36	#4	28'-6"		
e3(E)	24	#8	35'-8"		
e4(E)	16	#8	19'-0"		
e5(E)	12	#8	29'-11"		
e6(E)	32	#5	26'-3"		
e7(E)	16	#5	19'-0"		
e8(E)	12	#5	28'-9"		
x(E)	72	#5	4'-1"		
Reinforcement Bars, Epoxy Coated				Pound	116,610
Concrete Superstructure				Cu. Yds.	437.7

Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 1 x 3-#5 etc. indicates 1 line of bars with 3 lengths per line.

SUPERSTRUCTURE DETAILS
 F.A.P. ROUTE 582 - SECTION 6-1BR
 MADISON COUNTY
 STATION 119+30.22
 STRUCTURE NO. 060-0244

Note:
 Cost of anchor bolts & conduit is included with Concrete Superstructure.
 For location of Light pole see sheet 1 of 26.



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

1. 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.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. 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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PLOT DATE = 10/10/2023	DATE - 08-11-23	REVISED -

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

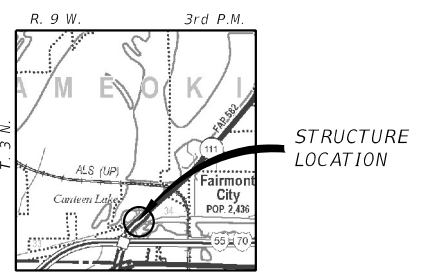
BM2: Top of Wingwall
SB 111 Sta 231+85.67,
22.06' Rt
EI 418.06

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'.

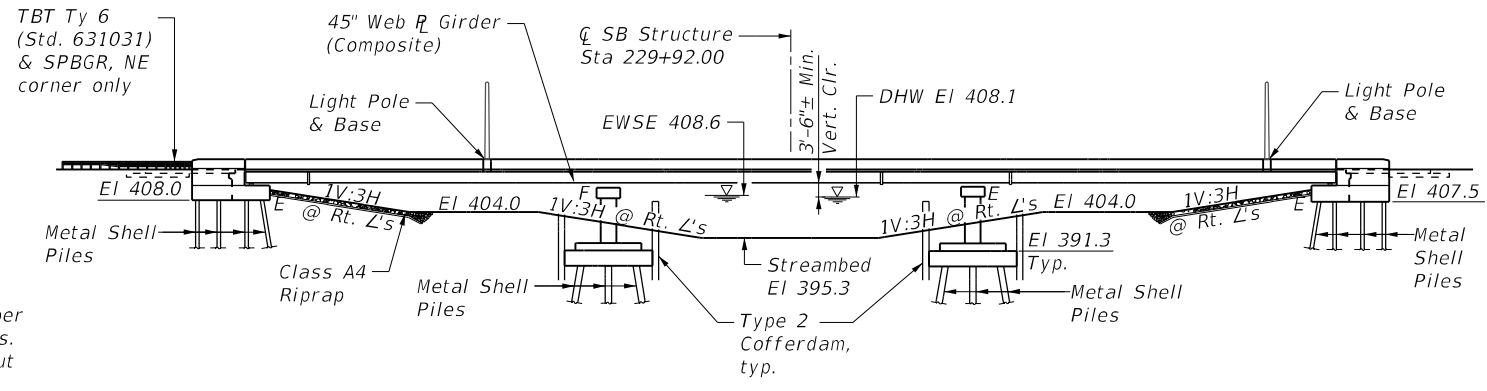
The structure is to be removed and replaced, including removal of the existing concrete pier footings to allow location of existing piles, repositioning proposed piles to miss them, and construction of the proposed pier footings.

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

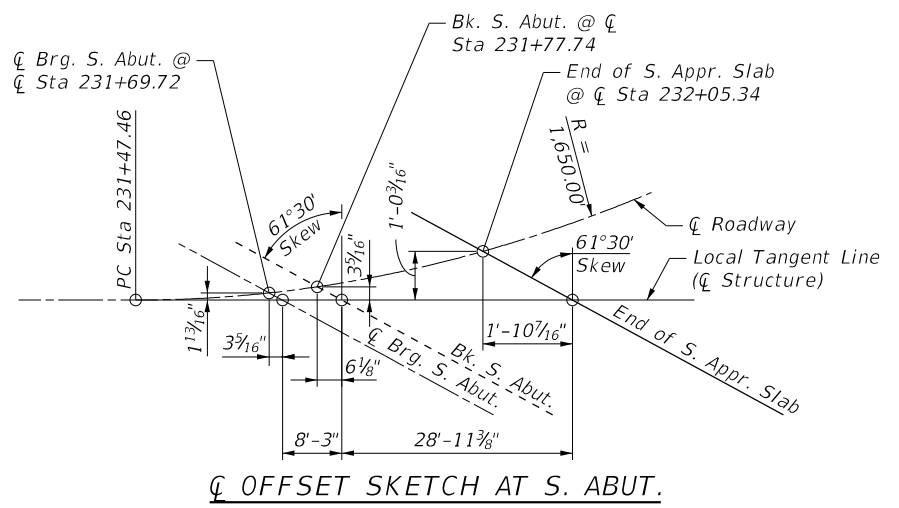
SALVAGE: No salvage



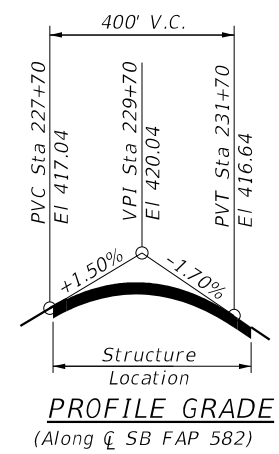
LOCATION SKETCH



ELEVATION



OFFSET SKETCH AT S. ABUT.



PROFILE GRADE (Along SB FAP 582)

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

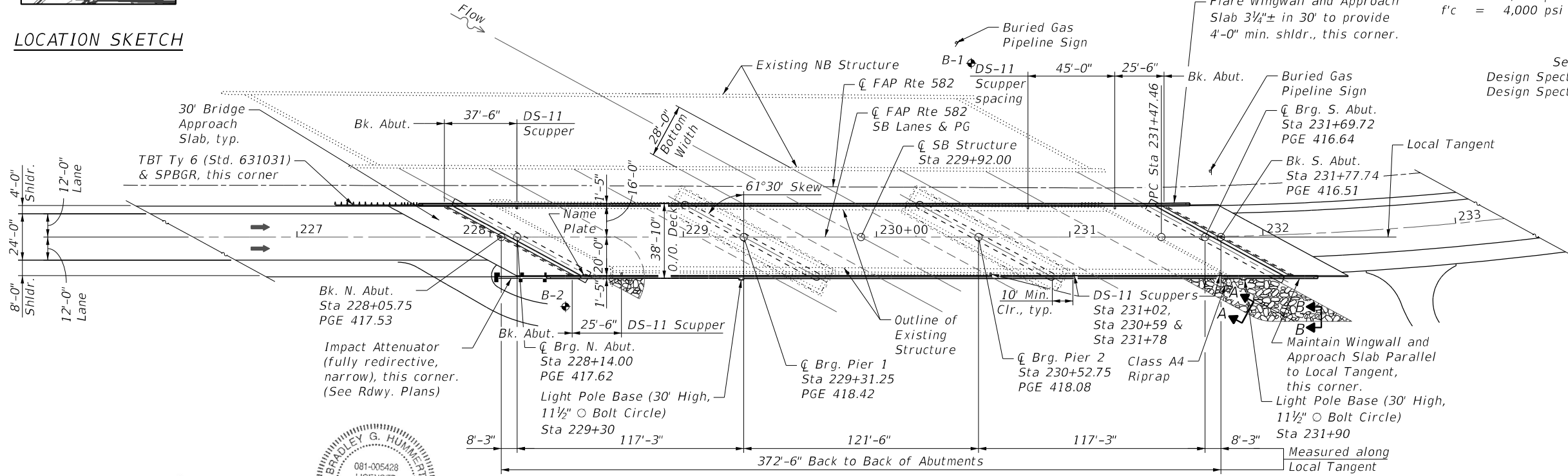
f'c = 3,500 psi
fy = 60,000 psi (reinf.)
f'c = 4,000 psi (Superstructure Concrete)
fy = 50,000 psi (M270 Gr. 50)

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
Δ = 12° 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



PLAN

Bradley G. Hummert Date 12/7/23
Bradley G. Hummert
Licensed Structural Engineer
in Illinois No. 081-005428



APPROVED
For Structural Adequacy Only
Jay F. ...
Engineer of Bridges & Structures

Expires: November 30, 2024



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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

GENERAL PLAN & ELEVATION

SCALE: SHEET 1 OF 41 SHEETS STA. TO STA.

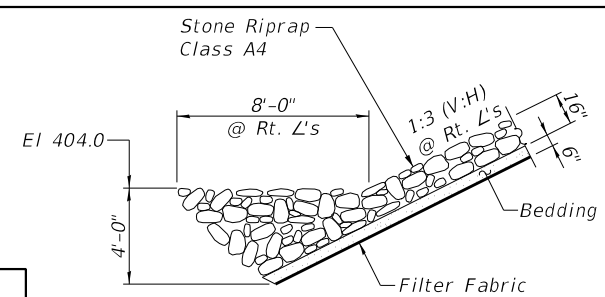
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582	6-23B-1	MADISON	90	41

CONTRACT NO. 76H49
ILLINOIS FED. AID PROJECT

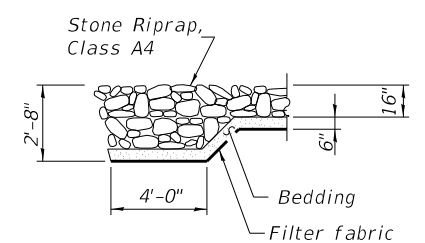
STATION 229+92
 BUILT 20__ BY
 STATE OF ILLINOIS
 FAP RTE 582 SEC. 6-23B-1
 F.A. PROJ. NO. _____
 LOADING HL-93
 STR. NO. 060-0347

NAME PLATE

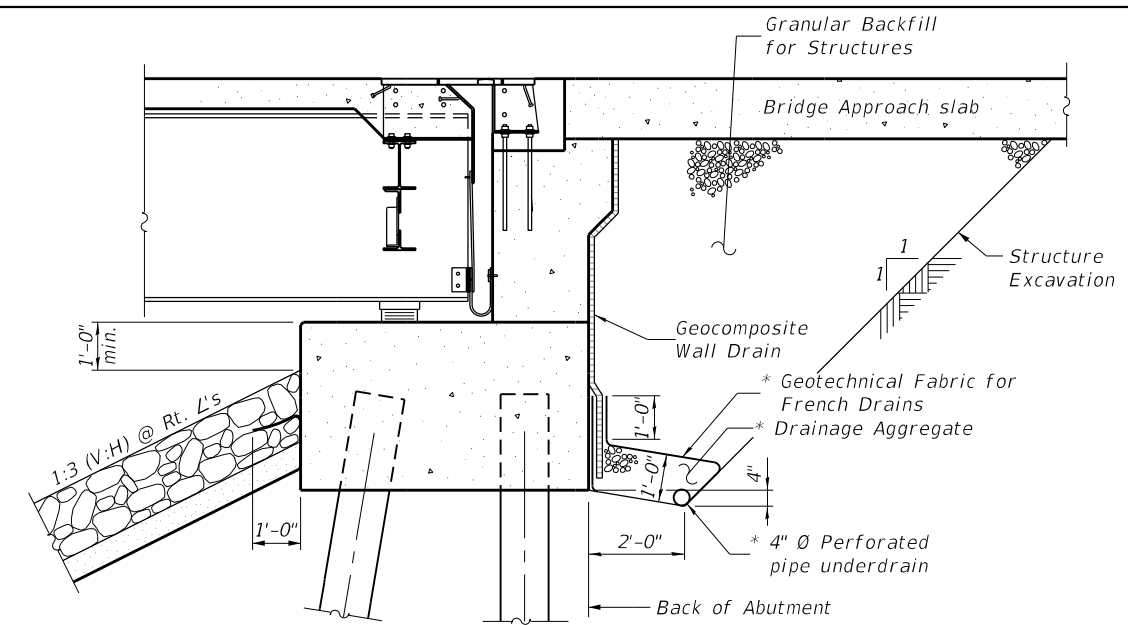
Locate Name Plate as shown in Plan View. (See Std. 515001)



SECTION A-A



SECTION B-B

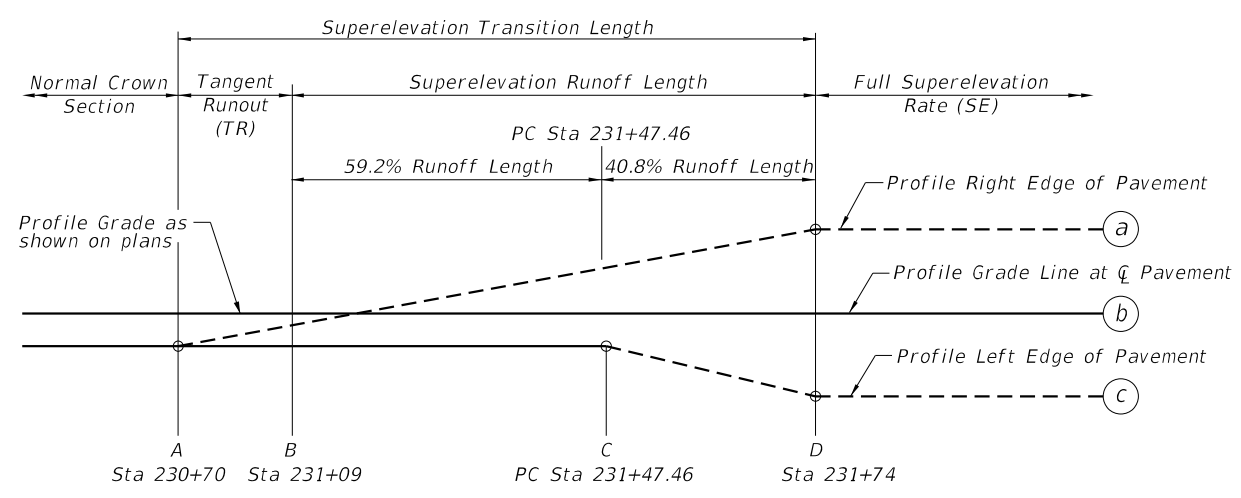


SECTION THRU PILE SUPPORTED STUB ABUTMENT

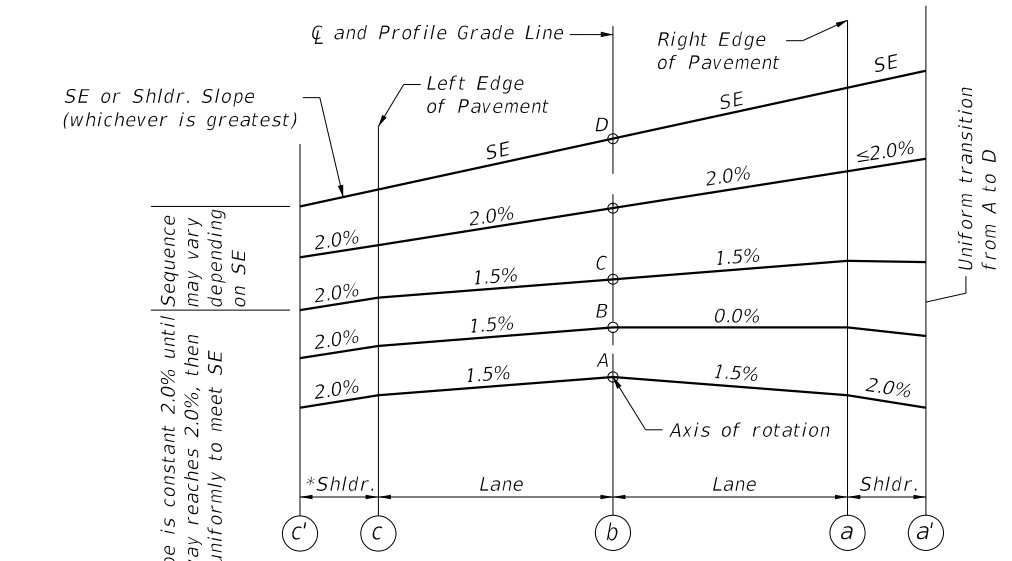
* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall before turning and extending to intersect slope under bridge. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



(a) (c) Profile Edge of Shoulder not shown above for clarity.



METHOD OF ATTAINING SUPERELEVATION

INDEX OF BRIDGE SHEETS

1. General Plan & Elevation
2. General Data
3. Footing Layout and Construction Details
4. Top of Slab Elevations
5. Top of Slab Elevations
6. Top of Slab Elevations
7. Top of Slab Elevations
8. Top of Slab Elevations
9. Top of North Approach Slab Elevations
10. Top of South Approach Slab Elevations
11. Superstructure
12. Superstructure Details
13. Superstructure Details
14. Bridge Approach Slab Details - North Abutment
15. Bridge Approach Slab Details - North Abutment
16. Bridge Approach Slab Details - South Abutment
17. Bridge Approach Slab Details - South Abutment
18. Finger Plate Expansion Joint Details
19. Finger Plate Expansion Joint Details
20. Finger Plate Expansion Joint Details
21. Finger Plate Expansion Joint Details
22. Finger Plate Expansion Joint Details
23. Drainage Scupper, DS-11
24. Structural Steel
25. Structural Steel Details
26. Structural Steel Details
27. Guided Expansion HLMR Disc Bearing Details - North Abutment
28. Guided Expansion HLMR Disc Bearing Details - South Abutment
29. Guided Expansion HLMR Disc Bearing Details - Pier 2
30. North Abutment
31. North Abutment
32. North Abutment
33. South Abutment
34. South Abutment
35. South Abutment
36. Pier 1
37. Pier 2
38. Metal Shell Pile Details
39. Bar Splicer Assembly and Mechanical Splicer Details
40. Boring Logs
41. Boring Logs

GENERAL NOTES

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot dip galvanized bolts in metallized areas or mechanically galvanized bolts in painted areas. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted.
2. Calculated weight of Structural Steel = 600,500 lbs.
3. All structural steel shall be AASHTO M270 Grade 50. See special provision for "Metalizing of Structural Steel".
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
7. Slipforming of the parapets is not allowed.
8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
9. A film forming Concrete Sealer shall be applied to the horizontal surfaces of the abutment seats. A penetrating Concrete Sealer shall be applied to the vertical exposed surfaces, including backwalls & front faces of caps. Concrete Sealers shall be applied prior to setting bearings.
10. The Seal Coat design thickness is based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details and seal coat thickness shall be submitted to the Engineer for approval. The CDWE is equal to the Estimated Water Surface Elevation (EWSE) plus 3 feet.
11. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
12. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
13. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat shall be Gray, Munsell No 5B 7/1.
14. All structural steel girders, cross-frames, and exposed surfaces of bearings within a distance of 12 ft. longitudinally from the end of each girder web shall be metallized and shop painted with System 3. The color of the final finish coat of paint shall be Gray, Munsell No 5B 7/1. See special provision for "Metalizing of Structural Steel."
15. Drains shall be located clear of all diaphragms and cross frames.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Stone Riprap, Class A4	Sq Yd	—	558	558
Filter Fabric	Sq Yd	—	558	558
Grout for use with Riprap	Cu Yd	—	15	15
Removal of Existing Structures	Each	—	—	1
Structure Excavation	Cu Yd	—	727	727
Cofferdam Excavation	Cu Yd	—	1,347	1,347
Cofferdam (Type 2) (Location-1)	Each	—	1	1
Cofferdam (Type 2) (Location-2)	Each	—	1	1
Concrete Structures	Cu Yd	—	772.8	772.8
Concrete Superstructure	Cu Yd	—	489.7	489.7
Bridge Deck Grooving	Sq Yd	1,692	—	1,692
Seal Coat Concrete	Cu Yd	—	510	510
Protective Coat	Sq Yd	2,066	—	2,066
Concrete Superstructure (Approach Slab)	Cu Yd	104.4	—	104.4
Furnishing & Erecting Structural Steel	L.Sum	1	—	1
Stud Shear Connectors	Each	10,780	—	10,780
Reinforcement Bars, Epoxy Coated	Pound	173,400	70,290	243,690
Mechanical Splicers	Each	—	120	120
Furnishing Metal Shell Piles 14" x 0.312"	Foot	—	6,922	6,922
Driving Piles	Foot	—	6,922	6,922
Test Pile Metal Shells	Each	—	4	4
Pile Shoes	Each	—	88	88
Name Plates	Each	—	—	1
Finger Plate Expansion Joint, 2"	Foot	76	—	76
Finger Plate Expansion Joint, 3"	Foot	76	—	76
Fabric Reinforced Elastomeric Trough	Foot	—	169	169
Anchor Bolts, 3/4"	Each	—	40	40
Anchor Bolts, 1"	Each	—	20	20
Anchor Bolts, 1 1/2"	Each	—	10	10
Granular Backfill for Structures	Cu Yd	—	287	287
Concrete Sealer	Sq Ft	—	—	2,250
Geocomposite Wall Drain	Sq Yd	—	141	141
Pipe Underdrains for Structures 4"	Foot	—	300	300
High Load Multi-Rotational Bearings, Disc, Guided Expansion - 300 k	Each	10	—	10
High Load Multi-Rotational Bearings, Disc, Guided Expansion - 600 k	Each	5	—	5
Drainage Scuppers, DS-11	Each	7	—	7

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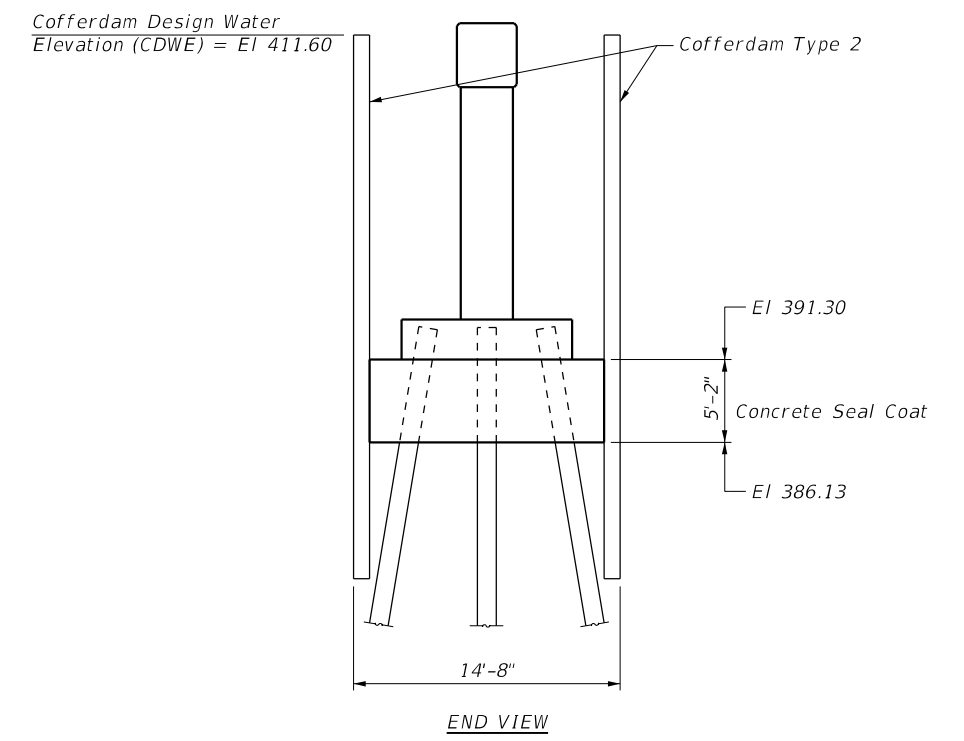
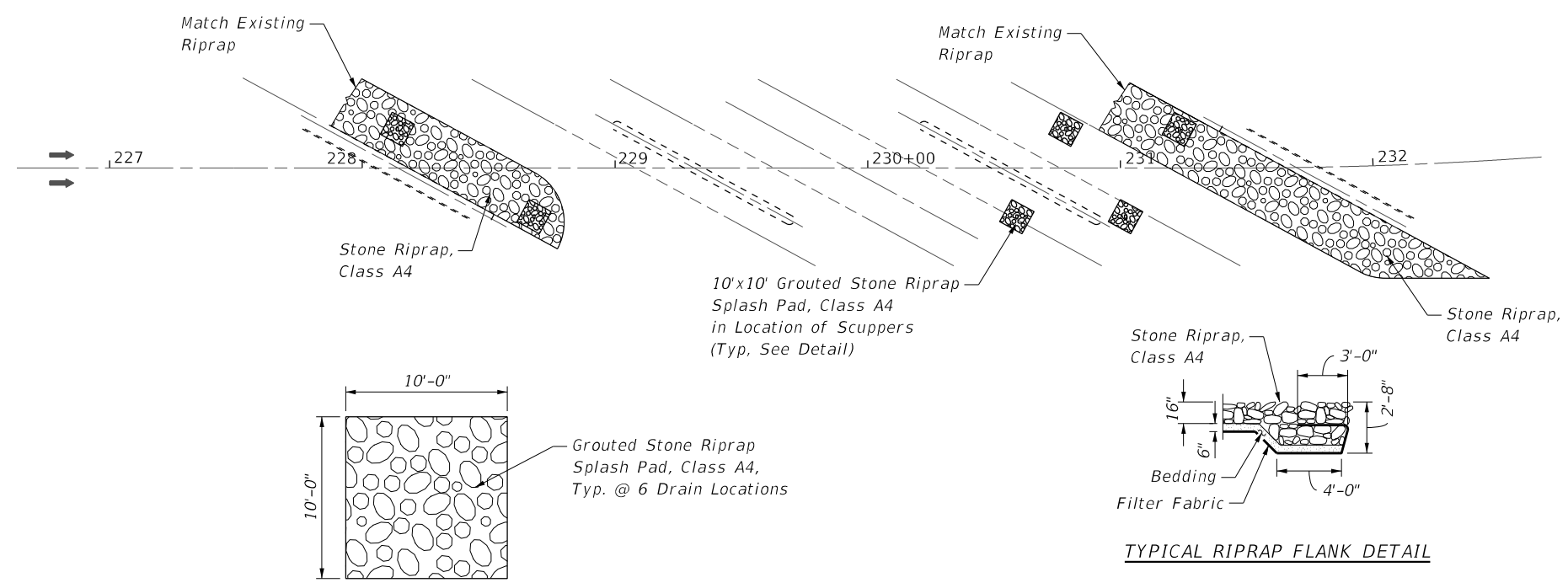
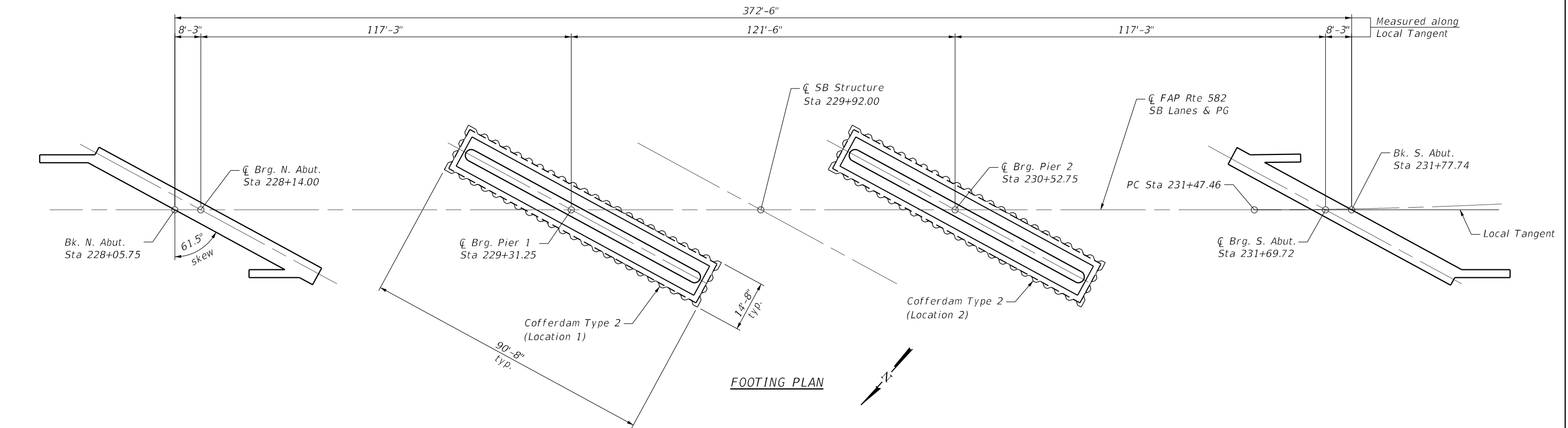


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PLOT DATE = 12/8/2023	CHECKED - BGH	REVISED -
	DATE - 12/08/23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
 STRUCTURE NO. 060-0347**

SCALE:	SHEET 2 OF 41 SHEETS	STA.	TO STA.	F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 42
							CONTRACT NO. 76H49	
							ILLINOIS FED. AID PROJECT	



RIPRAP DETAILS

COFFERDAM DETAIL

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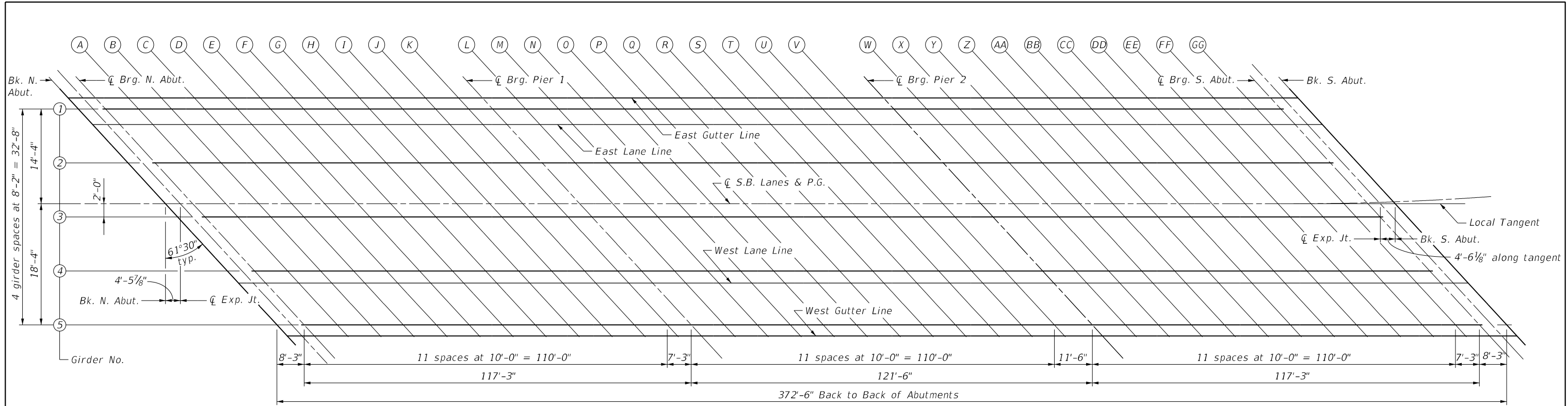
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

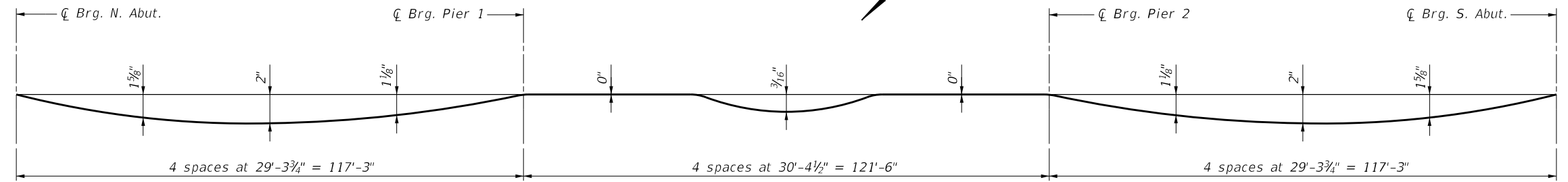
FOOTING LAYOUT AND CONSTRUCTION DETAILS
STRUCTURE NO. 060-0347

SCALE: SHEET 3 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	43
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

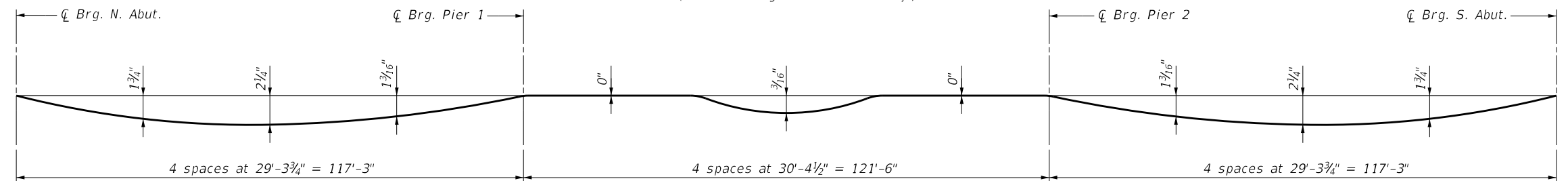


PLAN



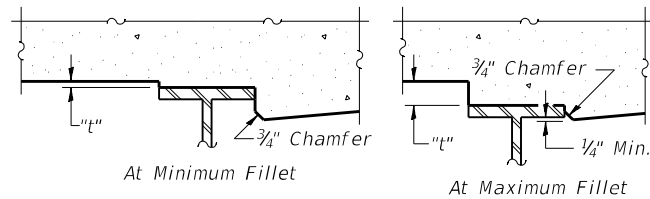
DEAD LOAD DEFLECTION DIAGRAM

(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.

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 PLOT DATE = 12/8/2023

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

USER NAME = tkruop	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**

**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 GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of N Abut.	227+76.28	-16.00	416.87	416.87
CL N Exp. Joint	227+80.77	-16.00	416.94	416.94
CL Brg. N Abut.	227+84.53	-16.00	416.99	416.99
A	227+94.53	-16.00	417.12	417.18
B	228+04.53	-16.00	417.25	417.35
C	228+14.53	-16.00	417.37	417.51
D	228+24.53	-16.00	417.48	417.64
E	228+34.53	-16.00	417.58	417.75
F	228+44.53	-16.00	417.67	417.84
G	228+54.53	-16.00	417.76	417.91
H	228+64.53	-16.00	417.84	417.96
I	228+74.53	-16.00	417.91	417.99
J	228+84.53	-16.00	417.97	418.02
K	228+94.53	-16.00	418.03	418.04
CL Pier 1	229+01.78	-16.00	418.06	418.06
L	229+11.78	-16.00	418.10	418.09
M	229+21.78	-16.00	418.13	418.13
N	229+31.78	-16.00	418.16	418.16
O	229+41.78	-16.00	418.18	418.18
P	229+51.78	-16.00	418.18	418.20
Q	229+61.78	-16.00	418.18	418.20
R	229+71.78	-16.00	418.18	418.19
S	229+81.78	-16.00	418.16	418.17
T	229+91.78	-16.00	418.14	418.14
U	230+01.78	-16.00	418.11	418.10
V	230+11.78	-16.00	418.07	418.06
CL Pier 2	230+23.28	-16.00	418.01	418.01
W	230+33.28	-16.00	417.96	417.98
X	230+43.28	-16.00	417.89	417.95
Y	230+53.28	-16.00	417.82	417.91
Z	230+63.28	-16.00	417.74	417.87
AA	230+73.28	-16.00	417.65	417.80
BB	230+83.28	-16.00	417.55	417.72
CC	230+93.28	-16.00	417.45	417.62
DD	231+03.28	-16.00	417.34	417.49
EE	231+13.28	-16.00	417.21	417.34
FF	231+23.28	-16.00	417.09	417.17
GG	231+33.28	-16.00	416.95	416.99
CL Brg. S Abut.	231+40.53	-16.00	416.85	416.85
CL S Exp. Joint	231+44.29	-16.00	416.79	416.79
Back of S Abut.	231+48.81	-16.00	416.72	416.72

GIRDER NO. 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of N Abut.	227+79.35	-14.33	416.95	416.95
CL N Exp. Joint	227+83.84	-14.33	417.01	417.01
CL Brg. N Abut.	227+87.60	-14.33	417.06	417.06
A	227+97.60	-14.33	417.20	417.25
B	228+07.60	-14.33	417.32	417.42
C	228+17.60	-14.33	417.44	417.57
D	228+27.60	-14.33	417.54	417.71
E	228+37.60	-14.33	417.64	417.81
F	228+47.60	-14.33	417.74	417.90
G	228+57.60	-14.33	417.82	417.97
H	228+67.60	-14.33	417.90	418.01
I	228+77.60	-14.33	417.96	418.05
J	228+87.60	-14.33	418.02	418.07
K	228+97.60	-14.33	418.08	418.09
CL Pier 1	229+04.85	-14.33	418.11	418.11
L	229+14.85	-14.33	418.15	418.14
M	229+24.85	-14.33	418.18	418.17
N	229+34.85	-14.33	418.20	418.20
O	229+44.85	-14.33	418.21	418.22
P	229+54.85	-14.33	418.22	418.23
Q	229+64.85	-14.33	418.22	418.23
R	229+74.85	-14.33	418.21	418.22
S	229+84.85	-14.33	418.19	418.20
T	229+94.85	-14.33	418.16	418.16
U	230+04.85	-14.33	418.13	418.12
V	230+14.85	-14.33	418.09	418.08
CL Pier 2	230+26.35	-14.33	418.03	418.03
W	230+36.35	-14.33	417.97	417.99
X	230+46.35	-14.33	417.90	417.96
Y	230+56.35	-14.33	417.83	417.92
Z	230+66.35	-14.33	417.74	417.87
AA	230+76.35	-14.33	417.65	417.81
BB	230+86.35	-14.33	417.55	417.72
CC	230+96.35	-14.33	417.45	417.62
DD	231+06.35	-14.33	417.33	417.49
EE	231+16.35	-14.33	417.21	417.34
FF	231+26.35	-14.33	417.08	417.17
GG	231+36.35	-14.33	416.94	416.98
CL Brg. S Abut.	231+43.60	-14.33	416.83	416.83
CL S Exp. Joint	231+47.36	-14.33	416.78	416.78
Back of S Abut.	231+51.91	-14.33	416.69	416.71

EAST LANE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Back of N Abut.	227+83.65	-12.00	417.06	417.06
CL N Exp. Joint	227+88.14	-12.00	417.12	417.12
CL Brg. N Abut.	227+91.90	-12.00	417.17	417.17
A	228+01.90	-12.00	417.30	417.35
B	228+11.90	-12.00	417.42	417.52
C	228+21.90	-12.00	417.53	417.67
D	228+31.90	-12.00	417.63	417.80
E	228+41.90	-12.00	417.73	417.90
F	228+51.90	-12.00	417.82	417.99
G	228+61.90	-12.00	417.90	418.05
H	228+71.90	-12.00	417.97	418.09
I	228+81.90	-12.00	418.04	418.12
J	228+91.90	-12.00	418.09	418.14
K	229+01.90	-12.00	418.14	418.16
CL Pier 1	229+09.15	-12.00	418.17	418.17
L	229+19.15	-12.00	418.21	418.20
M	229+29.15	-12.00	418.23	418.23
N	229+39.15	-12.00	418.25	418.25
O	229+49.15	-12.00	418.26	418.27
P	229+59.15	-12.00	418.27	418.28
Q	229+69.15	-12.00	418.26	418.28
R	229+79.15	-12.00	418.25	418.26
S	229+89.15	-12.00	418.23	418.23
T	229+99.15	-12.00	418.20	418.20
U	230+09.15	-12.00	418.16	418.15
V	230+19.15	-12.00	418.11	418.10
CL Pier 2	230+30.65	-12.00	418.05	418.05
W	230+40.65	-12.00	417.99	418.01
X	230+50.65	-12.00	417.92	417.98
Y	230+60.65	-12.00	417.84	417.93
Z	230+70.65	-12.00	417.75	417.88
AA	230+80.65	-12.00	417.66	417.81
BB	230+90.65	-12.00	417.56	417.73
CC	231+00.65	-12.00	417.45	417.62
DD	231+10.65	-12.00	417.33	417.48
EE	231+20.65	-12.00	417.20	417.33
FF	231+30.65	-12.00	417.07	417.15
GG	231+40.65	-12.00	416.92	416.96
CL Brg. S Abut.	231+47.90	-12.00	416.82	416.82
CL S Exp. Joint	231+51.68	-12.00	416.72	416.72
Back of S Abut.	231+56.19	-12.00	416.65	416.65

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E-S 2-17-2017



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 PLOT DATE = 12/8/2023

DESIGNED - KMM
 DRAWN - KHL
 CHECKED - BGH
 DATE - 12/08/23

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 060-0347

SCALE: SHEET 5 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	45
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

GIRDER NO. 2

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load Deflection. Rows include Back of N Abut., CL N Exp. Joint, CL Brg. N Abut., CL Pier 1, CL Pier 2, CL Brg. S Abut., CL S Exp. Joint, Back of S Abut.

CENTERLINE S.B. LANES & PROFILE GRADE LINE

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load Deflection. Rows include Back of N Abut., CL N Exp. Joint, CL Brg. N Abut., CL Pier 1, CL Pier 2, CL Brg. S Abut., CL S Exp. Joint, Back of S Abut.

GIRDER NO. 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted for Dead Load Deflection. Rows include Back of N Abut., CL N Exp. Joint, CL Brg. N Abut., CL Pier 1, CL Pier 2, CL Brg. S Abut., CL S Exp. Joint, Back of S Abut.

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Table with columns: USER NAME, DESIGNED, DRAWN, CHECKED, PLOT SCALE, PLOT DATE, REVISED, DATE. Values include tkruop, KMM, KHL, BGH, 2.0000' / in., 12/08/23.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS STRUCTURE NO. 060-0347

SCALE: SHEET 6 OF 41 SHEETS STA. TO STA.

