

BY: *Bradley E. Riechmann* DATE: 3/22/22
 HORNER & SHIFRIN, INC.
 SHEETS: 1-28, 42-45, 54-62, 186, 794-798, 800-875
 LICENSE EXPIRES 11-30-2023



BY: *Christopher W. Watts* DATE: 3/22/22
 PARSONS TRANSPORTATION GROUP, INC.
 SHEETS: 63-142
 LICENSE EXPIRES 11-30-2023



BY: *John D. Colwell* DATE: 3/22/22
 AMERICAN SURVEYING & ENGINEERING, P.C.
 SHEETS: 29-31, 143-156, 166-169, 187-192, 799
 LICENSE EXPIRES 11-30-2023



BY: *Michael J. Rosborg* DATE: 3/22/22
 MILLENNIA PROFESSIONAL SERVICES
 SHEETS: 32-34, 157-165
 LICENSE EXPIRES 11-30-2023



BY: *Brian D. Schmidt* DATE: 3/22/2022
 FUHRMANN ENGINEERING, INC.
 SHEETS: 35-36, 170-185
 LICENSE EXPIRES 11-30-2023



BY: *Franklin P. Eppert* DATE: 3/22/22
 ABNA ENGINEERING INC.
 SHEETS: 37-41, 193-204
 LICENSE EXPIRES 11-30-2023



BY: *Eric M. Lagemann* DATE: 3/22/2022
 FUHRMANN ENGINEERING, INC.
 SHEETS: 205-208, 210-213
 LICENSE EXPIRES 11-30-2022



BY: *Theresa M. Berguisi* DATE: 3/22/22
 PARSONS TRANSPORTATION GROUP, INC.
 SHEETS: 209
 LICENSE EXPIRES 11-30-2022

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: TIFFANY BRASE
 PROJECT MANAGER: BILLIE OWEN

CONTRACT NO. 76J90

07-15-2022 SPECIAL LETTING ITEM 01X

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI ROUTE 270 (I-270)
 SECTION 60B-1
 PROJECT NHPP-HBFP-CRP1(462)
 REPLACEMENT OF S.N. 060-0035
 MADISON COUNTY

C-98-284-18

INDEX OF SHEETS

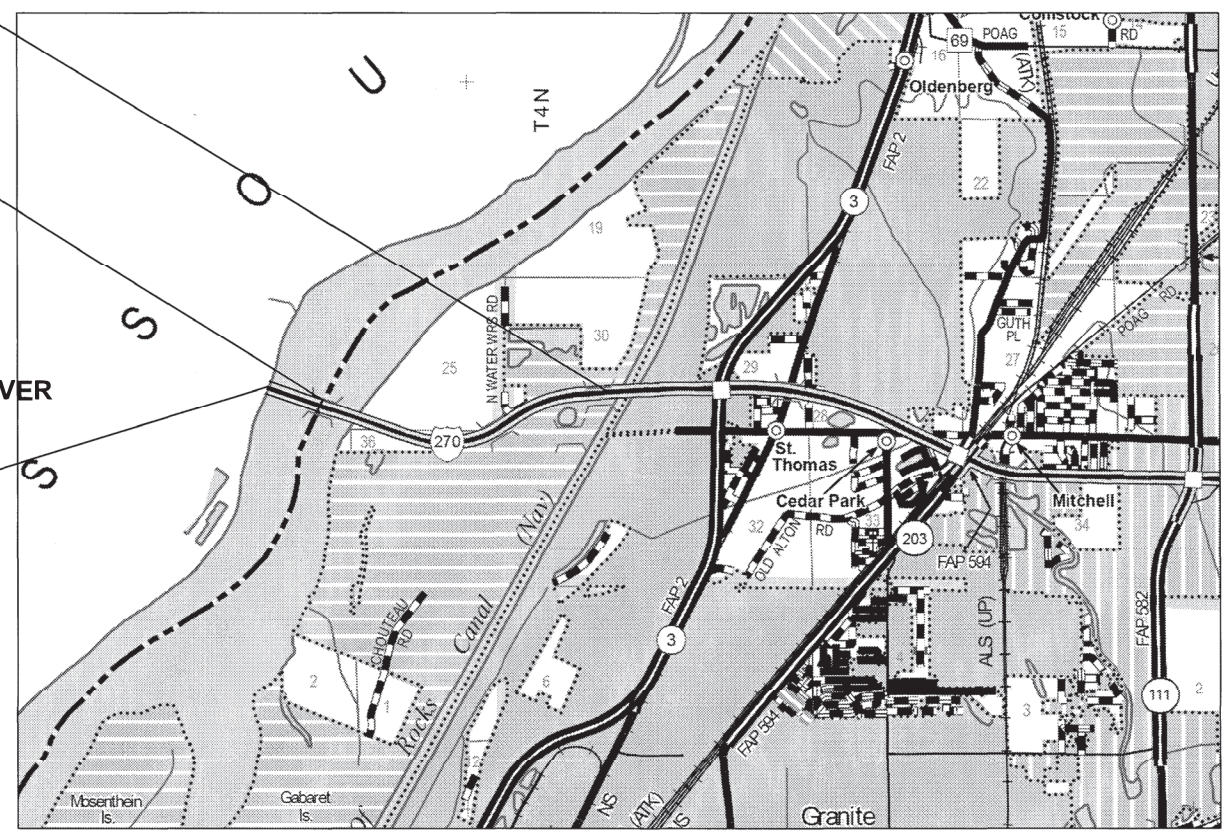
1	COVER SHEET
2	HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
3	SHEET LAYOUT
4-18	SUMMARY OF QUANTITIES
19-26	TYPICAL SECTIONS
27-41	SCHEDULE OF QUANTITIES
42-45	ALIGNMENT, TIES, AND BENCHMARKS
46-53	PLAT OF HIGHWAYS
54-62	PLAN & PROFILE SHEETS
63-142	SUGGESTED MAINTENANCE OF TRAFFIC CONTROL
143-156	EROSION CONTROL PLANS
157-161	DRAINAGE PLANS
162-165	DRAINAGE PROFILES
166-169	REMOVAL PLANS
170-178	PAVEMENT MARKING & SIGNING PLAN
179-186	SIGN DETAILS
187-192	LANDSCAPE PLANS
* 193-204	LIGHTING AND ITS PLANS
205-213	SIGN STRUCTURE PLANS
214-505	BRIDGE PLANS SN-060-0350
506-793	BRIDGE PLANS SN-060-0351
794-799	MISCELLANEOUS DETAILS
800-875	CROSS SECTIONS

* INCLUDES SHEET 200A

END PROJECT
 STA 905+08.52
 LAT. 38.76572
 LONG. -90.13856

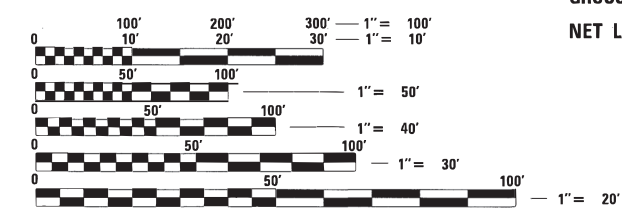
SN 060-0035 (E)
 SN 060-0350 (P) EB
 STA . 779+94.26
 5456.5'
 SN 060-0351 (P) WB
 STA. 779+94.26
 5456.5'
 OVER MISSISSIPPI RIVER

BEGIN PROJECT
 STA 779+65.28
 LAT. 38.76622
 LONG. -90.18013



LOCATION MAP

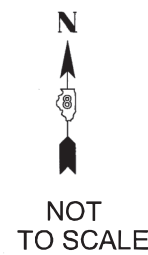
GROSS LENGTH = 12,538.85 FT. = 2.375 MILE
 NET LENGTH = 12,538.85 FT. = 2.375 MILE



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.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	60B-1	MADISON	875*	1
ILLINOIS			CONTRACT NO. 76J90	
* 875 + 1 = 876 TOTAL SHEETS				

D-98-001-18



FUNCTIONAL CLASSIFICATION
 FAI 270 = INTERSTATE
 ADT = 51,000 (2016); 56,900 (2030)
 P.V. = 79.8% S.U. = 2.5% M.U. = 17.7%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED *April 13, 2022*
Kirk H. Brown
 REGIONAL ENGINEER

June 10, 2022 *John A. Etkin*
 ENGINEER OF DESIGN AND ENVIRONMENT

June 10, 2022 *Stephen M. Smith*
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

90% FED 10% STATE

SUMMARY OF QUANTITIES				CONSTRUCTION CODE		
				ROADWAY 0004 URBAN F.A.I. 270	BRIDGE 0010 URBAN S.N. 060-0350	BRIDGE 0010 URBAN S.N. 060-0351
CODE NO	ITEM	UNIT	TOTAL			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	8157	8157		
28000305	TEMPORARY DITCH CHECKS	FOOT	620	620		
28000400	PERIMETER EROSION BARRIER	FOOT	21313	21313		
28000510	INLET FILTERS	EACH	95	95		
28100107	STONE RIPRAP, CLASS A4	SQ YD	14645	14645		
28100111	STONE RIPRAP, CLASS A6	SQ YD	17095	11222	5873	
28200200	FILTER FABRIC	SQ YD	31740	14645	11222	5873
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	71194	71194		
31200100	STABILIZED SUBBASE 4"	SQ YD	71194	71194		
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	1528	1528		
42100340	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 12"	SQ YD	39642	39642		
42100615	PAVEMENT REINFORCEMENT	SQ YD	39642	39642		
42101030	WIDE FLANGE BEAM TERMINAL JOINT COMPLETE 36'	EACH	2	2		
42101300	PROTECTIVE COAT	SQ YD	81229	81229		

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USER NAME = PWICSS
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DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
 SUMMARY OF QUANTITIES
 SCALE: SHEET 2 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	5
CONTRACT NO. 76J90			ILLINOIS FED. AID PROJECT	

REVISED 7-5-2022

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				URBAN	URBAN	URBAN
F.A.I. 270	S.N. 060-0350	S.N. 060-0351				
* 81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	560	560		
* 81100500	CONDUIT ATTACHED TO STRUCTURE, 1 1/2" DIA., GALVANIZED STEEL	FOOT	280		180	100
* 81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	80		40	40
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	21600		10800	10800
* 81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	2		1	1
* 81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	8		4	4
* 81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	14	14		
* 81603112	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	14125	14125		
* 81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	12050		6025	6025
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	40804	16704	12050	12050
* 8211007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	146	70	39	37
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	146	70	39	37
* 83060450	LIGHT POLE, GALVANIZED STEEL, 45 FT. M.H., 15 FT. MAST ARM	EACH	59		30	29
* 83060550	LIGHT POLE, GALVANIZED STEEL, 50 FT. M.H., 15 FT. MAST ARM	EACH	71	70		1
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	511	504		7

* SPECIALTY ITEM

△ REVISED 7-5-2022

△ REVISED 6-22-2022

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270 SUMMARY OF QUANTITIES			
SCALE:	SHEET 11	OF 15 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	14
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CONSTRUCTION CODE

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE		
				ROADWAY 0004 URBAN F.A.I. 270	BRIDGE 0010 URBAN S.N. 060-0350	BRIDGE 0010 URBAN S.N. 060-0351
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	1	1		
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	52	52		
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	45		22	23
84200804	REMOVAL OF POLE FOUNDATION	EACH	54	54		
△ 2 * 87300925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	11170	11170		
X0301847	WATER TRANSPORTATION FOR ENGINEER	CAL MO	40		20	20
△ 2 * 89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	2	2		
* X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	3	2		1
X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	11868		5912	5956
X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	150		75	75
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	1	1		
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	18	18		
* X0324256	FIBER OPTIC CABLE SPLICE	EACH	1	1		
△ 2 * X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	3	3		
* X0325464	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE II-F-A	FOOT	20.5	20.5		
△ 2 * X0325077	FIBER OPTIC UTILITY MAKER	EACH	24	24		
* X0327121	CAMERA POLE, 55 FT	EACH	1	1		
△ 2 * X0326812	CAT V ETHERNET CABLE	FOOT	155	155		
X0327357	CONSTRUCTION VIBRATION MONITORING	L SUM	1		0.5	0.5

* SPECIALTY ITEM

△ 2 REVISED 7-5-2022

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
SUMMARY OF QUANTITIES

SCALE: SHEET 12 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	15
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				URBAN	URBAN	URBAN
F.A.I. 270	S.N. 060-0350	S.N. 060-0351				
X6024503	INLETS TO BE ADJUSTED WITH NEW FRAME AND GRATE (SPECIAL)	EACH	4	4		
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	4256	4256		
X6660117	REMOVE AND REERECT RIGHT OF WAY MARKERS	EACH	1	1		
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	48	10	19	19
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2	0.4	0.4
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	231283	231283		
* X8710075	FIBER OPTIC CABLE IN CONDUIT, 72 COND. S.M. F.O.	FOOT	11170	11170.0		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	219	219		
Z0007601	BUILDING REMOVAL NO. 1	L SUM	1	1		
Z0010615	CLEANING EXISTING INLETS	EACH	8	8		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.4	0.4
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	3240	3240		
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	166	85	81	
Z0021500	EXPANSION JOINT 3"	FOOT	74	74		



* SPECIALTY ITEM

△ REVISED 7-5-2022

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI-270 SUMMARY OF QUANTITIES			
SCALE:	SHEET 14	OF 15 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	17
CONTRACT NO. 76J90			ILLINOIS FED. AID PROJECT	

90% FED 10% STATE

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0004	0010	0010
				URBAN	URBAN	URBAN
F.A.I. 270	S.N. 060-0350	S.N. 060-0351				
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	66537		33363	33174
* Z0033052	COMMUNICATIONS VAULT	EACH	1	1		
Z0034396	MODULAR EXPANSION JOINT 12"	FOOT	132		66	66
Z0034500	MODULAR EXPANSION JOINT 18"	FOOT	116		58	58
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	21977	21977		
∅ Z0076600	TRAINEES	HOUR	3000	3000		
Z0062456	TEMPORARY PAVEMENT	SQ YD	25821	25821		
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	3000	3000		
Z0076870	UNDERDRAIN CONNECTION TO STRUCTURE	EACH	39	39		

2

∅ 0042

2 REVISED 7-5-2022

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
SUMMARY OF QUANTITIES

SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	18
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

INLET FILTERS					
LOCATION					INLET FILTERS
	STATION			SIDE	EACH
FAI - 270 STAGE 1A	2837+82	TO	--	LT	2
	2840+81	TO	--	LT	2
	2842+31	TO	--	LT	1
	2846+30	TO	--	LT	2
	2860+84	TO	--	RT	1
	2863+32	TO	--	RT	1
	2873+12	TO	--	RT	1
	2883+83	TO	--	RT	1
	2891+55	TO	--	RT	2
	2893+35	TO	--	RT	1
	2895+34	TO	--	RT	2
	2897+35	TO	--	RT	2
	FAI - 270 STAGE 1D	1836+16	TO	--	LT
1838+65		TO	--	LT	2
1841+15		TO	--	LT	2
1843+66		TO	--	LT	2
1845+18		TO	--	LT	1
1846+23		TO	--	LT	2
1848+69		TO	--	LT	2
1851+19		TO	--	LT	2
1853+70		TO	--	LT	2
1854+81		TO	--	LT	2
1854+91		TO	--	LT	2
1856+22		TO	--	LT	2
1858+73		TO	--	LT	2
1860+80		TO	--	LT	2
1860+91		TO	--	LT	1
1863+41		TO	--	LT	1
1863+51		TO	--	LT	2
1864+90		TO	--	LT	2
1866+25		TO	--	LT	2
1867+77		TO	--	LT	2
1868+95		TO	--	LT	2
1870+32		TO	--	LT	2
1871+38		TO	--	LT	2
1871+47		TO	--	LT	2
1872+40		TO	--	LT	2
1872+50		TO	--	LT	2
1873+24		TO	--	LT	1
1873+35		TO	--	LT	2
1874+42		TO	--	LT	2
1876+74		TO	--	LT	2
1878+93		TO	--	LT	2
1881+42		TO	--	LT	2
1883+37		TO	--	LT	2
1884+91	TO	--	LT	2	
1886+41	TO	--	LT	2	
1887+90	TO	--	LT	2	
1889+60	TO	--	LT	2	
1891+60	TO	--	LT	2	
1893+39	TO	--	LT	1	
1895+37	TO	--	LT	2	
1897+38	TO	--	LT	2	
TOTAL					95.0

LOCATION		BUILDING REMOVAL NO. 1
STATION	SIDE	L SUM
1837+46	RT	1
TOTAL		1

6/28/22 JC

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PLOT DATE = 6/28/2022	CHECKED -	REVISED -
	DATE - 3/22/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI-270 SCHEDULES OF QUANTITIES			
SCALE: 1" = 50'	SHEET 5 OF 15 SHEETS	STA. N/A	TO STA. N/A

F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 31
			CONTRACT NO. 76J90	
ILLINOIS FED. AID PROJECT				

LIGHTING AND ITS

LOCATION	BL WB FAI 270 STA	OFFSET	LEFT SIDE LIGHTS POLE NO.	LT P GS 45MH 15MA	LT P GS 50MH 15MA	LIGHT POLE FDN 300	LUM LED RDWY G	TRENCH BACKFILL SPL	UNDRGR D C GALVS 4	UNDRGR D C PVC 2	UNDRGRD C PVC 4	CON AT ST 1 1/2 GALVS	CON AT ST 2 GALVS	JUN BX SS AS 16X14X6	JUN BX SS AS 12X12X6	CON EMB STR 2 PVC	HAND HOLE PCC/ COMM VAULT	UD2#6#8G XLPUSE 1.25P	ECC XLP USE 1C 8	ECC XLP USE 1C 6	ECC XLP USE 1C 6 FOR CCTV	BKWY DEV TR B 15BC	CCTV DOME CAMERA HD	CCTV CABINET	CAMERA POLE FT	MODIFY EXISTING CONTROLLER	FO CAB C 72SMFO	ELEC. CAB TRACER	FIB OPTIC SPLICE	CAT 5 EHERNET CABLE	
				EA	EA	FT	EA	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	FT	FT	FT	FT	EA	EA	EA	EA	EA	FT	FT	EA	FT	
WB FAI 270	2779+94	59.7'	C1		1	7	1	104								408		212.6	189	378											
	2779+99	59.8'	C1								140		40	2			1														
	2780+05																														
	2781+83	55.8'	C3	1			1									358			189	378											
	2783+70	55.8'	C5	1			1									358			189	378											
	2785+59	51.1'	C7	1			1									358			189	378											
	2787+44	48.4'	C9	1			1									358			189	378											
	2789+28	47.8'	C11	1			1									358			189	378											
	2791+10	47.8'	C13	1			1									358			189	378											
	2792+93	47.8'	C15	1			1									358			189	378											
	2794+75	47.8'	C17	1			1									358			189	378											
	2796+70	47.8'	C19	1			1									358			189	378											
	2798+52	47.8'	C21	1			1									358			189	378											
	2800+35	47.8'	C23	1			1									358			189	378											
	2802+15	47.8'	C25	1			1									358			189	378											
	2804+05	47.8'	C27	1			1									358			189	378											
	2805+86	47.8'	C29	1			1									358			189	378											
	2806+53																														
	2807+70 TO																														
	2834+50																				8250										
	2807+73	47.8'	C31	1			1									358	1		189	378			1	1							45
	2809+57	47.8'	C33	1			1					12				358			189	378											
	2809+60														1																
	2809+67	47.57 L	L8				1					11																			
	2809+78	47.57 L	L7				1					11																			
	2809+89	47.57 L	L6				1					11																			
	2810+00	47.57 L	L5				1					11																			
	2810+11	47.57 L	L4				1					11																			
	2810+23	47.57 L	L3				1					11																			
	2810+34	47.57 L	L2				1					11																			
	2810+45	47.57 L	L1				1					11																			
	2811+50	47.8'	C35	1			1									358			189	378											
	2813+30	47.8'	C37	1			1									358			189	378											
	2815+11	47.8'	C39	1			1									358			189	378											
	2816+95	47.8'	C41	1			1									358			189	378											
	2818+91	47.8'	C43	1			1									358			189	378											
	2820+75	47.8'	C45	1			1									358			189	378											
	2822+59	47.8'	C47	1			1									358			189	378											
	2824+40	47.8'	C49	1			1									358			189	378											



USER NAME = muddin	DESIGNED - MJC	REVISED -
	DRAWN - FPE	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - JMO	REVISED -
PLOT DATE = 6/27/2022	DATE - 3/01/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
SCHEDULE OF QUANTITIES

SCALE: SHEET 12 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	38
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

LIGHTING AND ITS

LOCATION	BL WB FAI 270 STA	OFFSET	LEFT SIDE LIGHTS POLE NO.	LT P GS 45MH 15MA	LT P GS 50MH 15MA	LIGHT POLE FDN ROD	LUM LED RDWY G	TRENCH BACKFILL SPL	UNDRGR D C GALVS 4	UNDRGR DC PVC 2	UNDRGRD C PVC 4	CON AT ST 1 1/2 GALVS	CON AT ST 2 GALVS	JUN BX SS AS 16X14X6	JUN BX SS AS 12X12X6	CON EMB STR 2 PVC	HAND HOLE PCC/ COMM VAULT	UD2#6#8G XLP USE 1.25P	ECC XLP USE 1C 8	ECC XLP USE 1C 6	ECC XLP USE 1C 6 FOR CCTV	BKWY DEV TR B 15BC	CCTV DOME CAMERA HD	CCTV CABINET	CAMERA POLE 55 FT	MODIFY EXISTING CONTROLLER	FO CAB C 72 SM FO	ELEC. CAB TRACER	FIB OPTIC SPLICER	CAT 5 EHERNET CABLE		
				EA	EA	FT	EA	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	FT	FT	FT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
WB FAI 270	2826+19	47.8'	C51	1			1									358			189	378							170	170				
	2828+06	47.8'	C53	1			1									358			189	378							170	170				
	2829+92	47.8'	C55	1			1									358			189	378							170	170				
	2831+83	47.8'	C57	1			1									358			189	378							170	170				
	2833+62	47.8'	C59	1			1									358			189	378							170	170				
	2834+58										140																					
	2834+72	54.9'	C61														1															
	2835+07	56.'	C61														1															
	2835+17	54.'	C61														1															
	2835+65	56.'	C61		1	7	1	104						2				197.2	10	20												
	2837+66	55.8'	C63		1	7	1	104										197.2	10	20												
	2839+65	55.7'	C65		1	7	1	104										197.2	10	20												
	2841+66	56.2'	C67		1	7	1	104										197.2	10	20												
	2843+66	55.4'	C69		1	7	1	104										197.2	10	20												
	2845+66	56.'	C71		1	7	1	104										197.2	10	20												
	2847+66	56.3'	C73		1	7	1	104										197.2	10	20												
	2849+66	56.1'	C75		1	7	1	104										197.2	10	20												
	2851+66	56.'	C77		1	7	1	104										197.2	10	20												
	2853+66	56.2'	C79		1	7	1	104										197.2	10	20												
	2855+65	55.7'	C81		1	7	1	104										197.2	10	20												
	2857+66	55.8'	C83		1	7	1	104										197.2	10	20												
	2859+66	56.50	C85		1	7	1	104										197.2	10	20												
	2861+66	56.30	C87		1	7	1	104										197.2	10	20												
	2863+66	55.90	C89		1	7	1	104										197.2	10	20												
	2865+66	56.00	C91		1	7	1	104										197.2	10	20												
	2867+65	55.60	C93		1	7	1	104										197.2	10	20												
	2869+65	56.10	C95		1	7	1	104										197.2	10	20												
	2871+65	56.00	C97		1	7	1	104										200.4	10	20												
	2873+65	55.90	C99		1	7	1	104										200.4	10	20												
	2875+65	55.8'	C101		1	7	1	104										200.4	10	20												
	2877+65	56.'	C103		1	7	1	104										200.4	10	20												
	2879+65	55.8'	C105		1	7	1	104										200.4	10	20												
	2881+65	56.3'	C107		1	7	1	104										200.4	10	20												
	2883+65	56.'	C109		1	7	1	104										200.4	10	20												
	2885+65	56.5'	C111		1	7	1	104										200.4	10	20												
	2887+65	56.'	C113		1	7	1	104										200.4	10	20												
	2889+65	55.7'	C115		1	7	1	104										200.4	10	20												
	2891+65	56.7'	C117		1	7	1	104										200.4	10	20												
	2893+65	56.'	C119		1	7	1	104										200.4	10	20												
	2895+65	55.9'	C121		1	7	1	104										200.4	10	20												
	2897+65	62.5'	C123		1	7	1	104										200.4	10	20												
	2899+65	56.'	C125		1	7	1	104										200.4	10	20												
	2901+65	55.'	C127		1	7	1	104										200.4	10	20												
	2903+65	50.3'	C129		1	7	1											200.4	10	20												
	2904+93	59.3'			1	7	1											200.4	10	20												

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REV. 06/28/22



USER NAME = muddin	DESIGNED - MJC	REVISED -
	DRAWN - FPE	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - JMO	REVISED -
PLOT DATE = 6/27/2022	DATE - 3/01/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
SCHEDULE OF QUANTITIES**

SCALE: SHEET 13 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	39
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

FILE NAME = J:\2017\0857\Cood\Design\0876-98-int-light-Schedule.dgn

LIGHTING AND ITS

LOCATION	BL EB FAI 270 STA	OFFSET	LEFT SIDE LIGHTS POLE NO.	LT P GS 45MH 15MA	LT P GS 50MH 15MA	LIGHT POLE FDN 30D	LUM LED RDWY G	TRENCH BACKFILL SPL	UNDRGR DC GALVS 4	UNDRGR E C PVC 2	UNDRGRD C PVC 4	CON AT ST 1 1/2 GALVS	CON AT ST 2 GALVS	JUN BX SS AS 16X14X6	JUN BX SS AS 12X12X6	CON EMB STR 2 PVC	HAND HOLE PCC/ COMM VAULT	UD2#6#8G XLP USE 1.25P	ECC XLP USE 1C 8	ECC XLP USE 1C 6	ECC XLP USE 1C 6 FOR CCTV	BKWY DEV TR B 15BC	CCTV DOME CAMERA HD	CCTV CABINET	CAMERA POLE 55 FT	MODIFY EXISTING CONTROLLE R	FOCAB C 72 9M FO	ELEC. CAB TRACER	FIB OPTIC SPLICE	CAT 5 EHERNET CABLE	
				EA	EA	FT	EA	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	FT	FT	FT	EA	EA	EA	EA	EA	EA	FT	FT	EA	FT	
EB FAI 270	1779+48	64.5'															1														
	1779+84										140		40	2																	
	1780+00	55.8'	C2	1			1									358			189	378											
	1781+84	55.1'	C4	1			1									358			189	378											
	1783+70	55.8'	C6	1			1									358			189	378											
	1785+55	55.8'	C8	1			1									358			189	378											
	1787+40	52.2'	C10	1			1									358			189	378											
	1789+25	47.8'	C12	1			1									358			189	378											
	1791+10	47.8'	C14	1			1									358			189	378											
	1792+92	47.8'	C16	1			1									358			189	378											
	1794+80	47.8'	C18	1			1									358			189	378											
	1796+65	47.8'	C20	1			1									358			189	378											
	1798+47	47.8'	C22	1			1									358			189	378											
	1800+35	47.8'	C24	1			1									358			189	378											
	1802+20	47.8'	C26	1			1									358			189	378											
	1804+05	47.8'	C28	1			1									358			189	378											
	1805+85	47.8'	C30	1			1									358			189	378											
	1807+78	47.8'	C32	1			1									358			189	378											
	1809+33																														
	1809+38	11.57 L	L8				1					11																			
	1809+49	11.57 L	L7				1					11																			
	1809+60	11.57 L	L6				1					11																			
	1809+62	47.75	C34	1			1					92			358			189	378												
	1809+71	11.57 L	L5				1					11																			
	1809+82	11.57 L	L4				1					11																			
	1809+93	11.57 L	L3				1					11																			
	1810+05	11.57 L	L2				1					11																			
	1810+16	11.57 L	L1				1					11																			
	1811+49	47.75	C36	1			1								358			189	378												
	1813+30	47.8'	C38	1			1								358			189	378												
	1815+19	47.8'	C40	1			1								358			189	378												
	1817+05	47.8'	C42	1			1								358			189	378												
	1818+85	47.8'	C44	1			1								358			189	378												
	1820+70	47.8'	C46	1			1								358			189	378												
	1822+55	47.8'	C48	1			1								358			189	378												
	1824+40	47.8'	C50	1			1								358			189	378												
	1826+29	47.8'	C52	1			1								358			189	378												
	1828+10	47.8'	C54	1			1								358			189	378												
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	1831+80	47.8'	C58	1			1								358			189	378												
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REV. 06/28/22



USER NAME = muddin	DESIGNED - MJC	REVISED -
	DRAWN - FPE	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - JMO	REVISED -
PLOT DATE = 6/27/2022	DATE - 3/01/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
SCHEDULE OF QUANTITIES**

SCALE: SHEET 14 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	40
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

LIGHTING AND ITS

LOCATION	BLEB FAI 270 STA	OFFSET	LEFT SIDE LIGHTS POLE NO.	LT P GS 45MH 15MA	LT P GS 50MH 15MA	LIGHT POLE FDN 30D	LUM LED RDWY G	TRENCH BACKFILL SPL	UNDRGR DC GALVS 4	UNDRGR DC PVC 2	UNDRGRD CPVC 4	CON AT ST 1 1/2 GALVS	CON AT ST 2 GALVS	JUN BX SS AS 16X14X6	JUN BX SS AS 12X12X6	CON EMB STR 2 PVC	HAND HOLE PCC/ COMM VAULT	UD2#6#8G XLP USE 125P	ECC XLP USE 1C 8	ECC XLP USE 1C 6	ECC XLP USE 1C 6 FOR CCTV	BKWY DEV TR B 15BC	CCTV DOME CAMERA HD	CCTV CABINET	CAMERA ROLE 55 FT	MODIFY EXISTING CONTROLLER	FO CAB C 72 SM PO	ELEC. CAB TRACER	FIB OPTIC SPLICE	CAT 5 EHERNET CABLE						
				EA	EA	FT	EA	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	FT	FT	FT	FT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA					
EB FAI 270	1834+40										140																									
	1834+55	55.5'	C60																																	
	1834+63	56.2'																																		
	1834+71	60.2'	C60																																	
	1834+74	54.7'	C60																																	
	1834+89	-18.9'																																		
	1834+89	55'																																		
	1835+00																																			
	1835+65	56.2'	C62		1	7	1	104																												
	1835+90																																			
	1837+64	55.7'	C64		1	7	1	104																												
	1839+65	56.1'	C66		1	7	1	104																												
	1841+65	56.2'	C68		1	7	1	104																												
	1843+65	56.1'	C70		1	7	1	104																												
	1845+65	55.8'	C72		1	7	1	104																												
	1847+65	56.1'	C74		1	7	1	104																												
	1849+25	68.6'	C76																																	
	1849+50																																			
	1849+50 TO 1905+00																																			
	1849+64	56.6'	C76		1	7	1	104																												
	1851+64	56.1'	C78		1	7	1	104																												
	1853+65	56.3'	C80		1	7	1	104																												
	1855+66	56.6'	C82		1	7	1	104																												
	1857+65	56.3'	C84		1	7	1	104																												
	1859+65	56.1'	C86		1	7	1	104																												
	1861+65	56.2'	C88		1	7	1	104																												
	1863+65	55.60	C90		1	7	1	104																												
	1865+65	55.70	C92		1	7	1	104																												
	1867+65	55.20	C94		1	7	1	104																												
	1867+73	94.04																																		
	1869+65	55.90	C96		1	7	1	104																												
	1871+65	55.70	C98		1	7	1	104																												
	1873+65	56.00	C100		1	7	1	104																												
	1875+65	56.10	C102		1	7	1	104																												
	1877+66	56.00	C104		1	7	1	104																												
	1879+65	56.1'	C106		1	7	1	104																												
	1881+65	56.1'	C108		1	7	1	104																												
	1883+63	56.1'	C110		1	7	1	104																												
	1885+65	56.1'	C112		1	7	1	104																												
	1887+65	56.1'	C114		1	7	1	104																												
	1889+66	55.9'	C116		1	7	1	104																												
	1891+65	56.1'	C118		1	7	1	104																												
	1893+65	56.1'	C120		1	7	1	104																												
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	1905+00																																			
TOTALS				59	72	513	147	7310	320	14	560	280	80	8	2	21530	14	14325.8	12050	24100	24954	1	3	3	1	2	11170	11170	1	155						

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REV. 06/28/22



USER NAME = muddin
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 PLOT DATE = 6/27/2022

DESIGNED - MJC
 DRAWN - FPE
 CHECKED - JMO
 DATE - 3/01/2022

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

**FAI-270
 SCHEDULE OF QUANTITIES**

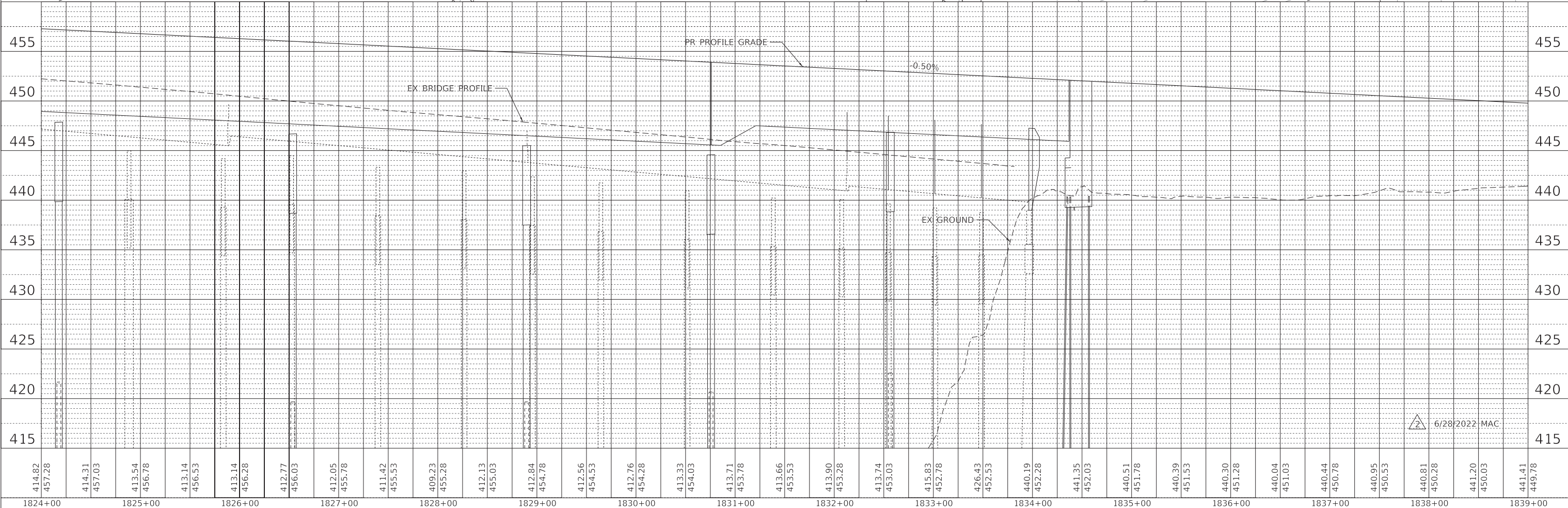
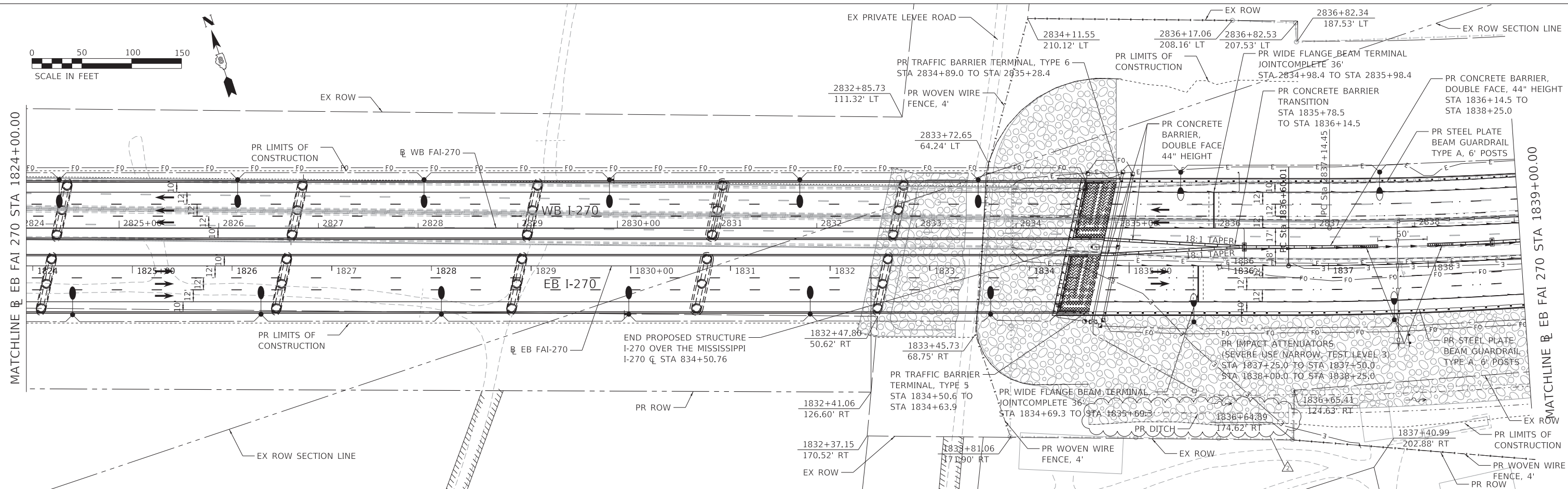
SCALE: SHEET 15 OF 15 SHEETS STA. TO STA.

F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 41
JOB NO. P-98-001-1				



PLAN	SURVEYED	DATE
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	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
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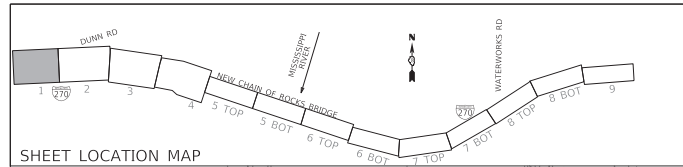
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DESIGNED	-
DRAWN	-
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DATE	-
REVISION	6/28/2022 MAC
REVISION	-
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REVISION	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
PLAN AND PROFILE**

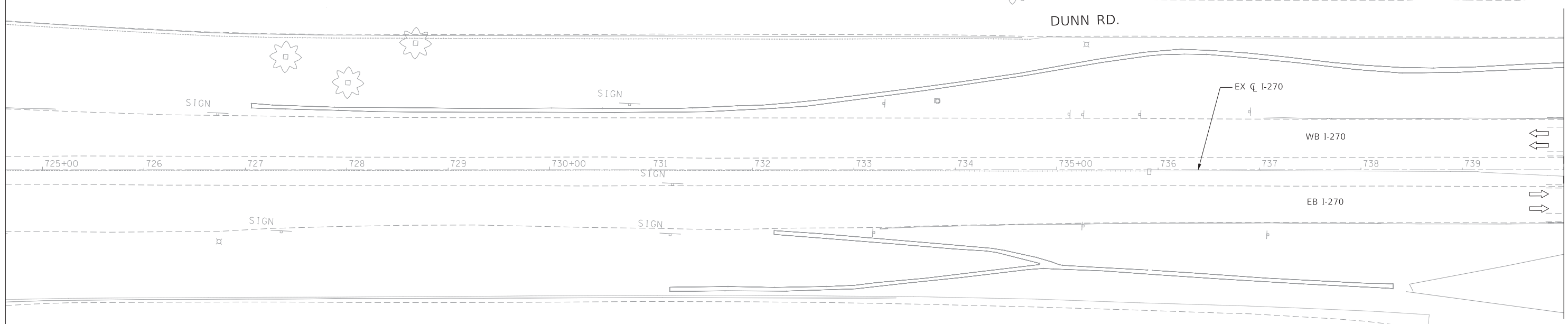
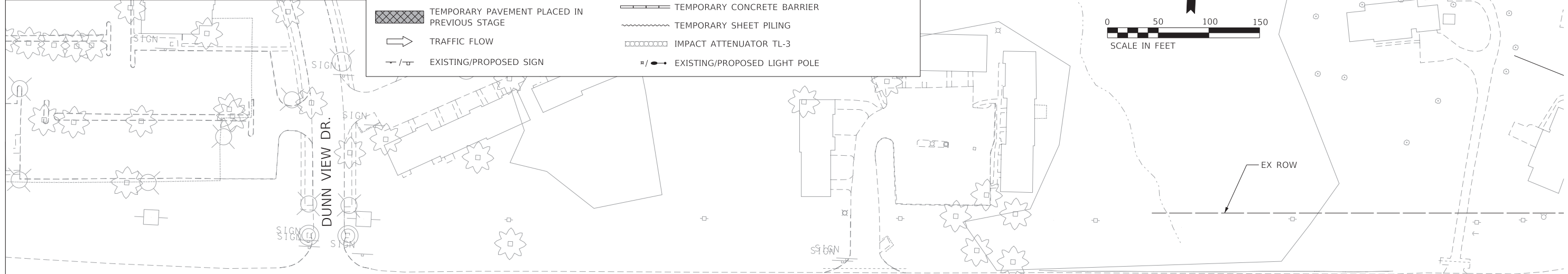
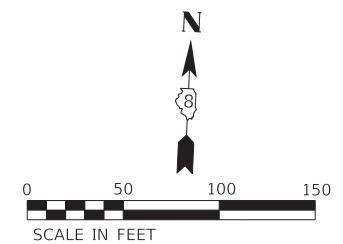
SCALE: 1" = 50' SHEET 4 OF 9 SHEETS STA. 1824+00.00 TO STA. 1839+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	57
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC LEGEND

	COMPLETED CONSTRUCTION		TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
	WORK ZONE		TYPE III BARRICADE
	TEMPORARY PAVEMENT		TEMPORARY CONCRETE BARRIER
	TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE		TEMPORARY SHEET PILING
	TRAFFIC FLOW		IMPACT ATTENUATOR TL-3
	EXISTING/PROPOSED SIGN		EXISTING/PROPOSED LIGHT POLE



MATCHLINE STA. 740+00.00 (EB)

STAGE SUMMARY

- MOT PRE STAGE:
1. MAINTAIN EASTBOUND AND WESTBOUND I-270 TRAFFIC ON EXISTING RIVER BRIDGE.
 2. ON THE ILLINOIS SIDE, MAINTAIN EASTBOUND AND WESTBOUND I-270 TRAFFIC ON EXISTING ROADWAY
 3. CONSTRUCT TEMPORARY EB AND WB OUTSIDE SHOULDERS UP TO EB STATION 1871+00, AS SHOWN ON THE PLANS.
 4. CONSTRUCT PERMANENT OUTSIDE LANE AND SHOULDERS, GUARDRAIL AND LIGHTING FROM EB STATION 1871+00 TO THE CANAL BRIDGE, AS SHOWN ON THE PLANS. EB BRIDGE CONSTRUCTION CAN START PRE-STAGE.

STAGE QUANTITIES

PAY ITEM	PHASE 0	PHASE 1A	PHASE 1B	PHASE 1C	PHASE 1D	PHASE 2A	PHASE 2B	PHASE 2C	TOTAL QUANTITY	UNITS
TEMP CONC BARRIER (PINNED)	15850	7521	3221	728	0	200	8824	6630	43,274	FEET
RELOC TEMP CONC BARRIER	0	13815	7213	8217	10738	20224	0	0	60,207	FEET
IMPACT ATT TEMP (NON-R) TL 3	1	1	0	0	0	0	1	0	3	EACH
IMPACT ATT RELOC. (NON-R) TL 3	0	0	2	2	2	1	1	0	8	EACH
WET REFLECTIVE TEMP TAPE TY III - 6 IN	0	0	36260	19680	31430	59453	25240	59220	231283	FEET
TEMPORARY PAVEMENT	11704	14117	0	0	0	0	0	0	25,821	SQ YD
TEMPORARY PAVEMENT REMOVAL	0	13824	9720	0	0	0	0	0	23544	SQ YD
INLETS TO BE ADJUSTED W/ NEW FRAME -GRATE	0	0	4	0	0	0	0	0	4	EA
STORM SEWERS, CLASS B, TYPE 1 15"	0	0	224	0	0	0	0	0	224	LF

* FOR SIGN QUANTITIES, SEE NEXT SHEET.

REV. 6/28/2022

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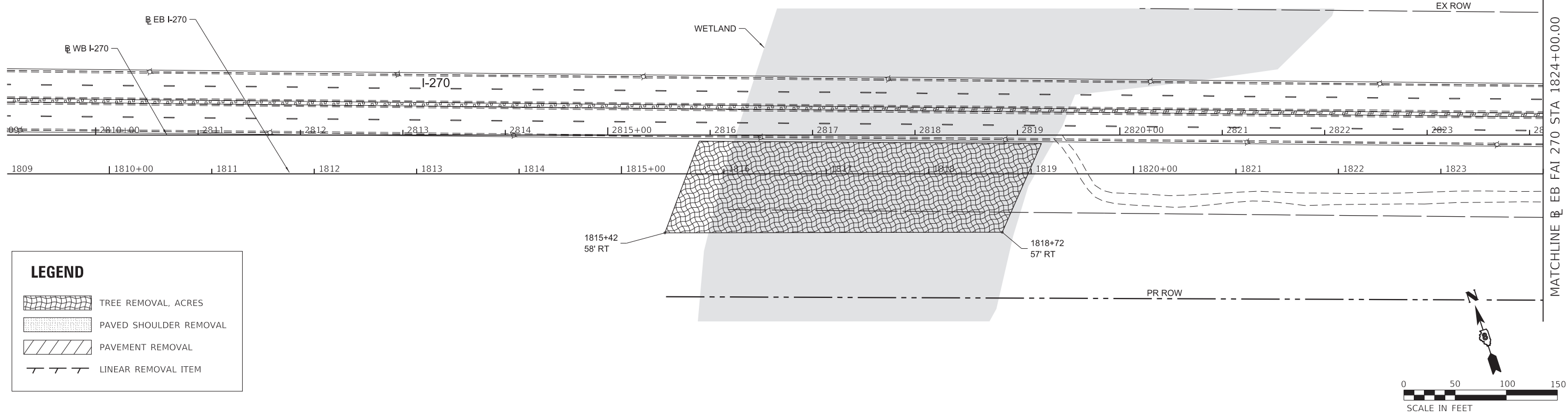
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	PLOT DATE = 6/28/2022	CHECKED - JB	REVISED -
		DATE - 2021/07/27	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 270 TRAFFIC CONTROL PLAN
PRE-STAGE

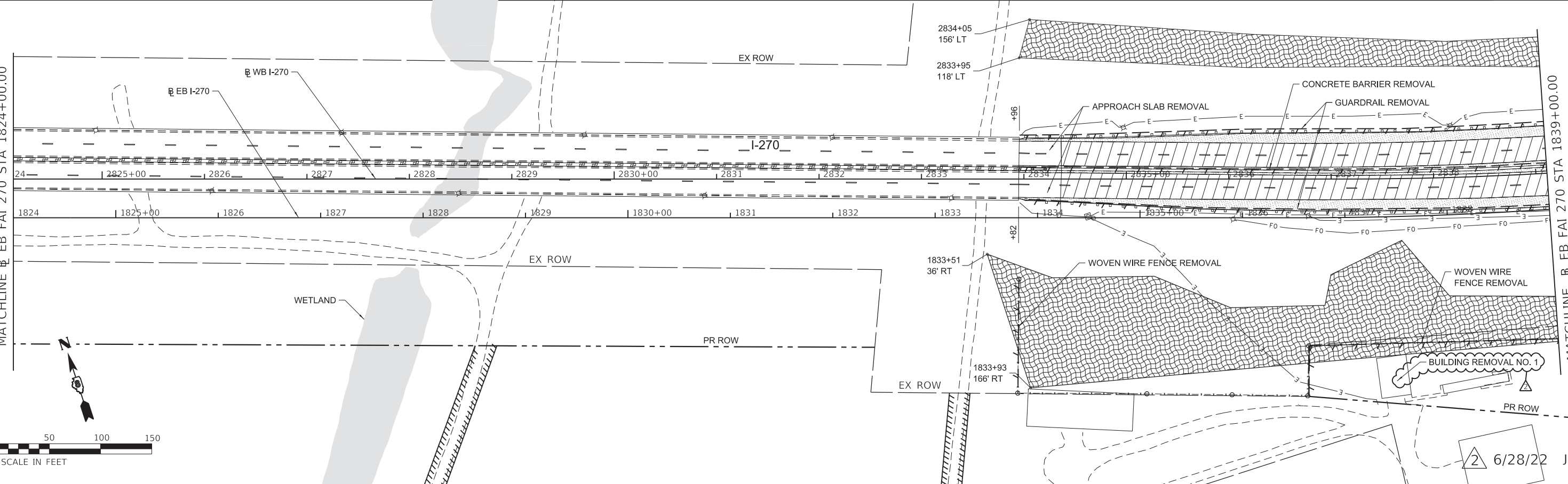
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	71
CONTRACT NO. 76J90			ILLINOIS FED. AID PROJECT	



LEGEND

- TREE REMOVAL, ACRES
- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL
- LINEAR REMOVAL ITEM



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<p>AMERICAN SURVEYING & ENGINEERING, P.C. SURVEYORS-ENGINEERS GEODESISTS-MAPPING SCIENTISTS</p>	USER NAME = colwellj DESIGNED - JB DRAWN - JB CHECKED - JC DATE - 3/11/22	REVISED - 6/28/22 JC REVISED - REVISED - REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

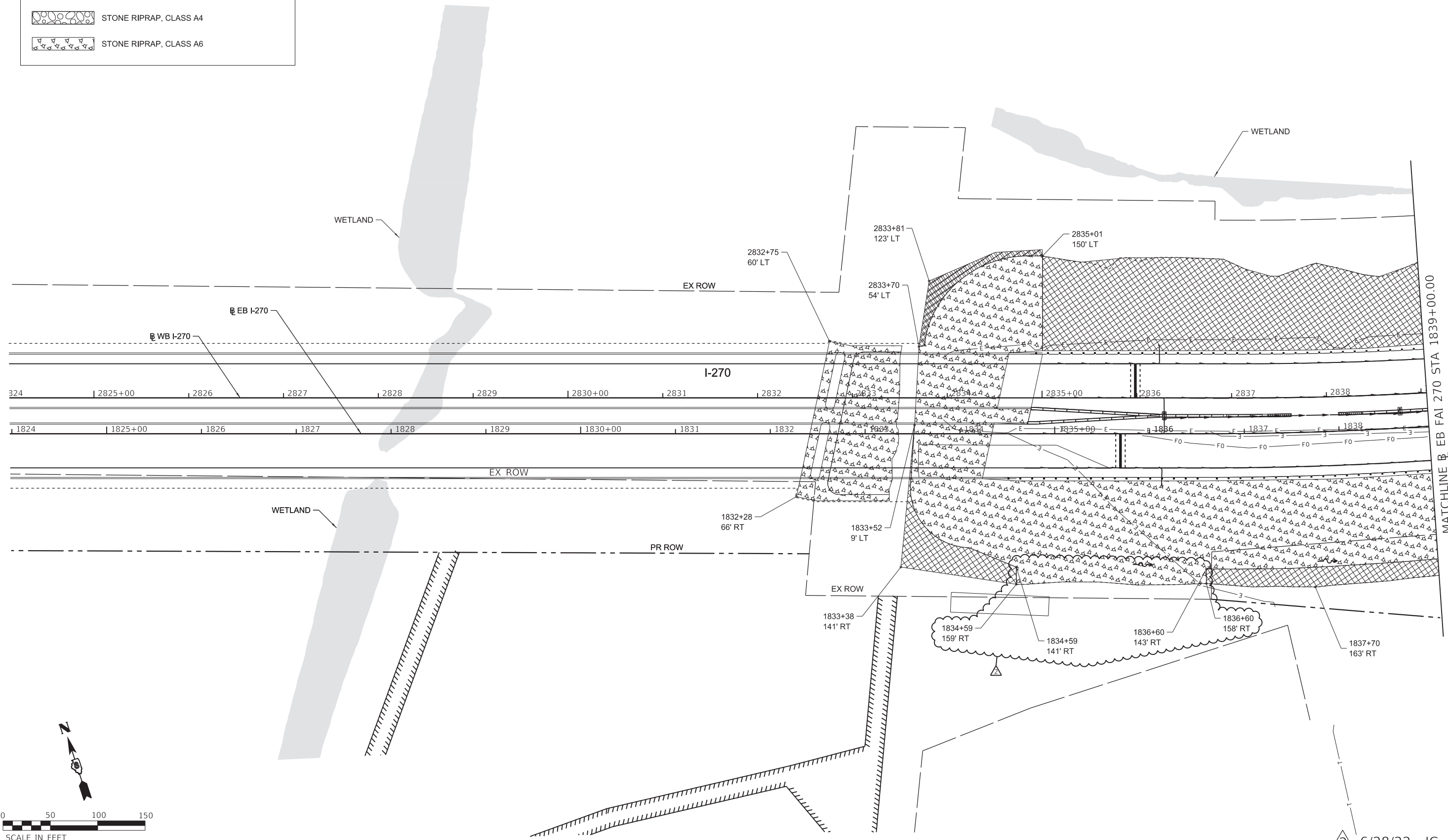
**FAI-270
REMOVAL PLAN**

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 1809+00.00 TO STA. 1839+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	166
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

6/28/22 JC

LANDSCAPING LEGEND	
	SEEDING, CLASS 3A AND MULCH METHOD 3A
	STONE RIPRAP, CLASS A4
	STONE RIPRAP, CLASS A6



MODEL: D:\p\h\...
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6/28/22 JC



USER NAME = colwellj	DESIGNED - JM	REVISED - 6/28/22 JC
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PLOT DATE = 6/22/2022	CHECKED - JC	REVISED -
	DATE - 6/22/22	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI-270 LANDSCAPING			
SCALE: 1" = 50'	SHEET 1	OF 6 SHEETS	STA. 1824+00.00 TO STA. 1839+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	187
CONTRACT NO. 76J90				
ILLINOIS		FED. AID PROJECT		

MATCHLINE @ EB FAI 270 STA 1839+00.00

ITS LIGHTING NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN IN THE CONTRACT DRAWINGS WHICH AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT.
3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION).
5. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
6. CONDUIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
7. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. IF DAMAGE OCCURS, THE CONTRACTOR SHALL RESTORE THE DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPROPRIATE PAY ITEM.
8. ALL THE FOUNDATIONS SHALL INCLUDE A GROUND ROD PER STANDARD 836001-04 AND STANDARD SPECIFICATION SECTION 806. GROUND ROD SHALL BE INCLUDED IN THE COST OF THE POLE FOUNDATION PAY ITEM.
9. A 1/4" DIA. NYLON ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS. THE COST OF PULL ROPE SHALL BE INCLUDED IN THE PROPOSED ELECTRIC CABLE INSTALLATION AND OR FIBER OPTIC CABLE IN THAT CONDUIT.
10. MARKING OF FIBER OPTIC IN-GROUND CONDUIT RUNS WILL BE DONE TO PREVENT FUTURE DAMAGE TO FIBER BACKBONE. THE FIBER OPTIC UTILITY MARKER WILL BE PLACED EVERY 300 FT. ALONG THE FIBER RUN AND AT OTHER IMPORTANT JUNCTIONS, TURNS, OR OTHER AREAS AS SPECIFIED BY THE FIELD ENGINEER.

10. MARKING OF FIBER OPTIC IN-GROUND CONDUIT RUNS WILL BE DONE TO PREVENT FUTURE DAMAGE TO FIBER BACKBONE. THE FIBER OPTIC UTILITY MARKER WILL BE PLACED EVERY 300 FT. ALONG THE FIBER RUN AND AT OTHER IMPORTANT JUNCTIONS, TURNS, OR OTHER AREAS AS SPECIFIED BY THE FIELD ENGINEER.

2

LIGHTING SEQUENCE FOR MOT STAGES

- STAGE 0:
1. INSTALL NEW LIGHTING FROM STA 1872+00 TO THE CANAL BRIDGE, ON BOTH NORTH (BEGIN LIGHT POLE C97) AND SOUTH SIDE (BEGIN LIGHT POLE C98). REMOVE EXISTING LIGHTING AFTER NEW LIGHTING IS OPERATIVE.
- STAGE 1A:
1. NEW EB BRIDGE CONSTRUCTION.
 2. NEW EB BRIDGE LIGHTING TO BE CONSTRUCTED.
- STAGE 1B:
1. EB FILL CONSTRUCTION, NEW PAVEMENT FOR EB LANES CONSTRUCTED.
 2. NEW LIGHTING ALONG EB LANES FROM NEW EB BRIDGE TO LIGHT POLE C96.
 3. REMOVE EXISTING LIGHTING AFTER NEW LIGHTING IS OPERATIVE.
- STAGE 1C:
1. NO LIGHTING WORK.
- STAGE 1D:
1. NO LIGHTING WORK.
- STAGE 2A:
1. NEW WB BRIDGE CONSTRUCTION.
 2. NEW WB BRIDGE LIGHTING TO BE CONSTRUCTED.
 3. WB FILL CONSTRUCTION, NEW PAVEMENT FOR WB LANES CONSTRUCTED.
 4. NEW LIGHTING ALONG WB LANES FROM NEW WB BRIDGE TO LIGHT POLE C95 INSTALLED.
 5. REMOVE EXISTING LIGHTING AFTER NEW LIGHTING IS OPERATIVE.
- STAGE 2B:
1. NO LIGHTING WORK.
- STAGE 2C:
1. NO LIGHTING WORK

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REV. 06/28/22



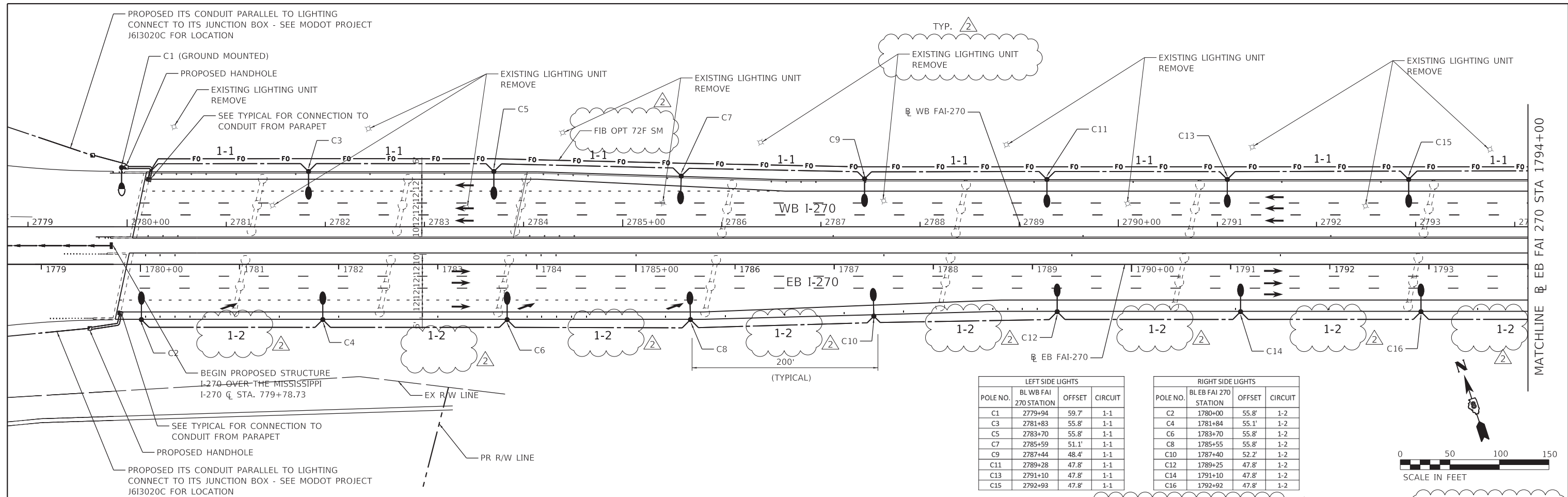
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
LIGHTING GENERAL NOTES**

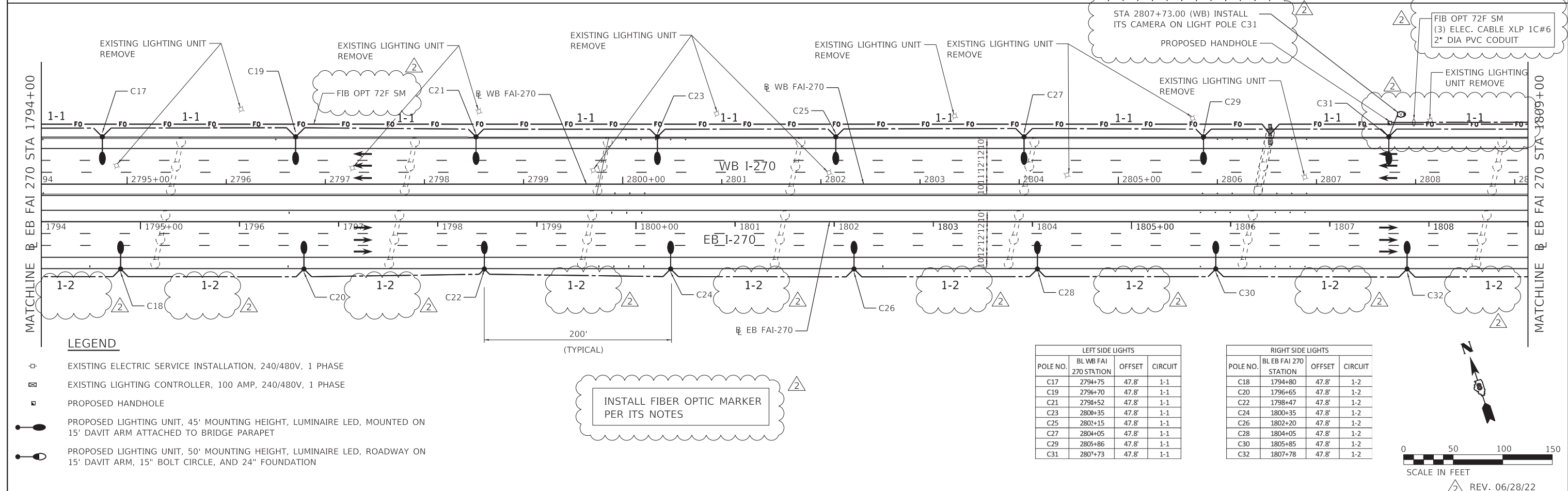
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	193
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				



LEFT SIDE LIGHTS			
POLE NO.	BL WB FAI 270 STATION	OFFSET	CIRCUIT
C1	2779+94	59.7'	1-1
C3	2781+83	55.8'	1-1
C5	2783+70	55.8'	1-1
C7	2785+59	51.1'	1-1
C9	2787+44	48.4'	1-1
C11	2789+28	47.8'	1-1
C13	2791+10	47.8'	1-1
C15	2792+93	47.8'	1-1

RIGHT SIDE LIGHTS			
POLE NO.	BL EB FAI 270 STATION	OFFSET	CIRCUIT
C2	1780+00	55.8'	1-2
C4	1781+84	55.1'	1-2
C6	1783+70	55.8'	1-2
C8	1785+55	55.8'	1-2
C10	1787+40	52.2'	1-2
C12	1789+25	47.8'	1-2
C14	1791+10	47.8'	1-2
C16	1792+92	47.8'	1-2



LEFT SIDE LIGHTS			
POLE NO.	BL WB FAI 270 STATION	OFFSET	CIRCUIT
C17	2794+75	47.8'	1-1
C19	2796+70	47.8'	1-1
C21	2798+52	47.8'	1-1
C23	2800+35	47.8'	1-1
C25	2802+15	47.8'	1-1
C27	2804+05	47.8'	1-1
C29	2805+86	47.8'	1-1
C31	2807+73	47.8'	1-1

RIGHT SIDE LIGHTS			
POLE NO.	BL EB FAI 270 STATION	OFFSET	CIRCUIT
C18	1794+80	47.8'	1-2
C20	1796+65	47.8'	1-2
C22	1798+47	47.8'	1-2
C24	1800+35	47.8'	1-2
C26	1802+20	47.8'	1-2
C28	1804+05	47.8'	1-2
C30	1805+85	47.8'	1-2
C32	1807+78	47.8'	1-2



LEGEND

- ⊕ EXISTING ELECTRIC SERVICE INSTALLATION, 240/480V, 1 PHASE
- ⊠ EXISTING LIGHTING CONTROLLER, 100 AMP, 240/480V, 1 PHASE
- ▣ PROPOSED HANDHOLE
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 15' DAVIT ARM ATTACHED TO BRIDGE PARAPET
- PROPOSED LIGHTING UNIT, 50' MOUNTING HEIGHT, LUMINAIRE LED, ROADWAY ON 15' DAVIT ARM, 15" BOLT CIRCLE, AND 24" FOUNDATION