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Values include 582, 6-23B-1, MADISON, 90, 46, 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

CL SOUTHBOUND LANES & PROFILE GRADE LINE

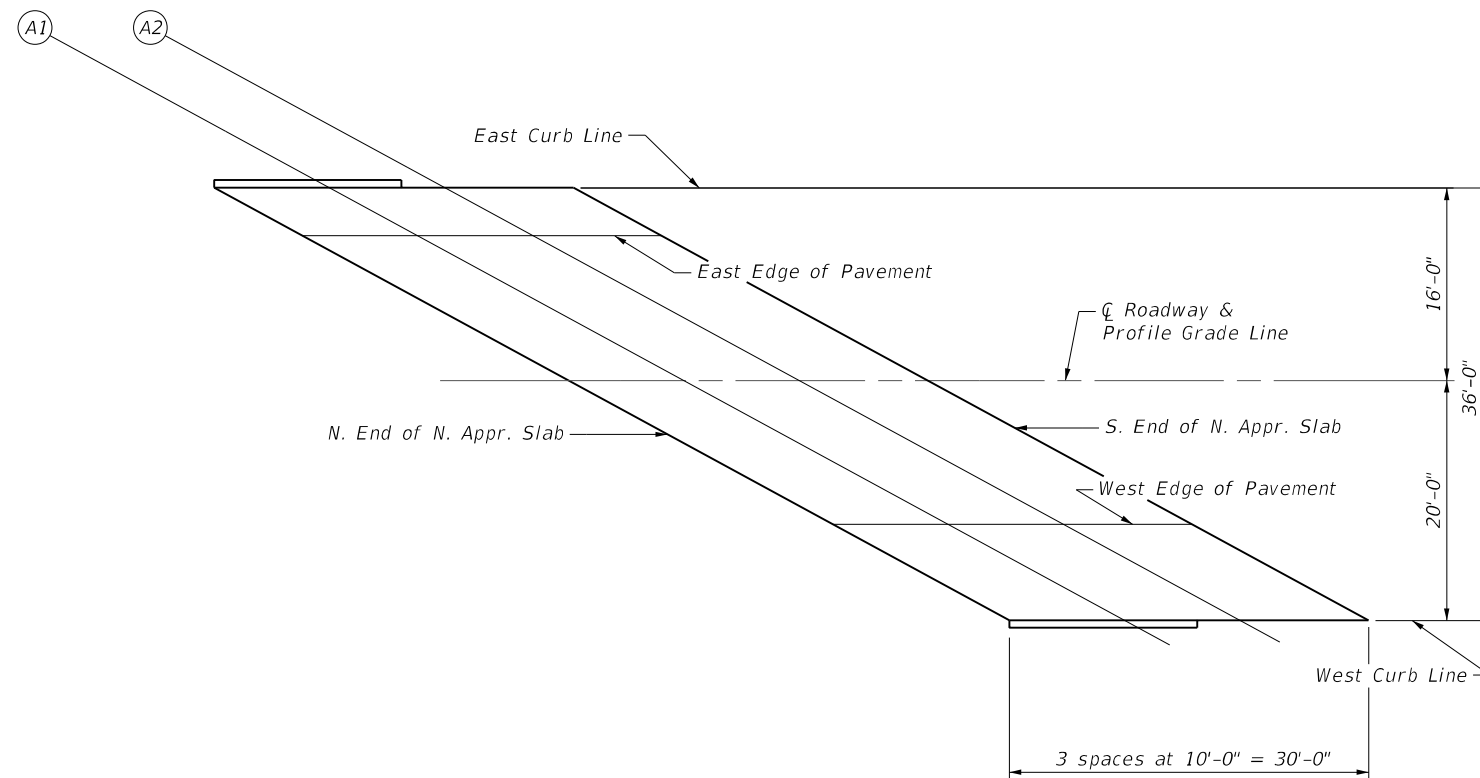
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+76.80	0.00	417.14
A1	227+86.80	0.00	417.28
A2	227+96.80	0.00	417.41
S. End of N. Appr. Slab	228+06.80	0.00	417.54

WEST EDGE OF PAVEMENT

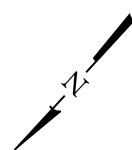
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Appr. Slab	227+98.90	12.00	417.26
A1	228+08.90	12.00	417.38
A2	228+18.90	12.00	417.50
S. End of N. Appr. Slab	228+28.90	12.00	417.60

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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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

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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**

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

SCALE: SHEET 9 OF 41 SHEETS STA. TO STA.

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

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
*N. End of S. Appr. Slab	231+47.70	-16.03	416.74
A3	231+58.09	-16.11	416.53
A4	231+68.00	-16.12	416.32
S. End of S. Appr. Slab	231+77.42	-16.07	416.13

* Flared wingwall. See abutment details.

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	231+55.14	-12.00	416.67
A3	231+65.56	-12.00	416.45
A4	231+75.38	-12.00	416.25
S. End of S. Appr. Slab	231+84.63	-12.00	416.09

☉ SOUTHBOUND LANES & PROFILE GRADE LINE

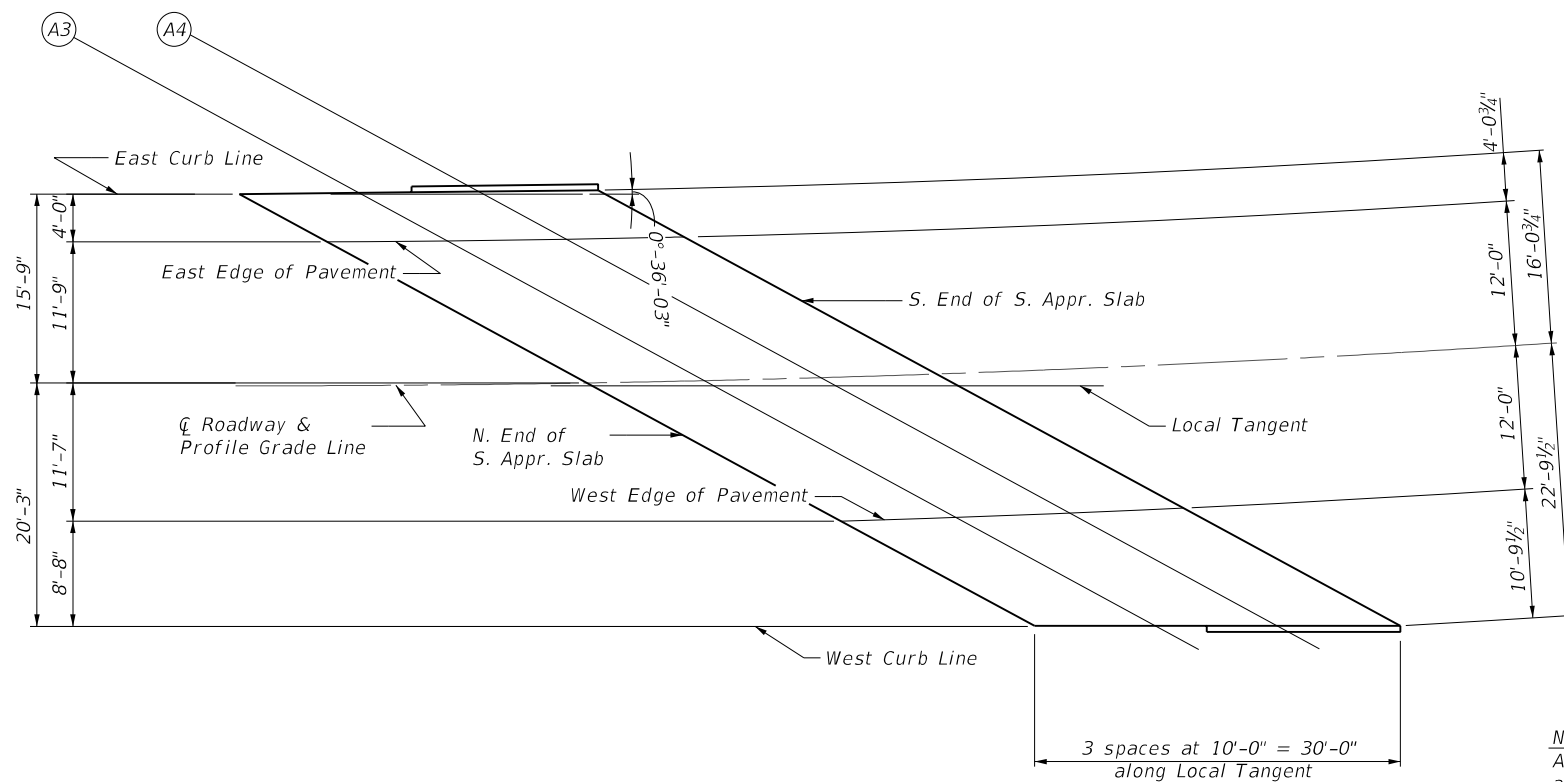
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	231+76.74	0.00	416.53
A3	231+86.85	0.00	416.35
A4	231+96.38	0.00	416.19
S. End of S. Appr. Slab	232+05.36	0.00	416.04

WEST EDGE OF PAVEMENT

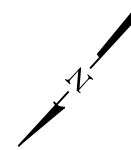
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N. End of S. Appr. Slab	231+97.55	12.00	416.47
A3	232+07.37	12.00	416.30
A4	232+16.64	12.00	416.15
S. End of S. Appr. Slab	232+25.37	12.00	416.01

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	232+13.22	21.33	416.44
A3	232+23.57	21.78	416.28
A4	232+33.43	22.27	416.13
S. End of S. Appr. Slab	232+42.79	22.79	416.00



SOUTH APPROACH PLAN



E-AS 2-17-2017

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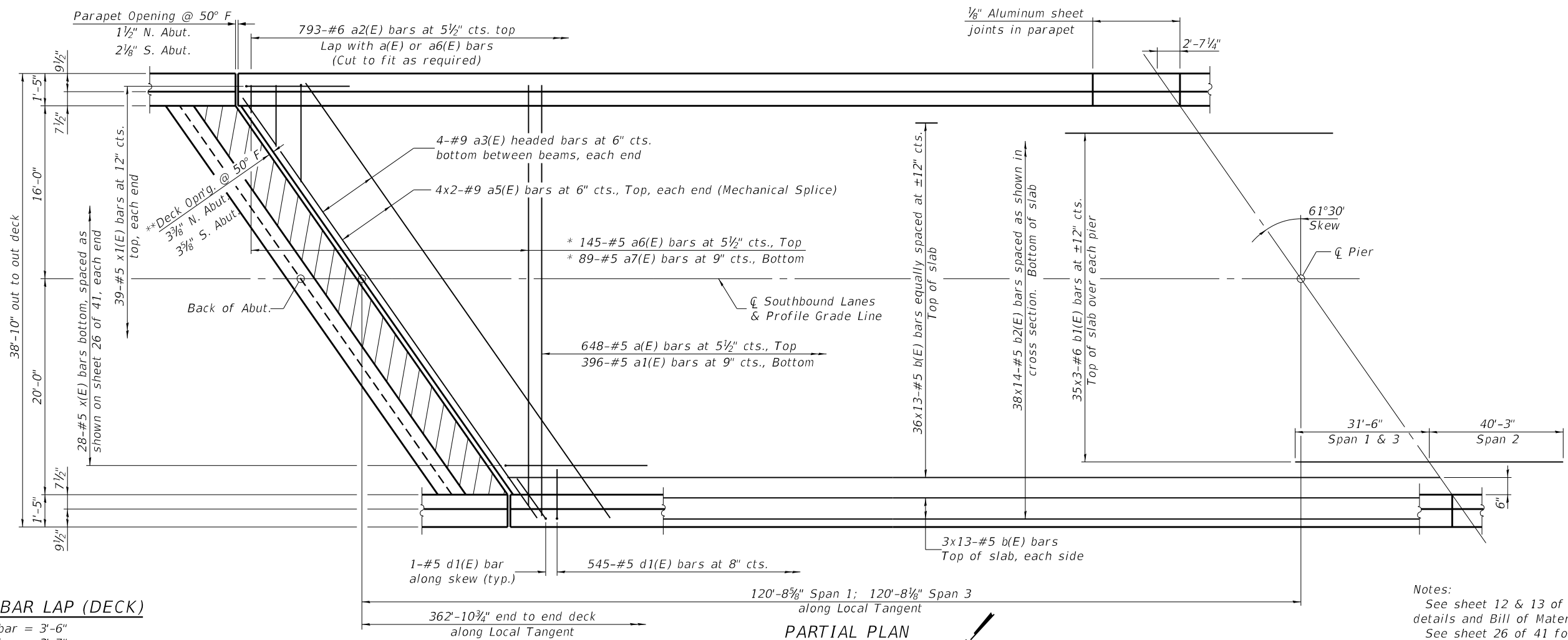


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	DATE - 12/08/23	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 060-0347			
SCALE:	SHEET 10 OF 41 SHEETS	STA.	TO STA.

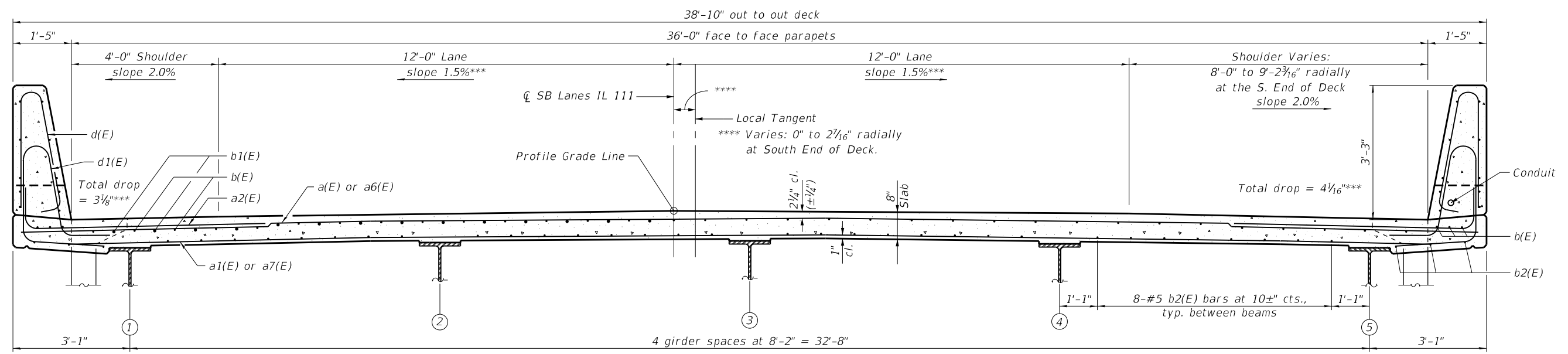
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582	6-23B-1	MADISON	90	50
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



MINIMUM BAR LAP (DECK)

- #5 bar = 3'-6"
- #6 bar = 3'-7"
- #9 bar = 6'-0"

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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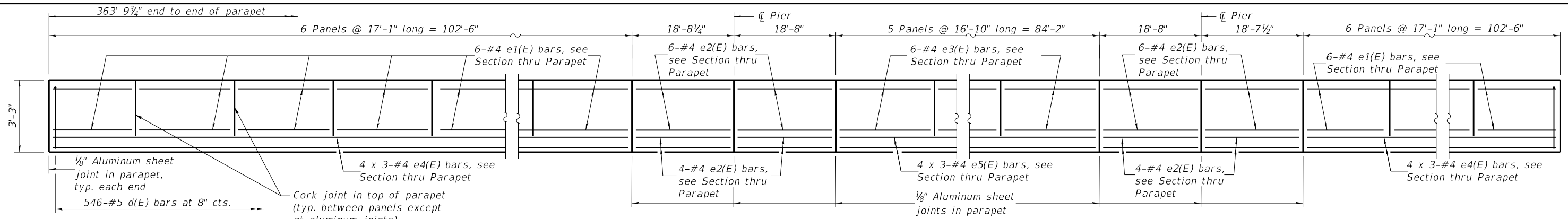
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

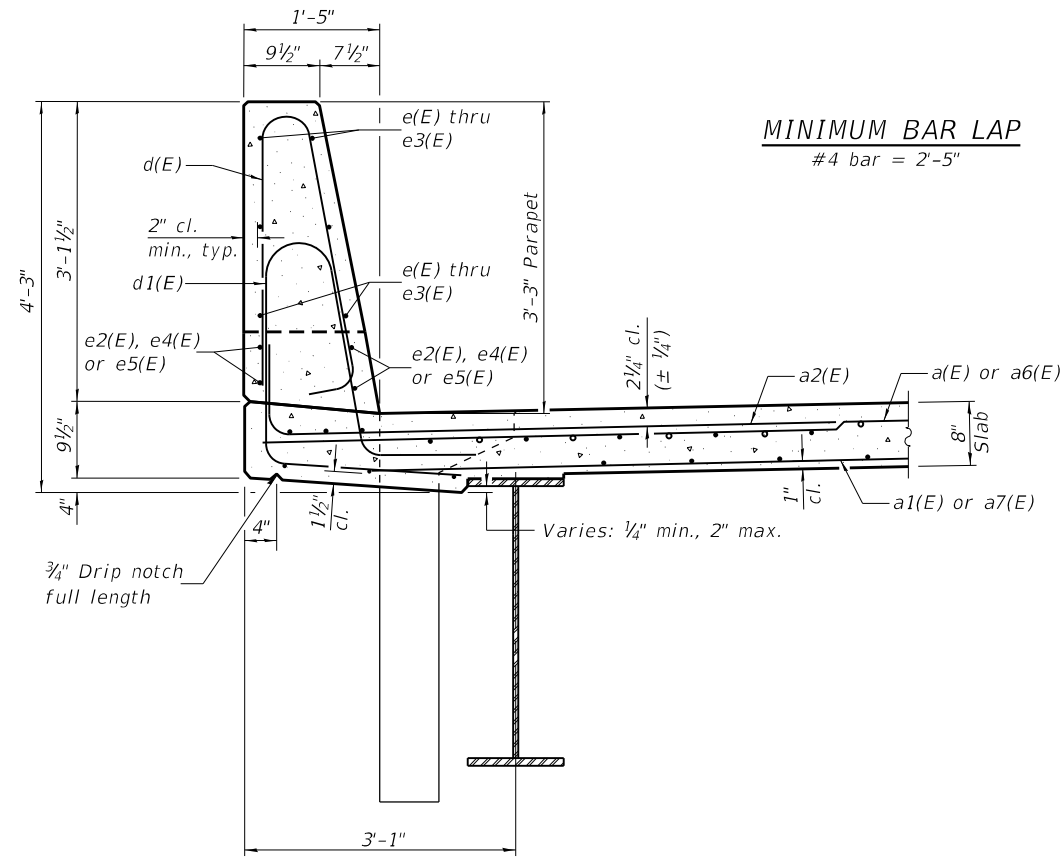
SUPERSTRUCTURE
STRUCTURE NO. 060-0347

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	

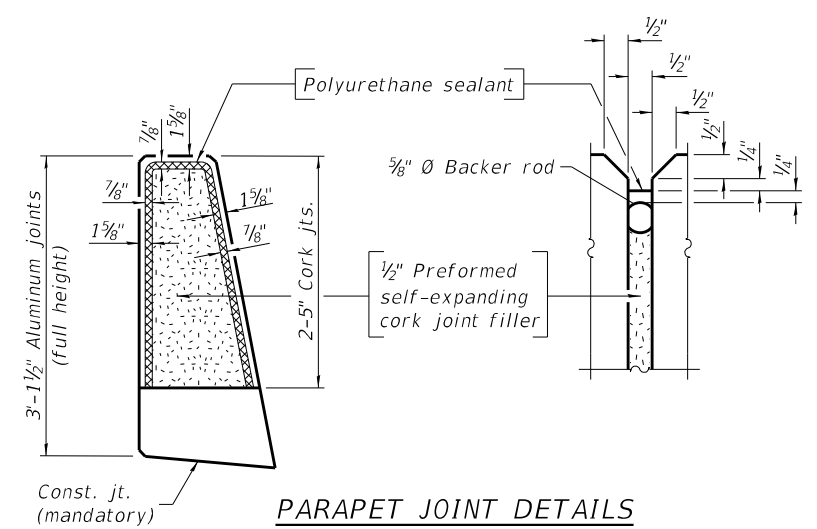


INSIDE ELEVATION OF EAST PARAPET
(West Parapet Similar)

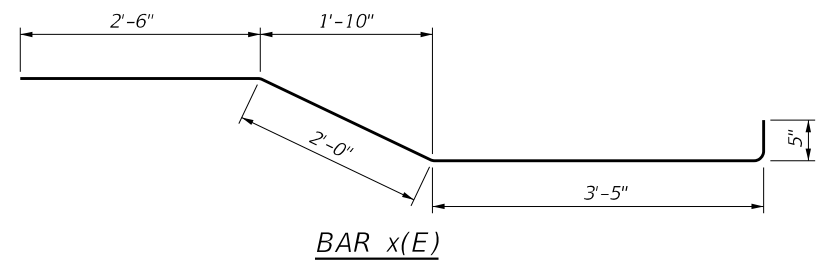


SECTION THRU PARAPET

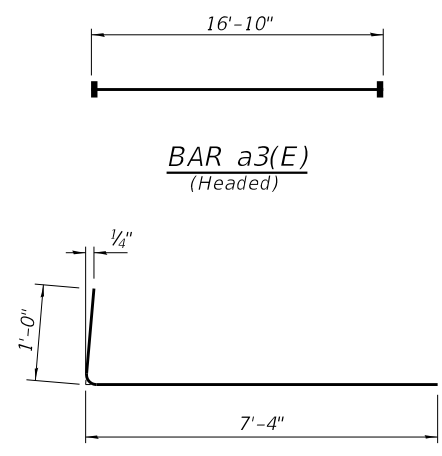
MINIMUM BAR LAP
#4 bar = 2'-5"



PARAPET JOINT DETAILS

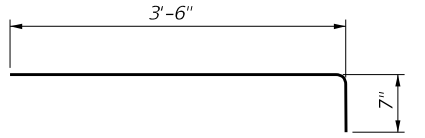


BAR x(E)



BAR a3(E)
(Headed)

BAR a2(E)



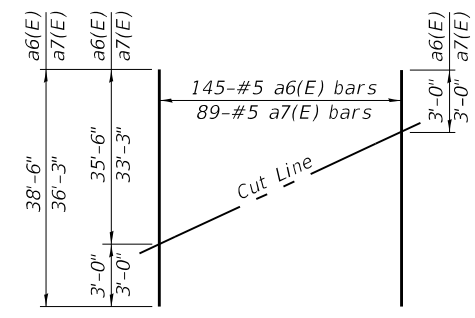
BAR x1(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	648	#5	38'-6"	—
a1(E)	396	#5	36'-3"	—
a2(E)	1,586	#6	8'-4"	—
a3(E)	32	#9	16'-10"	—
a4(E)	96	#5	1'-6"	—
a5(E)	16	#9	39'-0"	—
a6(E)	145	#5	38'-6"	—
a7(E)	89	#5	36'-3"	—
b(E)	546	#5	31'-2"	—
b1(E)	210	#6	26'-4"	—
b2(E)	532	#5	29'-2"	—
d(E)	1,094	#5	6'-5"	—
d1(E)	1,094	#5	8'-4"	—
d2(E)	6	#6	4'-10"	—
d3(E)	12	#6	8'-11"	—
e1(E)	144	#4	16'-10"	—
e2(E)	48	#4	18'-4"	—
e3(E)	60	#4	16'-7"	—
e4(E)	48	#4	35'-9"	—
e5(E)	24	#4	29'-7"	—
x(E)	56	#5	8'-4"	—
x1(E)	78	#5	4'-1"	—
Reinforcement Bars, Epoxy Coated			Pound	137,020
Concrete Superstructure			Cu Yd	489.7
Protective Coat			Sq Yd	1,784
Bridge Deck Grooving			Sq Yd	1,452
Mechanical Splicers			Each	8

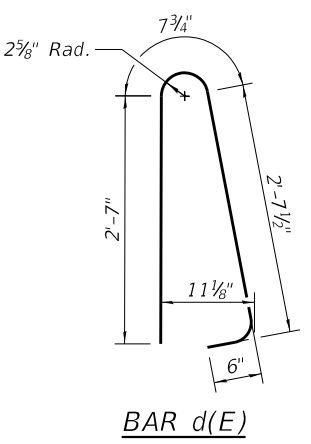
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

Notes:
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
See sheet 26 of 41 for details of bars in ends of deck.

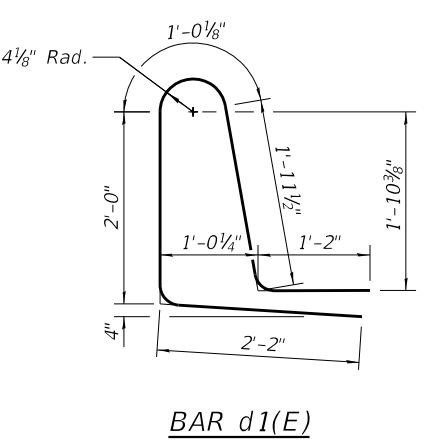


FIELD CUTTING DIAGRAM

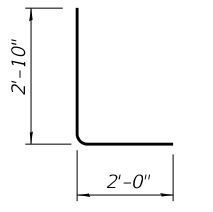
Order a6(E) and a7(E) bars full length.
Cut as shown and use remainder of bars in opposite end of deck.



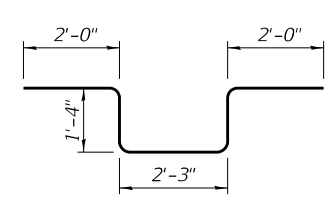
BAR d(E)



BAR d1(E)



BAR d2(E)



BAR d3(E)

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DATE: 12/8/2023

SDI-SB-2 2-1-2023



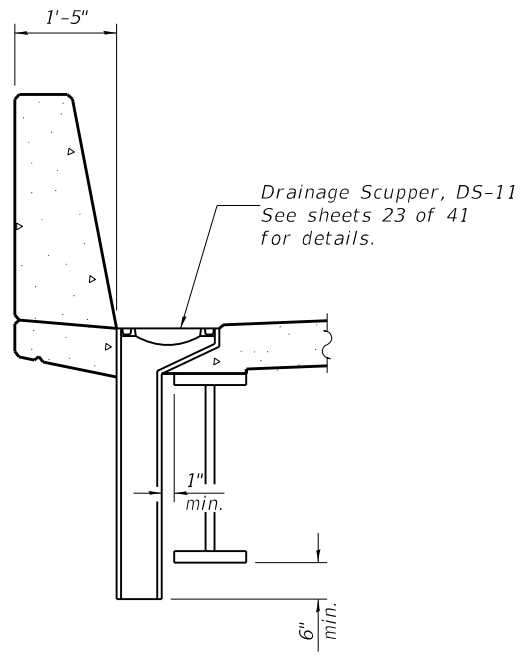
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

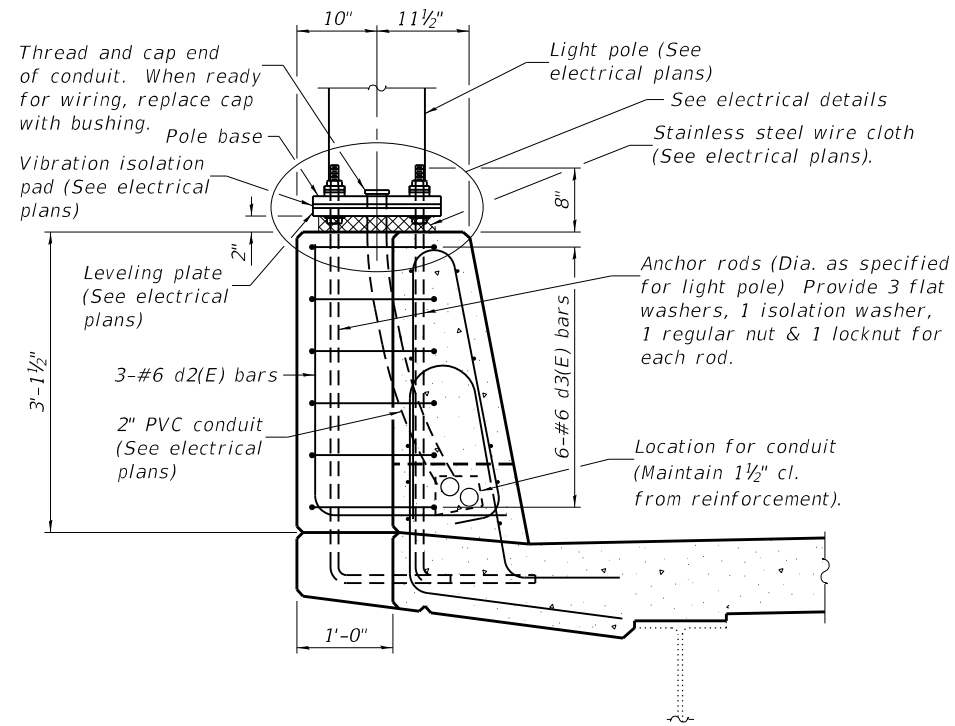
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0347

SCALE: SHEET 12 OF 41 SHEETS STA. TO STA.

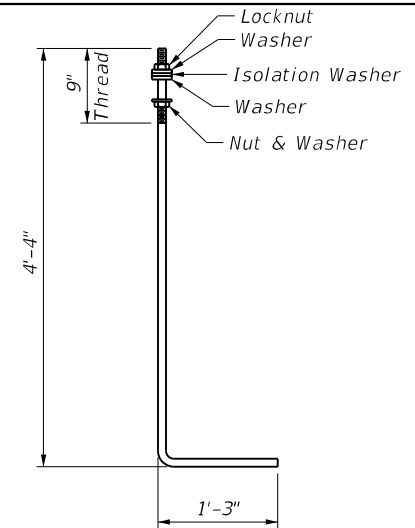
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	52
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



SECTION A-A

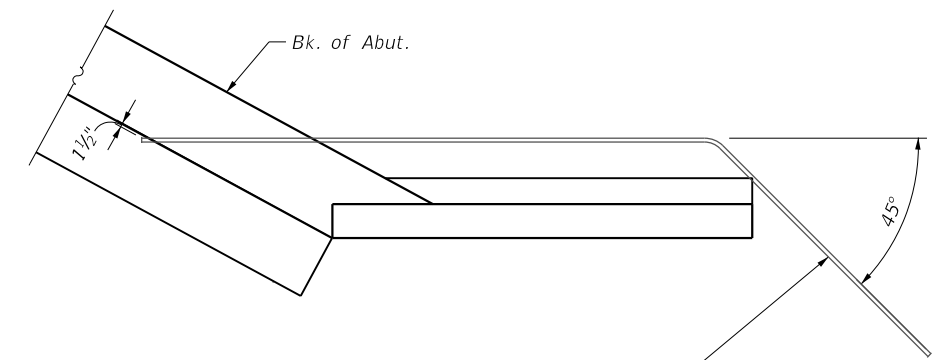


SECTION B-B



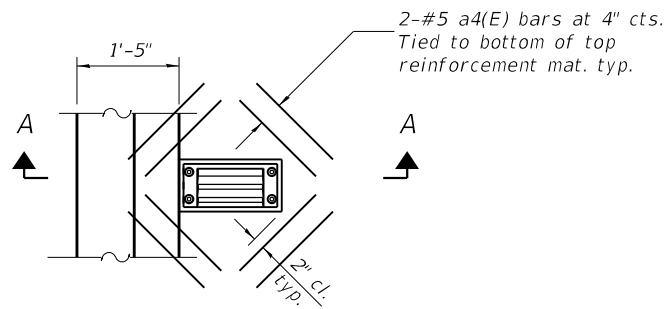
ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dipped galvanized.



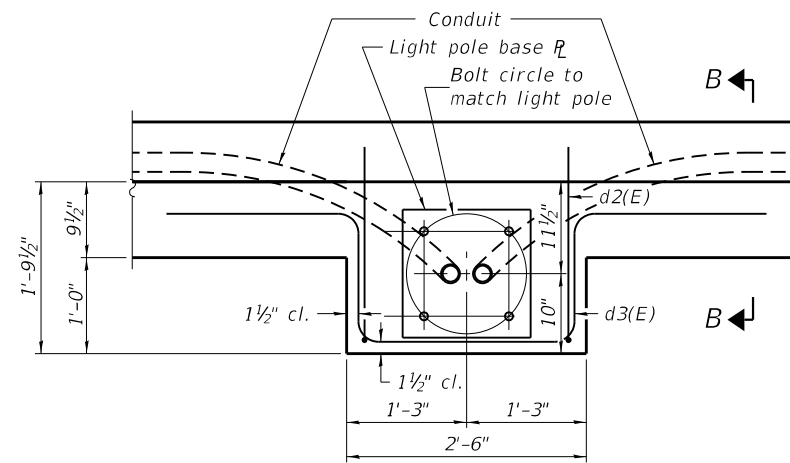
Locate 2" Ø conduit 12"± inside of fascia beam web and parallel to beam line. Extend to clear the wingwall and terminate at a point outside of shoulder. Thread and cap each end. Cost included with Concrete Structures.

PLAN



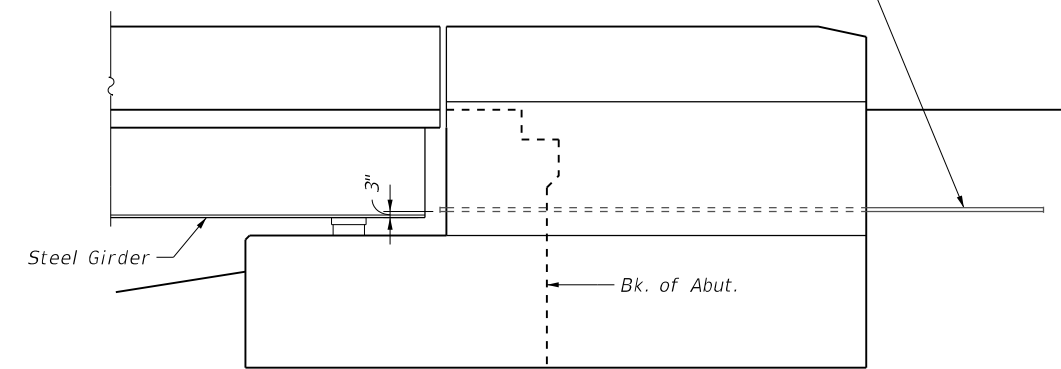
PLAN AT SCUPPER

Note:
Cut longitudinal reinforcement to clear drainage scuppers.



PLAN AT LIGHT POLE BASE

Note:
Cost of anchor rods is included with Concrete Superstructure.



ELEVATION

ELECTRICAL CONDUIT AT ABUTMENT

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HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

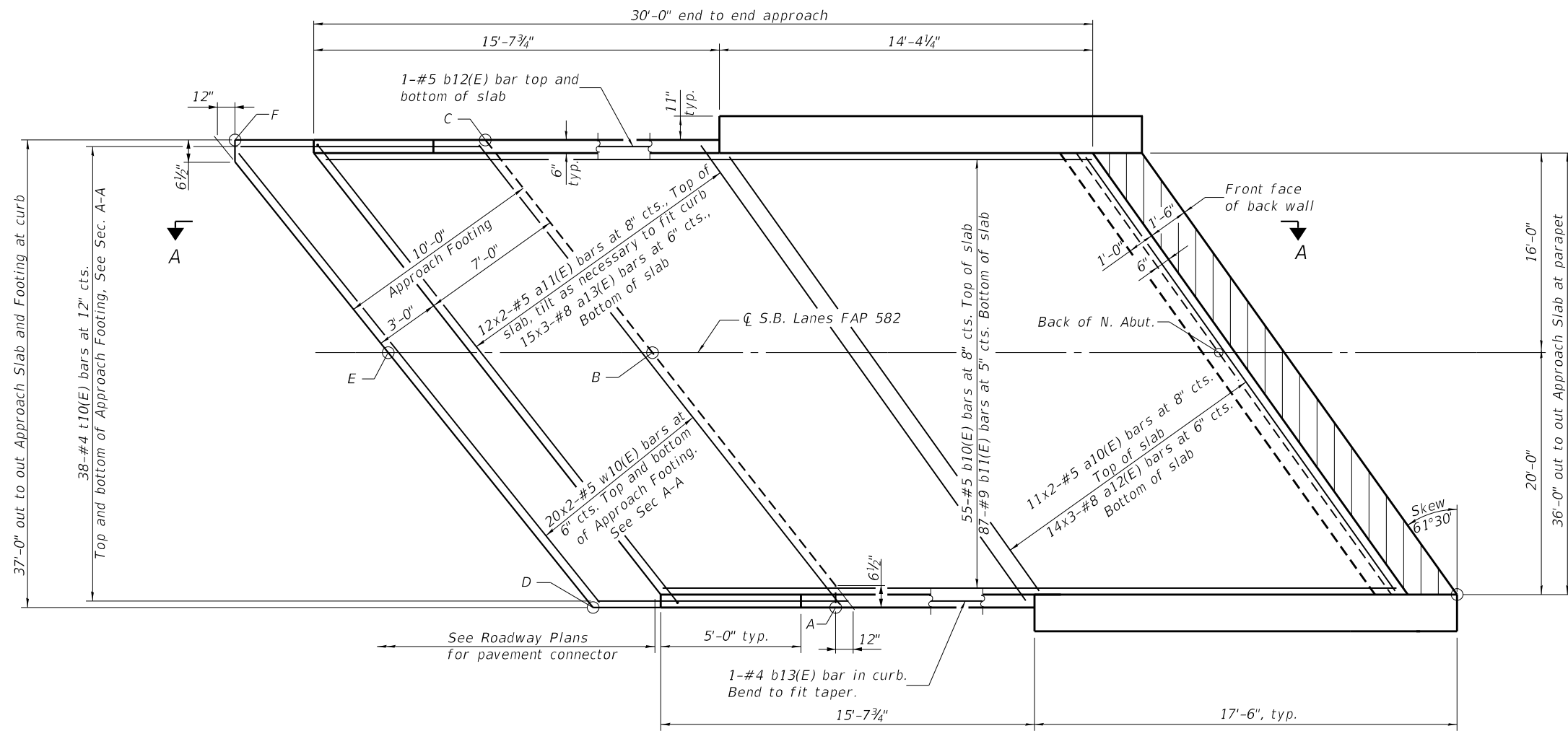
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	DATE - 12/08/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 060-0347

SCALE: SHEET 13 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	53
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

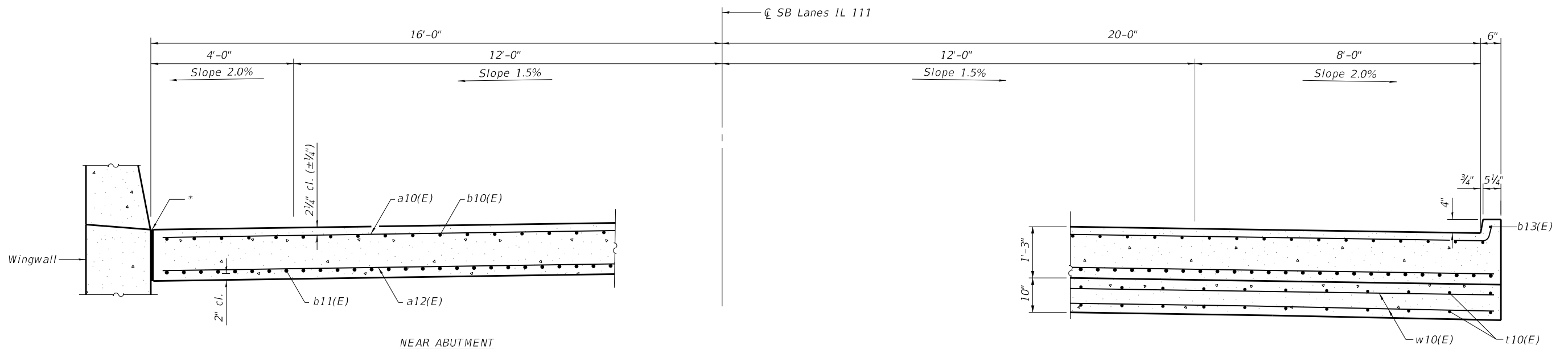
Point/Location	Approach	
	Top	Bottom
A	416.18	415.35
B	416.09	415.26
C	415.39	414.56
D	415.95	415.12
E	415.80	414.97
F	415.09	414.26

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

MINIMUM BAR LAP (APPROACHES)

#5 bar = 3'-4"
#8 bar = 5'-4"

PLAN



CROSS SECTION (Looking South)

AT APPROACH FOOTING

BASA-CIP-3944CS-0 (Modified) 2-1-2023

(Sheet 1 of 2)

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PLOT DATE = 12/8/2023

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DATE - 12/08/23

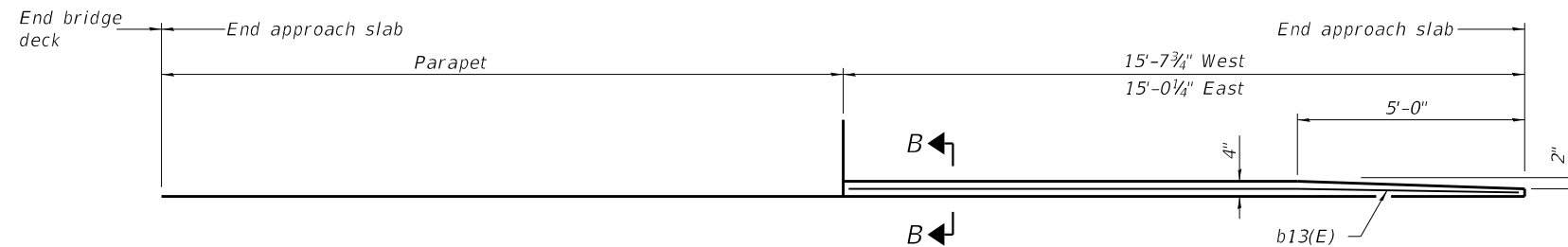
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS – NORTH ABUTMENT
STRUCTURE NO. 060-0347

SCALE: SHEET 14 OF 41 SHEETS STA. TO STA.

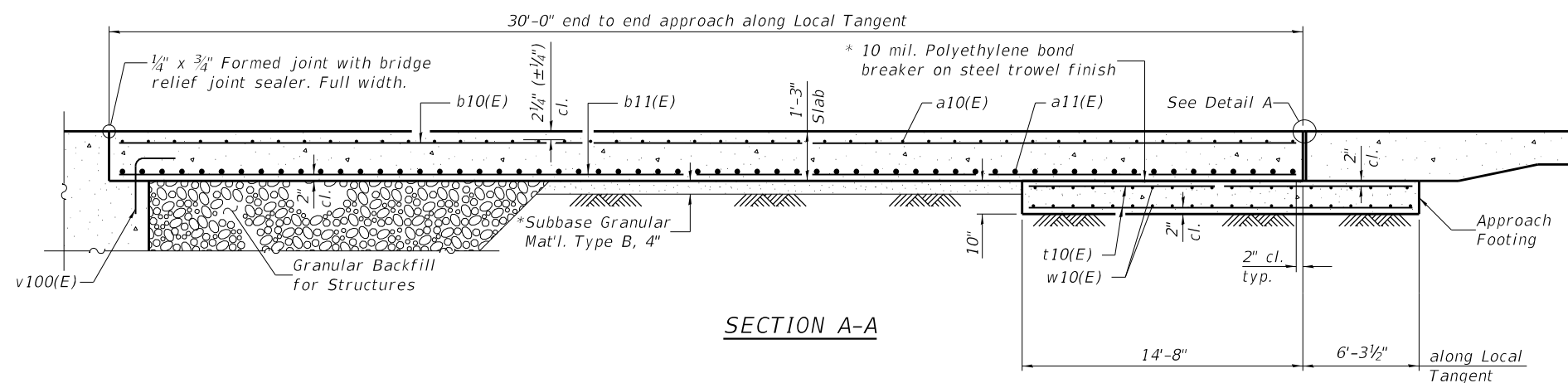
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	54
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



INSIDE ELEVATION OF PARAPET AND CURB

Notes:

- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 41.
- See sheet 22 of 41 for hatched block details.