INSTALL FIBER OPTIC MARKER PER ITS NOTES

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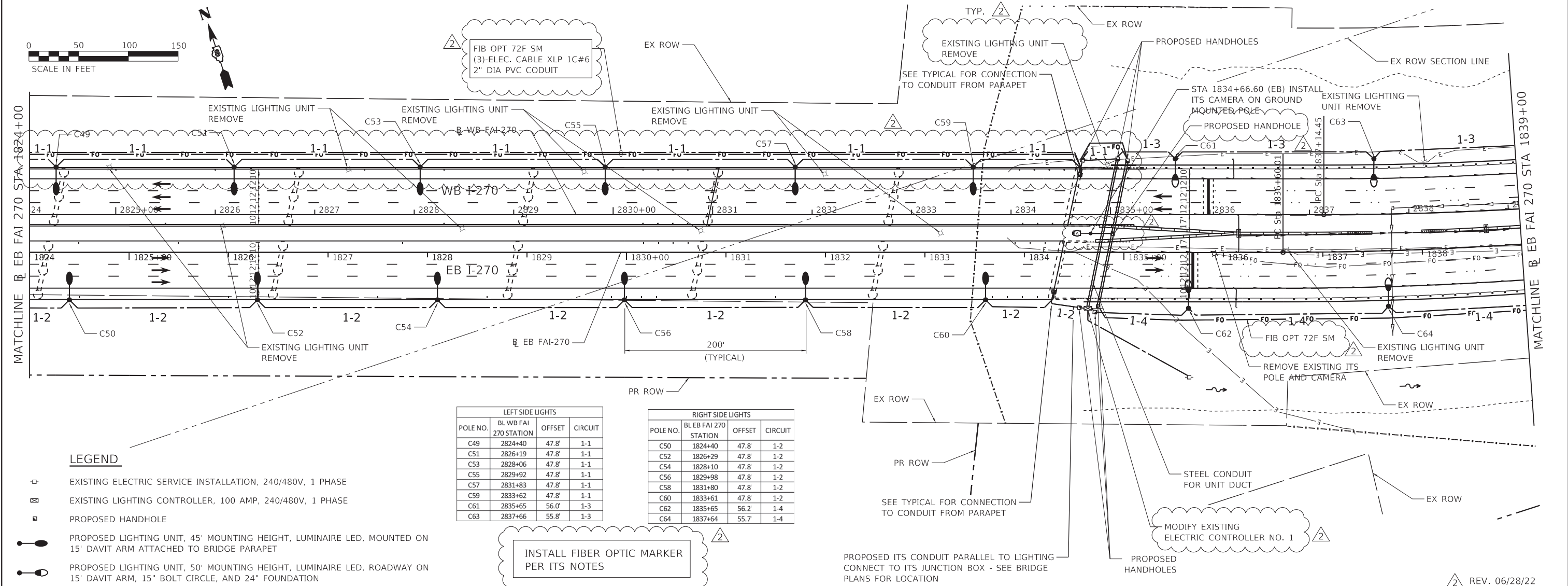
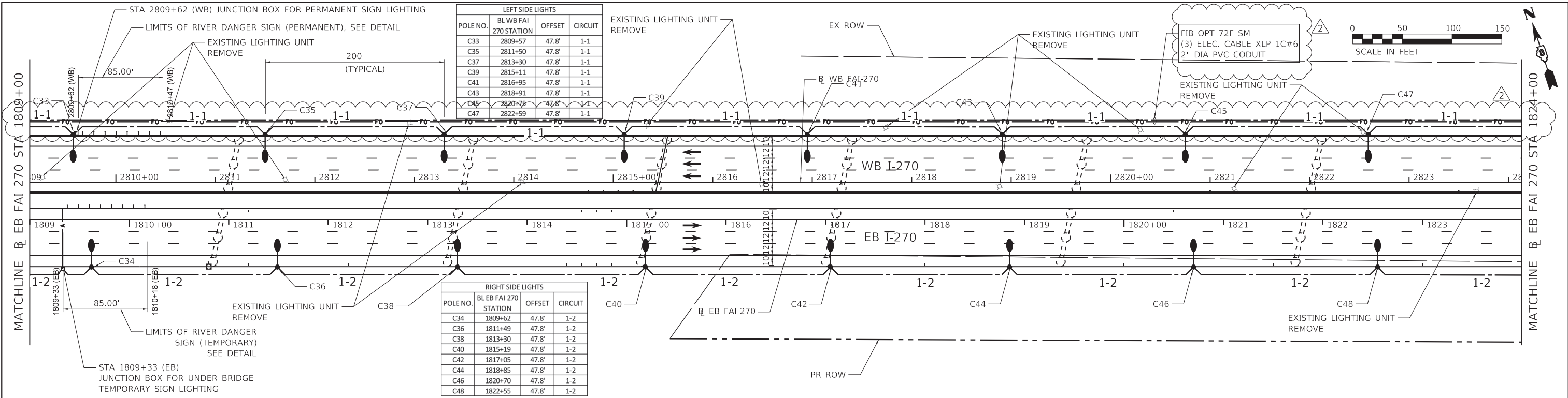
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
PROPOSED ITS AND LIGHTING**

SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. 1779+00.00 TO STA. 1809+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	194
JOB NO. P-98-001-15	CONTRACT NO. 76J90		ILLINOIS FED. AID PROJECT	

REV. 06/28/22



LEGEND

- ⊕ EXISTING ELECTRIC SERVICE INSTALLATION, 240/480V, 1 PHASE
- ⊕ EXISTING LIGHTING CONTROLLER, 100 AMP, 240/480V, 1 PHASE
- PROPOSED HANDHOLE
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 15' DAVIT ARM ATTACHED TO BRIDGE PARAPET
- PROPOSED LIGHTING UNIT, 50' MOUNTING HEIGHT, LUMINAIRE LED, ROADWAY ON 15' DAVIT ARM, 15" BOLT CIRCLE, AND 24" FOUNDATION

INSTALL FIBER OPTIC MARKER PER ITS NOTES

MODIFY EXISTING ELECTRIC CONTROLLER NO. 1

REV. 06/28/22

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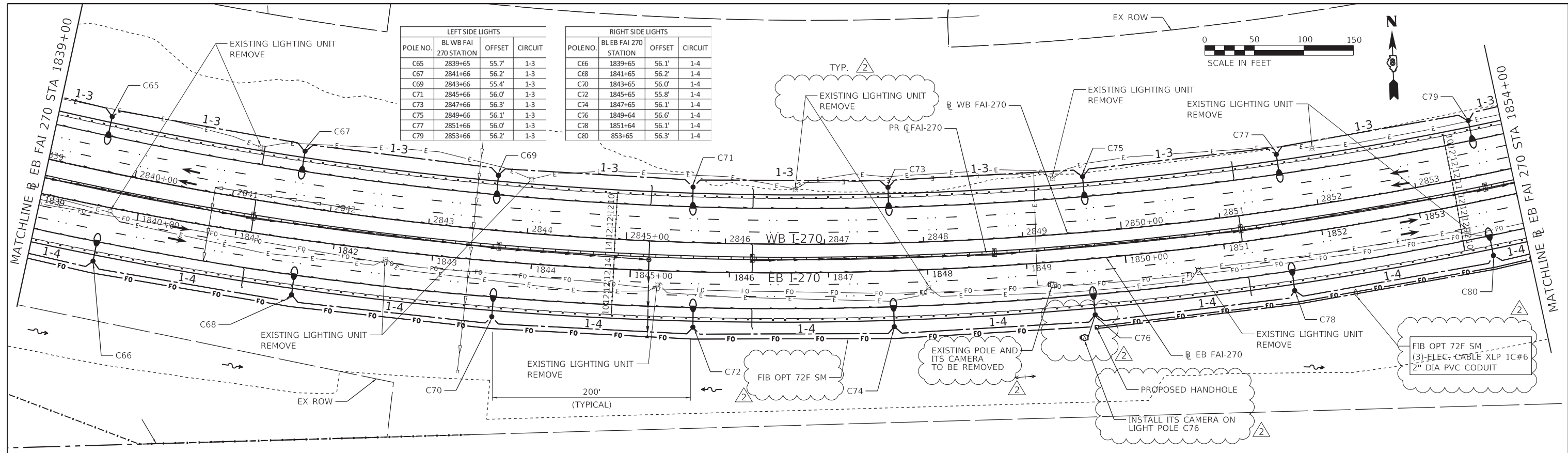
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
PROPOSED ITS AND LIGHTING**

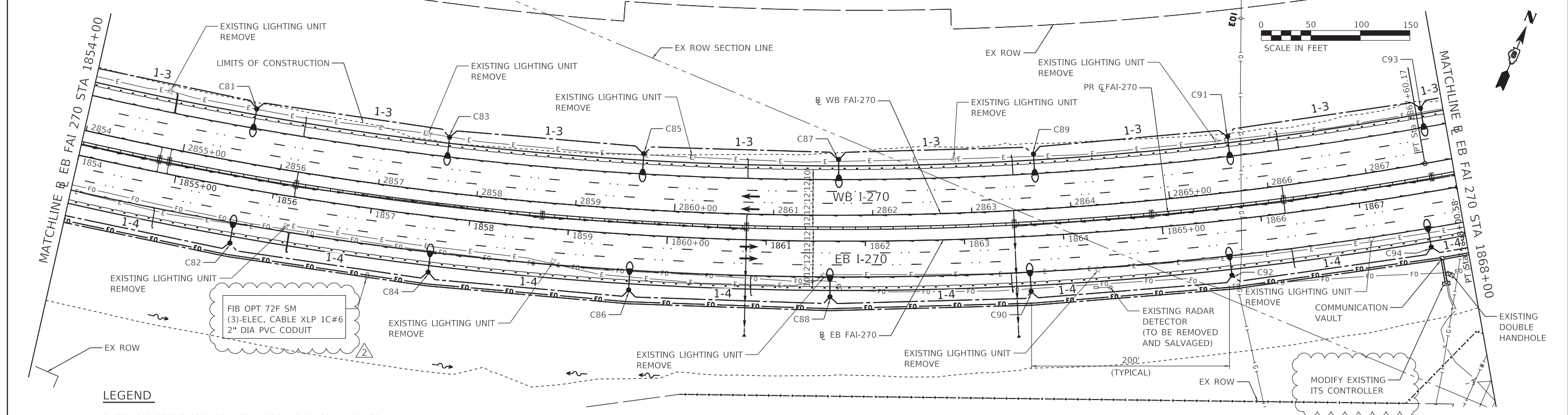
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F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 195
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				



LEFT SIDE LIGHTS			
POLE NO.	BL WB FAI 270 STATION	OFFSET	CIRCUIT
C65	2839+65	55.7'	1-3
C67	2841+66	56.2'	1-3
C69	2843+66	55.4'	1-3
C71	2845+66	56.0'	1-3
C73	2847+66	56.3'	1-3
C75	2849+66	56.1'	1-3
C77	2851+66	56.0'	1-3
C79	2853+66	56.2'	1-3

RIGHT SIDE LIGHTS			
POLE NO.	BL EB FAI 270 STATION	OFFSET	CIRCUIT
C66	1839+65	56.1'	1-4
C68	1841+65	56.2'	1-4
C70	1843+65	56.0'	1-4
C72	1845+65	55.8'	1-4
C74	1847+65	56.1'	1-4
C76	1849+64	56.6'	1-4
C78	1851+64	56.1'	1-4
C80	853+65	56.3'	1-4



LEFT SIDE LIGHTS			
POLE NO.	BL WB FAI 270 STATION	OFFSET	CIRCUIT
C81	2855+65	55.7'	1-3
C83	2857+66	55.8'	1-3
C85	2859+66	56.5'	1-3
C87	2861+66	56.3'	1-3
C89	2863+66	55.9'	1-3
C91	2865+66	56.0'	1-3
C93	2867+65	55.6'	1-3

RIGHT SIDE LIGHTS			
POLE NO.	BL EB FAI 270 STATION	OFFSET	CIRCUIT
C82	1855+66	56.6'	1-4
C84	1857+65	56.3'	1-4
C86	1859+65	56.0'	1-4
C88	1861+65	56.2'	1-4
C90	1863+65	55.6'	1-4
C92	1865+65	55.7'	1-4
C94	1867+65	55.2'	1-4

LEGEND

- ⊕ EXISTING ELECTRIC SERVICE INSTALLATION, 240/480V, 1 PHASE
- ⊠ EXISTING LIGHTING CONTROLLER, 100 AMP, 240/480V, 1 PHASE
- ◻ PROPOSED HANDHOLE
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 15' DAVIT ARM ATTACHED TO BRIDGE PARAPET
- PROPOSED LIGHTING UNIT, 50' MOUNTING HEIGHT, LUMINAIRE LED, ROADWAY ON 15' DAVIT ARM, 15" BOLT CIRCLE, AND 24" FOUNDATION

INSTALL FIBER OPTIC MARKER PER ITS NOTES

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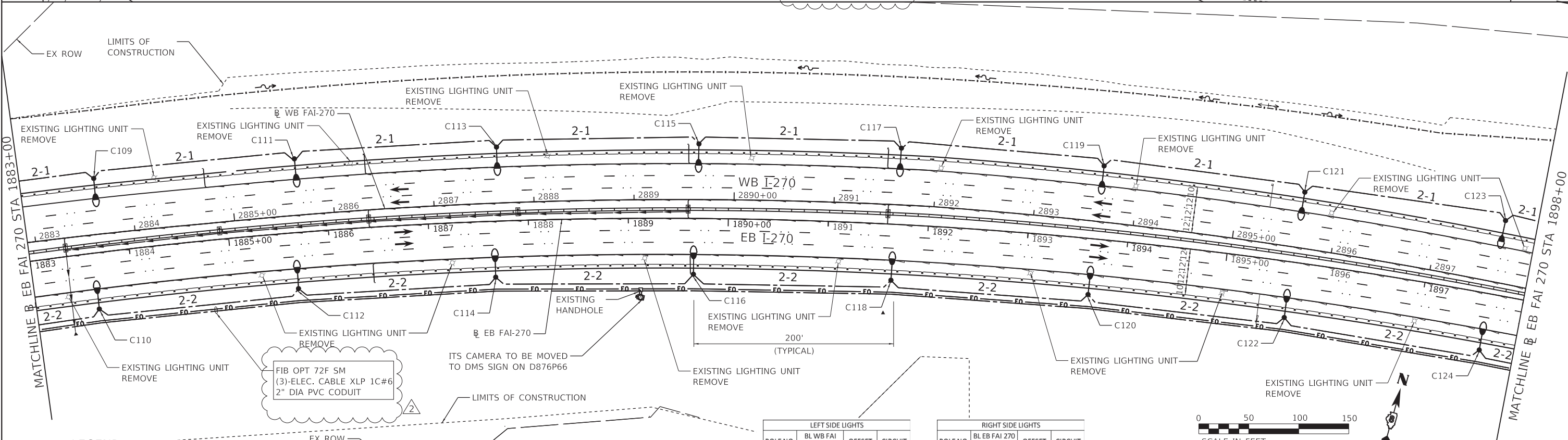
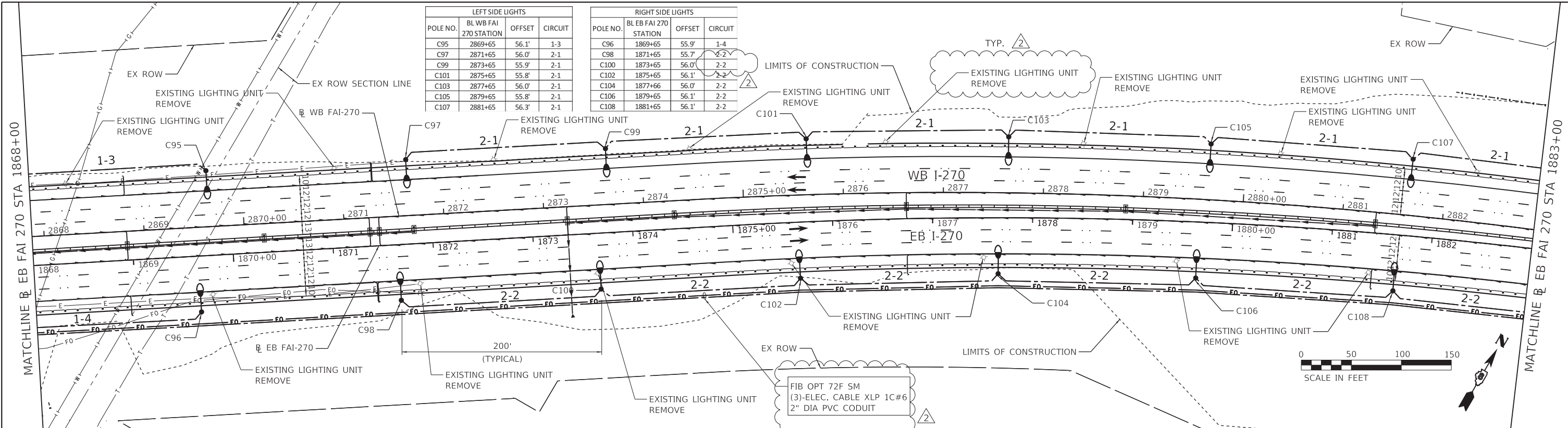
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	DATE - 3/01/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI-270 PROPOSED ITS AND LIGHTING	
SCALE: 1" = 50'	SHEET 3 OF 5 SHEETS STA. 1839+00.00 TO STA. 1868+00.00

F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 196
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

REV. 06/28/22



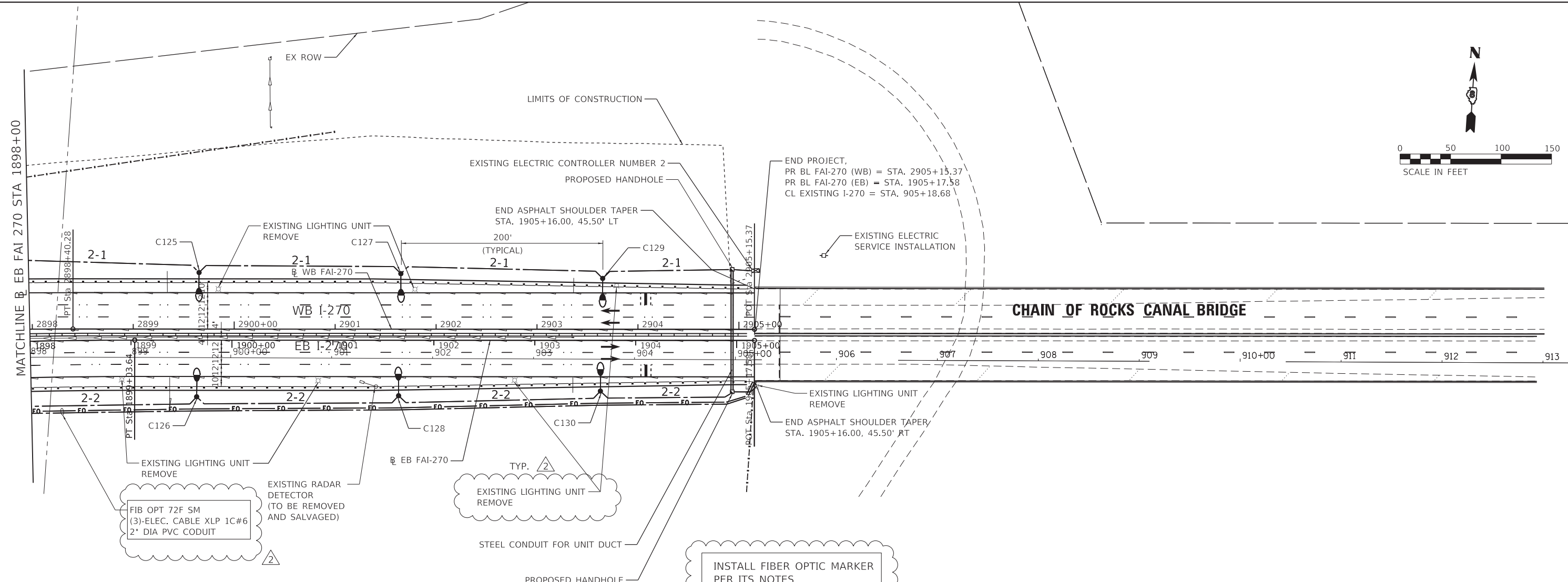
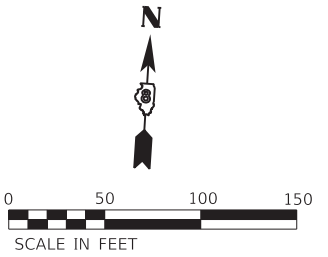
LEGEND

- ⊕ EXISTING ELECTRIC SERVICE INSTALLATION, 240/480V, 1 PHASE
- ⊠ EXISTING LIGHTING CONTROLLER, 100 AMP, 240/480V, 1 PHASE
- PROPOSED HANDHOLE
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 15' DAVIT ARM ATTACHED TO BRIDGE PARAPET
- PROPOSED LIGHTING UNIT, 50' MOUNTING HEIGHT, LUMINAIRE LED, ROADWAY ON 15' DAVIT ARM, 15" BOLT CIRCLE, AND 24" FOUNDATION

INSTALL FIBER OPTIC MARKER PER ITS NOTES

FIB OPT 72F SM (3)-ELEC. CABLE XLP 1C#6 2" DIA PVC COUUIT

ITS CAMERA TO BE MOVED TO DMS SIGN ON D876P66



LEFT SIDE LIGHTS			
POLE NO.	BL WB FAI 270 STATION	OFFSET	CIRCUIT
C125	2899+65	56.0'	2-1
C127	2901+65	55.0'	2-1
C129	2903+65	50.3'	2-1

RIGHT SIDE LIGHTS			
POLE NO.	BL EB FAI 270 STATION	OFFSET	CIRCUIT
C126	1899+65	56.1'	2-2
C128	1901+65	55.0'	2-2
C130	1903+65	50.3'	2-2

LEGEND

- EXISTING ELECTRIC SERVICE INSTALLATION, 240/480V, 1 PHASE
- EXISTING LIGHTING CONTROLLER, 100 AMP, 240/480V, 1 PHASE
- PROPOSED HANDHOLE
- PROPOSED LIGHTING UNIT, 45' MOUNTING HEIGHT, LUMINAIRE LED, MOUNTED ON 15' DAVIT ARM ATTACHED TO BRIDGE PARAPET
- PROPOSED LIGHTING UNIT, 50' MOUNTING HEIGHT, LUMINAIRE LED, ROADWAY ON 15' DAVIT ARM, 15" BOLT CIRCLE, AND 24" FOUNDATION

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	DATE - 3/01/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
PROPOSED ITS AND LIGHTING**

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. 1898+00.00 TO STA. 1905+17.58

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	198
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

REV. 06/28/22



Luminaire Performance Table



Project

Date	Contract Number	Section Number	County
01/04/21	76J90	60(B)-1	Madison
Marked Route Number		Municipality	
I-270			

Roadway

Lane Width	# of Lanes	Median Width	I.E.S. Surface Classification	Q-Zero Value
12	3	15	R3	0.07

Structure

Mounting Height	Arm Length	Set-Back	Number of Luminaires (Highmast & Sign Lighting Only)
45	15	10	N/A

Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution
Roadway, Output Designation G	Type 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)
200	Opposite

Performance

Average Illuminance, E_{AVE} (fc)	Uniformity Ratio, E_{AVE}/E_{MIN}	
0.9	3.0	
Average Luminance, L_{AVE} (cd/m ²)	Uniformity Ratio, L_{MAX}/L_{MIN}	Veiling Luminance Ratio, L_v/L_{AVE}
0.6	1.5	2.5
		0.2

Light Trespass

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

Notes

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

Calculation shall be performed with three lanes and shoulders in one direction.

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

Initial lumens of proposed luminaire may vary from the values specified in the table given in Article 1067.06 of the BDE Special Provision for Luminaire, LED.

Printed 06/14/22

BDE 5630 (04/10/19)

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PLOT DATE = 6/27/2022	DATE - 3/01/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
LUMINAIRE PERFORMANCE TABLES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	199
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

REV. 06/28/22

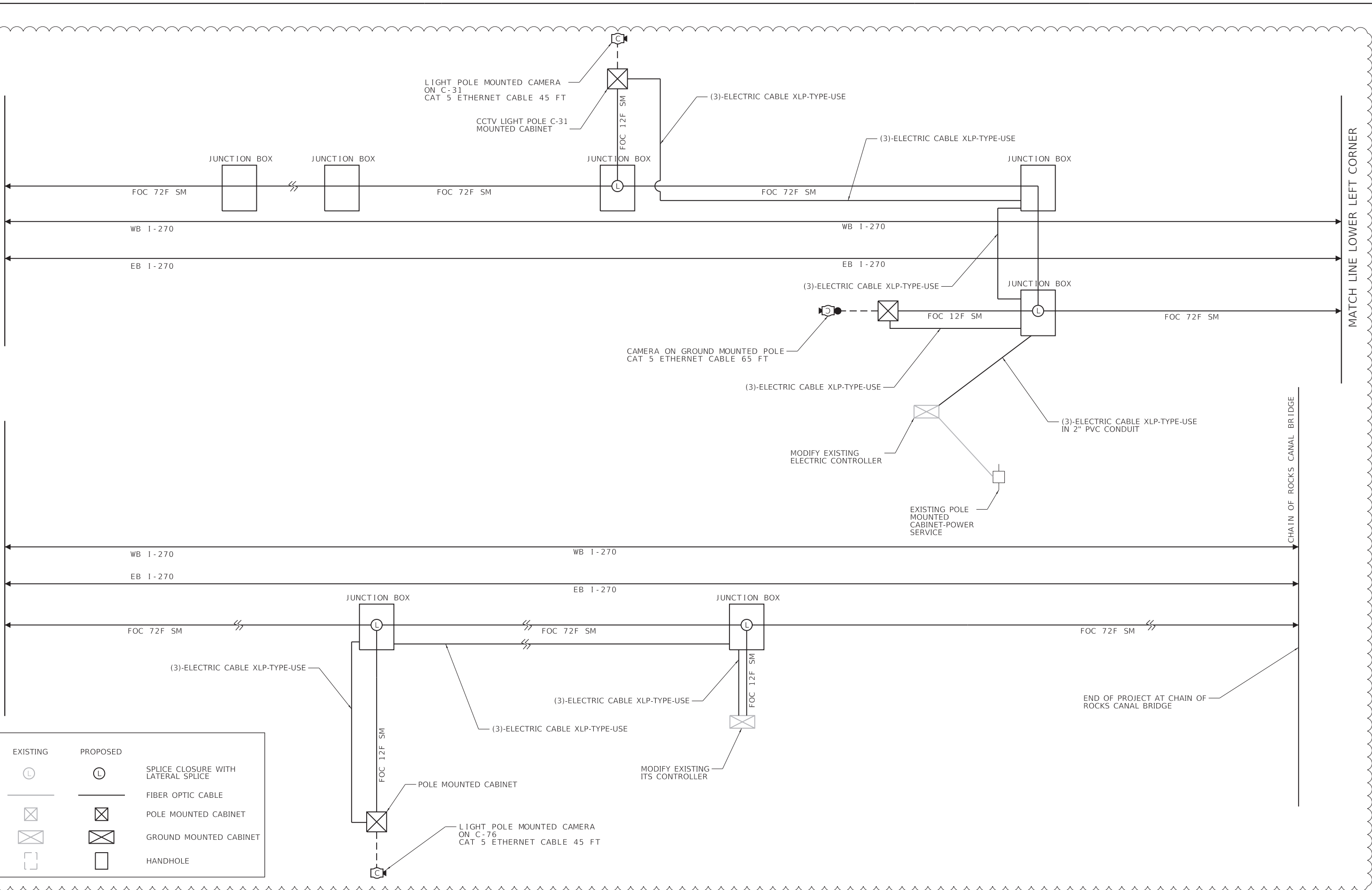
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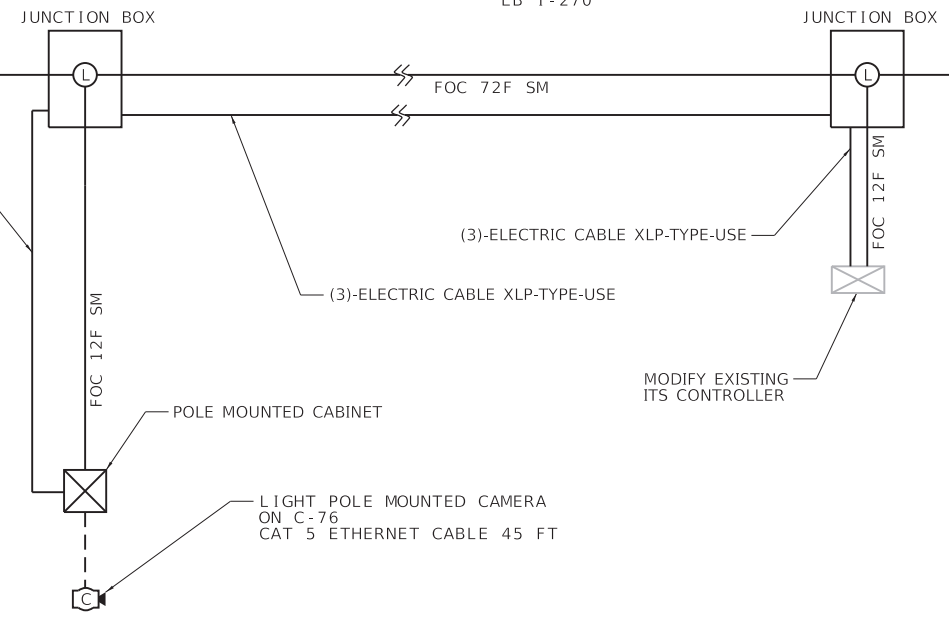
MATCH LINE UPPER RIGHT CORNER

MATCH LINE LOWER LEFT CORNER

CHAIN OF ROCKS CANAL BRIDGE



EXISTING	PROPOSED	
		SPLICE CLOSURE WITH LATERAL SPLICE
		FIBER OPTIC CABLE
		POLE MOUNTED CABINET
		GROUND MOUNTED CABINET
		HANDHOLE



END OF PROJECT AT CHAIN OF ROCKS CANAL BRIDGE

REV. 06/28/22

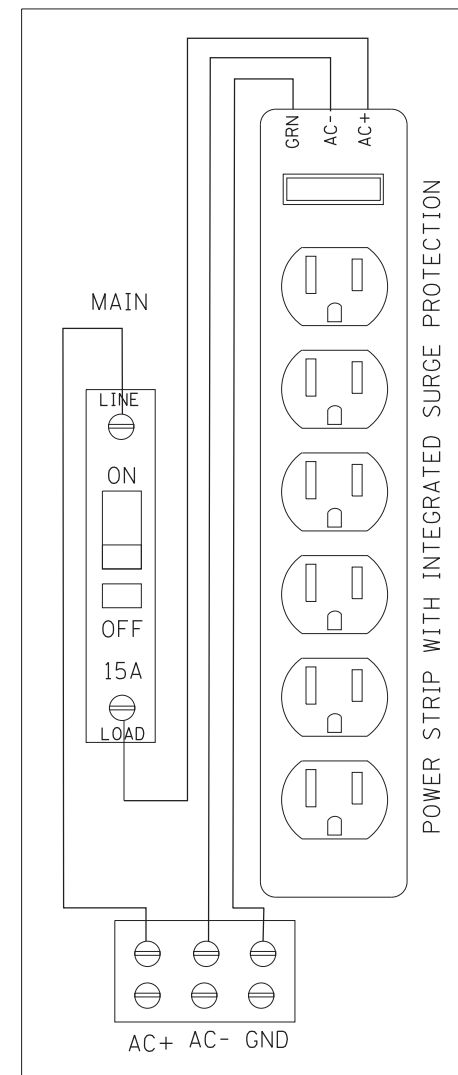
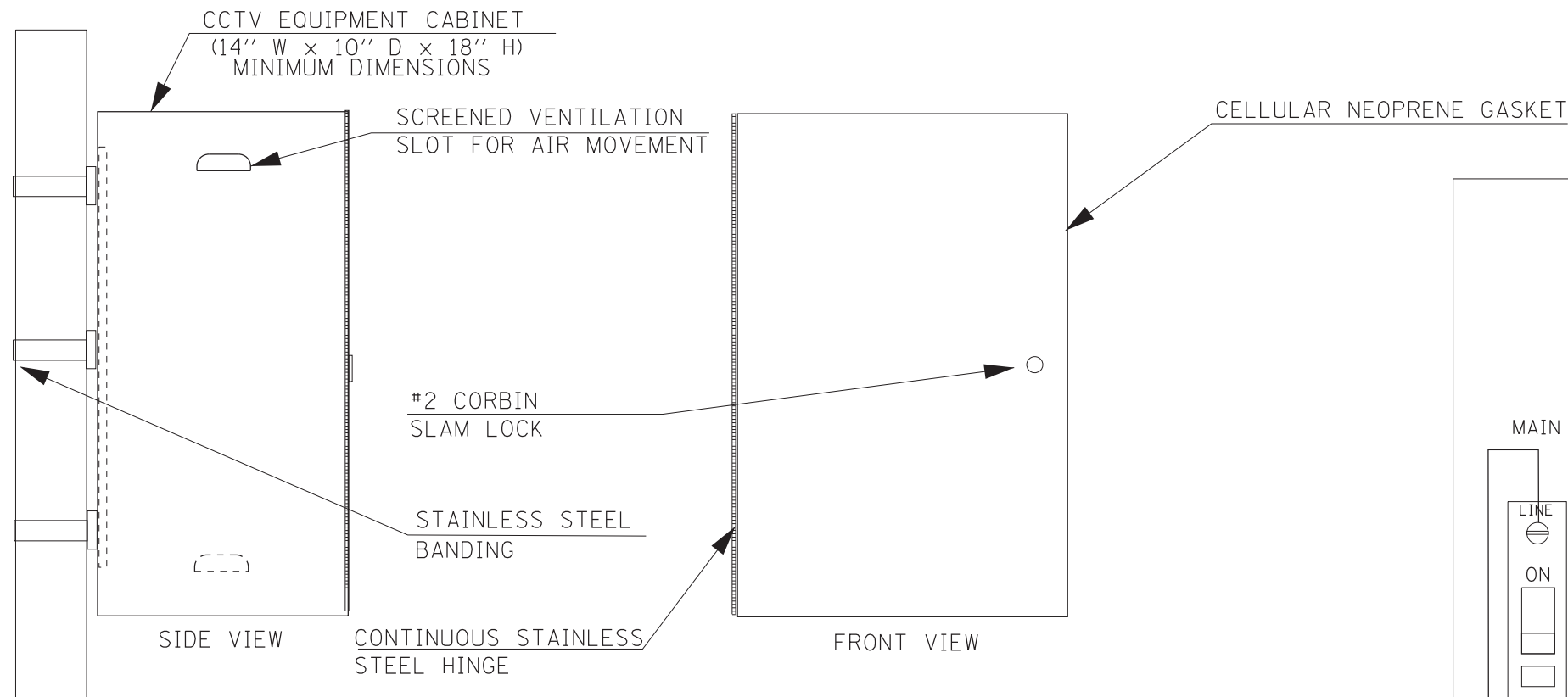


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

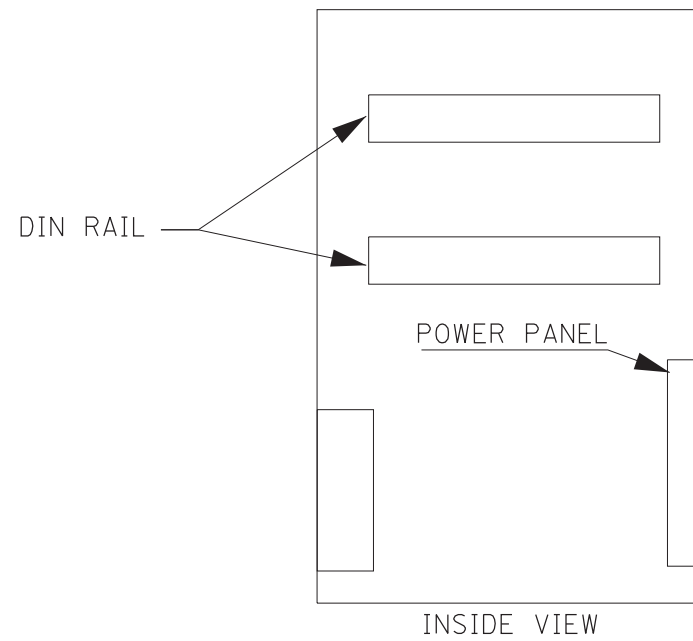
FAI-270			
ITS PLANS FIBER OPTIC CABLE DIAGRAM			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	200
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				



ITS EQUIPMENT CABINET POWER PANEL DETAIL
(TERMINAL STRIP TO BE EQUIPPED WITH PLEXI-GLASS SAFETY SHIELD)

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GALVANIZED STEEL BRACKETING AND HARDWARE REQUIRED FOR CABINET INSTALLATION ON THE PROPOSED CAMERA POLES



NOTES

1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 20" (H) X 14" (W) X 10" (D) (NOMINAL). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
2. THE CABINET SHALL BE EQUIPPED WITH A #2 CORBIN (OR SKELETON KEY) SLAM LOCK, AND ALL STAINLESS STEEL HARDWARE.