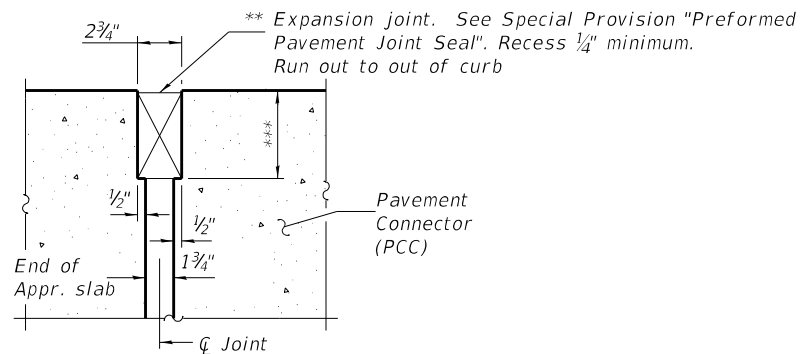


SECTION A-A



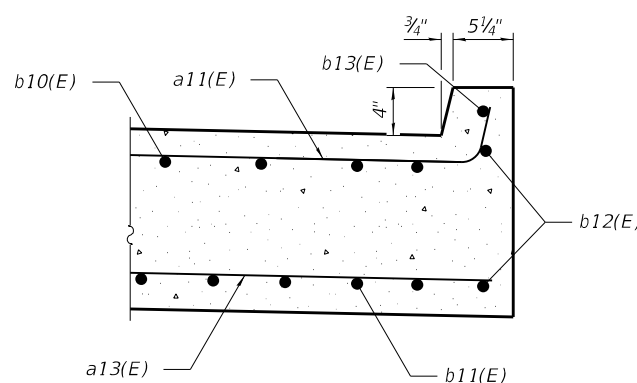
SOUTH APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	22	#5	39'-3"	—
a11(E)	24	#5	40'-0"	—
a12(E)	42	#8	28'-7"	—
a13(E)	45	#8	29'-6"	—
b10(E)	55	#5	29'-8"	—
b11(E)	87	#9	29'-8"	—
b12(E)	4	#5	15'-4"	—
b13(E)	2	#4	15'-4"	—
t10(E)	76	#4	9'-8"	—
w10(E)	40	#5	40'-6"	—
			Cu Yd	52.0
Concrete Superstructure (Approach Slab)			Cu Yd	24.2
Concrete Structures			Pound	18,190
Reinforcement Bars, Epoxy Coated			Sq Yd	141
Protective Coat			Sq Yd	120
Bridge Deck Grooving				



DETAIL A

(Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)



SECTION B-B

** Cost included with Concrete Superstructure (Approach Slab).

*** Per manufacturer recommendations

(Sheet 2 of 2)

BASA-CIP-3944CS-0 2-1-2023

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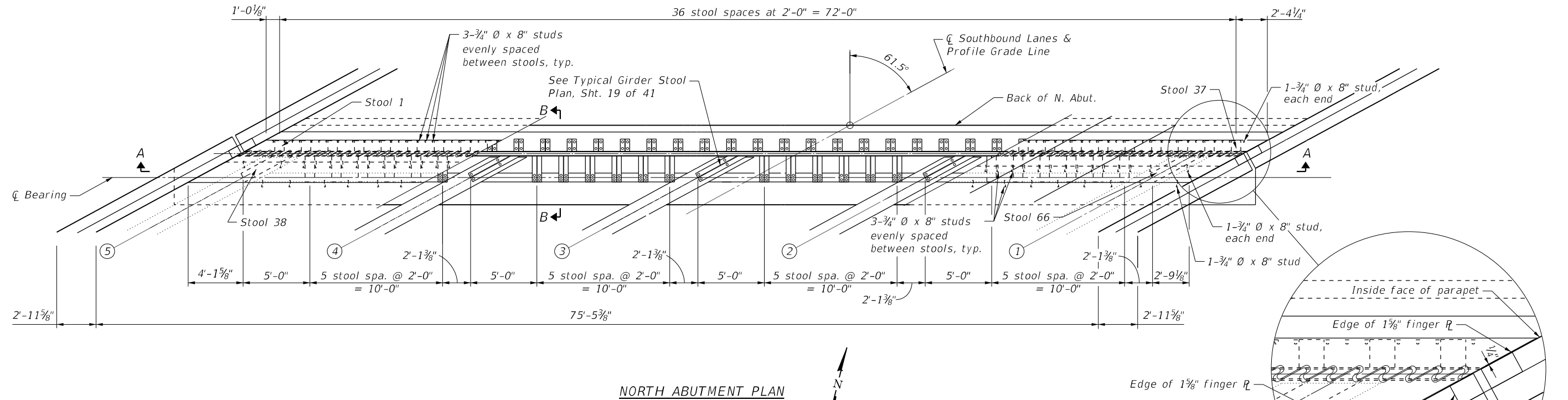
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

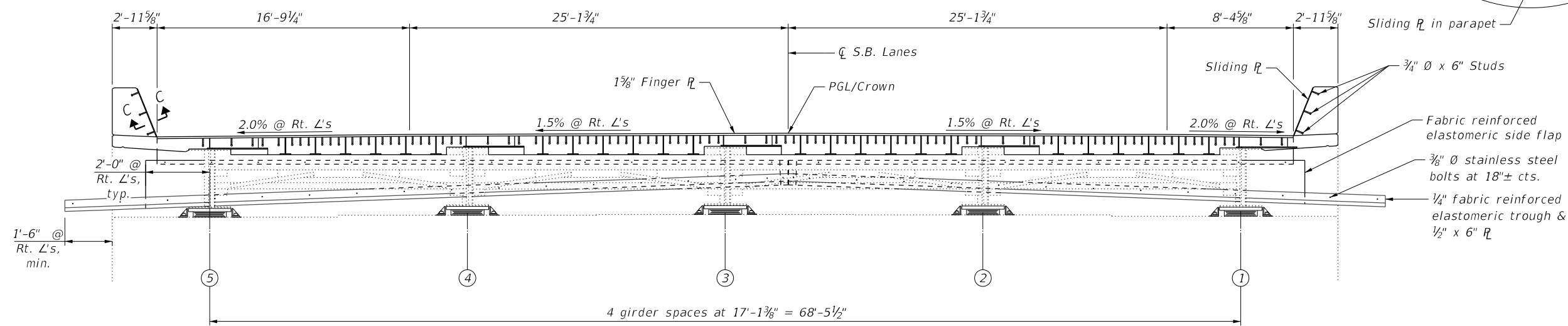
BRIDGE APPROACH SLAB DETAILS – SOUTH ABUTMENT
STRUCTURE NO. 060-0347

SCALE: SHEET 17 OF 41 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	57
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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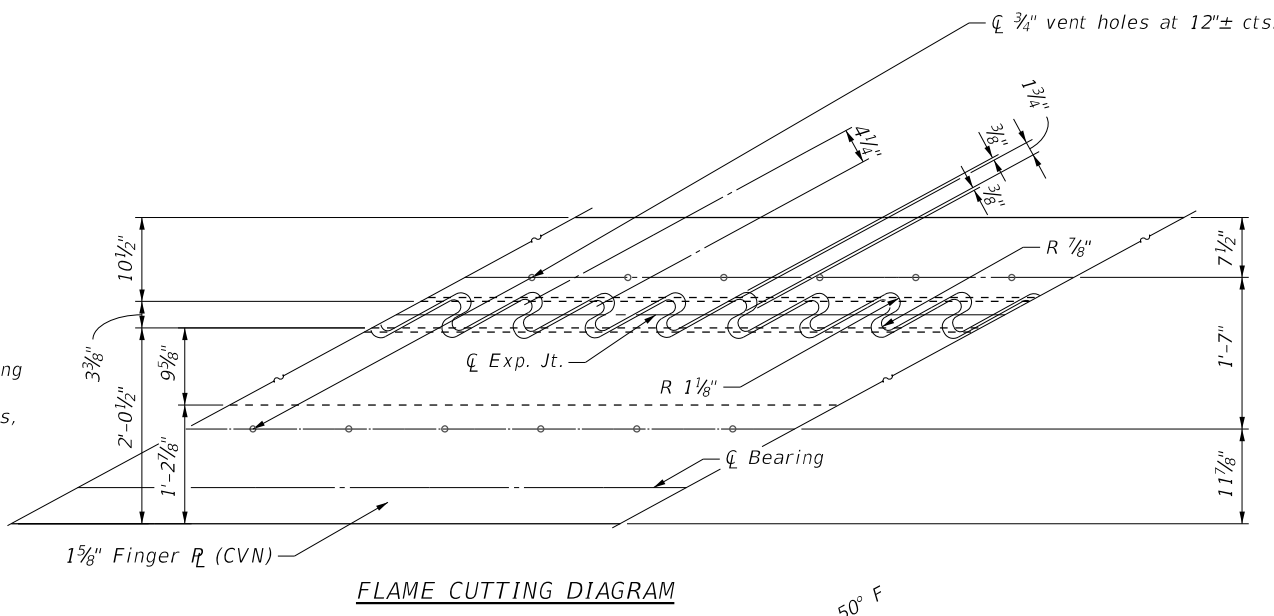
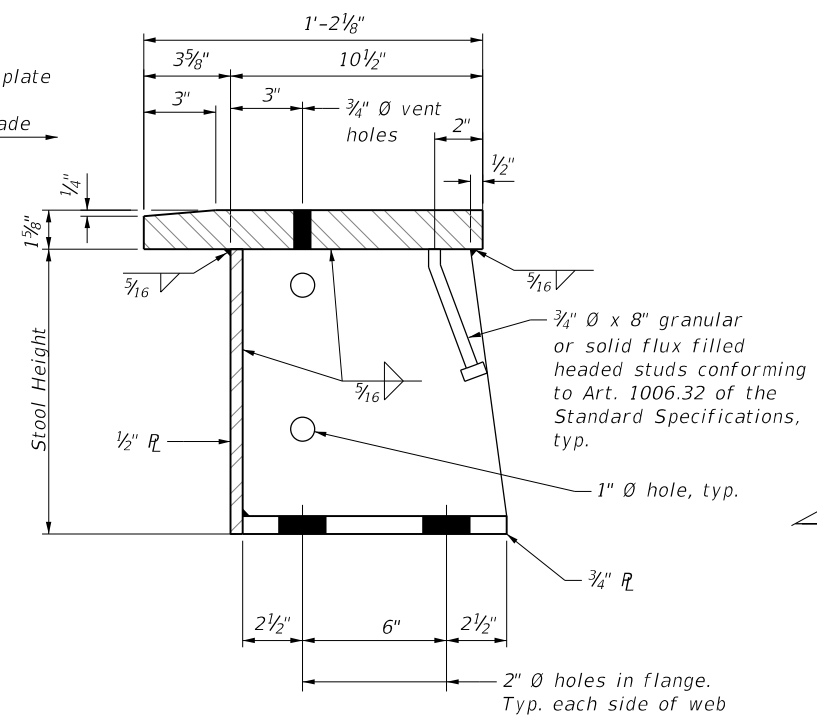
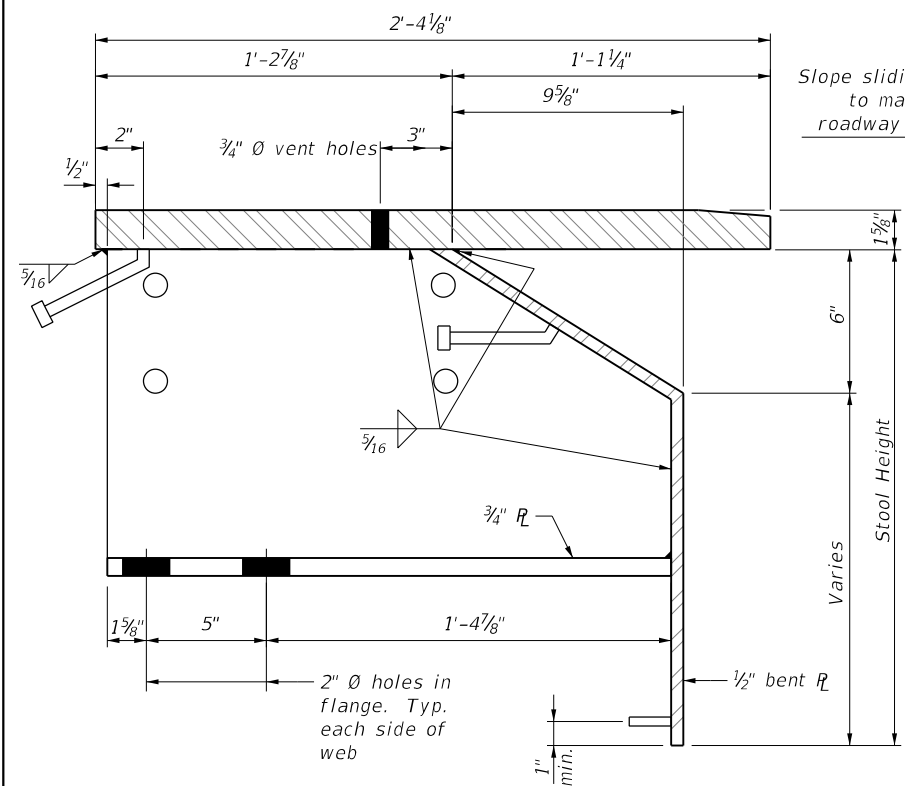
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

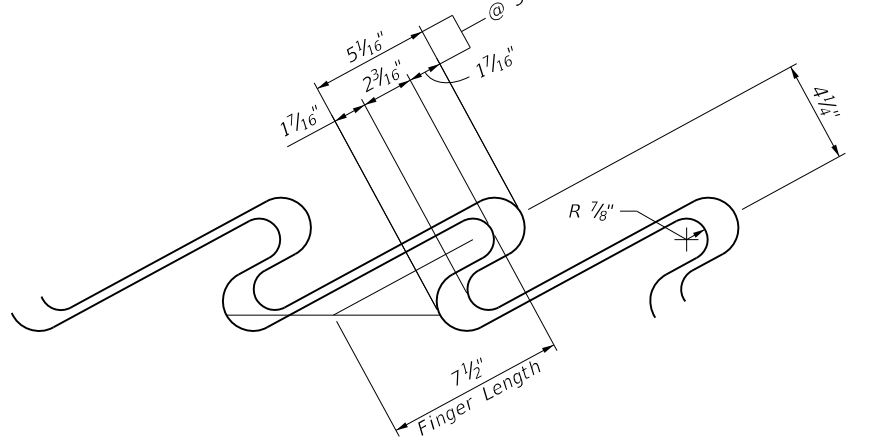
FINGER PLATE EXPANSION JOINT DETAILS
 STRUCTURE NO. 060-0347

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				



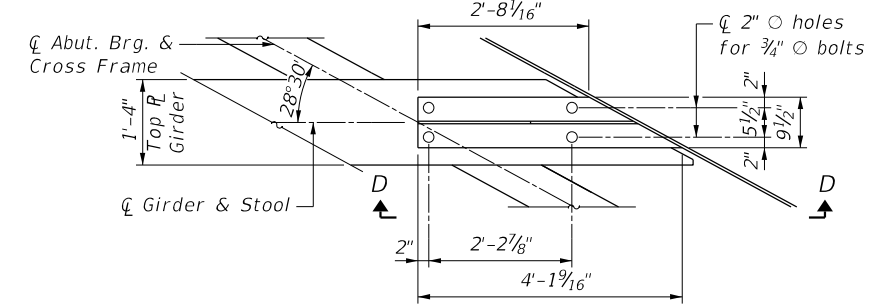
FLAME CUTTING DIAGRAM



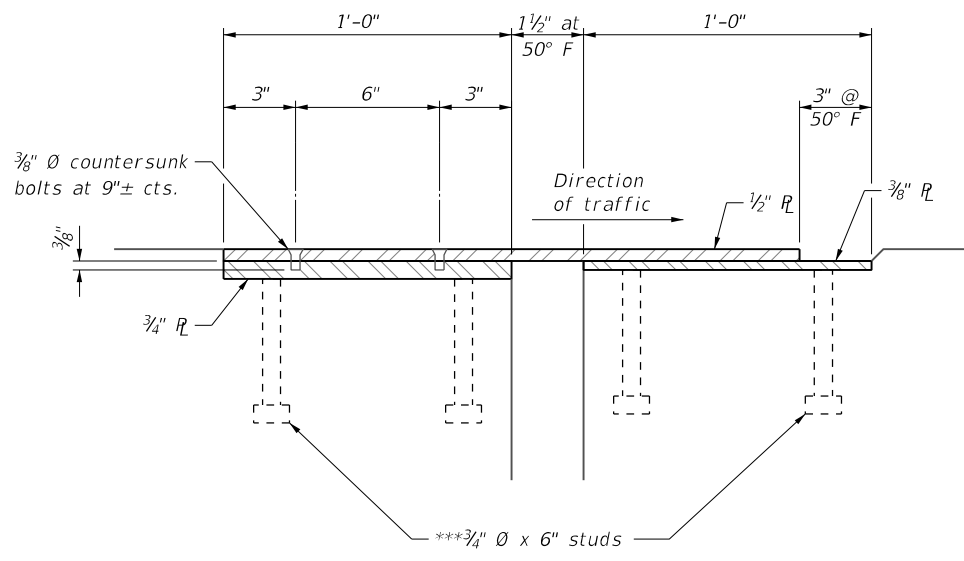
JOINT OPENING AND GEOMETRY DETAIL

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, 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.

STOOL DETAILS
 Horizontal dimensions are perpendicular to the joint.

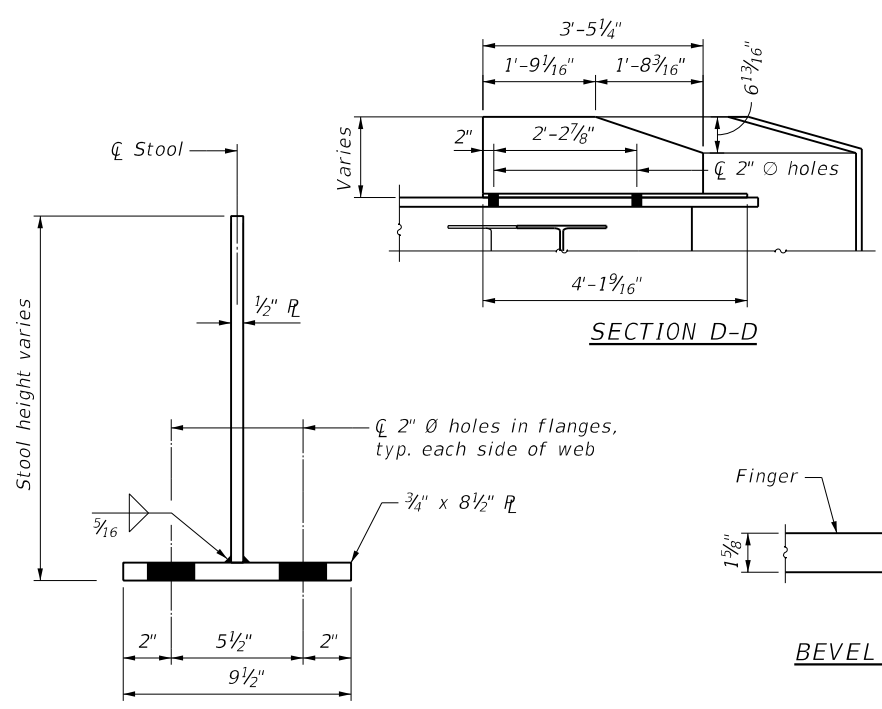


TYPICAL GIRDER STOOL PLAN

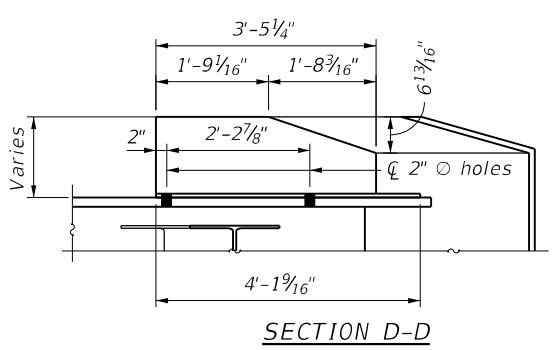


SECTION C-C

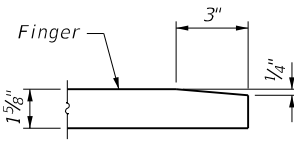
***Granular or solid flux filled headed studs conforming to Art. 1006.32 of the Standard Specifications.



SECTION THRU STOOL



SECTION D-D



BEVEL DETAIL

NORTH ABUTMENT-BILL OF MATERIAL

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

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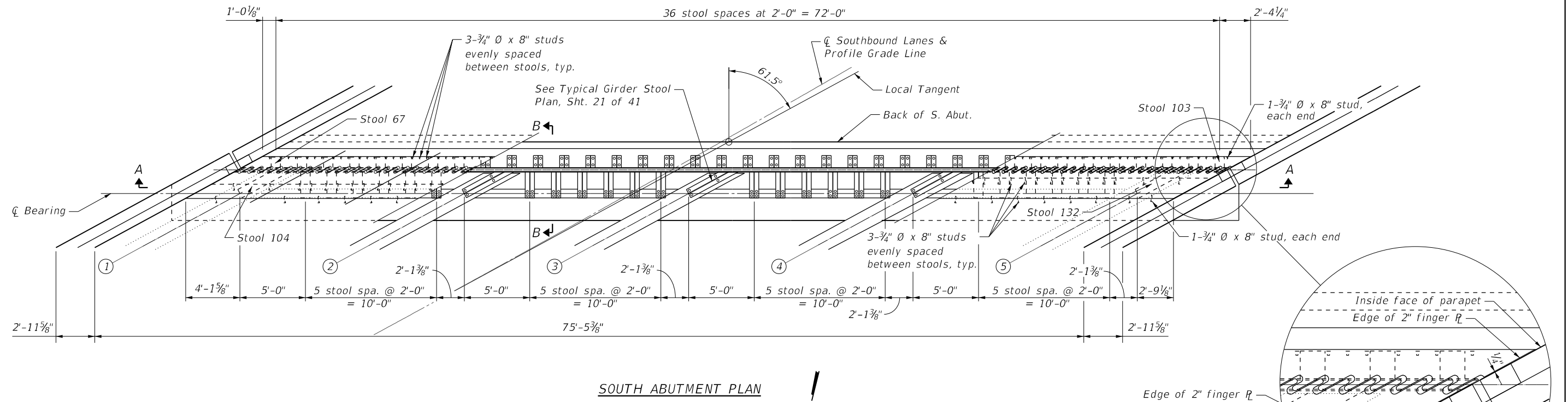
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

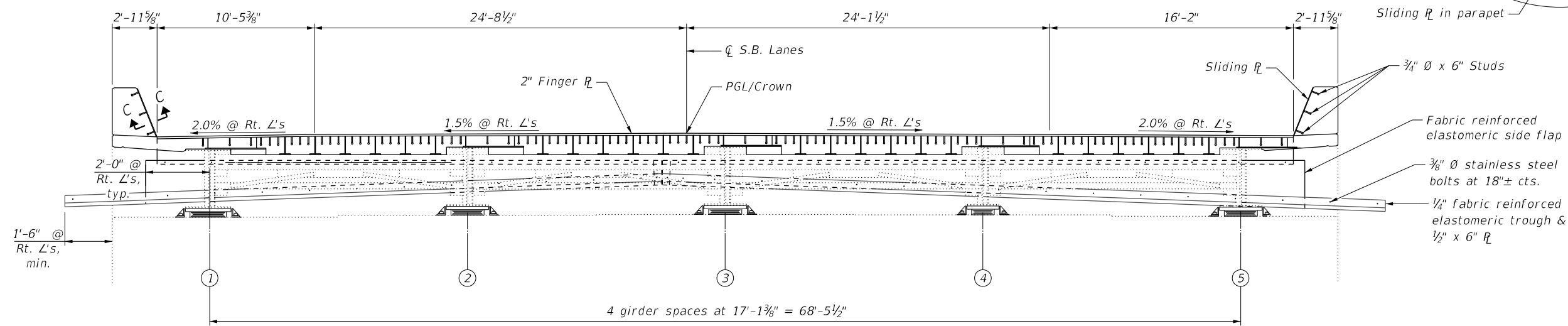
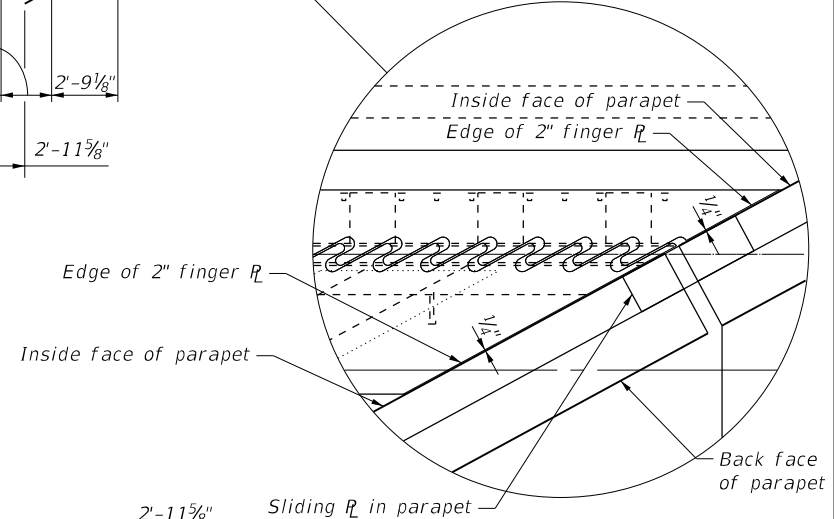
FINGER PLATE EXPANSION JOINT DETAILS
 STRUCTURE NO. 060-0347

SCALE: SHEET 19 OF 41 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 59
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	



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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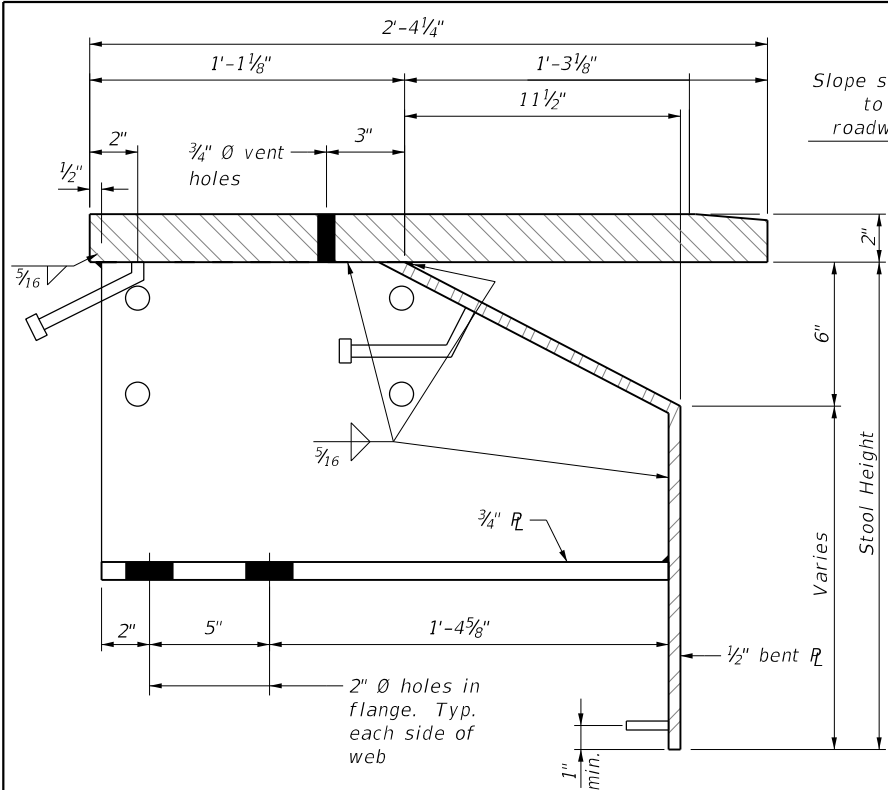
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

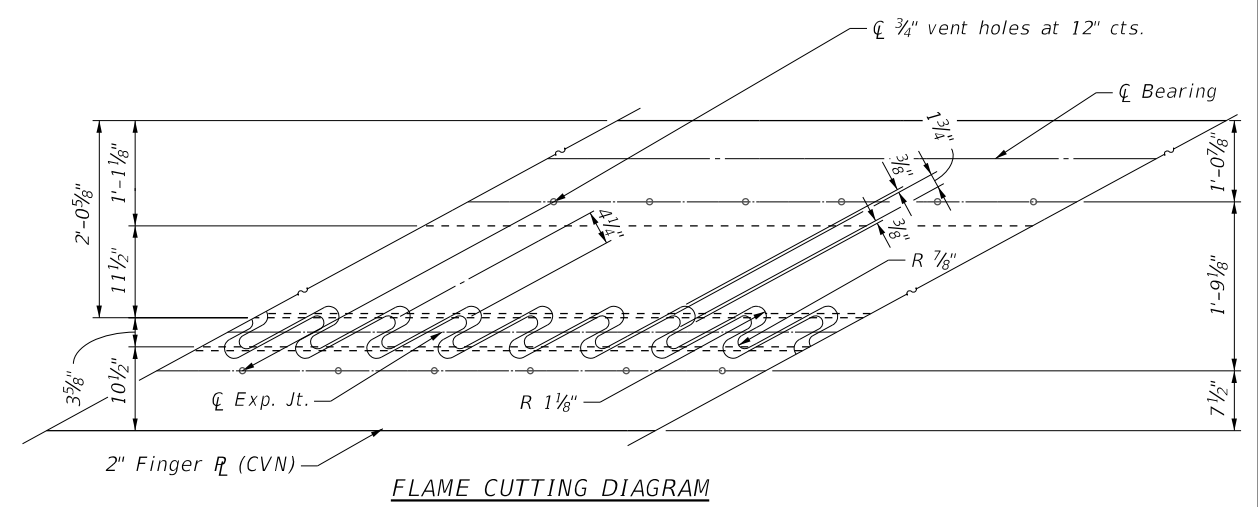
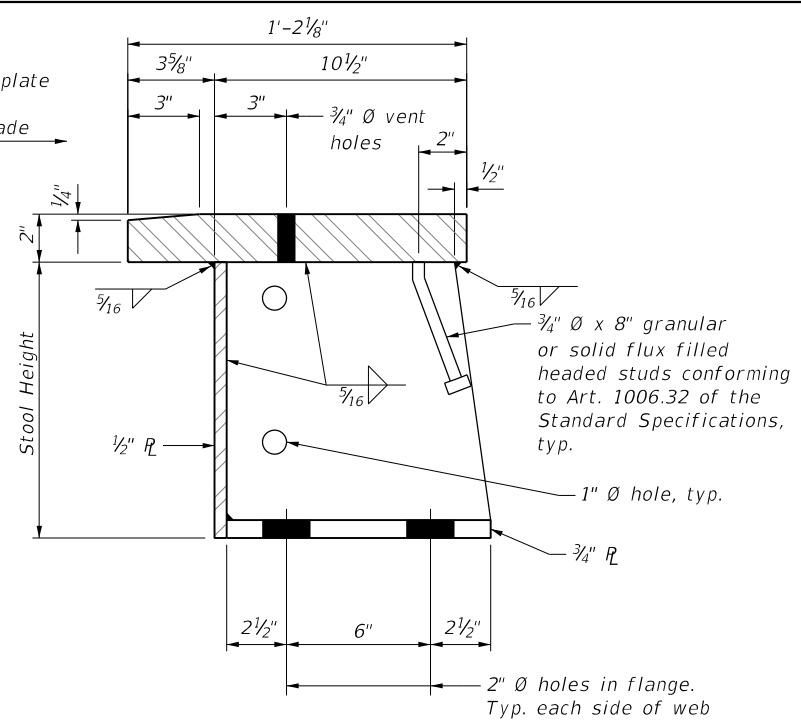
FINGER PLATE EXPANSION JOINT DETAILS
 STRUCTURE NO. 060-0347

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

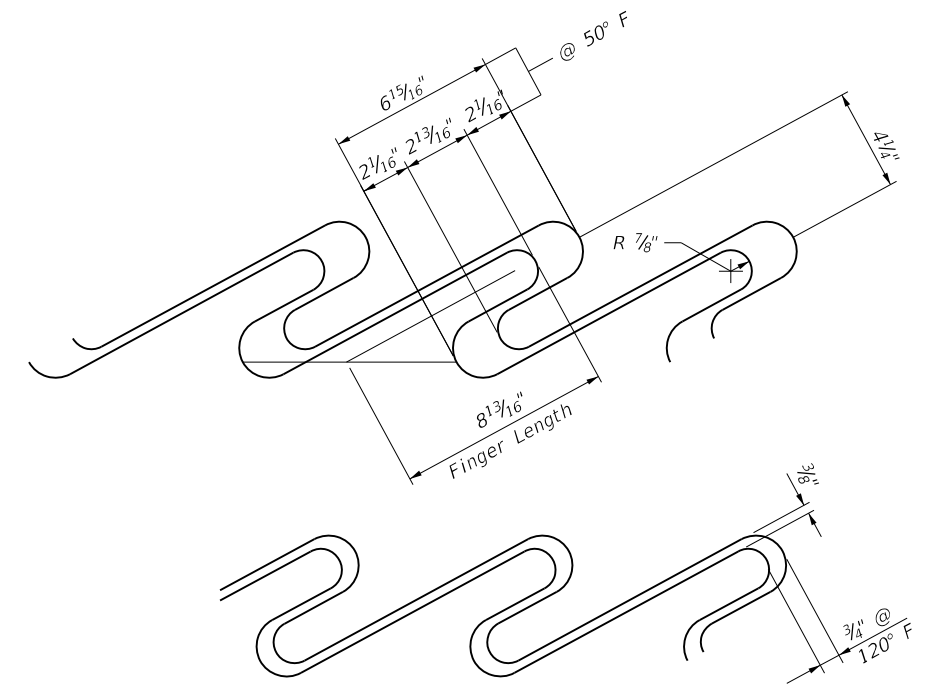
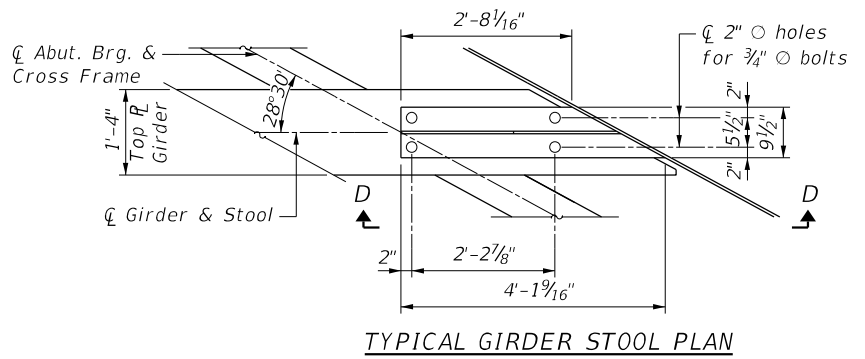
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	60
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



Slope sliding plate to match roadway grade

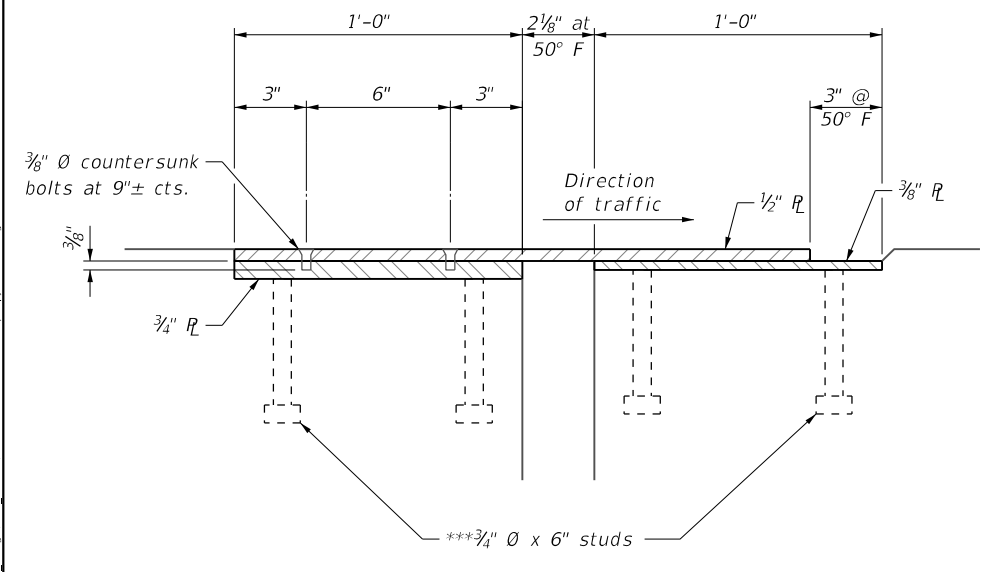


STOOL DETAILS
Horizontal dimensions are perpendicular to the joint.



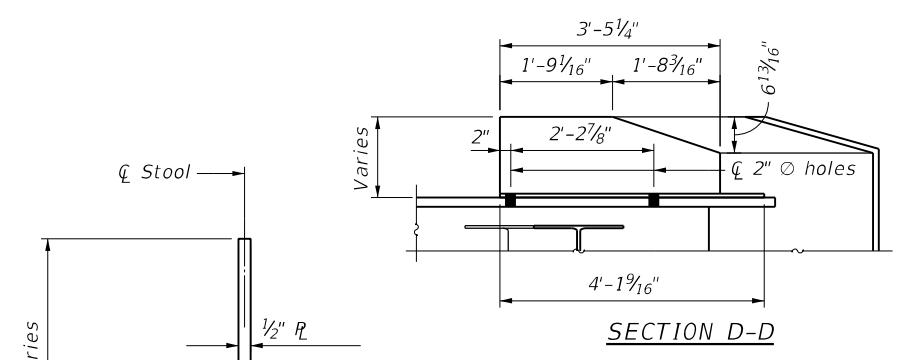
TYPICAL GIRDER STOOL PLAN

JOINT OPENING AND GEOMETRY DETAIL

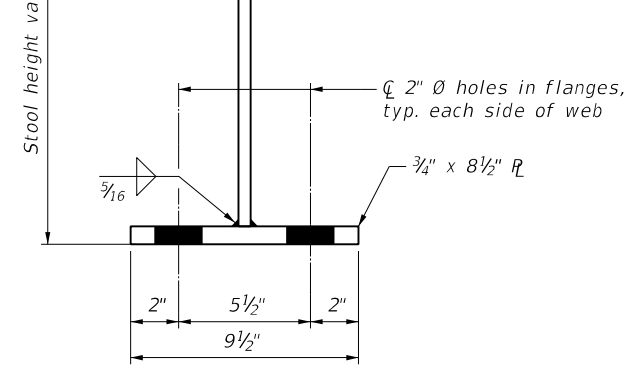


SECTION C-C

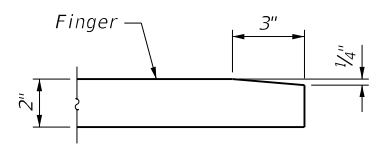
***Granular or solid flux filled headed studs conforming to Art. 1006.32 of the Standard Specifications.



SECTION D-D



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, 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.

SOUTH ABUTMENT-BILL OF MATERIAL

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

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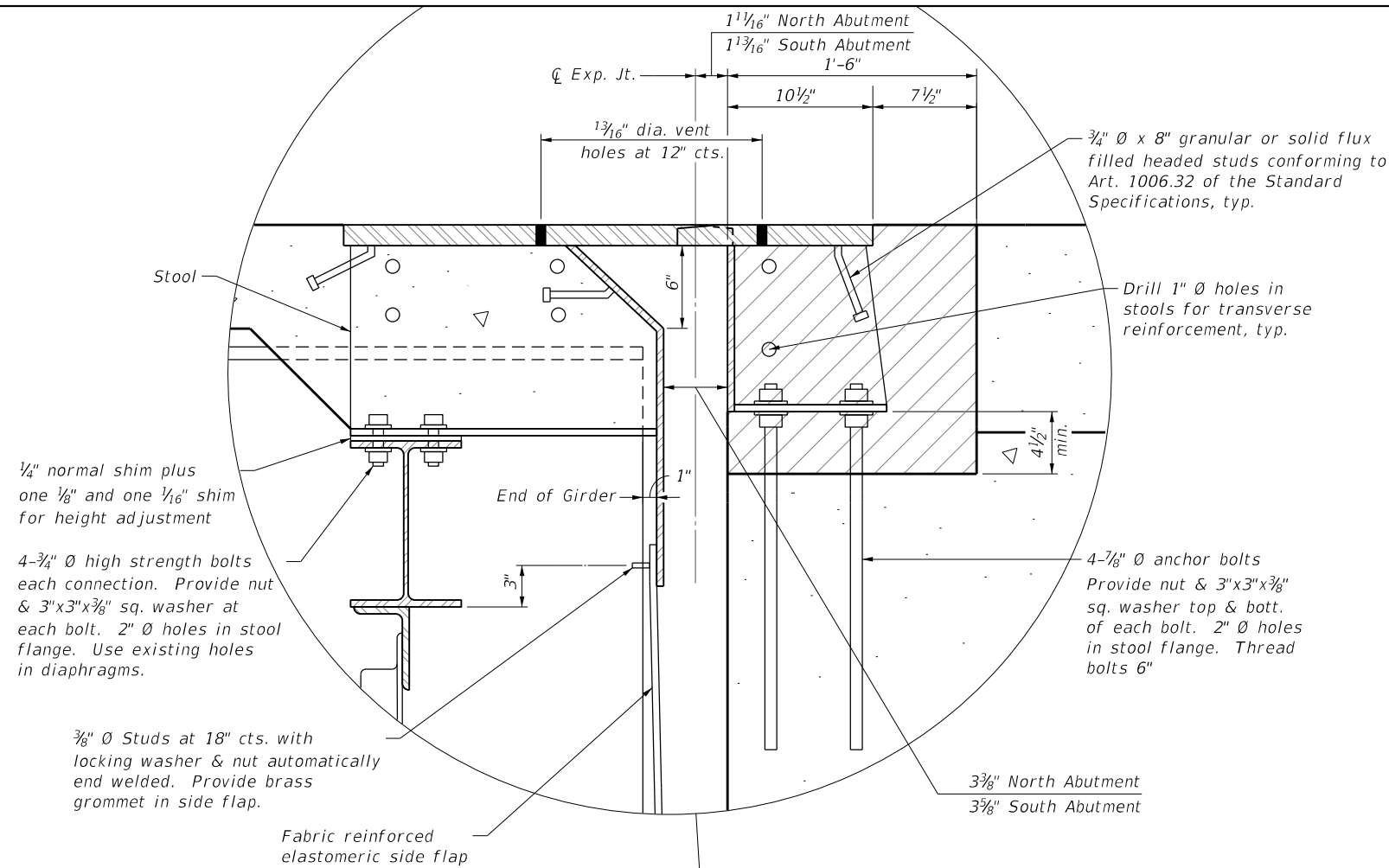
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	DATE - 12/08/23	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FINGER PLATE EXPANSION JOINT DETAILS
STRUCTURE NO. 060-0347

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	61
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



1/4" normal shim plus one 1/8" and one 1/16" shim for height adjustment

4-3/4" Ø high strength bolts each connection. Provide nut & 3"x3"x3/8" sq. washer at each bolt. 2" Ø holes in stool flange. Use existing holes in diaphragms.