NOT TO SCALE

REV. 06/28/22

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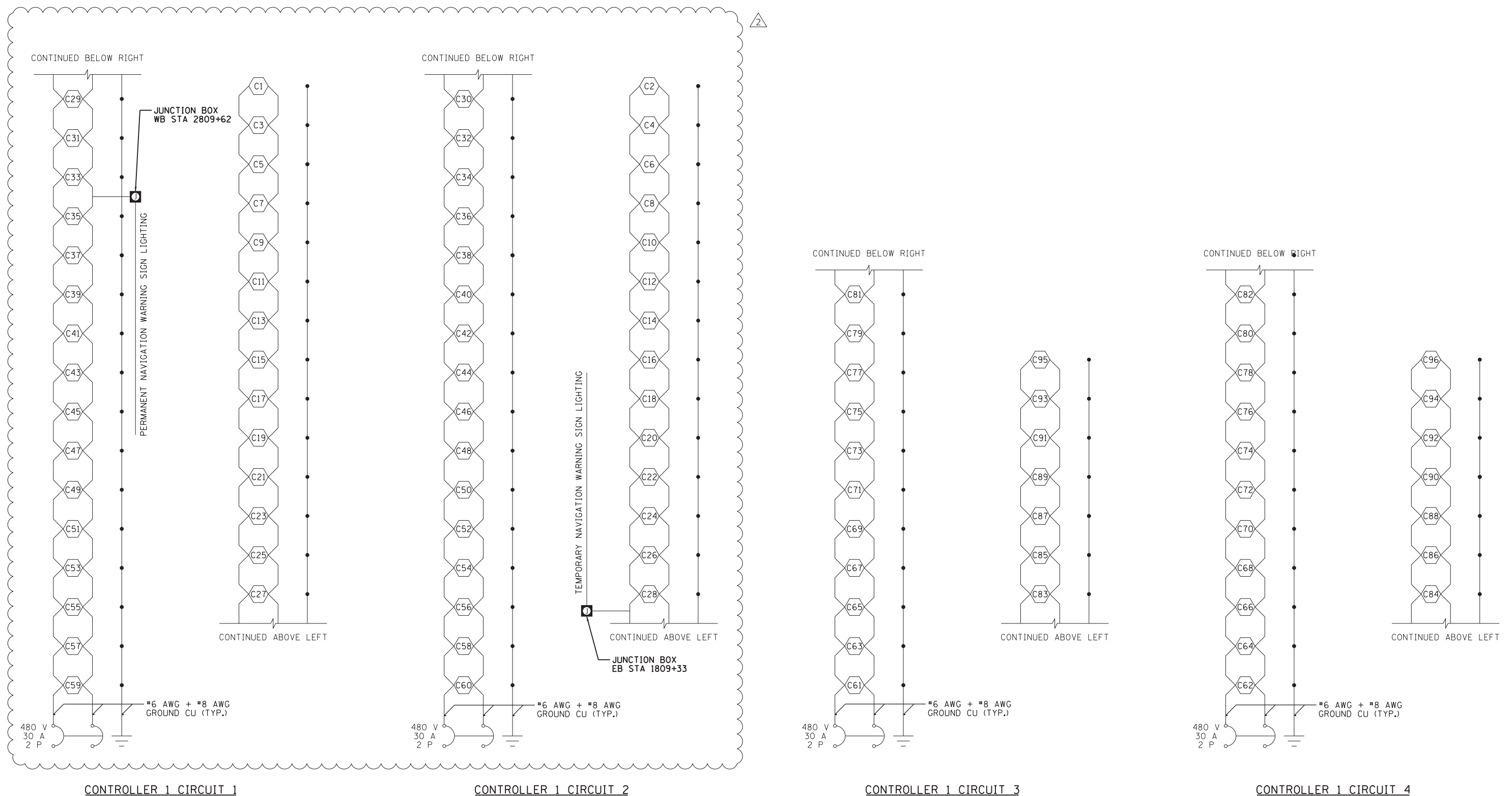
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DEPARTMENT OF TRANSPORTATION**

**FAI-270
CLOSED CIRCUIT TELEVISION CABINET DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 200A
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				



CONTROLLER 1 AT MISSISSIPPI BRIDGE WIRING DIAGRAM

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REV. 06/28/22



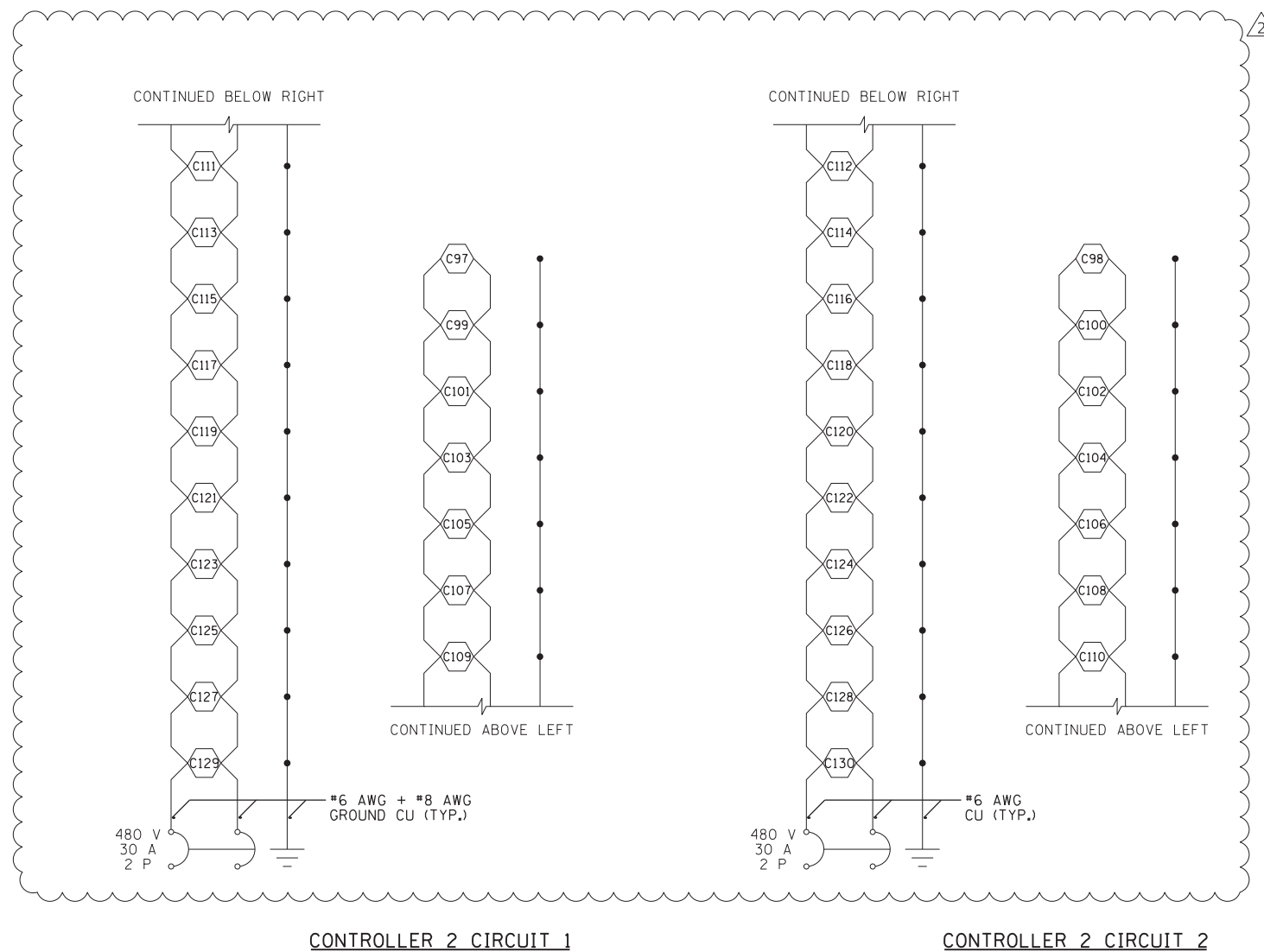
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PLOT DATE = 6/27/2022	DATE - 3/01/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270	
CONTROLLER 1 WIRING DIAGRAM	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. 270	SECTION 60B-1	COUNTY MADISON	TOTAL SHEETS 875	SHEET NO. 201
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

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CONTROLLER 2 AT CANAL BRIDGE WIRING DIAGRAM

REV. 06/28/22



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI-270
CONTROLLER 2 WIRING DIAGRAM**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	202
JOB NO. P-98-001-15		CONTRACT NO. 76J90		
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 125 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

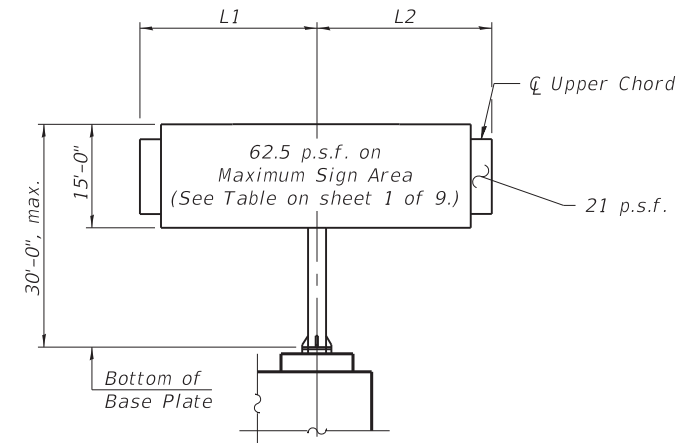
FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: See Bridge Plans.

TRUSS TYPE	MAXIMUM SIGN AREA	MAXIMUM LENGTH EACH WING
II-F-A	190 Sq. Ft.	30 Ft.



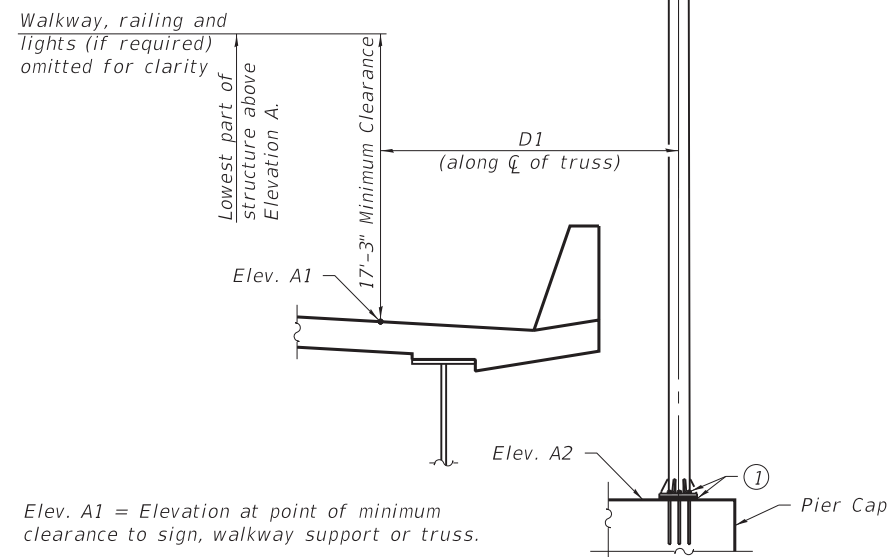
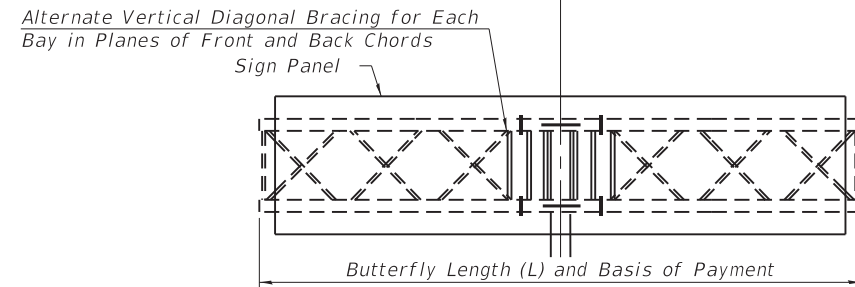
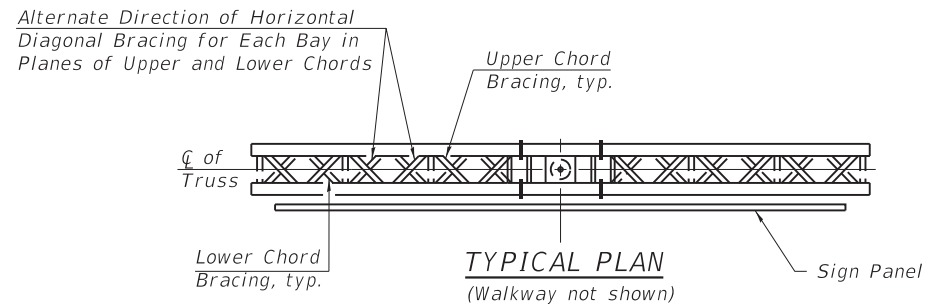
DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards
Installations not within dimensional limits shown
require special analysis for all components.

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

① After adjustments to level truss and insure adequate vertical clearance, all top and bottom leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Total Butterfly Length (L)	Elev. A1	Elev. A2	Dim. D1	Total Sign Area
8F0601270L035.5	2806+53.29	II-F-A	20'-6"	465.58	456.74	10'-3"	164 Sq. Ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE II-F-A	Foot	20.5
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	20.5

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USER NAME =	DESIGNED - A.H. Morinaga Mansilla	REVISED ② 6/28/2022 E.M.L.
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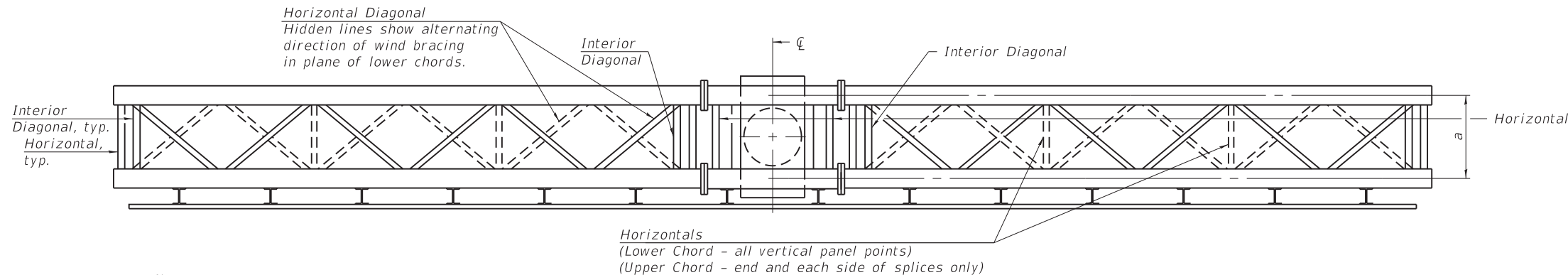
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTTERFLY SIGN STRUCTURES – PIER MOUNTED
GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL POST**

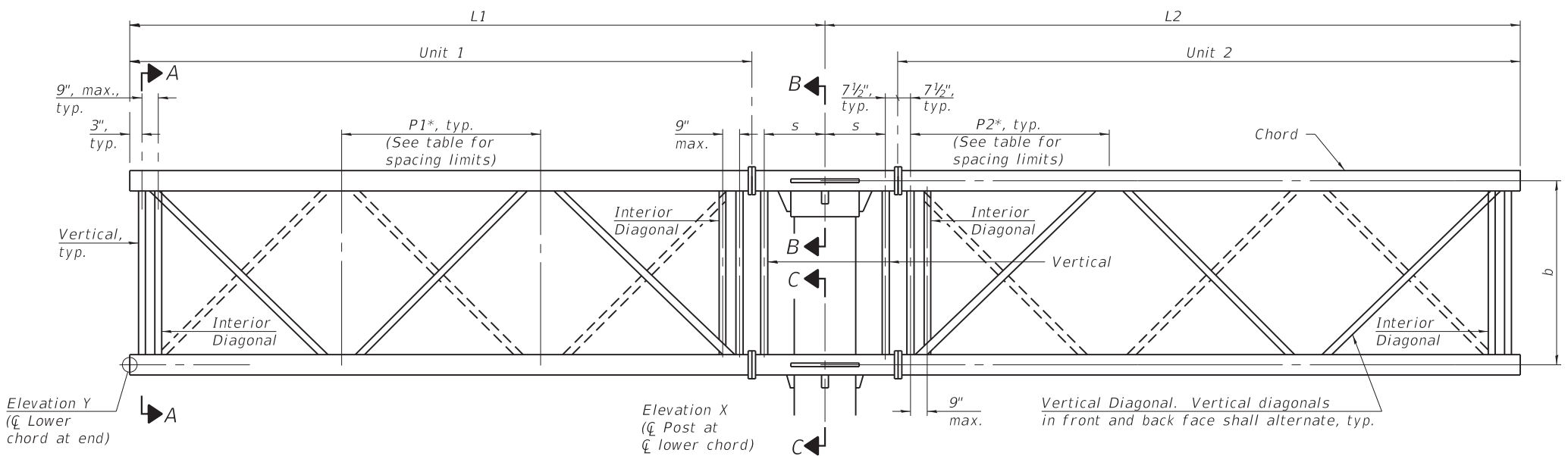
SHEET 1 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	205
CONTRACT NO. 76J90				

ILLINOIS FED. AID PROJECT



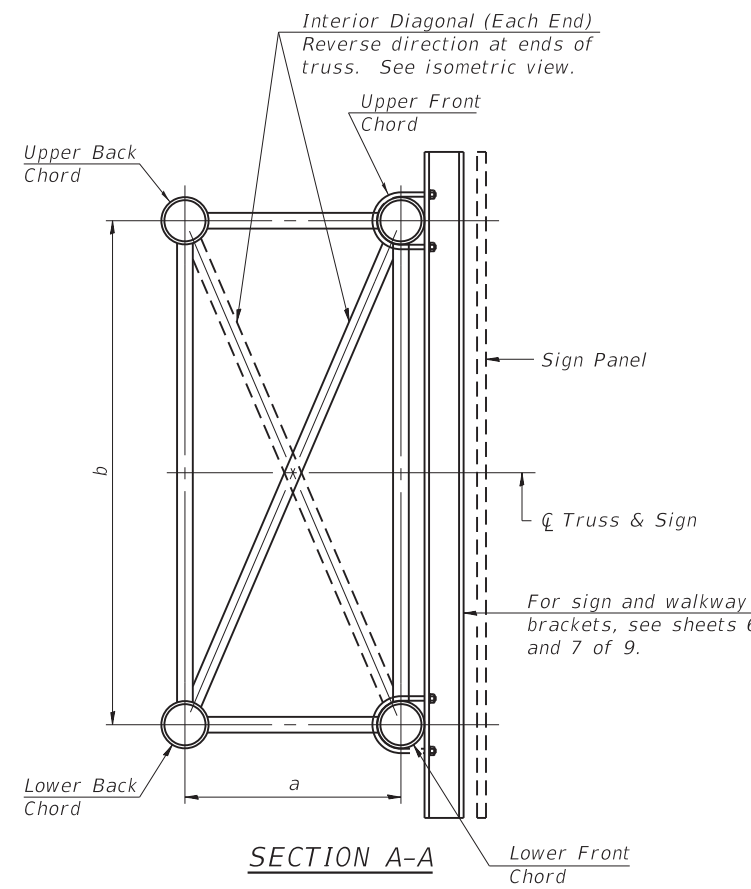
PLAN
(Walkway not shown)



ELEVATION
(Sign and walkway omitted for clarity)

TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet 05F-A-3.



SECTION A-A

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical Horizontals; and Interior Diagonals	
					O.D.	Wall		
II-F-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"

*P = $\frac{L-s-1'-6"}{\# \text{ Panels}}$

Structure Number	Station	Truss Type	L1	L2	Number of Panels Unit 1	Panel Length (P1)*	Number of Panels Unit 2	Panel Length (P2)*
8F0601270L035.5	2806+53.29	II-F-A	10'-3"	10'-3"	2	3'-6"	2	3'-6"

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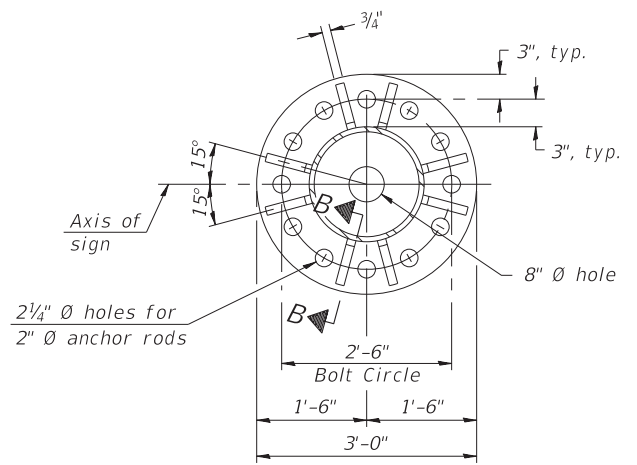
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STATE OF ILLINOIS
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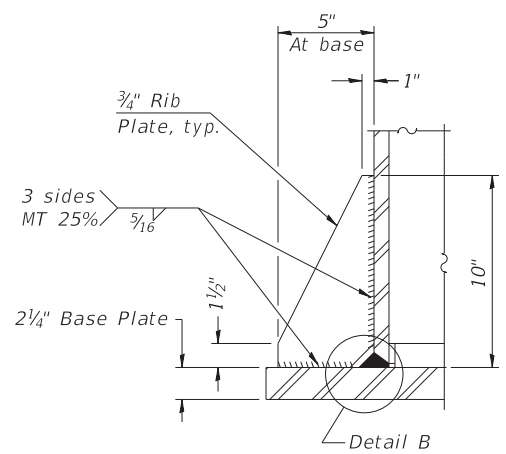
BUTTERFLY SIGN STRUCTURES
TRUSS DETAILS - ALUMINUM TRUSS & STEEL POST

SHEET 2 OF 9 SHEETS

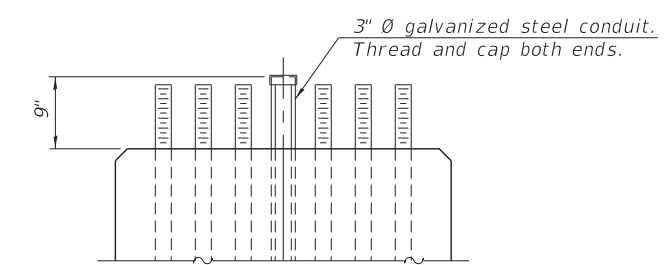
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CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				



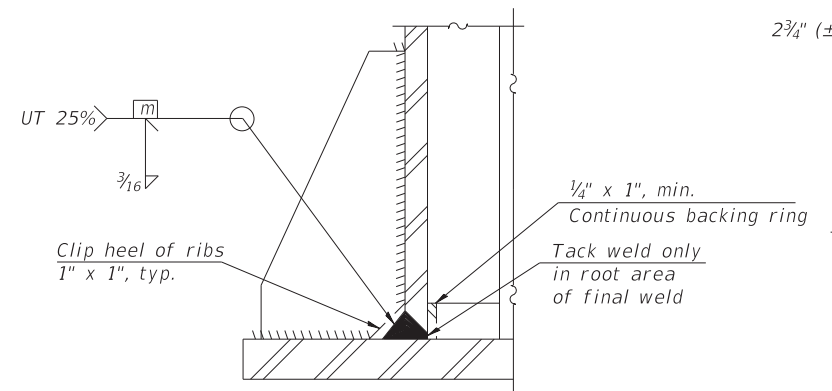
SECTION A-A



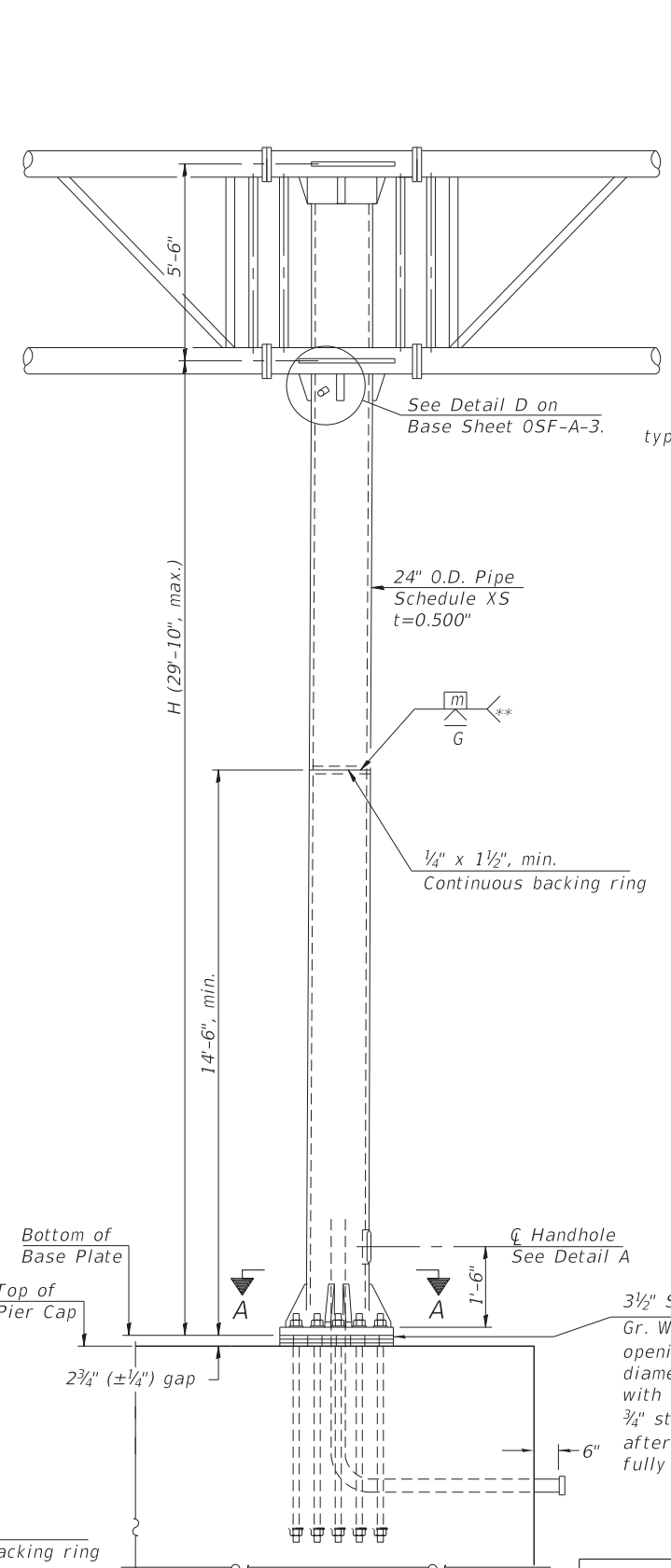
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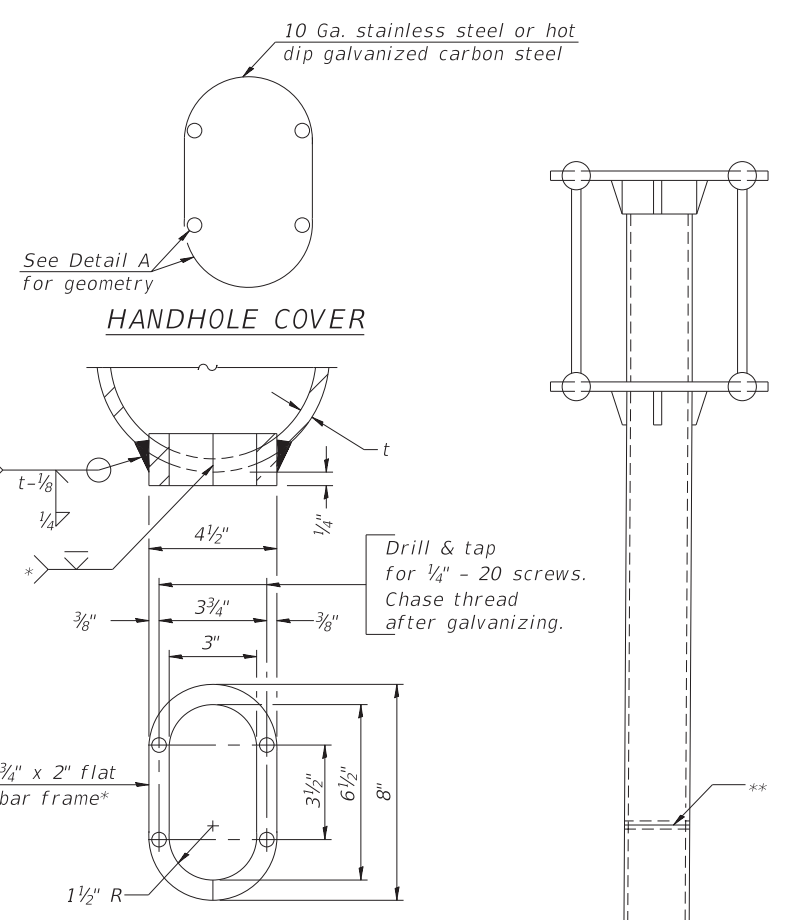
ELEVATION



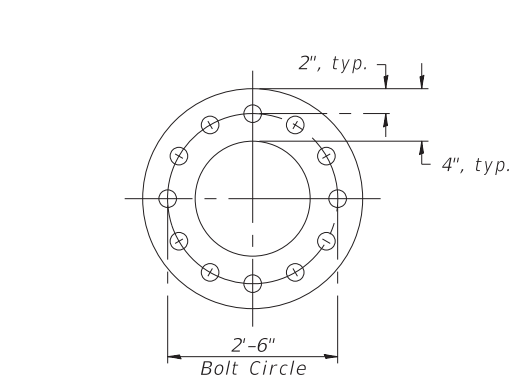
DETAIL B
(Typical rib)



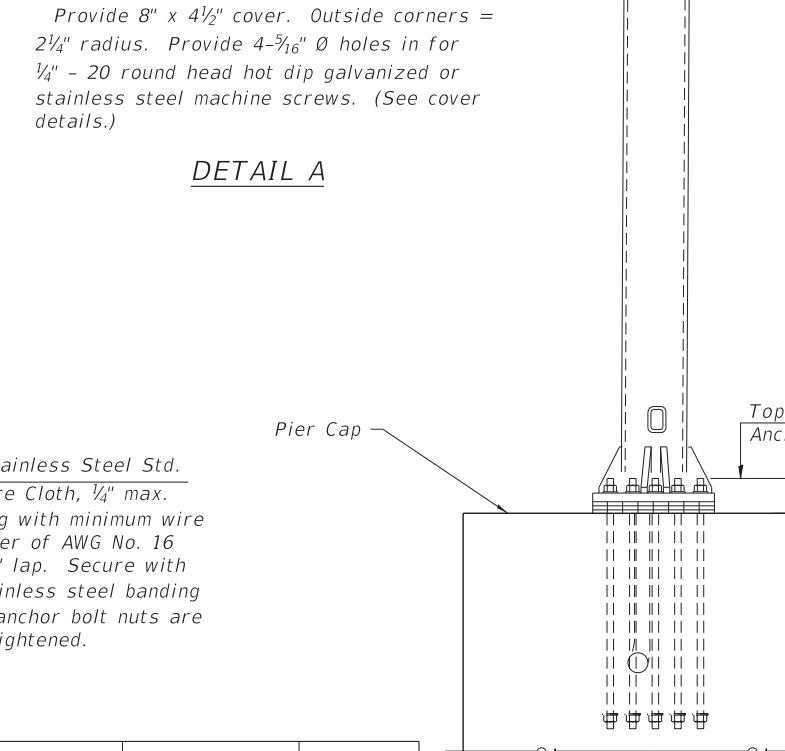
FRONT ELEVATION
(Sign not shown for clarity)



DETAIL A



SUGGESTED POSITIONING PLATE



SIDE ELEVATION

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.

** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Notes:
For Anchor Details between Pier Cap and Concrete Pedestal and grounding to Anchor Rods, see Bridge Contract Plans.
Grind Anchor Rod to bright finish at ground clamp location before installing clamp.

Structure Number	Station	H
8F0601270L035.5	2806+52.88	29'-8"

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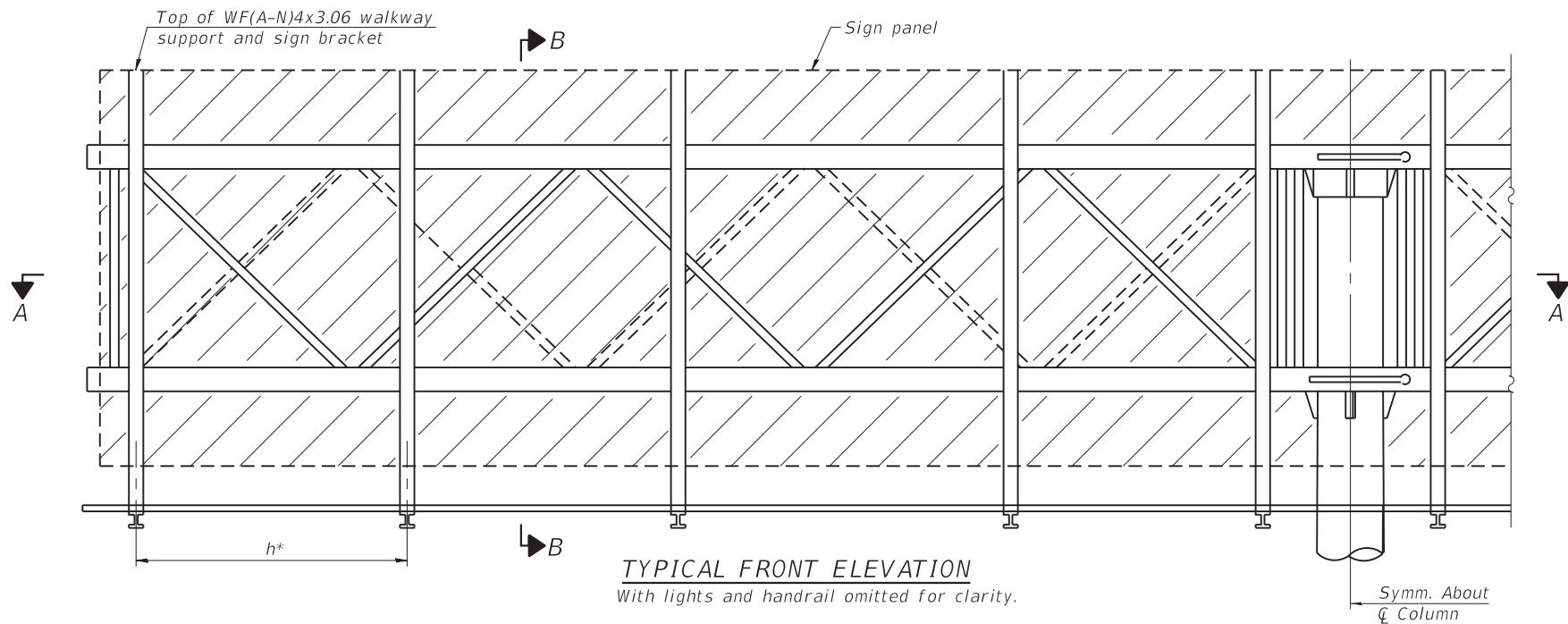


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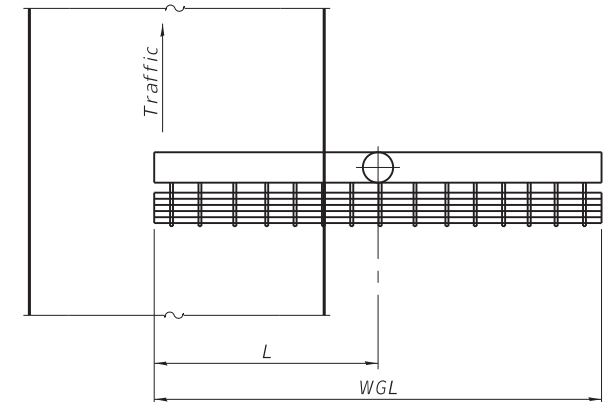
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTTERFLY SIGN STRUCTURES - MODIFIED PIER MOUNTED
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

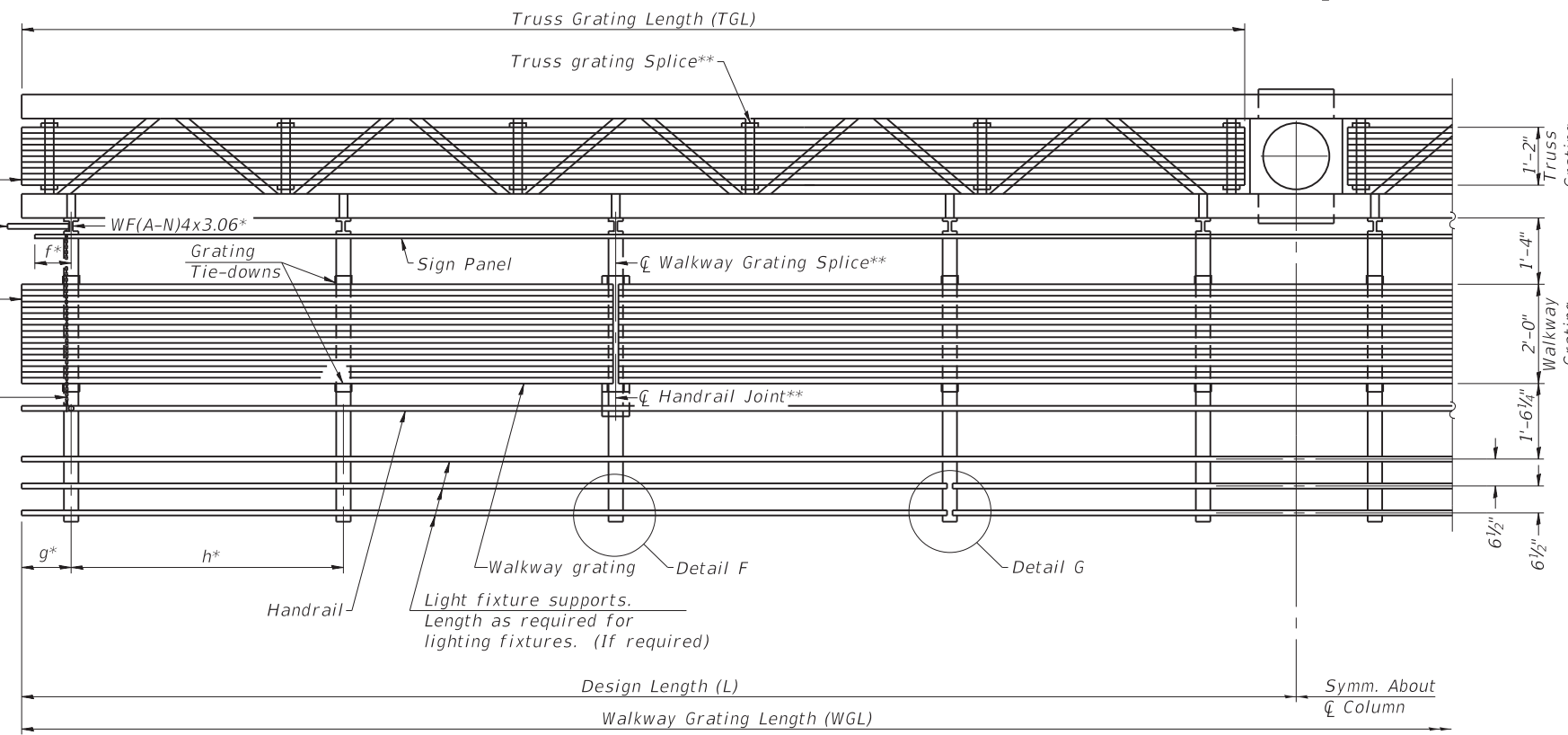
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	209
CONTRACT NO. 76190				



TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.
**Use and location of handrail joint or grating splices are optional, based on lengths needed and material availability.

$$TGL = 2*[L - (\frac{Post\ O.D.}{2} + 6'')]$$

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in "Overhead Sign Structure Butterfly".

Structure Number	Station	L	WGL	TGL
8F0601270L035.5	2806+53.29	10'-3"	20'-6"	17'-6"

Notes:
* Space sign and walkway support brackets WF(A-N)4x3.06 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to C of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to C of nearest bracket)
h = 6'-0" maximum (C to C sign and walkway support brackets, WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSF-A-8.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see sheet 7 of 9.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSF-A-8.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
8'-0"	8'-0"	2
14'-0"	14'-0"	3
20'-0"	20'-0"	4
26'-0"	26'-0"	5
32'-0"	32'-0"	6

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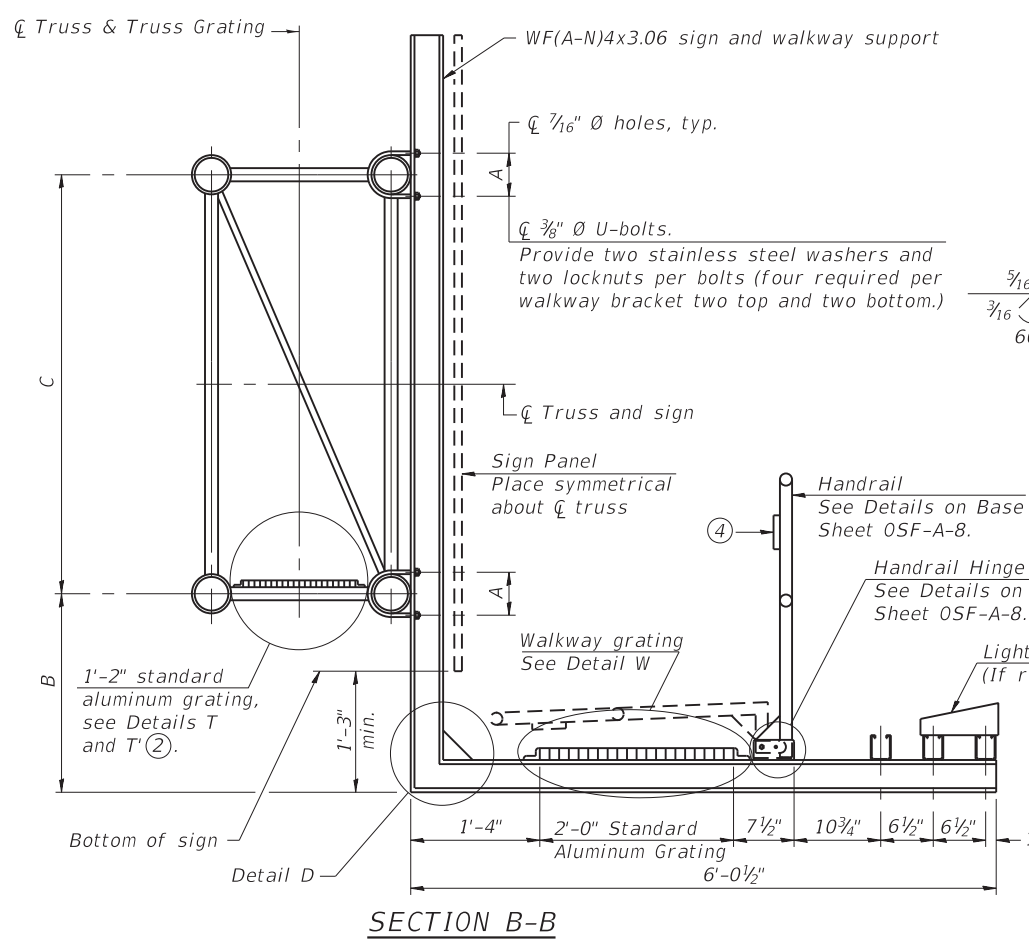
STATE OF ILLINOIS
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BUTTERFLY SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

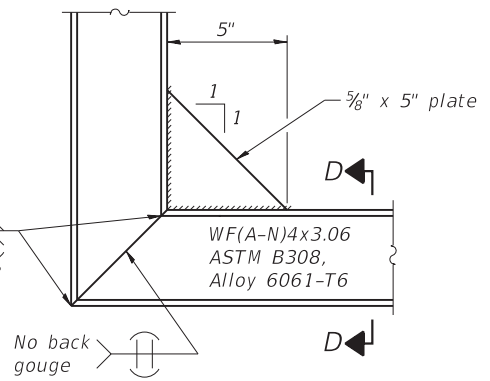
SHEET 6 OF 9 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

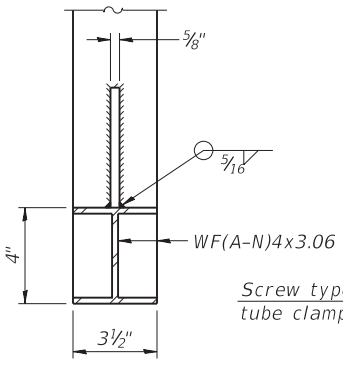
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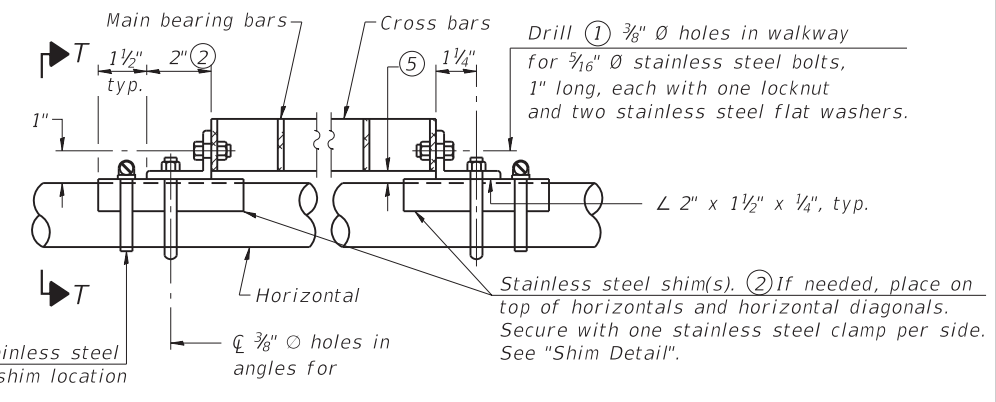
SECTION B-B



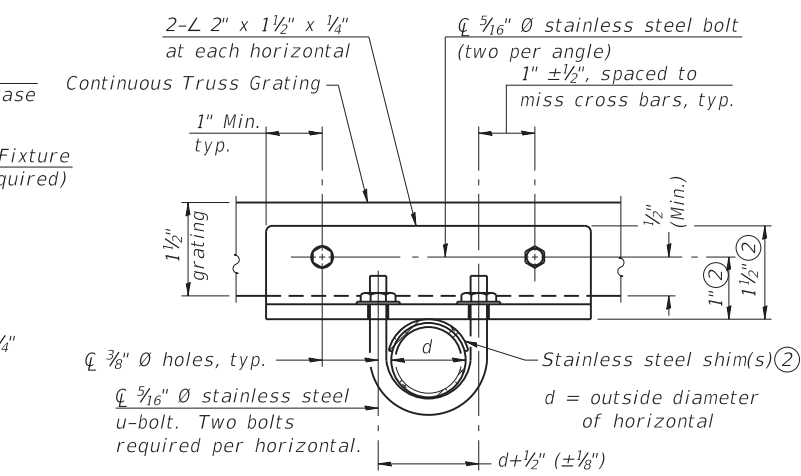
DETAIL D



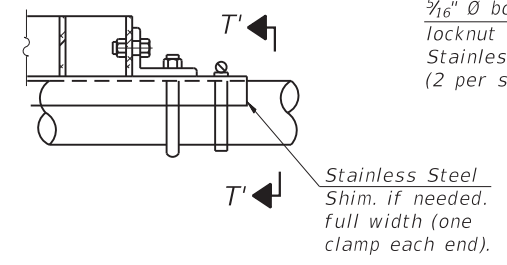
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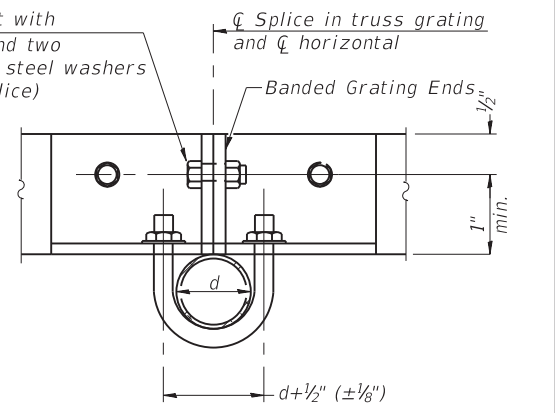
DETAIL T
(Truss grating at horizontal)



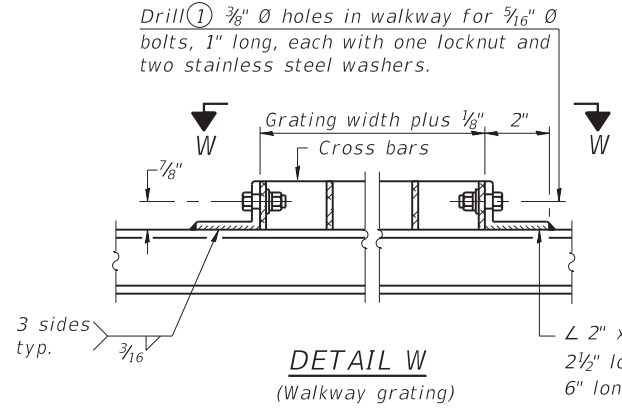
SECTION T-T



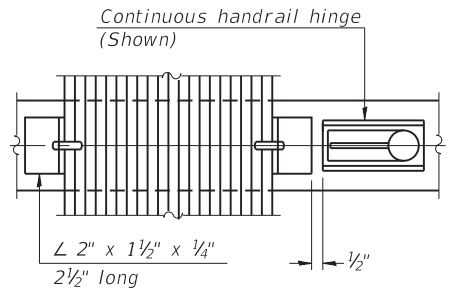
DETAIL T'
(Truss grating splice)
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



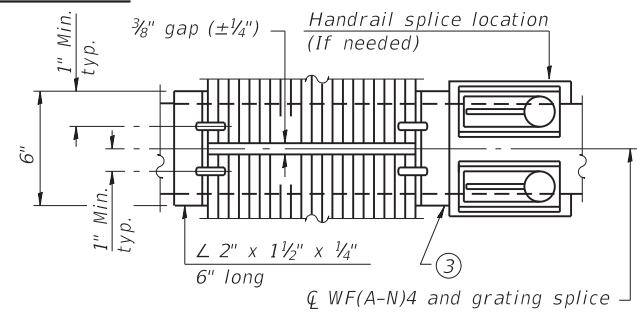
SECTION T'-T'



DETAIL W
(Walkway grating)



(CONTINUOUS WALKWAY GRATING)



(AT WALKWAY GRATING SPLICE)

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING
 Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.
 OR
 Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Sign shall be even with the top of the bracket, but it may extend to no more than 6" above the top of the bracket for field adjustments.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSF-A-8)
- ④ R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2" max. to align walkway, allow for camber, etc.
- ⑥ Based on actual sign height, Ds, given on sheet 1 of 9.

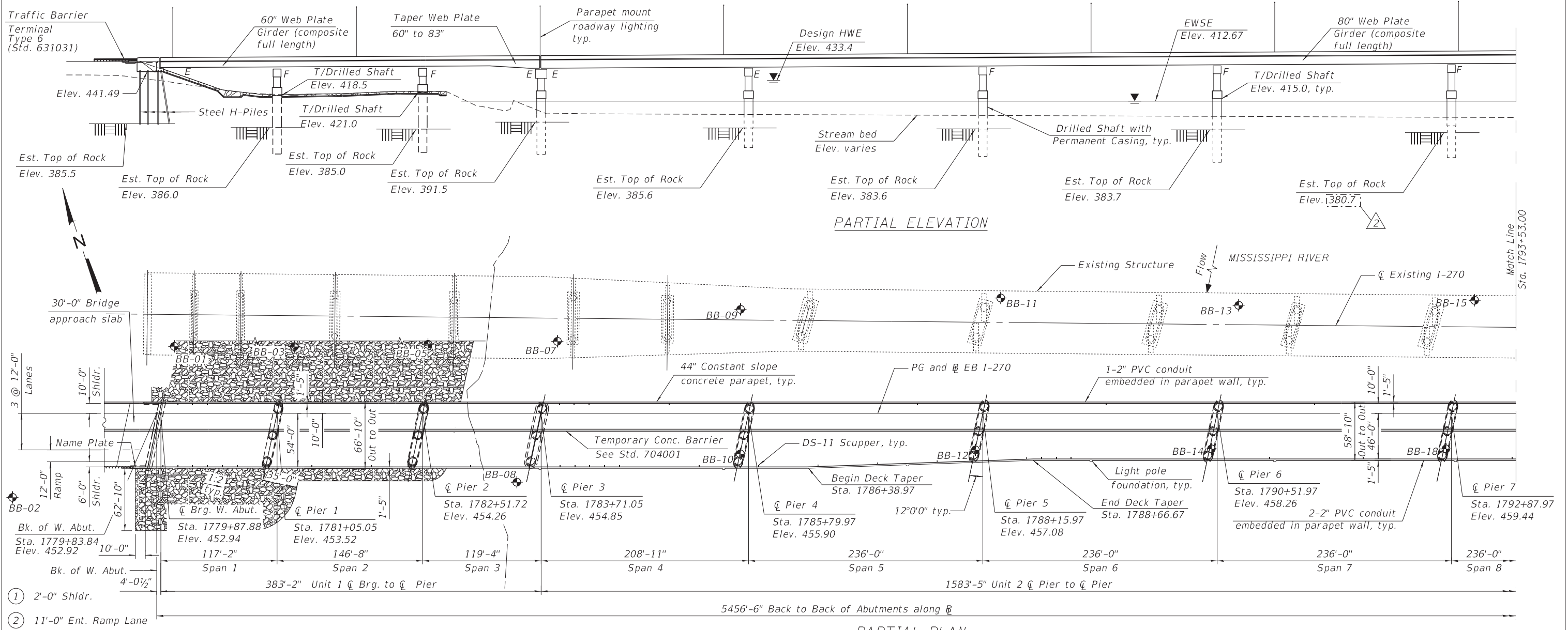
SECTION W-W

Structure Number	Station	A	B	⑥ C
8F0601270L035.5	2806+53.29	3 3/4"	3'-9"	5'-6"

Notes:
 All Elevations are given in NAVD 1988 Datum unless noted.
 NAVD 1988 = NGVD 1929 - 0.20'.
 EWSE = Estimated Water Surface Elevation.
 HWE = High Water Elevation.
 ♦ Denotes soil boring.

For slope protection plan and details, see sheet 12 of 292 .

Up to 1/4 inch may be ground off the bridge deck and the bridge approach slabs.



DRAINAGE LOCATIONS - I-270 EB

PARTIAL PLAN

Drainage Type	Span	Station	Offset	Drainage Type	Span	Station	Offset	Drainage Type	Span	Station	Offset
DS-11	1	1779+90.00	54.00' Rt.	DS-11	4	1784+04.39	10.00' Lt.	DS-11	5	1787+49.97	10.00' Lt.
DS-11	1	1780+05.00	10.00' Lt. & 54.00' Rt.	DS-11	4	1784+05.00	54.00' Rt.	DS-11	5	1787+70.00	48.62' Rt.
DS-11	1	1780+20.00	10.00' Lt. & 54.00' Rt.	DS-11	4	1784+19.39	10.00' Lt.	DS-11	6	1788+60.00	46.22' Rt.
DS-11	1	1780+35.00	10.00' Lt. & 54.00' Rt.	DS-11	4	1784+20.00	54.00' Rt.	DS-11	6	1788+75.00	46.00' Rt.
DS-11	1	1780+50.00	54.00' Rt.	DS-11	4	1784+35.00	54.00' Rt.	DS-11	6	1788+90.00	46.00' Rt.
DS-11	1	1780+65.00	54.00' Rt.	DS-11	4	1784+50.00	54.00' Rt.	DS-11	6	1789+05.00	46.00' Rt.
DS-11	2	1781+40.00	54.00' Rt.	DS-11	4	1784+99.97	10.00' Lt.	DS-11	6	1789+39.97	10.00' Lt.
DS-11	2	1782+00.00	54.00' Rt.	DS-11	4	1785+30.00	54.00' Rt.	DS-11	7	1791+05.00	46.00' Rt.
DS-11	3	1783+00.00	54.00' Rt.	DS-11	5	1785+90.00	53.42' Rt.	DS-11	7	1791+49.97	10.00' Lt.
DS-11	4	1783+89.39	10.00' Lt.	DS-11	5	1786+50.00	51.82' Rt.	DS-11	7	1791+99.15	46.00' Rt.
DS-11	4	1783+90.00	54.00' Rt.	DS-11	5	1787+10.00	50.22' Rt.	DS-11	8	1793+49.15	46.00' Rt.

GENERAL PLAN & ELEVATION - 1
 I-270 OVER THE MISSISSIPPI RIVER
 PUBLIC WATER
 F.A.I. Rte 270 - SEC. 60B-1
 MADISON (IL) AND ST. LOUIS (MO) COUNTIES
 STATION 1807+12.09
 STRUCTURE NO. 060-0350 (EB)

Lane configuration shown for the Ultimate 6-Lane configuration in anticipation of project approval of current 6-lane study for I-270.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION - 1
 STRUCTURE NO. 060-0350 (EB)

SHEET 2 OF 292 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	215
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.		11,222	11,222
Filter Fabric	Sq. Yd.		11,222	11,222
Structure Excavation	Cu. Yd.		616	616
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.		12,741.9	12,741.9
Concrete Superstructure	Cu. Yd.	10,948.2		10,948.2
Concrete Encasement	Cu. Yd.		14.7	14.7
Protective Coat	Sq. Yd.	40,392		40,392
Concrete Superstructure (Approach Slab)	Cu. Yd.	173.5		173.5
Furnishing and Erecting Structural Steel Bridge No. 1	L Sum	1		1
Stud Shear Connectors	Each	98,024		98,024
Reinforcement Bars, Epoxy Coated	Pound	3,573,820	7,755,540	11,329,360
Mechanical Splicers	Each		7,502	7,502
Furnishing Steel Piles HP12X63	Foot		2,097	2,097
Furnishing Steel Piles HP12X84	Foot		1,140	1,140
Driving Piles	Foot		3,237	3,237
Test Pile Steel HP12X63	Each		1	1
Test Pile Steel HP12X84	Each		2	2
Pile Shoes	Each		42	42
Name Plates	Each	1		1
Permanent Casing	Foot		4,405	4,405
Drilled Shaft in Soil	Cu. Yd.		10,017	10,017
Drilled Shaft in Rock	Cu. Yd.		3,500	3,500
Preformed Joint Strip Seal	Foot	127.5		127.5
Elastomeric Bearing Assembly, Type I	Each	26		26
Elastomeric Bearing Assembly, Type III	Each	37		37
Anchor Bolts, 1 1/4"	Each	410		410
Anchor Bolts, 1 1/2"	Each	84		84
Anchor Bolts, 2"	Each	152		152
Temporary Sheet Piling	Sq. Ft.		5,910	5,910
Granular Backfill for Structures	Cu. Yd.		340	340
Concrete Sealer	Sq. Ft.		26,224	26,224
Geocomposite Wall Drain	Sq. Yd.		189	189
Pipe Underdrains for Structures 4"	Foot		175	175
Drainage Scuppers, DS-11	Each	85		85
Diamond Grinding (Bridge Section)	Sq. Yd.	33,363		33,363
Modular Expansion Joint 12"	Foot	66		66
Modular Expansion Joint 18"	Foot	58		58
Modular Expansion Joint 27"	Foot	116		116
Crosshole Sonic Logging Access Ducts	Foot		5,912	5,912
Crosshole Sonic Logging Testing	Each		75	75
Construction Vibration Monitoring	L Sum			0.5
Thermal Integrity Profile Testing	Each		8	8
Thermal Integrity Profile Data Collection	Foot		5,912	5,912
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	23,084		23,084
High Load Multi-Rotational Bearings, Guided Expansion - 850K	Each	24		24
High Load Multi-Rotational Bearings, Guided Expansion - 900K	Each	13		13
High Load Multi-Rotational Bearings, Fixed - 550K	Each	14		14
High Load Multi-Rotational Bearings, Fixed - 850K	Each	54		54
High Load Multi-Rotational Bearings, Fixed - 900K	Each	25		25

2

2

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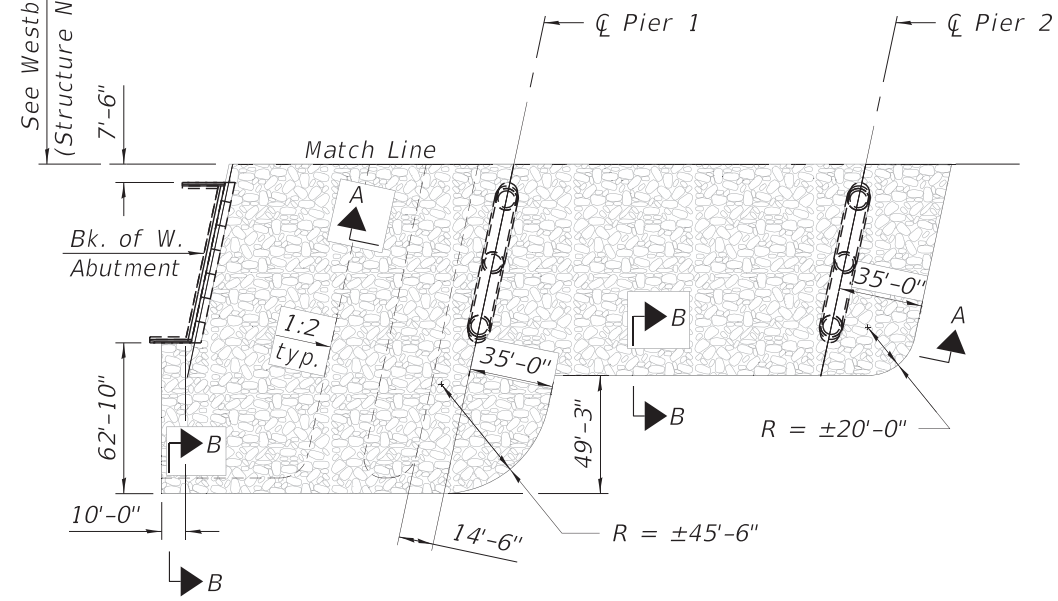
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DEPARTMENT OF TRANSPORTATION**