3/8" Ø Studs at 18" cts. with locking washer & nut automatically end welded. Provide brass grommet in side flap.

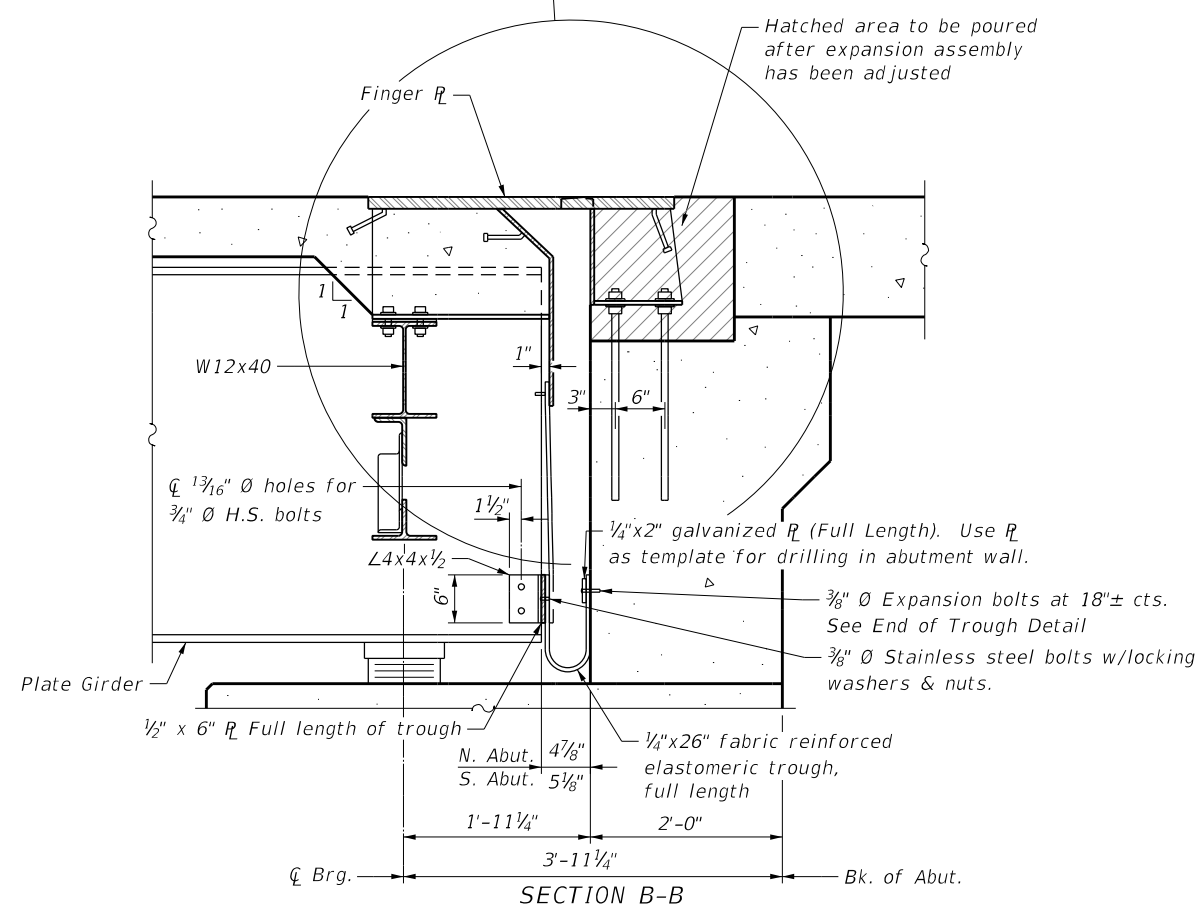
Fabric reinforced elastomeric side flap

3/4" Ø x 8" granular or solid flux filled headed studs conforming to Art. 1006.32 of the Standard Specifications, typ.

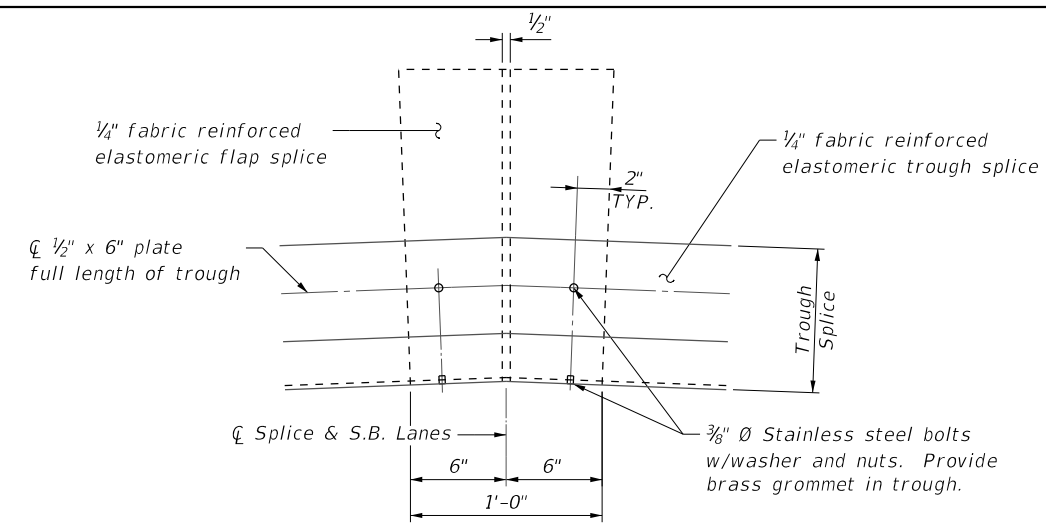
Drill 1" Ø holes in stools for transverse reinforcement, typ.

4-7/8" Ø anchor bolts Provide nut & 3"x3"x3/8" sq. washer top & bott. of each bolt. 2" Ø holes in stool flange. Thread bolts 6"

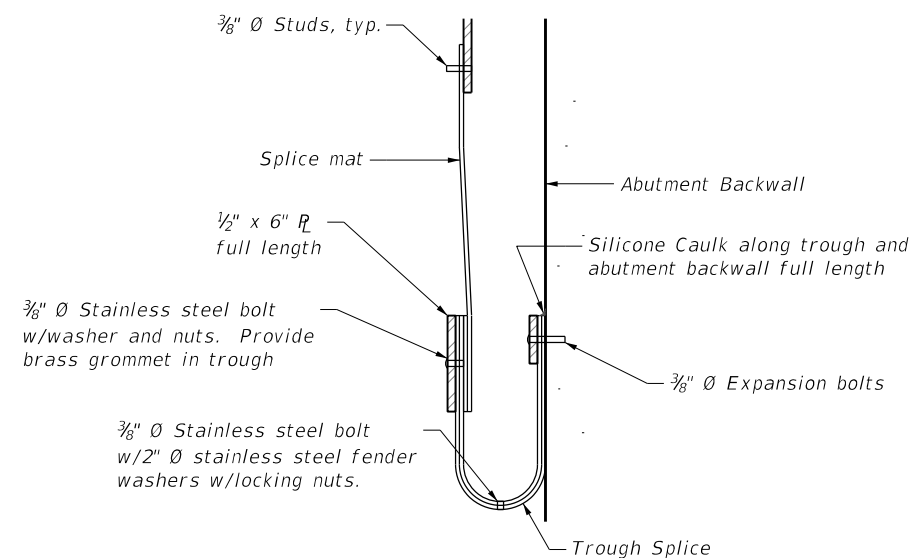
3 3/8" North Abutment
3 5/8" South Abutment



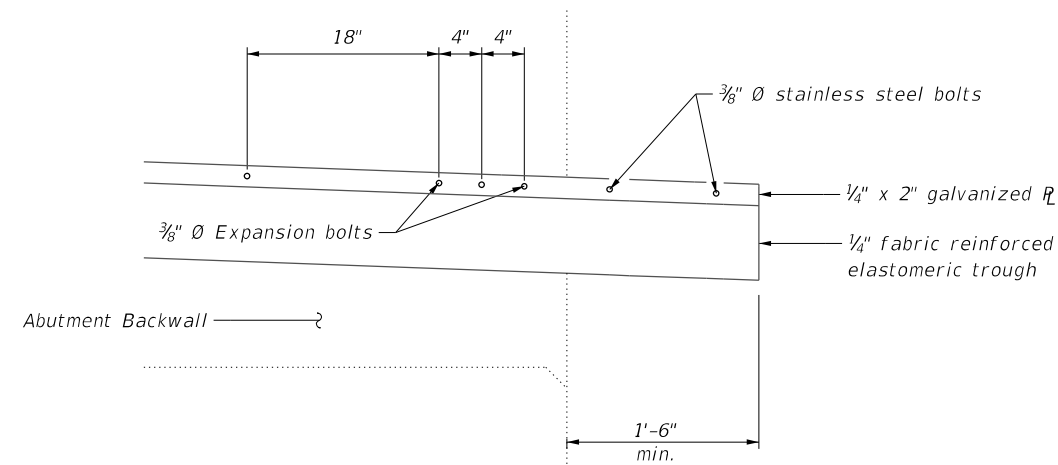
SECTION B-B



TROUGH SPLICE DETAIL



SECTION THROUGH TROUGH SPLICE



END OF TROUGH DETAIL AT BACKWALL

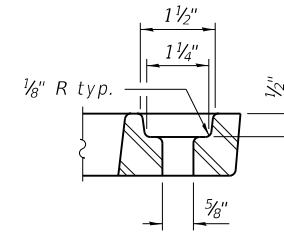
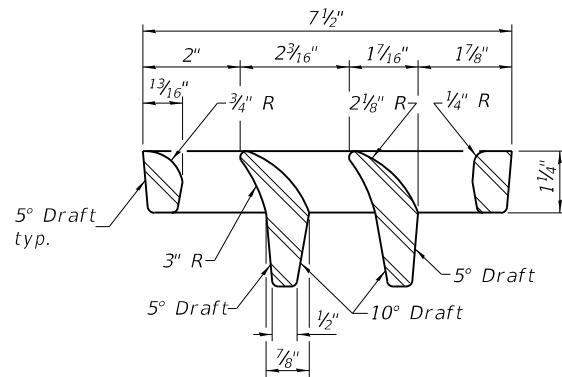
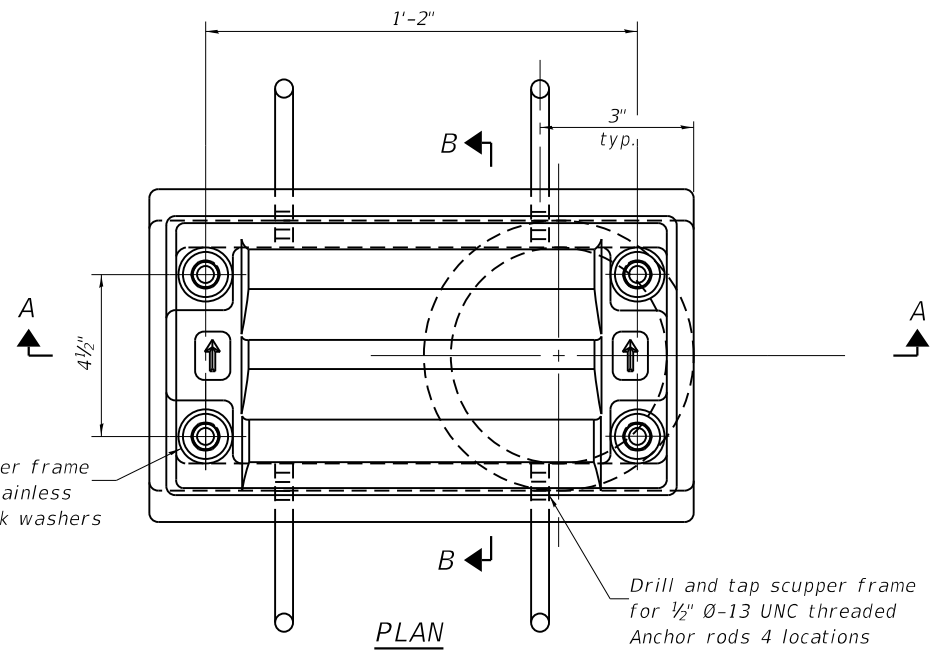
Note:
Tapered shims, in addition to the normal shims in Section B-B, shall be added under the stools as required by the Engineer to make a smooth finger joint. Cost shall be included in the cost of Finger Plate Expansion Joint.

MODEL: Defn.dwg
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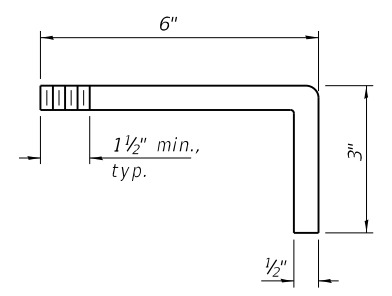
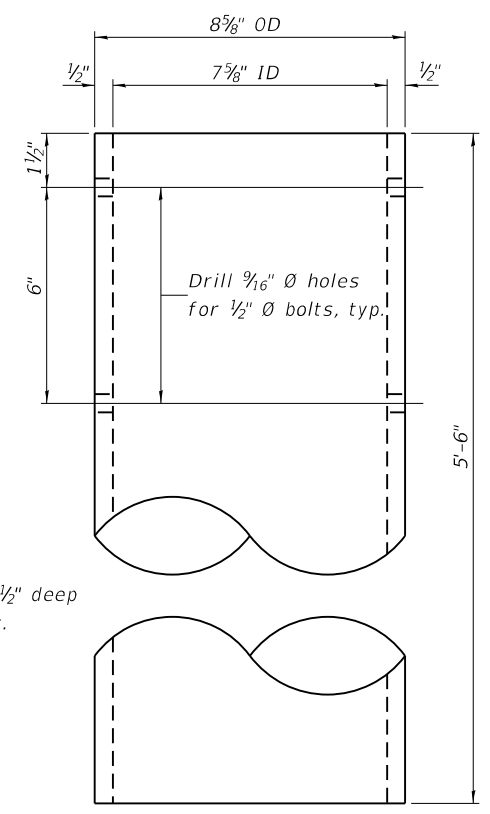
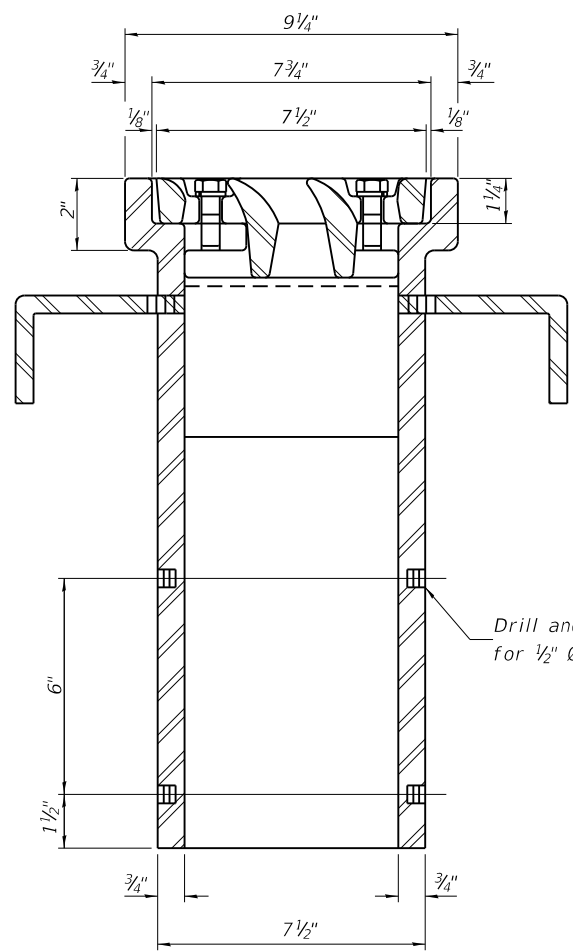
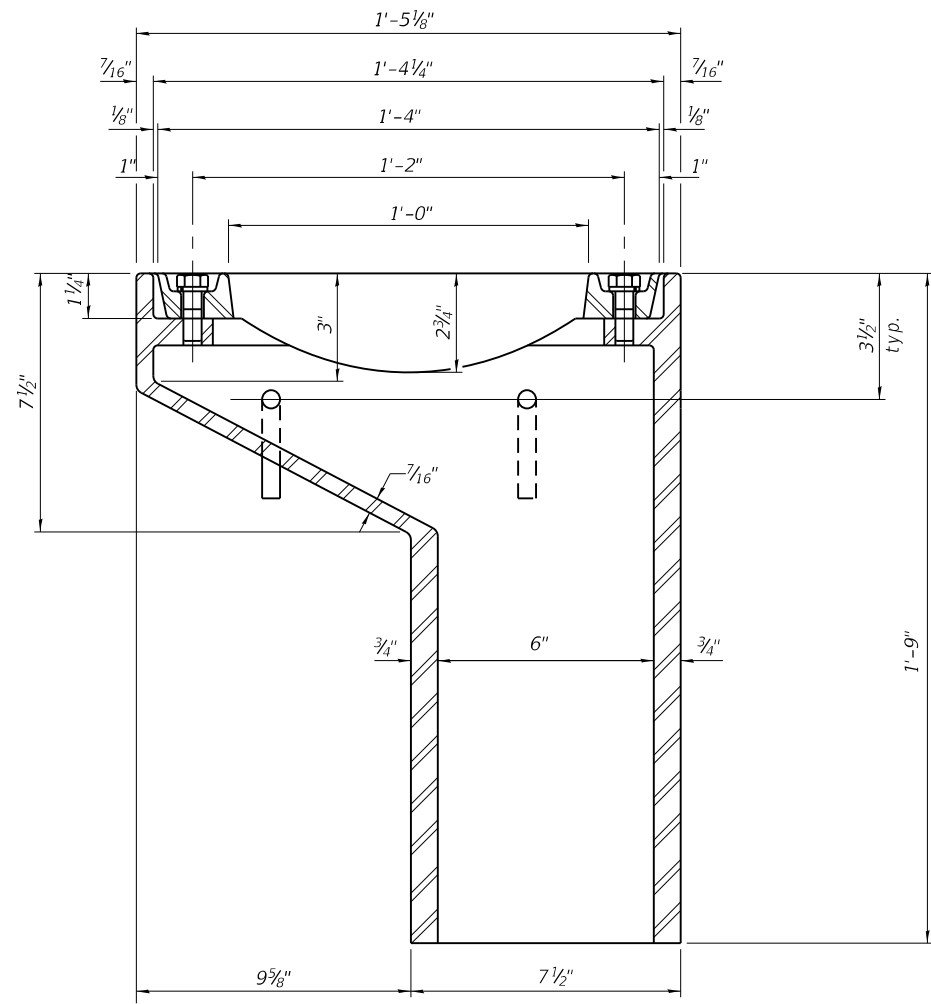
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	DATE - 12/08/23	REVISED -

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

MODEL: D:\cadd\1103248_PTB_199_03218249_059_M05_IL111_R\DrawCAD_Sheets\0600347-7649-063-scupper-23.dwg
 FILE NAME: 1103248_PTB_199_03218249_059_M05_IL111



Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet 2 of 41.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-11	Each	7

DS-11

2-1-2023



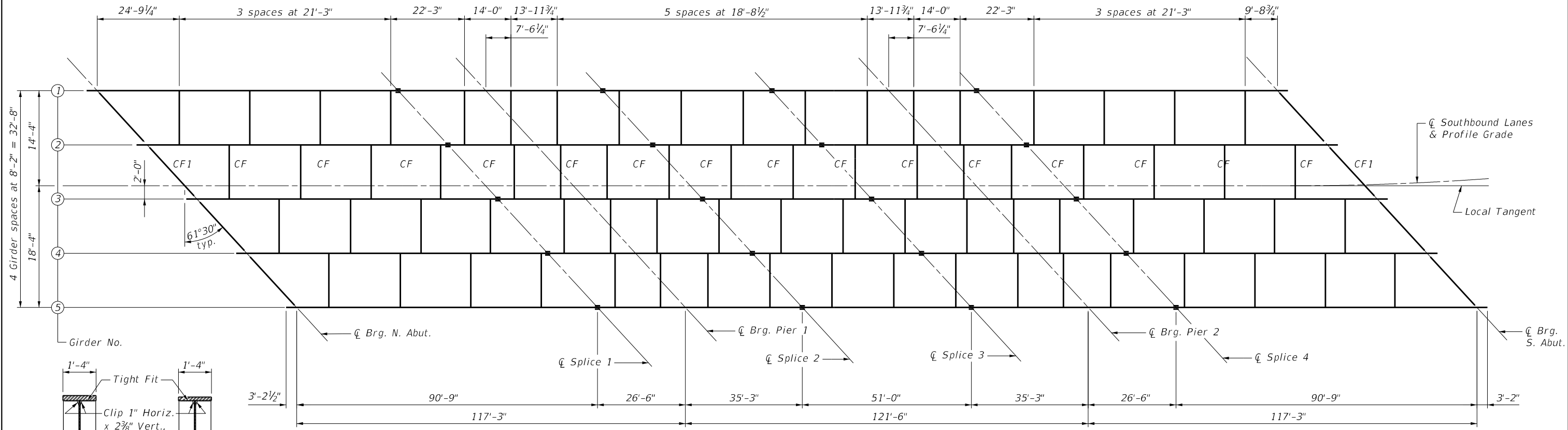
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

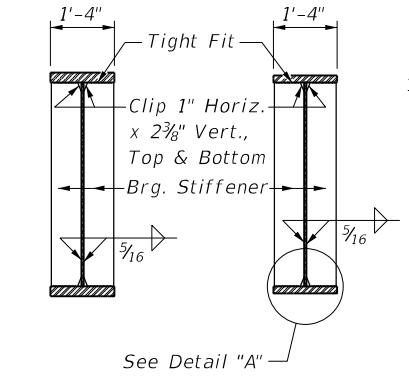
DRAINAGE SCUPPERS, DS-11
STRUCTURE NO. 060-0347

SCALE: SHEET 23 OF 41 SHEETS STA. TO STA.

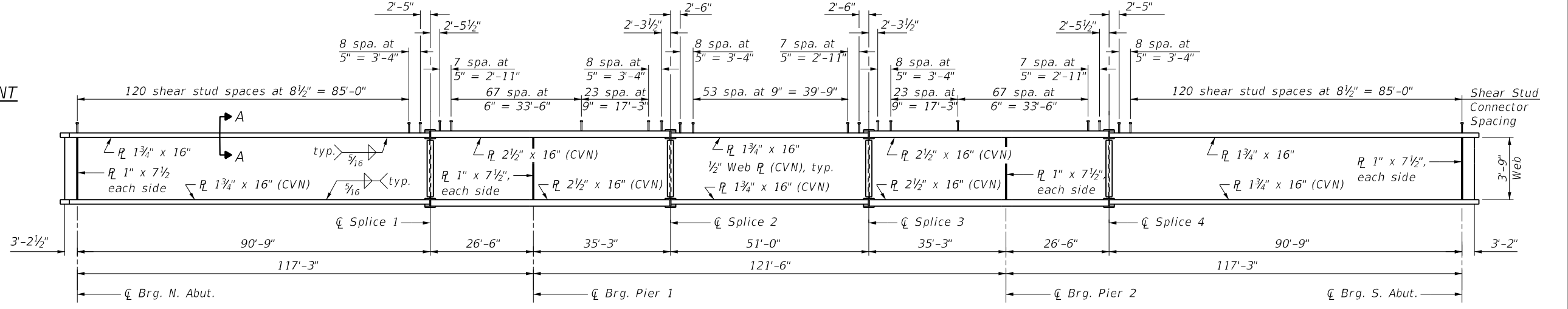
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	63
				CONTRACT NO. 76H49
ILLINOIS FED. AID PROJECT				



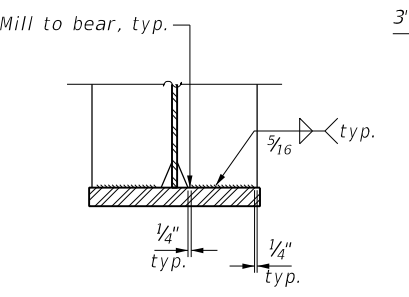
FRAMING PLAN



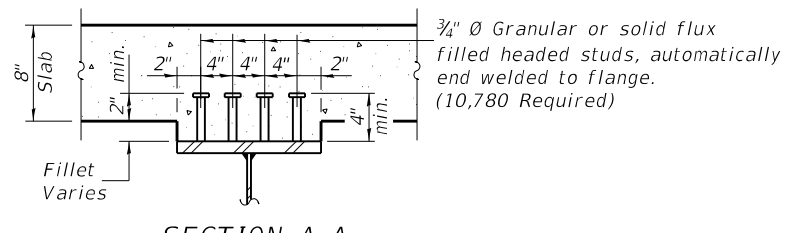
SECTION AT PIER SECTION AT ABUTMENT



GIRDER ELEVATION



DETAIL "A" (Pier shown, Abutment similar)



SECTION A-A

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

Note:
 All steel plates of the girders, including bearing stiffeners, shall be AASHTO M270, Grade 50.
 All cross frames between girders shall be installed with erection pins and bolts in accordance with the erection plan approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor bolts.

MODEL: Definit FILE: NAME: I113249_PTB_199_03218249_059_W05_IL111_BridgeCAD_Sheets0600347-76449-0644-Forming-2.dwg

HMG
 ENGINEERS
 IL PROF DESIGN FIRM 184.000899

USER NAME = tkrupep
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 DATE - 12/08/23

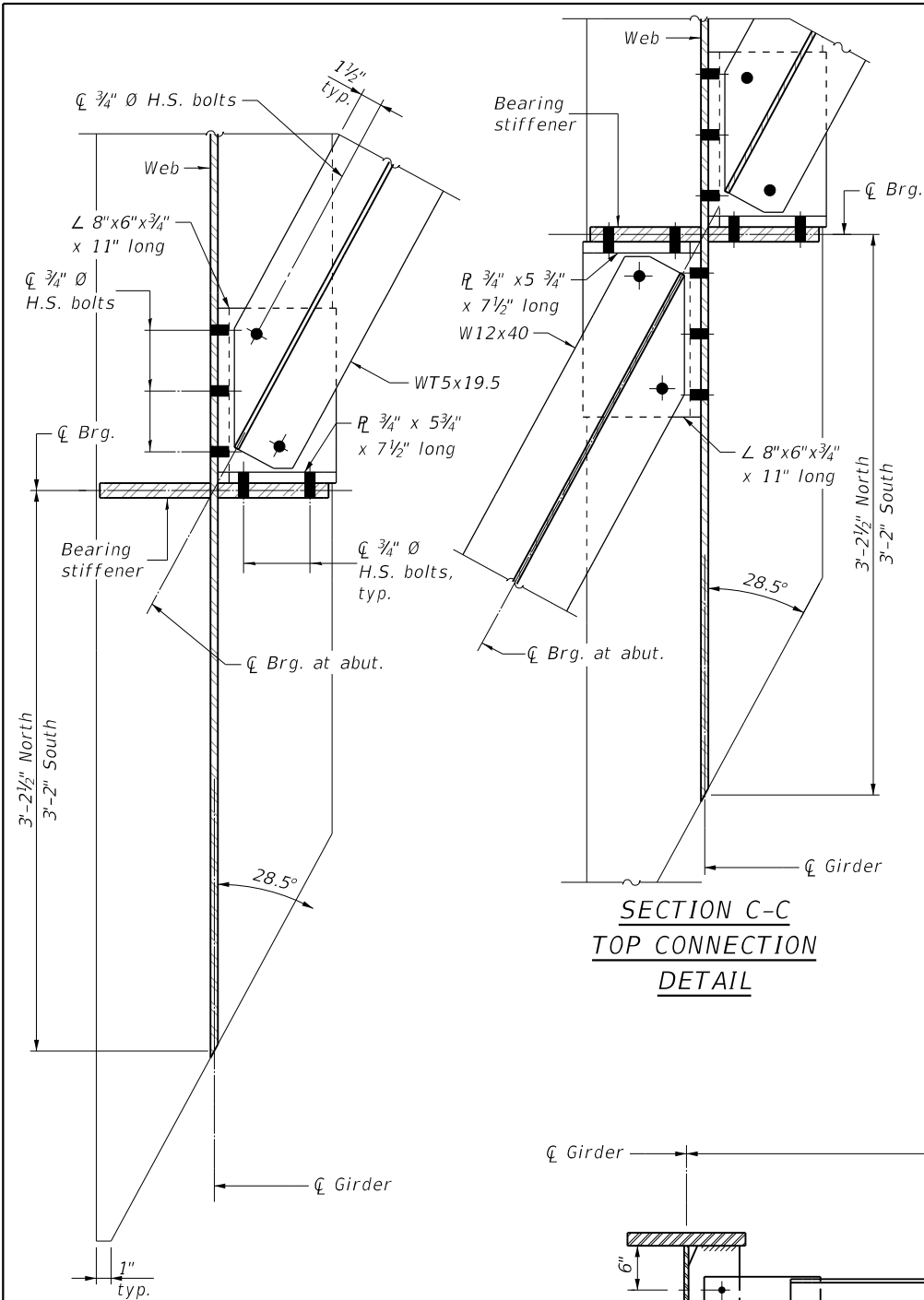
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

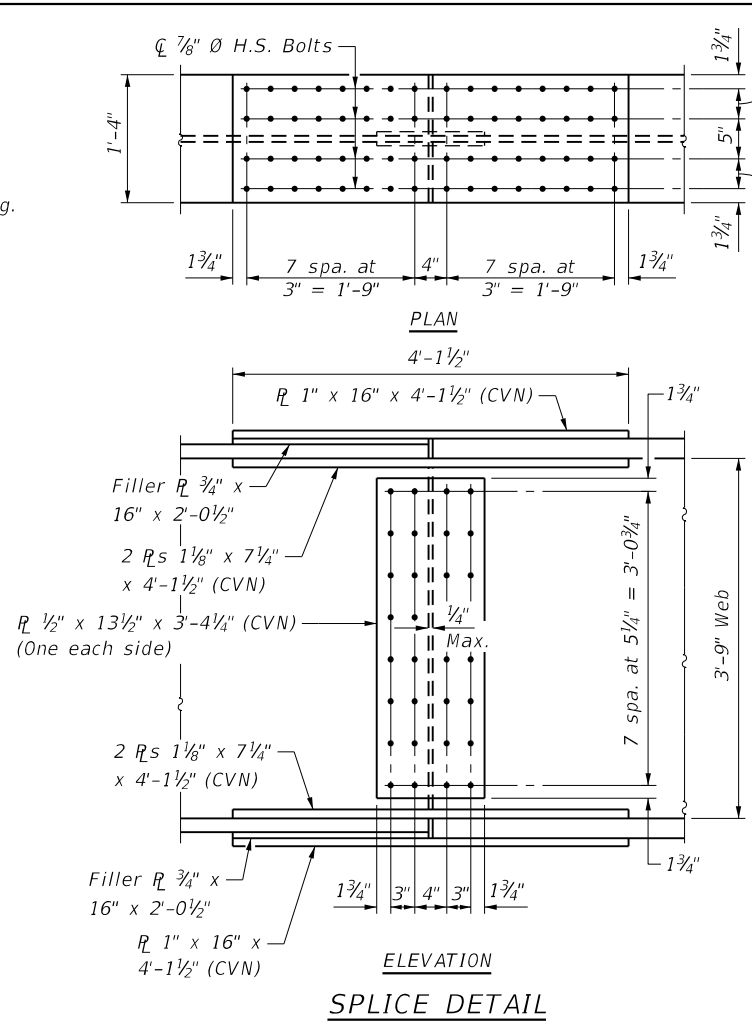
STRUCTURAL STEEL
 STRUCTURE NO. 060-0347

SCALE: SHEET 24 OF 41 SHEETS STA. TO STA.

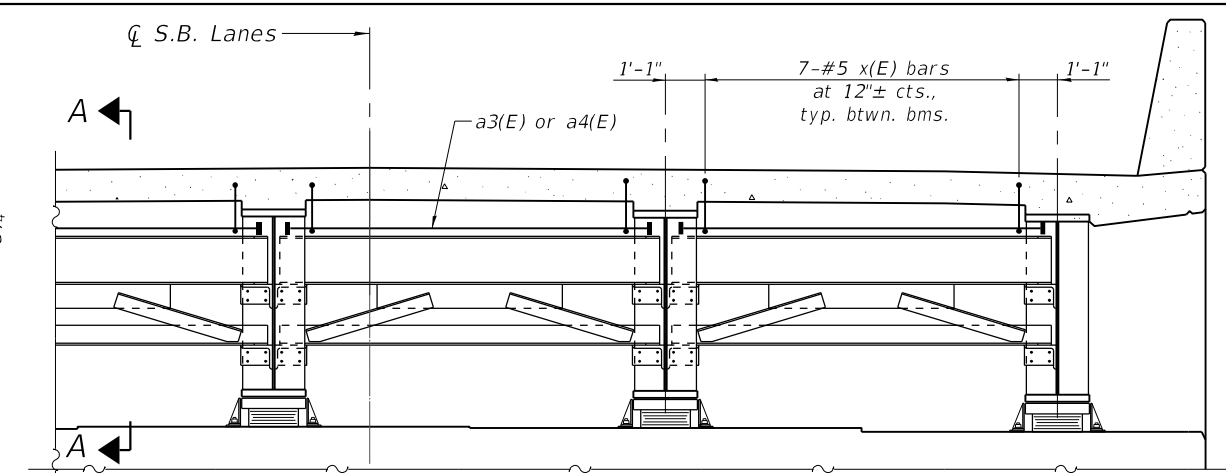
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	64
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



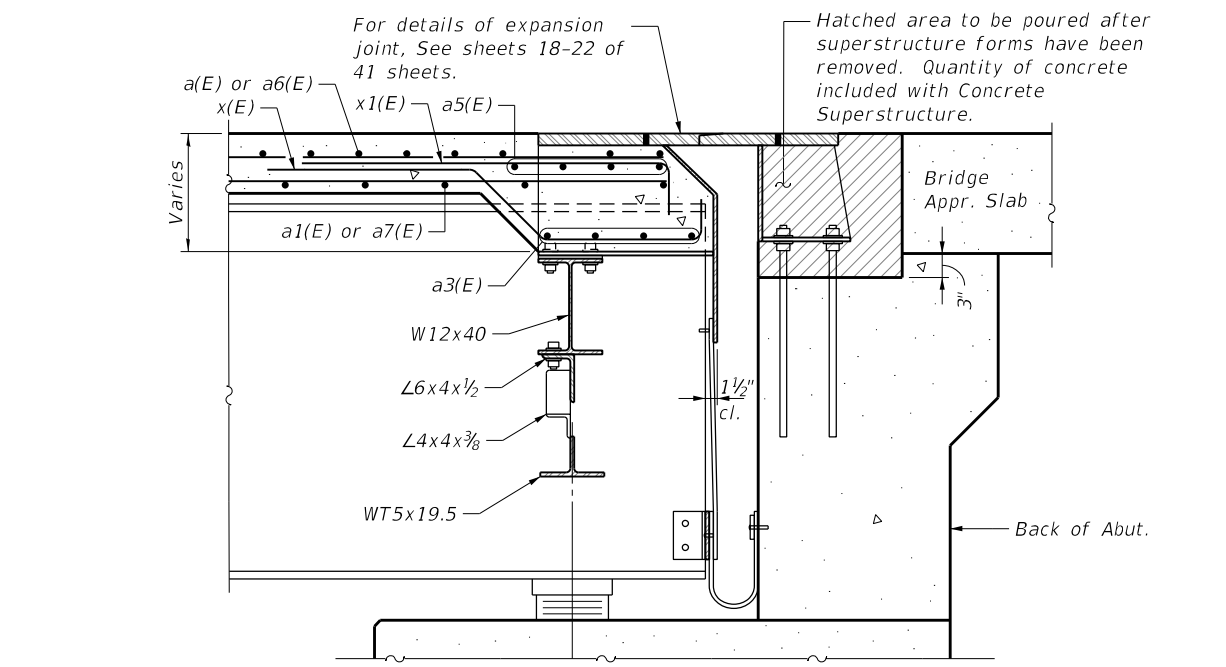
**SECTION C-C
TOP CONNECTION
DETAIL**



**ELEVATION
SPLICE DETAIL**

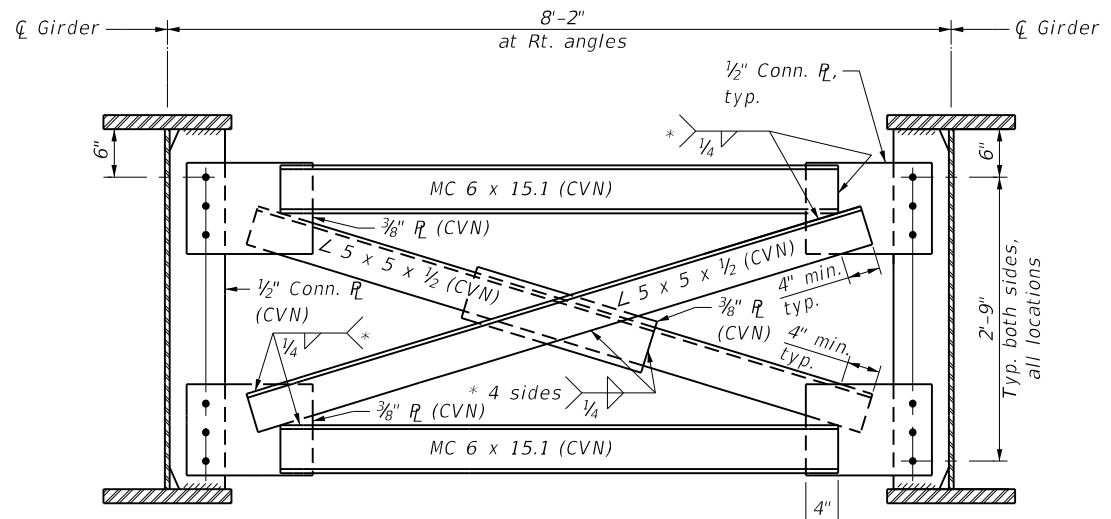


DIAPHRAGM AT ABUTMENT

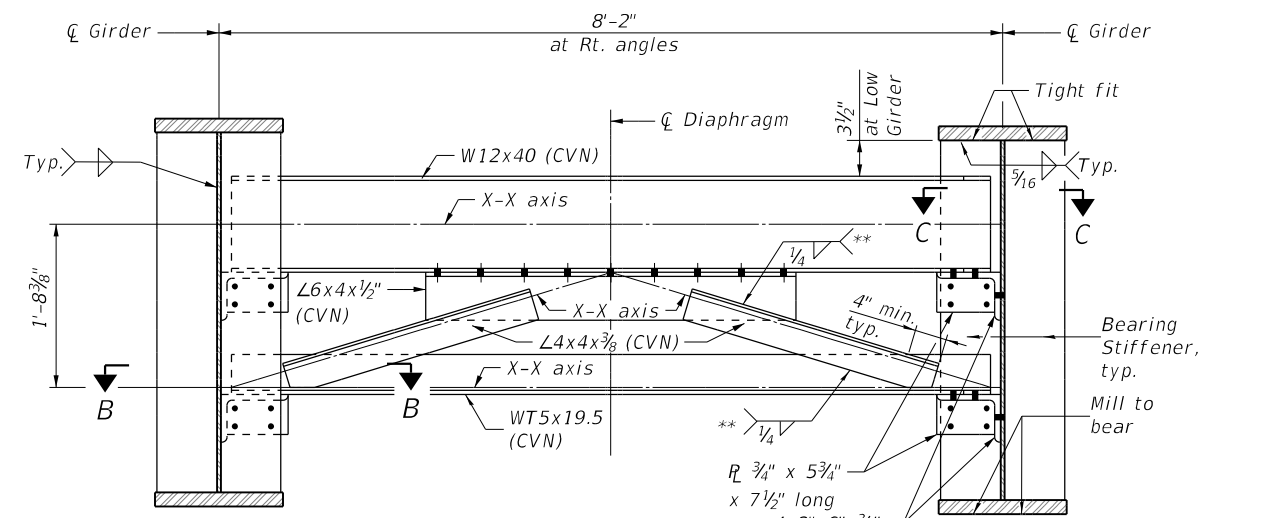


**SECTION A-A
(at Rt. L's)**

**SECTION B-B
BOTTOM CONNECTION
DETAIL**



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



**CROSS FRAME CF1
(8 required)**

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.

* Fillet weld angles along 3 sides on one face of gusset plate; however, if cross-frames are galvanized, weld all-around.