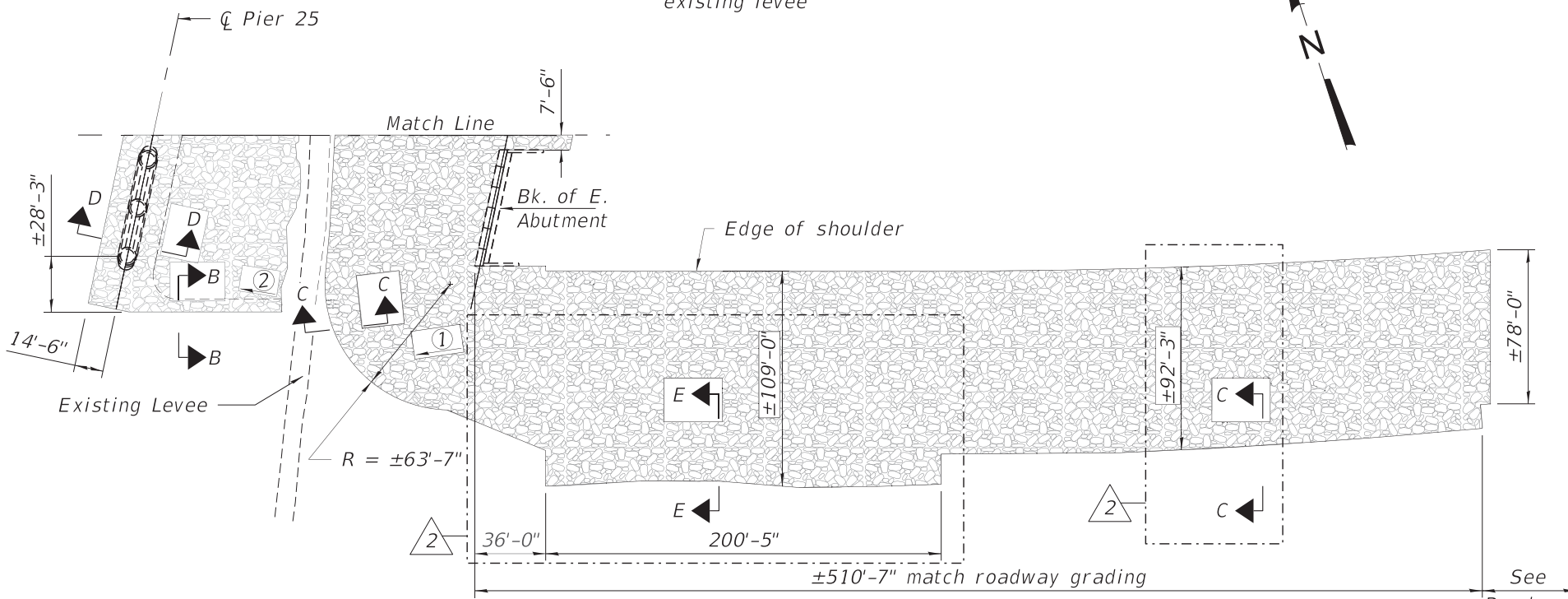
**TOTAL BILL OF MATERIAL
STRUCTURE NO. 060-0350 (EB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	222
CONTRACT NO. 76190				
ILLINOIS FED. AID PROJECT				

See Westbound Plans
(Structure No. 060-0351)



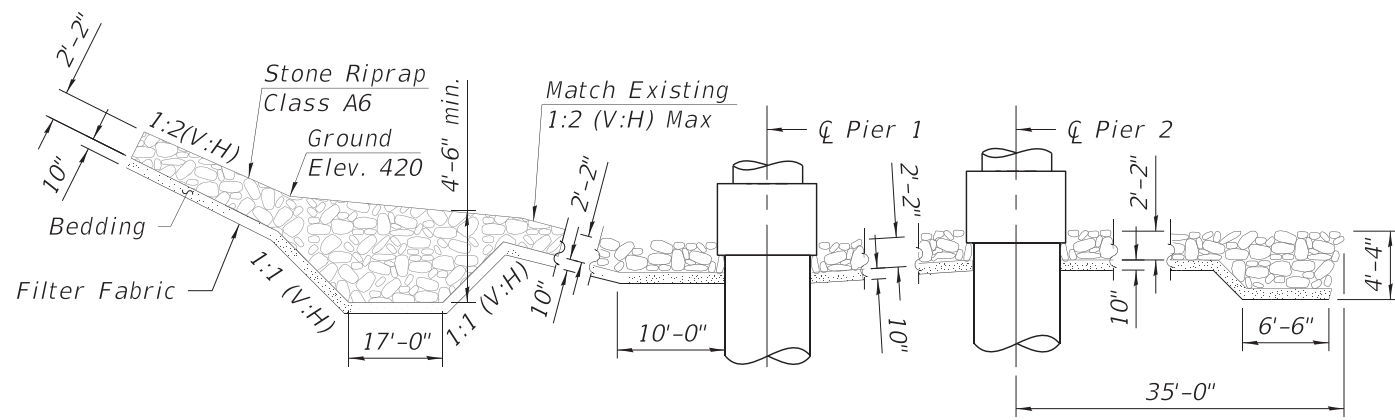
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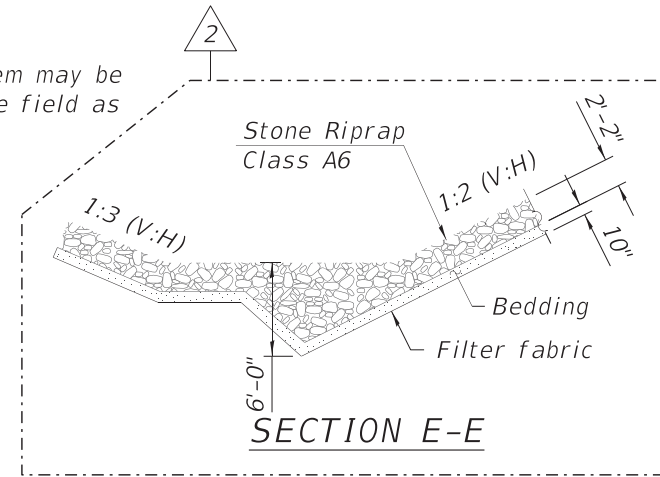
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PLAN OF RIPRAP

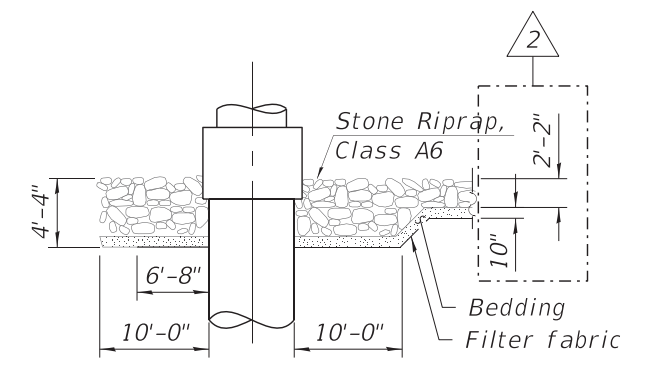
Note:
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.



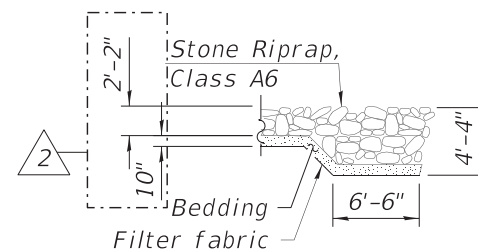
SECTION A-A



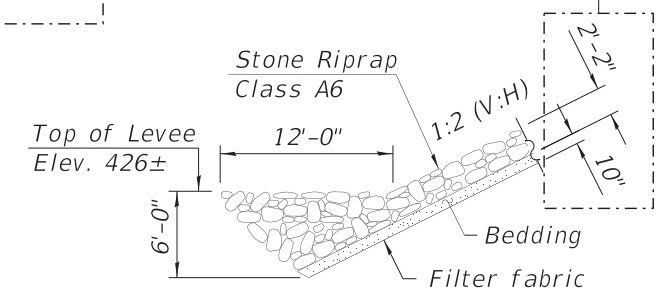
SECTION E-E



SECTION D-D



SECTION B-B



SECTION C-C

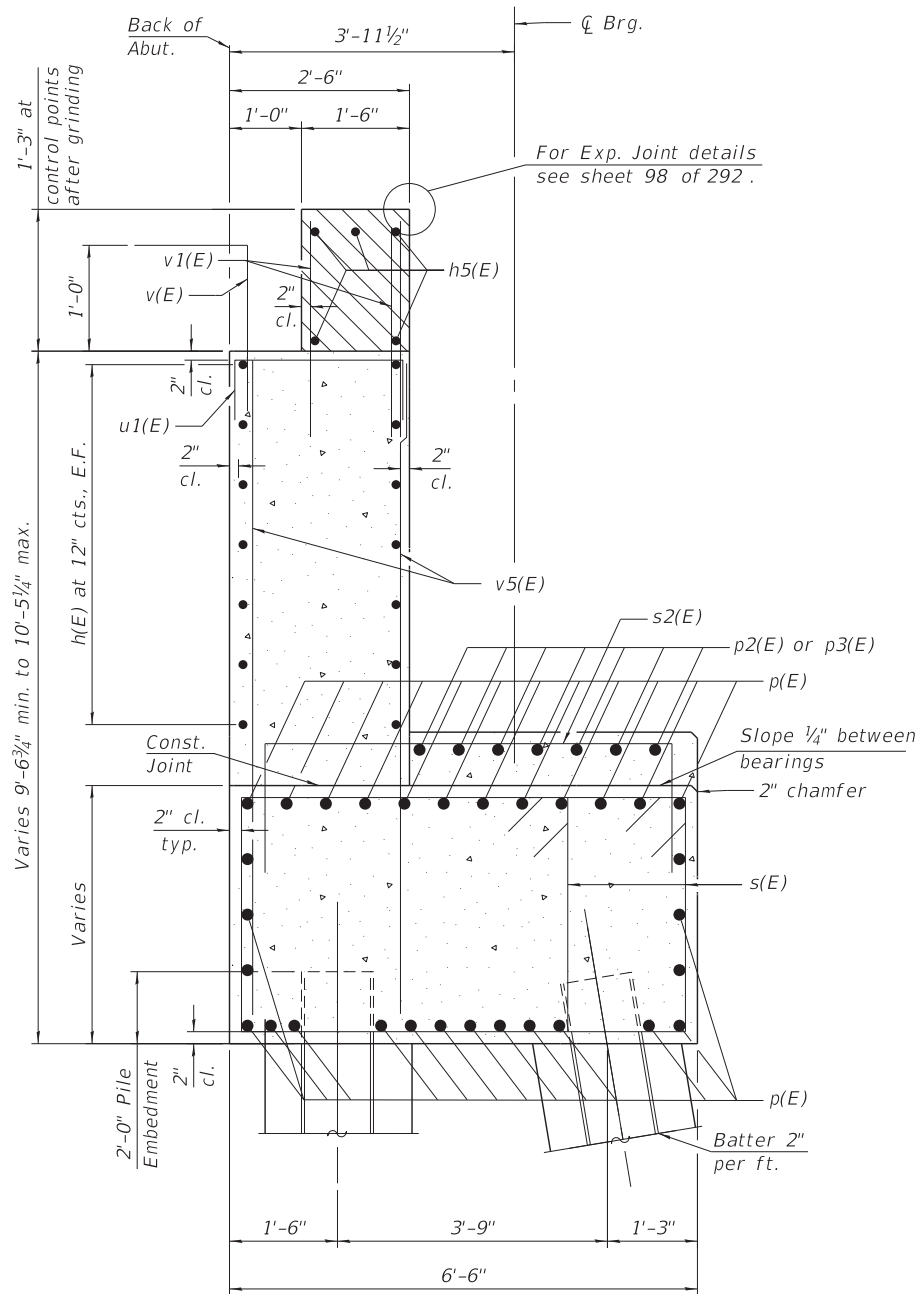
- ① Riprap slope varies. Max at 1V:2H at right angles
- ② Riprap placed on existing west face of levee. Approximate slope 1V:2H at right angles to existing levee



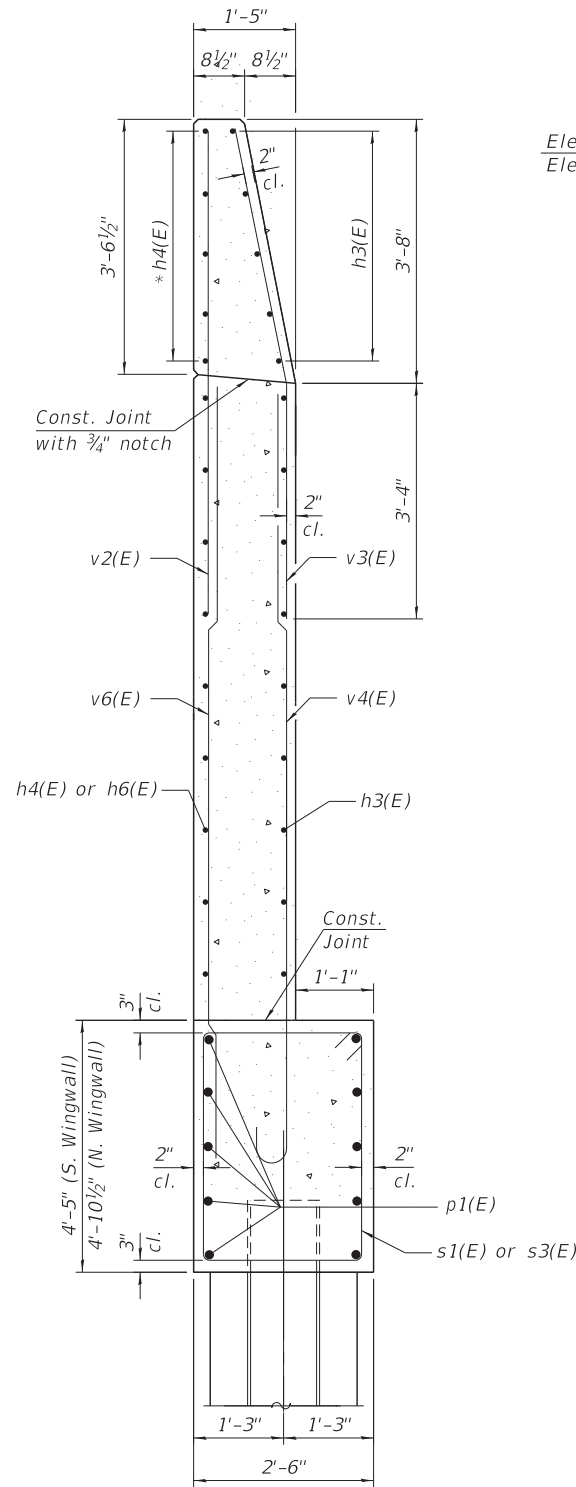
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	225
CONTRACT NO. 76190				

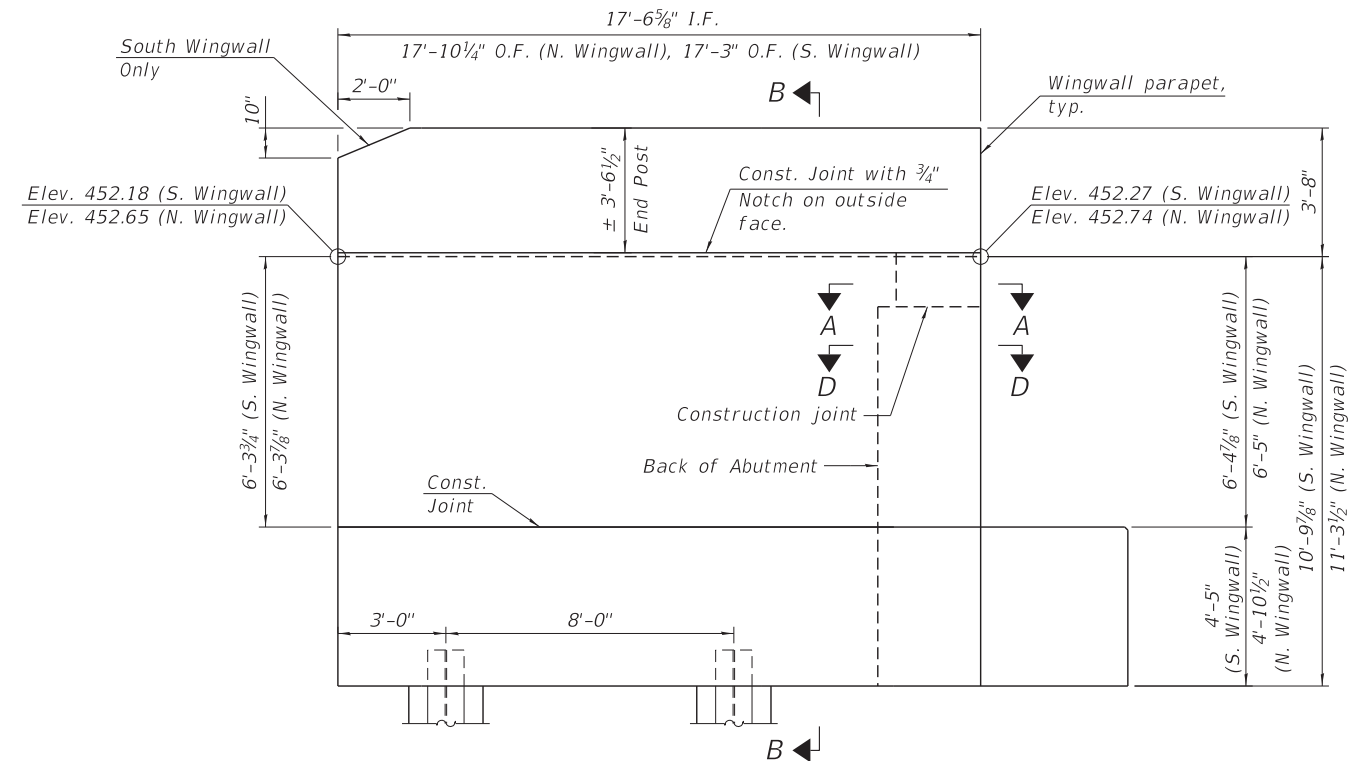


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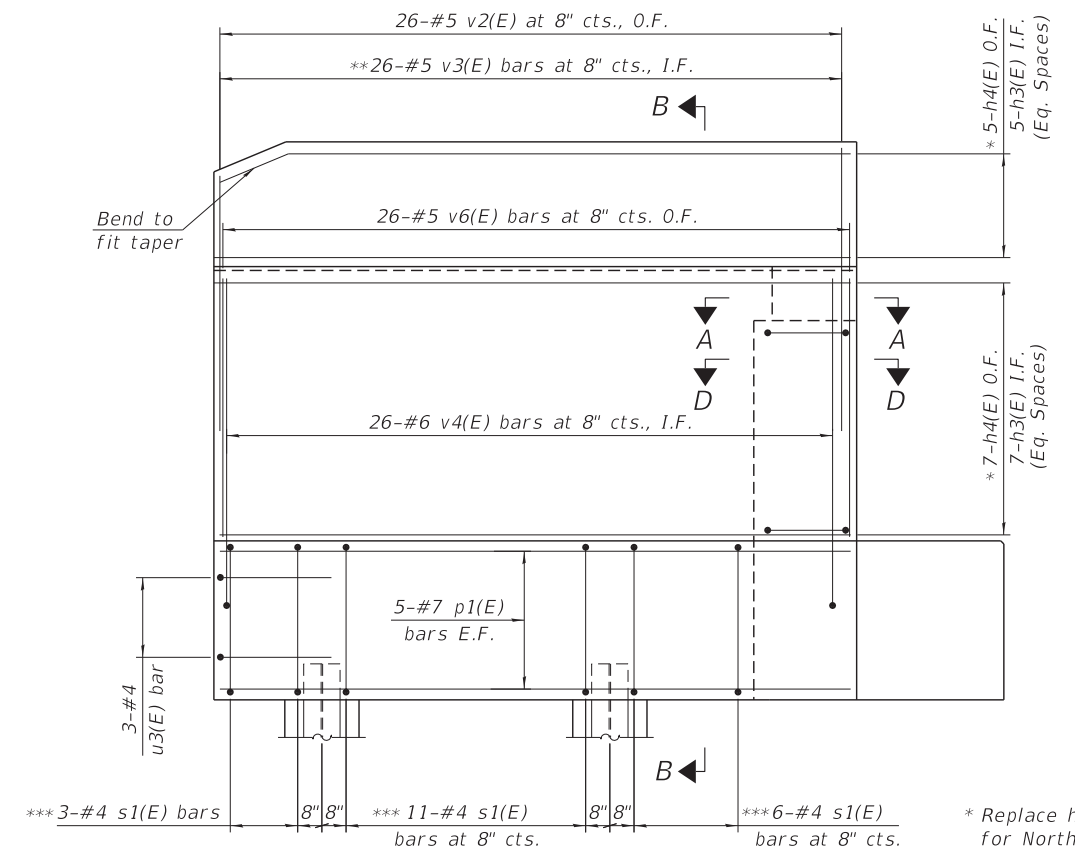


SECTION B-B

Notes:
 Hatched area to be poured after superstructure false work has been removed and after the approach slab side formwork has been removed. Quantity of concrete in wingwall parapet and hatched area included Concrete Superstructure on sheet 92 of 292.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 247 of 292.
 The top of backwall 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.
 For Section A-A and D-D, see Sheet 165 of 292.



WINGWALL ELEVATION
 Showing Dimensions
 (South shown, North wingwall similar)



WINGWALL ELEVATION
 Showing Reinforcement
 (South shown, North wingwall similar)

* Replace h4(E) with h6(E) for North Wingwall
 ** Field cut at taper
 *** Replace s1(E) with s3(E) for North Wingwall

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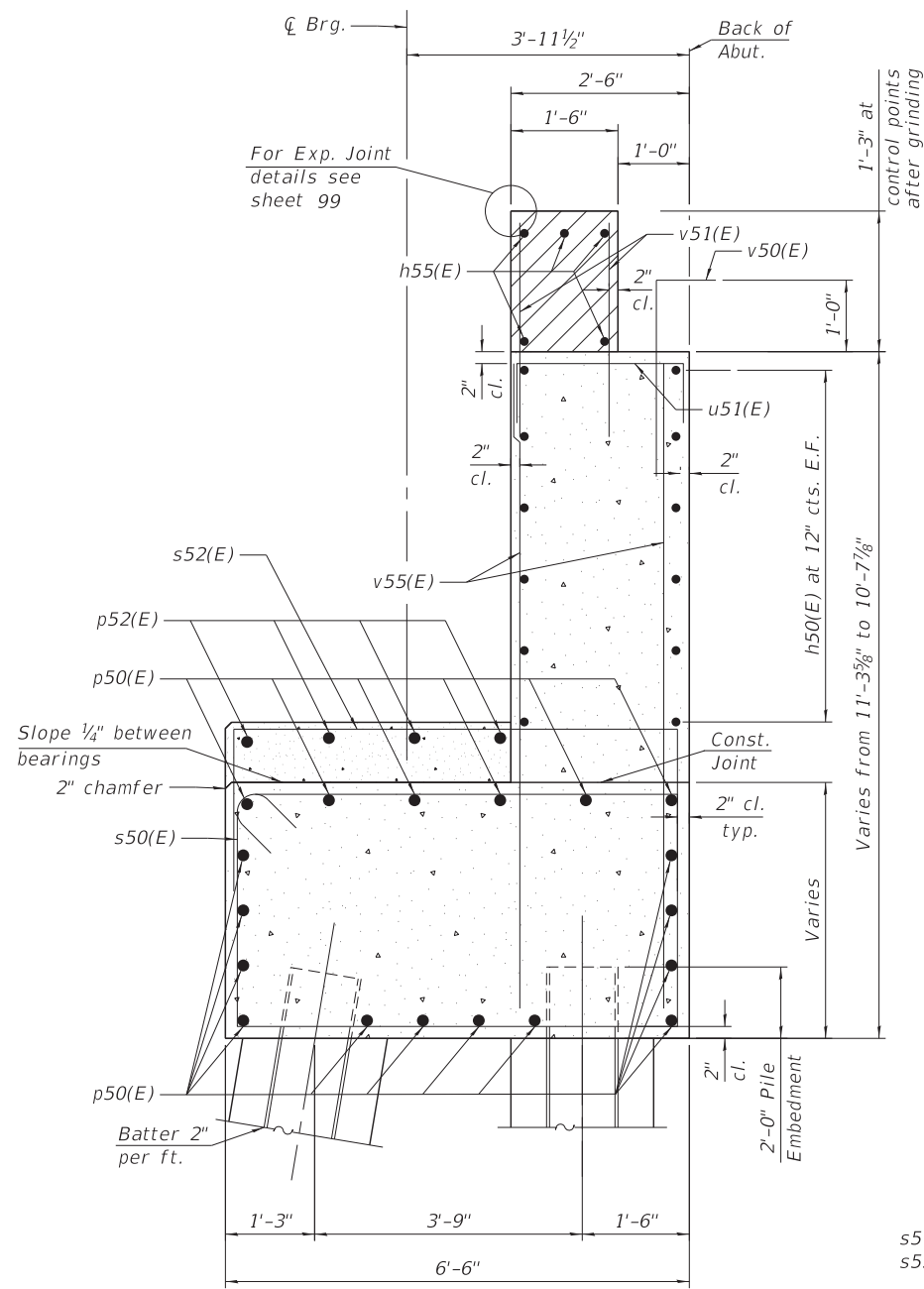
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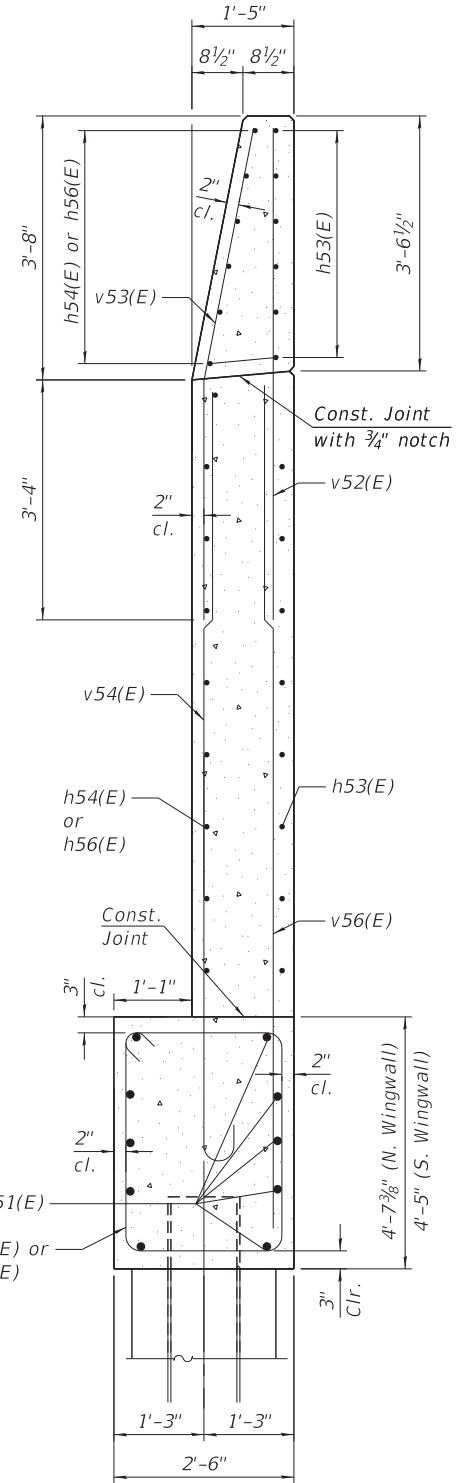
WEST ABUTMENT WINGWALL DETAILS
 STRUCTURE NO. 060-0350 (EB)

SHEET 164 OF 292 SHEETS

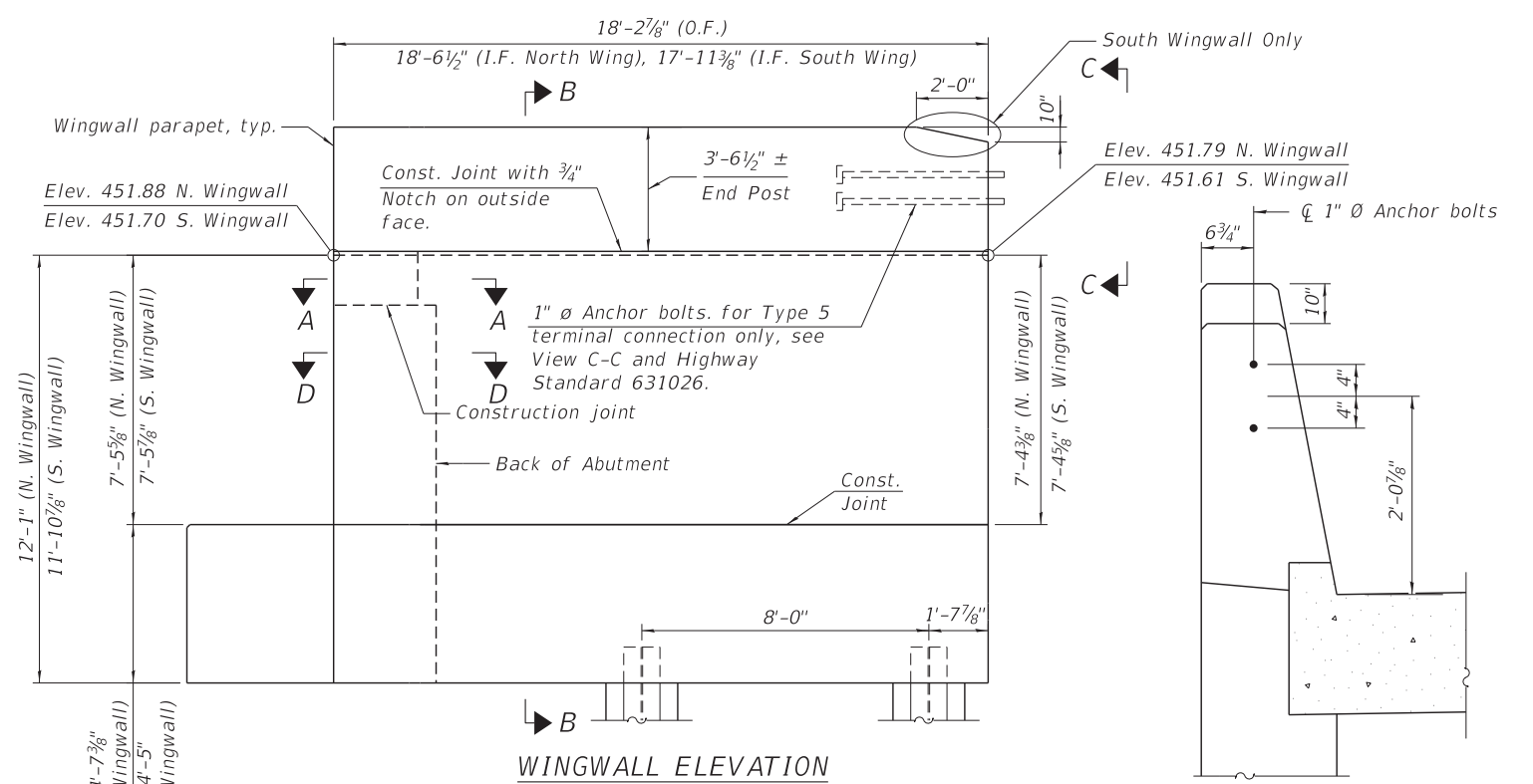
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	377
CONTRACT NO. 76190				
ILLINOIS FED. AID PROJECT				



SECT. THRU ABUT.