** 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.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

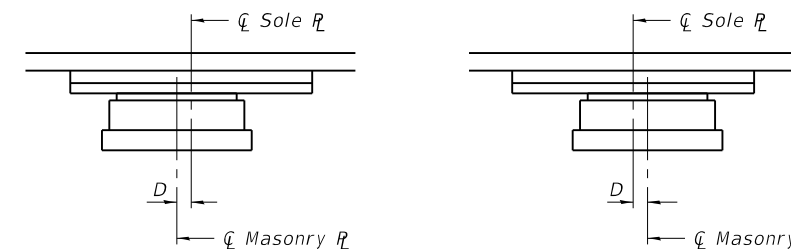
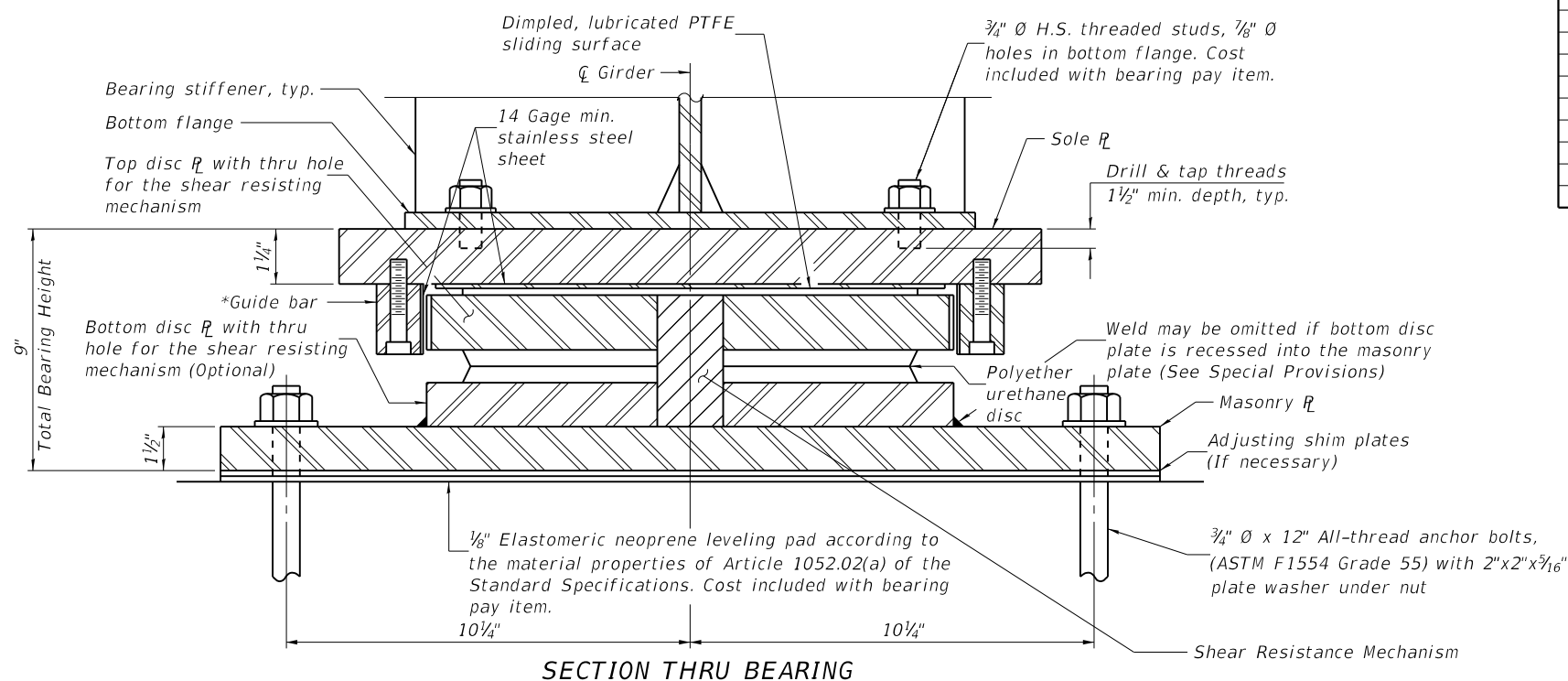
SCALE: SHEET 26 OF 41 SHEETS STA. TO STA.

F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	

DESIGN DATA

Unfactored Vertical Dead Load Reaction (R_{DC})	61.8 kips
Unfactored Vertical Wearing Surface Reaction (R_{DW})	17.1 kips
Unfactored Vertical Live Load without Impact Reaction (R_{LL})	85.5 kips
Maximum Strength or Extreme Event Lateral Reaction (H_u)	32.9 kips
Maximum Strength Limit State Rotation (Θ_u according to Article 14.4.2.2)	0.02 rad
Unfactored Design Thermal Movement from 50° F (ΔT)	0.64 in.
Service I Factored Lateral Reaction	0 kips
Service I Take Out Limit Rotation	0.02 rad
Strength I Factored Longitudinal Movement	0.77 in.
Service I Factored Vertical Reaction	164.4 kips
Strength I Factored Vertical Reaction	252.5 kips

Service I Load Factors = 1.0DC + 1.0DW + 1.0LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ



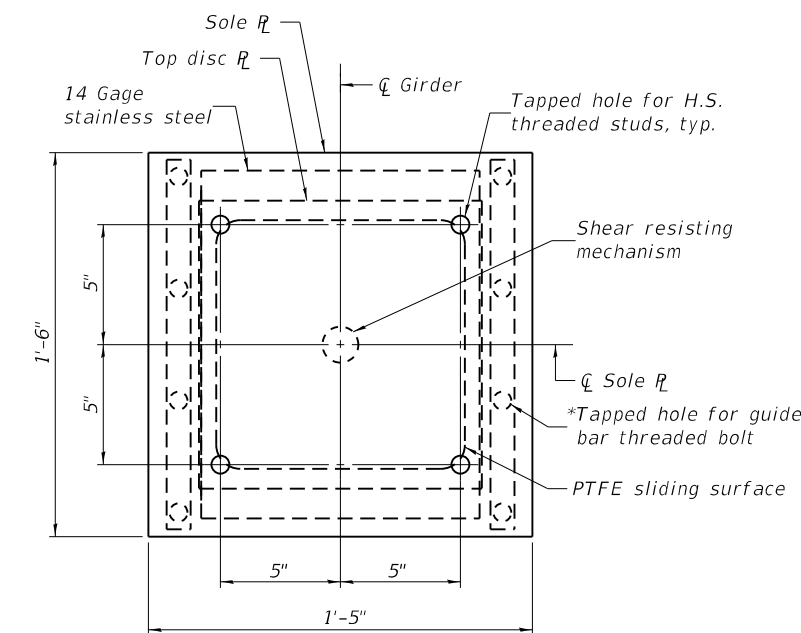
BELOW 50°F.
 (Move masonry plate away from fixed bearing)

ABOVE 50°F.
 (Move masonry plate toward fixed bearing)

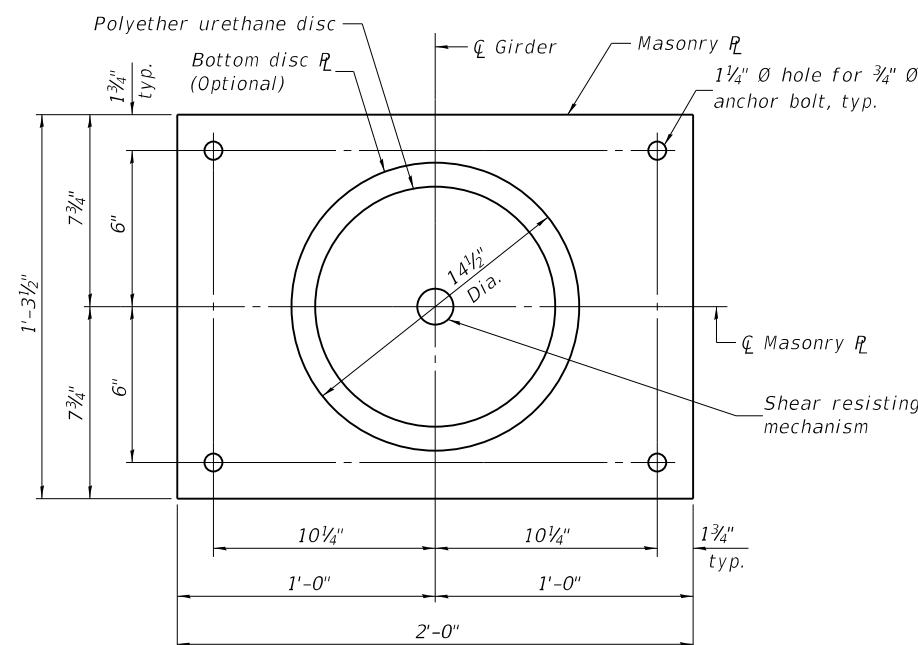
SETTING ANCHOR BOLTS AT EXPANSION BEARING

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

*As alternates to the bolted connection shown, the guide bars may be connected to the sole plate by groove welds or the guide bars and sole plate may be fabricated as a single piece.



SOLE PLATE AND TOP DISC PLATE PLAN



MASONRY PLATE AND BOTTOM DISC PLATE PLAN

NOTES:

- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.
- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

Fill Plates Required for Bearing Seat Adjustment

Girder	Plate Thickness
4	3/8"
5	1/4"

BILL OF MATERIAL

Item	Unit	Total
** High Load Multi-Rotational Bearings, Disc, Guided Expansion, 300 k	Each	5
Anchor Bolts, 3/4"	Each	20

** The value specified in the pay item name is an approximate vertical load capacity that is used for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

MODEL: D:\h\h\h\HLMR-D-GE.dwg; FILE NAME: HLMR-D-GE.dwg; PLOT DATE: 12/8/2023; PLOT SCALE: 2.0000; PLOT DATE: 12/8/2023

HLMR-D-GE

8/16/2022



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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GUIDED EXPANSION HLMR DISC BEARING DETAILS - NORTH ABUTMENT
 STRUCTURE NO. 060-0347

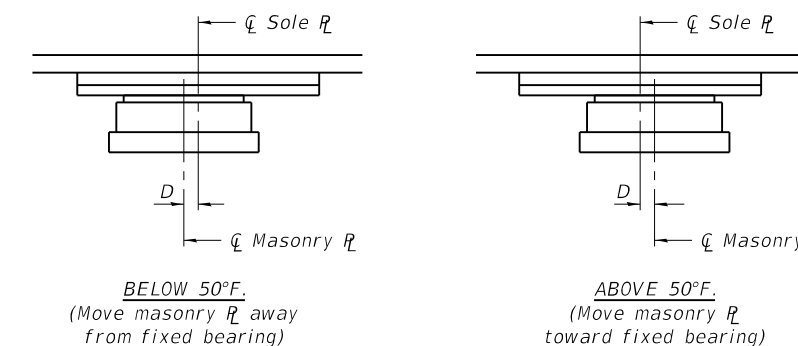
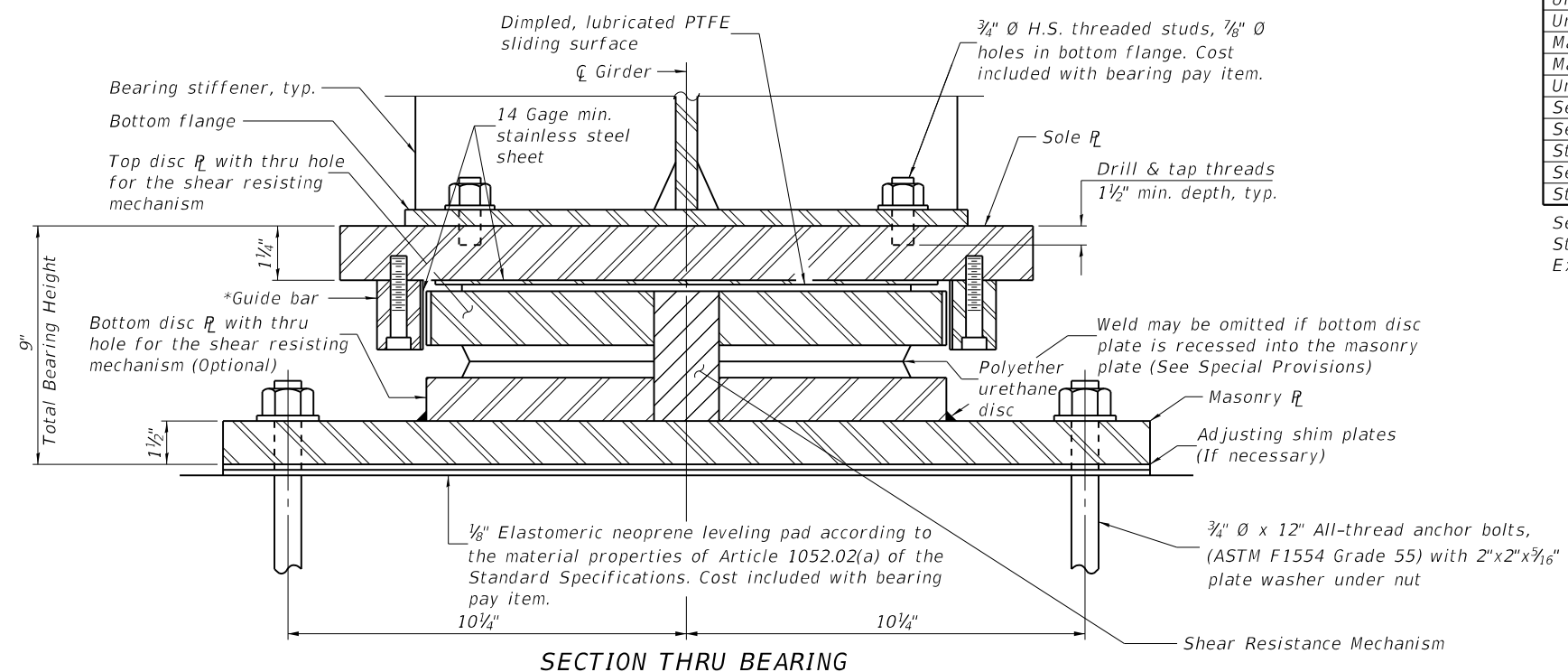
SCALE: SHEET 27 OF 41 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	67
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

DESIGN DATA

Unfactored Vertical Dead Load Reaction (R_{DC})	61.8 kips
Unfactored Vertical Wearing Surface Reaction (R_{DW})	17.1 kips
Unfactored Vertical Live Load without Impact Reaction (R_{LL})	85.5 kips
Maximum Strength or Extreme Event Lateral Reaction (H_u)	32.9 kips
Maximum Strength Limit State Rotation (Θ_u according to Article 14.4.2.2)	0.02 rad
Unfactored Design Thermal Movement from 50° F (ΔT)	1.30 in.
Service I Factored Lateral Reaction	0 kips
Service I Take Out Limit Rotation	0.02 rad
Strength I Factored Longitudinal Movement	1.56 in.
Service I Factored Vertical Reaction	164.4 kips
Strength I Factored Vertical Reaction	252.5 kips

Service I Load Factors = 1.0DC + 1.0DW + 1.0LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ



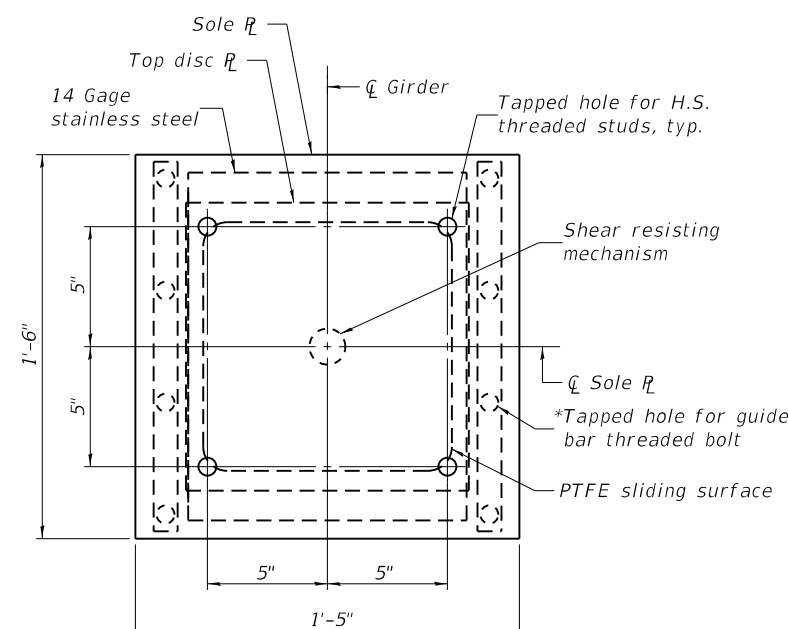
SETTING ANCHOR BOLTS AT EXPANSION BEARING

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

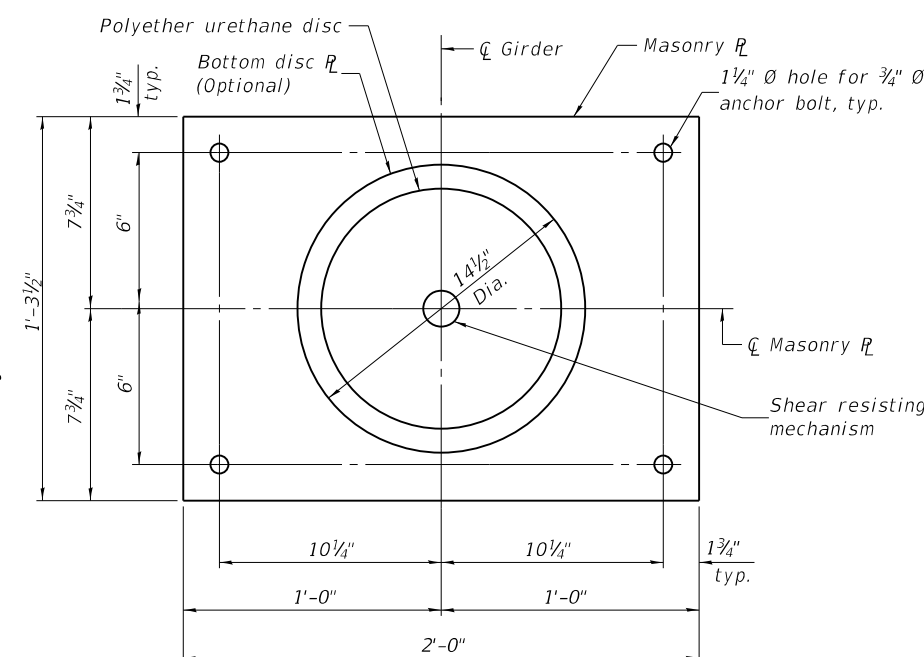
NOTES:

- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.
- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier or abutment concrete.

*As alternates to the bolted connection shown, the guide bars may be connected to the sole plate by groove welds or the guide bars and sole plate may be fabricated as a single piece.



SOLE PLATE AND TOP DISC PLATE PLAN



MASONRY PLATE AND BOTTOM DISC PLATE PLAN

Fill Plates Required for Bearing Seat Adjustment

Girder	Plate Thickness
4	3/8"

BILL OF MATERIAL

Item	Unit	Total
** High Load Multi-Rotational Bearings, Disc, Guided Expansion, 300 k	Each	5
Anchor Bolts, 3/4"	Each	20

** The value specified in the pay item name is an approximate vertical load capacity that is used for letting and bidding purposes only. Exact bearing capacity will vary subject to final design.

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HLMR-D-GE

8/16/2022

HMG
ENGINEERS
IL PROF DESIGN FIRM 184.000899

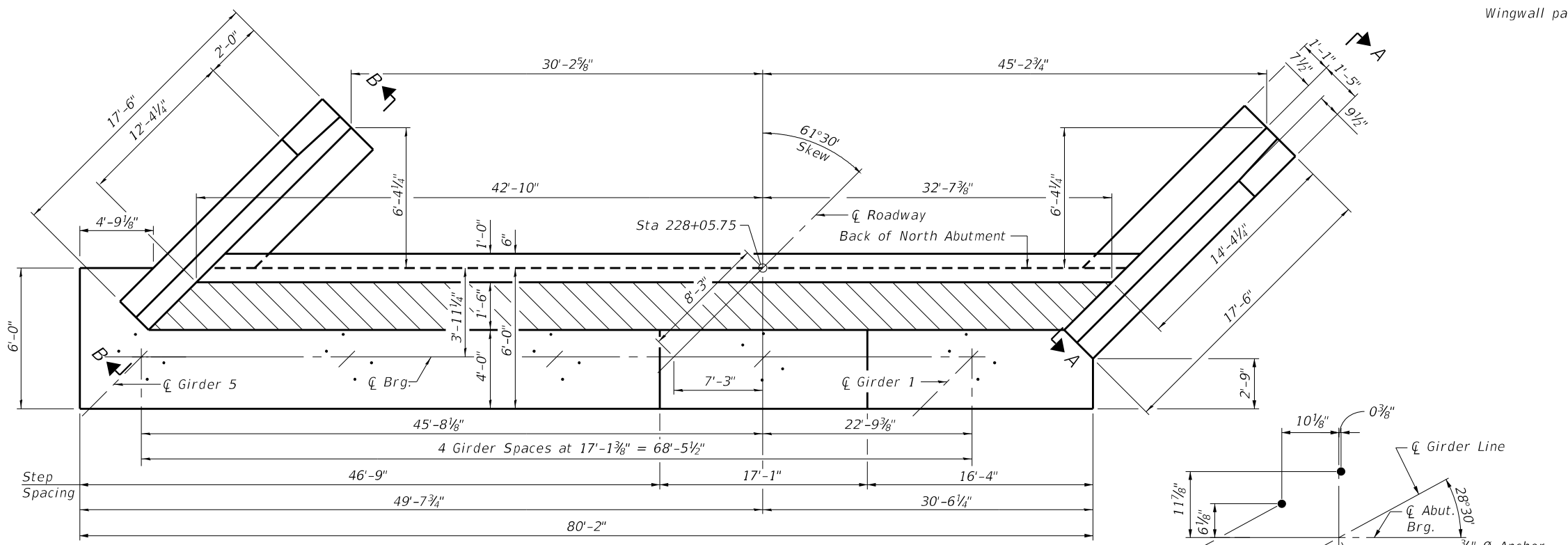
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

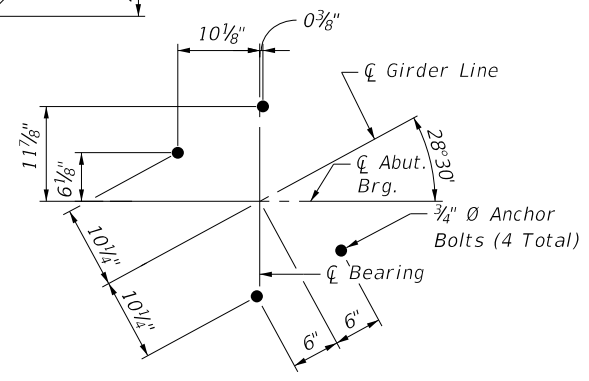
GUIDED EXPANSION HLMR DISC BEARING DETAILS – SOUTH ABUTMENT
STRUCTURE NO. 060-0347

SCALE: SHEET 28 OF 41 SHEETS STA. TO STA.

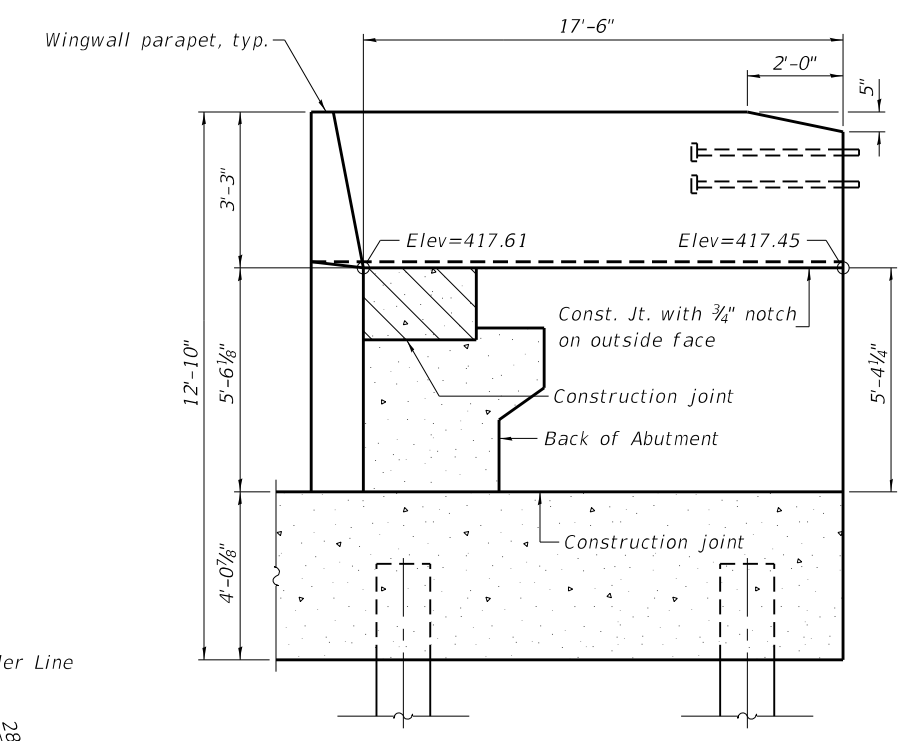
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	68
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	



PLAN

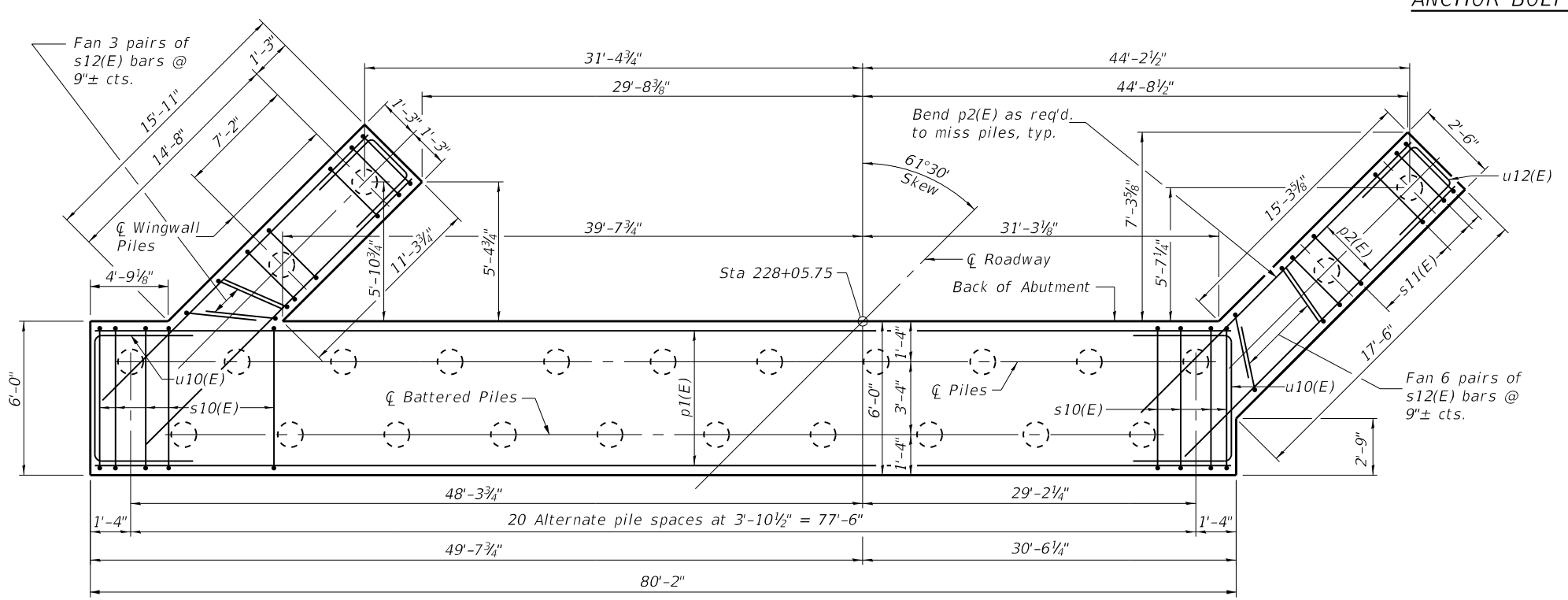


ANCHOR BOLT LAYOUT

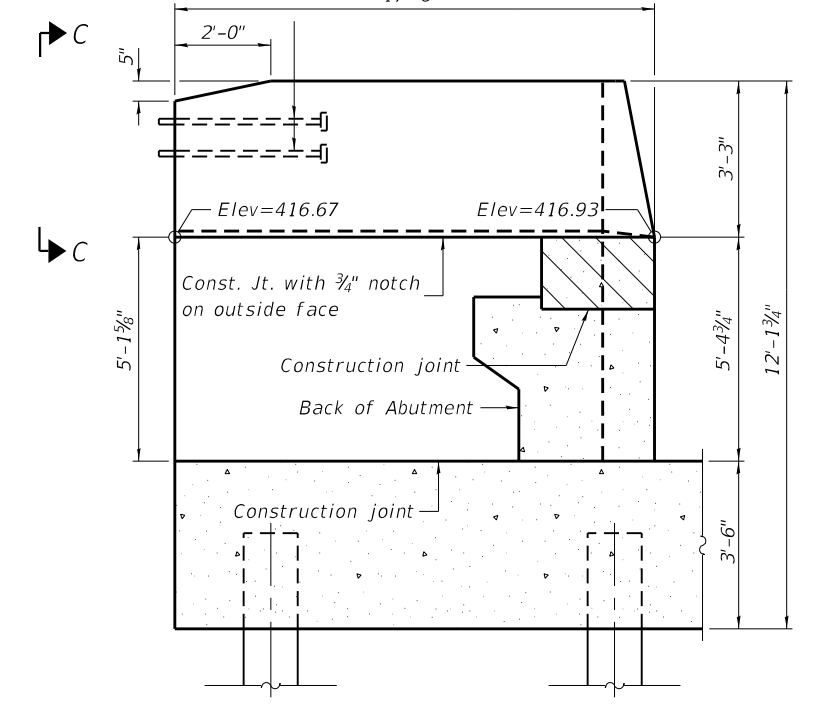


SECTION B-B
(Showing dimensions)

1" Ø Anchor bolts for Type 5 terminal connections only, see View C-C and Highway Standard 631026. For Type 6 terminal connections, see Highway Standard 631031, typ.



PILE CAP PLAN



SECTION A-A
(Showing dimensions)

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

(Sheet 1 of 3)



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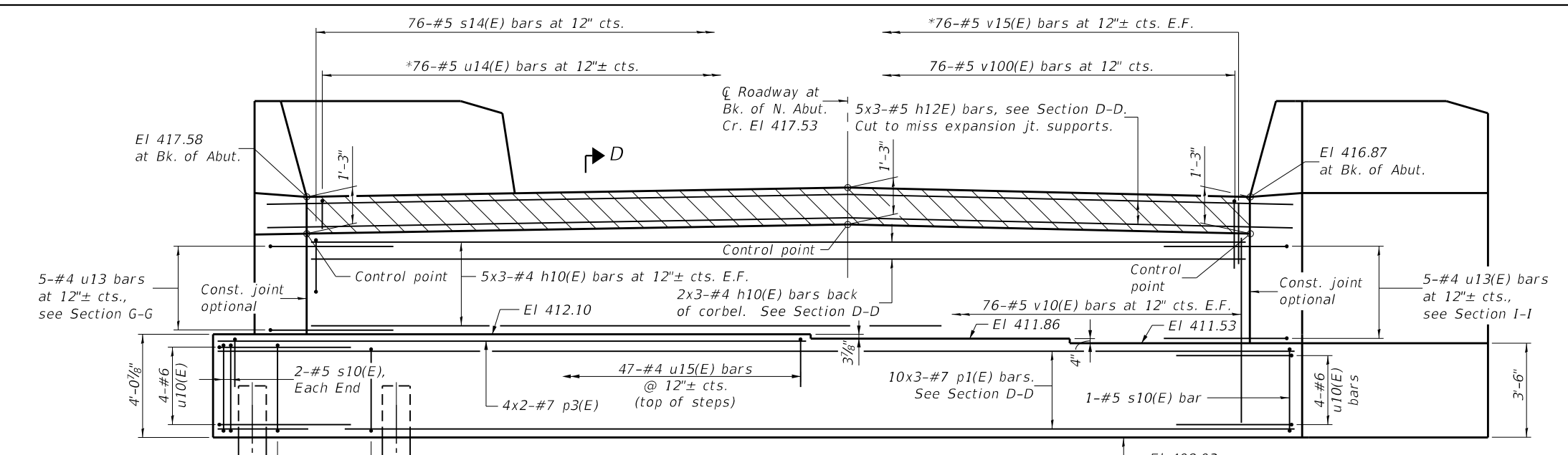
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 060-0347

SCALE: SHEET 30 OF 41 SHEETS STA. TO STA.

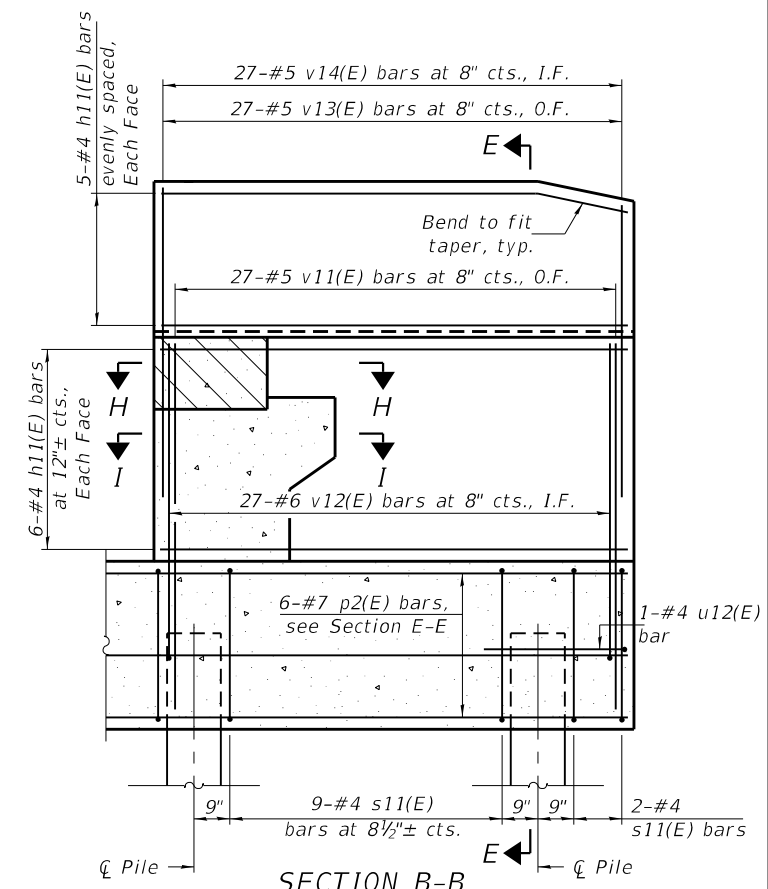
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	70
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

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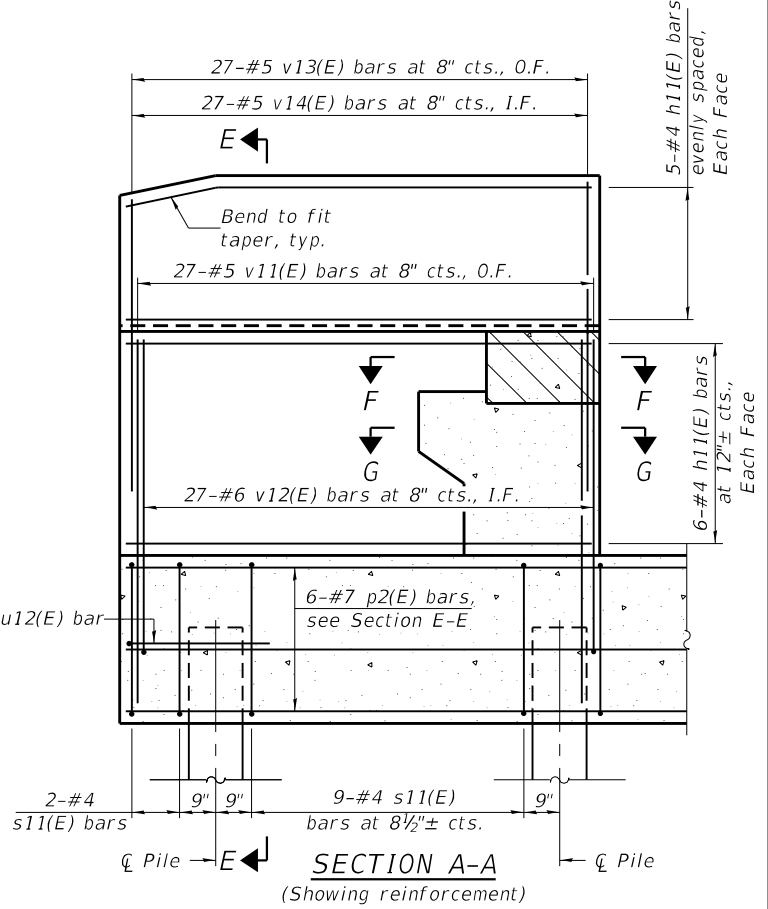


ELEVATION

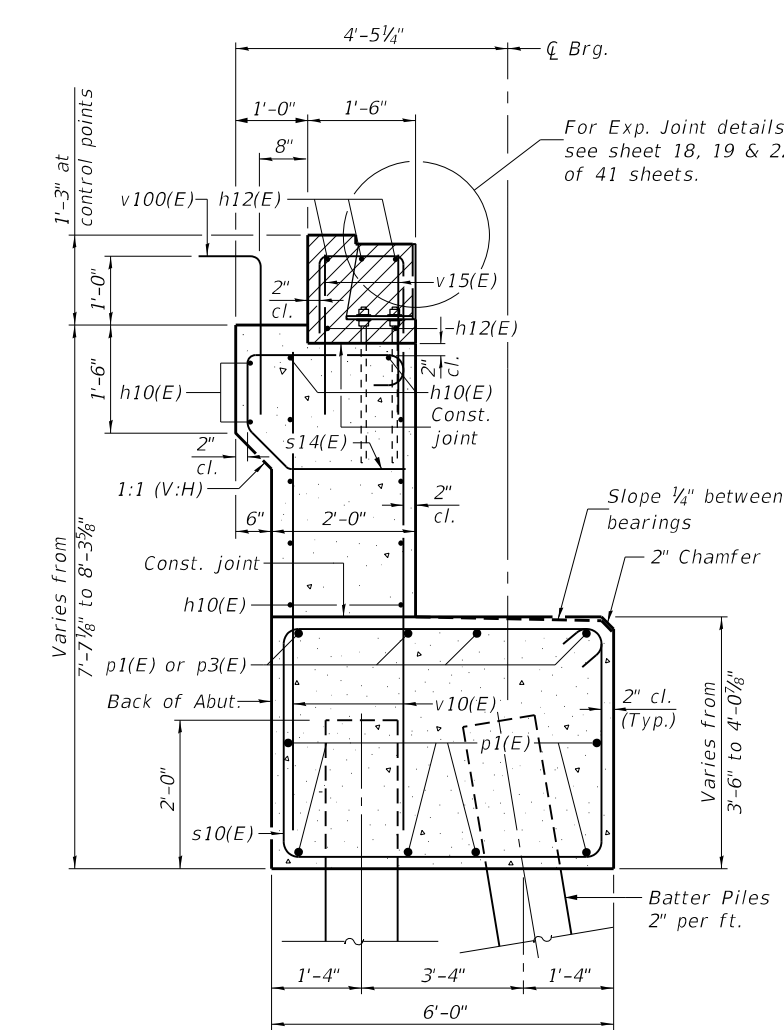
* Spaced to miss expansion joint supports or members according to the approved shop drawings and as approved by the Engineer.



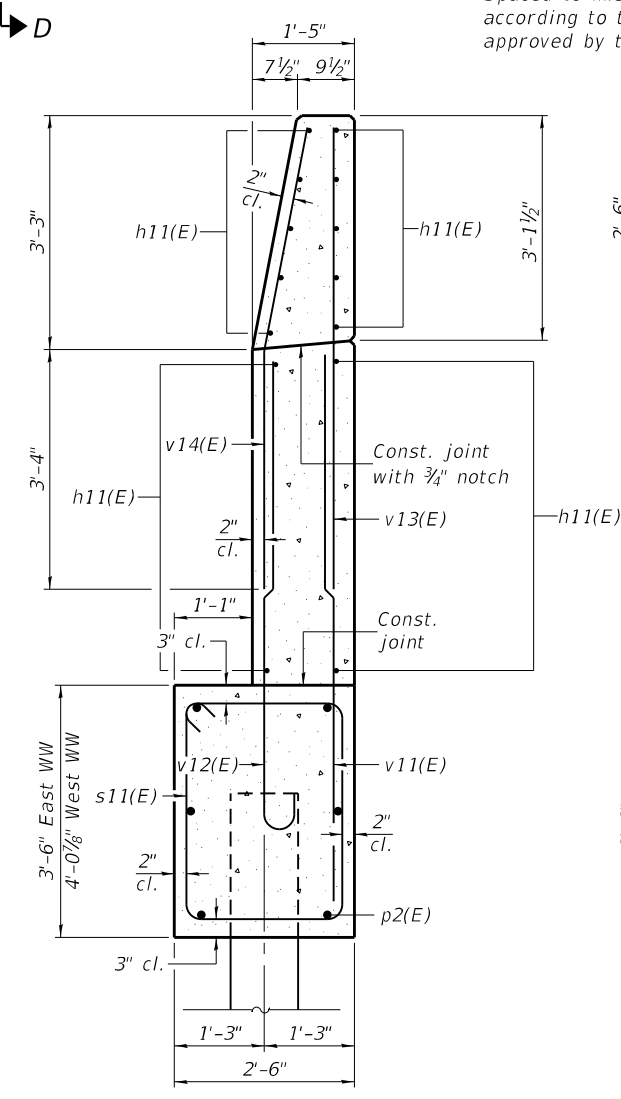
SECTION B-B
(Showing reinforcement)



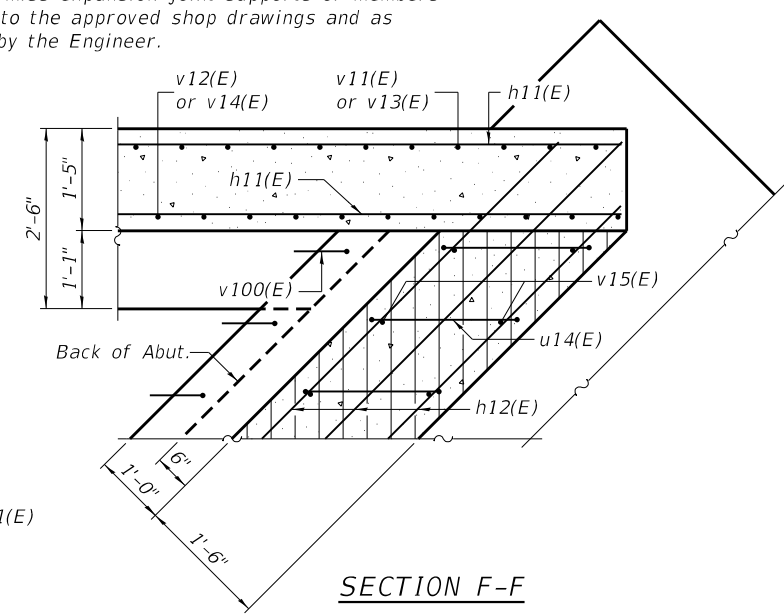
SECTION A-A
(Showing reinforcement)



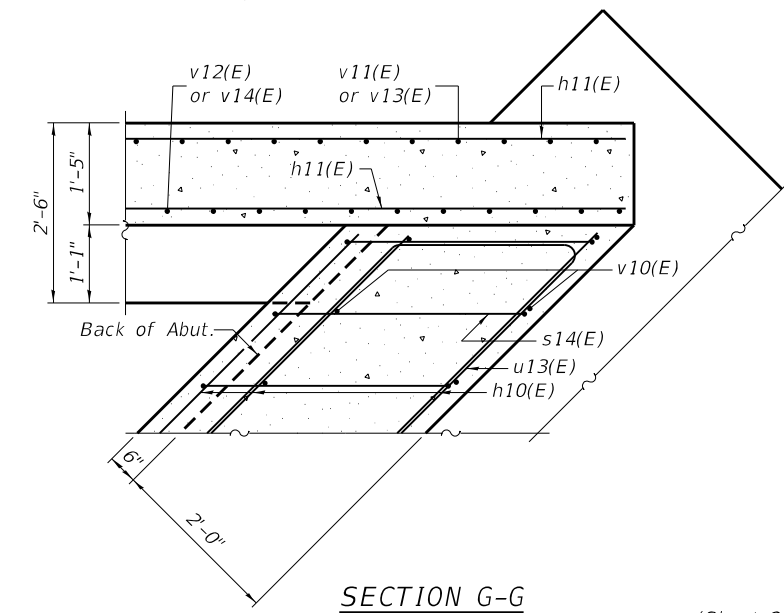
SECTION D-D
(At Rt. L's)



SECTION E-E
(At Rt. L's)

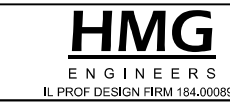


SECTION F-F



SECTION G-G

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



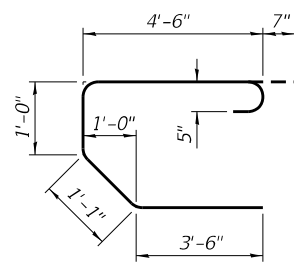
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

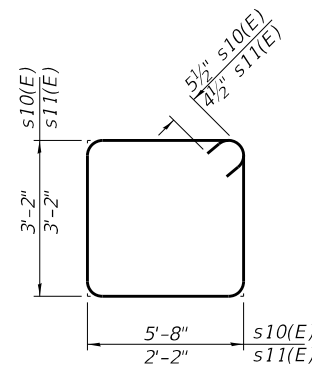
**NORTH ABUTMENT
STRUCTURE NO. 060-0347**

SCALE:	SHEET 31 OF 41 SHEETS	STA.	TO STA.
--------	-----------------------	------	---------

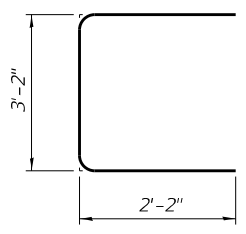
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	71
				CONTRACT NO. 76H49
				ILLINOIS FED. AID PROJECT



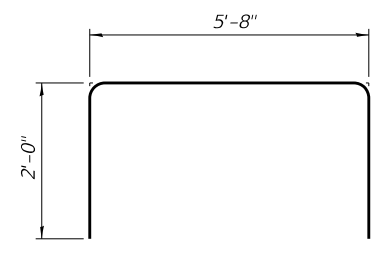
BAR s14(E)



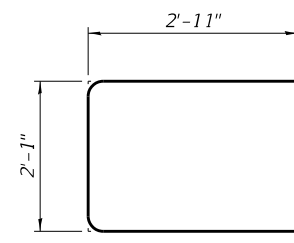
BARS s10(E) & s11(E)



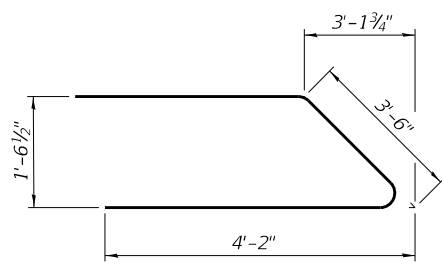
BAR s12(E)



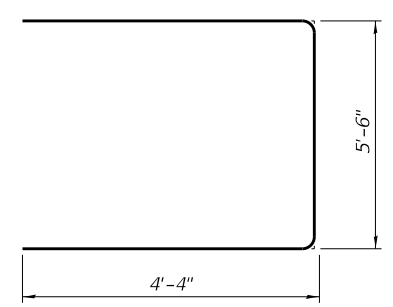
BAR u15(E)



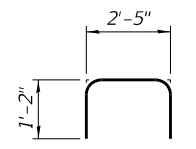
BAR u12(E)



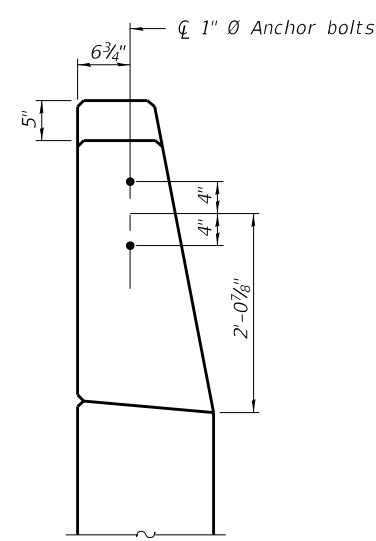
BAR u13(E)



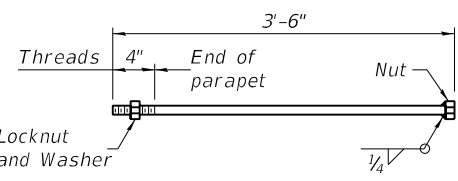
BAR u10(E)



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"

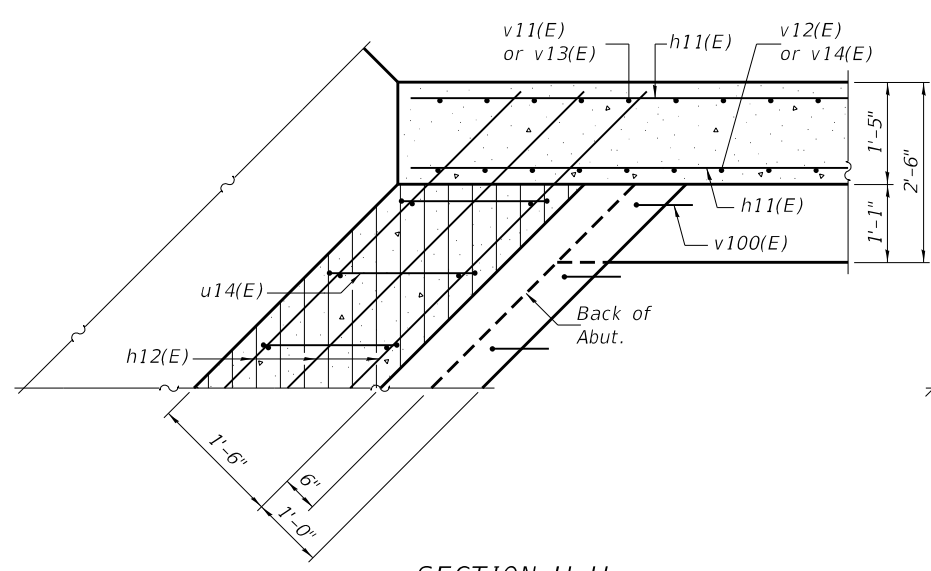
Notes:
 Hatched area to be poured separately after superstructure falsework has been removed and after approach slab side formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 12 of 41.
 Space reinforcement in cap to miss 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

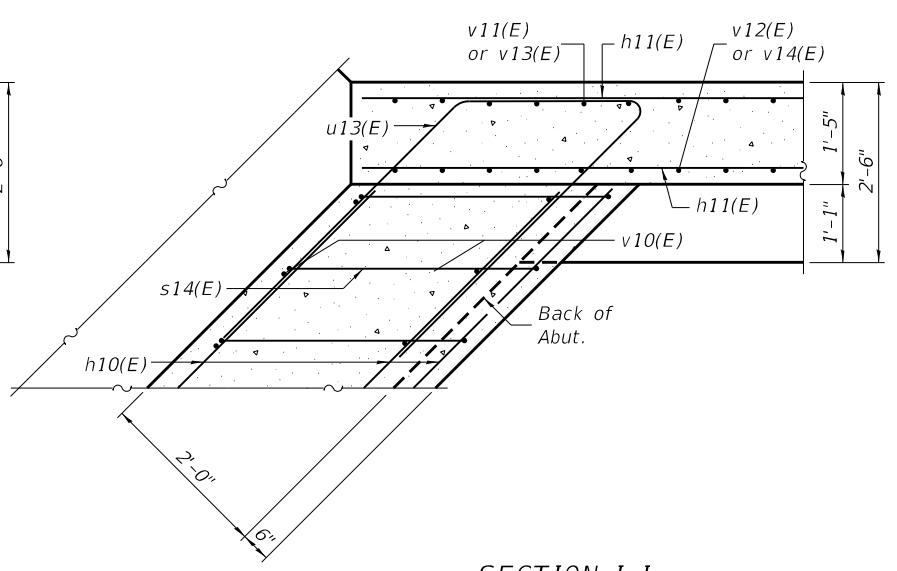
Bar	No.	Size	Length	Shape
h10(E)	36	#4	26'-9"	—
h11(E)	22	#4	17'-2"	—
h12(E)	15	#5	29'-6"	—
p1(E)	10	#7	29'-7"	—
p2(E)	12	#7	20'-0"	—
p3(E)	8	#7	25'-6"	—
s10(E)	104	#5	18'-7"	□
s11(E)	22	#4	11'-5"	□
s12(E)	18	#4	7'-6"	□
s14(E)	76	#5	10'-8"	□
u10(E)	8	#6	14'-5"	┌
u12(E)	2	#4	7'-11"	┌
u13(E)	10	#4	11'-10"	┌
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

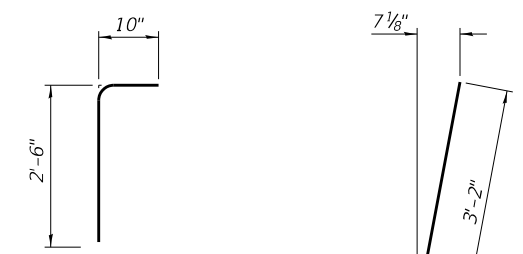
Type: Metal Shell PP14 x 0.312"
 Nominal Required Bearing: 308 k
 Factored Resistance Available: 129 k
 Est. Length: 60'
 No. Production Piles: 24
 No. Test Piles: 1



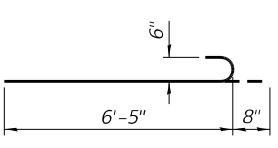
SECTION H-H



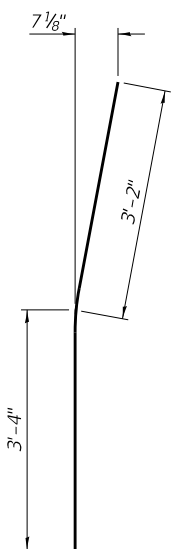
SECTION I-I



BAR v100(E)



BAR v12(E)



BAR v14(E)

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

(Sheet 3 of 3)

MODEL: D:\h\h\...
 FILE NAME: 111111...
 PLOT DATE: 12/8/2023



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

DESIGNED - KMM	REVISIONS
DRAWN - KHL	REVISIONS
CHECKED - BGH	REVISIONS
DATE - 12/08/23	REVISIONS

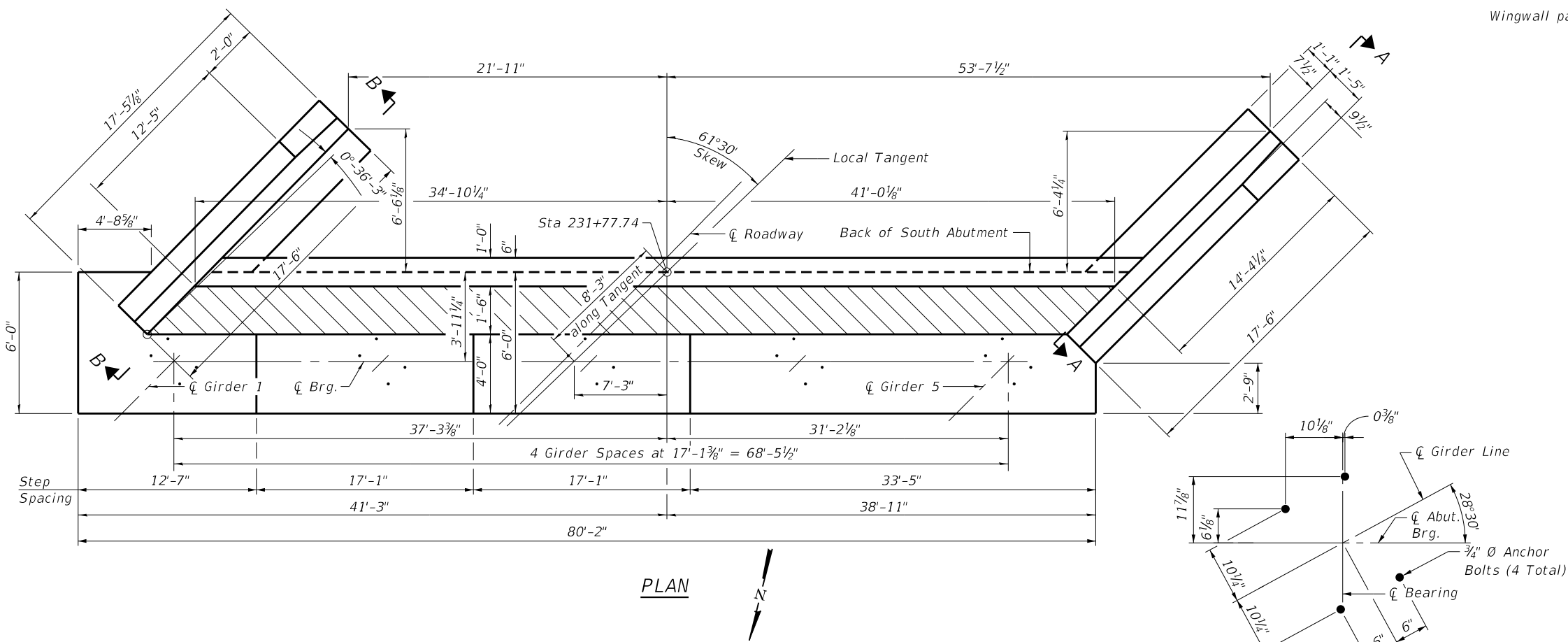
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
 STRUCTURE NO. 060-0347

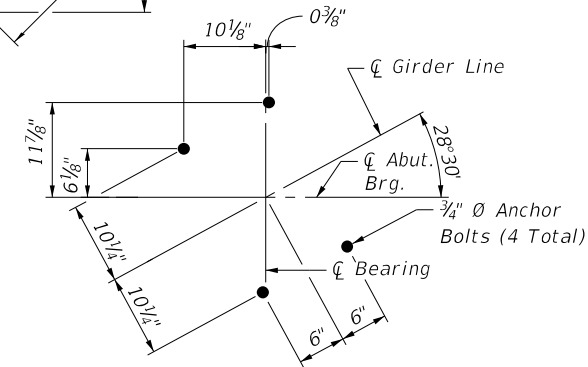
SCALE: SHEET 32 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	72

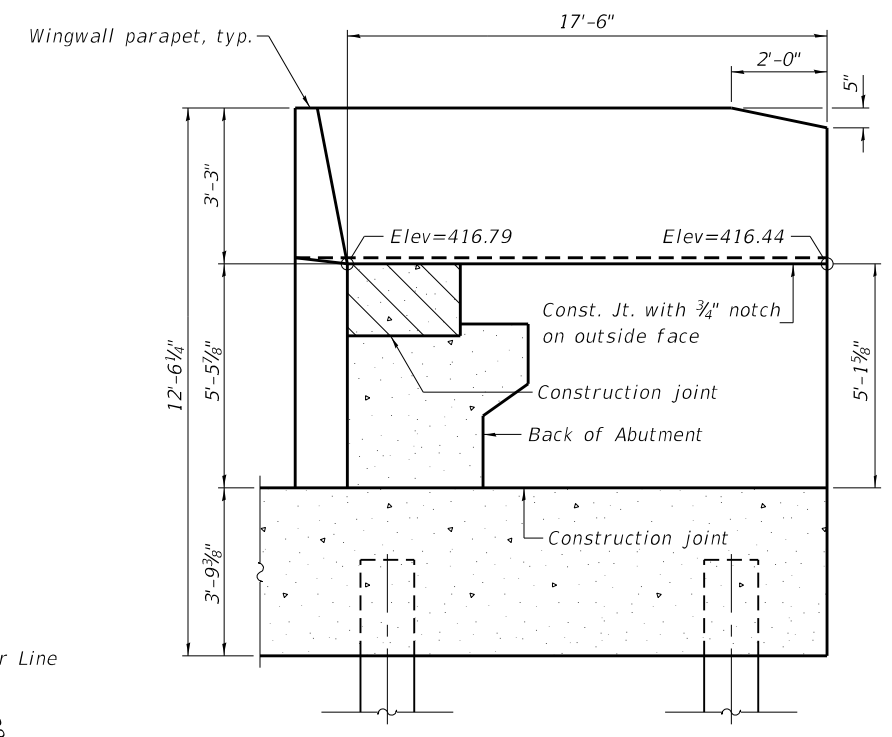
CONTRACT NO. 76H49
 ILLINOIS FED. AID PROJECT



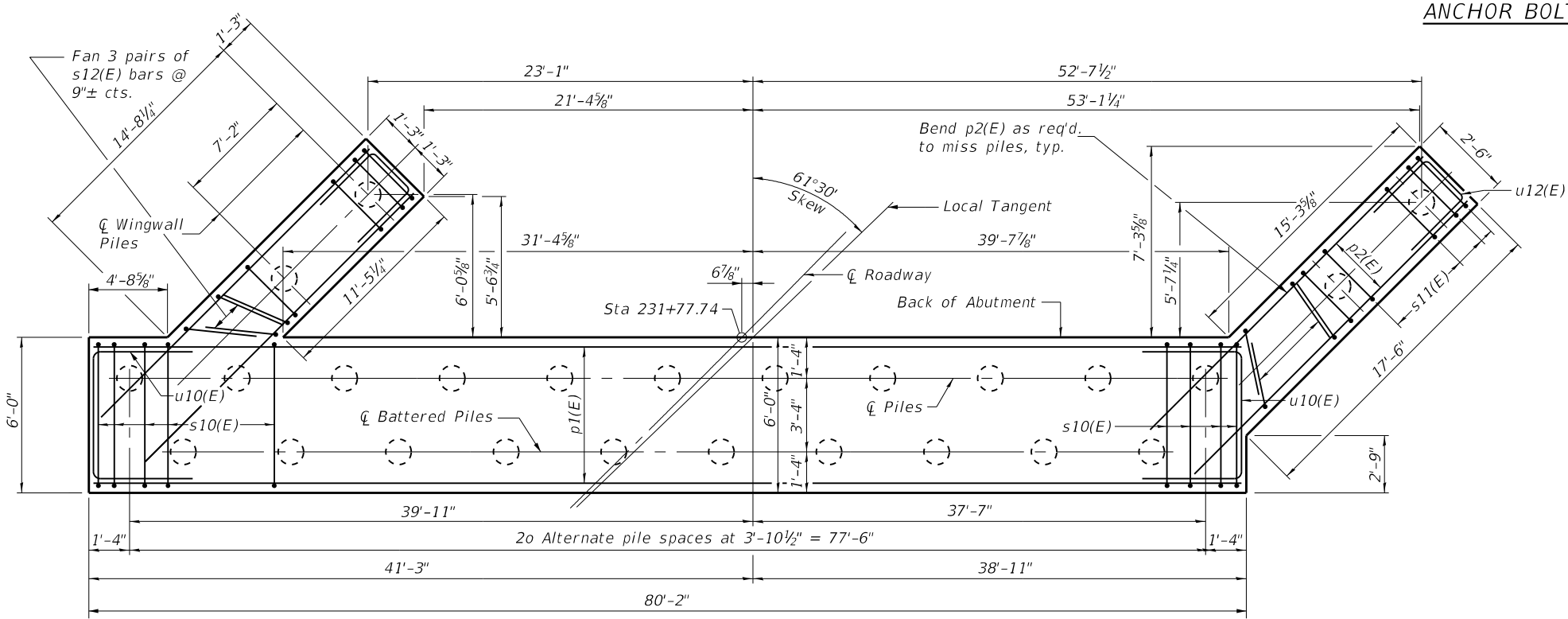
PLAN



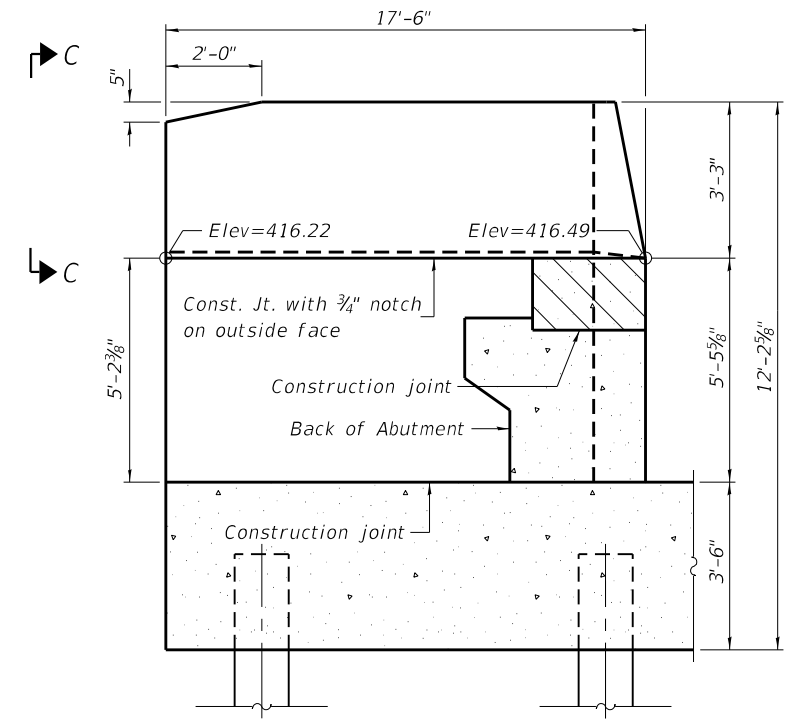
ANCHOR BOLT LAYOUT



SECTION B-B
(Showing dimensions)



PILE CAP PLAN



SECTION A-A
(Showing dimensions)

(Sheet 1 of 3)

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



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

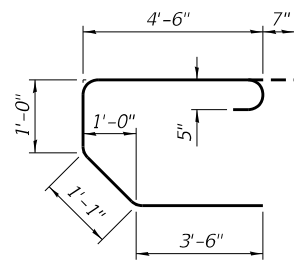
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 060-0347

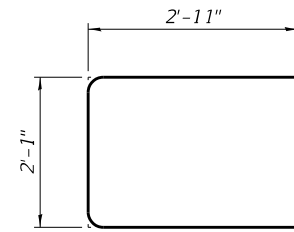
SCALE: SHEET 33 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	73
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

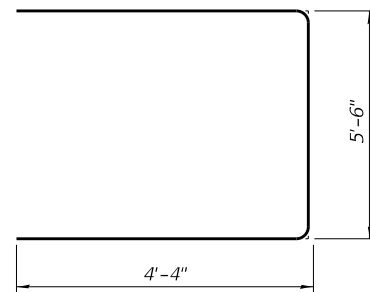
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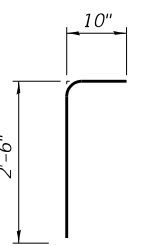
BAR s14(E)



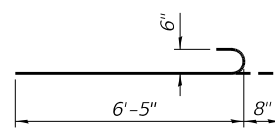
BAR u12(E)



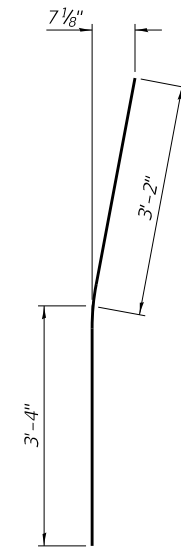
BAR u10(E)



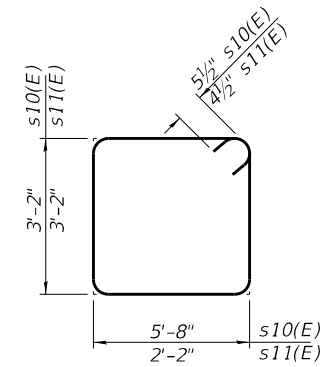
BAR v100(E)



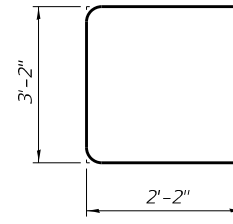
BAR v12(E)



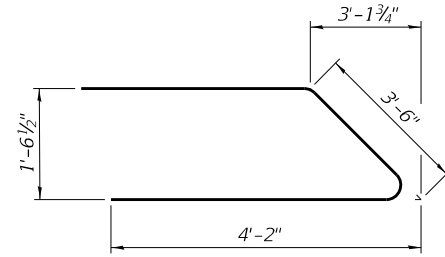
BAR v14(E)



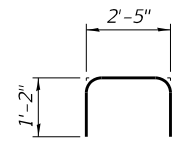
BARS s10(E) & s11(E)



BAR s12(E)



BAR u13(E)



BAR u14(E)

MIN. BAR LAP

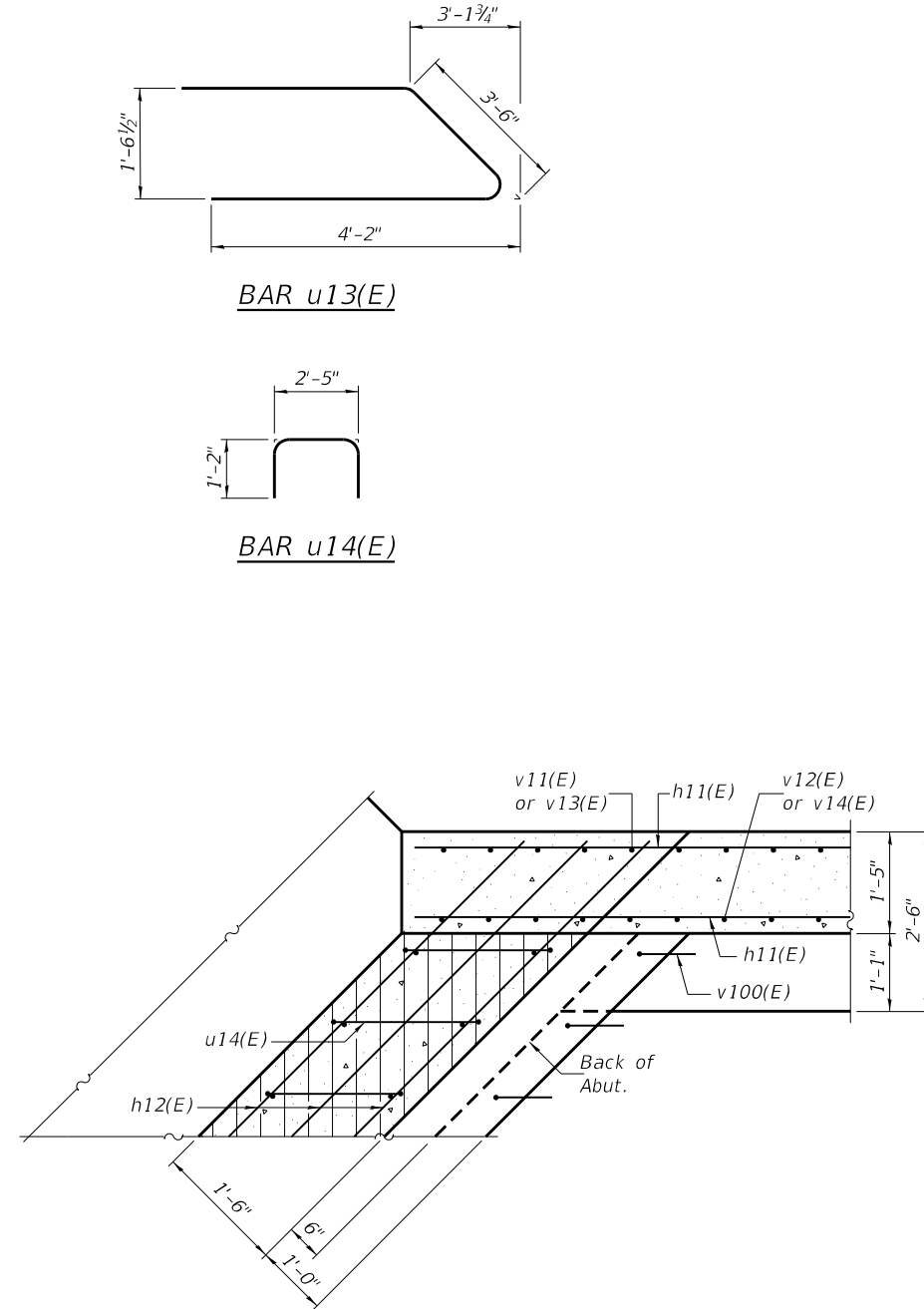
BAR	LAP
#7	4'-5"

SOUTH ABUTMENT
BILL OF MATERIAL

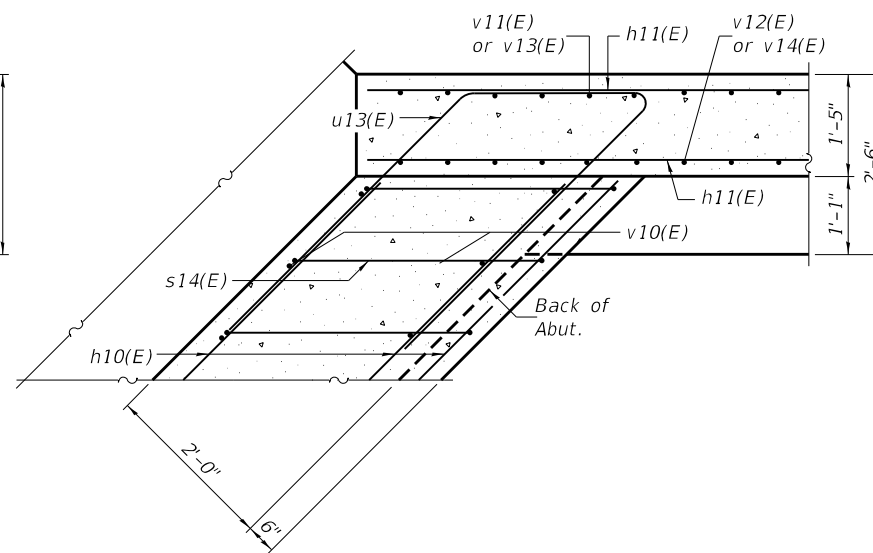
Bar	No.	Size	Length	Shape
h10(E)	36	#4	26'-9"	▬
h11(E)	22	#4	17'-2"	▬
h12(E)	15	#5	29'-6"	▬
p1(E)	10	#7	29'-7"	▬
p2(E)	12	#7	20'-0"	▬
s10(E)	104	#5	18'-7"	□
s11(E)	22	#4	11'-5"	□
s12(E)	18	#4	7'-6"	▬
s14(E)	76	#5	10'-8"	└
u10(E)	8	#6	14'-5"	└
u12(E)	2	#4	7'-11"	└
u13(E)	10	#4	11'-10"	└
u14(E)	76	#5	4'-9"	└
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	

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



SECTION H-H



SECTION I-I

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

(Sheet 3 of 3)



USER NAME = tkrupep
PLOT SCALE = 2.0000' / in.
PLOT DATE = 12/8/2023

DESIGNED - KMM
DRAWN - KHL
CHECKED - BGH
DATE - 12/08/23

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 060-0347

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

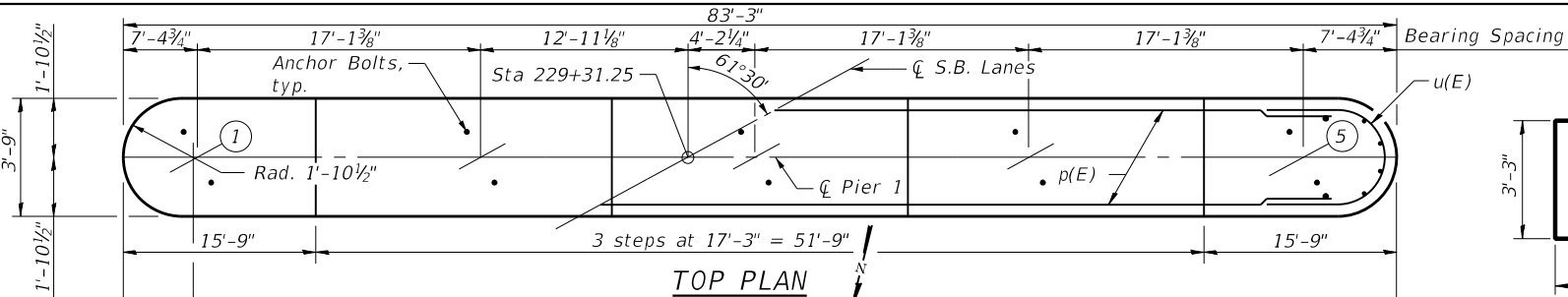
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	75
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: I:\3249_PTB_199_03218249_059_W05_IL111_RdWork\CAD_Sheets\0600347-76H49-073-75-abut-33-35.dgn

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



BAR s(E)

BAR s1(E)

BAR n(E)

MIN. BAR LAP

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

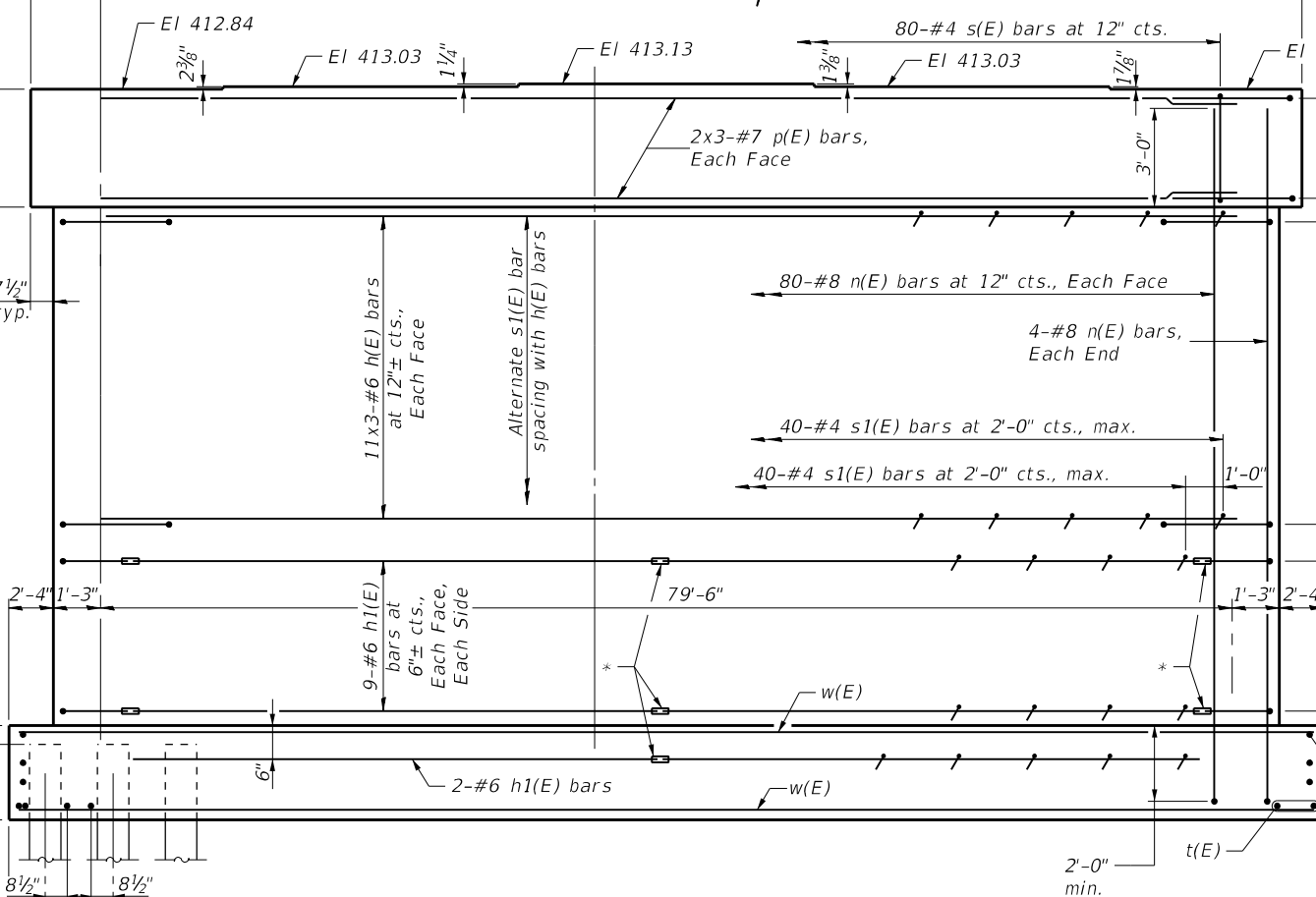
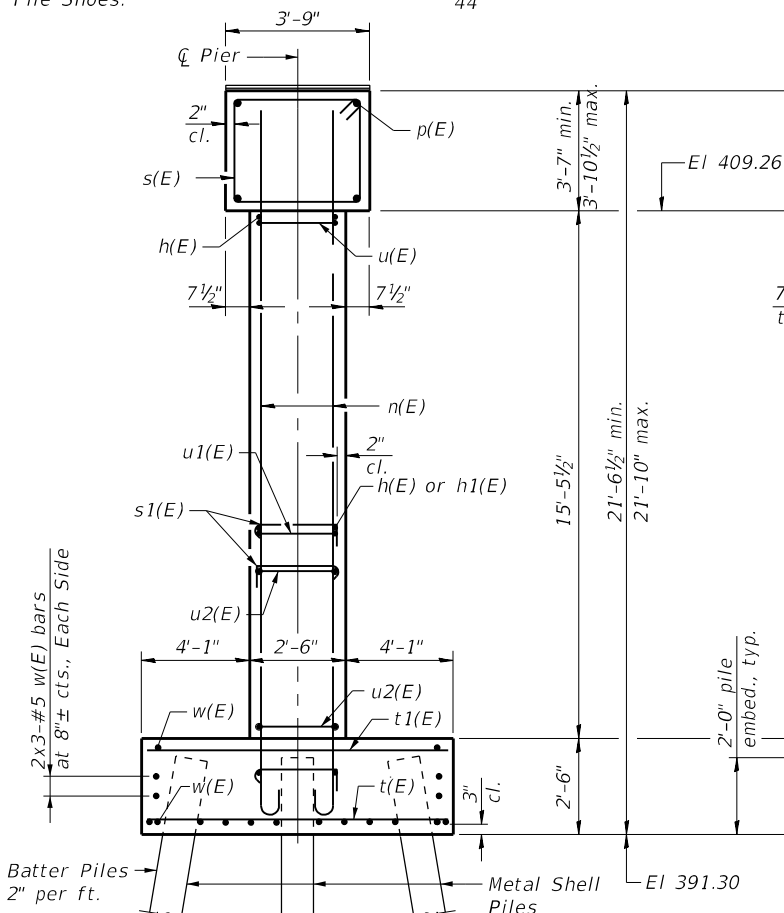
BARS u(E)

BARS u2(E)

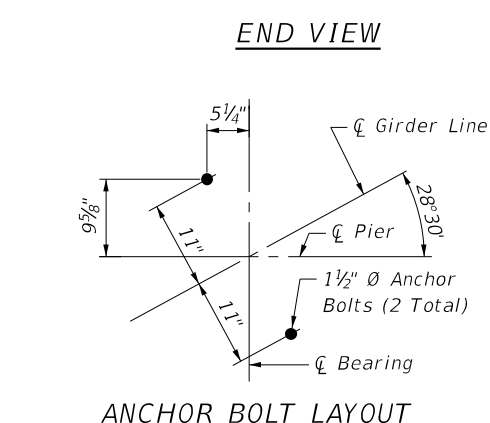
BARS u1(E)

PIER 1
BILL OF MATERIAL

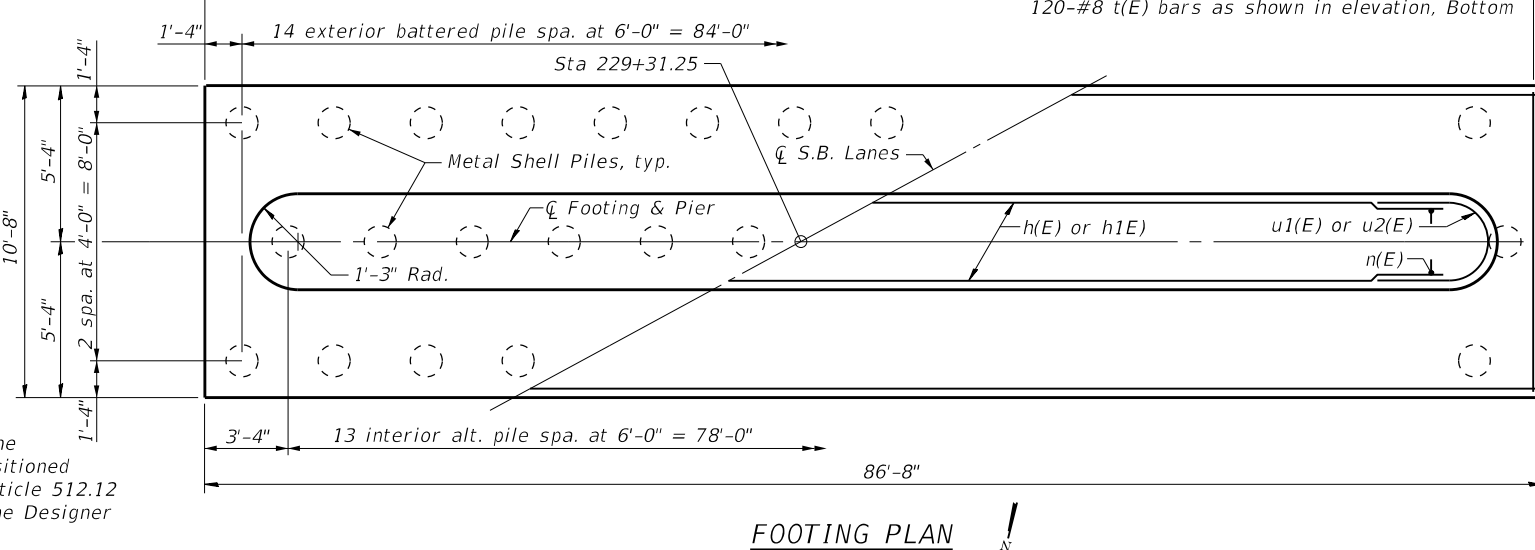
Bar	No.	Size	Length	Shape
h(E)	66	#6	29'-1"	—
h1(E)	40	#6	38'-9"	—
n(E)	168	#8	21'-6"	U
p(E)	12	#7	29'-6"	—
s(E)	80	#4	14'-1"	□
s1(E)	880	#4	3'-3"	┌
t(E)	120	#8	10'-2"	—
t1(E)	87	#4	10'-4"	—
u(E)	8	#4	9'-3"	U
u1(E)	22	#6	9'-10"	U
u2(E)	18	#6	5'-2"	U
w(E)	84	#5	30'-11"	—
Cofferdam Excavation	Cu Yd	673.5		
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	225		
Mechanical Splicers	Each	56		



* Mechanical splice h1(E) bars to h(E) and h1(E) to u2(E) bars.