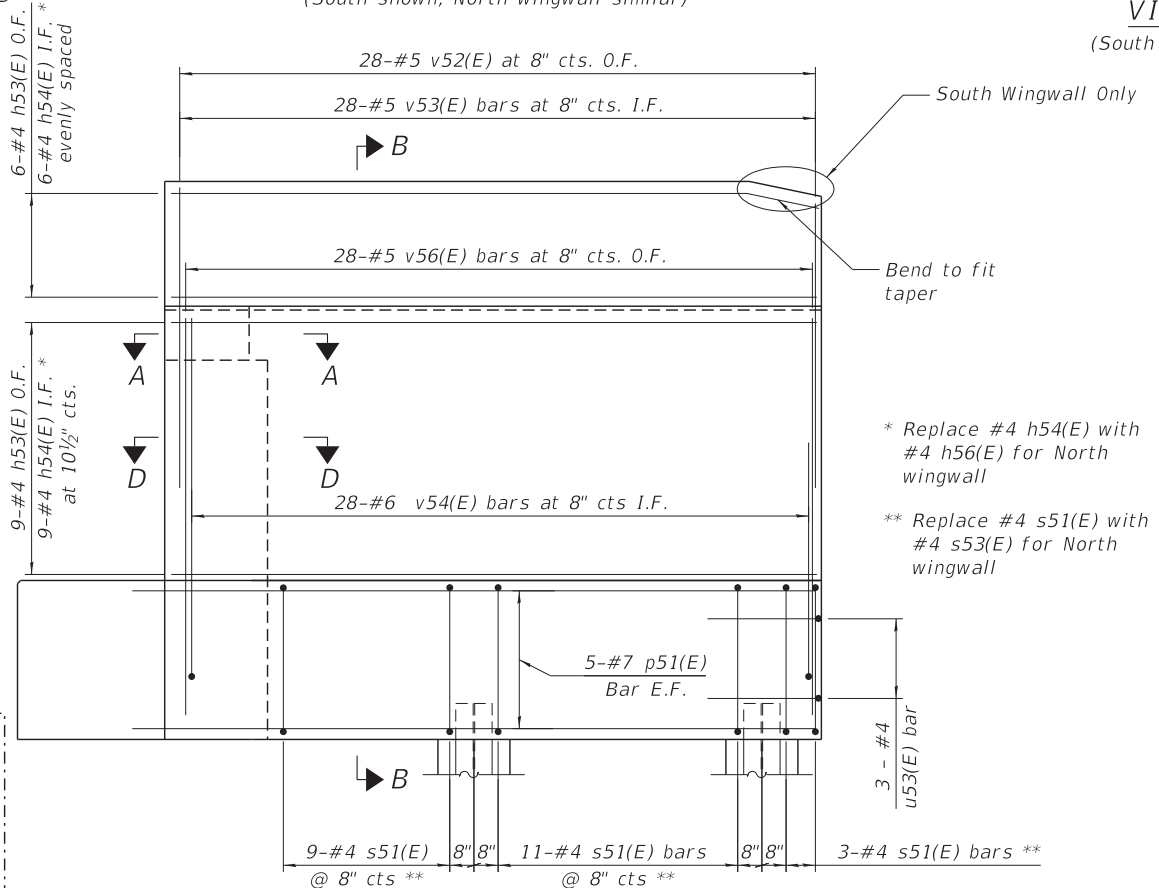
SECTION B-B



WINGWALL ELEVATION

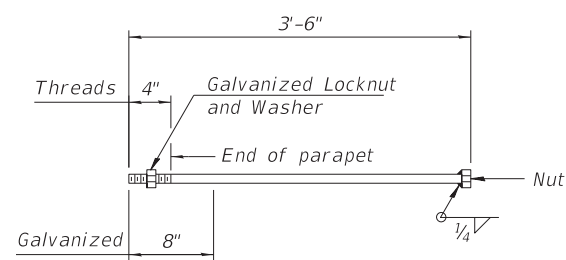
Showing Dimensions
(South shown, North wingwall similar)

VIEW C-C
(South Wingwall Only)



WING WALL ELEVATION

Showing Reinforcement
(South shown, North wingwall similar)



1" Ø ANCHOR BOLT

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

Notes:
 Hatched area to be poured after superstructure false work has been removed and after approach slab formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 93 of 292.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 247 of 292.
 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.
 For Section A-A, see sheet 168 of 292.

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STATE OF ILLINOIS
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EAST ABUTMENT WINGWALL DETAILS
 STRUCTURE NO. 060-0350 (EB)

SHEET 167 OF 292 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	380
CONTRACT NO. 76190				
ILLINOIS FED. AID PROJECT				

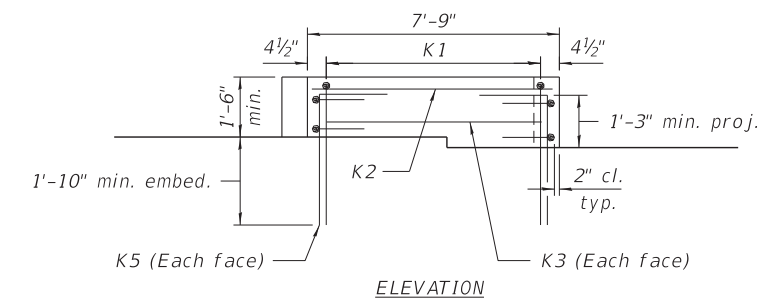
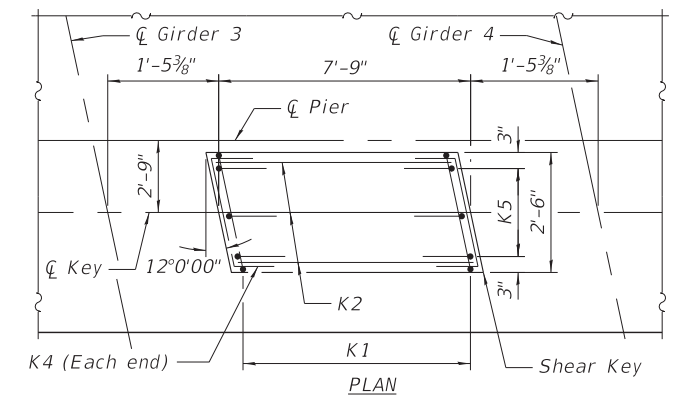
TABLE 1

	Pier 6	Pier 7	Pier 8
Centerline Pier Station	1790+51.97	1792+87.97	1795+23.97
Bearing Seat Elevation	Girder 1	448.91	450.10
	Girder 2	449.11	450.30
	Girder 3	449.27	450.46
	Girder 4	449.05	450.25
	Girder 5	448.83	450.03
Girder 7	448.61	449.81	450.97
Top of Cap Elevation	448.61	449.81	450.97
Bottom of Cap Elevation	440.61	441.81	442.97
Column Height	13'-7 ³ / ₈ "	14'-9 ³ / ₄ "	15'-11 ³ / ₈ "
Top of Shaft Elevation	415.00	415.00	415.00
Approx. Tip Elevation	358.20	355.20	347.00
Est. Ground Surface Elevation	387.60	400.00	385.80
Est. Top of Rock Elevation	383.70	380.70	372.50
Min. bott. of Permanent Casing Elev.	381.70	378.70	370.50
Dim. X	33'-3 ⁵ / ₈ "	36'-3 ⁵ / ₈ "	44'-6"
Dim. Y	31'-3 ⁵ / ₈ "	34'-3 ⁵ / ₈ "	42'-6"
Dim. Z	25'-6"	25'-6"	25'-6"



TABLE 1 (CONT.)

Step Height	Pier 6	Pier 7	Pier 8
S1	2 ³ / ₈ "	2 ³ / ₈ "	2 ³ / ₈ "
S2	1 ⁷ / ₈ "	1 ⁷ / ₈ "	2"
S3	2 ⁵ / ₈ "	2 ¹ / ₂ "	2 ⁵ / ₈ "
S4	2 ⁵ / ₈ "	2 ⁵ / ₈ "	2 ¹ / ₂ "
S5	2 ⁵ / ₈ "	2 ⁵ / ₈ "	2 ³ / ₄ "



SHEAR KEY DETAILS

PIER 6

PIER 7

PIER 8

Mark	Bar Callouts	Bar Callouts	Bar Callouts
(1)	43 sets of 1-#6 s601(E) and 1-#6 s605(E) at 5" cts.	43 sets of 1-#6 s701(E) and 1-#6 s705(E) at 5" cts.	43 sets of 1-#6 s801(E) and 1-#6 s805(E) at 5" cts.
(2)	14 sets of 2-#6 s602(E) at 6" cts.	14 sets of 2-#6 s702(E) at 6" cts.	14 sets of 2-#6 s802(E) at 6" cts.
(3)	6 sets of 4-#6 s607(E) at 5" cts.	6 sets of 4-#6 s707(E) at 5" cts.	6 sets of 4-#6 s807(E) at 5" cts.
(4)	47-#6 s608(E) at abt. 8" cts.	47-#6 s708(E) at abt. 8" cts.	47-#6 s808(E) at abt. 8" cts.
(5)	33 sets of 1-#6 s603(E) and 2-#6 s606(E) at 6" cts.	33 sets of 1-#6 s703(E) and 2-#6 s706(E) at 6" cts.	33 sets of 1-#6 s803(E) and 2-#6 s806(E) at 6" cts.
(6)	17 sets of 2-#6 s604(E) at 6" cts.	17 sets of 2-#6 s704(E) at 6" cts.	17 sets of 2-#6 s804(E) at 6" cts.
(7)	18 sets of 2-#6 s604(E) at 6" cts.	18 sets of 2-#6 s704(E) at 6" cts.	18 sets of 2-#6 s804(E) at 6" cts.
(8)	14-#7 hp602(E) hoops at 3" cts.	14-#7 hp702(E) hoops at 3" cts.	14-#7 hp802(E) hoops at 3" cts.
(9)	44-#7 hp602(E) hoops at 3" cts.	44-#7 hp702(E) hoops at 3" cts.	44-#7 hp802(E) hoops at 3" cts.
(10)	33-#7 hp601(E) hoops at 4" cts.	33-#7 hp701(E) hoops at 4" cts.	33-#7 hp801(E) hoops at 4" cts.
T1	2 layers of 13-#11 p601(E) or p602(E) at 7 ³ / ₈ " cts.	2 layers of 13-#11 p701(E) or p702(E) at 7 ³ / ₈ " cts.	2 layers of 13-#11 p801(E) or p802(E) at 7 ³ / ₈ " cts.
T2	14 bundles of 1-#11 p605(E) and 1-#11 p606(E) at 12" max.	14 bundles of 1-#11 p705(E) and 1-#11 p706(E) at 12" max.	14 bundles of 1-#11 p805(E) and 1-#11 p806(E) at 12" max.
B1	2 layers of 13-#11 p603(E) at 7 ³ / ₈ " cts.	2 layers of 13-#11 p703(E) at 7 ³ / ₈ " cts.	2 layers of 13-#11 p803(E) at 7 ³ / ₈ " cts.
B2	13-#7 p604(E) at 7 ³ / ₈ " cts.	13-#7 p704(E) at 7 ³ / ₈ " cts.	13-#7 p804(E) at 7 ³ / ₈ " cts.
B3	14 bundles of 1-#11 p605(E) and 1-#11 p606(E) at 12" max.	14 bundles of 1-#11 p705(E) and 1-#11 p706(E) at 12" max.	14 bundles of 1-#11 p805(E) and 1-#11 p806(E) at 12" max.
H1	10-#8 h601(E) at 7 ¹ / ₂ " cts.	10-#8 h701(E) at 7 ¹ / ₂ " cts.	10-#8 h801(E) at 7 ¹ / ₂ " cts.
H2	18-#9 h602(E) at 7" cts.	18-#9 h702(E) at 7" cts.	18-#9 h802(E) at 7" cts.
H3	13-#6 h603(E) at abt. 7 ³ / ₈ " cts.	13-#6 h703(E) at abt. 7 ³ / ₈ " cts.	13-#6 h803(E) at abt. 7 ³ / ₈ " cts.
H4	13-#6 h604(E) at abt. 7 ³ / ₈ " cts.	13-#6 h704(E) at abt. 7 ³ / ₈ " cts.	13-#6 h804(E) at abt. 7 ³ / ₈ " cts.
A1	6 sets of 1-#7 u603(E) and 1-#7 u604(E) at 10 ¹ / ₂ " cts.	6 sets of 1-#7 u703(E) and 1-#7 u704(E) at 10 ¹ / ₂ " cts.	6 sets of 1-#7 u803(E) and 1-#7 u804(E) at 10 ¹ / ₂ " cts.
A2	10-#7 u605(E) at 10 ³ / ₄ " cts.	10-#7 u705(E) at 10 ³ / ₄ " cts.	10-#7 u805(E) at 10 ³ / ₄ " cts.
U1	11-#8 u601(E) spaced with h601(E) and p601(E)	11-#8 u701(E) spaced with h701(E) and p701(E)	11-#8 u801(E) spaced with h801(E) and p801(E)
U2	20-#9 u602(E) splice with h602(E) and space with p605(E)	20-#9 u702(E) splice with h702(E) and space with p705(E)	20-#9 u802(E) splice with h802(E) and space with p805(E)
C1	22 sets of 1-#14 v601(E) and 1-#14 v602(E) (top)	22 sets of 1-#14 v701(E) and 1-#14 v702(E) (top)	22 sets of 1-#14 v801(E) and 1-#14 v802(E) (top)
C2	22 sets of 1-#14 v603(E) and 1-#14 v604(E) (top) Bundle w/ C3	22 sets of 1-#14 v703(E) and 1-#14 v704(E) (top) Bundle w/ C3	22 sets of 1-#14 v803(E) and 1-#14 v804(E) (top) Bundle w/ C3
C3	22 sets of 1-#14 v605(E) and 1-#14 v606(E) (top) Bundle w/ C2	22 sets of 1-#14 v705(E) and 1-#14 v706(E) (top) Bundle w/ C2	22 sets of 1-#14 v805(E) and 1-#14 v806(E) (top) Bundle w/ C2
C4	40-#11 v607(E) equally spaced	40-#11 v707(E) equally spaced	40-#11 v807(E) equally spaced
D1	#7 sp601(E) at 4" pitch	#7 sp701(E) at 4" pitch	#7 sp801(E) at 4" pitch
D2	#7 sp602(E) at 4" pitch	#7 sp702(E) at 4" pitch	#7 sp802(E) at 4" pitch
D3	#7 sp603(E) at 3" pitch	#7 sp703(E) at 3" pitch	#7 sp803(E) at 3" pitch
K1	15-#5 s609(E) spaced at 6" cts.	15-#5 s709(E) spaced at 6" cts.	15-#5 s809(E) spaced at 6" cts.
K2	3-#5 h605(E) spaced with n601(E)	3-#5 h705(E) spaced with n701(E)	3-#5 h805(E) spaced with n801(E)
K3	1-#5 h605(E) each face	1-#5 h705(E) each face	1-#5 h805(E) each face
K4	2-#5 h606(E) each face	2-#5 h706(E) each face	2-#5 h806(E) each face
K5	3-#5 n601(E) at 12" cts., each face	3-#5 n701(E) at 12" cts., each face	3-#5 n801(E) at 12" cts., each face
R1	#5 r601(E)	#5 r701(E)	#5 r801(E)

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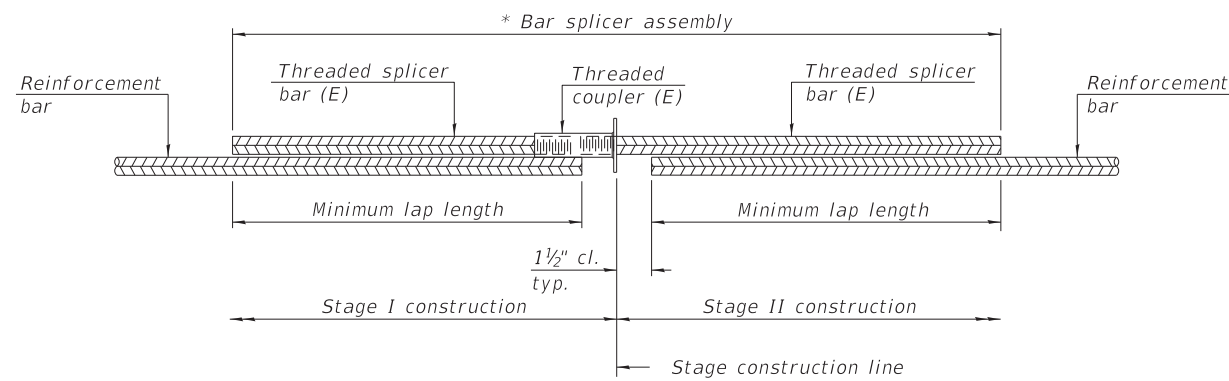
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 6 THRU 8 REINFORCEMENT TABLES - 1
STRUCTURE NO. 060-0350 (EB)

SHEET 196 OF 292 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	409
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

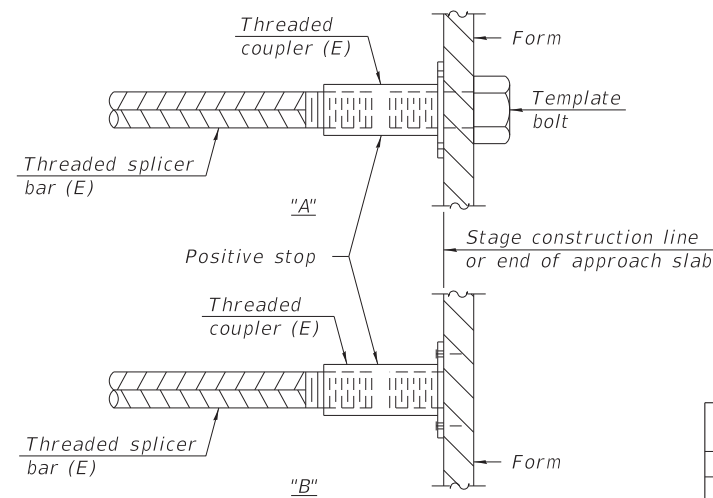


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

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

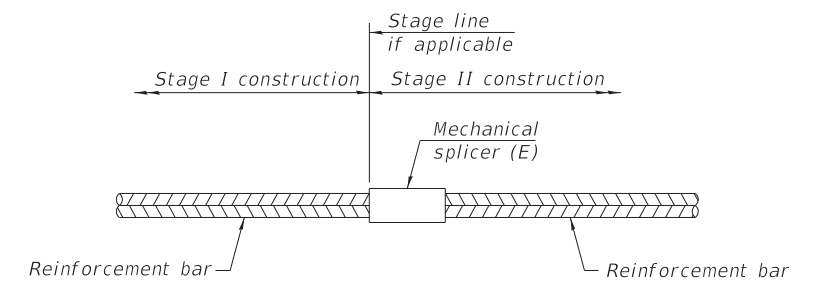


INSTALLATION AND SETTING METHODS

"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
Pier 1	#9	72
Pier 1	#11	56
Pier 1	#14	198
Pier 2	#9	72
Pier 2	#11	56
Pier 2	#14	198
Pier 3	#9	72
Pier 3	#11	56
Pier 3	#14	198
Pier 4	#9	72
Pier 4	#11	56
Pier 4	#14	198
Pier 5	#9	72
Pier 5	#14	198
Pier 6	#9	72
Pier 6	#14	198
Pier 7	#9	72
Pier 7	#14	198
Pier 8	#9	72
Pier 8	#14	198
Pier 9	#9	72
Pier 9	#14	198
Pier 10	#9	72
Pier 10	#14	198
Pier 11	#9	72
Pier 11	#14	198

Location	Bar size	No. assemblies required
Pier 12	#9	72
Pier 12	#14	198
Pier 13	#9	72
Pier 13	#14	198
Pier 14	#9	72
Pier 14	#14	198
Pier 15	#9	72
Pier 15	#14	198
Pier 16	#9	72
Pier 16	#14	198
Pier 17	#9	72
Pier 17	#14	198
Pier 18	#9	72
Pier 18	#14	264
Pier 19	#9	72
Pier 19	#14	264
Pier 20	#9	72
Pier 20	#14	264
Pier 21	#9	72
Pier 21	#14	264
Pier 22	#9	72
Pier 22	#14	264
Pier 23	#9	72
Pier 23	#14	264
Pier 24	#9	72
Pier 24	#14	264
Pier 25	#9	72
Pier 25	#14	264

2

Notes:

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

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

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 060-0350 (EB)

SHEET 248 OF 292 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	461
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A6	Sq. Yd.		5,873	5,873
Filter Fabric	Sq. Yd.		5,873	5,873
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		679	679
Floor Drains	Each	12		12
Concrete Structures	Cu. Yd.		12,739.5	12,739.5
Concrete Superstructure	Cu. Yd.	10,892.0		10,892.0
Concrete Encasement	Cu. Yd.		14.7	14.7
Protective Coat	Sq. Yd.	40,173		40,173
Concrete Superstructure (Approach Slab)	Cu. Yd.	173.5		173.5
Furnishing and Erecting Structural Steel Bridge No. 2	L Sum	1		1
Stud Shear Connectors	Each	97,340		97,340
Reinforcement Bars, Epoxy Coated	Pound	3,552,360	7,765,280	11,317,640
Mechanical Splicers	Each		7,446	7,446
Furnishing Steel Piles HP12X63	Foot		2100	2100
Furnishing Steel Piles HP12X84	Foot		1,120	1,120
Driving Piles	Foot		3220	3220
Test Pile Steel HP12X63	Each		1	1
Test Pile Steel HP12X84	Each		2	2
Pile Shoes	Each		42	42
Name Plates	Each	1		1
Permanent Casing	Foot		4,449	4,449
Drilled Shaft in Soil	Cu. Yd.		10,120	10,120
Drilled Shaft in Rock	Cu. Yd.		3,500	3,500
Preformed Joint Strip Seal	Foot	127.5		127.5
Elastomeric Bearing Assembly, Type I	Each	26		26
Elastomeric Bearing Assembly, Type III	Each	37		37
Anchor Bolts, 1 1/4"	Each	410		410
Anchor Bolts, 1 1/2"	Each	84		84
Anchor Bolts, 2"	Each	160		160
Temporary Sheet Piling	Sq. Ft.		1575	1575
Granular Backfill for Structures	Cu. Yd.		335	335
Concrete Sealer	Sq. Ft.		26,393	26,393
Geocomposite Wall Drain	Sq. Yd.		189	189
Pipe Underdrains for Structures 4"	Foot		175	175
Drainage Scuppers, DS-11	Each	81		81
Diamond Grinding (Bridge Section)	Sq. Yd.	33,174		33,174
Modular Expansion Joint 12"	Foot	66		66
Modular Expansion Joint 18"	Foot	58		58
Modular Expansion Joint 27"	Foot	116		116
Crosshole Sonic Logging Access Ducts	Foot		5,956	5,956
Crosshole Sonic Logging Testing	Each		75	75
Construction Vibration Monitoring	L Sum			0.5
Thermal Integrity Profile Testing	Each		8	8
Thermal Integrity Profile Data Collection	Foot		5,956	5,956
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	22,946		22,946
High Load Multi-Rotational Bearings, Guided Expansion - 850K	Each	24		24
High Load Multi-Rotational Bearings, Guided Expansion - 900K	Each	13		13
High Load Multi-Rotational Bearings, Fixed - 550K	Each	14		14
High Load Multi-Rotational Bearings, Fixed - 850K	Each	54		54
High Load Multi-Rotational Bearings, Fixed - 900K	Each	24		24

2

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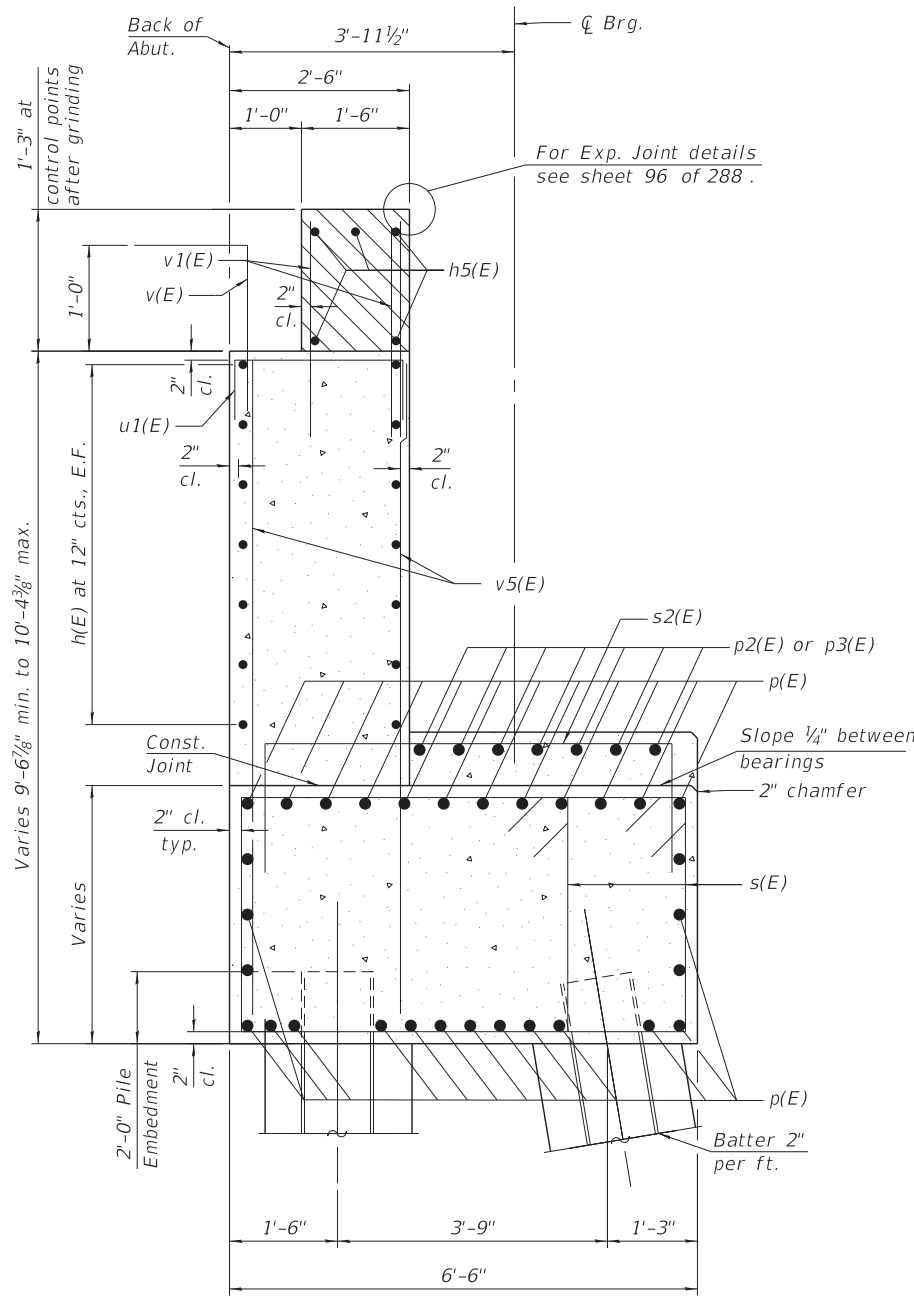


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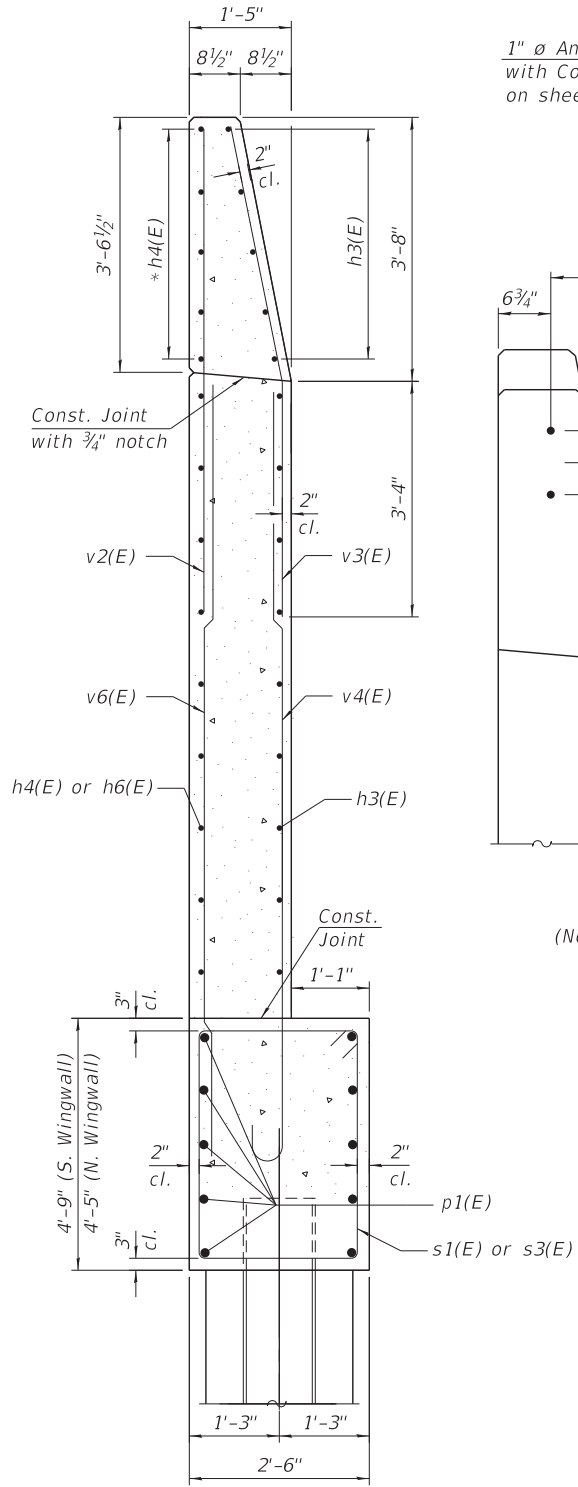
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOTAL BILL OF MATERIAL
STRUCTURE NO. 060-0351 (WB)**

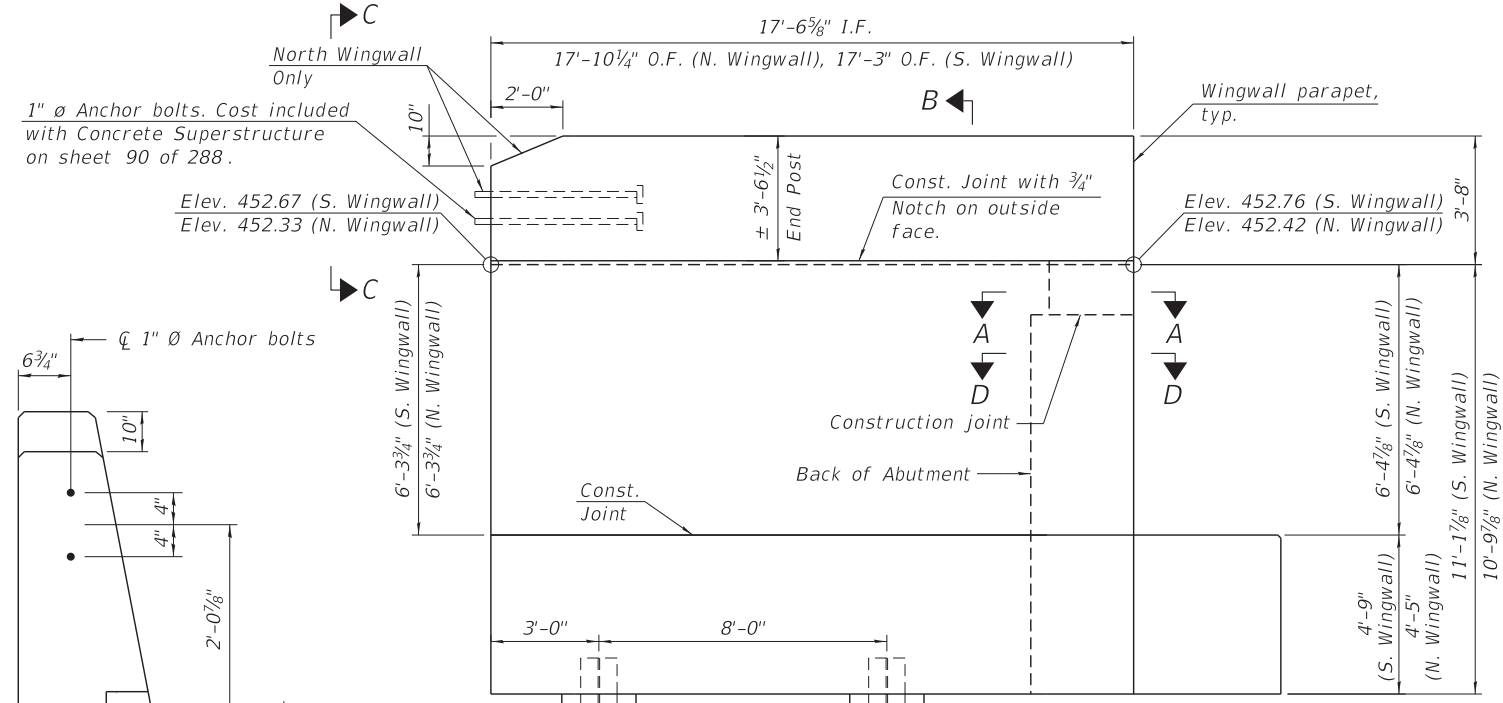
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	514
CONTRACT NO. 76190				
SHEET 9 OF 288 SHEETS				
ILLINOIS FED. AID PROJECT				



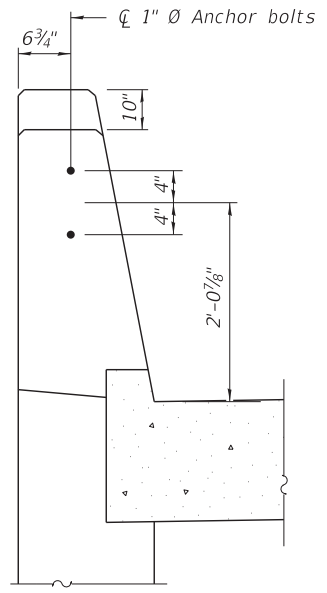
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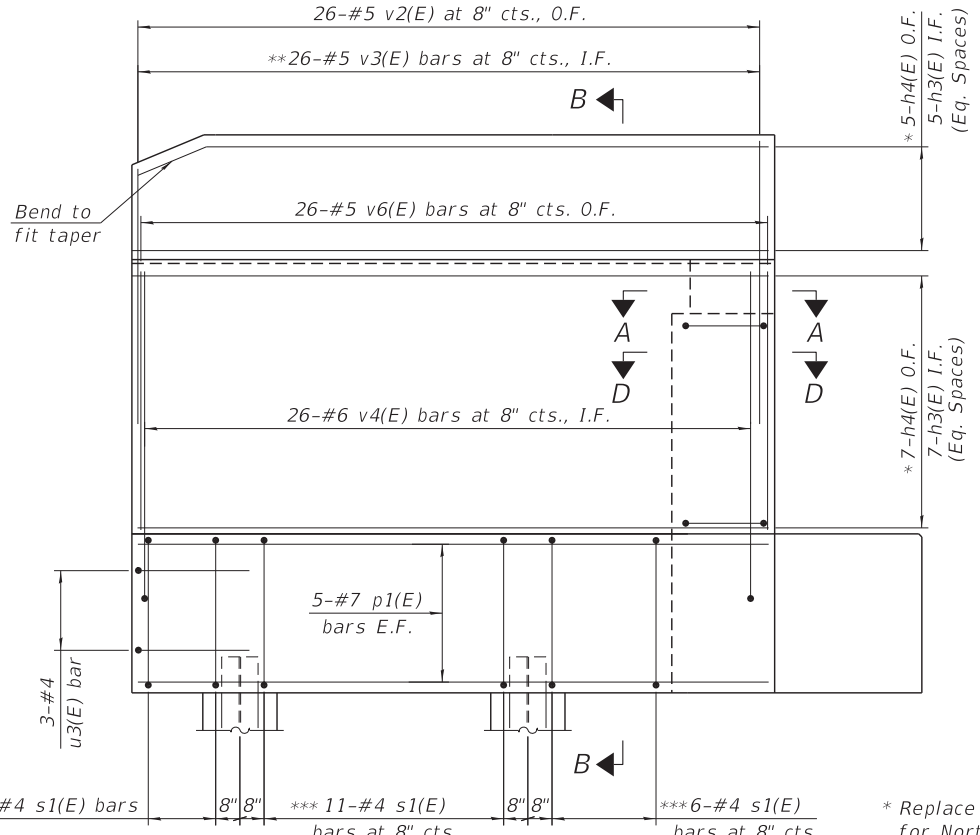
SECTION B-B



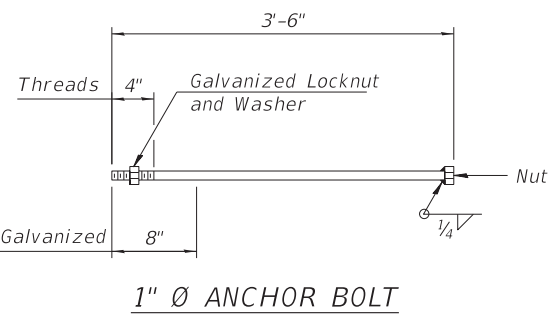
WINGWALL ELEVATION
Showing Dimensions
(South shown, North wingwall similar)



VIEW C-C
(North Wingwall Only)



WINGWALL ELEVATION
Showing Reinforcement
(South shown, North wingwall similar)



1" Ø ANCHOR BOLT

Notes:
 Hatched area to be poured after superstructure false work has been removed and after the approach slab side formwork has been removed. Quantity of concrete in wingwall parapet and hatched area included Concrete Superstructure on sheet 90 of 288.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 241 of 288.
 The top of backwall 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.
 For Section A-A and D-D, see Sheet 163 of 288.