PIER 1



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	DESIGNED	REVISION
tkrupp	KMM	
	KHL	
	BGH	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 060-0347

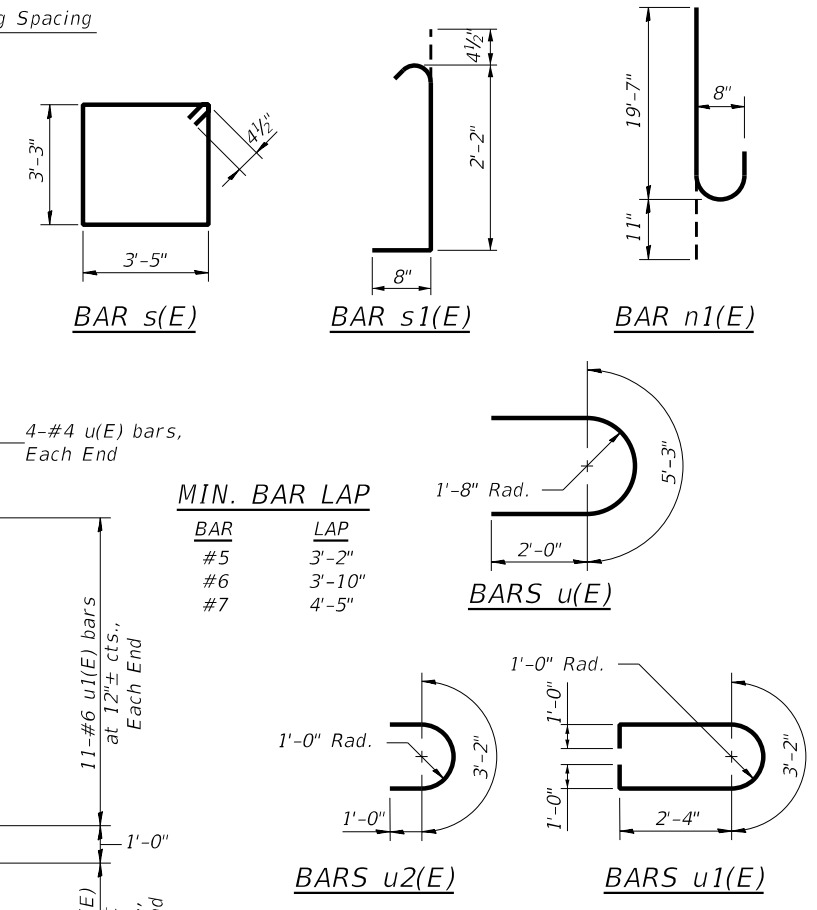
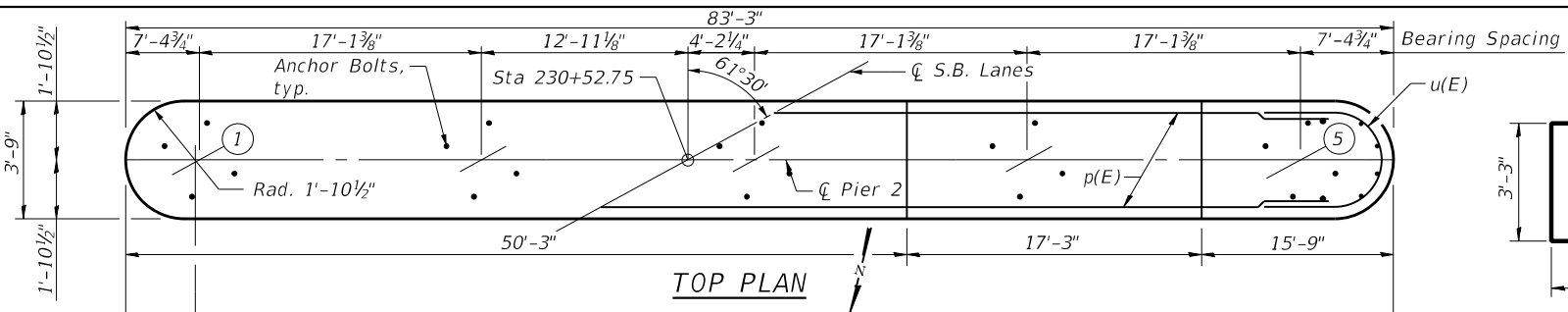
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	76
				CONTRACT NO. 76H49

MODEL: RefEdit; FILE NAME: H:\060-0347\113_Bridges\GAD_Sheets\060-0347\Fig\H49-076-pier1-36.dgn

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

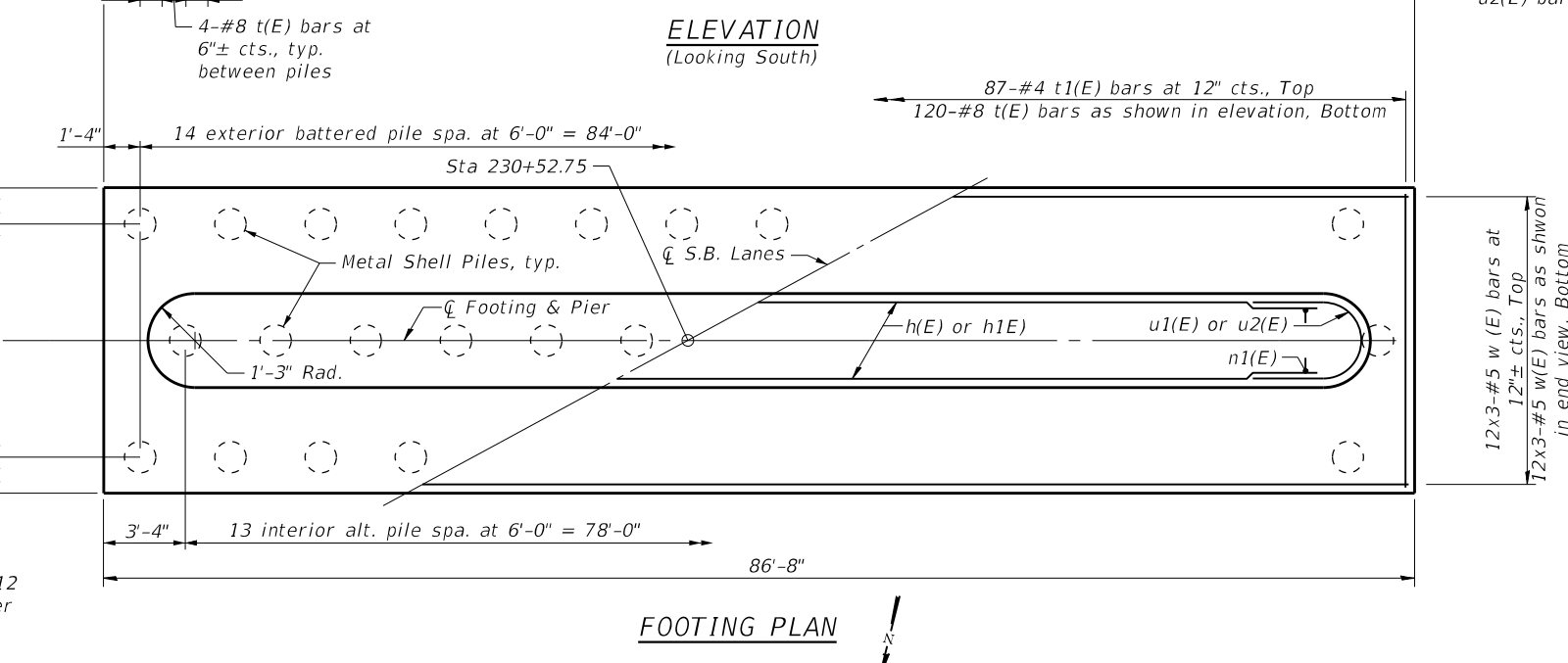
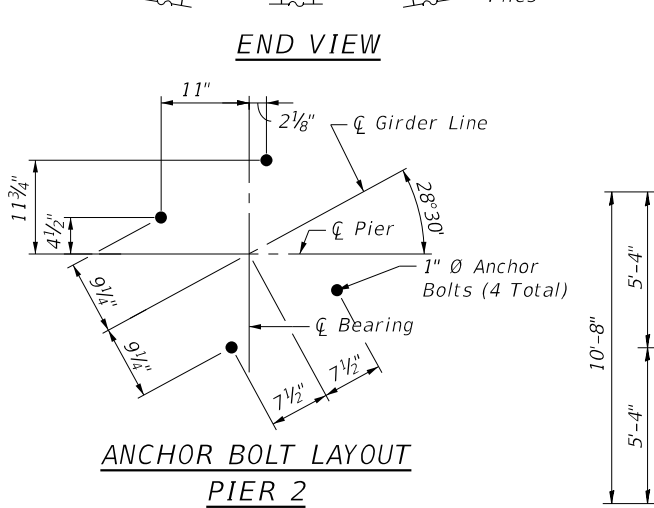
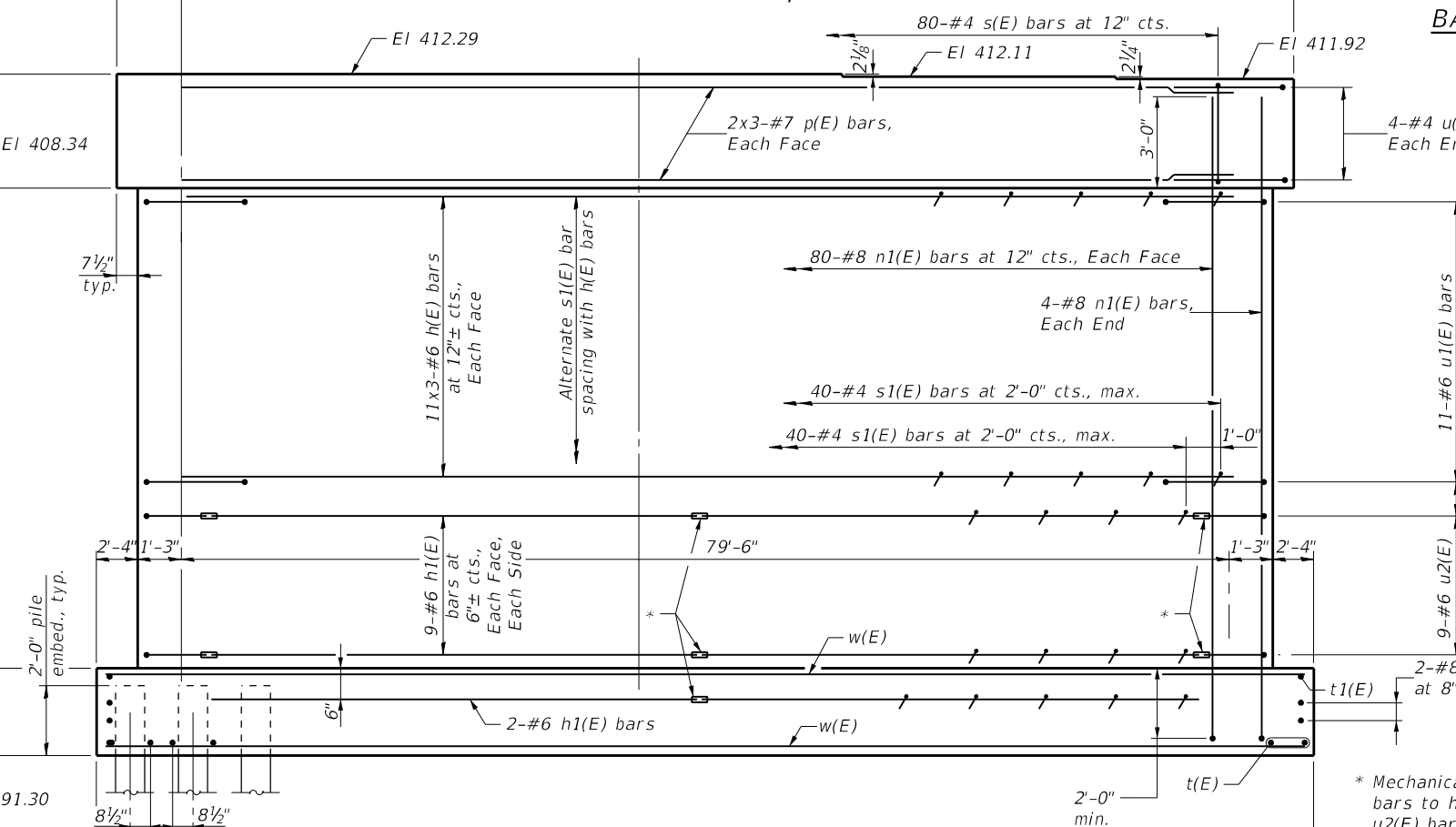
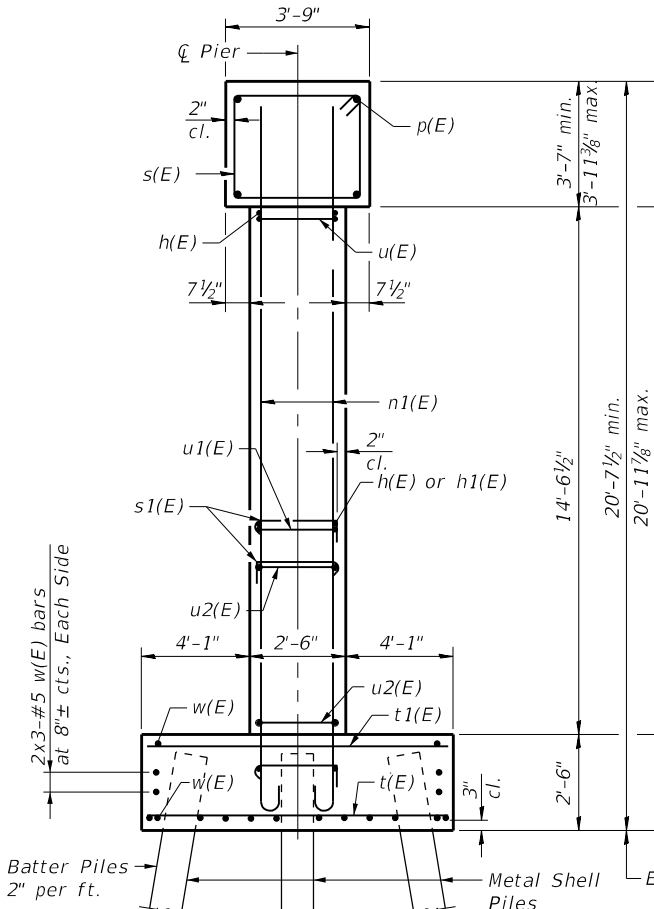
PILE DATA

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



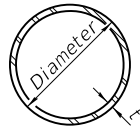
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PLOT SCALE = 2.0000' / in.	DRAWN - KHL	REVISED -
PLOT DATE = 12/8/2023	CHECKED - BGH	REVISED -
	DATE = 12/08/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

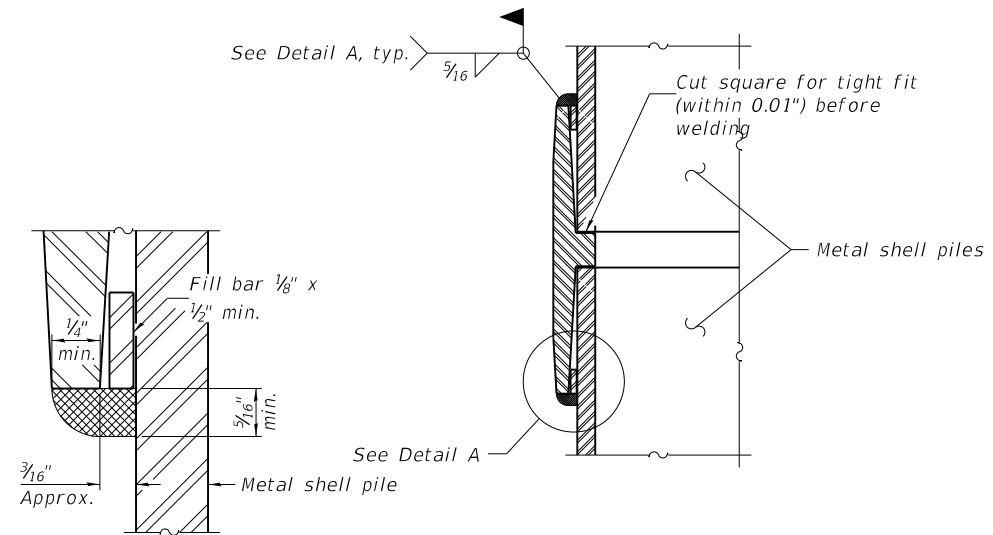
SCALE: SHEET 37 OF 41 SHEETS STA. TO STA.

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

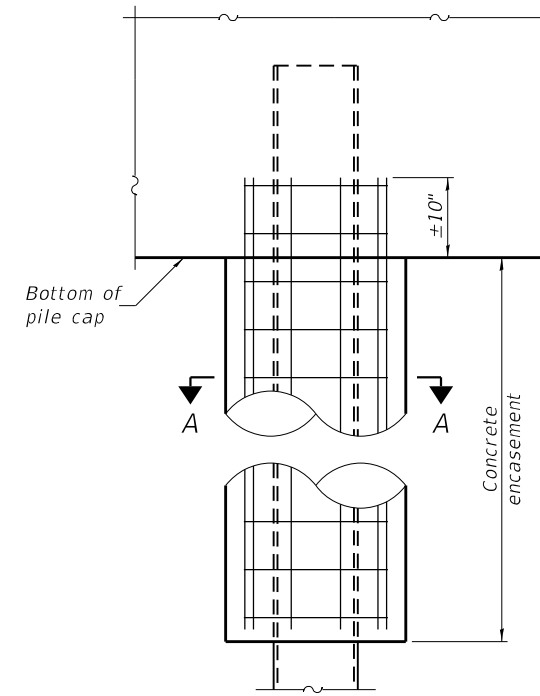


METAL SHELL PILE TABLE

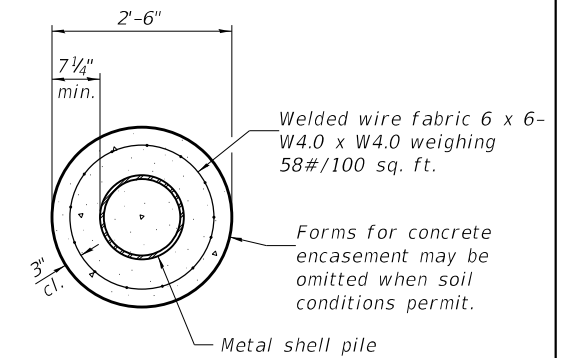
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

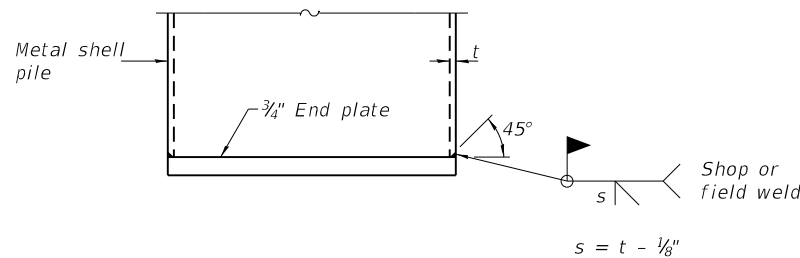


ELEVATION



SECTION A-A

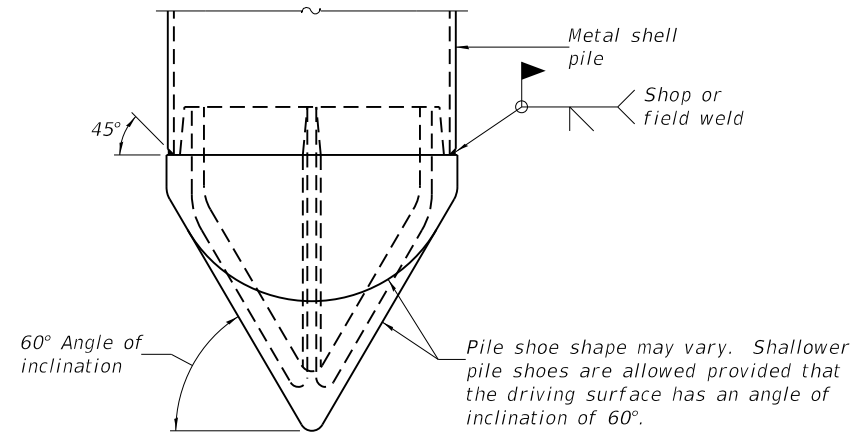
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



END PLATE ATTACHMENT

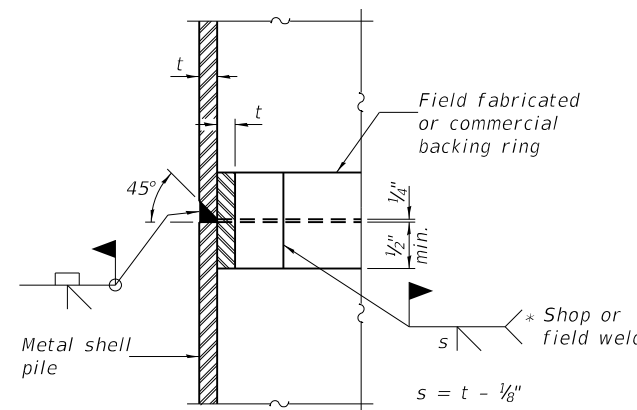
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



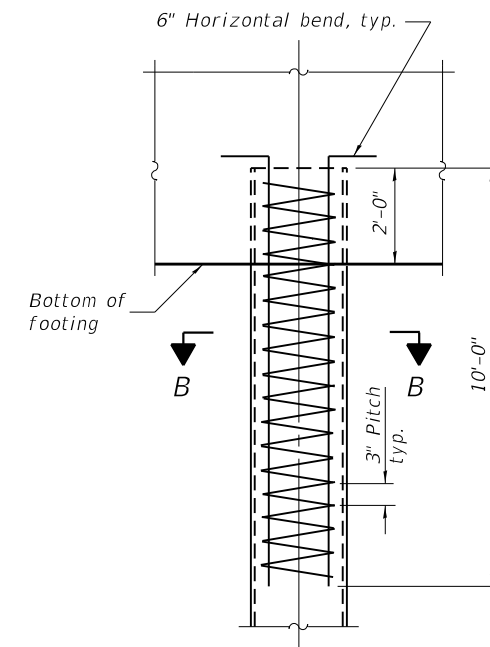
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

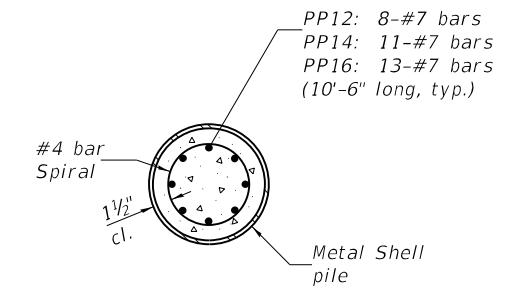


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS & PIERS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 2-1-2023

MODEL: D:\p\h\...
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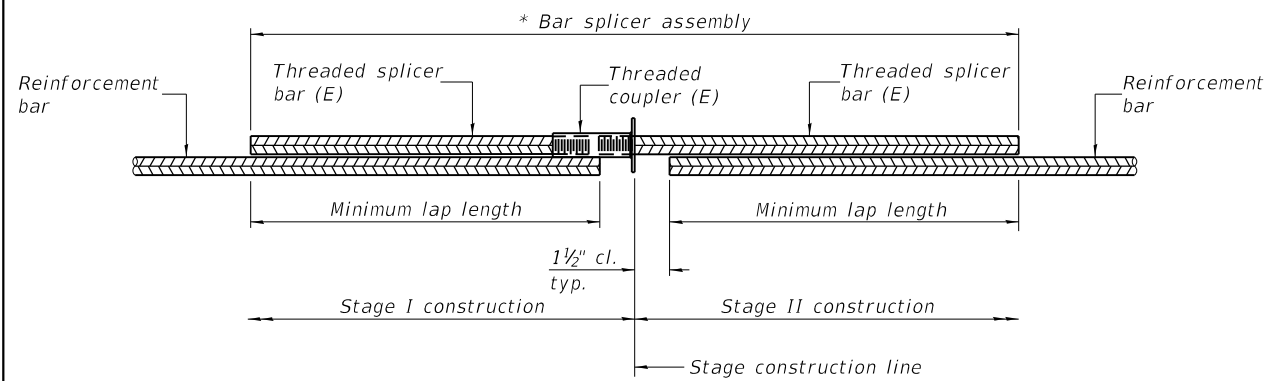
USER NAME = tkrupe	DESIGNED - KMM	REVISED -
PLOT SCALE = 2.0000' / in.	DRAWN - KHL	REVISED -
PLOT DATE = 12/8/2023	CHECKED - BGH	REVISED -
	DATE - 12/08/23	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 060-0347**

SCALE: SHEET 38 OF 41 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	78
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



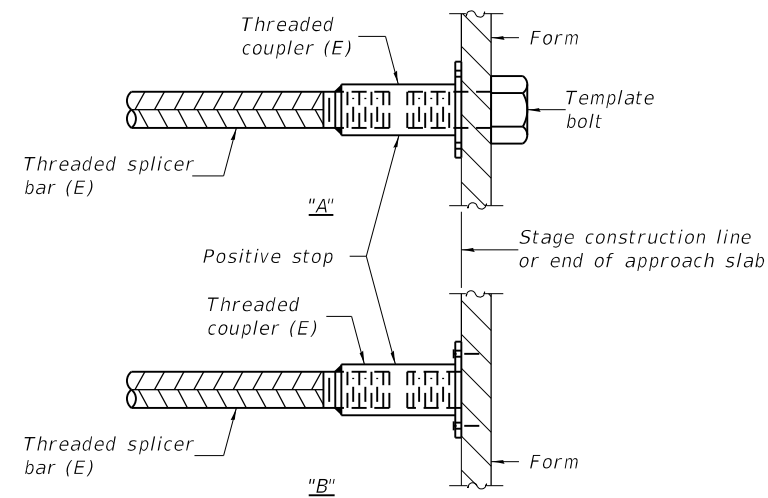
STANDARD BAR SPLICER ASSEMBLY PLAN

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

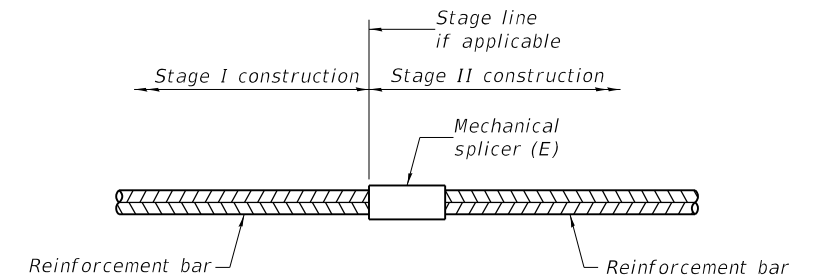


INSTALLATION AND SETTING METHODS

"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
Top of Deck Ends	9	8
Pier 1	6	56
Pier 2	6	56

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Ref: hgt
 FILE NAME: H:\8248\8248.dwg
 PROJECT: 184.000899 - Bridge 0600347-16H49-079-splicer-39.dgn

BSD-1

2-1-2023



USER NAME = tkrupep
 PLOT SCALE = 2.0000" / in.
 PLOT DATE = 12/8/2023

DESIGNED - KMM
 DRAWN - KHL
 CHECKED - BGH
 DATE - 12/08/23

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 060-0347

SCALE: SHEET 39 OF 41 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	6-23B-1	MADISON	90	79
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.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT	415.0					N/A	395.8	394.0	21.0	N/A					
FILL: Brown, CLAY LOAM (A-7), moist, soft 1 1.9 B/20 19 1 1.9 B/20 19 3 2.6 S/15 20 6 2.6 S/15 20 -5 FILL: Gray, CLAY LOAM (A-7), moist 1 2.1 S/15 17 8 2.1 S/15 17 12 FILL: Gray, SILT (A-4), moist, very stiff 1 0.8 S/10 23 4 0.8 S/10 23 4 0.8 S/10 23 -10 SILTY CLAY LOAM: Gray, moist, (A-4) Grain Size Analysis performed 1 0.5 B/20 32 1 0.5 B/20 32 1 0.5 P 34 1 0.5 P 34 -15 CLAY: Gray, moist, soft, (A-7) 1 0.6 B/20 24 1 0.6 B/20 24 2 0.6 B/20 24 ST -20																		

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.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT	415.0					N/A	395.8	394.0	21.0	N/A					
CLAY: Gray, trace shells, moist, very soft, (A-7) (continued) 1 0.4 B/20 29 1 0.4 B/20 29 1 0.4 B/20 29 371.0 SAND: Gray, fine to coarse grained, moist, loose, (A-1) Grain Size Analysis performed 4 0.3 S/15 69 3 0.3 S/15 69 -45 SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-3) Grain Size Analysis performed 10 NC -- 10 NC -- -65 10 CLAY: Gray, trace wood, moist, medium stiff, (A-7) 348.0 WOH 0.5 B/20 30 1 0.6 B/20 30 1 0.6 B/20 30 WOH 0.3 B/20 34 3 4 NC -- 4 4 NC -- -50 4 SAND: Gray, fine to coarse grained, moist, medium dense, (A-3) 363.0 SAND: Gray, fine to coarse grained, moist, medium dense, (A-3) 343.0 SAND: Gray, fine to coarse grained, moist, medium dense, (A-3) 358.5 SAND: Gray, fine to coarse grained, trace fine gravel, moist, medium dense, (A-1) 335.0 5 6 NC -- 6 6 NC -- -80 6																		

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.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	DEPTH (ft)	BL (ft)	UCS (tsf)	MOS (%)
060-0127	B-1	230+49	90 ft LT	415.0					N/A	395.8	394.0	21.0	N/A					
SAND: Gray, fine to coarse grained, trace organics, moist, dense, (A-3) (continued) 7 NC -- 9 NC -- -85 9 Medium dense, no organics 25 NC -- 15 NC -- -105 12 Trace fine gravel 12 NC -- 12 NC -- -90 17 12 NC -- 12 NC -- -110 15 Fine grained, trace coarse gravel 8 NC -- 7 NC -- -95 7 SAND: Gray, fine to coarse grained, trace fine to coarse gravel, moist, medium dense, (A-1) 318.0 8 NC -- 9 NC -- -100 9 WEATHERED LIMESTONE: Gray No recovery. 312.2 50/3.5 Boring terminated at 113.8 feet. Borehole grouted upon completion. -118																		

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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PLOT DATE = 12/8/2023
DATE - 12/8/2023

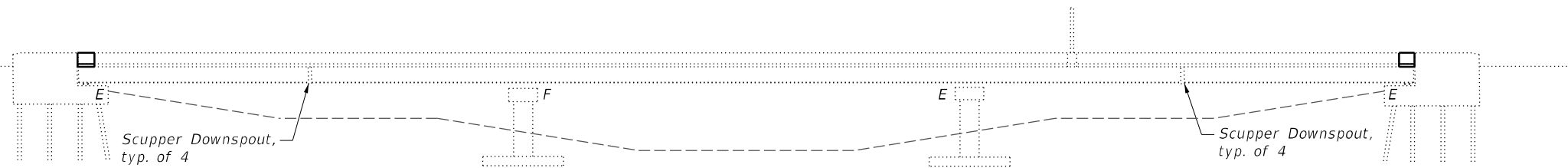
REVISOR -
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REVISION -

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.

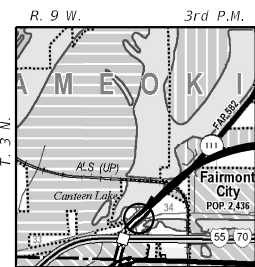
Reinforcement bars designated (E) shall be epoxy coated.

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

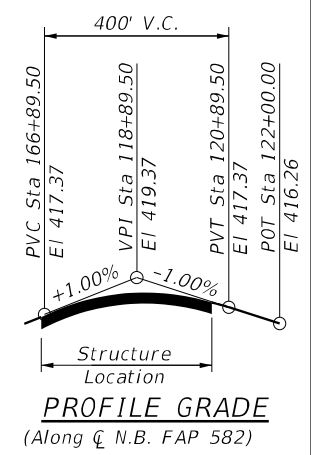
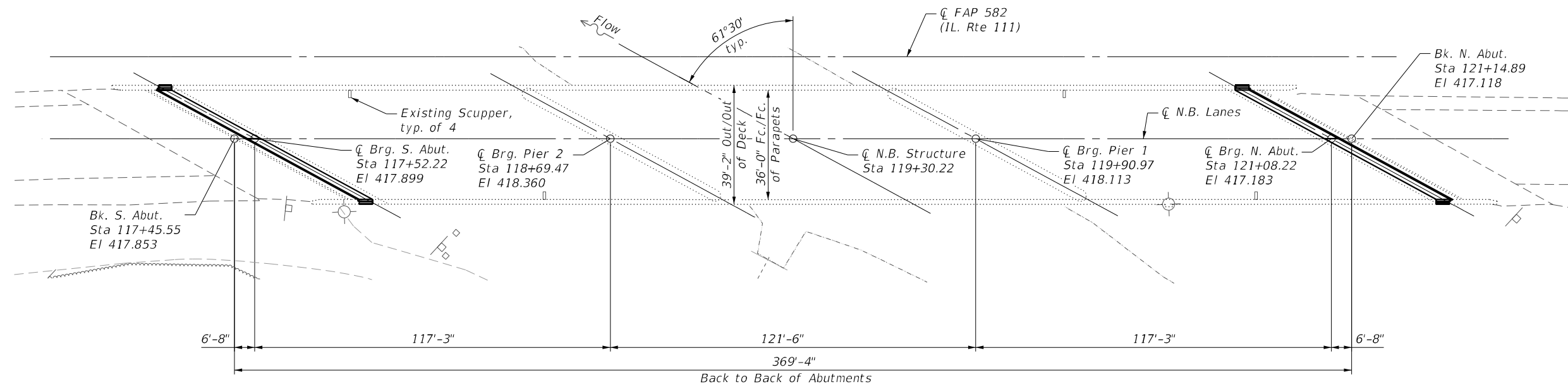
1. General Plan & Elevation
2. Concrete Removal
3. Concrete Construction Details
4. Parapet Details & Bill of Material
5. Joint Repair Details
6. Bar Splicer Assembly & Mechanical Splicer Details

SCOPE OF WORK

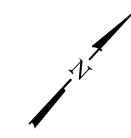
1. Replace joints: Replace with polymer concrete and joint seal. Use Preformed Joint Seal.
2. Clean Scuppers.
3. Clean abutment seats and add concrete sealer.
4. Seal deck.

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

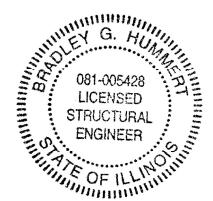


PLAN



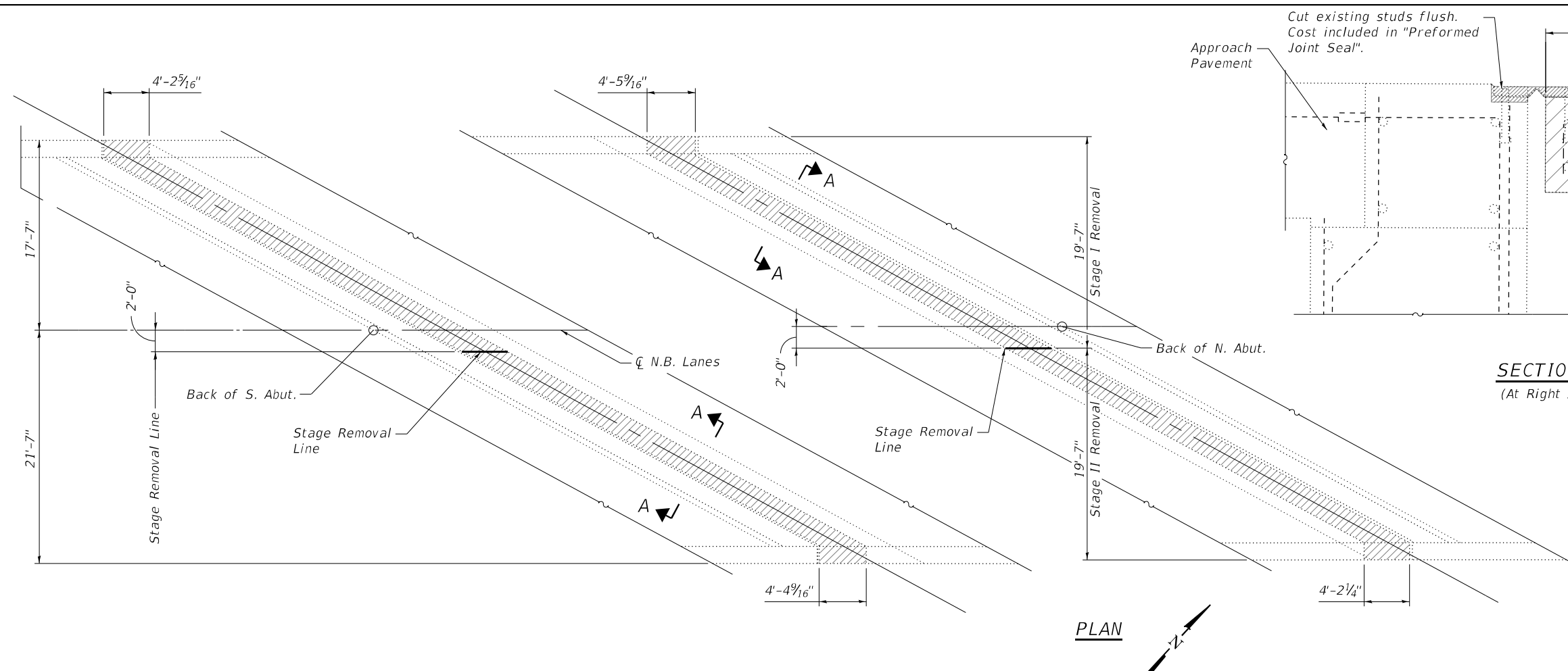
GENERAL PLAN & ELEVATION
 NORTHBOUND IL RTE 111
 OVER CAHOKIA CANAL
 FAP RTE 582 - SECTION 6-23B-1
 MADISON COUNTY
 STATION 119+30.22
 STRUCTURE NO. 060-0244

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

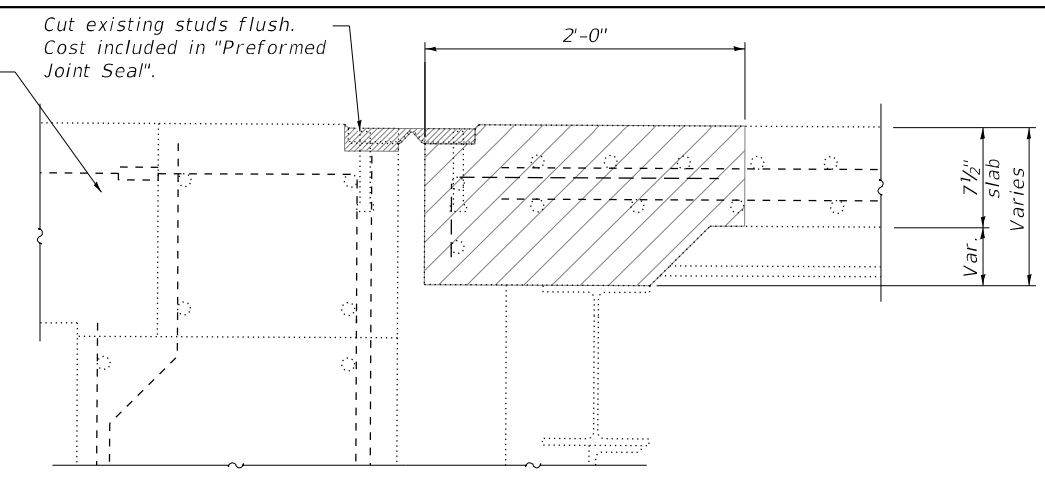


Expires: November 30, 2024

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	ILLINOIS FED. AID PROJECT								

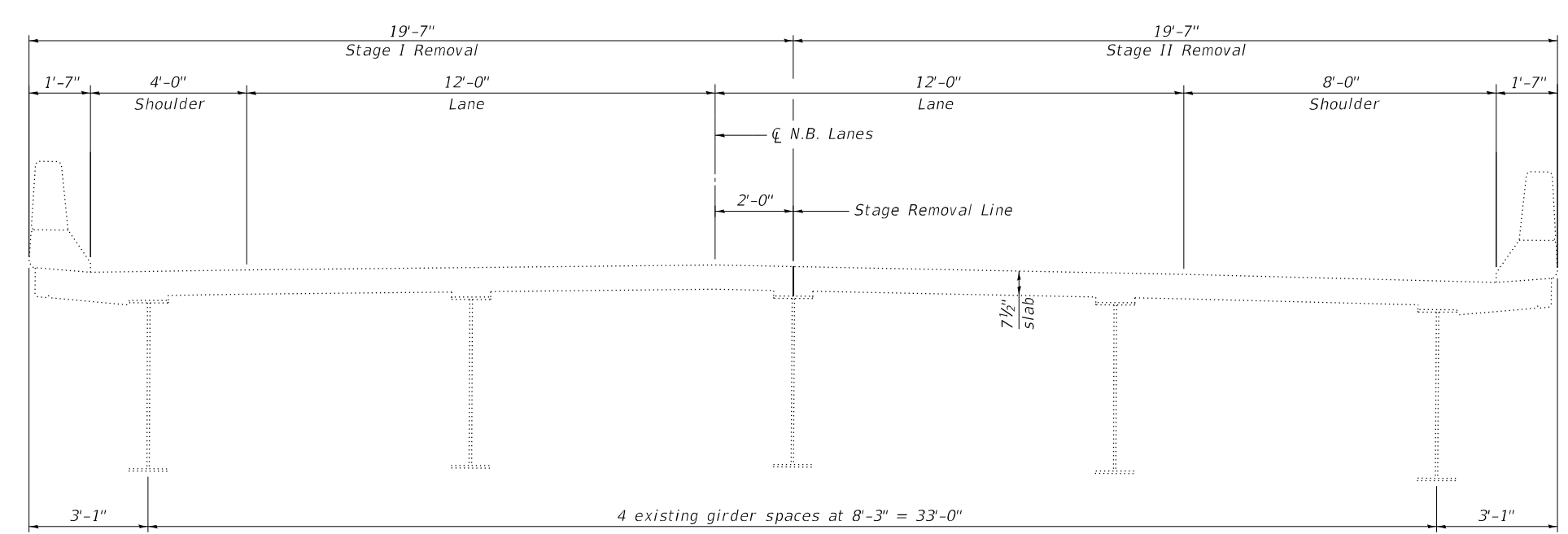


PLAN



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

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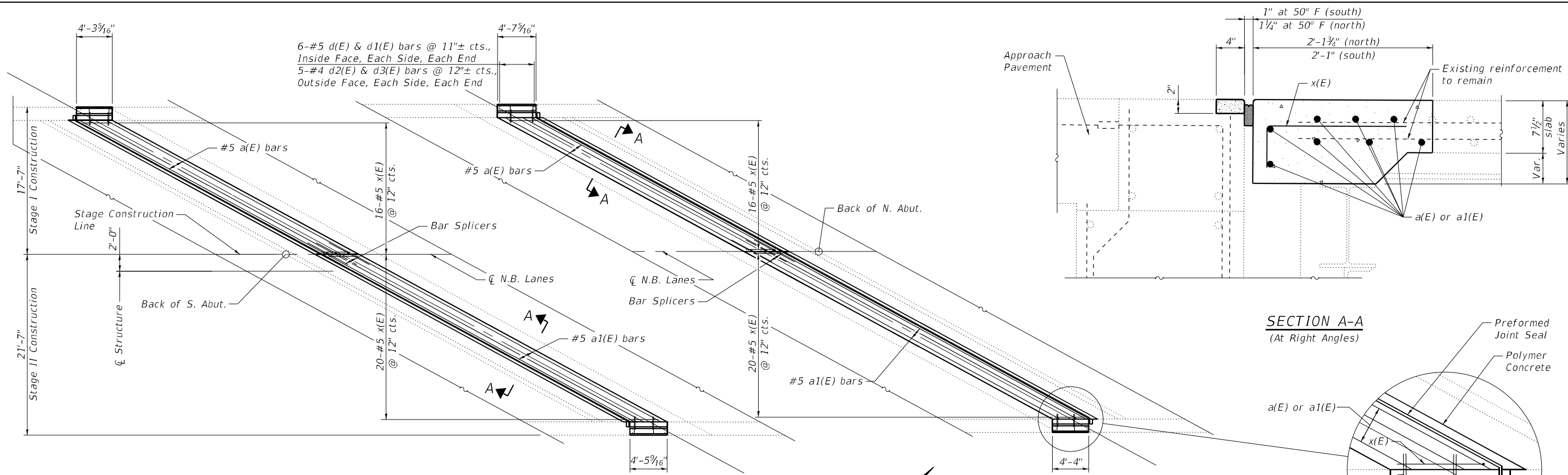
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PLOT DATE = 12/6/2023	CHECKED -	REVISED -
	DATE = 10/17/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE REMOVAL
STRUCTURE NO. 060-0244

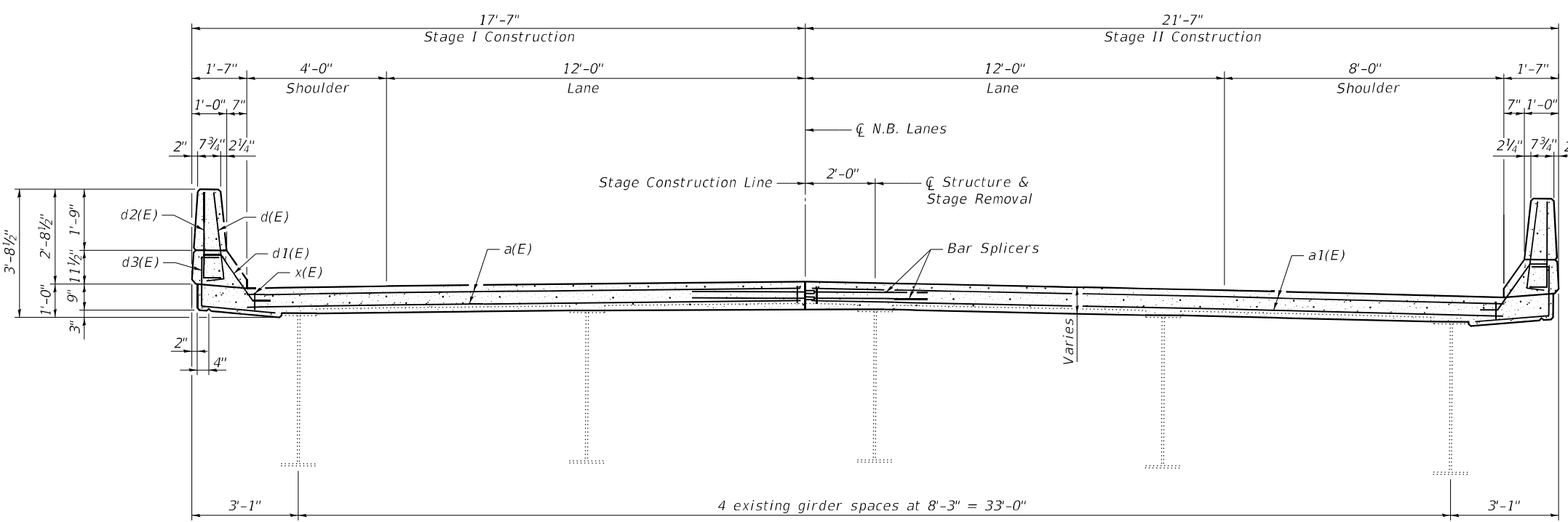
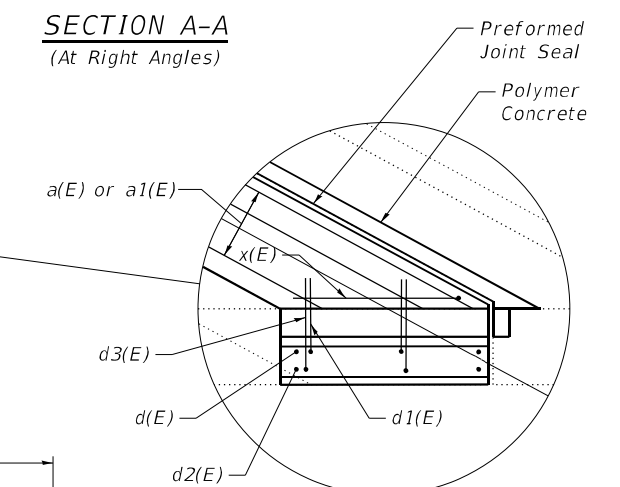
SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

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



PLAN

SECTION A-A
(At Right Angles)



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

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

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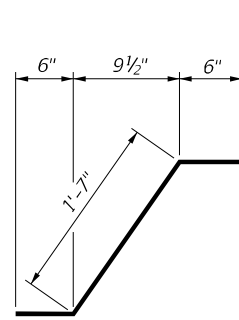
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	DATE = 10/17/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

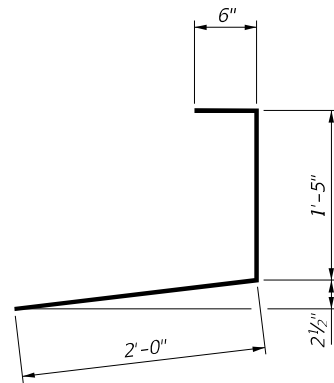
CONCRETE CONSTRUCTION DETAILS
STRUCTURE NO. 060-0244

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

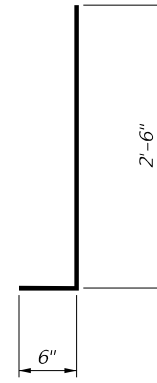
F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 83
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76H49	



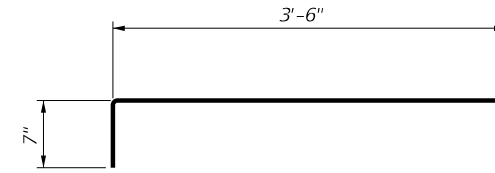
BAR d1(E)



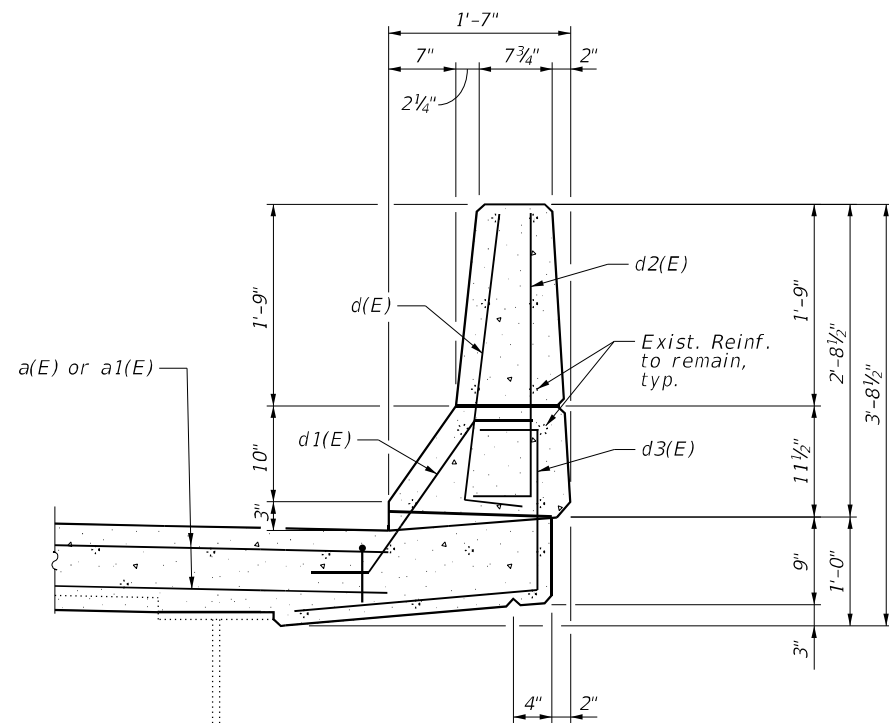
BAR d3(E)



BAR d(E) & d2(E)



BAR x(E)

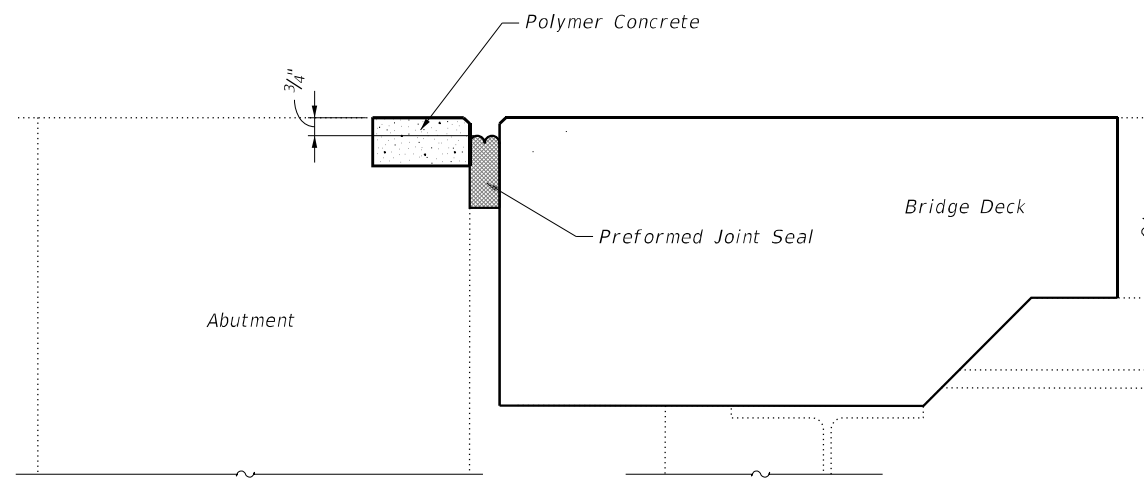


BRIDGE PARAPET DETAIL

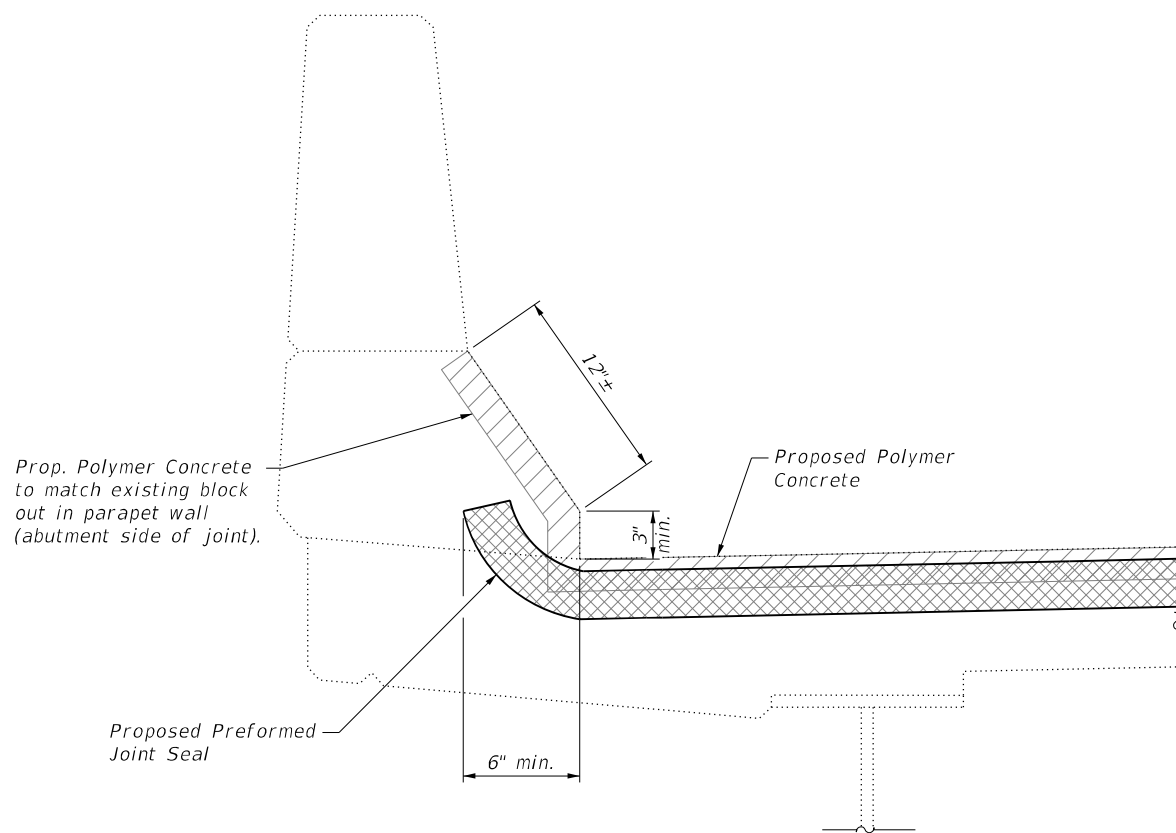
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#5	33'-6"	—
a1(E)	16	#5	41'-11"	—
d(E)	24	#5	3'-0"	J
d1(E)	24	#5	2'-7"	/
d2(E)	20	#4	3'-0"	J
d3(E)	20	#4	3'-11"	J
x(E)	72	#5	4'-1"	┌
Concrete Removal			Cu Yd	13.1
Concrete Superstructure			Cu Yd	13.8
Reinforcement Bars, Epoxy Coated			Pound	1,800
Bar Splicers			Each	16

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PREFORMED JOINT SEAL DETAIL
(At Right Angles to Abutment)



TYPICAL PARAPET CROSS SECTION
JOINT SEAL END TREATMENT

Notes:

1/4" chamfer may be achieved by grinding after Polymer Concrete has cured.

Any steel anchoring studs encountered in the neoprene joint removal area shall be cut off flush with the existing concrete and shall be included in the cost of "Preformed Joint Seal".

JOINT REPAIR BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Polymer Concrete	Cu Ft	8.7
Preformed Joint Seal 1 1/2"	Foot	77
Preformed Joint Seal 3"	Foot	77
Remove Existing Joint	Foot	156

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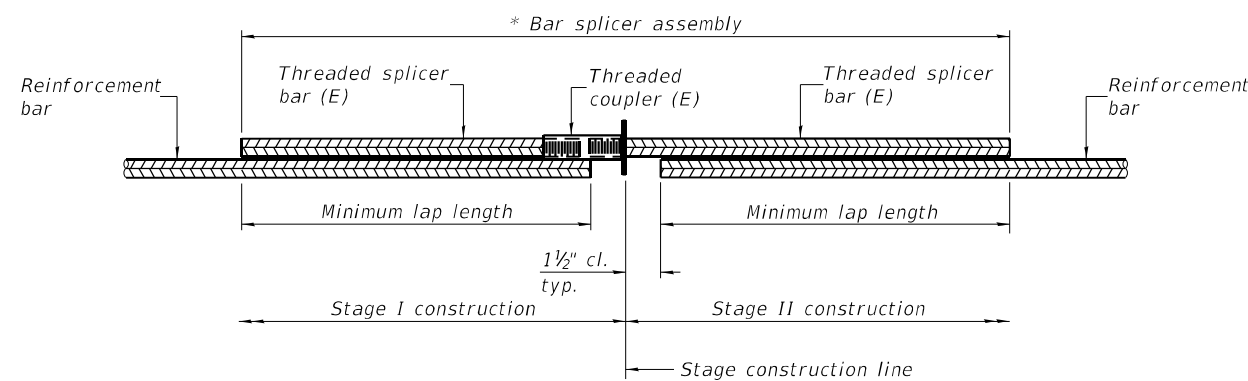
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REPAIR DETAILS
STRUCTURE NO. 060-0244

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

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



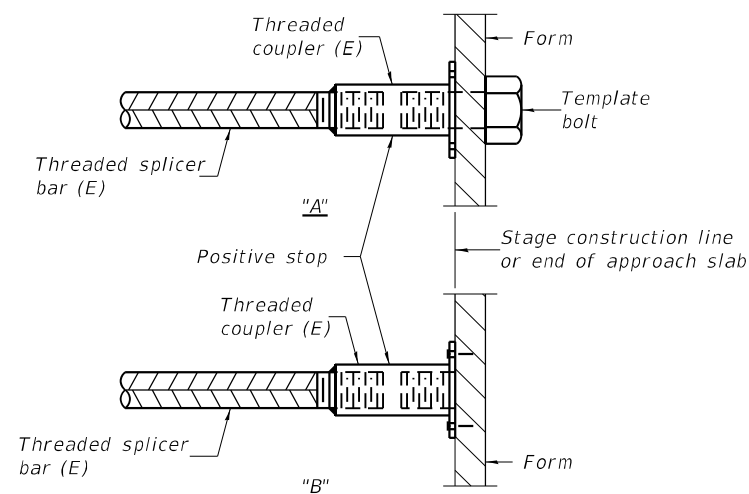
STANDARD BAR SPLICER ASSEMBLY PLAN

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"

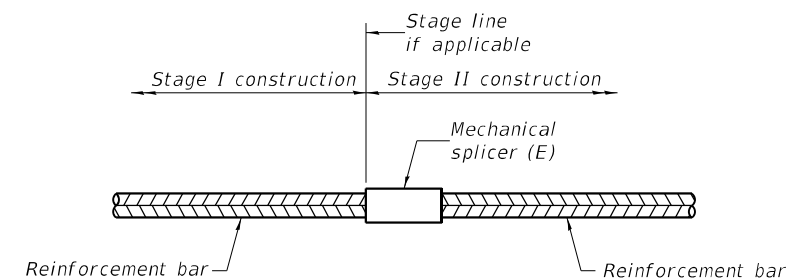


INSTALLATION AND SETTING METHODS

"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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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

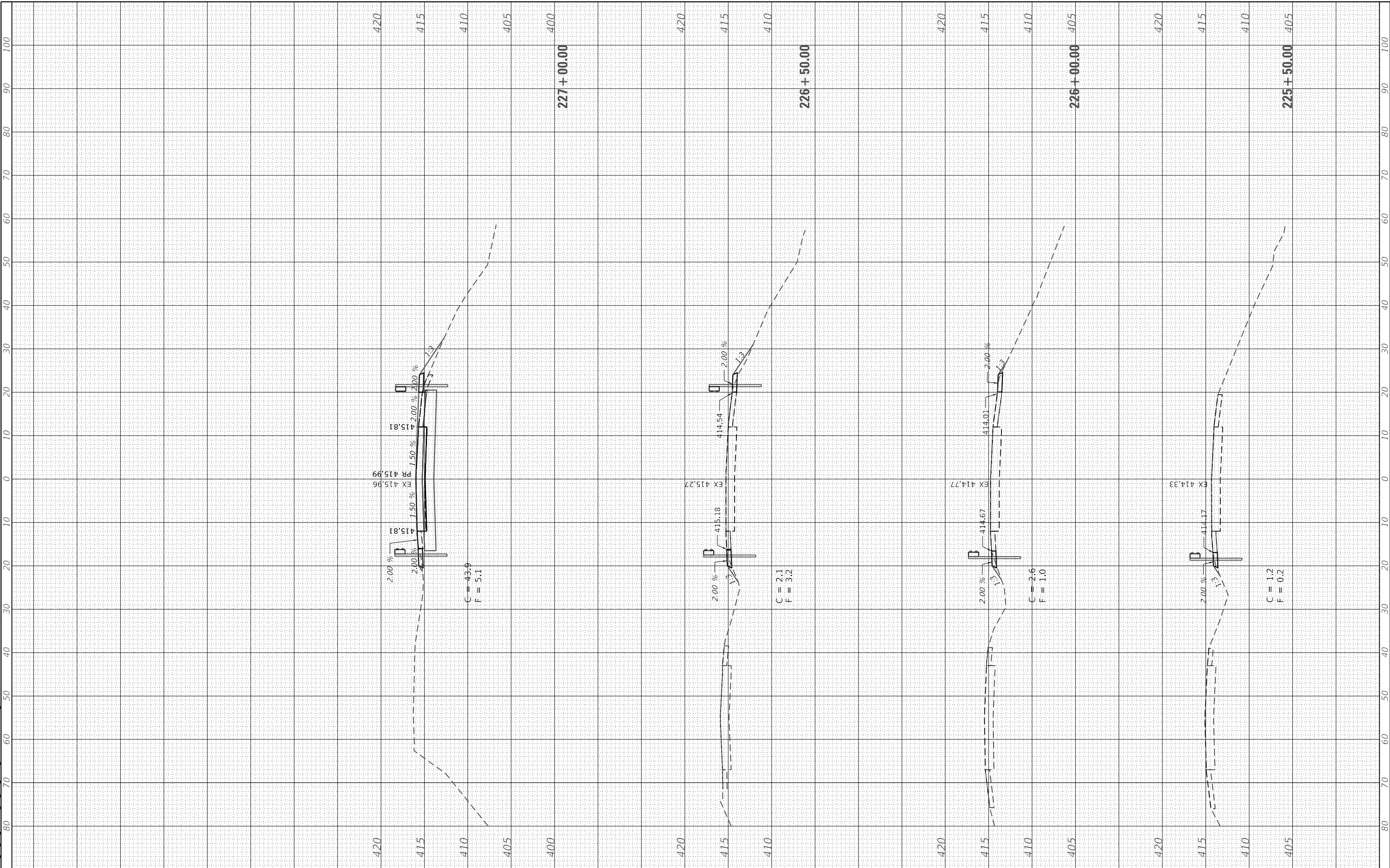
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76H49				ILLINOIS FED. AID PROJECT

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NOTE BOOK	TEMPLATE		
	AREAS CHECKED		

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SB IL 111

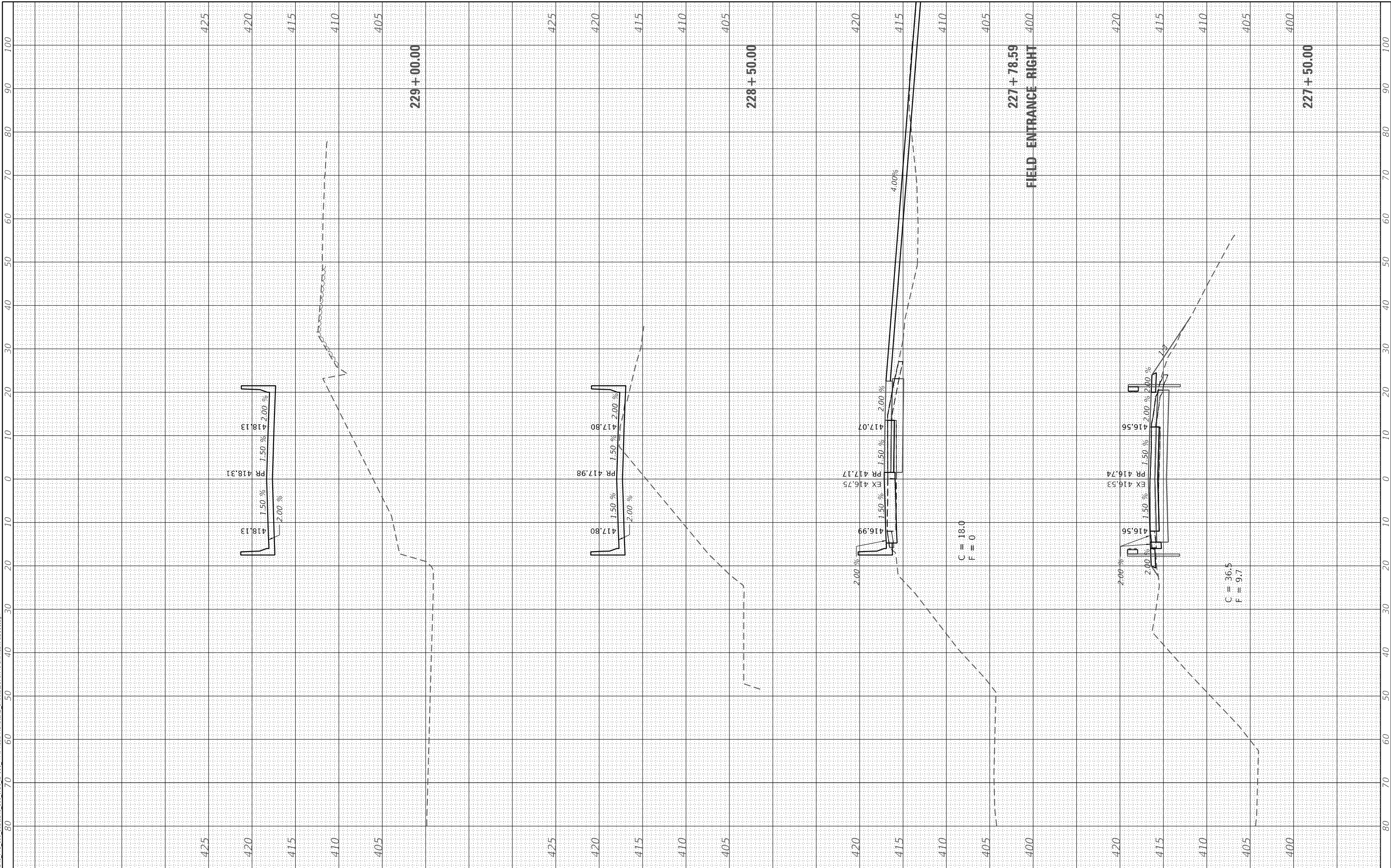
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582	6-23B-1	MADISON	90	85
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

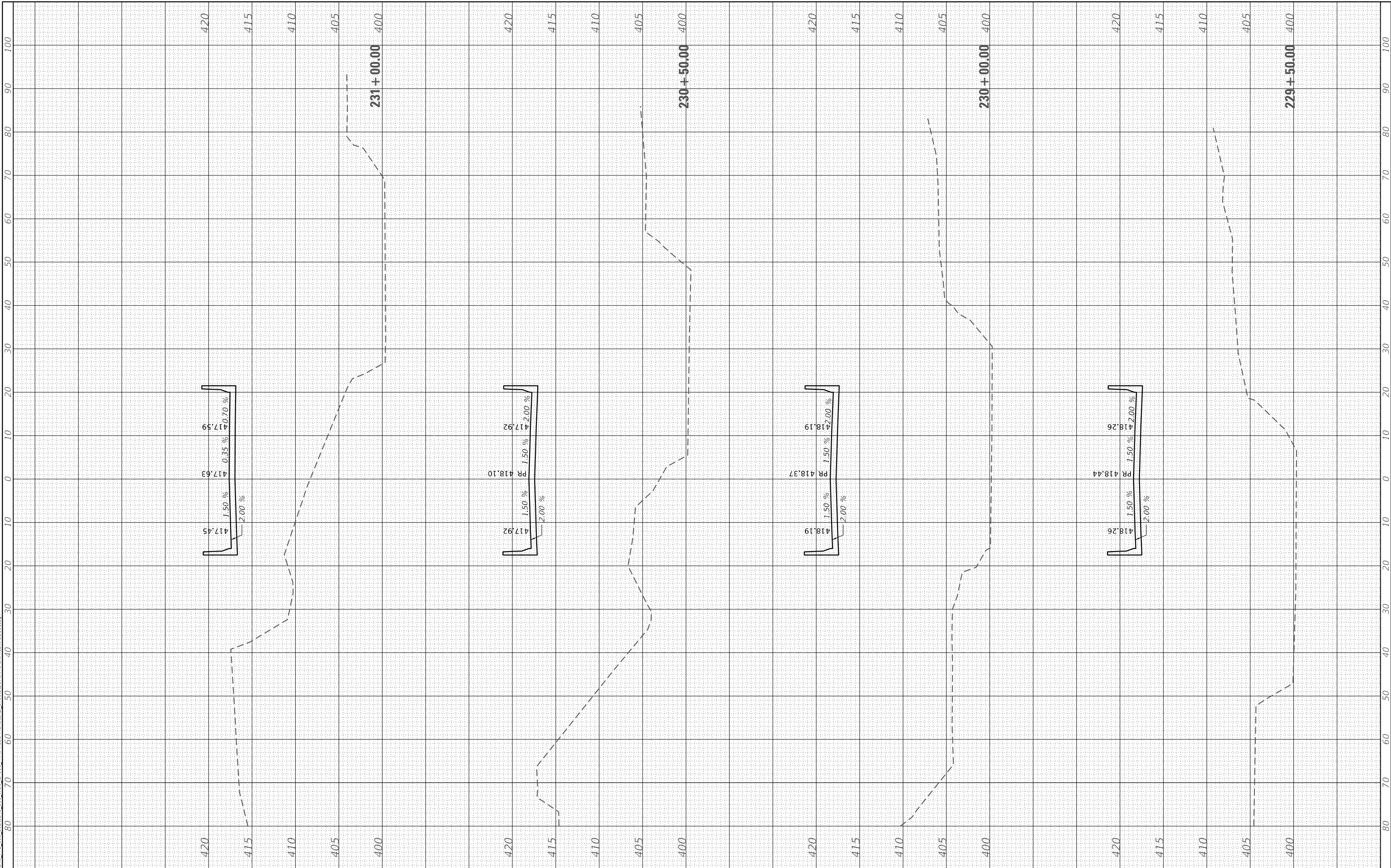
CROSS SECTIONS SB IL 111	
SCALE: 1"=10'V	SHEET 2 OF 5 SHEETS
STA. 227+50.00	TO STA. 229+00.00

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
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	TEMPLATE		
	AREAS CHECKED		

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SB IL 111

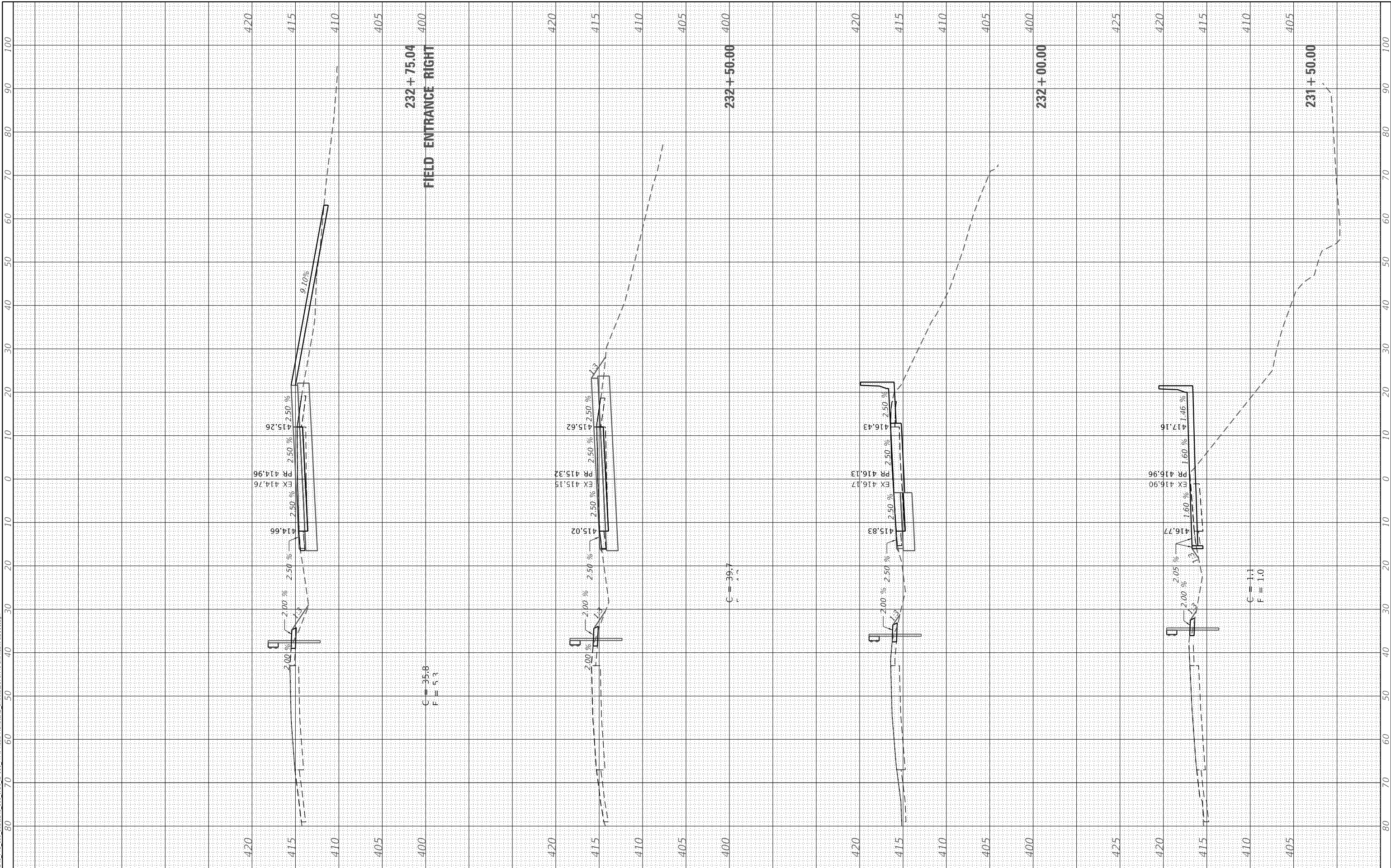
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F.A.P. RTE. 582	SECTION 6-23B-1	COUNTY MADISON	TOTAL SHEETS 90	SHEET NO. 87
CONTRACT NO. 76H49			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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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	BY	DATE
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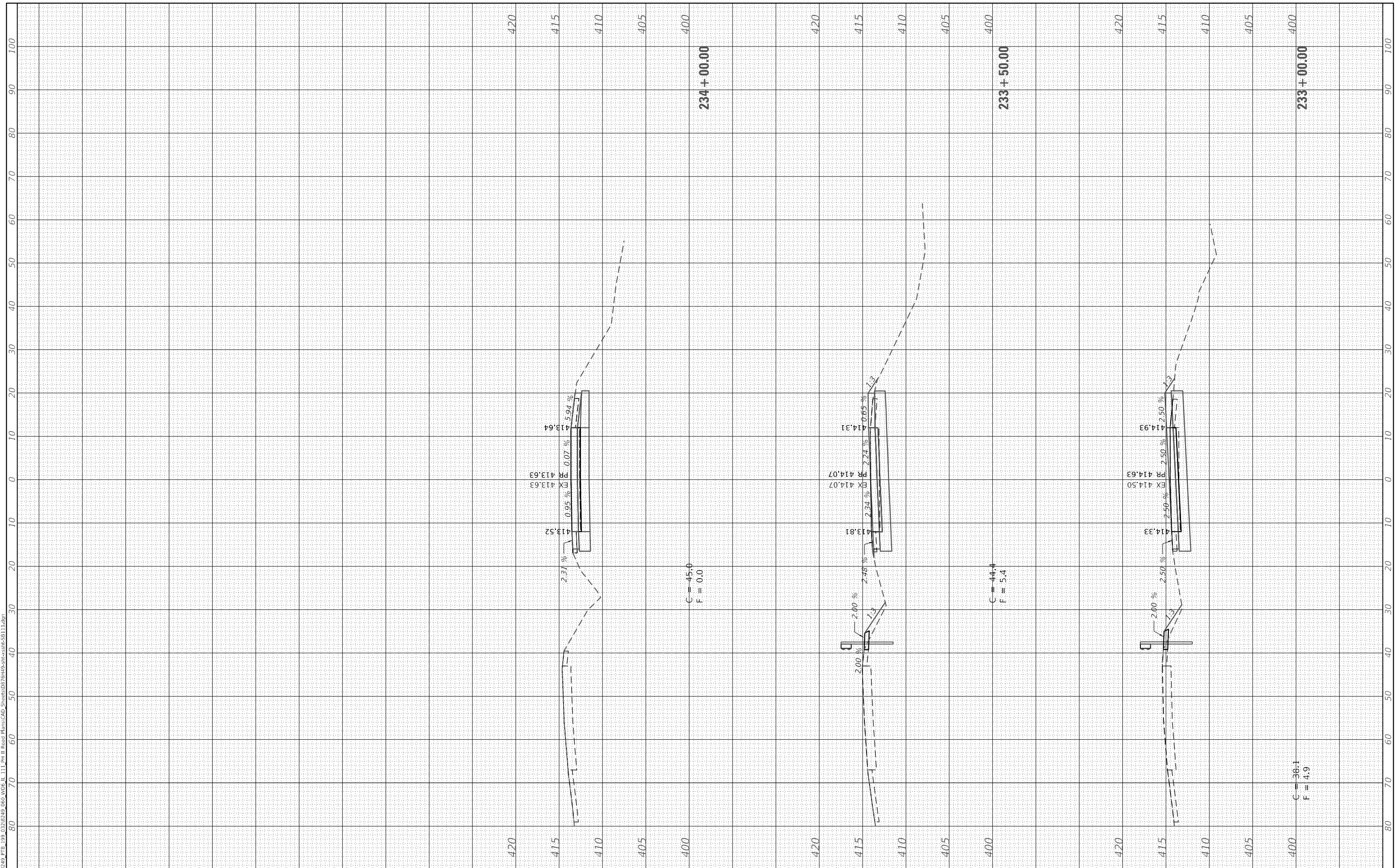
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		DATE -	10/17/23	REVISED -	

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

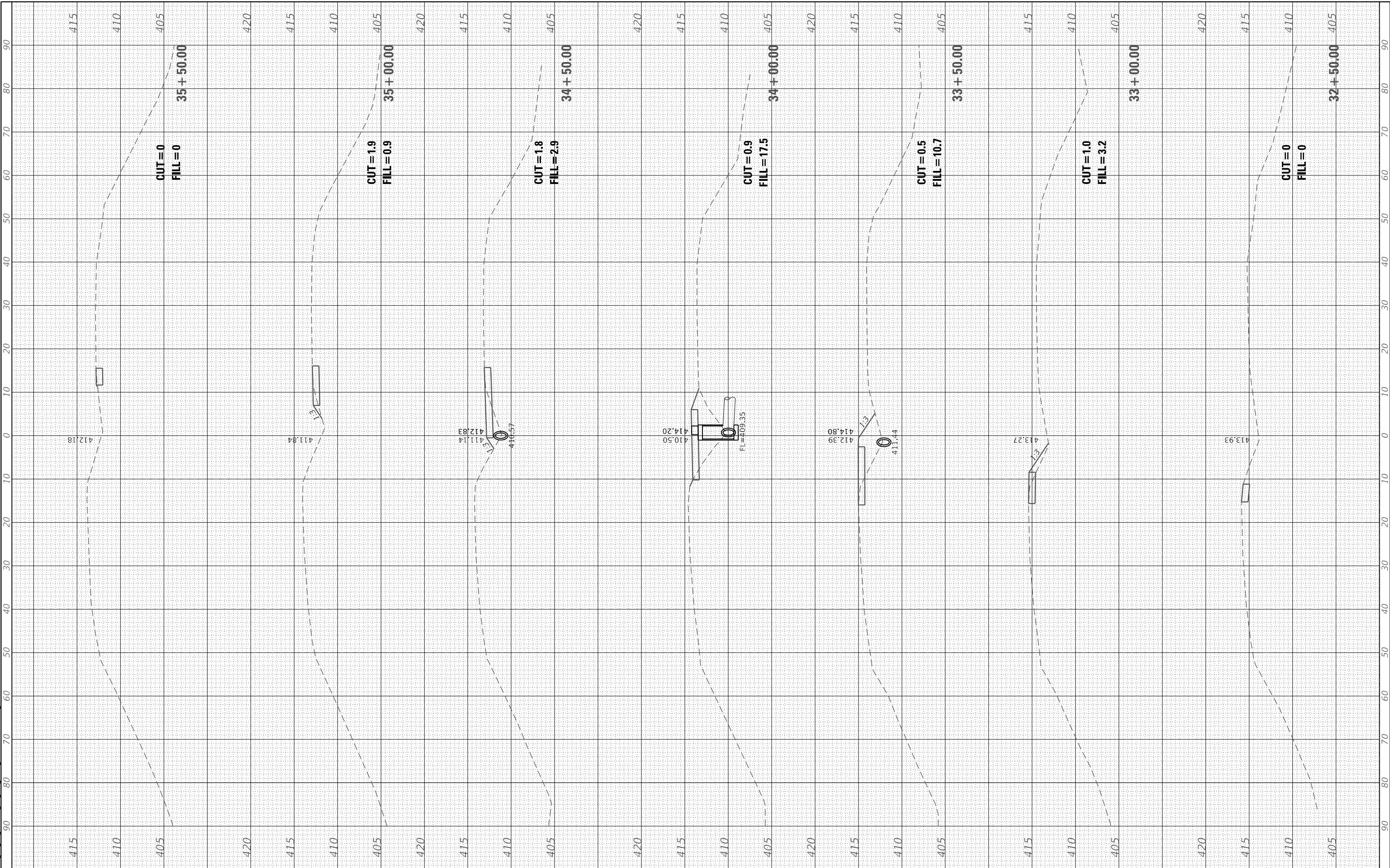
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582	6-23B-1	MADISON	90	89
CONTRACT NO. 76H49				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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