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT WINGWALL DETAILS
 STRUCTURE NO. 060-0351 (WB)

SHEET 162 OF 288 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	667
CONTRACT NO. 76190				

* Replace h4(E) with h6(E) for North Wingwall
 ** Field cut at taper
 *** Replace s1(E) with s3(E) for North Wingwall

ILLINOIS FED. AID PROJECT

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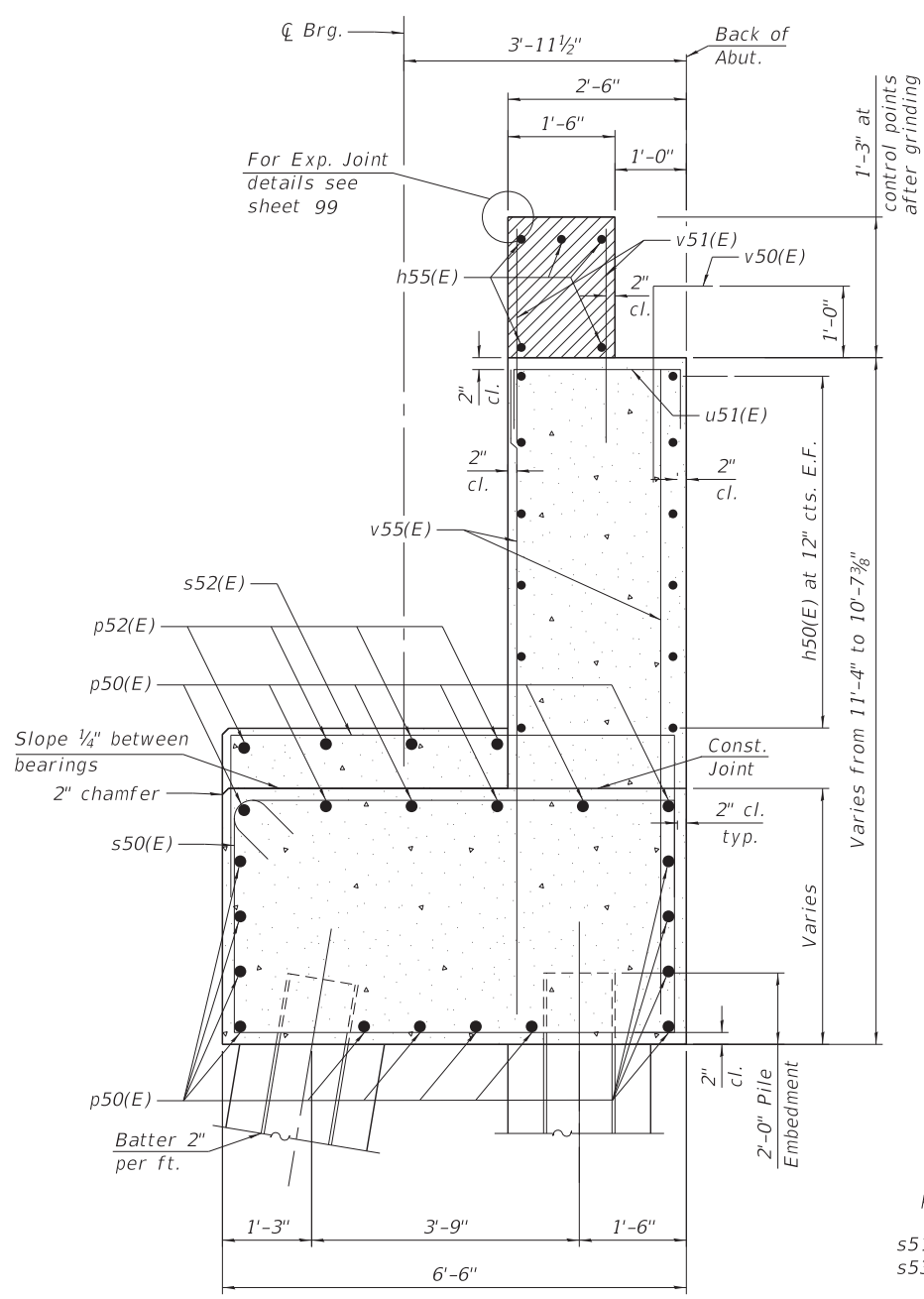
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

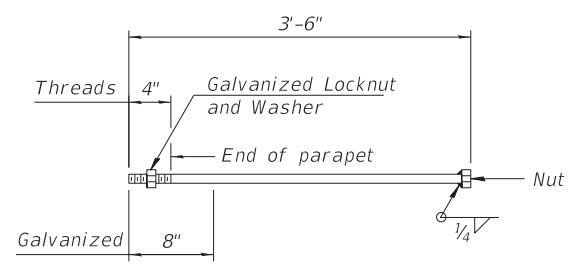
**EAST ABUTMENT WINGWALL DETAILS
 STRUCTURE NO. 060-0351 (WB)**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	670
CONTRACT NO. 76190				
ILLINOIS FED. AID PROJECT				

SHEET 165 OF 288 SHEETS

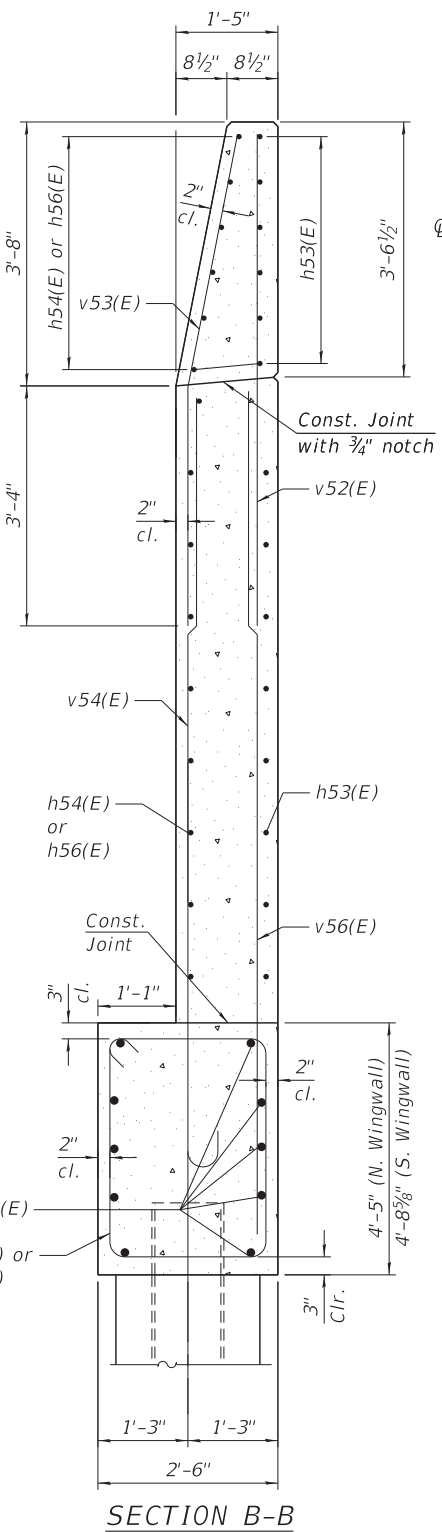


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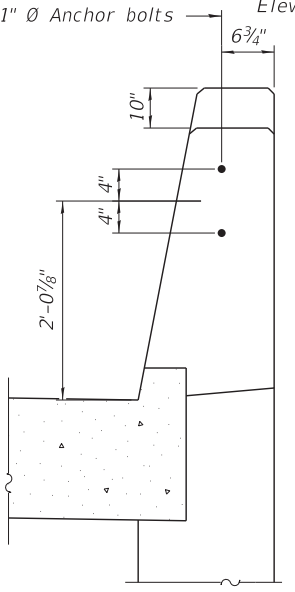


1" Ø ANCHOR BOLT
 Anchor bolt assemblies shall be according to Article 1006.09 of the Standard Specifications. Cost included with Concrete Superstructure.

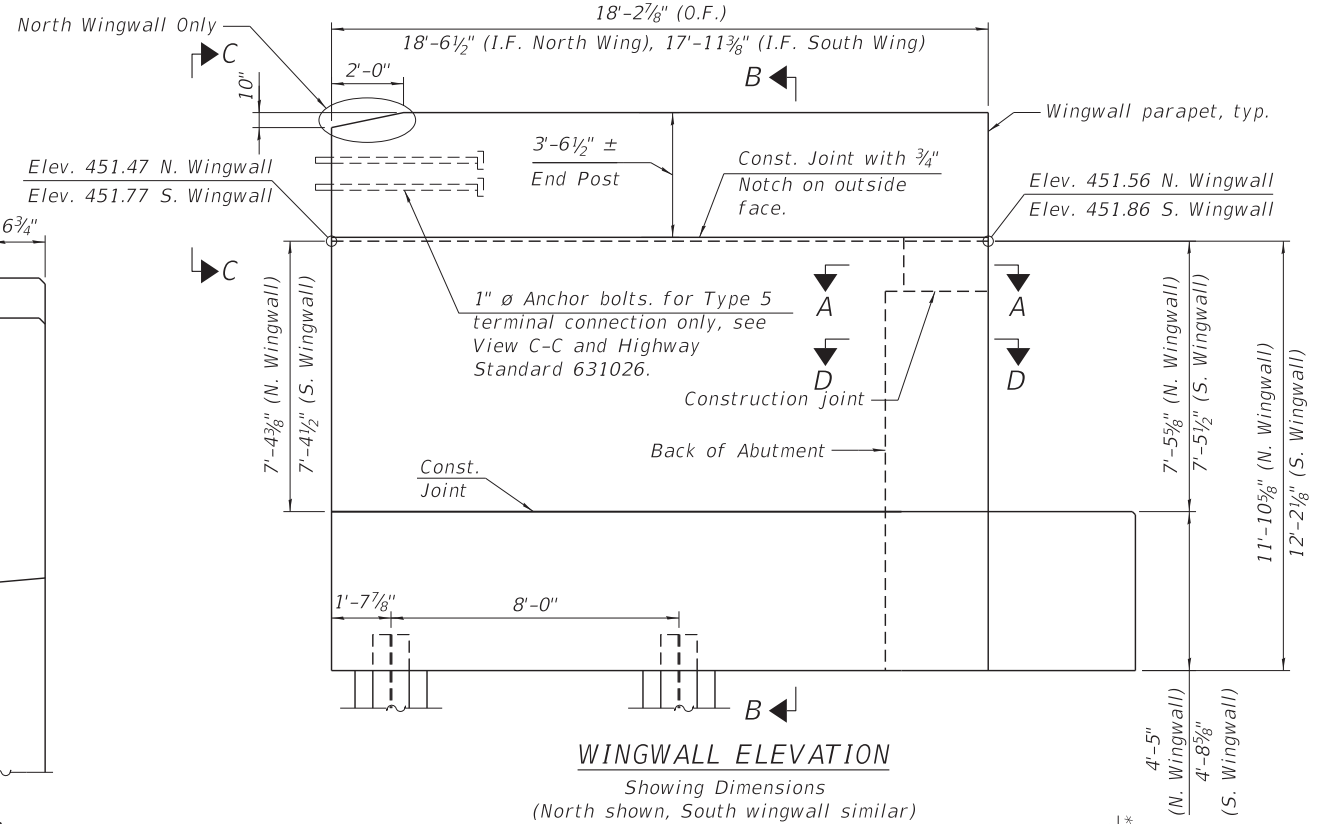
Notes:
 Hatched area to be poured after superstructure false work has been removed and after approach slab formwork has been removed.
 Quantity of concrete in wingwall parapet and hatched area included with Concrete Superstructure on sheet 91 of 288.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles and Concrete Encasement, see sheet 241 of 288.
 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.
 For Section A-A, see sheet 166 of 288.



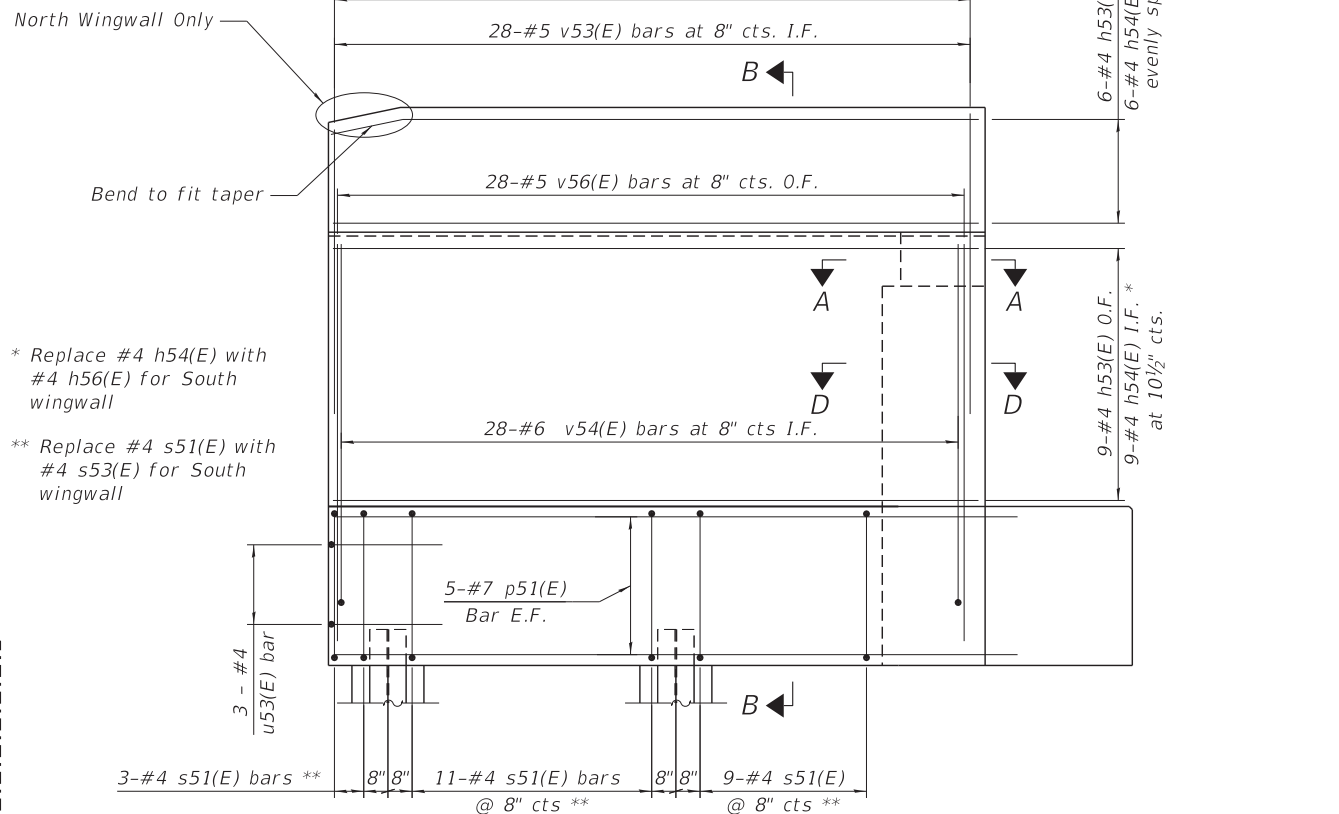
SECTION B-B



**VIEW C-C
 (North Wingwall Only)**

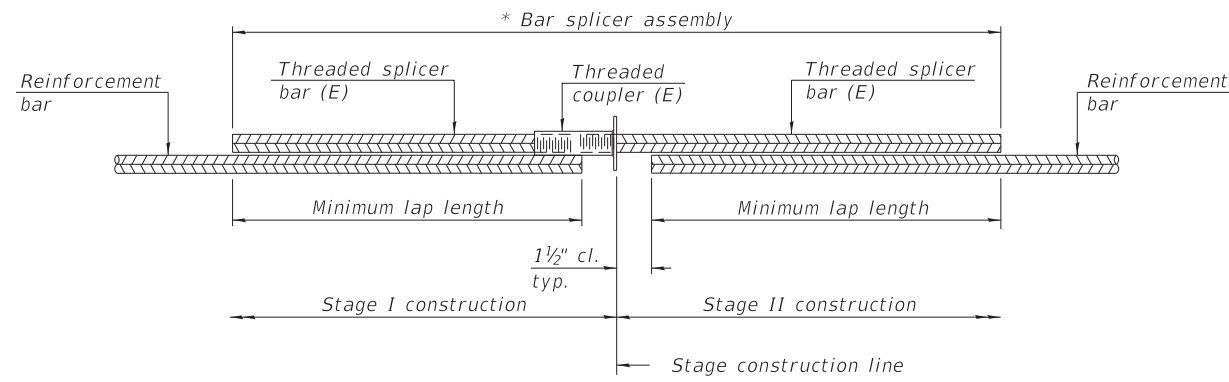


**WINGWALL ELEVATION
 Showing Dimensions
 (North shown, South wingwall similar)**



**WING WALL ELEVATION
 Showing Reinforcement
 (North shown, South wingwall similar)**

* Replace #4 h54(E) with #4 h56(E) for South wingwall
 ** Replace #4 s51(E) with #4 s53(E) for South wingwall

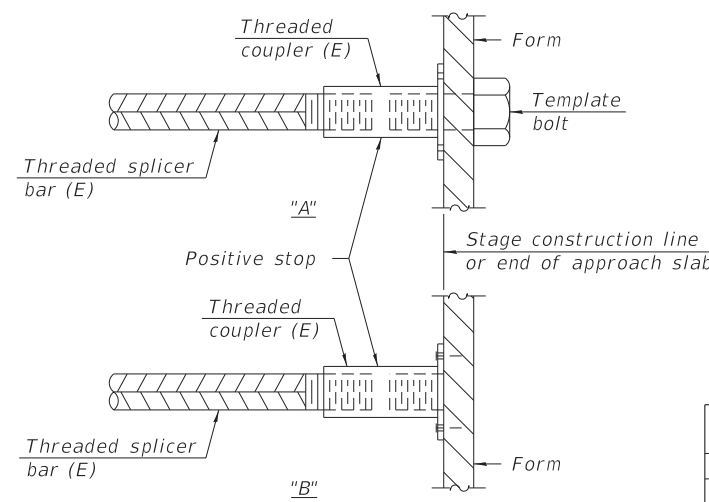


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

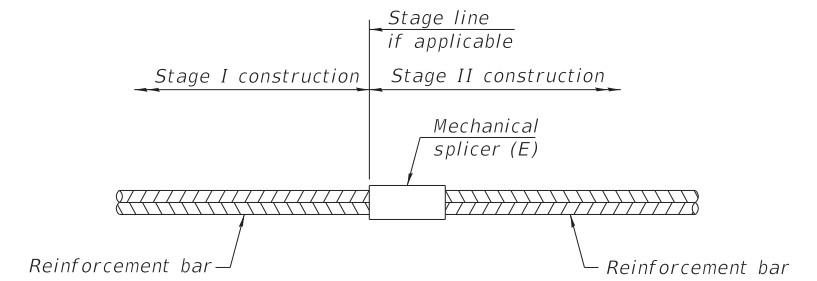


INSTALLATION AND SETTING METHODS

"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
Pier 1	#9	72
Pier 1	#11	56
Pier 1	#14	198
Pier 2	#9	72
Pier 2	#11	56
Pier 2	#14	198
Pier 3	#9	72
Pier 3	#11	56
Pier 3	#14	198
Pier 4	#9	72
Pier 4	#14	198
Pier 5	#9	72
Pier 5	#14	198
Pier 6	#9	72
Pier 6	#14	198
Pier 7	#9	72
Pier 7	#14	198
Pier 8	#9	72
Pier 8	#14	198
Pier 9	#9	72
Pier 9	#14	198
Pier 10	#9	72
Pier 10	#14	198
Pier 11	#9	72
Pier 11	#14	198

Location	Bar size	No. assemblies required
Pier 12	#9	72
Pier 12	#14	198
Pier 13	#9	72
Pier 13	#14	198
Pier 14	#9	72
Pier 14	#14	198
Pier 15	#9	72
Pier 15	#14	198
Pier 16	#9	72
Pier 16	#14	198
Pier 17	#9	72
Pier 17	#14	198
Pier 18	#9	72
Pier 18	#14	264
Pier 19	#9	72
Pier 19	#14	264
Pier 20	#9	72
Pier 20	#14	264
Pier 21	#9	72
Pier 21	#14	264
Pier 22	#9	72
Pier 22	#14	264
Pier 23	#9	72
Pier 23	#14	264
Pier 24	#9	72
Pier 24	#14	264
Pier 25	#9	72
Pier 25	#14	264

Notes:

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

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

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

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

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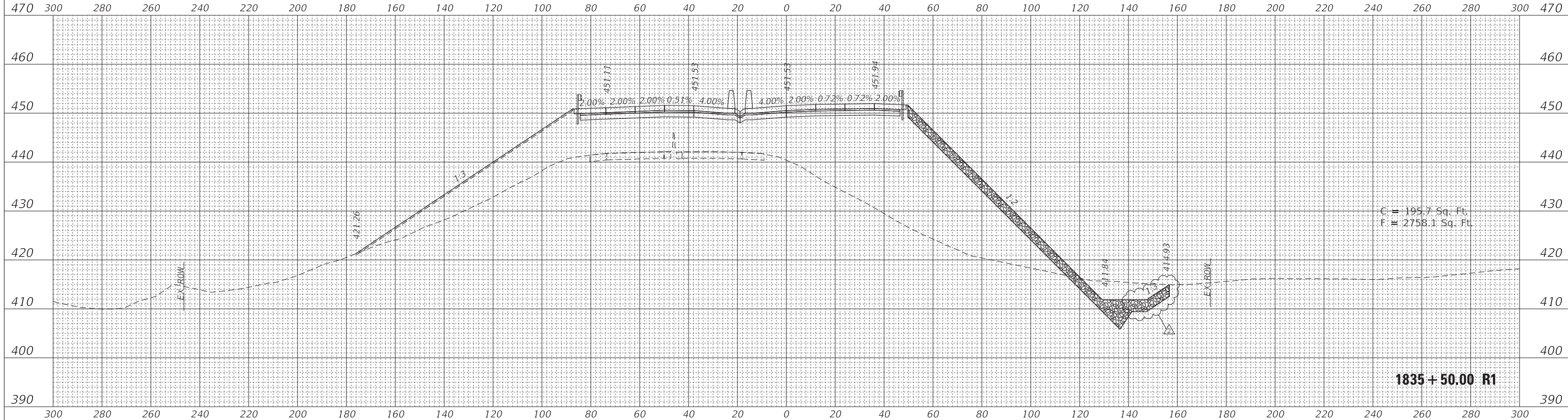
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 060-0351 (WB)

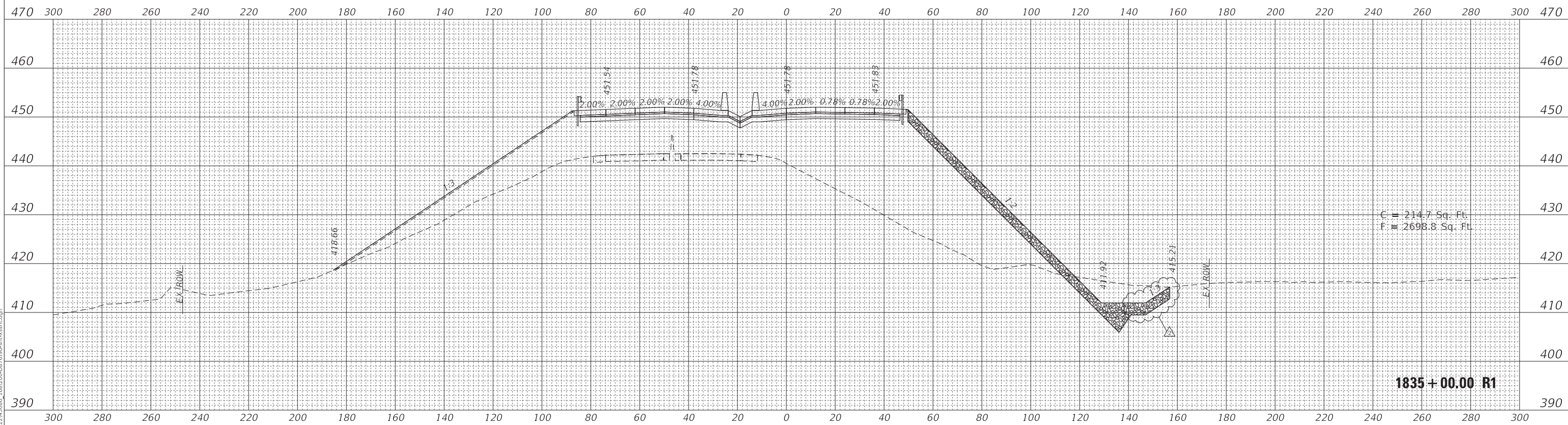
SHEET 242 OF 288 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60B-1	MADISON	875	747
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

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AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	



ORIGINAL SURVEY NO.	SURVEYED	DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

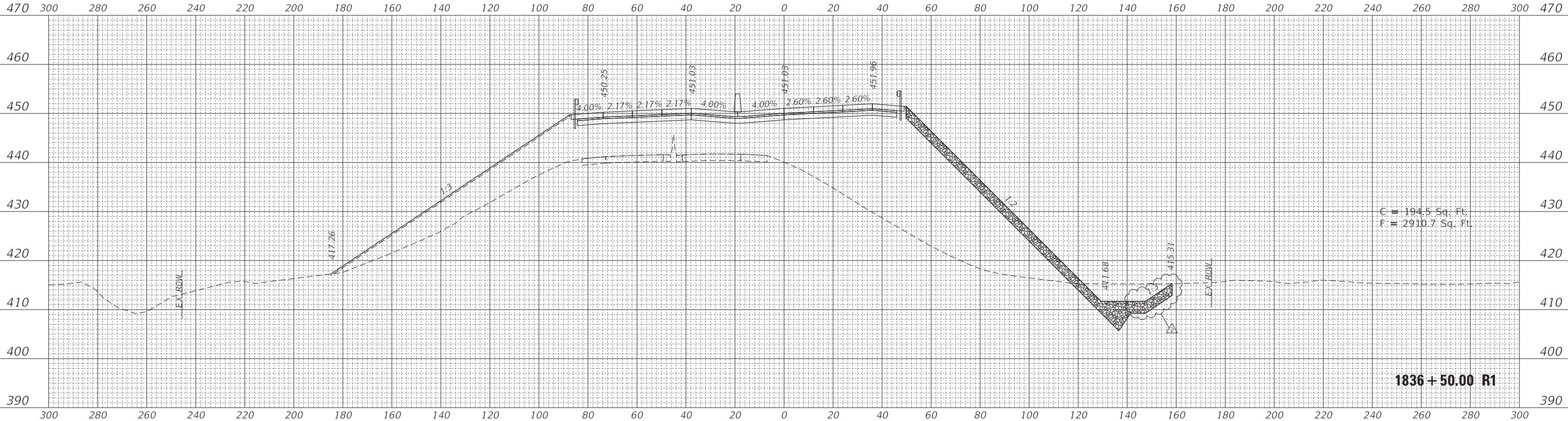
FAI-270
CROSS SECTIONS

SCALE: 1" = 20' SHEET 03 OF 76 SHEETS STA. 1835+00.00 R1 TO STA. 1835+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-270	60B-1	MADISON	875	802
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

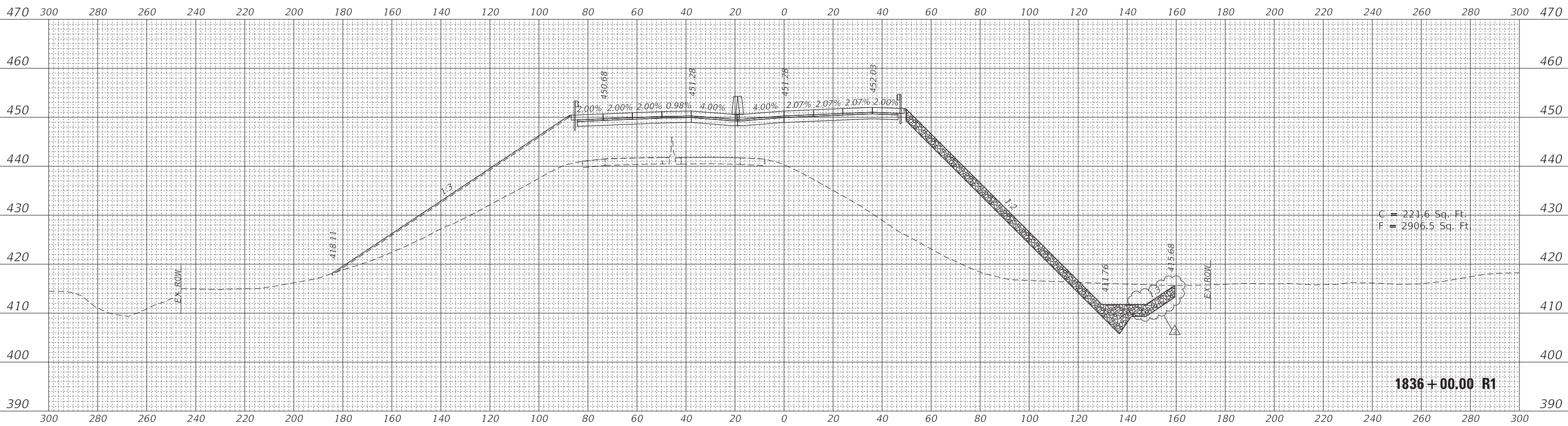
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



C = 194.5 Sq. Ft.
F = 2910.7 Sq. Ft.

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



C = 221.6 Sq. Ft.
F = 2906.5 Sq. Ft.

MODEL Copy of FAI270EB-0615
FILE NAME: C:\CSH\PD1342450B6_168200-0876\90-210xsh1.dgn



USER NAME = PWICSS
PLOT SCALE = 20.0000" / in.
PLOT DATE = 6/28/2022

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - Δ 6/28/2022 MAC
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI-270
CROSS SECTIONS

SCALE: 1" = 20' SHEET 04 OF 76 SHEETS STA. 1836+00.00 R1 TO STA. 1836+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-270	60B-1	MADISON	875	803
CONTRACT NO. 76J90				
ILLINOIS FED. AID PROJECT				

Δ 6/28/2022 MAC